The International Who's Who 1979-80

The forty-third edition of the standard source of basic biographical information about the most eminent and distinguished men and women in the world today.

THE INTERNATIONAL WHO'S WHO is widely accepted as the standard authoritative source of biographical information about the most eminent and distinguished personalities in every country in the world today.

THE INTERNATIONAL WHO'S WHO contains concise biographies of the outstanding men and women of our time. The range is wide and takes in those who have achieved distinction in international affairs, government, administration, diplomacy, science, medicine, law, finance, business, education, religion, literature, music, art, sport and entertainment.
All the essential facts are there—date of birth, nationality, education, career, present positions, honours, awards, current address.

Each new edition of THE INTERNATIONAL WHO'S WHO is the result of a year-long task of research by the Europa editorial staff. This year over four hundred new names have been included. Existing biographies have been brought up to date and revised to include the latest available information.

The forty-third edition has been completely re-set in a clear and compact style and the format is slightly larger than previous editions.

£28.00
(U.K. and Ireland market only)

S/O 2.

CITY OF COVENTRY LIBRARIES

REFERENCE BOOK

BOOKS IN THIS DEPARTMENT ARE AVAILABLE FOR CONSULTATION ON THE PREMISES ONLY

P.S.74328

COVENTRY LIBRARIES
WITHDRAWN

The International Who's Who
1979-80

THE INTERNATIONAL WHO'S WHO 1979-80

Forty-third Edition

CITY OF COVENTRY LIBRARIES



EUROPA PUBLICATIONS LIMITED
18 Bedford Square London WC1B 3JN

© EUROPA PUBLICATIONS LIMITED 1979

All rights reserved

AUSTRALIA AND NEW ZEALAND
James Bennett (Collaroy) Pty. Ltd., Collaroy, N.S.W., Australia

INDIA
UBS Publishers' Distributors Pvt. Ltd.,
P.O.B. 1882, 5 Ansari Road, Daryaganj, Delhi 6

JAPAN
Maruzen Co. Ltd., 6 Tori-Nichome, Nihonbashi, Tokyo 103

Library of Congress Catalog Card Number 35-10257

British Library Cataloguing in Publication Data
The International Who's Who
1979–80: forty-third edition
1. Biography—Periodicals
2. Biography—Dictionaries
920'.02'05 CT100 35-10257
ISBN 0-905118-36-7
ISSN 0074-9613

920.02

COVENTRY LIBRARIES 8/2/80

Printed and bound in England by Staples Printers Rochester Limited at The Stanhope Press.

FOREWORD TO THE 43rd EDITION

Each new edition of THE INTERNATIONAL WHO'S WHO is the result of a thorough revision of its predecessor. Daily records of changes to existing entries are maintained and the editors are constantly engaged in research directed towards the selection of new names. The book contains biographies of people from almost every country in the world and in almost every sphere of human activity.

Computer-aided photo-typesetting has been used in the production of this edition, which is now in a new and larger format. Over four hundred new biographies have been added and many of the existing entries have been expanded. An obituary list of persons whose deaths have been noted since the preparation of the previous edition appears at the front of the book, immediately after the section on Reigning Royal Families.

We would once again like to express our thanks to all those who, by completing questionnaires or by correcting proofs sent to them, have enabled us to bring our information up-to-date. We would particularly like to emphasize the necessity for proofs of entries to be returned to us without delay, since only in this way can we be certain that every entry is as accurate and as up-to-date as possible.

June 1979.

ABBREVIATIONS

A.A.A.	Agricultural Adjustment Administration
A.A.A.S.	American Association for the Advancement of Science
A.A.F.	Army Air Force
A.A.S.A.	Associate of the Australian Society of Accountants
A.B.	Bachelor of Arts
AB	Aktiebolag
A.C.	Companion of the Order of Australia
A.C.A.	Associate of the Institute of Chartered Accountants
A.C.C.A.	Associate of the Association of Certified Accountants
Acad.	Academy
Accad.	Accademia
Accred.	Accredited
A.C.I.S.	Associate of the Chartered Institute of Secretaries
A.C.S.	American Chemical Society
A.C.T.	Australian Capital Territory
ADC	Aide-de-camp
Adm.	Admiral
Admin.	Administrative, Administration, Administrator
A.E.R.E.	Atomic Energy Research Establishment
A.F.	Air Force
A.F.C.	Air Force Cross
affil.	affiliated
AFL	American Federation of Labor
A.F.M.	Air Force Medal
AG	Aktiengesellschaft (Joint Stock Company)
Agric.	Agriculture
a.i.	ad interim
A.I.A.	Associate of Institute of Actuaries; American Institute of Architects
A.I.A.A.	American Institute of Aeronautics and Astronautics
A.I.B.	Associate of the Institute of Bankers
AICC	All-India Congress Committee
A.I.C.E.	Associate of the Institute of Civil Engineers
A.I.Ch.E.	American Institute of Chemical Engineers
A.I.E.E.	American Institute of Electrical Engineers
A.I.M.E.	American Institute of Mining Engineers; Associate of the Institution of Mining Engineers
A.I.Mech.E.	Associate of the Institution of Mechanical Engineers
A.I.R.	All-India Radio
Akad.	Akademie
Ala.	Alabama
A.L.S.	Associate of the Linnaean Society
Alt.	Alternate
A.M.	Master of Arts; Alpes Maritimes; Albert Medal
Amb.	Ambassador
A.M.I.C.E.	Associate Member of the Institution of Civil Engineers
A.M.I.E.E.	Associate Member of the Institution of Electrical Engineers
A.M.I.Mech.E.	Associate Member of the Institution of Mechanical Engineers
A.P.	Andhra Pradesh
Apdo	Apartado
approx.	approximately
Apptd.	Appointed
A.R.A.	Associate of the Royal Academy
A.R.A.M.	Associate of the Royal Academy of Music
A.R.C.A.	Associate of the Royal College of Art
A.R.C.M.	Associate of the Royal College of Music
A.R.C.S.	Associate of the Royal College of Science
A.R.I.B.A.	Associate of the Royal Institute of British Architects
Ariz.	Arizona
Ark.	Arkansas
A.R.S.A.	Associate of the Royal Scottish Academy; Associate of the Royal Society of Arts
A.S.L.I.B.	Association of Special Libraries and Information Bureaux
A.S.M.E.	American Society of Mechanical Engineers
Asoc.	Asociación
Ass.	Assembly
Assen.	Association
Assoc.	Associate
A.S.S.R.	Autonomous Soviet Socialist Republic
Asst.	Assistant
ATV	Associated Television
Aug.	August
b.	born
B.A.	Bachelor of Arts; British Airways
B.A.A.S.	British Association for the Advancement of Science
B.Agr.	Bachelor of Agriculture
B.A.O.	Bachelor of Obstetrics
B.Arch.	Bachelor of Architecture
Bart.	Baronet
B.A.S.	Bachelor in Agricultural Science
BBC	British Broadcasting Corporation
B.C.	British Columbia
B.Ch., B.Chir.	Bachelor of Surgery
B.C.L.	Bachelor of Civil Law; Bachelor of Canon Law
B.Com(m).	Bachelor of Commerce
B.C.S.	Bachelor of Commercial Sciences
B.D.	Bachelor of Divinity
Bd.	Board
B.D.S.	Bachelor of Dental Surgery
B.E.	Bachelor of Engineering; Bachelor of Education
BEA	British European Airways
B.E.E.	Bachelor of Electrical Engineering
B.Ed.	Bachelor of Education
Beds.	Bedfordshire
B.E.M.	British Empire Medal
B.Eng.	Bachelor of Engineering
Berks.	Berkshire
B.F.A.	Bachelor of Fine Arts
BIS	Bank for International Settlements
B.L.	Bachelor of Laws
Bldg.	Building
B.Lit(t).	Bachelor of Letters
B.LL.	Bachelor of Laws
B.L.S.	Bachelor in Library Science
B.M.	Bachelor of Medicine
B.M.A.	British Medical Association
B.Mus.	Bachelor of Music
Bn.	Battalion
BNOC	British National Oil Corporation
BOAC	British Overseas Airways Corporation
Brig.	Brigadier
B.S.	Bachelor of Science; Bachelor of Surgery
B.S.A.	Bachelor of Scientific Agriculture
B.Sc.	Bachelor of Science
Bt.	Baronet
Bucks.	Buckinghamshire
c.	child, children
C.A.	Chartered Accountant
Calif.	California
Cambs.	Cambridgeshire
Cand.	Candidate, Candidature
Cantab.	Of Cambridge University
Capt.	Captain
Cards.	Cardiganshire
C.B.	Companion of the (Order of the) Bath
CBC	Canadian Broadcasting Corporation
C.B.E.	Commander of (the Order of) the British Empire
CBI	Confederation of British Industry
CBS	Columbia Broadcasting System
C.C.	Companion of Order of Canada
CCP	Chinese Communist Party
C.D.	Canadian Forces Decoration
Cdre.	Commodore
CDU	Christlich-Demokratische Union
C.E.	Civil Engineer, Chartered Engineer

ABBREVIATIONS

CEAO	Communauté Economique de l'Afrique de l'Ouest
Cen.	Central
C.Eng.	Chartered Engineer
CENTO	Central Treaty Organization
C.E.O.	Chief Executive Officer
C.E.R.N.	Conseil (*now* Organisation) Européen(ne) pour la Recherche Nucléaire
C.G.M.	Conspicuous Gallantry Medal
CGT	Confédération Général du Travail
C.H.	Companion of Honour
Chair.	Chairman
Ch.B.	Bachelor of Surgery
C.Chem.	Chartered Chemist
Chem.	Chemistry
Ch.M	Master of Surgery
C.I.	Channel Islands
CIA	Central Intelligence Agency
Cía.	Compañía (Company)
Cia.	Compagnia (Company)
CID	Criminal Investigation Department
C.I.E.	Companion of (the Order of) the Indian Empire
Cie.	Compagnie (Company)
C.I.E.E.	Companion of the Institution of Electrical Engineers
C.-in-C.	Commander-in-Chief
CIO	Congress of Industrial Organizations
C.L.D.	Doctor of Civil Law (U.S.A.)
C.Lit.	Companion of Literature
C.M.	Canada Medal; Master in Surgery
CMEA	Council for Mutual Economic Assistance
C.M.G.	Companion of (the Order of) St. Michael and St. George
C.N.R.S.	Centre National de la Recherche Scientifique
Co.	Company; County
C.O.	Commanding Officer
COI	Central Office of Information
Col.	Colonel
Coll.	College
Colo.	Colorado
COMECON	Council for Mutual Economic Assistance
Comm.	Commission
Commdg.	Commanding
Commdr.	Commander, Commandeur
Commdt.	Commandant
Commr.	Commissioner
Conf.	Conference
Confed.	Confederation
Conn.	Connecticut
Contrib.	Contributor; contribution
C.P.A.	Certified Public Accountant
Corp.	Corporate
Corpn.	Corporation
Corresp.	Correspondent; Corresponding
CP	Communist Party; Caixa Postal (Post Office Box)
CPP	Convention People's Party (Ghana)
CPPCC	Chinese People's Political Consultative Conference
CPSU	Communist Party of the Soviet Union
cr.	created
C.Sc.	Candidate of Sciences
CSCE	Conference on Security and Co-operation in Europe
C.S.I.	Companion of (the Order of) the Star of India
CSIRO	Commonwealth Scientific and Industrial Research Organization
C.S.S.R.	Czechoslovak Socialist Republic
C.St.J.	Commander of (the Order of) St. John of Jerusalem
Cttee.	Committee
C.V.	Commanditaire Vennootschap
C.V.O.	Commander of the Royal Victorian Order
d.	daughter(s)
D.Arch	Doctor of Architecture
D.B.	Bachelor of Divinity
D.B.A.	Doctor of Business Administration
D.B.E.	Dame Commander of (the Order of) the British Empire
D.C.	District of Columbia
D.C.L.	Doctor of Civil Law
D.C.M.	Distinguished Conduct Medal
D.C.M.G.	Dame Commander of (the Order of) St. Michael and St. George
D.Cn.L.	Doctor of Canon Law
D.Comm.	Doctor of Commerce
D.C.S.	Doctor of Commercial Sciences
D.C.T.	Doctor of Christian Theology
D.C.V.O.	Dame Commander of the Royal Victorian Order
D.D.	Doctor of Divinity
D.D.R.	Deutsche Demokratische Republik (German Democratic Republic)
D.D.S.	Doctor of Dental Surgery
Dec.	December
D.Econ.	Doctor of Economics
Denbighs.	Denbighshire
D. en D.	Docteur en Droit
D. en Med.	Docteur en Medicine
D.Eng.	Doctor of Engineering
Del.	Delegate, delegation, Delaware
Dept.	Department
D. ès L.	Docteur ès Lettres
D. ès Sc.	Docteur ès Sciences
Devt.	Development
D.F.	Distrito Federal
D.F.A.	Doctor of Fine Arts
D.F.C.	Distinguished Flying Cross
D.F.M.	Distinguished Flying Medal
D.H.	Doctor of Humanities
D.H.L.	Doctor of Hebrew Literature
D.Hum.Litt.	Doctor of Humane Letters
D.I.C.	Diploma of Imperial College
D.K.	Most Esteemed Family (Malaysia)
Dip.Agr.	Diploma in Agriculture
Dip.Ed.	Diploma in Education
Dip(l).Eng.	Diploma in Engineering
Dir.	Director
Dist.	District
D.Iur.	Doctor of Law
D. Iur. Utr.	Doctor of both Civil and Canon Law
Div.	Division; Divisional
D.Jur.	Doctor of Law
D.L.	Deputy Lieutenant
D.Lit(t).	Doctor of Letters; Doctor of Literature
D.L.S.	Doctor of Library Science
D.M.	Doctor of Medicine (Oxford)
D.M.D.	Doctor of Dental Medicine
D.M.S.	Director of Medical Services
D.Mus.	Doctor of Music
D.M.V.	Doctor of Veterinary Medicine
D.O.	Doctor of Ophthalmology
D.P.H.	Diploma in Public Health
D.P.M.	Diploma in Psychological Medicine
D.Phil.	Doctor of Philosophy
Dr. Agr.	Doctor of Agriculture
Dr.Ing.	Doctor of Engineering
Dr.Iur.	Doctor of Laws
D(r).Med.	Doctor of Medicine
Dr.Oec.(Publ.)	Doctor of (Public) Economy
Dr.rer.nat.	Doctor of Natural Sciences
Dr.rer.pol.	Doctor of Political Science
Dr.SC.	Doctor of Sciences
D.S.	Doctor of Science
D.S.C.	Distinguished Service Cross
D.Sc.	Doctor of Science
D.Sc.S.	Doctor of Social Science
D.S.M.	Distinguished Service Medal
D.S.O.	Companion of the Distinguished Service Order
D.S.T.	Doctor of Sacred Theology
D.Theol.	Doctor of Theology
D.T.M.(& H.)	Diploma in Tropical Medicine (and Hygiene)
D.U.P.	Diploma of the University of Paris
E.	East
ECA	Economic Co-operation Administration; Economic Commission for Africa
ECAFE	Economic Commission for Asia and the Far East
ECE	Economic Commission for Europe
ECLA	Economic Commission for Latin America
Econ(s)	Economic(s)
ECOSOC	Economic and Social Council
ECSC	European Coal and Steel Community
ECWA	Economic Commission for Western Asia
ed.	educated
Ed.D.	Doctor of Education

Ed.M.	Master of Education
E.D.	Efficiency Decoration; Doctor of Engineering (U.S.A.)
Ed.	Editor
Edin.	Edinburgh
Edn.	Edition
Educ.	Education
EEC	European Economic Community
EFTA	European Free Trade Association
e.h.	Ehrenhalben (Honorary)
EIB	European Investment Bank
E.M.	Edward Medal; Master of Engineering (U.S.A.)
Emer.	Emeritus
Eng.	Engineering
Eng.D.	Doctor of Engineering
ESCAP	Economic and Social Commission for Asia and the Pacific
est.	established
ETH	Eidgenössische Technische Hochschule (Swiss Federal Institute of Technology)
Ets.	Etablissements
EURATOM	European Atomic Energy Community
Exec.	Executive
Exhbn.	Exhibition
Ext.	Extension
f.	founded
F.A.A.	Fellow of Australian Academy of Science
F.A.C.C.	Fellow of the American College of Cardiology
F.A.C.C.A.	Fellow of the Association of Certified and Corporate Accountants
F.A.C.E.	Fellow of the Australian College of Education
F.A.C.P.	Fellow of American College of Physicians
F.A.C.S.	Fellow of the American College of Surgeons
F.A.I.A.	Fellow of the American Institute of Architects
F.A.I.A.S.	Fellow of the Australian Institute of Agricultural Science
F.A.I.M.	Fellow of the Australian Institute of Management
FAO	Food and Agriculture Organization
F.A.S.E.	Fellow of Antiquarian Society, Edinburgh
F.B.A.	Fellow of the British Academy
FBI	Federal Bureau of Investigation
F.B.I.M.	Fellow of the British Institute of Management
F.C.A.	Fellow of the Institute of Chartered Accountants
F.C.G.I.	Fellow of the City and Guilds of London Institute
F.C.I.C.	Fellow of the Chemical Institute of Canada
F.C.I.S.	Fellow of the Chartered Institute of Secretaries
FCO	Foreign and Commonwealth Office
F.C.T.	Federal Capital Territory
F.C.W.A.	Fellow of the Institute of Cost and Works Accountants
FDGB	Freier Deutscher Gewerkschaftsbund
FDP	Freier Demokratische Partei
Feb.	February
Fed.	Federation; Federal
F.G.S.	Fellow of the Geological Society
F.G.S.M.	Fellow of the Guildhall School of Music
F.I.A.	Fellow of the Institute of Actuaries
F.I.A.L.	Fellow of the International Institute of Arts and Letters
F.I.A.M.	Fellow of the International Academy of Management
F.I.A.M.S.	Fellow of the Indian Academy of Medical Sciences
F.I.Arb.	Fellow of the Institute of Arbitrators
F.I.B.	Fellow of the Institute of Bankers
F.I.B.A.	Fellow of the Institute of Banking Associations
F.I.C.E.	Fellow of the Institution of Civil Engineers
F.I.D.	Fellow of the Institute of Directors
F.I.E.	Fellow of the Institute of Engineers
F.I.E.E.	Fellow of the Institution of Electrical Engineers
F.I.E.E.E.	Fellow of the Institute of Electrical and Electronics Engineers
F.I.J.	Fellow of the Institute of Journalists
Fil.Lic.	Licentiate in Philosophy
F.I.M.	Fellow of the Institute of Metallurgists
F.I.Mech.E.	Fellow of the Institute of Mechanical Engineers
F.I.M.I.	Fellow of the Institute of the Motor Industry
F.Inst.F.	Fellow of the Institute of Fuel
F.Inst.P.	Fellow of the Institute of Physics
F.Inst.Pet.	Fellow of the Institute of Petroleum
F.I.P.M.	Fellow of the Institute of Personnel Management
F.I.R.E.	Fellow of the Institution of Radio Engineers
Fla.	Florida
F.L.A.	Fellow of the Library Association
Flints.	Flintshire
FLN	Front de Libération Nationale
F.L.S.	Fellow of the Linnaean Society
fmr.	former
fmrly.	formerly
F.N.I.	Fellow of the National Institute of Sciences of India
F.N.Z.I.A.	Fellow of the New Zealand Institute of Architects
F.R.A.C.P.	Fellow of the Royal Australasian College of Physicians
F.R.A.C.S.	Fellow of the Royal Australasian College of Surgeons
F.R.A.I.	Fellow of the Royal Anthropological Institute
F.R.A.I.A.	Fellow of the Royal Institute of Architects
F.R.A.I.C.	Fellow of the Royal Architectural Institute of Canada
F.R.A.M.	Fellow of the Royal Academy of Music
F.R.A.S.	Fellow of the Royal Astronomical Society; Fellow of the Royal Asiatic Society
F.R.Ae.S.	Fellow of the Royal Aeronautical Society
F.R.B.S.	Fellow of the Royal Society of British Sculptors
F.R.C.M.	Fellow of the Royal College of Music
F.R.C.O.	Fellow of the Royal College of Organists
F.R.C.O.G.	Fellow of the Royal College of Obstetricians and Gynaecologists
F.R.C.P.(E.)	Fellow of the Royal College of Physicians (Edinburgh)
F.R.C.S.(E.)	Fellow of the Royal College of Surgeons (Edinburgh)
F.R.Econ.S.	Fellow of the Royal Economic Society
F.R.E.S.	Fellow of the Royal Entomological Society
F.R.F.P.S.	Fellow of the Royal Faculty of Physicians and Surgeons
F.R.G.S.	Fellow of the Royal Geographical Society
F.R.Hist.S.	Fellow of the Royal Historical Society
F.R.Hort.S.	Fellow of the Royal Horticultural Society
F.R.I.B.A.	Fellow of the Royal Institute of British Architects
F.R.I.C.	Fellow of the Royal Institute of Chemistry
F.R.I.C.S.	Fellow of the Royal Institute of Chartered Surveyors
F.R.Met.Soc.	Fellow of the Royal Meteorological Society
F.R.P.S.	Fellow of the Royal Photographic Society
F.R.S.	Fellow of the Royal Society
F.R.S.A.	Fellow of the Royal Society of Arts
F.R.S.A.M.D.	Fellow of the Royal Scottish Academy of Music and Drama
F.R.S.C.	Fellow of the Royal Society of Canada
F.R.S.E.	Fellow of the Royal Society of Edinburgh
F.R.S.L.	Fellow of the Royal Society of Literature
F.R.S.M.	Fellow of the Royal Society of Medicine
F.R.S.S.	Fellow of the Royal Statistical Society
F.S.A.	Fellow of the Society of Antiquaries
F.S.I.A.D.	Fellow of the Society of Industrial Artists and Designers
F.T.I.	Fellow of the Textile Institute
F.T.S.	Fellow of Technological Sciences
F.Z.S.	Fellow of the Zoological Society
Ga.	Georgia
GATT	General Agreement on Tariffs and Trade
G.B.	Great Britain
G.B.E.	Knight (or Dame) Grand Cross of (the Order of) the British Empire
G.C.	George Cross
G.C.B.	Knight Grand Cross of (the Order of) the Bath
G.C.I.E.	Knight Grand Commander of (the Order of) the Indian Empire
G.C.M.G.	Knight (or Dame) Grand Cross of (the Order of) St. Michael and St. George
G.C.S.I.	Knight Grand Commander of (the Order of) the Star of India
G.C.V.O.	Knight (or Dame) Grand Cross of the Royal Victorian Order
G.D.R.	German Democratic Republic
Gen.	General
GHQ	General Headquarters
Glam.	Glamorganshire

GLC	Greater London Council
Glos.	Gloucestershire
G.M.	George Medal
GmbH	Gesellschaft mit beschränkter Haftung (Limited Liability Company)
G.O.C. (in C)	General Officer Commanding (in Chief)
Gov.	Governor
Govt.	Government
GPO	General Post Office
G.R.S.M.	Graduate of the Royal School of Music
G.S.O.	General Staff Officer
Hants.	Hampshire
h.c.	honoris causa
H.E.	His Eminence; His (or Her) Excellency
Herefords.	Herefordshire
Herts.	Hertfordshire
H.H.	His (or Her) Highness
H.L.D.	Doctor of Humane Letters
H.M.	His (or Her) Majesty
H.M.S.	His (or Her) Majesty's Ship
Hon.	Honourable; Honorary
Hons.	Honours
Hosp.	Hospital
HQ	Headquarters
H.R.P.	His (or Her) Royal Highness
HSWP	Hungarian Socialist Workers' Party
Hunts.	Huntingdonshire
Ia.	Iowa
IAEA	International Atomic Energy Agency
IATA	International Air Transport Association
IBA	Independent Broadcasting Authority
IBRD	International Bank for Reconstruction and Development (World Bank)
ICAO	International Civil Aviation Organization
ICC	International Chamber of Commerce
ICE	Institution of Civil Engineers
ICEM	Intergovernmental Committee for European Migration
ICFTU	International Confederation of Free Trade Unions
ICI	Imperial Chemical Industries
ICOM	International Council of Museums
ICS	Indian Civil Service
ICSID	International Centre for Settlement of Investment Disputes
Ida.	Idaho
IDA	International Development Association
IDB	Inter-American Development Bank
I.E.E.	Institution of Electrical Engineers
IFC	International Finance Corporation
Ill.	Illinois
ILO	International Labour Organisation
IMCO	Inter-Governmental Maritime Consultative Organization
I.Mech.E.	Institution of Mechanical Engineers
IMF	International Monetary Fund
Inc.	Incorporated
Ind.	Indiana; Independent
Insp.	Inspector
Inst.	Institute; Institution
Int.	International
INTUC	Indian National Trades Union Congress
IPU	Inter-Parliamentary Union
I.S.O.	Companion of the Imperial Service Order
ITA	Independent Television Authority
ITU	International Telecommunications Union
ITV	Independent Television
IUPAC	International Union of Pure and Applied Chemistry
IUPAP	International Union of Pure and Applied Physics
Jan.	January
J.C.B.	Bachelor of Canon Law
J.C.D.	Doctor of Canon Law
J.D.	Doctor of Jurisprudence
J.P.	Justice of the Peace
Jr.	Junior
Jt.	Joint
J.U.D.	Juris utriusque Doctor (Doctor of both Civil and Canon Law)
Ju.D.	Doctor of Law
J.U.Dr.	Juris utriusque Doctor (Doctor of both Civil and Canon Law), Doctor of Law
Kan.	Kansas
K.B.E.	Knight Commander of (the Order of) the British Empire
K.C.	King's Counsel
K.C.B.	Knight Commander of (the Order of) the Bath
K.C.I.E.	Knight Commander of (the Order of) the Indian Empire
K.C.M.G.	Knight Commander of (the Order of) St. Michael and St. George
K.C.S.I.	Knight Commander of (the Order of) the Star of India
K.C.V.O.	Knight Commander of the Royal Victorian Order
K.G.	Knight of (the Order of) the Garter
KGB	Committee of State Security (U.S.S.R.)
KLM	Koninklijke Luchtvaart Maatschappij (Royal Dutch Airlines)
K.P.	Knight of (the Order of) St. Patrick
K.St.J.	Knight of (the Order of) St. John of Jerusalem
K.T.	Knight of (the Order of) the Thistle
Kt.	Knight
Ky.	Kentucky
La.	Louisiana
L.A.	Los Angeles
Lab.	Laboratory
Lancs.	Lancashire
L.D.S.	Licentiate in Dental Surgery
Legis.	Legislative
Leics.	Leicestershire
L. en D.	Licencié en Droit
L. ès L.	Licencié ès Lettres
L.H.D.	Doctor of Humane Letters
L.I.	Long Island
Lic. en Der.	Licenciado en Derecho
Lic. en Fil.	Licenciado en Filosofía
Lic.Med.	Licentiate in Medicine
Lieut.	Lieutenant
Lincs.	Lincolnshire
Litt.D.	Doctor of Letters
LL.B.	Bachelor of Laws
LL.D.	Doctor of Laws
LL.L.	Licentiate of Laws
LL.M.	Master of Laws
L.M.	Licentiate of Medicine; or Midwifery
L.N.	League of Nations
L.R.A.M.	Licentiate of the Royal Academy of Music
L.R.C.P.	Licentiate of the Royal College of Physicians
L.S.E.	London School of Economics
Ltd(a).	Limited; Limitada
L.TH.	Licentiate in Theology
m.	married; marriage
M.A.	Master of Arts
M.Agr.	Master of Agriculture (U.S.A.)
Maj.	Major
Man.	Manager, Managing, Management; Manitoba
M.Arch.	Master of Architecture
Mass.	Massachusetts
Math.	Mathematics, Mathematical
M.B.	Bachelor of Medicine
M.B.A.	Master of Business Administration
M.B.E.	Member of (the Order of) the British Empire
M.C.	Military Cross
M.C.E.	Master of Civil Engineering
MCC	Marylebone Cricket Club
M.Ch.	Master of Surgery
M.Ch.D.	Master of Dental Surgery
M.C.L.	Master of Civil Law
M.Com(m).	Master of Commerce
Md.	Maryland
M.D.	Doctor of Medicine
M.Div.	Master of Divinity
M.D.S.	Master of Dental Surgery
Me.	Maine
m.	member
M.Eng.	Master of Engineering (Dublin)
M.F.A.	Master of Fine Arts
Mfg.	Manufacturing
Mfrs.	Manufacturers

Mgr.	Monseigneur; Monsignor
M.I.	Marshall Islands
M.I.A.	Master of International Affairs
M.I.C.E.	Member of the Institution of Civil Engineers
M.I.Chem.E.	Member of the Institution of Chemical Engineers
Mich.	Michigan
Middx.	Middlesex
M.I.E.E.	Member of the Institution of Electrical Engineers
Mil.	Military
M.I.Mar.E.	Member of the Institute of Marine Engineers
M.I.Mech.E.	Member of the Institution of Mechanical Engineers
M.I.Min.E.	Member of the Institution of Mining Engineers
Minn.	Minnesota
M.Inst.T.	Member of the Institute of Transport
Miss.	Mississippi
M.I.Struct.E.	Member of the Institution of Structural Engineers
M.I.T.	Massachusetts Institute of Technology
M.J.	Master of Jurisprudence
M.L.A.	Member of the Legislative Assembly
M.L.C.	Member of the Legislative Council
M.M.	Military Medal
Mo.	Missouri
M.O.H.	Medical Officer of Health
Mon.	Monmouthshire
Mont.	Montana
M.P.	Member of Parliament; Madhya Pradesh (India)
M.P.A.	Master of Public Administration (Harvard)
M.Ph.	Master of Philosophy (U.S.A.)
M.P.P.	Member of Provincial Parliament (Canada)
M.R.A.S.	Member of the Royal Asiatic Society
MRC	Medical Research Council
M.R.C.P.(E.)	Member of the Royal College of Physicians (Edinburgh)
M.R.C.S.(E.)	Member of the Royal College of Surgeons (Edinburgh)
M.R.C.V.S.	Member of the Royal College of Veterinary Surgeons
M.R.I.	Member of the Royal Institution
M.R.I.A.	Member of the Royal Irish Academy
M.R.I.C.	Member of the Royal Institute of Chemistry
MRP	Mouvement Républicain Populaire
M.S.	Master of Science; Master of Surgery
M.Sc.	Master of Science
MU.Dr.	Doctor of Medicine
Mus.Bac. or B.	Bachelor of Music
Mus.Doc. or D.	Doctor of Music
Mus.M.	Master of Music (Cambridge)
M.V.D.	Master of Veterinary Medicine
M.V.O.	Member of the Royal Victorial Order
N.	North
N.A.S.	National Academy of Sciences (U.S.A.)
NASA	National Aeronautical and Space Administration
Nat.	National
NATO	North Atlantic Treaty Organization
Naz.	Nazionale
N.B.	New Brunswick
NBC	National Broadcasting Corporation
N.C.	North Carolina
N.D.	North Dakota
N.E.	North East, Near East
Neb.	Nebraska
NEDC	National Economic Development Council
Nev.	Nevada
N.H.	New Hampshire
N.J.	New Jersey
N.M.	New Mexico
Northants.	Northamptonshire
Notts.	Nottinghamshire
Nov.	November
NPC	National People's Congress
nr.	near
NRC	Nuclear Research Council
N.S.	Nova Scotia
N.S.W.	New South Wales
NV	Naamloze Vennootschap
N.W.	North West
N.W.T.	North West Territories
N.Y.	New York
N.Y.C.	New York City
N.Z.	New Zealand
OAS	Organization of American States
OAU	Organization of African Unity
O.B.E.	Officer of (the Order of) the British Empire
O.C.	Officer of the Order of Canada
Oct.	October
OECD	Organization for Economic Co-operation and Development
OEEC	Organization for European Economic Co-operation
O.F.S.	Orange Free State
Okla.	Oklahoma
O.M.	Member of the Order of Merit
Ont.	Ontario
O.P.	Ordo Praedicatorum (Dominicans)
OPEC	Organization of the Petroleum Exporting Countries
O.P.M.	Office of Production Management
Ore.	Oregon
Org.	Organization
O.S.B.	Order of St. Benedict
Oxon.	Of Oxford University; Oxfordshire
Pa.	Pennsylvania
Parl.	Parliament; Parliamentary
P.C.	Privy Councillor
PCC	Provincial Congress Committee
Pd.B	Bachelor of Pedagogy
Pd.D.	Doctor of Pedagogy
Pd.M.	Master of Pedagogy
P.E.I.	Prince Edward Island
Pembs.	Pembrokeshire
PEN	Poets, Playwright, Essayists, Editors and Novelists (Club)
Perm.	Permanent
Ph.B.	Bachelor of Philosophy
Ph.D.	Doctor of Philosophy
PH.Dr.	Doctor of Philosophy
Pharm.D.	Docteur en Pharmacie
Phila.	Philadelphia
PLA	People's Liberation Army; Port of London Authority
P.O.(B.)	Post Office (Box)
P.O.W.	Prisoner of War
P.P.R.A.	Past President of the Royal Academy
P.Q.	Province of Quebec
P.R.A.	President of the Royal Academy
Pref.	Prefecture
Prep.	Preparatory
Pres.	President
P.R.I.	President of the Royal Institute (of Painters in Water Colours)
P.R.I.B.A.	President of the Royal Institute of British Architects
Prin.	Principal
Priv. Doz.	Privat Dozent (recognized teacher not on the regular staff)
P.R.O.	Public Relations Officer
Proc.	Proceedings
Prof.	Professor
Propr.	Proprietor
Prov.	Province, Provincial
P.R.S.	President of the Royal Society
P.R.S.A.	President of the Royal Scottish Academy
Pty.	Proprietary
Publ(s).	Publication(s)
Publr.	Publisher
PUWP	Polish United Workers' Party
Pvt.	Private
PWP	Polish Workers' Party
Q.C.	Queen's Counsel
q.v.	quod vide (which see)
R.A.	Royal Academy; Royal Academician; Royal Artillery
R.A.A.F.	Royal Australian Air Force
R.A.C.	Royal Armoured Corps
R.A.C.P.	Royal Australasian College of Physicians
R.A.F.	Royal Air Force
R.A.F.V.R.	Royal Air Force Volunteer Reserve

R.A.M.	Royal Academy of Music
R.A.M.C.	Royal Army Medical Corps
R.C.	Roman Catholic
R.C.A.	Royal College of Art; Royal Canadian Academy; Radio Corporation of America
Regt.	Regiment
Rep.	Representative; Represented
Repub.	Republic
resgnd.	resigned
retd.	retired
Rev.	Reverend
R.I.	Rhode Island
R.I.B.A.	Royal Institute of British Architects
R.M.A.	Royal Military Academy
R.N.	Royal Navy
R.N.R.	Royal Naval Reserve
R.N.V.R.	Royal Naval Volunteer Reserve
R.N.Z.A.F.	Royal New Zealand Air Force
R.P.	Member Royal Society of Portrait Painters
R.P.R.	Rassemblement pour la République
R.S.A.	Royal Scottish Academy; Royal Society of Arts
R.S.C.	Royal Shakespeare Company
RS.Dr.	Doctor of Social Sciences
R.S.F.S.R.	Russian Soviet Federative Socialist Republic
R.S.L.	Royal Society of Literature
Rt. Hon.	Right Honourable
Rt. Rev.	Right Reverend
R.V.O.	Royal Victorian Order
R.W.S.	Royal Society of Painters in Water Colours
s.	son(s)
S.	South
S.A.	South Africa; Société Anonyme, Sociedad Anónima
S.A.E.	Society of Aeronautical Engineers
Salop	Shropshire
Sask.	Saskatchewan
S.B.	Bachelor of Science (U.S.A.)
S.C.	South Carolina; Senior Counsel
SCAP	Supreme Command Allied Powers
Sc.B.	Bachelor of Science
Sc.D.	Doctor of Science
S.Dak.	South Dakota
S.E.	South East
SEATO	South East Asia Treaty Organization
Sec.	Secretary
SEC	Securities and Exchange Commission
Secr.	Secretariat
SED	Sozialistische Einheitspartei Deutschlands (Socialist Unity Party of the German Democratic Republic)
Sept.	September
S.-et-O.	Seine-et-Oise
SHAEF	Supreme Headquarters Allied Expeditionary Force
SHAPE	Supreme Headquarters Allied Powers in Europe
S.J.	Society of Jesus (Jesuits)
S.J.D.	Doctor of Juristic Science
S.M.	Master of Science
S.O.A.S.	School of Oriental and African Studies
Soc.	Society, Société
S.p.A.	Società per Azioni
SPD	Sozialdemokratische Partei Deutschlands
Sr.	Senior
S.R.C.	Science Research Council
S.S.R.	Soviet Socialist Republic
Staffs.	Staffordshire
S.T.B.	Bachelor of Sacred Theology
S.T.D.	Doctor of Sacred Theology
S.T.L.	Licentiate of Sacred Theology
S.T.M.	Master of Sacred Theology
Supt.	Superintendent
S.W.	South West
T.A.	Territorial Army
T.D.	Territorial Decoration; Teachta Dála (mem. of the Dáil)
Tech.	Technical, Technology
Temp.	Temporary
Tex.	Texas
Th.B.	Bachelor of Theology
Th.D.	Doctor of Theology
TH.Dr.	Doctor of Theology
Th.M.	Master of Theology
Trans.	Translation; translator
Treas.	Treasurer
TU(C)	Trades Union (Congress)
TV	Television
U.A.E.	United Arab Emirates
U.A.R.	United Arab Republic
UDEAC	L'Union Douanière et Economique de l'Afrique Centrale
UDR	Union des Démocrates pour la République
U.K.	United Kingdom (of Great Britain and Northern Ireland)
UKAEA	United Kingdom Atomic Energy Authority
UMIST	University of Manchester Institute of Science and Technology
UMNO	United Malays National Organization
UN(O)	United Nations (Organization)
UNA	United Nations Association
UNCTAD	United Nations Conference on Trade and Development
UNDP	United Nations Development Programme
UNDRO	United Nations Disaster Relief Office
UNEF	United Nations Emergency Force
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organisation
UNHCR	United Nations High Commission for Refugees
UNICEF	United Nations International Children's Emergency Fund
UNIDO	United Nations Industrial Development Organization
UNITAR	United Nations Institute for Training and Research
Univ.	University
UNKRA	United Nations Korean Relief Administration
UNRRA	United Nations Relief and Rehabilitation Administration
UNRWA	United Nations Relief and Works Agency
U.P.	United Provinces, Uttar Pradesh (India)
UPU	Universal Postal Union
U.S.A.	United States of America
U.S.A.F.	United States Air Force
U.S.N.	United States Navy
U.S.N.R.	United States Navy Reserve
U.S.S.	United States Ship
U.S.S.R.	Union of Soviet Socialist Republics
Va.	Virginia
V.C.	Victoria Cross
Vic.	Victoria
Vol(s).	Volume(s)
Vt.	Vermont
W.	West
W.A.	Western Australia
Warwicks.	Warwickshire
Wash.	Washington (State)
WCC	World Council of Churches
WEU	Western European Union
WFTU	World Federation of Trade Unions
WHO	World Health Organization
Wilts.	Wiltshire
WIPO	World Intellectual Property Organization
Wis.	Wisconsin
WMO	World Meteorological Organization
Worcs.	Worcestershire
W.R.A.C.	Women's Royal Army Corps
W.R.N.S.	Women's Royal Naval Service
W.Va.	West Virginia
Wyo.	Wyoming
YMCA	Young Men's Christian Association
Yorks.	Yorkshire
YWCA	Young Women's Christian Association

REIGNING ROYAL FAMILIES

Biographical entries of most of the reigning monarchs and of certain other members of the reigning royal families will be found in their appropriate alphabetical order in the biographical section of this book

BAHRAIN

Reigning Amir

SHEIKH ISA BIN SULMAN AL-KHALIFA; b. July 3, 1933; succeeded his father Sheikh Sulman bin Hamad al-Khalifa 1958.

Crown Prince

Sheikh Hamad bin Isa al-Khalifa; b. January 28, 1950.

BELGIUM

Reigning King

KING BAUDOUIN ALBERT CHARLES LÉOPOLD AXEL MARIE GUSTAVE; b. September 7, 1930; succeeded to the throne July 17, 1951, after abdication of his father, King Léopold III; married December 15, 1960, Doña Fabiola de Mora y Aragón (b. June 11, 1928).

Father of the King

King Léopold III; b. November 3, 1901; married (1) November 4, 1926, Princess Astrid of Sweden (b. November 17, 1905, died August 29, 1935); (2) September 11, 1941, Mlle Mary Liliane Baels (three children).

Brother of the King

Prince Albert, Prince of Liège; b. June 6, 1934; married July 2, 1959, Donna Paola Ruffo di Calabria (two sons, one daughter).

Sister of the King

Joséphine Charlotte, Princess of Belgium; b. October 11, 1927; married April 9, 1953, Prince Jean of Luxembourg (b. January 5, 1921) (five children).

BHUTAN

Reigning King

THE DRUK GYALPO JIGME SINGHYE WANGCHUK, King of Bhutan; b. November 11, 1955; succeeded to the throne July 24, 1972, on the death of his father, the Druk Gyalpo Jigme Dorji Wangchuk; crowned June 2, 1974.

Parents of the King

The Druk Gyalpo Jigme Dorji Wangchuk; b. 1928; married 1953, Queen Ashi Kesang Wangchuk; succeeded to the throne October 28, 1952; died July 21, 1972.

DENMARK

Reigning Queen

QUEEN MARGRETHE II; b. April 16, 1940; succeeded to the throne January 14, 1972, on the death of her father, King Frederik IX; married June 10, 1967, Count Henri de Laborde de Monpezat (Prince Henrik) (b. June 11, 1934).

Children of the Queen

Prince Frederik André Henrik Christian (heir-apparent); b. May 26, 1968.

Prince Joachim Holger Waldemar Christian; b. June 7, 1969.

Parents of the Queen

King Frederik IX; b. March 11, 1899; died January 14, 1972; son of King Christian X and Queen Alexandrine; married May 24, 1935, Princess Ingrid of Sweden (b. March 28, 1910); died January 14, 1972.

Sisters of the Queen

Princess Benedikte; b. April 29, 1944; married February 3, 1968, Prince Richard zu Sayn-Wittgenstein-Berleburg; son Prince Gustav, b. January 12, 1969; daughter Princess Alexandra, b. November 20, 1970; daughter Princess Nathalie, b. May 2, 1975.

Queen Anne-Marie of the Hellenes; b. August 30, 1946; married September 18, 1964, King Constantine II of the Hellenes; sons Prince Paul, b. May 20, 1967, Prince Nicholas, b. October 1, 1969; daughter Princess Alexia, b. July 10, 1965.

JAPAN

Reigning Emperor

EMPEROR HIROHITO; b. April 29, 1901; succeeded his father December 25, 1926; married January 26, 1924, PRINCESS NAGAKO KUNI (b. March 6, 1903), daughter of Prince Kuni.

Children of the Emperor

Princess Shigeko (Terunomiya); b. December 6, 1925 (married); died July 1961.*

Princess Kazuko (Takanomiya); b. September 30, 1929 (married).*

Princess Atsuko (Yorinomiya); b. March 7, 1931 (married).*

Prince Akihito (Tsugunomiya); b. December 23, 1933; married April 10, 1959, Michiko Shoda; sons, Prince Naruhito Hironomiya; b. February 23, 1960; Prince Fumihito (Ayanomiya); b. November 30, 1965; daughter, Princess Nori; b. April 18, 1969.

Prince Masahito (Hitachinomiya); b. November 28, 1935; married September 1964, Hanako Tsugaru.

Princess Takako (Suganomiya); b. March 2, 1939; married March 10, 1960, Hisanaga Shimazu.*

* Denotes that under the postwar new law, married daughters of the Emperor are commoners. They are no longer listed as members of the Imperial Family in most reference books.

Parents of the Emperor

Emperor Yoshihito; b. August 21, 1879; married May 10, 1900, died 1926; Princess Sadako (b. June 25, 1884, died May 1951), daughter of Prince Kujo.

Surviving Brothers of the Emperor

Prince Nobuhito (Takamatsunomiya); b. January 3, 1905.

Prince Takahito (Mikasanomiya); b. December 2, 1915.

JORDAN

Reigning King

KING HUSSEIN; b. November 14, 1935; succeeded to the throne on the abdication of his father, August, 1952; ascended the throne May 2, 1953; married April 19, 1955, PRINCESS DINA, daughter of Abd-el-Hamid Aoun of Saudi Arabia (now divorced); married May 25, 1961, Miss Antoinette Gardner, PRINCESS MUNA AL-HUSSEIN (divorced 1972); married December 24, 1972, ALIA BAHA EDDIN TOUKAN (Queen Alia Al-Hussein, died February 10, 1977); married June 15, 1978, Miss ELIZABETH HALABI (Queen Noor Al-Hussein).

Children of the King

Princess Alya; b. February 13, 1956; married Nasser Wasfi Mirza 1977.

Prince Abdullah; b. January 30, 1962.

Prince Feisal; b. October 11, 1963.

Princess Zein; b. April 26, 1968.

Princess Ayeshia; b. April 26, 1968.

Princess Haya; b. May 3, 1974.

Prince Ali; b. December 23, 1975.

Parents of the King

King Talal; b. February 26, 1907; married November 27, 1933, Queen Zein Al Sharaf; died July 8, 1972.

Brothers and Sister of the King

H.R.H. Prince Mohammed; married January 9, 1964, Princess Firyal; sons Prince Talal, b. July 26, 1965 and Prince Ghazi, b. October 15, 1966.

H.R.H. Prince Hassan (named Crown Prince, April 1, 1965); married Princess Tharwat; daughters Princess Rahma, Princess Sunayya, Princess Badia.

H.R.H. Princess Basmah; married April 2, 1970, Lt. Timor al-Daghistani; daughter, Princess Farah, b. March 25, 1971; son, Prince Ghazi, b. October 15, 1974.

KUWAIT

Reigning Amir

SHEIKH JABER AL-AHMAD AL-JABER AL-SABAH; b. 1928; succeeded his uncle Sheikh Sabah al-Salim al-Sabah as Head of State December 31, 1977.

Crown Prince

SHEIKH SAAD AL-ABDULLAH AL-SALEM AL-SABAH; proclaimed Crown Prince January 31, 1978.

LESOTHO

Reigning King

KING MOSHOESHOE II; b. May 2, 1938; married August 23, 1962, PRINCESS TABITHA 'MASENTLE; became King when Lesotho gained independence, 1966.

Children of the King

Prince Letsie David; b. July 17, 1963.

Prince Seeiso Simeone; b. April 16, 1966.

Princess Constance Christina Sebueng; b. December 24, 1969.

Parents of the King

Seeiso Griffith, late Paramount Chief of Basutoland (b. 1905) and the late 'Ma-Bereng.

LIECHTENSTEIN

Reigning Prince

FRANZ JOSEF II; b. August 16, 1906; succeeded his great-uncle, July 26, 1938; married March 7, 1943, COUNTESS GINA VON WILCZEK (PRINCESS GEORGINE) (b. October 24, 1921).

Children of the Prince

Hereditary-Prince Hans Adam; b. February 14, 1945; married July 30, 1967, Countess Maria Kinsky; sons, Prince Alois, b. June 11, 1968; Prince Maximilian, b. May 16, 1969; Prince Constantin, b. March 15, 1972; daughter Princess Tatjana, b. April 10, 1973.

Prince Philipp; b. August 19, 1946; married September 11, 1971, Mademoiselle Isabelle de l'Arbre de Malander; sons, Prince Alexander, b. May 19, 1972; Prince Wenzeslaus, b. May 12, 1974; Prince Rudolf, b. September 7, 1975.

Prince Nicolaus; b. October 24, 1947.

Princess Nora; b. October 31, 1950.

Prince Franz Josef Wenzel Georg Maria; b. November 19, 1962.

Brothers and Sisters of the Prince

Princess Maria Theresia (Countess Strachwitz); b. January 14, 1908; died September 30, 1973.

Prince Karl Alfred; b. August 16, 1910.

Prince Georg; b. November 11, 1911.

Prince Ulrich; b. August 29, 1913; died October 12, 1978.

Princess Henriette; b. November 6, 1914.

Prince Alois; b. December 20, 1917; died February 14, 1967.

Prince Heinrich; b. October 21, 1920.

LUXEMBOURG

Reigning Monarch

GRAND DUKE JEAN; b. January 5, 1921; succeeded November 12, 1964, on the abdication of his mother, Grand Duchess Charlotte; married April 9, 1953, JOSEPHINE CHARLOTTE, PRINCESS OF BELGIUM (b. October 11, 1927).

Children of the Grand Duke

Princess Marie-Astrid; b. February 17, 1954.

Prince Henri; b. April 16, 1955.

Prince Jean; b. May 15, 1957.

Princess Margaretha; b. May 15, 1957.

Prince Guillaume; b. May 1, 1963.

Parents of the Grand Duke

Grand Duchess Charlotte, Duchess of Nassau; b. January 23, 1896; succeeded January 15, 1919; abdicated in favour of her son, Grand Duke Jean, November 12, 1964; married November 6, 1919, Prince Félix of Bourbon Parma (b. September 28, 1893, died April 8, 1970).

Brother and Sisters of the Grand Duke

Princess Elisabeth; b. December 22, 1922; married May 9, 1956, Prince François Ferdinand of Hohenberg (b. September 13, 1927); two d.

Princess Marie-Adelaide; b. May 21, 1924; married April 10, 1958, Count Charles Joseph Henckel de Donnersmarck (b. November 7, 1928); three s. one d.

Princess Marie-Gabrielle; b. August 10, 1925; married November 6, 1951, Count Knud de Holstein-Ledreborg (b. October 2, 1919); seven d.

Prince Charles; b. August 7, 1927; married March 1, 1967, Joan Douglas Dillon; one s. one d.; died July 26, 1977.

Princess Alix; b. August 24, 1929; married August 17, 1950, H.H. Prince Antoine de Ligne (b. March 8, 1925); three s. three d.

MALAYSIA

*Supreme Head of State (Yang di-Pertuan Agung)**

SULTAN HAJI AHMAD SHAH IBNI ALMARHUM SULTAN SIR ABU BAKAR RIAYATUDDIN ALMUADZAM SHAH, Sultan of Pahang; b. October 24, 1930; elected seventh Yang di-Pertuan Agung June 15, 1979; married Tengku Hajjaj Afzan binti Tengku Muhammad 1954; two sons, five daughters.

* Reign ends in 1984.

MONACO

PRINCE RAINIER III; b. May 31, 1923; succeeded his grandfather, Prince Louis II, May 9, 1949; married April 18, 1956, Miss GRACE PATRICIA KELLY, daughter of the late Mr. John Brendan Kelly and Mrs. Margaret Kelly, of Philadelphia, U.S.A.

Children of the Prince

Princess Caroline Louise Marguerite; b. January 23, 1957; married 28 June 1978, Philippe Junot.

Prince Albert Alexandre Louis Pierre; b. March 14, 1958.

Princess Stéphanie Marie Elisabeth; b. February 1, 1965.

Parents of the Prince

Princess Charlotte, Duchess of Valentinois (b. September 30, 1898; died November 15, 1977); married March 19, 1920, Comte Pierre de Polignac, who assumed the style and title of Prince Pierre of Monaco; he died November 10, 1964.

MOROCCO

Reigning King

KING HASSAN II (formerly Crown Prince Moulay Hassan); b. July 9, 1929; son of King Mohammed V (died February 26, 1961); became King and Prime Minister of Morocco when he succeeded his father, March 3, 1961.

Children of the King

Princess Myriam; b. August 26, 1962.

Prince Mohamed; b. August 21, 1963.

Princess Asma; b. 1965.

Princess Hasna; b. 1967.

Prince Rachid; b. July 1970

Brother and Sisters of the King

Prince Moulay Abdullah; married Lamia Solh.

Princess Lalla Aicha.

Princess Lalla Malika.

Princess Lalla Nezha.

Princess Lalla Amina.

Princess Lalla Fatima Zohra.

NEPAL

Reigning King

KING BIRENDRA BIR BIKRAM SHAH DEV; b. December 28, 1945; succeeded to the throne, January 31, 1972, on the death of his father King Mahendra; crowned February 24, 1975; married 1970, PRINCESS AISHWARYA RAJYA LAXMI DEVI RANA.

Children of the King

Crown Prince Deependra Bir Bikram Shah Dev; b. June 27, 1971.

Princess Shruti Rajya Laxmi Devi Shah; b. October 16, 1976.

Prince Nirajan Bir Bikram Shah; b. November 6, 1978.

NETHERLANDS

Reigning Queen

QUEEN JULIANA LOUISE EMMA MARIE WILHELMINA, Princess of Orange Nassau, Duchess of Mecklenburg; Princess of Lippe-Biesterfeld, etc.; b. April 30, 1909; succeeded to the throne on the abdication of her mother, September 4, 1948; inaugurated September 6, 1948; married January 7, 1937, PRINCE BERNHARD LEOPOLD FREDERIK EVERHARD JULIUS COERT KAREL GODFRIED PIETER OF LIPPE-BIESTERFELD (b. June 29, 1911).

Children of the Queen

Princess Beatrix Wilhelmina Armgard; b. January 31, 1938; married March 10, 1966, Claus George Willem Otto Frederik Geert van Amsberg; sons Prince Willem-Alexander Claus George Ferdinand, b. April 27, 1967, Prince Johan Friso Bernhard Christiaan David, b. September 25, 1968, Prince Constantijn Christof Frederik Aschwin, b. October 11, 1969.

Princess Irene Emma Elisabeth; b. August 5, 1939; married April 29, 1964, Prince Carlos Hugo of Bourbon Parma; sons Prince Carlos Xavier Bernardo, b. January 27, 1970, Prince Jaime Bernado, b. October 13, 1972; daughters Princess Margarita Maria Beatriz, b. October 13, 1972, Princess Maria Carolina Christina, b. June 23, 1974.

Princess Margriet Francisca; b. January 19, 1943; married January 10, 1967, Pieter van Vollenhoven; sons, Prince Maurits Willem Pieter Hendrik van Orange Nassau van Vollenhoven, b. April 17, 1968, Prince Bernhard Lucas Emmanuel, b. December 25, 1969, Prince Pieter-Christiaan Michiel, b. March 22, 1972, Prince Floris Frederik Martyn, b. April 10, 1975.

Princess Maria Christina; b. February 18, 1947; married June 28, 1975, Jorge Guillermo; son Bernardo Federico Tomás, b. June 17, 1977.

Parents of the Queen

Princess Wilhelmina Helena Pauline Maria; b. August 31, 1880; daughter of King Willem III and his second wife, Princess Adelheid Emma Wilhelmina Theresia of Waldeck and Pyrmont; succeeded to the throne November 23, 1890; married February 7, 1901, Prince Hendrik Wladimir Albrecht Ernst of Mecklenburg-Schwerin (b. April 19, 1876, died July 3, 1934); abdicated September 4, 1948; died November 28, 1962.

NORWAY

Reigning King

KING OLAV V; b. July 2, 1903; succeeded to the throne on the death of his father, King Haakon VII, September 21, 1957; married March 21, 1929, Princess Märtha of Sweden (b. March 28, 1901, died April 5, 1954), daughter of Prince Carl (third son of King Oscar II of Norway and Sweden).

Children of the King

Crown Prince Harald; b. February 21, 1937; married August 29, 1968, Miss Sonja Haraldsen (now Crown Princess Sonja), daughter Princess Märtha Louise, b. September 22, 1971; son Prince Haakon Magnus, b. July 20, 1973.

Princess Ragnhild Alexandra; b. June 9, 1930; married May 15, 1953, H. Erling Lorentzen; three children.

Princess Astrid Maud Ingeborg; b. February 12, 1932; married January 12, 1961, Hr. Johan Martin Ferner; five children.

Parents of the King

King Haakon VII of Norway; b. August 3, 1872, died September 21, 1957; elected King of Norway by the Storting, November 18, 1905; married July 22, 1896, Princess Maud (b. November 27, 1869, died November 20, 1938), third daughter of King Edward VII of Great Britain.

OMAN

Reigning Sultan

SULTAN QABOOS BIN SAID; b. November 18, 1940; succeeded to the throne on the abdication of his father, Sultan Said bin Taimur (1910–72), July 23, 1970.

QATAR

Reigning Amir

SHEIKH KHALIFA BIN HAMAD AL-THANI; b. 1934; succeeded his cousin Sheikh Ahmad bin Ali al-Thani as Head of State, February 22, 1972.

SAUDI ARABIA

Reigning King

KING KHALID IBN ABDUL AZIZ, Imam of the Moslems, Head of the Council of Ministers; b. 1909; acceded March 26, 1975.

Brothers of the King include

King Saud ibn Abdul Aziz; b. January 15, 1901; acceded November 9, 1953, relinquished throne November 2, 1964; died February 23, 1969.

King Faisal ibn Abdul Aziz; b. 1905; acceded November 2, 1964; died March 25, 1975.

Prince Fahd ibn Abdul Aziz; b. 1922; proclaimed Crown Prince 1975.

Amir Mohammed; b. 1910.

Amir Sultan; b. 1924.

Amir Talal; b. 1930.

SPAIN

Reigning King

KING JUAN CARLOS I; b. January 5, 1938; succeeded to the throne November 22, 1975; married May 14, 1962, Princess Sophia of Greece (b. November 2, 1938), daughter of the late King Paul of the Hellenes and of Queen Frederica.

Children of the King

Princess Elena; b. December 20, 1963.

Princess Cristina; b. June 13, 1965.

Prince Felipe; b. January 30, 1968.

Parents of the King

Don Juan de Borbón y Battenberg, Count of Barcelona; b. June 20, 1913; married 1935, Doña María de las Mercedes de Borbón y Orleans.

SWAZILAND

Reigning King

KING SOBHUZA II; b. July 22, 1899; installed as constitutional ruler 1921.

Father of the King

Ngwane V.

SWEDEN

Reigning King

KING CARL XVI GUSTAF; b. April 30, 1946; succeeded to the throne September 15, 1973, on the death of his grandfather King Gustaf VI Adolf; married June 19, 1976, Silvia Renate Sommerlath (b. December 23, 1943); daughter Victoria Ingrid Alice Désirée, b. July 14, 1977.

Parents of the King

Prince Gustaf Adolf, Duke of Västerbotten; b. April 22, 1906, died January 26, 1947; married October 20, 1932, Sibylla, Princess of Saxe-Coburg and Gotha (b. January 18, 1908, died November 28, 1972).

Sisters of the King

Princess Margaretha; b. October 31, 1934; married June 30, 1964, Mr. John Ambler; daughter, Sybille Louise, b. April 14, 1965; sons, Charles Edward, b. July 14, 1966; James Patrick, b. June 10, 1969.

Princess Birgitta; b. January 19, 1937; married May 25, 1961, Prince of Hohenzollern Johann Georg; sons, Carl Christian, b. April 5, 1962; Hubertus, b. June 10, 1966; daughter, Desirée, b. November 27, 1963.

Princess Désirée; b. June 2, 1938; married June 5, 1964, Baron Niclas Silfverschiöld; son, Carl Otto Edmund, b. March 22, 1965; daughters, Christina Louise Madeleine, b. September 29, 1966, Hélène, b. September 20, 1968.

Princess Christina; b. August 3, 1943; married June 15, 1974, Tord Magnuson; sons, Gustaf, b. August 8, 1975, Tord Oscar Fredrik, b. June 20, 1977.

THAILAND

Reigning King

KING BHUMIBOL ADULYADEJ: b. December 5, 1927; succeeded to the throne on the death of his brother, King Ananda Mahidol, June 9, 1946; married April 28, 1950, MOM RAJAWONG SIRIKIT KITIYAKARA (b. August 12, 1932), daughter of H.H. Prince Nakkhatra Mongkol Kitiyakara, Krommuen Chandaburi Suranat.

Children of the King

Princess Ubol Ratana; b. April 5, 1951; married August 1972, Peter Ladd Jensen (relinquished Royal claims).

Prince Vajiralongkorn; b. July 28, 1952; proclaimed Crown Prince December 1972; married January 3, 1977, Mom Luang Somsawalee Kitiyakara; daughter Princess Bhajara Kitiyabha, b. December 7, 1978.

Princess Maha Chakri Sirindhorn; b. April 2, 1955.

Princess Chulabhorn; b. July 4, 1957.

Parents of the King

Prince Mahidol of Songkhla and Princess Sri Sangwalya.

Sister of the King

Princess Kalyani Vadhana.

TONGA

Reigning King

KING TAUFA'AHAU TUPOU IV; b. July 4, 1918; succeeded to the throne December 15, 1965, on death of his mother Queen Salote Tupou III; married 1947, Princess Halaevalu Mata'aho (b. 1926).

Mother of the King

Queen Salote Pilolevu Tupou III; b. March 13, 1900; married 1917, Prince Viliami Tungi (Prince Consort); died December 15, 1965.

Children of the King

Prince Tupouto'a (Crown Prince); b. May 4, 1948.

Princess Salote Mafile'o Pilolevu Tuku'aho Tuita; b. November 17, 1951; married July 21, 1976, Captain Ma'ulupekotofa Tuita.

Prince Fatafehi Alaivahamama'o Tuku'aho; b. December 17, 1954.

Prince Aho'eitu Unuakiotonga Tuku'aho; b. July 12, 1959.

UNITED ARAB EMIRATES

Reigning Rulers

Ruler of Sharjah: Sheikh SULTAN BIN MUHAMMAD AL-QASIMI; succeeded to the throne 1972.

Ruler of Ras al Khaimah: Sheikh SAQR BIN MUHAMMAD AL-QASIMI; succeeded to the throne 1948.

Ruler of Umm al Quwain: Sheikh AHMAD BIN RASHID AL-MU'ALLA, M.B.E.; succeeded to the throne 1929.

Ruler of Ajman: Sheikh RASHID BIN HUMAID AL-NU'AIMI; succeeded to the throne 1928.

Ruler of Dubai: Sheikh RASHID BIN SAID AL-MAKTUM; succeeded to the throne 1958.

Ruler of Abu Dhabi: Sheikh ZAYED BIN SULTAN AL-NAHAYAN; succeeded to the throne 1966.

Ruler of Fujairah: Sheikh HAMAD BIN MUHAMMAD AL-SHARQI; succeeded to the throne 1974.

UNITED KINGDOM

Reigning Queen

QUEEN ELIZABETH II; b. April 21, 1926; succeeded to the throne February 6, 1952, on the death of her father, King George VI; crowned June 2, 1953; married November 20, 1947, H.R.H. The Prince Philip, DUKE OF EDINBURGH, K.G. (b. June 10, 1921), son of Prince Andrew of Greece and Princess Alice of Battenberg (Mountbatten).

Children of the Queen

Prince Charles Philip Arthur George, Prince of Wales, Duke of Cornwall and Rothesay, Earl of Chester and Carrick, Baron of Renfrew, Lord of the Isles and Great Steward of Scotland, K.G. (heir-apparent); b. November 14, 1948.

Princess Anne Elizabeth Alice Louise; b. August 15, 1950; married November 14, 1973, Captain Mark Phillips; son, Peter Mark Andrew, b. November 15, 1977.

Prince Andrew Albert Christian Edward; b. February 19, 1960.

Prince Edward Antony Richard Louis; b. March 10, 1964.

Parents of the Queen

King George VI; b. December 14, 1895; son of King George V and Queen Mary; married April 26, 1923, Lady Elizabeth Angela Marguerite Bowes-Lyon (b. August 4, 1900); succeeded to the throne December 11, 1936; died February 6, 1952.

Sister of the Queen

Princess Margaret Rose; b. August 21, 1930; married May 6, 1960, the Earl of Snowdon, G.C.V.O. (divorced 1978); son, Viscount Linley, b. November 3, 1961; daughter, Lady Sarah Frances Elizabeth Armstrong-Jones; b. May 1, 1964.

The full titles of Queen Elizabeth II are as follows:

United Kingdom

"Elizabeth the Second, by the Grace of God, of the United Kingdom of Great Britain and Northern Ireland and of Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith."

Canada

"Elizabeth the Second, by the Grace of God, of the United Kingdom, Canada, and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith."

Australia

"Elizabeth the Second, by the Grace of God, Queen of Australia and Her Other Realms and Territories, Head of the Commonwealth."

New Zealand

"Elizabeth the Second, by the Grace of God, Queen of New Zealand and Her Other Realms and Territories, Head of the Commonwealth, Defender of the Faith."

Jamaica

"Elizabeth the Second, by the Grace of God, of Jamaica and of Her other Realms and Territories, Queen, Head of the Commonwealth."

Barbados

"Elizabeth the Second, by the Grace of God, Queen of Barbados and of Her other Realms and Territories, Head of the Commonwealth."

Mauritius

"Elizabeth the Second, Queen of Mauritius and of Her other Realms and Territories, Head of the Commonwealth."

Fiji

"Elizabeth the Second, by the Grace of God, Queen of Fiji and of Her other Realms and Territories, Head of the Commonwealth."

The Bahamas

"Elizabeth the Second, by the Grace of God, Queen of the Commonwealth of The Bahamas and of Her other Realms and Territories, Head of the Commonwealth."

Grenada

"Elizabeth the Second, by the Grace of God, Queen of the United Kingdom of Great Britain and Northern Ireland and of Grenada and Her other Realms and Territories, Head of the Commonwealth."

Papua New Guinea

"Elizabeth the Second, Queen of Papua New Guinea and of Her other Realms and Territories, Head of the Commonwealth."

Solomon Islands

"Elizabeth the Second, by the Grace of God, Queen of Solomon Islands and of Her other Realms and Territories, Head of the Commonwealth."

Tuvalu

"Elizabeth the Second, by the Grace of God, Queen of Tuvalu and of Her other Realms and Territories, Head of the Commonwealth."

St. Lucia

"Elizabeth the Second, by the Grace of God, Queen of Saint Lucia and of Her other Realms and Territories, Head of the Commonwealth."

The Republics of India, Ghana, Cyprus, Tanzania, Uganda, Kenya, Zambia, Malawi, Nigeria, Singapore, Botswana, Guyana, Nauru, The Gambia, Sierra Leone, Bangladesh, Sri Lanka, Malta, Trinidad and Tobago, Seychelles, Dominica and Kiribati, together with the Federation of Malaysia, the Kingdom of Lesotho, the Kingdom of Swaziland, the Kingdom of Tonga, the Independent State of Western Samoa, and recognize the Queen as "Head of the Commonwealth".

OBITUARY

** The biographies of some of those whose deaths were noted after the preparation of copy for this edition (May 1979) still appear in the text. Their names are marked with an asterisk in the following list.*

Abdul Kadir bin Shamsuddin, Tan Sri	8 Nov. 1978
Abercrombie, Michael	May 1979
Acheampong, Gen. Ignatius Kutu	16 June 1979
Adam, Kenneth	18 Oct. 1978
*Afrifa, Lieut.-Gen. Okatakyie Akwasi Amankwaa	26 June 1979
Akenzua II, Oba Omonoba Ukuakpolokpolo	Nov. 1979
*Akufo-Addo, Edward	July 1979
*Akuffo, Maj.-Gen. Fred W. K.	26 June 1979
Alekseyevsky, Yevgeniy Yevgeniyevich	1 Jan. 1979
Antokolskiy, Pavel Grigoriyevich	Oct. 1978
Asplund, Karl	3 April 1978
Aykroyd, Wallace Ruddell	Feb. 1979
*Babin, Jean	15 Dec. 1978
Bagrit, Sir Leon	April 1979
*Barbieri, H.E. Cardinal Antonio María	6 July 1979
Barlow, Charles Sydney	1 June 1979
Baroody, Jamil Murad	4 March 1979
Bartlett, Dewey Follett	1 March 1979
Baumgartner, Wilfred Siegfried	1 June 1978
Beck, Most Rev. George Andrew	13 Sept. 1978
Beecher, Henry K.	Deceased
*Bellanger, Claude	13 May 1978
Beltran, Pedro Gerardo	16 Feb. 1979
Bennett, Hon. William Andrew Cecil	Feb. 1979
Benning, Bernhard	Deceased
Bentley, Nicolas Clerihew	14 Aug. 1978
*Berg, Axel Ivanovich	July 1979
Bernhard, Wilhelm	9 Oct. 1978
Berthoin, Jean	1979
Bhutto, Zulfiqar Ali	3 April 1979
Bieber, Margarete	25 Feb. 1978
Bierwith, John E.	3 April 1978
*Blauzat, Jean	Nov. 1977
Blokhintsev, Dmitriy Ivanovich	27 Jan. 1979
Boesch, Hans H.	16 Aug. 1978
Bonnet, Henri	24 Oct. 1978
*Bouladoux, Maurice	8 Nov. 1977
Boumedienne, Col. Houari	27 Dec. 1978
Brand, Hon. Sir David	April 1979
Bressou, Clément Jean Pierre François Emmanuel	31 Jan. 1979
Brodie, Very Rev. Rabbi Sir Israel	Feb. 1979
Brofoss, Erik	8 May 1979
*Bromberger, Merry Marie Louis	12 March 1978
Brown, Gen. George Scratchley	5 Dec. 1978
*Brundage, Percival F.	16 July 1979
Bullock, Sir Ernest	May 1979
Busia, Kofi Abrefa	28 Aug. 1978
Butler, Sir Milo Boughton	Jan. 1979
Caillois, Roger	Dec. 1978
Campbell, Sir David	30 May 1978
Catlin, Sir George Edward Gordon	Feb. 1979
Catton, Bruce	28 Aug. 1978
Chatterji, Suniti Kumar	May 1977
Chauvel, Jean Michel Henri	31 May 1979
Chávez, Carlos	2 Aug. 1978
Cheshire, Geoffrey Chevalier	27 Oct. 1978
Chidzanja Nkhoma, R. Beston	9 April 1978
Ciolkosz, Adam	1 Oct. 1978
Clark, Sir George Norman	Feb. 1979
Clifford, John McLean	March 1979
*Clore, Sir Charles	July 1979
Colin, André	30 Aug. 1978
Comas Camps, Juan	18 Jan. 1979
Conrad, Wilhelm	Deceased
Conroy, Sir Diarmaid William	8 Aug. 1978
Coote, Sir Colin Reith	8 June 1979
Couder, André	16 Jan. 1979
Cozzens, James Gould	9 Aug. 1978
Croft-Cooke, Rupert	June 1979
Danckwerts, Rt. Hon. Sir Harold Otto	12 June 1979
Darlington, William Aubrey	24 May 1979
Davies, Rt. Hon. John Emerson Harding	4 July 1979
De Boor, Helmut	Deceased
De Chirico, Giorgio	19 Nov. 1978
De Geer, Carl	25 Feb. 1978
De Guingand, Major-General Sir Francis W.	June 1979
Delargey, H.E. Cardinal Reginald John	29 Jan. 1979
Deroy, Henri	16 Jan. 1979
Deschamps, Hubert	May 1979
Dessau, Paul	June 1979
Destrée, Jacques	11 March 1979
Diaz Ordaz, Gustavo	July 1979
Diederichs, Nicholaas	21 Aug. 1978
*Diefenbaker, Rt. Hon. John George	16 Aug. 1979
Dikushin, Vladimir Ivanovich	12 Jan. 1978
Dingle, Herbert	4 Sept. 1978
Dodds, Eric Robertson	April 1979
Dummett, Robert Bryan	Dec. 1978
Dupont, Clifford Walter	28 June 1978
Du Vigneaud, Vincent	11 Dec. 1978
Eames, Charles	21 Aug. 1978
Eaton, Cyrus Stephen	9 May 1979
Elkins, Sir Anthony Joseph	31 Oct. 1978
*Emerson, Ralph	12 March 1979
Ephrussi, Boris	2 May 1979
Ericsson, John August	25 Dec. 1977
Fabinyi, Andrew	25 July 1978
Farrell, James Augustine, Jr.	15 Sept. 1978
Favre, Antoine	Deceased
Feather, Norman	14 Aug. 1978
Felli, Col. Roger Joseph	26 June 1979
Fenton, Roy Pentelow	5 April 1979
Fischer, John	18 Aug. 1978
Florkin, Marcel	May 1979
Foot, Rt. Hon. Sir Dingle Mackintosh	18 June 1978
Ford, Benson	27 July 1978
Friberg, Sten Axel	3 May 1977
Frings, H.E. Cardinal Joseph	18 Dec. 1978
Gabor, Dennis	9 Feb. 1979
Gaggero, Sir George	4 Sept. 1978
Gannon, Rev. Robert Ignatius	12 March 1978
Gardner, Stephen Symmes	19 Nov. 1978
Garofalides, Theodore	Aug. 1978
Geijer, Karl Arne	27 Jan. 1979
Ghikas, Solon	7 Sept. 1978
Gillen, Stanley James	15 July 1978
Gillon, Etienne	30 Dec. 1978
Gilson, Etienne	20 Sept. 1978
Glass, David Victor	23 Sept. 1978
Gonçalves Cerejeira, H.E. Cardinal Manuel	2 Aug. 1977
Goodhart, Arthur Lehman	10 Nov. 1978
Goonetilleke, Sir Oliver Ernest	Dec. 1978
Goudsmit, Samuel Abraham	4 Dec. 1978
Gracias, H.E. Cardinal Valerian	11 Sept. 1978
Griffith-Jones, Sir Eric (Newton)	Feb. 1979
Grin, Edmond	Deceased
Grishmanov, Ivan Aleksandrovich	4 Jan. 1979
Gronchi, Giovanni	17 Oct. 1978
Grüber, Heinrich K. E.	Deceased
Guéhenno, Jean	Oct. 1978
Haddow, Alexander John	26 Dec. 1978
Haekkerup, Peter	March 1979

Hall, Joseph Bates	4 June 1978
Halpern, Bernard	22 Sept. 1978
Hansen, Hellmut	Deceased
Harcourt, 2nd Viscount; William Edward Harcourt	Jan. 1979
Harms, Hans	Deceased
Harriman, E(dward) Roland	16 Feb. 1978
Hartmann, Wilhelm C. B.	Deceased
Hartnell, Sir Norman Bishop	8 June 1979
Helsby, Baron; Laurence Norman Helsby	Dec. 1978
Henrichs, Helmut	Deceased
Herlitz, Nils	9 Feb. 1978
Herzfeld, Karl Ferdinand	3 June 1978
Hill, Robert Charles	28 Nov. 1978
Hilton, Conrad Nicholson	3 Jan. 1979
Hitti, Philip Khuri	24 Dec. 1978
Hori, Shigeru	1979
Hou Youn	1977
Hoveyda, Amir Abbas	9 April 1979
Hudson, Sir William	12 Sept. 1978
Icaza Coronel, Jorge	26 May 1978
Ipekci, Abdi	1 Feb. 1979
Irvine, Rt. Hon. Sir Arthur James	15 Dec. 1978
John Paul I, His Holiness Pope (Albino Luciani)	28 Sept. 1978
Jooss, Kurt	June 1979
Jouhandeau, Marcel	7 April 1979
*Julia, Gaston Maurice	19 March 1978
Kadár, Ján	1 June 1979
Kahnweiler, Daniel-Henry	Jan. 1979
Kaliski, Div. Gen. Sylwester	16 Sept. 1978
Kapp, Edmond X.	29 Oct. 1978
Karavayeva, Anna Aleksandrovna	May 1979
Kardelj, Edvárd	10 Feb. 1979
Karlgren, Klas Bernhard Johannes	Nov. 1978
Kelantan, H.R.H. the Sultan of; Tuanku Yahya Petra ibni Al Marhum Sultan Ibrahim	29 March 1979
Keldysh, Mstislav Vsevolodovich	24 June 1979
Kendall, James Pickering	14 June 1978
Kenyatta, Jomo	22 Aug. 1978
Kenyon, Dame Kathleen Mary	24 Aug. 1978
*Kessel, Joseph	5 July 1979
*Khalatbary, Abbas Ali	Deceased
Kianpour, Gholam Reza	8 May 1979
*Kipping, Sir Norman Victor	June 1979
Kitagawa, Kazue	17 Nov. 1978
Klüver, Heinrich	Feb. 1979
Knowles, John Hilton	March 1979
Kock, Karin	Deceased
Koller, Simon	Nov. 1977
Kolman, Arnošt	26 Jan. 1979
Kotei, Maj.-Gen. Robert Ebenezer Abossey	26 June 1979
*Kowarski, Lew	31 July 1979
Krag, Jens Otto	22 June 1978
Krupkowski, Aleksander	1 May 1978
Kuhn, Ferdinand	17 Oct. 1978
Kukarkin, Boris Vasiliyevich	15 Sept. 1977
Kulakov, Fyodor Davidovich	17 July 1978
Kuo Mo-jo	12 June 1978
Kuryłowicz, Jerzy	28 Jan. 1978
Kuznetsov, Anatoli	13 June 1979
La Malfa, Ugo	March 1979
Lampert, Lieut.-Gen. James Benjamin	10 July 1978
Landré, Guillaume (Louis Frédéric)	Deceased
Lasswell, Harold Dwight	18 Dec. 1978
Leach, Bernard Howell	6 May 1979
Lehto, Reino Ragnar	Deceased
Leivo-Larsson, Tyyne	1 Aug. 1977
Lemaire, Maurice	20 Jan. 1979
Lima, Hermes	1 Oct. 1978
Lourie, Arthur	Oct. 1978
Lubin, Isador	6 July 1978
*MacDermott, Baron; John Clarke MacDermott	July 1979
MacDiarmid, Hugh	9 Sept. 1978
Macdonald, Rt. Hon. William Ross	Deceased
McIntyre, H.E. Cardinal James	16 July 1979
McKenzie, Bruce Roy	24 May 1978
McNeil, Sir Hector	30 Dec. 1978
Madariaga, Salvador de	14 Dec. 1978
Maguire, Conor A.	Deceased
Mahmoud Aly, Abdel Halem	18 Oct. 1978
*Maiden, Alfred	July 1979
Mallaby, Sir (Howard) George	Dec. 1978
Mallowan, Sir Max Edgar Lucien	19 Aug. 1978
Marconi, Mario	Deceased
*Marcuse, Herbert	29 July 1979
Maretskaya, Vera Petrovna	Aug. 1978
Marklund, Bror Hjalmar	18 July 1977
Marples, Baron; A. Ernest Marples	6 July 1978
Martinuzzi, Napoleone	Deceased
Massine, Léonide	17 March 1979
Mather, Kirtley F.	Deceased
Maudling, Rt. Hon. Reginald	14 Feb. 1979
Mead, Margaret	15 Nov. 1978
Mehta, Jivraj Narayan	7 Nov. 1978
Meir, Golda	8 Dec. 1978
Mendes, Francisco (Chico Té)	7 July 1978
Merritt, H. Houston	Jan. 1979
Messerschmitt, Willy	15 Sept. 1978
Mikoyan, Anastas Ivanovich	21 Oct. 1978
Mišković, Vojislav	Deceased
Monnet, Jean	16 March 1979
Moretti, Marino	6 July 1979
Morris of Borth-y-Gest, Baron; John William Morris	June 1979
Morton, John C. A. B.	11 May 1979
Morton, Rogers Clark Ballard	19 April 1979
*Mountbatten of Burma, 1st Earl; Admiral of the Fleet Louis (Francis Albert Victor Nicholas) Mountbatten	27 Aug. 1979
Moureu, Henri Bertrand Vincent	14 July 1978
Muir, Malcolm	30 Jan. 1979
Müller-Armack, Alfred	16 March 1978
Narayan, Shriman	3 Jan. 1978
Narita, Tomomi	9 March 1979
Nassiri, Gen. Ne'matollah	15 Feb. 1979
Natta, Guilio	2 May 1979
Navasqués y Ruiz de Velasco, Emilio de, Conde de Navasqués	10 March 1976
Nervi, Pier Luigi	9 Jan. 1979
Nesterov, Anatoliy Innokentiyevich	Feb. 1979
Nikodim, H.E. Metropolitan, Boris Georgiyevich Rotov	5 Sept. 1978
Novak, Grga	7 Sept. 1978
Oberth, Hermann Julius	Deceased
Ocampo, Victoria	Jan. 1979
Oittinen, Reino Henrik	1 March 1978
O'Neill, C. William	20 Aug. 1978
Orbán, Lászlo	17 Oct. 1978
Ortutay, Gyula	23 March 1978
Owe, Aage Willand	10 Jan. 1978
Page, Sir Denys Lionel	6 July 1978
Parandowski, Jan	26 Sept. 1978
Parodi, Alexandre	15 March 1979
Parsons, Sir Maurice Henry	24 July 1978
Parsons, Talcott	8 May 1979
Partridge, Eric Honeywood	1 June 1979
Paul VI, His Holiness Pope (Giovanni Battista Montini)	6 Aug. 1978
Persianinov, Leonid Semyonovich	Dec. 1978
Petrén, Bror Arvid Sture	13 Dec. 1976
Piasecki, Boleslaw	1 Jan. 1979
Pickford, Mary	29 May 1979
Pirenne, Comte Jacques	Deceased
Platt, Baron; Robert Platt	30 June 1978
Plumptre, Arthur Fitzwalter Wynne	Deceased
Pospelov, Pyotr Nikolayevich	Deceased
Pratt, James Davidson	July 1978
Prouvost, Jean	18 Oct. 1978
Pünder, Herman (Joseph)	Deceased
Rabot, Louis-Georges	20 July 1978
Rahimtoola, Sir Fazal Ibrahim	13 Dec. 1977
Ramanantsoa, Maj.-Gen. Gabriel	9 May 1979
Randolph, (Asa) Philip	May 1979
Raschid, M. A.	21 April 1978
Reddish, Sir Halford (Walter Lupton)	12 Oct. 1978
Rendel, Sir George William	May 1979
Renn, Ludwig	July 1979

OBITUARY

Rennert, Günther	31 July 1978
Renoir, Jean	Feb. 1979
Robbins, William Jacob	5 Oct. 1978
Rockefeller, John Davison, III	10 July 1978
Rockefeller, Nelson Aldrich	26 Jan. 1979
Röder, Franz-Josef	26 June 1979
Romero, José E.	Oct. 1978
Rothermere, 2nd Viscount; Esmond Cecil Harmsworth	11 July 1978
Royle, Sir Lancelot Carrington	19 June 1978
Rubayyi, Salem Ali	20 June 1978
Ruppel, Aloys (Leonhard)	11 July 1977
Salisbury, Sir Edward James	10 Nov. 1978
Samuel, 2nd Viscount; Edwin Herbert Samuel	14 Nov. 1978
Sawyer, Ralph Alanson	6 Dec. 1978
Schaus, Eugène	Deceased
Schwartz, Stanislav Semyonovich	12 May 1976
Shulelkin, Vasily Vladimirovich	25 April 1979
Siegbahn, Karl Manne Georg	Deceased
Silone, Ignazio	22 Aug. 1978
Sinclair of Cleeve, 1st Baron; Robert John Sinclair	March 1979
Skinner, Cornelia Otis	9 July 1979
Slessor, Marshal of the R.A.F. Sir John Cotesworth	13 July 1979
Sochava, Viktor Borisovich	29 Dec. 1978
Spicer, Sir John Armstrong	3 Jan. 1978
Stephens, Frederick James	9 Nov. 1978
Stone, Edward Durell	6 Aug. 1978
Straight, Whitney Williard	5 April 1979
Strakhov, Nikolay Mikhailovich	July 1978
Struycken, Antonie Arnold Marie	Dec. 1977
Su Chen-hua	1979
Suarez, Eduardo	19 Sept. 1976
Szénási, Géza	21 Feb. 1979
Szigeti, George	28 Nov. 1978
Sznajder, Edward	29 Oct. 1978
Taniguchi, Yoshiro	Feb. 1979
Tate, Allen	9 Feb. 1979
Tawes, J. Millard	25 June 1979
Telli Boubacar, Diallo	Deceased
Thorson, Hon. Joseph Thorarinn	5 July 1978
Tikhonov, Nikolay Semyonovich	8 Feb. 1979
Tomonaga, Sin-itiro	8 July 1979
Torre Nilsson, Leopoldo	8 Sept. 1978
Tréfouël, Jacques	11 July 1977
*Tugwell, Rexford Guy	July 1979
Tunney, James Joseph (Gene)	7 Nov. 1978
Vader, Arthur Pavlovich	25 May 1978
Velasco Ibarra, José María	April 1979
Villot, H.E. Cardinal Jean	9 March 1979
von Eckardt, Felix	11 May 1979
Vranckx, Alfons	1979
Wagner, Carl	10 Dec. 1977
Wakeley, Sir Cecil (Pembrey Grey)	May 1979
Wang Cheng	13 Aug. 1978
Warner, Jack L.	9 Sept. 1978
Wayne, John	11 June 1979
Weaver, Warren	24 Nov. 1978
Weston, Willard Garfield	22 Oct. 1978
Wetmore, Alexander	7 Dec. 1978
Weyerhaeuser, Frederick King	16 Sept. 1978
Widdemer, Margaret	14 July 1978
Williams, (Laurence Frederic) Rushbrook	1 Oct. 1978
Williams, Rt. Rev. Ronald Ralph	Feb. 1979
Woodward, Robert Burns	8 July 1979
Wrathall, John James	31 Aug. 1978
Wriston, Henry Merritt	Deceased
Young, Col. Sir Arthur Edwin	Jan. 1979
Youngdahl, Luther Wallace	21 June 1978
Yu Li-chin	25 Feb. 1979
Yu Pin, H.E. Cardinal Paul	16 Aug. 1978
Zimmermann, Adm. Armin	Deceased
Zondek, Hermann	July 1979
Zverev, Sergey Alekseyevich	Dec. 1978

OR TUAR)

THE INTERNATIONAL WHO'S WHO 1979-80

A

AALBERSE, Petrus Josephus Mattheus; Netherlands lawyer and politician; b. 1910, Leiden; m. Augusta I. Housz 1939; three s. three d.; ed. Gymnasium St. Aloysius and Univ. of Leiden; Sec. Building Industry Assen. 1942-47; Adviser, social orgs. 1947-62; mem. Wassenaar Town Council 1945-54; Sec. and later Pres. Landelijk Comité Rechtszekerheid 1947-52; Sec. Catholic Social Advice and "Raad van Overleg" 1955-62; Pres. Catholic People's Party 1962-68; mem. Second Chamber of States-Gen. 1963-69; mem. State Council 1969-; Commdr. Order of Gregory the Great, Commdr. Order of Orange Nassau. *Leisure interests:* books, television, golf. *Address:* Ruychrocklaan 370, The Hague, Netherlands. *Telephone:* 070-248677.

AARS, Knut; Norwegian diplomatist; b. 14 July 1918, Oslo; s. of Jacob and Anna (née Broedsgaard) Aars; m. Gerd Sandvik 1943; one s. one d.; ed. Oslo Univ.; Lawyer, Deputy Judge 1941-44; Norwegian Legation, Stockholm 1944-45, Lisbon 1948-50; Sec. Ministry of Foreign Affairs 1945-48; Washington 1950-52; Chief, Div. for NATO Affairs, Ministry of Foreign Affairs 1952-55; Deputy Perm. Rep. to North Atlantic Council 1955-58; Counsellor, London 1958-62; Amb. to Iran and Pakistan 1962-65, also accred. to Afghanistan 1964-66; Special Adviser to Ministry of Foreign Affairs 1966-70; Perm. Rep. of Norway to North Atlantic Council 1970-71; mem. Norwegian Inst. of Int. Affairs 1972-73; Ministry of Foreign Affairs 1973-; Amb. to Argentina, Paraguay and Uruguay 1974-. *Leisure interest:* mountaineering. *Address:* Norwegian Embassy, Esmeralda 909, 3° piso, Buenos Aires, Argentina.

AARVIK, Egil; Norwegian politician; b. 12 Dec. 1912, Borsa; s. of Julius and Louise (née Lie) Aarvik; m. Anna C. Grove-Nielsen 1938; three s. one d.; Sec. Norwegian Lutheran Inner Mission 1934-37, Danish Inner Mission 1937, Stavanger Inner Mission 1940-46; journalist on daily newspaper Dagsavisa, Trondheim 1947-50, Editor 1950-55; Editor Folkets Framtid (organ of Christian People's Party) 1948-65; mem. Nat. Bd. of Norwegian Blue Cross 1958-, Chair. 1960-; mem. Strinda Municipal Council 1952-56; mem. Storting for Oslo 1961-65, 1969-, Chair. Social Affairs Cttee. 1961-65; Minister of Social Affairs 1965-70; Pres. Lagting 1974-; Vice-Chair. Norwegian Nobel Cttee. 1974-; Christian People's Party. *Address:* Tollef Gravs v. 127, 1342 Jar, Norway. *Telephone:* 248325 (Home).

ABAKANOWICZ, Magdalena; Polish artist and weaver; b. 20 June 1930, Falenty, nr. Warsaw; ed. Warsaw Acad. of Fine Arts; mem. of ZAIKS assen. of authors; work includes tapestry, screen structures, space forms of knotted, plaited and woven fibres; paintings with collage and gouache; teacher, Higher School of Fine Arts, Poznań 1965-; Dr. h.c. (Royal Acad. of Arts), London 1974; Minister of Culture and Art Prize 1965; State Prize, 3rd Class 1965, 2nd Class 1972; Gold Medal, VIII Int. Biennale of Arts, São Paulo Gold Medal, FSP 1967 Silver Medal, 8th Festival of Fine Arts, Warsaw 1978 and others; Silver Cross of Merit. *Works:* Structural Gobelin for North Brabant Provincial Office, Netherlands; Gobelin for Public Library, Stuttgart, Fed. Repub. of Germany; Sculpture-Space Form, Elbląg, Poland. One-woman exhbns.: Gallery Dautzenberg, Paris 1962, Zachęta Museum, Warsaw 1965, Public Museum, Oslo 1967, Museum of Arts, Zürich 1968, Frans Hals Museum, Haarlem 1969, Public Museum, Rotterdam, Łódź 1978. *Collections:* Museum of Modern Art, New York; Stedelijk Museum, Amsterdam; Museu de Arte Contemporanea, São Paulo; Frans Hals Museum, Haarlem; Musée des Beaux-Arts, Chaux-de-Fonds, Switzerland; museums in Oslo, Zürich and Poznań. *Address:* Al. Stanów Zjednoczonych 16 m. 53, 03-947 Warsaw, Poland.

ABALKHAIL, Mohamed Ali, B.A.; Saudi Arabian government official and financial executive; b. 1935, Buraida; m. 1966; one s. one d.; ed. Cairo Univ.; began career as Asst. Dir. of Office of Minister of Communications, later Dir.; Dir.-Gen. of Inst. of Public Admin.; Deputy Minister of Finance and Nat. Econ., then Vice-Minister, Minister of State, Minister for Finance and Nat. Econ. 1975-; Chair. of Bd., Saudi Int. Bank, London, Public Investments Fund, Inst. of Public Admin., Saudi Industrial Devt. Fund; Chair. Bd. of Govs. Islamic Devt. Bank; Chair. Saudi Devt. Fund (overseas devt. assistance fund); mem. Supreme Consultative Council of Petroleum and Minerals, Royal Comm. on Jubail and Yanbu Industrial Estates; mem. Bd., Saudia-Saudi Airlines Corpn., Petroleum and Minerals Corpn. (PETROMIN); decorations from Belgium, Egypt, France, Niger, Pakistan, Saudi Arabia, Sudan. *Leisure interests:* reading, some sports. *Address:* Ministry of Finance and National Economy, Riyadh, Saudi Arabia. *Telephone:* 39966.

ABBADO, Claudio; Italian conductor; b. 26 June 1933, Milan; s. of Michelangelo Abbado and Maria Carmela Savagnone; m. Gabriella Cantaluppi; two s. one d.; ed. Conservatorio Giuseppe Verdi, Milan, and Musical Acad. in Vienna; guest conductor of principal orchestras in Europe and America; conductor at principal festivals and opera houses since 1961; Perm. Conductor 1968, Musical Dir. 1971, Artistic Dir. 1976, Scala Theatre, Milan; Principal Conductor Vienna Philharmonic Orchestra 1971; Principal Guest Conductor London Symphony Orchestra 1972, Principal Conductor (from Sept. 1979); Music Dir. European Community Youth Orchestra 1978-; numerous guest appearances; Sergei Kussewitzky Prize, Tanglewood 1958, Dmitri Mitropoulos Prize, New York 1963, Mozart-Medaille of the Mozart Gemeinde, Vienna 1973; since 1965 yearly recipient of int. prizes for recordings (Diapason, Deutscher Schallplattenpreis, Grand Prix du Disque, etc.). *Leisure interests:* literature, painting, theatre, sports. *Address:* Piazzetta Bossi 1, 20121 Milan, Italy.

ABBAS, Ferhat; Algerian politician; b. 24 Aug. 1899, Taker, Constantine; ed. Algiers Univ.; fmrly. a chemist at Sétif; took part in organization of the Algerian People's Union 1938; published "Manifesto of the Algerian People" 1943; founded Amis du Manifeste et de la Liberté (AML) 44 and took part in the formation of the Union Démocratique du Manifeste Algérien (UDMA) 1946; elected representative to French Constitutional Ass. 1946, later member of French Union Ass.; elected to Algerian Ass. 1948 and 1954; Leader of UDMA 1946-56; joined Nat. Liberation Front (FLN) 1955; mem. FLN delegation to 11th Gen. Ass. of UN 1957; leader del. to North African Conf., Tangier 1958; Prime Minister of "Provisional Government of the Algerian Republic" (in Tunisia) 1958-61; Pres. of the Chamber of the independent state of Algeria 1962-63; under detention July 1964-June 1965. *Publications:* Le jeune algérien 1931, La nuit coloniale 1963. *Address:* Konba, Algiers, Algeria.

ABBOTT, Hon. Douglas Charles, P.C., Q.C., B.C.L., LL.D.; Canadian lawyer; b. 29 May 1899, Lennoxville, Quebec; s. of Lewis Duff Abbott and Mary J. Pearce; m. Mary W. Chisholm 1925; two s. one d.; ed. Bishop's Coll., Lennoxville, McGill Univ., and Dijon Univ. (France); M.P. 1940-54; Parl. Asst. to the Minister of Finance 1943-45, to Minister of Nat. Defence 1945; Minister of Nat. Defence for Naval Services, later Minister of Nat. Defence 1945; Minister of Finance 1946-54; Puisne Justice, Supreme Court of Canada 1954-73; Chancellor Bishop's Univ. 1958-68. *Leisure interests:* fishing and curling. *Address:* 124 Springfield Road, Ottawa, Ontario 2, Canada. *Telephone:* 745-6250.

ABBOTT, Very Rev. Eric Symes, K.C.V.O., M.A.; British ecclesiastic; b. 26 May 1906; ed. Nottingham High School and Jesus Coll., Cambridge; Curate, St. John's, Smith Square, London, S.W.1 1930-32; Chaplain, King's Coll., London 1932-36, Lincoln's Inn 1934-36; Warden, Lincoln Theological Coll. 1936-45; Dean, King's Coll., London 1945-55; Warden, Keble Coll., Oxford 1955-60; Dean of Westminster 1959-74; Chaplain to H.M. The King 1948-52, to H.M. The Queen 1952-60, Extra Chaplain to H.M. The Queen 1974-; Hon. Fellow Keble Coll., Oxford, and Jesus Coll., Cambridge; Hon. D.D. (London, Lambeth); Freeman of Westminster 1973. *Address:* 17 Vincent Square, London, S.W.1., England.

ABBOUD, A. Robert, M.B.A., LL.B.; American banker; b. 29 May 1929, Boston, Mass.; s. of Alfred and Victoria Abboud; m. Joan Grover Abboud 1955; one s. two d.; ed. Harvard Coll., Harvard Law School, Harvard Business School; Asst. Cashier, Int. Dept., First Nat. Bank of Chicago 1960, Asst. Vice-Pres. Int. 1962, Vice-Pres. 1964, Senior Vice-Pres. 1969, Exec. Vice-Pres. 1972, Vice-Chair. 1973, Deputy Chair. of Board 1974-75, Chair. of Board Dec.

1975–. *Publications:* Introduction of U.S. Commercial Paper in Foreign Markets —Premature and Perilous? 1970, A Proposed Course for U.S. Trade and Investment Policies 1971, A Proposal to Help Reverse the Narrowing Balance in the U.S. Balance of Trade 1971, The Outlook for a New Monetary System 1971, Opportunities for Foreign Banks in Singapore 1971, The International Competitiveness of U.S. Banks and the U.S. Economy 1972. *Address:* First National Bank of Chicago, One First National Plaza, Chicago, Ill. 60670 (Office); High Point Farm, Route 1, Box 209, Algonquin, Ill. 60102, U.S.A. (Home). *Telephone:* (312) 732-8043 (Office); (312) 658-4808 (Home).

ABBOUD, Gen. Ibrahim; Sudanese army officer and politician; b. 26 Oct. 1900; ed. Gordon Coll., Khartoum, and Military Coll., Khartoum; commissioned 1917, joined Sudan Defence Force 1925, served Eritrea, Ethiopia and North Africa in Second World War; Deputy C.-in-C. Sudanese Army 1954-56, C.-in-C. 1956-64; Pres. Supreme Council of the Armed Forces, Prime Minister and Minister of Defence 1958-64. *Address:* Suakin, Sudan.

ABDALLAH, Ahmed; Comoros politician; b. c. 1919. Former businessman; Rep. of the Comoros in French Senate 1959-72; fmr. Rep. of Anjouan in Comoros Chamber of Deputies; Pres. of Govt. Council 1972-73, of Govt. 1973-75; Leader of Union démocratique des Comoros 1974, Parti pour l'Indépendence et l'Unité des Comoros 1974-75; elected Head of State July 1975; Pres. of the Comoros July-Aug. 1975, concurrently Minister of Justice, Keeper of the Seals; overthrown in coup Aug. 1975; after fall of Govt. of Ali Soilih in coup May 1978, became Pres. of Fed. and Islamic Repub. of the Comoros; also Pres. of Politico-Military Directory, Minister of Justice and the Civil Service May 1978-. *Address:* Office du Président, Moroni, Grand-Comore, République des Comores.

ABDEL MEGUID, Ahmed Esmat, PH.D.; Egyptian diplomatist; b. 22 March 1923, Alexandria; m. Eglal Abou-Hamda 1950; three s.; ed. Faculty of Law, Alexandria Univ. and Univ. of Paris; Attaché and Sec., Egyptian Embassy, London 1950-54; Head British Desk, Ministry of Foreign Affairs 1954-56, Asst. Dir. Legal Dept. 1961-63, Head Cultural and Technical Assistance Dept. 1967-68; Counsellor, Perm. Mission to European Office of UN, Geneva 1957-61; Minister Counsellor, Egyptian Embassy, Paris 1963-67; Official Spokesman of Govt. and Head Information Dept. 1968-69; Amb. to France 1969-70; Minister of State for Cabinet Affairs 1970-72; Perm. Rep. to UN 1972-; Chair. Cairo Preparatory Conf. for Geneva Peace Conf. 1977-; mem. Int. Law Assn., took part in UN confs. on the Law of the Sea 1959, on Consular Relations 1963 and on the Law of Treaties 1969; Ordre national du Mérite 1967, Grand Croix 1971, 1st Class Decoration, Arab Repub. of Egypt 1970. *Publications:* several articles in Revue egyptienne de droit international. *Address:* Permanent Mission of Egypt to the United Nations, 36 East 67th Street, New York, N.Y. 10021, U.S.A. *Telephone:* 879-6300.

ABDEL-RAHMAN, Aisha, PH.D. (*pen name* **Bint el-Shati**); Egyptian writer and university professor; ed. Cairo Univ.; Asst. Lecturer, Cairo Univ. 1939-; Literary Critic Al Ahram 1942-; Inspector in Arabic Languages and Literature, Ministry of Educ. 1942; Lecturer in Arabic, Ain Shams Univ. 1950-57, Asst. Prof. 1957-62, Prof. of Arabic Literature and Chair., Univ. Coll. for Women 1962–; mem. Higher Council of Arts and Letters 1960-; State Prize 1936, Acad. of Arabic Language Award for Textual Studies 1950, for Short Story 1954. *Publications:* Rissalet el Ghofram by Abul Ala'a 1950, New Values in Arabic Literature 1961, The Koran: Literary Interpretation 1962, Ibn Seeda's Arabic Dictionary 1962, Contemporary Arab Women Poets 1963; six books on illustrious women of Islam; two novels; four vols. of short stories. *Address:* 13 Agam Street, Heliopolis, Cairo, Egypt.

ABDEL-RAHMAN, Ibrahim Helmi, PH.D.; Egyptian United Nations Official; b. 5 Jan. 1919; ed. Univs. of Cairo, London, Edinburgh, Cambridge and Leiden; Lecturer in Astronomy and Astrophysics, later Asst. Prof., Cairo Univ. 1942-54; Sec.-Gen. Council of Ministers 1954-58; Dir. Egyptian Atomic Energy Comm. 1954-59; mem. and Sec.-Gen. Nat. Science Council 1956-58; mem. Nat. Planning Comm. 1957-60; Dir. Inst. of Nat. Planning 1960-63; UN Commr. for Industrial Devt. 1963-66; Exec. Dir. UN Industrial Devt. Org. (UNIDO) 1967-74; Senior Adviser to Prime Minister 1975, 1978; Minister of Nat. Planning and Admin. Reform 1975-76; mem. Egyptian Del. UNESCO Gen. Conf. 1948, 1952, 1954. *Address:* c/o Council of Ministers, Cairo, Egypt.

ABDESSALAM, Belaid; Algerian politician; b. July 1928, Dehemcha; fmr. Hon. Pres. Union Générale des Etudiants Musulmans Algériens (UGEMA); Instructor Front de Libération Nationale (FLN) School, Oujda; Political Adviser in Cabinet of M. Ben Khedda 1961; in charge of Econ. Affairs, FLN Provisional Exec. 1962; Pres., Dir.-Gen. Soc. Nat. pour la Recherche, la Production, le Transport, la Transformation et la Commercialisation des Hydrocarbures (SONATRACH) 1964-66; Minister of Industry and Energy 1965-77, of Light Industry 1977-79; Pres. of Special Econ. Comm. of Cen. Cttee. of FLN 1979-; Chair. Council Org. of Arab Petroleum Exporting Countries 1974. *Address:* c/o Front de Libération Nationale, place Emir Abdelkader, Algiers, Algeria.

ABDOH, Djalal, LL.D.; Iranian diplomatist; b. 1909, Teheran; s. of Mohamad and Batool Abdoh; m. Sedighe Etemad 1938; three d.; ed. Teheran and Paris Univs. Asst. Dir. Ministry of Justice 1937-39; Public Prosecutor, Court of Govt. Employees, Teheran 1941-43; Dir.-Gen. Ministry of Justice 1943-44; mem. Parl. 1944-49; mem. Iranian Del. to UN 1946-53, 1954-59; Deputy Perm. Rep. Iranian Mission to UN 1949-53; Dir.-Gen. of Political Affairs, Ministry of Foreign Affairs 1954-55; Amb. and Perm. Rep. to UN 1955-59; Minister of Foreign Affairs 1959; UN Plebiscite Commr., British Cameroons 1959-61; Roving Amb. of Iran 1961-62; Prof. Int. Law and Pol. Science, Teheran Univ. 1961; Admin. UN Temporary Exec. Authority (UNTEA, West New Guinea) Oct. 1962-May 1963; Amb. to India 1965-68, to Italy 1968-72; Man. Dir. Iranian Bankers' Assn. 1972-78; mem. Currency and Credit Council 1972-78, Perm. Court of Arbitration 1946-78; Pres. Iranian Assn. for the UN 1972, Int. Law Assn. Iranian Branch 1973. *Publications:* Civil Procedure of Iran, Comparative Law, International Private Law, Eléments psychologiques dans les contrats, Le ministère public, Le régime pénitentiaire en Iran, The Political Situation in the Middle East (Persian), The Political Situation in Africa (Persian).

ABDUL BAQI, Murtada Said; Iraqi politician; b. 1941, Ramadi; ed. Higher Teachers' Training Inst. and Univ. of Baghdad, Coll. of Law and Politics; School teacher, Fallouja 1966-67; mem. Revolutionary Command Council 1968; Chair. Kurdish Affairs Bureau and Peace Cttee. 1968; mem. World Peace Cttee.; Minister of Labour 1970-71, of the Economy June-Oct. 1971, of Foreign Affairs 1971-74; Amb. to U.S.S.R. 1974-. *Address:* c/o Ministry of Foreign Affairs, Baghdad, Iraq.

ABDUL JAMIL BIN ABDUL RAIS, Tan Sri, P.M.N., P.J.K.; Malaysian diplomatist; b. 14 Jan. 1912, Kuala Kangsar, Perak; s. of Abdul and Saodah Rais; m. Norhimah Abdul Jamil 1936; four s. seven d.; ed. Clifford School and Oxford Univ., England; joined Admin. Service 1932; State Sec., Perlis 1951-52; State Financial Officer, Selangor 1954-55, State Sec. 1956; Chief Minister, State of Selangor 1957-59; Deputy Sec. to the Treasury 1959-61; Sec. to the Treasury (Federal) 1961-64; Chief Sec. to Malaysian Govt., Head of Home and Foreign Service, Sec. to the Cabinet 1964-67; High Commr. for Malaysia in U.K. 1967-1971, concurrently Amb. to Ireland; Chair. Penang Port Comm., Nat. Family Planning Board; Nat. Vice-Chair. Malaysian Red Crescent Soc.; fmr. Chair. Malaysian Boy Scout Assn.; fmr. Pres. Malaysian Lawn Tennis Assn. and other sports assns. *Leisure interests:* reading, walking. *Address:* Jamnor, 32 Jalan Kia Beng, Kuala Lumpur, Malaysia. *Telephone:* 203369.

ABDUL RAHMAN PUTRA, Tunku (Prince), D.M.N., C.H.; Malaysian politician; b. 8 Feb. 1903; m. 3rd Puan Sharifah Rodziah binti Syed Alwi Barakbah 1939; one s. one d. (both by 1st wife); one s. three d. (all adopted); ed. Alor Star, Bangkok, Penang, St. Catharine's Coll., Cambridge, and Inner Temple, London; joined Kedah State Civil Service 1931, District Officer; appointed to Exec. and Legislative Councils, Malaya, as unofficial mem. 1952; Leader Fed. Legislative Council; Chief Minister and Minister for Home Affairs 1955; first Prime Minister and Minister of External Affairs, Malaya 1957-63, Malaysia 1963-70, also Minister of Culture, Youth and Sports at various times; leader United Malay Nat. Org. 1952-70; Chancellor, Univ. of Malaya 1962; Sec.-Gen. Islamic Conf. 1969-72; Chair. Star Publs., Penang, Muslim Welfare Org. (PERKIM); several hon. degrees and foreign decorations. *Publications:* Mahsuri (play about Malaya) 1941, (filmed 1958); Raja Bersiong (a story of his ancestors) (filmed 1966), Looking Back (autobiography and history of Malaysia). *Leisure interests:* golf, football, walking, swimming, racing, motor-boating, photography, collecting ancient weapons, particularly the Malay Kris. *Address:* 61 Ayer Road, Penang, Malaysia. *Telephone:* 65970 (Home).

ABDULGANI, Roeslan; Indonesian diplomatist, civil servant and politician (retd.); b. 1914, Surabaya, East Java; s. of Mr. Abdulgani and Siti Murad; m. Sihwati Nawangwulan 1938; two s. three d.; ed. Teacher Training Coll., Surabaya; active in Nat. Youth Movement seeking independence from Dutch; active in anti-Japanese underground during Japanese occupation; Editor Bakti, East Java 1945; Sec.-Gen. Ministry of Information 1947-53; Sec.-Gen. Ministry of Foreign Affairs 1953-56; Del. to UN 1951, 1956, 1966; Sec.-Gen. Afro-Asian Conf., Bandung 1955; headed del. to Suez Conf. 1956; Minister of Foreign Affairs 1956-57; mem. Constituent

Assembly 1957-; Vice-Chair. Nat. Council 1957-59; Vice-Chair. Supreme Advisory Council 1959-62; Co-ordinating Minister and Minister of Information 1963-65; Deputy Prime Minister for Political Institutions 1966; Perm. Rep. to UN 1967-71; Lecturer Monash Univ. and other Australian univs. 1972; Research Fellow Prince Bernhard Fund, Netherlands, U.K. 1973; Vice-Pres. 24th UN Gen. Ass. 1969; Consultant, Nat. Defence and Security Council of Indonesia; Consultant on problems of mass media, UNESCO, Paris 1977; Chair. Team of advisers to Pres. on State Ideology Pancasila, 1978; several hon. degrees; Indonesian medals; mem. PNI (Indonesian Nat. Party). *Publications:* In Search of Indonesian Identity, The Bandung Spirit, Indonesian and Asian-African Nationalism, Pantjasila: The Prime Mover of the Indonesian Revolution, Hero's Day: In Memory of the Fighting in Surabaya on 10 November 1945, The Hundred Days in Surabaya that Shook Indonesia, Impact of Utopian-Scientific and Religious Socialism on Indonesian Socialism, 25 Years: Indonesia in the UN, Personal Experiences During the Japanese Occupation, and others. *Leisure interests:* walking, reading, classical music. *Address:* 11 Jalan Diponegoro, Jakarta, Indonesia.

ABDULGHANI, Abdul Aziz, M.A. (ECON.); Yemeni economist and politician; b. 4 July 1939, Haifan, Yemen Arab Repub.; s. of Abdulghani Saleh and Tohfa Moqbel; m. Aceya Hamza 1966; four s. one d.; ed. Colorado Coll. and Colorado Univ., U.S.A.; Minister of Health 1967-68, of Economy 1968-69, 1970-71; Chair. Tech. Office, Bd. of Planning 1969-70; Gov. Central Bank of Yemen 1971-75; Prime Minister Jan. 1975-. *Leisure interests:* swimming, hiking. *Address:* P.O. Box 38, Sana'a, Yemen Arab Republic. *Telephone:* 2116.

ABDULLA OSMAN DAAR, Aden; Somali businessman and politician; b. 1908, Beledwin; ed. Govt. School, Somalia; served in Italian Admin. 1929-41; joined Somali Youth League 1944, Leader 1953, Pres. 1954-56, 1958-59; Pres. Nat. Ass. 1956-60, Constituent Ass. 1960; Pres. Somali Repub. 1961-67; Deputy to Nat. Ass. 1967-69; detained following coup 1969, released 1973. *Address:* c/o Government Offices, Mogadishu, Somalia.

ABDULLAH, Sheikh Mohammad; Indian politician; b. 5 Dec. 1905, Soura, Srinagar, Kashmir; s. of Sheikh Mohammad Ibrahim; m. Akbar Jahan 1933; three s. two d.; ed. Kashmir, Lahore and Aligarh (U.P.); founder of Kashmir Muslim Conf., later Kashmir Nat. Conf., for representative govt. in Kashmir 1938; Pres. All-India States People's Conf. 1946; sentenced to 9 years' imprisonment for leading peoples of Jammu and Kashmir State in struggle against Maharajah of Kashmir for constitutional govt. and civil liberties Aug. 1946 (sentence not carried out in full); Head of Interim Govt. Nov. 1947; mem. Indian Del. to UN Jan. 1948; Prime Minister of Jammu and Kashmir 1948-53; mem. Indian Constituent Ass. 1949; in detention 1953-58, 1958-64, 1965-68; in exile 1971-72; Chief Minister of Jammu and Kashmir 1975-77, July 1977-; Leader State Congress Party 1975-77, Regional Party March 1977-. *Leisure interest:* gardening. *Address:* Secretariat, Srinagar (Office); 10 Maulana Azad Road, Srinagar, Kashmir (Home). *Telephone:* 3809.

ABDULLAH BIN ALI, Datuk; Malaysian diplomatist; b. 31 Aug. 1922, Johore; m. Datin Badariah binti Haji Abdul Aziz; two s. two d.; ed. Raffles Coll., Singapore, Australian Nat. Univ., Canberra; Johore civil service 1954-56, Malayan civil service 1956; joined foreign service 1957; served in India, Switzerland, Australia, Thailand, Ethiopia, Morocco; between overseas appointments served as Nat. Sec. of Assen. of S.E. Asia, Chief of Protocol and Deputy Sec.-Gen. (Admin. and Gen. Affairs) in Foreign Ministry; attended numerous int. confs. as mem. of Malaysian dels., incl. Gen. Ass. of UN in New York; High Commr. to Singapore 1971-75; Amb. to Fed. Repub. of Germany 1975; High Commr. to U.K. Sept. 1975-; Dato Paduka Mahkota Johore (Order of Crown of Johore), Kesatria Mangku Negara (Officer grade of Order of Chivalry of Malaysia), Order of Sacred Heart (Japan), Bintang Jasa (Indonesia). *Leisure interests:* tennis, golf, swimming, ornithology. *Address:* High Commission of Malaysia, 45 Belgrave Square, London, SW1X 8QT, England. *Telephone:* 01-245 9221.

ABDULLAH BIN MOHD SALLEH, Tan Sri, B.A.; Malaysian petroleum executive and fmr. civil servant; b. 24 June 1926, Malacca; ed. High School, Malacca, Malay Coll., Kuala Kangsar, Univ. of Malaya in Singapore; posts in Admin. and Diplomatic Service 1955-71; Sec.-Gen. Ministry of Agric. and Fisheries 1972; Dir.-Gen. Public Service Dept. 1974; Chief Sec. to Govt. of Malaysia, Sec. to the Cabinet, Head of the Civil Service 1976-78; Chair. and Chief Exec. PETRONAS (Nat. Petroleum Co. of Malaysia) 1979-. *Address:* PETRONAS, 136 Jalan Pudu, Kuala Lumpur (Office); 21 Jalan Setia Jaya, Damansara Heights, Kuala Lumpur, Malaysia (Home).

ABE, Isao, B.A.; Japanese diplomatist; b. 22 Nov. 1914, Tokyo; s. of Tadashi Abe; m. Tessie Yasuko Miyazaki 1948; one d.; ed. Tokyo Imperial Univ.; joined Diplomatic Service 1940; Lecturer, Tokyo Univ. 1953-56; served Embassies in Italy 1956-58; Switzerland 1958-61; mem. Perm. Mission to UN 1965-70; Amb. to Belgium and Luxembourg and Perm. Rep. to EEC 1971-76; Perm. Rep. to UN 1976-. *Address:* Permanent Mission of Japan to the United Nations, 740 Park Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* 744-2523.

ABE, Kobo; Japanese novelist and playwright; b. 7 March 1924, Tokyo; m. 1947; one d.; ed. Tokyo Univ; Post-War Literature Prize 1950, 25th Akutagawa Prize 1951, Kishida Prize for Drama 1958, Yomiuri Literary Prize 1962. *Publications:* Owarishi Michino Shirubeni (The Road Sign at the End of the Road), Akai Mayu (Red Cocoon) 1949, Kabe-S. Karumashi No Hanzai (The Crimes of S. Karma, Esq.) 1951, Kiga Domei (Hunger Union) 1954, Seifuku and other plays (The Uniform) 1955, Doreigari (Hunt for a Slave) 1955, Kemonotachi wa Kokyo o Mezasu (Animals are Forwarding to Their Natives) 1957, Dai Yon Kanpyoki (The Fourth Unglacial Period) 1959, Yurei wa Kokoniiru (Here is a Ghost) 1959, Ishi no Me (Eyes of Stone) 1960, Suna no Onna (The Woman in the Dunes) 1962, Tanin no Kao (The Face of Another) 1964, Omaenimo Tsumi Ga Aru (You are Guilty, Too) 1965, Enomoto Buyo 1965, Moetsukita Chiza (The Ruined Map) 1969, Bo ni natta otoko (The Man Who Became a Stick) 1969, Inter Ice Age 4 1970, Mihitsu no Koi (Premeditated Act of Uncertain Consequences) 1971, Gaido Book (Guide Book) 1971, Hoko otoko (The Box Man) 1973, Ai no Megane wa iromegane (Love's Spectacles Are Coloured Glass) 1973, Midoriiro no stocking (Green Stocking) 1974, Ue 1975, Warau Thuki (Smiling Moon) 1975. *Address:* 1-22-10, Wakaba Cho, Chofu City, Tokyo, Japan. *Telephone:* 03-300-3833.

ABE, Shintaro; Japanese journalist and politician; mem. House of Reps. 1958-; Private Sec. to Prime Minister Nobusuke Kishi; fmr. Deputy Sec.-Gen. Liberal-Democratic Party, fmr. Vice-Pres. LDP Diet Policy Cttee.; Minister of Agriculture and Forestry 1974-76; Chief Cabinet Sec. 1977-78. *Address:* c/o Liberal-Democratic Party, 7, 2-chome, Hirakawacho, Chiyoda-ku, Tokyo, Japan.

ABEL SMITH, Sir Alexander, Kt., T.D., J.P.; British merchant banker and business exec. (retd.); b. 18 Sept. 1904, London; s. of Lieut.-Col. Francis Abel Smith, D.L. and Madeline St. Maur Seymour; m. 1st Elizabeth Morgan 1936 (died 1948) 2nd Lady (Henriette) Palmer, née Cadogan (Lady-in-Waiting to H.M. Queen Elizabeth II) 1953; two s. two d.; ed. Eton and Magdalen Coll., Oxford; Military Service 1939-45, retd. with rank of Brig.; Dir. J. Henry Schroeder Wagg & Co. Ltd. 1947-67; Chair. Provident Mutual Life Assurance Assen. 1967-74; Dir. other companies; Deputy Chair. Export Council for Europe 1964-69; Deputy Chair. Duke of Edinburgh's Award Scheme 1967-; Legion of Merit (U.S.A.) 1945, Kt. Order of Dannebrog (Denmark) 1964. *Leisure interests:* shooting and fishing. *Address:* Old Rectory, Quenington, Cirencester, Gloucestershire, England. *Telephone:* Coln St. Aldwyns 231.

ABELSON, Philip Hauge, PH.D.; American physicist and editor; b. 27 April 1913, Tacoma, Wash.; s. of Ole Andrew and Ellen Hauge Abelson; m. Neva Martin 1936; one d.; ed. Washington State Coll. and Univ. of California at Berkeley; Asst. Physicist, Dept. of Terrestrial Magnetism, Carnegie Inst. of Washington 1939-41, Staff mem. (of Dept.) 1946-53, Dir. Geophysical Lab. 1953-71; Pres. Carnegie Inst. of Washington 1971-; Principal Physicist and Civilian-in-Charge, Naval Research Lab. Branch, Navy Yard, Philadelphia 1941-46; Co-Editor, Journal of Geophysical Research 1959-65; Editor, Science 1962-; mem. Nat. Insts. of Health Biophysics and Biophysical Chemistry Study Section 1956-59, Gen. Advisory Cttee., to Atomic Energy Comm. 1960-63, Cttee. on Science and Public Policy of Nat. Acad. of Sciences 1962-63; Consultant to Nat. Aeronautics and Space Admin. 1960-63; mem. N.A.S., A.A.A.S., American Philosophical Soc. and many other learned socs.; Pres. American Geophysical Union 1972-74, Int. Union of Geological Sciences 1972-76; Hon. D.Sc. (Yale) 1964, (Southern Methodist Univ.) 1969, (Tufts Univ.) 1976; D.H.L. (Univ. of Puget Sound) 1968; U.S. Navy Distinguished Civilian Service Medal 1945, Physical Sciences Award, Washington Acad. of Sciences 1950, Distinguished Alumnus Award, Washington State Univ. 1962, Hillebrand Award, Chemical Soc. of Washington 1962, Modern Medicine Award 1967, Joseph Priestley Award 1973, Kalinga Prize for Popularization of Science 1973, American Medical Assen. Scientific Achievement Award 1974; work includes identification of uranium fission products 1939-40 co-discovery of Neptunium 1940, separation of uranium isotopes 1943, biosynthesis in micro-organisms 1953, amino acids in fossils 1955, fatty acids in rocks 1956. *Publications:* author: Energy for Tomorrow 1975; co-author: Studies in Biochemistry in Escherichia coli 1955; editor: Research in Geo-

chemistry vols. 1 and 2 1959, 1967, Energy: Use, Conservation and Supply 1974, Food: Politics, Economics, Nutrition, and Research 1975, Materials: Renewable and Nonrenewable 1976. *Address:* Carnegie Institution of Washington, 1530 P Street, N.W., Washington, D.C. 20005, U.S.A. *Telephone:* 202-387-6400.

ABERCONWAY, 3rd Baron, of Bodnant; **Charles Melville McLaren;** British business executive; b. 16 April 1913; ed. Eton Coll., and New Coll., Oxford; Barrister, Middle Temple 1937; Army service 1939-45; fmr. Chair. John Brown & Co. Ltd., Pres. July 1978-; Sheepbridge Engineering Ltd., English China Clays Ltd.; Dir. Westland Aircraft Ltd.; Deputy Chair. Sun Alliance and London Insurance Co.; Dir. Nat. Westminster Bank Ltd.; Pres. Royal Horticultural Soc. 1961-. *Address:* 25 Egerton Terrace, London, S.W.3, England; and Bodnant, Tal-y-cafn, North Wales.

ABERCROMBIE, Nigel James, D.PHIL.; British free-lance writer, b. 5 Aug. 1908, Satara, India; s. of late Lieut.-Col. A. W. Abercrombie and Ethel Emma Abercrombie (née Gordon); m. Dorothy Maud Elisabeth Brownlees 1931; one s. one d.; ed. Haileybury and Oriel Coll., Oxford; Lecturer in French, Magdalen Coll., Oxford 1931-36; Prof. of French and Head of Modern Languages Dept., Univ. Coll., Exeter 1936-40; Secretary's Dept., Admiralty 1940-62; Cabinet Office 1962-63; Sec.-Gen. Arts Council of Great Britain 1963-68, Chief Regional Adviser, Arts Council of G.B. 1968-73; Paget-Toynbee Prize 1934. *Publications:* The Origins of Jansenism 1936, Saint Augustine and French Classical Thought 1938, Life and Work of Edmund Bishop 1959, The Arts in South-East England 1974, Artists and Their Public 1975, contributor Times Anthology of Detective Stories 1972, New Stories I 1976, Essays on the Religious History of Sussex 1979. *Leisure interests:* European literature and travel. *Address:* 32 Springett Avenue, Ringmer, Lewes, Sussex, England. *Telephone:* Ringmer 813029.

ABERNATHY, Rev. Ralph David; American clergyman and civil rights leader; b. 11 March 1926, Linden, Ala.; m. Juanita Odessa Jones 1952; four c.; ed. Alabama State Univ. and Atlanta Univ.; Army service during Second World War; Pastor, First Baptist Church of Montgomery 1951-61; organized Montgomery Improvement Assn. 1955; helped organize Southern Christian Leadership Conf., Atlanta 1957, became Sec.-Treas., Vice-Pres. 1965-68, Pres. 1968-77, Pres. Emer. 1977-; Pastor, West Hunter Street Baptist Church, Atlanta 1961-; mem. Nat. Assn. for Advancement of Colored People (NAACP); jailed numerous times with late Dr. Martin Luther King; Hon. LL.D. (Allen Univ.) 1960, (Long Island Univ.) 1969, (Alabama State Univ.) 1974, Hon. D.D. (Morehouse Coll.) 1971, (Kalamazoo Coll.) 1978; Peace Medallion (German Democratic Repub.) 1971. *Address:* 1040 Gordon Street, S.W. Atlanta, Ga. 30310, U.S.A.

ABETTI, Giorgio, D.SC.; Italian astronomer; b. 5 Oct. 1882, Florence; s. of Antonio Abetti and Giovanna Colbachini; m. Anna Maffei Garino 1920; one s.; Dir. Arcetri Observatory 1921-52; Astronomer Roman Coll., Rome 1910-19; mem. De Filippi Asiatic expedition 1913-14; Prof. of Astronomy, Florence Univ. 1921-; Rector 1936; mem. Accad. Naz. dei Lincei; fmr. Vice-Pres. Int. Astronomical Union; mem. Royal Astronomical Soc.; Chief Italian Acad. expeditions to Kazakhstan and Sudan for Solar eclipses 1936, 1952; fmr. Pres. Int. Cttee. for Study of Solar and Terrestrial Relationships; Pres. Italian Astronomical Soc. 1953-64; Pres. Nat. Inst. of Optics 1952-70, Italian Fulbright Assn. 1959, mem. Royal Astronomical Soc. and Royal Soc. of Edinburgh; awarded Silver Medal of Royal Italian Geographical Soc., Lincei Prize 1925, Janssen Medal 1937, Gold Medal of Ministry of Public Instruction 1957, Gold Medal Italian Astronomical Soc. 1964, Gold Medal City of Florence 1972, Hon. C.B.E. *Publications:* Il Sole 1963 (English trans. 1963), Stelle e Pianeti 1956 (English trans. 1966), Amici e nemici di Galileo 1945, Scienza d'oggi 1946, Storia dell' Astronomia 1948, 1963 (English trans. 1952) 1964, Kepler 1951, Esplorazione dell'Universo 1959, 1965 (English trans. 1968), Le Nebulose e gli Universi-isole (with M. Hack) 1959 (English trans. 1965), Solar Research 1962, Unità del Cosmo 1964; Editor Osserv. e Mem. Oss. Arcetri (1922-53). *Leisure interest:* divulgation of astronomy. *Address:* Istituto Nazionale di Ottica, Largo Enrico Fermi 7, 50125 Florence, Italy. *Telephone:* 221180; 221179.

ABLON, Ralph E.; American business executive; b. 1916, Tupelo, Miss.; m.; four c.; ed. Ohio State Univ.; Teacher, Ohio State Univ. 1938-39; worked for Luria Brothers and Co. 1939-62, Dir. 1962-; served in U.S. Navy during Second World War; Exec. Vice-Pres. Luria Brothers 1948-55, Pres. 1955-62; Chair. and Chief Exec. Officer, Ogden Corpn. 1962-, Pres. 1972-. *Address:* Ogden Corporation, 161 East 42nd Street, New York, N.Y. 10017, U.S.A.

ABOUREZK, James G.; American lawyer and politician; b. 24 Feb. 1931, Wood, S. Dak.; m. Mary Ann Houlton 1952; two s. one d.; ed. South Dakota School of Mines, Univ. of South Dakota School of Law. Served U.S. Navy 1948-52; fmr. partner, law firm of LaFleur and Abourezk; mem. House of Reps. 1971-73; Senator from S. Dakota 1973-79; Democrat. *Address:* c/o 3321 Dirksen Building, Washington, D.C. 20510, U.S.A.

ABRAGAM, Anatole, D.PHIL.; French physicist; b. 15 Dec. 1914, Griva-Semgallen, Russia; s. of Simon Abragam and Anna Maimin; m. Suzanne Lequesme 1944; ed. Lycée Jeanson, Sorbonne, Oxford Univ. Research Assoc., Centre Nat. de la Recherche Scientifique 1946; joined French Atomic Energy Comm. 1947, Physicist, later Senior Physicist 1947-55, Head of Magnetic Resonance Laboratory 1955-58, Head of Solid State Physics and Nuclear Physics Dept. 1959-65, Dir. of Physics 1965-70, Dir. of Research 1971-; Prof. of Nuclear Magnetism, Coll. de France 1960-; Pres. French Physical Soc. 1967; mem. Acad. of Sciences 1973-; Hon. Fellow, American Acad. of Arts and Sciences, Merton and Jesus Colleges, Oxford 1976; Foreign mem. U.S. Nat. Acad. of Sciences; Dr. h.c. (Kent) 1968, (Oxford) 1976; Holweck Prize, London Physical Soc. 1958, Grand Prix Cognac-Jay, Acad. of Sciences 1970, and others, Commdr., Ordre nat. du Mérite, Officier, Légion d'honneur. *Publications:* Discovery of Anomalous Hyperfine Structure in Solids 1950, Dynamic Polarization in Solids 1957, The Principles of Nuclear Magnetism 1961, Nuclear Anti-ferromagnetism 1969, Electron Paramagnetic Resonance of Transition Elements (with B. Bleaney) 1970, Nuclear Pseudomagnetism 1971, Nuclear Ferromagnetism 1973. *Leisure interest:* English and Russian literature. *Address:* Commissariat à l'Energie Atomique, Centre d'Etudes Nucléaires de Saclay, P.O. Box 2, 91190 Gif-sur-Yvette (Office); 33 rue Croulebarbe, 75013 Paris, France (Home).

ABRAHÁM, Dr. Ambrus; Hungarian neuro-histologist; b. 20 Nov. 1893, Tusnád, Transylvania (now Romania); s. of István Abrahám and Teréz Korády; ed. Budapest Univ. Asst. lecturer, Budapest Univ. 1917, senior lecturer 1926, titular extraordinary prof. 1936; Prof. Zoology at Teacher's Training Coll. of Szeged 1934-39, Dir. 1939-40; Prof. and Dir. of Inst. of Comparative Anatomy, Histology, Physiology and Biology, Univ. of Szeged 1940-67; Senior mem. Hungarian Acad. of Sciences; mem. Hungarian Soc. of Biology, Hungarian Soc. of Anatomists, Histologists and Embryologists, Hungarian Soc. of Pathologists; Fellow, Acad. of Zoology, Agra, India; Assoc. Fellow, Royal Soc. of Medicine; mem. World Fed. of Neurology; Charter mem. European Soc. for Comparative Endocrinology (Manchester) 1963; Kossuth Prize 2nd Class, Labour Order of Merit, Golden Degree. *Publications:* Anatomy, Biology, Hygienics (co-author) 1958, Die mikroskopische Innervation des Herzens und Blutgefässe von Vertebraten 1964 (in English 1968); Összehasonlító állatszervezettan (Comparative animal anatomy) 1964. *Leisure interests:* microscopy, music. *Address:* József Attila Tudományegyetem, Állattani Tanszék Szeged, Egyetem-utca 2, Hungary.

ABRAHAM, Edward Penley, C.B.E., D.PHIL., F.R.S.; British biochemist; b. 10 June 1913, Southampton; s. of Albert Penley Abraham and Mary Hearn; m. Asbjörg Harung 1939; one s.; ed. Queen's Coll., Oxford; Fellow of Lincoln Coll., Oxford 1948-; Reader in Chemical Pathology, Oxford Univ. 1960-64, Prof. of Chemical Pathology 1964-; Rockefeller Foundation Travelling Fellow at Univ. of Stockholm 1939, Univ. of Calif. 1948; CIBA Lecturer at Rutgers Univ., N.J. 1957; Guest Lecturer, Univ. of Sydney 1960; Rennebohm Lecturer, Univ. of Wisconsin 1967; Hon. mem. American Acad. of Pharmaceutical Sciences 1967; Squibb Lecturer, Rutgers Univ., N.J. 1972; Hon. Fellow Queen's Coll. 1973, Linacre Coll. 1976, and Lady Margaret Hall, Oxford 1978; Royal Soc. Medal 1973, Scheele Medal (Sweden) 1975, Chem. Soc. Award in Medicinal Chemistry 1976. *Publications:* Biochemistry of Some Peptide and Steroid Antibiotics; part-author: Antibiotics, The Chemistry of Penicillin, General Pathology, Biosynthesis and Enzymic Hydrolysis of Penicillins and Cephalosporins; scientific papers on the penicillins and cephalosporins and other antibiotics. *Leisure interests:* walking, skiing. *Address:* Sir William Dunn School of Pathology, Oxford (Office); Badgers Wood, Bedwell Heath, Boars Hill, Oxford, England (Home). *Telephone:* 57321 (Office); 735395 (Home).

ABRAHÁM, Dr. Kálmán; Hungarian engineer and politician; b. 1931, Budapest; ed. Budapest Tech. Univ., Tech. Univ. of Building and Communications; Head Overground Construction Dept. and Tech. Dir. Road and Railway Designing Co. of Budapest 1964; Head Public Roads Dept. 1970; Sec. of State, Ministry of Transport and Posts 1974-77; Minister of Building and Urban Devt. June 1977-; Chair. Exec. Cttee. for Devt. of Lake Balaton Area; mem. Hungarian Socialist Workers' Party 1951; Labour Order of Merit, golden degree 1977. *Publications:* trade books. *Address:* Ministry of Building and Urban Development, Budapest V, Beloiannis-utca 2/4, Hungary. *Telephone:* 112-200.

ABRAHAMSSON, Bo Axel; Swedish company executive; b. 20 July 1931, Stockholm; s. of Axel and Viola (née Ek) Abrahamsson; m. Lili-Christine Engdahl 1959; one s. three d.; ed. Royal Inst. of Tech., Stockholm; mem. of the Board of Dirs. of Engström och Nilson Maskin AB, Forss-Parator, Betong AB Hans Hadenius, AB C.E. Johansson, Lamco, LIO, Ostermans Bil AB, PIAB, Swedish Steel AB, Sorlings; Pres., Gränges AB, Stockholm 1977-; mem. Industrial Cttee., Royal Swedish Acad. of Eng. Sciences. *Leisure interests:* golf, tennis, hunting, skiing. *Address:* Gränges AB, P.O. Box 16 329, S-103 26 Stockholm (Office); Eriksbergsgatan, 28, S-114 30 Stockholm, Sweden (Home). *Telephone:* 08/223500 (Office); 08/100036 (Home).

ABRAMOV, Grigoriy Grigoriyevich; Soviet politician; b. 10 Jan. 1908, Karandeevka, Ryazan; ed. Bauman Tech. Inst., Moscow; Engineer 1941-47; party work 1947-49; Second Sec. Mytishchi Town Cttee., Communist Party, First Sec. Shchelkovsk Town Cttee. 1949-55; Section Leader, Moscow Region Party Cttee. 1955-59, Second Sec. 1959-60, First Sec. 1960-63; First Deputy Chair. Econ. Council 1963-65; Deputy Minister Chemical and Oil Machine Building 1965-; mem. Central Cttee. CPSU 1961-66; Deputy to U.S.S.R. Supreme Soviet 1962-66; mem. Presidium of Supreme Soviet 1962-66; Order of Red Banner of Labour (four times). *Address:* Ministry of Chemical and Oil Machine Building, 25 Bezbozhny pereulok, Moscow, U.S.S.R.

ABRAMOVITZ, Max, M.S.; American architect; b. 23 May 1908, Chicago; s. of Benjamin Abramovitz and Sophia Maimon; m. 1st Anne Marie Causey 1937 (divorced), 2nd Anita Brooks 1964; one s. one d.; ed. Illinois and Columbia Univs., Ecole des Beaux Arts, Paris; mem. of Harrison, Fouilhoux & Abramovitz 1941-45, Harrison & Abramovitz 1945-76; Abramovitz-Harris-Kingsland 1945-; U.S. Army (Corps of Engineers) 1942-45; Deputy Dir. of Planning, UN, New York 1947-52; U.S. Air Force (Colonel) 1950-52; Fellow, American Inst. of Architects; mem. Architectural League of New York, American Soc. of Civil Engineers, Century Assen.; Dir. Regional Plan Assen. Inc.; Trustee, Mount Sinai Hospital; Legion of Merit 1945; Hon. Dr. of Fine Arts, (Pittsburgh and Illinois); Award of Achievement, Univ. of Illinois Alumni Assen. 1963; Fellow, Brandeis Univ. 1963. *Works include:* Corning Glass Center (Corning, N.Y.) 1951, Mellon Nat. Bank, U.S. Steel Building, Alcoa Building (Pittsburgh), U.S. Embassy (Rio de Janeiro) 1952, U.S. Embassy (Havana) 1953, Three Chapels at Brandeis Univ. 1955, Commercial Investment Trust Building (New York) 1957, Wachovia Bank and Trust Co. Building (Charlotte, N.C.) 1958, Corning Glass Building (New York) 1959, Gateway No. 4 (Pittsburgh) 1960, Philharmonic Hall, Lincoln Center for the Performing Arts (New York), Columbia Univ. Law School and Library (New York) 1962, Univ. of Illinois Assembly Hall (Champaign, Ill.) 1963, Phoenix Mutual Life Insurance Bldg. (Hartford, Conn.) 1964, Hilles Library, Radcliffe Coll., Cambridge, Mass. 1966, Beth Zion Temple, Buffalo, N.Y. 1967, Krannert Center for the Performing Arts, Urbana, Ill. *Address:* 418 East 50th Street, New York, N.Y. 10022, U.S.A.

ABRASIMOV, Pyotr Andreyevich; Soviet diplomatist; b. 16 May 1912, Bogushevskoe, Byelorussia; ed. Byelorussian State Univ.; Electrician 1928-31; Soviet Army 1941-42; mem. CPSU 1940-, Party work 1942-46, 1950-52, 1955-56; Perm. Rep. Byelorussian S.S.R. Council of Ministers at U.S.S.R. Council of Ministers 1946-48; First Vice-Chair. Byelorussian S.S.R. Council of Ministers 1948-50, 1952-55; Minister-Counsellor, Soviet Embassy, Peking 1956-57; Amb. to Poland 1957-61, to the German Democratic Republic 1962-71, 1975–, to France 1971-73, concurrently to Madagascar 1972-73; Head Dept. for Liaison with Communist Parties of Socialist Countries 1973-75; First Sec. Smolensk Regional Cttee. of CPSU 1961-62; mem. Cen. Cttee. CPSU 1961-; Deputy to Supreme Soviet of U.S.S.R.; Order of Lenin (twice), Red Banner, Red Banner of Labour, October Revolution. *Address:* U.S.S.R. Embassy, Unter den Linden 63-65, 108 Berlin, German Democratic Republic.

ABRIKOSOV, Aleksey Alekseyevich; Soviet physicist; b. 25 June 1928, Moscow; s. of Aleksey Ivanovich Abrikosov and Fanny Davidovna Vulf; m. 1st Tatiana Nikolayevna Lashko 1949, m. 2nd Annie Françoise Dao 1970, m. 3rd Svetlana Yuriyevna Bun'kova 1977; two s. one d.; ed. Moscow Univ.; Postgraduate Research Assoc., Research Worker, Inst. of Physical Problems, U.S.S.R. Acad. of Sciences 1948-65; Head of Dept., Inst. of Theoretical Physics, U.S.S.R. Acad. of Sciences 1965-; Research Assoc., Asst. Prof., Prof. Moscow Univ. 1951-68, Prof. Gorky Univ. 1971-72, Prof. Moscow Physical Eng. Inst. 1974-75, Head Chair. Theoretical Physics, Moscow Inst. of Steel and Alloys 1976-; Corresp. mem. U.S.S.R. Acad. of Sciences 1964-; D.S. h.c. (Lausanne) 1975; Lenin Prize 1966, Fritz London Award 1972. *Publications:* Quantum Field Theory Methods in Statistical Physics 1962, Introduction to the Theory of Normal Metals 1972, and works on plasma physics, quantum electro-dynamics, theory of superconductors, magnetism, astro-physics, quantum liquids and semimetals. *Leisure interests:* skiing, mountaineering. *Address:* Landau Institute for Theoretical Physics, Vorobievskoye Chaussée 2, Moscow 117334, U.S.S.R.

ABRIL MARTORELI, Fernando, DR. AGRIC. ENG.; Spanish politician; b. 1936, Valencia; m.; studied rural econ. and agricultural engineering; fmr. Pres. of Diputación (city council) of Segovia; fmr. Dir.-Gen. FORPPA; fmr. Dir.-Gen. of Agricultural Production; now mem. Higher Agrarian Council; Chair. Spanish Dairying Fed.; mem. Cortes (Parl.); Minister of Agriculture 1976-77 (responsibility for Political Affairs 1977-78, for Economic Affairs Feb. 1978-); Deputy Prime Minister July 1977-; various nat. decorations. *Address:* Oficina del Primer Ministro, Madrid, Spain.

ABS, Hermann J.; German banker; b. 15 Oct. 1901; ed. part-time studies, Univs. of Bonn and Cologne; joined staff of Delbrück Schickler & Co., bankers, Berlin 1929, Partner 1935-37; mem. Management Bd. Deutsche Bank, Berlin 1937; mem. Management Bd. Reconstruction Loan Corpn., Frankfurt 1948-59, Chair. 1959-; Head, German Del. on German External Debts 1951-53; mem. Management Bd. Süddeutsche Bank A.G. 1952-67, now Deutsche Bank A.G., Frankfurt, mem. Supervisory Bd. 1967, subsequently Chair., now Hon. Chair.; mem. Advisory Bd. Int. Finance Corpn. 1962-; Chair. Supervisory Bd. Dahlbusch Verwaltungs-AG, Gelsenkirchen, Rheinisch-Westfälisches Elektrizitätswerk AG, Essen; Chair. Admin. Bd. Kreditanstalt für Wiederaufbau, Frankfurt (Main); mem. Supervisory Bd. Hoesch-Werke AG, Dortmund; mem. and Hon. Chair. Supervisory Bd. Deutsche Lufthansa AG, Cologne; Hon. Chair. Supervisory Bd. Daimler-Benz AG, Stuttgart-Untertürkheim, Flachglas AG DELOGDETAG, Gelsenkirchen/Fürth, Deutsche Solvay-Werke GmbH, Solingen-Ohligs, Deutsche Ueberseeische Bank AG, Hamburg, Enka Glanzstoff AG, Wuppertal-Elberfeld, Philipp Holzmann AG, Frankfurt, Pittler Maschinenfabrik AG, Langen (Hessen), Papierwerke Waldhof-Aschaffenburg AG, Munich, Salamander AG, Kornwestheim, Süddeutsche Zucker-AG, Mannheim; Hon. Dir. BRASCAN Ltd., Toronto; mem. Int. Advisory Bd. R. J. Reynolds Industries Inc., Winston-Salem, N.C., U.S.A.; Dr. h.c. (Univ. of Göttingen, Wirtschaftshochschule, Mannheim, etc.). *Address:* Junghofstrasse 5-11, Frankfurt/Main, Federal Republic of Germany.

ABUSHADY, Mohamed Mahmoud, PH.D., A.C.I.P.; Egyptian banker; b. 15 Aug. 1913, Fayoum; s. of Mahmoud and Seddika (Hashad) Abu Shadi; m. Colleen Althea Bennet 1947; two s. two d.; ed. Cairo Univ., Chartered Inst. of Patent Agents, and American Univ., Washington; Controller-Gen., Insurance Dept., Ministry of Finance 1949-52; Dir.-Gen. Govt. Insurance and Provident Funds 1953; Chair. and Man. Dir. Devt. and Popular Housing Co. 1954-55; Sub-Gov. Nat. Bank of Egypt 1955-60, Man. Dir. 1960-67, Chair. and Man. Dir. 1967-70; Chair. Union de Banques Arabes et Françaises (UBAF), Paris 1970-, UBAF Ltd., London 1971-; Chair. Social Insurance Org. 1956-57; Chair. and Man. Dir. Cairo Insurance Co. 1956-57; Man. Dir. Cairo Bank 1956-57; Pres. Int. Bankers' Assen. 1976-; Order of the Repub., (2nd Class), Order of Merit, (1st Class). *Publications:* The Art of Central Banking and its Application in Egypt 1962, Central Banking in Egypt 1952, Will New York Attract Arab Capital? 1974, The Experience of the Arab-French Banks 1974, Oil Funds: The Search for Supplementary Recycling Mechanisms 1975, The Role of Finance in Promoting Arab European Business Cooperation 1976. *Address:* Union de Banques Arabes et Françaises, 4 rue Ancelle, 92200 Neuilly sur Seine (Office); 52 avenue Foch, 75016 Paris, France (Home). *Telephone:* 747-72-42.

ABUZEID, Hamdi; Egyptian diplomatist; b. 20 March 1919, Sudan; m. Fatima Said 1942; one s. one d.; ed. Mil. Colls. in U.K., U.S.A., U.S.S.R.; military pilot, Egyptian Air Force 1940; Amb. to Yugoslavia 1962, to Mexico 1968, to Syria 1975, to U.S.S.R. 1976–; Head, European Dept., Ministry of Foreign Affairs 1973; Minister of Civil Aviation 1975. *Address:* Embassy of Egypt, Ul. Gertsena 56, Moscow; U.S.S.R.; 31 Mazhar Street, Zamalek, Cairo, Egypt (Home). *Telephone:* 811539 (Home).

ABUZEID, Salah; Jordanian diplomatist and former politician; b. 21 April 1925, Irbid; m.; ed. Law Coll. of Syrian Univ., Damascus, and Syracuse Univ., U.S.A.; Government Official 1950-58; Dir. Amman Radio Station 1958-59; Asst. Dir.-Gen. Hashemite Broadcasting Service 1959-62, Dir.-Gen. of Hashemite Broadcasting Service and Chief of Nat. Guidance 1962-64; Minister of Information 1964-65, 1967, of Culture and Information 1967-68; Amb. to U.K. 1969, 1976-78; Minister of Culture and Information 1969-70; Special Adviser to H.M. The King 1970-72; Minister of Foreign Affairs 1972-73; mem. Senate, Head of Foreign Relations Cttee. 1974-76; Adviser to H.M. The King 1976; Order of the Star of Jordan, First Class, Order of Al Nahda, Second Class, Cedar of Lebanon, First

Class, Order of Independence of Libya, First Class, Order of Ouissam Alouite, First Class (Morocco), Order of St. Sylvester, Grand Officer, Order of Merit (Fed. Repub. of Germany), Order of Istiqlal, First Class (Tunisia). *Publications:* Al Hussein bin Talal 1958. *Address:* c/o Ministry of Foreign Affairs, Amman, Jordan.

ABZUG, Bella Savitzky, LL.B.; American lawyer and politician; b. 24 July 1920, New York; d. of Emanuel and Esther Savitzky; m. Martin M. Abzug 1944; two d.; ed. Bronx public schools, Hunter Coll., Univ. of New York; admitted to New York bar 1947, practised in New York 1944-70; mem. House of Reps. from 19th District, New York, then 20th District, New York 1970-76; mem. House Public Works Cttee., Government Operations Cttee. (Chair. Sub-Cttee. on Government Information and Individual Rights); co-author Freedom of Information and Privacy Acts; mem. Pres.'s Comm. on Observance of Int. Women's Year (IWY), Congressional Adviser to IWY Int. Conf., Mexico City 1975; spokeswoman for peace, full employment, job-producing public works programmes, federalization of welfare, openness in government, equal rights, consumer and environmental protection, aid to cities, programmes for sr. citizens, aid to Israel; mem. Women Strike for Peace (founder and Nat. Legislative Dir. 1961-70), Women's Prison Assn., Nat. Org. for Women until 1979, Nat. Women's Political Caucus (founder and fmr. Chair.), American Civil Liberties Union, Democratic Study Group, Congress for Peace through Law, Hadassah, UN Assn., B'nai B'rith, Hunter Coll. Hall of Fame; Hon. D. Iur. (New York); Democrat-Liberal. *Publications:* Bella! Ms. Abzug Goes to Washington 1972; numerous articles for magazines, contributor to numerous anthologies on women's movement. *Address:* Longworth Office Building, Washington, D.C. 20515 (Office); 37 Bank Street, New York, N.Y. 10014, U.S.A. (Home).

ACEVES PARRA, Dr. Salvador; Mexican doctor and politician; b. 4 April 1904, Michoacán; s. of José M. Aceves and María Parra de Aceves; m. Carmen G. C. de Aceves 1934; two s. two d.; ed. Nat. Preparatory School, Mexico City, and Faculty of Medicine, Univ. Nacional Autónoma de México; Asst. at Propadeutic Medical Clinic, Faculty of Medicine, Univ. Nacional Autónoma de México 1933-36, Prof. of Medical Pathology 1936-44, Prof. of Medical Clinic 1944-68; Prof. of Graduate Course in Cardiology 1935-68; Asst. Prof., later Prof., at Graduate School; Intern Doctor, Gen. Hospital 1933-36, attached to Intern Medical Service 1936-38, Head of Medical Service, Gen. Hospital 1938-44; Head, Nat. Inst. of Cardiology Service 1944-61; Dir. Nat. Inst. of Cardiology 1961-65; Under-Sec., Secr. of Public Health and Welfare 1965-68, Sec. 1968-70; Hon. mem. Council of Seminaries of Mexican Culture 1960-; mem. Nat. Acad. of Medicine, Pres. 1951, 1952; Pres. Mexican Cardiology Soc. 1947-49, 1956-58; mem. Govt. Council, Nat. Univ. of Mexico; mem. numerous American and Latin American medical socs.; Commdr. Order of Merit (Italy) 1964, Decoration for Medical Merit (Brazil) 1967. *Leisure interests:* reading, horse-riding. *Address:* Nuevo Léon 66, 3°, México, D.F. (Office); B. Traven No. 166, México 13, D.F., Mexico (Home). *Telephone:* 528-68-38 (Office); 524-16-84 (Home).

ACHEBE, Chinua, B.A.; Nigerian writer; b. 16 Nov. 1930, Ogidi, E.C.S.; s. of late Isaiah O. and Janet N. Achebe; m. Christie C. Okoli 1961; two s. two d.; ed. Government Coll., Umuahia, and Univ. Coll., Ibadan; Producer, Nigerian Broadcasting Corpn., Lagos 1954-58, Regional Controller, Enugu 1958-61, Dir. Voice of Nigeria, Lagos 1961-66; Senior Research Fellow, Univ. of Nigeria, Nsukka 1967-; Rockefeller Fellowship 1960-61; UNESCO Fellowship 1963; Foundation mem. Soc. of Nigerian Authors; mem. Gov. Council, Lagos Univ. 1966, mem. E. Central State Library Board 1971-; Founding Editor, Okike 1971-; Prof. of English, Univ. of Massachusetts 1972-75, Univ. of Connecticut 1975; Univ. of Nigeria, Nsukka 1975-; Editorial Adviser, African Writers' Series (Heinemann) 1962-72; Dir. Heinemann Educational Books (Nigeria) Ltd., Nwamife (Publishers), Enugu; Nigerian Nat. Trophy 1960; Hon. Fellow, Modern Language Assn. of America 1974; Neil Gunn Int. Fellow 1975; Fellow, Ghana Assn. of Writers 1975; Hon. D. Univ.; Hon. D. Litt.; Hon. D.H.L.; Hon. LL.D.; Margaret Wrong Memorial Prize 1959, Nigerian Nat. Trophy 1960, Jock Campbell New Statesman Award 1965, Commonwealth Poetry Prize 1972. *Publications:* Things Fall Apart 1958, No Longer at Ease 1960, Arrow of God 1964, A Man of the People 1966, Chike and the River 1966, Poems 1971, Girls at War 1972, Beware Soul Brother 1972, How the Leopard Got His Claws 1973, Morning Yet on Creation Day 1975, The Flute 1978, The Drum 1978. *Leisure interest:* music. *Address:* c/o Department of English, University of Nigeria, Nsukka, Anambra State, Nigeria.

ACHILLE, Jean-Claude; French public administrator; b. 6 June 1926, Agen; m. Lise-Rose Rame 1961; one s.; ed. Ecole Polytechnique and Ecole des Mines, Paris; Engineer, coal mines, Bassin de Blanzy 1950-51; Engineer of Mines, Valenciennes, then Asst. to Chief Engineer, Douai Mines 1951-56; Tech. Councillor and Dir. of Offices at Ministry of Industry and Commerce 1956-59; Asst. Dir.-Gen. Gaz de France 1959-63; Dir.-Gen. Charbonnages de France 1963-68; Dir. Houillères du bassin du Nord et du Pas-de-Calais, Houillères du bassin de Lorraine 1963-68; mem. Econ. and Social Cttee. European Community 1963-68; mem. Bd. of Dirs. and Dir.-Gen. Rhône-Poulenc, S.A. 1968-76, Vice-Pres. 1976-; mem. Advisory Council Banque de France 1975-; Chair. Board Société des Usines Chimiques, Rhône-Poulenc 1974-75; Pres. Union des Industries Chimiques; Dir. numerous other companies. *Address:* 64 avenue Marceau, 75008, Paris, France. *Telephone:* 720-56-03.

ACKER, Sven Hermann; Danish public servant, b. 27 Feb. 1911, Copenhagen; s. of Fr. Acker and Karen Frisenette; m. Drude Kvalsund 1940; ed. Ordrup Gymnasium and Københavns Universitet; Sec. to Minister of Public Works 1946-48; Del. UN Transport Cttee., Geneva 1947-50, 1952-56; Chair. UN Cttee. on Road Transport, Geneva 1954-56; Dir.-Gen. Nat. Travel Assn. of Denmark 1957-67, Danish Tourist Bd. 1967-; Chair. Regional Comm. for Europe, Int. Union of Official Travel Orgs. 1964-67; Chair. European Travel Comm. 1971-73; mem. Exec. Cttee. for Preservation of Natural Amenities in Denmark 1957-59; mem. Exec. Cttee., Europa Nostra; Vice-Chair. Cttee. Royal Danish Music and Ballet Festival 1957-68; Knight 1st Class Order of Dannebrog, Commdr. Icelandic Order of the Falcon; Danish Tourist Board Medal. *Leisure interest:* Danish history. *Address:* Danish Tourist Board, Vesterbrogade 6D, DK-1620 Copenhagen V (Office); Hostrups Have I, 1954 Copenhagen V (Home); Nordre Strandvej 408, 3100 Hornbaek, Denmark (Summer).

ACKLEY, (Hugh) Gardner, PH.D.; American educationist, economist and diplomatist; b. 30 June 1915, Indianapolis, Ind.; s. of Hugh M. and Margaret (McKenzie) Ackley; m. Bonnie A. Lowry 1937; two s.; ed. Western State Teachers Coll. and Univ. of Michigan; Instructor, Ohio State Univ. 1939-40, Univ. of Michigan 1940-41; Office of Price Administration, Washington 1941-43, 1944-46; Office of Strategic Services 1943-44; Asst. Prof. Univ. of Michigan 1946-47; Assoc. Prof. 1947-52, Prof. 1952-68; Econ. Adviser and Asst. Dir. Office of Price Stabilization 1951-52; mem. Bd. of Editors, American Economic Review 1953-56; Dir. Social Science Research Council 1959-62; Vice-Pres. American Econ. Assn. 1963; mem. Council of Econ. Advisers, Exec. Office of the Pres. of U.S. 1962-68, Chair. 1964-68; Amb. to Italy 1968-69; Henry Carter Adams Univ. Prof. of Political Economy, Univ. of Mich. 1969-; Consultant, Baker, Weeks & Co. 1970-74; Dir. Nat. Bureau of Econ. Research 1971-, Banco di Roma (Chicago) 1973-; mem. American Philosophical Society; Trustee, Joint Council on Econ. Educ. 1971-77; Assoc. Staff mem. Brookings Inst. 1976-; mem. Advisory Council on Social Security 1978-79; mem. Research Advisory Bd., Cttee. for Econ. Devt. 1979-; Fellow American Acad. of Arts and Sciences; Hon. LL.D. (Western Michigan) 1964, (Kalamazoo Coll.) 1967; Cavaliere del Gran Croce, Ordine al Merito della Repubblica Italiana. *Publications:* Macroeconomic Theory 1961, Un Modello Econometrico dello Sviluppo Italiano nel Dopoguerra 1963, Stemming World Inflation 1971, Macroeconomics: Theory and Policy 1978; columnist Dun's Review; numerous articles, reviews, contributions to symposia, etc. *Address:* Department of Economics, University of Michigan, Ann Arbor, Mich. 48104 (Office); 907 Berkshire Road, Ann Arbor, Mich. 48104, U.S.A. (Home). *Telephone:* 313-764-2374 (Office); 313-665-8770 (Home).

ACUTT, Sir Keith (Courtney), K.B.E.; British mining executive; b. 6 Oct. 1909, South Africa; s. of late Guy Courtney Acutt. War service 1939-45; Deputy Chair. Anglo-American Corpn. of South Africa Ltd.; Chair. Wankie Colliery Co.; Dir. De Beers Consolidated Mines Ltd.; Dir. numerous finance and mining companies. *Leisure interests*: horse breeding and racing. *Address*: 44 Main Street, Johannesburg, South Africa.

ACZÉL, György; Hungarian politician; b. 1917, Budapest. Joined Workers' Movement 1935; Party Sec., Borsod and Baranya after 1945; First Deputy Minister of Educ. 1958-67; mem. Central Cttee. Hungarian Socialist Workers' Party 1956-, Sec. Central Cttee. 1967-74, mem. Politburo 1970-; Deputy Prime Minister 1974-; mem. Central Cttee. Agitation and Propaganda Board, attached to Hungarian Socialist Workers' Party 1975-; Chair. Awarding Cttee. for State Prize and Kossuth Prize; Gold Medal, Labour Order of Merit, Order of Merit of the Hungarian People's Republic. *Publications*: Eszménk erejével (By Strength of our Idea) 1970, Szocialista kultura-közösségi ember (Socialist Culture-Community Man) 1975, Elmaradt vita helyett (In Lieu of an Omitted Debate) 1975, A szabadság jelene és jövője a szocializmusban (Freedom Today and Tomorrow within Socialism) 1977. *Address*: Parliament Building, 1357 Budapest, Hungary.

ADAIR, Frank Earl, LL.D., M.D., L.H.D.; American surgeon; b. 9 April 1887, Beverly, Ohio; s. of Samuel and Ella (née Patterson) Adair; m. Marion Hopkinson 1935; two s.; ed. Marietta Coll. and Johns Hopkins Univ. House Surgeon, New York Hosp. 1914-15; Asst. Surgeon Hosp. for Special Surgery, New York 1919-30; Asst. Surgeon Memorial Hosp. 1920-26, Assoc. Surgeon 1926-28, Attending Surgeon 1929-52, Emer. 1952-; Emer. Attending Surgeon Memorial Sloan-Ketting Cancer Center; Attending Surgeon, Doctor's Hosp., Ewing Hosp. 1950-, St. Clair's Hosp.; Assoc. Prof. Cornell Univ. Medical School; mem. Comm. to help settle cases in suits which involve Supreme Court Justices; Pres. Adair Fund for Cancer Research, Jackson Lab. for Cancer Research; Trustee Marietta Coll., Royal Society of Medicine Foundation; Hon. Fellow, Royal Soc. of Medicine; Fellow, American Coll. of Surgeons; Nat. Award, American Coll. of Surgeons 1969; Nat. Cancer Award for Distinguished Service, American Board of Radiology; mem. American Medical Assen., American Radium Soc., American Assen. for Cancer Research and many other socs. *Publications*: many articles in medical journals. *Address*: 75 East 71st Street, New York, N.Y. 10021 (Office); 1 East 66th Street, New York, N.Y. 10021, U.S.A. (Home).

ADAM, Robert (Robin) Wilson: British petroleum executive; b. 21 May 1923, Aberdeen; s. of Robert Ross Adam and Agnes Wilson Adam; m. Marion Nancy Scott 1957; ed. Fettes Coll., Edinburgh. War service in India and Burma; joined Anglo-Iranian Oil Co. (later The British Petroleum Co.) as accountant 1950, Asst. Chief Accountant 1959-64, with Cen. Planning Dept. 1964-67, Gen. Man. 1966-67; Gen. Man. Finance and Planning Dept. of BP Chemicals 1967-69; Pres. BP North America Inc. 1969-73; Dir. BP Trading Ltd. 1973-75; Dir. Standard Oil Co. Inc. (SOHIO) 1972-76 and 1978-; Man. Dir. The British Petroleum Co. Ltd. 1975-. *Leisure interest:* golf. *Address:* The British Petroleum Company Ltd., Britannic House, Moor Lane, London, E.C.2. (Office); Flat 10, 25 Onslow Square, London S.W.7, England (Home). *Telephone:* 01-920 8000 (Office); 01-589 1944 (Home).

ADAM, Gen. Sir Ronald Forbes, G.C.B., D.S.O., O.B.E.; British army officer; b. 30 Oct. 1885, Mahabaleshwar, India; s. of Sir Frank Forbes Adam, Bt., and Rose Kenball; m. Dorothy Pitman 1915 (died 1972); four d. (one deceased); ed. Eton and Royal Military Acad., Woolwich. Served Great War 1914-18; Gen. Staff Officer, Staff Coll. Camberley 1932-35, Commandant 1937; Gen. Staff Officer War Office 1935-36; British Del. Gen. Staff conversations between U.K., France and Belgium 1935; Commander 1st Div. Royal Artillery 1936-37; Deputy Chief Imperial Gen. Staff 1937-40; Gen. Officer Commanding Northern Command 1940-41; Adjutant Gen. to Forces 1941-46; mem. Army Council 1942-46; Chair. British Council 1946-55, Pres. 1955-69; Pres. Nat. Inst. Adult Educ., UN Assen.; mem. Miners' Welfare Comm. 1946-54; mem. Exec. Board UNESCO 1950-52, Chair. 1952-54; Principal, Working Men's Coll. 1956-61; Chair. Council of Inst. of Education, London Univ.; Gov. Birkbeck Coll.; Trustee, Nat. Central Library; Hon. Fellow, Worcester Coll., Oxford; Hon. LL.D. (Aberdeen). *Leisure interests:* walking and gardening. *Address:* Carylls Lea, Faygate, Sussex, England.

ADAMKIEWICZ, Franciszek, D.SC. TECH; Polish politician; b. 1919, Germany; ed. Tech. Univ., Poznań. Worked in H. Cegielski metal works, Poznań 1946-71; posts in econ., investments and tech. sections; Tech. Dir. 1965-67, Gen. Dir. 1967-71; First Deputy Minister of Heavy Industry 1971-76; Minister of Heavy and Agricultural Machine Industries March 1976-; mem. Polish United Workers' Party (PZPR); Order of Banner of Labour (1st class) and other decorations. *Address:* Ministerstwo Przemysłu Maszyn Ciężkich i Rolniczych, ul. Krucza 36, 00-921 Warsaw, Poland.

ADAMS, Arthur Stanton, M.A., SC.D.; American educationist; b. 1 July 1896, Winchester, Mass.; s. of Charles S. and Grace E. (Newhall) Adams; m. 1st Dorothy Anderson 1918 (died 1954), 2nd Irene H. Smith 1956 (died 1963); one s. (died 1974); ed. U.S. Naval Acad. and Submarine School, Univ. of Calif., and Colorado School of Mines. Served in U.S. Navy 1918-21; Teacher, Mathematics and Science, public and private schools, Denver 1921-25; Asst. Prof. of Metallurgy and Mathematics, Assoc. Prof. of Mechanics, and Prof. Colorado School of Mines 1927-40, Asst. to Pres. 1938-40; Asst. Dean of Engineering and Dir. Engineering, Science and Management, War Training Programme, Cornell Univ. 1940-42; Bureau of Naval Personnel 1941-45; Provost of Cornell Univ. 1946-48; Pres. Univ. of New Hampshire 1948-51; Pres. American Council on Educ. 1951-61; Pres. Salzburg Seminar in American Studies 1961-65; Consultant, New England Center for Continuing Educ. 1969-73; Regents Lecturer, Univ. of California 1961; Pres. Assen. of Land-Grant Colls. and Univs. 1949-50; Visiting Prof. of Higher Education, Univ. of Colorado 1962; mem. American Assen. for the Advancement of Science, etc.; Legion of Merit; 36 hon. degrees. *Publications:* The Development of Physical Thought (with Leonard B. Loeb) 1933, Fundamentals of Thermodynamics (with George D. Hilding) 1945. *Leisure interests:* sailing, gardening. *Address:* Cedar Point Road, Durham, N.H. 03824, U.S.A. *Telephone:* 603-742-3050.

ADAMS, Brockman, LL.B; American lawyer and politician; b. 13 Jan. 1927, Atlanta, Ga.; s. of Charles Leslie Adams and Vera Eleanor (née Beemer); m. Mary Elizabeth Scott 1952; two s. two d.; ed. Washington Univ. and Harvard Law School. Served U.S. Navy 1944-46; law practice 1952-61; U.S. Attorney for W. District of Washington 1961-64; mem. House of Reps. 1965-76, mem. Interstate and Foreign Commerce Cttee. and Transportation sub-cttee., Chair. Budget Cttee. 1975-76; U.S. Sec. for Transportation Jan. 1977-; Instructor, American Inst. of Banking 1955-60; Chair. Presidential Campaign of J. F. Kennedy in W. Wash, 1960; mem. Seattle-King County, Wash., and American Bar Asscns. *Address:* Department of Transportation, 400 7th Street, S.W., Washington, D.C. 20590 (Office); 1415 42nd Avenue E., Seattle, Wash. 98102, U.S.A. (Home).

ADAMS, Charles Francis, A.B.; American industrialist; b 2 May 1910, Boston, Mass.; s. of Charles Adams and Frances Lovering; m. 1st Margaret Stockton (died 1972), one s. two d.; m. 2nd Beatrice D. Penati 1973; ed. St. Mark's School and Harvard Univ. Joined Paine, Webber, Jackson & Curtis (Investment Banking) 1934, Partner 1938; served with U.S. Navy (Commdr.) 1940-46; with Paine, Webber, Jackson & Curtis 1946-47; Exec. Vice-Pres. Raytheon Manufacturing Co. (now Raytheon Co.) 1947, Pres. 1948-60, 1962, Chair. 1964-75, Chair. Finance Cttee. 1975-; Dir. Liberty Mutual Insurance Co. 1953-, Liberty Mutual Fire Insurance Co. 1968-, Pan American World Airways Inc. 1967-, First Nat. Bank of Boston 1959-75, The Gillette Co. 1960-, A. C. Cossor Ltd. 1961-; hon. degrees, Bates Coll., Northeastern and Suffolk Univs. *Address:* Raytheon Company, 141 Spring Street, Lexington, Mass. 02173, U.S.A. *Telephone:* 617-862-6600.

ADAMS, John Bertram, C.M.G., F.R.S., M.A., C.ENG., F.I.E.E., F.INST.P.; British scientist; b. 24 May 1920, Kingston, Surrey; s. of John A. Adams and Emily Searles; m. Renie Warburton 1943; one s. two d.; ed. Eltham Coll. Worked at Radar Research Establishment, Malvern 1940-45; Atomic Energy Research Establishment, Harwell 1945-53; European Org. for Nuclear Research (CERN) 1953-61, Dir. Proton Synchrotron Div. 1954-60, Dir.-Gen. 1960-61; Dir. Culham Lab. U.K. Atomic Energy Authority 1960-67; Controller, Ministry of Technology 1965-66; Board mem. for Research, U.K. Atomic Energy Authority 1966-69; Dir.-Gen. Lab. II, European Org. for Nuclear Research (CERN) 1969-75, Exec. Dir.-Gen. 1976-; Röntgen Prize (Univ. of Giessen) 1960, Duddell Medal, Physical Soc. 1961; Leverhulme Medal, Royal Soc. 1972; Faraday Medal I.E.E., 1977; Royal Soc. Medal 1977; Hon. D.Sc. (Geneva) 1960, (Birmingham) 1961, (Surrey) 1966, (Strathclyde) 1978. *Address:* c/o European Organization for Nuclear Research, 1211 Geneva 23 (Office); Champ Rosset, 1297 Founex (Vaud), Switzerland (Home). *Telephone:* 83-61-11 (Office); 76-31-19 (Home).

ADAMS, the Rt. Hon. John Michael Geoffrey Manningham ("Tom"), M.A.; Barbadian politician; b. 24 Sept. 1931, Spooners Hill; s. of late Sir Grantley Adams. Kt., Q.C., C.M.G., C.B.E. (Premier of Barbados 1954-58, Prime Minister of the West Indies Federation 1958-62) and of Lady (Grace) Adams (née Thorne); m. Genevieve Turner; two s.; ed. Harrison Coll., Magdalen Coll., Oxford, Gray's Inn. Practised as attorney; freelance broadcaster and producer, BBC 1952-62; Asst. Sec. and Gen. Sec., Barbados Labour Party 1965-71, Chair. and Political Leader 1971-; M.P. for St. Thomas 1966-; Leader of Opposition in House of Ass. 1971-76; Prime Minister, Minister of Finance and Planning Sept. 1976-. *Leisure interests:* gardening, watching and reading about cricket, philately. *Address:* Office of the Prime Minister, Bridgetown, Barbados.

ADAMS, Léonie, B.A., D.LITT.; American poet and teacher; b. 9 Dec. 1899, Brooklyn, New York; d. of Charles Frederick Adams and Henrietta Rozier (Adams); m. William Troy 1933 (died 1961); ed. Barnard Coll. Editorial work, Wilson Publishing Co., Metropolitan Museum of Art and others 1922-28; Guggenheim Fellowship for Creative Writing 1928-30; Instructor in Literature, New York Univ. 1930-32, Sarah Lawrence Coll. 1933-34, in Literature and Writing, Bennington Coll. 1935-37, 1941-44, in Writing, New Jersey Coll. for Women 1946-48, Columbia Univ. 1947-68; Visiting Prof. Univ. of Wash. 1960, 1968-69, Purdue Univ. 1971-72; Consultant in Poetry, Library of Congress 1948-49; Fellow in American Letters, Library of Congress 1948-55; mem. Nat. Inst. of Arts and Letters (Award 1949, Sec. 1959-61); Fellowship Acad. American Poets 1974; Hon. D.Litt. (New Jersey Coll. for Women) 1950; Harriet Monroe Award 1954; Shelley Memorial Award 1954; Bollingen Prize in Poetry 1955 (jointly); Acad. of American Poets Award 1959; Fulbright Lecturer in American Studies, France 1955-56; Sabbatical Grant, Nat. Council on the Arts 1966-67; Brandeis Univ. Poetry

Medal and Award 1969; Mark Rothke Foundation Award 1973; Distinguished Alumna Medal, Barnard Coll. 1974. *Publications:* Those Not Elect (and other poems) 1925, High Falcon 1929, Lyrics of François Villon (edited, with translation) 1933, Poems, A Selection 1954. *Leisure interest:* gardening. *Address:* Candlewood Mountain Road, R.D.2, New Milford, Conn. 06776, U.S.A. *Telephone:* 201-354-9550.

ADAMS, Sir Philip George Doyne, K.C.M.G.; British diplomatist (retd.); b. 17 Dec. 1915, Wellington, New Zealand; ed. Lancing and Christ Church, Oxford. Vice-Consul, Beirut 1939-41; war service 1941; Third Sec., Cairo 1941-45; Second Sec., Jeddah 1945-47; Foreign Office, London 1947-51; First Sec., Vienna 1951-54; Trade Commr., Khartoum 1954-56; Regional Information Officer, Beirut 1956-59; Foreign Office, London 1959-63; Consul-Gen., Chicago 1963-66; Amb. to Jordan 1966-70; Asst. Under-Sec. Foreign and Commonwealth Office 1970; Deputy Sec. Cabinet Office 1971-72; Amb. to Egypt 1973-75; Dir. Ditchley Foundation 1977-. *Address:* Ditchley Park, Enstone, Oxon.; 78 Sussex Square, London, W.2., England. (Home).

ADAMS, Richard George, M.A.; British novelist; b. 9 May 1920, Newbury, Berks.; s. of Dr. E. G. B. Adams, F.R.C.S., and Lilian Rosa (Button) Adams; m. Barbara Elizabeth Acland 1949; two d.; ed. Bradfield Coll., Berks., and Worcester Coll., Oxford. Army service 1940-46; Home Civil Service 1948-74; Writer-in-Residence, Univ. of Florida, 1975, Hollins Coll., Va. 1976; F.R.S.L. (Hon.); Carnegie Medal 1972, Guardian Award for Children's Literature 1972, Medal of California Young Readers' Asscn. 1977. *Publications:* Watership Down 1972, Shardik 1974, The Plague Dogs 1977. *Leisure interests:* chess, ornithology, folk-song, country walking. *Address:* Knocksharry House, Lhergy Dhoo, Peel, Isle of Man.

ADAMS, Robert; British sculptor; b. 5 Oct. 1917, Northampton; s. of Arthur and Ada Elizabeth Adams; m. Patricia Devine 1952; one d.; ed. Northampton School of Art. Works in wood, stone, bronze, steel and concrete; Instructor Central School of Art, London 1949-59; one-man exhibitions at Gimpel Fils, London, between 1947 and 1969, in Paris 1949, New York 1950, 1963, Dublin 1955, New Jersey 1955, Wuppertal 1957, Düsseldorf 1957, Bonn 1957, Dortmund 1957; represented at Biennali: São Paulo 1950-57, Antwerp 1951, 1953, 1959, Venice 1952-62; other group exhibitions: Holland Park, London 1954-57 and Documenta III Kassel 1965; works in various permanent collections including Arts Council, British Council, Museum of Modern Art, New York, Museum of Modern Art, Turin, São Paulo Museum, Univ. of Michigan, Tate Gallery, London. *Major works include sculptures:* Kings Well, Hampstead, London; Fire Services Training Establishment, Moreton-in-the-Marsh; Kings Heath School, Northampton; Municipal Theatre, Gelsenkirchen; B.P. Building London; P. & O. Liner Canberra, Union Castle Liner Transvaal Castle; Heathrow Airport, London; Sekers Showrooms, London; Queen Mary Coll., London. *Address:* Rangers Hall, Great Maplestead, Halstead, Essex, England. *Telephone:* Hedingham 60142.

ADAMS, Robert McCormick, Jr., PH.D.; American anthropologist; b. 23 July 1926, Chicago, Ill.; s. of Robert McCormick and Janet (Lawrence) Adams; m. Ruth S. Skinner 1953; one d.; ed. Univ. of Chicago. Instructor, Univ. of Chicago 1955-57, Asst. Prof. 1957-61, Assoc. Prof. 1961-62, Prof. 1962-, Dir. Oriental Inst. 1962-68, Dean of Social Sciences 1970-74; Chair. Assembly of Behavioral and Social Sciences, Nat. Research Council; Visiting Prof., Harvard 1962, Univ. of Calif. (Berkeley) 1963; Annual Prof., Baghdad School, American Schools of Oriental Research 1966-67; field research in Iraq, Iran, Mexico, Saudi Arabia and Syria; Lewis Henry Morgan Prof., Univ. of Rochester 1965; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc., German Archaeological Inst. *Publications:* Land behind Baghdad: a History of Settlement on the Diyala Plains 1965, The Evolution of Urban Society: Early Mesopotamia and Prehispanic Mexico 1966, (with H. J. Nissen) The Uruk Countryside 1972. *Leisure interests:* skiing, mountaineering. *Address:* 5805 South Dorchester Avenue, Chicago, Ill. 60637; P.O. Box 101A, Basalt, Colo. 81621, U.S.A. *Telephone:* 753-2477; MU4-8358; 927-3380.

ADAMS, Sherman; American politician and public servant; b. 8 Jan. 1899, East Dover, Vt.; s. of Clyde H. and Winnie Sherman; m. Rachel L. White 1923; one s. three d.; ed. Dartmouth Coll. Served with U.S. Marine Corps 1918; Treas. Black River Lumber Co. 1921-22; Man. timber and lumber operations, Parker-Young Co., Lincoln, N.H. 1928-45; mem. N.H. House of Reps. 1941-44; Chair. Comm. of Labor 1941-42, Speaker 1943-44; mem. 79th Congress, Second N.H. District 1945-47; Gov. of New Hampshire 1949-53; Chief of White House Staff and Asst. to the Pres. 1953-58; Lecturer in Govt., Dartmouth Coll., Wooster Coll., Princeton Univ. and other American institutions; Pres. Loon Mountain Recreation Corpn. 1966-; Chair. Mt. Washington Commission 1969-; Pres. White Mountain Music Festival 1974-; Distinguished Citizen Award, Boy Scouts of America 1976; Hon. LL.D. (Dartmouth Coll., Univ. of New Hampshire, Center Coll., Univ. of St. Lawrence, Univ. of Maine, Middlebury Coll., Bates Coll., Bryant Coll.), C.L.D. (New England Coll.); Republican. *Publications:* First Hand Report 1961; contributions to American Forests, Appalachia, etc. *Leisure interests:* skiing, fishing. *Address:* Pollard Road, Lincoln, N.H. 03251, U.S.A.

ADAMS-SCHNEIDER, Hon. Lance Raymond, M.P.; New Zealand politician; b. 1919, Wellington, N.Z.; s. of A. A. Adams; two s. one d.; ed. Mt. Albert Grammar School. Man. Taumarunui dept. store; served in Second World War, N.Z. Medical Corps; Vice-Chair. Nat. Party in Waitomo electorate; mem. South Auckland Div. Exec.; M.P. for Hamilton 1959-69, for Waikato 1969-; Minister of Broadcasting, Minister Asst. to Minister of Customs 1969; Minister of Customs, Asst. Minister of Industries and Commerce 1969-72; Minister of Health, Social Security and Social Welfare Feb.-Nov 1972; Opposition Spokesman on Health and Social Welfare 1972-75, on Industry, Commerce and Customs 1974-75; Minister of Trade and Industry Dec. 1975-. *Address:* Parliament House, Wellington, New Zealand.

ADAMSON, Sir (William Owen) Campbell, Kt.; British economist and business executive; b. 26 June 1922, Glasgow, Scotland; s. of John and Elsie (née Glendinning) Adamson; m. Gilvray Allan 1945; two s. two d.; ed. Rugby School and Corpus Christi Coll., Cambridge. Joined Baldwins Ltd. 1945; various posts in Steel Co. of Wales and Richard Thomas & Baldwins after mergers 1951-69, Dir. 1965; mem. Iron and Steel Fed. team visiting U.S.S.R. 1956; Industrial Adviser, Dept. of Econ. Affairs 1967, Senior Industrial Adviser 1967, Deputy Under Sec. of State 1968; Dir.-Gen. Confed. of British Industry 1969-76; Chair. Revertex Chemicals Jan. 1978–; Chair. Barclays Tozer Ltd. (B.T.L.); Chair. Abbey National Building Soc. 1978-; Dir. Lazard Bros. and Co., Imperial Group, Doulton Group, Renold Ltd.; founder mem. Social Science Research Council; mem. BBC Gen. Advisory Cttee.; mem. Council of Iron and Steel Inst. 1960-72; mem. Council and Exec. Cttee., Industrial Soc.; Vice-Chair. Nat. Savings Cttee. for England and Wales; Visiting Fellow, Lancaster Univ. 1970, Nuffield Coll., Oxford 1971. *Leisure interests:* music, swimming, tennis, brass-rubbing. *Address:* Birchamp House, Newland, Glos.; and 11 St. Augustine's House, Bloomburg Street, London S.W.1, England. *Telephone:* Coleford 3143 and 01-834 6126.

ADDAMS, Charles Samuel; American cartoonist; b. 7 Jan. 1912, Westfield, N.J.; s. of Charles H. Addams and Grace Spear; m. 1st Barbara Day 1943 (divorced 1951), 2nd Barbara Barb 1954 (divorced 1956); ed. Colgate Univ., Univ. of Pennsylvania, and Grand Central School of Art. Artist for The New Yorker 1935-. *Publications:* Drawn and Quartered 1942, Addams and Evil 1948, Monster Rally 1951, Home Bodies 1954, Night Crawlers 1957, Dear Dead Days 1959, Black Maria 1960, The Groaning Board 1964, The Charles Addams Mother Goose 1967, My Crowd 1970, Favourite Haunts 1976. *Address:* 25 West 43rd Street, New York, N.Y. 10036, U.S.A.

ADDIS, Sir John Mansfield, K.C.M.G.; British diplomatist (retd.); b. 11 June 1914; ed. Rugby and Christ Church, Oxford. Third Sec. Foreign Office 1938; with Allied Force H.Q. (Mediterranean) 1942-44; Jr. Private Sec. to Prime Minister 1945-47; First Sec., Nanking 1947-50, Peking 1950; Counsellor, Peking 1954-57; Counsellor, Foreign Office 1957-60; Amb. to Laos 1960-62; Fellow Harvard Center for Int. Affairs 1962-63; Amb. to Philippines 1963-70; Senior Civilian Instructor, Royal Coll. of Defence Studies 1970-72; Chargé d'Affaires, Peking 1972; Amb. to People's Repub. of China 1972-74; mem. London Advisory Cttee., Hong Kong and Shanghai Banking Corpn. 1979-; Sr. Research Fellow in Contemporary Chinese Studies, Wolfson Coll., Oxford 1975-; Trustee British Museum 1977. *Address:* Woodside, Frant, Sussex, England.

ADEBO, Simeon Olaosebikan, C.M.G., the Okanlomo of Itoko; Nigerian lawyer and diplomatist; b. 5 Oct. 1913, Abeokuta, Nigeria; s. of Chief Adebo, the Okanlomo of Itoko, and Fowotade; m. Regina Abimbola Majekodunmi 1941; three s. one d.; ed. King's Coll., Lagos, London Univ. and Gray's Inn, London. Perm. Sec. to Ministry of Finance, W. Nigeria 1957-59, to Treasury 1959-60; Head of Civil Service and Chief Sec. to Govt. of W. Nigeria 1961-62; Perm. Rep. of Nigeria to the United Nations 1962-67; UN Under-Sec.-Gen. and Exec. Dir. of UN Inst. for Training and Research 1968-72; Pres. Soc. for Int. Devt. 1966-67, 1967-68; Vice-Pres. World Assen. of World Federalists; Chair. Nat. Univs. Comm. of Nigeria 1975-; eleven hon. degrees. *Leisure interests:* tennis and reading. *Address:* Fowotade House, P.O. Box 139, Abeokuta, Nigeria. *Telephone:* AB 2346.

ADEDEJI, Adebayo, B.SC. (ECON.), M.P.A., PH.D.; Nigerian economist; b. 21 Dec 1930, Ijebu-Ode; s. of Mr. and Mrs. L. S. Adedeji; m. Susan Aderinola Ogun 1957; four s. two d.; ed. Ijebu-Ode Grammar School, Univ. Coll., Ibadan, Univ. Coll., Leicester and Harvard Univ. Asst. Sec., Ministry of Econ. Planning, W. Nigeria 1958-61, Principal Asst. Sec. (Finance) 1962-63; Deputy Dir. Inst. of Admin., Univ. of Ife 1963-66, Dir. 1967- (on leave of absence 1971-); Prof. of Public Admin., Univ. of Ife 1968- (leave of absence 1971-); Nat. Manpower Bd. 1967-71; Fed. Commr. for Econ. Devt. and Reconstruction 1971-75; Chair. Directorate, Nigerian Youth Services Corps 1973-75; UN Under-Sec.-Gen and Exec. Sec. UN Econ. Comm. for Africa June 1975-; Chair. Senate of UN Inst. for Namibia 1975-; founder and editor, Quarterly Journal of Administration 1967-75; Fellow, Nigerian Inst. of Management; Pres. Nigerian Econ. Soc. 1971-72; Pres. African Assen. for Public Admin. and Management 1974-; Vice-chair. Assen. of Schools and Inst. of Admin. of Int. Inst. of Admin. Sciences 1970-; Hon. D. Litt. *Publications:* A Survey of Highway Development in Western Nigeria 1960, Nigerian Administration and its Political Setting (Ed.) 1969, Nigerian Federal Finance: Its Development, Problems and Prospects 1969, Local Government Finance in Nigeria: Problems and Prospects (Co-ed.) 1972, Management Problems and Rapid Urbanisation in Nigeria (Co-ed.) 1973, The Tanzania Civil Service, a Decade after Independence 1974, Developing Research on African Administration: Some Methodological Issues (co-editor) 1974, Africa, The Third World and the Search for a New Economic Order 1977. *Leisure interests:* photography, lawn tennis, golf, walking. *Address:* United Nations Economic Commission for Africa, P.O. Box 60072, Addis Ababa, Ethiopia (Office); Adeola Lodge, 122 Apebi Street, Ijebu-Ode, Nigeria (Home). *Telephone:* 44-72-00 (Office); 44-51-70 (Home).

ADEMOLA, Rt. Hon. Sir Adetokunbo Adegboyega, P.C., K.B.E., C.F.R.; Nigerian lawyer; b. 1 Feb. 1906, Abeokuta; s. of late Sir Ladapo Ademola, Paramount Ruler of Egbaland; m. Kofo Moore 1939; three s. two d.; ed. St. Gregory's Grammar School, Lagos, King's Coll., Lagos, Cambridge Univ. and Middle Temple, London. In Crown Law Office, Lagos 1934-35; Admin. officer, Enugu 1935; in private practice as barrister and solicitor, Lagos 1936-39; Magistrate in Nigeria 1939-49; Puisne Judge, Nigeria 1949-55; Chief Justice, Western Region 1955-58; Chief Justice, Supreme Court 1958-72; Chair. Census Board 1972-75; Chancellor, Univ. of Nigeria 1976-; Chair. Commonwealth Foundation Jan 1978-; mem. Int. Comm. of Jurists; mem. Int. Olympic Cttee.; mem. Comm. of experts advising Int. Labour Org. on Convention; Hon. Bencher, Middle Temple 1959; Grand Commdr. Order of Niger 1972; Hon. LL.D., Hon. D.Sc. *Leisure interest:* golf. *Address:* Office of the Chancellor, University of Nigeria, Nsukka Anambra State (Office); 1 The Close, Adetokunbo Ademola Street, Victoria Island, Lagos Nigeria (Home). *Telephone:* 613249 (Home).

ADEREMI, Sir Adesoji, K.C.M.G., K.B.E.; see Ife, Oni of.

ADERS, Robert O., LL.B.; American lawyer and retail executive; b. 21 April 1927, Bridgeton, Ind.; s. of Oral Aders and Frieda Howell; m. Marguerite Herschede 1951; one s. four d.; ed. Miami, Oxford, Ohio and Indiana Univs. Served in U.S. Dept. of Justice; joined The Kroger Co. 1957, Gen. Attorney and Head, Legal Dept. 1962, Vice-Pres. and Gen. Counsel 1964, Sec. 1966, Vice-Pres. and Sec. 1967, Vice-Chair. 1970, Chair. of Bd. 1970-74; mem. Nat. Business Council for Consumer Affairs 1972-; Pres. Food Marketing Inst. 1976-; Under-Sec. Dept. of Labor 1975-76; Dir. Ranco Inc.; mem. Board of Trustees, Ohio Wesleyan Univ.; mem. various civic orgs., etc. *Address:* 1750 K Street NW, Washington, DC 20006, U.S.A.

ADEWOYE, Dr. Omoniyi; Nigerian university lecturer and politician; b. 27 Oct. 1939, Inisha, Oyo State; m.; three c.; ed. Kiriji Memorial Coll., Igbajo, Univ. of Ibadan and Columbia Univ., New York. Lecturer in History, Univ. of Ibadan 1968-75, Sr. Lecturer 1975; Commr. for Econ. Devt., Western State 1975-76; Commr. for Finance and Econ. Devt., Oyo State 1976-77; Fed. Commr. for Econ. Devt. March 1977-; First Chair. Council of Ministers, Econ. Community of West African States 1977-78; Chair. Council of Ministers, Nigerian-Niger Joint Comm. 1977-78; Hon. Treas. Historical Soc. of Nigeria 1972-77; Woodrow Wilson Dissertation Scholarship (Columbia Univ.) 1967, Afgrad Fellowship (U.S.A.) 1964-68. *Publications:* The Legal Profession in Nigeria 1865-1962, 1977, The Judicial System in Southern Nigeria, 1854-1954, 1977. *Leisure interests:* gardening, reading, writing, music. *Address:* Ministry of Economic Development, P.M.B. 12558, Lagos (Office); P.O. Box 37, Inisha Town, Via Oshogbo, Nigeria (Home).

ADISESHIAH, Malcolm Sathianathan, M.A., PH.D.; Indian educationist; b. 18 April 1910, Masras; s. of Shri Veranaci P. Adiseshiah and Nessammah Adiseshiah; m. Elizabeth Adiseshiah 1952; ed. Madras, London and Cambridge Univs. Prof. of Econs., Calcutta and Madras Univs. 1930-46; Assoc. Gen. Sec. Int. Student Service 1946-48; Dep. Dir. Exchange of Persons Service, UNESCO 1948-50; Dir. Dept. of Tech. Assistance, UNESCO 1950-54; Asst. Dir.-Gen. UNESCO 1955-63, Deputy Dir.-Gen. 1963-70; Dir. Madras Inst. of Devt. Studies 1971-; Vice-Chancellor, Madras Univ. 1975-. *Publications:* Demand for Money 1938, Agricultural Economic Development 1941, Handicraft Industries 1942, Rural Credit 1943, Planning Industrial Development 1944, Restless Nations 1962, War on Poverty 1963, Non-political UN 1964, Welfare and Wisdom 1965, Economics of Indian Natural Resources 1966, Education and National Development 1967, Adult Education 1968, Some Thoughts on Unesco in the Second Development Decade 1969, Brain Drain from the Arab World 1969, Let My Country Awake 1970, Madras Development Seminar Series 1971, It is Time to Begin 1972, Techniques of Perspective Planning 1973, Plan Implementation: Problems and Prospects for the Fifth Plan 1974, Towards University Excellence 1974, Literacy Discussion 1976, Towards a Functional Learning Society 1976, Mid-Term Review of the Economy 1976. *Address:* 74 Second Main Road, Gandhinagar, Madras 600 020, India.

ADJIBADE, Tiamiou; Benin diplomatist; b. 15 July 1937, Porto Novo; ed. Univ. of Dakar; entered Diplomatic Service 1961; Dir. Int. Orgs. and Tech. Assistance 1961-70; Sec.-Gen. Ministry of Foreign Affairs 1970-73; Perm. Rep. to UN 1973-77, concurrently Amb. to U.S.A. 1973-75; rep. to several African and int. orgs. *Address:* c/o Ministry of Foreign Affairs, Cotonou, Benin.

ADLER, John Hans, PH.D., D.IUR.; American economist; b. 16 Nov. 1912, Tachov, Czechoslovakia; s. of August and Lilly (Beck) Adler; m. Vilma J. Rabl 1939; two d.; ed. German Univ., Prague, Czechoslovakia, and Yale Univ. Research Asst., Yale Inst. of Int. Studies 1941-42; Instructor in Economics, Oberlin Coll. 1942-44; Economist, Federal Reserve Bd. 1944-45; Deputy Chief, Finance Div., U.S. War Dept., Vienna 1945-47; Economist, Fed. Reserve Bank, N.Y.C. 1947-50; Economist Int. Bank for Reconstruction and Devt. 1950-57, Econ. Adviser 1957-61; Dir. Econ. Devt. Inst., Int. Bank for Reconstruction and Devt. 1962-67; Senior Adviser Int. Bank for Reconstruction and Devt. 1967-68, Dir. Programming and Budgeting Dept. 1968-76, mem. President's Council 1972-77 (retd.), Consultant 1977-; Visiting Fellow (Sr. Assoc. mem.), St. Antony's Coll., Oxford 1978-79; Chief, or Chief Economist, several World Bank Missions, Latin America, Africa, Far East. *Publications:* Public Finance in a Developing Country—El Salvador: A Case Study (with H. C. Wallich) 1949, Public Finance and Economic Development in Guatemala (with E. R. Schlesinger and E. C. Olsen) 1952, The Pattern of U.S. Import Trade since 1923 (with E. R. Schlesinger and E. Van Westerborg) 1952, Recursos Financieros y Reales para el Desarrollo 1961, 1965. *Address:* 5620 Western Avenue, Chevy Chase, Md. 20015, U.S.A. *Telephone:* (301) 654-2804 (Home).

ADNI, Daniel; Israeli concert pianist; b. 6 Dec. 1951, Haifa; ed. High Schools in Haifa and Tel-Aviv, Conservatoire of Music in Paris; first Recital in Haifa 1963; professional debut, London 1970; New York debut 1976; has played at most musical centres in the world incl. U.K., Fed. Repub. of Germany, Israel, U.S.A., Japan, South Africa, Switzerland, Norway, Netherlands, Romania; made over 12 records for EMI-His Master's Voice; First Prize, Paris Conservatoire; First Prize, Young Concert Artists' Auditions, New York. *Leisure interests:* cinema, theatre, bridge, walks, sightseeing. *Address:* c/o Dr. G. de Koos and Co. Ltd., 416 King's Road, London, SW10 0LJ, England. *Telephone:* 01-584 5849; 01-351 3300.

ADO, Andrey Dmitriyevich; Soviet physiologist; b. 12 Jan. 1909, Kazan; ed. Kazan Medical Inst. Mem. CPSU 1943-; Assoc., Prof., Head of Chair, Kazan Medical Inst. 1931-52, Head of Chair, Second Moscow Medical Inst. 1952-; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1945-65, mem. 1965-; Dir. Research Allergological Lab., U.S.S.R. Acad. of Medical Sciences 1961-; Vice-Chair. Bd. U.S.S.R. and Moscow Socs. of Patologicophysiologists; Asst. Editor, Patologicheskaya fiziologiya; Chair. Problem Comm. on Allergy; Order of Lenin, Badge of Honour, etc. *Publications:* over 200 works on inflammation, allergy and immunity. *Address:* Allergological Laboratory, U.S.S.R. Academy of Medical Sciences, 10 Leninsky Prospekt, Moscow, U.S.S.R.

ADOMAKOH, Albert, M.A.; Ghanaian banker, economist and lawyer; b. 8 April 1924; ed. Downing Coll., Cambridge. Barrister-at-Law; Sec. Bank of Ghana 1957-62; Post-graduate, London School of Econs. 1961-62; Man. Dir. and Chair. Nat. Investment Bank 1962-65; Gov. Bank of Ghana 1965-68; Commr. (Minister) for Agriculture 1968-69; Asst. Dir.-Gen. FAO 1969-70; Dir. Investments, Africa and Middle East, IFC 1970-72; Devt. and Finance Consultant 1972-; Chair. Ghana Consolidated Diamonds Ltd. 1973–;

Dir. C.F.A.O. (Ghana) Ltd. 1975-. *Publications:* The History of Currency and Banking in West African Countries 1962. *Address:* P.O. Box 4104, Accra, Ghana.

ADUKO, Louis Antoine, M.A.; Ivory Coast diplomatist; b. 31 Dec. 1917, Bonoua; ed. Coll. of W. Africa, Liberia, Lycée Pugert, Algiers, Univs. of Chicago and London. Dir. Personnel Bureau, Ministry of Education 1958-59, Scholarships Bureau 1960-61; Deputy Dir. of Political Affairs, Ministry of Foreign Affairs 1961-68, Dir. 1968-73; Amb. to U.K. 1973-78, to Nigeria Oct. 1978-. *Address:* Embassy of the Ivory Coast, Victoria Island, 315 Abudu Smith Street, Lagos Nigeria; B.P. 1553, Ministère des Affaires Etrangères, Abidjan, Ivory Coast.

ADVANI, Lal K.; Indian politician, fmr. journalist and social worker; b. 8 Nov. 1927, Karachi (now in Pakistan); ed. St. Patrick's High School, Karachi, D.G. Nat. Coll., Hyderabad, Sind, Govt. Law Coll., Bombay; joined Rashtriya Swayam Sevak Sangh (RSS, social work org.) 1942, Sec. of Karachi branch 1947; joined Bharatiya Jana Sangh (BJS) 1951; party work in Rajasthan until 1958, Sec. of Delhi State Jana Sangh 1958-63, Vice-Pres. 1965-67; mem. Cen. Exec. of BJS 1966; Joint Editor of BJS paper Organiser 1960-67; mem. interim Metropolitan Council, Delhi 1966, leader of Jana Sangh Group 1966; Chair. of Metropolitan Council 1967; mem. Rajya Sabha 1970-, head of Jana Sangh parl. group 1970; Pres. Bharatiya Jana Sangh 1973-77 (incorp. in Janata); detained during emergency June 1975-Jan. 1977; Gen. Sec. Janata Party Jan.-May 1977; Minister of Information and Broadcasting March 1977-. *Address:* Ministry of Information and Broadcasting, New Delhi, India.

AEPPLI, Oswald, DR.IUR.; Swiss banker; b. 13 May 1916, Zürich; m.; one d.; ed. Cantonal High School, Zürich, Law Faculty of Zürich Univ.; admitted to bar, Zürich; joined Crédit Suisse 1944, Legal Adviser 1950, Man. 1963, Gen. Man 1969, Chair. Board 1977-. *Address:* Crédit Suisse, P.O. Box 590, 8021 Zürich, Switzerland. *Telephone:* 01-215 11 11.

AFANASIYEV, Georgiy Dmitriyevich; Soviet geologist; b. 17 March 1906, Novorossiysk; ed. Leningrad State Univ. Research work, Inst. of Petrology 1930; mem. CPSU 1948-; Head of Dept. of Gen. Petrography, U.S.S.R. Acad. of Sciences Inst. of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry 1950-; Sr. Scientific Assoc., Inst. of Geological Sciences of U.S.S.R. Acad. of Sciences 1937-56, Inst. of Ore Deposits, Petrography, Mineralogy and Geochemistry of U.S.S.R. Acad. of Sciences 1956-; Scientific Sec., Dept. of Geological and Geographical Sciences, U.S.S.R. Acad. of Sciences 1948-53; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-; Deputy Chief Scientific Sec., U.S.S.R. Acad. of Sciences 1958-; Asst. to Chief Editor of Proceedings of the U.S.S.R. Acad. of Sciences, Geological Series 1954-59, Chief Editor 1959-76; Vice-Pres. Comm. for Absolute Dating of Geological Formations 1962-63, Pres. 1963-; Pres. of the Petrographic Cttee. 1962-; Order of Lenin, Order of Red Banner of Labour, Badge of Honour, Order of Patriotic War. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

AFANASIYEV, Sergey Aleksandrovich; Soviet politician; b. 30 Aug. 1918, Novorossiysk, Krasnodar Territory; ed. Bauman Tech. Inst., Moscow. Engineer, Ministry of Armaments 1941-46; Dep. Head Dept. Ministry of Armaments of U.S.S.R. 1946-53; Head of Technological Bd. U.S.S.R. Ministry of Defence Industries 1953-57; Deputy Chair. Leningrad Council of Nat. Economy 1958-61; Chair. of R.S.F.S.R. Council of Nat. Economy, Deputy Chair. Council of Ministers R.S.F.S.R. 1961-65; U.S.S.R. Minister of General Machine Building 1965-; mem. Central Cttee. CPSU 1961-; Deputy to U.S.S.R. Supreme Soviet 1962-; U.S.S.R. State Prize, Order of Lenin (four) and other decorations. *Address:* Ministry of General Machine Building, Moscow, U.S.S.R.

AFANASIYEV, Viktor Grigorevich, PH.D.; Soviet journalist; b. 1922; ed. Chita Pedagogical Inst.; mem. CPSU 1943-; in Soviet Army 1940-53: Deputy Dir. Chelyabinsk Pedagogical Inst. 1953-59; Head, Dept. of Scientific Communism, Acad. of Social Sciences, of the Cen. Cttee., CPSU 1960-68; Corresp. mem. of the U.S.S.R. Acad. of Sciences; Deputy Editor-in-Chief, then first Deputy Editor in Chief, Pravda, 1968-74, Editor in Chief April 1976-; Editor in Chief, Kommunist (organ of the Cen. Cttee., CPSU) 1974-76; Chair. U.S.S.R. Union of Journalists April 1976-; mem. of the Cen. Cttee., CPSU 1976-; various decorations. *Address:* Pravda, Ul. Pravdy 24, Moscow, U.S.S.R. (Office).

AFERI, Maj.-Gen. Nathan A., D.S.O.; Ghanaian army officer and diplomatist; b. 21 Sept. 1922, Mampong-Akwapim; m.; five c.; ed. Achimota Coll. and Akropong Seminary. Education instructor, Gold Coast Regt., rising to Warrant Officer 1947; Army Chief Educ. Instructor 1947; trained at Officer Cadet Training School, Eaton Hall, Chester, England 1949; Lieut. British Army 1950, seconded to W. African Frontier Force; after further Army training in U.K., obtained PSC at Staff Coll., Camberley and JSSC at Staff Coll. Latimer, being first Ghanaian army officer to obtain these; rose to Co. Commdr., Ghana Army 1953-55, 2nd in Command, Rifle Co. 1957-58, Deputy Adjutant-Gen., Command HQ 1958-60, Lieut.-Col. in Command of 2nd Battalion of Infantry 1960; served Congo 1960-61; rose to Brig. and Commdr. 2nd Infantry Brigade 1961-65; Chief of Staff, Ministry of Defence 1962; Commdr. Northern Command 1962-65; Maj.-Gen., Chief of Defence Staff, Ghana Armed Forces, July 1965; retd. from army June 1966; Amb. to Mexico and Venezuela and High Commr. in Jamaica and Trinidad 1966-70; High Commr., Nigeria 1970; Commr. for Foreign Affairs Jan.-Nov. 1972, for Local Govt. 1972-75; served numerous dels. to Moscow, Canada, OAU Cttees., etc.; Honour of Merit, Egypt; Gold Aztec Eagle of Mexico (First Class). *Publication:* Careers in the Army 1968. *Leisure interests:* music, poetry reading, lawn tennis, driving, farming and gardening. *Address:* c/o Ministry of Local Government, Accra, Ghana.

AFFLECK, Raymond Tait, B. ARCH.; Canadian architect; b. 20 Nov. 1922, Penticton, B.C.; s. of Dr. John Earnest Affleck and Barbara (Tait) Affleck; m. Betty Ann Henley 1951; four s. one d.; ed. McGill Univ. Practising architect, Montreal 1955-; Partner Arcop Assocs., Montreal and Toronto; Visiting Prof. McGill Univ. 1965-; mem. Royal Canadian Acad.; Massey Medals in Architecture. *Publications:* Exhibitions and International Fairs as a Means of Mass Communications 1968, and several articles. *Leisure interests:* gardening, skiing, travel. *Address:* 1440 St. Catherine Street W., Montreal, P.Q. (Office); 16 St. George's Place, Montreal, P.Q., Canada (Home). *Telephone:* 878-3941; 488-1461.

AFLAK, Michel, LL.D.; Syrian politician and journalist; b. 1910, Damascus; ed. Greek-Orthodox Lyceum, Damascus, Univ. of Paris. Teacher in schools, Damascus; Founder Baath Arab Socialist Renaissance Party, Pres. 1940; founded Al Baath party newspaper 1946; Minister of Educ. 1954; emigrated to Lebanon 1966. *Publication:* Fi Sabil Al Baath 1959. *Address:* Beirut, Lebanon.

AFRAH, Maj.-Gen. Hussein Kulmia; Somali army officer and politician; b. 1920, Margeh; ed. Italian Secondary School, Mogadishu, and Italian Officers' Acad., Rome. Shopkeeper until 1943; joined Police Force 1945; criminal investigation training in Kenya 1945; then instructor and translator, Police Training School Mogadishu; at Italian Secondary School Mogadishu 1950-54, Italian Officers' Acad. 1954-55; ADC to fmr. Pres. Osman 1960; mem. Supreme Revolutionary Council 1970-76, Vice-Pres. 1973-76; Chair. Econ. Cttee. 1973; Sec. of State for the Interior 1970-74; Deputy Head of State and mem. Political Bureau, Somali Socialist Revolutionary Party (SSRP) July 1976-. *Address:* Somali Socialist Revolutionary Party Headquarters, Mogadishu, Somalia.

AFRIFA, Lieut.-Gen. Okatakyie Akawasi Amankwaa, C.V., D.S.O.; Ghanaian army officer and politician; b. 24 April 1936, Mampong, Ashanti; s. of John Kwaku Amankwaa Afrifa and Sophia Amma Seiwaa Amaniampong; m. Christine Susanna Addaquay 1968; two s. two d.; ed. Adisadel Coll., Cape Coast and Royal Military Acad., Sandhurst, England. Second Lieut. 1960; in command of rifle platoon, Congo 1960; Lieut. 1961, Platoon Commdr. 5th Infantry Battalion, Tamale, Ghana 1961; infantry courses in U.K. 1961, later served again in Congo; 1st Brigade H.Q., Ghana 1962, than 2nd Brigade, Kumasi; Maj. 1965; mem. Nat. Liberation Council in charge of Finance 1966-69; Chair. Nat. Liberation Council April-Sept. 1969; Chair. Presidential Comm. 1969-70; retd. from army 1970; mem. Council of State 1971-72; arrested Jan. 1972, released from political detention Dec. 1973. *Publication:* The Ghana Coup. *Leisure interests:* horse-riding, reading military history, participation in self-help projects.
[Died 26 June 1979.]

AFSHAR, Amir Aslan; Iranian diplomatist; b. 21 Nov. 1922, Teheran; m. Camilla Saed; one s. one d.; ed. Hindenburg High School, Berlin and Univs. of Berlin, Greifswald, Vienna and Geneva. Joined Ministry of Foreign Affairs 1948; Attaché, Iranian Embassy, Netherlands 1950-54; toured U.S.A. under Eisenhower Exchange Fellowship Program 1955-56; Rep. to Nat. Assembly 1956-61; Civil Adjutant to H.I.M. Shahanshah of Iran 1957; Pres. Iranian Shipping Lines 1960-63; Amb. to Austria 1967-69; Pres. Board of Govs., Int. Atomic Energy Agency, Vienna 1968-69; Amb. to U.S.A. 1969-73, also accred. to Mexico 1970-73; Amb. to Fed. Repub. of Germany 1973-77; Grand Master of Ceremonies to H.I.M. the Shah 1977-79; del. to UN Gen. Assembly 1957, 1958, 1959, 1960 and to several other int. confs.; Order of Homayoun and numerous other nat. and foreign decorations. *Publications:* in Persian: Ways and Means of Iran's Participation in International Organizations, God created the World, the Dutch built Holland; in German: Study of the

Constitution of the German Third Reich, Study of the Administrative Law of the German Reich, The Possibilities of the Expansion of the Iranian Economy; in English: Report on America.

AGA KHAN IV, H.H. Prince Karim, B.A.; spiritual leader and Imam of Ismaili Muslims; b. 13 Dec. 1936, Geneva; s. of late Prince Aly Salomon Khan and of Princess Joan Aly Khan; m. Sarah Frances Crichton-Stuart 1969; two s. one d.; ed. Le Rosey, Switzerland, Harvard Univ., U.S.A. Became Aga Khan on the death of his grandfather Sir Sultan Mohamed Shah, Aga Khan III, G.C.S.I., G.C.I.E., G.C.V.O., 1957; granted title of His Highness by Queen Elizabeth II 1957, of His Royal Highness by the Shah of Iran 1959; Commdr. Ordre du Mérite Mauritanien 1960; Grand Croix, Ordre Nat. de la Côte d'Ivoire 1965, Ordre Nat. de la Haute-Volta 1965; Ordre Nat. Malgache 1966, Ordre du Croissant Vert des Comores 1966; Grand Cordon Ordre du Tadj de l'Empire d'Iran 1967; Nishan-I-Imtiaz, Pakistan 1970; Hon. LL.D. (Peshawar Univ.) 1967, (Univ. of Sind) 1970. *Address:* 1 rue des Ursins, 75004 Paris, France. *Telephone:* 633-85-47.

AGA KHAN, Prince Sadruddin; Iranian UN official; b. 1933, Paris; s. of Sultan Mohammed Shah, Aga Khan III and Andrée Josephine Carron; m. 1st Nina Sheila Dyer 1957, 2nd Catherine Sursock 1972; ed. Harvard Univ. and Harvard Univ. Graduate School for Arts and Sciences. UNESCO Consultant for Afro-Asian Projects 1958; Head of Mission and Adviser to UN High Commr. for Refugees 1959-60; UNESCO Special Consultant to Dir.-Gen. 1961; Exec. Sec. Int. Action Cttee. for Preservation of Nubian Monuments 1961; UN Deputy High Commr. for Refugees 1962-65, High Commr. 1965-77; Consultant to Sec.-Gen. of UN 1978; Founder and Sec. Harvard Islamic Assen.; Pres. Council on Islamic Affairs, New York City; mem. Inst. of Differing Civilizations, Brussels; founder mem. and Pres. Groupe de Bellerive; mem. World Wildlife Fund; Commdr.'s Cross with Star of Order of Merit (Poland); Order of St. Sylvester The Pope; Order of Star of the Nile (Sudan); Order of Homayoun First Class; UN Human Rights Award 1978. *Publication:* The Paris Review. *Leisure interests:* Islamic art, primitive art, photography, sailing. *Address:* Château de Bellerive, Collonge-1245, Geneva, Switzerland.

AGAM, Yaacoy; Israeli artist; b. 1928, Rishon Letzon; m. Clila Agam 1954; two s. one d.; ed. Bezalel School of Art, Jerusalem, Atelier d'art abstrait, Paris. One-man exhbns. in Galerie Craven, Paris 1953, Galerie Denise René, Paris 1956, 1958, Palais des Beaux-Arts, Brussels 1958, Tel-Aviv Museum 1958, Suzanne Bollag Gallery, Zürich 1959, 1962, Drian Gallery, London 1959, Marlborough Gerson Gallery, New York 1966, Galerie Denise René, New York 1971; travelling retrospective exhbn. Paris, Amsterdam, Düsseldorf, Tel-Aviv 1972-73; numerous group exhbns. 1954-. *Works include:* Transformes Musicales 1961, Double Metamorphosis, Shalom Liner 1964, Sculptures in the City, Reims 1970, sculpture and mural, President's mansion, Israel 1971, Water-Fire fountain, St. Louis 1971, environment, Elysée Palace, Paris 1972, mobile wall, School of Science, Montpellier 1972, design and realization of a square in defence quarter, Paris, incl. water fountain and monumental sculpture 1973; films produced incl. Recherches et inventions 1956, Le désert chante, Microsalon (with I. Mambush) 1957. *Address:* 26 rue Boulard, Paris, France.

AGEE, William McReynolds, M.B.A.; American company executive; b. 5 Jan. 1938, Boise, Ida.; s. of Harold J. and Suzanne (McReynolds) Agee; m. Diane Weaver 1957; one s. two d.; ed. Stanford Univ., Boise Junior Coll., Univ. of Idaho, Harvard Univ.; with Boise Cascade Corpn. 1963-72; Senior Vice-Pres. and Chief Financial Officer, Bendix Corpn. 1972-76, Pres. and Chief Operating Officer 1976-77, Chair., Pres. and Chief Exec. Officer 1977-; Dir. Great Atlantic & Pacific Tea Co. Inc., ASARCO Inc., Equitable Life Assurance Soc. of U.S., Dow Jones & Co. Inc., Econ. Club of Detroit, Detroit Renaissance Inc., Nat. Council for U.S.-China Trade; mem. Conf. Board, Council on Foreign Relations, Business Roundtable, American and other insts. of CPAs; Hon. Dr. (Lawrence Inst. of Tech.) 1977, Hon. D.Sc. (Nathaniel Hawthorne Coll.) 1977. *Leisure interests:* tennis, golf, swimming. *Address:* The Bendix Corporation, Bendix Center, Southfield, Mich. 48076 (Office); Bloomfield Hills, Mich., U.S.A. (Home). *Telephone:* (313) 352-5060 (Office).

AGEYEV, Nikolay Vladimirovich, D.SC.; Soviet physical chemist; b. 30 June 1903, Tbilisi; ed. Leningrad Polytechnical Inst., Kaiser Wilhelm-Inst. für Metallforschung (Berlin-Dahlem). Docent, Leningrad Polytechnical Inst. 1930-38; Head of Lab., Inst. of Gen. and Inorganic Chem., U.S.S.R. Acad. of Sciences 1938-51; Prof. Gen. Chem. 1940-; mem. CPSU 1944-; Deputy Dir. Baikov Inst. of Metallurgy, U.S.S.R. Acad. of Sciences 1951-71, Dir. 1971-75; Head of Lab., Baikov Inst. of Metallurgy 1975-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-68, Academician 1968-; Pres. Scientific Council of Physical Chemical Bases of Metallurgical Processes, U.S.S.R. Acad. of Sciences; mem. Inst. of Metals (London) 1929-48, corresp. mem. to Council 1944-48; mem. Canadian Inst. Mining and Metallurgy 1973-; hon. mem. Iron and Steel Inst. of Japan 1975-; Editor-in-Chief, Problems of Contemporaneous Metallurgy 1951-62, Metallurgical Abstract 1953-, Phase Diagrams of Metallic Systems 1959-, U.S.S.R. Acad. of Sciences, Bulletin-Metals 1965-; Order of Lenin (twice), Order of October Revolution, Order of Red Banner (three times) and other decorations. *Publications:* X-Ray Metallography 1932, Thermal Analysis of Metals and Alloys 1936, The Chemistry of Metallic Alloys 1941, The Nature of Chemical Bond in Metallic Alloys 1947, and other works on metals and alloys. *Address:* A. A. Baikov Institute of Metallurgy, U.S.S.R. Academy of Sciences, Leninsky Prospekt 49, Moscow 117334, U.S.S.R. *Telephone:* 135-65-72.

AGNELLI, Giovanni; Italian industrialist; b. 12 March 1921, Turin; s. of Edoardo Agnelli and Princess Virginia Bourbon del Monte; brother of Umberto Agnelli (*q.v.*); m. Princess Marella Caracciolo di Castagneto 1953; one s. one d.; Grandson of Giovanni Agnelli, founder of F.I.A.T. (manufacturers of land, sea and air engines and vehicles); Vice-Chair. Fiat 1949-66, Chair. 1966-; Chair. Fiat-Allis Inc. 1973-; Chair. of R.I.V. (Factory at Villar Perosa), Istituto Finanziario Industriale (IFI), Fondazione Giovanni Agnelli; mem. Board Mediobanca, Turin Industrial Assen., Italian Stock Companies Assen., SKF of Sweden; mem. Int. Advisory Cttee. Chase Manhattan Bank, Int. Industrial Conf. of San Francisco, Atlantic Inst. for Int. Affairs; Mayor, Villar Perosa 1945; Cross for Military Valour. *Address:* Fiat S.p.A., 10 Corso Marconi, Turin (Office); Villa Frescot, Strada di San Vito, 256-Turin, Italy (Home). *Telephone:* 65651.

AGNELLI, Umberto, DR.JUR.; Italian motor executive; b. 1 Nov. 1934, Lausanne, Switzerland; s. of Edoardo Agnelli and Princess Virginia Bourbon del Monte; brother of Giovanni Agnelli (*q.v.*); m. Allegra Caracciolo 1974; two s.; ed. Univ. Turin. Pres. Federazione Nazionale Calcio 1959; Pres. and Dir. Società Assicuratrice Industriale (SAI) 1960-71; Pres., Chair. Fiat-France 1965-; Pres. Piaggio & Co. 1965-; Pres. TEXSID 1978-; Dir. IFI 1959-, RIV-SKF 1962-; Vice-Chair. Fiat 1966-; Man. Dir. Fiat S.p.a. 1972-76, Pres. Fiat Auto 1979-; mem. Senate (CD) 1976-79; Pres. IVECO; Chair. COMAU; mem. Confederazione Generale dell'Industria Italiana, Board Fondazione Agnelli, Board Chambre Syndicale des Constructeurs d'Automobiles, Advisory Cttee. First Nat. Bank of Chicago 1978; Grand Officer Order of Merit (Italy). *Publications:* numerous articles in journals and econ. reviews. *Address:* Fiat S.p.a., Corso Marconi 10, Turin, Italy. *Telephone:* 658036.

AGNEW, Spiro Theodore, LL.B.; American lawyer and politician; b. 9 Nov. 1918, Baltimore, Md.; s. of Theodore Spiro Agnew and Margaret Akers Agnew (family name was Anagnostopoulos); m. Elinor Isabel Judefind 1942; one s. three d.; ed. Baltimore public schools, Johns Hopkins Univ. and Univ. of Baltimore. Army officer, served France and Germany, Second World War; legal studies 1947; Mil. service, Korean War; joined private law firm 1952, later established own law office in Baltimore; Chief Exec., Baltimore County 1962-66; Gov. of Maryland 1967-69; Vice-Pres. of the United States 1969-73, resigned; Republican. *Publication:* The Canfield Decision 1976. *Leisure interests:* tennis, golf, reading, music. *Address:* Kenwood, Chevy Chase, Md. 20015, U.S.A.

AGO, Roberto, C.B.E., LL.D., P.S.D.; Italian university professor; b. 26 May 1907, Vigevano, Pavia; s. of late Gen. Pietro Ago and Maria Marini; m. Luciana Cova 1936; three s. two d.; ed. Univ. of Naples. Lecturer in Int. Law, Univ. of Cagliari 1930-33, Univ. of Messina 1933-34; Prof. of Int. Law, Univ. of Catania 1934, Univ. of Genoa 1935, Milan Univ. 1938, Rome Univ. 1956; Pres. Italian Soc. for Int. Organization; Italian Del. to ILO Conf. 1945-, to UNESCO 1949-50, Law of Sea Conf. 1958-60, Vienna Conf. on Diplomatic Relations 1961; Pres. Vienna Conf. Law of Treaties 1968-69; mem. Comm. for drafting European Constitution 1952; Chair. Gov. Board ILO 1954-55, 1967-68; mem. and fmr. Pres. Int. Law Comm. of UN 1957-; mem. Perm. Court of Arbitration 1957-; Hon. Pres. World Fed. of UN Assens.; Judge *ad hoc*, Int. Court of Justice 1959-60, Judge 1979-; Pres. Curatorium Hague Acad. of Int. Law, Arbitration Tribunal France-Germany, France-U.S.A.; mem. and Pres. numerous other int. tribunals and conciliation comms.; mem. and Vice-Pres. Inst. de Droit Int.; mem. American Acad. of Political and Social Sciences, Inst. Hellénique Droit Int., Accademia dei Lincei, Société Royale de Belgique; Hon. mem. Indian Soc. Int. Law, American Soc. Int. Law; Grand Croix, Order of Merit (Italy), Order of Merit (Fed. Germany); Officier Légion d'honneur, Hon. C.B.E.; Dr. h.c. (Nancy, Nice, Paris). *Publications:* Teoria del diritto internazionale privato 1934, Il requisito dell'effettività dell'occupazione in diritto internazionale 1934, Règles générales

des conflits de lois 1936, La responsabilità indiretta in diritto internazionale 1936, Lezioni di diritto internazionale privato 1939, Le délit international 1939, Lezioni di diritto internazionale 1943, Scienza giuridica e diritto internazionale 1950, Diritto positivo e diritto internazionale 1956, International Organisations and their Functions in the Field of Internal Activities of States 1957, Positive Law and International Law 1957, Il Trattato istitutivo dell' Euratom 1961, The State and International Organisation 1963, La responsabilité internationale des états 1963, La qualité de l'état pour agir en matière de protection diplomatique des sociétés 1964, Le Nazioni Unite per il diritto internazionale 1965, La coopération internationale dans le domaine du droit international public 1966, La codification du droit international et les problèmes de sa réalisation 1968, Sur la protection diplomatique des personnes morales 1969, La fase conclusiva dell'opera di codificazione del diritto internazionale 1969, Premier, deuxième, troisième, quatrième, cinquième et sixième rapport à la C.D.I. sur la responsabilité des Etats 1969-77, Nazioni Unite: venticinque anni dopo 1970, Droit des traités à la lumière de la Convention de Vienne 1971, Caratteri generali della communità internazionale e del SUO diritto 1974-75, Eccezioni "non esclusivamente preliminari" 1975, Il pluralismo della communità internazionale alle sue origini 1977, Studi sulla responsabilità internazionale 1978. *Leisure interests:* collecting modern paintings, gardening. *Address:* 143 Via della Mendola, Rome, Italy. *Telephone:* 32-42-31.

AGOSHKOV, Mikhail Ivanovich; Soviet mining specialist; b. 12 Nov. 1905, Petrovsk-Zabaikalsky, Chita Region; ed. Far East Polytechnic Inst., Vladivostock. Lecturer, Far East Polytechnic Inst. 1931-33; Dean, North Caucasian Inst. of Mines and Metallurgy 1933-41; Asst. Dir. Inst. of Mines, U.S.S.R. Acad. of Sciences 1941-58; mem. CPSU 1943-; Head, Lab. of Mining Inst., U.S.S.R. Acad. of Sciences 1954-; Prof. Inst. of Nonferrous Metals 1951-; Deputy Chief Learned Sec., U.S.S.R. Acad. of Sciences 1957; Corresp. mem. U.S.S.R. Acad. of Sciences 1953; four Orders; State prizewinner 1951. *Publications:* Mining of Ore Deposits 1945, Methods of Estimating Output of Metal Mines 1949, Research of Technological Processes of Underground Mining 1959, Mining Methods of Vein Type Deposits 1960, Mining of Ore and Placer Deposits 1962, Underground Working of Ore Deposits 1966. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

AGRANAT, Simon, LL.D.; Israeli judge; b. 1906, U.S.A.; ed. Chicago Univ. Settled in Palestine 1930; law practice 1931-40; Magistrate 1940-48; Pres. District Court, Haifa 1948-50; Judge Supreme Court 1950-, Deputy Pres. 1961-66, Pres. 1966-76; mem. Perm. Court of Arbitration (The Hague) 1962-68; Chair. Inquiry Comm., Yom Kippur War 1974. *Address:* 62 Nayot Street, Rehavia, Jerusalem, Israel.

AGRAWAL, Prabhu Lal; Indian engineer and business executive; b. 22 Oct. 1926, Udaipur, Rajasthan; s. of Shri Trilok Chand Agrawal; m. Pushpa Devi 1948; one s. one d.; ed. Banaras Hindu Univ. and Univ. of Sheffield. Lecturer, College of Mining and Metallurgy, Banaras Hindu Univ., then Asst. Prof., 1947-56; Tech. Officer Rourkela Steel Plant, then Sr. Fuel Engineer, then Asst. Chief Fuel Engineer, then Supt. Eng. Econs. Dept., then Chief Supt., 1956-65, Asst. General Supt. 1969, Gen. Man. 1971-76, Man. Dir. 1976-78; Gen. Supt. Alloy Steels Plant 1969-70; Gen. Supt. Bokaro Steel Plant 1970-71; Chair. Steel Authority of India 1978–; Holker Fellow, Banaras Hindu Univ.; Uttar Pradesh Prize for Audyogik Indhan; Nat. Metallurgists Day Award. *Publications:* Audyogik Indhan (Hindi); several technical papers and reports. *Leisure interests:* reading, writing. *Address:* Steel Authority of India Ltd., Hindustan Times House, Kasturba Gandhi Marg, N. Delhi 110001 (Office); C-441, Defence Colony, New Delhi 110024, India (Home). *Telephone:* 388350/388450 (Office); 622906 (Home).

AGRAWALA, Vasudeva Sharan, PH.D., D.LITT.; Indian university professor and writer; b. Aug. 1904; ed. Banaras Hindu Univ. and Lucknow Univ. Curator, Mathura Museum 1931-39, Lucknow Museum 1940-45; Supt. Nat. Museum and Nat. Museum Branch of Archaeological Survey of India, New Delhi 1946-51; Prof. and Head of Dept. of Art and Architecture, Coll. of Indology, Banaras Hindu Univ. 1951-; Pres. Museums Assen. of India and other historical assens.; Pres. All-India Prakrit Text Soc. 1964-. *Publications:* A Revised Catalogue of Mathura Museum 1950, India as Known to Panini 1953, Paninikalina Bharatavarsha 1955, Jayasi's Padamavata 1955, Kadambari: A Cultural Study 1958, Prithiviputra, or Essays on Indian Culture 1960, Sparks from the Vedic Fire 1962, The Thousand-Syllabled Speech of Vedic Symbolism, Vol. I 1963, Vidyapati's Kirtilata 1962, Matsya Purana: A Study 1963, Devi Mahatmya: Glorification of the Great Goddess 1963, Solar Symbolism of the Boar 1963, Vedic Lectures 1963, Harshacharita: A Cultural Commentary 1964, Vamana Purana: A Study 1964, Bharata Savitri, Vol. I 1957, Vol. II 1964, Chakradhvaja: The Wheel Flag of India 1964, Ancient Indian Folk-Cults 1964, Divyavadana 1965, Indian Art 1965, Heritage of Indian Art 1971. *Address:* Department of Art and Architecture, College of Indology, Banaras Hindu University, Varanasi 5, India.

AGT, Andries A. M. van; Netherlands politician; b. 2 Feb. 1931, Geldrop; s. of Frans van Agt and Anna Frencken; m. Eugenie Krekelberg 1958; one s. two d.; ed. Catholic Univ., Nijmegen. Worked at Ministry of Agriculture and Fisheries, then Ministry of Justice 1958-68; Prof. of Penal Law, Univ. of Nijmegen 1968-; Minister of Justice 1971-77; Deputy Prime Minister 1973-77; Prime Minister Dec. 1977-; Catholic People's Party. *Leisure interest:* tennis. *Address:* Office of the Prime Minister, The Hague; Joanneslaan 10, Nijmegen, Netherlands.

AGUILAR MAWDSLEY, Andrés; Venezuelan diplomatist and lawyer; b. 10 July 1924, Caracas; ed. Univ. Central de Venezuela, Caracas and McGill Univ., Montreal. Teacher of Civil Law, Univ. Central de Venezuela 1948, Prof. of Law 1958-; Teacher of Civil Law, Univ. Católica Andrés Bello, Caracas 1954, Prof. 1958, Vice-Rector 1962-63; legal adviser to Venezuela Chamber of Building 1957-58; mem. Gov. Board, Banco Industrial de Venezuela 1958-59; Minister of Justice until 1963; Perm. Rep. to European Office of the UN, Geneva 1963-65; mem. several ILO cttees. and Pres. ILO Conf. 1964; Pres. of Council of ICEM 1964-65; Head of Venezuelan Del. to Int. Conf. on Human Rights, Teheran 1968; Pres. Nat. Gov. Bd. of Caritas 1966-69; mem. Gov. Bd. Inst. of Higher Studies in Admin. 1966; Chair. Nat. Council of Int. Council on Social Welfare 1968; Pres. Venezuelan Assen. for UN 1967-68; has held posts in several orgs. concerned with social welfare and educ.; Perm. Rep. to UN 1969-72; Amb. to U.S.A. 1972-74; mem. Inter-American Comm. on Human Rights 1972-, Chair. 1976-; mem. Panel of Legal Experts of INTELSAT 1974. *Publications:* Possession in the Civil Law of the Province of Quebec (in French), La responsabilidad contractual del arquitecto y del empresario por vicios y defectos de la obra, Protectión familiar, La delincuencia en Venezuela: Su prevención, La obligación de alimentos en derecho venezolano; articles on legal subjects published in specialized journals. *Address:* c/o Ministerio de Relaciones Exteriores, Casa Amarilla, esq. Principal, Caracas, Venezuela.

AGUIRRE OBARRIO, Eduardo Enrique, DR. EN DERECHO; Argentine lawyer and politician; b. 14 May 1923, Berlin, Germany; s. of Luis M. Aguirre and Analía María Obarrio de Aguirre; m. Diana María Braceras Santamarina; two s. two d.; ed. Univ. de Buenos Aires. Adviser/Consultant, Ministry of Interior 1955, Gen. Assessor 1955-57 and Deputy Departmental Dir. 1957; Deputy Sec. of Nat. Defence 1962; majority leader in the Senate 1963-65; Private Sec. to Minister of Justice 1967-70; Under-Sec. of Justice 1970-71; Pres. of Caja Fed. de Ahorro y Préstamo para la Vivienda (Fed. Housing Savings and Lending Bank) 1972; Minister of Defence 1972-73; Prof. of Criminal Law, Univ. de Buenos Aires 1956-; Gran Cruz del Condor de los Andes (Bolivia). *Publications:* various legal publications. *Leisure interests:* tennis, chess, bridge, piano. *Address:* Sánchez de Bustamante 2657/59, 1° Buenos Aires, Argentina. *Telephone:* 83-4858.

ÁGÚSTSSON, Einar; Icelandic politician; b. 23 Sept. 1922, Rangárvallasýsla; m. Thórunn Sigurdardóttir; one s. two d.; ed. Univ. of Iceland. Officer, Financial Council 1947-54, Finance Ministry 1954-57; Gen. Man. Co-operative Savings Bank 1957-63; Dir. Co-operative Bank of Iceland 1963-71; mem. Cen. Cttee. Progressive Party 1958-, Vice-Pres. 1968-; mem. Reykjavík City Council 1962-71; mem. Althing 1963-; Minister of Foreign Affairs 1971-78; Commdr. with Star of the Order of the Falcon (Iceland), Grand Cross White Rose (Finland), Grand Cross Dannebrog (Denmark), Grand Cross St. Olav (Norway), Grand Cross Polar Star (Sweden). *Address:* Hlyngerdi 9, Reykjavík, Iceland (Home). *Telephone:* 3-04-36.

AHIDJO, Ahmadou; Cameroonian politician; b. 24 Aug. 1924, Garoua; ed. Ecole Supérieure d'Administration, Yaoundé. Began career in radio admin.; elected as Rep. to Representative Assembly of Cameroon 1947; fmr. Sec. of Ass., Pres. Admin. Affairs Comm., Vice-Pres.; Counsellor Ass. of the French Union 1955-58, fmr. Sec.; Pres. Territorial Ass. of Cameroon 1956-57; Minister of the Interior 1957-59; Deputy Prime Minister 1957-58; Prime Minister 1958-59; Prime Minister and Minister of the Interior, independent state of Cameroon Jan.-May 1960; Pres. Repub. of Cameroon May 1960-61, of the Fed. Repub. of Cameroon 1961-72, United Repub. of Cameroon 1972-; Pres. Union Nationale Camerounaise (UNC); 1966-; Chair. OAU Assembly of Heads of State 1969, Pres. UDEAC Council of Heads of State 1970, 1978; Grand Croix, Légion d'honneur, Grand Insignia, Order of the Star of Africa, Knight Order of the Black Star of Benin. *Address:* Présidence de la République, Yaoundé, Cameroon.

AHLERS, Conrad; German journalist and government official; b. 8 Nov. 1922, Hamburg; s. of Adolf and Gertrud (née Krancke) Ahlers; m. Heilwig von der Mehden 1949; one s. two d.; ed. Gymnasium and Univ. of Hamburg. Editor, German service of BBC, London 1948-49; Editor, Sonntagsblatt 1949-51; Duty Information Officer, Press and Information Office of Fed. Govt., subsequently Press Adviser, Blank Office (now Ministry of Defence) 1951-53; Foreign Policy Editor, Die Welt 1953-56; Head, Bonn Office, Der Spiegel 1956-59; Home Policy Editor, Frankfurter Rundschau 1959-62; Deputy Editor-in-Chief, Der Spiegel 1962-66; Deputy Head, Press and Information Office of Fed. Govt. 1966-69, State Sec., Govt. Spokesman and Head 1969-72; mem. Bundestag 1972-; Head of Publs., Friedrich-Krupp Stiftung 1973-. *Address:* 53 Bonn-Ippendorf, Ippendorfer Allee 8, Federal Republic of Germany.

AHLFORS, Lars Valerian, PH.D., LL.D.; American professor of mathematics; b. 18 April 1907, Helsinki, Finland; s. of Karl Ahlfors and Sieva Helander; m. Erna Lehnert 1933; three d.; ed. Univ. of Helsinki. Lecturer, Harvard Univ. 1935-38; Prof., Univ. of Helsinki 1939-44, Univ. of Zürich 1945-46; Prof. of Mathematics, Harvard Univ. 1946-, W. C. Graustein Prof. 1964-77, Prof. Emer. 1977-; mem. N.A.S.; Fields Medal for Mathematics, Vihuri Int. Prize. *Publications:* Complex Analysis 1953, Riemann Surfaces (with L. Sario) 1960, Quasiconformal Mappings 1966, and many articles on mathematical analysis. *Address:* Department of Mathematics, Harvard University, Cambridge, Mass. 02138, U.S.A.

AHLMARK, Per, B.A.; Swedish politician; b. 15 Jan. 1939, Stockholm; s. of Prof. Axel Ahlmark; m., (divorced); one s. one d.; m. 2nd Bibi Andersen 1978. Leader of Young Liberals 1960-62; journalist for Expressen; mem. Parl. 1967-78; Chair. Folkpartiet (Liberal Party) 1975-78; Deputy Prime Minister and Minister of Labour 1976-78; Chair. Swedish Film Inst. 1978-. *Publications:* several books and numerous articles. *Leisure interests:* films, books, tennis. *Address:* Bellmansgatan 22B, 11647 Stockholm, Sweden.

AHMAD, Maj.-Gen. Mohammed al-Baqir; Sudanese army officer and politician; b. 1927, El Sofi; m.; four s. one d.; ed. Commercial Secondary School, Khartoum, Military Coll. and Cairo Univ. Commissioned 1950; Chief of Staff, Southern Command 1958; Mil. Gov. Upper Nile Province 1959; Mil. Attaché, London 1960-67; Dir. of Training and Chief of Staff, Southern Command 1968; Commdr. Mil. Coll. 1968-69; Under-Sec. Ministry of Defence June-Dec. 1969; First Deputy Chief of Staff of Armed Forces 1969-70, Chief of Staff 1970-71; Minister of the Interior 1971-73, Jan.-Aug. 1975; First Vice-Pres. of Sudan 1972-77; mem. Council, Univ. of Khartoum; del. to several int. confs.; several decorations. *Address:* c/o Office of the Vice-President, Khartoum, Sudan.

AHMADU-SUKA, Osman; Nigerian diplomatist; b. 22 Sept. 1926, Wara, Sokoto; ed. Achimota Coll., Ghana, Loughborough Training Coll., England, Univs. of London and Columbia. Education Service, Sokoto Native Authority and Govt. of Northern Nigeria 1946-59; Premier's Office, Kaduna 1960-62; First Sec. (Educ.), High Comm., U.K. 1962-64; Counsellor and Head of Chancery, Embassy, U.S.A. 1964-66; Consul-Gen. in New York 1966-68; Amb. to Egypt 1968-73, to Netherlands 1973-75; High Commr. to U.K. 1975-76; Rep., Commonwealth Liaison Cttee. 1962-64; Alt. Perm. Rep. to UNESCO 1962-64. *Address:* c/o Ministry of Foreign Affairs, Lagos, Nigeria.

AHMED, Aziz, O.B.E.; Pakistani civil servant, politician and diplomatist; b. 24 June 1906, Lahore; s. of Ghulam Dastgir and Bashir Begum; m. Shereen Shujat Ali 1939; two s. two d.; ed. Punjab Univ. and Cambridge Univ. Sub-Divisional Officer, Bengal 1934-37; Dir. Debt Conciliation Bengal 1932-35, Deputy Registrar Co-op. Socs., Bengal 1935-37; District Magistrate, Raj Shahi District 1939-41; Registrar Co-op. Socs., Bengal 1941-43; Dir. Procurement, Dept. of Civil Supplies, Bengal 1943-44, Joint-Sec. (Planning) 1944-46; Deputy Sec. Indian Dept. of Agriculture 1946-47; Chief Sec. to Govt. of E. Pakistan 1947-52; Sec. to Cabinet, Central Govt., Pakistan 1952-56; Sec. to Commerce and Refugees Rehabilitation Ministries, then Sec.-Gen. to Govt. of Pakistan 1956-59; Amb. to U.S.A. 1959-63; Sec. to Govt. of Pakistan, Ministry of Foreign Affairs 1963-66; Chair. Press Trust of Pakistan 1967-70; Sec.-Gen. Ministry of Foreign Affairs 1971-73; Minister of State for Foreign Affairs and Defence 1973-77; Minister of Foreign Affairs March-July 1977; Hilal-i-Pakistan, Hilal-i-Quaid-i-Azam, Sitara-i-Pakistan. *Leisure interests:* reading, writing, music. *Address:* 55 Clifton, Karachi-6, Pakistan. *Telephone:* Karachi 531687.

AHMED, Khandakar Moshtaque; Bangladesh lawyer and politician; b. 1918; ed. Dacca Univ.; joined Quit India movement 1942; imprisoned 1946; collaborated with Sheikh Mujibur Rahman in Bengali language movement, later in Awami League; imprisoned several times by Pakistan authorities; Minister of Foreign Affairs, Law and Parliamentary Affairs in Govt. of Bangladesh April-Dec. 1971 (in exile in India), of Law, Parliamentary Affairs and Land Revenue 1971-72, of Power, Irrigation and Flood Control 1972-74, of Trade and Commerce 1974-75; Pres. of Bangladesh, also Minister of Defence and Home Affairs Aug.-Nov. 1975; detained Nov. 1976; sentenced to 5 years' imprisonment Feb. 1977, to additional 3 years for corruption and abuse of power April 1977.

AHO, Lauri Emil, M.A.; Finnish politician and journalist; b. 28 July 1901, Pyhäjärvi; s. of Dir. Johan Emil Aho and Hilda Sofia Åkman; m. Sisko Aira Kyllikki Heikkilä 1931 (died 1967); three s.; ed. Helsinki Univ. Literary Dir., K. J. Gummerus Publishing Co. 1931-34; Asst. Editor-in-Chief Uusi Suomi 1934-37; Official, Employers' Asscn. 1937-40; Editor-in-Chief Uusi Suomi 1940-56; Chair. Helsinki City Council 1953-56; Mayor of Helsinki 1956-68; Pres. Asscn. of Finnish Cities 1958-67; Political columnist Uusi Suomi 1968-; mem. Int. Press Inst.; Hon. Ph.D. (Helsinki Univ.) 1973; Elector of the Pres. of the Repub. 1978 and numerous Finnish and foreign decorations. *Publications:* Collections of political essays. *Address:* Kaartintorpantie 6A, Helsinki, Finland. *Telephone:* 485085.

AHOMADEGBÉ, Justin Tometin; Benin politician; b. 1917; ed. William Ponty School, Dakar, and School of Medicine, Dakar; medical work, Cotonou, Porto-Novo 1944-47; mem. Gen. Council, Dahomey 1947, Sec.-Gen. Bloc Populaire Africain; Sec.-Gen. Union Démocratique Dahoméenne (UDD) 1956; mem. Grand Council, A.O.F. 1957; mem. Dahomey Legislative Ass. 1959, Pres. 1959-60; medical work 1960-61; imprisoned 1961-62; Minister of Health, Public Works and Nat. Education 1963; Vice-Pres. of Dahomey, Pres. of Council of Ministers and Minister in Charge of Interior, Defence, Security and Information 1964-65, also in charge of the Plan 1965; mem. Presidential Council 1970-72; Head of State May-Oct. 1972. *Address:* c/o Ministry of Justice, Cotonou, Benin.

AICHINGER, Ilse; German and Austrian writer; b. 1 Nov. 1921, Vienna; m. Günter Eich (died 1972); ed. high school and Universität Wien; formerly worked with Inge Scholl at Hochschule für Gestaltung, Ulm; later worked as ■ reader for S. Fischer (publishers), Frankfurt and Vienna; Förderungspreis des Österreichischen Staatspreises 1952, Preis der Gruppe 47 1952, Literaturpreis der Freien und Hansestadt Bremen 1954, Immermannpreis der Stadt Düsseldorf 1955, Literaturpreis der Bayerischen Akademie 1961, Ny-ell Sachs-Preis, Dortmund 1971, City of Vienna Literature Prize 1974. *Publications:* Die Grössere Hoffnung (novel) 1948, Knöpfe (radio play) 1952, Der Gefesselte (short stories) 1953, Zu keiner Stunde (dialogues) 1957, Besuch im Pfarrhaus (radio play) 1961, Wo ich wohne (stories, dialogues, poems) 1963, Eliza, Eliza (stories) 1965, Nachricht von Tag (stories) 1970. *Address:* 8232 Bayerisch Gmain, Postfach 27, Federal Republic of Germany.

AIKEN, Frank; Irish politician; b. 13 Feb. 1898, Camlough, Co. Armagh; s. of James Aiken and Mary McGeeney; m. Maud David 1934; two s. one d.; ed. Christian Brothers' School, Newry; active in Volunteers and Gaelic League 1913; Commdr. Northern Div. I.R.A. 1921; participated in negotiations resulting in Collins-de Valera pact; Chief of Staff I.R.A. 1923-25; mem. Dáil for Co. Louth 1923-73; Minister for Defence 1932-39; Minister for Co-ordination of Defence 1939-45; Minister for Finance 1945-48; Minister for External Affairs 1951-54 and 1957-69; Tánaiste (Deputy Prime Minister) 1965-69; fmr. Vice-Pres. Ass. Council of Europe; Grand Cross of Pian Order, Grand Cross Order of Merit (Fed. Germany), Grand Officer Order of St. Charles; Hon. LL.D. (Nat. Univ. of Ireland); Fianna Fáil. *Address:* "Dúngaoithe", Sandyford, Co. Dublin, Ireland.

AILES, Stephen; American lawyer; b. 25 March 1912, Romney, W. Va.; s. of Eugene E. Ailes and Sallie Cornwell Ailes; m. Helen Wales 1939; three s. one d.; ed. Episcopal High School, Alexandria, Va., Princeton Univ., and West Virginia Univ. Law School. Asst. Prof. of Law, West Virginia Univ. 1937-40; private legal practice 1940-42; Legal Staff, Office of Price Admin. 1942-46; partner in law firm Steptoe & Johnson, Washington, D.C. 1948-, (excepting leave of absence); Counsel, American Econ. Mission to Greece 1947; Under-Sec. of Army 1961-64; Sec. of the Army 1964-65; Pres. and Chief Exec. Officer Assn. of American Railroads 1971-77. *Address:* Steptoe & Johnson, 1250 Connecticut Avenue, N.W., Washington, D.C. 20036 (Office); 4521 Wetherill Road, Washington, D.C. 20016, U.S.A. (Home). *Telephone:* 202-862-2078 (Office).

AILLERET, Pierre Marie Jean; French engineer; b. 10 March 1900, Vienne en Arthies (S. et O.); s. of Amédée Ailleret and Angèle Devaine; m. Denise Nodé-Langlois 1935; three s. three d.; ed. Lycée Carnot, Ecole Polytechnique, Paris. Prof. Ecole Nationale des Ponts et Chaussées 1938-70; Dir. Studies and Research, Electricité de France 1946-59, Asst. Dir.-Gen. 1959-66, Scientific and Tech. Counsellor 1967-70; Pres. Training Council, Conservatoire nationale des

arts et métiers 1963-75; mem. Atomic Energy Cttee. 1951-67; Pres. Union technique de l'électricité 1958-75, Hon. Pres. 1975-; fmr. Vice-Pres. Assn. Française de normalisation, Hon. Pres. 1976-; Admin. Sociedad hispano-francesa de energía nuclear; Vice-Pres. Comité technique de l'électricité; Pres. Société française des électriciens 1948, Soc. des ingénieurs civils de France 1957; Commdr. Légion d'honneur. *Address:* 12 place des Etats-Unis, 75116 Paris (Office); 34 rue des Vignes, 75016, Paris, France (Home).

AINI, Mohsen Ahmed al-; Yemeni politician and diplomatist; b. 1932, N. Yemen; ed. Faculty of Law, Cairo Univ. and the Sorbonne, Paris. School-teacher, Aden 1958-60; Int. Confederation of Arab Trade Unions 1960-62; Minister of Foreign Affairs, Yemeni Repub. Sept.-Dec. 1962; Perm. Rep. to UN 1962-65, 1965-66, 1967-69; Minister of Foreign Affairs May-July 1965; Prime Minister Nov.-Dec. 1967; Amb. to U.S.S.R. 1968-70; Prime Minister, Minister of Foreign Affairs Feb. 1970-Feb. 1971, Sept. 1971-Dec. 1972, June 1974-Jan. 1975; Amb. to France Aug.-Sept. 1971, 1975-76, to U.K. 1973-74. *Address:* c/o Ministry of Foreign Affairs, Sana'a, Yemen Arab Republic.

AIRLIE, 13th Earl of, **David George Coke Patrick Ogilvy;** British merchant banker; b. 17 May 1926, London; s. of 12th Earl of Airlie, K.T., G.C.V.O., M.C., and Lady Alexandra Marie Bridget Coke; m. Virginia Fortune Ryan 1952; three s. three d.; ed. Eton Coll. Chair. Schroders Ltd. 1977-, Ashdown Investment Trust Ltd. 1968–, J. Henry Schroder Bank AG (Switzerland) 1977-; Deputy Chair. General Accident Fire and Life Assurance Corpn. Ltd. 1975-; Dir. J. Henry Schroder Wagg & Co. Ltd. 1961-, Schroder, Darling and Co. Ltd. (Australia) 1977-, Schroders Inc. (U.S.A.) 1977-, Schroder Int. Ltd. 1973-, Scottish & Newcastle Breweries Ltd. 1969-, The Trading Investment Co. Ltd. 1963-; D.L. (Angus) 1964. *Address:* 13 St. Leonards Terrace, Chelsea, London, S.W.3; Cortachy Castle, by Kirriemuir, Angus, Scotland. *Telephone:* 01-730 8741; Cortachy 231.

AITKEN, Sir (John William) Max, Bart., D.S.O., D.F.C.; British newspaper executive; b. 15 Feb. 1910, Montreal, P.Q., Canada; one s. three d.; ed. Westminster School and Pembroke Coll., Cambridge. Royal Air Force 1939-45; Conservative M.P. 1945-50; Chair. Beaverbrook Newspapers Ltd. 1964-77, Life Pres. 1977-; Life Pres. Express Newspapers Ltd.; Dir. Assoc. Television Ltd.; Pres. Newspaper Press Fund 1965-; Chair. Beaverbrook Foundation; Chancellor Univ. of New Brunswick 1966-; renounced peerage but succeeded to the baronetcy of Sir Max Aitken (later Lord Beaverbrook) June 1964; Hon. LL.D.(New Brunswick). *Address:* 46 Chelsea Square, London, S.W.3., England. *Telephone:* 01-351 0116.

AITKEN, Sir Robert Stevenson, M.D., D.PHIL., F.R.C.P., F.R.C.P.E., F.R.A.C.P.; British physician; b. 16 April 1901, Wyndham, N.Z.; m. Margaret G. Kane 1929; one s. two d.; ed. N.Z. schools, Univs. of Otago and Oxford. London Hospital 1926-34; Reader in Medicine, British Postgraduate Medical School, Univ. of London 1935-38; Regius Prof. of Medicine Univ. of Aberdeen 1939-48; Vice-Chancellor, Univ. of Otago, N.Z. 1948-53; Vice-Chancellor Univ. of Birmingham 1953-68; Deputy Chair. Univ. Grants Cttee. 1968-73; Chair. Birmingham Repertory Theatre 1961-74; Hon. LL.D. (Dalhousie, Melbourne, Panjab, McGill, Pennsylvania, Aberdeen, Newfoundland, Leicester, Birmingham, Otago), Hon. D.C.L. (Oxon.), Hon. D.Sc. (Sydney, Liverpool). *Address:* 6 Hintlesham Avenue, Birmingham B15 2PH, England.

AITMATOV, Chingiz Torekulovich; Soviet writer; b. 12 Dec. 1928, Sheker Village, Kirghizia; ed. Kirghiz Agricultural Inst.; writer 1952-; mem. CPSU 1959-; First Sec. of Cinema Union of Kirghiz S.S.R. 1964-69, Chair. 1969-; Candidate mem. Central Cttee. of CP of Kirghiz S.S.R.; People's Writer of Kirghiz S.S.R. 1968; Vice-Chair. Cttee. of Solidarity with Peoples of Asian and African Countries; Deputy to U.S.S.R. Supreme Soviet; Order of Red Banner of Labour (twice); Lenin Prize for Tales of the Hills and the Steppes 1963; State prizewinner 1968, Hero of Socialist Labour 1978. *Publications include:* stories: Face to Face, Short Stories, Melody 1961, Tales of the Hills and the Steppes 1963; Stories 1967; novels: Djamilya 1959, My Poplar in ■ Red Kerchief 1960, Camel's Eye, The First Teacher, Farewell Gulsary; Native Country 1966, The White Steamship (English trans. 1972), The Lament of the Migrating Bird (English trans. 1972). *Address:* Kirghiz Branch of Union of Writers of U.S.S.R., Ulitsa Pushkina 52, Frunze, U.S.S.R.

AJMANI, Jagdish Chand, B.A.; Indian diplomatist; b. 4 April 1930, Simla; ed. Modern School and MB Higher Secondary School, Delhi, St. Stephen's Coll., Delhi Univ. and Brasenose Coll., Oxford; joined Foreign service 1952; Third Sec. and Second Sec., Cairo 1955-57; Official Sec., Canberra 1957-60; First Sec., Baghdad 1960-63; Dir., Ministry of External Affairs 1963-67; Counsellor Tokyo 1967-69; attended Nat. Defence Coll., New Delhi 1970; Consul-Gen., Berlin and later Amb. to German Democratic Repub. 1974-77; High Commr. in Australia June 1977-. *Address:* Indian High Commission, 34 Mugga Way, Red Hill, Canberra, A.C.T. 2603 (Office); 92 Mugga Way, Red Hill, Canberra, A.C.T. 2603, Australia (Residence).

AJOSE-ADEOGUN, Mobolaji, J.P., F.C.I.S.; Nigerian government official and fmr. petroleum executive; b. 12 May 1927, Lagos; ed. C.M.S. Grammar School, Lagos, Univ. Coll. and S.O.A.S., Univ. of London. Barclays Bank, D.C.O., Lagos 1947-50; Transport Man., General Motors Ltd., Leyton, London 1954; Higher Clerical Officer, Hackney Borough Council, London 1955; joined Shell Nigeria Ltd. 1955, Dir. 1971-75, Admin. Man. 1971-75; Fed. Commr. for Co-operatives and Supply 1975-76; Fed. Commr. on Special Duty, Chair. Fed. Capital Devt. Authority March 1976-; J.P., Lagos State 1975-; mem. Inst. of Personnel Man., London, Inst. of Public Relations, London, Nigerian Inst. of Man. 1966-, Nigerian Inst. of Int. Affairs 1967-. *Address:* Federal Capital Development Authority, Lagos, Nigeria.

AJTAI, Miklos; Hungarian government official and politician; b. 19 May 1914, Rákosliget; s. of Dezsö Ajtai and Margit Gere; m. Magda Jóboru 1968; one s. one d.; ed. Budapest Univ. of Sciences. Chemist, Chinoin factory; in resistance movement during Second World War; entered State service 1945, successively Chief Departmental Leader, Ministry of Welfare, Section Head, Ministry of Industry, First Deputy Minister of Light Industry; Deputy Pres., State Planning Office 1956-61, Pres. 1961-67; Deputy Prime Minister 1967-74; mem. Central Cttee. Hungarian Socialist Workers' Party 1961-; alt. mem. Political Cttee. of Hungarian Socialist Workers' Party 1962-70; Pres. State Office of Tech. Devt. 1971-78; Pres. Fed. of Tech. and Scientific Socs. 1974-; Vice-Pres. for the State Prize and Kossuth Prize Cttee. 1974-; Red Banner Order of Merit. *Address:* 1372 Kossuth Lajos tér 6-8, Budapest, Hungary.

AKAMA, Yoshihiro; Japanese banker; b. 2 Dec. 1916, Tokyo; s. of Nobuyoshi and Midori (Nannichi) Akama; m. Hiroko Nitta 1945; one s. three d.; ed. Tokyo Univ. Man. Dir. Mitsubishi Trust & Banking Corpn. 1965-69, Senior Man. Dir. 1969-70, Deputy Pres. 1970-71, Pres. 1971-78, Chair. 1978-. *Leisure interests:* Igo, fishing. *Address:* Mitsubishi Trust & Banking Corporation, 4-5, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100 (Office); 4-15-22 Komagome Toshimaku, Tokyo, Japan (Home). *Telephone:* 03-917-5755.

AKASHI, Toshio; Japanese banker; b. 24 Aug. 1915, Fukuoka Prefecture; m.; two s. one d.; ed. Tokyo Univ.; joined Sanwa Bank 1942, Chief Sec. 1958, Gen. Man. of Shimbashi Branch 1960, of Tokyo Govt. and Municipal Business Dept. 1962, of Tokyo Business Promotion Dept. 1963, of Fukuoka Branch 1964, of Personnel Dept. 1966, Dir. 1967, Man. Dir. 1968, Senior Man. Dir. 1972, Deputy Pres. 1973, Pres. Sanwa Bank April 1976-. *Leisure interests:* reading, golf. *Address:* 5-12-30 Okamoto, Higashinada-ku, Kobe, Hyogo 658, Japan. *Telephone:* (078) 411-7911.

AKATANI, Genichi; Japanese United Nations official; b. 29 Sept. 1917, Taipei; ed. Univ. of Oxford and Sophia Univ., Tokyo; joined Japanese Foreign Service 1945; Second Sec., Paris 1954, First Sec. 1955; Head, East-West Trade Div., Econ. Affairs Bureau, Ministry of Foreign Affairs 1958; Counsellor, Washington, D.C. 1961-66; Counsellor, Public Information Bureau, Ministry of Foreign Affairs 1966-72; Amb. at Large, Ministry of Foreign Affairs 1972; Asst. Sec.-Gen. for Public Information, UN 1972-77, Under Sec.-Gen. Jan. 1978-; del. to several sessions of UN Gen. Ass. *Address:* United Nations Secretariat, First Avenue, New York, N.Y. 10017, U.S.A.

AKE, Siméon; Ivory Coast lawyer and diplomatist; b. 4 Jan. 1932; ed. Univs. of Dakar and Grenoble. Chef de Cabinet to Minister of Public Service, Ivory Coast 1959-61; First Counsellor, Ivory Coast Mission to UN 1961-63; Dir. of Protocol, Ministry of Foreign Affairs 1963-64; Amb. to U.K., Sweden, Denmark and Norway 1964-66; Perm. Rep. of Ivory Coast to UN 1966-77; Minister of Foreign Affairs July 1977-; Officer of Nat. Order of Republic of Ivory Coast. *Address:* Ministry of Foreign Affairs, Abidjan, Ivory Coast.

ÅKERMAN, Johan, M.B.A.; Swedish business executive; b. 19 Sept. 1925, Lund; s. of Prof. Gustaf Åkerman and Anna-Lisa Ekelund; m. Gunilla Bergenstråhle 1953 (divorced 1975); one s. two d.; ed. Stockholm Univ. and Univ. of Calif. With Stockholms Enskilda Bank, Stockholm 1947, World Bank (IBRD), Washington 1953, Electro-Invest 1955; Joined the Grängesberg Co. (now Gränges A.B.) 1960, Pres. 1971-77. *Leisure interests:* skiing, skating, sailing, golf. *Address:* c/o Gränges AB, Fack, 103 26 Stockholm 16, Sweden.

AKHMADULINA, Bella Akhatovna; Soviet poet; b. 10 April 1937, Moscow; d. of Ahat and Nadya (née Lazareva) Akhmadulin; m. 1st Yevgeniy Yevtushenko (*q.v.*) 1960; m. 2nd Yuriy Nagibin; m. 3rd Boris Messerer 1974; ed. Gorky Inst. of Literature. Hon. mem. American Acad. of Arts and Letters 1977. *Poems include:*

The String 1962, The Rain 1963, My Ancestry 1964, Summer Leaves 1968, The Lessons of Music 1969, Fever and Other New Poems (trans. into English) 1970, Tenerezza 1971, The Rain 1974, Poems 1975, The Dreams about Georgia 1977, The Candle 1977, The Snowstorm 1978; translations from Georgian. *Address:* U.S.S.R. Union of Writers, Ulitsa Vorovskogo 20, Moscow G-69, U.S.S.R.

AKHUND, Iqbal Ahmad; Pakistani diplomatist; b. 1924, Hyderabad, Sind; s. of Abdullah Shaffimohammed and Maryam Shaikh; m. Yolanda née Gombert 1956; three s. one d.; ed. Bombay Univ. Served in diplomatic missions in Canada, Spain, Netherlands, Saudi Arabia, Malaysia and the Perm. Mission to the UN in New York 1949-56; Private Sec. to the Foreign Minister 1956-58; Dir. Foreign Office 1964-66, Dir.-Gen. 1966-68; Amb. to the U.A.R. 1968-71; Amb. to Yugoslavia 1971-72; Perm. Rep. to the UN 1972-78; Vice-Pres. UN Econ. and Social Council 1974, Pres. 1975; Chair. Ad Hoc Cttee. on Sanctions against Rhodesia 1976; Pres. UN Security Council 1976; Chair. "Group of 77" 1976-77; Vice-Pres. Cttee. of the Whole 1978; mem. Inter-Gov. group of Experts on Devt. and Disarmament; mem. Int. Cttee. of Inst. on Man and Science; now Amb. to France. *Leisure interests:* reading, music, golf, photography. *Address:* Embassy of Pakistan, 18 rue Lord Byron, 75008 Paris, France. *Telephone:* 225-23-32.

AKILANDAM, Perungalur Vaithialingam (pseudonym Akilon); Indian Tamil writer; b. 27 June 1922, Perungalur; s. of M. Vaithialingam and V. Amirdhammal; ed. Maharaja's Coll., Pudukkottai. Writer 1940-; in Indian Post & Telegraph Dept. 1945-58; freelance writer 1958-; Sec. Tamil Writers' Assn., Tiruchy 1953-57; Sec.-Gen. Fed. of All-India Tamil Writers 1962-; Dir. Tamil Writers' Co-op. Soc. 1963-; mem. Tamil Advisory Bd., Sahitya Akademi 1964-; Producer, Spoken Word in Tamil, All-India Radio, Madras 1965-; Pres. Tamil Writers' Assn. 1967; Kalai Majai Prize for Penn 1946, Tamil Akademi Award for Nenjin Alaigai 1953, Sahitya Akademi Award for Vengaiyin Maindan 1963, Tamilnadu Govt. Award for Kayalvizhi 1968, for Erimalai 1973. *Publications include:* novels: Penn 1946, Snehithi 1950, Nenjin Alaigai 1953, Pavai Vilakku 1958, Vengaiyin Maindan 1961, Ponmalar 1964, Kayalvizhi 1964, Chittirap Paavai 1967; short stories: Sakthival 1947, Nilavinilay 1950, Vazhi Pirandhadu 1952, Sahodarar Andro? 1963, Nellore Arisi 1967, Erimalai 1971. *Leisure interests:* reading and short travels. *Address:* 171 Lloyds Road, Madras 14, India. *Telephone:* 81968.

AKINS, James E.; American diplomatist; b. 15 Oct. 1926, Akron, Ohio; s. of Bernice Bixler and Quay Akins; m. Marjorie Abbott 1954; one s. one d.; ed. Akron Univ. U.S. Navy 1945-46; undertook relief work with non-profit org. 1948-50; taught in Lebanon 1951-52; asst. editor with research org. 1953-54; entered Foreign Service 1954; held numerous diplomatic posts in Paris 1954-55, Strasbourg 1955-56, Damascus 1956-57, Kuwait 1958-60, Baghdad 1961-64; with Secr., Wash., D.C. 1965-67, Dir. Fuels and Energy Office 1968-72; Amb. to Saudi Arabia 1973-75. *Publications:* numerous articles on oil and energy policy and the Middle East. *Leisure interests:* opera, archaeology. *Address:* 2904 Garfield Terrace, Washington, D.C. 20008, U.S.A. *Telephone:* 202-234-9119 (Office); 202-234-9152 (Home).

AKO, Ernest, C.V., D.S.O.; Ghanaian police official. Joined Ghana Police Force 1941, Insp. 1954, Asst. Commr. 1967, Commr. 1973, Insp.-Gen. 1974-; Commr. for Internal Affairs, Nat. Redemption Council 1974-77; mem. Supreme Mil. Council Oct. 1975-. *Address:* c/o Police Headquarters, Accra, Ghana.

AKSYONOV, Vasiliy Pavlovich; Soviet writer; b. 20 Aug. 1932, Kazan; s. of Pavel V. Aksyonov and Yevgeniya Ginzburg; m. Kira L. Mendeleva 1957; one s.; ed. Leningrad Medical Inst. Physician 1956-60; professional writer 1960-; mem. Union of Soviet Writers; mem. Editorial Board Yunost (magazine). *Publications:* novels: Colleagues 1960, Starry Ticket 1961, 1970, Oranges from Morocco 1963, Time, My Friend, Time 1964, The Empty Barrels 1968, Love of Electricity 1971, My Granpa is a Monument 1972, The Box Inside Which Something Knocks (children's book) 1976; collected stories: Catapult 1964, Half-Way to the Moon 1966, Wish You Were Here 1969; screenplay for films: Colleague, My Young Friend, When They Raise the Bridges, Travelling 1967, The Murmar House 1972; play: On Sale 1965; travel: An Unusual Journey 1963, Twenty-Four Hours Non-Stop 1976. *Leisure interests:* music, travelling, running. *Address:* Krasnoyarmeyskaya st. 21 apt. 20, 125319 Moscow, U.S.S.R. *Telephone:* 151-8615.

AKUFFO, Lieut.-Gen. Fred W. K.; Ghanaian army officer; b. 21 March 1937, Akropong-Akwapim, E. Region; ed. Presbyterian Secondary School, Krobo-Odumasi, and Royal Mil. Acad., Sandhurst, U.K.; civil service 1955-57; army service 1957-; commissioned 1960; served UN Peace-Keeping Force, Congo (now Zaire); later attended Parachute Course, Abingdon, U.K.; Commdr. Ghana Parachute Bn. 1966; Staff Coll., Camberley, U.K. 1967; then Commdr. Airborne Training School and 6th Inf. Bn.; Nat. Defence Coll., India 1973; Commdr. Border Guards 1974; Army Commdr. 1975-76; mem. Supreme Mil. Council Oct. 1975; Chief of Defence Staff 1976-78; Head of State and Chair. Supreme Military Council 1978-79; Commr. for Defence 1978-79; Companion Order of the Volta (Ghana) 1978, Officer Order of Star of Ghana 1978. *[Died 26 June 1979.]*

AKUFO-ADDO, Edward, M.O.V., M.A.; Ghanaian lawyer; b. 1906; ed. Presbyterian Church Seminary, Akropong, Achimota School, St. Peter's Coll., Oxford, and Middle Temple, London. Member Legis. Council, Ghana 1949-50; mem. Coussey Constitutional Comm., Ghana 1949; Judge of Ghana Supreme Court 1962-64; Chair. Political Cttee. of Nat. Liberation Council 1966; Chair. Bd. of Dirs. Ghana Commercial Bank 1966; Chair. Constitutional Comm., Ghana 1966; Chief Justice of Ghana 1966-70; Chair. Gen. Legal Council, Ghana 1966-70; Pres. of Ghana Sept. 1970-Jan. 1972 (deposed by mil. coup); Chair. Council of Univ. of Ghana 1966; mem. London Inst. of World Affairs; Hon. Fellow, St. Peter's Coll., Oxford. *Address:* Yeboaa Buw, 46/5 Nima Road, Ringway Central, Accra, Ghana (Home). *Telephone:* 63534.

AKURGAL, Ekrem, PH.D.; Turkish archaeologist; b. 30 March 1911, Istanbul; ed. Germany. Lecturer, Univ. of Ankara 1941-49, Prof. of Archaeology 1949-; has conducted excavations at Smyrna, Sinope, Phokaia, Daskyleion, Pitane and Erythrai 1953-, at Izmir 1967-; Visiting Prof., Princeton Univ. 1961-62; mem. Turkish Historical Soc. (Sec.-Gen. 1951-61), Turkish High Comm. for Ancient Monuments; mem. Austrian and German Archaeol. Insts., British, Austrian and Swedish Acads.; Hon. mem. Soc. for Promotion of Hellenic Studies, London, American Inst. of Archaeology; Dr. h.c. (Bordeaux) 1961. *Publications:* Griechische Reliefs aus Lykien 1942, Remarques stylistiques sur les reliefs de Malatya 1946, Späthethitische Bildkunst 1949, Phrygische Kunst 1955, Die Kunst Anatoliens von Homer bis Alexander 1961, Die Kunst der Hethiter 1961, Orient und Okzident 1966, Treasures of Turkey (with Mango and Ettinghausen) 1966, Urartäische und Altiranische Kunstzentren 1968, Ancient Civilizations and Ruins of Turkey (3rd edn.) 1973. *Address:* University of Ankara, Dil ve Tarih-Cografya Fakültesi, Ankara (Office); Vali Dr. Reşit cad. 90/5 çankaya, Ankara, Turkey (Home).

AKWAA', Brig. Mohamed Ali al-; Yemeni army officer; b. 1933, Sana'a; m.; five c.; ed. secondary school, Mil. Coll., Sana'a. Participated in the movts. against last three Imams of Yemen, Free Yemenis Revolution 1948, attempted coup 1955, Revolution of 26 Sept. 1962; leading figure in movement which ousted Pres. al-Sallal 1967; has held several posts in mil. and civil service including Asst. Mil. Commdr. Taiz District, Head Criminal Investigation Dept., Head Nat. Security (Intelligence) Dept.; Chief of Staff, Army Operations, Head S. Yemen Relief Office attached to Presidency; Minister of the Interior 1973-74. *Address:* Bir Al-Azab, Sana'a, Yemen Arab Republic.

AKWEI, Richard Maximilian; Ghanaian diplomatist; b. 27 Nov. 1923, Accra; s. of Richard Mabuo Akwei and Martha Akwei; m. Josephine Akosua Afram 1956; two s. one d.; ed. Achimota Coll., Accra, London Univ. and Christ Church, Oxford. Administration Officer, Ghana Civil Service 1950-56; Ghana Diplomatic Service 1956-; attached to U.K. High Comm., Ottawa 1956-57; First Sec., Washington 1957-60; Dir. W. European and E. European Depts. Ministry of Foreign Affairs, Accra 1960-64; Amb. to Mexico 1964-65; Perm. Rep. to UN, Geneva, and Amb. to Switzerland 1965-67; Perm. Rep. to UN, New York 1967-72; Amb. to People's Repub. of China 1972-76; Senior Principal Sec. Ministry of Foreign Affairs 1976-78, Vice-Chair. Int. Civil Service Comm., UN 1978-. *Leisure interests:* tennis, music, photography, reading. *Address:* 240 East 27th Street, Apt. 9-H, New York, N.Y. 10016, U.S.A. *Telephone:* (212) 679-7556.

ALAIN, Marie-Claire; French organist; b. 10 Aug. 1926, Saint-Germain-en-Laye; d. of Albert and Madeleine (Alberty) Alain; m. Jacques Gommier 1950; one s. one d.; ed. Institut Notre Dame, Sainte-Germain-en-Laye, Conservatoire National Supérieur de Musique, Paris. Organ teacher, Conservatoire de Musique de Rueil-Malmaison; Lecturer, Summer Acad. for organists, Haarlem, Netherlands 1956-; numerous concerts throughout world 1955-; lecturer at numerous univs. throughout world; expert on organology to Minister of Culture; Hon. D.Hum.Litt. (Colorado State Univ.); Hon. D.Mus. (Southern Methodist Univ., Dallas); numerous prizes for recordings and performances including Buxtehudepreis (Lübeck, Fed. Repub. of Germany); Chevalier, Légion d'honneur. *Recordings:* over 150 records, including complete organ works of J.

S. Bach, complete organ works of Buxtehude, 16 concertos of Handel, Haydn (concertos), Vivaldi (concertos), C. P. E. Bach (concertos). *Address:* 37 Chemin de la Butte, 78620 L'Etang-la-Ville, France. *Telephone:* 958-56-74.

ALAMUDDIN, Najib Salim, B.A.; Lebanese airline executive; b. 9 March 1909, Baakline; s. of Wadad and Salim Alamuddin; m. Dr. Ida Kunzler Alamuddin 1940; two s. one d.; ed. American Univ. of Beirut and Coll. of South West, Exeter, England. Teacher of Engineering and Mathematics, American Univ. of Beirut 1930-33; Insp. of Mathematics, Education Dept., Govt. of Trans-Jordan 1933-36; Insp.-Gen. of Customs, Trade and Industry, Trans-Jordan 1939-40; Chief Sec. Govt. of Trans-Jordan 1940-42; founded Near East Resources Co. 1942; Gen. Man. Middle East Airlines 1952-56, Chair. and Pres. 1956-77, Hon. Chair. 1977-; Minister of Tourism and Information 1965, of Public Works and Transport 1966, 1973; mem. Exec. Cttee. of Int. Air Transport Assen.; Hon. mem. Bd. of Trustees, American Univ. of Beirut; Dir. Inst. du Transport Aérien, and several Lebanese cos.; Hon. C.B.E. and several foreign decorations. *Leisure interest:* farming. *Address:* c/o Middle East Airlines Airliban, MEA Buildings, Airport Boulevard, P.O. Box 206, Beirut, Lebanon.

ALARCÓN DE QUESADA, Ricardo; Cuban diplomatist; b. 21 May 1937; ed. Univ. de Habana. Head of Student Section, Provincial Office of 26 July Revolutionary Movement 1957-59; Pres. Univ. Students' Fed., Sec. Union of Young Communists; Dir. for Regional Policies (Latin America), Ministry of Foreign Affairs 1962-66; mem. Governing Council of Inst. for Int. Politics, Ministry of Foreign Affairs; Perm. Rep. of Cuba to the UN 1966-78; Pres. UNDP 1976-77. *Address:* c/o Ministry of Foreign Affairs, Havana, Cuba.

ALBAN-HANSEN, Erik; Danish civil servant; b. 29 July 1920, Copenhagen; s. of Ejler Vilhelm Hansen and Vilhelmine Hansen (née Lorentzen); m. Vibeke Poulson 1943; one s. two d.; ed. Univ. of Copenhagen. Principal, Prices and Monopoly Control 1943; Principal, Dept. of Customs and Excise 1944-47, Head of Section 1947-62, Asst. Sec. 1962-65, Deputy Sec. 1965-73; Fed. of Danish Industries 1946-59; Dir.-Gen. of Financial Insts. and Fiscal Matters, Comm. of European Communities 1973-77. *Leisure interest:* music. *Address:* Ildkulevej 27, Yderby Lyng, 4583 Sjaell, Odde, Denmark. *Telephone:* 0342-62-26.

ALBEE, Edward Franklin; American playwright; b. 12 March 1928; ed. Lawrenceville and Choate Schools, Washington, and Columbia Univ. Has written a number of plays, including: The Death of Bessie Smith, The American Dream, The Sand Box 1961, Zoo Story 1961, Who's Afraid of Virginia Woolf 1962, stage adaptation of The Ballad of the Sad Café (Carson McCullers) 1963, Tiny Alice 1964, Malcolm (from novel by James Purdy) 1966, A Delicate Balance (Pulitzer Prize 1967) 1966, Everything in the Garden (after a play by Giles Cooper) 1967, All Over 1971, Seascape (Pulitzer Prize 1975) 1975, Listening 1975, The Lady from Dubuque 1977; two one-act plays: Box, Quotations from Chairman Mao Tse-tung 1968, Counting the Ways 1976. *Address:* 226 Lafayette Street, New York, N.Y. 10012, U.S.A.

ALBERT, Calvin; American sculptor; b. 19 Nov. 1918, Grand Rapids, Mich.; s. of Philip and Ethel Albert; m. Martha Neff 1941; one d.; ed. Inst. of Design, Chicago, Art Inst. of Chicago and Archipenko School of Sculpture. Teacher, New York Univ. 1949-52, Brooklyn Coll. 1947-49, Inst. of Design 1942-46; Prof. of Art, Pratt Inst. 1949-, Head of Graduate Sculpture Program 1965-; 22 one-man exhbns. including Landmark, Stable and Borgenicht Galleries, New York, Palace of Legion of Honor, San Francisco, Art. Inst. of Chicago; other exhbns. in the U.S. and Galleria George Lester, Rome; sculpture and drawings in collections of Whitney Museum, Metropolitan Museum, Jewish Museum, Art Inst. of Chicago, Detroit Inst. of Arts, Univ. of Nebraska, Chrysler Museum of Art and William Rockhill Nelson Gallery of Art; Fulbright Advanced Research Grant to Italy 1961; Tiffany Grants 1963, 1965; Guggenheim Fellowship 1966; Nat. Inst. of Arts and Letters Award 1975. *Publication:* Figure Drawing Comes to Life (with Dorothy Seckler). *Leisure interest:* boating. *Address:* 325 West 16th Street, New York, N.Y. 10011, U.S.A.

ALBERT, Carl Bert, B.C.L., LL.D.; American lawyer and politician; b. 10 May 1908; s. of Ernest H. Albert and Leona Scott; m. Mary Harmon 1942; one s. one d.; ed. Univ. of Oklahoma and Oxford Univ. Admitted to Oklahoma Bar 1936; Legal Clerk, Federal Housing Admin. 1935-37; practised law, Oklahoma City 1937; attorney and accountant Sayre Oil Co. 1937-38; law practice, Mattoon, Ill. 1938-39; legal dept., Ohio Oil Co. 1939-40; served army 1941-46; practised law, McAlester, Oklahoma 1946-47; mem. House of Reps. 1947-79, Democratic Whip 1955; Majority Leader 1962-71; Speaker of House of Reps. 1971-76; Bronze Star. *Address:* 827 E Osage, McAlester, Okla. 74501, U.S.A.

ALBERTY, Robert Arnold, PH.D.; American professor of chemistry; b. 21 June 1921, Winfield Kan.; s. of Luman H. and Mattie Arnold Alberty; m. Lillian Jane Wind 1944; one s. two d.; ed. Lincoln High School, Lincoln, Neb., Univ. of Nebraska and Univ. of Wisconsin. Instructor, Chemistry Dept., Univ. of Wisconsin 1947-48, Asst. Prof. 1948-50, Assoc. Prof. 1950-56, Prof. 1956-57, Assoc. Dean of Letters and Science 1962-63, Dean of Graduate School 1963-67; Prof. of Chemistry and Dean, School of Science, Mass. Inst. of Technology 1967-; mem. N.A.S. 1965-, American Acad. of Arts and Sciences 1968-, Inst. of Medicine 1973-; Chair. Comm. on Human Resources, Nat. Research Council 1971-77; Fellow, AAAS 1976-; Chair. Cttee. on Chemistry and Public Affairs, American Chemical Soc. 1978; Eli Lilly Award for research in enzyme kinetics 1956; Hon. Dr. (Nebraska) 1967, (Lawrence) 1967. *Publications:* Physical Chemistry (co-author) 5th edn. 1979, Experimental Physical Chemistry (with others) 1962. *Leisure interest:* designing and building a summer cabin. *Address:* School of Science, Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); 7 Old Dee Road, Cambridge, Mass. 02138, U.S.A. (Home).

ALBERTZ, Heinrich; German politician and ecclesiastic; b. 22 Jan. 1915; ed. theological studies in Berlin, Halle and Breslau. Curate in Berlin 1937, arrested during Second World War as active member of Protestant Church; Head of Refugee Office, City of Celle 1946; mem. Social Democrat Party (SPD) 1946-; Rep. for Refugees, Lower Saxony Landtag 1947; mem. Refugee Council, Exec. Cttee. of SPD 1947; Dir. of Senate Cttee. for People's Welfare, West Berlin 1955-59; Head of Senate Chancellery, West Berlin 1961-63; Senator for Internal Affairs, West Berlin 1961-63; Deputy Mayor and Senator for Internal Affairs 1965-66; Mayor of West Berlin Dec. 1966-67; Protestant Priest in West Berlin 1968-; Niedersächsische Landesmedaille, Grosses Verdienstkreuz mit Stern und Schulterband. *Address:* 1 Berlin 38, Rolandstrasse 6b, Germany.

ALBRECHT, Ernst Carl Julius, DR.RER.POL.; German economist and politician; b. 29 June 1930, Heidelberg; s. of Carl Albrecht, M.D., and Dr. Adda Albrecht (née Berg); m. Dr. Heidi Adele Stromeyer 1953; five s. one d.; ed. Univs. of Tübingen, Cornell, Basle, Bonn. Attaché to Council of Ministers, ECSC 1954; Head of Common Market section of Brussels conf. for preparation of Treaties of Rome 1956; Chief Exec. Officer to EEC Commr. Hans von der Groeben 1958; Deputy Head of Comm. del. at negotiations with Denmark, Ireland, Norway and U.K. for accession to EEC 1961-63; Dir.-Gen. for Competition, EEC Comm. 1967-70; Financial Dir. Bahlsens Keksfabrik, biscuit mfrs. 1971-76; Minister-Pres. of Lower Saxony 1976-; Christlich-Demokratische Union (CDU). *Publication:* Der Staat—Idee und Wirklichkeit (The State—Ideal and Reality) 1976. *Address:* Am Brink 2B, 3167 Burgdorf OT Beinhorn, Federal Republic of Germany. *Telephone:* 0511/1906901.

ALBUQUERQUE, José Osório da Gama e Castro Saraiva de, LIC. EM DIR.; Portuguese judge; b. 3 Aug. 1910, Fornos de Algodres; s. of Conselheiro Luis Osório and Margarida de Albuquerque Osório; m. Zilia de Serpa Brandão 1934; six s. five d.; ed. Universidade de Coimbra. Asst. to Procurator of Repub. 1934-42; Judge 1942-57; Procurator, Appeal Court, Oporto district 1942-44; Deputy Procurator-Gen. of Repub. 1946-54; Procurator-Gen. of the Repub. 1954-57; Appeal Court Judge 1957-61; Supreme Court Judge 1961-; Pres. of the Supreme Court of Justice 1966; Gran Cruz de Ordem de Cristo. *Leisure interest:* gardening. *Address:* Rua do Francisco de Almeida 63, Lisbon 3, Portugal. *Telephone:* 61 07 74.

ALCORN, (Hugh) Meade, Jr., LL.B.; American politician; b. 20 Oct. 1907, Suffield, Conn.; s. of late Hugh M. and Cora W. Alcorn; m. 1st Janet Hoffer 1933 (deceased), one s. (deceased) one d.; m. 2nd Marcia Powell 1955; ed. Dartmouth Coll. and Yale Univ. Admitted to Connecticut Bar 1933; Partner Alcom, Bakewell and Smith, Hartford 1933-; Asst. State's Attorney, Hartford County, 1935-42, State's Attorney 1942-48; mem. Connecticut House of Reps. 1937, 1939 and 1941, Majority Leader 1939, Speaker 1941; Republican Chair. Suffield, Conn. 1938-53; del. Republican Nat. Convention 1940, 1948, 1952, 1956 (Chair.), alt. del. 1944; Seventh District Committeeman; Nat. Committeeman from Conn. 1953-61; Vice-Chair. Cttee. on Arrangements for 1956 Republican Nat. Convention 1956; Chair. Republican Nat. Cttee. 1957-59; mem. Hartford County, Conn. State (Pres. 1950-51) and American Bar Asscns., American Judicature Soc.; Fellow, American Coll. of Trial Lawyers; Dir. United Bank & Trust Co., Hartford, Conn.; Hon. LL.D. (Hartford) 1974. *Leisure interests:* fishing, hunting. *Address:* 49 Russell Avenue, Suffield, Conn., U.S.A. *Telephone:* 668-7306.

ALDER, Berni Julian, PH.D.; American theoretical physicist; b. 9 Sept. 1925, Duisburg, Germany; s. of Ludwig Alder and Ottilie Gottschalk; m. Esther Romella Berger 1956; two s. one d.; ed. Univ.

of California (Berkeley), and California Inst. of Technology. Instructor, Univ. of Calif. (Berkeley) 1951-54; Theoretical Physicist, Univ. of Calif. Lawrence Radiation Lab. 1955-; Nat. Science Foundation Senior Post Doctoral Fellow, Weizman Inst. (Israel) and Univ. of Rome 1963-64; Van der Waals Prof., Univ. of Amsterdam 1971; Guggenheim Fellow, Cambridge (U.K.) and Leiden (Netherlands) 1954-55; Assoc. Prof., Univ. of Paris 1976-; mem. N.A.S. *Publications:* many chapters in books and articles in journals. *Leisure interests:* hiking, skiing. *Address:* Lawrence Radiation Laboratory, P.O. Box 808, Livermore, Calif. 94550, U.S.A.

ALDEWERELD, Siem; Netherlands banker; b. 1909, Amsterdam; s. of Gerrit Aldewereld and Marianna Stodel; m. Kitty M. Erwteman 1939; no c.; ed. Amsterdam Univ.; entered service of Rotterdam Bank, Amsterdam 1930; Govt. Dir. of Foreign Exchange Control, Curaçao 1940; during the war, Supervisor of Netherlands East Indies assets in Western Hemisphere, New York 1942; Financial Adviser for Netherlands Indies affairs, Netherlands Embassy, Washington; Asst. to Treas. Int. Bank for Reconstruction and Devt. 1946-52, Asst. Dir. 1952-55, Dir. Dept. of Tech. Operations 1955-65, Vice-Pres. for Finance, Int. Bank for Reconstruction and Devt. 1956-74; Partner Lazard Frères & Co., N.Y. 1974-. *Address:* 2801 New Mexico Avenue, N.W., Apartment 1407, Washington, D.C. 20007, U.S.A.

ALDINGTON, 1st Baron (cr. 1962); **Toby (Austin Richard William) Low,** P.C., K.C.M.G., C.B.E., D.S.O., T.D.; British banker and industrialist; b. 25 May 1914, London; s. of Col. Stuart Low, D.S.O. and Hon. Lucy Gwen, d. of Lord Atkin; m. Araminta, d. of Sir Harold MacMichael, G.C.M.G., D.S.O., 1947; one s. two d.; called to Bar 1939; Army Service 1939-45; Conservative M.P. 1945-62; Parl. Sec. to Ministry of Supply 1951-54; Minister of State, Board of Trade 1954-57; Deputy Chair. Conservative Party Org. 1959-63; Chair. Grindlays Bank Ltd. (fmrly. Nat. and Grindlays) 1963-76, Port of London Authority 1971-77, Gen. Advisory Council of BBC 1971-77; Chair. Sun Alliance and London Insurance Group, Nat. Nuclear Corpn. Ltd., Westland Aircraft Ltd., Man. Cttee. Inst. of Neurology; Deputy Chair. Gen. Electric Co. Ltd.; Dir. Lloyds Bank Ltd., Citicorp N.A. (U.S.A.); Fellow, Royal Soc. of Arts 1970; Hon. Fellow New Coll., Oxford. *Leisure interests:* golf, gardening, stalking. *Address:* Knoll Farm, Aldington, nr. Ashford, Kent; and Flat R, 45 Eaton Square, London, SW1W 9BD, England. *Telephone:* 01-235 3425.

ALDISS, Brian Wilson; British writer; b. 18 Aug. 1925, Norfolk; m. 2nd Margaret Manson 1965; two s. two d.; ed. Framlingham Coll. and West Buckland School; formerly soldier, draughtsman, bookseller and film critic: Literary Editor Oxford Mail 1957-69; Pres. British Science Fiction Assen. 1960-65; Joint-Pres. European Science Fiction Cttees. 1976-77; Chair. John W. Campbell Memorial Award 1976-77; Chair. Cttee. of Management Soc. of Authors 1977-78; mem. Literature Advisory Panel, Arts Council 1978; Hugo Award for Hothouse 1962, Nebula Award for The Saliva Tree 1965, Ditmar Award for World's Best Contemporary Science Fiction Writer 1969, British Science Fiction Assen. Award for The Moment of Eclipse 1972, Eurocon III Merit Award for Billion Year Spree 1976, Jules Verne Award for Non-Stop 1977, 1st James Blish Award for Excellence in Criticism 1977, Pilgrim Award 1978. *Publications:* The Brightfount Diaries 1955, Space, Time & Nathaniel 1957, Non-Stop 1958, The Male Response 1959, Hothouse 1962, The Airs of Earth 1963, The Dark Light Years 1964, Greybeard 1964, Earthworks 1965, Best Science Fiction Stories of Brian W. Aldiss 1965, Cities and Stones: A Traveller's Jugoslavia 1966, Report on Probability A 1968, Barefoot in the Head 1969, Intangibles Inc., 1969, A Brian Aldiss Omnibus 1969, The Hand-Reared Boy 1970, The Shape of Further Things 1970, A Soldier Erect 1971, The Moment of Eclipse 1971, Brian Aldiss Omnibus 2 1971, Penguin Science Fiction Omnibus (editor) 1973, Comic Inferno 1973, Billion Year Spree 1973, Frankenstein Unbound 1973, The Eighty-Minute Hour 1974, Hell's Cartographers (editor) 1975, Space Odysseys, Evil Earths, Science Fiction Art 1975, The Malacia Tapestry, Galactic Empires (2 vols.) 1976, Last Orders, Brothers of the Head 1977, Perilous Planets, A Rude Awakening 1978, Enemies of the System 1978, This World and Nearer Ones 1979. *Leisure interests:* the past, the future. *Address:* 11 Charlbury Road, Oxford, England.

ALDRICH, Hulbert Stratton, PH.B.; American banker; b. 3 April 1907, Fall River, Mass.; s. of Stanley Alden Aldrich and Jane Stratton (Pratt) Aldrich; m. Amy Durfee 1934; two d.; ed. Phillips Acad. and Yale Univ.; joined New York Trust Co. 1930. Asst. Treas. 1939-43, Vice-Pres. 1943-52, Pres. 1952-59 (co. merged with Chemical Corn Exchange Bank to form Chemical Bank New York Trust Co.); Vice-Chair. Chemical Bank 1959-72; Chair. Hill Samuel Inc. 1972-77; Dir. numerous other companies. *Leisure interest:* tennis. *Address:* 940 Park Avenue, New York, N.Y. 10022, U.S.A.

ALDRICH, Robert; American film director and producer; b. 1918, Cranston, R.I.; m.; one s. three d.; ed. Univ. of Virginia. *Films include:* Big Leaguer, World for Ransom, Apache 1954, The Big Knife 1955, Attack 1957, Whatever Happened to Baby Jane 1962, Hush, Hush, Sweet Charlotte 1964, Flight of the Phoenix 1965, The Dirty Dozen 1966, The Killing of Sister George 1968, The Grissom Gang 1971, Ulzana's Raid 1972, Emperor of the North 1972, The Longest Yard 1974, The Mean Machine 1975, Hustle 1976, The Choirboys 1978. *Address:* Aldrich Studios, 201 N Occidental Boulevard, Los Angeles, California 90026, U.S.A.

ALDRIN, Edwin Eugene, (Buzz) Jr., D.Sc.; American astronaut; b. 20 Jan. 1930, Montclair, N.J.; s. of late Col. Edwin E. Aldrin and late Marion M. Aldrin; divorced 1978; two s. one d.; ed. U.S. Military Acad. and Massachusetts Inst. of Technology.; fmr. mem. U.S. Air Force; completed pilot training 1952; flew combat missions during Korean War; later became aerial gunnery instructor, Nellis Air Force Base, Nev.; attended Squadron Officers' School at Air Univ., Maxwell Air Force Base, Ala.; later Flight Commdr. 36th Tactical Fighter Wing, Bitburg, Germany; completed astronautics studies at Mass. Inst. of Technology 1963; selected by NASA as astronaut 1963; Gemini Target Office, Air Force Space Systems Div., Los Angeles, Calif. 1963; later assigned to Manned Spacecraft Center, Houston, Tex.; pilot of backup crew for Gemini IX mission 1966; pilot for Gemini XII 1966; backup command module pilot for Apollo VIII; lunar module pilot for Apollo XI, landed on the moon 20 July 1969; Commdt. Aerospace Research Pilot School 1971-72; Fellow, American Inst. of Aeronautics and Astronautics; Hon. mem. Royal Aeronautical Soc.; several honorary degrees and numerous decorations and awards; retd. from U.S.A.F. 1972; Pres. Research & Eng. Consultants Inc. 1972-; consultant to JRW, Jet Propulsion Lab. *Publications:* First on the Moon: A Voyage with Neil Armstrong (with Michael Collins) 1970, Return to Earth 1973. *Leisure interest:* scuba diving. *Address:* 11652 Chenault Street, 10 Los Angeles, Calif. 90049, U.S.A. *Telephone:* 213-476-4712.

ALEIXANDRE, Vicente; Spanish writer; b. 1898, Seville; s. of Cirilo and Elvira Aleixandre; ed. Univ. of Madrid. Mem. Spanish Acad., Hispanic Soc. of America, Monde Latin Paris Acad.; Hon. Fellow, Profs. of Spanish, U.S.A. Assen.; Corresp. mem. Sciences and Arts, Puerto Rico Acad. Arts, Malaga Acad., Hispano-american Bogotá Acad.; Nat. Prize of Literature, Nobel Prize for Literature 1977; Great Cross of Carlos III, Hijo Predilecto e Illustre de Sevilla. *Publications:* Ambito 1928, Espadas como Labios 1932, Pasión de la Tierra 1935, La Destrucción o el Amor 1935, Sombra del Paraíso 1944, Mundo ■ Solas 1950, Vida del Poeta: El amor y la poesía 1950, Poemas Paradisíacos 1952, Nacimiento Ultimo 1953, Historia del Corazón 1954, Algunos Carácteres de la Nueva Poesía Española 1955, Ocho Poemas de Aleixandre 1955, Mis Poemas Mejores 1957, Los Encuentros 1958, Poemas Amorosos 1960, Poesías Completas 1960, Picasso 1961, Antigua Casa Madrielña 1961, En Un Vasto Dominio 1962, María la Gorda 1963, Retratos con Nombre 1965, Presencias 1965, Dos Vidas 1967, Obras Completas 1968, Poemas de la Consumación 1968, Antología del Mar y la Noche 1971, Poesia Superrealista 1971, Sonido de la Guerra 1971, Diálogos del Conocimiento 1974, Antologia Total 1976, Antologica Poética 1978. *Address:* Velintonia 3, Parque Metropolitano, Madrid 3, Spain. *Telephone:* 233-47-94.

ALEKPEROV, Aziz Aga-Aga-baba; Soviet foreign trade official; b. 1 Jan. 1916; ed. Inst. of Foreign Trade, Moscow. Has worked in foreign trade 1938-; various posts in All Union Vostokintorg (Eastern Foreign Trade) Assen., Chair. 1965-. *Address:* All Union Vostokintorg Association, 32-34 Smolenskaya-Sennaya Ploshchad, Moscow, U.S.S.R.

ALEKSANDROV, Aleksandr Danilovich; Soviet mathematician; b. 4 Aug. 1912, Volyn, Ryazan Region; ed. Leningrad Univ. Lecturer Leningrad Univ. 1952, Rector 1952-64; mem. CPSU 1951–; specialized in subject of convex bodies and general surfaces in geometry; corresp. mem. Acad. of Sciences of U.S.S.R. 1946-64, mem. 1964-; Head of Dept., Inst. of Mathematics, Siberian Br. U.S.S.R. Acad. of Sciences 1964-; U.S.S.R. Master of Sport in Mountaineering 1949; Lobachevsky Int. Prize 1951, State prize-winner; Order of Lenin and other decorations. *Publications:* The Internal Geometry of Convex Surfaces 1948, Convex Polyhedrons 1950. *Address:* Akademgorodok, Institute of Mathematics, Novosibirsk, U.S.S.R.

ALEKSANDROV, Anatoliy Petrovich; Soviet physicist; b. 13 Feb. 1903, Tarashcha, Kiev Region, Ukraine; ed. Kiev Univ. Work devoted to physics of dielectrics, mechanical and electrical properties of high polymeric compounds; developed widely-used static theory of strength of solids; invented relaxation theory of elasticity in polymers, etc.; invented an anti-mine defence for ships during Second World War 1941-45; Corresp. mem. U.S.S.R. Acad. of

Sciences 1943-53, mem. 1953-; Dir. Inst. of Physical Problems, U.S.S.R. Acad. of Sciences 1946-55, Dir. Kurchatov Inst. of Atomic Energy 1960-, Pres. 1975-; mem. CPSU 1962-; Deputy to U.S.S.R. Supreme Soviet 1962-70; mem. Cen. Cttee. CPSU 1966-; Lenin Prize 1959, U.S.S.R. State Prize 1942, 1949, 1951, 1953; Order of Lenin (six times), Hero of Socialist Labour (twice), and other decorations. *Address:* I. V. Kurchatov Atomic Energy Institute, 46 Kurchatova, Moscow; U.S.S.R. Academy of Sciences, Leninsky Prospekt 14, Moscow, U.S.S.R.

ALEKSANDROV, Grigoriy Vasiliyevich; Soviet film director; b. (as G. V. Mormonenko) 23 Jan. 1903, Yekaterinburg (now Sverdlovsk). Began career as actor in the Central Workers' Studio of Proletkult 1921; began film work 1924; worked with S. Eisenstein as director of Strike, as actor and asst. in Battleship Potemkin 1925, and co-director of October 1927, Old and New 1928-29, Mexico 1931; worked in Paris 1929, Hollywood and Mexico 1929-30; mem. CPSU 1954-; People's Artist of the U.S.S.R.; mem. Lenin Int. Peace Prize Cttee.; State prizes 1941, 1950; Order of Lenin (twice), Order of Red Banner of Labour and other decorations. *Films:* Jolly Fellows 1934, Circus 1936, Volga-Volga 1938, Bright Path 1939, Spring 1947, Meeting on the Elbe 1949, Composer Glinka 1952, Man to Man 1958, Russian Souvenir 1960; produced Dear Liar (Kilthy) in Mossoviet Theatre. *Publication:* October. *Address:* Mosfilm Studio, Moscow, U.S.S.R.

ALEKSANDROV, Pavel Sergeyevich; Soviet mathematician; b. 7 May 1896, Noginsk, Moscow Region; ed. Moscow Univ. Prof. of Mathematics at Moscow Univ. 1929-; founded Soviet Topological Soc.; Pres. Moscow Math. School; Corresp. mem. U.S.S.R. Acad. of Sciences 1929-53, Academician 1953-; Pres. Moscow Math. Soc. 1932-64, Hon. Pres. 1964-; Foreign Assoc. U.S. N.A.S. 1947; mem. American Philos. Soc., Polish Acad. of Sciences; Corresp. mem. Acad. of Sciences, Berlin, Göttingen, Vienna, Halle; Hon. mem. Dutch Math. Soc.; U.S.S.R. State Prize 1943, Hero of Socialist Labour 1969, Order of Lenin (five times), and other decorations. *Publications:* Combinatorial Topology 1947, Untersuchungen über Gestalt und Lage abgeschlossener Mengen beliebiger Dimension (Annals of Mathematics, Princeton, N.Y., 1929, vol. 30), Topologische Dualitätssätze I, II 1959, 1962, Einführung in die Gruppentheorie von P.S. 1960, Nichtabgeschlossene Mengen 1962, Lectures on Analytical Geometry 1968. *Address:* Moscow State University, Leninskiye Gory, Moscow, U.S.S.R.

ALEKSEYEV, Aleksandr Ivanovich; Soviet diplomatist and journalist; b. 3 Aug. 1913, Moscow; ed. Moscow Univ. Diplomatic Service 1941-; First Sec. Buenos Aires 1954-58; Head of Dept. for Latin American Countries, State Cttee. of U.S.S.R. Council of Ministers for Cultural Relations with Foreign Countries 1959-60; Counsellor, Havana 1960-62, Amb. to Cuba 1962-67; at staff of Ministry of Foreign Affairs 1967-68; Vice-Chair. Board of Novosti Press Agency 1969-74; Amb. to Madagascar 1974-75; Order of Red Banner of Labour (three times), Badge of Honour. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

ALEKSEYEV, Mikhail Pavlovich; Soviet professor of literature; b. 5 June 1896, Kiev; s. of Pavel Petrovich Alekseyev and Antonina Vasiliyevna Alekseyeva; m. Nina Vladimirovna Alekseyeva; two d.; ed. Univ. of Kiev. Lecturer, Kiev Univ. 1919-20, Odessa Univ. 1921-27; Prof. Leningrad Univ. 1932-60, Head of Dept. of Philology 1945-47, 1950-53; Corresp. mem. U.S.S.R. Acad. of Sciences, 1946-58, mem. 1958-; mem. Inst. of Russian Literature of Acad. of Sciences, Leningrad; Head Sector of Inter-relations of Russian and foreign literatures; Chair. Pushkin Comm., U.S.S.R. Acad. of Sciences 1959-; mem. Serbian Acad. of Science and Art; Corresp. mem. British Acad., Royal Spanish Acad.; Hon. mem. Modern Languages Assn. of America; Hon. Ph.D. (Rostock); Hon. D.Litt. (Oxford); Hon. D. ès L. (Bordeaux and Paris); Hon. D.Phil. (Budapest and Poznań); Order of Lenin (twice), etc. *Publications:* Siberia in the References of European Travellers and Writers, 2 vols. 1932, 1936, History of English Literature 1943, 1960, The Russian Language in England 1944, The English Language in Russia 1946, Pushkin and the Science of his Time 1956, Humanism in Ancient Russian Literature 1958, Hogarth and his Analysis of Beauty 1958, Byron MSS. in the U.S.S.R. 1958, Letters of Turgenev 1961, Hispano-Russian Literary Relations 1964, Shakespeare and Russian Culture 1965, Pushkin's "Monument" 1967, From Classicism to Romanticism 1970, Pushkin, Comparative Studies 1972, Zur Geschichte Russisch-Europäischer Literaturtraditionen 1975, Russia y España: Una Respuesta Cultural 1975, International Significance of Class 1975, Boldino Readings 1976, The Theory of Lanuage, English Studies, Celtology 1976. *Address:* 7 Linia 2, log. 3, Leningrad 199034, U.S.S.R.

ALEKSEYEV, Pyotr Fyodorovich; Soviet journalist; b. 8 July 1913, Sergeyevka, Kustanai Region, Kazakh S.S.R.; ed. Tashkent Pedagogical Inst. and Higher Party School of the CPSU. Young Communist League Official, Uzbek S.S.R. 1931-32; journalistic work 1932-62; Editor-in-Chief Selskaya Zhizn (Country Life) 1962-71; Editor-in-Chief Sovietskaya Rossia 1971-75; Editor, Izvestia 1975–; mem. CPSU 1940-; mem. Cen. Auditing Comm. of the CPSU 1966-71, Cand. mem. Cen. Cttee. CPSU 1971-76, mem. Cen. Cttee. CPSU 1976-. *Address:* Izvestia, Pushkinskaya pl. 5, Moscow, U.S.S.R.

ALEMÁN, Miguel; Mexican government official; b. 1905; ed. Univ. Nacional Autónoma de Mexico. Private law practice, later Magistrate, High Court of Justice 1928-35; Senator 1935-36; Gov. of Veracruz 1936-40; Sec. for Govt. under Pres. Camacho 1940-45; Pres. of Mexico 1946-52; later Pres. Consejo Nacional de Turismo. *Address:* Mariano Escobedo 726, México 5, D.F., México.

ALESSANDRI RODRÍGUEZ, Jorge; Chilean businessman and politician; b. 1896; ed. Univ. Nacional de Chile. Deputy for Santiago 1925; fmr. Prof. School of Engineering, Santiago; fmr. mem. Public Works Comm.; Dir. of a number of paper factories and sugar refineries; Vice-Pres. Bank of South America; Minister of Finance 1948-50; Senator 1957; Pres. of Chile 1958-64; candidate for Pres. election 1970. *Address:* Santiago, Chile.

ALEWYN, Richard, PH.D.; German professor of German literature; b. 24 Feb. 1902; ed. Lessing-Gymnasium, Frankfurt, and Univs. of Frankfurt, Marburg, Munich and Heidelberg. Privatdozent, Univ. of Berlin 1931; Assoc. Prof. Univ. of Heidelberg 1932-33; Visiting Prof. Sorbonne, Paris 1933-35; Assoc. Prof. Queens Coll., New York 1939-48, Prof. 1948-49; Prof. Univ. of Cologne 1949-55, Free Univ. of Berlin 1955-59; Prof. of German Literature, Univ. of Bonn 1959-67, Emeritus 1967; Guest Lecturer at several univs. in U.S.A. 1952-; Editor Euphorion 1956-62; Hon. mem. Modern Language Assn. of America; mem. Akad. der Wissenschaften zu Göttingen, Rheinisch-Westfälische Akad. der Wissenschaften, PEN Club, Deutsche Akad. für Sprache und Dichtung. *Publications:* Vorbarocker Klassizisumus 1926, Johann Beer 1932, Über Hugo von Hofmannsthal 1958, Das Grosse Welttheater 1959, French trans. L'Univers du Baroque 1964, Probleme und Gestalten 1974. *Address:* 8131 Perchting bei Starnberg, Federal Republic of Germany. *Telephone:* 08161/7308.

ALEXANDER, Sir Alex (Sandor), Kt.; British business executive; b. 21 Nov. 1916; m. Margaret Alexander 1946; two s. two d.; ed. Charles Univ., Prague. Founder, Westwick Frosted Products (merged with Ross Group Ltd. 1954); Dir. Ross Group 1954, Chair. Ross Frozen Food Div. 1954-61, Poultry Div. 1961-68; Man. Dir. and Chief Exec. Ross Group Ltd. 1967-69, Chair. 1969-; Dir. Imperial Tobacco Group Ltd. 1969-; Chair. Imperial Foods Ltd. 1971-79; Chair. J. Lyons and Co. 1979-; Pres. Nat. Assn. of Frozen Food Producers 1957, 1971; Chair. Pea Growers' Research Org. 1959-61, Nat. Assn. of Poultry Packers 1965, Fed. of British Poultry Industries 1966-68; Dir. British United Trawlers Ltd. 1969, Deputy Chair. 1972-; Dir. Nat. Westminster Bank Ltd., Eastern Region 1973; Dir. Ransomes, Sims, Jefferies Ltd. 1974, Marchwiel 1978-, Inchcape Insurance Holdings 1978-, Allied Breweries 1978-, Tate and Lyle (non exec.); Gov. British Nutrition Foundation 1975; mem. Court, Univ. of East Anglia 1961, Agriculture Econ. Devt. Cttee. 1974; Chair. Theatre Royal Norwich Trust Ltd. 1969; Trustee Glyndebourne Arts Trust 1975; Chair. Norwich Theatre Trust; Pres. British Food Export Council 1973-76; Fellow, Royal Soc. of Arts, Inst. of Man., Inst. of Grocery Distribution 1975; High Sheriff of Norfolk 1976-77. *Leisure interests:* shooting, tennis, painting, theatre. *Address:* Westwick Hall, Norwich, Norfolk, NR10 5BW; 1 Lygon Place, Ebury Street, London, SW1W 0JR; Imperial House, Grosvenor Place, London, S.W.1, England. *Telephone:* 01-730 0288 (Office). Swanton Abbott 664(Home).

ALEXANDER, Clifford L., LL.D.; American lawyer and government official; b. 21 Sept. 1933, Harlem, New York; m. Adele Logan; one s. one d.; ed. Harvard Univ., Yale Univ., Malcolm X Coll. Practised as lawyer in New York; Foreign Affairs Officer, Nat. Security Council Staff 1963-64; Deputy Special Asst., later Deputy Special Counsel to Pres. Lyndon Johnson 1964-67; Chair. Equal Employment Opportunity Comm. 1967-69, resigned; mem. Comm. for the Observance of Human Rights 1968; Special Amb. to Swaziland 1968; Partner in Arnold & Porter, law firm; news commentator and host, Black and White TV programme 1972-76; Prof. of Law, Howard Univ. 1973-74; U.S. Sec. of the Army Jan. 1977-. *Address:* Department of the Army, The Pentagon, Washington, D.C. 20310, U.S.A.

ALEXANDER, Sir Darnley Arthur Raymond, Kt., C.B.E., LL.B; Nigerian chief justice ; b. 28 Jan. 1920, Castries, St. Lucia, West Indies; s. of Pamphile Joseph Alexander and the late Lucy Alexander; m. Mildred Margaret King 1943; one s. one d.; ed. St. Mary's Coll., St. Lucia, Univ. Coll., London. Middle Temple 1938, called to bar 1942; legal service in Jamaica and Turks and Caicos

Islands 1944-57, Western Nigeria 1957-63, Solicitor-Gen. 1960, Q.C. 1961; Judge High Court of Lagos (later Lagos State) 1964-69; Chief Justice of South-Eastern State 1969-75, of Fed. Republic of Nigeria 1975-; mem. Nigerian Soc. of Int. Law 1968-, Int. Advisory Board African Law Reports 1973-; Chair. Nigerian Advisory Judicial Cttee., and Snr. Advocates Appointments Cttee. 1975-. *Leisure interests:* cricket, football, swimming, table tennis, reading. *Address:* Supreme Court, Lagos (Office); 15 Ikoyi Crescent, Ikoyi, Lagos, Nigeria (Home). *Telephone:* 635426 (Office); 682203 (Home).

ALEXANDER, Donald Crichton, LL.B.; American lawyer and government official; b. 22 May 1921, Pine Bluff, Ark.; s. of William Crichton and Ella Temple (née Fox); m. Margaret Louise Savage 1946; two s.; ed. Yale Univ. and Harvard Law School. Assoc. Covington and Burling, law firm 1948-54; Assoc., Taft, Stettinius and Hollister, Ohio, law firm 1954-56, Partner 1956-66; Partner, Dinsmore, Shohl, Coates and Deupree, law firm 1966-73; Commr. of Internal Revenue 1973-77; mem. Comm. on Fed. Paperwork 1975-77. *Publications:* The Arkansas Plantation 1943, numerous articles on federal taxation. *Address:* 2801 New Mexico Avenue, N.W., Washington, D.C. 20007, U.S.A. (Home).

ALEXANDER, Sir (John) Lindsay, Kt., M.A.; British shipowner; b. 12 Sept. 1920, Gloucester; s. of Ernest Daniel Alexander and Florence Mary Mainsmith; m. Maud Lilian Collard 1944; two s. one d.; ed. Alleyn's School and Brasenose Coll., Oxford. Man. Dir. Ocean Transport and Trading Ltd. 1955-71, Chair. 1971-; Chair. Liverpool Port Employers' Assn. 1964-67; Vice-Chair. Nat. Assn. of Port Employers 1965-69; Chair. Cttee. of European Nat. Shipowners' Asscns. 1971-73; Vice-Pres. Chamber of Shipping of U.K. 1973-74, Pres. 1974-75; Dir. Lloyds Bank 1970-, (Deputy Chair. 1979-), Lloyds Bank Int. 1975-, British Petroleum Co. Ltd. 1975-; Hon. Fellow Brasenose Coll. *Leisure interests:* gardening, music, photography. *Address:* Baskervyle, Baskervyle Road, Heswall, Merseyside, L60 8NL, England. *Telephone:* 051-342 3043.

ALEXANDRA, H.R.H. Princess (See Ogilvy, the Hon. Mrs. Angus).

ALEXANDROV (See Aleksandrov).

ALEXEYEV (see Alekseyev).

ALEXIADIS, George; Greek lawyer and public official; b. 18 Dec. 1911, Tropea, Arcadia; s. of Dr. Stavros Alexiadis and Panagiota Giannakopoylos; m. Katherine Tsarpalis 1967; ed. Athens Univ.; practising lawyer 1933-; Legal Adviser to Nat. Bank of Greece 1940; head of a resistance organization and publisher of an underground newspaper 1941-45; Counsellor to Athens Muncipality 1950; fmr. Dir.-Gen. Hellenic Nat. Broadcasting Inst.; Minister of Employment Oct.-Nov. 1973; Medal of Nat. Resistance; Progressive Party. *Publications include:* Legal and Social Aspect of the Idea of the State 1939, Introduction to Land Allotment 1941, Geo-Economy and Geo-Policy of Greek Countries 1945 and 1946, The Reform of Criminal Law in Soviet Russia 1957, Perspective 1960, Political History of Modern Greece 1960-63, The First Balkan Alliance of 1867-1868 1971, The Origins of the Greek-Italian War 1973, A Strange Theory About the French Revolution 1975, Territorial Sea—Continental Shelf and the Turkish Pretensions on the Aegean 1976, The Revolution of a Myth—The Greek-Turkish "Friendship" 1977. *Leisure interests:* stamps, gardening. *Address:* National Bank of Greece, 86 Aeolou Street, Athens; 129 Kiphissias Avenue, Athens 606, Greece (Home). *Telephone:* 3218-930 (Office); 6922-192 (Home).

ALFÖLDI, András; American (born Hungarian) archaeologist and historian; b. 27 Aug. 1895, Pomáz; s. of Anton Alföldi and Charlotte Klein; m. 1st Emma Seidl 1917, one s. one d.; m. 2nd Elisabeth Rosenbaum 1967; ed. Budapest Univ.; fmr. Prof. of Roman History, Inst. for Advanced Study, Princeton; mem. Institut de France, British, Royal Swedish, Lincei, Göttingen, Mainz, Bavarian, Danish, Hungarian, Austrian, Bulgarian and other Acads.; Hon. Fellow Soc. of Antiquaries, London and Scotland, Soc. for Promotion of Roman Studies, Royal Numismatic, Pontif. Accad. di Archeologia, German Archaeological Inst., Spanish, Turkish, and Finnish archaeological and historical socs., French, Swiss, Austrian and Bavarian numismatic socs.; Hon. Ph.D. (Utrecht, Bonn, Paris, Ghent); Gold Medal, City of Rome, Order of Merit (Fed. Repub. of Germany), "Ehrenzeichen" for Arts and Sciences (Austria), Les Palmes Académiques (France), Golden Cross of King George II (Greece), etc. *Publications:* Der Untergang der Römerherrschaft in Pannonien 1924-26, Studies on the World Crisis of the Third Century A.D., The Huns, Studies on the Monarchical Representation in Rome 1934-35; contrib. to Cambridge Ancient History 1935-38, Festivals of Isis in Rome in the IVth Century 1937, Studies on the Social Morphology, Art and Archaeology of the Nomads of Eurasia 1936-37, Die Kontorniaten 1941-43, Daci Romani in Transilvania 1940, A History of Aquincum 1942, Zu den Schicksalen Siebenbürgens 1944, The Conversion of Constantine and Pagan Rome 1948, Valentinian I and the Senate 1950, Studies on Zoomorphic Headgear 1950, The Origins of the Roman Patriciate 1951, The Birth of Imperial Symbolism 1952-53, Caesar's Monarchy 1953, The Tragic Costume 1954, The Trojan Legend in Rome 1957, The Roman Surname 1966, The Domination of Cavalry in Greece and Rome after the Kings 1966, Early Rome and the Latins 1965, Imperial Vows and Alexandrine Gods 1966, The Role of the Cavalry in Greece and Rome 1967, Caesar in 44 B.C. 1971, Vol. 2 1979, The Oldest Structural Patterns of the Roman State and Society 1972, The Nummi Quadrigati 1972, The Two Laurel Trees of Augustus 1973, Early Roman History (research report and new contrib.) 1974, Tempestas Mariana 1974, Octavian's Rise to Power 1975, Redeunt Saturnia Regna 1971-79, Aion in Merida and Aphrodisias 1979. *Address:* 272 Mercer Street, Princeton, N.J. 08540, U.S.A. *Telephone:* 609-921-6127

ALFRINK, H.E. Cardinal Bernardus Johannes; Netherlands ecclesiastic; b. 5 July 1900; ed. Aartsbisschoppelijk Seminarie, Culemborg, Groot-Seminarie, Rijsenburg, Pauselijk Bijbel-Instituut, Rome and Jerusalem. Prof. of Holy Scripture, Aartsbisschoppelijk Groot-Seminarie, Rijsenburg 1933-45; Prof. for Old Testament and Hebrew Language, Univ. of Nijmegen 1945-51; titular Archbishop of Tyana and Coadjutor of the Archdiocese of Utrecht 1951-55; Archbishop of Utrecht 1955-76; created Cardinal by Pope John XXIII 1960. *Publications:* Het Boek Prediker, Het Boek Ecclesiasticus, Epistels en Evangelien volgens het Romeins Missaal, Het Passieverhaal der vier Evangelisten, Het Boek Josue. *Address:* 10 A 1 Amersfoortseweg, 3705 CJ Zeist, Netherlands.

ALFVÉN, Hannes Olof Gösta, PH.D.; Swedish professor of plasma physics; b. 30 May 1908; ed. Univ. of Uppsala. Prof. of Theory of Electricity, Royal Inst. of Tech., Stockholm 1940-45, of Electronics 1945-63, of Plasma Physics 1963; mem. Swedish Science Advisory Council; mem. Swedish Acad. of Sciences, Swedish Acad. of Eng. Sciences; Foreign Assoc. U.S. Acad. of Sciences; mem. other foreign Acads.; Gold Medal, Royal Astronomical Soc. (U.K.) 1967; Nobel Prize for Physics 1970; Lomonosov Gold Medal, U.S.S.R. Acad. of Sciences 1971. *Publications:* papers in physics and astrophysics and: Cosmical Electrodynamics 1950, On the Origin of the Solar System 1954, Cosmical Electrodynamics: Fundamental Principles (with C.-G. Fälthammar) 1963, Worlds-Antiworlds 1966. *Address:* Division of Plasma Physics, Royal Institute of Technology, Stockholm 70, Sweden.

ÅLGÅRD, Ole, CAND.JUR.; Norwegian diplomatist; b. 9 Sept. 1921; s. of Gabriel and Bertha Ålgård; m. Rigmor Braathe; one s. one d.; ed. Univ. of Oslo; joined Ministry of Foreign Affairs 1946; Sec., Moscow 1947-50; Chargé d'Affaires, Vienna 1951-56; Ministry of Foreign Affairs, Chief of Section 1956-71; Deputy Perm. Rep. to UN 1961-64; Counsellor, Norwegian Embassy, Brussels and Perm. Rep. to Council of Europe 1964-66; Amb. to People's Repub. of China 1966-71; Perm. Rep. to UN Jan. 1972-; del. to UN Gen. Assembly 1970-71. *Leisure interests:* history, fishing. *Address:* Permanent Mission of Norway to United Nations, 825 Third Avenue, 18th Floor, New York, N.Y. 10017 (Office); 10 Gracie Square, New York, N.Y. 10028, U.S.A. (Home). *Telephone:* 212-879-8670.

ALI, Ahmad Mohamed, LL.B., D.P.A.; Saudi Arabian development banker; b. 13 April 1934, Medina Munawarra; s. of Mohamed Ali; m. 1968; one s. two d.; ed. Cairo Univ., Univ. of Michigan, New York State Univ.; Vice-Chancellor, King Abdul Aziz Univ., Jeddah 1967-72; Deputy Minister for Tech. Affairs, Ministry of Educ. 1972-75; Pres. Islamic Devt. Bank 1975-. *Address*: Islamic Development Bank, P.O. Box 5925, Jeddah, Saudi Arabia. *Telephone*: 33994, 33995.

ALI, (Chaudhri) Mohamad, M.SC.; Pakistani politician; b. 15 July 1905, Jullundhar, India; s. of Chaudri Khair-ud-din and Ayesha; m. Razia Sultana 1931; four s. one d.; ed. Lahore and Univ. of Punjab. Lecturer in chemistry, Islamia Coll., Lahore 1927-28; joined Indian Accounts and Audit Service 1928; Accountant-Gen., Bahawalpur 1932-36; entered Govt. of India service 1936; Under-Sec. Finance Dept. 1938-39; Deputy Financial Adviser 1939-43; Joint Financial Adviser, Ministry of Supply 1943-45; Financial Adviser War and Supply 1945-47; mem. Steering Cttee. of Partition Council 1947; Sec.-Gen. to Govt. of Pakistan 1947-51; Minister of Finance 1951; Minister of Finance and Econ. Affairs 1954-55; Prime Minister and other portfolios 1955-56; Leader Nizam-E-Islam Party; retired from active politics Oct. 1969. *Publication:* The Emergence of Pakistan 67. *Address:* 86-D/1, Gulberg III, Lahore, Pakistan. *Telephone:* 81434.

ALI, H. A. Mukti; Indonesian comparative religion specialist; b. 1923, Central Java; m.; two s. one d.; ed. Indonesia, Pakistan, Canada. Vice-Chancellor, IAIN "Sunan Kalijaga", Yogjakarta;

Minister of Religious Affairs 1971-78; mem. Supreme Advisory Council Aug. 1978-. *Publications:* Modernization of Islamic Schools, Comparative Religion, its Method and System, Religion and Development in Indonesia etc. *Leisure interest:* table tennis. *Address:* Jl. Merdekar Utara M, Jakarta (office); Sagaa Gk1/100, Yogyakarta, Indonesia (Home).

ALI, Muhammad; American boxer; b. (as Cassius Marcellus Clay) 17 Jan. 1942, Louisville, Ky.; s. of Cassius Marcellus Clay Sr. and Odetta Lee Grady; m. 1st Sonje Roi (dissolved); m. 2nd Belinda Boyd 1967, four c.; m. 3rd Khalilah Ali (divorced 1976); m. 4th Veronica Porche 1977; ed. Louisville. Amateur boxer 1954-60, Olympic Games light-heavyweight champion 1960; professional boxer 1960-, won world heavyweight title Feb. 1964, defeating Sonny Liston; adopted name Muhammad Ali 1964; stripped of title after refusing to be drafted into U.S. Army 1967, won case in U.S. Supreme Court and returned to professional boxing 1970; regained world heavyweight title Oct. 1974, defeating George Foreman in Zaire; lost title to Leon Spinks 1978, regained title from Spinks 1978; 56 victories in 59 fights up to end Sept. 1978; mem. of U.S. Black Muslim movement; acts in film The Greatest 1976 and in Freedom Road (television) 1978; Hon. Consul-Gen. for Bangladesh in Chicago Feb. 1978-. *Publications:* The Greatest: My Own Story (autobiography) 1975. *Address:* c/o Deer Lake Training Camp, Pennsylvania, U.S.A.

ALI, S. Osman; Pakistani international finance official; b. 1 July 1912, Simla; m.; two s. one d.; ed. Univs. of Madras and Oxford. Entered Indian Civil Service 1934; various admin. and judicial posts 1935-58; Sec. to Gov. 1959-66, Amb. to Belgium, Luxembourg and the EEC 1966-68; Perm. Rep. to European Office of UN and Specialized Agencies in Geneva 1966; Exec. Dir. IBRD, IFC and IDA 1968, World Bank 1968-72; Man. Dir. Pakistan Industrial Credit and Investment Corpn. 1973-75; Gov. State Bank of Pakistan Dec. 1975-; Sitara-i-Quaid-i-Azam 1958; Sitara-i-Pakistan 1964. *Address:* c/o State Bank of Pakistan, P.O. Box 4456, Chundrigar Road, Karachi, Pakistan.

ALI, Sadiq, B.A.; Indian politician; b. 1910, Udaipur, Rajasthan; ed. Allahabad Univ. Gen. Sec. Indian Nat. Congress, New Delhi, Perm. Sec. All-India Congress Cttee. 1938-48; mem. Lok Sabha 1950-52, Rajya Sabha 1958-; Gen. Sec. Indian Nat. Congress 1958-64, 1966-69; Pres. Opposition Congress Party 1971-73; Chief Editor AICC Economic Review 1967-71; Chair. Gandhi Smarak Sangrahalaya Samiti 1966-77; Gov. of Maharashtra 1977-; associated with Indian freedom movement 1930; Chair. Gandhi Nat. Museum and Library, New Delhi. *Publications:* Know Your Country, Congress Ideology and Programme, Culture in India, General Election 1957, Towards Socialist Thinking in Congress. *Address:* Raj Bhavan, Bombay 35, Maharashtra, India.

ALI, Salah Omar Al-; Iraqi politician and diplomatist; b. 1 July 1937; m.; three c.; ed. Univ. of Baghdad. Fmr. Minister of Information; mem. Revolutionary Command Council of Iraq 1968-70, of Baath Socialist Party; Editor-in-Chief Al-Thawra 1969; Amb. to Sweden 1972-76, to Spain 1976-78; Permanent Rep. of Iraq to UN 1978-. *Address:* Permanent Mission of Iraq to the United Nations, 14 East 79th Street, New York, N.Y. 10021, U.S.A.

ALI, Salem Rubia (see Rubbayi, Salem Ali).

ALI KHAN, Begum Liaquat (widow of late Liaquat Ali Khan, fmr. Prime Minister of Pakistan), M.A., B.T.; Pakistani diplomatist; ed. Univs. of Lucknow and Calcutta. Founder Pres. All-Pakistan Women's Assn., Nat. Guard, Naval Reserve and Cottage Industry Projects; chair. various educational, hospital and social work groups; del. to U.N. General Assembly 1952; mem. I.L.O. Expert Cttee. on Recommendations 1955; Amb. to the Netherlands 1954-61, to Italy 1961-66, to Tunisia 1961-64; Gov. Sind Prov. 1973-76. *Address:* Government House, Karachi, Pakistan.

ALI SAMATER, Gen. Mohammed; Somali army officer and politician. Vice-Pres. Somali Repub. 1971-, also Chief of the Armed Forces, Minister of Defence. *Address:* Army Headquarters, Mogadishu, Somalia.

ALIER, Abel, LL.B., LL.M.; Sudanese politician; b. 1933, Bor District, Upper Nile Province; s. of Kwai and Anaai Alier; m. Siama Fatma Bilal 1970; one s. two d.; ed. Univs. of Khartoum and Yale. Former advocate; District Judge in El Obeid, Wad Medani and Khartoum until 1965; participant in Round Table Conf. and mem. Twelve Man Cttee. to Study the Southern problem 1965; mem. Constitution Comms. 1966-67, 1968; fmr. mem. Law Reform Comm. and Southern Front; Minister of Supply and Internal Trade Oct. 1969-June 1970; Minister of Works June 1970-July 1971; Minister of Southern Affairs 1971-72; Vice-Pres. Oct. 1971-; Pres. Supreme Exec. Council for the South 1972-78; mem. Bd. of Dirs., Industrial Planning Corpn.; mem. Nat. Scholarship Bd. *Leisure interests:* tennis, athletics, reading, history and literature. *Address:* People's Palace, Khartoum, Sudan.

ALIGER, Margarita Iosifovna; Soviet poetess; b. 7 Oct. 1915, Odessa; m. Konstantin Makarov-Rakitin 1936 (died 1941); two d.; ed. Gorky Literary Inst. Member C.P.S.U. 1942-; State prizewinner 1943; Order of Red Banner of Labour 1965; Badge of Honour; Order of Friendship of the Peoples 1975. *Publications:* Year of Birth 1938, The Railway 1939, Stones and Grasses 1940, To the Memory of the Brave 1942, Zoya 1942, Lyrics 1943, Your Victory 1946, Selected Poems 1947, A Tale of Truth 1947, First Thunder 1947, First Signs 1948, The Lenin Hills 1953, The Beautiful Metcha-River 1953, Man on His Way 1954, Lyrics 1955, From a Notebook 1957, Lyrics and Poems 1959, A Few Steps 1964, Russia: My Native Country 1967, Poetry 1967, Stronger than Death 1968, The Blue Hour 1970, Poems in 2 vols. 1970, Verse and Prose (2 vols.) 1975; Essays: Chilean Summer 1965, Return to Chile 1966; trans. poems of Aragon, Pablo Neruda, Bagriana, etc. 1968. *Address:* 17 Lavrushinsky per. app. 41, Moscow 109017, U.S.S.R. *Telephone:* 2315894.

ALIKHANI, Ali Naghi; Iranian economist and politician; b. 1929; m. Suzanne Demeuzes 1954; three s. one d.; ed. Alborz Coll., Teheran, Univs. of Teheran and Paris. Econ. Adviser to Nat. Iranian Oil Co. and other orgs.; Minister of Economy 1963-69; Chancellor, Univ. of Teheran 1969-71; Chair. Int. Bank of Iran, Iran Refractories Co., Alupan Aluminium Co. 1971-; Chair. Council of Materials and Energy Research Center, Arya Mehr Univ. of Tech.; mem. High Council of Environmental Conservation, governing Bds. of Inst. for Int. Political and Econ. Studies and Reza Shah Kabir Univ., Bd of trustees Abu-Ali Sina Univ., Iran Center for Man. Studies. *Leisure interest:* hunting. *Address:* 264 28th Street, Park Avenue (Abbassabad), Teheran, Iran. *Telephone:* 686896.

ALIMARIN, Ivan Pavlovich; Soviet chemist; b. 11 Sept. 1903, Moscow; s. of Pavel and Maria Alimarin; m. Zoya Alimarina 1936; one s. one d.; ed. Moscow Univ. At All-Union Research Inst. of Mineral Raw Materials 1923-53; Prof. Moscow Inst. of Fine Chemical Tech. 1950-1953, Moscow Univ. 1953-; at Inst. of Geochemistry and Analytical Chem., U.S.S.R. Acad. of Sciences 1949-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-66, mem. 1966; Hon. mem. Analytical Chem. Soc., England 1968-; Acad. of Science, Finland 1974-, Chemical Soc. of the German Democratic Repub.; Hon. D.Phil. (Polytechnical Univ., Budapest) 1971, (Göteborg) 1973, D.Sc. (Birmingham, U.K.); State Prize; Order of Lenin (three times), and other decorations. *Publications:* Qualitative Polymicroanalysis 1952, Inorganic Ultramicroanalysis 1960, Qualitative Microanalysis of Minerals and Ores 1961. *Leisure interests:* photography, fishing. *Address:* V.I. Vernadsky Institute of Geochemistry and Analytical Chemistry, 47A Vorobyevskoe Shosse, 117334 Moscow, U.S.S.R.

ALIOTO, Joseph Lawrence; American lawyer and politician; b. 1916, San Francisco, Calif.; s. of Giuseppe and Domenica (Lazio) Alioto; m. Angelina Genaro 1941 (divorced 1977); five s. one d.; ed. Roman Catholic coll.; fmr. govt. lawyer, Washington, specializing in anti-trust cases; returned to private practice in Calif.; Sec. Rice Growers' Assn. of Calif.; Mayor of San Francisco 1968-76; Democrat. *Leisure interests:* music, reading, golf. *Address:* City Hall, San Francisco, Calif. 94102, U.S.A.

ALIREZA, Ali A.; Saudi Arabian diplomatist; m.; ed. Falah School, Victoria Coll., Alexandria, Univ. of California, Berkeley; attached to del. to UN, San Francisco 1945; Adviser to H.R.H. Prince Faisal 1946; Minister Plenipotentiary 1947; del. to UN 1947-53; Minister of State attached to Office of Prince Faisal 1955; del. to Bandung Conf. Indonesia 1955; mem. Bd. of Dirs., Saudi Arabian Monetary Agency 1970-; Amb. to U.S.A., also accred. to Mexico 1975-. *Address:* Embassy of Saudi Arabia, 1520 18th Street, N.W., Washington, D.C. 20036, U.S.A.

ALIYEV, Geidar Ali Rza Ogly; Soviet politician; b. 10 May 1923, Baku, Azerbaizhan; ed. Azerbaizhan State Univ.; official of security forces and mem. Council of Ministers of Nakhichevan Autonomous Repub. 1941-49; student 1949-50; leading official of Ministry of Internal Affairs and Cttee. of State Security (KGB) of Azerbaizhan S.S.R.; Deputy Chair. KGB, Azerbaizhan S.S.R. 1964-67, Chair. 1967-, rank of Maj.-Gen.; cand. mem. of Cen. Cttee. of Communist Party of Azerbaizhan (CPA) 1966-69, mem. Cen. Cttee. CPA 1969-, mem. Bureau of CPA 1969-, First Sec. Cen. Cttee of CPA 1969-; mem. CPSU 1945-, mem. Cen. Cttee. CPSU 1971-, cand. mem. Politburo of Cen. Cttee. CPSU 1976-; Deputy to U.S.S.R. Supreme Soviet 1970-74; Vice-Chair. Soviet of the Union 1974; Order of Lenin and other decorations. *Address:* Central Committee of the Communist Party of the Azerbaizhan S.S.R., Baku, U.S.S.R.

ALKHIMOV, Vladimir Sergeyevich; Soviet foreign trade official and banker; b. 25 Oct. 1919; ed. Leningrad Financial and Economic Inst., and Acad. of Foreign Trade; mem. CPSU 1942-; Chief of Dept., later Deputy Dir., Research Inst. of Commercial Exchange 1950-57; Commercial Counsellor, U.S.A. 1957-60; Deputy Chief, later Chief of Dept., Ministry of Foreign Trade 1961-67; Deputy Minister of Foreign Trade 1967-76; Chair. Admin. Board of U.S.S.R. State Bank 1976-; Deputy to U.S.S.R. Supreme Soviet 1977-; Hero of Soviet Union, Order of Lenin (twice), Gold Star Medal, Order of the Red Banner and other decorations. *Address:* State Bank of the U.S.S.R., 12 Neglinnaya ulitsa, Moscow, U.S.S.R.

ALLADAYE, Maj. Michel; Benin army officer; b. 1940, Abomey; m.; five c.; ed. Lycée Victor Ballot, Ecole Mil. de Saint-Cyr, Ecole Supérieure Technique du Génie, Versailles; Commdr. 1st Eng. Corps, Dahomey Armed Forces, Kandi 1963-67; promoted to rank of Capt. 1967; worked successively in Eng. Unit, Army Gen. Staff Command, Services Battalion Command; Commdr., Dir. Mil. Engs.; Minister of Foreign Affairs 1972-, of Co-operation 1976-; Chevalier Légion d'honneur. *Address:* Ministère des Affaires Etrangères, Cotonou, Benin.

ALLAF, Mowaffak; Syrian diplomatist; b. 17 May 1927, Damascus; m.; three c.; ed. Law Faculty, Syrian Univ. in Damascus. Commercial Attaché, Embassies in Egypt and Saudi Arabia 1950-52; Ministry of Foreign Affairs 1954; served U.S.S.R., Cyprus, Turkey; mem. Perm. Mission of Syria to UN 1957-58, of U.A.R. 1958-59; Ministry of Foreign Affairs 1960-68; Perm. Rep. to UN, Geneva 1968-74; Dir. of Int. Orgs. Dept., Ministry of Foreign Affairs 1974-75; Perm. Rep. to UN 1975-78; del. to various UN agencies incl. ILO 1969-72; participated in various UN confs. and Islamic Conf., Jeddah 1974, Ministerial Conf. of Non-Aligned Countries, Lima 1975; mem. UN Special Cttee. on Question of Defining Aggression, on Principles of Int. Law and others; Chair. del. to 7th Special Session of Gen. Ass. 1975, Deputy Chair. del. to Gen. Assembly 1975. *Address:* c/o Ministry of Foreign Affairs, Damascus, Syria.

ALLAIS, Maurice; French economist and engineer; b. 31 May 1911, Paris; s. of Maurice and Louise (Caubet) Allais; m. Jacqueline Bouteloup 1960; one d.; ed. Ecole Polytechnique and Ecole Nationale Supérieure des Mines de Paris. Dept. of Mines and Quarries 1937-43; Dir. Bureau de Documentation Minière 1943-48; econ. research 1948-; Prof. of Economic Analysis, Ecole Nationale Supérieure des Mines de Paris 1944-; Prof. of Econ. Theory, Inst. of Statistics, Univ. of Paris 1947-68; Dir. of Research, Centre Nat. de la Recherche Scientifique 1954-; Dir. Centre for Econ. Analysis 1944-; Prof. Graduate Inst. of Int. Studies, Geneva 1967-70; Dir. Séminaire Clément Juglar d'Analyse Monétaire, Univ. of Paris (Nanterre) 1970-; Dr. h.c. (Groningen); Lanchester Prize, American Soc. for Operation Research, Gold Medal, Société d'Encouragement pour l'Industrie Nationale, Gold Medal, Centre Nationale de la Recherche Scientifique and other awards; Ingénieur Général au Corps des Mines; Officier Légion d'honneur, Officier Palmes académiques. *Publications:* Abondance ou misère 1946, Economie et intérêt 1947, Traité d'économie pure 1952, La gestion des houillères nationalisées et la théorie économique 1953, Les fondements comptables de la macroéconomique 1954, Le pendule paraconique 1957-59, Manifeste pour une société libre 1958, L'Europe unie, route de la prospérité 1960, Le Tiers-Monde au carrefour—Centralisation autoritaire ou planification concurrentielle 1962, L'Algérie d'Evian 1962, The Role of Capital in Economic Development 1963, Reformulation de la théorie quantitative de la monnaie 1965, L'Impôt sur le capital 1966, The Conditions of the Efficiency in the Economy 1967, Growth without Inflation 1968, Growth and Inflation 1969, La libéralisation des relations économiques internationales 1970, Les théories de l'équilibre économique général et de l'efficacité maximale 1971, Forgetfulness and Interest 1972, The General Theory of Surplus and Pareto's Fundamental Contribution 1973, Inequality and Civilization 1973, La création de monnaie et de pouvoir d'achat par le mécanisme du crédit 1974, The Psychological Rate of Interest 1974, L'inflation française et la croissance 1974, Classes sociales et civilisations 1974, Taux d'expansion de la dépense globale et vitesse de circulation de la monnaie 1975, Inflation répartition des revenus et indexation 1976, L'impot sur le capital et la réforme monétaire 1977. *Leisure interests:* history, physics, swimming, skiing. *Address:* 15 rue des Gâte-Ceps, 92210 Saint Cloud, France. *Telephone:* 602-53-35.

ALLAN, Sir Colin Hamilton, K.C.M.G., O.B.E., M.A.; British overseas administrator; b. 23 Oct. 1921, Wellington, New Zealand; m. Betty Dorothy Evans 1955; three s.; ed. Hamilton High School, Canterbury Univ., Magdalene Coll., Cambridge Univ.; Cadet, Admin. Service, British Solomon Islands 1945; District Commr., Western Solomons 1946-49, Malaita 1949-53; Special Lands Commr. 1953-57; Sr. Asst. Sec. Western Pacific High Comm. 1957-59; Asst. Resident Commr. New Hebrides 1959-66, Resident Commr. 1966-73; Gov. and C.-in-C. Seychelles, Commr. British Indian Ocean Territory 1973-76; Gov. Solomon Islands and High Commr. for Western Pacific 1976-78; Commdr. Ordre Nat. du Mérite 1966. *Publications:* Customary Land Tenure in the british Solomon Islands Protectorate 1958; articles on overseas admin., anthropology, etc. *Leisure interest:* reading the Financial Times. *Address:* 23 Alpha Street, Cambridge, New Zealand. (Home).

ALLEGRO, John Marco; British philologist, archaeologist, author and playwright; b. 17 Feb. 1923, London; s. of John Marco Allegro and Mabel Jessie Perry; m. Joan Ruby Lawrence 1948; one s. one d.; ed. Wallington County Grammar School and Univ. of Manchester; Royal Navy 1941-46; Manchester Univ. 1947-52; research in Hebrew dialects, Magdalen Coll., Oxford 1952-53; British rep. on Int. Editing Team for Dead Sea Scrolls, Jerusalem 1953–; Lecturer in Comparative Semitic Philology and Hebrew, Univ. of Manchester 1954-62, in Old Testament and Intertestamental Studies 1962-70; Adviser to Jordanian Govt. on Dead Sea Scrolls 1961–; Trustee and Hon. Sec. Dead Sea Scrolls Fund 1962-70. *Publications:* The Dead Sea Scrolls 1956, The People of the Dead Sea Scrolls 1958, The Treasure of the Copper Scroll 1960, Search in the Desert 1964, The Shapira Affair 1965, Discoveries in the Judaean Desert of Jordan V 1968, The Sacred Mushroom and the Cross 1970, The End of a Road 1970, The Chosen People 1971, Lost Gods 1977, The Dead Sea Scrolls and the Christian Myth 1979. *Leisure interests:* sketching, photography, walking. *Address:* Craigmore, Ballasalla, Isle of Man, United Kingdom. *Telephone:* Castletown 2345.

ALLEN, Sir Douglas Albert Vivian, G.C.B. (see Crowham, Baron).

ALLEN, Geoffrey, PH.D., F.R.S., F.INST.P., F.P.R.I.; British polymer scientist and administrator; b. 29 Oct. 1928, Clay Cross, Derbyshire; s. of John James and Marjorie Allen; m. Valerie Frances Duckworth 1972; one d.; ed. Clay Cross Tupton Hall Grammar School, Univ. of Leeds; Postdoctoral Fellow, Nat. Research Council, Canada 1952-54; Lecturer, Univ. of Manchester 1955-65, Prof. of Chemical Physics 1965-75; Prof. of Polymer Science, Imperial Coll. of Science and Tech., Univ. of London 1975-76, of Chemical Tech. 1976-; Chair. Science Research Council 1977-; Hon. M.Sc. (Manchester). *Leisure interests:* walking, talking, eating. *Address:* 16 Burghley Road, Wimbledon, London, SW19 5BH, England.

ALLEN, George Cyril, C.B.E., M.COM., PH.D., F.B.A.; British university professor Emeritus; b. 28 June 1900, Kenilworth, Warwicks.; s. of George Henry and Elizabeth Allen; m. Eleanora Cameron McKinlay Shanks 1929 (died 1972); ed. King Henry VIII School, Coventry, and Univ. of Birmingham; Lecturer Nagoya Commercial Coll. Japan 1922-25; Research Fellow and Lecturer, Univ. of Birmingham 1925-29; Prof of Econs. and Commerce, Univ. Coll., Hull 1929-33; Prof. of Econ. Science, Univ. of Liverpool 1933-47; Prof. of Political Econ., Univ. Coll., London Univ. 1947-67; Temp. Asst. Sec. Board of Trade 1940-44, Temp. Counsellor, Foreign Office Sept. 1945-April 1946; mem. various Govt. Cttees. 1944- (mem. Monopolies and Restrictive Practices Comm. 1950-62); Pres. Econ. Section, British Assen. 1950; Dir. Anglo-Nippon Trust 1964-68; mem. Acad. Planning Board, Univ. of Ulster 1965-70; Fellow British Acad.; Vice-Pres. Royal Econ. Soc., Econ. Research Council; Hon. Fellow, School of Oriental and African Studies, Univ. of London; Trustee, Inst. of Econ. Affairs; Order of the Rising Sun 3rd Class (Japan). *Publications:* Modern Japan and its Problems 1928, The Industrial Development of Birmingham and the Black Country 1929, British Industries and their Organisation 1933, (5th revision 1970), Japan, The Hungry Guest 1938, A Short Economic History of Japan 1946 (revised 1972), Japan's Economic Recovery 1958, part-author of The Industrialisation of Japan and Manchukuo 1940, Western Enterprise in Far Eastern Economic Development 1954, and of Western Enterprise in Indonesia and Malaya 1957, The Structure of Industry in Britain 1961 (revised 1970), Japan's Economic Expansion 1965, Japan as a Market and Source of Supply 1967, Japan's Place in Trade Strategy 1968, Monopoly and Restrictive Practices 1968, The British Disease 1976, How Japan Competes 1978. *Leisure interests:* water-colour painting, literature. *Address:* Flat 15, Ritchie Court, 380 Banbury Road, Oxford, OX2 7PW, England. *Telephone:* 0865 50417.

ALLEN, Gen. Lew, M.S., PH.D.; American air force officer; b. 30 Sept. 1925, Miami, Dade, Fla.; s. of the late Lew Allen and Zella Holman; m. Barbara McKelden Frink 1949; two s. three d.; ed. Gainesville Junior Coll., U.S. Mil. Acad. West Point, Air Tactical School Tyndall, Univ. of Illinois. Pilot, Carswell Air Force Base, Tex. 1946-50; Physicist, Los Alamos Scientific Laboratory, N.M. 1954-57; various posts Kirkland Air Force Base, N.M. 1957-61;

Space Tech. Office and OSD, Washington, D.C. 1961-65; OSAF, Los Angeles, Calif. 1965-68; OSAF Washington, D.C. 1968-70; OSAF, Los Angeles, Calif. 1970-71; SAMSO, Los Angeles, Calif. 1971-73; c/s, HQ AFSC, Andrews Air Force Base, Md. 1973; Deputy to Dir. of Central Intelligence for the Intelligence Community 1973; Dir. NSA and Chief of Central Security Service, Fort Meade, Md. 1973-77; Commdr., AFSC, Andrews Air Force Base 1977-78; Vice-Chief of Staff USAF April-June 1978, Chief of Staff USAF 1978-; mem. Nat. Acad. of Sciences (Acad. of Eng.) 1977-; Defense Distinguished Service Medal, Distinguished Service Medal of the Air Force, Legion of Merit with 2 Oak Leaf Clusters, Joint Service Commendation and various other U.S. awards and medals, Order of Nat. Security (Repub. of Korea). *Leisure interests:* balloonist, racquet ball, scuba diving, tennis, jogging. *Address:* Headquarters United States Air Force, the Pentagon, Washington, D.C. 20330 (Office); Quarters 7, Fort Myer, Va. 22211, U.S.A. (Home). *Telephone:* (202) OX7-9225 (Office); (703) 527-6695 (Home).

ALLEN, Sir Peter Christopher, Kt., M.A., B.SC.; British industrial chemist and business executive; b. 8 Sept. 1905, Ashtead, Surrey; s. of the late Sir Ernest King Allen and Florence Mary (née Gellatly); m. 1st Violet Sylvester Wingate-Saul 1931 (died 1951), two d.; m. 2nd Consuelo Maria Linares Rivas; ed. Harrow School and Trinity Coll., Oxford; joined Brunner, Mond and Co. (now Mond Div. of I.C.I.) 1928; Man. Dir. Plastics Div., Imperial Chemical Industries (I.C.I.) 1942-48, Chair. Plastics Div. 1948-51, Dir. of I.C.I. 1951-71, Dep. Chair. 1963-68, Chair. 1968-71; Pres. Canadian Industries Ltd. 1959-62, Chair. 1962-68; Pres. and Chair. I.C.I. of Canada Ltd. 1961-68; Dir. Royal Trust Co., Canada 1961-64; mem. Export Council for Europe 1962-65; Vice-Chair. of Assen. of British Chemical Manufacturers 1963-65; Pres. British Plastics Fed. 1963-65; mem. Iron & Steel Holding and Realisation Agency 1963-67; mem. British National Export Council (Chair. 1970-73), Chair. Cttee. for Exports to Canada 1964-67; mem. National Econ. Devt. Cttee. for Chemical Industry 1964-67; Commonwealth Export Council 1964-67; Pres. Chemical Industries Assen. Ltd. 1965-67; mem. Council of Confederation of British Industry 1965-67; Deputy Chair. African Explosives & Chemical Industries Ltd. 1968-71; Dir. ICIANZ 1968-71, Bank of Montreal 1968-75, British Insulated Callender's Cables (BICC) 1971-; Pres. Univ. of Manchester Inst. of Science and Tech. 1968-71; mem. Industrial Policy Group 1969-72; mem. British Overseas Trade Bd. 1972-75; Advisory Dir. New Perspective Fund 1973-; Fellow, British Inst. of Man., Inst. of Dirs.; Hon. D.Tech. (Loughborough); Hon. Fellow, Trinity Coll., Oxford; Gov. Harrow School. *Publications:* The Railways of the Isle of Wight 1928, Locomotives of Many Lands 1954, On the Old Lines 1957, Narrow Gauge Railways of Europe (with P.B. Whitehouse) 1959, Steam on the Sierra (with R.A. Wheeler) 1960, Round the World on the Narrow Gauge (with P.B. Whitehouse) 1966, The Curve of Earth's Shoulder (with Consuelo Allen) 1966, Rails in the Isle of Wight (with A. B. MacLeod) 1967, Famous Fairways 1968, Play the Best Courses 1973, Narrow Gauge the World Over (with P. B. Whitehouse) 1976. *Leisure interests:* foreign travel, railways, golf, writing, philately. *Address:* Telham Hill House, Battle, Sussex, England.

ALLEN, Raymond Bernard, M.D., PH.D.; american educationist; b. 7 Aug. 1902, Cathay, N.D.; s. of Anthony James Allen and Ellen Faulkner; m. 1st Dorothy Sheard 1931 (divorced 1963), three s. three d.; m. 2nd Emmy P. Stone 1968; ed. Univ. of Minnesota and the Mayo Foundation. Assoc. Dean in charge of Graduate Studies, Coll. of Physicians and Surgeons, Columbia Univ. 1934-36; Assoc. Dir. N.Y. Post-Graduate Medical School and Hospital, Columbia Univ. 1933-36; Dean, Wayne Univ. Coll. of Medicine 1936-39; Exec. Dean, Chicago Colls. of Univ. of Illinois 1939-46; Dean, Coll. of Medicine 1943-46; Pres. Univ. of Washington, Seattle 1946-52; Dir. Psychological Strategy Board 1952; Chancellor, Univ. of California, Los Angeles 1952-59; Dir. U.S. Operations Mission to Indonesia 1959-61; Chief, Office of Research Co-ordination, Pan American Health Org., Washington 1962-65, Office of Health and Population Dynamics 1965-67; Consultant, Health-Educ., Population Dynamics 1967-; Consultant on Research, Office of Population, U.S. AID 1969-71; Consultant to Asia Foundation 1971-. *Publications include:* Medical Education and the Changing Order. *Address:* 14136 Wadsworth Court, Annandale, Va. 22003, U.S.A.

ALLEN, Thomas, A.R.C.M.; British opera and concert singer; b. 10 Sept. 1944, Seaham, Co. Durham; s. of Thomas Boaz and Florence Allen; m. Margaret Holley 1968; one s.; ed. Robert Richardson Grammar School, Ryhope, Royal Coll. of Music, London; principal baritone, Welsh Nat. Opera 1969-72, Royal Opera House, Covent Garden 1972-78, Glyndebourne Opera 1973-, singing in Die Zauberflöte 1973, Le Nozze di Figaro 1974, Così fan Tutte 1975, Don Giovanni 1977, The Cunning Little Vixen 1977; Queen's Prize 1967, Gulbenkian Fellow 1968. *Leisure interests:* golf, gardening, sailing, ornithology, walking. *Address:* c/o Royal Opera House, Covent Garden, London, WC2, England.

ALLEN, Walter Ernest, B.A., F.R.L.S.; British author and professor of English (retd.); b. 23 Feb. 1911, Birmingham; s. of Charles Henry Allen and Annie Maria Allen; m. Peggy Yorke Joy; two s. two d.; ed. King Edward's Grammar School and Birmingham Univ.; freelance author and broadcaster; Visiting Prof. of English, Coe Coll., Iowa 1955-56, Vassar Coll., U.S.A. 1963-64, Univ. of Kansas 1967; Literary Editor New Statesman 1959-61; Prof. of English Studies, New Univ. of Ulster 1968-73; Berg Prof. of English, New York Univ. 1970-71; Visiting Prof. of English, Dalhousie Univ., Canada 1973-74; C. P. Miles Prof. of English, Virginia Polytechnic Inst. and State Univ., U.S.A. 1974-75. *Publications:* novels: Innocence is Drowned 1938, Blind Man's Ditch 1939, Living Space 1940, Rogue Elephant 1946, Dead Man Over All 1950; literary criticism: The English Novel 1954, Tradition and Dream 1964, George Eliot 1964, The Urgent West 1969, Transatlantic Crossing 1971. *Address:* 6 Canonbury Square, London, N.1, England. *Telephone:* 01-226 7085.

ALLEN, Woody (Allen Stewart Konigsberg); American actor, writer, producer and director; b. 1 Dec. 1935, Brooklyn, New York; s. of Martin and Nettie (née Cherry) Konigsberg; m. 1st. Harlene Rosen; divorced; 2nd. Louise Lasser 1966, divorced 1969; ed. City Coll. of New York and New York Univ.; made his debut as performer in 1961 at the Duplex in Greenwich Village; has performed in variety of nightclubs across the U.S.; produced the play Don't Drink the Water at the Morosco Theater 1966, and at the Broadhurst Theatre 1969; made his Broadway début as Allan Felix in Play it Again, Sam, which he also wrote; films include What's New Pussycat 1965, Casino Royale 1967, What's Up, Tiger Lily 1967, Take the Money and Run 1969, Bananas 1971, Everything You Always Wanted to Know About Sex 1972, Play it Again, Sam 1972, Sleeper 1973, Love and Death 1976, The Front 1976, Annie Hall 1977, Interiors 1978, Manhattan 1979; during the 1950s wrote for television performers Herb Shriner 1953, Sid Caesar 1957, Art Carney 1958-59, Jack Parr and Carol Channing. Also wrote for the Tonight Show and the Gary Moore Show. Academy Award for Best Director, and Best Writer for Annie Hall. *Publications:* Getting Even 1971, Without Feathers 1975, has also contributed to Playboy and New Yorker. *Leisure interests:* chocolate milk shakes, poker, chess and baseball; also noted clarinettist. *Address:* 930 Fifth Avenue, New York, N.Y. 10021, U.S.A.

ALLER, Lawrence Hugh, M.A., PH.D.; American astronomer; b. 24 Sept 1913, Tacoma, Wash.; s. of late Leslie E. Aller and late Lena B. Aller; m. Rosalind Duncan Hall 1941; two s. one d.; ed. Univ. of California, Berkeley, and Harvard Univ. Soc. of Fellows, Harvard Univ. 1939-42; Asst. Prof. Indiana Univ. 1945-48; Assoc. Prof. Univ. of Michigan 1948-54, Prof. 1954-62; Prof. of Astronomy, Univ. of Calif., Los Angeles 1962-; Visiting Prof. Australian Nat. Univ. 1960-61, Univ. of Toronto 1961-62, Univ. of Sydney 1968, Univ. of Tasmania 1969; Guest Investigator, Mount Wilson Observatory 1946-; mem. N.A.S.; Fellow, American Acad. of Arts and Sciences. *Publications:* Atoms, Stars and Nebulae (with Leo Goldberg) 1942, Atmospheres of Sun and Stars 1953, 1963, Nuclear Transformations, Stellar Interiors and Nebulae 1954, Gaseous Nebulae 1956, Abundance of Elements 1961. *Leisure interests:* photography, travel. *Address:* Astronomy Department, University of California, Los Angeles, Calif. 90024, U.S.A. *Telephone:* (213) 825 3515.

ALLERSLEV JENSEN, Erik; Danish library director; b. 22 May 1911, Holstebro; s. of Sigurd Jensen and Meta Hansen; m. Gudrun Franck 1938 (died 1956); two d.; ed. Danish Library School. Asst. Librarian, Frederiksberg Public Library 1933-37; Head of Dept. of Printed Catalogue Cards, State Inspectorate for Public Libraries 1937-42; Dir. Danish Library Bureau 1942-46; Dep. Dir. State Inspection of Public Libraries 1946-59, Dir. Danish Library School 1946-56; Dir. School of Advanced Library Studies, Gothenburg 1958-68; Chair. Public Libraries Section of Int. Fed. of Library Assens. (I.F.L.A.) 1965-69, mem. exec. bd. I.F.L.A. 1967-73. *Publications:* Dansk Bogfortegnelse (The Danish National Bibliography) 1935-60, Decimal-Klassedeling (Decimal Classification), 4th Edition, 1954, Lærebog i Bibliotekskteknik (Manual of Library Economy), 4th Edition, 1959, Dansk bibliotekslitteratur (Danish Library Literature: A Bibliography) 1950, Biblioteker og Læsning (Libraries and Reading) 7 vols. 1956-64, Skrifter udsendt af den Nordiske Fortsœttelsesskole for Bibliotekarer (Publs. from the Scandinavian Library School in Gothenburg) 4 vols. 1960-62, Bibliotheksstudier (Library Studies) 7 vols. 1963-70; Editor Reol (Scandinavian Library Journal) 1962-67; Editor Scandinavian (Public Library Quarterly) 1968-69. *Address:* Frederiksberg Allé 66, DK-1820 Copenhagen V, Denmark.

ALLEY, Col. Alphonse; Benin army officer and politician; b. 9 April 1930, Bassila; s. of Amadou Alley and Amina Akim; m.; six c.; ed. primary schools at Lomé, Togo, secondary school in Senegal, and military colls. in France and Ivory Coast; joined 5th Senegalese Rifle Regt., Dakar; served in Indo-China 1950-53, Morocco 1955-56, Algeria 1959-61; returned to Dahomey 1961; Second-Lieut. Dahomeyan Army 1961, Capt. 1962, Major 1964, Lieut.-Col. 1967, Chief of Staff 1967; Pres. of Dahomey Dec. 1967-68; Sec.-Gen. for Nat. Defence 1970-72; arrested Feb. 1973, sentenced to twenty years' detention. *Leisure interests:* all forms of sport.

ALLIALI, Camille; Ivory Coast lawyer and diplomatist; b. 23 Nov. 1926; m.; five c.; ed. Dakar Lycée and Lycée Champollion, Grenoble. Former Advocate, Court of Appeal, Abidjan; Press Sec. Parti Démocratique de la Côte d'Ivoire 1959-, Deputy 1958-60; Vice-Pres. Nat. Assembly, Ivory Coast 1957-60; Senator of French Community 1959-61; Amb. to France 1961-63; Perm. Del. UNESCO 1961-63; Minister of Foreign Affairs 1963-66; Minister of Justice 1966-; Commdr. Légion d'honneur and many other decorations. *Address:* Ministry of Justice, B.P. 1519, Abidjan, Ivory Coast.

ALLIBONE, Thomas Edward, C.B.E., PH.D., D.SC., D.ENG., F.I.E.E., F.AM.I.E.E., F.R.S.; British scientist; b. 11 Nov. 1903, Sheffield; s. of Henry James and Eliza Allibone; m. Dorothy Margery Boulden, L.R.A.M., A.R.C.M. 1931; two d.; ed. Sheffield and Cambridge Univs. High Voltage Lab. Metropolitan Vickers Co. 1930-44; Univ. of Calif. (British team, Atomic Bomb) 1944-45; Dir. Research Lab., Assoc. Electrical Industries, Aldermaston 1946-63; Scientific Adviser to A.E.I. Ltd. 1963; Dir. Assoc. Electrical Industries (Woolwich) Ltd. 1950-63; Chief Scientist, Central Electricity Generating Bd. 1963-70; External Prof. of Electrical Eng., Leeds Univ. 1967-; Visiting Prof. of Physics, City Univ. 1971-; Vice-Pres. Inst. Physics 1948-52; Chair. Research Cttee., Electrical Research Assen. 1955-62; Vice-Pres. Royal Inst. 1955-57, 1969-72; mem. Council, Physical Soc. 1953-57, Council of Inst. of Electrical Engineers 1937-53, Advisory Council, Royal Mil. Coll., Shrivenham; Pres. Section A British Assen. 1958, Inst. of Information Scientists 1967-69; Trustee, British Museum 1968-75; Hon. D.Sc., Hon. D.Eng. *Publications:* High Voltage Electrical Phenomena and Thermonuclear Reactions, Release and Use of Atomic Energy, Rutherford, the Father of Nuclear Energy, The Royal Society and its Dining Clubs; contribution to Lightning and Lightning Protection. *Leisure interests:* history, archaeology, gardening, handicrafts. *Address:* York Cottage, Lovel Road, Winkfield, Windsor, England. *Telephone:* Winkfield Row 4501.

ALLINSON, Walter Leonard, C.M.G., M.V.O., M.A.; British diplomatist; b. 1 May 1926, London; s. of Walter and Alice Frances (Cassidy) Allinson; m. Margaret Patricia Watts 1951; three d.; ed. Friern Barnet Grammar School, Merton Coll., Oxford, Royal Coll. of Defence Studies. Asst. Principal, Petroleum Div., Ministry of Fuel and Power 1947-48; Asst. Prin., later Prin., Ministry of Educ. 1948-58 (Asst. Private Sec. to Minister 1953-54); First Sec., Commonwealth Relations Office 1958-60; served in Lahore and Karachi, Pakistan 1960-62, Madras and Delhi, India 1963-66; Deputy, later Head of Perm. Under-Sec.'s Dept., FCO 1968-70; Counsellor and Head of Chancery, later Deputy High Commr., Nairobi, Kenya 1970-73; Deputy High Commr. and Minister, Delhi, India 1975-78; British High Commr., Lusaka, Zambia Feb. 1978-; Kenya Scouts Medal of Merit 1973. *Leisure interests:* rough gardening, walking, reading. *Address:* c/o Foreign and Commonwealth Office, King Charles Street, London, S.W.1, England.

ALLIS, William Phelps; American physicist; b. 15 Nov. 1901, Menton, France; s. of Edward Phelps Allis, Jr. and Amédine (Sgrena) Allis; m. Nancy Olive Morison 1935; two s. one d.; ed. Massachusetts Inst. of Tech., Univ. of Nancy (France), Princeton Univ. and Univ. of Munich; mem. of Physics Faculty, Massachusetts Inst. of Technology 1925-; Prof. of Physics 1950-67, Prof. Emer. 1967-; on staff, Radiation Lab., Office of Scientific Research and Devt. 1940-42; Consultant, Los Alamos Scientific Lab. 1952-76; Asst. Sec.-Gen. for Scientific Affairs, NATO 1962-64; Vice-Pres. American Acad. of Arts and Sciences 1960-62; U.S. Army 1942-45; Visiting Prof., Harvard Univ. 1960; Visiting Fellow, Oxford Univ. 1968; Exchange Prof., Univ. de Paris-Sud 1969, 1972, 1974, 1976-; Chair. Gaseous Electronics Conf. 1949-62, Hon. Chair. 1966-; Visiting Prof., Middle East Tech. Univ. 1970, Univ. of South Florida 1971, Instituto Técnico de Electrónica, Lisbon, Univ. of Western Ontario 1973; Fulbright Sr. Lecturer Univ. of Innsbruck, Austria 1974-75; Consultant, Office Nat. d'Etudes et de Recherches Aerospatiales 1972, 1974, 1976, 1977; Fellow, American Physical Soc., American Assen. for the Advancement of Science, American Acad. of Arts and Sciences, Inst. of Physics (London), royal soc. of Arts; Legion of Merit (U.S.A.) 1945; Officer Légion d'honneur 1976; Dr. h.c. (Paris-Sud) 1976. *Publications:* Thermodynamics and Statistical Mechanics 1952, Nuclear Fusion 1960, Waves in Anisotropic Plasmas 1963, Electrons, Ions and Waves 1967. *Leisure interests:* climbing, skiing, canoeing, opera. *Address:* Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); 33 Reservoir Street, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 617-876-7535.

ALLISON, Rt. Rev. Sherard Falkner, D.D., LL.D.; British ecclesiastic; b. 19 Jan. 1907; s. of Rev. W. S. Allison; m. Ruth Hills 1936; one s. (and one s. deceased) two d.; ed. Jesus Coll. and Ridley Hall, Cambridge. Curate, St. James's, Tunbridge Wells 1931-34; Chaplain, Ridley Hall, Cambridge 1934-36; Vicar, Rodbourne Cheney, Swindon 1936-40, Erith 1940-45; Principal, Ridley Hall 1945-50; Bishop of Chelmsford 1951-61, of Winchester and Prelate of the Order of the Garter 1961-74. *Leisure interests:* sailing, water-colour sketching, bird-watching. *Address:* Winton Lodge, Aldeburgh, Suffolk, England. *Telephone:* Aldeburgh 2485.

ALLMAND, Warren, B.A., B.C.L.; Canadian politician; b. 19 Sept. 1932, Montreal; m. Patricia Burns 1966; two s. one d.; ed. Loyola Coll., St. Francis Xavier, McGill and Paris Univ.; admitted to Quebec Bar 1958; practised law 1958-66; part-time Lecturer in Political Science and Commercial Law 1962-65; mem. Parl. for Notre-Dame-de Grâce 1965-; mem. several Parl. Standing Cttees.; Solicitor-Gen. 1972-75; Minister of Indian Affairs and Northern Devt. 1976-77, of Consumer and Corporate Affairs 1977-79; Liberal. *Address:* 3522 Connaught Avenue, Montreal, Quebec, Canada.

ALLON, Maj.-Gen. Yigal; Israeli soldier, agriculturist and politician; b. 10 Oct. 1918, Kfar Tabor, Lower Galilee; m.; one s. one d.; ed. Kaduri Agricultural Coll., Univs. of Jerusalem and Oxford; joined Hagana 1931, Commdr. of Palmach Company 1941, in Syria and Lebanon with Allies, Dep. Commdr., Palmach 1943, Commdr.-in-Chief, Palmach 1945-48; charged with Hagana operations in Palestine 1945-47, in command, Upper Galilee, Central Israel, Jerusalem Corridor, the Negev and N. Sinai 1947-48; Maj.-Gen. (Reserves) Zahal (Israel Defence Forces); Mem. and Co-Founder Kibbutz Genossar 1937-; Minister of Labour 1961-67; Deputy Prime Minister 1967-77; Minister for Immigrant Absorption 1967-69, of Educ. and Culture 1969-74, of Foreign Affairs 1974-77; mem. Exec. Cttee. Hakibbutz Hameuchad; fmr. Sec.-Gen. Achduth Ha-avodah Socialist Party; mem. Labour Party and Labour-Mapam Alignment. *Publications:* The Story of Palmach 1951, Curtain of Sand 1960, The Making of Israel's Army 1970, The Shield of David 1970, My Father's House 1976, Three Wars and One Peace, Israël—la lutte pour l'espoir 1977. *Address:* The Knesset, Jerusalem (Office); Kibbutz Genossar, Israel (Home).

ALLOTT, Gordon Llewellyn, B.A., LL.B.; American lawyer and politician; b. 2 Jan. 1907, Pueblo, Colo.; s. of late Leonard J. Allott and Bertha Louise Allott; m. Welda O. Hall 1934; two s.; ed. Univ. of Colorado. Admitted to Colorado Bar; practised law in Lamar; Colorado; District Attorney, Prowers County 1946-48; active in Young Republican League of Colorado 1935-40, Gen. Counsel, Young Republican Nat. Fed. 1938-41, Chair. 1941-46, mem. Exec. Cttee. 1946-49; served army 1942-46; Lieut.-Gov. of Colorado 1950-54; U.S. Senator from Colorado 1955-73; Senate Chair., Republican Party Cttee. 1969-73; U.S. del. to the UN 1961; mem. Inter-Parl. Union 1956-73, Vice-Chair. 1958-66; mem. Gen. Advisory Comm. to the U.S. Arms Control and Disarmament Agency 1974-. *Leisure interests:* fishing, swimming, reading, music. *Address:* 560 Capitol Life Center, Denver, Colorado 80203 (Office); 3427 South Race Street, Englewood, Colorado 80110, U.S.A. (Home). *Telephone:* 534-7414 (Office); 761-1777 (Home).

ALMEYDA MEDINA, Clodomiro; Chilean professor and politician; b. 1923, Santiago; m. Irma Cáceres; three c.; ed. Alemán High School and Faculty of Law, Univ. de Chile. Joined Socialist party 1941; held various posts rising to Under Sec.-Gen.; Prof. of Philosophy, Teacher Training Inst., Univ. de Chile 1952; Prof. of Philosophy, Univ. Popular Valentín Latelier; Prof. of Rural Econ., Univ. de Chile; Dir. School of Sociology, Univ. de Chile 1966, Prof. of Political Sciences, Schools of Law and Political and Admin. Studies; Prof. of Dialectical Materialism, School of Sociology; mem. Central Cttee. Socialist Party; Minister of Labour 1952-53, of Mines 1953-61; Deputy 1961-65; mem. Chilean del. to UN Gen. Ass. 1970; Minister of Foreign Affairs 1970-73, of Defence 1973; imprisoned Sept. 1973, released Jan. 1975, granted political asylum in Romania.

ALMOGI, Yosef; Israeli politician; b. 4 May 1910, Poland; s. of Zevi and Hanna Almogi; m. Shifra Weinblatt 1934; two s. Settled in Israel 1930; mem. Kibbutz Hakovesh 1930; mem. Hagana Command 1933-39; with British Army 1939-40; in German captivity 1941-45; Gen. Sec. Haifa Labour Council, mem. Exec. Cttee. Histadrut 1947-59; elected to Parl. 1955; Gen. Sec. Mapai 1959-61; Minister without Portfolio 1961-62; Minister of Devt. and Housing

1962-64; Minister of Labour 1968-73; Mayor of Haifa 1973-76; Chair. Jewish Agency for Israel. *Address:* 120 Arlozorov Street, Haifa, Israel. *Telephone:* 04-640775.

ALMOND, Gabriel Abraham; American educator; b. 12 Jan. 1911, Rock Island, Ill.; s. of the late David and Lisa Almond; m. Dorothea Kaufmann 1937; three c.; ed. Univ. of Chicago. Fellow, Social Science Research Council 1935-36, 1946; Instructor, Political Science, Brooklyn Coll. 1939-42; Office of War Information, Washington 1942-45, War Dept., European Theatre of Operations 1945; Research Assoc. Inst. of Int. Studies, Yale Univ. 1947-49, Assoc. Prof. of Political Science 1949-51; Assoc. Prof. of Int. Affairs, Princeton Univ. 1951-54, Prof. 1954-57, Prof. of Politics 1957-59; Prof. of Political Science, Yale 1959-63; Prof. of Political Science, Stanford Univ. 1963-, Exec. Head, Dept of Political Science, Stanford Univ. 1964-69; Consultant, Air Univ. 1948, Dept. of State 1950, Office of Naval Research 1951, Science Advisory Bd., U.S. Air Force 1960-61; Fellow, American Acad. of Arts and Sciences; Pres. American Political Science Asscn. 1965-66; mem. Social Science Research Council 1956-, American Philosophical Soc.; Fellow, Nat. Endowment for Humanities; Nat. Acad. of Sciences; Overseas Fellowship, Churchill Coll., Cambridge 1972-73. *Publications:* The American People and Foreign Policy 1950, The Appeals of Communism 1954; editor The Struggle for Democracy in Germany 1949, The Politics of the Developing Areas 1960; co-author The Civic Culture 1963; Comparative Politics: A Developmental Approach 1966, Political Development 1970, Crisis, Choice and Change 1973, Comparative Politics Today 1974. *Leisure interests:* carpentry, swimming, bird-watching. *Address:* Stanford University, Stanford Calif. 94305 (Office); 4135 Old Trace Road, Palo Alto, Calif., U.S.A. (Home). *Telephone:* 941-2302.

ALMOND, James Lindsay, Jr., LL.B.; American politician and lawyer; b. 15 June 1898, Charlottesville, Va.; s. of James Lindsay and Edmonia Burgess Almond; m. Josephine Minter 1925; ed. Univ. of Virginia. Asst. Commonwealth's Attorney, Roanoake, Va. 1930-33; Judge, Roanoake Hustings Court 1933-46; mem. U.S. House of Reps. (Dem.) 1946-48; Attorney-Gen. of Virginia 1948-57; Gov. of Virginia 1958-62; Judge, U.S. Court of Customs and Patent Appeals 1963-73, Senior Judge 1973-. *Address:* 208 Wexleigh Drive, Richmond, Va. 23229, U.S.A.

ALONSO, Dámaso, PH.D.; Spanish university professor and writer; b. 1898, Madrid; m. Eulalia Galvarriato (novelist) 1929; ed. Univ. of Madrid. Fmr. Lecturer in Spanish at Univs. of Berlin, Cambridge, Stanford, California, Hunter College, New York, Inst. of Int. Education, New York, at Columbia Univ. New York; Visiting Prof. at Yale, Johns Hopkins Univ., Harvard; Prof. at Centre of Historical Studies, Madrid 1923-36; Prof. of Spanish Language and Literature, Valencia Univ. 1933-39; Prof. of Romance Philology, Madrid Univ. 1939-68; mem. Royal Spanish Acad. (Dir.), Royal Acad. of History, Madrid, Modern Humanities Research asscn. (Pres. 1960); foreign mem. Arcadia and Lincei (Rome), Crusca (Florence), American Philosophical Soc.; Corresp. mem. British Acad.; Pres. Int. Asscn. of Hispanists 1962-65; Dr. h.c. (Lima, Bordeaux, Rome, Hamburg, Oxford, Freiburg, Massachusetts, Leeds, Costa Rica and Lisbon). *Publications:* Criticism: Temas gongorinos 1927, La Lengua poética de Góngora 1935, 1950, 1961, La Poesia de San Juan de la Cruz 1946, 1958, 1967 (Italian trans.), Ensayos sobre Poesía española 1944, Vida y obra de Medrano 1948, Pt. II (with S. Reckert) 1958, Poesía Española 1950, Seis calas en la expresión literaria española (co-author) 1951, Poetas españoles contemporáneos 1952, La Primitiva Epica francesa a la luz de una "Nota Emilianense" 1945, Estudios y Ensayos gongorinos 1955, Menéndez Pelayo, Crítico literario, De los siglos oscuros al de oro 1958, Primavera temprana de la literatura europea 1961, Góngora y el Polifemo 1960, Dos españoles del Siglo de Oro 1960, Cuatro poetas españoles 1962, Del Siglo de Oro a este Siglo de siglas 1962, En Torno a Lope 1972; Poetry: Poemas Puros 1921, Oscura Noticia 1944, Hijos de la Ira 1944, Hombre y Dios 1955, Poemas escogidos 1969; Obras Completas I-IV 1971-75; trans. of James Joyce, G. M. Hopkins and von Wartburg into Spanish. *Address:* Avenida A. Alcocer 23, Madrid 16, Spain.

ALPATOV, Mikhail Vladimirovich, D.HIST. ART.; Soviet art historian; b. 10 Dec. 1902, Moscow; ed. St. Michael Secondary School, Moscow and Moscow Univ. Lecturer, Moscow Inst. of Fine Arts and Moscow Univ. 1925-, Prof. 1943; mem. Acad. of Fine Arts 1954; Merited Artist of R.S.F.S.R. 1958, Order of Lenin. *Publications:* Denkmäler der Ikonenmalerei (with Oskar Wulff) 1925, Geschichte der altrussischen Kunst (with N. Brunov) (two vols.) 1932 (both in German), Italian Art at the Time of Dante and Giotto 1939, Essays on the History of Western Art 1964, History of Art (three vols.) 1948-55 (all in Russian), Russian Impact on Art 1950 (in English), Alexander Ivanov, his Life and Work (two vols.) 1956 (in Russian), Geschichte der Kunst Vol. I 1960, II 1964 (in German), Andrej Rublev 1962, Il Maestro del Cremlino 1963 (both in Italian), Die Dresdner Galerie 1966 (in German), Studies of Russian Art (2 vols.) 1957, The Culture and Art of Ancient Russia 1969, Matisse 1969, The Assumption Cathedral in the Kremlin 1971, Treasures of Russian Art of XI-XVI Centuries 1971, Andrey Rublev 1972. *Address:* Surikov Institute of Fine Arts, Moscow, U.S.S.R.

ALPHAND, Hervé; French economist and diplomatist (retd.); b. 31 May 1907; m. Nicole Merenda Alphand (died 1979); ed. Lycée Janson de Sailly and Ecole des Sciences Politiques. Insp. of Finances and Dir. Trade Agreements Div., Ministry of Commerce 1937-38; Sec.-Gen. Ministerial Cttee. of Nat. Economy 1938; Financial Counsellor to Embassy, Washington 1940-41; Dir. of Econ. Affairs, French Nat. Cttee. 1941-44; Dir.-Gen. French Foreign Office 1945; French Amb. to OEEC; Deputy to Atlantic Council 1950; mem. NATO Perm. Council 1952-54; Amb. to UN 1955, to U.S.A. 1956-65; Sec.-Gen. French Foreign Office 1965-72; Grand Officer, Légion d'honneur, Ordre nat. du Mérite. *Publication:* The Astonishment of Being 1977. *Address:* 122 rue de Grenelle, 75007 Paris, France. *Telephone:* 551-44-59.

ALPORT, 1st Baron, cr. 1961, of Colchester; **Cuthbert James McCall Alport,** P.C., T.D., D.L.; British politician; b. 22 March 1912, Johannesburg, South Africa; s. of Prof. A. C. Alport, F.R.C.P. and Janet McCall; m. Rachel Cecilia Bingham 1945; one s. two d.; ed. Haileybury, Cambridge Univ. Pres. Cambridge Union Soc. 1935; Tutor Ashridge Coll. 1935-37; called to Bar; War Service 1939-45; Dir. Conservative Political Centre 1945-50; Conservative M.P. for Colchester 1950-61; Chair. Joint East and Central African Board 1953-55; Asst. Postmaster-Gen. 1955-57; Parl. Under-Sec. of State, Commonwealth Relations Office 1957-59, Minister of State 1959-61; High Commr. to Fed. of Rhodesia and Nyasaland 1961-63; U.K. Del. to Council of Europe, Strasbourg 1964-65; Prime Minister's Special Envoy to Rhodesia 1967; Deputy Speaker, House of Lords 1971-; Adviser to Home Sec. 1973-; Pro-Chancellor, City Univ. 1972-; High Steward of Colchester 1967-; Chair. Trustees of Mercury Theatre, Colchester 1970-; Master Skinners Co. 1969-70; Deputy Lieut. of County of Essex 1974; Pres. Minories Art Gallery, Colchester 1977-. *Publications:* Kingdom in Partnership 1937, Hope in Africa 1952, The Sudden Assignment 1965. *Leisure interests:* preservation and development of Colchester; family and home. *Address:* The Cross House, Layer de la Haye, Colchester, Essex, England. *Telephone:* Layer de la Haye 217.

ALSEN, Hans O.; Swedish commissioner; b. 16 Aug. 1926, Enköping. Commr. Uppsala 1966; Under-Sec. of State, cabinet Office 1969-70; Mem. of Bd. Uplandsbanken 1971; Pres. Kooperativa förbundet (Swedish Co-operative Union and Wholesale Soc.) 1972. *Address:* Kooperativa förbundet, Fack 104, 65 Stockholm 15, Stadsgarden 6, Sweden.

ALSOP, Joseph Wright, B.A.; American journalist and author; b. 11 Oct. 1910, Avon, Conn.; s. of Joseph W. and Corinne D. (Robinson) Alsop; m. Mrs. Susan M. D. Patten 1961; ed. Groton School and Harvard Univ. Mem. New York Herald Tribune staff, New York 1932-35, Washington 1936-37; author (with Robert Kintner) of syndicated column The Capital Parade (North American Newspaper Alliance) 1937-40; Lieut.-Commdr. U.S. Navy 1940, later jointed Volunteer Air Force as aide to Gen. Chennault; captured by Japanese at Hong Kong, exchanged and returned to U.S.; Dir. Lend-Lease Mission to China, Chungking 1942; author (with brother Stewart Alsop) of column Matter of Fact (New York Herald Tribune Syndicate) 1946-58, sole author (Los Angeles Times Syndicate) 1958-74; Legion of Merit, Order of Cloud Banner (China). *Publications:* The 168 Days (with Turner Catledge), Men Around the President (with Robert Kintner) 1938, The American White Paper (with Robert Kintner) 40, We Accuse (with Stewart Alsop) 1955, The Reporter's Trade (with Stewart Alsop) 1958, From the Silent Earth 1964. *Address:* 2720 Dumbarton Avenue, N.W., Washington, D.C. 20007, U.S.A. *Telephone:* 202-965-1770.

ALSTON, Philip Henry, Jr., LL.B.; American diplomatist and former lawyer; b. 19 April 1911, Atlanta, Ga.; s. of Philip H. and May (Lewis) Alston; m. Elkin Goddard 1939; one s. one d.; ed. Univ. of Georgia, Emory Univ., Harvard Law School. Admitted to Georgia bar 1934; practised with firm Alston, Miller & Gaines, Atlanta, Ga. 1934-77; served to Lieut., U.S. Naval Reserve 1942-45; Dir. Printpack, Inc., Triton, Inc., Nat. Data Corpn. until 1977; U.S. Amb. to Australia May 1977-; Trustee Charles Loridans Foundation, Vasser Woolley Foundation until 1977; Pres. Univ. of Georgia Alumni Soc. 1963-64; mem. Board of Regents, Univ. System Georgia 1970-72; fmr. Sr. Warden St. Luke's Episcopal Church, Atlanta; fmr. mem. American Law Inst. Address: American Embassy, Canberra, A.C.T. Australia. *Telephone:* 733-711.

ALTANGEREL, Bat-Ochiryn; Mongolian politician; b. 10 Feb. 1934. Chief Engineer, Ulan Bator Meat Factory 1958-61; Minister of Food Industry 1961-63; First Sec. Ulan Bator cttee., Mongolian People's Revolutionary Party (MPRP) 1963; Alt. mem. Political Bureau, MPRP Cen. Cttee. 1973; Deputy to People's Great Hural. *Address:* Ulan Bator Committee, Mongolian People's Revolutionary Party, Mongolia.

ALTMAN, Robert; American writer, director and producer; b. 20 Feb. 1925, Kansas City; m. Kathryn Reed; two s.; (also two s. one d. from two previous marriages); ed. Univ. of Missouri. Television work includes Bonanza, Kraft Theatre, Bus Stop, Combat, Cannes Film Festival Grand Prize for MASH; mem. Dirs. Guild of America. *Films include:* The Delinquents 1955, The James Dean Story 1957, Nightmare in Chicago 1964, Countdown 1968, That Cold Day in the Park 1969, MASH 1970, Brewster McCloud 1971, McCabe and Mrs. Miller 1972, Images 1972, The Long Goodbye 1973, Thieves Like us 1973, California Split 1974, Nashville 1975, Buffalo Bill and the Indians 1976, Welcome to LA 1977, The Late Show 1977, Three Women 1977, A Wedding, Remember My Name 1979, Quintet 1979, A Perfect Couple 1979; *Address:* 1334 Westwood Boulevard, Los Angeles, Calif. 9002, U.S.A.

ALVAREZ, Luis Walter, S.B., S.M., PH.D., SC.D.; American physicist; b. 13 June 1911; ed. Univ. of Chicago. Research Assoc., Instructor, Asst. Prof., and Assoc. Prof., Univ. of California 1936-45, Prof. of Physics 1945-; Assoc. Dir. Lawrence Radiation Lab. 1954-59, 1974–; Pres. American Physical Soc. 1969; Collier Trophy 1946, Medal for Merit 1947, John Scott Medal and Prize 1953, Einstein Medal 1961, Pioneer Award of American Inst. of Electrical Engineers 1963, Nat. Medal of Science 1964, Michelson Award 1965, Nobel Prize for Physics 1968, Nat. Inventors' Hall of Fame 1977. *Address:* Lawrence Berkeley Laboratory, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 415-843-2740.

ALVAREZ RENDUELES, José Ramón, PH.D., LL.M.; Spanish central banker; b. 17 June 1940, Gijon; m. Eugenia Villar 1964; three s. one d. State Economist 1964; rank of Full Prof. in Public Finance 1973; Head of Econ. Studies in Planning Comm. 1969; Dir. Inst. of Econ. Devt. 1973; Tech. Sec.-Gen. Ministry of Finance 1973-75, Under-Sec. for Econ. 1975-76; Sec. of State for Econ. Affairs 1977-78; Gov. Bank of Spain March 1978-. *Publications:* Valoración actual de la imposición sobre consumo 1971, La Hacienda pública y el medio ambiente 1973. *Leisure interests:* music, literature, lawn tennis. *Address:* Banco de España, Alcalá 50, Madrid 14 (Office); La Masó 21, Madrid 34 (Mirasierra), Spain (Home). *Telephone:* 232-58-47 (Office).

ALVAREZ TABIO, Fernando; Cuban judge and diplomatist; b. 15 July 1907, Havana; ed. Univ. de la Habana. Municipal Judge, Cuba 1933-47; Court Magistrate, Province of Las Villas 1947-50; Magistrate, Court of Justice, Havana 1950-57, Magistrate Pres. 1957-58, dismissed for political reasons 1958; Justice of Supreme Court 1959, and Head of Court of Constitutional and Social Guarantees 1959-; Dir. Inst. for Int. Affairs and Prof. of Constitutional Law and Comparative Govt., School of Political Sciences, Univ. de la Habana 1962-; Perm. Rep. of Cuba to UN 1964; del. to UN Gen. Ass. 1967, 1968, 1969, 1970. *Address:* peoples supreme Court, Havana, Cuba.

ALVERNY, Marie-Thérèse d', DR.PHIL.; French palaeographical archivist; b. 25 Jan. 1903, Boën sur Lignon, Loire; d. of André d'Alverny and Magdeleine des Colombiers de Boismarmin; ed. Univ. de Strasbourg and Univ. de Paris à la Sorbonne, Ecole nat. des Chartes and Ecole pratique des Hautes Etudes, Paris. Librarian Bibliothèque nationale 1928, Asst. Keeper of MSS. 1947-62; Prof. Centre of Higher Studies of Medieval Civilization, Univ. of Poitiers 1957-; Maître de Recherche, Centre national de la Recherche scientifique (CNRS) 1963-66, Dir. of Research 1967-; Gen. Sec. Bibliographical Comm., Int. Union of the History of Science; Co.-Dir. Archives d'Histoire doctrinale et littéraire du Moyen-Age 1954-; mem. Editorial Cttee. Scriptorium 1966-, Manuscripta 1968-, Vivarium 1974; mem. Soc. of Ecole Nat. des Chartes (Pres. 1965-66), Soc. of Latin Studies and Int. Cttee. of Palaeography; Corresp. mem. Mediaeval Acad. of America, American Philosophical Soc., American Acad. of Arts and Sciences, Acad. of Humanities of Barcelona and British Acad.; Chevalier Légion d'honneur; Red Cross War Medal; Dr. h.c. (Oxford). *Publications:* La sagesse et ses sept filles: Recherches sur les allégories de la philosophie et des arts libéraux IXe-XIIe siècle 1946, Catalogue général des manuscrits latins de la Bibliothèque nationale, vols. III 1952, IV 1958, V 1968, Catalogues des manuscrits datés en écriture latine, vols. II 1962 and III 1974, Deux traductions latines du Coran au Moyen Age 1948, Marc de Tolède, traducteur d'Ibn Tumart 1950-51, Avicenna latinus in vols. 1962-72, Alain de Lille, Textes inédits, avec une introduction sur sa vie et ses oeuvres 1965, Al-Kindi, De Radiis 1975, L'Homme comme symbole, Le microcosme 1976 and many articles on medieval history. *Leisure interest:* gardening. *Address:* Centre National de la Recherche Scientifique, 40 avenue d'Iéna, Paris 75116 (Office); 58 rue de Vaugirard, Paris 6e; and Clérac, par Meyrannes (Gard), France (Homes). *Telephone:* 548-09-03 (Paris home).

ALWYN, William, C.B.E., F.R.A.M.; British composer; b. 7 Nov. 1905, Northampton; m. 1st Olive Pull (divorced), two s.; m. 2nd Doreen Mary Carwithen; ed. Northampton Grammar School, Royal Acad. of Music. Prof. of Composition, Royal Acad. of Music 1926-55; Chair. Composers' Guild of Great Britain 1949, 1950, 1954; Collard Fellow, Worshipful Co. of Musicians 1938; Fellow, British Film Acad. 1958. *Compositions:* 2 operas: Juan, or the Libertine 1975, Miss Julie 1977; 5 Symphonies 1950, 1953, 1956, 1959, 1973, Sinfonietta for Strings 1970, 3 Concerti Grossi 1942, 1951, 1964, Lyra Angelica Concerto for Harp and Strings 1954, String Quartet no. 1 in D minor 1953, no. 2 "Spring Waters" 1975, Fantasy-Waltzes for Piano; song cycle: "Mirages"; film scores include: Odd Man Out, Fallen Idol, The True Glory; books: Ariel to Miranda — ■ Journal 1968, An Anthology of 20th Century French Poetry 1969, Winter in Copenhagen, Mirages 1971, Daphne, or the Pursuit of Beauty 1972, The World in my Mind 1975. *Address:* Lark Rise, Blythburgh, Halesworth, Suffolk, IP19 9LT, England. *Telephone:* Blythburgh 331.

ALZAMORA, Carlos; Peruvian diplomatist; b. 20 May 1926, Lima; s. of Carlos and María Pía Alzamora; m. Juana Leguía 1959; joined Ministry of Foreign Affairs 1943, Foreign Service 1949, served in missions to Bolivia, Brazil, Ecuador, Italy, OAS, Paraguay, U.S.A.; Under-Sec. for Econ. and Integration Affairs, Ministry of Foreign Affairs 1969-71; Head of first trade mission to China 1971; Amb. and Perm. Rep. to UN Office in Geneva 1972-75, to UN, New York 1975-78; mem. dels. to several sessions of Gen. Ass. incl. sixth and seventh special sessions, to ECOSOC, Conf. of Cttee. on Disarmament, UNCTAD III and IV; head of dels. to various int. confs. on devt., of Group of 77 (Sec.-Gen. of second ministerial meeting 1971), and on non-alignment, GATT, ILO and UNDP; Amb. in special missions on econ. co-operation to France, U.S.A. and Germany; negotiator of Andean Integration Agreement 1969-71; Vice-Pres. Gen. Assembly of UN 1975, 1977; Alt. Exec. Dir., World Bank Bd. 1971. *Address:* Ministerio de Relâciones Exteriores, 359 Azangaro, Lima, Peru.

AMADO, Jorge; Brazilian novelist; b. 10 Aug. 1912, Itabuna, Bahia; s. of João Amado de Faria and Eulalia Leal Amado; m. Zelia Gattai 1945; one s. one d. Calouste Gulbenkian Prize, Acad. du Monde Latin 1971. *Publications include:* Mar Morto, Jubiabá, The Violent Land, São Jorge dos Ilheus, Cacau, Suor, Capitães da Areia, ABC de Castro Alves, Bahia de Todos os Santos, O Amor do Soldado, Seara Vermelha, O Cavaleiro da Esperança, O Mundo da Paz, Os subterrâneos da Liberdade, Gabriela Cravo e Canela, Os velhos marinheiros, Os pastores da noite, Dona Flor e seus dois maridos! Tenda dos Milagres, Teresa Bautista Cansada de Guerra. *Leisure interests:* reading, gardening, cats, poker. *Address:* Rua Alagoinhas 33, Rio Vermelho-Salvador, Bahia, Brazil. *Telephone:* 80362.

AMALDI, Edoardo, PH.D.; Italian physicist; b. 5 Sept. 1908, Carpaneto; m; two s. one d.; ed. Rome Univ. fmr. Prof. Gen. Physics, Rome Univ.; mem. Accademia Naz. dei Lincei, Royal Soc. of Sciences of Uppsala, U.S.S.R. Acad. of Sciences; Hon. mem. Royal Inst. of Great Britain, Nat. Acad. of Sciences of U.S.A., Royal Soc. (U.K.); Hon. D.Sc. (Glasgow and Oxford). *Publications:* various papers on atomic and nuclear problems. *Address:* University of Rome, Piazzale delle Scienze 5, Rome, Italy.

AMBARTSUMYAN, Victor Amazaspovich; Soviet astrophysicist; b. 18 Sept. 1908, Tbilisi; m. Veza Ambartsumyan 1931; two s. two d.; ed. Leningrad Univ. and Pulkovo Observatory. Lecturer and research worker Leningrad Univ. 1931-43; Prof. Astrophysics Erevan Univ. 1947-; Corresp. mem. U.S.S.R. Acad. of Sciences 1939-53, mem. 1953-; mem. CPSU 1940-; founder and Dir. Byurakan Astrophysics Observatory 1945-; mem. Armenian Acad. of Sciences 1943-, Pres. 1947-; Vice-Pres. Int. Astronomical Union 1948-55, Pres. 1961-64; Past Pres. Int. Council of Scientific Unions (ICSU) 1969; Deputy Supreme Soviet U.S.S.R. 1950-; mem. Foreign Affairs Comm., Soviet of Union; mem. Cen. Cttee. Communist Party of Armenia; specialist on problems of theoretical astrophysics; Corresp. mem. French Acad. of Sciences, German Acad. of Sciences (Berlin); Hon. mem. American Acad. of Arts and Sciences; Foreign Assoc. N.A.S. (U.S.A.) 1959; Foreign mem. Royal Soc. 1969, Acad. des Sciences 1978-; mem. Indian Nat. Acad. of Sciences; State Prize 1946, 1950; Hero of Socialist Labour twice, Hammer and Sickle Gold Medal, five Orders of Lenin, two Orders of Red Banner of Labour. *Publications:* Teoretischeskaya astrofizika 1939, Evolyut-

siya zvezd i astrofizika 1947, Novyi sposob rascheta rasseyania sveta v mutnoi srede 1942, O rasseyaniys sveta atmosferami planet 1942, K voprosu o diffusnom otrazheniy sveta mutnoi sredoi 1943, Nauchnye Trudy (2 vols.) 1960, Problemy Vnegalktricheskikh Issledovaniy in Voprosy Kosmogoniy, Vol. 8 1962, Problemy Evolyutsiy v selennoy 1968. *Address:* Academy of Sciences of Armenian S.S.R., 24 Ulitsa Barekamutyan, Erevan, U.S.S.R.

AMBRIÈRE, Francis; French writer and journalist; b. 27 Sept. 1907; ed. Univs. of Dijon and Paris. Before Second World War was Editor Nouvelles Littéraires and dramatic critic Mercure de France; served in French Army in Second World War; prisoner in Germany and Poland; Dir. of Guides Bleus 1945-72; Prés.-Dir. Gén. of L'Université des Annales 1947-72; dramatic critic of monthly Les Annales; mem. Jury, Prix Théophraste Renaudot 1945-; Vice-Pres. of Jury, Prix Albert-Londres 1972-; Officer Légion d'honneur, Commdr. des Arts et Lettres, Officer Order of Cedar (Lebanon), Order Polonia Restituta. *Publications:* La vie secrète des Grands Magasins 1932, Le favori de François Ier 1936, Les Grandes vacances (Prix Goncourt 1946), Le solitaire de La Cervara 1947, La galerie dramatique 1949, Le Maroc 1952. *Address:* 15 rue Sainte-Genevieve, Cauvigny, 60730 Sainte-Geneviève, France.

AMELING, Elly; Netherlands opera singer; b. (as Elisabeth Sara Ameling) 1938, Rotterdam; studied singing with Jo Bollekamp, with Jacoba and Sam Dresden, and with Bodi Rapp; studied French art song with Pierre Bernac; has given recitals in Europe, South Africa, Japan; debut in U.S.A. 1968, annual tours of U.S.A. and Canada 1968-; has sung with Concertgebouw, New Philharmonic Orchestra, BBC Symphony Orchestra, Berlin Philharmonic, Cincinnati Symphony, San Francisco Symphony, Toronto Symphony, Chicago Symphony; has appeared in Mozart Festival, Washington, D.C. 1974, Caramoor Festival 1974, Art Song Festival, Princeton, N.J. 1974; major recordings, Mozart Concert, Handel Concert, Cantatas (Bach), Mörike Lieder (Wolf), Aimez-vous Handel?, Aimez-vous Mozart?, Christmas Oratorio (Bach), Symphony No. 2 (Mahler), Te Deum (Bruckner), Italienisches Liederbuch (Wolf); First Prize, Concours Int. de Musique, Geneva; Grand Prix du Disque, Edison Prize, Preis der Deutschen Schallplattenkritik, Stereo Review Record of the Year Award; Knight Order of Orange-Nassau. *Address:* c/o Mr. Silvio Samomar, Concert Directie Dr. G. de Koos & Co., Houtweg 11, Laren N.H., Netherlands.

AMELKO, Admiral Nikolay Nikolayevich; Soviet naval officer; b. 22 Nov. 1914, Leningrad; ed. Frunze Higher Naval School and Acad. of General Staff. Naval service 1933-; Commdr. of ships, Baltic Fleet 1937-41; Commdr. of ship formation 1941-46; Chief of Staff, Pacific Fleet 1956-62; Commdr. Pacific Fleet 1962-69; Deputy C.-in-C. of U.S.S.R. Navy 1969-; mem. CPSU 1944-, Cand. mem. Central Cttee. of CPSU 1966-71; Deputy to U.S.S.R. Supreme Soviet 1966-; Order of Lenin (three times), Order of Red Flag (twice) and other decorations. *Address:* U.S.S.R. Ministry of Defence, 34 Naberezhnaya M. Thoreza, Moscow, U.S.S.R.

AMERASINGHE, Hamilton Shirley; Ceylonese diplomatist; b. 18 March 1913, Colombo; ed. Royal Coll., Colombo and Ceylon Univ. Coll. Ceylon Civil Service 1937; Sec. to Minister of Health, Ceylon 1941-46; Resident Man., Gal Oya Devt. Bd. 1950-52; Counsellor, Washington 1953-55; Controller of Establishments, General Treasury, Ceylon 1955-57; Alt. Del. Ceylon Del. to UN 1957; Controller of Supply, Cadre and Finance, General Treasury, Ceylon 1958; Perm. Sec. to Ministry of Nationalised Services and Chair. Port (Cargo) Corpn., Colombo 1958; Sec. to Treasury and Perm. Sec. Ministry of Finance 1961-63; Dir. Bank of Ceylon 1962-63; High Commr. of Ceylon in India 1963-67; Perm. Rep. of Sri Lanka to UN 1967-78, Pres. UN Gen. Ass. 1976-77; Chair. UN Cttee. on Peaceful Uses of Sea Bed and Ocean Floor Beyond Limits of Nat. Jurisdiction, Special Cttee. to Investigate Israeli Practices affecting the Human Rights of the Population of the Occupied Territories, UN *ad hoc* Cttee. on the Indian Ocean; Pres. Third UN Law of the Sea Conf. 1973-. *Leisure interests:* classical music, photography, tennis and riding. *Address:* Office of the President of the Third United Nations Conference on the Law of the Sea, United Nations, New York, N.Y. 10017 (Office); 10 Waterside Plaza, Apartment 10D, New York, N.Y. 10017, U.S.A. (Home). *Telephone:* 212-889-9346.

AMERY, Rt. Hon. Julian, M.P.; British politician; b. 27 March 1919; s. of the late Rt. Hon. Leopold Amery; m. Catherine, d. of Rt. Hon. Harold Macmillan (*q.v.*), 1950; one s. three d.; ed. Eton and Oxford Univ. War Corresp., Spanish Civil War 1938-39; Attaché H.M. Legation, Belgrade, and on special missions 1939-40; Sgt. R.A.F. 1940-41; commissioned and transferred to Army; active service, Egypt, Palestine, Adriatic 1941-42; liaison officer to Albanian Resistance 1944; on the staff of Sir Winston Churchill's personal mission to Generalissimo Chiang Kai-shek 1945; M.P. 1950-66, 1969-; Under-Sec. of State for War 1957-58, for Colonies 1958-60; Sec. of State for Air 1960-62; Minister for Aviation 1962-64; Minister of Public Building and Works June-Oct. 1970; Minister for Housing and Construction 1970-72; Minister of State, Foreign and Commonwealth Office 1972-74; Conservative. *Publications:* Sons of the Eagle, The Life of Joseph Chamberlain, Joseph Chamberlain and the Tariff Reform Campaign 1969, Autobiography 1970, Approach March 1973. *Leisure interests:* skiing, travel. *Address:* 112 Eaton Square, London, S.W.1, England. *Telephone:* 01-235 1534.

AMES, Bruce Nathan, PH.D.; American professor of biochemistry; b. 16 Dec. 1928, New York; s. of Dr. M. U. and Dorothy Andres Ames; m. Dr. Giovanna Ferro-Luzzi 1960; two c.; ed. Cornell Univ. and California Inst. of Tech. Postdoctoral Fellow, Nat. Insts. of Health 1953-54, Biochemist 1954-60; Nat. Science Foundation Fellow, Labs. of F. C. Crick, Cambridge and F. Jacob, Paris 1961; Chief Section of Microbial Genetics, Lab. of Molecular Biology, Nat. Insts. of Health 1962-67; Prof. of Biochemistry, Univ. of Calif., Berkeley 1968-; mem. Nat. Cancer Advisory Bd., N.A.S., American Acad. of Arts and Sciences; Eli Lilly Award, American Chem. Soc. 1964; Arthur Flemming Award 1966, Rosentiel Award 1976, Fed. of American Socs. for Experimental Biology Award 1976, Wankel Award 1978. *Publications:* scientific papers in areas of operons, biochemical genetics, histidine biosynthesis, mutagenesis, detection of environmental carcinogens and mutagens. *Address:* University of California, Department of Biochemistry, Berkeley, Calif. 94720 (Office); 1324 Spruce Street, Berkeley, Calif. 94709, U.S.A. (Home). *Telephone:* (415) 642-5165 (Office).

AMIAMA TIÓ, Fernando Arturo; Dominican politician, lawyer and university professor; b. 1 May 1913, San Pedro de Macorís; s. of late Luis Amiama and of Carmen Tió Amiama; m. Lucila Troncoso de Amiama; three d.; ed. elementary and secondary school. Amb. in charge of Cultural Dept.; Prof. of American Int. Law, Univ. de Santo Domingo 1960; Acting Sec. of State 1962; Amb. in charge of Admin., Dept. of Foreign Affairs, in charge of Legal Dept. 1962; Prof. Univ. Pedro Henríquez Ureña 1966; Amb. in charge of UN, OAS, Int. Confs. Dept., Ministry of Foreign Affairs 1966; Sec. of State for Foreign Affairs 1967-70; Perm. Rep. to UN 1970-72; Sec. of State without Portfolio 1972; Sec. of State for the Interior and Police 1974-75, for Labour 1975-; decorations from Dominican Repub., Lebanon, China, Nicaragua (two), El Salvador, Chile, Mexico, Venezuela and Spain. *Publications:* Las Funciones Consulares (2 vols.) 1957, El Centrismo Político (essay) 1964, Acuerdos Administrativos O Ejecutivos (series of articles). *Address:* Secretaría de Estado de Trabajo, Santo Domingo; and Avenida Francia 127, Santo Domingo, D.N., Dominican Republic. *Telephone:* 9-0837.

AMIES, (Edwin) Hardy, C.V.O.; British couturier; b. 17 July 1909; ed. Brentwood School. Trainee, W. & T. Avery, Birmingham 1930-34; Man. Designer Lachasse, Farm Street, London, W.1 1934-39; Intelligence Corps 1939-45; Man. Dir. Hardy Amies Ltd. 1946-; opened Hardy Amies Boutique Ltd. 1950; Dressmaker to the Queen 1955-; Design Consultant to Alexandra Overalls Ltd., Cambridge Clothing Co. Ltd. (New Zealand), Coppley Noyes & Randall Ltd. (Canada), Daito Woollen Spinning & Weaving Co. Ltd. (Japan), Hepworths Ltd., T. Lipson & Sons Ltd. (Canada), Michelsons Ltd., The Park Lane Neckwear Co. (Canada), B. Smuts Kennedy Ltd. (New Zealand), Star Hat Co. Ltd. (New Zealand), Phoenix Clothes (U.S.A.), Enro Shirt Co. (U.S.A.), and numerous other companies; Chair. Inc. Soc. of London Fashion Designers 1959-60; Officier de l'Ordre de la Couronne (Belgium) 1946; Royal Designer for Industry 1964; numerous design awards. *Publications:* Just So Far 1954, ABC of Men's Fashions 1964. *Address:* Hardy amies Ltd., 14 Savile Row, London, W.1, England. *Telephone:* 01-734 2436.

AMIN, Hafizullah, B.S., M.A.; Afghani politician; b. 1 Aug. 1929, Paghman, Kabul; ed. Teachers' Training High School, Kabul, Kabul Univ., Columbia Univ., New York, U.S.A. Vice-Principal, Teachers' Coll., Kabul; Principal, Ibne-Sina School; Lecturer, Faculty of Educ., Kabul Univ., mem. of Teachers' Training Dept.; teacher at Rabea-Balkhi Lycée, Kabul; mem. Primary Educ. Dept., Ministry of Educ.; mem. of Parl.; Deputy Prime Minister 1978-79, Minister of Foreign Affairs April 1978-, Prime Minister March 1979-; Sec. Democratic People's Party 1978-. *Address:* Ministry of Foreign Affairs, Kabul, Afghanistan.

AMIN, Mahmoud, PH.D.; Egyptian petroleum geologist; b. 30 April 1920, Cairo; m. 1945; two s. one d.; ed. Cairo and London Univs. Deputy Gen. Man. of Exploration and Production, Egyptian Petroleum Corpn. 1958-68; Chair. Western Desert Petroleum Corpn. 1968-75; Asst. Sec.-Gen. OAPEC 1975-. *Publications:* Economics of Petroleum Resources, about 25 scientific papers on geology and petroleum, about 100 articles on petroleum. *Address:* Organization of Arab Petroleum Exporting Countries, P.O. Box 20501, Kuwait City, Kuwait. *Telephone:* 448200, 426885.

AMIN, Mostafa, M.A.; Egyptian journalist; b. 21 Feb. 1914, Cairo; s. of Mohamed Amin Youssef and Ratibah Zagloul; ed. American Univ. of Cairo and Georgetown Univ., U.S.A.; began his career publishing and writing for magazines, incl. El Raghaeb, Rose el Youssef 1928; Deputy Chief Editor Akher Saa weekly magazine 1934, Editor-in-Chief 1938; City Editor Al Ahram daily 1939-44, Diplomatic Editor 1940; Editor-in-Chief Al Isnain weekly 1941-44; founder Akhbar el Yom weekly newspaper and publishing house, jointly with his brother Ali Amin 1944; mem. House of Reps. 1944; purchased Akher Saa weekly magazine 1946; founded Akher Lahza, El Guil 1951, weekly magazines; arrested 26 times for editorial policies during 1951; founded Al-Akhbar daily 1952; published Al Mokhtar for Reader's Digest 1956-67; Vice-Chair. Press Board 1960, dismissed by Pres. Gamal Abdul Nasser 1960; Chair of Bd., Dar al Hilal Publishers 1961; Chair. of Bd., Akhbar el Yom Publishers 1962-64, Editorial Man. 1964-65; arrested 1965, sentenced to life imprisonment 1966, reprieved by Pres. Anwar Sadat 1974; Editor-in-Chief Akhbar el Yom 1974-76, staff writer 1976-. *Publications:* Laughing America 1943, First Year in Prison. *Address:* Sar Akhbar el Yom, 6 Sharia al-Safaha, Cairo, Egypt.

AMIN, Samir, D.ECON.; Egyptian economist; b. 4 Sept. 1931, Cairo; s. of Farid and Odette Amin; m. Isabelle Eynard 1957; no c.; ed. Univ. of Paris. Sr. Economist, Econ. Devt. Org., Cairo 1957-60; Tech. Adviser for Planning to Govt. of Mali 1960-63; Prof. of Econs., Univs. of Poiters, Paris and Dakar; Dir. UN African Inst. for Econ. Devt. and Planning 1970-. *Publications:* Trois expériences africaines de développement, Mali, Guinée, Ghana 1965, L'économie du Maghreb (2 vols.) 1967, Le développement du capitalisme en Côte d'Ivoire 1968, Le monde des affaires sénégalaises 1968, Maghreb in the Modern World 1970, L'accumulation à l'échelle mondiale 1970, L'Afrique de l'ouest bloquée 1971, Le développement inégal 1973. *Leisure interest:* history. *Address:* African Institute for Economic Development and Planning, B.P. 3186, Dakar, Senegal. *Telephone:* 225-77.

AMIN DADA, Field-Marshal Idi; Ugandan army officer and fmr. Head of State; b. 1925, Kakwa Region, West Nile; s. of late Amin Dada. Joined King's African Rifles 1946; rank of Corporal 1949, Major 1963, Col. 1964; Deputy Commdr. of the Army 1964; Commdr. of the Army and Air Force 1966-70; rank of Brig.-Gen. 1967, Maj.-Gen. 1968, promoted Field-Marshal July 1975; leader of mil. *coup d'état* which deposed Pres. Milton Obote Jan. 1971; Pres. and Chief of Armed Forces 1971-79 (Life Pres. 1976-79 overthrown in Tanzanian invasion); Minister of Defence 1971-75; Chair. Defence Council 1972-79; Minister of Internal Affairs 1973, of Information and Broadcasting 1973, of Foreign Affairs Nov. 1974-Jan. 1975, of Health 1977-79, of Foreign Affairs 1978, of Information, Broadcasting and Tourism, Game and Wildlife 1978-79, of Internal Affairs 1978-79; Chief of Staff of the Army 1974-79; Chair. OAU Ass. of Heads of State 1975-76, presided over Kampala Summit 1975, Addis Ababa Summit 1976; Heavyweight Boxing Champion of Uganda 1951-60; awarded eight highest mil. decorations of Uganda; Hon. LL.D. (Kampala) 1976.

AMINI, Ali, D.ECON. ET IUR; Iranian politician; b. 1905, Teheran; s. of Mohsen and Achraf Amini; m. Baloul Voosough 1932; one s.; ed. Ecole de Droit, Grenoble, and Faculté de Droit, Paris, France. Alternate Judge, Court of First Instance, and Penal Branch, Court of Appeal, Teheran 1931; Dir.-Gen. Dept. of Customs and Monopolies 1933, Econ. Section, Ministry of Finance 1939; Asst. Prime Minister 1940; Dir. Foreign Exchange Comm.; Deputy, 15th Legislative Session of the Majlis; Head of Narcotics Del. to Geneva and U.S.A.; Minister of Nat. Economy; Head of Iranian Trade Del. to Germany and France; Minister of Econ. 1952; Minister of Finance 1953, of Justice 1955; Amb. to U.S.A. 1956-58; Leader of Independents in general election 1960; Prime Minister 1961-July 1962. *Publication:* L'institution du monopole de commerce extérieur en Perse. *Address:* Park Aminodoleh, Avenue Ebnecina, Teheran, Iran. *Telephone:* 39-32-32.

AMIRMACHMOED, Lieut.-Gen.; Indonesian army officer and politician; b. 21 Feb. 1923, Cimahi, West Java; ed. Technical School, Army Staff Coll. (SSKAD). Several army posts 1943-65, including Deputy Chief of Staff Dwikora Command i 1961, Commdr. Mil. Territory X, Lambung Mangkurat, S. Kalimantan 1962-65, Commdr. Mil. Territory V/Djaja 1965; promoted to rank of Lieut.-Col. 1957, Col. 61, Brig.-Gen. 1964, Maj.-Gen. 1966, Lieut.-Gen. 1970; Minister of Home Affairs, Pembangunan (Devt.) Cabinet 1969; Chair. of govt. body for the implementation of Act of Free Choice in W. Irian (now Irian Jaya) according to New York Agreement on Irian Jaya 1969; implemented gen. elections 1971; Minister of Home Affairs, 2nd Pembangunan Cabinet 1973-. *Address:* Department of Home Affairs, Jalan Veteran, Jakarta, Indonesia.

AMIRTHALINGAM, Appapillai, B.A.; Ceylonese (Tamil) lawyer and politician; b. 26 Aug. 1927, Jaffna; s. of S. Appapillai and A. Valliammai; m. Mangayakarasi Vallipuram 1954; two s.; ed. Univ. of Ceylon, Ceylon Law Coll; called to the bar 1952; mem. House of Reps. 1956-70, Nat. State Ass. July 1977-; in political detention 1958, 1959, 1961, 1976; founder mem. Ilankai Tamil Arasu Kadchi (Ceylon Fed. Party) 1949, Gen. Sec. 1964-72, Pres. 1973-; Sec.-Gen. Tamil United Liberation Front 1973-; Leader of Opposition July 1977-. *Publications:* (in Tamil) Our Objective 1954, Lessons of Bangladesh 1972, Racial Segregation in Ceylon 1973. *Address:* Moolai, Chulipuram; and Sravasti, Colombo, Sri Lanka. *Telephone:* Vaddukoddai 235 (Chulipuram); 91078 (Colombo).

AMIS, Kingsley, M.A.; British author; b. 16 April 1922, London; s. of William Robert and Rosa Annie (née Lucas) Amis; m. 1st Hilary A. Bardwell 1948, two s. one d.; m. 2nd Elizabeth Jane Howard 1965; ed. City of London School and St. John's Coll., Oxford. Lecturer in English, Univ. Coll. of Swansea 1949-61; Fellow of Peterhouse, Cambridge 1961-63; Visiting Fellow in Creative Writing, Princeton Univ. 1958-59; Visiting Prof. of English Vanderbilt Univ. 1967-68; Somerset Maugham Award, John W. Campbell Memorial Award. *Publications:* A Frame of Mind 1953, Lucky Jim 1954, That Uncertain Feeling 1955, A Case of Samples 1956, I Like it Here 1958, New Maps of Hell 1960, Take a Girl Like You 1960, My Enemy's Enemy 1962, One Fat Englishman 1963, The James Bond Dossier 1965, The Egyptologists (with Robert Conquest) 1965, The Anti-Death League 1966, A Look Around the Estate (poems 1957-1967) 1967, Colonel Sun 1968 (as Robert Markham), I Want it Now 1968, The Green Man 1969, What Became of Jane Austen? 1970, Girl, 20 1971, On Drink 1972, The Riverside Villas Murder 1973, Ending Up 1974, Kipling and His World 1975, The Alteration 1976; edited New Oxford Book of Light Verse 1978, Faber Popular Reciter 1978, Jake's Thing 1978, Collected Poems 1944-1979 1979. *Leisure interests:* classical music, thrillers, television. *Address:* Jonathan Clowes and Co., 19 Jeffrey's Place, London, N.W.1, England

AMISSAH, John Kodwo, J.C.D., D.D., LL.D.; Ghanaian Roman Catholic ecclesiastic; b. 27 Nov. 1922, Elmina; ed. St. Peter's School, Kumasi, St. Teresa's Seminary at Amisano, St Augustine's Coll., Pontifical Urban Univ., Rome; ordained as priest Dec. 1949; taught at St. Teresa's Minor and Major Seminary 1950-51 and 1954-57; consecrated Auxiliary Bishop June 1957; Archbishop of Cape Coast and Metropolitan of Ghana Dec. 1959-70; Chair. first Pan-African Symposium of Catholic Episcopal Confs., Kampala 1969; Chair. Gen. Assemblies 1st, 2nd and 3rd Symposiums of Episcopal Confs. of Africa and Madagascar (SECAM) 1969-72; Chair. univ. Coll. of Cape Coast 1969; mem. Council of State 1969-72; awarded Grand Medal. *Address:* c/o Archbishop's House, P.O. Box 112, Cape Coast, Ghana.

AMIT, Maj.-Gen. Meir, M.B.A.; Israeli business executive and politician; b. 17 March 1921, Tiberias; s. of Simon and Chaya Slutsky; m. Yona Kelman 1941; three d.; ed. Columbia Univ., New York; mem. Kibbutz Alonim 1939; served in Israeli Defence Forces 1948-68, fmr. Head of Mil. Intelligence and Head of Israeli Security Service; Pres. Koor Industries 1968-77; Minister of Transport and Communication 1977; mem. of Knesset 1978-. *Leisure interests:* photography, collecting toys and educational games. *Address:* The Knesset, Jerusalem, Israel.

AMMASH, Maj.-Gen. Saleh Mahdi; Iraqi soldier and politician; ed. Military Coll. Minister of Defence Feb.-Nov. 1963; C.-in-C. Supreme Defence Council of Iraq and Syria Oct.-Nov. 1963; Minister of Foreign Affairs Nov. 1963; mem. Revolutionary Command Council, Deputy Prime Minister and Minister of the Interior 1968-70; Vice-Pres. 1970-71; Amb. to U.S.S.R. 1971-74, to France 1974. *Address:* c/o Ministry of Foreign Affairs, Baghdad, Iraq.

AMORY, 1st Viscount, cr. 1960, of Tiverton in the County of Devon; **Derick Heathcoat Amory,** K.G., P.C., G.C.M.G.; British politician and public official; b. 26 Dec. 1899, London; s. of Sir Ian Heathcoat Amory, Bt., C.B.E.; ed. Eton Coll. and Christ Church, Oxford. Served 1939-45 war; Conservative M.P. for Tiverton Div. Devon 1945-60; Minister of Pensions 1951-53; Minister of State, Bd. of Trade 1953-54; Minister of Agriculture and Fisheries July 1954; Minister of Agriculture, Fisheries and Food Oct. 1954-Jan. 1958; Chancellor of the Exchequer 1958-60; Chair. Medical Research Council 1960-61, 1965-69; High Commr. for U.K. in Canada 1961-63; Dir. Lloyds Bank 1960-70, ICI Ltd. 1960-61, 1963-70; Deputy Gov. Hudson's Bay Co. 1964-65, Gov. 1965-70, Dir. 1964-71; Chair. John Heathcoat and Co. 1966-72; Chancellor, Exeter Univ. 1972-; Hon. LL.D. (Exeter, McGill, Mount Allison and Bishop's), Hon. D.C.L. (Oxford) 1974. *Address:* 150 Marsham Court, Marsham Street, London, S.W.1, England. *Telephone:* 01-828 8378.

AMOUZEGAR, Jamshid, B.C.E., M.S., PH.D.; Iranian politician; b. 25 June 1923; s. of Turan and Habibollah Amouzegar; m. Ulrike Amouzegar 1951; ed. Univs. of Teheran, Cornell, Washington. UN Expert, Mission to Iran 1951; Chief, Eng. Dept 1952-55; Deputy Minister of Health 1955-58; Minister of Labour 1958-59, of Agriculture 1959-60; Consulting Eng. 1960-64; Chair. Int. Civil Service Advisory Bd. of UN 1962-67; Minister of Health 1964-65, of Finance 1965-74, of Interior and Employment 1974-76; Minister of State 1976-77; Sec.-Gen. Rastakhiz Party 1976-77, Jan.-Aug. 1978; Prime Minister of Iran 1977-78; fmr. Chief Oil Negotiator to Shah; First Order of the Taj. *Leisure interests:* listening to music, reading poetry. *Address:* Teheran, Iran.

AMOYAL, Pierre Alain Wilfred; French violinist; b. 22 June 1949, Paris; s. of Dr. Wilfred and Vera (Popravka) Amoyal; m. Susan Ilene Moses 1973; one s.; ed. Cours d'Etat, Vanves, Conservatoire National Supérieur de Musique, Paris, Univ. of Southern California, U.S.A. (studied with Jascha Heifetz, *q.v.*); invited by Sir Georg Solti to perform Berg's violin concerto with Orchestre de Paris 1971; invited by Pierre Boulez to perform Schoenberg's Concerto with Orchestre de Paris 1977; Prof. of Violin, Conservatoire National Supérieur de Musique, Paris 1977; numerous performances throughout world with orchestras including Royal Philharmonic, New Philarmonia, l'Orchestre National de France, Residentie-Orkest, The Hague; First Prize, Conservatoire de Versailles 1960, Conservatoire National Supérieur de Musique, Paris 1962, for chamber music, Conservatoire National Supérieur de Musique; Prix Ginette Neveu; Prix Paganini; Prix Enesco 1970; Grand Prix du Disque 1973, 1977. *Numerous recordings including:* Symphonie espagnole (Lalo); Violin Concerto (Mendelssohn); Concertos Nos. 1 and 2 and 2 Sonatas (Prokofiev); Tartini's concertos; Third Concerto, Havanaise, and Rondo capriccioso (Saint-Saëns); Concerto No. 1 (Bruch); Concerto (Glazunov). *Leisure interests:* photography, motor cars, tennis. *Address:* 21 rue des Hortensias, 91540 Mennecy, France. *Telephone:* 499-7798.

AMRITANAND, Rt. Rev. Joseph; Indian ecclesiastic; b. 17 Feb. 1917; ed. Forman Christian Coll., Lahore and Bishop's Coll. Ordained Deacon 1941, Priest 1943; Bishop of Assam 1949-62; Bishop of Lucknow 1962-70; Bishop of Calcutta 1970-, also of Durgapur 1972-74. *Address:* Bishop's House, 51 Chowringhee Road, Calcutta 700071, India.

AMSTERDAM, Gustave G.; American financier; b. 25 Aug. 1908, Philadelphia; s. of Benjamin Amsterdam and Anna Feld; m. Valla Abel 1933; one s.; ed. Univ. of Pennsylvania. Vice-Pres. Albert M. Greenfield & Co. 1938-56; Vice-Pres. Bankers' Securities Corpn. 1946-51, Exec. Vice-Pres. 1951-55, Pres. 1955-70, Chair. 1959-; Chair. City Stores Co., Diversified Stores Co. Inc.; Pres. Benjamin Franklin Hotel Corpn., Albert M. Greenfield Foundation; Vice-Pres. Bankers' Realty Corpn., Lit Bros. Foundation; mem. of bd. of numerous other cos.; Trustee, Univ. of Pa. *Address:* 1401 Walnut Street, Philadelphia, Pa. 19102 (Office). 5209 Woodbine Avenue, Philadelphia, Pa. 19131, U.S.A. (Home).

AMUZEGAR, Jahangir, PH.D.; Iranian economist and politician; b. 13 Jan. 1920, Teheran; s. of Habibollah Amuzegar and Turan Azemudeh; m. Eleanor R. Horn 1958; ed. Univs. of Teheran, Washington and California. Teaching Asst., Univ. of Calif., Los Angeles 1951-53; Lecturer, Whittier Coll. 1953, Univ. of Mich. 1953-55; Asst. Prof. Pomona Coll., Claremount, Calif. 1955-56; Asst. Prof. Mich. State Univ., E. Lansing, Mich. 1956-58; Assoc. Prof. Occidental Coll. and Univ. of Calif., Los Angeles 1958-60; Brookings Research Prof. 1960-61; Lecturer, Univ. of Maryland 1963-73; Distinguished Adjunct Prof., American Univ., Washington 1975-; Econ. Adviser, Plan Org., Govt. of Iran 1956-57; Minister of Commerce, Iran 1961-62; mem. Council of Money and Credit 1961-62, High Econ. Council 1961-62; mem. Bd. of Dirs. Bank Melli Iran 1961-62; Chair Bd. Iran Foreign Trade Co. (Iranian Govt. Org.) 1961-62; Minister of Finance 1962; Chair. High Council of Nat. Iranian Oil Co. 1962; Chief of Iranian Econ. Mission, Washington, D.C. 1963-76; Exec. Dir. Int. Monetary Fund 1973-78; Amb.-at-Large 1963-78; Perm Rep to IMF 1976-78, alt. Gov. 1962. *Publications:* Technical Assistance in Theory and Practice: The Case of Iran 1966, Iran: Economic Development under Dualistic Conditions 1971, Energy Policies of the World: Iran 1975, Iran: An Economic Profile 1977; numerous articles in professional journals in U.S., Europe and Asia.

AN P'ING-SHENG; Chinese politician. Provincial Cadre in Kwangtung 1955, Vice-Gov. Kwangtung 1956-61; Sec. Kwangsi CCP Cttee. 1961-67, 1971-75, First Sec. 1975-77; Vice-Chair. Kwangsi Revolutionary Cttee. 1968-75, Chair. 1975-77; Chair. Yunnan Rev. Cttee. 1977-, First Sec. Yunnan CCP Cttee. 1977-; First Political Commissar Kunming Mil. Region 1977-; mem. 10th Cen. Cttee. 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

ANAND, Bal Krishan, M.B., B.S., M.D.; Indian physiologist; b. 19 Sept. 1917, Lahore; s. of V. D. Anand and Saraswati Anand; m. Kamla Puri 1942; one s. two d.; ed. Government Coll. and K.E. Medical Coll., Lahore. Prof. of Physiology, Lady Hardinge Medical Coll., New Delhi 1949-57, All India Inst. of Medical Sciences, New Delhi 1957-74, Prof. Emer. 1977; Pres. XXVI Int. Congress of Physiological Sciences, New Delhi 1974; Asst. Dir. WHO. (S.E. Asia) 1974-77; Vice-Chancellor, Banaras Hindu Univ., Varanasi 1978; Rockefeller Foundation Fellow at Yale Univ. School of Medicine 1950-51; Fellow Indian Acad. of Medical Sciences, Nat. Inst. of Sciences (F.N.I.); Indian Council of Medical Research Sr. Research Award 1962; Watumull Foundation Award in Medicine 1961; Sir Shanti Swaroof Bhatnagar Memorial Award for Scientific Research in Medicine 1963; Padma Shri 1969; Medical Council of India Silver Jubilee Research Award 1969. *Leisure interests:* literature, photography, tennis, hiking. *Address:* Office of the Vice-Chancellor, Banaras Hindu University, Varanasi, India. *Telephone:* 63138 (Office); Varanasi 62339, New Delhi 672949 (Home).

ANAND, Mulk Raj, PH.D.; Indian writer and critic; b. 12 Dec. 1905, Peshawar; s. of Lalchand Anand and Ishwar Kaur; m. 1st Kathleen van Gelder 1939 (divorced 1948), 2nd Shirin Vajifdar 1950; one d.; ed. Punjab and London Univs.; active in Nationalist and Gandhi movements; lecturer, London County Council; BBC broadcaster, film script writer, British Ministry of Infomation; edited (1956) various magazines; Leverhulme Fellow for Research in Hindustani literature; Editor Marg magazine, India; mem. Indian Nat. Acad. of Letters; fmr. Tagore Prof. of Art and Literature, Punjab Univ., Chandigarh; fmr. Chair. Nat. Acad. of Art, New Delhi; Padma Bhushan 1967. *Publications:* Novels: Morning Face, Private Life of an Indian Prince, The Big Heart, The Sword and the Sickle, Across the Black Waters, Untouchable, Coolie, The Barbers' Trade Union, Seven Summers, etc.; Essays: Apology for Heroism, Lines Written to an Indian Air, etc. *Leisure interests:* gardening, walking, travel. *Address:* Jassim House, 25 Cuffe Parade, Bombay 400005; c/o Marg Publications, Army Navy Building, Mahatma Gandhi Road, Bombay 1; Lokayata, Hauz Khas Village, New Delhi 16, India. *Telephone:* Bombay 211371 (Jassim House); Bombay 252576 (Marg Publs.).

ANANIAN, Vakhtang Stepanovich; Soviet writer; b. 8 Aug. 1905, Shamakhyan, Armenia. Corresp. and later Editor Matchkal; full-time writing 1945-; mem. CPSU 1928-; two Orders of Red Banner of Labour, Badge of Honour. *Publications include:* The Fiery Ring 1930, On the Field of Battle 1946, After the War 1947, A Chrestomathy of Hunters Stories (8 vols.) 1948-77, At the Shore of Lake Sevan 1950, Steep Paths 1955, The Childhood in Mountains 1954, The Prisoners of Leopard's Valley 1956, Animal World of Armenia Vol. I 1961, II 1962, III 1965, IV 1967, V 1975, Fatherland Mountains 1963, Complete Works (6 vols.) 1968-71. *Address:* Erevan 15, Paronian Street I, Floor 12, Armenian S.S.R., U.S.S.R.

ANCLAM, Kurt; German politician; b. 7 May 1918, Kowanz; m.; one c.; ed. elementary school; baker's apprentice, rising to master baker 1932-51; mem. Schwerin Liberal Democratic Party Council 1949-54; mem. Central Cttee. 1967-, mem. Political Sub-Cttee. of Central Cttee. 1967-; correspondence course at ASR Potsdam-Babelsberg—qualified as lawyer 1953-59; Personal Adviser to Deputy Chair. of Council of Ministers 1957-66; Chair. Halle District Assen. of Liberal Democratic Party 1966-; Deputy to People's Chamber 1954-63 and 1967-; Deputy Chair. sub-cttee. supervising elections 1967-71, mem. Council of State 1971-; Vaterländischer Verdienstorden (Gold) and other decorations. *Address:* Staatsrat, 102 Berlin den Marx-Engels-Platz, German Democratic Republic.

ANDERHEGGEN, Erwin; German business executive; b. 23 Jan. 1909, Cologne; s. of Ernst and Eugenie (née Eschen) Anderheggen; m. Gerda Klinger 1962; ed. Univ. of Freiburg and Technische Hochschule, Berlin; engaged in copper and nickel mining in Iran 1937; joined Steinkohlenbergwerk Friedrich Heinrich AG, Kamp-Lintfort 1939, mem. Exec. Bd. 1951, Chair. Exec. Bd. 1957; mem. Exec. Bd. Bergbau AG, Niederrhein AG 1969-72; Chair. Exec. Bd. Saarbergwerke AG 1972-76; Chair. Int. Cttee. for Coal Research 1973-; Dr. Ing. e.h. *Publications:* articles in journals. *Leisure interests:* research and development, music. *Address:* 6600 Saarbrücken, Stengelstrasse 1, Postfach 1030, Federal Republic of Germany. *Telephone:* (0681) 405 3890; 617 33, 537 96.

ANDERS, William Alison, M.SC.; American government official and fmr. astronaut; b. 17 Oct. 1933, Hong Kong; s. of Commdr. and Mrs. Arthur F. Anders; m. Valerie Hoard; four s. one d.; ed. U.S. Naval Acad. and Air Force Inst. of Tech., Wright-Patterson Air Force Base, Ohio. Commissioned in the Air Force and received flight training; fighter pilot, Air Defense Command; nuclear eng.

and instructor pilot, Air Force Weapons Lab., Kirtland Air Force Base, New Mexico; selected as astronaut by NASA 1963; backup pilot for the Gemini XI mission 1966; lunar module pilot for the maiden voyage to the moon on Apollo VIII Dec. 1968; backup command module pilot on Apollo XI mission 1969; Exec. Sec. Nat. Aeronautics and Space Council 1969-73; Commr. Atomic Energy Comm. 1973-74; Chair. Nuclear Regulatory Comm. 1974-76. *Address:* Federal Energy Administration, Washington, D.C., U.S.A.

ANDERSCH, Alfred; German writer; b. 4 Feb. 1914; m. Gisela Dichgans 1950; two s. one d.; ed. Wittelsbacher Gymnasium, Munich; spent six months in Dachau Concentration Camp as Communist Youth Leader 1933; fmr. industrial worker; Editor of newspapers after Second World War (Der Ruf, Texte und Zeichen, Studio Frankfurt); now freelance writer; mem. Group 1947, Akad. der Schönen Künste, München Deutsche Akad. für Sprache und Dichtung; Deutscher Kritiker-Preis 1958; Nelly Sachs-Preis 1968; Prix Charles Veillon 1968; Literaturpreis der Bayerischen Akad. der Schönen Künste 1975. *Publications:* Deutsche Literatur in der Entscheidung (essays) 1948, Europäische Avantgarde (anthology) 1948, Die Kirschen der Freiheit (autobiog.) 1952, Sansibar oder der letzte Grund (novel) 1957, San Gaetano (narrative) 1957, Geister und Leute (stories) 1958, Die Rote (novel) 1960, Wanderungen im Norden 1962, Ein Liebhaber des Halbschattens (stories) 1963, Aus einem römischen Winter 1966, Efraim (novel) 1967, Hohe Breitengrade 1969, Mein Verschwinden in Providence (stories) 1971, Norden Süden rechts und links (essays) 1972, Winterspelt (novel) 1974, Oeffentlicher Brief an einen sowjetischen, das Veberholte betreffend 1977, Einige Zeichnungen 1977, Empört euch der Himmel ist blau, Gedichte und Nachdichtungen 1977. For radio: Strahlende Melancholie 1953, Die Bürde des weissen Mannes, Brennpunkt Indo-china 1953, Die Feuerinsel oder Die Heimkehr des Kapitän Tizzoni 1955, Fahrerflucht 1958, Synnöves Halsband 1958, Aktion ohne Fahnen (adapted from Sansibar oder der letzte Grund) 1958, Der Tod des James Dean 1960, Der Albino 1960, Von Ratten und Evangelisten 1960, In der Nacht der Giraffe 1960, Biologie und Tennis (with H. Krapp) 1958, Russisches Roulette 1961. *Address:* CH-6611 Berzona (Valle Onsernone), Ticino, Switzerland; and HCH-8700 Küsnacht, Schüracherstrasse 8, Switzerland. *Telephone:* Locarno (Berzona) 85-12-33; 01/910 94 21.

ANDERSEN, Hans George, LL.M.; Icelandic diplomatist; b. 1919, Winnipeg, Canada; s. of F. A. Andersen, C.P.A. and Thora Andersen; m. Astridur Helgadóttir 1945; one s. one d.; ed. Univ. of Iceland and Harvard Univ. Legal Adviser, Ministry of Foreign Affairs, Lecturer, Univ. of Iceland 1948-54; Amb. to NATO 1954-62, to OEEC 1956-62, to France 1961-62, to Sweden 1962-63, to Norway 1963-69; Legal Adviser, Ministry for Foreign Affairs 1969-; Amb. to U.S.A. 1976-; Chair. Icelandic del. to Third UN Conf. on the Law of the Sea; Commdr. of the Order of the Falcon (with Star); Grand Cross St. Olav (Norway), Grand Cross, Order of Merit (Italy). *Leisure interests:* reading, swimming. *Address:* Embassy of Iceland, 2443 Kalorama Road, N.W., Washington, D.C., U.S.A. *Telephone:* 332-3040.

ANDERSEN, Knud Børge, M.ECON.; Danish politician; b. 1 Dec. 1914, Copenhagen; s. of A. Chr. Andersen, and Karen Andersen; m. Grethe Trock 1943; four s. Danmarks Radio 1940-50; Teacher, Krogerup Folk High School 1946-50; Headmaster, Workers' Folk High School, Roskilde 1950-57, Scandinavian Folk High School, Geneva 1953, 1958; Adviser, Prison Education Dept. 1957-64; mem. Danish Nat. Comm. for UNESCO 1949-70; mem. Folketing 1957-70, 1973-; Minister of Educ. 1964-68; mem. Nordic Council 1962-64, 1968-70, 1973-75 and 1978-; Gen. Sec. Social Democratic Party of Denmark 1970-71; Minister of Foreign Affairs 1971-73, 1975-78; Pres. of Folketing 1978-; mem. Rask Ørsted Foundation 1957-64; co-Editor Verdens Gang 1953-58; Social Democrat. *Publications:* Kamp og Fornyelse (with J. O. Krag, q.v.). *Leisure interests:* reading, theatre. *Address:* Urbansgade 2, 2100 Copenhagen Ø, Denmark. *Telephone:* (01) 383301.

ANDERSEN, Mogens; Danish painter; b. 8 Aug. 1916, Copenhagen; s. of late Einar F. T. Andersen and late Erna Ingeborg, née Andersen; m. Inger Therkildsen 1947; one s. one d.; ed. in Copenhagen under art master P. Rostrup Boyesen. Art teacher Copenhagen 1952-59, Académie de la Grande Chaumière, Paris 1963; mem. cttee. Danish Art Exhbn. Arrangement 1956-58; Pres. Danish State Art Foundation 1977; mem. Royal Acad. of Fine Arts 1956; Eckersberg Medal 1949, and other awards. *Exhibitions:* Copenhagen 1935-40, 1942-50, 1953-66, 1967; Paris 1950-74; *Private Exhbns.:* Copenhagen 1953, 1963, 1966, 1968, 1969, 1976 (retrospective), Alborg (Denmark) 1954, 1972, Lund (Sweden) 1959, Paris 1954, 1959, 1963, 1966, 1967, 1973, 1975, Warsaw 1973, Belgrade 1973, Zagreb; group exhbns. in Europe and the U.S.A.; Venice Biennale 1968; paintings hung in Modern Museum, Skopje 1965, Bridgestone Museum, Tokyo, Kunstmuseum, Malmø, and many other museums in Denmark, Sweden, Norway, Poland and U.S.A. *Major works:* Composition in Niels Bohr Inst., Copenhagen 1955, Mural, Central Library, Copenhagen 1958-59, Composition in Central Library, Århus 1964, October, State Art Museum 1964, Mural, Gentofte Town Hall 1971, Restaurante Copenhagen, Paris 1973, Handelsbanken, Copenhagen 1975. *Publications:* Moderne fransk malerkunst 1948, Omkring Kilderne 1967, Nødigt, Men Dog Gerne 1976, Ungdomsrejsen 1979. *Address:* Strandagervej 28, 2900 Hellerup, Copenhagen, Denmark. *Telephone:* (01) 620266.

ANDERSEN, Svend, M.POL.ECON.; Danish banker; b. 26 Sept. 1915, Copenhagen; s. of Christen Andersen and Paula Ingrid (née Nielsen); m. Alice Elkiaer Hansen 1942; three s.; ed. Københavns Universitet. Economist, Nat. Bank of Denmark 1940, Chief of Secr. 1950-61, Man. 1961-62, Deputy Gov. 1962-63, mem. Bd. of Govs. 1963-; Economist, Int. Bank for Reconstruction and Devt. (World Bank) 1946-50; mem. Bds., Deputy Chair. The Ship Credit Fund of Denmark 1963-, War Risk Insurance of Danish Ships of Copenhagen and Danish War Risk Cargo Insurance of Copenhagen 1963–, Nat. Econ. Soc. 1966-72; mem. Nordic Cttee. for Financial Matters 1966, Chair. 1966-74; mem. Lauritz Andersens Fund 1970, Monetary Cttee. of EEC 1973, Vice-Chair. 1976; Commdr.'s Cross (Denmark). *Leisure interest:* modern history. *Address:* Danmarks Nationalbank, Havnegade 5, DK 1093 Copenhagen K (Office); Esperance Allé 6A, DK 2920 Charlottenlund, Denmark (Home). *Telephone:* (01) 624007.

ANDERSON, Carl David, PH.D., SC.D., LL.D.; American physicist; b. 3 Sept. 1905; ed. California Inst. of Technology. Teaching Fellow in Physics 1927-30, Research Fellow 1930-33, Asst. Prof. of Physics 1933-37, Assoc. Prof. Calif. Inst. of Tech. 1937-39, Prof. 1939-; Chair. Div. of Physics, Mathematics and Astronomy 1962-; awarded gold medal of American Inst. 1935, Nobel Prize for Physics 1936, Elliott Cresson Medal of Franklin Inst. 1937; John Ericsson Medal of American Soc. of Swedish Engineers 1960; engaged in research on gamma rays and cosmic rays 1930-; mem. N.A.S., American Acad. of Arts and Sciences and American Philosophical Soc. *Address:* California Institute of Technology, Pasadena, Calif. 91109, U.S.A. *Telephone:* 213-795-6841.

ANDERSON, Charles Alfred, PH.D., D.SC.; American research geologist; b. 6 June 1902, Bloomington, Calif.; s. of Amel A. Anderson and Mary Lyman; m. Helen Argall 1927; one s.; ed. Pomona Coll. and Univ. of California (Berkeley). Instructor, Univ. of Calif. 1928-30, Asst. Prof. 1930-38, Assoc. Prof. 1938-42; U.S. Geological Survey, Washington, D.C. 1942-72, Chief of Mineral Deposits Branch 1953-58, Chief Geologist 1959-64, Research Geologist 1964-72, retd.; Pres. Soc. Econ. Geologists 1968; mem. N.A.S., American Acad. of Arts and Sciences; Fellow, Geological Soc. of America, Mineral Soc. of America, American Geophysical Union; Distinguished Service Award 1960, Penrose Medal, Soc. of Econ. Geologists 1974. *Publications:* Tuscan Formation of Northern California 1933, Volcanoes of Medicine Lake Highland, California 1941, Reconnaissance Survey of Roberts Mountains, Nevada 1942, Geology of Islands and Neighbouring Land Areas, Gulf of California 1950, Geology and Ore Deposits of Jerome Area, Arizona 1958, Massive Sulfide Deposits and Volcanism 1969. *Leisure interests:* bird watching, photography. *Address:* 209 Northrop Place, Santa Cruz, Calif. 95060, U.S.A. *Telephone:* 408-427-1554.

ANDERSON, Sir Colin (Skelton), K.B.E., Kt.; British shipowner; b. 15 July 1904, London; s. of Sir Alan Anderson, G.B.E.; m. Morna Campbell MacCormick 1932; two d.; ed. Eton and Trinity Coll., Oxford; fmr. Dir. P. & O. Steam Navigation Co., Australia & N.Z. Bank; Chair. Anderson Green & Co. Ltd. 1963-70; Dir. Midland Bank Ltd. 1950-74, Marine Insurance Co. Ltd. 1950-70, Orient S.N. Co. Ltd. 1950-70; Dir. Royal Opera House, Covent Garden Ltd. 1961-73, City Arts Trust Ltd. 1962-70; Chair. Nat. Assn. of Port Employers 1947-48, 1950-54, I.C.C. Comm. on Sea Transport 1965-71, Int. Chamber of Shipping 1949-63, Hon. Pres. 1963-; Chair. London Shipowners' Dock Labour Cttee. 1944-45, London Port Employers (and mem. London Board of Nat. Dock Labour Board) 1945-47; Pres. British Employers' Confed. 1956-58 (Vice-Pres. 1952-56), Chamber of Shipping of U.K. 1949; mem. Royal Fine Art Comm. 1959-, Chair. 1968-76; Chair. Trustees of Tate Gallery 1960-67 (Vice Chair. 1953-59); Trustee Nat. Gallery 1963-67; Chair. Contemporary Art Soc. 1956-60; Provost, Royal Coll. of Art 1967- (Chair. 1952-56); mem. British Transport Comm. Design Panel 1962-76; Corresp. mem. Bavarian Acad. of Fine Arts 1970-; Officer, Order of Orange Nassau; Hon. Designer of Royal Coll. of Art, Hon. Assoc. of Royal Inst. of British Architects; Hon. LL.D., (Aberdeen); Hon. Fellow, Trinity Coll., Oxford. *Leisure interests:* the home, the arts, the garden. *Address:* Le Val House, St. Brelade, Jersey, Channel Islands. *Telephone:* 42-142.

ANDERSON, Eugenie Moore; American diplomatist; b. 26 May 1909, Adair, Iowa; d. of E. A. Moore and Flora McMillen Moore; m. John Pierce Anderson 1930; one s. one d.; ed. Stephens Coll., Simpson Coll., Carleton Coll., Inst. of Musical Art, new York City. Amb. to Denmark 1949-53; Chair. Minnesota State Comm. for Fair Employment Practices 1955-60; mem. Bd., U.S. Cttee. for Refugees 1959-60; mem. Democratic Nat. Advisory Cttee. on Foreign Policy 1957-60; mem. Bd. of Dirs. American Assn. for the UN 1959-61; Vice-Chair. Citizens' Cttee. for Int. Devt. 1961-62; Trustee, American Freedom from Hunger Foundation 1962; Minister to Bulgaria 1962-65; U.S. Rep. to UN Trusteeship Council and mem. U.S. Del. to UN as Amb. 1965-68; Dir. First Nat. Bank of Minn. 1971-74; Trustee Minn. Soc. of Fine Arts 1975-. *Leisure interests:* music, reading, art, travel. *Address:* Tower View, Red Wing, Minn. 55066, U.S.A. *Telephone:* 612-388-6553.

ANDERSON, Harold David, O.B.E., B.A.; Australian diplomatist; b. 6 Sept. 1923; m.; two c.; served with Australian military forces in Second World War; joined Australian Foreign Service 1945; served in Paris, Karachi, Noumea; Chargé d'Affaires Phnom Penh 1955-57; First Sec. Tokyo 1957-58; Counsellor Dept. of External Affairs 1959; Imperial Defence Coll. 1963; Amb. to Viet-Nam 1964-66; Australian Observer Viet-Nam Peace Negotiations 1968-70; Amb. to France and Permanent Rep. to UNESCO 1973-78; Amb. to Morocco (non-resident) 1977-78; Permanent Rep. of Australia to U.N. 1978-. *Address:* Permanent Mission of Australia to the United Nations, One Dag Hammarskjöld Plaza, 885 Second Avenue, 16th Floor, New York, N.Y. 10017, U.S.A

ANDERSON, John Stuart, PH.D., F.R.S., F.A.A.; British chemist; b. 9 Jan. 1908, London; s. of John Anderson and Emma Sarah Pitt; m. Joan Habershon Taylor 1935; one s. three d.; ed. Imperial Coll. of Science and Technology and Heidelberg Univ. Asst. Lecturer, Imperial Coll. of Science 1932-38; Sr. Lecturer, Univ. of Melbourne 1938-47, Prof. and Head of Chem. Dept. 1954-59; Deputy Chief Scientific Officer, Atomic Energy Research Establishment, Harwell 1947-53; Dir. Nat. Chemical Lab. (U.K.) 1959-63; Prof. of Inorganic Chem., Oxford Univ. 1963-75; Hon. Professorial Fellow, Univ. Coll. of Wales, Aberystwyth 1975-; Treas. Australian Acad. of Science 1956-59; Davy Medal (Royal Soc.) 1973, Longstaff Medal (Chemical Soc.) 1975. *Publications:* numerous papers in scientific journals. *Leisure interests:* reading, painting, photography. *Address:* Edward Davies Chemical Laboratory, University of Wales, Aberystwyth (Office); The Cottage, Abermagwr, Dyfed, Wales (Home). *Telephone:* (0970) 617645 (Office).

ANDERSON, Dame Judith, D.B.E.; Australian actress; b. 10 Feb. 1898, Adelaide; ed. Norwood High School. Stage debut in A Royal Divorce, Theatre Royal, Sydney 1915; went to New York 1918; stage appearances have included: The Dove, Behold the Bridegroom, Strange Interlude, Mourning becomes Electra, Come of Age, The Old Maid, Hamlet, Macbeth, Family Portrait, Tower Beyond, Three Sisters, Medea; films: Rebecca, Edge of Darkness, Laura, King's Row, Spectre of the Rose, The Red House, Pursued, Tycoon, Cat on ■ Hot Tin Roof, Macbeth, Don't Bother to Knock, A Man Called Horse, The Chinese Prime Minister (TV) 1974. *Address:* 808 San Ysidro Lane, Santa Barbara, Calif. 93103, U.S.A. (Home).

ANDERSON, Hon. Sir Kenneth McColl, K.B.E.; Australian politican; b. 11 Oct. 1909, at sea off Adelaide; s. of D. M. Anderson; m. Madge Merrion; one d.; served with Signals Corps of 8th Div. of Australian Imperial Force 1941-45; prisoner-of-war for 3½ years; Mayor of Ryde 1949-51; elected to Legislative Ass. of New South Wales 1950-53; mem. Senate 1953-75; temporary Chair. of Cttees. of the Senate 1956-64; Minister for Customs and Excise 1964-68; Minister for Supply 1968-71; Minister of Health Aug. 1971-Dec. 1972; Leader of the Govt. in the Senate 1968-Dec. 1972; Pres., Most Excellent Order of British Empire Assocs., Food for N.S.W. Babies Fund and Good Samaritan Soc.; Chair. Thalidomide Foundation Ltd. *Leisure interest:* bowls. *Address:* 80 East Parade, Eastwood 2122, N.S.W., Australia.

ANDERSON, Lindsay Gordon, M.A.; British film and theatre director; b. 17 April 1923, Bangalore, S. India; s. of Maj.-Gen. A. V. Anderson and Mrs. Estelle Bell Sleigh; ed. St. Ronan's School, Cheltenham Coll., and Wadham Coll., Oxford. Co-Founder and Editor Film Review Sequence 1947-52; Co-Founder Free Cinema Group, Nat. Film Theatre 1956-59; Pres. Jury, Canadian Nat. Film Festival 1963; Jury mem. Int. Festivals Delhi 1965, Venice 1966; Assoc. Dir. Royal Court Theatre 1969-75. *Films directed:* Wakefield Express 1953, Thursday's Children (with Guy Brenton) 1954, O Dreamland 1954, Every Day Except Christmas 1957, This Sporting Life 1963, The White Bus 1965/66, Raz, Dwa, Trzy (The Singing Lesson) for Documentary Studio, Warsaw 1967, If . . . 1968, O Lucky Man! 1973, In Celebration 1974. *Stage productions:* The Long and the Short and the Tall 1959, Serjeant Musgrave's Dance 1959, The Lily White Boys 1960, Billy Liar 1960, The Fire Raisers 1961, The Dairy of a Madman 1963, Andorra 1964, Julius Caesar 1964, The Cherry Orchard 1966; directed Polish production of Inadmissible Evidence (Nig Do Obrony), Teatr Wspolczesny, Warsaw 1966; In Celebration 1969, The Contractor 1969, Home (London and Broadway) 1970, The Changing Room 1971, The Farm 1973, Life Class 1974, What the Butler Saw 1975, The Sea Gull 1975, The Bed before Yesterday 1975, The Kingfisher 1977, Alice's Boys 1978, television debut The Old Crowd 1979. *Publication:* Making ■ Film 1962. *Leisure interests:* photography, resting. *Address:* 9 Stirling Mansions, Canfield Gardens, London, N.W.6, England.

ANDERSON, Marian; American singer; b. 17 Feb. 1902; ed. Philadelphia public school; studied with Agnes Reifsneider, Giuseppe Boghetti and Frank La Forge; concerts in U.S.A., Europe, Africa, S. America, Japan and W. Indies 1926-53; U.S. del. to UN 1958; U.S. Presidential Medal of Freedom award 1962, and numerous overseas awards. *Publications:* My Lord, What a Morning! (autobiography) 1956. *Address:* Danbury, Conn. 06810, U.S.A.

ANDERSON, Philip W., PH.D.; American physicist; b. 13 Dec. 1923, Indianapolis, Ind.; s. of Prof. H. W. Anderson and Elsie Osborne Anderson; m. Joyce Gothwaite 1947; one d.; ed. Univ. High School, Urbana, Ill., and Harvard Univ. Naval Research Laboratory 1943-45; mem. Technical Staff Bell Telephone Laboratories 1949-, Chair Theoretical Physics Dept. 1959-61, Asst. Dir. Physical Research Laboratory 1974-76, Consulting Dir. 1976-; Visiting Lecturer, Univ. of Tokyo 1953-54; Overseas Fellow, Churchill Coll., Cambridge 1961-62; Editor Physics 1964-68; Visiting Prof. of Theoretical Physics, Cambridge Univ. 1967-75; Prof. Princeton Univ. 1975-; mem. Nat. Acad. of Sciences 1967-, mem. Council 1976, American Acad. of Arts and Sciences 1966-; mem. Japanese Physical Soc.; Fellow, American Physical Soc.; mem. Inst. of Physics and Physical Soc.; Hon. D.Sc. (Univ. of Illinois); Nobel Prize for Physics 1977, O. E. Buckley Prize, American Physical Soc., Dannie Heineman Prize, Acad. of Sciences, Göttingen; Guthrie Medal, Inst. of Physics, U.K.; Hon. Fellow, Jesus Coll., Cambridge 1978-. *Publications:* Concepts in Solids 1963; review articles and book chapters on exchange in insulators, Josephson effect and quantum coherence, hard superconductors, localized moments, resonances in transition metals, etc.; approx. 150 research papers on spectral line broadening, magnetism, superconductivity, many-body theory, quantum chemistry, nuclear physics, etc. *Leisure interests:* hiking, Go (rank shodan), gardening and ecology, studying social and biological sciences, Romanesque architecture. *Address:* Room 1D-268, Bell Laboratories Inc., Murray Hill, N.J. 07974; Princeton university, Princeton, N.J. 08540, U.S.A.

ANDERSON, Robert, M.A.E.; American business executive; b. 2 Nov. 1920, Columbus, Neb.; s. of late Robert Anderson and of Lillian Anderson Bays; m. 1st Constance Anderson (divorced 1972), one s. one d.; m. 2nd Diane Clark Lowe 1973; ed. Fairfax High School, Los Angeles, Colorado State Univ. and Chrysler Inst. of Engineering; with Chrysler Corpn. 1946-68, Vice-Pres. and Gen. Man. Chrysler-Plymouth Div. 1965, subsequently Vice-Pres. Product Planning and Devt.; Dir. and Pres. Commercial Products Group, North American Rockwell Corpn. 1968; Exec. Vice-Pres. North American Rockwell Corpn. 1969-70, Pres. and Chief Operating Officer (now Rockwell Int. Corpn.) 1970-74, Pres., Chief Exec. Officer 1974-; Dir. Hospital Corpn. of America, Celanese Corpn., Ducommun Inc., Security Pacific Nat. Bank; mem. Board of Trustees, Calif. Inst. of Tech. 1975-; Hon. Alumnus Award and Hon. LL.D. (Colorado State). *Leisure interests:* golf, tennis, flying. *Address:* Rockwell International Corporation, 600 Grant Street, Pittsburgh, Pa. 15219, U.S.A.

ANDERSON, Robert Bernerd; American lawyer and public servant; b. 4 June 1910, Burleson, Texas; s. of Robert Lee and Elizabeth (Haskew) Anderson; m. Ollie Mae Rawlings Anderson 1935; two s.; ed. Godley High School, Weatherford Coll. and Univ. of Texas; taught in Burleson High School 1927-30; studied Univ. of Texas Law School 1930-32, was meanwhile elected to the Texas legislature; practised law 1932; Asst. Attorney-Gen. of Texas and Prof. of Law at Univ. of Texas 1933; State Tax Commr. 1934-37, and Chair. and Exec. Dir. Texas Unemployment Comm. 1936; Gen. Counsel for the Waggoner Estate (oil and ranching empire) 1937-, Gen. Man. 1941-53; U.S. Sec. of Navy 1953-54; Deputy Sec. of Defense 1954-55; Sec. of Treasury 1957-61; Special Envoy of U.S. Pres. to U.A.R. Oct. 1967; served as Pres. of Texas Board of Educ., Dir. of the Reserve Bank of Texas and on many other public bodies; fmr. Pres. Ventures Ltd., Chair. Robert B. Anderson and Co. Ltd., Dir. C.I.T. Financial Corpn., Copy Technology, Goodyear Tire and Rubber Co., Intercontinental Trailsea Corpn., Pan American World Airways Inc., ITC Commercial Credit Card Inc. *Address:* Robert B. Anderson and Co. Ltd., 630 Fifth Avenue, New York, N.Y. 10020 (Office); Khakum Wood Road, Greenwich, Conn., U.S.A. (Home).

ANDERSON, Robert Orville, B.A.; American cattle rancher and business exec.; b. 1917, Chicago, Ill.; s. of Hugo A. and Hilda Nelson Anderson; m. Barbara Herrick Phelps 1939; two s. five d.; ed. Univ. of Chicago; founder and Pres. Hondo Oil and Gas Co. (fmrly. Malco Refineries Inc.) 1941-63; Founder and Owner, Lincoln County Livestock Co., Texas and New Mexico; Chair. Federal Reserve Bank of Dallas 1959-65; Dir. Northern Natural Gas Co. 1960-63; Chair. of Exec. Cttee. and Dir. The Atlantic Refining Co. 1963-65 (now Atlantic Richfield Co.), Chair. of Board 1965-; mem. Nat. Petroleum Council 1954-; Chair. Aspen Inst. for Humanistic Studies 1959-, The Aspen Co.; Chair. Lovelace Foundation 1962-; Chair. of Board Eisenhower Exchange Fellowships; Trustee, Univ. of Chicago 1963-, Calif. Inst. of Technology, Univ. of Denver; mem. Washington Inst. for Foreign Affairs 1963-; official of numerous civic and business orgs. *Leisure interests:* hunting and fishing. *Address:* 515 S. Flower Street, Los Angeles, Calif., U.S.A. (Office).

ANDERSON, Roger E., B.S.; American banker; b. 29 July 1921, Chicago, Ill.; s. of Elmer and June Anderson; m. Marilyn Spence 1949; two s.; ed. Northwestern Univ.; joined Continental Illinois Nat. Bank 1946, Commercial Dept. 1947-48, Asst. Cashier 1949, successively Second Vice-Pres., Vice-Pres., Senior Vice-Pres. of Int. Banking 1949-68, Exec. Vice-Pres., Dir. 1968, Vice-Chair. 1971; Chair. of Board of Dirs. of Continental Illinois Corpn. and Continental Illinois Nat. Bank March 1973-. *Leisure interests:* fishing, tennis. *Address:* Continental Illinois National Bank, 231 South LaSalle Street, Chicago, Ill. 60693, U.S.A. *Telephone:* (312) 828-7703 (Office).

ANDERSON, Roy Arnold, M.B.A.; American financial executive; b. 15 Dec. 1920, Ripon, Calif.; s. of Carl Gustav Anderson and Esther Marie Johnson; m. Betty Leona Boehme 1948; two s. two d.; ed. Ripon Union High School, Humphrey's School of Business, Stanford Univ. Man., Factory Accounting, Westinghouse Electric Corpn. 1952-56; Man., Accounting and Finance, also Dir., Management Controls, Lockheed Missiles and Space Co. 1956-65; Dir. of Finance, Lockheed Georgia Co. 1965-68; Asst. Treas. Lockheed Aircraft Corpn. 1968-69, Vice-Pres. and Controller 1969-71, Senior Vice-Pres., Finance 1971-75, Vice-Chair. of Board, Chief Financial and Admin. Officer 1975-77, Chair. 1977-. *Leisure interest:* tennis. *Address:* Lockheed Corporation, P.O. Box 551, Burbank, Calif. 91520, U.S.A. *Telephone:* (213) 847-6452.

ANDERSON, Thomas Foxen, PH.D.; American biologist; b. 7 Feb. 1911, Manitowoc, Wis.; s. of late Anton Anderson and Mabel Foxen; m. Wilma Fay Ecton 1937; one s. one d.; ed. Calif. Inst. of Technology and Univ. of Munich. Instructor in Chemistry, Univ. of Chicago 1936-37; Investigator in Botany, Univ. of Wis. 1937-39, Instructor in Physical Chemistry 1939-40; R.C.A. Fellow of Nat. Research Council 1940-42; Assoc. Johnson Foundation Univ. of Pennsylvania 1942-46, mem. of Faculty 1946-, Prof. of Biophysics 1958-; Sr. mem. Inst. for Cancer Research 1958-; Fulbright and Guggenheim Fellow, Inst. Pasteur, Paris 1955-57; mem. N.A.S. Electron Microscope Soc. of America (Pres. 1955), Int. Fed. of Electron Microscope Socs. (Pres. 1960-64), Biophysical Soc. (Pres. 1965), American Soc. of Naturalists, A.A.A.S., American Soc. of Microbiology, Deutsche Gesellschaft für Elektronenmikroscopie, Soc. Française de Microscopie Electronique (Hon. mem.); mem. Int. Cttee. on Nomenclature of Viruses 1968-; Silver Medal of Inst. Pasteur 1957. *Publications:* The Reactions of Bacterial Viruses with Their Host Cells (Botanical Review 15) 1949, Bacteriophages (Annual Review of Microbiology 4) 1950, Recombination and Segregation in Escherichia coli (Cold Spring Harbor Symposium on Quantitative Biology 23) 1958, The Molecular Organization of Virus Particles (Molecular Organization and Biological Function editor John M. Allen) 1967, Some Personal Memories of Research (Annual Review of Microbiology) 1975. *Leisure interests:* golf, travel, water-colour painting. *Address:* The Institute for Cancer Research, 7701 Burholme Avenue, Philadelphia, Pa. 19111, U.S.A. *Telephone:* (215) 728-2481.

ANDERSON, Warren M., LL.B.; American business executive; b. 29 Nov. 1921, Brooklyn, New York; s. of John M. and Ida Peterson Anderson; m. Lillian Christensen 1947; ed. Colgate Univ., Western Reserve Univ.; joined Union Carbide Corpn. 1945; engaged in chemicals, plastics, gases, metals and carbons industries; responsible for operations in U.S.A., Europe, Latin America, Africa, Middle East; Vice-Pres. of Corpn. 1969, Exec. Vice-Pres. 1973, mem. Board of Dirs. 1974-, now of Exec. Cttee. of Boards; Pres. and Chief Operating Officer, Union Carbide Corpn. 1977-. *Address:* 270 Park Avenue, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 551-4158.

ANDERSON, Wendell Richard, B.A., LL.B.; American politician; b. 1 Feb. 1933, St. Paul, Minn.; s. of Theodore M. Anderson and Gladys Nord; m. Mary C. McKee 1963; one s. two d.; ed. Univ. of Minn.; mem. Minnesota House of Reps. 1958-62; elected to Minn. Senate 1962, re-elected 1966; Gov. of Minnesota 1971-76; Senator from Minnesota 1976-79; Democratic Farmer Labour Party. *Leisure interests:* hockey, golf. *Address:* c/o Senate Office Building, Washington, D.C. 20510, U.S.A.

ANDERSON, Capt. William R.; American naval officer; b. 17 June 1921, Bakerville, Tenn.; s. of Mr. and Mrs. D. H. Anderson; m. Yvonne Etzel 1943; two s.; ed. Columbia Military Acad. and U.S. Naval Acad.; commissioned 1942; service in submarines 1942-59; Idaho Univ. Inst. of Naval Tactics 1951; Naval Reactors Branch, Atomic Energy Comm. 1956-57, 1959; Commdr. Nautilus, the world's first atomic submarine 1957-59 (in which he achieved the first totally submerged transit of the North Pole and N.W. Passage 1958); Freedoms Foundation 1962-64; mem. U.S. House of Reps. 1964-72 Computer Corporate Exec. 1972-; Bronze Star Combat "V", Legion of Merit 1958, Christopher Columbus Int. Medal (Italy) 1958, Patron's Medal, Royal Geographical Soc. 1959, Freedom Leadership Award 1960, various war and campaign medals; Democrat. *Publications:* Nautilus 90 North 1959, First under the North Pole 1959, The Useful Atom 1966. *Address:* 2700 Virginia Avenue, N.W., Washington, D.C. 20037, U.S.A. *Telephone:* 202-333-3938.

ANDERSON, William Summers, A.A.S.A.; British business executive; b. 29 March 1919, Hankow, China; s. of William G. and Mabel Anderson; m. Janice Elizabeth Robb 1947; three d.; ed. Public and Thomas Hanbury School, Shanghai. Internal Auditor Hong Kong and Shanghai Hotels Ltd. 1938-39; auditor Linstead and Davis 1940-41; war service 1941-45; Nat. Cash Register Corpn. (NCR) (U.K.) 1945, Man. NCR Hong Kong 1946-59, Vice-Pres. Far East and Chair. NCR Japan 1959-72, Corporate Pres. and Dir. 1972, Chief Exec. Officer 1973, Chair. and Pres. 1974, Chair. 1976-. *Leisure interests:* sailing, golf. *Address:* NCR Corporation, Main and K Streets, Dayton, Ohio 45479 (Office); 895 West Rahn Road, Dayton, Ohio 45429, U.S.A. (Home). *Telephone:* 513-449-2250.

ANDERSON-IMBERT, Enrique, PH.D.; Argentine university professor; b. 12 Feb. 1910, Argentina; s. of José Enrique Anderson and Honorina Imbert; m. Margot Di Clerico 1934; one s. one d.; ed. Univ. Nacional de Buenos Aires. Professor, Univ. Nacional de Cuyo, Argentina 1940-41, Univ. Tucumán, Argentina 1941-46, Univ. of Michigan 1947-65; First Victor S. Thomas Prof. of Hispanic American Literature, Harvard Univ. 1965-; mem. American Acad. of Arts and Sciences 1967, Academia Argentina de Letras, 1978; City of Buenos Aires prize for novel Vigilia 1934. *Publications:* Vigilia 1934, El arte de la prosa en Juan Montalvo 1948, Historia de la literatura hispanoamericana 1954, ¿Qué es la prosa? 1958, El grimorio 1961, Vigilia-Fuga 1963, El gato de Cheshire 1965, Genio y figura de Sarmiento 1967, La originalidad de Rubén Darío 1967, La sandía y otros cuentos 1969, Una aventura de Sarmiento en Chicago 1969, Métodos de Crítica literaria 1969, La locura juega al ajedrez 1971, La flecha en el aire 1972, Los domingos del profesor 1972, Estudios sobre letras hispánicas 1974, La Botella de Klein 1975, Los primeros cuentos del mundo, Victoria 1977, El realismo magico 1978, El arte del cuento 1979. *Address:* Department of Romance Languages, 201 Boylston Hall, Harvard University, Cambridge, Mass. 02138, U.S.A.

ANDERSSON, Bibi; Swedish actress; b. 11 Nov. 1935; m. Per Ahlmark 1978; ed. Terserus Drama School and Royal Dramatic Theatre School, Stockholm. Malmö Theatre 1956-59, Royal Dramatic Theatre, Stockholm 1959-; appearances at Uppsala Theatre 1962-; plays acted in include: Erik XIV 1956, Tre systrar 1961, King John 1961, Le balcon 1961, La grotte 1962, Uncle Vanya 1962, Who's Afraid of Virginia Woolf 1963, As You Like It 1964, After the Fall 1964-65, The Full Circle 1973, Twelfth Night 1975, The Night of the Tribades 1977; films acted in include: Sjunde inseglet (Seventh Seal) 1956, Smultronstället (Wild Strawberries) 1957, Nära livet (The Brink of Life) 1958, Sommarnöje Sökes (Summer House Wanted) 1958, Djävulens öga (Eye of the Devil) 1961, Älskarinnen (The Mistress) 1962, För att inte tala om alla dessa kvinnor (All Those Women) 1964, Juninatt (June Night) 1965, Ön (The Island) 1965, Syskonbädd (My Sister, My Love) 1966, Persona 1966, Duel at Diablo 1966, The Girls 1969, The Kremlin Letter 1970, A Passion, The Touch 1971, Scenes from a Marriage 1974, Quintet 1979. *Address:* c/o Svenska Filminstitutet, Kungsgatan 48, Stockholm C; Tykö Vägen 28, Lidingo, Sweden (Home). *Telephone:* 7663801.

ANDERSSON, Harriet; Swedish actress; b. 1932, Stockholm; theatre career commenced in chorus at Oscars Theatre; subsequently appeared in reviews and then started serious dramatic career at Malmö City Theatre 1953; now appears regularly at Kunigliga Dramatiska Teatern, Stockholm; best-known stage appearances include performances of Anne Frank in The Diary of Anne Frank, Ophelia in Hamlet, in The Beggar's Opera and in

plays by Chekhov; numerous film appearances including several by Ingmar Bergman (q.v.): Summer with Monica 1953, Sawdust and Tinsel 1953, Women's Dreams 1955, Dreams of a Summer Night 1955, Through a Glass Darkly 1961, All Those Women 1964, Cries and Whispers 1973; films directed by Jörn Donner (q.v.): One Sunday in September 1963, To Love 1964, Adventure Starts Here 1965, Stimulantia 1965-66, Rooftree 1966, Anna 1970; other films include: Siska 1962, Dream of Happiness 1963, Loving Couples 1964, For the Sake of Friendship 1965, Vine Bridge 1965, The Serpent 1966, The Deadly Affair 1967, The Girls 1968, The Stake; German Film Critics' Grand Prize for Through a Glass Darkly; Swedish Film Assn. plaque; Best Actress Award, Venice Film Festival 1964 (for To Love). *Address:* c/o Sandrew Film & Theater AB, Box 5612, 114 86 Stockholm, Sweden.

ANDERSSON, Sven Olof Morgan; Swedish politician; b. 5 April 1910, Gothenburg; ed. People's High School, Geneva. Pres., Gothenburg District, Social-Democratic Youth Union 1929-32; Instructor in W.E.A., Gothenburg 1932-35; mem. Nat. Cttee. Social Democratic Youth Union 1934-40; Sec. Gothenburg District, Social-Democratic Party 1935-45; Town Councillor, Gothenburg 1938-40; mem. Second Chamber of Parl. 1940-44; Gen. Sec. Social-Democratic Party 1945-48; mem. First Chamber of Parl. 1948-; Minister without Portfolio 1948-51; Minister of Communications 1951-57, of Defence 1957-73, of Foreign Affairs 1973-76. *Address:* Riksdag, Stockholm, Sweden.

ANDICS, Mrs. Erzsébet, PH.D.; Hungarian historian and university professor; b. 1902. Prof. of Modern Hungarian History, Eötvös Loránd Univ., Budapest; Deputy Minister for Education 1953-56; mem. Hungarian Acad. of Sciences; awarded Kossuth Prize; Red Banner Labour Order of Merit 1972. *Publications include:* Kossuth Lajos harca az árulók és megalkuvók ellen a reformkorban és a forradalom idején (Lajos Kossuth's Struggle Against the Traitors and Opportunists during the Reform era and the Time of the Revolution), A magyarországi munkásmozgalom az 1848-49-es forradalomtol és Szabadságharctól az 1917-es Nagy Októberi Szocialista Forradalomig (The Hungarian Working Class Movement from the 1848-49 Revolution and The War of Independence up to the 1917 Great October Revolution) 1955, A nagybirtokos arisztokrácia ellenforradalmi szerepe 1848-49-ben. II-III 1953-65, Das Bündnis Habsburg-Romanow 1963, 1848-49 Tanulmányok 1968, Metternich und die Frage Ungarns 1973, Széchenyi and Metternich 1975, Metternich and Hungary 1975. *Address:* Eötvös Loránd Tudományegyetem, Budapest V, Pesti Barnabás u. I (Office); and H-1026 Budapest II, Orsó-utca 19, Hungary (Home). *Telephone:* 364-106.

ANDRAS, Hon. Robert Knight; Canadian politician; b. 1921, Lachine, P.Q.; s. of John D. Andras and Angela E. Knight; m. Frances Hunt 1945; one s. one d.; ed. Wesley Coll., Winnipeg, Man.; served with Queen's Own Cameron Highlanders 1942-46; successive exec. positions, Ford Motor Co. 1946-55; Pres. of several companies 1958-65; elected Liberal mem. Fed. Parl. 1965, re-elected 1968, 1972, 1974; Minister without Portfolio responsible for Housing 1968-71; Minister of State for Urban Affairs 1971; Minister of Consumer and Corporate Affairs Jan.-Nov. 1972; Minister of Manpower and Immigration 1972-76; Pres. Treas. Board 1976-78; Pres. Board of Econ. Devt. Ministers 1978-79. *Address:* House of Commons, Ottawa, Ont., K1A 0A6 (Office); Thunder Bay, Ontario and Ottawa, Ont., Canada (Home).

ANDREADIS, Stratis G., LL.D.; Greek banker; b. Vrontados, Island of Chios; ed. Univs. of Athens and Paris; called to the Bar, Athens 1927; Prof. Admin. Law, Univ. of Salonica 1939; Athens Graduate School of Econs. and Business Sciences, Prof. of Admin. Law 1939-69, Prof. Emer. 1969, Rector 1943-44, 1956-57, 1960-61, 1964-66, 1967-68; Pres. and Chair. Commercial Bank of Greece, Ionian and Popular Bank of Greece and Bank of Piraeus; Chair. Investment Bank, Bank of Attica and Commercial Bank of the Near East Ltd. (London); Chair. and Financial-Admin. Man. Hellenic Electric Railways; Chair. The Phoenix Insurance Co., Ioniki Insurance Co., Gen. Insurance of Greece Co., Andreadis (U.K.) Ltd./Shipping/London, Phosphoric Fertilizers Industry S.A., Eleusis Shipyard Co. Ltd., Greek Juice Processing and Canning Industry S.A., Ioniki Hotel Enterprises Ltd., Greek Gen. Enterprises Ltd., Greek Industry for Sacks and Plastic Products Co. Ltd., Hellenic Mutual Fund Management Co. S.A.; official of numerous nat. and int. business orgs.; Corresp. mem. Acad. of Moral and Political Sciences, France 1972; Fellow, Historical and Ethnological Soc. of Greece; Knight Commdr. and Commdr. Royal Order of George I; Knight Commdr. Royal Order of the Phoenix; Grande Ufficiale dell' Ordine Al Merito della Repubblica Italiana; Officier Légion d'honneur; Officier Ordre de Léopold (Belgium); Archon Megas Ritor (Dignitary of the Ecumenical Patriarchate); Cross of Saint Mark Class A, Greek Orthodox Patriarchate of Alexandria; Grand Commdr., Greek Orthodox Patriarchate of Jerusalem; Golden Cross Millenary of Mount Athos; Gold Medal Ministry of Merchant Marine; Gold Medal Soc. des Arts, Sciences et Lettres, Paris; Grand Cross of Merit with Star (Fed. Rep. of Germany) *Publications:* Le contentieux administratif des états modernes 1934, The Invalidating Jurisdiction of the Council of State (two vols.) 1936, 1943, Elements of Administrative Law 1956, Elements of Constitutional Law 1953, Lectures in Administrative Justice 1964, Administrative Law 1968; Essays (three vols.) 1961-62; numerous studies and articles on gen. econ., banking and shipping matters; many contributions to the Greek and int. press. *Address:* 11 Sofocleous and 80 Aeolou Streets, Athens 122; 11 King George II Street, Athens 138, Greece.

ANDREI, Stefan; Romanian politician; b. 29 March 1931, Podari, Dolj County; ed. Inst. of Civil Eng., Bucharest. Asst. Prof. Inst. of Civil Eng. and Inst. of Oil, Gas and Geology, Bucharest 1956-63; mem. Union of Communist Youth (UCY) 1949-54; joined student movement 1951; mem. Exec. Cttee. Union of Student. Assocs. 1959-62; mem. Bureau Cen. Cttee. UCY; mem. Romanian Communist Party (RCP) 1954-; alt. mem. Cen. Cttee. RCP 1965-72, mem. 1972–; First Deputy Head of Int. Section Cen. Cttee. 1965-72; Sec. Cen. Cttee. 1972-78; alt. mem. Exec. Political Cttee. 1974-; mem. Standing Bureau, Exec. Political Cttee. 1974-; Minister for Foreign Affairs March 1978-; mem. Grand Nat. Assembly 1975-. *Address:* Ministerul Afacerilor Externe, Piaţa Victoriei 1, Bucharest, Romania. *Telephone:* 14 34 00.

ANDREOTTI, Giulio; Italian journalist and politician; b. 14 Jan. 1919, Rome; m. Livia Danese 1945; four c.; ed. Univ. of Rome. Pres., Fed. of Catholic Univs. in Italy 1942-45; Deputy to the Constituent Assembly 1945 and to Parl. 1947-; Under-Sec. in the Govts. of De Gasperi and Pella 1947-53; Minister for the Interior in Fanfani Govt. 1954; Minister of Finance 1955-58, of Treasury 1958-59, of Defence 1959-60, 1960-66, March-Oct. 1974, of Industry and Commerce 1966-68, for the Budget, and Econ. Planning and in charge of Southern Devt. Fund 1974-76, Chair. Christian Democratic Parl. Party in Chamber of Deputies 1968-72; Prime Minister 1972-73, July 1976-; Chair. Foreign Affairs Cttee., Chamber of Deputies. *Publications:* Editor of Concretezza 1954-76. *Address:* Piazza Montecitorio 115, Rome, Italy.

ANDREWES, Sir Christopher Howard, LL.D., F.R.S., F.R.C.P.; British physician; b. 7 June 1896, London; s. of Sir Frederick Andrewes, F.R.S. and Phyllis Mary Hamer; m. Kathleen Helen Lamb 1927; three c.; ed. Highgate School and St. Bartholomew's Hospital, London. Surgeon Sub-Lieut. Royal Naval Volunteer Reserve 1918-19; House Physician and Chief Asst. to Medical professorial Unit, St. Bartholomew's Hospital 1921-23, 1925-26; Asst. Resident Physician, Hospital of Rockefeller Inst., New York City 1923-25; William Julius Mickle Fellow, Univ. of London 1931; Oliver-Sharpey Lecturer Royal Coll. of Physicians 1934; mem. Nat. Inst. for Medical Research 1927-61, Deputy Dir. 1952-61; in charge of WHO World Influenza Centre, Mill Hill, London 1948-61. *Publications:* Viruses of Vertebrates 1964, The Common Cold 1965, The Natural History of Viruses 1967, The Lives of Wasps and Bees 1969. *Leisure interests:* natural history, especially entomology. *Address:* Overchalke, Coombe Bissett, Salisbury, Wilts., England. *Telephone:* Coombe Bissett 201.

ANDREWS, David Roger Griffith, M.A., A.C.M.A.; British company executive; b. 27 March 1933, Hamilton, Ont., Canada; s. of C. and G.M. Andrews; m. Dorothy Ann Campbell 1963; two s., one d.; ed. Abingdon School and Pembroke Coll., Oxford. Assistant Controller, Ford of Europe 1968; Controller, British Leyland Motor Corpn. Ltd. 1969; Finance Dir., Austin Morris Ltd. 1970; Man. Dir. Power and Transmission Div. BLMC Ltd. 1973; Man. Dir. Leyland Int. 1975; Exec. Vice-Chair. British Leyland Ltd. Dec. 1977-. *Leisure interests:* sailing, photography. *Address:* Heatherbank, 11a Plymouth Road, Barnt Green, Worcs., England.

ANDREWS, Eamonn; Irish radio and television commentator and official; b. 19 Dec. 1922, Dublin; s. of William and Margaret Andrews; m. Grainne Bourke 1951; one s. two d.; ed. Synge School, Dublin. Insurance Clerk, Dublin; boxing commentaries, Radio Eireann 1940; Irish Independent 1945; studied acting under Abbey Theatre actress Ria Mooney, wrote play The Moon is Black; came to England 1950; radio and television appearances include sports programmes, children's programmes, What's My Line, This is Your Life, Today, Time for Business; Chair. Irish Television Authority (Radio Eireann) 1960-66, joined ABC Television 1964, presented The Eamonn Andrews Show and World of Sport; joined Thames Television on its formation 1968; Chair. Eamonn Andrews Studios Ltd. and Gaiety Theatre, Dublin; Knight Order of St. Gregory the Great; Hon. C.B.E. 1970. *Publications:* This is My Life 1963,

Surprise of Your Life 1978. *Leisure interests:* writing, reading, listening, golf. *Address:* Windsor House, Heathfield Gardens, London, W4 4ND, England.

ANDREWS, Julie; British actress and singer; b. 1 Oct. 1935, Walton-on-Thames, Surrey, m. 1st Tony Walton 1959 (dissolved 1968), one d.; m. 2nd Blake Edwards 1969; first stage appearance at the age of twelve as singer, London Hippodrome; played in revues and concert tours; appeared in pantomime Cinderella, London Palladium; played leading parts in The Boy Friend, New York 1954, My Fair Lady 1959-60, Camelot, New York 1960-62; television play High Tor; several television shows including The Julie Andrews Hour 1972-73; Academy Award (Oscar) Best Actress 1964; three Golden Globe Awards. *Films:* Mary Poppins 1963, The Americanization of Emily 1964, The Sound of Music 1964, Hawaii 1965, Torn Curtain 1966, Thoroughly Modern Millie 1966, Star! 1967, Darling Lili 1970, The Tamarind Seed 1973. *Publications:* Mandy, The Last of the Great Wangdoogles 1974. *Address:* Chasin-Park-Citron Agency, 9255 Sunset Boulevard, Los Angeles, Calif. 90024, U.S.A.

ANDRIAMAHAZO, Brig.-Gen. Gilles; Malagasy army officer; b. 1919, Fort-Dauphin, Tuléar Prov.; ed. Ecole Supérieure de Guerre, Paris; promoted to rank of Col.; then Inspector of Infantry and Artillery, Gen. Staff Headquarters at the Presidency; Brig.-Gen., Inspector-Gen. of the Armed Forces 1970; Mil. Gov. of Tananarive 1972; Minister of Territorial Admin. 1972-75; Chair. Mil. Directorate Feb.-June 1975; Head of Mil. Cttee. for Devt. June 1975-. *Address:* Comité militaire pour le développement, Antananarivo, Madagascar.

ANDRIANOV, Konstantin Aleksandrovich; Soviet sports administrator; b. 16 Feb. 1910, Moscow; ed. High Party School of Central Cttee. of C.P.S.U.; worked in Moscow factories 1924-36; activities in Young Communist League 1936-38; Chair. Moscow City Cttee. for Physical Culture and Sport 1938-41; Deputy Chair. All-Union Cttee. for Physical Culture and Sport, U.S.S.R. Council of Ministers 1941-47, 1950-58; Chief of Dept. of Main Board of Labour Resources, U.S.S.R. Council of Ministers 1958-59; Deputy Chief, Dept. of State Cttee. for Labour and Wages 1959-64; mem. of U.S.S.R. People's Control Cttee. 1964-; Chair. U.S.S.R. Olympic Cttee.; fmr. mem. Exec. Cttee. of Int. Olympic Cttee., Vice-Pres. 1966; Order of Red Banner of Labour. *Address:* c/o U.S.S.R. Olympic Committee, Skatertny pereulok 4, Moscow, U.S.S.R.

ANDRIASHEV, Anatoliy Petrovich; Soviet zoologist; b. 19 Aug. 1910, Montpellier, France; s. of P. E. Waitashevsky and N. Y. Andriasheva; m. Nina N. Savelyeva 1934; two d.; ed. Leningrad Univ. Postgraduate, Research Assoc., Asst. Prof. Leningrad Univ. 1933-39; Sebastopol Biological Scientific Station 1939-44; Chief, Antarctic Research Div., Inst. of Zoology, U.S.S.R. Acad. of Sciences 1944-; Antarctic expeditions 1955-58, 1971-72, 1975-76; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-; Hon. Foreign mem. of American Soc. of Ichthyologists and Herpetologists; State prize-winner 1971. *Publications:* works on ichthyology, marine zoogeography and Antarctic biology. *Leisure interests:* skiing, photography, the French Impressionists. *Address:* Zoological Institute, Academy of Sciences, Leningrad 164, U.S.S.R.

ANDRIESSEN, Jacobus Eije, M.A., PH.D.; Netherlands economist and business executive; b. 25 July 1928, Rotterdam; m. Josephina Hoogeweij 1952; ed. Erasmus Univ., Rotterdam and Amsterdam Free Univ. Dir. Dept. of Gen. Econ. Policy, Ministry of Econ. Affairs 1955-59; Prof., Law Faculty, Univ. of Amsterdam 1959-63; mem. Econ. and Social Cttee. of European Econ. Community (EEC), Netherlands Social and Econ. Council 1959-63; Minister of Econ. Affairs 1963-65; mem. Management Council Royal Packaging Industries Van Leer B. V.; mem. Board of Dirs. Ballast-Nedam; Chair. Board of Dirs. Elsevier Publishing Co., United Dutch Film Inst., N.V. Ubo Verz. Mij. *Publications:* Development of Modern Price Theory 1955, Anticycle Policy in a Western European Context 1959, The Theory of Economic Policy (co-editor) 1962, The Field of Force between Economics and Politics 1964, Economics in a Mirror 1964, Social-economic Administration in the Netherlands (co-editor), Economics in Theory and Practice. *Leisure interests:* modern literature, painting and films, skiing, golf. *Address:* Waldeck Pyrmontlaan 16, Wassenaar, Netherlands. *Telephone:* 01751-79019.

ANDRIESSEN, Franciscus H. J. J.; Dutch politician; b. 1929; ed. Univ. of Utrecht; mem. of Second Chamber, States-Gen. (Parl.) 1967-; Minister of Finance Dec. 1977-; mem. Catholic People's Party, Christian Democratic Appeal. *Address:* Ministry of Finance, Amsterdam, Netherlands.

ANDRIEU, René Gabriel, B.P., L.-ès-L.; French journalist; b. 24 March 1920, Beauregard (Lot); s. of Alphonse Andrieu and Esther Vernhet; m. Jeanine Vigie 1947; one d.; ed. Toulouse Univ. Diplomatic Editor Ce Soir 1946-58; Chief Editor L'Humanité 1958-; Croix de guerre, Médaille de la Résistance; mem. Central Cttee. French Communist Party 1961-. *Publications:* Les communistes et la révolution 1968, Histoire de France du Front populaire à nos jours (with Jean Effel) 1969, Du bonheur et rien d'autre 1975, Lettre ouverte à ceux qui se réclament du socialisme 1978. *Address:* 5 rue du Faubourg Poissonière, Paris, France.

ANDROPOV, Gen. Yuriy Vladimirovich; Soviet politician; b. 15 June 1941; ed. Inland Waterways Transport Coll., Petrozavodsk State Univ. and Higher Party School. First sec., Young Communist League, Yaroslavl Region 1938-40, Karelo-Finnish Republic C.P.S.U. 1940-44; mem. C.P.S.U. 1939-; Second Sec. Karelo-Finnish Repub. C.P.S.U. 1947-51; official of Cen. Cttee. C.P.S.U. 1951-53; Counsellor, later Amb. to Hungary 1953-57; official responsible for party relations with other Communist countries 1957-62; mem. Central Cttee. C.P.S.U. 1961-; Deputy to U.S.S.R. Supreme Soviet 1950-54, 1962-; mem. Secretariat, Central Cttee. of C.P.S.U. 1962; Cand. mem. Politburo, Central Cttee. of C.P.S.U. June 1967-73, mem. Politburo 1973-; Chair. State Security Cttee. (KGB) of U.S.S.R. Council of Ministers 1967-; Order of Lenin (twice) and other decorations. *Address:* State Security Committee of U.S.S.R. Council of Ministers, Moscow, U.S.S.R.

ANDROSCH, Dr. Hannes; Austrian economist and politician; b. 18 April 1938, Vienna; m. Brigitte Schärf; two c.; ed. Hochschule für Welthandel, Vienna. Asst. auditor, Fed. Ministry of Finance 1956-66; Sec. Econ. Affairs Section, Socialist Parl. Party 1963-66, Vice-Chair. 1974-; mem. Nationalrat (Nat. Council) 1967-; Minister of Finance April 1970-, Vice-Chancellor Oct. 1976-; Grand Gold Medal of Honour. *Address:* Federal Ministry of Finance, Vienna, Austria.

ANDROUTSOPOULOS, Adamantios, LL.B., LL.M., J.D.; Greek politician; b. 1919, Psari, Greece, ed. Athens Univ., John Marshall Law School, Chicago, U.S.A., Chicago Univ.; Lawyer 1947; Prof. of Law, Chicago Industrial School; Scientific collaborator at Roosevelt Univ., Mundelein Coll., John Marshall Law School, Fengen Coll.; returned to Greece 1967; Minister of Finance 1967-71, of Interior 1971-73; Prime Minister 1973-74; mem. Athens Lawyers' Union, American Judicature Soc., American Business Law Assn. *Publications:* State distributions and national economy, The problem of Causation in Maritime Law, Legal Terminology of the Greek-American Dictionary. *Address:* 63 Academias Street, Athens, Greece.

ANDRUS, Cecil D.; American politician; b. 25 Aug. 1931, Hood River, Ore.; s. of Hal S. and Dorothy (Johnson) Andrus; m. Carol M. May 1949; three d.; ed. Oregon State Univ.; served U.S. Navy 1951-55; mem. Idaho Senate 1961-66, 1960-70; State Gen. Man. Paul Revere Life Insurance Co. 1969-70; Gov. of Idaho 1971-77; chair. Nat. Govs. Conf. 1976; Sec. of Interior Jan. 1977-; Hon. LL.D. Gonzaga Univ., Spokane, Wash. 1975; Democrat. *Address:* Department of the Interior, C Street, between 18th and 19th Streets, N.W., Washington, D.C. 20240, U.S.A. (Office); 1805 North 21st Street, Boise, Idaho 83702, U.S.A. (Home).

ANDRZEJEWSKA, Teresa; M.ECON.; Polish politician; b. 1928, Wołkowysk; ed. Main School of Planning and Statistics, Warsaw. Worked in Voivodship Board of Railway Catering Establishments, Poznań 1950-59; Dir. of State Enterprise Dom Dziecka (Children's House), Poznań 1959-61; Chair. of Pres. of District Nat. Council, Poznań-Jeżyce 1961-64; Deputy Dir. of Enterprise for Installation-Assembling Works in Agric. Bldg., Poznań 1965-68; Chief of Trade Dept. in Voivodship Nat. Council, Poznań 1969-72; Deputy Minister of Internal Trade and Services 1972-78; Chairman of Chief Cttee. for Tourism July 1978-; mem. of Polish United Workers' Party (PZPR). *Address:* Główny Komitet Turystyki, ul. Liteswska 2/4, 00-581 Warsaw, Poland.

ANDRZEJEWSKI, Jerzy; Polish writer; b. 19 Aug. 1909, Warsaw; s. of late Jan Andrzejewski and Eugenia Glinojecka; m. Maria Abgarowicz 1942; one s. one d.; ed. Warsaw Univ.; literary debut 1932; underground activity during German occupation; Editor-in-Chief Przegląd Kulturalny (Cultural Review) 1952-54; Deputy to Seym 1952-57; mem. Polish Writers' Assn. 1936-; Order of Banner of Labour (1st Class) 1949. *Publications:* Novels: Ład serca (Harmony of the Heart) (Young Writers' Prize, Polish Acad. of Literature) 1939, Popioł i diament (Ashes and Diamonds) (Odrodzenie Award) 1948 (Złoty Kłos Award 1965), Ciemności kryją ziemię (Darkness Covers the Earth) 1957, Bramy Raju (The Gates of Paradise) 1961, Idzie skacząc po górach (He Cometh Leaping Upon the Mountains) 1963, Apelacja (The Appeal) 1967, Miazga (Mash) 1972, Teraz na ciebie zagłada 1976; stories: Drogi nieuniknione (The Inevitable Ways) 1937, Noc (Night) 1945, Złoty Lis (The Golden Fox) 1955, Niby Gaj (As If the Grove) 1961, Three Tales 1973, Książka dla Marcina (A Book for Martin—reminiscences)

1954, Swięto Winkelrieda (Winkelried's Day—play with J. Zagorski) 1945, Prometheus (play) 1972, Juz prawie nic 1976. *Leisure interests:* music, bridge. *Address:* Swierczewskiego 53/4, 03-402 Warsaw, Poland. *Telephone:* 19-82 61.

ANFINSEN, Christian Boehmer, PH.D.; American biochemist; b. 26 March 1916, Monessen, Pa.; s. of late Christian Boehmer Anfinsen and Sophie née Rasmussen; m. Florence Bernice Kenenger 1941 (divorced 1978); one s. two d.; ed. Swarthmore Coll., Univ. of Pennsylvania, Harvard Medical School. Asst. instructor in organic chem. Univ. of Pennsylvania 1938-39; Fellow, American Scandinavian Foundation, visiting investigator Carlsberg laboratory, Copenhagen, Denmark 1939-40; Fellow, Harvard Univ. 1941-43, Instructor in Biological Chem., Harvard Medical School 1943-45; Civilian with Office of Scientific Research and Devt. CMR 1944-46; Assoc. in Biological Chem., Harvard Medical School 1945-48; Senior Fellow, American Cancer Soc., Visiting Investigator, Medical Noble Inst. with Prof. Hugo Theorell 1947-48; Markle Scholar and Asst. Prof. Biological Chem., Harvard Medical School, also consultant in research anaesthesia, Mass. Gen. Hosp. 1948-50; Chief, Laboratory of Cellular Physiology, Nat. Heart Inst. 1950-52; Chief, Laboratory of Cellular Physiology and Metabolism, Nat. Heart Inst. 1952-62; Prof. Dept. of Biological Chem., Harvard Medical School 1962-63; Chief, Laboratory of Chemical Biology Nat. Inst. of Arthritis, Metabolism and Digestive Diseases 1963-; mem. Board of Govs., Weizmann Inst. of Science, Rehovot, Israel; mem. American Soc. of Biological Chemists (Pres. 1971-72), Nat. Acad. of Sciences, Royal Danish Acad.; Rockefeller Foundation Public Service Award 1954; Hon. D.Sc. (Swarthmore Coll.) 1965; Harvey Lecturer 1966; Hon. D.Sc. (Georgetown) 1967; Hon. D.Sc. (New York Medical Coll.) 1969; Hon. Fellow, Weizmann Inst. of Science 1969; EMBO Lecturer for Sweden 1970; Visiting Fellow, All Souls Coll. Oxford 1970; Jubilee Lecturer 1972; Hon. D.Sc. (Univ. of Pa.) 1973; Mathers Lectures (Indiana Univ.) 1974; Hon. D.Sc. (Gustavus Adolphus Coll.), Kempner Lectureship (Univ. of Texas, Galveston) 1975; Naff Lectures (Univ. of Kentucky), Hon. D.Sc. (Brandeis) 1977; Hon. D.Sc. (Providence Coll.) 1978; Nobel Prize for Chem. 1972. *Publications:* The Molecular Basis of Evolution 1959, numerous articles in learned journals on protein labelling, enzyme functions and properties, and allied subjects. *Leisure interests:* sailing, music. *Address:* National Institute for Arthritis and Metabolic Diseases, Bethesda, Md. 20014, U.S.A. (Office). *Telephone:* 301-496 5408 (Office).

ANGELINI, Arnaldo M.; Italian university professor in electrical and nuclear engineering; b. 2 Feb. 1909, Force, Ascoli Piceno Prov.; s. of Licinio and Anita Lucangeli; m. Livia Rossi 1937; two s. one d. Man. Dir., Gen. Man. Terni Co.; Gen. Man. ENEL 1963-73, Chair. 1973-79; Prof. Electrical Eng., Univ. of Rome, Dir. Electric Eng. Inst.; Hon. Prof., Polytechnic Inst. of New York 1975-; fmrly. Vice-Pres. Comitato Nazionale per le Ricerche Nucleari; mem. Council Italian Forum for Nuclear Energy (FIEN), Pres. 1959-60; mem. Steering Cttee. Comitato Nazionale per l'Energia Nucleare 1960-73; mem. Scientific and Technical Cttee. EURATOM, Pres. 1961, Vice-Pres. 1964; mem. del. to Conf. on Peaceful Uses of Nuclear Energy, Geneva 1955, 1958, 1964, 1971; Exec. Vice-Pres. World Energy Conf.; Chair. Gen. Assembly, Org. of Nuclear Energy Producers (OPEN) 1977-; Pres. Associazione Elettrotecnica ed Elettronica Italiana (AEI) 1959-61; Life mem. Inst. of Electrical and Electronic Eng.; Corresp. mem. Accad. Nazionale dei Lincei; Foreign Assoc., Nat. Acad. of Eng. of the U.S.A.; Fellow American Nuclear Soc.; mem. Soc. Française des Electriciens, and other socs.; Pugno Vanoni, Jona and Castellani Prizes, AEI. *Address:* 5 Via Francesco Coletti, 00191 Rome, Italy (Home).

ANGELIS, Gen. Odysseus; Greek army officer; b. 3 Feb 1912, Chalkis; s. of Miltiadis Angelis; unmarried; ed. Army Cadets Coll., Higher War Coll. and Nat. Defence Coll.; commissioned 1934; served during World War II in Albanian Campaign 1940-41, Middle East Campaign 1943-45, anti-communist campaign in Greece 1946-49; Chief of Army Gen. staff 1967-68; C.-in-C. Hellenic Armed Forces 1969-73; Vice-Pres. of Greece Aug.-Nov. 1973; remanded in custody Feb. 1975, sentenced to 20 years' imprisonment for high treason and insurrection Aug. 1975; Golden Medal of Gallantry and several other orders and awards.

ANGUIANO, Raúl; Mexican painter; b. 26 Feb. 1915, Guadalajara, Jalisco; s. of José Anguiano and Abigail V. de Anguiano; one s. two d.; m. 2nd Brigita Anderson 1977; studied under José Vizcarra and Ixca Farias; concerned in Modern Art movement, Mexico 1934; founder mem. Taller de Gráfica Popular; studied at Art Students' League, New York 1941; one-man exhbns. in Mexico, Paris 1952, 1965, 1967, San Francisco 1953-65, Havana 1956, Chile 1960, Moscow 1962, Rome 1965-67, Miami 1965, San Antonio (Texas) 1966, Quito 1971, Mexico City 1972, Palm Springs, Calif. 1974; has exhibited in collective exhbns. in London, Warsaw, Tokyo, Berlin, Prague, Peking, Lille, Los Angeles, Lugano, etc.; works include murals for the Hormona Laboratories, Onyx-Mex industries and the Nat. Museum of Anthropology, Mexico City; has completed series of works about lacandones of Lacandona Jungle; retrospective exhbn. Salón de la Plástica Mexicana, Mexico 1969; guest teacher, lecturer and invited to exhibit works at Univ. of W. Indies, Kingston, Jamaica 1970; painted mural at Olympia Hotel, Kingston; numerous prizes; decoration granted by Italian Govt. 1977. *Leisure interests:* music, reading, writing. *Address:* Anaxágoras 1326, Colonia Narvarte, Mexico 13, D.F. Mexico. *Telephone:* 575-07 56, 575-14 54.

ANGULO-IÑÍGUEZ, Diego; Spanish art historian; b. 18 July 1901, Valverde, Huelva; s. of Diego Angulo and Angela Iñíguez; m. Pilar Romero 1965; ed. Univs. of Seville, Madrid, Berlin; Prof. of History of Art, Granada Univ. 1925-26, Univ. of Seville 1927-40, Madrid Univ. 1940- (Emer. 1971-); Emer. Dir. Instituto de Arte Diego Velázquez, Museo del Prado; Dir. Real Academia de la Historia; mem. Real Academia de Bellas Artes de San Fernando. *Publications:* La Arquitectura Mudéjar Sevillana 1935, La Escultura en Andalucia (3 vols.) 1927-39, Planos de Monumentos de América (7 vols.) 1933-39, Historia del Arte Hispano Americano (3 vols.) 1945, Velázques 1947, Historia del Arte (2 vols.) 1953, Pintura del Renacimiento 1954, Pintura Madrileña Siglo XVII 1968, Pintura del Siglo XVII 1971, Corpus of Spanish Drawings 1975. *Leisure interests:* travel, country life. *Address:* Instituto Diego Velázquez, Medinaceli 4, Madrid 14, Spain.

ANICHKOV, Sergey Viktorovich; Soviet pharmacologist and physiologist; b. 20 Sept. 1892, St. Petersburg (Leningrad); s. of Victor Anichkov and Marie Tillot; m. Maria Petrovna Urasova 1930; four d.; ed. First Leningrad Medical Inst. Assoc., Asst. Prof. First Leningrad Medical Inst. 1922-24; Head of Chair, Leningrad Mil. Medical Acad. 1924-37; Prof. Kirov Mil. Medical Acad. 1937-44; Head of Chair, Second Leningrad Medical Inst. 1945-62; Head of Dept. of Inst. of Experimental Medicine, U.S.S.R. Acad. of Medical Sciences 1948; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1947-50, mem. 1950; U.S.S.R. rep. at World Pharmacological Council 1956; mem. CPSU 1962-; mem. Cen. Council U.S.S.R. Physiol. Soc.; Hon. Pres. All-Union Pharmacological Soc.; Hon. mem. Rome Medical Acad.; mem. Int. Brain Research Org.; Hon. Pres. Union of Pharmacologists 1966-; Hero of Socialist Labour 1967, Order of Lenin (twice), State Prize 1951, Lenin Prize 1976, etc.; Dr. h.c. Charles Univ., Prague, Helsinki Univ., Rostock Univ. *Publications:* Over 120 on pharmacology of endocrine glands, physiology and pharmacology of carotid haemoreceptors, reflectory dystrophy and its pharmacotherapy, pharmacology of nervous systems and new original neurotropic preparations (antiphiens), etc. *Leisure interest:* fishing. *Address:* Institute of Experimental Medicine, Acad. Pavlov Str., 12, Leningrad, U.S.S.R. (Office). *Telephone:* 34-54-47 (Office); 34-27-42 (Home).

ANIN, Patrick Dankwa, M.A., LL.B.; Ghanaian judge; b. 27 July 1928, Bekwai, Ashanti; m. Doris Marian Dadzie 1958; two s. two d.; ed. Achimota Coll., Selwyn Coll., Cambridge, and London School of Economics.; called to Bar, Middle Temple 1956, Called to Gold Coast Bar 1956; fmr. Dir. Bank of Ghana; mem. Electoral Comm. 1966-67; Commr. for Communications 1967-68, Commr. for External Affairs 1968-69; Justice of Appeal, Ghana Court of Appeal 1969–; Chair. Bribery and Corruption Comm. 1971-74; Chair. Council of Univ. of Ghana, Legon 1976-78; Justice of Appeal, Court of Appeal of The Gambia, Nov. 1978-. *Leisure interests:* reading, tennis. *Address:* Justice of Appeal's Chambers, Court of Appeal, Supreme Court, P.O. Box 119, Accra, Ghana.

ANISIMOV, Anatoliy Vasiliyevich; Soviet diplomatist; b. 17 March 1919, Stepanovo Village, Vologda Region; ed. Pokrovsky Pedagogical Inst. of Leningrad. Attaché, Soviet Embassy, Iran 1943-54; First Sec., Dept. for Near East and Middle East Countries, Ministry of Foreign Affairs 1954-56; Counsellor, Deputy Head of Dept. for Middle East Countries, Ministry of Foreign Affairs, 1956-68, 72-; Amb. to Jordan 1968-72; Badge of Honour. *Address:* Ministry of Foreign Affairs, Moscow, U.S.S.R.

ANKRAH, Gen. Joseph Arthur; Ghanaian army officer; b. 18 Aug. 1915, Accra; s. of Samuel P. K. Ankrah and Beatrice A. Quaynor; m. 1st Elizabeth Oyoe 1939, 2nd Felicia Kailey 1953, 3rd Mildred C. Akosua 1962; seven s. eleven d.; ed. Wesley Methodist School, Accra and Accra Acad.; comes from Ga tribe, S. Ghana; Warrant Officer II, Infantry and Staff, Second World War; commissioned 1947; Battalion Commdr., later Brigadier, Kasai Prov. Congo 1960-61, awarded Ghana Mil. Cross; Deputy Chief of Defence Staff, Ghana 1961-July 1965; Chief of Defence Staff and Chair. Nat. Liberation Council, Ghana, 1966-69; Officer Order of the Volta, Grand Cordon Most Venerable Order of Knighthood of the Pioneers

(Liberia). *Leisure interests:* sport, horse racing, gardening, reading. *Address:* c/o House D594/3 Asylum Down, Accra, Ghana. *Telephone:* Accra 24583.

ANNAN, Baron (Life Peer) cr. 1965, of Royal Burgh of Annan; **Noel Gilroy Annan,** O.B.E., M.A.; British university official; b. 25 Dec. 1916, London; s. of late James Gilroy Annan and Fannie Quinn; m. Gabriele Ullstein 1960; two d., ed. Stowe School, King's Coll., Cambridge.; served in War Office, War Cabinet Offices and Mil. Intelligence 1940-44, France and Germany 1944-46; Gen. Staff Officer, Political Division, British Control Comm. 1945-46; Fellow, King's Coll., Cambridge 1944-56, 1966, Asst. Tutor 1947, Lecturer in Politics 1948-66, Provost 1956-66; Provost of Univ. Coll., London 1966-78; Vice-Chancellor, Univ. of London 1978-; Gov. of Stowe School 1945-66, Queen Mary Coll. 1956-60; Senior Fellow, Eton Coll. 1956-66; mem. Gulbenkian Cttee. for Art in U.K. 1957-64, Chair. Educ. Cttee. 1971-; mem. Academic Planning Board, Univ. of East Anglia 1960; Chair. Academic Planning Board, Univ. of Essex 1962; mem. Academic Advisory Board Brunel Univ. 1964; mem. Public Schools Comm. 1966-70; Chair. Cttee. on Future of Broadcasting 1974-77; Trustee, British Museum 1963-, Nat. Gallery 1978-; Dir. Royal Opera House, Covent Garden 1966-78; F.R.Hist.S.; Fellow, Berkeley Coll., Yale 1963; Hon. Fellow, Univ. Coll., London 1968; Hon. D.Litt. York, (England), Ontario; D. Univ. Essex; Foreign Hon. mem. American Acad. of Arts and Sciences; Le Bas Prize 1948, James Tait Black Memorial Prize 1951. *Publications:* Leslie Stephen: His Thought and Character in Relation to His Time 1951, The Intellectual Aristocracy (in Studies in Social History, edited by J. H. Plumb) 1956, The Curious Strength of Positivism in English Political Thought 1959, Kipling's Place in the History of Ideas (in Kipling's Mind and Art) 1964, Roxburgh of Stowe 1965, Annan Report on the Future of Broadcasting 1977, and articles in Victorian Studies and other periodicals. *Leisure interest:* Mediterranean travel. *Address:* University of London, Senate House, Malet Street, London, WC1E 7HU, England. *Telephone:* 01-636 8000.

ANNE, H.R.H. The Princess, Mrs. Mark Phillips, G.C.V.O. (Anne Elizabeth Alice Louise); b. 15 Aug. 1950; d. of Queen Elizabeth II and Prince Philip, Duke of Edinburgh; m. Capt. Mark Anthony Peter Phillips 1973; one s., Peter Mark Andrew, b. 15 Nov. 1977; ed. Benenden School, Kent. Col.-in-Chief, 14th/20th King's Hussars, Worcs. and Sherwood Foresters Regt. (29th/45th Foot), 8th Canadian Hussars (Princess Louise's), Royal Corps of Signals, The Canadian Armed Forces Communications and Electronics Branch, The Royal Australian Corps of Signals, Royal New Zealand Corps of Signals; Royal New Zealand Nursing Corps, The Grey and Simcoe Foresters Militia; Chief Commdt., W.R.N.S.; Hon. Air Commodore, R.A.F. Lyneham; Pres.; W.R.N.S. Benevolent Trust, British Acad. of Film and Television Arts, Hunters' Improvement and Light Horse Breeding Soc., Save the Children Fund, Windsor Horse Trials, The Royal School for Daughters of Officers of the Royal Navy and Royal Marines (Haslemere); Patron, Assn. of Wrens, Riding for the Disabled Assn., Jersey Wildlife Preservation Fund, The Royal Corps of Signals Assn., The Royal Corps of Signals Inst., Breast Cancer Research Trust, The Army and Royal Artillery Hunter Trials, Glouc. and North Avon Fed. of Young Farmers' Clubs, Royal Port Moresby Soc. for the Prevention of Cruelty to Animals, Horse of the Year Ball, Benenden Ball, Save The Children Fund Action Group, Communications and Electronics Branch Inst.; Vice-Patron, British Show Jumping Assn.; Commdt.-in-Chief, St. John Ambulance and Nursing Cadets; Freeman of the City of London, of the Fishmongers' Co.; Hon. Liveryman, Farriers' Co.; Hon. Freeman, Farmers' Co., Loriners' Co.; Yeoman, Saddlers' Co.; Hon. mem., British Equine Veterinary Assn., Royal Yacht Squadron, Royal Thames Yacht Club; Life mem., Royal Naval Saddle Club; mem., Island Sailing Club; Visitor, Felixstowe Coll.; official visits abroad to the 14th/20th King's Hussars in Fed. Repub. of Germany 1969, 1975, to see the work of the Save the Children Fund in Kenya 1971, to the 2,500th anniversary celebrations of the Iranian monarchy 1971, to 14th/20th King's Hussars and to see the work of the Save the Children Fund, Hong Kong 1971, to S.E. Asia 1972, Munich 1972, Yugoslavia 1972, Ethiopia and the Sudan 1973, to visit Worcs. and Sherwood Foresters Regt. in Berlin 1973, in Hereford, Fed. Repub. of Germany 1974, to Canada 1974, to Australia 1975, to U.S.A. 1977; has accompanied the Queen and The Duke of Edinburgh on several State Visits; has taken part in numerous equestrian competitions including Montreal Olympics 1976, Horse of the Year Show, Wembley and Badminton Horse Trials; winner of Raleigh Trophy 1971 and Silver Medal 1975 in Individual European Three Day Event; Sportswoman of the Year, Sports Writers' Assn., Daily Express, World of Sport, BBC Sports Personality 1971. *Address:* Buckingham Palace, London, S.W.1, England.

ANNENBERG, Walter H.; American publisher and diplomatist; b. 13 March 1908, Milwaukee, Wis.; s. of M. L. Annenberg; m. 1st Veronica Dunkelman (divorced), one d.; m. 2nd Leonore Cohn 1951; Pres. Triangle Publications Inc., Pa.; publishes TV Guide; Pres. M. L. Annenberg Foundation, Annenberg Fund; Amb. to U.K. 1969-75; Founder of Annenberg School of Communications at Univ. of Pa. and Univ. of S. Calif.; Trustee Nat. Trust for Historic Preservation, Univ. of Pa.; Emer. Trustee, Eisenhower Medical Center; several hon. degrees; Officier, Légion d'honneur; Commdr., Orders of Lion of Finland, Crown of Italy; Commdr. Order of Merit (Italy); Hon. K.B.E. *Address:* 250 King of Prussia Road, Radnor, Pa. 19088 (Office); Llanfair Road, Wynnewood, Pa. 19096, U.S.A. (Home).

ANNENKOV, Nikolay Aleksandrovich; Soviet theatre and film actor; b. 21 Sept. 1899, Inzhavino, Tambov region; s. of Alexander Ivanovich Kokin and Anna Nikolaevna Kokina; m. Tatiana Mitrofanovna Yakushenko; two d.; ed. Higher Theatre School of Maly Theatre, Moscow; Actor of Maly Theatre 1924-; mem. CPSU 1942-; People's Artist of U.S.S.R. 1960; State Prize (three times); Order of Lenin; other decorations. *Main roles include:* Mitya (Poverty is no Vice by A.N. Ostrovsky), Cherkun (Barbarians by Maxim Gorky), Sintsov (Enemies by Gorky), Nil (Lower Middle Classes by Gorky), Plakun (The Eternal Source by Zorin), Ognev (Front by A. Korneichuk), Novikov (The Palace by Alyoshin), Vasin (Russian People by Simonov), Basor (The Summer Residents by Gorky), Matias Klausen (Before the Sun Sets by Hauptmann), Ikhmenev (The Oppressed and Insulted, after Dostoyevsky). *Leisure interests:* reading, attending sports competitions. *Address:* Maly Theatre, 1/6 Ploschad Sverdlova, Moscow, U.S.S.R. *Telephone:* 229-5215.

ANNIGONI, Pietro; Italian painter; b. 7 June 1910, Milan; m. 1st Anna Maggini 1937 (died 1968); 2nd Rosella Segreto 1976; one s. one d.; ed. Accademia di Belle Arti, Florence; first exhbn. held in Florence 1932; exhbn. Milan 1936; helped found group of modern realistic painting, which exhibited in Milan 1947, and subsequently in Rome and Florence; exhbns. Wildenstein's (London 1950, New York 1957), Paris, London 1954; retrospective exhbn. Brooklyn Museum, N.Y. 1969, Calif. Palace of Legion of Honor, San Francisco 1969, Galleria Levi, Milan 1971; mem. Accad. di S. Luca, Rome, Arti del Disegno, Florence; *Works include:* Portraits of The Duchess of Devonshire, Miss Margaret Rawlings, Lord and Lady Howard de Walden, Dame Margot Fonteyn; Deposition of Christ with Dominican Saints 1936-40, Say You This is Man? 1953, Way to the Sermon on the Mount 1954, Portrait of H.M. Queen Elizabeth II 1955, Portrait of H.R.H. the Prince Philip, Duke of Edinburgh 1957, Portrait of H.R.H. Princess Margaret 1958, Life 1961, Portrait of President Kennedy 1961; fresco Crucifix in S. Martino Castagno, Florence; Portrait of Pope John XXIII; altarpiece, Church of Claretian Fathers, Hayes, Middlesex, The Immaculate Heart of Mary 1962; Portrait of H.M. Queen Elizabeth, the Queen Mother 1963; St. Joseph, altarpiece Church of S. Lorenzo, Florence 1964; Resurrection fresco in Church of S. Michele, Ponte Buggianese (Montecatini) 1967, Apocalypse fresco 1973, The Last Supper 1975, St. Benedict, Church of Montecassino altarpiece 1975; Portraits of Shah of Iran and Queen Farah Diba 1968; second portrait of H.M. Queen Elizabeth II for Nat. Portrait Gallery, London 1970; Il Misericordioso for Venerabile Arciconfraternità della Misericordia, Florence 1970; portrait of H.R.H. the Duchess of Kent for Univ. of Leeds 1971; The Golden Age (frescos), Sala Pontormo, at Wethersfield House, Amenia, New York 1972-73. *Publication:* An Artist's Life. *Leisure interest:* sailing. *Address:* Borgo degli Albizzi 8, Florence, Italy. *Telephone:* 212438.

ANNORKWEI II, Nene, Q.M.C.; Ghanaian chief; b. 1900; ed. Wesleyan School, Accra; entered Nigerian civil service as Treasury Clerk 1919; transferred to Gold Coast 1930; promoted to Accountant 1944; elected Manche of Prampram 1948; appointed Treas. of Provincial Council, Eastern Province, and mem. Council's Standing Cttee. 1948; later Pres. Joint Provincial Council of Chiefs (representing Eastern and Western Regions); Chair. Ghana Museum and Monuments Board 1957-; Queen's Medal for Chiefs 1956. *Address:* Manche of Prampram, Prampram, Ghana.

ANOUILH, Jean Marie Lucien Pierre; French playwright; b. 23 June 1910, Bordeaux; s. of François Anouilh and Marie-Magdeleine Soulue; m. Nicole Lançon 1953; one s. two d.; ed. Collège Chaptal and Univ. of Paris; Cino-del-Duca Prize 1970. *Plays include:* L'ermine 1934, Y'avait un prisonnier 1935, Le voyageur sans bagage 1937, Le bal des voleurs (Thieves' Carnival) 1938, La sauvage (Restless Heart) 1938, Cavalcade d'amour 1941, Le rendez-vous de Senlis 1942, Léocadia (Time Remembered) 1942, Euridice (Point of Departure) 1942, Oreste 1945, Antigone 1946, Roméo et Juliette (Fading Mansion) 1946, Medée 1946, L'invitation au châ-

teau (Ring Round the Moon) 1948, Ardèle ou la Marguerite 1949, La répétition, ou l'amour puni 1950, Colombe 1950, La valse des toréadors (Waltz of the Toreadors, film 1962) 1952, L'alouette (The Lark) 1953, Ornifle 1955, Pauvre Bitos (Poor Bitos) 1956, L'hurluberlu 1958, Beckett ou l'honneur de Dieu (Becket, film 1964) 1959, Foire d'empoigne 1960, La grotte 1961, L'orchestre 1962, Monsieur Barnett (TV play), Le boulanger, la boulangère et le petit mitron 1968, Cher Antoine 1969, Ne réveillez pas madame 1970, Tu étais si gentil quand tu étais petit 1974, L'arrestation 1975, Le scenario 1976, Chers zoiseaux 1976, Vive Henri IV 1977. *Films:* directed Le voyageur sans bagage 1943; screenplay Deux sous de violettes 1951; adapted Madame de 1949, La mort de belle 1960, La nuit des rois 1961, Richard III 1964. *Address:* c/o Editions de la Table Ronde, 40 rue du Bac, Paris 7e, France.

ANSARI, Homayoun J., M.S.; Iranian civil servant; b. 20 Dec. 1929, Isfahan; m. Leily Sheibani 1962; one s. one d.; ed. in Iran and U.S.A. Sr. Exploration Geologist, Nat. Iranian Oil Co. 1956-59, Head of Studies and Co-ordination, Exploration and Production Dept. 1959-62; Dir.-Gen. Petroleum Affairs, Ministry of Finance 1962-64; Chair. and Man. Dir. Telephone Co. of Iran 1964-71; Chair. and Man. Dir. Telecommunication Co. of Iran 1971-74; Minister of Housing and Urban Devt. 1974-77; Chair. Board Iran Pan American Oil Co., Teheran. *Publications:* several scientific papers on petroleum exploration.

ANSARI, Dr. Hooshang, M.A.; Iranian politician and economist; b. 1928; ed. in U.K., U.S.A. and Japan.; fmr. Press, Commercial and Econ. Attaché, Japan; Chief, Supervisory Comm., Public Supplies; mem. High Council, Iranian Aviation; Technical Under-Sec., Ministry of Commerce; Special Amb., African Countries; Amb. to Pakistan and Ceylon; Minister of Information; Amb. to U.S.A.; Minister of Economy 1969-77; and of Finance 1974-77; Chair. Iranian Nat. Oil Co. 1977-78. *Address:* Iranian National Oil Company, P.O. Box 1863, Teheran, Iran.

ANSELL, Graham Keith, B.A. (HONS.); New Zealand diplomatist; b. 2 March 1931, Lower Hutt, New Zealand; m. Mary Diana Wilson 1953; three s. one d.; ed. Horowhenua Coll., Palmerston North Boys' School and Victoria Univ., Wellington. Dept. of Industries and Commerce 1948-51, of External Affairs 1951-56; Second Sec., High Comm. to Ottawa 1956-59; Asst., then Acting Head, Econ. and Social Affairs Div., Dept. of External Affairs 1959-62; Deputy High Commr., Apia 1962-64, Canberra 1964-68; Head, Econ. Div., Ministry of Foreign Affairs 1968-71; Minister, N.Z. Embassy, Tokyo 1971-73; High Commr. in Fiji 1973-76, in Nauru 1974-76; Amb. to Belgium, Luxembourg and the European Communities (also accred. to Denmark) Feb. 1977-. *Leisure interests:* music, walking. *Address:* New Zealand Embassy, blvd. du Régent 47-48, 1000 Brussels; (Residence) Avenue Mostinck 16, 1150 Woluwe-St. Pierre, Brussels, Belgium (Residence).

ANSELMI, Tina; Italian politician; b. 25 March 1927, Castelfranco Veneto; worked for the resistance with Cesare Battisti Brigade; mem. Democrazia Cristiana (DC) 1944-; concerned mainly with questions of family affairs and industrial relations; fmr. Vice-Pres. European Feminist Union; mem. Parl. 1968-; fmr. Under-sec. in Ministry of Labour; Minister of Labour 1976-78, of Health March 1978-. *Address:* Ministry of Health, Via Flaira 6, Rome (Office); Castelfranco Veneto, Italy (Home).

ANSETT, Sir Reginald Myles, K.B.E.; Australian aviation, road transport and television company administrator; b. 13 Feb. 1909, Inglewood, Victoria; s. of C. J. Ansett; m. Joan McAuliffe Adams 1944; three d. Chair. and Man. Dir. Ansett Transport Industries Ltd. and subsidiaries, Ansett Transport Industries (Operations) Pty. Ltd. (Trading as Ansett Airlines of Australia, Ansett Airlines of New South Wales, Ansett Airlines of S. Australia, Ansett Freight Express, Ansett Pioneer, Ansett Wridgways, Albury Border Transport, Pyrometric Service and Supplies, Aviation Engineering Supplies, Ansett Television Films, Barrier Reef Islands, MacRobertson Miller Airline Services, Provincial Motors, Ansett Motors, N.I.C. Instrument Co., Ansett General Aviation, Ansair, Mildura Bus Line, Ansett Hotels, P.E. Power (Wagga) Transport, Kalamunda Transport, Cooper Airmotive Australia), Ansett Niugini Enterprises Ltd., Ansett Hotels (P. and N.G.) Pty. Ltd., Austarama Television Pty. Ltd., Universal Telecasters Queensland Ltd., Ansett Industries Australia Ltd. (U.S.A.), Ansett Pioneer Ltd. (N.Z.), Sist Constructions Pty, Ltd., Transport Industries Insurance Co. Ltd., Ansett Brewarrana Holdings Pty. Ltd.; Dir. Diners Club Ltd., Biro Bic (Australia) Pty. Ltd., Associated Securities Ltd. *Leisure interests:* horse racing, game shooting. *Address:* 489 Swanston Street, Melbourne, Victoria, Australia. *Telephone:* 3453144.

ANSIAUX, Hubert-Jacques-Nicolas; Belgian banker; b. 24 Nov. 1908, Ixelles; s. of Jacques N. C. Ansiaux and Eva H. M. Olislager; m. Geneviève Mayer-Astruc; one s. one d.; ed. Univ. Libre de Bruxelles. Dir. Nat. Bank of Belgium 1941-54, Deputy Gov. 1954-57, Gov. 1957-71; Chair. Inst. Belgo-Luxembourgeois du Change 1957-; Dir. Bank for Int. Settlements 1957-; Gov. for Belgium, Int. Monetary Fund 1957-; Chair. Conseil des Institutions publiques de Crédit 1957-; mem. Conseil général de la Caisse Générale d'Epargne et de Retraite 1957-; Chair. Conseil d'Admin. de l'Office Central de la Petite Epargne 1957-; mem. Man. Board and Chair. Standing Finance Cttee. of Carnegie Hero Fund 1957-; mem. Conseil d'Administration de l'Université Libre de Bruxelles 1959-; First Vice-Chair. Nat. Council on Scientific Policy 1959-; Alt. Gov. for Belgium of Int. Bank for Reconstruction and Devt., Int. Finance Corpn. 1960-; mem. Man. Board Fondation Nationale pour le Financement de la Recherche Scientifique 1960-; Chair. Comité Consultatif des Finances de la Fondation Universitaire et du Fonds Nat. de la Recherche Scientifique; Chair. Cttee. of Govs. of Central Banks of European Econ. Community; Officer Order of Leopold and Grand Officer Order of Crown (Belgium) and decorations from Netherlands, Luxembourg, Syria, Italy, Greece, France, Thailand, Great Britain and U.S.A. *Address:* Le Bois Sauvage, 158 avenue Circulaire, B-1180 Brussels, Belgium (Home). *Telephone:* 02/74-58-93.

ANSPACH, Herbert K., B.S.M.E., D.IUR.; American business executive; b. 3 Sept. 1926, Ada, Ohio; s. of Eldred W. and Della (Kephart) Anspach; m. Elizabeth 1952; one d.; ed. Oberlin Coll., Ohio, Univ. of Wisconsin, Univ. of Michigan.; served as apprentice seaman, U.S. Navy 1944, ensign 1946; Devt. Engineer, goodyear tire and Rubber 1947; Labor Relations Rep., Kaiser Motors, Willow Run, Mich. 1953, Supervisor, Industrial Relations, Kaiser Motors, Shadyside, Ohio 1954; admitted to State Bar of Mich. 1953, of Ohio 1954; Patent Attorney, U.S. Dept. of Commerce 1954; Patent Attorney, Whirlpool Corpn. 1955, Dir. Patent Section 1957, Asst. Gen. Counsel 1959, Asst. Sec. and Asst. Gen. Counsel 1961, Vice-Pres., Personnel 1967, Pres. and Chief Operating Officer 1977-; Pres. and Chief Operating Officer, Inglis Ltd., Canada 1975, Chair. of Board 1976; mem. Board Whirlpool Corpn., Inglis Ltd., Heil-Quaker Corpn.; mem. American Bar Assn., State Bar of Mich., American Patent Law Assn., Berrien County (Mich.) Bar Assn. *Address:* Whirlpool Corporation, Administrative Center, Benton Harbor, Mich. 49022, U.S.A. *Telephone:* 616-926-3101.

ANSQUER, Vincent, LIC. EN DROIT; French politician; b. 11 Jan. 1925, Treize-Sertiers, Vendée; s. of Vincent Ansquer and Berthe Ripoche; m. Monique Chaudière 1954; two d.; ed. Coll. St.-Stanislas, Nantes, Ecole Nat. de la France d'Outre-mer.; with overseas Admin. 1947; commercial activity in Guinea 1948-52, in France 1952-62; mem. Jeune Chambre Economique, la Roche sur Yon, Consular del., Chamber of Commerce 1952-62; mem. Parl. 1962-; Vice-Pres. Parl. Finance Comm. 1963-; Rapporteur du Budget, Commissariat au Plan, Dél. à l'Aménagement du Territoire et à l'Action Régionale 1963-; Mayor of La Bruffière 1965-; Conseiller Général de la Vendée 1969-; mem. Govt. Group on Property Laws 1973; Pres. Regional Council for the Loire 1974-, Rapporteur Général du Budget; Minister of Commerce 1974-76, of Quality of Life 1976-77; mem. European Parl.; Pres. Parl. Assn. of Small and Medium Enterprises 1972-73; Pres. UDR for Vendée 1964-, Deputy Vice-Pres. UDR Group, mem. Exec. Bureau; Deputy Vice-Pres. RPR Group 1978-Dir. La Vendée Libre, Espaces. *Address:* 6 rue du Doçteur Trastour, 85 Montaigu, France (Home).

ANTES, Horst; German painter and sculptor; b. 28 Oct. 1936, Heppenheim a.d.B.; s. of Valentin Antes and Erika Antes; m. Dorothea Grossmann 1961; one s. one d.; ed. State Acad. of Fine Arts, Karlsruhe; worked in Florence, then Rome; Prof. at State Acad. of Fine Arts, Karlsruhe 1965-71; mem. Acad. der Künste, Berlin, now living in Karlsruhe and Tuscany, Italy; UNESCO Prize, Biennale, Venice 1933; Villa Romana Prize, Florence 1962; Villa Massimo Prize, Rome 1963. One-man shows: Troisième Biennale de Paris, Museum Ulm, Städtische Galerie Munich 1964; Gallery Stangl Munich 1965, 1968, 1972, 1975; Gimpel and Hanover Gallery, Zürich and London 1967, 1970, 1973, 1976; Lefèbre Gallery, New York 1967, 1969, 1972, 1974, 1976, 1978; 23rd Biennale Venice 1966; 10th Biennale São Paulo 1969, Staatliche Kunsthalle Baden-Baden, Kunsthalle Bern, Kunsthalle Bremen, Frankfurter Kunstverein 1971-72; Badischer Kunstverein Karlsruhe 1978. Group exhibitions: Pittsburgh International Exhibition 1961, 1964, 1970, 1977; Dokumenta, Kassel 1964, 1968 1977; Europalia, Brussels 1977. Catalogues: Catalog of Etchings 1962-66 (G. Gercken) 1968, Catalog of Books (W. Euler) 1968, Catalog of Steel Sculptures (H. G. Sperlich) 1976, Catalog of Lithographs (B. Lutze) 1976. *Address:* Hohenbergstrasse 11, 7500 Karlsruhe-41 (Wolfartsweier), Federal Republic of Germany. *Telephone:* (0271) 491621.

ANTHONY, Rt. Hon. (John) Douglas, P.C.; australian farmer and politician; b. 31 Dec. 1929, Murwillumbah; s. of Hubert Lawrence and Jessie (née Stirling) Anthony; m. Margot Macdonald

Budd 1957; two s. one d.; ed. Murwillumbah High School, The King's School, Paramatta, and Queensland Agricultural Coll.; mem. House of Reps. 1957-, Exec. Council 1963-72, 1975-, Minister for the Interior 1964-67, of Primary Industry 1967-71, for Trade and Industry 1971-72, for Overseas Trade 1975-77, for Minerals and Energy Nov.-Dec. 1975, for Nat. Resources 1975-77, for Trade and Resources Dec. 1977-; Deputy Prime Minister Feb. 1971-Dec. 1972, Nov. 1975-; Deputy Leader Nat. Country Party of Australia 1966-71, Leader 1971-. *Leisure interests:* golf, tennis, swimming. *Address:* Parliament House, Canberra, A.C.T., Australia. *Telephone:* Canberra 733296.

ANTOÑANZAS, Juan Miguel, D.ENG.; Spanish engineer and business executive; b. 4 Oct. 1932, San Sebastián; s. of Adolfo and Ana Pérez Egea Antoñanzas; m. Pilar Toledo 1957; eight s. two d.; ed. Colegio del Pilar, Madrid, Madrid Univ. Commercial Gen. Man., Barreiros 1959-62; Operations Gen. Man., Barreiros-Chrysler 1962-69; Gen. Man. Marconi Española (ITT) 1969-74; Asst. to Pres. Instituto Nacional de Industria 1974-75, Chair. and Exec. Pres. 1975-77; Chair. and Exec. Pres., SEAT, S.A. 1977-; dîr of numerous corpns.; Victor de Plata; Gran Cruz del Mérito Militar; Gran Cruz de Mauritania. *Leisure interests:* reading, art, theatre, outdoor living. *Address:* SEAT, S.A., Avenida del Generalisimo 146, Madrid-16; Doctor Arce, 20, Madrid-2, Spain (Home). *Telephone:* 2-15-31-40 (Office); 4-11-24-67 (Home).

ANTONIO (Antonia Ruiz Soler); Spanish dancer; b. 4 Nov. 1921, Seville; s. of Francisco and Maria Dolores Soler.; danced with Rosario under name Los Chavalillos Sevillanos, later Rosario and Antonia until 1952; with own company, Antonio, Ballet Español 1952- and Antonio y sus Ballets de Madrid 1964; Cross of Isabel la Católica; Gold Medal of Swedish Dance Acad.; Medal of Ministry of Information 1963; Cross of Commdr. of Civil Merit; Gold Plate of Spanish Artists Syndicate; Silver Plate of Ministry of Information to First Dancer of Spain; Medal of Work and numerous other medals and decorations. *Address:* Coslada 7, Madrid, Spain. *Telephone:* Madrid 256-24-01.

ANTONIONI, Michelangelo, L. ECON. and COMM.; Italian film director; b. 29 Sept. 1912; ed. Univ. of Bologna. Film critic Corriere Padano and L'Italia Libera; City of Munich Prize 1968. *Films:* Gente del Po 1943-47, Amorosa Menzogna 1949, N.U. 1948, Sette Canne un Vestito, La Villa dei Mostri, Superstizione 1949 (documentaries); Cronaca di un Amore 1950, La Signora Senza Camelie 1952-53, I Vinti 1952, Amore in Città 1953, Le Amiche 1955, Il Grido 1957, L'Avventura 1959, La Notte 1961 (Silver Bear, Berlin Film Festival 1961), L'Eclisse 1962, Il Deserto Rosso 1964 (Golden Lion, XXV Venice Film Festival 1964), Blow Up 1966 (Golden Palm, Cannes Film Festival 1967), Zabriskie Point 1970, Chung Kuo-China 1972, The Passenger 1974. *Address:* Via Vincenzo Tiberio 18, Rome, Italy.

ANTONIU, Costache; Romanian actor; b. 26 Feb. 1900, Tigăneşti, Iaşi county; ed. Iaşi Coll. of Dramatic Art. Actor in provincial theatres until 1935; mem. Romanian Nat. Theatre Co., Bucharest 1935-; Rector and Prof. Theatre Inst. "I.L. Caragiale" 1954-70; Pres. Artistes' Assen.; People's Artiste; notable roles in Les fourberies de Scapin (Molière), Uncle Vanya (Chekhov), O scrisoare pierdută and Conu Leonida (Caragiale), Titanic Vals (Muşatescu), etc.; film roles in Darclée, Pădurea spînzuraţilor (The Forest of the Hanged), Vacanţă la Mare (Holiday at the seaside), Străinul (The Stranger). *Publication:* From the Past of the Romanian Theatre (memoirs) 1953. *Address:* Asociaţia oamenilor de artă, Str. Filimon Sîrbu 16, Bucharest, Romania. *Telephone:* 13-44-99.

ANTONIY, Metropolitan Anatoly Melnikov, D.THEOL.; Russian ecclesiastic; b. 1924, Moscow; ed. Moscow Theol. Inst., Moscow Theol. Acad.; ordained Russian Orthodox Priest 1950; Asst. Rector, Odessa Theol. Seminary 1950-52, Saratov Theol. Seminary 1952-56; elevated to rank of Archimandrite 1956; Rector, Minsk Theol. Seminary and Dean, Gyrovitsi Dormition Monastery 1956-63; Rector, Odessa Theol. Seminary 1963-65; Bishop of Belgorod-Dnestrovsky, Vicar of Odessa Diocese 1964; Bishop of Minsk 1965, Archbishop of Minsk 1965, Metropolitan of Minsk and Byelorussia 1975-78; Editor, The Theological Magazine; Hon. mem. Moscow Theol. Acad. *Publications:* Pastoral Observance according to St. John Chrysostom 1950, The Cyrovitsi Monastery in the History of Western Russian Dioceses 1470-1956 1963, publs. in theol. journals. *Leisure interests:* scientific and theological books. *Address:* Obvodny 17, Leningrad, C-167, U.S.S.R.

ANTONOV, Aleksey Konstantinovich; Soviet politician; b. 8 June 1912; ed. Leningrad Polytechnic Inst. Engineer, later Chief Factory Engineer 1935-37; econ. work, Leningrad Regional Econ. Cttee. 1957-59, Deputy Chair. Leningrad Regional Econ. Cttee. 1959-61, Chair. 1961-65; mem. CPSU 1940-; Cand. mem. Cen. Cttee. of CPSU 1961-72, mem. 1972-; Minister of Electro-Tech. Industry (U.S.S.R.) 1965-; Deputy to U.S.S.R. Supreme Soviet 1962-; U.S.S.R. State Prize, Order of Lenin (twice) and other decorations. *Address:* Ministry of Electro-Technical Industry, 12 Bolshaya Gruzinskaya ulitsa, Moscow, U.S.S.R.

ANTONOV, Olyeg Konstantinovich, D.SC.; Soviet aircraft designer; b. 7 Feb. 1906, Troitsry, Moscow Region; ed. Leningrad Polytechnical Inst.; mem. CPSU 1945-; Head Experimental Design Dept. 1946-; Designer-Gen. for Aircraft Industry 1962-; gliders and aeroplanes designed under his direction include AN-2, AN-10, AN-12, AN-14, AN-22 (ANTEI), AN-24; Corresp. mem. Ukrainian Acad. of Sciences 1955-68, Academician 1967-; Deputy to Supreme Soviet of U.S.S.R. 1958-66; mem. Comm. for Transport, Soviet of the Union; State Prize 1952; Lenin Prize 1962; Hero of Socialist Labour 1966; Order of Lenin (twice); "Hammer and Sickle" Gold Medal; other decorations. *Address:* Ministry of Aircraft Industry, Moscow, U.S.S.R.

ANTONOV, Sergey Fyodorovich; Soviet engineer, diplomatist and politician; b. 1911; ed. Leningrad Inst. of Engineers for Dairy Products Industry.; worked fmrly. in agencies and ministries of meat and milk industry; Minister of Milk and Dairy Products Industry 1954-57; Envoy-Counsellor, Embassy to People's Repub. of China 1958-60; Amb. to Afghanistan 1960-65; Minister of Meat and Milk Industry 1965-; Deputy U.S.S.R. Supreme Soviet 1966-; mem. Central Auditory Comm. CPSU 1966-; mem. Cen. Cttee. CPSU 1976-. *Address:* Ministry of Meat and Milk Industry, Moscow, U.S.S.R.

ANTUNOVIC, Rista; Yugoslav politician; b. 25 June 1917; ed. Belgrade Univ.; fmr. Sec. District Cttee. Yugoslav Communist Youth Fed.; fmr. mem. C.P. District Cttee. for Leskovac; mem. Communist Party 1940-; a leader of liberation movement in S. Serbia, Second World War; later Sec. C.P. District Cttees, for Vranje and Leskovac; Commdr. First Div. Nat. Liberation Army, S. Serbia; mem. Cen. Cttee., C.P. of Serbia 1945-, mem. Exec. Cttee. of Cen. Cttee. 1948–, later Sec. City Cttee. for Belgrade, later org. Sec. Cen. Cttee.; mem. Cen. Cttee., Yugoslav C.P. 1952-; also Minister of Trade and Minister of Agric. for Serbia and mem. Exec. Council for Serbia; mem. Fed. Assembly 1945-, later mem. Fed. Exec. Council and mem. Fed. Chamber; decorations include Order of People's Hero, Order of Nat. Liberation, Order of Repub. with Gold Wreath, Partisan Memorial Order. *Address:* c/o Federal Executive Council, Belgrade, Yugoslavia.

ANWAR, Mohamed Samih; Egyptian diplomatist; b. 10 Dec. 1924, Cairo; ed. Univ. of Cairo. Ministry of Justice 1946-54; First Sec. Ministry of Foreign Affairs 1954; served Embassies in U.S.S.R. 1957-63, U.K. 1963-66; Amb. to Kuwait 1966-68; Under-Sec. Ministry of Foreign Affairs 1968-70; Amb. to Iran 1970-74, to U.K. Oct. 1975-; Order of the Repub. 2nd Class 1958, Order of Merit 1st Class 1968, Order of Homayoun 1st Class (Iran) 1974, Order of the Flag (Yugoslavia) 1970. *Address:* Egyptian Embassy, 26 South Street, London, W1Y 6DD, England. *Telephone:* 01-499 2401.

ANWAR SANI, Chaidir; Indonesian diplomatist; b. 19 Feb. 1918, Padang; m.; six c.; ed. Univ. of Leyden, Netherlands. First Sec., Indonesian Embassy, Paris 1950-52; Ministry of Foreign Affairs, Djakarta, Chief Asian Div. 1952-55, Deputy Head Asian and Pacific Directorate 1957-60, Head Directorate of Int. Orgs. 1965-66, Chef de Cabinet 1966 and Dir.-Gen. of Political Affairs 1966-70; Counsellor, Embassy, Cairo 1955 and Peking 1955-57; Minister Counsellor, Embassy, New Delhi 1960-64; Amb. to Belgium and Luxembourg and Head Indonesian Mission to the EEC 1970-72; Perm. Rep. to UN 1972-; Amb. to Trinidad and Tobago 1974-, to the Bahamas 1977-. *Address:* Permanent Mission of Indonesia to United Nations, 733 Third Avenue, 11th Floor, New York, N.Y. 10017, U.S.A.

AOUSSOU, Koffi; Ivory Coast public offical; b. 1924, Yamoussokro; ed. Ecole Spéciale des Travaux Publics, Paris; fmrly. attached to Office of Public Works, Abidjan; subsequently Chef de Cabinet to the Minister of Public Works, then Sec. of State for Industry and the Plan; fmr. Amb. to Italy, to Belgium, Netherlands, Luxembourg and EEC; Pres., Autorité pour l'Aménagement de la Vallée du Bandama 1969; Pres. Air Afrique 1973-; mem. Exec. Cttee. IATA 1973. *Address:* Air Afrique, Avenue L. Barthe, B.P. 21017, Abidjan, Ivory Coast.

APEL, Hans Eberhard, DR.RER.POL.; German economist and politician; b. 25 Feb. 1932, Hamburg; m. Ingrid Schwingel 1956; two d.; ed. Hamburg Univ. Apprentice, Hamburg export and import business 1951-54; Sec. Socialist Group in European Parl. 1958-61, Head, Econ., Finance and Transport Dept. 1962-65; mem. Bundestag 1965-, Chair. Transport Cttee. 1969-72; Deputy Chair. Social Democratic Group in Bundestag 1969-72; mem. Nat. Exec. Social-Democratic Party (SPD) 1970-; Parl. Sec. of State, Fed. Ministry

of Foreign Affairs 1972-74; Fed. Minister of Finance 1974-78, of Defence Feb. 1978-. *Publications:* Edwin Cannan und seine Schüler 1961, Raumordnung in der Bundesrepublik 1964, Europas Neue Grenzen 1964, Der Deutsche Parlamentarismus 1968, Bonn, den . . . Tagebuch eines Abgeordneten 1972. *Leisure interests:* sailing, soccer. *Address:* Bundesministerium der Verteidigung, P.O. Box 1328, 5300 Bonn, Federal Republic of Germany.

APEL, Willi, DR.PHIL.; American (b. German) musicologist; b. 1893, Konitz, W. Prussia (now Chojnice, Poland); s. of Max and Ida Apel (née Schoenlank); m. Ursula Siemering 1928; ed. Univs. of Bonn, Munich, Berlin. Piano studies with Leonid Kreutzer, Edwin Fischer; lecturer on music 1926-36; went to U.S.A. 1936; taught at Longy School of Music 1936-43, Harvard Univ. and Radcliffe Coll. 1938-42, Boston Center for Adult Education 1937-50; Prof. of Music, Indiana Univ. 1950-63, Emeritus Prof. 1964-; Fellow, Medieval Acad. of America; Gold Medal, Monteverdi Festival, Venice 1968. *Publications:* The Notation of Polyphonic Music 800-1600 1942, Harvard Dictionary of Music 1944 (rev. 1969), Historical Anthology of Music (with A. T. Davison, 2 vols.) 1946, 1950, Masters of the Keyboard 1947, French Secular Music of the Late 14th Century 1950, Gregorian Chant 1958, Harvard Brief Dictionary of Music 1960, Geschichte der Orgel- und Klaviermusik bis 1700 1967, French Secular Compositions of the 14th Century, 3 vols. 1969-72, Keyboard Music of the 14th and 15th Centuries 1963, Marco Facoli, Collected Works 1963, Constanzo Antegnati, L'Antegnata Intravolatura 1963, Spanish Organ Masters after Antonio de Cabezon 1967, Pieter Cornet, Collected Keyboard Works 1969, The Tablature of Celle 1971, Delphin Strunck and Peter Mohrhardt, Original Compositions for Organ 1973, Joseph Jimenez, Collected Organ Compositions 1975. *Address:* Franz-Joseph-Strasse 7A, Munich 40, Federal Republic of Germany. *Telephone:* 341844.

APFALTER, Heribert Felix; Austrian business executive; b. 22 Sept. 1925, Pregarten; s. of Felix and Leopoldine Apfalter; m. Hermine Burgstaller 1949; one s. one d.; ed. Coll. of Int. Commerce. Exec. position Vöest AG 61, Financial Dir. 1967; mem. Board Dirs. (Dept. Finance, business admin., automatic data processing), Vöest-Alpine AG 1976, Pres. and Chair. Board Dirs. 1977-; Commdr. Nat. Order of Southern Cross (Brazil); Hon. Consul of Repub. of Senegal for Upper Austria. *Leisure interests:* hiking, skiing, swimming. *Address:* Am Winklerwald 1, 4020 Linz, Austria.

APITHY, Sourou Migan; Benin politician; b. 8 April 1913; ed. Ecole Libre des Sciences Politiques, Ecole Nat. d'Organisation Economique et Sociale. Deputy of Dahomey to French Constituent Assemblies 1945-46; mem. Nat. Ass. 1946-58; del. to seventh and eighth sessions UN 1953; mem. Grand Council French West Africa 1947-57; Pres. Gen. Council Dahomey 1955-57; Prime Minister Provisional Govt. 1958-59; Minister without Portfolio 1960; Vice-Pres. and Minister of the Plan and Development 1960; Ambassador of Dahomey to France, U.K., and Switzerland to 1963; Minister of Finance, Economy and the Plan 1963-64; Pres. of the Repub. of Dahomey 1964-65; mem. Pres. Council 1970-72; detained following coup 1972; Commdr. de la Grande-Comore. *Publication:* Au Service de mon Pays. *Address:* c/o Ministry of Justice, Cotonou, Benin.

APODACA, Jerry; American politician; b. 3 Oct. 1934, Las Cruces, New Mexico; s. of Raymond and Elisa Apodaca; m. Clara Melendres 1956; two s. three d.; ed. Univ. of New Mexico; history teacher and football and track coach, Valley High School, Albuquerque, N.M. 1957-60; Owner, Jerry Apodaca Insurance Agency, Jerry Apodaca Realty; State Senator, Dona Ana County 1966-74; Governor of State of New Mexico 1975-78. *Leisure interest:* sports. *Address:* 1420 Old Pecos Trail, Santa Fe, New Mexico 87501, U.S.A.

APONTE MARTÍNEZ, H.E. Cardinal Luis; American (Puerto Rican) ecclesiastic; b. 4 Aug. 1922, Lajas; s. of Santiago Evangelista Aponte and Rosa Martinez; ed. St. Ildefonso Seminary, San Juan and St. John's Seminary, Boston, Mass., U.S.A.; ordained priest 1950; Curate, Patillas, then Pastor of Santa Isabel; Sec. to Bishop McManus, Vice-Chancellor of Diocese of Ponce 1955-57; Pastor of Aibonito 1957-60; Chaplain to Nat. Guard 1957-60; Auxiliary Bishop of Ponce and Titular Bishop of Lares 1960-63; Bishop of Ponce 1963-64; Archbishop of San Juan 1964-; created Cardinal by Pope Paul VI 1973; Dir. of Devt. for Catholic Univ. of Puerto Rico 1960-63; Pres. Puerto Rican Episcopal Conf. 1966-; Hon. LL.D. (Fordham) 1966; Hon. S.T.D. (Inter-American Univ. of Puerto Rico) 1969. *Address:* Arzobispado, Calle San Jorge 201, Santurce, Puerto Rico 00912.

APPEL, André, D.D., L.H.D., D.S.T.; French ecclesiastic; b. 20 Dec. 1921, Strasbourg; three s. one d.; fmr. Chaplain Univ. of Paris; Sec.-Gen. French Protestant Fed. 1956-64; Pastor Temple Neuf, Strasbourg 1964-65; Sec.-Gen. Lutheran World Fed. 1966-74; Pres. Lutheran Church, Alsace and Lorraine 1974-. *Address:* 1A quai St. Thomas, F67081 Strasbourg-Cédex, France. *Telephone:* 88-324586.

APPEL, Karel Christian; Netherlands painter; b. 25 April 1921, Amsterdam; ed. Rijksakademie van Beeldende Kunsten, Amsterdam; began career as artist 1938; exhibitions in Europe, America and Japan 1950-; has executed murals in Amsterdam, The Hague, Rotterdam, Brussels and Paris; UNESCO Prize, Venice Biennale 1953; Lissone Prize, Italy 1958; Acquisition Prize, São Paulo Bienal 1959; Graphique Int. Prize, Ljubljana, Yugoslavia 1959; Guggenheim Nat. Prize, Netherlands 1951; Guggenheim Int. Prize 1961. *Address:* c/o Galerie Statler, 51 rue de Seine, Paris (Office) 7 rue Brézin, Paris 14e, France (Home).

APPIAH, Joe; Ghanaian lawyer and politician; b. 16 Nov. 1918, Kumasi; m. Peggy Cripps 1953; ed. Mfantisipim Secondary School, Cape Coast; worked as lawyer, later politician; mem. Convention People's Party; formed Opposition Nat. Liberation Movement Feb. 1955; imprisoned 1960-62; mem. Political Cttee. July 1966-69; goodwill Amb. to U.S.A. and U.K. Sept. 1966; Leader, Nationalist Party with M.K. Apaloo May 1969, merged to form United Nat. Party (UNP) July 1969; defeated in elections Aug. 1969; Pres. Ghana Bar Assen.; Chair. opposition Justice Party Oct. 1970-72; Roving Amb. for Nat. Redemption Council and Vice-Chair. Cttee. to guide Ghana's return to civilian rule 1972-77; Perm. Rep. to UN 1977. *Address:* Ekuona Chambers, P.O. Box 829, Kumasi, Ghana.

APPLEGATE, Oral Lester; American business executive; b. 14 Jan. 1917, Maysville, Ky.; s. of Earl and Marguerite (née Macy) Applegate; m. Ruth D. Hensgen 1935; one s. one d.; ed. Univ. of Cincinnati; mem. of Board of Educ., Cincinnati 1938-42; Chief Plant Engineer, Standard Brands Inc. 1942-45, Staff Engineer 1945-49, Plant Man. 1949-55, Vice-Pres. of Eng. 1955-58, Vice-Pres. of Manufacturing 1958-67, Senior Vice-Pres. 1967, Asst. to Chair. 1976-78, Exec. Vice-Pres. 1978, Pres. Sept. 1978-; Dr. h.c. (Univ. of Cincinnati). *Address:* Standard Brands Incorporated, 625 Madison Avenue, New York, NY 10022, U.S.A. (Office). *Telephone:* (212) 759-4400 (Office).

APPLETON, Rt. Rev. George, C.M.G., M.A., M.B.E.; British ecclesiastic; b. 20 Feb. 1902, Windsor; s. of Thomas George and Lily Appleton; m. Marjorie A. Barrett 1929; one s. two d.; ed. County Boys' School, Maidenhead, Selwyn Coll., Cambridge and St. Augustine's Coll., Canterbury; ordained deacon 1925, priest 1926; Curate, Stepney Parish Church 1925-27; Missionary in charge Soc. for the Propagation of the Gospel Mission, Irrawaddy Delta 1927-33; Warden, Coll. of Holy Cross, Rangoon 1933-41; Archdeacon of Rangoon 1943-46; Dir. of Public Relations, Govt. of Burma 1945-46; Vicar of Headstone 1947-50; Sec. Conf. of British Missionary Socs. 1950-57; Rector, St. Botolph, Aldgate, London 1957-62; Archdeacon of London and Canon of St. Paul's Cathedral 1962-63; Archbishop of Perth (Australia) 1963-69; Anglican Archbishop in Jerusalem 1969-74; retd. 1974; Buber-Rosenzweig Medal, Council of Christians and Jews 1975. *Publications:* John's Witness to Jesus 1955, In His Name 1956, Glad Encounter 1959, On the Eightfold Path 1961, Daily Prayer and Praise 1962, Acts of Devotion 1963, One Man's Prayers 1967, Jerusalem Prayers for the World Today 1973, Journey for Soul 1974, The Word is the Seed 1976. *Address:* 7/8 Ginge, Wantage, Oxon., OX12 8QR, England. *Telephone:* East Hendred 583.

APPLEYARD, Raymond K., PH.D.; British scientist; b. 5 Oct. 1922, Birkley; m.; one s. two d.; ed. Rugby School, Trinity Coll., Cambridge. Instructor in Physics and Biophysics, Yale Univ. 1949-51; Fellow in Natural Sciences, Rockefeller Foundation 1951-53; Assoc. Research Officer, Atomic Energy of Canada Ltd. 1953-56; Sec. UN Scientific Cttee. on the Effects of Atomic Radiation 1957-61; Dir. Biology Services, European Atomic Energy Community (EURATOM) 1961-73; Exec. Sec. European Molecular Biology Org. 1965-73; Sec. European Molecular Biology Conf. 1969-73; Dir.-Gen. Scientific and Tech. Information and Information Management, Comm. of European Communities 1973-. *Address:* Directorate-General for Scientific and Technical Information and Information Management, Bâtiment Jean Monnet, Luxembourg-Kirchberg, Luxembourg; 120 rue de la Loi, Brussels, Belgium. *Telephone:* 43011 (Luxembourg); 7350040 (Brussels).

APRAHAMIAN, Felix; British music critic, writer and broadcaster; b. 5 June 1914, London; ed. Tollington School; contributor to musical press 1931-, national press 1937-; broadcaster 1942-; Asst. Sec. and Concert Dir. London Philharmonic Orchestra 1940-46; Consultant, United Music Publishers Ltd. 1946-64; Deputy Music critic Sunday Times 1948-; Music editor The Listener 1966-67; Reviewer The Gramophone 1964-; Lecturer Richmond Adult Coll. 1969-, Stanford Univ. in U.K. 1969-, City Literary Inst. 1973-. Morley Coll. 1975-; Hon. Sec. The Organ Music Soc. 1935-70; Hon. mem. R.C.O. 1973, BBC Cen. Music Advisory Cttee. 1958-

61; Co-founder and organizer, Concerts de Musique Française 1942-64; Adviser, Delius Trust 1961-; mem. and Pres. Int. Music Juries, Geneva and Montreux 1963-. *Publications:* (Editor) Ernest Newman's Essays from the World of Music 1956; More Essays from the World of Music 1958; Essays on Music from The Listener 1967. *Leisure interests:* horticulture, bibliophily. *Address:* 8 Methuen Park, London, N.10, England. *Telephone:* 01-883 3783.

APRÓ, Antal; Hungarian politician; b. 8 Feb. 1913, Szeged; joined Communist Party 1931; Pres. of Building Workers' Assen. 1945; Gen. Sec. Trade Union Council 1948-51; Minister of Building Materials Industry 1952-53; Deputy Prime Minister 1953-56, 1961-71; Minister of Industry 1956-57; First Deputy Prime Minister 1957-61; Perm. Rep. to Council for Mutual Econ. Aid 1959-71; Pres. Nat. Council, Patriotic People's Front 1956-57; Speaker of Parl. 1971-; Chair. Hungarian-Soviet Friendship Soc. 1971-; mem. Politburo, Socialist Workers' Party. *Address:* National Assembly, H-1357 Kossuth L. tér, Budapest, Hungary.

AQUARONE, Stanislas Raoul Adrien, PH.D.; Australian international civil servant; b. 13 Nov. 1915, Melbourne; m. 1941; two s. two d.; ed. Univ. of Toronto Schools, Univ. of Toronto and Columbia Univ., N.Y.; fmr. teacher of French language and literature, Hamilton Coll. and in Columbia, Panama and Toronto Univs.; Sec. Int. Court of Justice 1948-51, First Sec. 1951-60, Deputy Registrar 1960-66, Registrar 1966-. *Publication:* The Life and Works of Emile Littré (1801-1881) 1958. *Address:* International Court of Justice, Peace Palace, The Hague (Office); Benoordenhoutsweg 93, The Hague, Netherlands (Home).

AQUINO, Francisco, M.P.A.; Salvadorian agricultural engineer and economist; b. 12 Sept. 1919; s. of Francisco Aquino and Lucila Herrera; m. María Dalila Negro 1946; three s. one d.; ed. Coll. for Agronomic Studies, San Salvador and Harvard Univ., U.S.A. Land Appraiser, Mortgage Bank, San Salvador 1942; Analyst, Nat. Planning Assen., Washington, D.C. 1943; Man. Fed. of Rural Credit Co-operatives, San Salvador 1944; Adviser to Minister of Economy, Guatemala 1946-47; Dir. Econs. Research Dept., Ministry of Agriculture, San Salvador 1947-48; Economist, Econ. Comm. for Latin America (ECLA) 1948-56; Chief, Cereals Section, Food and Agricultural Org. (FAO), Rome 1956-59; Dir. ECLA-FAO Econs. Div., Santiago de Chile 1959-61; Minister of Agriculture, El Salvador April-June 1961; Pres. Banco central de Reserva de El Salvador, and concurrently, Gov. for El Salvador, in Int. Monetary Fund (IMF), in Int. Bank for Reconstruction and Devt. (IBRD—World Bank) and Affiliate in Cen. American Bank for Econ. Integration, also mem. Nat. Planning Council and Pres. Cen. American Monetary Council 1961-66; Technical Man. Inter-American Devt. Bank, Washington, C.D. 1967-68; Exec. Dir. UN-FAO World Food Programme 1968-76; Chair. Joint Board of Govs. IMF-IBRD 1964; Order of Christopher Columbus. *Leisure interests:* music and wildlife.

ARAFAT, Yasser (pseudonym of Mohammed Abed Ar'ouf Arafat); Palestinian resistance leader; b. 1929, Jerusalem; ed. Cairo Univ.; joined League of Palestinian Students 1944, mem. Exec. Cttee. 1950, Pres. 1952-56; formed, with others, Al Fatah movt. 1956; engineer in Egypt 1956, Kuwait 1957-65; Pres. Exec. Cttee. of Palestine Nat. Liberation Movement (Al Fatah) June 1968-; Chair. Exec. Cttee. Palestine Liberation Org. 1968-, Pres. Cen. Cttee., Head, Political Dept. 1973-; Gen. Commdr. Palestinian Revolutionary Forces; Joliot-Curie Gold Medal, World Peace Council Sept. 1975. *Address:* Palestine Liberation Organization, Colombani Street, Off Sadat Street, Dr. Raji Nasr Building, Ras Beirut, Lebanon.

ARAFUNE, Seijuro; Japanese politician; mem. House of Reps.; Chair. House Budget Cttee. 1976; Minister of Transport July-Oct. 1966; Minister of State, Dir.-Gen. Administrative Man. Agency Sept.-Dec. 1976, 1977-79; Liberal-Democratic Party. *Address:* c/o Administrative Management Agency, Tokyo, Japan.

ARAGON, Louis; French novelist, poet and essayist; b. 3 Oct. 1897, Paris; m. Elsa Kagan (died 1970); ed. Univ. of Paris; one of founders and fmr. leader Surrealist Movement, now leader Socialistic Realism Movement; Sec. French section of Int. Assen. of Writers for Defence of Culture; mem. Cttee. of Dirs. Europe review; Dir. fmr. Paris daily Ce Soir; Dir. Les Lettres Françaises (weekly) 1953-72; mem. Communist Party; mem. Lenin Int. Peace Prize Cttee.; mem. Acad. Goncourt 1967-68; served with Tank Div. 1939-40, prisoner of war, escaped to unoccupied France, worked in Resistance movt.; Hon. mem. American Acad. of Arts and Letters 1972; Order of October Revolution (U.S.S.R.). *Publications:* Novels: Anicet, Le libertinage, Le paysan de Paris, Les cloches de Bâle, Les beaux quartiers (awarded Prix Renaudot), Les voyageurs de l' Impériale, Aurélien, La semaine sainte, La mise à mort, Blanche ou l'oubli; essays: Traité du style, Les aventures de Télémaque, Pour un réalisme socialiste; poems: Feu de joie, Le mouvement perpétuel, La grande gaité, Persécuté persécuteur, Hourra l'oural, Le crève-coeur, Les yeux d'Elsa, La Diane française, Les yeux et la memoire, Elsa, Le fou d'Elsa, Les chambres, Poème du temps qui ne passe pas, Les poètes; history: Histoire de l'U.R.S.S. de 1917-1960. *Address:* 56 rue de Varenne, 75007 Paris, France.

ARAM, Abbas; Iranian diplomatist; b. 1906; ed. Teheran and Europe; entered diplomatic service 1931; Asst. Chief, Third Political Div., Foreign Ministry 1943; First Sec. Berne 1945; First Sec., Counsellor, and Chargé d'affaires, Washington 1946, 1949 and 1950; Dir. Fourth Political Div., Foreign Ministry 1951; Counsellor, Embassy, Baghdad 1953; Chargé d'affaires and Minister, Washington 1953 and 1954-56; Dir.-Gen. Political Affairs, Foreign Ministry 1958; Amb. to Japan 1958, concurrently to Republic of China; Minister of Foreign Affairs 1959-60; Amb. to Iraq 1960-62; Minister of Foreign Affairs 1962-67; Amb. to U.K. 1967-69, to People's Repub. of China 1972-75, also accred. to Dem. Repub. of Viet-Nam and to Dem. People's Repub. of Korea; returned to Teheran 1975; Senator 1977-79.

ARAÑA OSORIO, Gen. Carlos Manuel; Guatemalan army officer and politician; b. 17 July 1918; fmr. Commdr. Zacapa Brigade, Guatemala Army; fmr. Amb. to Nicaragua; mem. Movimiento de Liberación Nacional (MLN); Pres. of Guatemala 1970-74. *Address:* c/o Oficina del Presidente, Guatemala City, Guatemala.

ARAPOV, Boris Aleksandrovich; Soviet composer; b. 12 Sept. 1905, St. Petersburg (now Leningrad); s. of Aleksandr Borisovich Arapov and Yelizaveta Arapova; m. Tatiana Todorova 1933; two d.; ed. Leningrad Conservatoire; teacher at Leningrad Conservatoire 1930-; Prof. 1940-, Head of Dept. Composition; Exec. mem. Leningrad Section, Soviet Composers' Union; awards include Honoured Worker of Arts of Uzbek S.S.R. 1944, of R.S.F.S.R. 1957, Order of Red Banner of Labour 1953. *Major compositions:* (works for opera and ballet) Hodja Nasreddin (Uzbek comic opera) 1944, Frigate "Victory" (opera) 1957, Rain (chamber opera) 1965, Portrait of Dorian Gray (ballet) 1971; (orchestral works) Tadzhik Suite 1938, Russian Suite 1951, 6 Pieces on Chinese Themes for Piano 1955, Free China (symphonic poem) 1959, Symphony No. 3 1962, Concerto for Violin and Orchestra 1964, Concerto for Full Symphony Orchestra 1969, Concerto for Violin, Piano, Percussion and Chamber Orchestra (In Memory of I. Stravinsky) 1973, Symphony No. 4 for Reciter, Baritone, Mezzo-Soprano, 2 Mixed Choirs and Full Symphony Orchestra (after verses by V. Briusov, B. Mayakovsky, S. Orlov, S. Shchipachev) 1975; (vocal orchestral works) Vocal Cycle for Tenor, Baritone and Orchestra (on verses by A. Pushkin) 1937, Vocal Cycle for Soprano, Tenor, and Nonet: "Four Times of Year" (on verses by Japanese Chokku) 1977; (orchestral chamber works) Humoresque for Piano 1937, 3 Pieces on Mongol Themes for Clarinet, Violin and Piano 1943, 6 Pieces on Chinese Themes for Piano 1955, Etude-Scherzo for Piano 1967, Sonata for Piano 1970, 3 Pieces for Piano 1970; (vocal chamber works) 4 Romances for Soprano and Piano (on verses by A. Blok) 1947-63, Negro Protest Songs for Voice and Jazz Orchestra 1940, Four Songs for Voice and Piano 1949, Soliloquy for Baritone 1969, "Monologue" for Baritone, Tuba, Percussion and Piano (on verses by A. Voznesensky) 1969, Four Sonnets by Petrarch for Mezzo-Soprano and Piano 1975, Second Sonata for Piano 1976. *Leisure interests:* travel, western European painting, oriental decorative art. *Address:* Prospekt Y. Gagarina 35, kv. 65, Leningrad 196142, U.S.S.R. *Telephone:* 2-93-82-63.

ARARIPE MACEDO, Lieut.-Gen. Joelmir Campos de; Brazilian air force officer and politician; b. 16 Feb. 1909, Rio de Janeiro; s. of José Araripe Macedo and Zulmira Campos de Araripe Macedo; m. Maria de Lourdes Vianna 1934; one s. one d.; ed. Colégio Militar, Escola Militar and Escola Técnica do Exército; fmr. Instructor, Escola Técnica do Exército; Pres. Fábrica Nacional de Motores, Co-ordinating Cttee. of Int. Airport Project; Dir. Engenharia da Aeronáutica, Material Aeronáutica, Rotas Aéreas; mem. Industrial Devt. Comm., Nat. Petroleum Council; Insp.-Gen. of Aviation; Minister of Aeronautics 1972-; decorations from Brazil, Italy, France, Portugal, Ecuador, Bolivia, Korea, China, Paraguay, Colombia and Venezuela. *Publications:* various articles on aeronautical subjects. *Leisure interest:* reading practical works on aviation. *Address:* Ministério da Aeronáutica, Esplanada dos Ministérios, Bloco 2, Brasília, D.F., Brazil. *Telephone:* 23-0409, 23-1409, 23-2409.

ARAÚJO, José Emilio Gonçalves, DR.AGRON.; Brazilian soil scientist; b. 8 Sept. 1922, Rio de Janeiro; s. of Antônio Araújo Fernández and Emerenciana Gonçalves; m. Laurinda Lopez 1946; one s. two d.; ed. Universidade Rural do Brasil, Rio de Janeiro, Universidade Federal Rural do Sul, Pelotas, Cornell Univ., N.Y., U.S.A.; acting Prof., Coll. of Agriculture, Universidade Federal de

Pelotas 1946-48, Prof. 1948-65; Prof. Escola Agrotécnica Visconde de Graça, Pelotas 1952-60; Natural Resources Expert, Inter-American Inst. of Agricultural Sciences, OAS 1965, Dir.-Gen. 1970-76, re-elected 1976; Dir. Inter-American Program for Rural Devt. and Agrarian Reform of the Secretariat of the OAS 1965-70; Chief, Soils Section, Instituto Agronômico do Sul 1947-50, Dir. 1952-53, mem. Perm. Technical Council on Soils 1958-61; mem. Brazilian Soc. for Soil Science, Brazilian Geological Soc., Brazilian Soc. for the Advancement of Science, American So. of Agronomy, Latin-American Soc. of Soil Science, Int. Soil Science Assn., etc.; Officer, Orden del Mérito Agrícola (Colombia) 1970, Commdr. Orden Mérito Agrícola (Peru) 1973, Isabel La Católica Award (Spain), and other awards. *Publications:* more than 35 formal papers and two books on agricultural soil research, agrarian reform and other related subjects. *Address:* Inter-American Institute of Agricultural Sciences, P.O. Box 55, San Isidro de Coronado, Costa Rica. *Telephone:* 29-02-22.

ARAÚJO SALES, H.E. Cardinal Eugénio de; Brazilian ecclesiastic; b. 8 Nov. 1920, Acari; ordained 1943; Bishop 1954; Apostolic Administrator, See of São Salvador da Bahia until 1968; Archbishop of São Sebastião do Rio de Janeiro 1972-; cr. Cardinal 1969. *Address:* Palácio São Joaquim, Rua da Glória, Rio de Janeiro, RJ, Brazil.

ARBER, Werner, M.D.; Swiss microbiologist; b. 1929, Gränichen, Aargau; m.; two c; ed. Aargau Gymnasium, Eidgenössischen Technischen Hochschule, Zürich. Asst. at Laboratory of Biophysics, Univ. of Geneva 1953-58, Docent then Extraordinary Prof. Molecular Genetics 1959-70; Research Assoc., Dept. of Microbiology, Univ. of Southern Calif. 1958-59; Visiting Investigator, Dept. of Molecular Biology Univ. of Calif., Berkeley 1970-71; Prof. of Microbiology, Univ. of Basel 1971-; Joint Winner Nobel Prize for Physiology or Medicine 1978. *Address:* Biozentrum der Universität, Basel, 70 Klingelbergstrasse, CH-4000 Basel, Switzerland (Office) *Telephone:* (061) 253880.

ARBULÚ GALLIANI, Gen. Guillermo; Peruvian army officer and government official; b. Trujillo; m. Bertha Tanaka de Azcárate; one s. two d.; ed. Chorillos Mil. Acad. Sub-Lieut., Eng. Corps 1943, Lieut. 1946, Capt. 1949, Major 1955, Lieut.-Col.1959, Col. 1964, Brig.-Gen. 1971, Div. Gen. 1975-; fmr. Chief of Staff, 1st Light Div.; fmr. Dir. of Logistics; fmr. Chief of Operations, Armed Forces Gen. Staff; fmr. Dir. of Mil. Eng. Coll.; fmr. Instructor, Higher War Coll.; fmr. Adviser to Ministries of Mining and Fisheries; fmr. Pres. Empresa Pública de Servicios Pesqueros (State Fishing Corpn.); Pres. Joint Armed Forces Command; Prime Minister and Minister of Defence 1976-78, Amb. to Chile 1978-; del. to Latin American Conf. of Ministers of Labour; rep. of Ministry of Foreign Affairs to negotiations for Andean Pact; rep. to 11th American Mil. Congress; Commdr. Mil. Order of Ayacucho; Jorge Chávez Award; Grand Officer of Peruvian Crosses of Aeronautical Merit, Naval Merit; Grand Cross, Peruvian Order of Mil. Merit; Grand Officer, Mayo Cross of Mil. Merit (Argentina). *Address:* Embassy of Peru, Avda. Andrés Bello 1751, Casilla 16277, Santiago, Chile.

ARBUZOV, Aleksey Nikolayevich; Soviet playwright; b. 26 May 1908, Moscow; ed. Leningrad Theatrical School. Actor in theatres in Leningrad and Moscow 1923-30; mem. Union of U.S.S.R. Writers; Literary work 1930-; Order of Red Banner of Labour 1958, 1968. *Publications:* plays: Six Favourites 1935, The Long Road 1935, Tanya 1939, The Year of the Tsar 1941, Little House on the Outskirts 1943, The Wandering Years 1954, They are Waiting for us Somewhere 1953, Irkutsk Story 1959, The Twelfth Hour 1959, The Prodigal Son 1961, My Poor Marat 1964, The Promise 1966, Confessions at Night 1967, Lucky Days of an Unlucky Man 1968, Plays 1969, Choice, a Collection of Plays 1976, Expectation 1976, Cruel Games 1977. *Address:* Union of U.S.S.R. Writers, 52 Ulitsa Vorovskogo, Moscow, U.S.S.R.

ARBUZOV, Boris Aleksandrovich; Soviet chemist; b. 4 Nov. 1903, Novaya Aleksandriya; s. of Aleksandr Arbuzov and Yekaterina Arbuzova; m. Olga Mikhailova 1926; one d.; ed. Inst. of Agriculture and Forestry, Kazan, and Univ. of Kazan. Docent Professor, Institute of Chemical Technology, Kazan 1930-38; Prof. Organic Chem., Univ. of Kazan 1938-, Dean Chem. Div. 1940-50; Dir. Inst. Organic Chem. in Kazan, U.S.S.R. Acad. of Sciences 1958-65; Dir. Arbuzov Inst. Organic and Physical Chem. 1965-71; corresp. mem. U.S.S.R. Acad. of Sciences 1943-53, mem. 1953-; Deputy to U.S.S.R. Supreme Soviet 1966-; awards include U.S.S.R. State Prize 1951, Hero of Socialist Labour, four Orders of Lenin, Order of Red Banner of Labour (twice), Order of October Revolution, Hammer and Sickle Gold Medal. *Publications include:* Investigations in the Field of Isomeric Rearrangements of Bicyclic Terpens and their Epoxydes 1936, The Arbuzov Transformation. *Address:* Arbuzov Institute of Organic and Physical Chemistry, Kazan; 5 Shkolny Prospect, kv. 4, Kazan, U.S.S.R. *Telephone:* 4-07-85.

ARCHAMBAULT, Pierre; French journalist; b. 24 June 1912. Préfet (Acting) Indre-et-Loire 1944; Dir.-Gen. La Nouvelle République du Centre-Ouest 1944-72, Vice-Pres. du Directoire, Tours 1973-, Président d'Honneur; Pres. Syndicat Nat. de la Presse Quotidienne Régionale 1951-71, later Man.; Pres. Confédération de la Presse Française 1970-; mem. Council Agence France-Presse 1957-69, 1971-; mem. Man. Council Office de Radiodiffusion-Télévision Française (ORTF) 1964-72; mem. Haut Conseil de l'Audiovisuel; mem. Commission de la Qualité. *Address:* 4-18 rue de la Préfecture, 37000 Tours, Indre-et-Loire, France. *Telephone:* (47) 61.81.46.

ARCINIEGAS, Germán, D.L.; Colombian writer and diplomatist; b. 6 Dec. 1900, Bogotá; s. of Rafael Arciniegas and Aurora Angueyra; m. Gabriela Vieira 1929; two d.; ed. Univ. Nacional, Bogotá. Vice-Consul, London 1929; Chargé d'affaires, Buenos Aires 1940; Minister of Education, Republic of Colombia 1942-46; Visiting Prof. Univ. of Chicago 1944, Univ. of Calif. 1945, Columbia Univ. 1947; Prof. Columbia Univ. 1954-59; Amb. to Italy 1959-62, to Venezuela 1967-70, to Vatican City 1976-78; Dean, Faculty of Philosophy and Letters, Universidad de los Andes, Bogotá 1979-; Editor Cuadernos, Paris 1962, Amérique Latine, a monthly section of Revue des deux Mondes 1974-; mem. Acad. of History and Letters of Colombia; corresp. mem. acads. in Spain, Argentina, Mexico, Cuba, etc.; Hammarsjköld Prize 1967. *Publications:* El Estudiante de la Mesa Redonda 1932, América Tierra Firme 1937, Los Comuneros 1938, The Knight of El Dorado 1942, Germans in the Conquest of America 1943, The Green Continent 1944, Este Pueblo de América 1945, Caribbean, Sea of the New World 1946, The State of Latin America 1952, Amerigo and the New World 1955, Italia, Guía para Vagabundos 1959, América Mágica 1959, América Mágica II 1961, Cosas del Pueblo 1962, El Mundo de la Bella Simoneta 1962, Entre el Mar Rojo y el Mar Muerto 1964, Latin America: A Cultural History 1966, Genio y Figura de Jorge Isaacs 1967, Medio Mundo Entre un Zapato 1969, Nuevo Diario de Noé 1969, Colombia Itinerario y Espíritu de la Independencia 1969, Roma Secretísima 1972, América en Europa 1975, Fernando Botero 1978, El revés de la Historia 1979. *Address:* Facultad de Filosofía, Universidad de los Andes, Cra 1E-18A-10, Bogotá, Colombia.

ARCY, Jean Baron D'; French television administrator; b. 10 June 1913, Versailles; s. of Richard, Baron d'Arcy and Lucie Huyot; m. 1st Marie M. Duval 1946 (deceased), one s.; m. 2nd Countess Manuela Serra 1970; ed. Ecole des Hautes Etudes Commerciales, Paris, Faculté de Droit, Paris, and Ecole d'Application d'Artillerie, Fontainebleau. Artillery officer 1934-45; Asst. Dir. in Ministry of Deported Prisoners and Refugees 1944-45; private sec. to Minister of Armies 1945-46; Dir. of Office of Minister of Youth, Arts and Letters 1947; technical adviser to Minister of Information 1948-49; seconded for special duties with Radiodiffusion-Télévision Française (R.T.F.) 1950-52, Television Programme Dir. 1952-59, Dir. of Int. Relations 1959-61; Dir. Radio and Visual Services Div., UN 1961-72; Pres. Video-Cites S.A. 1973-; mem. Haut Conseil de l'Audiovisuel 1973-; Chair. Int. Inst. of Communications; Officier, Légion d'honneur; Croix de guerre; Médaille de la Résistance. *Address:* 8 Rue Leroux, 75116, Paris, France. *Telephone:* 704 4735.

ARDEN, John; British playwright; b. 26 Oct. 1930, Barnsley; s. of Charles Alwyn Arden and Annie Elizabeth Layland; m. Margaretta Ruth D'Arcy 1957; four s. (one deceased); ed. Sedbergh School, King's Coll., Cambridge, and Edin. Coll. of Art. Fellow in Playwriting, Bristol Univ. 1959-60; Visiting Lecturer (Politics and Drama), New York Univ. 1967; Regent's Lecturer, Univ. of California, Davis 1973; Writer in Residence, Univ. of New England, Australia 1975; Co-founder of Corrandulla Arts Club 1971, Galway Theatre Workshop 1975. *Plays:* All Fall Down 1955, The Life of Man 1956, The Waters of Babylon 1957, Live Like Pigs 1958, Sergeant Musgrave's Dance 1959, Soldier, Soldier 1960, The Business of Good Government (with Margaretta D'Arcy) 1960, Wet Fish 1962, The Workhouse Donkey 1963, Ironhand 1963, Ars Longa Vita Brevis (with Margaretta D'Arcy) 1964, Armstrong's Last Goodnight 1964, Left Handed Liberty 1965, Friday's Hiding (with Margaretta D'Arcy) 1966, The Royal Pardon (with Margaretta D'Arcy) 1966, Muggins is a Martyr (with Margaretta D'Arcy and C.A.S.T.) 1968, The Hero Rises Up (musical with Margaretta D'Arcy) 1968, two autobiographical plays 1972, The Ballygombeen Bequest (with Margaretta D'Arcy) 1972, The Island of the Mighty (with Margaretta D'Arcy) 1972, Keep These People Moving (with Margaretta D'Arcy) 1972, The Non-Stop Connolly Show (with Margaretta D'Arcy) 1975, Pearl 1977. Television documentary: Profile of Sean O'Casey (with Margaretta D'Arcy) 1973. Essays: Presenting the Pretence 1977. *Address:* c/o Margaret Ramsay Ltd., 14A Goodwin's Court, London, W.C.2, England.

ARDIZZONE, Edward, C.B.E., R.A., R.D.I.; British artist; b. 16 Oct. 1900, Haiphong, North Viet-Nam; s. of French and Italian father

and Scots mother; m. Catherine J. Anderson 1928; two s. one d.; ed. Clayesmore School, Westminster School of Art; clerk in London 1918-26; freelance artist 1926-; served in Royal Artillery 1939-40; full-time official War Artist 1940-45; Tutor, Royal Coll. of Art, London; has illustrated more than 170 books for British and American publishers; works purchased by the Tate Gallery, the Arts Council of Great Britain and various provincial art galleries; Kate Greenaway Medal; Hon. A.R.C.A. *Publications:* A series of children's books, with original illustrations, including Little Tim and the Brave Sea Captain, Tim All Alone, Diana and Her Rhinoceros, The Young Ardizzone: An Autobiographical Fragment, Diary of a War Artist 1974, etc., and numerous book illustrations. *Address:* No. 5, Vine Cottages, Rodmersham Green, Sittingbourne, Kent, England.

ARDWICK, Baron (Life Peer), cr. 1970, of Barnes in the London Borough of Richmond-upon-Thames; **John Beavan;** British journalist; b. 1910; ed. Manchester Grammar School; with Evening Chronicle, Manchester 1928-30, Manchester Evening News 1930-40; Diarist, Leader Writer Evening Standard 1940-42; News Editor and Chief Sub-Editor, The Observer 1942-43; Editor, Manchester Evening News; Dir. Manchester Guardian and Evening News Ltd., 1943-55; London Editor, Manchester Guardian 1946-55; Asst. Dir. Nuffield Foundation 1955-60; Editor, Daily Herald Oct. 1960-62; Political Adviser, Daily Mirror Group 1962-75; mem. European Parl. 1975-79. *Address:* House of Lords, London, S.W.1, England.

AREF, Maj.-Gen. Abdul Rahman Mohammed (brother of late President Abdul Salam Aref); Iraqi army officer and politician; b. 1916; ed. Baghdad Military Acad. Head of Armoured Corps until 1962; Commdr. 5th Div. Feb. 1963-Nov. 1963; assisted in overthrow of Gen. Kassem 1963; mem. Regency Council 1965; Asst. Chief of Staff Iraqi Armed Forces Dec. 1963-64; Acting Chief of Staff 1964, Chief of Staff 1964-68; Pres. of Iraq April 1966-July 1968, also Prime Minister May-July 1967.

AREILZA, José Maria de, Count of Motrico; Spanish diplomatist and politician; b. 3 Aug. 1909, Bilbao; s. of Enrique de Areilza and Countess de Rodas; m. Mercedes de Churruca, Countess Motrico 1932; three s. two d.; ed. Bilbao Univ. and Univ. of Salamanca. Mayor of Bilbao 1937; Dir.-Gen. of Industry, Franco Cabinet 1938-40; mem. Cortes 1943-47; Amb. to Argentina 1947-50; industrial and banking activities 1950-54; Amb. to U.S.A. 1954-60, to France 1960-64; Sec.-Gen. Monarchist Party 1966-69; Nat. Econ. Counsellor; mem. Nat. Council and Political Junta of Falange; mem. Federación de Estudios Independientes (Fedisa); Minister of Foreign Affairs 1975-76, co-founder and Leader, Partido Popular 1976; Grand Cross of Carlos III, of Isabel la Católica, Merito Civil; Légion d'honneur; Orden del Libertador (Argentina). *Publications:* Reivindicaciones de España 1941, Embajadores sobre Espana 1946, Escritos Políticos 1968, Cien Artículos 1971, Figuras y Pareceres 1973, Así los he visto 1974, Diario de un Ministro de la Monarquía 1978. *Leisure interests:* books, travel, engravings. *Address:* Fuente del Rey, 11 Aravaca, Spain. *Telephone:* 207 02 59.

ARENDT, Walter; German politician; b. 17 Jan. 1925, Heessen; m. Erna Arendt 1948; one s.; ed. Akad. der Arbeit, Frankfurt and Akad. für Gemeinschaft, Hamburg. Miner in Heessen 1939-47; Editor IG Bergbau und Energie, Bochum 1948, mem. Man. Board 1955, Chair. 1964-69; mem. Bundestag (S.P.D.) 1961-, mem. European Parl. 1961-69; Pres. Int. Union of Miners 1967-69; Minister for Labour and Social Welfare 1969-76. *Address:* 53 Bonn Z, Federal Republic of Germany.

ARESPACOCHAGA Y FELIPE, Juan de; Spanish civil engineer and economist; b. 1920, Madrid; s. of Nicolás de Arespacochaga; m. Marta Llopiz 1949; one s. eight d.; ed. Univ. of Madrid. Lord Mayor of Madrid; fmr. Dir.-Gen. for Tourist Promotion; Chair. Acad. Internationale de Tourisme, Empresa Nacional de Turismo, Nat. Assen. of Spanish Roads; Chair. Civil Eng. Assen., mem. Nat. Coll. of Economists, Nat. Coll. of Civil Engineers, etc.; Grand Cross of Civil Merit and Orders from Italy, Tunisia and Lebanon. *Publications:* Las Obras Hidráulicas y la decadencia económica de España 1948, El aceite de Oliva, moneda mediterránea 1949, El multiplicador económico en las obras de riego 1956, Los transportes españoles y la integración europea 1959, Las inversiones de O.P. en la Plan Nacional. *Leisure interests:* yacht, golf, winter sports. *Address:* Alberto Alcocer 13, Madrid 16, Spain. *Telephone:* 250-31-16.

ARGAN, Giulio Carlo; Italian city mayor and professor of art; b. 17 May 1909, Turin; m. Anna Maria Mazzucchelli 1939; one d.; ed. Univ. of Turin. Supt. of State Museums and Galleries 1939, later Cen. Dir. of State Museums and Galleries until 1955; Prof. of Modern Art, Univ. of Rome 1959-; Mayor of Rome (independent Communist candidate) Aug. 1976-; Chair. Museums and Works of Art Section of Higher Council on Antiquities and Arts until 1976; Founder, Dir. Storia dell' Arte review, Co-Dir. L'Arte review; mem. Lincei Acad., San Luca Acad., Turin Acad. of Sciences, Palermo Acad. of Sciences and Letters, Bologna Acad. Clementina; Feltrinelli Prize for art criticism, Ulysses Prize for architecture criticism. *Publications:* L'Architettura preromanica e romanica in Italia 1936, L'Architettura del duecento e del trecento in Italia 1937, 1943, Arturo Tosi 1938, Giacomo Manzù 1942, Henry Moore 1948, Walter Gropius e la Bauhaus 1951, Borromini 1952, La Scultura di Picasso 1953, Studi e Note 1955, Fra Angelico 1955, Breuer 1955, Botticelli 1956, Brunelleschi 1955, Arturo Martinia 1956, L'Architettura barocca in Italia 1957, Salvezza e caduta nell'arte moderna 1964, L'Europa delle capitali 1964, Progetto e destino 1965, Capogrossi 1967, Storia dell'arte italiana (3 vols.) 1968, The Renaissance City 1969, Studi e note: dal Bramante al Canova 1970, L'arte moderna 1770-1970 1970, Man Ray 1970, Mastroianni 1971, Henry Moore 1972 Die Kunst des 20 Jahrhunderts 1880-1940, 1977 and numerous articles. *Address:* Via Filippo Casini 16, 00153 Rome, Italy. *Telephone:* 5810112.

ARGOD, Hubert Aymard, DIP. SC. POL.; French diplomatist; b. 28 Aug. 1914, Bourg-de-Péage (Drôme); m. Andrée Lognos 1969; ed. Ecole des Roches, Ecole Libre des Sciences Politiques, Paris. Diplomatic Service 1941-; French Provisional Govt., Algiers; First Sec. French Del. to UN, New York 1946; First Sec., Beirut 1947-50, High Comm. in Germany 1951; European Affairs Dept., Ministry of Foreign Affairs 1952, Tunisian and Moroccan Affairs dept. 1956-58, Head, Levant Desk 1958-61; First Counsellor, Tunis 1961; Amb. to Chad 1961-62; Minister-Counsellor, Algiers 1962; Deputy High Rep. Algiers 1963; Amb. to Cambodia 1964-68, to Senegal and The Gambia 1969-73, to Lebanon 1975-; Dir. de Cabinet of Sec. of State to Minister of Foreign Affairs April-May 1974; with Cen. Admin. 1974-75; Ambassadeur de France; Officer, Légion d'honneur, Croix de guerre (1939-45). *Address:* French Embassy, Rue Clemenceau, Beirut, Lebanon (Office); 2 boulevard des Sablons, 92200 Neuilly-sur-Seine, France (Home).

ARIAN, Abdullah al-, PH.D.; Egyptian diplomatist and lawyer; b. 21 March 1920, Damanhur; ed. Cairo, Harvard and Columbia (N.Y.) Univs. Asst. District Attorney, Boheirah Province 1942-43; Lecturer in Law, Cairo Univ. 1943-45, Asst. Prof. of Int. Law and Int. Org., Inst. of Public Admin., Cairo 1959-61; Prof. of Int. Law, Div. of Legal Studies, Inst. of Arab Higher Studies, Cairo 1959-; Counsellor, Office of Pres. of Egypt 1955-56; Counsellor and Legal Adviser, Perm. Mission at UN 1957-59; Dir. Dept. of Legal Affairs and Treaties, Ministry of Foreign Affairs 1959-68; Amb. and Deputy Perm. Rep. to UN 1968-71; Amb. to France 1971-74; Perm. Rep. to UN Office, Geneva 1974-; mem. Int. Law Comm. 1957-58, 1961-65, 1966-; del. to numerous UN and OAU confs. and several sessions of UN Gen. Assembly. *Publications:* several books and articles on questions of international law and the UN. *Address:* Mission Permanente d'Egypte auprès des Nations Unies, 72 rue de Lausanne, Geneva, Switzerland.

ARIAS, Dame Margot Fonteyn de, D.B.E. (wife of Roberto Arias, q.v.); British ballerina; b. (as Margaret Hookham) 18 May 1919; ed. U.S.A. and China; as prima ballerina of the Royal Ballet Company, London, has danced all principal classical roles as well as leading roles in many modern ballets, and has appeared in many countries all over the world; films include I am a dancer 1972; Pres. Royal Acad. of Dancing 1954-; Order of Finnish Lion; Benjamin Franklin Medal 1973, Anglo-German Shakespeare Prize 1977; several hon. degrees. *Publications:* Margot Fonteyn (autobiog.) 1975, A Dancer's World 1978. *Address:* c/o Royal Opera House, Covent Garden, London, W.C.2, England.

ARIAS, Roberto Emilio, B.A. (husband of Dame Margot Fonteyn de Arias, q.v.); Panamanian lawyer, editor and diplomatist; b. 1918; ed. Peddie School, New Jersey, and St. John's Coll. Cambridge. Called to Panamanian Bar 1939; Editor El Panamá-América 1942-46; Publisher La Hora 1948-; Del. to UN Assembly 1953; Amb. to U.K. 1955-58, 1960-62; Deputy to Nat. Assembly of Panama 1964-68. *Address:* Apdo. 6307, Panama City, Panama.

ARIAS E., Ricardo M.; Panamanian diplomatist, politician and businessman; b. 1912, in Embassy of Panama, Washington, D.C., U.S.A.; s. of Francisco Arias Paredes and Carmen Espinosa de Arias; m. Olga Arias; two s. two d.; ed. Colegio La Salle, Panama, Shenandoah Valley Acad., Va., Georgetown Univ., Washington, D.C., U.S.A. and Univ. Católica de Chile. Mem. Nat. Electoral Jury 1944-48; Minister of Agriculture, Commerce and Industries 1949-51, of Labour, Health and Social Welfare 1952-55; Second Vice-Pres. of the Republic 1952-55, Acting Pres. Sept. 1954; Minister of Foreign Affairs Jan. 1955; Pres. of the Republic of Panama 1955-56; fmr. Ambassador to U.S.A. and to OAS; Rep. to Int. Bank for Reconstruction and Development 1956; defeated candidate, Presidential election May 1960; Amb. to U.S.A. 1964-68; Exec. Vice-

Pres. DISA, S.A. 1968-; Leader, Coalición Patriótica Nacional; Pres. Sociedad Ganadera (Cattle Assn.), Cía. Panameña de Aviación; Hon. LL.D. (Rockhurst Coll.); numerous Panamanian and foreign orders. *Leisure interest:* golf. *Address:* Apdo. 4549, Panama City, Panama.

ARIAS NAVARRO, Carlos; Spanish lawyer and politician; b. 11 Dec. 1908. Legal Asst., Ministry of Justice; Public Prosecutions Dept., Supreme Court; Civil Gov. León Prov. 1944-49, Navarre 1949; Dir.-Gen. of Security 1957; Mayor of Madrid 1965-73; Minister of Interior June-Dec. 1973; Prime Minister 1974-76; mem. Popular Alliance Party. *Address:* c/o Oficina del Presidente del Gobierno, Madrid, Spain.

ARIBURUN, Gen. Tekin; Turkish politician; b. 1905, Istip, Yugoslavia; ed. Kulei and Konya Mil. Schools, Harbiye (Mil.) Coll. and War Acad. Staff Officer in Turkish Air Force; served as first Turkish Air Attaché in Germany, U.S.A.; promoted to rank of Brig.-Gen. 1950, Gen. 1959; Commdr. Turkish Air Force 1959-60, retd.; Senator for Istanbul 1964-; Speaker of Senate 1970-77; Candidate for Presidency 1973; Justice Party. *Address:* Cumhuriyet Senatosu, Ankara, Turkey.

ARIAS MADRID, Arnulfo; Panamanian politician; b. 15 Aug. 1901, Penonomé; ed. Univ. of Chicago and Harvard Univ. School of Dental Medicine; founder and leader True Nat. Revolutionary Party in 1920s (re-named Partido Panameñista 1963); Pres. of Panama 1940-41; banished and in exile 1941-45; Pres. of Panama 1949-51; deposed and deprived of citizenship 1951; Pres. of Panama Oct. 1968 (deposed after eleven days). *Address:* c/o Partido Panameñista, Panama City, Panama.

ARIKPO, Okoi, PH.D.; Nigerian politician; b. 1916; Ugep, E. Nigeria; ed. Nigeria, and Univ. of London; teacher, Univ. of London 1949-51; mem. E. Nigeria House of Assembly 1952, later mem. Fed. House of Reps. until 1954; later Minister of Lands and Mines; scientist and teacher 1961-67; Fed. Commr. for Trade June 1967-Sept. 1968; Fed. Commr. for External Affairs Sept. 1968-75; Sec. Nigerian Univ. Comm. *Address:* c/o Federal Ministry for External Affairs, Lagos, Nigeria.

ARISTOV, Boris Ivanovich; Soviet politician; b. 1925; ed. Ulyanov Electrotechnical Inst., Leningrad; war service 1942-45; Electrical assembler, engineer, chief technologist Svetlana Factory, Leningrad 1947-52; mem. CPSU 1945-; State and party official 1952-; Deputy Chair. Leningrad City Soviet exec. cttee. 1969-71, First Sec. 1971-78; Amb. to Poland 1978-; mem. Cen. Cttee. CPSU 1971-; Deputy to Supreme Soviet of the U.S.S.R.; various decorations. *Address:* Embassy of the U.S.S.R., Warsaw, Poland.

ARIYOSHI, George Ryoichi, JU.D.; American politician; b. 12 March 1926, Honolulu, Hawaii; s. of Ryozo Ariyoshi and Mitsue (Yoshikawa) Ariyoshi; two s. one d.; ed. McKinley High School, Honolulu, Michigan State Univ. and Univ. of Michigan Law School; private law practice, Honolulu 1953-70; mem. Territorial House of Reps. 1954-58, of Territorial Senate 1959, of State Senate 1960-70; Lieut. Gov. 1970-74, Gov. of State of Hawaii 1974-; Distinguished Alumni Awards, Univ. of Hawaii and Michigan State Univ.; Hon. LL.D. (Univ. of the Philippines); Hon. LL.D. (Guam). *Leisure interest:* sports. *Address:* Executive Chambers, State Capitol, Honolulu, Hawaii 96813, U.S.A. *Telephone:* (808) 548-5420.

ARKADIEV, Georgiy Petrovich; Soviet diplomatist; b. 5 Feb. 1905, Pokhvistnevo Village, Kuibichev Region; ed. Economic and Diplomatic Inst; publishing and pedagogical activities 1919-36; joined Soviet diplomatic service 1936; People's Commissariat for Foreign Affairs 1937-44; Ministry of Foreign Affairs 1944-47; Soviet Mil. Administration, Germany 1947-49; Counsellor, U.S.S.R. Diplomatic Mission to G.D.R. 1949-51; Foreign Ministry U.S.S.R. 1951-52, Chief U.S.A. Dept. 1952-53; Ambassador to Norway 1954-56; Dep. Perm. U.S.S.R. Rep. to UN 1956-60; Under-Sec. UN, Head Dept. of Political and Security Council Affairs 1960-61, resigned 1962; Head, Dept. of Int. Econ. Orgs. of Ministry of Foreign Affairs 1962-66; Perm. Rep. of U.S.S.R. to IAEA, Vienna 1966; Perm. U.S.S.R. Rep. at Int. Orgs. in Vienna 1968-75. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

ARKELL, John Heward, C.B.E., T.D., M.A., F.B.I.M.; British business executive; b. 20 May 1909, Tytherington, Glos.; s. of Rev. H.H. Arkell, M.A. and Gertrude M. (née Heward) Arkell; m. 1st Helen B. Huitfeldt 1940, 2nd Meta B. Grundtvig; three s. one d.; ed. Dragon School, Oxford, Radley Coll. and Christ Church, Oxford. Sec. Sir Max Michaelis (Investment) Trust 1931-37; Asst. Sec. Council for the Protection of Rural England 1937-39; army service 1939-45; Personnel Man., J. Lyons & Co. Ltd. 1945-49; Controller of Staff Admin., BBC 1949-58, Dir. 1958-60; Dir. of Admin. BBC 1960-70; Chair. Air Transport and Travel Industry Training Board 1970-; Lay mem. Nat. Industrial Relations Court 1971-74; Dir. Boots Co. Ltd. 1970-, The Coates Group of Companies 1970-76, U.K. Provident Inst. 1971-; Chair. British Inst. of Management 1972-74; mem. Council of CBI 1972; Fellow, Royal Coll. of Arts 1973; Visiting Fellow, Admin. Staff Coll., Henley-on-Thames 1971-; Vice-Pres. Council for Protection of Rural England 1975-; Fellow Inst. of Personnel Man. 1974-; mem. Final Selection Board, Civil Service Comm. 1978-; Gov. Radley Coll. 1975-70. *Leisure interests:* walking, sailing, swimming, riding, music. *Address:* Pinnocks, Fawley, Henley-on-Thames, Oxon, England. *Telephone:* Henley 3017.

ARKIN, Alan Wolf; American actor and director; b. 26 March, 1934; s. of David and Beatrice Arkin; m. Barbara Dana, one s; two s. from first marriage; ed. Los Angeles City Coll., Los Angeles State Coll., Bennington Coll.; made professional theatre début with the Compass Players, St. Louis 1959; later joined Second City group, Chicago 1960; made New York début at Royal, in revue From the Second City 1961; played David Kolvitz in Enter Laughing 1963-64; appeared in revue A View Under The Bridge, 1964; Harry Berline in Luv; dir. Eh? at the Circle in the Square, 1966; Hail Scrawdyke 1966, Little Murders, 1969, White House Murder Case 1970; dir. The Sunshine Boys 1972; toured as Harold Gould in The Opening 1972; dir. Molly 1973, Joan Lorraine 1974; films include The Russians Are Coming, the Russians Are Coming 1966, Women Times Seven 1967, Wait Until Dark 1967, Inspector Clouseau 1968, The Heart is a Lonely Hunter 1968, Popi 1969, Catch 22 1970, Little Murders 1971, Last of the Red Hot Lovers 1972, Freebie and the Bean 1974, Ratterty and the Gold Dust Twins 1975, Hearts of the West 1975; TV appearances include: The Love Song of Barney Kempinski 1966, The Other Side of Hell 1978, The Defection of Simas Kudirka 1978; Theatre World Award 1964 for Enter Laughing. New York Film Critics Award Best Supporting Actor for Hearts of the West. *Address:* c/o Robinson and Associates, 132 S Rodeo Drive, Beverley Hills, Calif., U.S.A.

ARLAND, Marcel; French novelist and essayist; b. 5 July 1899, Varennes-sur-Amance; s. of Victor Arland and Naomie (née Vincent) Arland; m. Janine Béraud 1930; ed. Collège de Langres, Univ. of Paris; teacher, Collège du Montcel, Jony-en-Josas 1924-29; winner Goncourt Prize 1929, Grand Prix de Littérature de l'Acad. Française 1952, Grand Prix Nat. des Lettres 1960; Dir. of La nouvelle revue française; mem. Acad. Française; Commdr. de la Légion d'honneur. *Publications:* Novels: Terres étrangères 1924, Etienne 1925, Monique 1926, Les âmes en peine 1927, L'ordre 1929 (Goncourt Prize), Antarès 1932, Les vivants 1933, La vigie 1935, Les plus beaux de nos jours 1938, Terre natale 1938, La grâce 1939, Zélie dans le désert 1944, Il faut de tout pour faire un monde 1947, La consolation du voyageur 1952, L'eau et le feu 1956, A perdre haleine 1960, Le grand pardon 1956, La musique des anges 1967, Attendez l'aube 1970; Essays: Etapes, Edith, La route obscure 1925, Où le cœur se partage 1927, Essais critiques 1931, Le promeneur 1944, Les échanges 1945, Pascal 1947, Marivaux 1949, Anthologie de la Poésie française 1941, La prose française: anthologie, histoire et critique d'un art 1951, Je vous écris...1960, La nuit et les sources 1962, Carnets de Gilbert 1967, Proche du silence 1973, Avons-nous vécu? 1977. *Address:* 9 rue Saint-Romain, Paris 6e, France.

ARLETTY (pseudonym of Léonie Bathiat); French actress; b. 15 May 1898, Courbevoie; d. of Michel Bathiat and Marie (née Dautreix) Bathiat; on stage has played in Le bonheur mesdames, Fric-frac and Un tramway nommé Désir, La descente d'Orphée (Tennessee Williams) 1959, Un otage at Théâtre de France 1962, L'étouffé chrétien 1962, Les monstres sacrés 1966; played title role in Phèdre on radio; has made a number of films including Hôtel du nord 1938, Le jour se lève 1939, Fric-frac 1939, Circonstances atténuantes 1939, Madame Sans-Gêne 1941, Les visiteurs du soir 1942, Les enfants du paradis 1944, Maxime 1959, Huis clos 1959, La gamberge 1961, Le jour le plus long 1961, Tempo di Roma 1962, Le voyage à Biarritz 1962, Gibier de potence. *Publication:* La défense 1971. *Address:* 14 rue de Rémusat, 75016 Paris, France. *Telephone:* 288-91-63.

ARMITAGE, Sir Arthur, Kt., M.A., LL.D.; British professor and university administrator; b. 1 Aug. 1916, Marsden, Yorks; s. of Kenyon Armitage; m. Joan Kenyon Marcroft 1940; two d.; ed. Oldham Hulme Grammar School and Queens' Coll., Cambridge. Fellow of Queens' Coll., Cambridge 1945-58, Pres. 1958-70, Lecturer in Law 1947-70, Vice-Chancellor Univ. of Cambridge 1965-67; Vice-Chancellor Univ. of Manchester 1970-; Prof. of Common Law 1970–; Commonwealth Fund Fellow at Yale Univ. 1937-39. *Publications:* Case Book on Criminal Law (with J. W. C. Turner), Clerk & Lindsell on Torts (Joint Editor). *Address:* Office of the Vice-Chancellor, University of Manchester, Oxford Road, Manchester, M13 9PL (Office); The Firs, Fallowfield, Manchester, M14 6HE, England (Home). *Telephone:* 061-273-3333 (Office).

ARMITAGE, Kenneth, C.B.E.; British sculptor; b. 18 July 1916; ed. Leeds Coll. of Art and Slade School, London; teacher of Sculpture, Bath Acad. of Art 1947-56; Gregory Fellowship, Leeds Univ. 1953; British Council Visitor in Sculpture to Venezuela 1963-64; One-man exhbns. London 1952, 1957, 1962, 1965, New York 1954, 1956, 1958, 1962, Retrospective exhbn. Whitechapel Art Gallery, London 1959, represented at Venice Biennale 1958; Guest Artist, City of Berlin 1967-69; Hakone Open-Air Sculpture, Japan 1969; many groups exhbns. in America and Europe; works in public collections in Belgium, France, Germany, Italy, Netherlands, Switzerland, U.K., U.S.A., Venezuela; David Bright Prize Venice Biennale 1958. *Address:* 22A Avonmore Road, London, W.14, England.

ARMSTRONG, Mrs. Anne Legendre, B.A.; American company director, politician and diplomat; b. 27 Dec. 1927, New Orleans, La.; d. of Armant and Olive Legendre; m. Tobin Armstrong 1950; three s. two d.; ed. Foxcroft School, Middleburg, Va., and Va-ssar Coll. Chair. Kenedy Co. (Tex.) Republican Party 1958-61; Deputy Vice-Chair. Texas Republican Party 1965-66, State Vice-Chair. 1966-68; Del. Nat. Convention 1964, 1968, 1972; mem. Republican Nat. Cttee. 1968-73, Co-Chair. 1971-73, mem. Exec. Cttee. 1971-73, Co-Chair, Exec. Cttee. 1971-72; Counsellor to Pres. Nixon with cabinet rank 1973-74; Counsellor to Pres. Ford with cabinet rank 1974; Chair. Fed. Property Council 1972-74; resigned from govt. service 1974; Amb. to U.K. 1976-77; Edmund A. Walsh Professorial Lecturer in Diplomacy, Georgetown Univ. 1977-; Dir. American Express Co., American Express Int. Banking Corpn. 1975-76, Braniff Int. Corpn., First City Bancorporation of Tex., Halliburton, Gen. Motors, Gen. Foods, Boise Cascade 1977-; Chair. English-Speaking Union of U.S. 1977-; Atlantic Council; Vice-Chair. Advisory Board and Exec. Cttee. Center for Strategic and Int. Studies, Georgetown Univ., Washington, D.C. 1977-; mem. Board of Regents, Smithsonian Inst., 1978-; Trustee Southern Methodist Univ., Dallas, Tex. 1977-; Hon. LL.D. (Bristol, U.K.) 1976, (Washington and Lee) 1976, (Williams Coll., Mass.) 1977. *Address:* Armstrong Ranch, Armstrong, Tex. 78338, U.S.A.

ARMSTRONG, John Archibald, B.SC.; Canadian oil company executive; b. 24 March 1917, Dauphin, Man.; s. of Herbert Humphrey and Louisa Isabella (née McDonald) Armstrong; m. June Keith 1943; three s.; ed. Univ. of Manitoba, Queen's Univ.; joined Imperial Oil Ltd. as geologist 1940, Exploration Geophysicist 1940-49, Exploration Man., Edmonton 1951, Asst. Regional Man., Producing Dept., Calgary 1954, Gen. Man. Toronto 1960, Dir. Imperial Oil Ltd. 1961, Exec. Vice-Pres. 1966, Pres. 1970-; Chief Exec. Officer 1973-; Vice-Chair Bd. of Trustees, Fraser Inst.; Dir. Royal Bank of Canada; Hon. LL.D. (Winnipeg). *Address:* 111 St. Clair Avenue West, Toronto, Ontario, Canada M5W 1K3 (Office). *Telephone:* (416) 924-9111 (Office).

ARMSTRONG, Neil A.; American astronaut and professor of engineering; b. 5 Aug. 1930, Wapakoneta, Ohio; m. Janet Shearon; two s.; ed. Purdue Univ. and Univ. of Southern California; naval aviator 1949-52, flew combat missions during Korean War; joined NASA Lewis Flight Propulsion Laboratory 1955, later transferred to NASA High Speed Flight Station, Edwards, Calif., as aeronautical research pilot, was X-15 project pilot flying to over 200,000 ft. and at approx. 4,000 m.p.h.; other flight test work included X-1 rocket research plane, F-100, F-101, F-104, F5D, B-47 and the paraglider; selected as astronaut by NASA Sept. 1962; command pilot for Gemini VIII 1966; backup pilot for Gemini V 1965, Gemini XI 1966; flew to the moon in Apollo XI July 1969, first man to set foot on the moon 20 July 1969; Chair. Peace Corps Nat. Advisory Council 1969; Deputy Assoc. Admin. for Aeronautics, NASA, Washington 1970-71; Prof. of Engineering, Univ. of Cincinnati 1971-; Fellow, Soc. of Experimental Test Pilots, American Inst. of Aeronautics and Astronautics; hon. mem. Int. Acad. of Astronautics, Int. Astron. Fed.; numerous decorations and awards from 17 countries including Presidential Medal of Freedom, NASA Exceptional Service Award, Royal Geographical Soc. Gold Metal and Harmon Int. Aviation Trophy 1970. *Address:* Department of Engineering, University of Cincinnati, Cincinnati, Ohio 45221, U.S.A.

ARMSTRONG, Sir Thomas Henry Wait, D.MUS., F.R.C.M.; British musician; b. 15 June 1898; ed. Keble Coll., Oxford and Royal Coll. of Music. Organist Thorney Abbey 1914; Sub-Organist, Peterborough Cathedral 1915; served R.G.A. 1917-19; Sub-Organist, Manchester Cathedral 1922; Organist, St. Peter's, Eaton Square 1923; Organist, Exeter Cathedral 1928; Cramb Lecturer in Music, Univ. of Glasgow 1949; Student of Christ Church, Oxford 1939-55; Student Emeritus 1955-; Choragus of the Univ. and Lecturer in Music 1937-54; Conductor of Oxford Bach Choir and Oxford Orchestral Soc.; Organist, Christ Church, Oxford 1953-55; Principal, Royal Acad. of Music 1955-68; Hon. F.R.C.O., F.R.A.M. *Address:* The Old Rectory, Newton Blossomville, nr. Turvey, Beds. England.

ARMSTRONG OF SANDERSTEAD, Baron (Life Peer), cr. 1975, of the City of Westminster; **William Armstrong,** P.C., G.C.B., M.V.O., M.A.; British businessman and fmr. civil servant; b. 3 March 1915, London; s. of William and Priscilla (née Hopkins) Armstrong; m. Gwendoline Enid Bennett 1942; one s. one d.; ed. Bec School, London and Exeter Coll., Oxford. Civil Service (Board of Educ., Cabinet Office, Treasury) 1938-68; Perm. Sec. to Civil Service Dept. and Head of Civil Service 1968-74; Dir. and Deputy Chair., Midland Bank Ltd., 1974-75; Chair. 1975-; Chair. Midland and Int. Banks Ltd. 1976-; Deputy Chair. Cttee. of London Clearing Bankers 1976-78, Chair. 1978-; Dir. Shell Transport and Trading Co. Ltd. 1976-; Pres. Manpower Soc. 1970-73; Vice-Pres. Soc. of Business Economists 1978-; Chair. Cttee. on Budgetary Reform 1978-, Coll. Council, Mansfield Coll., Oxford; mem. Council, Manchester Business School 1970-74, Governing Council, Oxford Centre for Management Studies; Visiting Fellow, Nuffield Coll., Oxford 1964-72; Hon. Fellow, Exeter Coll., Oxford 1963, Inst. of Civil Engineers 1973, Imperial Coll. of Science and Tech. 1977; Trustee Wellcome Trust 1974-; Civic Trust 1975-; Hon. Liveryman of Salters' Company 1974-; Hon. D.C.L. (Oxford) 1971; Hon. D.Litt (City Univ.) 1974; Hon. Degrees Open Univ. 1974, Cranfield Inst. of Tech. 1975, Heriot-Watt 1975, Sheffield 1975. *Leisure interests:* talking, walking, reading. *Address:* Midland Bank Ltd., 27-32 Poultry, London EC2P 2BX, England (Office). *Telephone:* 01-606 9911.

ARNAIL, Ellis Gibbs; American politician and lawyer; b. 20 March 1907, Newnan, Ga.; s. of Joseph Gibbs and Bessie Ellis Arnail; m. Mildred Delaney Slemons 1935; one s. one d.; ed. Mercer Univ., Univ. of the South (Sewanee), and Georgia Univ.; mem. Georgia legislature; Asst. Attorney-Gen. 1937-39; Attorney-Gen. 1939-43; Gov. of Georgia 1943-47; Pres. Soc. of Ind. Motion Picture Producers 1943-67; Senior Partner Law Firm Arnall, Golden and Gregory; mem. U.S. Del. to 4th annual conf. UNESCO, Paris 1949; U.S. Del. Anglo-American Film Conf., London 1950; Trustee Univ. of the South, Mercer Univ.; Dir. U.S. Office of Price Stabilization 1952; Pres. Ind. Film Producers' Export Assn. 1956-; Chair. Board of Dirs. Nat. Assn. of Life Insurance Companies; Chair. Board of Dir. Coastal States Life Insurance; Dir. First Nat. Bank; Dir. of numerous other companies; mem. U.S. Nat. Comm. for UNESCO 1963-72. *Publications:* The Shore Dimly Seen 1946, What the People Want 1947. *Address:* Arnall, Golden & Gregory, 10th Floor, Fulton Federal Building, Atlanta, Ga. 30303, U.S.A. (Office). 213 Jackson Street, Newnan, Ga. 30263 (Home). *Telephone:* 404-577 5100 (Office).

ÁRNASON, Tómas; Icelandic politician; b. 21 July 1923, Seydisfjördur; s. of Árni Vilhjálmsson and Gudrun (née Thorvardardóttir) Árnason; m. Thora Kristín Eiríksdóttir 1949; four s.; ed. Univ. of Iceland, Harvard Law School. Advocate at Akureyri 1949-51 and 1952-53; Advocate, Supreme Court 1964-72; Chief, Div. of Defence Affairs, Ministry of Foreign Affairs 1953-60; mem. of Parl. 1956, 1958, 1959, 1968-73, 1974-; Minister of Finance 1978-; Man. Dir. of newspaper Tíminn 1960-64; Man. Dir. Econ. Devt. Inst. 1972-78; mem. del. to UN; mem. del. to North Atlantic Ass. 1974-; mem. Central Cttee. of Progressive Party, Cashier 1968-. *Leisure interests:* golf, fishing. *Address:* Ministry of Finance, Arnarhvoll, Reykjavík. Hraunbraut 20, 200 Kópavogur, Iceland (Home). *Telephone:* 25000 (Office): 40972 (Home).

ARNAUD, Claude; French diplomatist; b. 9 Nov. 1919, Voiteur (Jura); s. of Dr. Paul Arnaud, M.D.; m. 1st Sonia Larrain Beutner 1962; m. 2nd Christiane Guida 1972, one s. one d.; ed. Univs. of Dijon, Lyon and Paris (Sorbonne). Attaché, Washington, 1945-46; Office of Resident-Gen. in Morocco 1946-51; First Sec. Bonn 1952-55; Econ. Dept., Foreign Office, Paris 1955-59; Counsellor, Chargé d'affaires, Belgrade 1959-62; Minister-Counsellor, Perm. Mission to UN 1962-65; Amb. to Laos Jan. 1966-68, to Kenya 1968-69; Dir. European Dept., Ministry of Foreign Affairs 1969-72, Asst. Dir. for Political Affairs 1972-75; Amb. to People's Repub. of China 1975-; Officier Légion d'honneur, Croix de guerre 1939-45, Officier Ordre nationale du Mérite. *Address:* French Embassy, 3, San Li Tun, Peking, People's Repub. of China; and 3 rue La Pérouse, Paris 16, France.

ARNDT, Otto; German building mechanic, railway engineer and politician; b. 19 July 1920, Aschersleben. General Manager Deutsche Reichsbahn (G.D.R. Railways), Berlin 1961-64; Deputy Minister of Transport 1964-70, Minister 1971-; mem. German Communist Party (KPD) 1945; mem. Cen. Cttee. Socialist Unity Party of Germany (SED) 1971-; decorations include Vaterländische Verdienstorden in Bronze, Orden Banner der Arbeit. *Address:* Ministerium für Verkehr, Berlin, German Democratic Republic.

ARNOLD, James R., M.A., PH.D.; American professor of chemistry; b. 5 May 1923, Metuchen, N.J.; s. of Abraham S. and Julia J.

Arnold; m. Louise C. Arnold 1952; three s.; ed. Princeton Univ. Asst. Princeton 1943, Manhattan Project 1943-46; Fellow, Inst. of Nuclear Studies, Univ. of Chicago 1946; Nat. Research Fellow, Harvard 1955-57; Assoc. Prof., Dept. of Chem., Univ. of Calif., San Diego 1958-60, Prof. 1960-; recipient of lunar samples from missions of Apollo XI, XII, XIV, XV; member of N.A.S., A.A.A.S., A.C.S., American Acad. of Arts and Sciences; Nat. Council of World Federalists 1970-; Guggenheim Fellow, India 1972-73; specialized in field of cosmic-ray produced nuclides, meteorites, lunar samples and cosmochemistry. *Publications:* over fifty articles in scientific reviews and journals. *Address:* Department of Chemistry, University of California, San Diego, La Jolla, Calif. 92037, U.S.A. *Telephone:* 714-452 2908.

ARNOLD, Malcolm, C.B.E.; British composer; b. 21 Oct. 1921, Northampton; s. of William and Annie Arnold; two s. one d.; ed. Royal Coll. of Music, London. Principal Trumpet, London Philharmonic Orchestra 1942-44 and 1946-68; served army 1944-46; full-time composer and conductor 1948-; awarded Cobbett Prize 1941, Mendelssohn Scholarship 1948; Hon. D.Mus. (Exeter), Bard of the Cornish Gorsedd. *Works include:* Beckus the Dandipratt (overture) 1943, and 8 other overtures; 1st Symphony 1949, 2nd Symphony 1953, 3rd Symphony 1957, 4th Symphony 1960, 5th Symphony 1961, 6th Symphony 1967, 7th Symphony 1973; 15 concertos; Homage to the Queen, Coronation Ballet performed at Covent Garden 1953, and 4 other ballets; chamber music, vocal music, brass brand music; film music Bridge on the River Kwai 1958 (Hollywood Oscar), Inn of the Sixth Happiness (Ivor Novello Award) 1959. *Leisure interests:* reading and conversation. *Address:* 4 De Vesci Terrace, Dun Laoghaire, Co. Dublin, Ireland.

ARNON, Daniel I(srael), PH.D.; American biochemist; b. 14 Nov. 1910, Poland; s. of Leon and Rachel (Chodes) Arnon; m. Lucile Jane Soule 1940; two s. three d.; ed. Univ. of California, Berkeley. Instructor to Asst. Prof., Univ. of Calif., Berkeley 1936-43; Lieut. to Major U.S. Army and Air Force 1943-46; Assoc. Prof., Berkeley 1946-50; Guggenheim Fellow, Cambridge Univ. 1947-48; Prof. of Plant Physiology, Univ. of Calif., Berkeley 1950-60, Prof. of Cell Physiology 1961-; Research Biochemist 1978-, Founding Chair. Dept. of Cell Physiology 1961-78, Biochemist in Calif. Agric. Experimental Station 1958-78; Fulbright Guest Investigator, Max-Planck Inst. für Zellphysiologie, Berlin-Dahlem 1955-56; Guggenheim Fellow 1962-63; mem. N.A.S., Fellow A.A.A.S., American Acad. of Arts and Sciences; mem. A.C.S., American Soc. Photobiology, American Soc. Biological Chem., Biochem. Soc. (London), American Soc. Plant Physiology (Pres. 1952-53), Scandinavian Soc. Plant Physiology; Foreign mem. Royal Swedish Acad. of Sciences, Acad. d'Agriculture de France, Deutsche Akademie der Naturforscher Leopoldina; Hon. mem. Spanish Biochemical Society 1975–; Charles F. Kettering Award in Photosynthesis; Newcomb Cleveland Prize; Gold Medal, Univ. of Pisa; Stephen Hales Award, American Soc. of Plant Physiologists; Nat. Medal of Science (U.S.A.) 1973; Dr. h.c. Bordeaux 1975. *Publications:* over 250 articles on photosynthesis and related subjects. *Leisure interests:* swimming, jogging, classical music. *Address:* Department of Cell Physiology, Hilgard Hall, University of California, Berkeley, Calif. 94720 (Office); 28 Norwood Avenue, Berkeley, Calif. 94707, U.S.A. (Home). *Telephone:* 415-642-3684 (Office); 415-526-5575 (Home).

ARNOUL, Françoise (Françoise Gautsch); French actress; b. 9 June 1931; ed. Lycée de Rabat, Lycée Molière (Paris) and Paris Conservatoire; *films include* Nous irons à Paris, La maison Bonnadieu, Le désir et l'amour, La plus belle fille du monde, Les compagnons de la nuit, Les amants du Tage, French-Cancan, Des gens sans importance, Thérèse Etienne, La chatte, Asphalte, La bête à l'affût, Le bal des espions, La chatte sort ses griffes, La morte-saison des amours, Le testament d'Orphée, Les Parisiennes, Dimanche de la vie, Le Congrès s'amuse, Españolas en Paris 1970, Van der Valk 1972, Dialogue d'exiles 1975; theatre debut in Les Justes (Camus) Versailles 1966. *Address:* 32 rue Monsieur-le-Prince, Paris 6e, France.

ARNOULD, Reynold; French artist and museum curator; b. 7 Dec. 1919, Le Havre (Seine-Inférieure); s. of Henry Arnould and Henriette Cholley; m. Marthe Bourhis 1945; ed. Lycée Corneille, Ecole des Beaux-Arts, Rouen, Ecole Supérieure des Beaux-Arts; information mission in U.S.A. 1945-46; Dir. School of Art, Baylor Univ., Tex. 1949-52, Baylor Univ. Summer Arts School, Paris 1952; Dir. and Curator, Le Havre museums 1952-65; Dir. Maison de la Culture, Le Havre 1961-63; in charge of re-organizing Galeries nationales du Grand-Palais, Paris 1964-65, Curator-in-Chief 1965-; participated in numerous exhbns. of modern French art in Paris and abroad, and in exhbn. of Aubusson tapestries 1963-64; exhbn. in Musée des arts décoratifs called Reynold Arnould, forces et rythmes de l'industrie; works in Musée d'art moderne, Paris and in museums and art galleries in the U.K., U.S.A., Belgium, France, Italy, Norway and Switzerland; Second Prix de Rome 1938, Grand Prix de Rome 1939; Chevalier de la Légion d'honneur, Chevalier de l'Ordre nationale du Mérite, Officier des Arts et des Lettres. *Leisure interests:* sport, swimming. *Address:* Grand-Palais, porte A, avenue de Selves, 75008, Paris (Office); 5 rue Eugène-Delacroix, 75016 Paris, France (Home).

ARNS, H.E. Cardinal Paulo Evaristo; Brazilian ecclesiastic; b. 14 Sept. 1921, Forquilhinha, Criciúma, Santa Catarina; s. of Gabriel and Helena Steiner Arns; ed. Univ. de Paris and Ecole des Hautes Etudes, Paris; taught theology and French Univ. Católica de Petrópolis; pastoral work in Petrópolis; Aux. Bishop of São Paulo 66; Archbishop of São Paulo, Metropolitan Bishop of São Paulo 1970; Pres. Bishop's Conf. of São Paulo State; Grand Chancellor of Pontificia Univ. Católica de São Paulo; mem. Secr. for Non-Believers (Vatican); cr. Cardinal by Pope Paul VI 1973; Hon. LL.D. (Notre Dame, Ind., U.S.A.). *Publications:* numerous works and translations on religious and racial topics, including A Quem iremos, Senhor? 1968, Comunidade: União e Ação 1972, Sê Fiel 1977, Em Defesa dos Direitos Humanos 1978, Convite para Rezar 1978, Presença e Força do Cristão 1978. *Address:* Rua Mococa 71, 01255 São Paulo; S.P., Brazil. *Telephone:* 62-6817.

ARON, Raymond Claude Ferdinand, LITT.D.; French journalist and university professor; b. 14 March 1905, Paris; m. Suzanne Gauchon 1933; two d.; ed. Univ. de Paris. Lecturer, Univ. of Cologne 1930-31; on staff, French Inst., Berlin 1931-33; Prof. Lycée du Havre 1933-34; Sec. Centre of Social Information, Ecole Normale Supérieure 1934-39; Prof. Univ. of Toulouse 1939; Editor La France Libre, London 1940-44; on staff Combat 1946, Figaro 1947-77, Express 77-; Prof. Inst. d'Etudes politiques and Sorbonne; Prof. Collège de France 1970; Prof.-at-Large, Cornell Univ., mem. Académie des Sciences morales et politiques 1963-; Foreign Hon. mem. American Acad. Arts and Sciences 1961-; mem. American Philosophical Soc., British Acad.; Officier, Légion d'honneur; Prix des Ambassadeurs 1962; Prix Montaigne 1968; Hon. Ph.D. (Harvard, Basel, Brussels, Columbia, Southampton, Oxford, Jerusalem, Louvain and Seoul). *Publications:* Introduction à la philosophie de l'histoire 1938, La sociologie allemande contemporaine 1935, Le grand schisme 1948, Les guerres en chaîne 1951, L'opium des intellectuels 1955, La tragédie algérienne 1957, Paix et guerre entre les nations 1962, Dix-huit leçons sur la Société industrielle 1963, La lutte des classes 1964, Démocratie et totalitarisme 1965, Trois essais sur l'age industriel 1966, Les etapes de la pensée sociologique 1967, Les désillusions du progrès 1969, République impériale 1973, Histoire et dialectique de la violence 1973, Penser la guerre, Clausewitz 1976, Plaidoyer pour l'Europe décadente 1977. *Address:* 54 boulevard Raspail, Paris 75006 (Office); 87 boulevard Saint Michel, Paris 5e, France (Home). *Telephone:* 544-39-79.

AROSEMENA GÓMEZ, Otto, LL.D.; Ecuadorean lawyer and politician; b. 1922; fmr. lawyer in Guayaquil; Leader of Coalición Institucionalista Democrática; Provisional Pres. of Ecuador 1966-68. *Address:* c/o Ministerio de Asuntos Exteriores, Quito, Ecuador.

AROSEMENA MONROY, Carlos Julio, D.IUR.; Ecuadorean politician; b. 1920. Counsellor, Ecuadorean Embassy, Washington 1946-52; Chair. Chamber of Deputies 1952; Minister of Defence 1952-53; Vice-Pres. 1960-61; Pres. of Ecuador 1961-63. *Address:* c/o Ministerio de Asuntos Exteriores, Quito, Ecuador.

ARPINO, Giovanni; Italian writer; b. 27 Jan. 1927; ed. Univ. degli Studi, Turin; has worked as Editor for Einaudi and Editoriale Zanichelli; has contributed to Il Giorno, Paese sera, Paese, Stasera (dailies), Il Mondo, Vie nuove, Mondo Nuovo, Le Ore, Tempo, Illustrazione italiana (periodicals), Botteghe Oscure, Il contemporaneo, Il Ponte, Paragone, Tempo presente, Nuova corrente, Europa letteraria, Itinerari, Cinema nuovo, Questo e altro (cultural magazines); Strega Prize 1964. *Publications:* Sei stato felice (novel) 1952, Barbaresco (poems) 1954, Il prezzo dell'oro (poems) 1955, Gli anni del giudizio (novel) 1958, La suora giovane (novel) 1959, Rafé e Micropiede (for children—Bancarellino Prize) 1960, Mille e una Italia (for children) 1961, Una nuvola d'ira (novel) 1962, L'ombra delle colline (novel—Strega Prize) 1964, Un'anima persa (novel) 1966. *Address:* Via Leopardi 15, Milan, Italy.

ARRABAL, Fernando; Spanish writer; b. 11 Aug. 1932, Melilla; m. Luce Moreau; one s. one d; political prisoner in Spain 1967; now lives in Paris; founder "Panique" movt. with Topor, Jodorowsky, etc.; Grand Prix du Théâtre 1967, Grand Prix Humour Noir 1968. *Publications:* novels: Baal Babylone 1959, The Burial of Sardine 1962, Fêtes et Rites de la Confusion 1965; poetry: Pierre de la folie 1963, 100 Sonnets 1966; plays: The Architect and the Emperor of Assyria, And They Put Handcuffs on the Flowers, Garden of Delights, The Automobile Graveyard, Guernica, The Grand Cere-

monial, and 45 other plays published and performed throughout the world; essays: The Panic, The New York of Arrabal, Letter to General Franco, Fischer 1973; wrote and directed films, Viva la Muerte, J'irai comme un cheval fou, L'arbre de Guernica. *Leisure interest:* chess. *Address:* 2 rue de Vienne, Paris 75008, France. *Telephone:* 5226894.

ARRAU, Claudio; concert pianist; b. 6 Feb. 1903, Chillán, Chile; s. of Carlos and Lucretia Arrau; m. Ruth Schneider 1938; two s. one d.; ed. privately; gave first concert at age of five in Santiago; Buenos Aires debut at age of seven; studied in Berlin with Martin Krause (pupil of Liszt) 1910-15; first American concerts 1923, returned 1941 and annual tours since; world tours include Russia 1929, 1930, 1968, Australia 1947, 1952, 1958, 1968, 1974, South Africa 1949, 1952, 1956, South America, Mexico and Israel 1951, 1953, 1962, 1970, India, Sri Lanka and Singapore 1955, 1956, Japan 1965, 1970, 1972; bi-annual European tours; awarded Liszt and Ibach prizes 1912, 1916 and 1917; First Prize Concours International des Pianistes de Genève 1927. *Publications:* Beethoven Piano Sonatas Vol. I 1974, Vol. II 1975. *Leisure interests:* books, gardening, art, antiques. *Address:* c/o Hurok Concerts, 1370 Avenue of the Americas, New York, N.Y., U.S.A.

ARRIAGA, General Kaúlza de; Portuguese army officer; b. 18 Jan. 1915, Oporto; ed. Univ. of Oporto, Portuguese Mil. Acad. and Portuguese Inst. for Higher Mil. Studies. Instructor, Field School for Mil. Engineers 1939-45; attended Gen. Staff Course 1945-49; Lisbon Mil. H.Q. and Army Gen. Staff 1949-50; at Ministry for Nat. Defence and Rep. of Minister of Defence in Tech. Comm. for External Econ. Co-operation 1950-53; Head of Office of Minister of Nat. Defence and Min. of Defence Rep. at Tech. Comm. for External Co-operation and Atomic Energy Board 1954-55; Under-Sec. of State for Aeronautics, later Sec. 1955-62; High Command Course 1963-64; Brig. 1964; Prof. of Strategy and Tactics, Inst. for High Mil. Studies 1964-66; Chair. Atomic Energy Board 1967; Gen. 1968; Commdr. all Portuguese Ground Forces in Mozambique 1969-70; C.-in-C. Portuguese Forces in Mozambique 1970-73; retired May 1974; arrested Sept. 1974, released Jan. 1976; mem. Overseas Council 1965-69; Chair. Exec. Cttee. Soc. Portuguesa de Exploração de Petróleos (ANGOL) 1966-69; Pres. Equestrian Fed. 1968; several Portuguese and foreign decorations. *Publications include:* works on engineering, atomic energy and military affairs. *Address:* c/o Junta de Energia Nuclear, Rua de S. Pedro de Alcântara 79, Lisbon, Portugal.

ARRIGHI DE CASANOVA, Emile, D.IUR.; French civil servant and financial executive; b. 21 Oct. 1920, Bastia, Corsica; s. of Pierre and Catherine (Paoli) Arrighi de Casanova; m. Geneviève Barthelemy 1946; four c.; ed. Lycée Mignet, Univ. of Aix-en-Provence. Director of Internal Trade, Ministry of Industry and Trade 1951-59; Dir. of Industrial Expansion, Ministry of Industry 1959-65; Dir.-Gen. Chamber of Commerce and Industry of Paris 1965-77; Chair. Econ. and Social Cttee. for Corsica 1974-; Conseiller d'Etat en Service extraordinaire 1976-; Chair. Soc. du Marché d'Interêt national de Rungis 1977-; Officier de la Légion d'honneur; Commdr. Ordre nat. du Mérite. *Address:* 7 rue Molitor, 75016 Paris, France.

ARRON, Henck Alphonsus Eugène; Surinam politician; b. 25 April 1936, Paramaribo; s. of J. S. Arron and Mrs. J. Arron-Halfhide; m. Antoinette Emelie Francis Leeuwin 1963; worked at Bank of Amsterdam, Netherlands; joined staff of Vervuurts (now Hakrin) Bank, Surinam; mem. Parl. 1963-; Chair. Nationale Partij Surinam 1970-; Minister of Finance in pre-independence govt. 1973-77; Prime Minister and Minister of Gen. Affairs and Foreign Affairs 1973-; *Leisure interests:* fishing, reading, music, pottery. *Address:* 22 Gravenberchstraat, Paramaribo, Surinam.

ARROW, Kenneth J., PH.D.; American professor of economics; b. 23 Aug. 1921, New York; s. of Harry I. and Lillian Arrow; m. Selma Schweitzer 1947; two s.; ed. The City College, Columbia Univ. Capt. U.S. A.A.F. 1942-46; Research Assoc. Cowles Comm. for Research in Econ., Univ. of Chicago 1947-49; Asst. Assoc. and Prof. of Econs., Statistics and Operations Research, Stanford Univ., 1949-68; Prof. of Econs. Harvard Univ., 1968-79; Prof. of Econs and Operations Research, Stanford Univ., 1979-; mem. N.A.S., American Acad. of Arts and Sciences, American Phil. Soc., Finnish Acad. of Sciences, British Acad.; Hon. LL.D. (City Univ., Univ. of Chicago); Hon. Dr. of Social and Econ. Sciences (Vienna); Hon. Sc.D. (Columbia Univ.) 1973; D.Soc.Sci. (Yale) 1974; Hon. Dr. (Univ. René Descartes) 1974; Hon. LL.D. (Hebrew Univ. Jerusalem) 1975, Hon. D. Pol. Sci. (Helsinki) 1976; Nobel Memorial Prize in Econ. Science 1972. *Publications:* Social Choice and Individual Values 1951, 1963, Studies in the Mathematical Theory of Inventory and Production (with S. Karlin and H. Scarf) 1958, Studies in Linear and Nonlinear Programming (with L. Hurwicz and H. Uzawa) 1958, A Time Series Analysis of Inter-industry Demands (with M. Hoffenberg) 1959, Public Investment, The Rate of Return and Optimal Fiscal Policy (with M. Kurz) 1970, Essays in the Theory of Risk-Bearing 1971, General Competitive Analysis (with F. H. Hahn) 1971, The Limits of Organization 1973; about 120 articles in learned journals. *Leisure interests:* walking, square dancing. *Address:* Stanford Univ., Stanford, Calif. 94305, Mass., 02138 (Office); 6 Walnut Avenue, Cambridge, Mass., 02140, U.S.A. (Home). *Telephone:* 617-868 8994 (Home).

ARRUPE, Father Pedro, S.J.; Spanish ecclesiastic; b. 14 Nov. 1907, Bilbao; s. of Marcelino and María Gondra Arrupe; ed. with Fathers of Escuelas Pías, Bilbao, Univ. of Madrid (Medicine), and Jesuit studies in Spain, Belgium, Netherlands and U.S.A.; entered Society of Jesus 1927; in Japan 1938-65, engaged in parish ministries, training of Novices; was in Hiroshima when first atomic bomb exploded; Provincial Superior 1954-65; Superior-Gen. of Soc. of Jesus 1965-. *Publications*: eight spiritual books (Japanese); Este Japón increíble—Memorias del P. Arrupe, Escala en España, Nuestra vida consagrada, Ante un mundo en cambio (Spanish), Witnessing to Justice (English, Italian, Spanish), Men for Others (English, Italian), Jesuit General in the Philippines, A Planet to Heal, La vida religiosa ante un reto histórico 1978, Hambre de pan y de Evangelico 1978. *Address:* Superiore Generale della Compagnia di Gesù, Borgo Santo Spirito 5, C.P. 6139, 00100 Rome, Italy.

ARTEH GHALIB, Omar; Somali politician; b. 1930, Hargeisa; m.; seven c.; ed. St. Paul's Coll., Cheltenham, U.K. and Univ. of Bristol. Teacher 1946-49; Headmaster, various elementary schools 1949-54; Vice-Principal, Intermediate School, Sheikh, Somalia 1954-56; Principal, Intermediate School, Gabileh 1958; Officer in charge of Adult Educ. 1959; District Commr. in Public Admin. 1960-61; First Sec. Somali Embassy, Moscow 1961-62; Rapporteur, Special Cttee, on South-West Africa, UN 1962-63; Counsellor, Perm. Mission of Somalia at UN 1964; Amb. to Ethiopia 1965-68; mem. Somali Nat. Assembly 1969; Sec. of State for Foreign Affairs 1969-76; Minister of Culture and Higher Education 1976-78, in the President's office 1978-; mem. Cttee. for Social and Political Thought. *Publications include:* Back from the Lion of Judah. *Address:* Office of the President, Mogadishu, Somalia.

ARTHUR, Sir Geoffrey (George), K.C.M.G., M.A.; British diplomatist; b. 19 March 1920, U.K.; s. of late G. J. Arthur; m. Margaret Woodcock 1946; ed. Ashby de la Zouche Grammar School and Christ Church, Oxford; army service 1940-45; joined diplomatic service 1947; posted to Baghdad 1948-50, Ankara 1950-53, Bonn 1956-58, Cairo 1959-63; Foreign Office 1953-55, 1963-66; Amb. to Kuwait 1967-68; Asst. Under-Sec. Foreign and Commonwealth Office 1969-70; Political Resident in the Persian Gulf 1970-72; Visiting Fellow, St. Antony's Coll., Oxford 1972-73; Deputy Under-Sec., Foreign and Commonwealth Office 1973-75; Master Pembroke Coll., Oxford Aug. 1975-; Dir. British Bank of the Middle East 1975-. *Address:* c/o Pembroke College, Oxford, England. *Telephone:* Oxford 42271.

ARTHUR, James Stanley, C.M.G., B.SC.; British diplomatist; b. 3 Feb. 1923; ed. Anderson Educ. Inst., Shetland Isles, Trinity Acad., Edinburgh and Liverpool Univs. Ministry of Education (later Dept. of Educ. and Science) 1947-66, Private Sec. to Parl. Sec. 1949-51, Principal Private Sec. to Minister 1960-63; Foreign Office 1966-67; Counsellor, High Comm., Nairobi 1967-70; Deputy High Commr., Malta 1970-73; High Commr., Fiji 1974-78; High Commr., Barbados 1978-, Dominica 1978-; U.K. Govt. Rep. to West Indies Associated States 1978-; *Address:* c/o Foreign and Commonwealth Office (Bridgetown), King Charles' Street, London, S.W.1, England.

ARUP, Sir Ove Nyquist, Kt., C.B.E., M.ING.F., F.I.C.E., F.I.STRUCT.E., M.I.C.E.I., M.S.A.I.C.E.; British and Danish consulting engineer; b. 16 April 1895, Newcastle upon Tyne, England; s. of Jens Simon Johannes Arup and Mathilde Bolette Nyquist; m. Ruth Samuel Sørensen 1925; one s. two d.; ed. Preparatory School, Hamburg, Germany, Public School, Søro, Denmark, and Univ. of Copenhagen. Designer, Christiani & Nielsen G.m.b.H., Hamburg 1922; Chief Designer, Christiani & Nielsen Ltd., London 1925-34 (Designer 1923-25); Dir. and Chief Designer, J. L. Kier & Co. Ltd., London 1934-38; Dir. Arup Designs Ltd., Arup & Arup Ltd., Pipes Ltd. 1938-45; Senior Partner, Ove Arup and Partners, London, Dublin, W. Africa, S. Africa and Australia 1949-; Senior Partner, Arup Associates 1963-; Consulting Engineer for schools, flats, air-raid shelters, industrial projects, marine work (Air Ministry), hospitals, universities, cathedrals, bridges; Chair, Soc. of Danish Civil Engineers in Great Britain and Ireland 1955-59; Visiting Lecturer, Harvard Univ. 1955; Fellowship of Eng. 1976; mem. Smeatonian Soc. of Civil Engineers 1978; Hon. D.Sc. (Durham, E. Anglia, Heriot-Watt); Commdr. First Class, Order of Dannebrog (Denmark)

1975; Royal Gold Medal, Royal Inst. of British Architects 1966; Gold Medal, Inst. of Structural Engineers 1973. *Publications:* Design, Cost, Construction and Relative Safety of Trench, Surface, Bombproof and other Air Raid Shelters 1939, Safe Housing in Wartime 1941. *Leisure interests:* most things. *Address:* 13 Fitzroy Street, London W.1. (Office); 6 Fitzroy Park, Highgate, London, N.6, England (Home). *Telephone:* 01-636 1531 (Office); 01-340 3388 (Home).

ARUTYUNOV, Aleksandr Ivanovich; Soviet neurosurgeon; b. 3 Jan. 1904, Yerevan; ed. North Caucasian Univ. Head Doctor of Hospital, Mari Autonomous Republic 1929-30; Intern at clinic 1930-32; Postgraduate, Senior Assoc. Central Neurosurgical Inst. 1932-41; Army Surgeon 1941-45; Head of clinic, Kiev Psychoneurological Inst. 1945-50; Dir. Ukrainian Inst. 1951-64; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1961-67, mem. 1967-; Dir. Burdenko Inst. of Neurosurgery; Head of Chair, Central Medical Refresher Inst. 1965-; mem. CPSU 1940-; Deputy Academic Sec., Dept. of Clinical Medicine, U.S.S.R. Acad. of Medical Sciences; Chair. U.S.S.R. Soc. of Neurosurgeons 1966; First Vice-Pres. Int. Fed. of Neurosurgical Socs.; Vice-Pres. Int. Neurosurgical Assen. 1965-; Order of Lenin, Red Banner of Labour, Red Star, Red Banner (twice). *Publications:* About 120 works on traumas of central nervous system, treatment of consequences of cerebral and spinal inflammation, perfection of neurosurgical technique. *Address:* Burdenko Institute of Neurosurgery, 13/5 Pervy Tverskoy-Yamskoy Pereulok, Moscow, U.S.S.R.

ARUTYUNYAN, Nagush Khachaturovich, Soviet mechanical engineer and politician; b. 23 Nov. 1912; ed. Yerevan Polytechnic Inst., Moscow Military Engineering Acad.; fmr. Hydrological Engineer; Researcher, Armenian S.S.R. Acad. of Sciences 1945-50; Prof. Yerevan Univ. 1950-, Rector 1961-63; mem. Armenian Acad. of Sciences 1950-, Vice-Pres. 1960-61; mem. Communist Party 1942-; Chair. of Presidium of Supreme Soviet of Armenian S.S.R. 1963-; Deputy Chair, Supreme Soviet of U.S.S.R. 1963-; mem. Cen. Auditing Cttee. of CPSU 1966-67; mem. Politburo of Armenian C.P. 1966-67; numerous decorations. *Address:* Presidium of Supreme Soviet of Armenian S.S.R., Yerevan, U.S.S.R.

ARYAL, Krishna Raj, M.ED., M.A.; Nepali politician; b. Dec. 1928, Kathmandu; ed. Durbar High School, Tri-Chandra Coll., Allahabad Univ., India, Univ. of Oregon, U.S.A. Lecturer, Nat. Teachers' Training Centre 1954-56; Prof. of Educ., Coll. of Educ. 1956-59; Editor Education Quarterly 1956-59, Nabin Shikshya 1956-59; Founder, Admin. and Principal Shri Ratna Rajya Laxmi Girls' Coll. 1961-71; Asst. Minister for Educ. 1971-72, Minister of State for Educ. 1972-73, Minister of Educ. 1973-75, concurrently Pro-Chancellor, Tribhuvan Univ. 1973-75; Minister of Foreign Affairs April 1975-; Gorakha Dakhinbahu (2nd Class); Grand Officer of Yugoslav Star (2nd Class); Grand Cordon of Yugoslav Star (1st Class); Order of the Million Elephants (Laos). *Publications:* Monarchy in the Making of Nepal (in English), Education for Development of Nepal (in English), Facts of Interest (series in Nepali). *Address:* Ministry of Foreign Affairs, Singha Durbar, Kathmandu (Office); Gaihiri Dhara, Kathmandu, Nepal (Home).

ASADA, Shizuo; Japanese aviation official; b. 13 Oct. 1911, Osaka; s. of Eijiro and Tama Asada; m. Hisako Tinako 1940; one s. two d.; ed. Law Dept., Tokyo Imperial Univ. (now Tokyo Univ.). Dir. Bureau of Shipping, Ministry of Transport 1958-61; Admin. Vice-Minister of Transport 1961-63; Sr. Vice-Pres. Japan Air Lines 1963-69, Exec. Vice-Pres. 1969-71, Pres. 1971-; Exec. Dir. Japan Fed. of Employers' Assens.; Dir. Fed. of Econ. Orgs., Japan Aeronautic Assen., Japan Econ. Research Center, Transportation Econ. Research Center; mem. Exec. Cttee. Int. Air Transport Assen., Japan Nat. Tourist Org.; mem. Aircraft Industry Council, Council for Civil Aviation, Invisible Trade Council, Shipping and Shipbuilding Rationalization Council. *Leisure interests:* golf, go, calligraphy. *Address:* Japan Air Lines, 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100 (Office); 1-45 Tokiwadai, Hodogaya-ku, Yokohama City, Kanagawa Prefecture, Japan (Home). *Telephone:* 045-333-1355.

ASANGONO, Evuna Owono; Equatorial Guinean diplomatist; b. 23 May 1944, Nkumekien-Yebecon; m.; two s. three d.; ed. School of Admin., then School of Diplomacy, Santa Isabel (now Malabo). Served as Admin. Officer in Ministry of Interior 1966 and 1969-71, also Ministry of Education 1967-68; First Sec. Permanent Mission to UN. 1972-74; Amb. to Ethiopia 1975; Roving Amb. and Envoy 1976-77; Perm. Rep. to UN. 1977-. Permanent mission of Equatorial Guinea to the United Nations, 440 East 62nd Street, Apt. 6D, New York, N.Y. 10017, U.S.A.

ASANO, Teiji; Japanese business executive; b. 1906; ed. Tohoku Imperial Univ.; joined shipbuilding dept., Mitsui & Co. 1930; entered Tamano Shipyard Ltd. (predecessor of Mitsui Shipbuilding & Eng. Co. Ltd.) 1948; Man. Dir. Mitsui Shipbuilding & Eng. Co. 1958, Man. Dir. 1965, Vice-Pres. 1968, Chair. of Board. 1970-. *Address:* Mitsui Shipbuilding & Engineering Co. Ltd., 6-4, Tsukiji 5-chome, Chuo-ku, Tokyo, Japan. *Telephone:* 543-3111.

ASANTE, Col. Samuel McGall, B.A., LL.B.; Ghanaian army officer and diplomatist; b. 7 Feb. 1934, Nkawkaw; ed. Zion Coll., Keta, St. Augustine's Coll., Cape Coast, Univ. Coll., Legon, Mons Officer Cadet School, England, and Univ. of Ghana. Platoon Commdr. 5th Bn., Tamale Aug.-Dec. 1961; Staff Capt. "A" HQ, 1st Infantry Brigade Group, Accra 1961-62, "A" Army HQ, Accra Jan.-Oct. 1962; Dir. Asst. Gen. Ministry of Defence 1962-64; Defence Adviser, London 1964-66; Company Commdr, 3rd Infantry Bn., Sunyani 1966-67, later Bn. Second in Command; called to the Ghana Bar Oct. 1972; High Commr. to Nigeria 1972-73, to United Kingdom Sept. 1975-. *Address:* Ghana High Commission, 13 Belgrave Square, London, SW1X 8PR, England.

ASBECK, Werner, DR. ING.; German business executive; b. 3 Jan. 1908; ed. Technische Hochschule, Aachen. Supt. Leipziger Leichtmetallwerk Bernhard Berghaus, Rackwitz 1939-43; Asst. to Pres. Vereinigte Stahlwerke, Düsseldorf 1943-50; Dir. Investment Dept., Stahl-Treuhänder-Vereinigung, Düsseldorf 1950-53; Asst. to Technical Board of Dirs., Dortmund-Hörder-Hütten-union A.G., Dortmund 1953-54; fmr. Chair. Man. Board, Klöckner-Werke A.G.; mem. numerous supervisory boards etc. *Address:* 4 Düsseldorf, Eitelstrasse 40, Federal Republic of Germany.

ASCHENBORN, Hans Jürgen, M.A.BIBL., D.PHIL., F.S.A.L.A.; South African librarian; b. 19 Aug. 1920, Windhoek, S.W. Africa; s. of Hans A. Aschenborn and Emmy Bredow; m. Helga C. Hermenau 1947; one s. three d.; ed. Univ. of S. Africa and Univ. of Pretoria. Merensky Library, Univ. of Pretoria 1949-51; head of various depts., Transvaal Provincial Library Services 1951-53; Lecturer in Library Science, Univ. of Pretoria 1953-59; joined The State Library, Pretoria 1959, Dir. 1964-; Fellow, Int. Micrographic Congress; John Harvey Medal 1964. *Publications:* Stimmen deutscher Dichter 1949, Titelbeskrywing 1956, Sachkatalogisierung seit Trebst 1957, Staatsbiblioteek der Z.A.R. 1970. *Leisure interests:* farming, Arab horse breeding, riding. *Address:* State Library, Box 397, Pretoria 0001 (Office); Box 15294, Lynn, East Pretoria 0039, South Africa (Home). *Telephone:* 483920 (Office); 821460 (Home).

ASENSIO-WUNDERLICH, Julio; Guatemalan diplomatist; b. 5 Nov. 1911, Guatemala City; s. of Dr. José Luis Asensio and Mrs. Beatrix Wunderlich de Asensio; m. Elena Aguirre-Wyld 1938; four s. one d.; ed. Univ. de San Carlos de Guatemala and Loyola Coll., Montreal. Deputy Minister of Foreign Relations, Guatemala 1954–; Minister-Counsellor, Embassy of Guatemala, Washington, D.C. 1955-58; Legal Counsellor, Foreign Office, Guatemala 1958-64; Amb. to U.S.A. 1970-78; mem. Del to UN Gen. Assembly 1954-55, Perm. Rep. to UN 1976-78; Orden del Mérito Civil (Spain), Caballero de San Silvestre (Vatican). *Leisure interests:* reading, coffee growing. *Address:* c/o Ministerio de Relaciones Exteriores, Guatemala City, Guatemala.

ASFIA, Safi; Iranian engineer and politician; b. 1916, Teheran; m. Behjat Ziai 1941; three d.; ed. Ecole Polytechnique and Ecole des Mines, Paris. Prof. of Econ. Geology Teheran Univ. 1939-62; Dep. Dir. Plan Org. 1954-61, Man. Dir. 1961-68; Dep. Prime Minister and Minister of State for Econ. and Devt. Affairs 1968-74; Minister of State 1974-75, without Portfolio 1975-77, for Econ Affairs 1977-78. *Address:* c/o Ministry of Economic Affairs, Teheran, Iran.

ASH, Roy Lawrence, M.B.A.; American industrialist; b. 20 Oct. 1918, Los Angeles, Calif.; s. of Charles K. and Fay (Dickenson) Ash m. Lila M. Hornbek 1943; three s. two d.; ed. Harvard Univ. Bank of America 1936-42, 1947-49; promoted from Private to Capt., U.S. A.F. 1942-46; Chief Financial Officer, Hughes Aircraft Co. 1949-53; Co-founder and Dir., Litton Industries Inc. 1953-72; Exec. Pres. 1961-72; mem. Board of Dirs. Bankamerica Corpn. 1968-72, 1976-, Bank of America N.T. and S.A. 1964-72, 78-, Global Marine Inc. 1965-72, 1975-, Pacific Mutual Life Insurance Co. 1965-72, Los Angeles World Affairs Council 1968-72, (Pres. 1970-72), 1978-, Daniel Mann Johnson and Mendenhall 1976-; Chair. President's Advisory Council on Exec. Org. 1969-71; Asst. to the Pres. of the U.S.A. for Exec. Man. 1972-75; Dir. U.S. Office of Man. and Budget 1973-75; Chair. and Chief Exec. Officer, Addressograph Multigraph Corp. 1976-; Co-Chair. Japan-California Assen. 1965-72; mem. The Business Roundtable 1977;, The Conference Board 1977-; mem. Board of Trustees, California Inst. of Tech. 1967-72; Trustee, Cttee. for Econ. Devt. 1970-72, 1975-; Hon. LL.D. (Pepperdine) 1976; Kt. of Malta; Horatio Alger Award 1966. *Address:* 655 Funchal Road, Los Angeles, Calif. 90024, U.S.A.

ASHBY, Baron (Life Peer), cr. 1973, of Brandon, Suffolk; **Eric Ashby,** Kt., F.R.S., D.SC., M.A., D.I.C.; British botanist and university administrator; b. 24 Aug. 1904, London; s. of Herbert C. Ashby and Helena M. Chater; m. Elizabeth H. Farries; two s.; ed. City of London School, Imperial Coll. of Science, London, and Univ. of Chicago. Commonwealth Fund Fellow, U.S.A. 1929-31; lecturer in Botany, Imperial Coll. 1931-35; Reader in Botany, Univ. of Bristol 1935-37; Prof. of Botany, Univ of Sydney, Australia 1938-46; Harrison Prof. of Botany, Manchester Univ. 1946-50; Pres. and Vice-Chancellor, The Queen's Univ. Belfast 1950-59; Counsellor and Chargé d'affaires Australian Legation, Moscow 1945; mem. Exec. Council Scientific and Industrial Research 1956-60; Master of Clare Coll., Cambridge 1958-75; Chair. Int. Comm. on Higher Educ. in Nigeria 1959-61; Vice-Chair. Assen. of Univs. of British Commonwealth 1959-61; Vice-Chair. Commonwealth Scholarships Comm. 1959-62; mem. Univ. Grants Cttee. 1960-67; Chair. Cttee. of Award, Commonwealth Fund of N.Y. 1963-69; Hon. Adviser, Nigerian Nat. Univ. Comm. 1962-65; Pres. British Assen. for Advancement of Science 1963; Council Royal Soc. 1964-65; Trustee Ciba Foundation 66-69; mem. Central Advisory Council for Science and Technology 1967-69; Vice-Chancellor, Univ. of Cambridge 1967-69; Chair. Royal Comm. on Pollution 1970-73; Chancellor, Queen's Univ., Belfast 1970-; Visiting Prof., Univ. of Michigan 1976-78; Trustee, British Museum 1969-77; Fellow, Advisory Council, Science Policy Foundation 1975-78; Order of Andrés Bello 1st Class (Venezuela) 1974. *Publications:* Environment and Plant Development 1931, English-German Botanical Terminology 1938, Challenge to Education 1946, Scientist in Russia 1947, Science and the People 1953, Technology and the Academics 1958, Community of Universities 1963, African Universities and Western Tradition 1964, Universities, British, Indian, African 1966, The Rise of the Student Estate in Britain 1970, Masters and Scholars 1970, Any Person, Any Study 1971, Portrait of Haldane 1974, Adapting Universities to a Technological Society 1974, Reconciling Man with the Environment 1978. *Address*: Norman Cottage, Manor Road, Brandon, Suffolk; Clare College, Cambridge, England.

ASHCROFT, Dame Peggy (Dame Edith Margaret Emily Hutchinson), D.B.E.; British actress; b. 22 Dec. 1907; ed. Croydon and Central School of Speech Training, Albert Hall, London; first appeared at Birmingham Repertory Theatre 1926; roles include: Constance Neville (She Stoops to Conquer), Naomi (Jew Süss) 1929, Desdemona (with Paul Robeson) 1930, Irina (The Three Sisters) 1937-38, Cecily Cardew (The Importance of Being Ernest) 1939-40, 1942, Catherine (The Dark River) 1943, Haymarket Repertory Season 1944-45, Evelyn Holt (Edward My Son) 1947, Catherine Sloper (The Heiress) 1949, Hester Collyer (The Deep Blue Sea) 1952, Hedda Gabler 1954, Miss Madrigal (The Chalk Garden), Shen Te (The Good Woman of Setzuan) 1956, Rebecca West (Rosmersholm) 1959, title role Duchess of Malfi 1961, Madame Ranevsky (The Cherry Orchard) 1962, and numerous Shakespearian performances at The Old Vic, London, and as mem. Royal Shakespeare Company (RSC), Stratford and London 1960-64, Dir. RSC 1968-; has appeared in London in The Seagull 1964, Days in the Trees 1966, Ghosts 1967, Delicate Balance 1968, Landscape 1969, Katherine of Aragon in Henry VIII (Stratford-on-Avon), The Plebeians 1970, Lloyd George Knew My Father 1972, Old Times 1972, J ohn Gabriel Borkman 1975, Happy Days 1975, Old World 1976. Films incl. The Wandering Jew, Thirty-Nine Steps, The Nun's Story, Sunday Bloody Sunday, Three into Two Won't Go; Hon. D.Litt. Oxford 1961, Leicester 1964; Hon. D.Lit., London 1965, Cambridge 1972; King's Gold Medal (Norway). *Address:* Manor Lodge, Frognal Lane, London, N.W.3, England.

ASHE, Arthur Robert, B.S.; American professional lawn tennis player; b. 10 July 1943, Richmond, Va; s. of Arthur R. and Mattie Cordell (Cunningham) Ashe; m. Jeanne-Marie Moutoussamy 1977; ed. Univ. of California. Pres. Assen. of Tennis Professionals 1974-76, Players Enterprises, Inc.; adviser to United Negro Coll. Fund 1975-, African Student Aid Fund 1973-; Sports Commentator, ABC Television 1977-; U.S. Army Lieut. 1967-69; U.S. Men's Hard Court Singles Champion 1963, U.S. Men's Clay Court Champion 1967, U.S. Amateur Champion 1968, U.S. Open Champion 1968, Australian Open Champion 1970, Wimbledon Singles Champion 1975; mem. U.S. Davis Cup Team; U.S. Jaycees T.O.Y.M. 1968. *Publication:* Arthur Ashe: Portrait in Motion 1974. *Leisure interests:* music, reading, golf. *address:* 4400 N.W. 87 Avenue, Miami, Fla. 33148; 888 17 Street N.W. 1200, Washington, D.C. 20006, U.S.A. *Telephone:* (305) 592-2000; (202) 457-8823.

ASHE, Sir Derick Rosslyn, K.C.M.G., M.A. (OXON.); British diplomatist; b. 20 Jan. 1919, Guildford, Surrey; s. of Frederick Allen and Rosalind Ashe (née Mitchell); m. Rissa Guinness (née Parker) 1957; one s. one d.; ed. Bradfield Coll., Trinity Coll., Oxford; served in H.M. Forces 1940-46, mentioned in despatches 1945; Second Sec. Control Comm. for Germany 1947-49; Private Sec. to Perm. Under-Sec. of State for German Section, Foreign Office 1950-53; First Sec. La Paz 1953-55; Foreign Office 1955-57; First Sec. Information, Madrid 1957-61; Foreign Office 1961-62; Counsellor, Head of Chancery, Addis Ababa 1962-64, Havana 1964-66; Head of Security Dept., Foreign and Commonwealth Office 1966-69; Minister, Tokyo 1969-71; Amb. to Romania 1972-75, to Argentina 1975-77 (withdrawn Jan. 76); alternate leader of U.K. del. to Disarmament Conf., Geneva 1977; Knight Order of Orange-Nassau. *Leisure interests:* riding, antiques. *Address:* 37-39 rue de Vermont, 1202 Geneva, Switzerland.

ASHIHARA, Yoshinobu, B.A., M.ARCH., D.ENG.; Japanese architect; b. 7 July 1918, Tokyo; s. of Dr. Nobuyuki Ashihara and Kikuko Fujita; m. Hatsuko Takahashi 1944; one s. one d.; ed. Univ. of Tokyo and Harvard Univ. Graduate School; worked in architectural firms, Tokyo 1946-52; in Marcel Breuer's firm, New York 1953; visited Europe on Rockefeller Travel Grant 1954; Head, Yoshinobu Ashihara and Assocs. 1955-; Lecturer in Architecture, Hosei Univ., Tokyo 1955-59, Prof. of Architecture 1959-65; Prof. of Architecture, Musashino Art Univ., Tokyo 1964-70; Visiting Prof., School of Architecture and Building, Univ. of New South Wales, Australia 1966, Dept. of Architecture, Univ. of Hawaii 1969; Prof. of Architecture, Univ. of Tokyo 1970-; Award of Architectural Inst. of Japan for Chuo-Koron Building 1960; Special Award of Architectural Inst. of Japan for Komazawa Olympic Gymnasium 1965; Ministry of Educ. Award for Japan Pavilion, Expo 1967, Montreal; NSID Golden Triangle Award (U.S.A.) 1970, Commendatore, Ordine al Merito (Italy) 1970. *Works include:* Chuo-Koron Building, Sony Building, Komazawa Olympic Gymnasium 1965, Japanese Pavilion, Expo 67, Montreal, Fuji Film Bldg. 1969. *Publication:* Exterior Design in Architecture 1969. *Leisure interests:* sauna, travelling. *Address:* Y. Ashihara, Architect and Associates, 7th Floor, Sumitomo-seimei Building, 31-15 Sakuragaoka-cho, Shibuya-ku, Tokyo 150 (Office); 47 Nishihara-3, Shibuya-ku, Tokyo, Japan (Home). *Telephone:* 463-7461 (Office).

ASHIMOV, Baiken Ashimov; Soviet politician; b. 1917; ed. Leningrad Zoological Inst. and CPSU Higher Party School. mem. CPSU 1940-; army service 1938-45; party and local work, Kokchetav Region, Kazakh S.S.R. 1945-60; Chair. Karaganda Regional Exec. Cttee. 1961-63, 1964-68; First Sec. Karaganda Regional Cttee., CP Kazakhstan 1963-64; First Sec. Taldy-Kurgan Regional Cttee., CP Kazakhstan 1968-70; mem. Cen. Cttee. Kazakhstan 1961-; mem. Bureau of Cen. Cttee, CP Kazakhstan 1970-; Chair. Kazakh S.S.R. Council of Ministers 1970-; Deputy to U.S.S.R. Supreme Soviet 1970-; mem. Cen. Cttee. CPSU 1971-; numerous decorations. *Address:* Council of Minsters of the Kazakh S.S.R., Alma-Ata, U.S.S.R.

ASHIOTIS, Costas, M.B.E.; Cypriot diplomatist; b. 1908; ed. Pancyprian Gymnasium, Nicosia, and London School of Economics; fmr. journalist and editor; Govt. Service 1942-; Asst. Commr. of Labour 1948; Dir.-Gen. Ministry of Foreign Affairs 1960; mem. Cypriot Dels. to UN and Int. Confs.; High Commr. in U.K. 1966-; Hon. M.B.E. *Publication:* Labour Conditions in Cyprus During the War Years 1939-45. *Address:* Cyprus High Commission, 93 Park Street, London, W1Y 4ET, England.

ASHKENAZY, Vladimir; Russian-born concert pianist; b. 6 July 1937, Gorky, U.S.S.R.; s. of David Ashkenazy and Evstolia (née Plotnova); m. Thorunn Sofia Johannsdottir 1961; two s. two d.; ed. Central Music School, Moscow, and Moscow Conservatoire. Second Prize, Int. Chopin Competition, Warsaw 1955; Gold Medal, Queen Elizabeth Int. Piano Competition, Brussels 1956; Joint winner (with John Ogdon) Tchaikovsky Piano Competition, Moscow 1962; concerts in many countries. *Leisure interest:* soccer. *Address:* Sonnenhof 4, 6004 Lucerne, Switzerland. *Telephone:* 22 02 21.

ASHMOLE, Bernard, C.B.E., M.C., M.A., B.LITT., F.B.A.; British archaeologist; b. 22 June 1894, Ilford, Essex; s. of William Ashmole and Caroline Wharton Tiver; m. Dorothy De Peyer 1920; one s. two d.; ed. Hertford Coll., Oxford. Craven Fellow, Athens and Rome British Schools 1920-22; Asst. Curator of Coins, Ashmolean Museum, Oxford 1923-25; Dir. British School at Rome 1925-28; Yates Prof. Archaeology, London Univ. 1929-48; Keeper, Greek and Roman Antiquities, British Museum 1939-56; Lincoln Prof. of Classical Archaeology and Art, Oxford Univ. 1956-61; Geddes-Harrower Prof. of Greek Archaeology and Art, Aberdeen Univ. 1961-62; Fellow, Lincoln Coll., Oxford; Hon. Fellow, Hertford Coll., Oxford, University Coll., London, Archaeological Inst. of America, Archaeological Soc. of Athens; Hon. LL.D. *Publications:* Catalogue of Ancient Marbles at Ince Blundell Hall, Greek Sculpture and Painting (with Sir J. D. Beazley), Olympia: The Sculptures of the

Temple of Zeus (with N. Yalouris and A. Frantz), Art of the Ancient World I (with H. A. Groenewegen), Architect and Sculptor in Classical Greece. *Address:* 5 Tweed Green, Peebles, Scotland.

ASHMORE, Admiral of the Fleet Sir Edward (Beckwith), G.C.B., D.S.C.; British naval officer; b. 11 Dec. 1919, Queenstown, Eire; s. of Vice-Adm. L. H. Ashmore, C.B., D.S.O., and T. V. Shutt; m. Elizabeth Mary Doveton Sturdee 1942; one s. one d.; ed. Royal Naval Coll., Dartmouth. Served H.M.S. Birmingham, Jupiter, Middleton 1938-42; Staff, C.-in-C. Home Fleet 1944-45; mentioned in despatches 1946; Asst. Naval Attaché, British Embassy, Moscow 1946-47; Squadron Communications Officer 3rd Aircraft Carrier Squadron 50; Commdr. 1950; H.M.S. Alert 1952-53; Capt. 1955; Capt. (F) 6th Frigate Squadron, Commdg. Officer H.M.S. Blackpool 1958; Dir. of Plans, Admiralty and Ministry of Defence 1960-62; Commdr. British Forces Caribbean Area 1963-64; Rear-Adm. 1965; Asst. Chief of Defence Staff, Signals 1965-67; Flag Officer, Second-in-Command, Far East Fleet 1967-68; Vice-Adm. 1968; Vice-Chief Naval Staff 1969-71; Adm. 1970; C.-in-C. Western Fleet Sept.-Oct. 1971; C.-in-C. Fleet 1971-73; Chief of Naval Staff and First Sea Lord 1974-77; Chief of Defence Staff Feb.-Aug. 1977; First and Principal Naval ADC to Her Majesty the Queen 1974-77; Adm. of the Fleet 1977; Dir. Racal Electronics Ltd. 1978; Gov. Sutton's Hospital in Charterhouse 1975. *Address:* c/o National Westminster Bank Limited, 26 Haymarket, London, S.W.1, England.

ASHTAL, Abdalla Saleh, M.A.; Yemeni diplomatist; b. 5 Oct. 1940; ed. Menelik II Secondary School, Addis Ababa, Ethiopia, American Univ. of Beirut, Lebanon, New York Univ. Asst. Dir. of Sana'a Branch, Yemeni Bank for Reconstruction and Devt. 1966-67; Editor Ash-ara (weekly) 1967-68; mem. Exec. Cttee. of Gen. Command, Nat. Liberation Front 1968-72; Political Adviser, Perm. Mission to UN 1970, Senior Counsellor 1972-73, Perm. Rep. May 1973-, concurrently Amb. to Canada 1974-, and to Mexico Nov. 1975-. *Address:* Permanent Mission of People's Democratic Republic of Yemen, 413 East 51st Street, New York, N.Y. 10022, U.S.A.

ASHTON, Sir Frederick, Kt., O.M., C.H., C.B.E.; British choreographer and dancer; b. 17 Sept. 1906, Guayaquil, Ecuador, s. of George Ashton and Georgina Fulcher; ed. Dover Coll. and Dominican Fathers, Lima, Peru. Principal choreographer Royal Ballet 1935-70, Dir. 1963-70; Flight-Lieut., R.A.F., during Second World War; Queen Elizabeth II Coronation Award; Legion of Honour (France); Commdr. of the Order of the Dannebrog; Hon. D.Litt. (Durham and E. Anglia), Hon. D.Mus. (London) 1970, (Hull) 1971. Choreography for Symphonic Variations, Cinderella, Les patineurs, Rendezvous, Façade, Scènes de ballet, Wedding Bouquet, Capriol Suite, Sylvia, Romeo and Juliet, Ondine, La fille mal gardée, Jazz Calendar, Enigma Variations, Lament of the Waves, The Tales of Beatrix Potter (film) 1971, The Dream, A Month in the Country, etc.*Leisure interests:* gardening, swimming, contemplating. *Address:* Royal Opera House, Covent Garden, London, W.C.2, England.

ASHWORTH, John Michael, PH.D.; British biologist; b. 27 Nov. 1938, Luton; s. of Jack Ashworth and Mary Ousman; m. Ann Knight 1963; one s. three d.; ed. Exeter Coll., Oxford, Leicester Univ., Brandeis Univ., U.S.A., Univ. of California, San Diego. Harkness Fellow, Commonwealth Fund, New York, N.Y. 1965-67; Lecturer, Biochemistry Dept., Univ. of Leicester 1967-71, Reader 1971-73; Prof., Biology Dept., Univ. of Essex 1973-; Chief Scientist, Cen. Policy Review Staff, Cabinet Office (on secondment from Univ. of Essex) 1976-(79); Colworth Medal of Biochemical Soc. 1972. *Publications:* editor: Outline Studies in Biology; author: Cell Differentiation 1973, The Slime Moulds (with J. Dee) 1976, over 50 papers on biological and biochemical topics in scientific journals. *Leisure interest:* sailing. *Address:* 5 Beech Avenue, Wivenhoe, Essex, CO7 9AR, England. *Telephone:* Wivenhoe 3576.

ASILTÜRK, Oguzhan; Turkish politician; b. 1935, Malatya; ed. Tech. Univ. of Istanbul; served Dept. of Highways and State Irrigation Admin.; later set up own eng. firm; Provincial Chair. Nat. Order Party, Ankara; mem. for Ankara, Grand Nat. Assembly (Parl.); Sec.-Gen. Nat. Salvation Party (NSP); Minister of the Interior 1974-77, of Industry and Technology July-Dec. 1977. *Address:* National Salvation Party, Ankara, Turkey.

ASIMOV, Isaac PH.D.; American biochemist and science fiction writer; b. 2 Jan. 1920, Petrovichi, U.S.S.R.; s. of Judah Asimov and Anna Rachel (Berman) Asimov; m. 1st Gertrude Blugerman 1942, one s. one d.; m. 2nd Janet O. Jeppson 1973; ed. Columbia Univ. Instructor in Biochemistry, Boston Univ. School of Medicine 1949-51, Asst. Prof. 1951-55, Assoc. Prof. 1955-; professional writer 1938–; numerous awards. *Publications:* books including The Human Body 1963, The Human Brain 1964, New Intelligent Man's Guide to Science 1965, Asimov's Biographical Encyclopedia of Science and Technology 1964, Understanding Physics 1966, The Universe 1966, Is Anyone There? 1967, Asimov's Guide to the Bible 1968, Photosynthesis 1969, Shaping of England 1969, Opus 100 1969, Solar System and Back 1970, The Gods Themselves, Editor Nebula Award Stories 1973, The Tragedy of the Moon (essays) 1974, Words of Science 1974, Our Federal Union 1975, Eyes on the Universe 1975, The Ends of the Earth 1975, Murder at the ABA 1976, The Bicentennial Man 1976, Familiar Poems Annotated 1976, The Collapsing Universe 1977, Mars, the Red Planet 1977, The Golden Door 1977, Quasar, Quasar, Burning Bright 1978, Animals of the Bible 1978, Life and Time 1978. *Leisure interests:* no leisure. *Address:* 10 West 66th Street, Apt. 33A, New York, N.Y. 10023, U.S.A.

ASIMOV, Mukhamed Saifitdinovich; Soviet philosopher and politician; b. 1 Sept. 1920, Leninabad; m. Monand Asimova 1923; two s. three d.; ed. Uzbek State Univ., Samarkand, and Acad. of Social Sciences. Army Service 1941-46; mem. CPSU 1945-; Senior Lecturer, Leninabad Pedagogical Inst. 1946-54; Postgraduate student, Acad. of Social Sciences 1954-55; Rector, Dushanbe Polytechnic Inst. 1956-62; Minister of Educ. of Tajik S.S.R. 1962-65; mem. Cen. Cttee. CP of Tajikistan 1962-; mem. Presidium, Sec. Cen. Cttee. of CP of Tajikistan, Chair. Party and State Control Cttee., Tajik S.S.R., Deputy Chair. Council of Ministers of Tajik S.S.R. 1962-65; Pres. Acad. of Sciences of Tajik S.S.R. 1965-; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. Cen. Cttee. CP of Tajikstan; Corresp. mem. U.S.S.R. Acad. of Sciences; decorations including Order of Lenin. *Publications:* Asari barchastai filosofiya i marxist 1960, Materiya ba tasviri fizikii olam 1966, Paidoish ba inkishofi taffakuri falsafi 1970. *Leisure interest:* chess. *Address:* Dushanbe 26, Academy of Sciences, Lenin Street 33, Tajikistan, U.S.S.R. *Telephone:* 2-20-72.

ÂSIROĞLU, Vahap, L. EN D.; Turkish diplomatist; b. 14 Aug. 1916, Karamursel; s. of Tahsin and Safiye Âşiroğlu; m. Sevim Zeren 1946; one s.; ed. Galatasaray Lycée, Instanbul and Faculty of Law, Univ. of Istanbul; entered diplomatic service 1943; served in Czechoslovakia, Turkish Ministry of Foreign Affairs and Perm. Mission of Turkey at UN 1946-62; Minister and Deputy Perm. Rep. to UN 1962-65; Amb. to Denmark 1965-68, to Indonesia 1968-71, to U.K. 1978-; Sec.-Gen. Regional Co-operation for Devt. (RCD) May 1971-74; mem. UN Comm. on Human Rights 1953-56; Leader, Turkish del. to ICAO Assembly 1956; Chair. del., GATT Ministerial meeting, Tokyo 1959; Chair. UN Conciliation Comm. for Palestine 1962-65. *Leisure interests:* riding, tennis, sailing, swimming, photography, antiques, sea shell collection. *Address:* Turkish Embassy, 43 Belgrave Square, London SW1X 8PA, England. *Telephone:* 01-235 5252 (Office).

ASKENASE, Stefan; Belgian (b. Polish) concert pianist; b. 10 July 1896; m. Ingrid Buchwald 1972; ed. Coll. in Lemberg and Acad. of Music, Vienna. War service, Austrian officer 1915-18; Teacher, Cairo Conservatoire 1922-25; Prof. Royal Conservatoire of Music, Brussels 1957-61; concert tours all over Europe and overseas; records for Deutsche Grammophon Gesellschaft. *Address:* Rodderbergstrasse 72, 53 Bonn, Federal Republic of Germany; and c/o New Era International Concerts Ltd., 16 Lauriston Road, London, S.W.19, England. *Telephone:* Bonn 341422.

ASKEW, Reubin O'Donovan, LL.B.; American state governor; b. 11 Sept. 1928, Muskogee, Okla.; s. of Leo Goldberg Askew and Alberta Nora O'Donovan; m. Donna L. Harper 1956; one s. one d.; ed. Escambia County Public School System, Florida State Univ., Univ. of Florida Coll. of Law and Denver Univ. Partner in law firm, Pensacola, Florida 1956-70; Asst. County Solicitor, Escambia Co., Florida 1956-58; mem. State of Florida House of Reps. 1958, 1960-62; State Senate 1962-70; Gov. of Florida 1970-79; Partner in law firm, Miami 1979-; Chair. Education Commission of U.S.A. 1973; Vice-Chair. Southern Govs. Conf., Chair. 1974-78, Chair. Nat. Dem. Govs. Conference 1976, Nat. Govs. Conference 1976; Hon. degrees Univ. of Notre Dame, Stetson Univ., Rollins Coll., Eckerd Coll., Florida Southern Coll., Saint Leo Coll., Miami Univ., Bethune-Cookman Coll.; John F. Kennedy Award, Nat. Council of Jewish Women 1973, Herbert Harley Award (American Judicature Soc.) 1973, Nat. Wildlife Fed. Award 1972, Outstanding Conservationist of Year Award, Florida Audubon Soc. 1972, Herbert H. Lehman Ethics Award 1973, Salvation Army Gen. William Booth Award 1973; Democrat. *Address:* PH-1 Forte Plaza, 1401 Brickell Avenue, Miami, Fla. 33149 (Office); Apartment 172, Tidemark Building, 201 Crandon Boulevard, Key Biscayne, Fla. 33131, U.S.A. (Home).

ASKIN, Hon. Sir Robert William, G.C.M.G.; Australian politician; b. 4 April 1909, Sydney; m. Mollie Underhill 1937; ed. Sydney Technical High School, New South Wales; fmr. bank official; with Australian Imperial Forces, Second World War; mem. N.S.W.

Legislative Assembly 1950-75; Deputy Leader N.S.W. Liberal Party 1954-59, Leader 1959-75; Premier and Treas. of N.S.W. 1965-75. *Leisure interests:* gardening, racing. *Address:* 86 Bower Street, Manly, Sydney, New South Wales, Australia.

ASMODI, Herbert Christian Ernst; German playwright; b. 30 March 1923; ed. Ruprecht-Karl Universität, Heidelberg; war service 1942-45; studies at Heidelberg 1947-52; freelance writer, Munich 1952-; mem. PEN; Gerhart Hauptmann-Preis der Freien Volksbühne Berlin 1954, Tukan Prize, Munich 1971. *Publications:* comedies: Pardon wird nicht gegeben, Nachsaison, Die Menschenfresser, Mohrenwäsche, Dichtung und Wahrheit oder der Pestalozzi-Preis, Stirb & Werde (two episodes from the German recovery), Nasarin oder Die Kunst zu Träumen, Marie von Brinvilliers, Geld. *Address:* Munich 23, Occamstrasse 3, Federal Republic of Germany. *Telephone:* 348436.

ASNAG, Abdallah al-Majid al-; Yemeni trade union official and politician; b. 1933. Sr. Reservation Officer, Aden Airways 1951-62; leader, People's Socialist Party; Gen. Sec. Aden Trade Union Congress until Dec. 1962, 1963-65; imprisoned Dec. 1962-Dec. 1963; Head of Political Bureau, Front for Liberation of Occupied S. Yemen (FLOSY); in Yemen Arab Repub. since 1965; Minister of Foreign Affairs Aug.-Sept. 1971, March-June 1974, 1975-79, of Econ. 1971-74; Deputy Premier for Communications 1974-75. *Address:* c/o Ministry of Foreign Affairs, Sana'a, Yemen Arab Republic.

ASP, Eero Rafael; Finnish monetary official; b. 24 Feb. 1922, Helsinki; s. of Einar Walfrid Asp and Eva Elisabet Tynell; m. Sisko Oili Karstila 1953; one d.; ed. Helsinki Univ. Bank of Finland, Helsinki 1948, Sec. Bank of Finland 1955-58, 1960-62; Alt. mem. Board of Govs. IMF 1957-58, 1961-62, mem. Board of Dirs. 1958-60, 1968-70; Man. Dir. Export Guarantee Board, Helsinki 1962-71, Finnish Export Credit Ltd., Helsinki 1963-; Alt. mem. Board of Govs., Asian Devt. Bank 1966-. *Leisure interest:* golf. *Address:* Finnish Export Credit Ltd., Eteläesplanadi 8, 00130 Helsinki 13, Finland. *Telephone:* 13171.

ASPLING, Sven; Swedish politician; b. 28 Aug. 1912. Journalist 1937-42; Constituency Organizer, Social Democrat Party 1942-46, Asst. Sec.-Gen. 1946-48, Sec.-Gen. 1948-62; mem. Parl. 1956-; Minister of Social Affairs 1962-76. *Address:* c/o Ministry of Social Affairs, Stockholm 16, Sweden.

ASRATYAN, Ezras Asratovich; Soviet physiologist; b. 31 May 1903, Metsik, Turkey; m. Janna Sayants 1937; three s.; ed. Yerevan State Univ. Asst. Yerevan State Univ. 1925-30; mem. CPSU 1929–; scientific worker in Physiological Inst. U.S.S.R. Acad. of Sciences 1930-41; Head of Neuro-Physiological Laboratory, Leningrad Brain Research Inst. 1935-41; Head of Physiological Dept. Pedagogical Inst. Leningrad 1936-41; Prof. of Physiology, Tashkent Medical Inst. 1941-43; Professor, Medical Inst. Moscow 1943-50; Head of Physiological Laboratory, U.S.S.R. Acad. of Sciences 1944-50; Head of Physiological Dept. Moscow Second State Medical Inst. 1950-60; Head, Inst. of Higher Nervous Activity and Neurophysiology 1960-; mem. Armenian Acad. of Sciences 1947-, mem. Czechoslovak Medical Soc. J. E. Purkyne, Pavlovian Soc. of America, Neurological and Neurochemical Soc. of Montevideo, Medical-biological Soc. of Netherlands, Berlin Physiological Soc.; corresp. mem. U.S.S.R. Acad. of Sciences 1939-; awards include Pavlov Prize 1951, Gold Medal 1963, Purkyne Medal 1975; Order of Lenin (twice), Order of Red Banner of Labour (twice), Order of Red Star, etc. *Publications:* Essays on Etiology, Functional Pathology and Therapy of the Traumatic Shock 1945, Physiology of the Central Nervous System 1953, Lectures on Some Problems of Neurophysiology 1958, Reliability of Brain 1963, Compensatory Adaptations, Reflex Activity and the Brain 1965, Essays on Physiology of Conditioned Reflexes 1970, I. P. Pavlov 1974, Essays on Higher Nervous Activity 1977. *Leisure interests:* gardening, swimming, poetry. *Address:* Ulitsa Butlerova 5A, Moscow; and Ulitsa Petrovskogo 3, Apt. 20, 117419 Moscow, U.S.S.R. *Telephone:* 334-70-00 (Office); 232-08-65 (Home).

ASRI BIN HAJI MUDA, Datuk Haji Mohamed, S.P.M.K.; Malaysian poltician; b. 10 Oct. 1923; fmr. teacher; acting Sec.-Gen. Pan-Malayan Islamic Party 1949-54, Commr., Kelantan 1954-61, Vice-Pres. 1961-64, Pres. 1964-; mem. Kelatan State Assembly 1959-68, Speaker 1964-68; mem. Parl. 1959-68; mem. Nat. Unity Council 1969-; Minister of Land Devt., Mines and Special Functions 1972-76, of Land, Mines and Regional Devt. 1976-77; Deputy Chair. Nat. Council for Islamic Affairs 1973-. *Address:* Pan-Malayan Islamic Party, 214-1A Jalan Pahang, Kuala Lumpur, Malaysia.

ASSAD, Lt.-Gen. Hafiz al-; Syrian army officer and politician; b. 1928; m.; four s. one d.; ed. Military Coll., Aviation Coll; mem. Baath Party 1946-; formed Baathist Mil. Cttee. when in Egypt; dismissed from the army, rejoined 1963, promoted Gen. of Air Force 1964; Minister of Defence and Commdr. of Air Force 1966-70; Prime Minister 1970-71; Sec. Baath Party Nov. 1970-; Pres. of Syria March 1971-; mem. Pres. Council, Fed. of Arab Repubs. 1971–; Pres. Syrian Nat. Progressive Front 1972-; Commdr.-in-Chief of Armed Forces 1973-; Hon. Dr. (Damascus) 1972. *Address:* Office of the President, Damascus, Syria.

ASSAR, Nassir; Iranian diplomatist; b. 1926; s. of Mohammad Kazem Assar; m. G. Motazedi 1961; one s. one d.; ed. Teheran Univ; joined Ministry of Foreign Affairs 1945; Vice-Consul, Stuttgart 1949; Second Sec., Stuttgart 1951; Vice-Consul, Hamburg 1953; Deputy Dir. Dept. of Int. Orgs., Ministry of Foreign Affairs 1954-56; First Sec., Ankara 1956; First Sec., Iranian Mission to UN 1958, Counsellor 1959; Councillor, Deputy Chief of Mission, Ankara 1961; Deputy Prime Minister and Head, Org. for Public Trust and Endowment 1964; Sec.-Gen. CENTO 1972-75; Under-Sec. Political and Parl. Affairs 1975-77; Adviser to Minister of Foreign Affairs 1977-79.

ASSMANN, Arno; German theatre producer and manager; b. 30 July 1908; ed. Gymnasium und Realschule zum heiligen Geist, Breslau, and Musikhochschule, Breslau; at Schauspielhaus, Hamburg 1946-47, Thalia-Theater, Hamburg 1947-52, Schauspielhaus, Frankfurt/Main 1952-55, Kammerspiele, Munich 1955-58; Dir. Theater am Gärtnerplatz, Munich 1959-63; Dir. Bühnen der Stadt Köln (Cologne City Theatres) Jan.-Sept. 1964, Gen. Dir. 1964-68. *Productions include:* Der Schulfreund (Kammerspiele, Munich) 1959, Fiesko (Residenztheater, Munich) 1959, Hoffmanns Erzählungen (Staatsoper, Munich) 1960, Julius Caesar (Bühnen der Stadt Köln) 1964, Don Carlos (Opera, Cologne) 1964, Dantons Tod (Cologne) 1965, Billy Budd (Opera, Cologne) 1965. *Address:* Agentur Kohler, 8000 Munich 23, Rümannstrasse 51, Federal Republic of Germany.

ASTACIO, Dr. Julio Ernesto; Salvadorian politician, physician and surgeon; b. 1932, San Salvador; m. Marta de Astacio; two s. one d.; ed. Univ. de El Salvador; specialized at Lady of Lourdes Hosp., Univ. of Pennsylvania, Walter Reed Hosp., Washington, D.C., U.S.A.; postgraduate studies in radiology, Saint Christopher's Children's Hosp., Philadelphia, Univs. of Munich and Erlange, Germany; fmr. Prof. of Radiology, Radiological Anatomy, Physiology and Pediatric Radiology, Univ. de El Salvador; fmr. Head of Radiology Dept., Benjamin Bloom's Children's Hosp., San Salvador and physician at the Mil. Hosp.; Vascular Radiologist, Salvadorian Inst. of Social Security Hosp.; Vice-Pres. of El Salvador 1977- (82). *Address:* Oficina del Vice-Presidente, San Salvador, El Salvador.

ASTAFIEV, Viktor Petrovich; Soviet writer; b. 1 May 1924, Ovsyanka Village, Krasnoyarsk District. Brought up in orphanage, served in World War II. Writer 1951-; State prizewinner 1978. *Publications include:* novels: Till Next Spring 1953, The Snows are Melting 1958, Shooting Star 1962, Vasyutkin Lake 1962, Stories: Theft. Somewhere the War is Droning 1968, Blue Dusk 1968; Tales 1969; The Horse With the Pink Mane and Other Siberian Stories (Eng. trans.) 1970, The Last Bow 1971; The Light Afternoon and Other Tales 1973; Shepherd & Shepherdess 1973; The King-Fish (State Prize) 1978. *Address:* U.S.S.R. Union of Writers, Ulitsa Vorovskogo 52, Moscow, U.S.S.R.

ASTAIRE, Fred; American actor, singer and dancer; b. (as Frederick Austerlitz) 10 May 1899, Omaha, Neb.; s. of Frederic Austerlitz and Ann (Geilus); m. Phyllis Baker 1933 (died 1954); two s. one d.; co-starred with his sister as Fred and Adele Astaire 1916-32; subsequently appeared alone in musical comedies, films, and on television; recipient nine Emmy awards; Acad. award 1949. *Film appearances include:* Flying Down to Rio 1933, Roberta 1935, Top Hat 1935, Follow the Fleet 1936, Swing Time 1936, Shall We Dance? 1937, Carefree 1938, The Story of Vernon and Irene Castle 1939, Broadway Melody 1940, You'll Never Get Rich 1941, Holiday Inn 1942, Ziegfield Follies 1946, Blue Skies 1946, Easter Parade 1948, The Barkleys of Broadway 1948, Let's Dance 1950, The Band Wagon 1953, Funny Face 1957, On the Beach 1959, The Pleasure of His Company 1961, Finian's Rainbow 1968, The Midas Run 1969, The Towering Inferno 1974. *Address:* c/o Lambs Club, New York, N.Y., U.S.A.

ASTAPENKO, Pavel Evmenovich; Soviet international official; b. 13 Dec. 1918, Mogilev Region, Byelorussia; m. Margarita Astapenko 1945; two d.; ed. Byelorussian State Univ., Minsk and Higher Diplomatic School; began career at Ministry of Foreign Affairs of the U.S.S.R.; Deputy Chief 1949, subsequently Chief of Political Dept. of Ministry of Foreign Affairs of the Byelorussian S.S.R.; Deputy Minister of Foreign Affairs of Byelorussian S.S.R. 1954-61; Chief Govt. Del. to Int. Labour Conf. 1956-61; Perm. Rep.

of Byelorussian S.S.R. to UN 1961-64; Asst. Dir. Gen. Int. Labour Office (ILO) 1970-; Order of Red Star; other decorations. *Address:* International Labour Office, 154 rue de Lausanne, 1211 Geneva 22 (Office); 24 Chemin François Lehmann, 1218 Geneva, Switzerland (Home).

ASTIN, Allen V(arley), PH.D.; American physicist; b. 12 June 1904, Salt Lake City, Utah; s. of John Andrew Astin and Catherine Varley; m. Margaret Linnie Mackenzie 1927; two s.; ed. Univ. of Utah and New York Univ. Nat. Research Council Fellow, Johns Hopkins Univ. 1928-30; Research Assoc. Utilities Research Cttee., Nat. Bureau of Standards 1930-32, Physicist 1932, Asst. Chief Ordnance Devt. Div. 1944-48, Chief Electronics and Ordnance Div. 1948-50, Assoc. Dir. 1951-52, Dir. 1952-69, Dir. Emer. 1969-; Chair. Consultative Cttee. on Standards for Measuring Ionizing Radiations of Int. Cttee. of Weights and Measures 1954-65; Chair. Cttee. on Fed. Labs. of Fed. Council for Science and Technology 1962-69; mem. Nat. Motor Vehicle Safety Advisory Council 1968-72; U.S. Co-ordinator U.S.-French Scientific and Technological Co-operation Program 1969-75; Home Sec. N.A.S. 1971-75; Fellow, American Physical Soc., Inst. of Electrical and Electronic Engineers; mem. N.A.S., American Philosophical Soc., Int. Cttee. of Weights and Measures, American Ordnance Assen., etc.; Presidential Certificate of Merit, Officier, Légion d'honneur 1977, and numerous other awards. *Address:* 5008 Battery Lane, Bethesda, Md. 20014, U.S.A. *Telephone:* 301-652-8573.

ASTON, James William, B.S.; American banker; b. 6 Oct. 1911, Farmersville, Tex.; s. of Joseph A. and Jimmie G. J. Aston; m. Sarah C. Orth 1935; one s.; ed. Texas A. & M. Univ.; served U.S.A.A.F. 1941-45; Vice-Pres. Repub. Nat. Bank of Dallas 1945-55, Exec. Vice-Pres. 1955-57, Pres. 1957-61, Pres. and Chief Exec. Officer 1961-65, Chair. and Chief Exec. Officer 1965-74, Dir. 1957-77; Chair. and Chief Exec. Officer Repub. of Tex. Corpn. (multi-bank holding co.) 1974-77, Dir. 1974-; Chair. Dirs'. Exec. Co. 1977-; official of numerous civic and philanthropic orgs. *Leisure interests:* golf, hunting. *Address:* Republic of Texas Corporation, P.O. Box 22105, Dallas, Tex. 75222 (Office); 5000 Royal Lane, Dallas, Tex. 75229, U.S.A. (Home).

ASTOR, Hon. (Francis) David Langhorne; British journalist; b. 5 March 1912, London; s. of 2nd Viscount Astor; m. 1st Melanie Hauser 1945, one d.; m. 2nd Bridget Aphra Wreford 1952, two s. three d.; ed. Eton and Balliol Coll., Oxford; staff, Yorkshire Post 1936; served Second World War 1939-45; Foreign Editor The Observer 1946-48, Editor 1948-75; mem. Council Royal Inst. of Int. Affairs 1977-; Croix de guerre. *Address:* 9 Cavendish Road, St. John's Wood, London, N.W.8; and Manor House, Sutton Courtenay, Berks., England.

ASTOR OF HEVER, 2nd Baron, cr. 1956, of Hever Castle in the County of Kent; **Gavin Astor;** British company director; b. 1 June 1918; s. of late Lord Astor of Hever; m. Irene, d. of late Field-Marshal Earl Haig, 1945; two s. three d.; ed. Eton and New Coll., Oxford; served in Army in Second World War 1939-45; Dir. Times Publishing Co. Ltd. 1952-66, Chair. 1959-66; Pres. Times Newspapers Ltd. 1967-; Chair. Commonwealth Press Union 1959-72, Pres. 1972-; Dir. Alliance Assurance Co. Ltd. 1954-; Lord Lieut. of Kent 1972-; K. St. J.; Pres. Pilgrims Soc. of Great Britain. *Address:* Hever Castle, Edenbridge, Kent, England. *Telephone:* Edenbridge 862204.

ASTWOOD, Edwin Bennett, M.D.C.M., PH.D., SC.D.; American (naturalized 1943) physician and endocrinologist; b. 29 Dec. 1909, Bermuda; s. of Ernest Millard Astwood and Imogene Doe; m. Sara Ruth Merritt 1937; one s. one d.; ed. McGill Univ. Medical School and Harvard Univ. Medical House Officer, Royal Victoria Hospital, Montreal 1934-35; Assoc. in Obstetrics, Johns Hopkins Univ., and Asst. Obstetrician, Johns Hopkins Hospital 1939-40; Asst. Prof. of Pharmacotherapy, Harvard Medical School 1940-45; Assoc. in Medicine, Peter Bent Brigham Hospital 1940-45; Research Prof. of Medicine, Tufts Medical School 1945-52; Prof. of Medicine 1952-73, Emer. 1973-; endocrinologist, J. H. Pratt Diagnostic Hospital 1945-48; Senior Physician, New England Medical Center Hospitals 1945-73, Consulting Physician 1973-; Consulting Physician, King Edward VII Memorial Hosp. 1973-; mem. N.A.S., American Physiology Soc., American Acad. Arts and Sciences, etc.; Pres. Endocrine Soc. 1961-62; Regent American Coll. of Clinical Pharmacology and Chemotherapy 1964-67; numerous awards. *Publications:* About 200 papers in scientific and medical journals on sex hormones, reproductive physiology, thyroid gland, antithyroid drugs, pituitary hormones and endocrine disorders. *Leisure interests:* woodwork, amateur electronics, tennis. *Address:* Outerbridge Building, Pitt's Bay Road, Pembroke 5-33 (Office); Covesidd, Shaw Wood, Pembroke 5-51, Bermuda (Home). *Telephone:* 2-4240 (Office); 2-4781 (Home).

ASUKATA, Ichio; Japanese politician; b. 1915. Mayor of Yokohama 1963; Head Nat. Assen. of progressive mayors; fmr. mem. House of Councillors; Chair. Socialist Party of Japan Dec. 1977-. *Address:* c/o Nihon Shakaito, 1-8-1 Nagata-cho, Chiyoda-ku, Tokyo, Japan.

ATASSI, Nureddin, M.D.; Syrian politician; b. 1929; ed. Damascus Univ. Minister of the Interior Aug. 1963; Deputy Prime Minister Oct. 1964; mem. Syrian Presidential Council May 1964-Dec. 1965; Pres. of Syria 1966-70, also Prime Minister 1968-70; Sec.-Gen. Syrian Baath Party 1966-70; in exile in Libya.

ATHANASIADIS-NOVAS, Georgios; Greek politician; b. 1893; s. of Themistoklis and Evdokia Athanasiadis-Novas; m. Maria S. Bulgari 1935; no c.; ed. Athens Univ.; fmr. journalist and lawyer; mem. Parl. 1926-39, 1951, 1956, 1958, 1961, 1963, 1964; Minister of Interior 1945, of Education 1945, 1950-51; Minister of Industry 1951-52; Minister in charge of Prime Minister's Office 1951-52, 1963; Pres. of Chamber of Deputies 1964-65; Prime Minister July-Aug. 1965; Deputy Prime Minister 1965-66; mem. Athens Acad. 1955; Centre Union. *Publications:* (under pseudonym George Athanas) Proino Xekinima (Morning Start) Agapi ston Epakto (Love in Epaktos), Prasino Kapello (Green Hat), Deka Erotes (Ten Love Stories), Aploikes Psiches (Simple Souls), Drosseri Kaimi (Happy Trouble), Tragoudia ton Vounon (Mountain Songs), Evdokia (Good Will), Vathies Rizes (Deep Roots), Timia Dora (Honest Gifts), Astegnoto Dakri (Tears that do not dry), Enos ke Thrinos (Praise and Lament), Monokontilies (Pencil Strokes). *Address:* Akademia Athinon, Odos Panepistimiou, Athens, Greece.

ATHANASSIADES, George; Greek newspaper proprietor; b. 13 Aug. 1912, Constantinople; s. of Athos and Helen Amira; m. Helen Abatzi 1939; three c.; ed. Saint Paul School, Piraeus. Editor Vradyni, daily, Naftemboriki, daily journal of finance, commerce, shipping and industry; Pres. Union of Owners of Athens Newspapers, Olympic Games Cttee.; mem., Int. Press Inst., Int. Fed. of Journalists, Int. Fed. of Newspaper Publrs.; Silver Medal of Valour, Gold Medal of Oecumenical Patriarchate, Chevalier, Odre Nationale du Merite (France) 76, Chevalier d'honneur (Switzerland). *Leisure interest:* sports. *Address:* c/o Vradyni, 9-11 Piraeus Street, Athens 112, Greece.

ATHANASSIADES, Panos; Greek newspaper proprietor; b. 17 March 1899, Kydonias; ed. Commercial School of Chalke, Athens Univ. Propr. Delpa, maritime agency 1920-; Publr. of Bulletin Maritime de Constantinople, daily 1922-24; Index Maritime de Constantinople 1923-24, Naftemboriki, daily journal of finance, commerce, shipping and industry 1924-; Lecturer, School of Industry, Piraeus 1959-62; Publr. Vradyni, daily 1962-; Pres. Org. of Port of Piraeus 1960-64; Int. Union of Transport 1955; mem. Council Nat. Org. of Tourism 1956-59; Knight of Dannebrog (Denmark). *Publications:* numerous articles. *Address:* 132 Patission Street, Athens 802, Greece.

ATHFIELD, Ian Charles, DIP.ARCH.; New Zealand architect; b. 15 July 1940, Christchurch; s. of Charles Leonard Athfield and Ella Agnes Taylor; m. Nancy Clare Cookson 1962; two s.; ed. Christchurch Boys High School, Auckland Univ. School of Architecture. A Principal of Structon Group Architects, Wellington 1965-68; own practice 1968-; winner Int. Design Competition for Housing, Manila, Philippines 1976; N.Z.I.A. Silver Medal 1970, Bronze Medal 1975; AA Award 1968, 1972; N.Z. Tourist and Publicity Design Award 1975. *Leisure interests:* building, gardening. *Address:* P.O. Box 3364, Wellington (Office); 105 Amritsar Street, Khandallah, Wellington, New Zealand (Home). *Telephone:* 795-134 (Office); 793-832 (Home).

ATIQI, Abdulreham Salim al-; Kuwaiti diplomatist and politician; b. 5 April 1928; ed. High School, Kuwait. Sec.-Gen. Police Dept., Kuwait 1949-59; Dir.-Gen. Health Dept. 1959-61; Del. to UN 1960-61, to WHO, Geneva 1961, to UN Gen. Assembly 1961; Amb. to U.S.A. 1962-63; Under-Sec. Ministry of Foreign Affairs 1963-67; Minister of Finance 1967-, of Oil Affairs 1967-75; Chair. Kuwait Fund for Arab Econ. Devt. *Address:* Ministry of Finance, P.O. Box Safat 9, Kuwait.

ATIYA, Aziz Suryal, M.A., PH.D., LITT.D., LL.D., D.HUM.LITT.; Egyptian historian and writer; b. 7 July 1898; ed. Univs. of Liverpool and London. Charles Beard Fellow and Univ. Fellow, Univ. of Liverpool 1930-32; History Tutor, School of Oriental Studies, Univ. of London 1933-34; Prof. of Medieval and Oriental History, Univ. of Bonn 1935-38; Prof. Medieval History, Cairo 1938-42, Alexandria 1942-54; consultant to Library of Congress, Washington, D.C. 1950-51; visiting lecturer U.S. univs., Univ. of Zürich and Swiss Inst. of Int. Affairs 1950-51; Pres. Inst. of Coptic Studies, Cairo 1954-56; Medieval Acad. Visiting Prof. of Islamic Studies, Univ. of Michigan, Ann Arbor 1955-56; Luce Prof. of World Christianity, Union Theo-

logical Seminary, and Visiting Prof. of History, Columbia Univ., New York 1956-57; Visiting Prof. of Arabic and Islamic History, Princeton Univ. 1957-58; mem. Inst. for Advanced Study, Princeton 1958-59; Dir., Middle East Center, Utah Univ. 1959-67; Distinguished Prof. of History, Utah 1967-; corresp. mem. UNESCO Int. Comm. for the Scientific and Cultural History of Mankind; corresp. mem. Coptic Archaeological Soc.; mem. Medieval Acad. of America, Mediterranean Acad., Rome; Hon. D.H.L. *Publications:* The Crusade of Nicopolis 1934, The Crusade in the Later Middle Ages 1938, Egypt and Aragon—Embassies and Diplomatic Correspondence between 1300 and 1330 1938, Kitab Qawanin al-Dawawin by Saladin's Wazir ibn Mammati 1943, History of the Patriarchs of the Egyptian Church (2 vols.) 1948-59, Monastery of St. Catherine in Mt. Sinai 1949, The Mt. Sinai Arabic Microfilms 1954, Coptic Music 1960, Crusade, Commerce and Culture 1962, The Crusades—Historiography and Bibliography 1962, History of Eastern Christianity 1968, Kitab al-Ilman by al-Nuwairy (7 vols.) 1968-76, etc. (all books in either English or Arabic). *Address:* 1335 Perry Avenue, Salt Lake City, Utah 84103, U.S.A. *Telephone:* Salt Lake City 328-3339.

ATIYAH, Michael Francis, PH.D., F.R.S.; British mathematician; b. 22 April 1929, London; s. of Edward Selim Atiyah and Jean (Levens) Atiyah; m. Lily Brown 1955; three s.; ed. Victoria Coll., Egypt, Manchester Grammar School and Trinity Coll. Cambridge. Research Fellow, Trinity Coll., Cambridge 1954-58, Hon. Fellow 1976-; Fellow, Pembroke Coll., Cambridge 1958-61, Univ. Lecturer 1957-61; Reader, Oxford Univ., and Fellow, St. Catherine's Coll., Oxford 1961-63; Savilian Prof. of Geometry, Oxford Univ., and Fellow of New Coll., Oxford 1963-69; Prof. of Mathematics, Inst. for Advanced Study, Princeton, N.J. 1969-72; Royal Soc. Research Prof., Oxford Univ.; Fellow, St. Catherine's Coll. 1973-; Pres. London Mathematical Soc. 1974-76; Fields Medal, Int. Congress of mathematicians, Moscow 1966; Royal Medal of Royal Soc. (U.K.) 1968; Hon. D.Sc. (Bonn, Warwick, Durham); Foreign mem. American Acad. of Arts and Sciences, Swedish Acad. of Sciences, Leopoldina Acad. (G.D.R.), N.A.S., Acad. des Sciences (France). *Publications:* K-Theory 1966, Commutative Algebra 1969. *Leisure interests:* gardening, music. *Address:* Mathematical Institute, 24 St. Giles, Oxford (Office); Shotover Mound, Headington, Oxford, England (Home). *Telephone:* Oxford 62359.

ATKINS, Rt. Hon. Humphrey Edward, P.C., M.P.; British Politician; b. 12 Aug. 1922; s. of late Capt. E. D. Atkins; m. Margaret Spencer-Nairn; 1944, one s. three d.; ed. Wellington Coll. Special entry cadetship, RN 1940, rank of Lieut. 1943, resgnd. 1948; M.P. for Merton and Mordern 1955-70, for Spelthorne 1970; Parl. Private Sec. to Civil Lord of the Admiralty 1959-62; Hon. Sec. Conservative Party Cttee. on Defence 1965-67; Opposition Whip 1967-70; Treasurer of H.M. Household and Deputy Chief Whip 1970-73; Parl. Sec. to Treasury and Govt. Chief Whip 1973-74; Opposition Chief Whip 1974-79; Sec. of State for Northern Ireland May 1979-; fmr. Vice Chair., Man. Cttee. Outward Bound. *Address:* House of Commons, Westminster, London, S.W.1; Tuckenhams, Waltham St. Lawrence, Berks., England.

ATKINS, Orin Ellsworth, LL.B.; American oil executive; b. 6 June 1924, Pittsburgh, Pa.; s. of Orin E. Atkins and Dorothy Whittaker Atkins; m. Kathryn Agee Atkins 1950; two s.; ed. Marshall Coll., Huntington, W. Va., Univs. of Pennsylvania and Virginia; admitted to W. Va. Bar 1950, Ky. Bar 1952; with Ashland Oil Inc. (Ky.) 1950-, Exec. Asst. 1956-59, Admin. Vice-Pres. 1959-65, Dir. 1962-, Pres. and Chief Exec. Officer 1965-72, Chair. of Board and Chief Exec. Officer 1972-. *Address:* 1409 Winchester Avenue, Ashland, Ky. 41101, U.S.A. (Office). *Telephone:* 606-329-3333 (Office).

ATKINSON, Sir Frederick John, K.C.B., M.A.; British civil servant; b. 7 Dec. 1919, London; s. of George E. Atkinson and Elizabeth S. Cooper; m. Margaret Grace Gibson 1947; two d.; ed. Jesus Coll., Oxford Univ. Lecturer, Jesus and Trinity Colls., Oxford 1947-49; Econ. Adviser, Cabinet Office 1949-51, at Embassy, Washington 1951-54 and at Treasury 1955-69; Chief Econ. Adviser, Dept. of Trade and Industry 1970-73; Asst. Sec.-Gen. OECD 1973-75; Deputy Sec. Chief Econ. Adviser, Dept. of Energy 1975-77; Chief Econ. Adviser, Treasury 1977-. *Leisure interest:* reading. *Address:* 26 Lee Terrace, London, S.E.3; Tickner Cottage, Church Lane, Aldington, Kent, England. *Telephone:* 01-852 1040; Aldington 514.

ATKINSON, Justin Brooks, A.B., L.H.D.(HON.); American writer and journalist; b. 28 Nov. 1894, Melrose, Mass.; s. of Jonathan Henry and Garafelia (Taylor) Atkinson; m. Oriana Torrey 1926; ed. Harvard Univ. Literary Editor New York Times 1922-25, Dramatic Critic 1925-42; War Corresp. in China 1943-44; Corresp. in Russia 1945-46; dramatic critic 1946-60; columnist 1960-64; Pulitzer Prize 1947; Fellow, American Acad. of Arts and Sciences. *Publications:* Henry Thoreau, the Cosmic Yankee 1927, East of the Hudson 1931, Cingalese Prince 1935, Once Around the Sun 1951, Tuesdays and Fridays 1963, Brief Chronicles 1966, Broadway 1970, This Bright Land 1972, The Lively Years 1973. *Address:* Durham, N.Y. 12422, U.S.A. *Telephone:* 518-239-6917.

ATKINSON, Maj.-Gen. Sir Leonard Henry, K.B.E., B.SC., C.ENG.; British army officer, engineer and company director; b. 4 Dec. 1910, Hale, Cheshire; s. of Arnold Henry and Catherine Mary (Cook) Atkinson; m. Jean Eileen Atchley 1939; three d. one s.; ed. Wellington Coll., Berks., Univ. Coll., London; apprentice with Satchwell Controls, Gen. Electric Co. (GEC), Slough 1932-36; Commissioned Lieut., Royal Electrical and Mech. Engs. (REME); on active service, H.Q. Guards Armoured Div. in Europe, H.Q. Airborne Corps India, later Europe, Far East, Australia, New Zealand, U.S.A., Canada, Ministry of Defence; retd. ■■ Dir. Electrical and Mech. Eng., Army, Ministry of Defence 1966; Col. Commdt. REME 1967-71; Dir. Harland Engineering 1966-69, WEIR 1969-72, United Gas Industries 1972-76, C. W. Walker 1973-75, now also Dir. Bespoke Securities, EMRAY Ltd., Chair. C. Gold Assocs.; Man. Dir. Harland Simon 1969-72; Chair. Council of Eng. Insts. 1974; Chair. Dept of Industry Terotechnology 1970-75; Fellow Univ. Coll., London 1977; Fellow, Inst. of Mech. Engs., Inst. of Electrical Engs., Inst. of the Motor Industry, Inst. of Gas Engs., Inst. of Electronic and Radio Engs. (Pres. 1968-69); Hon. mem. Plant Engs.; Wakefield Gold Medal 1976. *Leisure interests:* philately, photography. *Address:* Pound Cottage, Silchester, Reading, RG7 2LD, England. *Telephone:* Bramley Green (02-5686) 220.

ATRASH, Muhammad al-, PH.D.; Syrian international official; b. 13 Nov. 1934, Tartous; s. of Hassan Sayed al-Atrash and Aziza Sayed al-Atrash; m. Felicia al-Atrash 1958; two s. one d.; ed. American Univ., Beirut, Lebanon, American Univ., Washington, D.C., U.S.A., London School of Econs.; joined Cen. Bank of Syria 1963, Research Dept. 1963, Head of Credit Dept. 1966-70; Alt. Exec. Dir. IMF 1970-73; Deputy Gov. Cen. Bank of Syria 1974; Exec. Dir. IBRD 1974-76, IMF 1976-78; del. to Second Cttee. of UN Gen. Assembly, to UNCTAD and other int. econ. confs. 1963-70; part-time Lecturer, Univ. of Damascus 1963-70; mem. Deputies of IMF Interim Cttee. of the Board of Govs. on Reform of Int. Monetary System 1972-74; Assoc. mem. IMF Interim Cttee. 1974-76, *ex officio* mem. 1976-78. *Publications:* articles in Al-Abhath (Quarterly of the American Univ. of Beirut) 1963, 1964, 1966. *Leisure interests:* swimming, walking, reading books on history and literature. *Address:* c/o Ministry of Foreign Affairs, Damascus, Syria.

ATTAR, Mohamed Said al-; Yemeni economist; b. 26 Nov. 1927; m.; two c.; ed. Ecole Pratique des Hautes Etudes à la Sorbonne, Inst. d'Etude du Développement Econ. et Social (I.E.D.E.S.), Univ. de Paris. Research I.E.D.E.S. 1960-62; Dir.-Gen. Yemen Bank for Reconstruction and Devt. 1962-65; Minister of Econ. March-Aug. 1965; Pres. Econ. Comm. Oct. 1965-Feb. 1966; Pres. Board Yemen Bank and Pres. of Econ. High Comm. March 1966-68; Perm. Rep. to UN 1968-71, 1973-74; Deputy Premier for Financial Affairs and Minister of Economy Aug.-Sept. 1971; Exec. Sec. Econ. Comm. for W. Asia 1974-. *Publications:* L'industrie du gant en France 1961, L'épicerie à Paris 1961, Etude sur la croissance économique de l'Afrique Occidentale 1962, Le marché industriel et les projets de l'Arabie Saoudite 1962, Le sous-développement économique et social du Yémen (Perspectives de la révolution Yémenite) 1964, Arabic edition 1965. *Address:* Economic Commission for Western Asia, UN Building, P.O. Box 4656, Beirut, Lebanon.

ATTASSI, Lt.-Gen. Louai; Syrian army officer and politician; b. 1926; ed. Syrian Military Acad., and Staff Officers' Coll., Homs.; took part in Palestinian war 1948; opposed Syrian break with Egypt 1961; Garrison Commdr., Aleppo April 1962; Mil. Attaché, Syrian Embassy, Washington 1962-63; C.-in-C. of Syrian Armed Forces and Pres. of Revolutionary Council March-July 1963. *Address:* Damascus, Syrian Arab Republic.

ATTENBOROUGH, David Frederick, C.B.E., M.A.; British broadcaster and writer; b. 8 May 1926, London; s. of Frederick and Mary Attenborough; brother of Sir Richard Attenborough (*q.v.*); m. Jane Elizabeth Elsworth Oriel 1950; one s. one d.; ed. Wyggeston Grammar School, Leicester, and Clare Coll., Cambridge. Royal Navy 1947-49; Editorial Asst. in publishing house 1949-52; with BBC Television 1952-73, Trainee Producer BBC TV 1952-54, Producer of zoological, archaeological, travel, political and other programmes 1954-64, Controller BBC 2 1964-68, Dir. of Programmes, TV 1969-73; mem. Man. Board, BBC 1969-73; freelance broadcaster and writer 1973-; mem. Nature Conservancy Council 1975-; Trustee,

World Wild Life Fund British Nat. Appeal; Hon. D.Litt. (Leicester and City Univs.), Hon. D.Sc. (Liverpool) and Heriot-Watt), Hon. LL.D. (Bristol) 1977; Special Award, Guild of TV Producers 1961, Silver Medal, Royal TV Soc. 1966, Silver Medal, Zoological Soc. of London 1966, Desmond Davis Award, Soc. of Film and TV Arts 1970, Cherry Kearton Award, Royal Geographical Soc. 1972. *Publications:* Zoo Quest to Guiana 1956, Zoo Quest for a Dragon 1957, Zoo Quest in Paraguay 1959, Quest in Paradise 1960, Zoo Quest to Madagascar 1961, Quest under Capricorn 1963, The Tribal Eye 1976, Life on Earth 1979. *Leisure interests:* music, tribal art, natural history. *Address:* 5 Park Road, Richmond, Surrey, England.

ATTENBOROUGH, Sir Richard Samuel, Kt., C.B.E.; British actor, producer and director; b. 29 Aug. 1923; s. of Frederick and Mary Attenborough; brother of David Attenborough (*q.v.*); m. Sheila Sim; one s. two d.; ed. Wyggeston Grammar School, Leics., and Royal Acad. of Dramatic Art, London; first stage appearance in Ah! Wilderness, Palmers Green 1941; West End debut in Awake and Sing 1942; first film appearance In Which We Serve 1942; R.A.F. 1943, seconded to R.A.F. Film Unit 1944-46; returned to stage 1949; formed Beaver Films with Bryan Forbes (*q.v.*), appearing in and co-producing The Angry Silence 1959; formed Allied Film Makers 1960; produced Whistle Down the Wind 1961, The L-Shaped Room 1962, Seance on a Wet Afternoon 1963; directed Oh! What ■ Lovely War 1968, Young Winston 1971, A Bridge Too Far 1976-77, Magic 1978; Chair. Royal Acad. of Dramatic Art (RADA); Pro-Chancellor, Sussex Univ. 1970-; Gov. Nat. Film School 1970-; Chair. Capital Radio 1973-; mem. Cinematograph Films Council 1967-73, Arts Council of Great Britain 1970-72; Trustee, Tate Gallery 1976-; Best Actor Award, San Sebastian 1964, British Film Acad. 1964; Hollywood Golden Globe Awards 1966, 1967, 1969; First of Cinematograph Exhibitors Assn. annual awards for Distinguished Service to British Cinema 1967; Hon. D.Litt. (Leicester); Hon. D.C.L. (Newcastle). *Stage appearances include:* The Little Foxes 1942, Brighton Rock 1943, The Way Back 1949, To Dorothy a Son 1950-51, Sweet Madness 1952, The Mousetrap 1952-54, Double Image 1956-57, The Rape of the Belt 1957-58. *Film appearances include:* School for Secrets, The Man Within, Dancing with Crime, Brighton Rock, London Belongs to Me, The Guinea Pig, Morning Departure, Hell is Sold Out, The Magic Box, Gift Horse, Eight O'Clock Walk, The Ship that Died of Shame, Private's Progress, The Baby and the Battleship, Brothers in Law, Dunkirk, The Man Upstairs, Sea of Sand, Danger Within, I'm All Right Jack, Jet Storm, S.O.S. Pacific, The Angry Silence, The League of Gentlemen, Only Two Can Play, All Night Long, The Dock Brief, The Great Escape, Seance on a Wet Afternoon, The Third Secret, The Guns of Batasi, The Flight of the Phoenix, The Sand Pebbles, Dr. Dolittle, The Bliss of Mrs. Blossom, The Last Grenade, A Severed Head, David Copperfield, Loot, 10 Rillington Place, Ten Little Indians, Brannigan, Rosebud, Conduct Unbecoming, The Chess Players. *Leisure interests:* collecting 20th-century painting and Picasso ceramics, gramophone records, Chelsea Football Club. *Address:* Old Friars, Richmond Green, Surrey, England.

ATTIGA, Ali Ahmad, PH.D.; Libyan economist; b. Oct. 1931, Misratah; one s. five d.; ed. Univs. of Wisconsin and Calif. Asst. Econ. Adviser, Nat. Bank of Libya 1959-60, Head, Econ. Research Dept. and Chief Ed. Economic Bulletin 1960-64, 1966-68; mem. Joint Planning Cttee., Nat. Planning Council 1963-66; Under-Sec. Ministry of Planning and Devt. 1964-66; mem. Supreme Petroleum Council 1964-66; Chair. Energy Cttee., Nat. Planning Council 1965-66; Minister of Planning and Devt. 1968-69, of Econ. 1969; Gen. Man. Libya Insurance Co. 1970-73, Chair. 1973; Chair. and Founder, Nat. Investment Co. 1971-73; Chair. Libyan Hotels and Tourist Co. 1971-73; Dir. Arab Re-insurance Co., Beirut 1971-73; Sec.-Gen. Org. of Arab Petroleum Exporting Countries 1973-; mem. Board of Dirs., Coll. of Advanced Technology 1964-66. *Publication:* The Impact of Oil on the Libyan Economy 1956-1969 1974. *Address:* Organization of Arab Petroleum Exporting Countries, P.O. Box 20501, Kuwait. *Telephone:* 434003, 420061 (Office); 533584 (Home).

ATTIYIA, Mahmoud Ibrahim, B.SC.; Egyptian geologist; b. 1900; ed. Cairo and Imperial Coll. of Science and Technology, London. Asst. Lecturer, School of Eng., Giza 1923-25; Geologist, Geological Survey of Egypt 1929, Asst. Dir. 1939, Dir. 1949; Dir.-Gen. Mines and Quarries Dept. 1954-56; Tech. Dir. Mineral Wealth Co. and Sinai Manganese Co., Cairo 1956-62; Chair. and Man. Dir. Associated Mines Co. 1962-65; delegated Prof. of Geology, Cairo Univ.; A.R.C.S. London 1929; F.G.S. London 1930, mem. Inst. d'Egypte 1946; mem. Board of the Desert Inst. of Egypt 1950; mem. Egyptian Acad. of Sciences 1950, Pres. 1968-; mem. Conseil d'Egypte 1946-; State Prize in Geological and Chemical Sciences 1950; Order of the Republic (Egypt) 1954. *Publications:* Notes on the Underground Water in Egypt 1942, The Barramiya Mining District 1948, New Mode of Occurrence of Iron-Ore Deposits 1949, Iron-Ore Deposits of Egypt 1950, Ground-Water in Egypt 1953, Deposits in the Nile Valley and the Delta 1954, Iron-Ore Deposits of the District East of Aswan 1955, Manganese Deposits of Egypt 1956. *Address:* 10 Diwan Street, Garden City, Cairo, Egypt.

ATWOOD, John Leland, A.B., B.S.; American engineer; b. 26 Oct. 1904; ed. Hardin Simmons Univ. and Univ. of Texas. Junior Engineer, Army Air Corps, Wright Field, Ohio 1928; Design Engineer, Douglas Aircraft Co. 1930-34; Vice-Pres. and Chief Engineer, North American Aviation Inc. (became North American Rockwell, now Rockwell Int. Corpn.) 1934, Pres. 1948-70, Chief. Exec. Officer 1960, Chair. of the Board 1962, Senior Consultant and Dir. 1970-78; Hon. Fellow, American Inst. of Aeronautics and Astronautics, Pres. 1954–; mem. Soc. Automotive Engineers. *Address:* Rockwell International Corporation, 2230 East Imperial Highway, El Segundo, Calif. 90245, U.S.A.

ATZMON, Moshe; Israeli conductor; b. 30 July 1931, Budapest, Hungary; m. 1954; two d.; ed. Tel-Aviv Acad. of Music, Guildhall School of Music, London; left Hungary for Israel 1944; played the horn professionally in various orchestras for several years; second prize Dimitri Mitropoulos Competition for Conductors, New York 1963; Leonard Bernstein Prize 1963; First Prize, Int. Conductors Competition, Liverpool, England 1964; has conducted in Israel, England, Australia, Germany, Sweden, Norway, Switzerland, Spain, Finland, Italy, Austria, Turkey and U.S.A.; Chief Conductor, Sydney Symphony Orchestra 1969-71; Chief Conductor, North German Symphony Orchestra 1972; Musical Dir. Basle Symphony Orchestra 1972. *Leisure interests:* reading, travelling. *Address:* 16 Canfield Gardens, London, N.W.6, England. *Telephone:* 01-624 6322.

AUBERT, Jacques, D.EN.D.; French administrator and politician; b. 6 Aug. 1913, Cherbourg; s. of Louis-Charles Aubert and Marie-Louise (née Allain) Aubert; m. Nicole de la Hautière 1944; one s. three d.; ed. Lycée de Brest, Faculté de droit de Paris and Ecole libre des Sciences Politiques. Legal Adviser Ministry of Foreign Affairs 1939-40; Asst. to Sec.-Gen. of Comm. on Cotton Imports 1941-42; Chef du Cabinet of Prefect 1942; Asst. Prefect, Dir. of Security for French Occupation Zone in Austria 1947, Sec.-Gen., Vienna 1951; Asst. Prefect, Dreux 1953; Asst. Dir. Private Office of Pierre Voizard, Resident Gen. of France at Tunis 1954, Sec.-Gen. Martinique, Constantine 1955; Dir. Private Office of Abdelkadar Barakrok, Sec. of State for Algeria, and Private Offices of Bourgès-Manoury and Félix Gaillard 1957-58; Prefect and Technical Adviser, Private Office of Prefect of Police 1958; Dir. Sûreté Nationale in Algeria 1960-61; Prefect of Loir-et-Cher 1961; Dir.-Gen. Sûreté Nationale 1962; Dir. Private Office of R. Frey, Minister of the Interior 1962-66; Sec.-Gen. of the Police 1967-69; Counsellor of State 1969-; Officier Légion d'honneur, Croix de la valeur militaire, Commandeur du Mérite (Ordre national du Mérite). *Address:* 33 rue Poussin, 75016 Paris, France.

AUBERT, Pierre; Swiss politician and lawyer; b. 3 March 1927, La Chaux-de-Fonds; s. of the late Alfred and Henriette Erni Aubert; m. Anne-Lise Borel 1953; one s. one d.; ed. Univ. of Neuchatel; mem. of local Ass., La Chaux-de-Fonds 1960-68, Pres. 1967-68; mem. Legislative Ass. of Canton of Neuchâtel 1961-75, Pres. 1969-70; Labour mem. Council of States (upper house of Fed. Ass.) 1971-77; mem. Fed. Council (Govt.) Feb. 1978-, Head of Fed. Political (Foreign Affairs) Dept. Feb. 1978-; mem. Parl. Ass. of Council of Europe. *Leisure interests:* camping, boxing, skiing, cycling, theatre, watches. *Address:* Federal Political Department, Palais fédéral, 3003 Berne, Switzerland.

AUBINIÈRE, Gen. Robert Joseph; French air force officer and astronautical specialist; b. 24 Sept. 1912, Paris; s. of Gaston Aubinière and Georgette (née Conraux) Aubinière; m. Geneviève Beauville 1936; six d.; ed. Ecole Polytechnique, and air force training; war service, North Africa 1942, Chief of Operations, N. Region of France 1943, then sent to a concentration camp; Vice-Commdt., Ecole de l'Air de Salon-de-Provence 1945-48, Commdt. 1960; Air Force Staff Colleges 1949; Deputy Chief-of-Staff 5th Airborne Region 1950-53; Commdt., Ground Staff Training School Rochefort 1954-57, Centre Interarmées d'Essais d'Engins Spéciaux, Colomb-Béchar 1957-58; promoted Gén. de Brigade Aérienne 1958; Technical and Industrial Dir. of Aeronautics 1960; promoted Gén. de Division Aérienne 1961; Dir.-Gen. Centre National d'Etudes Spatiales 1962-71; Pres. of Council of Admin. of ELDO 1968-70, Sec.-Gen. 1972-74; Grand Officier Légion d'honneur, Croix de guerre, Médaille de l'aéronautique. *Address:* 1 rue Anatole-France, 92290 Châtenay-Malabry, France.

AUBRÉVILLE, André Marie Alphonse; French forest and botanical specialist; b. 30 Nov. 1897, Pont St. Vincent; s. of Henri Aubréville and Thérèse (née Denaive) Aubréville; m. Marguerite

Betrand 1927; one d.; ed. Ecole Polytechnique and Ecole Nationale des Eaux et Forêts; career in Waters and Forests Service, Overseas France 1925-55; Insp.-Gen. of Forest Services, Overseas France 1939-55; numerous missions in tropical countries, mainly in Africa; Prof. in Muséum National d'Histoire Naturelle, holding titular chair of Phanerogamy, Dir. Lab. of Phanerogamy 1958-68; Hon. Emer. Prof. at Muséum Nat. d'Histoire Naturelle 1968-; mem. Acad. d'Agric. de France; mem. Acad. des Sciences and Acad. des Sciences d'Outre Mer; Officier, Légion d'honneur; Médaille militaire; Croix de guerre (1914-18). *Publications:* Flore forestière de la Côte d'Ivoire 1936, Climats, forêts et désertification de l'Afrique tropicale 1949, Flore forestière soudano-guinéenne 1950, Etude écologique des principales formations végétales du Brésil 1961, Direction des flores du Gabon, du Cameroun, de Madagascar et des Comores, du Cambodge-Laos-Vietnam, de la Nouvelle Calédonie, etc. *Leisure interests:* world-wide travel, gardening. *Address:* 16 rue Buffon, Paris 5e (Office); 118 boulevard Raspail, Paris 6e, France (Home). *Telephone:* 331-30-35 (Office); 548-82-68 (Home).

AUBRUN, Charles Vincent; French professor of Spanish; b. 4 April 1906, Clichy-Paris; s. of Charles F. and Suzanne (née Miraucourt) Aubrun; m. Hilda Grace Donnelly 1929; ed. Univ. of Paris. Prof., Univ. of Poitiers 1939-45, Univ. of Bordeaux 1945-51, Univ. of Paris 1951-72, Dir. Centre of Hispanic Studies 1953-72, Univ. of Nice 1972-78; Guest Prof. Univ. of Texas, Austin, Columbia Univ., U.C. Santa Barbara, Cornell, Stanford, Bloomington, San José de Costa Rica, U.C. Los Angeles; Chevalier de la Légion d'honneur, Commandeur Palmes académiques. *Publications:* Bolivar: choix de lettres, discours, proclamation 1934, Lope de Vega, Peribáñez 1943, Le chansonnier espagnol d'Herberay des Essarts, 15e siècle 1951, L'Amérique Centrale 1952-74, Histoire des lettres hispano-américaines 1954, Calderón, La estatua de Prometeo 1961, Calderón, Eco y Narciso 1961, Bolívar, Cuatro cartas y una memoria 1961, Lope de Vega, La Circe 1962, Histoire du théâtre espagnol 1965, 1968, La comédie espagnole (1600-1680) 1966, L'espagnol à l'Université (2 vols.) 1967, 1970, L'Espagne au siècle d'or 1971, La littérature espagnole 1977. *Leisure interests:* drawing, mathematics. *Address:* Mennetou-sur-Cher 41320, Loir-et-Cher, France (Home).

AUCHINCLOSS, Louis Stanton, LL.B., D.LITT.; American lawyer and author; b. 27 Sept. 1917; ed. Groton School, Yale Univ. and Univ. of Virginia; admitted to New York Bar 1941, Assoc. Sullivan and Cromwell 1941-51, Hawkins, Delafield and Wood, New York 1954-58, partner 1958-; Lieut. U.S. Navy 1941-45; Pres. Museum of the City of New York; mem. Nat. Inst. of Arts and Letters. *Publications:* The Indifferent Children 1947, The Injustice Collectors 1950, Sybil 1952, A Law for the Lion 1953, The Romantic Egoists 1954, The Great World and Timothy Colt 1956, Venus in Sparta 1958, Pursuit of the Prodigal 1959, House of Five Talents 1960, Reflections of a Jacobite 1961, Portrait in Brownstone 1962, Powers of Attorney 1963, The Rector of Justin 1964, Pioneers and Caretakers 1965, The Embezzler 1966, Tales of Manhattan 1967, A World of Profit 1969, Motiveless Malignity 1969, Edith Wharton: A Woman in Her Time 1971, I Come as a Thief 1972, Richelieu 1972, The Partners 1974, A Winter's Capital 1974, Reading Henry James 1975, The Winthrop Covenant 1976, The Dark Lady 1977, The Country Cousin 1978. *Address:* 1111 Park Avenue, New York, N.Y. 10028, U.S.A.

AUCHINLECK, Field-Marshal Sir Claude John Eyre, G.C.B., G.C.I.E., C.S.I., D.S.O., O.B.E.; British army officer; b. 21 June 1884, Aldershot; s. of Col. J.C.A. Auchinleck R.H.A. and Mary E. Eyre; ed. Wellington Coll. and Royal Mil. Coll., Sandhurst; commissioned Indian Army 1903; joined 62nd Punjabis 1904; served Egypt 1914-15, Aden 1915, Mesopotamia 1916-19; Imperial Defence Coll. 1927; commanded 1st Battalion 1st Punjab Regt. 1929-30; Instructor Staff Coll. Quetta 1930-33; Commdr. Peshawar Brigade 1933-36; Deputy Chief of Gen. Staff Army Headquarters India 1936-38, Commdr. Meerut District 1938; mem. Expert Cttee. on Indian Defence 1938; Commdr. Allied Land Forces in Northern Norway 1940; G.O.C.-in-C. Southern Command 1940; Commdr.-in-Chief India 1941, Middle East 1941-42, India 1943-47; Chair. Dowsett Holdings Ltd. 1954; Chair. Murrayfield Real Estate Co. Ltd. 1958; Hon. LL.D. (Aberdeen, St. Andrews, Manchester); Virtuti Militari (Poland) 1942; War Cross (Czechoslovakia) 1944; Order of Chief Commdr., Legion of Merit (U.S.A.) 1945; Order of Star of Nepal (1st Class) 1945; Grand Cross, Order of St. Olaf (Norway) 1947; Order of Cloud and Banner (China) 1947; Grand Officier, Légion d'honneur 1949. *Leisure interests:* travel, sketching, fishing, walking. *Address:* Villa Rikichou, rue Hafid Ibrahim, Marrakesh, Morocco; c/o National & Grindlays Bank, 13 St. James's Square, London, S.W.1, England. *Telephone:* 300-13.

AUDENHOVE, Omer Van; Belgian politician; b. 3 Dec. 1913; mem. Resistance, Second World War; mem. Municipal Council, Diest 1946-, Mayor 1947-58; mem. Belgian Senate 1954-; Minister of Public Works and Reconstruction 1955-58, 1958-61; Président Parti Libéral de Belgique May-Oct. 1961, Founder, Parti de la Liberté et du Progrès Oct. 1961, Pres. 1961-69; Officier de l'Ordre de la Couronne; Officier Ordre de Léopold II avec Palmes; Chevalier de l'Ordre de Léopold; Croix de Guerre avec Palmes; Grand Croix de l'Ordre Orange-Nassau (Netherlands). *Publication:* Deux lois indispensables. *Address:* Villa Gilden Boom, Schaffen (lez Diest), Belgium.

AUDRAN, Stéphane; French actress; b. 8 Nov. 1932, Versailles; m. Claude Chabrol 1964; one s.; studied drama under Tania Balachova and Michel Vitold. *Films include:* Les bonnes femmes 1959, Les godelureaux 1960, L'oeil du malin 1961, Landru 1962, Line of Demarcation 1966, Champagne Murders 1966, Les biches 1968, La femme infidèle 1968, La peau de torpedo 1969, La dame dans l'auto avec les lunettes et un fusil 1969, Le boucher 1970, La rupture 1970, Aussi loin que l'amour 1970, Juste avant la nuit 1971, Without Apparent Motive 1971, Un meurtre est un meurtre 1972, Dead Pigeon on Beethoven Street 1972, Discreet Charm of the Bourgeoisie 1972, Les noces rouges 1973, Comment reussir dans la vie quand on est con et pleurnichard 1973, Le cri du coeur 1974, Les dix petits nègres 1974, B Must Die 1974, The Black Bird 1975, Vincent, Francois, Paul and Others 1975, Folies bourgeoises 1976, Violette 1978. *Address:* 49 boulevard du Chateau, 92200 Neuilly-sur-Seine, France.

AUDRY, Colette; French writer; b. 6 July 1906; ed. Ecole Normale Supérieure, Sèvres. Prof. of Literature, Lycée Molière, Paris 1945-65; Literary Critic Les Temps Modernes 1945-55; on staff Editions, Denoël 1963-; film-set designer and scriptwriter; Prix Medicis for Derrière la baignoire 1962. *Publications:* On joue perdant, Aux yeux du souvenir, Léon Blum ou la politique du juste, Connaissance de Sartre, Sartre ou la réalité humaine 1966, L'autre planète 1972; screen-plays: Les malheurs de Sophie, La bataille du rail, Olivia, Absence, Liberté surveillée, Derrière la baignoire, Fruits amers, Le Socrate; play: Soledad. *Address:* Résidence du Val (3b), 91-Palaiseau, France.

AUER, Väinö, PH.D., F.I.A.L.; Finnish geologist and geographer; b. 7 Jan. 1895; ed. Helsinki Univ.; mem. Forest Research Inst. 1918-29; Geologist, Geological Survey of Canada 1926; Lecturer in Geography, Helsinki Univ. 1922-29, Prof. 1929-53, Prof. in Geology 1957-63; Rockefeller scholarship 1926; leader geographical expedition, Patagonia and Tierra del Fuego 1928-29; Pres. Finnish Geographical Society and Finnish Forestry Assn. 1935-36; leader geographical expeditions to Patagonia 1937-38, 1947-53 and 1957; Hon. Dir. Forestry Research of Argentina 1947; mem. Finnish Acad. of Science (Pres. 1959); highest award of honour of Finnish Culture Foundation, Finnish Acad. of Sciences, Kordelin Foundation; Fennia Gold Medal 1950; Kairamo Silver Medal 1950; Cajander Medal 1955; Martin Behaim Silver Medal 1959; Rueppell Silver Medal 1961; Helsinki Univ. Medal; Eskola Gold Medal 1975; war medals; Commdr. (First Class) Order of Lion, Finland; Commdr. of White Rose, Finland. *Publications:* Verschiebungen der Wald- und Steppengebiete Feuerlands in post-glazialer Zeit, Las Capas Volcánicas como Base de la Cronología Postglacial de Fuegopatagonia, Peat bogs in Southeastern Canada, Nuevos Aspectos de la Sequía en la Patagonia. The Pleistocene of Fuego-Patagonia: I The Ice and Inter-Glacial Ages, II History of the Flora and Vegetation, III Shoreline Displacements, IV Bog Profiles, V Quarternary Problems of Southern South America, etc. *Address:* Rakuunantie 4, B, 14, Helsinki 33, Finland. *Telephone:* Helsinki 486433.

AUERBACH, Charlotte, D.SC., PH.D., F.R.S., F.R.S.E.; British geneticist; b. 14 May 1899, Crefeld, Germany; ed. Univs. of Würzburg, Freiburg, Berlin and Edinburgh; left Germany 1933; Asst., Inst. of Animal Genetics, Univ. of Edinburgh, Lecturer 1946, Reader 1957, Prof. 1967, Prof. Emer. 1969-; Visiting Prof. Oak Ridge Nat. Laboratory, U.S.A. 1958; mem. Japan Genetics Soc., Danish Acad. of Sciences; Foreign Assoc. N.A.S., U.S.A. 1970; Hon. D.Sc. Leiden (Netherlands) 1975, Cambridge 1977, Dublin 1977; Darwin Medal (Royal Soc.) 1976. *Publications include:* Adventures with Rosalind (children's book) 1945; Genetics in the Atomic Age 1956, 1965, The Science of Genetics 1962, 1969, Mutation 1962, Heredity 1965, Mutation Research 1976. *Leisure interests:* literature, music, hiking, gardening. *Address:* Institute of Animal Genetics, The University, West Mains Road, Edinburgh 9, Scotland.

AUERBACH, Frank; British artist; b. 29 April 1931, Berlin; s. of Max and Charlotte Auerbach; m. Julia Wolstenholme 1958; one s.; ed. St. Martin's School of Art, London, Royal Coll. of Art; one-man exhbns. at Beaux-Arts Gallery, London 1956, 1959, 1961, 1962, 1963, Marlborough Fine Art, London 1965, 1967, 1971, 1974, Marlborough Gallery Inc., New York 1969, Villiers Art Gallery, Sydney

1972, Univ. of Essex, Colchester 1973, Galleria Bergamini, Milan 1973, Retrospective Exhbn., Arts Council, Hayward Gallery, London 1978; group exhbns. at Tooths Gallery, London 1958, 1971, N.Y. Foundation, Rome 1958, Carnegie Int. Exhbn., Pittsburg 1958, 1961, Dum Int. Exhbn., London 1963, Gulbenkian Exhbn., London 1964, Marlborough Graphics, London 1966-71, Peter Stuyvesant Foundation Collection, London 1967, Graphics Triennial, Bienne 1970, Palazzo dell' Accad. and Palazzo Reale, Genoa 1972, Marlborough-Godard, Toronto 1973; Los Angeles County Museum 1975, European Painting in the Seventies, U.S.A. 1976; works in public collections in U.K., Australia, Brazil, U.S.A.; Silver Medal for painting, Royal Coll. of Art. *Address:* c/o Marlborough Fine Art Gallery, 6 Albemarle Street, London, W1X 3HF, England.

AUERBACH, Stanley Irving, M.S., PH.D.; American ecologist; b. 21 May 1921, Chicago, Ill.; s. of Abraham and Carrie Friedman Auerbach; m. Dawn Patricia Davey 1954; two s. two d.; ed. Univ. of Illinois and Northwestern Univ. Second Lieut. U.S. Army 1942-44; instructor, then Asst. Prof., Roosevelt Univ., Chicago 1950-54; Assoc. scientist, then scientist, Health Physics Div., Oak Ridge Nat. Laboratory 1954-59, Senior Scientist, Section Leader 1959-70, Dir. Ecological Sciences Div. 1970-72, Environmental Sciences Div. 1972-; Adjunct Research Prof. Radiation Ecology, Univ. of Georgia, Athens, Ga. 1964-; Adjunct Prof., Dept. Ecology, Univ. of Tenn., Knoxville 1976-; mem. U.S. Cttee. Int. Biological Program; Dir. Deciduous Forest Biome Project 1969-; mem. Special Comm. on Biological Water Quality of Ohio River Valley Sanitation Comm. 1971-, Board Environmental Consultants for Tenn.-Tombigbee Waterway, U.S. Army Corps of Engineers 1976-, Energy Research and Devt. Admin. (ERDA) *Ad Hoc* Cttee. on Shallow Land Burial of Transuranic Waste, Pres.'s Cttee. on Health and Ecological Effects on Increased Coal Utilization 1977, Research Advisory Cttee., Resources for the future; mem. Board of Trustees, Inst. of Ecology 1971-74, N.A.S.—NRC Board on Energy Studies, Board of Govs. American Inst. of Biological Sciences, Ecological Soc. of America (Chair. Nominating Cttee. 1972-), Scientific Research Soc. of America (Pres. Oak Ridge Br. 1972-), Cttee. on Energy and the Environment (N.A.S.—NRC) (Chair. Div. of Ecology), American Soc. of Zoologists, British Ecological Soc., Nature Conservancy, Entomological Soc. of America, Health Physics Soc., Wilderness Soc., Soc. of Systematic Zoology; Assoc. Ed. Radiation Biology, Radiation Research (A.A.A.S.). *Publications:* miscellaneous publications in ecology and radioecology. *Address:* Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tenn. 37830, U.S.A. *Telephone:* (615) 574-7301.

AUGER, Pierre Victor, D.ÈS S.; French physicist and university professor; b. 14 May 1899; s. of Victor and Eugénie Auger; m. Suzanne Motteau 1921; two d.; ed. Ecole Normale Supérieure, and Univ. of Paris. Asst., Faculty of Sciences, Univ. of Paris 1927, Dir. of Studies 1932, Prof. 1937-; Research Assoc. Univ. of Chicago 1941-44; Dir. of Higher Educ., Ministry of Educ., Paris 1945-48; Dir. Dept. of Natural Sciences UNESCO 1948-59; Chair. French Cttee for Space Research 1959-62; mem. Anglo-Canadian team on Atomic Energy, Canada 1942-44; French del. to UN Atomic Energy Comm. 1946-48; Dir.-Gen. European Space Research Org. 1962-67; mem. French Acad. of Sciences 1977; Grand Officier, Légion d'honneur, Commandeur des Palmes académiques; Int. Feltrinelli Prize 1961, Kalinga Prize 1972, Gaede Langmuir Award 1978. *Publications:* Les rayons cosmiques 1941, What are Cosmic Rays? 1944, L'homme microscopique 1952, Main Trends in Scientific Research 1961. *Leisure interests:* popularization of science through the media, sculpture. *Address:* 12 rue Emile Faguet, Paris 75014; 42 avenue Raymond Poincaré, Paris 75016, France. *Telephone:* 502-14-23 (Office); 540-96-34 (Home).

AUGSTEIN, Rudolf; German magazine publisher; b. 5 Nov. 1923; ed. High School. Lieut., Second World War; Publr. Der Spiegel (weekly) 1946-; under arrest (for alleged political offence) Oct. 1962-Feb. 1963, elected Bundestag Nov. 1972, resigned Jan. 1973. *Publications:* Spiegelungen 1964, Konrad Adenauer 1964, Preussens Friedrich und die Deutschen 1968, Jesus Menschensohn 1972. *Address:* Der Spiegel, Ost-West-Strasse, Hamburg 11, Federal Republic of Germany. *Telephone:* 040-3-00-71.

AUGUSTINČIĆ, Antun; Yugoslav sculptor; b. 1900.; joined Partisan movement 1943; Vice-Pres. Anti-Fascist Council for Nat. Liberation of Yugoslavia. *Works include:* memorial in front of U.N. HQ, New York, busts of Pres. Tito, Memorial to Red Army at Batina Skela on the Danube and Memorial to Pilsudski; Memorial to Miner, Geneva Memorial to Victims of Fascism, Addis Ababa Memorial to Ras Makonen; mem. Yugoslav Acad. Sciences and Arts. *Address:* Yugoslav Academy of Sciences and Arts, Brace, Kavurćia 1, Zagreb, Yugoslavia.

AUJALEU, Eugène Jean Yves; French physician; b. 29 Oct. 1903, Negrepelisse, Tarn et Garonne; s. of Eugène Henri Aujaleu (Dr. Med.) and Clare Pailler; m. Blanche Dumas 1937; two d. (one deceased); ed. Toulouse Faculty of Medicine; taught at mil. school of medicine 1936; Inspector-Gen. of Health 1941; Dir. Health Service, Free French Govt. Algiers 1942-44; Dir. of Social Hygiene, Ministry of Health 1945; Dir.-Gen. of Public Health 1956-64; Dir.-Gen. Nat. Inst. of Health and Medical Research 1964-69, Hon. Dir.-Gen.; Councillor of State 1966-70; Chair. WHO Exec. Board 1959-60; Pres. 21st World Health Assembly 1968, Int. Centre for Cancer Research, Lyons 1965-71, Mental Health Assen. 1967-, Conseil supérieur d'hygiène publique 1976. *Leisure interests:* music, gardening. *Address:* 144 boulevard du Montparnasse, Paris 75014, France. *Telephone:* 322 5930.

AUNE, Leif Jørgen; Norwegian politician; b. 7 June 1925, Bodø. Consultant, Industrial Devt. Assen. for N. Norway 1951; Sec. Office for Regional Planning, Nordland 1951; Consultant, Devt. Fund for N. Norway 1954; Deputy Dir.-Gen. Regional Devt. Fund 1961; Exec. Dir. of Finance, Tromso 1970-73; Under-Sec. of State, Ministry of Local Govt. and Labour 1971-72; Minister of Local Govt. and Labour 1973-78; Labour. *Address:* Ministry of Local Government and Labour, Oslo, Norway.

AURA, Teuvo Ensio, LL.M.; Finnish politician; b. 28 Dec. 1912, Ruskeala; s. of Jalo Aura and Aino Sofia Kolehmainen; m. 1st Kaino Kielo Kivekäs 1939 (died 1970), two s. one d.; m. 2nd Sirkka Annikki Wiik 1976; ed. Univ. of Helsinki; worked for Board of Supply 1940-41, Chair. 1942; Dir. Post Office Savings Bank 1942-43, Dir.-Gen. 1943-68; Chair. Econ. Council 1946-47, 1951-56; mem. Joint Del. of Credit Inst. 1949-68; Minister of Commerce and Industry 1950-51, 1953-54, 1957; Minister of Justice 1951; Chair. Admin. Board of Industrialization Fund 1954-60; mem. Finance Board 1953-; mem. Board, Mutual Life Insurance Co., Salama 1950-71, Insurance Co. Pohjola 1955-, Helsinki Chamber of Commerce 1958-; mem. of Admin. Board, Rauma, Repola and Kemira Oy 1961-72; Chair. Admin. Board, Aluma Oy, IBM in Finland, Finnish Fair Co-operation, L. M. Ericsson in Finland Oy and Mankala Oy; mem. Bourse of Helsinki, Union of the Finnish Lawyer; Lord Mayor of Helsinki 1968-; Prime Minister May-July 1970, Oct. 1971-Feb. 1972; Commdr., First Class, Order of the White Rose, Order of the Cross of Liberty, Commdr. Order of the Lion of Finland and many other honours. *Publications:* Talous ja yhteiskunta (Economy and Society); several articles on political economy and communal politics in various publications. *Leisure interests:* literature and art. *Address:* Helsinki City Hall, Pohjoisesplanadi 11-13, 00170 Helsinki; (Office); Aleksanterinkatu 14, Helsinki 00170, Finland (Home). *Telephone:* 169-2200 (Office); 625-506 (Home).

AURIC, Georges; French composer; b. 15 Feb. 1899; ed. Paris Conservatoire and Schola Cantorum, Paris; mem. "Les Six" movement in France; Music Critic, Marianne 1936, and later Paris-Soir; Dir. of Réunion des théâtres lyriques nationaux 1962-68; Pres. Int. Confederation of Socs. of Authors and Composers 1968-70; mem. Acad. des Beaux-Arts; Grand Prix National 1978; Grand Officier Légion d'honneur 1976, and other decorations. *Compositions include:* songs and piano music; film music, e.g. for René Clair's A Nous la Liberté 1932 and Jean Cocteau's L'aigle à deux Têtes 1948; ballet music includes Le peintre et son modèle 1949; Phèdre 1950, Chemin de lumière 1952, Coup de feu 1952; Le masque (opera); sonata for piano for unaccompanied four-part chorus 1950. *Address:* 36 avenue Matignon, Paris 8e, France.

AUSTIN, (John) Paul; American business executive; b. 14 Feb. 1915, Lagrange, Ga.; s. of late Samuel Yates Austin and Mrs. S. Y. Austin; m. Jeane Weed; two s.; ed. Harvard Univ., Harvard Law School and Culver Military Acad.; legal practice, New York 1940-41, 1945-49; U.S. Navy 1942-45; Legal Dept., The Coca-Cola Co. 1949-50, Asst. to Pres. The Coca-Cola Export Corpn. 1951-52, Vice-Pres. 1952-58; Pres. and Dir. The Coca-Cola Export Corpn. 1959-62, Exec. Vice-Pres. The Coca-Cola Co. 1961-62, Pres. 1962-71, Chief Exec. Officer 1966-, Chair. of Board 1970-; Dir. Morgan Guaranty Trust Co. of New York, Gen. Electric Co., Trust Co. of Georgia, Fed. Dept. Stores, Inc., Southern Mills Inc., Grocery Mfrs. of America; Trustee, U.S. Council of Int. Chamber of Commerce; Chair. Bd. of Trustees, Rand Corpn.; mem. Bd. of Regenta, Smithsonian Inst.; Legion of Merit. *Address:* P.O.B. 1734, Atlanta, Ga. 30301, U.S.A.

AUSTREGÉSILO DE ATHAYDE, Belarmino Maria; Brazilian journalist; b. 25 Sept. 1898, Caruarú, Pernambuco; s. of José Feliciano Augusto de Athayde and Constância Adelaide Austregésilo de Athayde; m. Maria José de Queiroz; two s. one d.; ed. Seminário de Prainha, Fortaleza, Liceu do Ceará and Univ. do Rio de Janeiro; teacher 1917-18; Dir. Sec. A Tribuna 1918-21; on staff

of Correio da Manhã 1921; Dir. O Jornal (with Diários Associados) 1924-32; exiled for political reasons 1932; Dir. Diário da Noite; Editor-in-Chief O Jornal; mem. Brazilian Del. UN Gen. Assembly, Paris 1948; mem. Brazilian Acad. of Letters 1931-, Pres. 1959-; Ordem do Mérito Naval Aeronáutico 1957, Militar 1963, Jornalístico 1965; numerous foreign decorations. *Publications:* Histórias Amargas 1921, Quando as Hortencias Florescem 1921, A Influência Espiritual Americana 1938, Fora da Imprensa 1948, Mestre de Liberismo 1952, Na Academia 1953, Discurso de recepção a José Lins do Rego 1956, Vanaverba 1966, Epistola aos Contemporâneos 1967, Conversas na Barbearia Sol 1971. *Address:* Academia Brasileira de Letras, Avenida Presidente Wilson 203, Rio de Janeiro, RJ (Office); Rua Cosme Velho 599, Rio de Janeiro, RJ, Brazil (Home). *Telephone:* 225-4368 (Home).

AUTANT-LARA, Claude; French film director and author; b. 5 Aug. 1901; ed. Lycée Janson de Sailly, Mill Hill School, London, Ecole des Arts Décoratifs, and Ecole des Beaux-Arts; entered French film industry 1920; directed first short picture Faits-Divers 1923; Hon. Pres. Syndicat des Techniciens du Cinéma Français; Pres. Fédération Nationale du Spectacle; Chevalier de la Légion d'honneur; Commandeur des Arts et des Lettres. *Principal films:* Le mariage de chiffon, Sylvie et le fantôme, Occupe-toi d'Amélie, Le diable au corps, Douce, The Red Inn, Game of Love, Le rouge et le noir, Seven Sins, Marguerite de la nuit, La traversée de Paris, En cas de malheur, La jument verte, Le bois des amants, Tu ne tueras point, Vive Henri-IV, Vive l'amour, Le Comte de Monte-Cristo, Le meurtrier, Le magot de Joséfa, Le journal d'une femme en blanc, Le nouveau journal d'une femme en blanc, Le plus vieux métier du monde 1967, Le franciscain de Bourges 1968, Les patates, Lucien Leuwen (TV serial) 1973, Gloria. *Address:* 66 rue Lepic, 75018 Paris, France.

AVEDON, Richard; American photographer; b. 15 May 1923, New York; s. of Jack Avedon and Anna Polonsky; m. 1st Dorcas Nowell 1944, 2nd Evelyn Franklin 1951; one s.; ed. Columbia. Staff photographer Harper's Bazaar 1946-65, Vogue magazines 1966-; one man exhbns. Smithsonian Inst. 62, Minneapolis Inst. of Arts 70, Museum of Modern Art 74, Marlborough Gallery, New York 75, Metropolitan Museum of Art, New York 1978; his work is represented in collections of many major museums and in private collections; Fellow Timothy Dwight Coll. Yale Univ. 1975-; Pres.'s Fellow Rhode Island School of Design 1979; Highest Achievement Medal Awards, Art Dirs. Show 1950-. *Publications:* Observations 1959, Nothing Personal 1964, Editor Diary of a Century (photographs by Jacques Henri Lartigue, q.v.) 1970, Alice in Wonderland 1973, Portraits 1976, Rolling Stone Magazine, "The Family" 1976, Avedon: Photographs 1947-77 1978. *Leisure interest:* photography. *Address:* 407 East 75th Street, New York, N.Y. 10021, U.S.A. *Telephone:* 879-6325.

AVELINE, Claude; French writer and painter; b. 19 July 1901, Paris; only s. of Georges Avtsine and Cecile Tchernomordik; m. Jeanne Barusseaud 1964; one adopted s. Hon. Pres. Soc. Anatole France; Pres. of Jury for Prix Jean-Vigo (Cinema) 1950-75; exhbns. of fibre-tip colour paintings in Paris 1972, 1974, 1978, Ljubljana 1973, Brussels 1975, Zagreb 1976, Belgrade 1976; Officier de la Légion d'honneur; Médaille de la Résistance (with rosette), Commdr. des Arts et des Lettres, etc.; Grand Prix Société des Gens de Lettres 1952; Prix Italia 1955; Prix de la Radio de la Société des Auteurs Dramatiques 1976; Grand Prix Poncetton 1978. *Publications:* Novels: Le point du jour 1928, La vie de Philippe Denis (Madame Maillart 1930, Les amours et les haines 1952, Philippe 1955), Le prisonnier 1936, Le temps mort 1944, Suite policière (La double mort de Frédéric Belot 1932, Voiture 7 place 15 1937, L'abonné de la ligne U 1947, Le jet d'eau 1947, L'oeil-de-chat 1970), Pour l'amour de la nuit 1956, Le poids du feu 1959, Le bestiaire inattendu 1959, C'est vrai mais il ne faut pas le croire 1960, Hoffmann Canada 1977; Essays and Travel Books: La merveilleuse légende du Bouddha 1928, Routes de la Catalogne ou Le livre de l'amitié 1932, La promenade égyptienne 1934, Les devoirs de l'esprit 1945, Anatole France 1949, Et tout le reste n'est rien (La religieuse portugaise) 1951, Les mots de la fin 1957, Le code des jeux 1961, Avec toi-même et cœtera 1963, Les réflexions de Monsieur F.A.T. 1963, Célébration du lit 1967; Le haut mal des créateurs 1973; Play: L'as de coeur (ballet, music by Henri Sauguet) 1961, Brouart et le désordre 1964, La parade de la rengaine 1967; Poetry: Lo Hymen suivi de Chants funèbres 1925, Portrait de l'oiseau-qui-n'existe-pas 1965, De 1968, Monologue pour un disparu 1974. *Address:* Ty Guennic, 56780 Ile-aux-Moines, France.

AVEROFF-TOSSIZZA, Evangelos, LL.D., PH.D.; Greek economist, journalist and politician; b. 1910, Trikala, Thessaly; s. of Anastassios and Efthymia Averoff-Tossizza; m. Dina Lykiardopoulo; two d.; ed. Univ. of Lausanne; began career as journalist, worked in Switzerland and Greece; Gov. of Corfu 1941; active in resistance movement during 1941-44 war, imprisoned in Northern Italy, later escaped and continued resistance work until end of war; Lieut. 1944, assigned to Hellenic Mil. Mission, Rome; mem. of Parl. 1946-; fmr. Minister of Supply, National Economy and Commerce, and Under-Sec. for Foreign Affairs; Minister of Agriculture Feb.-May 1956, 1967 , of Foreign Affairs 1956-63; joined National Radical Union 1956; during 1967-74 dictatorship sentenced to five years' imprisonment Aug. 1967; imprisoned July 1973 for his part as political adviser in the Mutiny of the Navy; Minister of Nat. Defence July 1974-; Grand Cross, Order of the Phoenix (Greece), and decorations from other countries. *Publications:* include Non-Fiction: The Population Problem of Greece 1939 (Prize of the Acad. of Athens), Freedom or Death 1945, The Foreign Policy of Greece 1960; Fiction: The Cry of the Land 1964, The Land of Sorrow 1966, The Delphic Land 1968, When the Gods Used to Forget 1969, When the Gods Used to Bless 1971; Play: Return to Mycenae 1973. *Address:* Ministry of National Defence, Athens (Office); 33 Pentelis Street, Kifissia, Athens, Greece (Home).

AVIDOM (MAHLER-KALKSTEIN), Menahem, B.A.; Israeli composer; b. 6 Jan. 1908, Stanislau (fmrly. Austria, now U.S.S.R.); s. of Isaac Kalkstein and Helena Mahler; m. Suzanne Soumis-Lyonnais 1935; two d.; ed. American Univ., Beirut, and in Paris. Lecturer on theory of music, Hebrew Conservatoire of Music, Tel-Aviv 1936-, and Music Teachers' Training Coll. Tel-Aviv 1945-; Sec.-Gen. Israel Philharmonic Orchestra 1945-; Vice-Pres. Board of Dirs. Acum Ltd. (Composers and Authors Assen.), Dir.-Gen. 1956-; Dir. Arts Dept. Jerusalem Convention Centre 1952; Art Adviser, Govt. Tourist Centre, Ministry of Commerce and Industry 1954-; Pres. League of Composers 1958; mem. Nat. Arts Council 1962; Fellow Int. Inst. of Arts and Letters 1958; Israel State Prize 1961, Tel Aviv Municipality Prize 1948, 1956; Israel Philharmonic Prize 1953; Authors' and Composers' Assen. Prize 1962. *Compositions include:* A Folk Symphony 1947, Symphony No. 2 David 1948, Sinfonietta 1951, 2 Piano Sonatinas 1949, Concertino for violinist Jascha Heifetz, Concertino for cellist Gregor Piatigorsky 1951, Alexandra Hashmonaïth (opera in 3 acts) 1952, Jubilee Suite, Triptyque Symphonique, concerto for strings and flute, music for strings, symphonies 3, 4, 5 and 6, psalms and cantatas, 12 Preludes Variés for piano, Metamorphoses for string quartet 1960, Symphony No. 7 (25th anniversary of Israel Philharmonic Orchestra), Enigma, septet for 5 wood instruments, piano and percussion, Quartet for brass, Reflexions for 2 flutes, Triptyque for Solo violin, "B-A-C-H" Suite for Chamber Orchestra, Festival Sinfonietta (Symphony No. 8) 1966, The Crook (comic opera) 1966/67, Symphonie Variée (Symphony No. 9) for Chamber Orchestra 1968, Concertino for Violin and Chamber Orchestra 1968, The Farewell (Chamber Opera in one act) 1970, Spring, Overture for Symphony Orchestra 1972, 6 Inventions for Piano in Homage and on the Name of Arthur Rubinstein 1973, Passacaglia for Piano 1973, Piece on the Name of SCHoEnBerG for Piano 1974, The Emporor's New Clothes (comic opera in one act) for Israel Festival 1976, Twelve Hills (cantata) for Testimonium 1976, Five Psalms for Jerusalem Foundation 1976, Beyond (cantata for voice and three instruments), Yodfat's Cave (musical drama) 1977, Once Upon a Time (five short tales for piano) 1978. *Leisure interests:* painting, chess, music reviews. *Address:* ACUM House, Rothschild Boulevard 118, Tel-Aviv (Office); 30 Samadar Street, Ramat-Gan, Israel (Home). *Telephone:* 240105 (Office); 795512 (Home).

AVILA, Rev. Fernando Bastos de; Brazilian ecclesiastic and sociologist; b. 17 March 1918; ed. Univ. do Nova Friburgo (Brazil), Univ. de Louvain and Gregorian Univ., Rome. Prof. of Sociology, Pontificia Univ. Católica do Rio de Janeiro 1957-; Social Dir. Nat. Catholic Immigration Comm. 1954-; mem. Council, Nat. Fed. of Trade 1960-; Dir. Inst. Brasileiro de Desenvolvimento (IBRADES). *Publications:* Economic Impacts of Immigration 1956, L'immigration au Brésil 1957, Introdução a Sociologia 1962, Solidarismo 1965, Pequena Enciclopédia de Moral Ecivismo 1967. *Address:* 115 rua Bambina-Botatogo, Rio de Janeiro, RJ, Brazil.

AVINERI, Schlomo; Israeli professor of political science; b. 20 Aug. 1933, Bielsko, Poland; ed. Shalva Secondary School, Tel-Aviv, Hebrew Univ., Jerusalem, and London School of Econs. Prof. of Political Science, Hebrew Univ. Jerusalem 1971-, Dir. Eshkol Research Inst. 1971-74, Dean of Faculty of Social Sciences 1974-76; Dir.-Gen. Ministry of Foreign Affairs 1976-77; visiting appointments at Yale Univ. 1966-67, Wesleyan Univ., Middletown, Conn. 1971-72, Research School of Social Sciences, Australian Nat. Univ. 1972, Cornell Univ. 1973; British Council Scholarship 1961; Rubin Prize in the Social Sciences 1968; Naphtali Prize for study of Hegel 1977. *Publications:* The Social and Political Thought of Karl Marx 1968, Karl Marx on Colonialism and Modernization 1968, Israel

and the Palestinians 1971, Marx' Socialism 1972, Hegel's Theory of the Modern State 1973, Varieties of Marxism 1977. *Address:* Department of Political Science, The Hebrew University, Jerusalem (Office); 50 Harlap Street, Jerusalem, Israel (Home).

AVRIEL, Ehud; Israeli diplomatist; b. 19 Oct. 1917, Vienna, Austria; s. of Isidor and Helena Avriel; m. Hannah Marie (née Eliasberg) 1940; four d.; ed. High School, Vienna. Israeli Minister to Czechoslovakia 1948, concurrently to Hungary 1949; Minister to Rumania 1950; Dir.-Gen. Prime Minister's Office, Jerusalem 1951-57; Amb. to Ghana and Liberia 1957-61, to Congo (Léopoldville) 1960-61; Deputy Dir. Gen. Ministry of Foreign Affairs 1961-66; Amb. to Italy and Malta 1966-69; Chair. World Zionist Action Cttee., Jerusalem 1969-; Diplomatic Adviser and Amb. Extraordinary, Ministry of Foreign Affairs 1972; Consul-Gen. to the Midwest 1975-; Amb.-at-Large, Jerusalem; mem. Knesset 1975. *Publication:* Open The Gates 1975. *Leisure interest:* photography. *Address:* Kibbutz Neota, Mordechai, Israel.

AVTSIN, Aleksandr Pavlovich; Soviet pathologist; b. 18 Sept. 1908, Moscow; ed. First Moscow Medical Inst. Assoc., Inst. of Neuropsychiatric Prophylaxis 1933-38; Asst. Prof. Third Moscow Medical Inst. 1937-41; Asst. Prof. First Moscow Medical Inst. 1942-43; Army Surgeon 1943-46; Head of Dept., Inst. of Normal and Pathological Morphology, U.S.S.R. Acad. of Medical Sciences 1945-61; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1961-65, mem. U.S.S.R. Acad. of Medical Sciences 1965-; Dir. Inst. of Human Morphology, U.S.S.R. Acad. of Medical Sciences 1961-; Vice-Chair. Moscow Soc. of Pathologicoanatomists, Vice-Chair, U.S.S.R. Soc. of Pathalogicoanatomists; mem. Editorial Board Arkhiv patologii, Co-Editor Big Medical Encyclopaedia; Order of Lenin (twice), Order of Red Banner of Labour and Bulgarian Red Banner of Labour. *Publications:* Over 100 works on pathological anatomy of cerebral tumours, hormonotherapy of cerebral neoplasms, infectious diseases and military pathology. *Address:* Institute of Morphology, U.S.S.R. Academy of Medical Sciences, Block 18, 61/2 Ulitsa Shchepkina, Moscow, U.S.S.R.

AWAD, Muhammad Hadi; Yemeni diplomatist; b. 5 May 1934; m. Adelah Moh'd Hadi Awad 1956; one s. three d.; ed. Murray House Coll. of Educ. Teacher 1953-59; Educ. Officer 1960-62; Chief Insp. of Schools 1963-65; Vice-Principal As-Shaab Coll. 1965-67; Perm. Rep. to Arab League 1968-70, concurrently Amb. to U.A.R., also accred. to Sudan, Lebanon, Libya and Iraq; Perm. Sec. Ministry of Foreign Affairs 1970-73; Amb. to U.K. 1973-, concurrently to Spain and Sweden 1974-, to Denmark, Portugal, the Netherlands 1975-. *Leisure interest:* photography. *Address:* Embassy of the People's Democratic Republic of Yemen, 57 Cromwell Road, London, S.W.7, England. *Telephone:* 01-584 6607.

AWADALLAH, Babikir; Sudanese jurist and politician; b. 1917, El Citaina, Blue Nile Province; ed. School of Law, Gordon Coll., Khartoum. District Judge 1947-54; resigned to become Speaker of Sudanese House of Representatives 1954-57; Judge of the Supreme Court 1957-, Chief Justice 1964-69; Prime Minister and Minister of Foreign Affairs May-Oct. 1969; Deputy Chair Revolutionary Council, Minister of Foreign Affairs 1969-70, Minister of Justice 1969-71, Deputy Prime Minister 1970-71; First Vice-Pres. of Sudan Oct. 1971-May 1972. *Address:* c/o Sudanese Socialist Union, Khartoum, Sudan.

AWOLOWO, Chief Obafemi, LL.B.(LONDON), LL.D., D.SC., D.LITT.; (Ashiwaju of Ijebu Remo, Losi of Ikenne, Lisa of Ijeune, Apesin of Oshogbo, Odole of Ife, Ajagunla of Ado Ekiti, Odofin of Owo and Obong Ikpan Isong of Ibibioland); Nigerian politician; b. 6 March 1909, Ikenne; s. of David Sopolu and Mary Efunyela Awolowo; m. Hannah Idowu Dideolu 1937; two s. three d.; ed. London Univ. Teacher 1928-29; stenographer 1930-34; newspaper reporter 1934-35; engaged in motor transport and produce buying 1936-44; Solicitor and Advocate, Supreme Court of Nigeria 1947-51; Minister of Local Govt. and Leader of Govt. Business Western Region 1952-54; co-founder and first Gen. Sec. of Egbe Omo Oduduwa, a Yoruba cultural movement; founder and Fed. Pres. of Action Group of Nigeria; Premier, Govt. of the W. Region of Nigeria 1954-59; Leader of the Opposition in Federal Parliament 1960-May 1962, detained May-Nov. 1962, on trial for treasonable felony and conspiracy Nov. 1962-Sept. 1963; sentenced to 10 years' imprisonment Sept. 1963; given free pardon and released Aug. 1966; elected Leader of Yorubas Aug. 1966; Chancellor of Univ. of Ife, Nigeria 1967-; Vice-Chair. Federal Exec. Council and in charge of Ministry of Finance June 1967-June 1971; private practice 1971-. *Publications:* Path to Nigerian Freedom, Awo (autobiography), Thoughts on Nigerian Constitution, My Early Life, The People's Republic, The Strategy and Tactics of the People's Republic of Nigeria; various pamphlets. *Address:* c/o P.O. Box 136, Ibadan, Nigeria. *Telephone:* Ibadan 22705.

AWOONOR, Kofi Nyidevu, PH.D.; Ghanaian professor of comparative literature; b. 13 March 1935; ed. Univ. of Ghana, Univ. Coll., London, and State Univ. of N.Y. Research Fellow, Inst. of African Studies; Man. Dir. Film Corpn., Accra; Longmans Fellow, Univ. of London; Asst. Prof. and later Chair. Comparative Literature Program, State Univ. of N.Y., Stony Brook; Visting Prof., Univ. of Texas, Austin and New School of Social Research, N.Y.; fmrly. Prof. of Comparative Literature, State Univ. of N.Y., Stony Brook; detained in Ghana for allegedly harbouring leader of coup 1975; on trial 1976, sentenced to one year's imprisonment Oct. 1976, pardoned Oct. 1976; Contributing Editor, Transition and Alcheringa; Gurrey Prize for Poetry; Longmans and Fairfield fellowships. *Publications:* poetry: Rediscovery 1964, Messages 1970, Night of My Blood 1971; prose: This Earth My Brother 1971, Guardians of the Sacred Word 1973, Ride Me Memory 1973, Breast of the Earth 1974 (history of African literature), Traditional African Literature (Series, Ed.), Alien Corn (novel) 1974, Where is the Mississippi Panorama 1974. *Address:* c/o University of Cape Coast, Cape Coast, Ghana.

AXELROD, Julius, PH.D.; American biochemical pharmacologist; b. 30 May 1912, New York; s. of Isadore and Molly (Leichtling) Axelrod; m. Sally Taub Axelrod 1938; two s.; ed. Coll. of the City of New York, New York Univ. and George Washington Univ. Lab. Asst., Dept. of Bacteriology, New York Univ. Medical School 1933-35; Chemist, Laboratory of Industrial Hygiene 1935-46; Research Assoc., Third New York Univ. Research Div., Goldwater Memorial Hosp. 1946-49; Assoc. Chemist, Nat. Heart Inst., Nat. Inst. of Health 1949-50, Chemist 1950-53, Senior Chemist 1953-55; Chief, Section on Pharmacology, Lab. of Chemical Science, Nat. Inst. of Mental Health, Health Services and Mental Health Admin., Dept. of Health, Educ. and Welfare 1955–; mem. Scientific Advisory Board, Nat. Foundation, Brookhaven Nat. Lab., Center for Biomedical Educ., and many others; mem. Int. Brain Research Organization; Fellow, American Coll. of Neuropsychopharmacology (mem. Council 1966-69); mem. A.C.S., American Soc. of Pharmacology and Experimental Therapeutics, American Soc. of Biological Chemists, A.A.A.S.; Fellow, American Acad. of Arts and Sciences, N.A.S.; corresp. mem. German Pharmacological Soc.; Hon. Sc.D. (Univ. of Chicago, Medical Coll. of Wisconsin, New York Univ, Medical Coll. of Pennsylvania); Hon. LL.D. (George Washington Univ.); Dr. h.c. (Univ. of Panama); Hon. LL.D. (Coll. of the City of New York), etc.; Gairdner Foundation Award 1967; Distinguished Achievement Award, George Washington Univ. 1968, Dept. of Health, Educ. and Welfare 1970, Modern Medicine Magazine 1970; Claude Bernard Medal, Univ. of Montreal 1969, Nobel Prize for Medicine or Physiology 1970, Albert Einstein Achievement Award, Yeshiva Univ. 1971, Torald Sollmann Award in Pharmacology 1973, Paul Hoch Award, American Psychopathological Assn. 1975, etc.; several research awards, memorial lectureships etc. *Publications:* 450 articles in professional journals, also abstracts and press articles. *Leisure interests:* music, reading. *Address:* Section on Pharmacology, Laboratory of Clinical Science, National Institute of Mental Health, Building 10, Room 2D-47, 9000 Rockville Pike Bethesda, Md. 20014 (Office); 10401 Grosvenor Place, Rockville, Md. 20852, U.S.A. (Home).

AXEN, Hermann; German party official; b. 6 March 1916, Leipzig; mem. Communist Youth League 1932; emigrated to France 1938-40; imprisoned in concentration camps 1940-45; mem. Cen. Cttee. Socialist Unity Party (SED) 1950, Sec. 1966-; Chief Editor Neues Deutschland 1956-66; Candidate mem. of Politburo of Cen. Cttee. of Socialist Unity Party 1963-70, mem. 1970-; mem. Volkskammer 1954-; decorations include Silver and Gold Medal Vaterländischer Verdienstorden, Banner der Arbeit. *Address:* Sozialistische Einheitspartei Deutschlands, 102 Berlin, Am Marx-Engels-Platz 2, German Democratic Republic.

AXER, Erwin; Polish theatre producer and director; b. 1 Jan. 1917, Vienna, Austria; s. of Dr. Maurycy Axer and Fryderyka Schuster; m. Bronisława Kreczmar 1945 (died 1973); two s.; ed. Lwów, and Nat. Acad. of Theatrical Art, Warsaw. Asst. Producer, Nat. Theatre, Warsaw 1938-39; Actor-Producer, Polish Drama Theatre, U.S.S.R. 1939-41; Artistic Dir., Teatr Kameralny, Łódź 1946-49; Dir. and producer Teatr Współczesny (Contemporary Theatre) Warsaw 1949-; Dir. and Chief Producer, Nat. Theatre, Warsaw 1955-57; Extraordinary (Asst.) Prof., Producers' Dept., State Higher Theatrical School, Warsaw 1957-66, Prof. Ordinary 1966-; State Prizes for Artistic Achievement 1951, 1953, 1955, 1962, Nagroda Krytyki im Boya-Zelenskiego (Critics Award) 1960; Commdr. Cross of Polonia Restituta; Order of Banner of Labour (2nd Class); other awards and prizes. *Productions include:* Major Barbara (Shaw) 1947, Niemcy (Kruczkowski) 1955, Kordian (Slowacki) 1956, Pierwszy dzień wolności 1959, Iphigenia in Tauris

1961, Kariera Arturo Ui (Brecht) Warsaw 1962, Leningrad 1963, Three Sisters (Chekhov) 1963, Düsseldorf 1967, Androcles and the Lion (Shaw), Warsaw 1964, Tango (Mrożek), Warsaw 1965, Düsseldorf 1966, Die Ermittlung (Weiss), Warsaw 1966, Le Piéton de l'Air (Ionesco), Warsaw 1967, Maria Stuart (Schiller), Warsaw 1969, Dwa Teatry (Szaniawski), Leningrad 1969, Matka (Witkiewicz) Warsaw 1970, Porträt eines Planeten, Düsseldorf 1970, Old Times and Macbeth, Warsaw 1972, Uncle Vanya, Munich 1972, Ein Fest für Boris, Vienna (Kainz Award) 1973, King Lear, Warsaw, 1974, Endgame (Beckett), Vienna 1976, Kordian Warsaw 1977, Seagull (Chekhov), Vienna 1977, Biedermann and Incendiaries (Max Frisch), Zurich 1978, Krawiec (Tailor by Mrożek), Lodz 1978, Warsaw 1979, Wesele (Wyspiański) Leningrad 1978, Our Town (Wilder), Leningrad 1979. *Publications include:* Listy ze sceny I (Letters from the Stage) 1955, Listy ze sceny II 1957, Sprawy Teatralne (Things Theatrical) 1966, essays, serial, articles on theatre. *Address:* Ul. Odyńca 27 m. II, 02-606 Warsaw, Poland. *Telephone:* 44-01-16.

AYARI, Chedli, L.EN D., D.ÈS SC.(ECON.); Tunisian economist, diplomatist and politician; b. 24 Aug. 1933, Tunis; s. of Sadok and Fatouma Chedly; m. Elaine Vatteau 1959; one s. one d.; ed. Collège Sadiki and Inst. de Hautes Etudes; with Société Tunisienne de Banque 1958; Asst. Faculté de Droit et des Sciences Economiques et Politiques, Tunis 1959; Econ. Counsellor, Perm. Mission of Tunis at UN 1960-64; Exec. Dir. IBRD 1964-65; Dean, Faculté de Droit, Tunis 1965-67; Dir. C.E.R.E.S. 1967-69; Sec. of State in charge of Plan 1969-70; Minister of Nat. Educ., Youth and Sport 1970-71; Amb. to Belgium Feb.-March 1972; Minister of Nat. Economy 1972-74, of Planning 1974-75; Chair. of Board and Gen. Man. Arab Bank for Econ. Devt. in Africa March 1975-; Prof. of Economics, Agrégé de Sciences Economiques, Tunis; mem. UN Cttee. of Planning for Devt.; Grand Cordon, Ordre de la République. *Publications:* numerous books and articles on economic and monetary problems. *Address:* Arab Bank for Economic Development in Africa, Baladia Road, P.O. Box 2640, Khartoum, Sudan (Office); Gammarth, La Mousa, Tunis, Tunisia (Home). *Telephone:* 270-038 (Home).

AYCKBOURN, Alan; British playwright and theatre director; b. 12 April 1939, London; s. of Horace Ayckbourn and Irene Maud (née Worley); m. Christine Helen (née Roland) 1959; two s.; ed. Haileybury; went straight into the theatre on leaving school ■ stage manager and actor with various repertory cos. in England; founder mem. Victoria Theatre Co., Stoke-on-Trent 1962-64; Drama Producer, BBC Radio 1964-70; Dir. of Productions, Stephen Joseph Theatre in the Round, Scarborough 1971-; Assoc. Dir. Bedroom Farce, Nat. Theatre 1977; Evening Standard Award for Best New Comedy for Absurd Person Singular 1973, for Best New Play for The Norman Conquests 1974, for Best New Play for Just Between Ourselves 1977; Plays and Players Award for Best New Play for The Norman Conquests 1974; Variety Club of Great Britain Playwright of the Year 1974. *Plays:* Relatively Speaking 1967, How the Other Half Loves 1970, Time and Time Again 1972, Absurd Person Singular 1973 (New York 1974), The Norman Conquests 1974 (New York 1975), Jeeves (book and lyrics for Andrew Lloyd Webber musical) 1975, Absent Friends 1975, Confusions 1976, Bedroom Farce 1977, Just Between Ourselves 1977, Ten Times Table 1978, Men on Women on Men (revue with music by Paul Todd) 1978, Joking Apart 1979, Sisterly Feelings 1979. *Publications:* The Norman Conquests 1975, Three Plays 1977, Joking Apart and other plays 1979. *Leisure interests:* music, cricket, astronomy. *Address:* c/o Margaret Ramsay Ltd., 14A Goodwin's Court, St. Martin's Lane, London WC2N 4LL, England. *Telephone:* 01-240 0691.

AYDALOT, Maurice, D. EN D.; French judge; b. 22 June 1905; s. of Joseph Aydalot; ed. Faculté de Droit de Paris. Magistrate, Ministry of Justice 1930; Deputy Public Prosecutor, Paris 1937, Public Prosecutor 1951, Prosecutor-Gen., Court of Appeal, Paris 1957-62; Prosecutor-Gen., Court of Cassation 1962-67; First Pres. Court of Cassation 1967-75; Counsellor, Court of Appeal, Paris 1976-; Grand Croix, Légion d'honneur. *Publications:* Les atteintes au crédit de l'etat, L'éxpertise comptable judiciaire, Droit pénal des affaires, Le Magistrat. *Address:* 165 avenue de Wagram, 75017 Paris, France (Home).

AYER, Sir Alfred Jules, Kt., M.A., F.B.A.; British university professor; b. 29 Oct. 1910, London; s. of late Jules L.C. and Reine (née Citroen) Ayer; m. 1st Grace I. R. Lees 1932, one s. one d.; m. 2nd Alberta C. Chapman 1960, one s.; ed. Eton Coll. and Christ Church, Oxford. Lecturer in Philosophy, Christ Church, Oxford 1932-35, Research Student of Christ Church 1935-44; Fellow of Wadham Coll. Oxford 1944-46, Dean of Wadham 1945-46; Grote Prof. of the Philosophy of Mind and Logic, Univ. of London 1946-59; Wykeham Prof. of Logic, Oxford 1959-78; served in Welsh Guards and on Intelligence Duties during Second World War; Attaché British Embassy, Paris 1945; Fellow of New Coll., Oxford; Hon. Fellow of Wadham Coll., Oxford 1957-; Hon. mem. American Acad. of Arts and Sciences 1963; Foreign mem. Royal Danish Acad. of Sciences and Letters 1976; Dr. h. c. (Univ. of Brussels) 1962, Hon. D. Litt. (Univ. of East Anglia). *Publications:* Language, Truth and Logic 1936, The Foundations of Empirical Knowledge 1940, Thinking and Meaning 1947, British Empirical Philosophers (editor, with Raymond Winch) 1952, Philosophical Essays 1954, The Problem of Knowledge 1956, Privacy 1960, Philosophy and Language 1960, Logical Positivism (Editor) 1960, Concept of a Person and Other Essays 1963, The Origins of Pragmatism 1968, Metaphysics and Common Sense 1969, Russell and Moore: The Analytical Heritage 1971, Probability and Evidence 1972, Russell 1972, Bertrand Russell as a Philosopher 1972, The Central Questions of Philosophy 1973, Part of My Life 1977. *Address:* New College, Oxford, OX1 3BN (Office); 10 Regents Park Terrace, London, NW1E 7EE, England (Home). *Telephone:* Oxford 48451; 01-485 4855 (London).

AYERS, Thomas G.; American business executive; b. 16 Feb. 1915, Detroit, Mich.; m. Mary Ayers; four s. one d.; ed. Univ. of Mich.; joined Public Service Co. of Northern Illinois (fmrly. a div. of Commonwealth Edison) 1938, Man. of Industrial Relations 1948; Assist. Vice-Pres. of Industrial Relations, Commonwealth Edison Co. 1952, Vice-Pres. 1953, Exec. Vice-Pres. 1962-64, Pres. 1964-73, Dir. 1965-, Chair., Chief Exec. Officer 1973-, Pres. 1973-77; Dir. First Nat. Bank of Chicago, G. D. Searle and Co., Sears, Roebuck and Co., Zenith Radio Corpn.; Dir. and fmr. Pres. Chicago Assn. of Commerce and Industry; Chair. Breeder Reactor Corpn.; Exec. Nat. Electric Reliability Council; Dir. Edison Electric Inst.; Trustee, North-western Univ.; Hon. LL.D. (Elmhurst Coll.). *Address:* Commonwealth Edison Company, P.O. Box 767, Chicago, Ill. 60690, U.S.A.

AYLESTONE, Baron (Life Peer), cr. 1967, of Aylestone in the City of Leicester; **Herbert William Bowden,** P.C., C.H., C.B.E.; British politician and television executive; b. 20 Jan. 1905; m. Louisa G. Brown 1928; one d. Pres. Leicester Labour Party 1938; M.P. 1945-67; Parl. Private Sec. to Postmaster-Gen. and Minister of Pensions 1946-47; Asst. Govt. Whip 1947-50, Deputy Opposition Whip 1950-55, Chief Opposition Whip 1955-64; Lord Pres. of the Council 1964-66; Leader House of Commons 1964-66; Sec. of State for Commonwealth Affairs 1966-67; Chair. Independent Broadcasting Authority (IBA) 1967-75. *Address:* House of Lords, London, SW1A 0AA, England.

AYLMER, Sir Felix, Kt. (pseudonym of Sir Felix Aylmer Jones), O.B.E., B.A.; British actor; b. 21 Feb. 1889, Corsham, Wilts.; s. of Lieut.-Col. Edward Aylmer Jones, R.E.; m. Cecily Byrne 1915 (died 1975); two s. (deceased) one d.; ed. Magdalen Coll. School and Exeter Coll., Oxford; first stage appearance at the Coliseum with Seymour Hicks 1911; Birmingham Repertory Theatre 1913; served in R.N.V.R. First World War 1914-18; Pres. British Actors' Equity Assn. 1949-69; principal stage appearances in London: R.E.Lee 1923, The Terror 1927, The Nelson Touch 1931, The Voysey Inheritance, St. Jona, Bird in Hand 1934, Heroes Don't Care, Waste 1936, Yes and No 1937, The Flashing Stream 1938, Scandal at Barchester 1944, Daphne Laureola 1949, First Person Singular 1952, Spider's Web 1954-56, The Chalk Garden 1956; appeared on New York stage 1922, 1925, 1939 and 1953-54; principal films: Tudor Rose, Victoria the Great, The Demi-Paradise, Henry V, Mr. Emmanuel, The Ghosts of Berkeley Square, Hamlet, Prince of Foxes, Quo Vadis, Ivanhoe, Knights of the Round Table, St. Joan, Captain Dreyfus, Separate Tables, The Doctor's Dilemma, Never Take Sweets from a Stranger, From the Terrace, Exodus, The Boys, Becket, The Chalk Garden. *Publications:* Dickens Incognito 1959, The Drood Case 1964.

AYMOND, Alphonse Henry, A.B., J.D.; American lawyer and public utilities official; b. 27 Sept. 1914, St. Louis, Mo.; s. of Alphonse H. Aymond and Anne Putz Aymond; m. Elizabeth Shierson 1939; three s.; ed. Northwestern Univ. and Univ. of Michigan; admitted to Ill. Bar 1939, Mich. Bar 1947; with Miller, Gorham, Wescott and Adams, Chicago 1939-44; Commonwealth and Southern Corpn., New York, N.Y. 1946-47; Attorney, Consumers Power Co., Jackson, Mich. 1946-51, Gen. Attorney 1951-55, Vice-Pres. and Gen. Counsel 1955-57, Exec. Vice-Pres. and Dir. 1957-60, Chair. of Board and Dir. 1960-, Pres. 1972-75; Dir. Mich. Gas Storage Co., City Bank and Trust Co., Nat. Bank of Detroit, American Seating Co., Kellogg Co., Nat. Detroit Corpn., Mart Corpn.; Trustee, W. K. Kellogg Foundation, Northwestern Mutual Life Insurance Co., Northwestern Mutual Life Mortgage and Realty Investors. *Leisure*

interests: golf, gardening, bridge. *Address:* Consumers Power Co., 212 W. Michigan Avenue, Jackson, Mich., U.S.A. *Telephone:* 517-788-0600.

AYOUNÉ, Jean-Rémy; Gabonese administrator and politican; b. 5 June 1914, Assewé, Fernan-Vaz; ed. Catholic mission and seminaries in Libreville; worked in French Equatorial African Admin., Libreville 1934-37; head of Audit Bureau, Dept. of Finance, Cabinet of the Gov.-Gen., Brazzaville 1937-46; Editor, Press and Information Service, Cabinet of the Gov.-Gen. 1946-52; Sec. of Inspection Dept., Acad. of Libreville 1953-56; mem. Del. of A.E.F. to Paris 1956-57; head, Press and Information Bureau, Cabinet of High Commr. to Congo (Brazzaville) 1957-59; trainee, Quai d'Orsay and E.N.A. Jan.-April 1960; Second Counsellor, French Embassy in German Fed. Repub. 1960-61; first Amb. of Gabon to German Fed. Repub. 1961-1963; Sec.-Gen. of Govt. 1964-66; Minister of Civil Service and Technical Admin. Co-operation 1966-68; Minister of Foreign Affairs 1968-70; Minister of Foreign Affairs and Co-operation 1970-71; Minister of Justice and Keeper of the Seals 1971-72; First Pres. Gabonese Chamber of Commerce 1972. *Address:* c/o Chambre de Commerce, d'Agriculture et d'Industrie et des Mines du Gabon, B.P. 110, Libreville, Gabon.

AYYOUBI, Mahmoud Ben Saleh al-; Syrian politician; b. 1932; fmr. Dir.-Gen. for Admin. Affairs, Euphrates Dept.; Minister of Educ. 1969-71; Deputy Premier Nov.1970-April 1971; Vice-Pres. 1971-75; Prime Minister 1972-76. *Address:* c/o Office of the Prime Minister, Damascus, Syria.

AZEREDO DA SILVEIRA, Antônio Francisco; Brazilian diplomatist; b. 22 Sept. 1917, Rio de Janeiro; s. of Flavio and Lea Maria Azeredo da Silveira; m. May Paranhos Azeredo da Silveira 1943; four s.; ed. Instituto Rio-Branco; joined foreign service 1945, served in Havana, Buenos Aires, Florence, Madrid and Rome, Consul-Gen. Paris 1961-63; Perm. Rep. to Office of UN at Geneva 1966-68; Amb. to Argentina 1968-74; Minister of Foreign Relations March 1974-; del. to several confs. of OAS, GATT and UNCTAD, etc.; decorations from Fed. Repub. of Germany, Italy, Ecuador, Peru, Chile, Netherlands, Austria, Spain and Malta. *Address:* Ministério dos Assuntos Exteriores, Palácio do Itamoraty, Esplanada dos Ministérios, Brasília, D.F. (Office); Avenida Vieira Souto, 408-apto, 401, Rio de Janeiro, RJ, Brazil (Home).

AZEVEDO, Carlos de, M.A.; Portuguese museum administrator; b. 1918, Lisbon; s. of António Martins de Azevedo and Delfina M. de Azevedo; m. Maria Teresa Falcão 1940; three s.; ed. Lisbon Univ. Lecturer in Portuguese, Oxford Univ. 1945-47; Visiting Lecturer in Art History, Miami Univ., Ohio 1945-; at Lisbon Museum of Ancient Art 1948-50; carried out official survey of Portuguese monuments in India 1951; Curator, Lisbon Museum of Contemporary Art 1955-60; Exec. Sec. Fulbright Comm. in Portugal 1960-73; Head Div. of Foreign Cultural Relations, Ministry of Educ. 1973-74, Dir. Internal Cultural Relations 1974-; rep. of The Connoisseur in Portugal 1954-76; Sec. Portuguese Cttee. Int. Council of Museums (ICOM) 1967-74; Fellow, Royal Soc. of Arts (London); Corresp. mem. Lisbon Nat. Acad. of Fine Arts. *Publications:* Portuguese Country Houses, two books on Portuguese colonial architecture, one on old Portuguese organ-cases, various studies and articles. *Leisure interests:* old organs, playing the harpsichord. *Address:* Rua Custódio Vieira, 2-3°-Dt°., Lisbon, Portugal. *Telephone:* 68-34-25.

AZGUR, Zair Isaakovich; Soviet monumental and portrait sculptor; b. 15 Jan. 1908, Molchany Village, Vitebsk Region, Byelorussia; ed. Leningrad Acad. of Arts and Kiev Arts Inst.; known for his busts of revolutionary figures (F. Dzerzhinsky, Gracchus Babouef) 1931-33, of figures of the Second World War and leading Soviet statesmen, workers, artists and scientists; mem. CPSU 1943-; mem. Acad. of Arts of the U.S.S.R.; State prize-winner 1946, 1948, 1973; People's Artist of the Byelorussian S.S.R.; Gold Medal, Exhbn. to celebrate 40th anniversary of the Soviet Revolution; Brussels Int. Exhbn. 1958; Order of Lenin, Red Banner of Labour (two), Red Star; People's Artist of the U.S.S.R.; Order of the October Revolution. *Address:* Byelorussian S.S.R. Union of Artists, Minsk, U.S.S.R.

AZIKIWE, Rt. Hon. Nnamdi, P.C., M.A., M.SC., LL.D., D.LITT.; Nigerian politician; b. 16 Nov. 1904, Zungeru; s. of Obed Edom Chukwuemeka and Rachel Ogbenyeanu Azikiwe; three s. one d.; ed. Lincoln and Pennsylvania Univs.; fmr. Instructor in History and Political Science Lincoln Univ., Pa.; fmr. Gov. Dir. African Continental Bank Ltd.; Chair. Associated Newspapers of Nigeria Ltd., African Book Co. Ltd.; Pres. Nat. Council of Nigeria and the Cameroons; Vice-Pres. Nigerian Nat. Democratic Party; elected mem. of Legislative Council of Nigeria 1947-51; mem. Brooke Arbitration Tribunal 1944, Nigerianisation Comm. 1948, MacDonald Arbitration Tribunal 1948; mem. Western House of Assembly 1952-53, Eastern House 1954-59; fmr. Minister of Local Govt., Eastern Region, and Minister of Internal Affairs 1955-57; Premier, Eastern Nigeria 1954-59; Pres. Fed. Senate 1960; Gov.-Gen. and C.-in-C. Fed. of Nigeria 1960-63, President of Nigeria 1963-66; Fellow, Inst. of Journalists 1961-; Chancellor and Chair. Council of the Univ. of Nigeria 1961-66; Joint Pres. Anti-Slavery Soc. for Human Rights 1970-; Chancellor, Univ. of Lagos 1972-76. *Publications:* Liberia in World Politics 1934, Renascent Africa 1937, The African in Ancient and Medieval History 1938, Land Tenure in Northern Nigeria 1942, Political Blueprint of Nigeria 1943, Economic Reconstruction of Nigeria 1943, Economic Rehabilitation of Eastern Nigeria 1955, Zik: a Selection of Speeches 1961, Military Revolution in Nigeria 1972, Meditations: A Collection of Poems 1965, Dialogue on a New Capital for Nigeria 1974. *Leisure interests:* walking, swimming, research in my private library. *Address:* Onuiyi Haven, P.O. Box 7, Nsukka, Nigeria.

AZIMI, Gen. Reza; Iranian army officer and politician; b. 1913; ed. Mil. Acad., Teheran; joined Imperial Army 1929; Commdr. Armoured Corps, Chief of Army Staff Dept., Commdr. Central Army No. 1, Deputy Commdr. Ground Forces, Commdr. Western Army, Officer Commdg. Ground Forces 1960-66, fmr. Adjutant-Gen. to Shahanshah; Minister of War 1971-78; various army decorations.

AZIMOV, Pigam Azimovich; Soviet specialist in Turkmenian language and literature; b. 1915; ed. Ashkhabad Pedagogic Inst.; mem. CPSU 1939-; at Ashkhabad Pedagogic Inst. 1948-50; at Turkmenian State Univ. 1950-63; mem. Turkmenian Acad. of Sciences 1951-; Pres. 1966-; Merited Scientific Worker of Turkmenian S.S.R. 1961; several U.S.S.R. decorations. *Publications:* Problems of Bi- and Pluri-lingualism 1972. *Address:* Turkmenian S.S.R. Academy of Sciences, 15 Ulitsa Gogolya, Ashkhabad, U.S.S.R.

AZIMOV, Sarvar Alimadjanovich, DR.PHIL.SC. ; Soviet philologist and diplomatist; b. 20 May 1923, Djizak Village, Uzbekistan; ed. Middle Asian State Univ. First Sec. Board of Uzbek Writers' Union 1956-57; Minister of Culture, Uzbek S.S.R. 1957-59; Deputy Chair. Council of Ministers, and Minister of Foreign Affairs, Uzbek S.S.R. 1959-69; Amb. to Lebanon 1969-. *Publications:* Many works on Middle Asian and Near Eastern Literature problems. *Address:* Embassy of U.S.S.R., Beirut, Lebanon.

AZIZ, Ungku Abdul; Malaysian professor and university administrator; b. 28 Jan. 1922, London, U.K.; m. Sharifah Azah Aziz; one d.; ed. Raffles Coll. and Univ. of Malaya in Singapore, Waseda Univ., Tokyo, Univ. of Pittsburgh. Johore State Civil Service; Lecturer in Econs., Univ. of Malaya in Singapore till 1952; Head, Dept. of Econs., Univ. of Malaya, Kuala Lumpur 1952-61, Dean of Faculty 1961-65, Vice-Chancellor 1968-, Royal Prof. of Econs. 1978–; Pres. Nat. Co-operative Movement (ANGKASA) 1971, Assen. of S.E. Asian Institutions of Higher Learning (ASAIHL) 1973-75; Chair. Assen. of Commonwealth Univs. 1974-75, Malaysian Nat. Council for ASAIHL, Malaysian Nat. Assen. for UNESCO; mem. UN Cttee. for Devt. Planning 1978-80; Corresp. mem. of Advisory Board, Modern Asian Studies 1973-75; mem. Econ. Assen. of Malaysia, Int. Assen. of Agricultural Economists, Joint Advisory Cttee. of FAO, UNESCO and ILO; mem. Nat. Consultative Council and Nat. Unity Advisory Council, Govt. of Malaysia; Fellow, World Acad. of Arts and Sciences 1965-; Tun Abdul Razak Foundation Award 1978; Ordre des Arts et des Lettres (France) 1965. *Leisure interests:* jogging, reading and photography. *address:* Office of the Vice Chancellor, University of Malaya, Kuala Lumpur 22-11 Malaysia. *Telephone:* Kuala Lumpur 54400.

AZKOUL, Karim, PH.D.; Lebanese diplomatist and writer; b. 15 July 1915, Rachaya; s. of Najeeb Azkoul and Latifah Assaly; m. Eva Corey 1947; one s. one d.; ed. Jesuit Univ. of St. Joseph, Beirut, and Univs. of Paris, Berlin, Bonn and Munich. Prof. of History, Arab and French Literature, and Philosophy in various colls. in Lebanon 1939-46; Dir. of an Arabic publishing house and monthly Arabic review The Arab World, Beirut 1943-45; mem. Lebanese Del. to UN 1947-50, Acting Perm. Del. to UN 1950-53; Head of UN Affairs Dept., Ministry of Foreign Affairs 1953-57; Head, Perm. Del. to UN 1957-59; Consul-Gen. in Australia and New Zealand 1959-61; Amb. to Ghana, Guinea and Mali 1961-64, to Iran and Afghanistan 1964-66; Journalist 1966-68; Prof. of Philosophy, Beirut Coll. for Women 1968-72, Lebanese Univ. 1970-72; mem. PEN, Emergency World Council, Hague 1971-; mem. Board of Trustees, Board of Management of Theological School of Balamand, Lebanon; Order of Cedar (Lebanon), Order of Holy Sepulchre (Jerusalem), Order of St. Marc (Alexandria), Order of the Brilliant Star (Republic of China), Order of Southern Star (Brazil), Order of St. Peter and Paul (Damascus). *Publications:* Reason and Faith in

Islam (in German) 1938, Reason in Islam (in Arabic) 1946, Freedom (co-author) 1956, Freedom of Association (UN) 1968; trans. into Arabic Consciencism (Nkrumah) 1964; Arab Thought in the Liberal Age (Albert Hourani) 1969. *Leisure interests:* reading and writing. *Address:* Union Building, Spaers Street, Alsanayeh, Beirut, Lebanon. *Telephone:* 233390 (Office); 233250 (Home).

AZNAVOUR, Charles (pseudonym for Varenagh Aznavourian); French singer and film star; b. 22 May 1924; ed. École centrale de T.S.F., Centre de spectacle, Paris. With Jean Dasté Company 1941; with Pierre Roche in Les fâcheux and Arlequin 1944; numerous song recitals in Europe and U.S.A.; actor in numerous films including: La tête contre les murs 1959, Tirez sur le pianiste 1960, Un taxi pour Tobrouk, Le testament d'Orphée, Le diable et les dix commandements, Haute-infidélité 1964, La métamorphose des cloportes 1965, Paris au mois d'août 1966, Le facteur s'en va-t-en guerre 1966, Le diable par le queue 1968, Candy 1969, Les intrus 1973. Film music includes: Soupe au lait, L'île du bout du monde, Ces dames préfèrent le mambo, Le cercle vicieux, De quoi tu te mêles Daniela, Douce violence, Les Parisiennes; also author and singer of numerous songs; composer of operetta Monsieur Carnaval 1965. *Address:* 4 avenue du Lieutel, 78 Galluis, France.

B

BA, Babacar; Senegalese politician; b. 14 June 1930; ed. Univ. of Dakar. Gov. Oriental Province 1960-61; Principal Private Sec. to the Presidency 1961-62, 1968-70; District Commr. 1963-66; Principal Private Sec. to Minister of Foreign Affairs 1968; Sec.-Gen. at the Presidency 1970; Minister of State of Finance and Econ. Affairs 1971-78, of Foreign Affairs March-Sept. 1978; Sec. for Int. Relations Feb.-Sept. 1978; fmr. Pres. Banque Centrale des Etats de l'Afrique de l'Ouest. *Address:* c/o Ministère d'Etat des Affaires Etrangères, Dakar, Senegal.

BAAH, Maj. Kwame R.M.; Ghanaian army officer; b. 21 May 1938, Dormaa Ahenkro, Brong-Ahafo Region; ed. Royal Officers' Specialist Training School, Accra, Mil. Acad., Dehra Dun, India; commissioned Regular Infantry Officer, Ghana Army 1962; held various posts including Instructor, Ghana Mil. Acad. and Training School, Acting Commdg. Officer, 5th Infantry Battalion, Staff Officer to Defence Adviser, Ghana High Comm., London, Asst. Defence, Armed Forces Attaché, Ghana Embassy to U.S.A.; Commr. for Lands, Mineral Resources Jan.-Nov. 1972, for Foreign Affairs 1972-75, of Econ. Planning Oct. 1975 (resigned); mem. Nat. Redemption Council 1972-75. *Address:* Office of the National Redemption Council, P.O. Box 1627, Accra, Ghana.

BABA, Corneliu; Romanian artist; b. 18 Nov. 1906, Craiova; ed. Bucharest Univ. and Inst. of Fine Arts, Iaşi. Prof. Inst. of Fine Arts, Iaşi, and N. Grigorescu Inst. of Fine Arts, Bucharest; First exhbn. 1941; numerous official exhbns. in Romania, Moscow, Venice, Vienna, Prague, Warsaw, Rome, Sofia, etc. 1944-; one-man exhbns. Brussels 1964, Berlin 1964, New York 1970; Vice-Pres. Romanian Nat. Peace Cttee.; Hon. mem. U.S.S.R. Acad. of Art 1958-; Corresp. mem. Acad. Socialist Republic of Romanian 1963-; mem. Acad. of Arts, Berlin 1964-; People's Artist 1962. *Major works:* Odihna la Cîmp (Resting in the Fields) 1954, Tăranii (Peasants) 1958, Oţelari (Steelworkers) 1960, portraits of M. Sadoveanu, Lucia Sturdza Bulandra, Tudor Arghezi, and book illustrations. *Address:* Uniunea Artiştilor Plastici, Str. Nicolae Iorga 42, Bucharest, Romania. *Telephone:* 50.47.86.

BABANOVA, Mariya Ivanovna; Soviet actress; b. 11 Nov. 1900, Moscow; started work at V.E. Meyerhold Theatre 1920; later moved to Mayakovsky Theatre 1920; People's Artist of the Soviet Union; State prize; most important parts Polina (Profitable Post—A. N. Ostrovsky), Goga (A Man with a Portmanteau—A. M. Faiko), Juliet (Romeo and Juliet), Countess Diana (A Dog in the Loft—Lope de Vega), Tanya (Tanya—A. N. Arbuzov), Sofia (Zykovy—M. Gorky), Ranevskaya (The Cherry Orchard—Chekhov), Maggy (What Every Woman Knows—Barrie), Kay (A Woman's Life—K. Morimoto), Mary (Mary October—Duvilie), Ophelia (Hamlet), Elizabeth (The Circle—Maugham), Mariya Alexandrovna (Uncle's Dream—Dostoevsky), Lidya (Old Fashioned Comedy—A. N. Arbuzov). *Address:* Moscow Mayakovsky Theatre, 19 Ulita Herzena, Moscow, U.S.S.R.

BABAYEVSKY, Semyon Petrovich; Soviet writer; b. 6 June 1909, Kunye village, Kharkov Region, Ukraine; m. 1929; two s.; ed. Moscow Literary Inst.; mem. CPSU 1939-; war corresp. 1941-45; Deputy to Supreme Soviet of U.S.S.R. 1950-58; mem. Board U.S.S.R. Union of Writers'; State Prizewinner 1948, 1949, 1950; Order of Red Banner of Labour 1959, 1969. *Publications:* Novels: Cavalier of the Golden Star, Geese Island 1947, Light over the Earth 1949, Well-Spring Grove 1956, White Mosque, Sukhaya Buivola 1958, Along Paths and Roads 1958, Son's Mutiny 1961, Native Land, The Whole World, Native Country 1969, Selected Works (2 vols.) 1971, Contemporaries 1972, 1974; On Verbor Farm, Stories 1973. *Address:* 27 Ulitsa Krasnoarmeiskaya kv. 87, Moscow 125319, U.S.S.R.

BABBIDGE, Homer Daniels, Jr., PH.D.; American university president; b. 18 May 1925, West Newton, Mass.; s. of Homer Daniels Babbidge and Allalie Lavinia Adams; m. Marcia J. Adkisson 1956; one s. two d.; ed. Yale Univ.; co-founder, American studies for foreign students, Yale Univ. 1948; Exec. Fellow Pierson Coll. 1949-57; Dir. of financial aids, lecturer in Educ., mem. Board of Admissions, Yale Univ. 1954-57; Special Asst. to U.S. Commr. for Educ. 1955-56; Asst. to Sec. Dept. of Health, Educ. and Welfare 1957-58; Dir. Program of Financial Assistance to Higher Educ. 1958-59; Asst. Commr., Dir. Div. of Higher Educ. 1959-61; Vice-Pres. American Council on Educ. 1961-62; Pres. Univ. of Conn. 1962-72, Hartford Graduate Center 1976-; Master Timothy Dwight Coll., Yale, Fellow Inst. for Social and Policy Studies 1972-76; Dir. Hartford Nat. Bank, Encyclopaedia Britannica Corpn., Security-Connecticut Life Insurance Co.; mem. Conn. Educ. TV Corpn., American Historical Assen., American Studies Assen., Aurelian Soc., Marine History Assen., Scroll and Key; Trustee Hazen Foundation, Gannett Foundation, Mystic (Conn.) Seaport, Choate School, Wadsworth Athenaeum; Hon. L.H.D. Hartford 1963, Fairfield 1968, Rosary Hill Coll. 1969, Univ. New Haven 1973; Hon. LL.D. Ithaca Coll., Yale Univ. 1960, Trinity Coll. 1969, American Int. Coll. 1970; named as one of outstanding young men, U.S. Junior Chamber of Commerce 1959; Distinguished Service Medal, U.S. Dept. of Health, Educ. and Welfare 1961; Outstanding Civilian Service Medal, Dept. Army 1972; Human Relations Award, Nat. Conf. Christians and Jews 1970. *Publications:* Student Financial Aid 1960, A Federal Education Agency for the Future 1961, The Federal Interest in Higher Education (co-author) 1962, Noah Webster: On Being American 1967. *Leisure interests:* stone wall building, ice-skating, reading. *Address:* 63 Wall Street, New Haven, Conn. 06510, U.S.A.

BABCOCK, Horace W., PH.D.; American astronomer; b. 13 Sept. 1912, Pasadena, Calif.; s. of Harold D. Babcock and Mary G. (Henderson); m. 1st M. B. Anderson 1940; one s. one d.; 2nd Elizabeth M. Aubrey 1958; one s.; ed. California Inst. of Tech. and Univ. of California. Instructor, Yerkes and McDonald Observatories 1939-41; Staff mem. Radiation Lab., Mass. Inst. of Tech. 1941-42; Staff mem. Office of Scientific Research and Devt. Project, Calif. Inst. of Tech. 1942-45; Staff mem. Mount Wilson and Palomar Observatories (now Hale Observatories) 1946-, Asst. Dir. 1957-64, Dir. 1964-78; mem. N.A.S. (Draper Medal 1957), Council mem. 1973-76; founder, Las Campanas Observatory (Chile) of Carnegie Inst., Washington, D.C.; mem. American Philosophical Soc., American Acad. of Arts and Sciences; Assoc. Royal Astronomical Soc.; Hon. Sc.D. (Newcastle) 1965; Eddington Medal 1957, Gold Medal 1970; Bruce Medal, Astronomical Soc. of Pacific; U.S. Navy Bureau of Ordnance Devt. Award. *Publications:* Articles in scientific and technical journals, mainly on magnetic fields of the sun and stars, theory of the sun's magnetic field, rotation of the spiral galaxy in Andromeda, ruling of diffraction gratings, astronomical instrumentation, observatory devt. in southern hemisphere. *Address:* The Hale Observatories, 813 Santa Barbara Street, Pasadena, Calif. 91101, U.S.A. *Telephone:* 213-577-1122.

BABICS, Antal, DR. MED.; Hungarian surgeon and urologist; b. 4 Aug. 1902, Lovászpatona; s. of Endre Babics and Róza Moór; m. Ilona Esterházy 1940. Lecturer, Urological Clinic, Budapest Medical Univ. 1940, Prof. and Dir. of Clinic 1945-74; Corresp. mem. Hungarian Acad. of Sciences 1949-50, full mem. 1950-, Sec. Medical Dept., Hungarian Acad. of Sciences; mem. Presidium Int. Urological Soc.; Hon. mem. Soviet Soc. of Surgeons, Urological Socs. of Italy, Germany, Austria and Romania, Purkinje Soc. of Czechoslovakia, Soviet Medical Acad.; Kossuth Prize 1951; Labour Order of Merit, golden degree 1951, 1955, 1970, Banner Order of Hungarian Repub., Trade Union Gold Medals 1962, 1972, 1977; Patriotic People's Front award of merit 1975. *Publications include:* Urology 1952, 1972, The Theory and Clinical Aspects of Kidney Necrosis 1952, The Lymphatic System of the Kidney 1957, Haematurie 1959, Clinical and Theoretical Pictures of some Renal Diseases 1964, Early Diagnosis of Cancer in the Urological System 1971, Anuria: The Therapeutic Experiences 1972, Intraoperative Diagnosis of Misleading Cases in Urology 1977. *Leisure interests:* angling, walking, dogs, natural science books. *Address:* Budapest II, Pór Bertalan utca 5, Hungary. *Telephone:* 355-109 (Home).

BABIIHA, John Kabwimukya, B.A., DIP. VET. SC., F.I.B.A.; Ugandan politician; b. 17 April 1913, Toro; s. of late Zachary Kubangisa and of Elizabeth Tibananuka; m. Elizabeth Kabahuma 1940; five s. nine d.; ed. St. Joseph's Coll. Mbarara, St. Mary's Coll. Kisubi, Makerere Univ. Coll. and Pretoria Univ. Asst. Veterinary Officer 1939-45; Asst. Treas. Toro District Admin. 1946-53; Uganda Legislative Council 1954-60; Chair. Commonwealth Parl. Assen., Ugandan Branch 1959; mem. Parl. 1961-71, Minister of Animal Industry, Game and Fisheries 1962-71; Vice-Pres. of Uganda 1966-71; Chair. Council of Veterinary Educ. of E. Africa 1963-71; Special Pres. Adviser on Animal Resources 1973-; mem. Makerere Univ. Council 1974-; Knight Commdr. Order of Stars of Queen of Sheba (Ethiopia) 1963, Chevalier, Grand Cordon Order of the Leopard (Zaire), Knight Order of Grand Cross of Pope Pius IX (Vatican), Gold Medal and Distinguished Diploma (Vatican), 1965, Independence Medal 1962, Medal for Distinguished Service (Uganda) 1973, Medalha Pro Mundi Beneficio (Brazil) 1975, and other awards. *Publications:* The Bayaya Clan in the Western Region 1957. *Leisure*

interests: walking, reading, debates, social anthropology. *Address:* P.O. Box 7168, Kampala; P.O. Box 13, Fort Portal, Uganda (Home).

BABIKIAN, Khatchik Diran; Lebanese lawyer and politician; b. 1924, Cyprus; m. 1956; five d.; ed. Collège Italien, Beirut, Faculté Française de Droit, Beirut, Faculté de Paris, Univ. of London. Barrister; Deputy for Beirut 1957, 1960, 1964, 1968, 1972; mem. Parl. Comm. on Justice; Pres. Traffic Comm., Parl. Comm. on Planning, Lebanese Management Asscn. 1972; Minister for Admin. Reform 1960-61; Minister of Public Health 1968-69; Minister of Tourism 1969-70, of Information 1972-73, of Planning 1973; Pres. Armenian Nat. Assembly 1972. *Address:* Place de l'Etoile, Beirut (Office); Rue Abrine, Achrafié, Beirut, Lebanon (Home). *Telephone:* 242033 (Office); 322013 (Home).

BABIN, Jean; French professor; b. 26 Feb. 1905, Montfaucon-en-Argonne; s. of Albert and Jeanne (Charmaille) Babin; m. Henriette Nicolas 1938; three s. three d.; ed. Univ. de Nancy. High School teacher 1927-29, Lycée Asst. 1929-33, Prof. 1933-41; School Inspector 1941-47; Dir. of Education in the Saar 1947-48; Prof. Faculty of Letters, Lille Univ. 1948-55; Rector, Acad. de Strasbourg 1955-58, Acad. de Bordeaux 1960-72; Dir. du Centre Nat. des Œuvres Univs. 1958-60; Gen. Del. of Minister of Educ. for Int. Univ. Affairs 1972-75; corresp. mem. and Lauréat of Acad. of Stanislav, Nancy, Lauréat of French Acad.; Officier de la Légion d'honneur, Commdr. Ordre des Palmes acad., Commdr. Ordre national du Mérite, du Ouissam alaouite, Ordre du Drapeau (Yugoslavia), Ordre Orange-Nassau (Luxembourg); Dr. h.c. Univs of Pennsylvania, Madrid, Calif., Cracow, Teheran. *Publications:* (with A. Babin) Du français au latin et aux langues vivantes par l'analyse 1936, Les lieux-dits de la commune de Boureuilles (Meuse) 1952, Le toponymiste dans la mine 1953, Les lieux-dits de la mer 1954, Les parlers de l'Argonne 1955; numerous articles. *[Died 15 December 1978.]*

BABINGTON SMITH, Michael James, C.B.E.; British banking executive; b. 20 March 1901; s. of Sir Henry Babington Smith G.B.E., K.C.B., C.H., and Lady Elisabeth Mary Bruce; m. Jean Mary Meade 1943; one s. two d.; ed. Eton and Trinity Coll., Cambridge. Brig. in SHAEF 1944-45; Dir. Glyn Mills and Co. 1933-63, Bank of England 1949-69, Cie. Financière de Suez 1957-74, Bank for Int. Settlements 1965-74, Suez Int., Nat. and Grindlays Bank Ltd., and other companies; Chair. Cttee. in London, Ottoman Bank 1975-; Sheriff of London 1953 and 1962. *Leisure interests:* fishing, shooting. *Address:* Flat 6, 20 Embankment Gardens, London, SW3 4LW, England. *Telephone:* 01-352 2854.

BABIUCH, Edward, M.ECON.; Polish politician; b. 28 Dec. 1927, Grabocin Będzin District, Katowice Voivodship; ed. Silesian Technical Scientific Establishment and Gen. School of Planning and Statistics. Mem. Polish United Workers' Party (PZPR) 1948; functions in Voivodship Board, Katowice 1949 and subsequently in Cen. Board of Polish Youth Union: worked at Cen. Cttee. of PZPR 1955-59; Sec. PZPR Warsaw Voivodship Cttee. 1959-63; Deputy Head, Organization Dept., Cen. Cttee. 1963-65, Head 1965-70; Editor-in-Chief, Życie Partii 1963-65; Deputy to Seym 1969-; mem. Cen. Cttee. PZPR 1964-, mem. Politburo and Sec. Cen. Cttee. Dec. 1970-; Chair. Seym Comm. of Nat. Defence 1971-72; mem. Presidium, All-Polish Cttee. of Nat. Unity Front 1971-; mem. State Council 1972-, Deputy Chair. 1976-; Order of Banner of Labour (1st and 2nd Class), Officer's and Knight's Cross of Order of Polonia Restituta, Order of Yugoslav Star with Ribbon 1973, Medal of 30th Anniversary of People's Poland, Order of Builders of People's Poland, and numerous foreign awards. *Address:* Polska Zjednoczona Partia Rabotnicza, Nowy Świat 6, 00-497 Warsaw, Poland.

BACALL, Lauren; American actress; b. 16 Sept. 1924; m. 1st Humphrey Bogart 1945 (died 1957), 2nd Jason Robards 1961; two s. one d. *Films since 1945 include:* To Have and Have Not, The Big Sleep, Confidential Agent, Dark Passage, Key Largo, Young Man with a Horn, Bright Leaf, How to Marry a Millionaire, Woman's World, The Cobweb, Blood Alley, Written on the Wind, Designing Woman, The Gift of Love, Flame over India, Sex and the Single Girl, Harper, Murder on the Orient Express 1974, The Shootist 1976; plays: Goodbye Charlie 1960, Cactus Flower 1966, Applause 1970 (London 1972). *Publications:* Lauren Bacall By Myself 1978. *Address:* c/o Wallim, Simon, Black and Co., 1350 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

BACCHELLI, Riccardo; Italian writer; b. 19 April 1891, Bologna; s. of Giuseppe and Anna Bumiller; m. Ada Fochesfati 1966. Mem. Accad. Naz. dei Lincei, Accademia della Crusca, Florence, Accademia delle Scienze, Bologna, Accademia delle Scienze, Ferrara, Istituto Lombardo di Scienze e Lettere; Grand Officer of Italian Republic 1953; Dott. h.c. Univs. of Bologna and Milan. *Publications:* Poemi lirici 1914, Lo sa il tonno 1924, Ill diavolo al Pontelungo 1927, Amore di poesia 1930, La Congiura di Don Giulio d'Este 1931, Oggi, domani e mai 1932, Mal d'Africa 1934, Iride 1937, Il Mulion del Po 1938-40, Gioacchino Rossini 1941, Il Fiore della Mirabilis 1942, Il Pianto del Figlio di Lais 1945, Lo Sguardo di Gesù 1948, L'Alba dell'Ultima Sera 1949, La Cometa 1951, Italia per terra e per mare 1952, L'incendio di Milano 1952, Memorie del Tempo Presente 1953, Il Figlio di Stalin 1953, Tre giorni di passione 1955, Nel fiume della Storia 1955, Amleto 1956, I tre shiavi di Giulo Cesare 1957, Viaggio in Grecia 1959, Non ti chiamerò più padre 1959, Leopardi e Manzoni 1960, Viaggi all'estero e vagabondaggi di fantasia 1966, Giorno per giorno 1912-1922 1966, America in confidenza 1966, Rapporto segreto 1967, Giorno per Giorno 1932-1966 1968, L'Afrodite 1969, Africa tra Storia e Fantasia 1969, La Stella del Mattino 1971, Bellezza e Umanità 1972, Giorni di Vita e Temo di Poesia 1973, Il progresso i un rasso 1974, Il sommergibile 1975. *Address:* Borgonuovo 20, 20121 Milan, Italy.

BACCHETTI, Fausto; Italian diplomatist; b. 12 May 1917, Chieti; s. of Tito and Teresa (née Vescovali) Bacchetti; m. Amata Martorelli 1950; one d.; ed. Univ. of Rome. Private Secretary to Deputy Prime Minister 1944-46; entered Foreign Service 1948, served in Embassy, London 1951-56, del. to NATO 1952-64, Embassy, Paris 1964-65; Dir. of Cabinet of Sec.-Gen., NATO 1965-71; Deputy Dir.-Gen. for Co-operation, Rome 1971-74; Amb. to Israel 1974-78; Italian Rep. to OECD 1978-; Grande Ufficiale dell'Ordine della Republica; Officier, Légion d'honneur; Order of Merit, Fed. Repub. of Germany. *Leisure interests:* tennis, golf, skiing. *Address:* 2 avenue Frédéric Le Play, 75007 Paris, France. *Telephone:* 705-05-71.

BACH, Wilhelm Franz-Josef, DR. ING.; German engineer and diplomatist; b. 4 Feb. 1917, Neuss; s. of Gustav and Christine (née Kaiser) Bach; m. 1942; two d.; ed. Technical Univs. of Aachen, Berlin and Brunswick. Asst. Prof. of Aerodynamics, Technical Univ., Aachen 1942-45; Deputy Chief Editor Aachener Volkszeitung 1947-50; Diplomatic Service, Canberra 1951-54, Washington 1954-57; Personal Asst. to German Chancellor (Dr. Adenauer) 1957-61; Consul-Gen., Hong Kong 1961-64; Amb. to Iran 1964-69; mem. Bundestag 1969-72; industrial consultant 1972-; numerous decorations. *Publications:* Pressure Distribution on Objects Flying with Supersonic Velocity. *Leisure interests:* collector of coins and bronzes, golf. *Address:* Aachen, Preussweg 125, Federal Republic of Germany. *Telephone:* 0241-72007.

BACHER, Robert Fox, B.S., PH.D.; American physicist; b. 31 Aug. 1905, Londonville, Ohio; s. of Harry and Bryl Fox Bacher; m. Jean Dow 1930; one s. one d.; ed. Univ. of Michigan. Nat. Research Fellow Physics, Calif. Inst. of Technology 1930-31, M.I.T. 1931-32; Alfred Lloyd Fellow, Univ. of Michigan 1932-33; Instructor, Columbia Univ. 1934-35; Instructor to Prof., Cornell Univ. 1935-49; Radiation Laboratory, M.I.T. 1940-45 (on leave 1943-45); Los Alamos Laboratory, Atomic Bomb Project 1943-46; Dir. of Laboratory of Nuclear Studies, Cornell Univ. 1946; mem. U.S. Atomic Energy Comm. 1946-49; Prof. of Physics, Calif. Inst. of Technology 1949-76, Prof. Emer. 1976-, Chair. Div. of Physics, Mathematics and Astronomy 1949-62, Provost 1962-70; mem. President's Science Advisory Cttee. 1953-55, 1957-60; Trustee, Carnegie Corpn. 1959-76, Claremont Graduate School 1971-, Universities Research Asscn. 1965-75 (Chair. 1969-73, Pres. 1973-74), Rand Corpn. 1950-60; Pres. Int. Union of Pure and Applied Physics 1969-72; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences, American Physical Soc. (Pres. 1964), American Asscn. for Advancement of Science; awarded Medal for Merit by Pres. Truman Jan. 1946. *Publications:* Atomic Energy States (with S. Goudsmit) 1932. *Address:* California Institute of Technology, Pasadena, Calif. 91125 (Office); 345 South Michigan Avenue, Pasadena, Calif. 91106, U.S.A. (Home).

BACHMANN, Kurt; German journalist and politician; b. 1909; fmr. leatherworker; joined C.P. of Germany 1932, worked underground in Cologne; fled to France 1938, joined Resistance Movement 1940; arrested in S.France 1942, imprisoned in seven concentration camps; helped found Asscn. of Victims of Nazi Persecution 1945, and helped publish Volksstimme (Communist newspaper), Cologne; mem. Exec. C.P. of Germany 1950-56 (party banned 1956); later became Bonn corresp. for Die Tat (weekly of Asscn. of Victims of Nazi Persecution); mem. Fed. Organizing Cttee., German C.P. 1968; Chair. of German C.P. 1969-73. *Address:* German Communist Party, Düsseldorf, Federal Republic of Germany.

BÄCHTOLD, Kurt, D.PHIL.; Swiss librarian; b. 13 Nov. 1918, Schaffhausen; m. Rös Egloff 1950; three s. one d.; ed. Gymnasium, Schaffhausen, Univs. of Lausanne, Zürich and Paris. Ed. Schaffhausen Nachrichten 1947-68; mem. Schaffhausen City Council 1948-52, Schaffhausen School Council 1959-61; mem. Nat. Council, Fed.

Assembly 1961-, Pres. until 1974; mem. European Parl. 1972-; Dir. Schaffhausen City Library. *Publications:* Weltgeschichte im 20. Jahrhundert 1959, Schauffhauser Biographien 1961, Wasser im Gefahr 1971, Protest und Dialog: Das Jugendproblem heute 1972, Die Evolution der Demokratie 1973. *Leisure interests:* walking, mountain climbing. *Address:* Vögelingässchen 34, 8200 Schaffhausen, Switzerland. *Telephone:* 5 12 04 (Office); 5 65 20 (Home).

BACKE, John David, M.B.A.; American broadcasting executive; b. 5 July 1932, Akron, Ohio; s. of John and Ellen Enyedy Backe; m. Katherine Elliott 1955; one s. one d.; ed. Miami Univ., Ohio, and Xavier Univ., Ohio. Various engineering, financial and marketing positions in General Electric Co. 1957-66; Vice-Pres. and Dir. of Marketing, Silver Burdett Co. 1966-68, Pres. 1968-69; Exec. Vice-Pres. General Learning Corpn. 1969, Pres. and Chief Exec. Officer 1969-73; Pres. of Publishing Group, CBS Inc. 1973-76, of CBS Inc. 1976-; Dir. of Business Marketing, Corpn. of New York 1978-; Special Del. to UNESCO Conf. on publishing for Arabic-speaking countries 1972; mem. Nat. Advisory Cttee. for Illinois Univ. Inst. for Aviation; Trustee of Museum of Broadcasting; mem. New York State Alliance to Save Energy; mem. Business Cttee. for the Arts; Hon. LL.D. (Miami and Xavier). *Leisure interest:* multi-engine piloting. *Address:* CBS Inc., 51 West 52nd Street, New York, N.Y. 10019, U.S.A. *Telephone:* (212) 975-5152.

BACKUS, George Edward, S.M., PH.D.; American theoretical geophysicist; b. 24 May 1930, Chicago, Ill.; s. of late Milo Morlan Backus and of Dora Dare Backus; m. Elizabeth E. Allen 1961; two s. one d.; ed. Thornton Township High School, Harvey, Ill. and Univ. of Chicago. Asst. Examiner, Univ. of Chicago 1949-50; Junior Mathematician, Inst. for Air Weapons Research, Univ. of Chicago 1950-54; Physicist, Project Matterhorn, Princeton Univ. 1957-58; Asst. Prof. of Mathematics, M.I.T. 1958-60; Assoc. Prof. of Geophysics, Univ. of Calif. (La Jolla) 1960-62, Prof. 1962-; Guggenheim Fellowship 1963; Fellow American Geophysical Union, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences. *Publications:* Self-sustaining Dissipative Kinematic Fluid Dynamo 1958, Rotational Splitting of the Free Oscillations of the Earth 1961, Propagation of Short Waves on a Slowly Rotating Earth 1962, Magnetic Anomalies over Oceanic Ridges 1964, Possible Forms of Seismic Anistropy 1962, 1965, 1970, Potentials for Tangent Tensor Fields on Spheroids 1966, Inversion of Seismic Normal Mode Data (with F. Gilbert) 1966, Geomagnetic Data and Core Motions 1967, Reduction Languages and Variable-Free Programming 1972, Inversion of Earth Normal Mode Data (with F. Gilbert) 1968, 1969, 1970, Inference from Inaccurate and Inadequate Data 1971, 1972. *Leisure interests:* hiking, swimming, history, reading, disciplined fiction, flying, skiing. *Address:* Institute of Geophysics and Planetary Physics, University of California, San Diego, P.O.B. 109, La Jolla, Calif. 92037 (Office); 7687 Hillside Drive, La Jolla, Calif. 92037, U.S.A. (Home). *Telephone:* 714-453-2000 (Office); 714-454-5868 (Home).

BACKUS, John, A.M.; American computer programmer and mathematician; b. 3 Dec. 1924, Philadelphia; s. of Cecil Franklin Backus and Elizabeth Edsall; m. 2nd Una Stannard 1968; two d.; ed. Columbia Univ. Research Staff mem., Thomas J. Watson Research Center 1959-63; IBM Fellow, San José, Calif. 1963-; Adjunct Prof. of Information Sciences, Univ. of Calif., Santa Cruz 1974-; mem. Assen. for Computing Machinery, American Mathematical Soc., NAS, Nat. Acad. Eng. 1977; W. W. McDowell Award, Inst. of Electrical and Electronics Engineers 1967; National Medal of Science 1975, A. M. Turing Award, Assen. for Computing Machinery 1977. *Publications:* Systems Design of the IBM 704 Computer (with G. M. Amdahl) 1954, The Fortran Automatic Coding System (with others) 1957, The Syntax and Semantics of the Proposed International Algebraic Language of the Zürich ACM-GAMM Conference 1959, Report on the Algorithmic Language ALGOL 60 (with others) 1960, Programming Language Semantics and Closed Applicative Languages (conference record of ACM Symposium) 1973, Can Programming Be Liberated from the von Neumann Style? A Functional Style and Its Algebra of Programs, (Communications of the Assen. for Computing Machinery) 1978. *Leisure interests:* music, psychology. *Address:* IBM Research Laboratory, 5600 Cottle Road, San José, Calif. 95193 (Office); 91 St. Germain Avenue, San Francisco, Calif. 94114, U.S.A. (Home). *Telephone:* (415) 545-3052, (408) 256-7220 (Office); (415) 731-8155 (Home).

BACON, Edmund Norwood, B.ARCH.; American architect and planner; b. 2 May 1910, Philadelphia; s. of Ellis W. and Helen Comly Bacon; m. Ruth Holmes 1938; two s. four d.; ed. Cornell Univ. and Cranbrook Acad. Architectural Designer, Shanghai, China 1934; housing projects for W. Pope Barney, Architect, Philadelphia 1935; Supervisor of City Planning, Flint (Michigan) Inst. of Research and Planning; Man. Dir. Philadelphia Housing Assen. 1940-43; Co-Designer Better Philadelphia Exhibition and Senior Land Planner, Philadelphia City Planning Comm.; Exec Dir. Philadelphia City Planning Comm. 1949-70; Professional Adviser, Franklin Delano Roosevelt Memorial Competition 1959; mem. President's Citizens' Advisory Cttee. on Environmental Quality 1970; Vice-Pres. Design and Devt., Mondev International Ltd.; numerous awards. *Publications:* Design of Cities 1967. *Address:* 2117 Locust Street, Philadelphia, Pa. 19103, U.S.A. (Home). *Telephone:* (215) LO7-0693.

BACON, Francis; painter; b. 1909, Dublin; began to teach himself to paint 1930; first one-man shows London 1949, New York 1953; exhibited at Venice Biennale 1954; rep. at Brussels Int. Exhbn. 1958; *Important works include:* triptychs: Three Studies for Figures at the Base of a Crucifixion 1944, Crucifixion 1962, Sweeney Agonistes 1967, Triptych 1972, Triptych 1973, Triptych 1974, Triptych 1976; single oils: Man with Dog 1953, Study After Velazquez's Portrait of Pope Innocent X 1953, Two Figures 1953, Study for a Portrait of Van Gogh 1957, Portrait of Isabel Rawsthorne standing in a Street in Soho 1967; Retrospective Exhbn. Tate Gallery, London 1962, Paris 1971; exhbn. New London Gallery 1963, Solomon Guggenheim Museum, New York 1963, Galerie Maeght, Paris 1966, Marlborough New London Galley 1967, Marlborough-Gerson Gallery, New York 1968, Grand Palais, Paris 1971, Kunsthalle, Düsseldorf 1972, Metropolitan Museum, New York 1975, Musée Cantini, Marseilles 1976, Museo de Arte Moderna, Mexico 1976, Galérie Claude Bernard, Paris 1977, Museo Contemporáneo, Caracas 1977; travelling exhbns. Mannheim, Turin, Zürich, Amsterdam 1962, Hamburg, Stockholm, Dublin 1965; Rubens Prize, City of Siegen 1966, Prize, Carnegie Inst. Pittsburgh 1967. *Address:* c/o Marlborough Fine Art Ltd., 6 Albermarle Street, London, W1X 3HF, England.

BACON, Francis Thomas, O.B.E., F.R.S., M.A., F.ENG., M.I.MECH.E.; British mechanical engineer; b. 21 Dec. 1904, Billericay; s. of Mr. and Mrs. T. W. Bacon; m. Barbara Winifred Papillon 1934; one s. one d.; ed. Eton and Trinity Coll., Cambridge; with C. A. Parsons & Co., Newcastle on Tyne 1925-40; anti-submarine work for Admiralty in Second World War; research on Hydrox Fuel Cell, Cambridge Univ. 1946-56; consultant to Nat. Research Development Corpn. on development of Hydrox Fuel Cells, Cambridge 1957-62; consultant to Energy Conversion Ltd. 1962-71, to Fuel Cells Ltd. 1972-73; S. G. Brown Award (Royal Soc.) 1965, British Silver Medal (Royal Aeronautical Soc.) 1969, Churchill Gold Medal Award (Soc. of Engineers) 1972, Melchett Medal (Inst. of Fuel) 1972, Bruno Breyer Memorial Medal (Royal Australian Chemical Inst.) 1976, Vittorio de Nora Diamond Shamrock Award and Prize (Electrochemical Soc.) 1978. *Leisure interests:* walking in the hills, fishing. *Address:* Trees, 34 High Street, Little Shelford, Cambridge, CB2 5ES, England (Home). *Telephone:* Shelford 3116 (Home).

BACON, Paul; French politician; b. 1 Nov. 1907, Paris; s. of Laurent Bacon and Maria Baradat; m. Marthe Rajaud 1933; two s.; ed. Ecole Professionnelle de Pau. Began career as furniture designer 1923-27; mem. Gen. Secrétariat Jeunesse Ouvrière Chrétienne 1927-37; Chief Ed. of Monde Ouvrier 1937-39; served French Army 1939-40; mem. Assemblée Nationale Consultative 1944-45 (Groupe Résistance Metropolitaine); Dir. of Syndicalisme (organ of Confédération Française des Travailleurs Chrétiens) 1945; Deputy (M.R.P.), Vice-Pres. Ass. Nat. Constituante 1946-; Sec. to Presidency of Council 1949-50; Minister of Labour and Social Security, Bidault, Queuille, Pleven, Faure Cabinets 1950-52, Mayer Cabinet 1953, Laniel Cabinet 1953-54, Faure Cabinet 1955-56, Gaillard Cabinet 1957-58; Minister without Portfolio, subsequently Minister of Labour, de Gaulle Cabinet 1958; Minister of Labour, Debré Cabinet 1959-May 1962, Pompidou Cabinet 1962; mem. Conseil Economique et Social 1963; Dir. Turin Int. Centre for Advanced Technical and Vocational Training, Int. Labour Org. (ILO) 1964-67; Chair. Centre d'Etude des Revenus et des Coûts (Commissariat-Gén du Plan) 1967-77; mem. Conseil National de la Statistique 1973-; Député honoraire, Chevalier Légion d'honneur; Commdr. Mérite social, Santé publique. *Publications:* La naissance de la classe ouvrière, Vers la réforme de l'entreprise capitaliste, La democratie économique et sociale. *Leisure interest:* painting. *Address:* Chemin du Courdé, 32200 Gimont (Office); 23 avenue Balzac, La Varenne-St.-Hilaire (Val de Marne), France (Home). *Telephone:* (62) 65-72-89 (Office); 883-15-58 (Home).

BACQUIER, Gabriel; French (baritone) opera singer; b. 17 May 1924, Béziers; s. of Augustin Bacquier and Fernande Sévera; m. 1st Simone Teisseire 1943, 2nd Mauricette Bénard 1958; two s.; ed. Paris Conservatoire; debut at Théâtre Royal de la Monnaie, Brussels 1953; joined Opéra de Paris 1956; debut at Carnegie Hall 1960, Metropolitan Opera, New York 1961; now appears regularly at the Vienna State Opera, Covent Garden, La Scala, Opéra de Paris and most leading opera houses. Repertoire includes Otello, Don Gio-

vanni, Pelléas et Mélisande, Damnation de Faust, Tosca, Falstaff; several recordings; Prix national du disque français 1964, and other prizes; Chevalier de la Légion d'honneur, Chevalier de l'ordre nationale du Mérite. *Leisure interests:* painting, drawing. *Address:* 141 rue de Rome, Paris 173, France. *Telephone:* 227-33-84.

BADDILEY, Sir James, Kt., M.SC., PH.D., D.SC., F.R.S.E., F.R.S.; British professor of chemical microbiology; b. 15 May 1918, Manchester; s. of the late James Baddiley and Ivy (Cato) Baddiley; m. Hazel M. Townsend 1944; one s.; ed. Manchester Grammar School and Univ. of Manchester. ICI Fellow, Univ. of Cambridge 1944-49; Fellow, Swedish Medical Research Council, Stockholm 1947-49; mem. of staff Dept. of Biochemistry, Lister Inst., London 1949-54; Prof. of Organic Chem., Univ. of Durham (Newcastle Div.) 1955-77; Head of the School of Chem., Univ. of Newcastle upon Tyne 1968-78, Prof. of Chem. Microbiology 1977-; Hon. Dir. Microbiological Chem. Research Lab. 1968-; Hon. mem. American Soc. of Biological Chemists; Rockefeller Fellow 1954; Tilden Lecturer, Chemical Soc. 1959, Karl Folkers Lecturer, Univ. of Illinois 1962, Leeuwenhoek Lecturer, Royal Soc. 1967, Pedler Lecturer, Chem. Soc. 1978; Meldola Medal, Royal Inst. of Chem. 1947, Corday-Morgan Medal and Prize, Chem. Soc. 1952, Davy Medal, Royal Soc. 1974; Hon. D.Sc. (Heriot-Watt) 1978. *Publications:* Numerous publications in bio-chem. and microbiological chem. *Leisure interests:* music, photography. *Address:* Microbiological Chemistry Research Laboratory, University of Newcastle upon Tyne, Newcastle upon Tyne, NE1 7RU (Office); 26 Woolsington Park South, Woolsington, Newcastle upon Tyne, NE13 8BJ, England (Home). *Telephone:* Newcastle 28511, Ext. 3071 (Office); Newcastle 860229 (Home).

BADINGS, Henk, DR.ENG.; Netherlands composer; b. 17 Jan. 1907, Bandoeng, Indonesia (fmrly. Dutch East Indies); m. Jeannette Tukke 1946; one d.; ed. Tech. Univ., Delft. Asst. in Palaeontology, Tech. Univ., Delft 1931-34; first symphony performed in Amsterdam 1930; Prof. of Composition, Rotterdam Conservatoire 1934-35; Prof. of Composition, Musical Lyceum, Amsterdam 1935-37, Co-Dir. 1937-41; Dir. State Conservatoire, The Hague 1941-45; freelance composer 1945-; Dir. Electronic Music Studio, Univ. of Utrecht 1961-64, Prof. of Acoustics and Information 1964-; Guest Prof., Adelaide Univ. (Australia) 1962-63; Prof. of Musical Composition, Musikhochschule, Stuttgart (Germany) 1962-72, Utrecht Univ. 1962-77; mem. Royal Flemish Acad. of Art; Hon. Citizen of New Martinsville, W. Virginia, U.S.A.; Paganini Prize 1953, Italia Prize 1954, Marzotto Prize 1964, Rai-Italia Prize 1971, Sweelink Prize 1972. *Compositions:* sixteen symphonies, chamber music, choral works, operas, etc., as well as electronic music. *Leisure interests:* geology, plastic arts, literature, travelling, philately. *Address:* 6026 RG, Maarheeze, Netherlands. *Telephone:* 04957-327.

BADRAN, Mudar, B.A.; Jordanian politician and civil servant; b. 1934, Jerash; ed. Univ. of Damascus, Syria. Lieutenant and Legal Consultant, Jordanian armed forces 1957, Capt. and Legal Adviser to the Armed Forces Treasury 1962; Asst. Chief, Jordanian Foreign Intelligence 1965; Deputy Chief of Gen. Intelligence 1966, Chief 1968; Retd. Maj.-Gen. 1970; Chief Chamberlain of the Royal Court 1970, Sec.-Gen.; Nat. Security Adviser to King Hussein 1971; Minister in the Royal Court 1972; Deputy Head, Exec. Office of Occupied Territories Affairs 1972-73; Minister of Educ. 1973-74; Chief of the Royal Court 1974-76; Prime Minister, Minister of Defence and of Foreign Affairs July 1976-; fmr. mem. Exec. Council of the Arab Nat. Union. *Address:* Office of the Prime Minister, Amman, Jordan.

BADURA-SKODA, Paul; Austrian pianist; b. 6 Oct. 1927; m. Eva Badura-Skoda; ed. Realgymnasium courses in conducting and piano, Konservatorium der Stadt Wien, and Edwin Fischer's Master Class in Lucerne. Regular concerts since 1948; tours all over the world as soloist and with leading orchestras; conductor of chamber orchestra 1960-; yearly master classes fmrly. in Edinburgh, Salzburg and Vienna Festival 1958-63; artist in residence, Univ. of Wisconsin, master classes in Madison, Wisconsin 1966-71; recorded over 100 L.P. records including complete Beethoven and Schubert sonatas; First Prize Austrian Music Competition 1947; Austrian Cross of Honour for Science and Arts (1st Order) 1976. *Compositions:* A Mass in D, Cadenzas to Piano and Violin Concertos by Mozart and Haydn. *Publications:* Co-author Interpreting Mozart on the Keyboard (with Eva Badura-Skoda), Die Klaviersonaten von Beethoven (with Jörg Demus) 1970; Editions of Schubert, Mozart, Chopin; numerous articles. *Leisure interest:* chess. *Address:* Zuckerkandlgass 14, Vienna 1190, Austria.

BAERDEMAEKER, Adolphe de, D. EN D.; Belgian Foreign Office official; b. 28 Oct. 1920, Brussels; m. Anne d'Udekem D'Acoz 1954; one s. one d.; ed. Univ. Catholique de Louvain. Econ. Surveys Branch, Ministry of Econ. Affairs 1943; Attaché, Econ. and Financial Affairs, Belgian Embassy, London 1945; Deputy Sec.-Gen. Brussels Treaty Org., London 1950; Deputy Sec. NATO Council, London, and Sec. of Econ. and Financial Bureau, Paris 1951-52; Counsellor, Private Office of Minister of Econ. Affairs 1952-54; Counsellor, Econ. Questions, Vice-Chair. OEEC Econ. Cttee., Belgian Dels. to NATO and OEEC, Paris 1954-58; Dir. Gen. Directorate of External Relations, EEC 1958; Perm. EEC Del. to OECD 1966–. *Leisure interest:* golf. *Address:* 61 rue des Belles Feuilles, Paris 16e (Office); 129 avenue Malakoff, Paris 16e, France (Home). *Telephone:* 5015885 (Office).

BAEV, Aleksandr Aleksandrovich, D.SC.; Soviet biochemist; b. 10 Jan. 1904, Chita; ed. Kazan State Univ. Physician 1927-30; Lecturer, Kazan Medical Inst. 1930-35; Senior Research Worker, Bakh Inst. of Biochem., U.S.S.R. Acad. of Sciences 1935-59; Head of Laboratory, Inst. of Molecular Biology 1959-; mem. CPSU 1964–; corresp. mem. U.S.S.R. Acad. of Sciences 1968-70, mem. 1970-, mem. Inst. Molecular Biology; mem. Acads. of Poland, Bulgaria, Hungary, G.D.R., and Leopoldina Acad.; Pres. Int. Union of Biochemistry 1976-79; U.S.S.R. State Award 1969. *Publications:* works on primary structure of nucleic acids and molecular genetics. *Address:* Institute of Molecular Biology, 32 Ulitsa Vavilova, Moscow, U.S.S.R.

BAEZ, Joan; American folk singer; b. 9 Jan. 1941, Staten Island, N.Y.; d. of Albert V. and Joan (Bridge) Baez; m. David Harris 1968 (divorced 1973); one s.; ed. School of Fine and Applied Arts, Boston Univ. Began career as singer in coffee houses, appeared at Ballad Room, Club 47 1958-68, Gate of Horn, Chicago 1958, Newport, R.I., Folk Festival 1959-69, Town Hall and Carnegie Hall, New York 1962, 1967, 1968; gave concerts in black colls. in southern U.S.A. 1963-; toured Europe 1970, 1971, 1972, 1977 (U.K.), U.S.A. 1970, 1971, 1972, 1973, Democratic Repub. of Viet-Nam 1972; recordings with Vanguard Records 1960-72, A & M Record Co. 1972-76, Portrait Records 1977-; many TV appearances; began refusing payment of war taxes 1964; detained for civil disobedience opposing conscription 1967; speaking tour of U.S.A. and Canada for draft resistance 1967-68; Founder, Vice-Pres. Inst. for Study of Non-Violence 1965. *Publications:* Joan Baez Songbook 1964, Daybreak 1968, Coming Out (with David Harris) 1971. *Address:* Chandos Productions, P.O. Box 1026, Menlo Park, Calif. 94025, U.S.A. *Telephone:* (415) 328-0266.

BÁEZ-CAMARGO, Gonzalo; Mexican teacher; b. 13 Nov. 1899, Oaxaca; s. of Guillermo Camargo and Rosenda González Angulo; m. Urania Báez Rascón 1925; four s. one d.; ed. Methodist Mexican Inst., Union Evangelical Seminary, Mexico, and Univ. Nacional Autónoma de México. Vice-Pres. Methodist Mexican Inst., Puebla 1927; Exec. Sec. and Gen. Sec. on Christian Educ. Evangelical Council of Mexico 1929-41; Man. Union Publishing House, 1931-46; Prof. Christian Literature and Journalism 1941-61, Old Testament 1962, Hebrew 1963-71, Union Evangelical Seminary; Sec. Cttee. on Literature, Cttee. on Co-operation in Latin America 1946-60; Prof. Modern Ideologies, Presbyterian Seminary 1963; Prof. Spanish, Univ. Iberoamericana 1964-68; Prof. Old Testament, Baptist Seminary 1964; Prof. Old Testament, Lutheran Seminary 1966; Prof. of Hebrew, Theological Community 1968-71; Prof. of Journalism, Carlos Septien School of Journalism 1971; mem. Editorial Cttee., New Spanish Version of the Bible 1960-73; Exegetical Adviser, Popular Version of the Bible 1973-. *Publications:* Hacia la Renovación Religiosa en Hispano-américa 1930, Principios y Método de la Educación Cristiana 1932, Religion in the Republic of Mexico (co-author) 1935, Baltasar Gracián y Morales 1944, El Artista y Otros Poemas 1946, Biografía de un templo 1953, 1974, Tres poemas 1951, La Nota Evangélica en la Poesia Hispanoamericana 1960, Protestantes enjuiciados por la Inquisición en Iberoamérica 1960, El Comunismo, el cristianismo, y los cristanos 1960, Genio y espíritu del metodismo wesleyano 1962, El "don de lenguas" en el Neuvo Testamento 1972, La Cruz, símbolo cristiano universal 1973, Breve historia del texto bíblico 1975, Breve historia del canón bíblico 1979, Comentario arqueológico de la Biblia 1979; under pseudonym of "Pedro Gringoire": La Superstición de la Sangre "Aria" 1942, Martin Niemoeller 1938, Un Prefacio a la Educación para la Libertad 1946, Las manos de Cristo 1950, Los manuscritos de Qumrán 1957, El materialismo zoológico 1963, El doctor Mora, impulsor de la causa bíblica en México 1963, Galería de retratos literarios 1967, Pérate que trilla y otros poemas populares 1970, Oda clásica a la primavera 1971, Una exhibición de ignorancia y mala fe 1971, U.R.S.S.: cárcel del pensamiento 1971, Para que el mundo crea 1971, Voces perdurables de nuestro tiempo 1971, Los rollos de Qumrán (mar Muerto) 1979, Marxismo: ¿ciencia pura o ciencia-ficción? *Leisure interests:* music, photography. *Address:* Avenida Nevado 133, México 13, D.F., Mexico. *Telephone:* 539-54-40.

BAFFI, Paolo; Italian banker; b. 5 Aug. 1911, Broni, Pavia; s. of Giovanni and Giuseppina Lolla; ed. Bocconi Univ. of Milan; joined Banca d'Italia 1936, Research Dept. 1936-56, Econ. Adviser 1956-60, Dir.-Gen. 1960-75, Gov. 1975-; Econ. Adviser, BIS 1956-60, mem. Board of Dirs. 1975-; Visiting Prof. Cornell Univ. 1959-60; Prof. Monetary History and Policy, Rome Univ.; Chair. Ufficio Italiano dei Cambi 1975-; Gov. for Italy, IBRD (World Bank) 1975–; mem. Cttee. of Central Bank Govs., EEC 1975-; mem. Board of Dirs. Consiglio Nazionale delle Ricerche 1975-; mem. Accad. Naz. dei Lincei; Cavaliere di Gran Croce; Commdr. Légion d'honneur (France). *Publications:* The Dollar and Gold 1953, Monetary Developments in Italy from the War Economy to Limited Convertibility 1935-1956 1958, Problems of European Economic Integration 1960, Monetary Stability and Economic Development in Italy 1946-1960 1961, Studi sulla Moneta 1965, The Inflation Problem in Europe 1966, Western European Inflation and the Reserve Currencies 1968, Les mouvements des salaries et de la balance des paiements dans les récentes expériences italienne et internationale 1969, Nuovi studi sulla Moneta 1973, Saving in Italy today 1974, Italy's Narrow Path 1975, Il Governo della Moneta nel Nostro Tiempo 1976, I Flussi del Creditor in una Economia Aperta 1977. *Address:* Banca d'Italia, Via Nazionale 91, 00184 Rome, Italy (Office). *Telephone:* 4672.

BAFIA, Jerzy; Polish judge and politician; b. 5 May 1926, Płociczno, Suwalki District; s. of Franciszek and Maria Bafia; m. Stanisława Bafia 1950; one s.; ed. Jagellonian Univ., Cracow. Judge, District Court of Justice, then Voivodship Court of Justice 1950-53; with Supreme Court of Justice 1953-54; with Ministry of Justice 1954-69, Dir. Dept. of Codification 1958-69; Doctor of Legal Sciences, Warsaw Univ. 1961-64, Asst. Prof. 1964-70, Prof. Extraordinary 1970-78, Ordinary Prof. 1978-; Asst. Prof. Silesian Univ. 1968-69; Head Chancellery, Seym (Parl.) 1969-72; First Chief Justice of Supreme Court 1972-76; Deputy to Seym 1972-; Minister of Justice 1976-; Sec.-Gen. Polish Lawyers' Assen. 1963-72, mem. Codifying Cttee., Sec. of Cttee. Presidium 1964-; Chair. Scientific Council, Inst. of State and Law, Polish Acad. of Sciences (fmr. Inst. of Legal Sciences); Vice-Pres. Int. Union of Lawyers (Democrats) 1970-; mem. Polish United Workers' Party; Cen. Cttee. of Party Control Dec. 1975-; decorations include Knight Cross Order of Polonia Restituta, Order of Banner of Labour (1st class). *Address:* Ministerstwo Sprawiedliwosci, Aleje Ujazdowskie II, 00-950 Warsaw (Office); Ulica Sułkowicka 6 m. 3, 00-396 Warsaw, Poland (Home). *Telephone:* 41-15-82 (Home).

BAFILE, H. E. Cardinal Corrado; Prefect of the S.C. for the Causes of Saints; b. 1903; ed. State Univ., Rome, and Lateran Univ., Rome; ordained priest 1936; Vatican Secretariat of State 1939-; Privy Chamberlain to Pope John XXIII 1958-60; Papal Nuncio to Germany 1960-75; Titular Archbishop of Antiochia in Pisidia 1960-75; cr. Cardinal 1976. *Address:* Vatican City, Rome, Italy.

BAGAZA, Col. Jean-Baptiste; Burundi army officer and politician; b. 29 Aug. 1946, Murambi; ed. Ecole des Cadets, Brussels, and the Belgian Mil. School, Arlon; fmr. Asst. to Gen. Ndabemeye; Chief of Staff of the Armed Forces, rank of Lt.-Col.; led coup to overthrow Pres. Micombero Nov. 1976; Chair. Supreme Revolutionary Cttee. and Pres. of the Repub. of Burundi Nov. 1976-; promoted to Col. 1977. *Address:* Présidence de la République, Bujumbura, Burundi.

BAGGIO, H.E. Cardinal Sebastiano; Vatican ecclesiastic; b. 16 May 1913, Rosà, Italy; s. of Giovanni Battista and Pierina Baggio; ed. Seminario Vescovile di Vicenza, Pontificia Università Gregoriana, Pontificia Accademia Ecclesiastica and Scuola di Paleografia e Biblioteconomia at the Vatican library; ordained priest 1935; Sec. Nunciatures in El Salvador, Bolivia, Venezuela 1938-46; with Secr. of State 1946-48; Chargé d'affaires, Colombia 1948-50; Sacra Congregazione Concistoriale 1950-53; Titular Archbishop of Ephesus 1953-; Apostolic Nuncio, Chile 1953-59; Apostolic Del., Canada 1959-64; Apostolic Nuncio, Brazil 1964-69; cr. Cardinal April 1969; Archbishop of Cagliari 1969-73; Prefect, Sacred Congregation for the Bishops 1973-; Cardinal-Bishop of Velletri 1974; orders from Bolivia, Brazil, Chile, Colombia, Ecuador, Malta and Venezuela. *Address:* Piazza Pio XII, 10 Rome, Italy. *Telephone:* 6984217.

BAGNALL, Richard Maurice, M.B.E.; British business executive; b. 20 Nov. 1917, Ealing; s. of Francis Edward and Edith Bagnall; m. Irene Pickford 1946; one s. one d.; ed. Repton. Served in Royal Artillery, Shropshire Yeomanry (mentioned in despatches) 1939-43, Brigade Major 6th Army Group, R.A., Italy 1943-45; joined Tube Investments Ltd. 1938, Dir. 1969-, ■ Man. Dir. 1974-, Deputy Chair. 1976-; Dir. Round Oak Steel Works 1974-, Alt. Chair. 1976–; Council Mem. British Nat. Cttee., Int. Chamber of Commerce 1975-; Bronze Star (U.S.A.) 1945. *Leisure interests:* golf, gardening, photography. *Address:* Oak House Farm, Himbleton, Droitwich, Worcestershire, England (Home).

BAGNOLD, Enid (Lady Jones), C.B.E.; British playwright and novelist; b. 27 Oct. 1889, Rochester, Kent; d. of Colonel Arthur Henry Bagnold, C.B., C.M.G., and Ethel Alger; m. Sir Roderick Jones 1920 (died 1962); three s. one d.; ed. Prior's Field Godalming, Univs. of Paris, Marburg; received the Arts Theatre Prize, 1951 (for Poor Judas); Award of Merit Medal, American Acad. of Arts and Letters, 1956 (for The Chalk Garden). *Publications:* A Diary Without Dates 1916, Sailing Ships (poems) 1917, The Happy Foreigner 1920, Serena Blandish (or The Difficulty of Getting Married) 1924, Alice and Thomas and Jane 1930, National Velvet 1935 (filmed 1944), The Squire (in U.S.A. The Door of Life) 1938, The Loved and Envied 1951, Two Plays 1951, Alexander of Asia 1955, The Girl's Journey 1956, Enid Bagnold's Autobiography 1969, Four Plays 1970. Plays include Lottie Dundass (London) 1943, National Velvet (London) 1945, Poor Judas (London) 1951, Gertie (New York) 1952 (in London Little Idiot 1953), The Chalk Garden (New York 1955, London 1956) (filmed 1963), The Last Joke (London) 1960, The Chinese Prime Minister (New York 1964, London 1965), Call Me Jacky (Guildford) 1968, A Matter of Gravity (New York) 1976. *Leisure interest:* her work. *Address:* North End House, Rottingdean, Sussex, BN2 7HA, England (Home). *Telephone:* Brighton 32337.

BAGRAMIAN, Marshal Ivan Kristoforovich; Soviet army officer and politician; b. 2 Dec. 1897, Kirovoabad, Armenia; ed. Frunze Military Acad., and General Staff Acad., Soviet Army. Mem. CPSU 1941-; South West and Western Fronts 1941-43; Commdr. First Baltic Front 1943-45; Military Commdr. Baltic Military Area 1945-54; Chief Insp. U.S.S.R. Ministry of Defence 1955-56; Marshal of Soviet Union 1955-; Chief, Rear Admin. and Supply Services of Soviet Army; Deputy Minister of Defence of U.S.S.R. 1958-68; Inspector-Gen. Ministry of Defence 1968-; Head of Gen. Staff, Mil. Acad. 1956-58; Alternate mem. Central Cttee. of CPSU 1952-61, mem. 1961-; mem. Youth Affairs Comm., Soviet of Nationalities 1974-; Deputy to U.S.S.R. Supreme Soviet 1946-; Hero of Soviet Union; Order of Lenin (five times), Order of Suvorov (twice), Order of Kutuzov, Order of Red Banner (three times), Order of October Revolution, etc. *Publications include:* Fighting Traditions of the Soviet Armed Forces, Warrior City on the Dnieper 1965. *Address:* Ministry of Defence, Naberezhnaya M. Thoreza 34, Moscow, U.S.S.R.

BAGUIDY, Fern D.; Haitian lawyer and diplomatist; b. 17 June 1920, Port-au-Prince; s. of Charles Damien Baguidy and Theolene Lherisson; m. Lucille Edith Young 1959; two s. two d.; ed. Lycée Nord Alexis, Jérémie, and Lycée Alexandre Pétion, Law School, and Inst. of Ethnology, Port-au-Prince. Asst. Chief of Immigration and Emigration Service 1947-51; Pan-American World Airways 1951-57; First Sec. Haitian Del. to Org. of American States (OAS) 1957-58, Minister-Counsellor 1958-59; Minister-Counsellor, Embassy of Haiti in United States 1960, 1961-62; Chargé d'affaires of Haiti to OAS 1961, Amb. to OAS 1962, Pres. Perm. Council, OAS; mem. Int. Platform Assen.; del. of Haiti to numerous int. confs.; Grand Cross Nat. Order of Honour and Merit of Haiti; Inter-American Defense Coll. Award 1973. *Leisure interests:* writing, football, basket-ball. *Address:* Representation of Haiti at Organization of American States, 4400 Seventeenth Street, N.W., Washington, D.C., U.S.A.

BAHADUR K.C., Kaisher; Nepalese educationist and diplomatist; b. 28 Jan. 1907, Kathmandu; s. of Maj. Dan Bahadur and Kumari Khattri Chettri; m. Home Kumari 1923; one s. one d.; ed. St. Paul's Mission School, St. Xavier's Coll., Calcutta, and Univ. Coll., Calcutta. Trans. and Lecturer, Tri-Chandra Coll. 1930-32; research in MSS., inscriptions and sculpture, Nepal 1932-45; Nepalese Resident in Tibet 1946-50; Sec. Ministry of Educ., Health and Local Self Govt. 1956-61; Del. to UN 1956-57, UNESCO 1960; Amb. to People's Repub. of China, concurrently to Mongolian People's Repub. and Burma 1961-65, also to Repub. of Indonesia and Kingdom of Laos 1962-65; Chair. Nepal Public Service Comm. 1966-70; Chief Ed., Civil Service Journal of Nepal; awarded Italian Order of Merit 1953; Order of the Gurkhas (1st Class) of King Mahendra 1962. *Publications:* Countries of the World 1935, Ancient and Modern Nepal 1953, Materials for the Study of Nepalese History and Culture 1958, Judicial Customs of Nepal, Part I 1958, Part II 1965, Eroticism in Nepalese Art 1960, Introduction to Kathmandu and Patan 1961, Universal Value of Nepalese Aesthetics, Parts I and II 1961-62, transl. of Kirataruniye, Nepal and her Neighbours 1974, Nepal after the Revolution of 1950 1975, My Four Years and Three Months in the People's Republic of China and South-East Asia. *Address:* 636 Kamal Pokhari, Kathmandu, Nepal. *Telephone:* 11696.

BAHADUR, Raj, B.SC., M.A., LL.B.; Indian lawyer and politician; b. 21 Aug. 1912; s. of Sunder Lal; m. Vidyawati Srivastava 1936; four s. one d.; ed. Maharaja's Coll., Jaipur, Agra Coll. and St. John's Coll. Agra. Mem. Cen. Advisory Cttee. Bharatpur State 1939-42, Municipal Comm. 1941-42; resigned from these posts in connection with "Quit India" Movement; mem. Rep. Assembly 1943; imprisoned for participation in freedom struggle 1945 and 1947; Sec. Assembly Praja Parishad Party 1943-48, Gen. Sec. Matsya Union Congress Cttee. 1948-49; Pres. Bharatpur Bar Assn. 1948-51; elected to Constituent Assembly of India 1948-50; mem. Union Parl. 1950-67, 1971-; Sec. Congress Party in Parl. 1950-52; Dep. Minister, later Minister of State for Communications 1951-56; led Indian Del. to 10th Session of Int. Civil Aviation Org., Caracas; Minister of Communications Dec. 1956-April 1957; Minister of State for Transport and Communications 1957-62; Minister of State for Transport 1962-63, Minister of Transport 1963-65, and of Civil Aviation 1965; Minister of Information and Broadcasting 1966-67; Advocate, Supreme Court of India 1967; Amb. to Nepal 1968-71; Minister of Parl. Affairs, Shipping and Transport 1971-73, of Communications 1973-74, of Tourism and Civil Aviation 1973-76; mem. Rajasthan P.C.C. and All-India Congress Cttee.; Congress Party; awarded Tamrapatra 1974. *Leisure interest:* collecting books. *Address:* Basan Gate, Bharatpur, Rajasthan, India (Home).

BAHAR, Abdul Aziz Ahmed al-, B.A.ECONS.; Kuwaiti businessman; b. 1929, Kuwait; s. of Ahmed and Aisha al-Bahar; m. Mariam Bahar 1954; two s. three d.; ed. American Univ. Beirut. Dir.-Gen. of Housing Dept., Ministry of Finance 1956-61, of Kuwait Fund for Arab Econ. Devt. 1961-62; Chair. Kuwait Nat. Industries 1963-65, Kuwait Insurance Co. 1965-67, Kuwait Foreign Trading Contracting and Investment Co. 1965-73, Commercial Bank of Kuwait 1965-78; Dir. Rifbank 1967-74; Dir. United Bank of Kuwait Ltd. 1970-75, London; Deputy Chair. Commercial Bank of Dubai 1970-78; Dir. Arab Trust Co. 1975-78; Hon. Consul, Repub. of Costa Rica; mem. Int. Banking Assen., Advisory Cttee. to American Coll. in Switzerland, Kuwait Economists Soc.; Chair. Arab European Financial Management Co., Kuwait, Trustee Kuwait Univ. 1966-70. *Leisure interests:* reading, swimming, fishing. *Address:* P.O. Box 460, Safat, Kuwait.

BAHNINI, Hadj M'Hammed, L.EN D., L. ÈS L.; Moroccan politican; b. 1914, Fez; ed. Lycée Gouraud (now Lyceé Hassan II), Rabat. Sec., Royal Palace; Magistrate, Haut Tribunal Chérifien; Instructor, Collège Impérial and Private Tutor to H.R.H. Crown Prince Moulay El Hassan, Prince Moulay Abdallah, Princess Lalla Aïcha and Princess Lalla Malika; Dir. of the Imperial Cabinet 1950-51; Del. Judge, Meknès 1951; exiled Dec. 1952-July 1954; Sec.-Gen. of the Cabinet 1955-72; Minister of Justice 1958-60, Minister of Admin. Affairs 1965-70; Minister of Nat. Defence 1970-71; Minister of Justice, Sec.-Gen. of Govt. 1971-72, also Deputy Prime Minister April-Nov. 1972; Minister of State for Culture Nov. 1972-. *Address:* Ministry of Culture, Rabat, Morocco.

BAHR, Egon; German government official; b. 18 March 1922, Treffurt; m. Dorothea Bahr 1945; [illegible] s. [illegible] d.; journalist 1945-; Chief Commentator RIAS (Rundfunk im amerikanischen Sektor Berlins) 1950-60; Dir. Press and Information Office of Berlin 1960-66; promoted to rank of Amb. in diplomatic service 1967; took part in negotiations for establishment of trade representations in Prague 1967; Dir. of Planning Staff, Diplomatic Service 1967-68; Ministerial Dir. 1968-69; State Sec., Bundeskanzleramt and Plenipotentiary of the Fed. Govt. in Berlin Oct. 1969-72; Fed. Minister without Portfolio attached to the Fed. Chancellor's Office 1972-74, for Overseas Devt. Aid (Econ. Co-operation) 1974-76; Sec.-Gen. SDP 1976-. *Address:* Ollenhauerstr. 1, 5300 Bonn 1, Federal Republic of Germany. *Telephone:* 02221-5321.

BAHRAMY, Bahram, PH.D.; Iranian diplomatist; b. 1924, Teheran; s. of Fazlullah Bahramy; m. Solange Bahramy 1961; one d.; ed. Iran and Switzerland. Ministry of Econ. 1947; Foreign Service 1954–; Dir. of Cultural Admin., then of Second Political Admin.; Dir.-Gen. of Secretariat-Gen. of Ministry of Foreign Affairs, later of Protocol Admin.; Counsellor, Embassy in London; Minister Counsellor, Berne; [illegible] Perm. Mission to UN, Econ. Congress of Muslim States; Under-Sec. Ministry of Foreign Affairs; Amb. to Egypt 1976-78; Amb. to France 1978-79. *Leisure interests:* sports, reading *Address:* c/o Ministry of Foreign Affairs, Teheran, Iran.

BAHYL, Pavol, ING.; Czechoslovak politician; b. 12 April 1928, Badín, Banská Bystrica; ed. Technical Coll., Brno. Designer, Považské Eng. Works 1948-49; Technologist, Turčianské Eng. Works 1950-59, Deputy Gen. Man. 1960-63; G[illegible] Man. Podpolianské Eng. Works 1963-69; Deputy Minister-Chair. Fed. Cttee. for Industry 1969, Vice-Chair. 1971; First Deputy Minister for Metallurgy and Eng. of C.S.S.R. 1971-73; Minister Vice-Chair. Fed. State Planning Comm. 1973; Fed. Minister of Gen. Engineering Dec. 1973-; Vice-Chair. Czechoslovak del., Intergovt. Czechoslovak-Soviet Comm. for Econ. and Scientific-Technical Co-operation; [illegible] Cen. Cttee. Communist Party of Czechoslovakia 1976-; Deputy to House of People, Fed. Ass. 1976-; Distinction for Outstanding Labour 1966. *Address:* Ministry of General Engineering, Prague, Czechoslovakia.

BAIBAKOV, Nikolay Konstantinovich; Soviet politician; b. 7 March 1911; ed. Azerbaijan Industrial Inst. Oil-mining engineer in Azerbaijan oil field 1932-37; Chief Engineer and Man. of Leninneft Oil Trust in Baku 1937; Dir. Vostokneft in Soviet East 1938-39; Dir. Cen. Management Board for oil extraction in Eastern districts of the People's Commissariat of Oil Industry 1939-40; Deputy People's Commissar of the Oil Industry to U.S.S.R. 1940-44; Minister of Oil Industry of U.S.S.R. 1944-45; Deputy to U.S.S.R. Supreme Soviet 1946-50, 1954-62, 1966-; Chair. of U.S.S.R. State Planning Cttee. 1955-57, 1965-; first Deputy Chair. of Council of Ministers of R.S.F.S.R. and Chair. of State Planning Cttee. of R.S.F.S.R. 1957; Vice-Chair. U.S.S.R. Council of Ministers 1966-; Chair. State Cttee. of the Chemical and Oil Industry 1963-64; Chair. State Cttee. of Oil Production Industry 1964-65; mem. Cen. Cttee. of CPSU 1952-61, 1966-; Order of Lenin (four times), Order of Red Banner (twice), Lenin Prize, and medals. *Address:* State Planning Committee, 4 1st Dyakovsky pereulok, Moscow, U.S.S.R.

BAILAR, Benjamin Franklin, B.A., M.B.A.; American government official; b. 21 April 1934, Champaign, Ill.; s. of Dr. John C. Bailar, Jr.; m. Anne Tveit 1958; one [illegible] one d.; ed. Univ. of Colorado and Harvard Graduate School of Business Admin. Continental Oil Co. 1959-62; American Can Co. 1962-72, Vice-Pres. 1967-72; Senior Asst. Postmaster-Gen. U.S. Postal Service 1972-74, Deputy Postmaster-Gen. 1974-75, Postmaster-Gen. 1975-78. *Address:* c/o U.S. Postal Service, 475 L'Enfant Plaza West, S.W., Washington, D.C. 20260, U.S.A.

BAILEY, Sir Harold Walter, Kt., D.PHIL., M.A., F.B.A.; British oriental scholar; b. 16 Dec. 1899, Devizes, Wilts.; s. of Frederick C. Bailey and Emma J. Reichart; ed. Univ. of West Australia and Oxford Univ. Lecturer in Iranian Studies, School of Oriental Studies, London Univ. 1929-36; Prof. of Sanskrit, Cambridge Univ. 36-67, Emeritus Prof. 1967-; Corresp. mem. Danish Acad. 1946, Norwegian Acad. 1947, Acad. of History and Antiquities, Sweden; mem. Inst. de France (Acad. des Inscriptions et Belles-lettres) 1968; Fellow, Australian Acad. of the Humanities 1970; Hon. Fellow, School of Oriental and African Studies, London 1963, St. Catherine's Coll., Oxford 1976; Hon. D.Litt. (Univ. of W. Australia, Australian Nat. Univ., Oxford Univ.). *Publications:* Zoroastrian Problems in the Ninth Century Books 1943, Khotanese Texts I-VI 1945-68, Khotanese Buddhist Texts 1951, Saka documents I-IV 1960-67, Saka Documents Text Volume 1968, Dictionary of Khotan Saka; many articles in learned periodicals. *Address:* Queens' College, Cambridge, England.

BAILEY, Norman Stanley, C.B.E., B.MUS.; British operatic and concert singer; b. 23 March 1933, Birmingham; s. of Stanley Ernest and Agnes Train (Gale) Bailey; m. Doreen Evelyn Simpson 1957; two s. one d.; ed. East Barnet Grammar School, England, Boksburg High School, South Africa, Prince Edward School, Rhodesia, Rhodes Univ., South Africa, Akad. für Musik und Darstellende Kunst, Vienna; engaged full time at Linz Landestheater, Austria 1960-63, Wuppertaler Bühnen 1963-64, Deutsche Oper [illegible] Rhein, Düsseldorf and Duisburg 1964-67, English Nat. Opera, Sadler's Wells 1967-71; freelance 1971-; debut at La Scala, Milan 1967, Royal Opera House, Covent Garden 1969, Bayreuth Festival 1969, Paris Opera 1973, Vienna State Opera 1976, Metropolitan Opera, New York 1976; *major recordings and TV films include:* Der fliegende Holländer (The Flying Dutchman), Die Meistersinger von Nürnberg (The Mastersingers of Nuremberg), Der Ring des Nibelungen (The Nibelung's Ring), Macbeth, La Traviata; Sir Charles Santley Memorial Prize 1977. *Leisure interests:* golf, chess, mem. Bahá'i World Faith. *Address:* c/o S. A. Gorlinsky Ltd., 35 Dover Street, London, W.1; 'Quarry Hanger,' White Hill, Bletchingley, Surrey RH1 4QZ, England (Home). *Telephone:* 0883 48271 (Home).

BAINBRIDGE, Kenneth Tompkins, S.M., M.A., PH.D.; American physicist; b. 27 July 1904, Coopers-town, N.Y.; s. of William Warin and Mae Tompkins Bainbridge; m. 1st Margaret Pitkin 1931 (died 1967), [illegible] two d.; m. 2nd Helen Brinkley King 1969; ed. Massachusetts Inst. of Technology and Princeton Univ. Nat. Research Council Fellow 1929-31; Bartol Research Foundation Fellow 1931-33, Guggenheim Memorial Foundation Fellow 1933-34; Asst. Prof. Harvard Univ. 1934-38, Assoc. Prof. 1938-46, Prof. of Physics 1946, Chair. Dept. of Physics 1953-56; George Vasmer Leverett Prof. of Physics, Harvard 1961-74, Emer. Prof. 1975-; Div. Leader, Nat.

Defense Research Cttee., Radiation Laboratory 1940-43; Group and Division Leader, Los Alamos Laboratory 1943-46; awarded Levy Medal, Franklin Inst. 1933; elected American Acad. Arts and Sciences 1938, Nat. Acad. Sciences 1946; Dir. first atomic bomb "Trinity" test Feb.-Sept. 1945; awarded Presidential Certificate of Merit for war research work on radar 1948; Trustee Assoc. Univs. Inc. 1958-59. *Leisure interests:* painting, photography, travel. *Address:* Lyman Laboratory, Harvard University, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495 2868.

BAINTON, Roland Herbert; American educationist; b. 1894, England; s. of James Bainton and Charlotte Blackham; m. Ruth Woodruff 1921; two s. three d.; ed. Whitman Coll. and Yale Univ.; emingrated to U.S.A. 1902; Instructor in Church History, Yale Univ. 1920-23, Asst. Prof. 1923-32, Assoc. Prof. 1932-36, Titus Street Prof. of Ecclesiastical History 1936-62, Emer. 1962-. *Publications include:* Here I Stand (A Life of Martin Luther) 1950, The Travail of Religious Liberty 1951, The Reformation of the Sixteenth Century 1952, Hunted Heretic: A Study of Michael Servetus 1953, The Age of the Reformation 1956, What Christianity Says about Sex, Love and Marriage 1957, Yale and The Minstry 1957, Pilgrim Parson, The Life of James Herbert Bainton 1958, Christian Attitudes to War and Peace 1960, Collected Papers (3 vols.) 1962, 1963, 1964, Horizon History of Christianity 1964, Erasmus of Christendom 1968, Women of the Reformation (3 vols.) 1971, 1973, 1977, Behold the Christ (art) 1974, Yesterday, Today and What Next? Reflections on History and Hope 1978, and numerous articles. *Leisure interest:* watercolour painting. *Address:* 363 St. Ronan Street, New Haven, Conn. 06511, U.S.A. *Telephone:* 203-624-7568, 203-426-9587.

BAIRD, Charles Fitz, B.A.; American business executive; b. 4 Sept. 1922, Southampton, N.Y.; s. of George White and Julia (Fitz) Baird; m. Norma Adele White 1947; two s. two d.; ed. Middlebury Coll., New York Univ. and Harvard Univ.; served as Captain, U.S. Marine Corps Reserve 1943-46, 1951-52; with Standard Oil Co., N.J. 1948-65, Deputy European Financial Rep., London 1955-58, Asst. Treas. 1958-62, Dir. Esso Standard S.A. Française 1962-65; Asst. Sec. Financial Man., U.S. Navy 1965-67, Under-Sec. 1967-69; Vice-Pres. Finance, Int. Nickel Co. of Canada Ltd. (Inco Ltd.) 1969-72, Sr. Vice-Pres. 1972-76, Dir. 1974-; Vice-Chair. 1976-77, Pres. 1977-; Dir. Bank of Montreal; Dir. ICI Americas Inc.; mem. Pres.'s Comm. Marine Science, Eng. and Resources 1967-69, Nat. Advisory Comm. on Ocean and Atmosphere 1972-74, Board of Advisers Naval War Coll. 1970-74, Council on Foreign Relations; Chair. Board Trustees, Bucknell Univ.; Trustee Union Dime Savings Bank; Hon. LL.D.; U.S. Navy Distinguished Civilian Service Award 1969. *Address:* Inco Limited, One New York Plaza, New York, N.Y. 10004, USA; 1 First Canadian Place, Toronto, Ont. M5X IC4, Canada (Offices). *Telephone:* (416) 361-7723.

BAIRD, Joseph Edward; American banker and company executive; b. 18 March 1934, Columbus, Ohio; s. of Judge Edward Graham Baird and Alice Hoover Baird; m. Anne Marie Baird 1958; one s. two. d.; ed. Yale Univ. Chase Manhattan Bank 1959-66; Smith, Barney & Co. Inc. 1966-67; Man. Dir., Chief Exec. Western American Bank (Europe) Ltd., London 1968-73; Pres., Chief Operating Officer, Occidental Petroleum Corpn. 1973-. *Leisure interest:* sailing. *Address:* Occidental Petroleum Corporation, 10889 Wilshire Boulevard, Suite 1500, Los Angeles, Calif. 90024, U.S.A. *Telephone:* (213) 879-1700

BAIRD, Tadeusz; Polish composer; b. 26 July 1928, Grodzisk, Mazowiecki; s. of Edward and Maria Baird; m. Alina Sawicka 1976; ed. Warsaw State High School of Music. Prof. Extraordinary, Warsaw State High School of Music, Prof. 1977-, Chair. Dept. of Composition; Corresp. mem. Acad. of Arts of G.D.R. 1978; awarded State Prize for First Symphony 1951, Olympics Prize for Second Piano Sonatina 1952, City of Cologne Music Prize 1963, State Prize 1964, 1970, Prize of the Union of Polish Composers 1965, three First Prizes, Tribune Int. des Compositeurs, UNESCO, Paris for Four Essays, Variations without Theme, and Four Dialogues 1959, 1963, 1966, Sergius Koussevitzky Prize, U.S.A. 1968, City of Warsaw Music Prize 1970, Alfred Jurzykowski Foundation Award, New York 1971, Arthur Honegger Music Award 1974; Sibelius Medal; decorations include: Commdr. Cross of Polonia Restituta and Order of Banner of Labour (2nd Class). *Compositions include:* Sinfonietta 1949, Symphonies 1950, 1952, Piano Concerto 1949, Colas Breugnon (suite for string orchestra and flute) 1951, Concerto for orchestra 1953, Lyric Suite (text by J. Tuwim) 1953, Cassazione for orchestra 1956, Four Love Sonnets to Words by William Shakespeare for baritone and chamber orchestra, Four Essays for Orchestra 1957, Divertimento (for four wind instruments) 1957, String Quartet 1958 Espressioni Varianti (for violin and orchestra) 1959, Egzorta (for speaker, choir and orchestra) 1960, Erotiques (for soprano and orchestra) 1961, Study (for vocal orchestra, percussion and piano) 1961, Variations without theme (for orchestra) 1962, Epiphany Music (for orchestra) 1963, Four Dialogues for Oboe and Chamber Orchestra 1964, Tomorrow (one-act opera after Conrad), Four Songs (for mezzo-soprano and chamber orchestra) 1966, Four Novelletes (for chamber orchestra) 1967, Five Songs (for mezzo-soprano and 16 players) 1968, Simfonia breve 1968, Third Symphony 1969, Goethe-Briefe (cantata for baritone, mixed choir and orchestra) 1970, Play (for string quartet) 1971, Psychodrama (for orchestra) 1972, Concerto for Oboe and Orchestra 1973, Elegeja (for orchestra) 1973, Concerto Lugubre for Viola and Orchestra 1975, Double Concerto for Cello, Harp and Orchestra 1977, Variations en forme de rondo for string quartet 1978; chamber pieces, works for flute, oboe, piano, clarinet and bassoon, choral and solo songs, incidental music for stage and films. *Leisure interests:* theatre, history of culture, travel, cars. *Address:* c/o Union of Polish Composers, Rynek Starego Miastra 27, Warsaw; 03-904 Warsaw, Lipsaka 11m.4, Poland (Home). *Telephone:* 17-43-12.

BAKARIĆ, Vladimir, LL.D.; Yugoslav politician; b. 8 March 1912, Zagred; s. of Stjepan and Zora Bakarić; m. Marija Bakarić; one s. two d; helped organize uprising in Croatia 1941; mem. of Presidium of Anti-Fascist Council for Yugoslav Nat. Liberation; Sec. of the Central Cttee. of the League of Communists of Croatia 1944-66, Pres. Cen. Cttee. 1966-69; Pres. Govt. of the Nat. Repub. of Croatia, later Pres. of the Exec. Council 1945-53; Pres. Assembly of the Nat. Repub. of Croatia 1953; mem. of Presidency of the Socialist Fed. Repub. of Yugoslavia 1974; Vice-Pres. of Yugoslavia 1975-76; mem. Fed. Exec Council; mem. Exec. Bureau, Presidium of League of Communists of Yugoslavia; mem. Yugoslav Acad. of Sciences and Arts; Orders of Nat. Hero, Partisan Star (1st Class), Brotherhood and Unity (1st Class), Bravery Partisan Commemoration Medal. 1941. *Address:* Šetalište Karla Marxa 2, Zagreb, Yugoslavia. *Telephone:* 512-719.

BAKEMA, Jacob B.; Netherlands architect; b. 8 March 1914, Groningen; s. of Kiert Bakema and Tietsia Dijkhuis; m. S. Th. Van Borssum Waalkes 1939; two s. one d.; ed. Technical High School, Groningen, Acad. of Architecture, Amsterdam, and Technical Univ., Delft; worked in architectural and planning offices of van Eesteren 1937, van Tijen 1940-43, Rotterdam Municipal Housing Dept. 1945-48, van de Broek en Bakema 1948-; German concentration camp 1943-44; mem. Int. Congress for Modern Architecture 1947-, Council mem. 1953-59; mem. Team-X 1953-; Board mem. Architectura et Amicitia 1955-67; Leader, Architectural Class, Salzburg Int. Summer Acad. 1965-69, 1973-75; Co-Editor Forum (architectural magazine) 1959-64; Prof. of Architectural Design, Technical Univ. Delft 1963; Prof. Town Planning Acad. of Hamburg 1965-; Hon. mem. A.I.A., Zentrale Vereinigung Architekten Österreichs, Bund Deutscher Architekten, Assen. of Finnish Architects; Extraordinary mem. Akad. der Künste, Berlin; Hon. Corresp. Fellow, Assen. of Scottish Architects; Officer, Order of Orange-Nassau, Order of Crown of Belgium; Knight, Order of Netherlands Lion; Camillo Sitte Prize 1977; Hon. Cross of the State of Salzburg 1978. *Major works:* Social Centre, Cinema 't Venster, Shopping Centre Lijnbaan, Rotterdam; Montessori School, Rotterdam; church in Nagele; Town Hall, Mark (Fed. Germany); housing block, Hansaviertel, Berlin; Regional Plan, North-Kennemerland (North Holland); town planning for cities of Leeuwarden, Hengelo, Eindhoven and Amsterdam; Netherlands Pavilion, Brussels Int. Exhbn. (with other); World Broadcasting Building, Hilversum; "Pampus" plan for extension of Amsterdam; building and laboratories for Technical Univ., Delft; Netherlands Pavilion, Osaka Exposition (with other) 1970; Het Dorp, Arnhem (village for handicapped people); AMRO Computer Centre, Amstelveen; Town Hall, Terneuzen. *Publications:* Naar eeen samenlevings-architectuur (Towards an Architecture for Society) 1963, Architektur und Städtebau (Architecture and Town Planning) 1963, Van Stoel tot Stad (From Doorstep to Town) 1964, L. C. van der Vlugt (Art and Architecture in the Netherlands Series) 1968, Team X-primer (ed. Alison Smithson) 1968, The Possible City 1968, Citizen and City in the Year 2000 1971, and numerous articles. *Leisure interest:* films. *Address:* Westzeedijk 246, 3016 AN, Rotterdam, Netherlands.

BAKER, Baron (Life Peer), cr. 1977, of Windrush in the County of Gloucestershire; **John (Fleetwood) Baker,** Kt., O.B.E., F.R.S., M.A., SC.D., D.SC., D.ENG., LL.D., F.INST.C.E., F.I.STRUCT.E.; British engineer; b. 19 March 1901, Wallasey, Cheshire; s. of J. W. Baker and Emily Fleetwood; m. Fiona Mary MacAlister Walker 1928; two d.; ed. Rossall School and Clare Coll., Cambridge. Tech. Asst. Royal Airship Words 1925; Asst. Lecturer Univ. Coll. Cardiff 1926; Scientific Asst. Building Research Station Dept. of Scientific and Industrial Research 1928; Tech. Officer to Steel Structures Research Cttee. 1931-36; Prof. of Civil Eng., Bristol Univ. 1933-43; mem.

Civil Defence Research Cttee. 1939-48; Scientific Adviser and Head of Design Section, A.R.P. Dept., Ministry of Home Security 1939-43; Fellow Clare Coll. 1943; Prof. of Mechanical Sciences and Head of Dept. of Eng., Cambridge Univ. 1943-68, Chair. Council School of Physical Sciences 1945-71; mem. Council, Inst. of Civil Engineers 1947-56, 1958-66, Vice-Pres. 1968-70; mem. of Council, British Welding Research Assn. 1946-68, Univ. Grants Cttee. 1954-64; Pres. Welding Inst. 1970-71; Pres. British Assn. for the Advancement of Science 1975-76; Dir. John Brown & Co. Ltd. 1963-71; Dir. Tech. Devt. Capital Ltd. 1963-74, I.D.C. Group Ltd., I.D.C. Project Management Consultants Ltd., Deputy Chair. I.D.C. Consultants Ltd.; Hon. F.I.Mech.E.; Hon. A.R.I.B.A.; Hon. Fellow, Welding Inst. *Publications:* Differential Equations of Engineering Science 1929, Analysis of Engineering Structures 1936, The Steel Skeleton, Vol I 1954, Vol. II, 1956, Plastic Design of Frames 1969, Enterprise Versus Bureaucracy 1978. *Address:* 100 Long Road, Cambridge England. *Telephone:* Trumpington 2152

BAKER, Carlos; American educator and writer; b. 5 May 1909; s. of Arthur E. and Edna H. Baker; m. Dorothy Scott 1932; one s. two d.; ed. Dartmouth Coll., Harvard Univ. and Princeton Univ. Teacher of English, Thornton Acad. 1933-34, Nichols School, Buffalo 1934-36; Princeton Univ. 1938-77, Prof. of English 1951-54, Woodrow Wilson Prof. of Literature 1954-77, Prof. Emer. 1977-, Dept. Chair. 1952-58; Guggenheim Fellowship 1965-66. *Publications include:* Shelley's Major Poetry 1948, Hemingway: The Writer as Artist 1952 (4th edn. 1974), A Friend in Power (novel) 1958, The Land of Rumbelow (novel) 1963, A Year and a Day (poems) 1963, Ernest Hemingway: A Life Story (biog.) 1969, The Gay Head Conspiracy (novel) 1973, The Talismans (stories) 1976. *Address:* 34 Allison Road, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 609-924-4435.

BAKER, Crowdus; American merchandising executive; b. 27 Feb. 1906, Dallas; s. of Raymond A. and Alice E. Crowdus; m. Lorena Ann Proctor 1928; one d.; ed. Terrill Prep. School, Staunton Military Acad. and Austin Coll., Texas. Sears. Roebuck & Co. 1929, Operating Supt. Mail Order Plant, Seattle 1935-39, Boston 1939-42, Philadelphia 1942-45, Gen. Man. New England Operations 1945-51, Treas. 1951-54, Dir. 1952-, Vice-Pres. and Comptroller 1954-63, Pres. 1960-67, Vice-Chair. Board 1968-72; Dir. Allstate Insurance Co., Sears Bank and Trust Co., Calcasieu Chemical Co., Bethlehem Steel Corpn.; official of several business and civic orgs.; Pres., Dir. McGraw Wildlife Foundation; Trustee, Museum of Science and Industry, Chicago; Hon. D.Iur. Austin Coll. and Villanova Univ. *Address:* 720 N. Michigan Avenue, Chicago, Ill. 60611 (Office); 2298 Drury Lane, Northfield, Ill. 60094, U.S.A. (Home).

BAKER, Field-Marshal Sir Geoffrey Harding, G.C.B., C.M.G., C.B.E., M.C.; British army officer; b. 20 June 1912, Murree, Pakistan; s. of the late Col. C. N. and Ella M. Baker; m. Valerie Lockhart 1946; two s. one d.; ed. Wellington Coll., Royal Military Acad., Woolwich; commissioned into Royal Artillery 1932; India, with 11th Field Brigade 1935; "F" (Sphinx) Battery, R.H.A. 1937, Egypt 1939; Middle East Staff Coll. 1940; Brigade Maj. R.A. 4th Indian Div., Western Desert and Eritrea 1940, 1941; Instructor M.E. Staff Coll. 1942; G.S.O. 1, H.Q. Eighth Army 1942-43; C.O. 127th Field Regt., R.A., Sicily 1943; B.G.S., H.Q. 21st Army Group, North-West Europe 1944; Deputy Dir. War Office 1947; C.O. 3rd Regt., R.H.A. 1950-52; Dir. War Office 1952-54; Dir. of Operations and Chief of Staff to Gov. of Cyprus 1955-57; C.R.A., 7th Armoured and 5 Divs. B.A.O.R. 1957-59; Asst. Chief of Staff, H.Q. Northern Army Group, Germany 1959; Chief of Staff, H.Q. Southern Command 1960-61; Chief of Staff Contingencies Planning, Supreme H.Q. Allied Powers Europe 1961-63; Vice-Chief of Gen. Staff 1963-66; G.O.C.-in-C. H.Q. Southern Command 1966-68; Chief of Gen. Staff 1968-71; ADC to H.M. the Queen 1968-71; Master Gunner, St. James's Park 1970-76; Col. Commdt. Royal Horse Artillery and Royal Artillery; Dir. Grindlays Bank, Cen. London Region of Lloyds Bank, Consolidated Safeguards Ltd., Cititel Consultancy; Vice-Pres. and Chair. of Govs., Wellington Coll., mem. Council, Radley Coll.; Constable, H.M. Tower of London; Pres. Army Benevolent Fund; Pres. Officers' Assn.; U.S. Legion of Merit (Commdr.) 1946; Freeman of the City of London; Hon. Liveryman, Haberdashers Co. *Address:* c/o Lloyds Bank Ltd., 6 Pall Mall, London, S.W.1, England.

BAKER, Rt. Hon. Sir George Gillespie, Kt., P.C., O.B.E.; British judge; b. 25 April 1910, Stirling, Scotland; s. of late Capt. John Kilgour Baker and Jane Gillespie; m. Jessie R. M. Findlay 1935; three s.; ed. Strathallan School, Perthshire and Brasenose Coll., Oxford; called to the Bar, Middle Temple 1932; Bencher 1961, Reader 1975, Treas. 1976; Q.C. 1952; Recorder of Bridgenorth 1946-51, of Smethwick 1951-52, of Wolverhampton 1952-61; Judge of the High Court 1961-, Presiding Judge, Wales and Chester Circuit 1970-71; Pres. Probate, Divorce and Admiralty Div. (now Family Div.) of the High Court of Justice April 1971-; First Chair. Gen. Optical Council 1959-61; Chair. Cttee. on Mechanical Recording of Court Proceedings 1964-70; Hon. Fellow of Brasenose Coll., Oxford 1967; Hon. mem. Canadian Bar Assn. 1972. *Leisure interests:* golf, fishing, philately. *Address:* Camrie, Overstream, Loudwater, Rickmansworth, Herts, England. *Telephone:* Rickmansworth 77296.

BAKER, George Pierce, A.M., PH.D.; American educationist; b. 1 Nov. 1903, Cambridge, Mass.; s. of Geo P. and Christina H. Baker; m. Ruth Bremer 1926; one s. three d.; ed. Harvard Univ. Instructor in Econs. and Tutor in Div. of Econ. History and Govt., Harvard Coll. 1928-36; Asst. Prof. of Transportation, Harvard Business School 1936-39, Assoc. Prof. 1939-46, James J. Hill Prof. 1946-63, Prof. Emer. 1970-, George Fisher Baker Prof. of Admin. 1963-70, Dean of Faculty 1962-69; mem. of Civil Aeronautics Board 1940-42, Vice-Chair. 1942; Lieut.-Col. Quartermaster Corps 1942, Col.-Gen. Staff Corps 1943-45; Dir. Office of Transport and Communications Policy, State Dept. 1945-46; U.S. mem. UN Transport and Communications Comm. 1945-46; Prof. of Int. Transport and Communications, Fletcher School of Law and Diplomacy 1946-47; mem. American Soc. Traffic and Transport, Transport Assn. of America, Pres. 1954-62, Chair. of Board 1962-68; Fellow, American Acad. of Arts and Sciences; Trustee Penn Cen. Transportation Co. 1970-74; Legion of Merit; Transport Man of Year Award; Harry E. Salzberg Medal, Syracuse Univ. 58, Seley Transport Award 1967; several hon. degrees. *Publications:* The Formation of the New England Railroad Systems 1937, Case Problems in Transportation Management (with G. E. Germane) 1957. *Address:* c/o Temple Barker and Sloane Management Consultants, 14 Walnut Street, Wellesley Hills, Mass. 02181, USA.

BAKER, Howard Henry, Jr., LL.B.; American politician and attorney; b. 15 Nov. 1925, Huntsville, Tenn.; s. of Howard H. Baker and Dora Ladd; m. Joy Dirksen 1951; one s. one d.; ed. The McCallie School, Chattanooga, Univ. of the South, Sewanee, Tennessee, Tulane Univ. of New Orleans, and Univ. of Tennessee Coll. of Law. U.S. Naval Reserve 1943-46; fmr. partner in Baker, Worthington, Barnett & Crossley, Knoxville, Tenn.; fmr. Chair. Board First Nat. Bank, Oneida, Tenn.; Senator from Tennessee Jan. 1967-; Minority leader in the Senate 1977-; Republican. *Leisure interests:* tennis, photography. *Address:* U.S. Senate, Washington, D.C. 20510 (Office); Huntsville, Tenn. 37756, U.S.A. (Home).

BAKER, Dame Janet, D.B.E.; British mezzo-soprano; b. 21 Aug. 1933, Hatfield, Yorks.; m. James Keith Shelley 1957; ed. York Coll. for Girls, Wintringham, Grimsby. Kathleen Ferrier Memorial Prize 1956; Queen's Prize 1959; Shakespeare Prize, F.v.S. Foundation of Hamburg; Hon. D.Mus. Birmingham, Hull, Leicester, London and Oxford; Hon. Fellow, St. Anne's Coll., Oxford 1975; Grand Prix, French Nat. Acad. of Lyric Recordings 1975, Leonie Sonning Prize (Denmark) 1979. *Leisure interest:* reading. *Address:* c/o Ibbs and Tillett, 124 Wigmore Street, London, W1H 0AX, England.

BAKER, Richard Edward St. Barbe, O.B.E.; British silviculturist; b. 9 Oct. 1889, Southampton; s. of John St. Barbe Baker and Charlotte Purrot; m. 1st Doreen Long 1946, 2nd Catriona Burnett 1959; one s. one d.; ed. Dean Close School, Cheltenham, Saskatchewan Univ., Gonville and Caius Coll., Cambridge, and Imperial Forestry Inst., Oxford Univ. Student, farmer and lumber camp employee, Canada 1909-13; Army Service 1914-17; Asst. Conservator of Forests, Kenya 1920-23, Nigeria 1924-29; founded Men of the Trees, Kenya 1922, Great Britain 1924, Palestine 1929, as world-wide society 1932, Junior Men of the Trees 1956, settled in New Zealand and established Commonwealth and Overseas Headquarters of Men of the Trees 1959; lectured and conducted forestry planning in U.S.A., Canada, South America; Convenor, World Forestry Charter Gatherings 1945-56; founded friends of Sahara (U.S.A. and U.K.); prepared report and launched Sahara Reclamation Programme 1963-64; Rep. Saharan countries to World Forestry Congress, Madrid 1966 and Buenos Aires 1972; Founder and Ed. Trees and Life (Journal of Men of the Trees) 1934-59; Hon. LL.D. (Univ. of Saskatchewan). *Publications:* Tree Lovers' Calendar 1929-75, Trees—Book of the Seasons 1940, Africa Drums 1942, The Redwoods 1943, 1959, I Planted Trees 1944, Green Glory—Forests of the World 1947, New Earth Charter 1949, Famous Trees 1953, Sahara Challenge 1954, Kabongo 1955, Land of Tane 1956, British Isles Section of World Geography of Forest Resources 1956, Dance of the Trees 1957, Kamiti—A Forester's Dream 1958, Horse Sense 1961, Trees of New Zealand 1965, True Book of Trees 1965, Sahara Conquest 1966, My Life—My Trees 1970, Famous Trees of Bible Lands 1974. *Leisure interests:* tree photography, gliding and flying. *Address:* c/o Naval and Military Club, 94 Piccadilly, London, W.1, England; Mt. Cook Station, Lake Tekapo, New Zealand.

BAKER, William Oliver, B.S., PH.D.; American research chemist; b. 15 July 1915, Chestertown, Md.; s. of Harold M. and Helen (Stokes) Baker; m. Frances Burrill 1941; one s.; ed. Washington Coll., Maryland, and Princeton Univ.; with Bell Telephone Labs. 1939-, in charge of polymer research and devt. 1948-51, Asst. Dir. of Chemical and Metallurgical Research 1951-54, Dir. of Research, Physical Sciences 1954-55, Vice-Pres. Research 1955-73, Pres. 1973–; mem. Nat. Acad. of Sciences, Nat. Acad. of Engineering, Inst. of Medicine, American Philosophical Soc., American Acad. of Arts and Sciences; Harvard Fellow 1937-38; Procter Fellow 1938-39; Nat. Insts. of Health Lectureship 1958; Arthur J. Schmitt Lecturer, Notre Dame 1968; Harrelson Lecturer, North Carolina State Univ. 1971; Herbert Spencer Lecturer, Univ. of Pennsylvania 1974; Charles M. Schwab Memorial Lecturer, American Iron and Steel Inst. 1976; American Soc. for Metals Distinguished Lecturer, The Metallurgical Soc. of A.I.M.E. 1976; Miles Conrad Memorial Lecturer, Nat. Fed. of Abstracting & Indexing Services 1977; named one of top ten scientists in U.S. Industry 1954; AIC Honor Scroll 1962; Perkin Medal 1963; Priestley Medal 1966; Edgar Marburg Award 1967; A.S.T.M. Award to Executives 1967; Industrial Research Institute Medal 1970; Frederik Philips Award (Inst. of Elec. and Electronics Engineers) 1972; Industrial Research Man of the Year Award 1973; Procter Prize 1973; James Madison Medal, Princeton Univ. 1975; Gold Medal, American Inst. of Chemists 1975; Mellon Inst. Award 1975; Award for Distinguished Contributions to Research Admin., Soc. of Research Administrators 1976; American Chemical Soc. Parsons Award 1976; Franklin Inst. Delmer S. Fahrney Medal 1977; J. Willard Gibbs Medal, American Chemical Soc. 1978; von Hippel Award, Materials Research Soc. 1978; and many hon. degrees. *Publications:* Rheology, Vol. III 1960, Listen to Leaders in Engineering 1965, Science and Society: A Symposium (Xerox Corpn.) 1965, Perspectives in Polymer Science 1966, Research in the Service of National Purpose 1967, Research in the Service of Man: Biomedical Knowledge, Development and Use 1967, Washington Colloquium on Science and Society, Second Series 1967, Science: The Achievement and the Promise 1968, 1942-1967, Twenty-five Years at RCA Laboratories: Materials Science and Engineering in the United States 1970, A Look At Business In 1990 . . . A Summary of The White House Conference on the Industrial World Ahead 1972, The Technological Catch and Society 1975, Annual Review of Materials Science 1976, The Random House Encyclopedia 1977, Science and Technology in America—An Assessment 1977; about 75 research papers in J. Am. Chem. Soc., J. Chem. Phys., Phys. Rev., Ind. Eng. Chem., J. Appl. Phys., etc. and holder of 13 patents. *Address:* Bell Telephone Laboratories, Murray Hill, N.J. 07974, U.S.A. (Office). *Telephone:* 201-582-3423.

BAKHIREV, Vyacheslav Vasiliyevich; Soviet engineer and politician; b. 17 Sept. 1916, Dudorovo village, Ivanovo Region; ed. Moscow State Univ. Engineer, head of dept., chief design engineer, chief engineer then dir., mechanical and machine building factory 1941-65; First Deputy Minister of Defence Industry 1965-68; Minister of Machine Building 1968-; mem. CPSU 1951-, Cen. Cttee. 1971-; Deputy, U.S.S.R. Supreme Soviet 1962-; Lenin Prize; Order of Lenin, Badge of Honour, etc. *Address:* Ministry of Machine-Building, Moscow, U.S.S.R.

BAKHRAKH, Lev Davidovich; Soviet physicist; b. 22 July 1921, Rostov-on-Don; ed. Zhukovsky Air Force Engineering Acad. Research Assoc. Inst. of Instrument-making 1945-, Radio-engineering Inst., Moscow 1947-; mem. CPSU 1947-; Corresp. mem. of U.S.S.R. Acad. of Sciences 1966-; State Prize 1951; Lenin Prize 1961. *Publications:* Works on radiophysics and radio engineering. *Address:* c/o U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

BAKHT, Sikander; Indian politician; b. 4 Aug. 1918, Delhi; ed. Delhi Univ. Mem. of Indian Nat. Congress until 1969; mem. All-India Congress Cttee. (Org.), also mem. Working Cttee. 1969-77; mem. Delhi Metropolitan Council for 10 years; detained for 18 months during emergency 1975-76; mem. for Chandri Chowk, Lok Sabha March 1977-; Minister of Works, Housing, Supply and Rehabilitation March 1977-; mem. Janata Party 1977-. *Address:* Ministry of Works, Housing Supply and Rehabilitation, New Delhi, India.

BAKKE, Hallvard, B.COMM.; Norwegian journalist and politician; b. 4 Feb. 1943, Flesberg; s. of Bjarne K. Bakke and Anne Ranvik Bakke; m. Inger Karine Skaanes 1969; one s. one d. Mem. of Bergen Municipal Council 1967-; Norwegian School of Econs. and Business Admin. 1968; Alt. Rep. to Parl. 1969-; Admin. Man. Den Nationale Scene, Bergen 1969-76; Chair. Hordaland County Org., Labour Party 1974-; Minister of Commerce and Shipping Jan. 1976-. *Address:* Ministry of Commerce and Shipping, Fr. Nansenspl. 4, Oslo 1 (Office); Kolstirusten 4, 5030 Landås, Bergen, Norway(Home). *Telephone:* 20-51-10 (Office); 05/28-37-71 (Home).

BAKKENKIST, Siebrand Cornelis; Netherlands business executive; b. 23 Sept. 1914, Amsterdam; m. Elisabeth Wegenaar; two s.; ed. Univ. of Amsterdam. Founder and Man. Bakkenkist, Spits & Co. (consultancy firm) 1942-64; mem. Board of Dirs. Zwanenberg-Organon (now part of AKZO N.V.) 1964; mem. Board of Dirs., AKZO N.V. 1967; Deputy Pres. Man. Board, AKZO N.V. 1969-; Chair. VMF-STORK; Pres. Verband von Nederlandsche Ondernemingen (Fed. of Netherlands Industry); Officer, Order or Orange-Nassau. *Address:* Herenweg 117, Breukeleveen, Netherlands. *Telephone:* 02158-1072.

BAKR, Ahmed Hassan al-; Iraqi army officer and politician; b. 1914, Tikrit; ed. teacher training coll. and Military Acad.; forced to retire from Iraq Army 1958 following participation in revolutionary activities; participated in Revolution of 14th Ramadhan and appointed Prime Minister and mem. of Council of Revolutionary Command 1963; Vice-Pres. of Iraq Nov.-Dec. 1963; participated in Revolution of July 1968; elected Pres. of Iraq and Chair. of Council of Revolutionary Command 1968-79, Prime Minister 1968-79, Minister of Defence 1973-77; promoted to rank of Field Marshal 1969. *Address:* c/o Office of the President, Baghdad, Iraq.

BAKR, El Ra'shid El Tahir; Sudanese politician; b. 1930, Karkoj; ed. Univ. of Khartoum. Fmr. advocate; imprisoned for opposition to the regime of Gen. Ibrahim Abboud 1958-64; Minister of Animal Resources and Justice 1965; Amb. to Libya 1972-74; apptd. mem. Political Bureau, Sudanese Socialist Union (SSU) and Sec. Farmers' Union in the SSU 1972; Asst. Sec.-Gen. Sectoral Orgs., SSU 1974; Speaker, People's Nat. Assembly 1974-76; Second Vice-Pres. of Sudan Aug. 1976-; Prime Minister 1976-77; Minister of Foreign Affairs Sept. 1977-. *Address:* Office of the Vice-President, Khartoum, Sudan.

BALAFREJ, Ahmed; Moroccan politican; b. 1908; ed. Univs. of Paris and Cairo. Sec.-Gen. in Istiqlal (Independence) Party 1944; later exiled by French, returned to Morocco 1955; Minister of Foreign Affairs 1955-58; Prime Minister May-Dec. 1958; Amb.-at-Large 1960-61; Deputy Prime Minister June 1961; Minister of Foreign Affairs 61-63; Personal Rep. of King with rank of Minister 1963-72. *Address:* c/o The Royal Palace Rabat, Morocco

BALAGUER, Joaquín; Dominican diplomatist and politician; b. 1 Sept. 1907, Villa Bisonó; s. of Joaquín Balaguer Lespier and Carmen Celia Ricardo Vda. Balaguer; ed. Univ. de Santo Domingo and Univ. de Paris à la Sorbonne; served Madrid 1932-35; Under-Sec. of Foreign Affairs 1936-40; Minister to Colombia 1940-46; Alt. Rep. to UN 1947; Minister of Foreign Affairs 1954-55, of Educ. and Arts 1955-57; Vice-Pres. of Dominican Repub. 1957-60, Pres. 1960, 1966-78; voluntary exile in U.S.A. 1962-65; Founder-Leader Partido Reformista 1962-. *Address:* c/o Oficina del Presidente Santo Domingo, D.N., Dominican Republic.

BALANCHINE, George; American choreographer; b. 9 Jan. 1904, St. Petersburg (now Leningrad), Russia; ed. Imperial Ballet School and Conservatoire, St. Petersburg with Ballets Russes (Diaghilev) 1924; Dir. Copenhagen Royal Theatre 1929; founder mem. Ballets Russes de Monte Carlo 1932; at Metropolitan Opera, New York 1934-37; co-founder School of American Ballet 1934; Artistic Dir., New York City Ballet Co. 1948-; *ballets include* Pastorale, Triumph of Neptune, Apollon, Bal, Cotillon, Mozartfina, Song of Norway, Agon, Monumentum pro Gesualdo, Movements, Jewels, Prodigal Son, Concerto Baracco Orpheus, Episodes, Coppelia, The Steadfast Tin Soldier, Sonatine; *choreography for films and plays include:* On Your Toes, Goldwyn Follies, the Boys from Syracuse, Cabin in the Sky, I Married an Angel, House of Flowers. *Publications:* Balanchine's Complete Stories of the Great Ballets 1954, Balanchine's Festival of Ballet 1978. *Address:* c/o School of American Ballet Inc., 155 West 65th Street, New York, N.Y. 10023, U.S.A.

BALANCY, Pierre Guy Girald, C.B.E.; Mauritian journalist and diplomatist; b. 8 April 1924, Mauritius; s. of René Balancy and Alix Herse; m. Marie-Thérèse Louis 1947; two s. three d; ed. Royal Coll., Port Louis, and Bhujoharry Coll. Mem. Mauritius Legis. Assembly 1963-68; Municipal Counsellor 1963-64; Parl. Sec., Ministry of Educ. and Cultural Affairs 1964-65; Minister of Information, Posts and Telegraphs 1965-67, of Works 1967-68; Founder and Editor-in-Chief L'Express (daily newspaper) 1963-64; Sec. Cercle Littéraire de Port Louis 1962; mem. Action Sociale 1959-60; mem. Directing Cttee. French Cultural Centre 1957-62; Editor Escales (quarterly literary review) 1954-60; Perm. Rep. of Mauritius to UN 1968-69; Amb. of Mauritius to U.S.A. July 1968-, concurrently High Commr. to Canada Jan. 1970-, also to Barbados, Jamaica, Trinidad and Tobago, Brazil and Argentina 1974-. *Leisure interests:* reading, writing. *Address:* Embassy of Mauritius, 4301 Connecticut Avenue, N.W., Washington, D.C. 20008; 3911 Bradley Lane, Chevy Chase, Md. 20015, U.S.A. (Residence). *Telephone:* 652-6351 (Residence).

BALASSA, Sándor; Hungarian composer; b. 20 Jan. 1935, Budapest; s. of János Balassa and Eszter Bora; m. Irén Balogh; one s. one d.; ed. Budapest Conservatory and Music Acad. of Budapest. Began career as a mechanic; entered Budapest Conservatory at age 17; studied composition under Endre Szervánszky at Budapest Music Acad., obtained diploma 1965; music dir. Hungarian Radio 1964-; mem. Board, Hungarian Musicians' Fed. 1972-; Erkel Prize 1972, Critics' Prize (Hungarian Radio) 1972, 1974, Listeners' Prize (Hungarian Radio) 1976, Distinction for Best Work of the Year, Paris Int. Tribune of Composers 1972, Merited Artist of the Hungarian People's Repub. 1978. *Compositions:* vocal: Legenda 1967, Antinomia 1968, Requiem for Lajos Kassák 1969, Cantata Y 1970, Motetta 1973; opera: Az ajtón kivül (The Man Outside) 1976; instrumental: Quartto per percussioni 1969, Xenia 1970, Lupercalia 1971, Tabulae 1972, Iris 1972, Chant of Glarus 1978, The Last Shepherd 1978. *Leisure interest:* nature. *Address:* Rákóczi utca 26, 2092 Budakeszi, Hungary.

BALBIN, Ricardo; Argentine politician; b. 29 July 1904; ed. Univ. Nacional de la Plata. Deputy 1931-52; imprisoned by Perón; anti-Peronist cand. for Presidency 1951; founder and Pres. Unión Cívica Radical del Pueblo (UCRP); UCRP (later UCR) cand. for Presidency 1958-62, March 1973, Sept. 1973. *Address:* 544 Calle 49, La Plata, Argentina.

BALDERSTON, C. Canby, B.S., A.M. PH.D; American banker; b. 1 Feb. 1897, Kennett Square, Pa.; ed. Westtown School, and Univ. of Pennsylvania. Asst. Prof. of Industry, Univ. of Pa. 1925-31, Prof. 1931-54; Dean, Wharton School of Finance and Commerce, Univ. of Pa. 1941-54; mem. Board of Dirs. Fed. Reserve Bank of Philadelphia 1943-53, Deputy Chair. 1949-53; Chief, War Dept., Wage Administration Agency and Wage Administration Section, H.Q. Army Service Forces 1942-45; mem. Board of Governors Fed. Reserve System 1954-65, Vice-Chair, 1955-65; Pres. Leeds and Lippincott 1950-66, Chair. 1975-76; Adjunct Prof. of Finance, American Univ. 1966-77; Pres. Temp. Investment Fund, Inc. 1973–, Short-term securities Trust 1975-, Chestnut St. Exchange Fund 1976-; official of several business and educational orgs. *Publications:* Managerial Profit-Sharing 1928, Profit-Sharing for Wage-Earners 1937, Group Incentives 1930, Executive Guidance of Industrial Relations 1935, Wage Setting 1940. *Address:* Penngrant, 749 W. Rose Tree Road, Media, Pa. 19063, U.S.A.

BALDWIN, James A.; American writer; b. 2 Aug. 1924, New York; s. of David and Berdis Emma (Jones) Baldwin; ed. DeWitt Clinton High School; first professional publ. Nation book review 1946; articles and stories in Nation, Reporter, Harper's Bazaar, Partisan Review, Commentary, Mademoiselle, The New Leader, Esquire, The New Yorker 1946; stories included in Martha Foley's Best Short Stories 1958, 1961, and O. Henry's Best Short Stories of 1959; play Amen Corner produced at Howard Univ. 1955; mem. Dramatists' Guild, New Dramatists' Cttee., Actors' Studio; Eugene F. Saxton Fellowship 1945, Rosenwald Fellowship 1948, Guggenheim Fellowship 1954, Partisan Review Fellowship 1956; Hon. D.Litt. (Hull) 1976; Nat. Inst. of Arts and Letters Award 1956; Ford Foundation Grant 1959. *Publications:* Go Tell It On The Mountain (novel) 1953, Notes of ■ Native Son (essays) 1955, Giovanni's Room (novel) 1956, Nobody knows my Name (essays) 1961, Another Country (novel) 1962, The Fire Next Time (essays) 1963, Blues for Mr. Charlie (play) 1963, (with Richard Avedon) Nothing Personal 1964, Going to Meet the Man 1965, Tell Me How Long the Train's Been Gone (novel) 1967, A Rap on Race (with Margaret Mead, q.v.) 1971, No Name in the Street 1972, If Beale Street Could Talk (novel) 1974, Little Man, Little Man 1975, The Devil Finds Work 1976, Just Above My Head (novel) 1979. *Address:* 137 West 71st Street, New York, N.Y., U.S.A.

BALEVSKI, Angel Tonchev, D.SC.; Bulgarian engineer; b. 15 April 1910, Troyan; s. of Toncho Angelov Balevsky and Penka Kalcheva Balevska; m. Laura Todorova Kamedulska 1938; one s. one d.; ed. Brno, Czechoslovakia. Prof. of Metals and Technology of Metals, Higher Inst. of Mechanical and Electrical Engineering 1945-66, Rector 1966-68; Vice-Pres. State Cttee. for Science and Technological Progress 1960-61; Dir. Inst. of Metals and Technology of Metals 1966-; mem. State Council 1971-; Corresp. mem. Bulgarian Acad. of Sciences 1952-66, mem. 1967, Pres. 1968; Hon. mem. Acad. of Science of Hungary 1970, U.S.S.R. 1971, Poland 1971, Czechoslovakia 1973, German Democratic Repub. 1974, Mongolian People's Repub. 1974, Greece 1977; Hon. mem. Polish Soc. of Theoretical and Applied Mechanics; mem. Standing Cttee. of Pugwash Movt. 1971-; Hon. D.Eng., Higher Technological School, Ilmenau (G.D.R.) 1973; Dimitrov Prize Laureate 1951, 1960; Merited Scientist 1966; People's Scientist 1971; Order of Red Banner of Labour; Order of Georgi Dimitrov 1970; Order of Cyril and Methodius (1st and 2nd Class); Gold Medal, French Soc. for the Promotion of Scientific Research and Invention Activities 1970; Special Nicholas Copernicus Medal of Poland 1973; M. V. Lomonosov Gold Medal, U.S.S.R. Acad. of Sciences 1975. *Publications:* several articles in learned journals. *Leisure interests:* history and literature. *Address:* 31 Asparouh Street, Sofia, Bulgaria. *Telephone:* 87-82-94.

BALKE, Siegfried, DR.ING.; German chemist and politician; b. 1 June 1902, Bochum; m. Anne Wagner 1927; ed. Technical Univ. of Munich. Industrial chemist 1925-53, 1963-; Fed. Minister for Posts and Telecommunications 1953-56; mem. Bundestag 1957-69; Fed. Minister for Nuclear Energy 1956-62; Pres. German Employers' Asscn. (B.D.A.) 1964-69; Hon. Prof. Munich Univ.; Dr.rer.nat. h.c., Technical Univ. of Clausthal. *Address:* Lerchenfeldstrasse 9, 8 Munich 22, Federal Republic of Germany. *Telephone:* 221174.

BALL, Alan Hugh; British business executive; b. 8 June 1924, England; s. of Sir Joseph Ball, K.B.E. and Lady Ball; m. Eleanor K. Turner 1948; two s. one d.; ed. Eton Coll.; joined Lonrho Ltd. 1947, Chair. and Joint Man. Dir. 1961-72, Exec. Deputy Chair 1972-78, Dir. 1978-. *Leisure interests:* shooting, fishing. *Address:* The Old Mill, Ramsbury, Wilts., England (Home).

BALL, Eric Glendinning, B.S., M.A., PH.D.; American university professor; b. 12 July 1904, Coventry, England; s. of C. Sturgess Ball and Nellie Glendinning; m. Grace L. Snavely 1927; ed. Haverford Coll. and Univ. of Pennsylvania. Asst., School of Medicine, Univ. of Pa., 1926-28; Nat. Research Fellow, Johns Hopkins Medical School 1929-30, Instructor in Physiological Chemistry 1930-33, Assoc. in Physiological Chemistry 1933-40; Int. Physiological Congress Fellow, Rome 1932; Guggenheim Memorial Foundation Fellow, Berlin-Dahlem 1937-38; Asst. Prof. of Biological Chem., Harvard Medical School 1940-41, Assoc. Prof. 1941-46, Prof. 1946-72, Chair. Div. of Medical Sciences 1952-68; Acting Head, Dept. of Biological Chem. 1943-46, 1958-59, Edward S. Wood Prof. of Biological Chem. 1962-72, Prof. Emer. 1972-; Independent Investigator, Marine Biological Laboratory, Woods Hole, Mass. 1971-; Guggenheim Memorial Foundation Fellow and Visiting Investigator, Scripps Clinic and Research Foundation, La Jolla, Calif. 1963-; Eli Lilly Prize in Biochemistry 1940; Fellow American Asscn. for Advancement of Science; mem. of Nat. Acad. U.S.A., Soc. of Biological Chemists, American Chemical Soc., American Acad. of Arts and Sciences, Biochemical Soc. of Great Britain, etc.; Hon. M.A. (Harvard Univ.) 1942; Hon. D.Sc. (Haverford Coll.) 1949; holder of Southern Cross, Brazil 1945, Certificates of Merit, U.S.A. 1948; mem. Editorial Board Journal of Biological Chemistry 1950-60 and Biochemical Preparations 1948-56 (Editor-in-Chief Vol. 2), Biochemistry 1960-70. *Leisure interests:* gardening, outdoor sports. *Address:* Marine Biological Laboratory, Woods Hole, Mass. 02543 (Office); P.O. Box 406, Falmouth, Mass. 02541, U.S.A. (Home). *Telephone:* 548-3705 (Office); 548-0556 (Home).

BALL, George Wildman; American lawyer and government official; b. 21 Dec. 1909; ed. Northwestern Univ. Admitted to Illinois Bar 1934, D.C. Bar 1946; law practice Chicago 1935-42, Washington 1946-61; Assoc. Gen. Counsel Lend-Lease Admin. 1942-43, Foreign Econs. Admin. 1943-44; Dir. U.S. Strategic Bombing Survey, London 1944-45; Political Adviser to Adlai Stevenson; Under-Sec. of State for Econ. Affairs Feb.-Dec. 1961; Under-Sec. of State Dec. 1961-Sept. 1966; Pres. of Board of Dirs. of Lehmann Brothers Int. Ltd. Oct. 1966-May 1968; Perm. Rep. to UN June-Sept. 1968; Senior Partner, Lehman Brothers Int. Jan.-May 1968, 1969-; Hon. LL.D. (Northwestern Univ.); Democrat. *Publications:* The Discipline of Power 1968, Diplomacy for ■ Crowded World: An American Foreign Policy 1976. *Address:* 1 William Street, New York, N.Y. 10004 (Office); 860 United Nations Plaza, New York, N.Y. 10017, U.S.A. (Home).

BALL, Lucille; American actress; b. 6 Aug. 1911, Jamestown, N.Y.; m. 1st Desi Arnaz 1940 (divorced 1960); one s. one d.; m. 2nd Gary Morton 1961. Film actress 1934-; TV actress; Pres. Desilu Productions Inc. 1962-67; Lucille Ball Productions 1967-. *Films include:* Roberta, Chatterbox, Follow the Fleet, Stage Door, Having a Wonderful Time, Affairs of Annabell, Room Service, Valley of the Sun, Seven Days Leave, DuBarry was a Lady, Best Foot Forward, Meet the People, Thousands Cheer, Without Love, Love from ■ Stranger, Her Husband's Affairs, Forever Darling, Facts of Life, Mame 1974; TV Shows: I Love Lucy 1951-60, The Lucy Show 1962-68, Here's Lucy 1968-74. *Address:* Lucille Ball Productions Inc., Universal Studios, Universal City, Calif. 91600 (Office); Roxbury Drive/Lexington Road, Beverly Hills, Calif., U.S.A. (Home).

BALL, William, A.B., M.A.; American actor and theatrical director; b. 1931, Evanston, Ill.; s. of Catherine and Russell Ball; ed. Fordham Univ. and Carnegie Inst. of Technology. Oregon Shakespearian Festival 1950-53; Antioch Shakespeare Festival 1954; Group 20

Players 1955; San Diego Shakespeare Festival 1956; Arena Stage, Washington, D.C. 1957-58; Back to Methuselah, Broadway, New York and tour 1958; Six Characters in Search of an Author, Così Fan Tutte 1959, The Inspector General 1960, Porgy and Bess 1961, Midsummer Night's Dream 1963; New York City Center Opera Co. off-Broadway: The Misanthrope, The Lady's Not for Burning, The Country Wife, Ivanov, A Month In The Country 1956-58, Under Milk Wood 1956-61, Six Characters In Search of an Author 1963, The Tempest, Stratford, Conn., Shakespeare Festival; Yeoman of the Guard (Stratford, Canada) 1964; Librettist and Dir. Natalia Petrovna (New York City Center Opera Co.) 1964; Tartuffe (Lincoln Center Repertory Co.) 1965; Founder and Gen. Dir. American Conservatory Theatre (A.C.T.) initiated at Pittsburgh Playhouse in 1965 with a 16-play double repertory theatre; resident in San Francisco 1967-; Fulbright Scholarship to Great Britain, NBC/RCA Fellowship to Carnegie Inst. of Technology, Ford Foundation Director's Grant 1959, Ford Foundation Comm. for opera libretto Natalia Petrovna. *Leisure interests:* meditation, photography, films, travel. *Address:* 450 Geary Street, San Francisco, Calif. 94102, U.S.A.

BALLADORE PALLIERI, Georgio, LL.D.; Italian lawyer; b. 1905; ed. Univ. of Turin. Lecturer, Univ. of Messina 1930, Prof. 1932; Prof., Univ. of Modena 1933, Genoa 1934, Univ. of Sacred Heart, Milan 1935; Prof., Hague Acad. of Int. Law 1935-49; Prof., Escuela de Functionarios Internacionales, Madrid 1955; now Prof. of Int. Law, Univ. of Sacred Heart, Milan; mem. Legal Advisory Council, Ministry of Foreign Affairs; Judge, European Court of Human Rights 1960-, Vice-Pres. 1971-74, Pres. 1974-. *Address:* Faculty of Law, University of the Sacred Heart, 4 Via Stefano Jacini, Milan, Italy.

BALLANTINE, Duncan Smith A.B., PH.D.; American administrator; b. 5 Nov. 1912, Garden City, N.Y.; s. of Raymond and Amy Smith Ballantine; m. 1st Margarette Torbert 1941, 2nd Saffeti Acele 1962; one s. two d.; ed. Amherst Coll. (Massachusetts), and Harvard Univ.; held various teaching appointments 1936-42; served with U.S.N.R. 1942-46; Assoc. Prof. History, Mass. Inst. Technology 1947-52; Pres. Reed Coll. 1952-55; Pres. Robert Coll. 1955-61; Research Assoc. Harvard Univ. Center for Int. Affairs 1962; Dir. Educ. Dept., Int. Bank for Reconstruction and Devt. (World Bank), then consultant to IBRD 1977-; mem. Soc. for Int. Devt., Middle East Inst.; Trustee, Robert Coll., Istanbul; Trustee, Int. Inst. of Educ. Planning; Hon. LL.D. *Publications:* U.S. Naval Logistics in the Second World War 1947. *Leisure interests:* tennis, gardening, fishing, art. *Address:* International Bank for Reconstruction & Development (World Bank), 1818 H Street, N.W., Washington, D.C. (Office); 5306 Blackistone Road, Washington, D.C. 20016, U.S.A. (Home). *Telephone:* 229-7596 (Home)

BALLANTRAE, Baron (Life Peer), cr. 72 of Auchairne and The Bay of Islands; **Bernard Edward Fergusson,** K.T., G.C.M.G., G.C.V.O., D.S.O., O.B.E.; formerly Governor-General New Zealand, British army officer and author; b. 6 May 1911, London; s. of Gen. Sir Charles Fergusson, Bart. and Lady ALice Boyle; m. Laura Margaret Grenfell 1950; one s.; ed. Eton Coll., Royal Military Coll. Sandhurst; joined the Black Watch 1931; served in Palestine 1937-38, in Middle East and Burma Second World War, including Wingate Expeditions into Burma 1943-44; Palestine Police 1946-47; Commanded the Black Watch 1948-51; Col. Intelligence SHAPE 1951-53; Commdr. 29 Infantry Brigade 1957-58; retd. from army 1958; Gov.-Gen. of New Zealand 1962-67; Col. the Black Watch 1969-76; Chair. British Council 1972-76; Chancellor St. Andrews Univ. 1973-; Lord High Commr. to Gen. Assembly of Church of Scotland 1973-74; Hon. degrees from Canterbury, Waikato, Strathclyde, Dundee and St. Andrews. *Publications:* Eton Portrait 1937, Beyond the Chindwin 1945, Lowland Soldier (verse) 1945, The Wild Green Earth 1946, The Black Watch and the King's Enemies 1950, Rupert of the Rhine 1952, The Rare Adventure 1954, The Watery Maze 1961, Wavell: Portrait of a Soldier 1961, Return to Burma 1963, The Trumpet in the Hall 1971, Captain John Niven 1972, Hubble-Bubble (verse) 1978, Travel Warrant 1979. *Address:* Auchairne, Ballantrae, Ayrshire, Scotland. *Telephone:* 046-583 344.

BALLINGER, Violet Margaret Livingstone, B.A., M.A.; South African politician; b. 1894, Scotland; m. William G. Ballinger (*q.v.*); ed. Holy Rosary Convent (Port Elizabeth), Huguenot Coll. (Wellington), Rhodes Univ. (Grahamstown) and Somerville Coll., Oxford. Settled in South Africa 1904; elected to Union Parl. 1937, returned unopposed 1942, re-elected 1948, returned unopposed 1954 as Native Republic for Cape Eastern; parliamentary seat abolished by Bantu Self-Government Act 1959; mem. South African Liberal Party 1953 (1st Pres.); Dyason Memorial Lecturer, Inst. Int. Affairs, Australia 1960; Assoc. Fellow, Nuffield Coll., Oxford 1961; fmr. Senior Lecturer in History, Witwatersrand Univ.; Hon. LL.D. (Univ. of Cape Town, Rhodes Univ.). *Publications:* Influence of Holland on Africa, Britain in South Africa, Bechuanaland and Basutoland (with W. G. Ballinger), From Union to Apartheid—A Trek to Isolation 1970 and articles on race and economic problems. *Address:* 8 Firdale Road, Newlands, Cape Province, South Africa (Home).

BALLINGER, William George; South African (b. British) politician; b. 1894; m. Violet Margaret L. Ballinger (*q.v.*); ed. Glasgow Univ. and Elsinore Coll., Denmark. Town and Parish Councillor, Motherwell (Scotland) 1922-28; Adviser on African Trade Union, Industrial and Co-operative Organizations; Adviser British Workers' Del. ILO Confs. Geneva 1935 and 1936; Senator (Rep. of Transvaal and Orange Free State Africans) 1948-60; seat abolished by Bantu Self-Government Act 1960; Research student, Queen Elizabeth House, Oxford 1961; Hon. Sec. Non-European Progress Trust, Cape Town. *Publications:* Race and Economic Contacts, Britain in South Africa, Bechuanaland and Basutoland (with Margaret Ballinger). *Address:* 8 Firdale Road, Newlands, Cape Province, South Africa (Home).

BALLMER, Ray Wayne, M.SC.; American mining executive; b. 6 May 1926, Santa Rita, New Mexico; s. of Gerald Jacob and Martha (Wilhelmson) Ballmer; m. Doris Greer 1945; one s. one d.; ed. N.M. School of Mines, Massachusetts Inst. of Technology; held senior posts with Kennecott Copper Corpn., U.S.A., with responsibilities in Ariz. and Bingham Canyon, Utah operations; later Man. Dir. Bougainville Copper Ltd., responsible for design, construction and commissioning of Bougainville copper operation; now Pres. Amoco Minerals Co. *Leisure interests:* boating, golf, skiing. *Address* Amoco Minerals Company, 200 East Randolph Drive, Chicago, Ill. 60601, U.S.A. (Office).

BALMAIN, Pierre Alexandre; French couturier; b 18 May 1914, Saint-Jean de Maurienne; ed. Lycée de Chambéry and Ecole des Beaux Arts; designed for Molyneux 1934-39, Lucien Lelong 1941-45; began own business 1946; wide activity in high fashion for women, and ready-to-wear for men and women; Officier de la Légion d'honneur, etc. *Publication:* My Years and Seasons (memoirs) 1964. *Address:* 44 rue François Ier, Paris 8e, France. *Telephone:* BAL 6804.

BALOGH, Baron (Life Peer), cr. 1968, of Hampstead; **Thomas Balogh,** M.A., DR.RER.POL.; British political economist; b. 2 Nov. 1905, Budapest; s. of Emil Balogh; m. 1st Penelope Tower (widow of Oliver Gatty) 1945 (dissolved 1970), 2nd Dr. C. Storr, two s. one d.; four step d.; ed. Gymnasium, Univs. of Budapest, Berlin and Harvard. Fellow, Hungarian Coll., Berlin 1927-28; Rockefeller Fellow 1928-30; banking 1931-39; Lecturer, Balliol Coll., Oxford 1939-45, Fellow 1945-, Leverhulme Emer. Fellow 1973-74; Reader in Econs., Oxford Univ. 1960-73; Senior Research Associate, Queen Elizabeth House, Oxford 1973-; mem. Econ. and Financial Subcttee. of Labour Party Exec. Cttee. 1950-64, 1970-; Vice-Chair. Fabian Soc. 1969, Chair. 1970; Consultant or Adviser to Reserve Bank of Australia, Govts. of Malta, India, Jamaica, British Guiana, Mauritius and Algeria, FAO and UN Econ. Comms. for Latin America and Africa; Visiting Prof., Minneapolis, Madison, Harvard, Delhi and New York; Econ. Adviser to British Cabinet 1964-68 (on part-time basis Oct. 1967-68); Minister of State for Energy 1974-75; Deputy Chair. (part-time) British Nat. Oil Corpn. 1976-77, Econ. Adviser 1978-; Fellow, Woodrow Wilson Center, Washington 1976. *Publications:* Studies in Financial Organisation 1947, The Dollar Crisis 1949, Fabian Essays (Int. and Colonial), co-author The Establishment, Economic Future of Malta (with Seers) 1955, Planning and Monetary Organisation in Jamaica 1956, The Economic Development of the Mediterranean (with Ergas) 1957, Development Plans in Africa (with Ergas) 1959, Economic Policy in Underdeveloped Areas and the Price Mechanism 1962, Aspects of Development 1963, Unequal Partners 1963, Planning for Prosperity 1963, The Economics of Poverty 1966, The Limits of Economics 1969, Labour and Inflation 1970, Facts and Fancy in International Economic Relations 1973, The Irrelevance of Economics. *Leisure interests:* planting trees, conversation. *Address:* Old Bank House, 14 High Street, Hampstead, London, NW3 1PX, England (Home). *Telephone:* 01-435 9275 (Home).

BALOGUN, Kolawole, Chief **Balogun of Otan,** LL.B.; Nigerian lawyer, politician and diplomatist; b. 1926; s. of Moses and Marian Balogun; ed. Govt. Coll., Ibadan; on staff of Nigerian Advocate, later radio announcer, then Asst. Ed. West African Pilot; legal studies in London 1948-51, called to the Bar 1951; Sec. London branch National Council of Nigeria and the Cameroons (NCNC) 1951; Nat. Sec. NCNC 1951-57; mem. of Fed. Parl. 1954; Fed. Minister without Portfolio 1955, of Information 1955-58; resigned

from Govt. 1958; Nigerian Commr. in Ghana 1959-60, High Commr. 1960-61; mem. of Ministry of Foreign Affairs 1961-; Chair, Nigerian Nat. Shipping Line 1962-65; Commr. for Econ. Planning and Social Devt., Mil. Govt. of W. Nigeria 1967; Commr. for Educ. 1968-70; Chair. Sketch Group of Newspapers, Ibadan 1971. *Address:* Maye Lodge, P.O. Box 50, Osogbo, Nigeria.

BALTENSWEILER, Armin M.A.; Swiss airline executive; b. 20 April 1920, Mollis, Canton Glarus; m.; two s. one d.; ed. Eidgenössische Technische Hochschule (ETH), Zürich; joined staff of ETH Inst. for Aeronautical Engineering 1946; subsequently became research engineer, Fed. Swiss aircraft factory, Emmen; joined Swissair 1948, mem. Man. Board and Head, Planning Service 1956, Exec. Vice-Pres. 1960, Pres. Jan. 1972-. *Publications:* numerous specialized articles. *Leisure interests:* mountain climbing, skiing, hunting. *Address:* Swissair, P.O. Box 8058, Zürich-Flughafen, Switzerland (Office). *Telephone:* 01/812.12.12.

BALTHUS (Comte Balthasar Klossowski de Rola); French artist; b. 29 Feb. 1908; exhibited Galerie Pierre, Paris 1934, Pierre Matisse Gallery, New York City 1938, 1939, 1949, 1956, Moos Gallery, Geneva 1943, Wildenstein Galleries, Paris 1946, 1956, Dunn Int. Exhbn., London 1963; Retrospective Exhbn. at Tate Gallery, London 1968; Dir. Accademia di Francia, Villa Medici, Rome 61-77. *Works include:* Frescoes, Church of Beatenberg, Switzerland 1928, Costumes and Sets for Artaud's The Cenci 1935, for Così Fan Tutte, Aix-en-Provence 1950, numerous paintings. *Address:* Accademia di Francia, Villa Medici, Viale Trinità dei Monti 1, Rome 00187, Italy (Office).

BALTIMORE, David, PH.D.; American biologist; b. 7 March 1938, New York, N.Y.; s. of Mr. and Mrs. Richard Baltimore; m. Alice Huang 1968; one d.; ed. Swarthmore Coll. and Rockefeller Univ. Postdoctoral Fellow, Mass. Inst. of Technology (M.I.T.) 1963-64, Albert Einstein Coll. of Medicine, New York 1964-65; Research Assoc., Salk Inst., La Jolla, Calif. 1965-68; Assoc. Prof., M.I.T. 1968-72, Prof. of Microbiology 1972-; American Cancer Soc. Prof. of Microbiology 1973-; Eli Lilly Award in Microbiology and Immunology 1971; U.S. Steel Foundation Award in Molecular Biology 1974; Nobel Prize 1975. *Address:* Center for Cancer Research, Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); 28 Donnell Street, Cambridge, Mass. 02138, U.S.A. (Home).

BAM, Arvind Shankar, B.SC.; Indian civil servant and United Nations official; b. 12 March 1918; m. Mrinal Coomarie 1945; one s. two d.; ed. Fergusson Coll., Poona, and King's Coll., London; entered Civil Service 1941, Asst. Collector, Dharwar 1942-44; Special Officer, Civil Supplies, Darjeeling 1944-45; District Controller of Civil Supplies, Jalpaiguri 1945-46; Asst. Collector, Broach 1946-47; Under-Sec., Home Dept., Govt. of Bombay April-Aug. 1947, Deputy Sec. 1947-49; First Collector and District Magistrate, Kolhapur 1949-52; Deputy Sec. Ministry of Rehabilitation, Calcutta 1952-57; Controller for Iron and Steel 1957-61; Chair. Tea Board, Govt. of India 1961-65; Gen. Man. Indian Airlines Corpn. 1965-66, Chair. and Gen. Man. 1966-67; Resident Rep. of UN Devt. Programme in Yugoslavia 1967-74, in Liberia 1974-77; Regional Adviser, U.N. Devt. Programme, New York 1977-; Leader, Indian Steel Del. to ECAFE 1960; Leader, Indian Tea Del. to U.S., Canada, Australia, New Zealand and Singapore 1962; Knight Great Band of the Humane Order of African Redemption (Liberia) 1977. *Leisure interests:* golf, bridge. *Address:* United Nations Development Programme, 1 United Nations Plaza, New York, N.Y. 10017 (Office); The Sovereign, 425 E 58th Street, Apt. 4-H, New York, N.Y. 10022, U.S.A. (Home) *Telephone:* 212-754-4721 (Office); 212-826-2170 (Home).

BANBURY, (Frederick Harold) Frith; British theatrical director, actor and manager; b. 4 May 1912, Plymouth; s. of Rear Admiral Frederick Arthur Frith Banbury and Winifred Fink; ed. Stowe School, Oxford Univ. and Royal Acad. Dramatic Art; made first stage appearance 1933 and appeared on the London stage, in plays and on television until 1947; has since concentrated on direction; *plays directed include*: Dark Summer 1947, The Holly and the Ivy 1950, Waters of the Moon 1951, The Deep Blue Sea 1951, Morosco N.Y. 1952, A Question Of Fact 1953, Marching Song 1954, Love's Labours Lost, Old Vic. 1954, The Diary of Anne Frank 1956, A Dead Secret 1957, Flowering Cherry 1957, A Touch of the Sun 1958, The Ring of Truth 1959, The Tiger and the Horse 1960, The Wings of the Dove 1963, The Right Honourable Gentleman N.Y. 1965, Howards End 1967, Dear Octopus 1967, Enter ■ Free Man 1968, My Darling Daisy 1970, The Winslow Boy 1970, Captain Brassbound's Conversion 1971, Reunion in Vienna 1972, The Day After the Fair 1972, in U.S.A. 1973, Glasstown 1973, Ardèle 1975, Family Matter 1976, On Approval 1977, and others in New York, Paris, Tel Aviv, Toronto, Hong Kong, Johannesburg, Nairobi. *Leisure interest:* playing the piano. *Address:* St. James Terrace, Prince Albert Road, London, N.W.8, England. *Telephone:* 01-722 8481.

BANC, Iosif; Romanian politician; b. 3 March 1921, Aluniș, Mureș County; ed. Acad. of Econ. Studies, Bucharest. Mem. Romanian Communist Party 1947- (Romanian Workers' Party 1948-65); leading functions and First Sec., Oradea County Regional Cttee. 1958-61, First Sec. Mureș Autonomă Maghiară Region 1961-65, Alt. Mem. Cen. Cttee. 1955-60, Mem. Cen. Cttee. 1960-, Sec. Cen. Cttee. 1972-73, Alt. Mem. Exec. Political Cttee., Cen. Cttee. 1965-78, mem. 1978-; Vice-Chair. Council of Ministers 1969-72; First Sec. County Cttee., Mureș and Chair. County People's Council 1973-74, Sec. Cen. Cttee. 1974-; Chair. Cen. Council Workers' Control of Econ. and Social Activity and Sec. Nat. Council Socialist Unity Front 1974-; mem. Perm. Bureau 1978-. *Address:* Central Committee, Partidul Comunist Român, Bucharest, Romania.

BANCROFT, Anne; American actress; b. 17 Sept. 1931, New York; m. 2nd Mel Brooks 1964; ed. Christopher Colombus High School, New York. *Theatre:* Broadway debut in Two for the Seesaw 1958, played Anne Sullivan in The Miracle Worker 1959-60; The Devils 1965, The Little Foxes 1967, A Cry of Players 1968, Golda 1977; *Films:* The Miracle Worker, Don't Bother to Knock, Tonight We Sing, Demetrius and the Gladiators, The Pumpkin Eater, Seven Women, The Graduate 1968, Young Winston 1971, The Prisoner of Second Avenue 1974, The Hindenberg 1975, Lipstick 1976, Silent Movie 1976, The Turning Point 1977, Golda 1977. Numerous TV appearances including Mother Courage and her Children, Annie, the Woman in ■ Life of ■ Man, Jesus of Nazareth 1977. Academy Award for film The Miracle Worker 1962; Golden Globe Award 1968. *Address:* c/o Howard Rothberg Ltd., 1706 N. Doheny Drive, Los Angeles, Calif. 90069, U.S.A. (Office).

BANCROFT, Harding Foster; American newspaper executive; b. 29 Dec. 1910, New York; s. of Francis Sydney Bancroft and Beatrice F. Jordan; m. Jane Northrop 1936; two s. two d.; ed. Williams Coll. and Harvard Law School. Lawyer 1936-41; Office of Price Admin., Washington 1941-43; Lend-Lease Admin. 1943; U.S. Navy 1943-45; Chief Div. UN Political Affairs, Dept. of State 1945; U.S. Deputy Rep., UN Collective Measures Comm. 1950-53; Legal Adviser, Int. Labour Org. (ILO), Geneva 1953-56; Sec. The New York Times 1957-63, Dir. 1961-76, Exec. Vice-Pres. 1963-74, Vice-Chair. 1974-76; mem. U.S. Del. UN Gen. Assembly 1966; Dir. Gaspesia Pulp & Paper Co., Foreign Policy Assn.; Trustee, Clark Art Inst., William Coll., Carnegie Corpn. of New York, Carnegie Endowment for Int. Peace; mem. Int. Council Museum of Modern Art, Council on Foreign Relations, Century Assn.; mem. Board of Dirs. UN Assn. of the U.S.A., Greer Children's Community. *Address:* Verbank Road, Millbrook, N.Y. 12545, U.S.A. (Home). *Telephone:* 212R-H4-3485.

BANCROFT, Sir Ian Powell, G.C.B., M.A.; British civil servant; b. 23 Dec. 1922, Barrow-in-Furness, Lancs. (now Cumbria); s. of A. E. and L. Bancroft: m. Jean Swaine 1950; two s. one d.; ed. Coatham School, Balliol Coll., Oxford. Served in Rifle Brigade 1942-45; entered H.M. Treasury 1947; Private Sec. to Sir Henry Wilson Smith 1948-50, to Chancellor of the Exchequer 1953-55 to Lord Privy Seal 1955-57; Cabinet Office 1957-59; Principal Private Sec. to successive Chancellors of the Exchequer 1964-66; Under-Sec. H.M. Treasury 1966-68; Civil Service Dept. 1968-70; Deputy Sec., Dir.-Gen. of Org. and Establishments, Dept. of the Environment 1970-72; Commr. of Customs and Excise and Deputy Chair. of Board 1972-73; Perm. Sec. Civil Service Dept. 1973-75; Perm. Sec. Dept. of the Environment 1975-77; Head of Home Civil Service and Perm. Sec. Civil Service Dept. 1978-; Visiting Fellow, Nuffield Coll., Oxford 1973-. *Address:* Civil Service Department, Whitehall, London, S.W.1 (Office); 4 Melrose Road, London, S.W.18, England (Home). *Telephone:* 01-874 8020.

BANDA, Aleke Kadonaphani; Malawi journalist and politician; b. 19 Sept. 1939, Livingstone, Zambia; s. of Eliazar G. Banda and Lilian Phiri; m. Mbumba M. Kahumbe 1961; two s. one d.; ed. United Missionary School, Que Que and Inyati School, Bulawayo. Sec. Nyasaland African Contress (N.A.C.), Que Que Branch 1954; Gen. Sec. S. Rhodesia African Students Assn. 1957-59; arrested and detained in Rhodesia 1959, deported to Nyasaland; Foundermem. Malawi Congress Party (MCP), Sec.-Gen. 1959-73, mem. 1974-; Ed. Nyasaland TUC newspaper Ntendere Pa Nchito and mem. TUC Council 1959-60; Personal Political Sec. to Dr. Hastings Banda 1960-73; Sec. MCP Del. to Lancaster House Conf. resulting in self-govt. for Malawi 1960; Sec. to subsequent confs. 1960, 1962; Man. Ed. Malawi News 1959-66; Dir. Malawi Press Ltd. 1960; Dir.-Gen. Malawi Broadcasting Corpn. 1964-66; Nat. Chair. League of Malawi Youth and Commdr. Malawi Young Pioneers 1963-73; Dir.

Reserve Bank of Malawi 1965-66; Minister of Devt. and Planning 1966-67, of Econ. Affairs (incorporating Natural Resources, Trade and Industry, and Devt. and Planning), and Minister of Works and Supplies 1967-68, of Trade and Industry (incorporating Tourism, Information and Broadcasting) 1968-69, of Finance and of Information and Tourism 1969-72, of Trade, Industry and Tourism 1972-73; dismissed from Cabinet posts and party 1973, reinstated as mem. party 1974; Chair. Nat. Bank of Malawi, Commercial Bank of Malawi, Nat. Insurance Co. *Leisure interest:* tennis. *Address:* Malawi Congress Party, P.O. Box 5250, Limbe, Malawi.

BANDA, Hastings Kamuzu, PH.B., B.SC., M.B., CH.B., M.D., L.R.C.S.; Malawi doctor and politician; b. 14 May 1906; ed. mission school, Edinburgh Univ. and in U.S.A.; worked in gold mine; spent twelve years in U.S. in study and medical practice; medical practice in Willesden, England, until 1954, in Kumasi, Ghana 1954-58; returned to Nyasaland to take up leadership of Malawi Congress Party 1958-; detained during declared state of emergency March 1959-April 1960; Minister of Natural Resources, Survey and Local Govt. 1961-63, Prime Minister of Nyasaland 1963-July 1964, of Malawi July 1964-, Pres. of Repub. of Malawi July 1966- (named Pres. for Life 1971); also Minister of External Affairs, Justice, Works and Supplies, Agriculture and Natural Resources (and responsible for Defence); Chancellor, Univ. of Malawi 1965-. *Address:* Office of the President, Zomba, Malawi.

BANDA, Rupiah Bwezani, B.A.; Zambian diplomatist; b. 19 Feb. 1937, Gwanda, S. Rhodesia; s. of Sara and Bwezani Banda; m. Hope Makulu; four s.; ed. Secondary School, Munali, Zambia, Univ. of Ethiopia, Lund Univ., Sweden, Wolfson Coll., Cambridge. Rep. of United Nat. Independence Party (UNIP) in N. Europe 1960-64; First Sec. for Int. Affairs, Nat. Union of N. Rhodesia Students; Amb. to United Arab Repub. 1965-67, to U.S.A. 1967-69; Exec. Chair. Rural Devt. Corpn. 1970-71; Gen. Man. Nat. Marketing Board of Zambia 1971-74; Perm. Rep. to UN 1974-75; Minister of Foreign Affairs 1975-76; Pres. UN Council for Namibia 1974-75; Chair. Chipota Holdings, Robert Hudson Ltd., Allenwest and Chiparamba Enterprises, Wolfson Coll., Cambridge, U.K. *Leisure interests:* tennis, reading politics, football. *Telephone:* 73408 *Address:* P.O. Box R.W. 48, Lusaka, Zambia.

BANDARANAIKE, Sirimavo Ratwatte Dias; Ceylonese politician; b. 17 April 1916; ed. St. Bridget's Convent, Colombo. Widow of the late S. W. R. D. Bandaranaike (Prime Minister of Ceylon 1956-59); Pres. of Sri Lanka Freedom Party 1960-; Prime Minister, Minister of Defence and External Affairs 1960-65; mem. Senate until 1965; Leader of Opposition 1965-70; Prime Minister, Minister of Defence and Foreign Affairs, Planning, Econ. Affairs and Plan Implementation 1970-77. *Address:* Horgolla, Nittambuwa, Sri Lanka.

BANDEEN, Robert Angus, PH.D.; Canadian railway administrator; b. 29 Oct. 1930, Rodney, Ont.; s. of John Robert and Jessie Marie (Thomson) Bandeen; m. Mona Helen Blair 1958; four s.; ed. Univ. of Western Ontario and Duke Univ., U.S.A.; joined Canadian Nat. Railways 1955, Research and Devt. Dept. 1955-66, Dir. of Corporate Planning 1966-68, Vice-Pres. Corporate Planning and Finance 1968-71, Vice-Pres. Great Lakes Region, Toronto 1971-72, Exec. Vice-Pres. Finance and Admin. 1972-74, Pres. and Chief Exec. Officer 1974-. *Leisure interests:* squash, tennis, skiing. *Address:* 935 Lagauchetiere Street, W., Montreal, Quebec, H3C 3N4 (Office); 3120 Daulac Avenue, Montreal, Quebec, H3Y 2A2, Canada (Home). *Telephone:* (514) 877-3648 (Office); (514) 937-3641 (Home).

BANDEIRA DE MELLO, Lydio Machado, DR.JUR.; Brazilian university professor emeritus; b. 19 July 1901, Abaete, Minas Gerais; s. of Dr. Lydio Alerano and Adélia Machado Bandeira de Mello; m. Amália Introcaso Bandeira de Mello 1928; two s. two d.; ed. Univ. of Brazil; Prof. of Criminal Law, Univ. of Minas Gerais 1952-71, Comparative Criminal Law 1959-71, Prof. Emer. 1972-. *Publications:* O Problema do Mal 1935, A Procura de Deus 1938, Responsabilidade Penal 1941, Prova Matemática da Existência de Deus 1942, Teoria do Destino 1944, A Predestinação Para O Bem 1948, Metafísica do Número 1946, Tabu, Pecado e Crime 1949, Dezessete Aventuras no Reino de Deus 1952, O Real e o Possível 1953, Manual de Direito Penal Vols. 1-4, 1953-58, A Origem dos Sexos 1955, Filosofia do Direito 1957, Ontologia e Lógica da Contradição 1959, Metafísica do Tempo 1961, O Direito Penal Hispano-Luso Medievo 2 vols. 1961, Tratado de Direito Penal, Crime e Exclusão de Criminalidade 1962, Da Responsabilidade Penal e Da Isenção de Pena 1962, Da Capitulação dos Crimes e da Fixação das Penas 1963, Metafísica da Gravitação 1963, Memória Espaço e Tempo 2 vols. 1963, Cosmologia do Movimento 1965, Teologia Matemática 1965, Metafísica do Espaço 1966, A Pluralidade de Consciências 1967, Crítica Cosmológica de Física Quántica 1968, Fórmulas Gerais da Distribuição de Probabilidades 1968, Evangelho para Bacharéis 1969, O Criminoso, O Crime e a Pena 1970, Trabalhos de Algoritmia (Aritmética e Algebra) Superior 1971, A Existência e a Imortalidade da Alma 1972, As Credenciais da Razão 1973, Teoria Algébrica das Permutações Condicionadas 1972, Critíca do Principio de Razão Suficiente 1974, A Falibilidade da Indução 1974, A Conquista do Reino de Deus (2 vols.) 1975, O Possível Puro 1975, Tratado de Cosmologia Científicas 1976, Metafísica da Sensaçõ 1977, A Matemática do Universo e a Matemática Dos Homens 1978. *Leisure interests:* walking, cinema-going, philately. Address: Rua Rodrigues Caldas, 703 Belo Horizonte, Minas Gerais, Brazil. *Telephone:* 3370198.

BANDIO, Jean-Arthur; Central African Empire diplomatist; b. 6 June 1928, Brazzaville, Congo People's Repub.; m.; thirteen c.; ed. Ecole Normale, Mouyondzi, Congo People's Repub., Ecole Normale, St. Cloud, France, and Ecole de la France d'Outre-Mer. Headmaster Brazzaville School; District Chief and Sub-Commr. in Cen. African Empire, Dir. of Cabinet, Office of the Pres. of C.A.E.; Minister of the Interior, then of Foreign Affairs; Amb. to Italy, subsequently to Egypt; Perm. Rep. to UN 1974-78. *Address:* c/o Ministry of Foreign Affairs, Bangui, Central African Empire.

BANDZAR, Jambalyn; Mongolian diplomatist; b. 10 July 1922; ed. Mongolian State Univ., Ulan Bator. Secondary school teacher 1946-48; local govt. Posts 1948-50; First Sec., Moscow 1950-54; Head of Dept., Ministry of Foreign Affairs 1954-56; First Sec., Prague 1956-58; Head of Dept., Ministry of Foreign Affairs, and Deputy Foreign Minister 1958-60; Amb. to Hungary 1960-64; Cen. Govt. official 1964-66; Perm. Rep. of Mongolian People's Repub. to UN 1966-68; Amb. to France 1969-72, to Poland 1972-76; Deputy Foreign Minister 1976. *Address:* c/o Ministry of Foreign Affairs, Ulan Bator, Mongolia.

BANERJI, Shishir Kumar, B.A.; Indian diplomatist; b. 21 Oct. 1913, Uttarpara; s. of Mr. and Mrs. A. D. Banerji; m. Gauri Chatterjee 1939; two s. two d.; ed. Univ. of Allahabad and New Coll., Oxford; joined ICS 1937; Deputy Commr. Central Provinces 1937-46; Sec. Civil Supplies, Cen. Provs. Govt. 1946-47; First Sec., Chargé d'affaires, Teheran 1947-49; Deputy Sec. Ministry of External Affairs 1949-51; Deputy High Commr., Lahore 1951-54; Consul-Gen. San Francisco 1954-56; Chair. UN Visiting Mission to British and French Togoland 1955; Envoy to Syria 1956, Amb. 1957-58; High Commr. to Malaya 1958-59; Commr. to Singapore, Sarawak, Brunei and North Borneo 1958-59; Joint Sec., Ministry of External Affairs 1960-61; Chief of Protocol 1961-64; Chief Inspector of Indian Missions abroad 1964; Amb. to Fed. Repub. of Germany 1964-67, to Japan 1967-70; Sec. Ministry of Foreign Affairs 1970-72; Lieut. Gov. Goa 1972-78. *Leisure interests:* photography, collection of old Indian sculpture, paintings and modern art. *Address:* Cabo Raj Niwas, Caranzalem, Goa, India.

BANGERTER, Hans Ernst; Swiss sports official; b. 10 June 1924, Studen, Bienne; m. Hedy Tanner 1948; one s. two d.; ed. Technical Coll., Bienne. Asst. Sec. Int. Fed. of Association Football (FIFA), Zürich 1953-59; Sec.-Gen. European Union of Association Football (UEFA), Berne 1960-. *Leisure interests:* gardening, golf, skiing, walking, mountaineering. *Address:* UEFA, P.O. Box 16, Berne 15, Switzerland (Office); Hubelgasse 25, 3065 Bolligen, BE, Switzerland (Home). *Telephone:* 031 32 1735.

BANGURA, Samuel Lansana, B.SC.ECONS.; Sierra Leonean banker; b. 7 June 1930, Yele Northern Prov.; s. of Santigie Bangura and Haja Mbalu Koroma; m. Mariama Wurie 1958; three s. three d.; ed. Bo Govt. Secondary School, Hull Univ. and Queen's Coll., Oxford, England; worked as Asst., later District Commr., Bonthe District 1959-62; Senior Asst. Sec., Deputy Financial Sec. Ministry of Finance 1962-64; Perm. Sec., Ministry of Finance 1962-64; Perm. Sec., Ministry of Devt. 1965; Asst. to Gov., Deputy Gov., Bank of Sierra Leone 1966-70, Gov. 1970-; Chair. Board of Dirs., Nat. Devt. Bank 1970-; Dir. Sierra Leone Produce Marketing Board 1970-; Commr. of Oaths 1975-; mem. Board, Yale Secondary School; Chair. Board of Govs., Int. School 1969-; mem. of Court, Univ. of Sierra Leone 1972-; Fellow, Int. Bankers' Assn. 1971-; Officer of the Order of the Rokel 1975-. *Leisure interests:* hunting and gardening. *Address:* Bank of Sierra Leone, P.O.B. 30, Freetown (Office); Leone Lodge, Spur View, Wilberforce, Sierra Leone (Home). *Telephone:* 26490 (Office); 31561 (Home).

BANK-ANTHONY, Sir Mobolaji, K.B.E.; Nigerian business executive; b. 11 June 1907; ed. Methodist Boys' High School, Lagos, Church Missionary Society Grammar School, Lagos, Ibeju-Ode Grammar School. Postal Clerk, Nigerian Post and Telegraph Dept. 24; later built up palm oil business and after Second World War built up construction, haulage and cinema companies; fmr. Chair.

Nigerian Stock Exchange; Fellow Inst. of Directors, London. *Address:* Executive House, 2A Oil Mill Street, P.O. Box 75, Lagos, Nigeria (Office).

BANNERMAN, David Armitage, O.B.E., M.B.E., LL.D., SD.D., F.R.S.E.; Scottish ornithologist and author; b. 27 Nov. 1886, Pendleton, Lancs.; s. of David Alexander Bannerman and Edith Bannerman (née Armitage); m. 1st Muriel G. Morgan 1911 (died 1945), one s. (deceased) two d.; m. 2nd W. M. (Jane) Priestley (née Holland) 1952; ed. Wellington Coll. and Pembroke Coll., Cambridge. Zoological Dept. British Museum 1910-50; served in France, First World War Staff Officer, B.R.C.S. H.Q.; Second World War Asst. Censor; Hon. Fellow, American, Cypriot, Gambian, Spanish and French Ornithologists' Unions; Hon. Pres. Scottish Ornithologists; Vice-Pres. Royal Soc. for the Protection of Birds; Scientific Fellow, Zoological Soc. of London; Hon. Curator, Royal Scottish Museum, Edinburgh; Order of St. John; Hon. Assoc., British Museum; Gold Medallist, British Ornithological Union. *Publications:* The Canary Islands: Their History, Natural History and Scenery 1922, The Birds of Tropical West Africa (8 vols.) 1930-51, The Birds of West and Equatorial Africa (2 vols.) 1953, The Birds of the British Isles (12 vols.) 1953-64, The Birds of Cyprus (with Jane Bannerman) 1959, The Birds of the Atlantic Islands: vol. 1 (Canary Islands) 1962, vol. 2 (Madeira) 1965, vol. 3 (Azores) with Jane Bannerman 1966, vol. 4 (Cape Verde Islands) with Jane Bannerman, Handbook of the Birds of Cyprus and Migrants of the Middle East 1971, Birds of the Maltese Archipelago (with J. A. Vella-Gaffiero) 1976, and many scientific publications. *Leisure interests:* writing bird books, travel, fishing, bird-watching. *Address:* Bailiff's House, Slindon, Arundel, Sussex, England (Home). *Telephone:* Slindon 212.

BANNIKOV, Nikolay Vasiliyevich; Soviet politician; b. 1914; ed. Kuibyshev Industrial Inst. Shop Mechanic, then Man., later Chief Mechanic, then Deputy Dir. of factory, and Party Organizer of CPSU Cen. Cttee. at a Kuibyshev factory 1937-45; Party Official 1945-59; Second Sec., Karaganda Regional Cttee. of Communist Party of Kazakhstan 1959-62, First Sec. 1963-68; mem. Cen. Cttee. of C.P. of Kazakhstan 1966-; Cand. mem. of CPSU Cen. Cttee. 1966-68, mem. 1968-; First Sec. Irkutsk Regional Cttee. CPSU 1968-; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. Comm. on Construction and Industry of Bldg. Materials, Soviet of Union; mem. CPSU 1940-. *Address:* Irkutsk Regional Committee, Irkutsk, U.S.S.R.

BANNISTER, Sir Roger G., K.B.E., D.M., F.R.C.P.; British consultant physician, neurologist and athlete; b. 23 March 1929, London; s. of Ralph Bannister; m. Moyre Elver Jacobsson; two s. two d.; ed. City of Bath Boys' School, Univ. Coll. School, Exeter and Merton Colls., Oxford, St. Mary's Hosp. Medical School, London; winner, Oxford and Cambridge Mile 1947-50; Pres. Oxford Univ. Athletic Club 1948; British Mile Champion 1951, 1953, 1954; world record one mile 1954, first sub-four minute mile 1954; now Consultant Neurologist, Nat. Hosp. for Nervous Diseases, London and St. Mary's Hosp., London. *Publications:* Editor Brain's Clinical Neurology, various medical articles on physiology and neurology. *Leisure interests:* athletics, sailing. *Address:* 16 Edwardes Square, London, W.8, England. *Telephone:* 01-603 9903.

BANSAL, Ghamandi Lal, M.A., LL.B.; Indian commercial executive; b. 3 Dec. 1914, Ranikhet, U.P.; s. of Musaddi Lal; m. Mrs. Shanti Bansal 1941; three s. two d.; ed. A.V. Mission School, Ranikhet, Government Intermediate Coll., Almora, and Lucknow Univ. Fmr. Dir. State Bank of India; mem. Indian Parl. 1952-57; Sec.-Gen. Fed. of Indian Chambers of Commerce and Industry, All-India Organization of Industrial Employers, Indian Nat. Cttee. of Int. Chamber of Commerce 1954-75; Chair. Governing Body of Shri Ram Coll. of Commerce; Treas. Helen Keller Trust for the Blind, Deaf and Dumb; Vice-Pres. Indian Council of World Affairs; Chair. Nat. Cttee. for the Devt. of Backward Areas; Dir. Rohtas Industries Ltd., Dalmia Nagar, Birla Inst. of Scientific Research. *Publications:* India and Pakistan—An Analysis of Economic, Agricultural and Mineral Resources. *Leisure interest:* reading, golf. *Address:* A/37 Kailash Colony, New Delhi 110048, India. *Telephone:* 617932 and 693957 (Office); 630152 (Home).

BANZER SUÁREZ, Gen. Hugo; Bolivian army officer and politician; b. 10 May 1926, Santa Cruz; s. of César Banzer and Luisa Suárez; m. Yolanda G. Prada 1962; two s. three d.; ed. Colegio Militar, La Paz. Commdr. Bolivian 4th Cavalry Regiment; Minister of Educ. and Culture 1964-66; Mil. Attaché Washington, D.C. 1967-69; Dir. Colegio Militar 1969-71; in exile Jan.-Aug. 1971; Pres. of Bolivia 1971-78; overthrown in coup July 1978; Order of Mil. Merit (U.S.A.), and other national and foreign decorations. *Address:* c/o Oficina del Presidente, Palacio Quemado, La Paz, Bolivia.

BARAKAT, Gamal Eddin, LL.B., B.LITT.; Egyptian diplomatist; b. 18 Feb. 1921, Cairo; s. of late Mohamed Barakat; m. Elham Amber 1955; one s. two d.; ed. Helwan Secondary School, Cairo Univ., Hague Acad. of Int. Law, Oriel Coll., Oxford. Third Sec., Egyptian Embassy, London 1950-52; with Political Dept., Ministry of Foreign Affairs 1953-55; Secr., Anglo-Egyptian Treaty negotiations 1954; Consul-Gen., Aleppo, Syria 1955-58; Counsellor, Washington, D.C. 1958-60; Head of In-Service Training Dept., Ministry of Foreign Affairs 1961-63; mem. OAU Experts Cttee., Addis Ababa 1963-64; Amb. to Uganda 1964-68, also to Burundi 1968, to Finland 1968-73; Asst. to the President's Adviser on Nat. Security 1973-74; Head of Cultural Relations and Tech. Co-operation Dept., Ministry of Foreign Affairs 1975; Amb. to Iraq 1976-77; Dir. Foreign Service Inst., Ministry of Foreign Affairs 1979; Order of the Repub. 1954, 1964, Order of Merit (Egypt) 1958, 1973, Order of Merit (Syria) 1958, Order of the Lion (Finland) 1973. *Publications:* Status of Aliens in Egypt 1949, Diplomatic Terminology (in English and Arabic) 1961. *Leisure interest:* angling. *Address:* 55 Hegaz Street, Heliopolis, Cairo, Egypt. *Telephone:* 862487.

BARAM, Moshe; Israeli politician; b. 1911, Zdolvinov, Ukraine; mem. of Youth and Hechalutz movts. and Hachshara group in Ukraine; emigrated to Israel 1931; worked as a bldg. labourer, active in Hagana, mem. Socialist Youth movt.; Sec. Israel Workers' Party, Jerusalem 1942; mem. Yishuv (Reps. Assembly of Jewish Community) 1944; del. to World Zionist Congresses 1946-; mem. Israel Labour Party 1946-, Cen. Exec. Bodies 1946-; Sec.-Gen. Histadrut (Jerusalem Workers' Council) 1948; mem. Hagana HQ in Jerusalem, Emergency Comm. 1948, Jerusalem Municipal Council; Chair. Coalition Exec. 1955-59; mem. Fourth and subsequent Knessets 1959–; Chair. Labour Comm., mem. Finance Comm.; Coalition Whip in Sixth Knesset 1965; Chair. Unemployment Insurance Comm., mem. Cen. Body of Histadrut Council's Fed. of Labour; Minister of Labour 1974-77. *Address:* The Knesset, Jerusalem, Israel.

BARANOV, Vasiliy Gavrilovich, Soviet endocrinologist; b. 25 Dec. 1899, Gatchina, Leningrad Region; s. of Gavril Petrovich Baranov and Julia Ivanovna Baranova; m. Maria Mikhailovna Tushinskaya 1952; ed. Leningrad Military Medical Acad. Army therapeutist; Intern 1925-29; Senior Assoc. Inst. of Experimental Medicine 1932-40; Head of Dept., First Leningrad Medical Inst. 1938-41, 1945-46; Senior Research Assoc. 1946-54; Head of Laboratory, Inst. of Physiology 1954-, Prof. 1954; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1952-60, mem. 1960-; mem. Board U.S.S.R. Soc. of Therapeutists; Chair. All-Union Soc. of Endocrinologists, Leningrad Soc. of Endocrinologists; Orders of Lenin, Red Banner of Labour and Red Star and other decorations. *Publications:* Over 135 works on endocrinology, including pathogenesis and treatment of toxic goitre, diabetes mellitus, physiology and pathology of ageing and climax. *Leisure interests:* holidays at country house and travelling, boating, walking, thinking over scientific problems. *Address:* Pavlov Institute of Physiology, U.S.S.R. Academy of Sciences, 6 Naberezhnaya Makarova, Leningrad, U.S.S.R.

BARATA, Julio de Carvalho; Brazilian politician; b. 1905, Manaus; ed. Colégio Estanislau Kestka (São Paulo), Colégio Máximo Anchieta (Novo Friburgo), Univ. Federal do Estado do Rio de Janeiro, and Univ. do Estado da Guanabara. Dir.-Gen., Dept. of Information; Dir. Jornal do Comercio (Santos) and A Batalha (Rio de Janeiro); Vice-Pres. Tribunal Superior do Trabalho; Minister of Labour 1969-74. *Address:* c/o Ministério de Trabalho, Esplanada dos Ministérios, Bloco 10, Brasilia, D.F., Brazil.

BARBER, Baron (Life Peer), cr. 1974, of Wentbridge in West Yorkshire; **Anthony Perrinot Lysberg Barber,** P.C., T.D.; British fmr. politician; b. 4 July 1920, Hull: s. of John Barber, C.B.E., and Katy Lysberg; m. Jean Patricia Asquith 1950; two d.; ed. Retford School and Oriel Coll., Oxford. Army Service 1939-40, Royal Air Force 1940-45; mem. Parl. 1951-64, 1965-74; Parl. Private Sec., Air Ministry 1952-54; Govt. Whip 1955-57; Lord Commissioner of the Treasury 1957-58; Parl. Private Sec. to Prime Minister 1958-59; Econ. Sec. to the Treasury 1959-62, Financial Sec. to the Treasury 1962-63; Minister of Health 1963-64; Chair. Conservative Party 1967-70, Redfearn Nat. Glass 1967; Dir. British Ropes (now Bridon) 1964-70, 1974-, Chartered Bank 1966-70; Chancellor of Duchy of Lancaster June-July 1970; Chancellor of Exchequer 1970-74; Chair. Standard Chartered Bank and other banks 1974-; Hon. Fellow, Oriel Coll., Oxford 1971; Conservative. *Address:* Standard Chartered Bank Ltd., 10 Clements Lane, London, E.C.4, England.

BARBER, John Norman Romney; British business executive; b. 22 April 1919, Leigh-on-Sea, Essex; s. of George Ernest and Gladys Eleanor Barber; m. Babette Chalu 1941; one s.; Principal, Cen. Finance Dept., Ministry of Supply 1946-55; with Ford Motor

Co. Ltd. 1955-65, Dir. of Finance 1962, Founder, Chair. Ford Motor Credit Co. 1963; Dir. of Finance, AEI Ltd. 1966; Finance Dir. Leyland Motor Corpn. 1967, Dir. of Finance and Planning, British Leyland Motor Corpn. 1968, Deputy Man. Dir. 1971, Deputy Chair. 1973-74; Chair. Aberhurst Ltd., A. C. Edwards Eng. Ltd., Pullmaflex Int. Ltd. 1976-; Dir. Acrow Ltd. 1977-; Past Chair. Board of Trade Investments Grants Advisory Cttee.; fmr. mem. Royal Comm. on Medical Educ.; fmr. mem. Advisory Cttee. on Energy Conservation to Ministry of Energy; fmr. Vice-Pres., Soc. of Motor Manufacturers and Traders; Fellow, British Inst. of Management. *Leisure interests:* motor sport, photography, reading, music, forestry. *Address:* High Walls, Claremont Drive, Esher, Surrey, KT10 9LU, England (Home). *Telephone:* Esher 64575.

BARBER, Samuel, DR. MUS.; American composer; b. 9 March 1910, West Chester, Pa.; s. of S. Leroy and Marguerite (McLeod) Barber; ed. Curtis Inst. of Music, Philadelphia. *Works include:* String Quartet 1936, Symphony 1936, Adagio for Strings 1936, Essay for Orchestra 1937, Concerto for Violin and Orchestra 1940, Second Essay 1942, Capricorn Concerto 1944, 'Cello Concerto 1946, Ballet Suite, Medea 1946, Knoxville: Summer of 1915 (voice and orchestra) 1947, Piano Sonata 1949, Souvenir 1953, Prayers of Kierkegaard (for chorus, soprano and orchestra) 1954, Vanessa 1958, Die Natale 1960, Toccata Festiva for organ and orchestra 1960, Concerto for Piano and Orchestra 1962, Piano Concerto 1962, Andromaches' Farewell 1963, Antony and Cleopatra (opera) 1966, Despite and Still (song cycle) 1968, cappella choruses, Twelfth Night, To Be Sung on the Water 1969, The Lovers (Baritone, Chorus and Orchestra) 1971, Fadograph of a Yestern Scene 1971, Ballade for Piano 1972; Hon. D.Mus. (Harvard); mem. Nat. Inst. of Arts and Letters, U.S.A.; American Soc. of Composers, Authors and Publishers; Pullitzer Prize 1958, 1963. *Address:* c/o G. Schirmer Inc., 866 Third Avenue, New York, N.Y., U.S.A.

BARBIERI, H. E. Cardinal Antonio María; Uruguayan ecclesiastic; b. 12 Oct. 1892, Montevideo. Joined the Capuchin Order; ordained priest 1921; Titular Bishop of Macra 1936; Archbishop of Montevideo 1940-78; created Cardinal by Pope John XXIII Dec. 1958.
[Died 6 July 1979]

BARBIERI, Fedora; Italian singer; b. 4 June 1919; ed. Trieste High School and Conservatoire. Scholarship to Teatro Lirico, Florence 1940; debut as Fidalma in Cimarosa's The Secret Marriage, Teatro Comunale, Florence 1940; has appeared in leading roles at La Scala, Milan 1942-, Teatro Colón, Buenos Aires 1947-, Metropolitan Opera House, New York and Royal Opera House, Covent Garden, London 1950-; has also appeared at numerous important festivals and opera seasons in Italy, Germany, U.S.A., France, Spain, Portugal, Brazil, Austria, etc.; has sung leading roles in recordings of Aida, Il Trovatore, Requiem, Falstaff, Un Ballo in Maschera (Verdi), La Gioconda (Ponchielli), La Favorita and Linda di Chamonix (Donizetti), Suor Angelica (Puccini). *Address:* Viale Belfiore 9, Florence, Italy.

BARBIERI, Lázaro; Argentine university professor; b. 1911; ed. Univ. Nacional de Tucumán. Fmr. Prof. of Sociology, Univ. Nacional de Tucumán; Prof of Argentine History and Social Thought, Univ. Nacional de Tucumán; Gov. of Tucumán Province. *Publications:* La Integración de Latinoamérica—Su Problemática Sociológica, La Reforma Religiosa y la Formación de la Conciencia Moderna, Sociología de la Educación y la Problemática del Sistema Educativo. *Address:* Universidad Nacional de Tucumán, Ayacucho 482, San Miguel de Tucumán, Argentina.

BARBOSA, Mário Gibson; Brazilian diplomatist; b. 1918, Olinda, Pernambuco; ed. Faculdade de Direito de Recife. Joined diplomatic service 1940; Vice-Consul, Houston; Sec., Washington, Brussels; Minister-Counsellor, Buenos Aires; Deputy Perm. Rep. to UN 1958-62; Amb. to Austria 1962, to U.S.A. until 1969; Minister of Foreign Affairs 1969-74; Amb. to Greece 1974-77, to Italy 1977–. *Address:* Embassy of Brazil, Piazza Navona 14, Rome, Italy.

BARBOZA, Raúl; Brazilian international finance official; b. 19 Aug. 1911, Fortaleza, Ceará; ed. School of Law, Univ. Federal do Ceará. Dir.-Gen., Justice Dept., State of Ceará 1943-46; mem. Brazilian Chamber of Deputies 1946-50; Gov. of State of Ceará 1951-54; Legal Counsel, Banco do Nordeste 1954-56, Pres. 1956-68; Prof., School of Business Admin., Univ. Federal do Ceará; Exec. Dir. for Brazil and Ecuador, Inter-American Devt. Bank (IDB) 1968-75. *Publications:* several works on economics and related subjects. *Address:* c/o Ministério dos Assuntos Exteriores, Palácio do Itamaraty, Esplanada dos Ministérios, Brasília, Brazil.

BARČÁK, Andrej, ING.; Czechoslovak economist and politician; b. 19 Jan. 1920, Mlynky, Slovakia; ed. mining colls. in Sopron, Hungary, and Ostrava, worked in various mines and enterprises in Hungary 1942-47; returned to Slovakia 1947; various leading posts in industry until 1955; Ministry of Metallurgical Industry 1955-57; Deputy Minister of Metallurgical Industry and Ore Mines 1957-63; Dir. Slovak Magnesite Works, Košice 1963-69; mem. Econ. Comm. of Cen. Cttee. C.P. of Slovakia 1963-66; State Sec. Ministry of Foreign Trade Sept. 1969-Jan. 1970; Minister of Foreign Trade 1970-; mem. Legislative Council 1970-; Head of Del. to CMEA Perm. Comm. for Foreign Trade 1970-; Deputy to House of the People, Fed. Assembly 1971-; Co-Chair. Inter-Governmental Czechoslovakian-Soviet Comm. for Econ. and Scientific Co-operation 1974-; Order of Labour 1966, Gold Medal, Czechoslovakian Chamber of Commerce 1974. *Address:* Ministry of Foreign Trade, Prague 1, tř. Politických vězňů 20, Czechoslovakia.

BARCIKOWSKI, Kazimierz, D.ECON.; Polish politician; b. 22 March 1927, Zglechowo, Mińsk Mazowiecki; ed. Higher School of Social Sciences, Warsaw; during Second World War combatant in Home army; active mem. Rural Youth Union ("Wici") 1946-48; posts in Polish Youth Union, Łódź 1948-49, mem. Gen. Board 1950-56, Sec. 1956; Vice-Chair. Rural Youth Union 1957-62, subsequently Chair. 1962-65; Sub-Ed., State Publishing House "Iskry" 1954-56; mem. Polish United Workers' Party (PZPR) 1953-; Deputy Head, Organizational Dept. Cen. Cttee. PZPR 1965-1968; Ed.-in-Chief Zycie Partii (Party Life) 1965-1968; Deputy mem. Cen. Cttee. PZPR 1964-68, mem. 1968-, Sec. 1970-74, alt. mem. Politburo Dec. 1971–, First Sec. Voivodship Cttee. PZPR, Poznań 1968-70, Cracow 1977–, Deputy to Seym 1965-; Minister of Agric. and mem. Presidium of Govt. 1974-77; Order of Banner of Labour (1st and 2nd Class), Order of Builders of People's Poland 1977. *Address:* Komitet Wojewódzki PZPR, Cracow, Poland.

BARCLAY, Sir Roderick Edward, G.C.V.O., K.C.M.G.; British retired diplomatist; b. 22 Feb. 1909, Kobe, Japan; s. of J. G. and Mrs. Barclay; m. Jean Gladstone 1934; one s. three d.; ed. Harrow School and Trinity Coll., Cambridge; entered Foreign Service 1932; served Brussels, Paris and Washington; Principal Private Sec. to Sec. of State for Foreign Affairs 1949-51; Asst. Under-Sec. of State 1951, Deputy Under-Sec. of State 1953; Amb. to Denmark 1956-60; Deputy Under-Sec. of State for Foreign Affairs 1960-63; Amb. to Belgium 1963-69; Dir. Barclays Bank S.A. 1969-, Chair. 1970-74; Dir. Slough Estates Ltd. 1969-, Barclays Bank Int. Ltd. 1971-77, Banque Bruxelles Lambert 1971-77. *Publications:* Ernest Bevin and the Foreign Office 1963-69. *Leisure interests:* shooting, fishing, travel. *Address:* 75 Great White End, Latimer, Bucks., England. *Telephone:* Little Chalfont 2050.

BARCROFT, Henry, M.A., M.D., F.R.C.P., F.R.S.; British physiologist; b. 18 Oct. 1904, Cambridge; s. of Sir Joseph Barcroft and Mary A. Ball; m. Bridget M. Ramsey 1933; three s. one d.; ed. Marlborough Coll., King's Coll., Cambridge and St. Mary's Hospital London. Lecturer in Physiology, University Coll., London 1932-35; Dunville Prof. of Physiology, Queen's Univ., Belfast 1935-48; Prof. of Physiology, St. Thomas's Hospital Medical School, Univ. of London 1948-71, Emer. 1971-; Sir Henry Wellcome Trustee 1966-74; Chair. Research Defence Soc. 1969-72, Vice Pres. 1978-, Sec. 1972-77; Hon. D.Sc. (W. Australia, Queen's Univ., Belfast), Hon. M.D. (Innsbruck); Hon. mem. Soc. Française d'Angiologie. *Publications:* Sympathetic Control of Human Blood Vessels (with H. J. C. Swan) 1952; papers in Journal of Physiology and other scientific journals. *Leisure interests:* sailing, golf. *Address:* 44 Wood Lane, Highgate, London, N6 5UB, England. *Telephone:* 01-340 2338.

BARCS, Sándor; Hungarian journalist; b. 10 Nov. 1912; s. of Sándor Barcs Sr. and M. Wack; m. 1st Maria Molnár 1945, 2nd Marta Kenéz 1962, 3rd Magdolna Szabó 1970; two s. two d.; Ed., Hungarian News Agency 1945-50, Gen. Man. 1950-; mem. Council Patriotic People's Front, Parl. and Presidential Council 1953-78; Chair. Hungarian Football Assn. 1949-63; Vice-Pres. European Football Union (UEFA) 1962-78, Acting Chair. 1972-73; mem. Council Interparliamentary Union 1963-; Chair. Nat. Fed. of Hungarian Journalists 1965-74; Labour Order of Merit, golden degree 1970; Order of the Red Banner 1972. *Leisure interests:* angling, soccer. *Address:* Hungarian News Agency (M.T.I.) Fém utca 5/7, H-1426 Budapest 1, Hungary (Office). *Telephone:* 159-490.

BARCSAY, Jenö; Hungarian artist; b. 14 Jan. 1900, Katona; s. of Boldizsár Barcsay and Irén Kabdebó; ed. Acad. of Fine Arts, Budapest; studied on state scholarship in Paris 1926-27, 1929-30, and in Italy; mem. artists' colony at Szentendre 1929-; Prof. of Anatomy and Perspective, Acad. of Fine Arts, Budapest 1945-; principal works include paintings, drawings and mosaics; numerous exhbns. in Hungary and abroad; exhibited at Venice Biennale 1964; Kossuth Prize 1953; Honoured Artist Award 1964; Gold Medal Pro Arte 1967; Eminent Artist Award 1969; Prix National, Deuxième Festival International de Peinture, Cagnes-sur-Mer, France 1970;

Banner Order of Hungarian People's Repub., 2nd degree 1975. *Publications:* Anatomy for the Artist 1953, Man and Drapery 1958, Form und Raum 1966. *Address:* H-1062 Budapest VI, Népköztásaság u. 87-89, Hungary. *Telephone:* 229-480.

BARDEEN, John, PH.D., D.SC.; American physicist; b. 23 May 1908, Wisconsin; s. of Charles Russell Bardeen and Althea Harmer; m. Jane Maxwell 1938; two s. one d.; ed. Univs. of Wisconsin and Princeton. Geophysicist with Gulf Research and Devt. Corpn. 1930-33; Junior Fellow, Harvard Univ. 1935-38; Asst. Prof. of Physics, Univ. of Minnesota 1938-41; Physicist at U.S. Naval Ordnance Laboratory 1941-45; Research Physicist, Bell Telephone Laboratory 1945-51; Prof. of Electrical Engineering and Physics, Univ of Illinois 1951; mem. President's Science Advisory Cttee. 1959-62; mem. Soc. Fellows, Harvard 1935-38, American Acad. Arts and Sciences, American Phil. Soc.; Foreign mem. Royal Soc. Great Britain, Indian Nat. Science Acad., Japan Acad.; Hon. D.Sc. (Cambridge) 1977; Fellow, American Physical Soc., Pres. 1968-69; Ballantine Medal, Franklin Inst. 1952; Buckley Prize, American Physical Soc. 1954; John Scott Medal, Philadelphia 1955; Nobel Prize for Physics for research leading to the invention of the transistor (with W. Shockley and W. H. Brattain) 1956; Fritz London Award 1962; Vincent Bendix Award 1964; Nat. Medal Science 1966; Morley Award 1968; Nobel Prize for Physics (with L.N. Cooper, q.v. and J. R. Schrieffer, q.v.) 1972; Franklin Medal 1975; Presidential Medal of Freedom 1977. *Address:* 55 Greencroft, Champaign, Ill. 61820, U.S.A. *Telephone:* 217-352-6497.

BARDINI, Adolfo, DR.ING.; Italian automobile executive; b. 9 April 1915, Genoa; s. of the late Emilio Bardini and Eugenia Baltuzzi; m. 1st Ernestina Zampaglione 1939, two d.; m. 2nd Mirella Noli Parmeggiani 1972; ed. Naples Univ. Gen. Man. Fabbrica Macchine Industriali, Naples 1952-55; Dir. and Gen. Man. Nuova San Giorgio, Genoa 1955-62; Dir. and Gen. Man. Alfa Romeo S.p.A. 1962-74; Chair. Autodelta S.p.A. 1962-74, ANFIA (Italian Assn. of Motor Vehicle Mfrs.) 1975-78, Turin Int. Motor Show 1975-78; Pres. C.L.C.A. (Comité de Liaison de la Construction Automobile pour les Pays de la Communauté Economique Européenne) 1978–. *Address:* ANFIA, Corso Galileo Ferraris 61, 10128 Turin (Office); Corso Monforte 36, 20122 Milan, Italy (Home). *telephone:* Turin 57-61 (Office); Milan 78 43 20 (Home).

BARDINI, Aleksander; Polish theatre and opera director, actor and professor; b. 17 Nov. 1913, Łódź; m.; one d.; ed. State Inst. of Theatrical Arts, Warsaw. Teacher, Warsaw State Coll. of Theatrical Arts 1950-65, Prof. 1966-; developed contemporary style of musical interpretation; State Prize 1953, Collective State Prize 1955; Knight's, Officer's and Commdr.'s Cross, Order of Polonia Restituta; Minister of Culture and Arts Prize (1st class) 1976, Gold Screen Prize (Ekran) 1977. *Productions:* operas; Jutro (Baird), Electra 1971, Boris Godunov, Otello, Cosi fan tutte; plays; Dziady (Mickiewicz), Midsummer Night's Dream, Henry IV, Measure for Measure, A Streetcar Named Desire, The Night of the Iguana, Tango (Mrożek), John Gabriel Borkman; series of TV programmes: Rendez-vous with A. Bardini. *Leisure interest:* music. *Address:* U1. Mokotowska 17 m. 21, 00-640 Warsaw, Poland. *Telephone:* 25-21-22.

BARDOT, Brigitte; French actress; b. 28 Sept. 1934; d. of Louis and Anne-Marie (Mücel) Bardot; m. 1st Roger Vadim (q.v.), 2nd Jacques Charrier, 3rd Gunther Sachs 1966 (dissolved 1969); ed. Paris Conservatoire. Stage and film career 1952-; films include Manina: la fille sans voile, Le fils de Caroline chérie, Futures vedettes, Les grandes manoeuvres, La lumière d'en face, Cette sacrée gamine, La mariée est trop belle, Et Dieu créa la femme, En effeuillant la marguerite, Une parisienne, Les bijoutiers du clair de lune, En cas de malheur, La femme et le pantin, Babette s'en va-t-en guerre, Voulez-vous danser avec moi?, La vérité, Please not now?, Le mépris, Le repos du guerrier, Une ravissante idiote, Viva Maria, A coeur joie 1967, Two weeks in September 1967, Shalako 1968, Les femmes 1969, Les novices 1970, Boulevard du rhum 1971, Les pétroleuses 1971, Don Juan 1973, L'Histoire très bonne et tres joyeuse de Colinot trousse-chemise 1973. *Address:* 65 boulevard Lannes, 75116 Paris; and La Madrague, Saint-Tropez (Var.), France.

BARENBOIM, Daniel; Israeli concert pianist and conductor; b. 15 Nov. 1942, Buenos Aires, Argentina; s. of Prof. Enrique Barenboim; m. Jacqueline du Pré (q.v.) 1967; studied piano with his father and other musical subjects with Nadia Boulanger, Edwin Fischer and Igor Markevitch. Debut in Buenos Aires at age of seven; played Bach D Minor Concerto with orchestra at Salzburg Mozarteum at age of nine; has played in Europe regularly 1954-; yearly tours of U.S.A. 1957-; has toured Japan, Australia and S. America; has played with or conducted London Philharmonic, New Philharmonia Orchestra, London Symphony Orchestra, New York Philharmonic, Philadelphia Orchestra, Israel Philharmonic, Vienna Philharmonic, Berlin Philharmonic, etc.; frequently tours with English Chamber Orchestra and with them records for E.M.I. (projects include complete Mozart Piano Concertos and late Symphonies); other recording projects include complete Beethoven Sonatas and Beethoven Concertos (with New Philharmonia Orchestra conducted by Klemperer); has appeared in series of Masterclasses on BBC television; presented Festival of Summer Music on South Bank, London 1968, 1969; leading role in Brighton Festival 1967-; appears regularly at Edinburgh Festival; conductor, Edinburgh Festival Opera 1973; Musical Dir. Orchestre de paris 1975–. *Address:* c/o Harold Holt Ltd., 134 Wigmore Street, London, W.1., England. *Telephone:* 01-935 2331.

BARGELLINI, Piero; Italian writer; b. 5 Aug. 1897. Founder Calendario dei pensieri e delle pratiche solari 1923, Frontespizio 1929; Mayor of Florence 1966-67; articles for numerous newspapers and magazines including the Corriere della Sera; Christian Democrat. *Publications include:* Scritti a maggio 1931, Fra Diavolo 1932, San Bernardino da Siena 1933, G. Carducci 1934, Architettura con fregio polemico 1935, David 1936, Città di pittori 1939, Via Larga 1941, S. Francesco 1941, Volti di pietra 1943, Caffé Michelangiolo 1944, Il Ghirlandaio del bel mondo fiorentino 1945, La fiaba pittorica di Benozzo Gozzoli 1946, Amor profano 1946, Il sogno nostalgico di Sandro Botticelli 1946, La pittura ascetica del Beato Angelico 1948, La dolce mestizia del Perugino 1950, Vedere e capire Firenze 1950, Lui 1950, Lei 1950, Pian dei Giullari (12 vols.) 1950, Nostalgico di Sandro Botticelli 1951, Chiodi solari 1952, Santa Chiara 1952, Canto alle rondini 1953, Sant' Antonino da Firenze 1954, Tivurzi 1955, Ghirlanda per Firenze 1956, In Lizza per l'arte 1957, Santi come uomini 1957, Belvedere: arte Greca, arte etrusca (2 vols.) 1957-59, I santi del giorno 1958, Il Natale nella storia, nella leggenda e nell'arte 1959, Assisi città santa 1960. *Address:* Via della Pinzochere 3, Florence, Italy.

BARGER, Thomas C.; American oil executive (retd.); b. 30 Aug. 1909, Minneapolis, Minn.; s. of Michael T. Barger and Mary M. Donahue; m. 1st Kathleen Ray 1937 (died 1971); six c.; m. 2nd Kathleen Vachreau Loeb 1972; ed. Univ. of North Dakota, U.S.A.; joined Arabian American Oil Co. (Aramco) as geologist 1937; Dir. Local Govt. Relations; Rep. to Saudi Arabian Govt.; Vice-Pres. Aramco 1958, Pres. 1959, Chief Exec. Officer 1961-69, Chair. of Board 1968-69, Corporate Dir. and Petroleum Consultant 1969-; Dir. Offshore Technology Inc., Calif. First Bank, Kratos Corpn., Northrop Corpn., W-D 40 Co.; Trustee, Univ. of San Diego, Alumni Board, Univ. of North Dakota, Board of Overseers, Univ. of Calif. at San Diego. *Publications:* Energy Policies of Arab States of Persian Gulf 1975. *Leisure interests:* archaeology, photography, water skiing, tinkering, handball, golf. *Address:* 2685 Calle del Oro, La Jolla, Calif. 92037, U.S.A. *Telephone:* 714-459-8680.

BARGHOORN, Frederick Charles, PH.D.; American university professor; b. 4 July 1911; ed. Amherst Coll. and Harvard Univ. Press Attaché, American Embassy, Moscow 1943-47; Dept. of Political Science, Yale Univ. 1947-, Prof. of Political Science 1956-. *Publications:* The Soviet Image of the United States 1950, Soviet Russian Nationalism 1956, The Soviet Cultural Offensive 1960, Soviet Foreign Propaganda 1964, Politics in the U.S.S.R. 1966. *Address:* Department of Political Science, Yale University, New Haven, Connecticut, U.S.A. (Office).

BARGMANN, Wolfgang L., DR. MED.; German anatomist; b. 27 Jan. 1906, Nuremberg; m. Charlotte Hauptfleisch 1935; two d.; ed. Frankfurt, Munich, Vienna and Berlin Univs. Privat Dozent, Zürich Univ. 1935-38; Prosector, Leipzig Univ. 1938-42; Prof. Extraordinary, Königsberg Univ. 1942-45, Göttingen 1945; Prof. Ordinary, Kiel Univ. 1946-47; Dir. Anatomical Inst, Kiel Univ. 1945-50; Rector, Kiel Univ. 1950-51, 1965-66; Vice-Pres. German Research Assn. 1955-61, mem. Wissenschaftsrat 1958-64; Pres. Anatomical Soc. 1958-61, 1975-76; mem. Royal Swedish Acad. 1953, Deutsche Akad. Naturforscher Leopoldina 1958, Norwegian Acad. 1961, Yugoslav Acad. 74, Royal Dutch Acad. 1976; Corresp. mem. Mainz Acad. 1963, Finnish Acad. 1965; Hon. mem. Japanese Anatomical Soc. 1959, Hungarian Anatomical Soc. 1968, Anatomical Soc. of Great Britain and Ireland 1971, Yugoslav Anatomical Soc. 1975, American Assn. of Anatomists 1976, Int. Soc. of Neuroendocrinologists 1976; Senator Max-Planck Gesellschaft 1966; Hon. Senator Kiel Univ., Medical Acad. of Lübeck 1976; Schleiden Medal (Leopoldina) 1967; Dr. med. vet. h.c. (Giessen) 1967; Dr. med. h.c. (Ghent) 1973; Grand Cross, Order of Merit (Fed. Repub. of Germany). *Publications:* Histologie und Mikroskopische Anatomie des Menschen (6th edn.) 1967, Das Zwischenhirn-Hypophysensystem 1954, Editor, Handbuch der Mikroskopischen Anatomie des Menschen. *Address:* Niemannsweg 81, Kiel, Federal Republic of Germany. *Telephone:* Kiel 85239.

BARING, Hon. John Francis Harcourt, M.A., F.I.B.; British merchant banker; b. 2 Nov. 1928, London; s. of 6th Baron Ashburton and Hon. Doris Mary Therese Harcourt; m. Susan Mary Renwick 1955; two s. two d.; ed. Eton Coll., Trinity Coll., Oxford. Dir. Baring Bros. & Co. Ltd. 1955-, Chair. 1974-; Dir. Royal Insurance Co. Ltd. 1964-, Deputy Chair. 1975-, Trafford Park Estates Ltd. 1964-77, Dir. Outwich Investment Trust Ltd. 1965-, Chair. 1967-, Pye Holdings Ltd. 1967-, Outwich Ltd. (Johannesburg) 1967-77; mem. British Transport Docks Board 1966-72; mem. Gen. Council of British Bankers Assn. 1975-, Vice-Pres. 1977-; mem. Pres.'s Cttee. and Gen. Council CBI 1976-; Chair. Accepting Houses Cttee. 1977-; Pres. Overseas Bankers Club 1977-78; Rhodes Trustee 1970-; mem. Council Baring Foundation 1971-; Receiver-Gen. Duchy of Cornwall 1974-; Hon. Fellow, Hertford Coll., Oxford 1976. *Address:* Baring Bros. & Co. Ltd., 88 Leadenhall Street, London, EC3A 3DT, England (Office). *Telephone:* 01-588 2830.

BARKAUSKAS, Antanas Stasevich; Soviet government official; b. 20 Jan. 1917, Paparchiai, Lithuania; m. Zoya Yarashunaite 1961; one s. one d.; ed. Higher Communist Party School, Moscow, and Acad. of Social Sciences. Mem. of Lithuanian Young Komsomol League 1940; Soviet official in Kaunas 1940-41; served in 16th Lithuanian Div. 1942-44; mem. CPSU 1942-, party official in Kaunas during post-war period; Sec. Vilnius (later Kaunas) Regional Cttee. of Lithuanian C.P. 1950-53; Teacher, Head of Dept., Kaunas Polytechnic Inst. 1953-55; Head of Dept., Cen. Cttee. of Lithuanian C.P. 1959-60, mem. Cen. Cttee. 1960-, Sec. of Cen. Cttee. 1961-75, mem. Secr. 1961-, mem. Politburo 1962-66; Deputy to Supreme Soviet of Lithuania 1959-, Chair. of Supreme Soviet 1959-; Deputy to Supreme Soviet of U.S.S.R. 1974-, Vice-Chair. of Presidium Oct. 1976-; mem. Cen. Inspection Cttee. of CPSU 1976-; Honoured Cultural Worker of Lithuanian S.S.R. 1967, Order of October Revolution 1971, Order of Red Banner of Labour 1965, 1973, Order of Red Star 1947, six medals. *Publications:* Country, Culture, Rural Life 1967, Culture and Society 1975, Lithuanian Countryside: Past, Present and Future (in English, French, German, Hungarian and Arabic) 1976. *Leisure interests:* fiction, travelling, sport. *Address:* Presidium of Lithuanian Supreme Soviet, 4 Janonis Street, Vilnius, Lithuanian S.S.R., U.S.S.R. *Telephone:* 758986.

BARKE, (James) Allen; British motor executive; b. 16 April 1903; ed. technical school. Gen. engineering 1922-32; Ford Motor Co. 1932-; Chaser, Purchase Dept. 1933-38; Buyer, Purchase Dept. 1939-47; Chief Buyer (Tractors) 1947-48; Man. Leamington Foundry 1948-53; Exec. Dir. and Gen. Man. Briggs Motor Bodies Ltd. 1953-59; Dir. Product Divs. Ford Motor Co. 1959-61; Asst. Man. Dir. 1961-62, Man. Dir. 1962-63, Chief Exec. Officer and Man. Dir. 1963-65, Vice-Chair. 1965-68; Dir. De La Rue Co. 1970-73, Falcon Engineering Co. 1973-. *Address:* Thurlestone, Mill Green, Ingatestone, Essex, England. *Telephone:* Ingatestone 2949.

BARKER, Sir (Charles Frederick) James, Kt., M.B.E.; British business executive; b. 17 Feb. 1941, Walton-on-the-Naze; s. of Charles F. J. and Ethel (née Brook) Barker; m. Thora Daphne Perry 1940 (died 1978); two s.; ed. Colchester Royal Grammar School. With L. Rose and Co. Ltd. 1934-39; army service 1939-45; rejoined L. Rose and Co. Ltd. 1948, Man. Dir. 1957; with Schweppes Ltd. 1958-69, Dir. 1962, Man. Dir. 1969, Dir. Cadbury Schweppes Ltd. 1970-71; Chair. and Chief Exec. Unigate Ltd. 1970-72, Chair. and Joint Chief Exec. 1972-74, Chair. 1974-77; Pres. Food Mfrs.' Fed. 1967-70, Dairy Trade Fed. 1973-75; Deputy Chair. CBI Overseas Cttee. 1975-76, Chair. CBI Employment Policy Cttee. 1976-77; Fellow, Inst. of Management; Croix de Guerre. *Leisure interests:* sailing, reading, my family. *Address:* 3 Lombardy Place, London, W2; New Hall, Thorpe-le-Soken, Essex, England. *Telephone:* 01-229-1536; Thorpe-le-Soken 507.

BARKER, Denis William Knighton; British oil executive; b. 1908, Barnsley, Yorks. m. Esmee D. Marsh; two d.; ed. Holgate Grammar School, Barnsley, and Sheffield Univ.; joined the British Petroleum Co. Ltd. (then Anglo-Persian Oil Co.) 1929, with assoc. companies in France 1929-40; refinery engineer, Haifa, 1940-46; in U.K. 1946-52; Man. Australian Div. Refineries Dept. BP 1952-56; took over co-ordination of Continental and Commonwealth refineries, London 1956-58; BP Rep. in New York 1958, Pres. BP (N. America) 1959-60; Asst. Gen. Man. Refineries Dept. 1960-66, Gen. Man. 1966-67, Dir BP Trading Ltd. 1967-72; a Man. Dir. The British Petroleum Co. Ltd. 1967-72. *Leisure interests:* golf, gardening. *Address:* Stable Cottage, Upper House Lane, Shamley Green, Surrey, England. (Home). *Telephone:* Cranleigh 2726. (Home).

BARKER, E. W., M.A., LL.B.; Singapore politician; b. 1921; ed. Raffles Coll., Singapore, St. Catharine's Coll., Cambridge and Inner Temple, London; practised law in Singapore 1952-64; Assemblyman in constituency of Tanglin 1963-; Speaker of Singapore Legislative Assembly 1963-64; Minister for Law 1964-65, for Law and Nat. Devt. 1965-75, for Law and Environment July 1975-. *Address:* Ministry of Law, Government Offices, St. Andrew's Road, Singapore 6.

BARKER, George Granville; British writer; b. 26 Feb. 1913, Loughton, Essex; s. of George Barker and Marion Frances Taaffe; m. Elspeth Cameron Langlands; two s. two d.; ed. Marlborough Road School, Chelsea, London. Prof. of English Literature, Imperial Tohoku Univ., Japan 1939-41; lived in America 1941-43; returned to England 1944; in Italy 1960-65; Visiting Prof. New York State Univ. 1965; Visiting Prof. of Literature, Univ. of Wis. 1971-72, Florida Int. Univ. 1974; Arts Fellow, York Univ. 1966. *Publications:* Poems 1933, Alanna Autumnal 1933, Calamiterror, Janus 1935, Lament and Triumph 1940, News of the World, The True Confession of George Barker 1950, Collected Poems 1957, Two Plays, The View from a Blind I 1962, The New Confession 1963, Dreams of Summer Night 1965, The Golden Chains 1968, Essays 1968, Essays 1969, Poems for Children 1969, To Aylsham Fair 1970, At Thurgarton Church 1970, Poems of Places and People 1971, The Alphabetical Zoo 1972, In Memory of David Archer 1973, Dialogues etc. 1976, Villa Stellar 1978. *Leisure interests:* painting, admiring architecture. *Address:* c/o Faber and Faber, 3 Queen Square, London, W.C.1 (Office); Bintry House, Itteringham, Aylsham, Norfolk, England (Home). *Telephone:* Saxthorpe 240 (Home).

BARKER, Horace Albert, PH.D., D.SC.; American professor of biochemistry; b. 29 Nov. 1907, Oakland, Calif.; s. of A. C. Barker and Nettie H. Barker; m. Margaret D. McDowell 1933; one s. two d.; ed. Stanford Univ. Nat. Research Council Fellow in Biological Sciences, Hopkins Marine Station 1933-35; Gen. Educ. Board Fellow, Technical Univ., Delft, Holland 1935-36; Instructor in Soil Microbiology, Div. of Plant Nutrition, and Junior Soil Microbiologist in Agric. Experiment Station, Univ. of Calif. 1936-40, Asst. Prof. and Assoc. Soil Microbiologist 1940-45, Assoc. Prof. and Assoc. Soil Microbiologist 1945-46, Prof. and Soil Microbiologist 1946-50, Prof. of Plant Biochemistry and Microbiologist 1950-57, Prof. of Microbial Biochemistry and Microbiologist 1957-59, Prof. of Biochemistry and Microbiologist 1959-75, Emer. Prof. 1975-; Chair. Dept. of Plant Nutrition 1949-50, Dept. of Plant Biochemistry 1950-53, Vice-Chair. Dept. of Agric. Biochemistry 1958-59, Chair. Dept. of Biochemistry 1962-64; on editorial boards of various scientific journals; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences and other socs.; numerous awards including Gowland Hopkins Medal, Biochemistry Soc., London 1967, Nat. Medal of Science 1968. *Publications:* Bacterial Fermentations 1956; over 200 papers; research into various aspects of bacterial metabolism, including the synthesis and oxidation of fatty acids, fermentation of amino acids and purines, carbohydrate transformation and methane formation; isolation, structure and function of cobamide coenzymes; bacterial enzymes. *Leisure interests:* fishing and mountaineering. *Address:* Department of Biochemistry, Biochemistry Building, University of California, Berkeley, Calif. 94720, U.S.A. (Office); 561 Santa Clara Avenue, Berkeley, Calif. 94707, U.S.A. *Telephone:* 415-642-5688 (Office).

BARKER, Sir James (*see* Barker, Sir Charles Frederic James).

BARKER, Robinson Franklin, A.B.; American glass executive; b. 20 Dec. 1913, Boston, Mass.; s. of Williston Wright Barker, M.D. and Gertrude Sherman Barker; m. Mary Lucinda Haskins 1938; one s. one d.; ed. Harvard Univ. Served U.S. Naval Reserve 1942-45; with PPG Industries Inc. 1935-; various managerial positions, then Asst. to Pres., and Gen. Man. (Planning) Glass Div. 1955-57, Vice-Pres., Gen. Man. Glass Div. 1957-62, Vice-Pres. Glass and Fiber Glass Group 1962-66, Pres. 1966-67, Chair. of Board and Chief Exec. Officer 1967-, also Dir. of Co.; Dir. PPG Industries Foundation, PPG Industries Canada Ltd., Mellon Bank N.A., Mellon Nat. Corpn., Duplate Canada Ltd., and other companies. *Leisure interests:* fishing, music. *Address:* 1 Gateway Center, Pittsburgh, Pa. 15222 (Office); 8 Woodland Road, Sewickley, Pa. 15143, U.S.A. (Home). *Telephone:* 412-434-3311 (Office); 412-741-7384 (Home).

BARKER, Sir William, K.C.M.G., O.B.E.; British diplomatist b. 19 July 1909; ed. Univs. of Liverpool and Prague. Foreign Office 1943; First Sec., Prague 1945-47, transferred Moscow 1947; Counsellor and Chargé d'Affaires, Oslo 1951-54; Consul-Gen., Boston, Mass. 1954; Counsellor, Washington 1955-60; Minister, Moscow 1960-63; Fellow, Center for Int. Affairs, Harvard Univ. 1963-64; Asst. Under-Sec. of State, Foreign Office 1965-66; Amb. to Czechoslovakia 1966-68; Prof. of Russian, Liverpool Univ. 1969-76, Emer. 1976-. *Address:* 53 Eshe Road North, Liverpool L23 8UE, England. (Home).

BAR-LEV, Lieut.-Gen. Haim; Israeli soldier; b. 1924, Austria; m.; one s. one d.; ed. Mikhev Israel Agricultural School, Columbia Univ. School of Econs. and Admin., U.S.A.; joined Palmach Units 1942; Platoon Commdr., Beith-Ha'Arava 1944; Commdr. D Co., Yesreel 1945-46; Commdr. Palmach non-commdg. officer's course and C.O. Eight Regt., Negev Brigade 1947, Operations Officer 1948; Commdr. Armoured Units 1948; Instructor and later Commdr., Bn. Commdrs. course 1949-52; Chief of Staff, Northern Command 1952-53; C.O. Givati Brigade 1954-55; Dir. G.H.Q. Training Div. 1956; Commdr. Armoured Brigade during Sinai campaign; Commdr. Armoured Corps 1957-61; made study tour of armoured corps of Western European countries and U.S.A. 1961; after obtaining M.A., Columbia Univ., visited U.S. army installations and the armies of the Philippines, Japan, Thailand and S. Vietnam; Dir. Gen. Staff (Operations) Branch 1964-66; Deputy Chief of Staff Israel Defence Forces 1967, Chief of Staff 1968-72; Minister of Commerce and Industry 1972-77. *Address:* c/o Ministry of Commerce and Industry, Tel-Aviv, Israel.

BARLOG, Boleslaw; German theatre director and producer; b. 28 March 1906, Breslau (now Wrocław); m. Herta Barlog 1939; ed. Oberrealschule, Berlin. Asst. Producer, Volksbühne, Berlin 1930-33; Asst. Dir. UFA and TERRA films 1935-39, Dir. 1939-45; Dir.-Gen. Berlin Municipal Theatres 1945-72 (Schlosspark Theatre 1945-72, Schiller Theatre 1951-72, Schiller-Theatre Workshop 1959-72); Dir.-Gen. Carl-Zuckmayer Gesellschaft 1972-; mem. Acad. of Arts, Berlin; Grand Order of Merit with Star (Fed. Germany) 1950; Ordre National de l'Art et des Lettres and other decorations and awards. *Leisure interests:* philately, travel, music. *Address:* Spindelmuehler Weg 7, 1 Berlin 45, Federal Republic of Germany. *Telephone:* 8117314.

BARLOW, Harold Everard Monteagle, B.SC., PH.D., F.R.S.; British electrical engineer; b. 15 Nov. 1899, London; s. of Leonard Barlow, M.I.E.E. and Katherine Barlow (née Monteagle); m. Janet Hastings Eastwood 1931; three s. one d.; ed. City and Guilds Engineering Coll., London, and Univ. Coll., London. Sub-Lieut. R.N.V.R. 1917-18; East Surrey Ironworks Ltd. 1923; Barlow & Young Ltd. 1923-24; Supt. Radio Dept., Royal Aircraft Establishment, Farnborough 1939-45; Academic Staff, Univ. Coll. London 1924-67; Emer. Prof. of Electrical Engineering, Univ. of London 1967-; War service 1939-45; Dir. Marconi Instrument Co. Ltd. 1967–; Chair. British Nat. Cttee. of Int. Radio Union 1967-; Chair. High Frequency Measurements Cttee, and mem. Council, British Calibration Service, Ministry of Technology (now Dept. of Trade and Industry), London 1967-; Hon. Research Fellow, Univ. Coll. London 1967-; mem. Athlone Fellowships Cttee., Board of Trade, London 1954-; Fellow Inst. of Electronic and Electrical Engineers (U.S.A.) 1956-; mem. Royal Soc./Nuffield Foundation Fellowships Cttee. 1968-, Nat. Electronics Council 1970-; Foreign mem. Polish Acad. of Sciences, Fellow, Inst. of Electrical Engineers, London, and Faraday Medallist 1967; Dellinger Gold Medal, Int. Union of Radio Science 1969; Fellow, Inst. of Mechanical Engineers, City and Guilds Inst., London; Hon. mem. Inst. of Electronic and Communications Engineers, Japan 1974; Mervin J. Kelly Award 1975; Hon. D.Sc., D.Eng. *Publications:* Microwaves and Waveguides 1950, Microwave Measurements (with A. L. Cullen) 1952, Radio Surface Waves (with J. Brown) 1961, about 50 scientific papers. *Leisure interests:* travel, walking, sailing. *Address:* 13 Hookfield, Epsom, Surrey, England. (Home). *Telephone:* Epsom 21586 (Home).

BARLOW, Horace B., M.A., M.B., B.CH., SC.D., M.D., F.R.S.; British physiologist; b. 8 Dec. 1921, Chesham Bois; s. of James A. Barlow and Emma N. Darwin; m. Ruth Salaman 1954 (divorced 1970); four d.; ed. Trinity Coll., Cambridge, Harvard Medical School and Univ. Coll. Hospital. Fellow, Trinity Coll., Cambridge 1950-53, 1973-; Fellow and Lecturer, King's Coll., and Demonsrator, Physiological Lab. 1953-64; Prof. of Physiological Optics and Physiology, Univ. of Calif., Berkeley 1964-73; Royal Soc. Research Prof., Physiological Laboratory, Cambridge 1973-. *Publications:* 8 Papers on the neurophysiology of vision in The Journal of Physiology. *Leisure interests:* walking, music, skiing. *Address:* Physiological Laboratory, Cambridge, CB2 3EG (Office); Trinity College, Cambridge, CB2 1TQ, England (Home).

BARLOW, Sir William, Kt., F.I.E.E., F.I.MECH.E.; British engineer and post office executive; b. 8 June 1924, Oldham; s. of Albert Edward and Annice Barlow; m. Elaine Mary Atherton Adamson 1948; one s. one d.; ed. Manchester Grammar School and Manchester Univ. English Electric Co. Ltd. 1947-68; Man. Dir. English Electric Computers 1967-68; Chief Exec. Ransome Hoffmann Pollard Ltd. 1969-77, Chair. 1971-77; Chair. Post Office Corpn. Nov. 1977-; Dir. Glynned Ltd. 1975-, Royal Worcester 1976-. *Leisure interest:* golf. *Address:* The Post Office, 23 Howland Street, London W.1. (Office); 2 Neville Drive, London, N.2, England (Home). *Telephone:* 01-631 2345 (Office).

BARMIN, Vladimir Pavlovich; Soviet engineer; b. 4 March 1909, Moscow; s. of Pavel Ivanovich Barmin and Maria Isayevna (Antonenkova) Barmina; m. Lydia Ivanovna Postnikova 1933; two s.; ed. Moscow Higher Technical School. at compressor plant, U.S.S.R. Acad. of Sciences 1930-, Chief Designer 1941-; Instructor, Moscow Higher Technical School 1931-, Prof. Mech. Eng. 1960-; mem. CPSU 1944-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-; State Prize 1943, 1967, 1977; Lenin Prize 1957; Hero of Socialist Labour 1956; Order of Lenin (five times); Order of October Revolution; various medals. *Publications:* on compressor engineering, refrigeration techniques, etc. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

BARNABY, Charles Frank, M.S.C, PH.D.; British physicist; b. 27 Sept. 1927, Andover, Hants.; s, of Charles H. Barnaby and Lilian Sainsbury; m. Wendy Elizabeth Field 1972; one s. one d.; ed. Andover Grammar School and Univ. of London. Physicist, U.K. Atomic Energy Authority 1950-57; mem. Senior Scientific Staff, Medical Research Council, Univ. Coll. Medical School 1957-68; Exec. Sec. Pugwash Confs. on Science and World Affairs 1968-70; Dir. Stockholm Int. Peace Research Inst. (SIPRI) Oct. 1971-. *Publications:* Man and the Atom 1971, Editor Preventing the Spread of Nuclear Weapons 1971, Co-editor Anti-ballistic Missile Systems 1971, Disarmament and Arms Control 1973, The Nuclear Age 1976; articles in scientific journals. *Leisure interests:* natural history. *Address:* Stocksundstorpsvägen 1, 17173 Solna, Sweden; San Kuai, Chilbolton, Stockbridge, Hants., England. *Telephone:* 08/15 09 40 (Sweden); Chilbolton 423 (England).

BARNARD, Christiaan Neethling, M.MED., M.D., M.S., PH.D., F.A.C.S., F.A.C.C. South African heart surgeon; b. 8 Oct. 1922, Beaufort West, Cape Province; s. of Adam Hendrik Barnard and Maria Elisabeth de Swart; m. 1st Aletta Gertruida Louw 1948 (divorced 1970); one s. one d.; m. 2nd Barbara M. Zoellner 1970; two s.; ed. Univ. of Cape Town; graduated as doctor 1946; intern, Groote Schuur Hospital, Cape Town 1947; then spent two years in general practice in Ceres; then Senior Resident Medical Officer, City Fever Hospital, Cape Town; returned to Groote Schuur Hospital; then Charles Adams Memorial Scholar, Univ. of Minnesota, concentrating on cardiothoracic surgery; on return to Groote Schuur Hospital concentrated on open-heart operations and cardiac research; Head of Cardiac Research and Surgery. Univ. of Cape Town; developed the Barnard Valve, for use in open-heart surgery; performed first successful open-heart operation in South Africa; performed first successful heart transplant operation in world 1967, first successful double heart transplant operation 1974; Hon. D.Sc. (Univ. of Cape Town). *Publications:* One Life (autobiography, with C. B. Pepper) 1970, Heart Attack: All You Have To Know About It 1971, The Unwanted (with S. Stander) 1974, South Africa: Sharp Dissection 1977, In the Night Season (with S. Stander) 1977. *Leisure interests:* Power-boats, water skiing, fishing, flying. *Address:* Department of Cardiac Surgery, U.C.T. Medical School, Observatory, Cape Town, South Africa. (Office). *Telephone:* 55-1359.

BARNARD, Lance Herbert; Australian politician and diplomatist; b. 1 May 1919, Launceston, Tasmania; m. Jill Newton; one s. three d.; ed. Launceston Technical Coll. Mil. service in Second World War 1940-45, Australian Cadet Corps, with rank of Captain 1945-54; M.P. 1954-75; mem. Joint Public Accounts Cttee. 1956-58; Fed. Parl. Labor Party Exec. 1958-61; State Pres. Tasmanian Branch, Australian Labor Party 1963-66; 1970-72, Joint Parl. Cttee. on Foreign Affairs 1967-69; Deputy Leader Parl. Labor Party 1967-75; Joint Select Cttee. on Defence Forces Retirement Benefits Legislation 1970-71; Deputy Prime Minister 1972-74; Minister for Defence 1972-75; Amb. to Sweden, Finland and Norway 1975-78. *Publications:* Australian Defence—Policy and Programmes. *Address:* 8 Lantana Avenue, Launceston, Tasmania, Australia (Home).

BARNES, Clive; British journalist, dance and theatre critic; b. 13 May 1927, London; m.; two c.; ed. King's Coll., London and Oxford Univ. Admin. officer, Town Planning Dept., London County Council 1952-61; also active as freelance journalist contributing articles, reviews and criticisms on music, dance, theatre, films and television to the New Statesman, The Spectator, The Daily Express, The New York Times, etc.; Chief dance critic, The Times, London 1961-65; Exec. Ed., Dance and Dancers, Music and Musicians, Plays and Players 1961-65; Dance Critic. The New York Times 1965-78, also Drama Critic (weekdays only) 1967-77; Assoc. Ed., Chief Dance and Drama Critic, New York Post 1978-. *Publications:*

Ballet in Britain Since the War, Frederick Ashton and His Ballet, Ballet Here and Now, Dance As It Happened, Dance in the Twentieth Century, Dance Scene: U.S.A. *Address:* c/o The New York Post, 210 South Street, New York, N.Y. 10002, U.S.A. (Office).

BARNES, Edward Larrabee, B.A., M.A.; American architect; b. 22 April 1915, Chicago Ill.; s. of Cecil and Margaret H. (Ayer) Barnes; m. Mary E. Coss 1944; one s.; ed. Milton Acad., Harvard Univ. and Graduate School of Design. Sheldon Travelling Fellowship 1942; architectural practice in New York City 1949-; Critic of Architectural Design, Pratt Inst., Brooklyn 1953-54, Yale School of Architecture 1956-; work exhibited at Museum of Modern Art (New York), Carnegie Inst. (Pittsburgh, Pa.) and published in architectural magazines; Dir. Municipal Art Soc. of New York 1960; Fellow, American Inst. of Architects; Trustee, American Acad. in Rome 1963-78, Vice-Pres. 1972, First Vice-Chair. 1976; Trustee, Museum of Modern Art, New York, 1975; Assoc. Nat. Acad. of Design 1969, Academician 1974; Fellow, American Acad. of Arts and Sciences 1978-; Yale Award for Distinction in the Arts, Arnold Brunner Prize, Nat. Inst. of Arts and Letters 1959, Silver Medal, Architectural League, N.Y. 1960, Progressive Architecture Design Award 1963, F.H.A. First Honor Award 1963; A.I.A., Medal of Hon. (N.Y. chapter) 1971, Collaborative Achievement in Architecture 1972, Hon. Award 1972, 1977, Harleston Parker Award, Boston Soc. of Architects 1972, Certificate of Excellence, Urban Design Awards Program 1978; *Works include:* prefabricated aluminium house for Consolidated Vultee Aircraft Corpn.; private houses; Fresh Air Fund Camps; urban renewal housing projects in Sacramento and San Juan; corporate identification programme for Pan American Airways; U.S. Consulate, Tabriz, Iran; Haystack Mountain School of Arts and Crafts, Maine; master plans for State Univ. of New York campuses at Purchase and Potsdam; office buildings for New England Merchants National Bank, Boston, and IBM, New York; Walker Art Gallery, Minneapolis, Minn.; Sarah Scaife Gallery, Pittsburgh, Pa.; Chicago Botanic Garden, etc. *Leisure interests:* music, piano, sailing, climbing. *Address:* 410 East 62nd Street, New York, N.Y. 10021(Office); Wood Road, Mount Kisco, N.Y., U.S.A. (Home). *Telephone:* 212-838-8500.

BARNES, Harry George, Jr., M.A.; American diplomatist; b. 5 June 1926, St. Paul, Miss.; s. of Harry George and Bertha Pauline (Blaul) Barnes; m. Elizabeth Ann Sibley 1948; one s. three d.; ed. Amherst Coll. and Columbia Univ.; served with A.U.S 1944-46; Vice-Consul, Bombay 1951-53; Consular Officer, Prague 1953-55; Russian Area and Language Trainee, Oberammergau, Germany 1955-56; Second Sec., Consul, Moscow 1956-69; Office of Soviet Union Affairs, Dept. of State 1959-62; Nat. War Coll. 1962-63; Deputy Chief of Mission, American Embassy, Nepal 1963-67, Romania 1968-71; Office of Personnel, Dept. of State 1971-72; Deputy Exec. Sec., Dept. of State 1972-74; Amb. to Romania 1974-77; Dir.-Gen. of the Foreign Service and Dir. of Personnel, Dept. of State 1977-. *Leisure interest:* trekking. *Address:* Department of State, Washington, D.C. 20520, U.S.A. (Office); 7019 Armat Drive, Bethesda, Md. 20034, U.S.A. (Home). *Telephone:* 1202-632-9898 (Office).

BARNES, Sir John, K.C.M.G.; British diplomatist (retd.); b. 22 June 1917, London; s. of Rt. Rev. E. W. Barnes and Adelaide Ward; m. Cynthia M. R. Stewart 1948; two s. three d.; ed. Winchester Coll. and Trinity Coll., Cambridge; served in Royal Artillery 1939-46; joined diplomatic service 1946; postings to Washington, Beirut and Bonn; Amb. to Israel 1969-72, to the Netherlands 1972-77; Dir. Alliance Investment Ltd. 1977-; Dir. Esperanza Trade and Transport 1978-. *Address:* Hampton Lodge, Hurstpierpoint, Sussex, England. (Home).

BARNES, Robert Henry, B.S., M.D.; American psychiatrist; b. 4 Nov. 1921, Worcester, Mass.; s. of Harry Elmer Barnes and Grace Stone Barnes; m. Beverly R. Feingold 1967; one s. one d. and one stepson; ed. Union Coll. Schenectady, New York, Duke Univ. and Univ. of Colorado. Instructor, Psychosomatic Medicine, Univ. of Colorado 1952-53, Asst. Prof. of Psychiatry, Duke Univ. 1953-56; Assoc. Prof., Prof. and Chair., Dept. of Psychiatry, Univ. of Missouri in Kansas City 1956-68; Exec. Dir Greater Kansas City Mental Health Foundation 1956-68; Acting Dir. Epidemiological Field Station, Kansas City, Missouri 1967-68; Prof. of Psychiatry, Univ. of Texas School of Medicine, San Antonio 1968-72; Prof. and Chair. Dept. of Chemistry, Texas Technical Univ. School of Medicine 1972-; Fellow, American Psychiatric Assn.; Consultant Nat. Inst. of Mental Health in Community Mental Health Programs and Epidemiology 1962-. *Publications:* A Community Concern (with Epps and McPartland) 1965; and 30 articles on geriatrics, psychosomatic medicine, electroencephalography, cerebral circulation, psychiatric education, and group therapy. *Leisure interests:* private flying, hunting, fishing, cooking. *Address:* Texas Technical University, School of Medicine, Tubbock, Tex. 79409, U.S.A. (Office) *Telephone:* 806-742-5273.

BARNETSON, Baron (Life Peer), cr. 1975, of Crowborough in the County of Sussex; **William Denholm Barnetson,** Kt., M.A., British journalist; b. 21 March 1917; s. of William Denholm Barnetson and Ella Grigor Moir; m. Joan F. Davidson 1940; one s. three d.; ed. Royal High School, Edinburgh and Edinburgh Univ.; successively Leader Writer, Ed. and Gen. Man., Edinburgh Evening News 1948-61; Joint Man. Dir. United Newspapers Ltd. 1961, Chair. 1966-; Chair. Sheffield Newspapers 1963-, Reuters Ltd. 1968–, Bradbury Agnew 1969-, Scottish Int. Information Cttee. 1970-77, Council Commonwealth Press Union 1972-77, The Observer Ltd. 1976-; Chair Thames Television 1979-; Deputy Chair. and Dir. British Electric Traction Co. 1976-; Pres. Press Club 1973-76, Periodical Publrs'. Assn. 1974-76, Newsvendors Benevolent Inst. 1975-, Newspaper Press Fund Appeal 1974-, Advertising Assn. 1976-; Dir. Argus Press Ltd. 1965-, Drayton Consolidated Trust Ltd. 1969-, Yorkshire Post Newspapers Ltd. 1969-, Earls Court & Olympia Ltd. 1973-, Hill Samuel Group Ltd. 1977-; Dir. English Nat. Opera 1976-; mem. London Bd.. Bank of Scotland 1979-. *Leisure interest:* books. *Address:* United Newspapers Ltd., 23-27 Tudor Street, London, EC4Y 0HR (Office); "Broom", Chillies Lane, Crowborough, Sussex, England. (Home). *Telephone:* 01-583 9199; 089-26 5748.

BARNETT, Rt. Hon. Joel, P.C., J.P.; British politician; b. 14 Oct. 1923; s. of Louis and Ettie Barnett; m. Lillian Goldstone 1949; one d.; ed. Derby Street Jewish School, Manchester Central High School. Certified Accountant, retd. 1974; fmrl. in private practice in Manchester; served Royal Army Service Corps and British Mil. Govt. in Germany; mem. Borough Council, Prestwich, Lancs. 1956-59; Hon. Treas. Manchester Fabian Soc. 1953-65; Labour Cand. for Runcorn Div. of Cheshire 1959; M.P. for Heywood and Royton Div. of Lancashire 1964-, mem. House of Commons Public Accounts Cttee. 1965-71, Public Expenditure Cttee. 1971-74, Select Cttee. on Tax Credits 1973-74; Vice-Chair. Parl. Labour Party Econ. and Finance Group 1966-67, Chair. 1967-70, 1972-74; Opposition Spokesman on Treas. Matters 1970-74; Chief Sec. to the Treas. 1974-79, with Cabinet rank 1977-79. *Leisure interests:* walking, conversation, reading, good food. *Address:* Flat 92, 24 John Islip Street, London, S.W.1; 10 Park Lane, Whitefield, Lancs., England. (Home).

BARON, Jean-Jacques; French engineer; b. 11 May 1909, Angerville L'Orcher, Seine Maritime; three s.; ed. Ecole Centrale des Arts et Manufactures, Paris. Engineer, later Technical Dir. L'Aluminium Français 1933-57; Dir. Compagnie Péchiney Ugine Kuhlmann (fmrly. Péchiney) 1958-71; Dir., Adviser, Soc. Péchiney Ugine Kuhlmann 1971-; Dir. Ecole Centrale des Arts et Manufactures, Paris 1967-78; Pres. Conseil Nat. des Ingénieurs Français; Commandeur Ordre national du Mérite, Officer Légion d'honneur, Ordre des Palmes académiques. *Address:* 7 avenue Bosquet, 75007 Paris, France (Home). *Telephone:* 563-11-00 (Office); 555-09-71 (Home).

BAROOAH, Dev Kanta, LL.B.; Indian politician; b. 22 Feb. 1914, Dibrugarh (Assam); s. of late Nilkanta Barooah; m. Priyalata Barooah; one s.; ed. Nowgong Govt. School and Banaras Hindu Univ. Sec., Assam P.C.C. 1938-45; Ed. Dainik, Assamiya and Natun Asamiya (daily newspapers); mem. Constituent Ass. 1949-51, Lok Sabha, 1952-57; mem. Legislative Ass. of Assam 1957-60, Speaker 1960: Chair. Oil Refinery 1960; mem. Assam Legislative Ass. 1962-66, 1967; Minister of Educ. and Co-operation 1962; Chair. Oil India 1968; Gov. of Bihar 1971-73; Minister of Petroleum and Chemicals 1973-74; Pres. Indian Nat. Congress Party 1974-77. *Leisure interests:* gardening, reading. *Address:* 5 Dr. Rajendra Prasad Road, New Delhi; and 23 Tughlak Road, New Delhi, India. *Telephone:* 615117, 72120.

BAROYAN, Organes Vagarshakovich; Soviet health official; b.24 Dec. 1906, Erevan; ed. First Medical Inst. of Moscow. Prof. of Epidemiology and Microbiology; Dir., Dept. of Epidemiology, Ivanovski Virology Inst. of Acad. of Medical Sciences; Dir. Gamaleya Inst. of Epidemiology and microbiology, Acad. of Medical Sciences 1964-; Asst. Dir.-Gen. World Health Organization, Geneva 1961-64; Prof. and Academician Acad. of Medical Sciences of U.S.S.R. 1965–; mem. Int. Epidemiological Assn.; Hon. mem. Soc. of Czechoslovak Epidemiologists and Microbiologists, of Purkyně Medical Soc. of Czechoslovakia; State Prize, Order of Red Star (twice), Order of Red Banner of Labour; Badge of Honour, Iranian orders. *Publications:* About 200 on epidemiology of virus infections. *Address:* N. F. Gamaleya Institute of Epidemiology and Microbiology, 2 Ulitsa Gamalei, Moscow, U.S.S.R.

BARR, Alfred Hamilton, Jr., PH.D.; American museum official and art historian; b. 28 Jan. 1902, Detroit, Mich.; s. of Alfred H. Barr and Annie Wilson; m. Margaret Scolari-Fitzmaurice 1930; one d.; ed. Boys' Latin School, Baltimore, Md., and Princeton and Harvard Univs. Instructor, History of Art, Vassar Coll. 1923-24, Princeton Univ. 1925-26; Assoc. Prof. of Art, Wellesley Coll. 1926-29; Dir., Museum of Modern Art, New York 1929-43, Trustee 1939–, Dir. of Museum Collections 1947-67, Counsellor to the Trustees 1967-; Hon. Litt.D. (Princeton), Hon. Ph.D. (Bonn), Hon. D.F.A. (Buffalo, Yale, Columbia); Nat. Inst. of Arts and Letters Award for Distinguished Service to the Arts 1968, New York State Award 1968; several foreign decorations. *Publications:* Cubism and Abstract Art 1936, What is Modern Painting? 1943, Picasso: Fifty Years of his Art 1946, 20th Century Italian Art (with J. T. Soby) 1949, Matisse: His Art and His Public 1951, Masters of Modern Art (ed.) 1954; editor of several periodicals on art. *Leisure interest:* bird watching. *Address:* 49 East 96th Street, New York, N.Y., U.S.A. (Home).

BARR, Rev. James, M.A., B.D., D.D., F.B.A., F.R.A.S.; British university professor; b. 20 March 1924, Glasgow, Scotland; s. of Prof. and Mrs. Allan Barr; m. Jane J. S. Hepburn 1950; two s. one d.; ed. Daniel Stewart's Coll., Edinburgh, Univ. of Edinburgh. Minister, Church of Scotland, Tiberias, Israel 1951-53; Prof. of New Testament, Presbyterian Coll., Montreal, Canada 1953-55; Prof. of Old Testament, Univ. of Edinburgh 1955-61, Princeton Theological Seminary (N.J.) 1961-65; Prof. of Semitic Languages and Literatures, Univ. of Manchester 1965-76; Oriel Prof. of Interpretation of Holy Scripture, Univ. of Oxford 1976-78; Regius Prof. of Hebrew, Oxford Oct. 1978-; Visiting Prof., Hebrew Univ. of Jerusalem 1973, Univ. of Chicago, Ill. 1975, Univ. de Strasbourg, France 1975-76; Currie Lecturer, Austin Theological Seminary, Tex. 1964; Guggenheim Memorial Fellowship for study in biblical semantics 1965; Cadbury Lecturer, Univ. of Birmingham 1969; F.B.A. 1969; Croall Lecturer, Univ. of Edinburgh 1970; Grinfield lecturer on the Septuagint, Univ. of Oxford 1974-78; Firth Lecturer, Univ. of Nottingham 1978; Corresp. mem. Göttingen Acad. of Sciences, Fed. Repub. of Germany 1976, Norwegian Acad. 1977; Hon. D.D., Knox Coll., Toronto, Canada 1964, Univ. of Dubuque, Iowa 1974, Univ. of St. Andrews 1974; Hon. Fellow, School of Oriental and African Studies, London 1975. *Publications:* The Semantics of Biblical Language 1961, Biblical Words for Time 1962, Old and New in Interpretation 1966, Comparative Philology and the Text of the Old Testament 1968, The Bible in the Modern World 1973. Fundamentalism 1977; editor: Oxford Hebrew Dictionary 1974-. *Address:* Christ Church, Oxford; Oriental Institute, Oxford (Office). 6 Fitzherbert Close, Iffley, Oxford, OX4 4EN, England. (Home). *Telephone:* Oxford 772741 (Home).

BARR, John Andrew, LL.B.; American lawyer, business executive and educator; b. 10 Sept. 1908, Akron, Ind.; s. of Earl and Bertha Barr; m. Louise Stentz 1933; three s. one d.; ed. DePauw and Indiana Univs.; with law firm of Wildermuth and Force (Gary, Ind.) 1930-33; Attorney Montgomery Ward & Co. 1933-35; Partner Wildermuth, Force and Barr 1935-38; rejoined Montgomery Ward legal staff 1938, Asst. Sec. 1940-49, Vice-Pres. and Sec. 1949-55, Dir. 1950-65, Chair. 1955-65; Dean, Graduate School of Management, Northwestern Univ. 1965-75; Dir. Northern Trust Co., Commonwealth Edison Co., S.C. Johnson and Son Inc., Stewart-Warner Corpn., Marsh and McLennan Cos., Nortrust Corpn., Goldblatt Bros. Inc., Evanston Hospital Assn., Mid-West Stock Exchange. *Leisure interests:* golf, hunting, fishing, gardening. *Address:* Graduate School of Management, Northwestern Univ., 2001 Sheridan Road, Evanston, Ill. 60201 (Office); 1420 Sheridan Road, Wilmette, Ill. 60091, U.S.A. (Home).

BARR, Joseph Walker; American businessman; b. 17 Jan. 1918, Vincennes, Ind.; s. of Oscar Lynn Barr and Stella F. Walker; m. Beth A. Williston 1939; one s. four d.; ed. DePauw Univ. and Harvard Univ. fmr. Exec. Vice-Pres. Merz Engineering, Indianapolis; fmr. Sec.-Treas. Barr Devt. Corpn., Indianapolis; fmr. mem. U.S. House of Reps., mem. Banking and Currency Comm.; Asst. to Sec. (Congressional Relations), Dept. of Treasury 1961-64; Chair. Board Fed. Deposit Insurance Corpn. 1964-65; Under-Sec. of Treasury 1965-68, Sec. 1968-69; Pres. American Security and Trust Co. 1969-72, Chair. of the Board 1973-74; Chair. Federal Home Loan Bank, Atlanta, Ga.; Dir. 3M Co., Burlington Industries, Commercial Credit Co., Student Loan Marketing Assn., Washington Gas Light Co., Control Data Corpn., Bastogi Int., Manor Care Inc., Fed. Home Loan Bank, Atlanta, Ga., CONRAIL; mem. Board of Regents, Georgetown Univ.; Hon. LL.D. Vincennes Univ. 1966, DePauw Univ. 1967. *Address:* Suite 707, 734 15th Street, N.W., Washington, D.C. 20005 (Office); Houyhnhnm Farm, Hume, Virginia 22639, U.S.A. (Home). *Telephone:* (202) 638-7676 (Office).

BARR, Morris Alfred, A.C.M.M., LL.D.; Australian international administrator and business executive; b. 23 Dec. 1922, Melbourne; s. of Benjamin Alfred Barr and Margaret Bell; m. Shirley Frances Deacon 1957; ed. Scotch Coll., Melbourne Univ. and Melbourne Conservatorium of Music. Mem. editorial staff Melbourne Argus; served with Australian Imperial Forces and Far Eastern Liaison Office; Head, Melbourne Conservatorium of Music 1948; with English-Speaking Union 1951-, Dir. of Programmes 1959-64, Dir.-Gen. 1964-69; Part-time lecturer in int. affairs to British Armed Services 1953-64; Int. Co-ordinator Winston Churchill Memorial Trust 1960-65; Chair. and Man. Dir. Associated Consultants (Construction) Ltd. 1969-; Trustee, Univ. of Louisville (Humphrey Centenary Scholarship Trust); Trustee and Cttee. mem., Britain-Australia vocational exchange 1974-; Chair. Australian Musical Assn. 1974-mem. Victoria (Australia) Promotion Cttee. 1978-. *Leisure interests:* music, swimming, golf. *Address:* 88 Baker Street, London W1M 1DL (Office); 16 Park Place Villas, London, W.2, England. (Home). *Telephone:* 01-935 4253.

BARRAN, Sir David Haven, Kt.; British oil executive; b. 23 May 1912, London; s. of John N. Barran, Bt., and Alice M. Parks; m. Jane Lechmere Macaskie 1944; four s. three d.; ed. Winchester Coll. and Trinity Coll., Cambridge. Asiatic Petroleum Co. 1934-61, served Egypt, Sudan, Red Sea, India, London 1934-58, Pres. Asiatic Petroleum Corpn., New York 1958-61; Man. Dir. The Shell Petroleum Co., Shell Int. Petroleum Co. 1961-72; Principal Dir. Bataafse Petroleum Mij. N.V. 1961-72; Dir. Shell Transport and Trading Co. Ltd. 1961-, Deputy Chair. 1964-67, Man. Dir. 1967-72, Chair 1967-72; Dir. Shell Oil Co. 1964-72, Chair. 1970-72; Dir. Midland Bank 1972-; Deputy Chair. 1976-; Dir. City Investment Co. of N.Y. and Zürich 1972-76, Glaxo 1972-, Gen. Accident Insurance 1972-, Canadian Imperial Bank 1972-, B.I.C.C. 1972-, Standard Chartered Bank 1977-. *Leisure interests:* gardening, shooting, golf, embroidery. *Address:* 36 Kensington Square, London, W.8; Brent Eleigh Hall, Sudbury, Suffolk, England. *Telephone:* 01-937 5664 (London).

BARRAULT, Jean-Louis; French actor and producer; b. 8 Sept. 1910; m. Madeleine Renaud (q.v.) 1940; ed. Collège Chaptal. Master at Collège Chaptal 1931; began stage career in role of servant in Volpone 1931; produced and acted in a number of plays, including: Autour d'une mère 1935; Hamlet, Tandis que j'agonise, Numance 1937, La faim; with the Comédie-Française, 1940-47: Antoine et Cléopâtre, Le soulier de satin; founded Compagnie M. Renaud-J.-L. Barrault 1947: Les nuits de la colère, Les fausses confidences, Amphitryon, Baptiste, Occupe-toi d'Amélie, Le procès, Partage de midi, Le bossu, Christophe Colomb, Pour Lucrèce, La cerisaie 1954, Le songe des prisonniers 1955, (Théâtre Marigny) Le personnage combattant, Madame Sans-Gêne, La vie Parisienne 1958, Rabelais 1969, Jarry sur la butte 1970, Harold et Maude 1973, Zarathustra (dir., actor) 1974; Dir. Théâtre de France (fmr. Odéon) 1959-68, Théâtre des Nations 1965-67, 1972-74; Founder and Dir. Théâtre d'Orsay 1974-; Officier, Légion d'honneur; has made films, Les beaux jours, Hélène 1936, Mademoiselle Docteur, Drôle de drame, Un grand amour de Beethoven, Le puritain 1937, L'or dans la montagne 1939, La symphonie fantastique 1942, Les enfants du paradis 1944, Le cocu magnifique 1946, La ronde 1950, Versailles 1955. *Publications:* Réflexions sur le théâtre 1949, Nouvelles réflexions sur le théâtre 1959, Journal de bord 1961, Mémoires de demain (autobiog.) 1974; Editor: Cahiers de la Compagnie M. Renaud-J.-L. Barrault. *Address:* 18 avenue du Président Wilson, Paris 16e, France.

BARRE, Raymond; French international civil servant and politician; b. 12 April 1924, Saint-Denis, Réunion; m. Eve Hegedüs 1954; two s.; ed. Faculté de Droit, Paris, and Inst. d'Etudes Politiques, Paris. Prof. at Inst. des Hautes Etudes, Tunis 1951-54; Prof. at Faculté de Droit et de Sciences économiques, Caen 1954-63; Prof. Inst. d'Etudes politiques, Paris 1961-, Faculté de Droit et Sciences économiques, Paris 1962-; Dir. du Cabinet to Minister of Industry 1959-62; mem. Cttee. of Experts (Comité Lorain) studying financing of investments in France 1963-64; mem. Comm. of Gen. Econ. and Financing of Fifth Plan and other govt. cttees.; Vice-Pres. of Comm. of European Communities responsible for Econ. and Financial Affairs 1967-72; mem. Gen. Council, Banque de France 1973-; Minister of Foreign Trade Jan.-Aug. 1976; Prime Minister Aug. 1976-, also Minister of Economy and Finance 1976-78; mem. Nat. Assembly 1978-. *Publications:* Economie politique 1956. *Address:* Hôtel Matignon, 57 rue de Varenne, 75007 Paris (Office); 6 rue de Bagatelle, 92200 Neuilly-sur-Seine, France. (Home).

BARREIROS RODRIGUEZ, Eduardo; Spanish business executive; b. 1919. Chair. of Board of Dirs. Barreiros Diesel S.A.,

Rheinstahl Hanomag Barreiros S.A., David Brown Engranajes S.A., Barreiros A.E.C. S.A., Barreiros Empresa Constructora S.A., Financiera Barreiros S.A., Comercial Internacional Barreiros S.A., Cia. Portuguesa de Motores y Camiones S.A. *Address:* Princesa 1, Madrid, Spain.

BARRENECHEA, Norberto M., PH.D.; Argentine business executive and diplomatist; b. 20 Aug. 1924, Buenos Aires; s. of Juan Carlos and Maria Elena Torres; m. Elisabeth M. Duhalde 1949; two s. two d.; ed. Univ. de Buenos Aires. Pres. of Board of Dirs. and Gen. Attorney Pedro D. Duhalde y Cía. S.A. (agricultural firm) 1958-77, Duhalde y Cía. S.A.; Vice-Pres. Board of Dirs. Indal S.A., Iquiyù S.A., El Boyero S.A.; Gen. Attorney El Grillo S.A., Don Pedro Dionisio S.A., Maldonada S.A., Inaga S.A., Barrenechea Igarreta S.R.L.; mem. Council Banco Francés e Italiano para la América del Sud; Amb. of Argentina in U.S.A. 1964-66; Technical mem. Comm. for Promotion of Econ. Devt. in Argentina; mem. American-Argentine Univ. Assen., Corporación Argentina de Aberdeen Angus, Jockey Club. *Publications:* Treatise on Auditing, Treatise on Financial Mathematics. *Leisure interest:* collecting bulls. *Address:* Sarmiento 329, Buenos Aires, Argentina. *Telephone:* 783-3900; 31-6030.

BARRETT, Charles S., M.A., PH.D.; American physicist, crystallographer and metallurgist; b. 28 Sept. 1902, Vermillion, S. Dakota; s. of Charles H. and Laura D. Barrett; m. Dorothy Adams 1928; one d.; ed. Univs. of S. Dakota and Chicago. Div. of Physical Metallurgy, Naval Research Laboratory, Anacostia, D.C. 1928-32; Metals Research Laboratory and Dept. of Metallurgy, Carnegie Inst. of Technology, Pittsburgh 1932-46; Prof., James Franck Inst., Univ. of Chicago 1946-70; now Adjunct Prof. of Physics and Senior Research Engineer of Denver Research Inst., Univ. of Denver; Eastman Visiting Prof., Oxford Univ. 1965-66; Ed. Metals and Alloys Section of Structure Reports for Int. Union of Crystallography 1949-51; Pres. American Soc. for X-ray and Electron Diffraction 1947; mem. Exec. Cttee. American Inst. for Mining and Metallurgical Engineers 1954-57 (Mathewson Medal 1934, 1944, 1950, Hume- Rothery Award 1976), Fellow 1965-; mem. Nat. Acad. of Sciences 1967-; Hon. mem. American Soc. of Metals (Howe Medal 1939); mem. Ship Steel Cttee. of Nat. Research Council 1948-62, Advisory Cttee., Office of Ordnance Research 1956-59; Fellow, American Physical Soc., American Crystallographic Assen., Inst. of Metals, U.S.A. Nat. Cttee of Int. Union of Crystallography 1950-55; Clamer Medal of Franklin Inst. 1950; Heyn Medal of Deutsche Gesellschaft für Metallkunde, gold medals of American Soc. for Metals and Japan Inst. of Metals. *Publications:* Structure of Metals 1943, 1953, 1966; over 180 papers on research in metallurgy, crystallography and physics. *Leisure interests:* travel, painting watercolours, tennis, scientific writing. *Address:* University of Denver, Denver, Colo. 80210, U.S.A.

BARRETT, David, B.A., M.S.W.; Canadian politician; b. 2 Oct. 1930, Vancouver, B.C.; s. of Samuel Barrett and Rose Hyatt; m. Shirley Hackman 1953; two s. one d.; ed. Seattle and St. Louis Univs. Social Worker, Probation Officer, St. Louis Co. Juvenile Court, St. Louis, Mo.; Supervisor of Social Training, Haney Correctional Inst.; Personnel and Staff Training Officer; Supervisor of Counselling Services, John Howard Soc. of B.C., Vancouver; first elected to B.C. Legislative Assembly 1960; re-elected 1963, 1966, 1969, 1972; apptd. Leader of the Opposition 1969; Premier of B.C., Minister of Finance 1972-75; New Democratic Party. *Address:* c/o Legislative Assembly, Victoria, B.C., Canada.

BARRETT, Edward Ware, A.B.; American journalist; b. 3 July 1910, Birmingham, Ala.; s. of Edward Ware and Lewis R. (Butt) Barrett; m. Mason Daniel 1939; two d.; ed. Princeton Univ. and Univ. of Dijon. On staff of Birmingham (Ala.) News 1929 and 1931; with Columbia Broadcasting System 1932-33; with Newsweek 1933-50, Washington Corresp. 1934-35, Nat. Affairs Ed. 1935-40, Assoc. Ed. 1940-42, Editorial Dir. 1946-50; with Office of War Information 1942-43, with Psychological Warfare Branch of Allied Force H.Q. 1943-44; Exec. Dir. of O.W.I. overseas operations, then Dir. of overseas branch 1944-45; U.S. Asst. Sec. of State for Public Affairs 1950-52; Ed., Consultant, New York 1952-54; Pres. Edward W. Barrett and Assocs. 1952-56; Exec. Vice-Pres. Hill and Knowlton 1953-56; Dean, Graduate School of Journalism, Columbia Univ. 1956-68; Dir. Communications Inst., Acad. for Educational Devt. 1969-; Trustee Inst. of Int. Educ. 1952-60, Atlantic Council of the U.S. 1957-; Dir. UN Assen. 1960-70; Pres. Assen. for Educ. in Journalism 1966-67; Dir. Race Relations Information Center 1969-74, Chair. 1973-74; Dir. Foreign Policy Assen. 1974-. *Publications:* Truth is Our Weapon 1953, Educational T.V.—Who Should Pay? 1968; Editor: This is Our Challenge 1958, Journalists in Action 1963. *Address:* 680 Fifth Avenue, New York, N.Y. 10019 (Office); Hawkwood Lane, Greenwich, Conn. 06830 U.S.A. (Home).

BARRIE, Sir Walter: British business executive (retd.) b. 31 May 1901, Coleraine, Co. Londonderry; s. of Rt. Hon. Hugh T. Barrie, M.P., and Katie Barrie; m. Noele Margaret Furness 1927 (died 1968); two s.; ed. Merchiston Castle, Edinburgh, and Gonville and Caius Coll., Cambridge.; entered Lloyd's 1926; mem. Cttee. of Lloyd's 1946; Deputy Chair. of Lloyd's 1951-52; Chair. of Lloyd's 1953, 1954, 1957, 1958; fmr. Dir. Lloyd's Life Assurance Ltd.; Pres. Insurance Inst. of London 1955-56, Pres. Chartered Insurance Inst. 1962-63; Dir. John Ferguson & Sons (Glasgow) Ltd., Joseph W. Hobbs & Co. Ltd., Westminster Bank 1958-69, Ulster Bank 1964-72. *Leisure interest:* golf. *Address:* Compton Elms, Pinkneys Green, Maidenhead, SL6 6NR, Berkshire, England. *Telephone:* Maidenhead 27151.

BARRINGTON, Ernest James William, M.A., D.SC., F.R.S.; British professor of zoology; b. 17 Feb. 1909, London; only s. of William B. and Harriet Barrington; m. Muriel Catherine Anne Clinton 1943; one s. one d.; ed. Christ's Hospital and Oriel Coll., Oxford. Lecturer in Zoology, Univ. Coll., Nottingham 1932; Rockefeller Fellow in Comparative Physiology, McGill Univ. 1939, Harvard Univ. 1940: Prof. of Zoology, Nottingham Univ. 1949-74, Public Orator 1964-70; Buell Gallagher Visiting Prof., City Coll., New York 1966; Visiting Prof., Univ. of São Paulo 1972; Fellow, Royal Soc. 1947-71; Vice-Pres. Zoological Soc. of London 1967, mem. Council, Chair. Publs. Cttee.; mem. Council European Soc. of Comparative Endocrinology; European Ed. General and Comparative Endocrinology 1960-73; Royal Soc. Leverhulme Visiting Prof., Univ. of Buenos Aires 1970; Hon. mem. European Soc. of Comparative Endocrinologists; mem. Société Royale Zoologique de Belgique; Hon. D.Sc. (Nottingham) 1975. *Publications:* Introduction to General and Comparative Endocrinology 1963, Hormones and Evolution 1964, The Biology of Hemichordata and Protochordata 1965, Invertebrate Structure and Function 1967, The Chemical Basis of Physiological Regulation 1968, Perspectives in Endocrinology (joint Editor) 1969, Hormones in Development (joint Editor) 1971, Trends in Comparative Endocrinology 1975; scientific papers on digestive structure and physiology, and comparative endocrinology. *Address:* Cornerways, 2 St. Margaret's Drive, Alderton, Tewkesbury, Gloucester, GL20 8NY, England. (Home). *Telephone:* Alderton 375.

BARRIOS, Dr. Gonzalo; Venezuelan lawyer, historian and politician; b. 1903. Fmr. lawyer; fmr. Chair. Acción Democrática; Minister of Interior 1964-66; unsuccessful Presidential candidate 1968. *Address:* Acción Democrática, Edif. No. 4, Calle Los Cedros, La Florida, Caracas, Venezuela.

BARRON, Sir Donald James, Kt., D.L., B.COM., C.A.; British businessman; b. 17 March 1921, Edinburgh; s. of Albert Gibson Barron and Elizabeth MacDonald; m. Gillian Mary Saville 1956; three s. two d.; ed. George Heriot's School, Edinburgh, Univ. of Edinburgh. Joined Rowntree & Co. Ltd. 1952, Dir. 1961, Vice-Chair. 1965; Chair. Rowntree Mackintosh Ltd. 1966-; Dir. Midland Bank Ltd. 1972-; mem. Council of C.B.I. 1966-; Trustee Joseph Rowntree Memorial Trust 1966-; Treas. Univ. of York 1966-72; mem. Soc. Science Research Council 1971-72, Univ. Grants Cttee. 1971-, Inst. of Chartered Accountants of Scotland. *Leisure interests:* golf, tennis, boating, gardening. *Address:* Greenfield, Sim Balk Lane, Bishopthorpe, York, YO2 1QH. (Home). *Telephone:* York 705675.

BARROW, Rt. Hon. Errol Walton, P.C., B.SC. (Econ.); Barbadian barrister and politician; b. 21 Jan. 1920, Barbados; s. of Reginald Grant Barrow and Ruth O'Neal; m. Carolyn Plaskett 1945; one s. one d.; ed. Combermere School, Harrison Coll., Lincoln's Inn, London, and London Univ. Flying duties, Royal Air Force 1940-47; Founder-mem. Dem. Labour Party 1955, Chair. 1958-76; Prime Minister of Barbados 1961-76 (of independent Barbados 1966-76), also Minister of External Affairs 1966-72, of Finance and Planning; Hon. Fellow, L.S.E., Hon. LL.D. *Leisure interests:* diving, flying, sailing. *Address:* P.O. Box 125, Bridgetown, Barbados.

BARRY, Peter; Irish politician; b. 1928, Cork. Man. Dir. of a tea firm; mem. of the Dáil 1969-; fmr. Chair. Oireachtas Cttee., Fine Gael Party; fmr. Lord Mayor of Cork and Chair. Cork and Kerry Regional Devt. Board; Fine Gael Spokesman on Labour 1969-73; Minister for Transport and Power 1973-76, for Educ. 1976-77; Fine Gael Spokesman on Econ. Affairs and Public Services July 1977-. *Address:* Blackrock, Cork. Ireland.

BARSCHALL, Henry Herman, PH.D.; American physicist; b. 29 April 1915, Berlin, Germany; m. Eleanor Folsom 1955; one s. one d.; ed. Princeton Univ. Asst. Prof. Univ. of Wis. 1946-47, Assoc. Prof. 1947-50, Prof. 1950; Chair. Dept. of Physics 1951-54, 1956-57, 1963-64; Visiting Prof. Univ. of Calif. 1971-73; Assoc. Div. Leader Lawrence Livermore Lab., Univ. of Calif. 1971-73; Bascom Prof. of Nuclear Engineering and Physics, Univ. of Wis.; Ed. Physical

Review C 1972-; Bonner Prize American Physical Soc.; mem. Nat. Acad. of Sciences. *Address:* Engineering Research Bldg., Madison, Wis. 53706 (Office); 1110 Tumalo Trail, Madison, Wis. 53711, U.S.A. (Home). *Telephone*: 608-263-1647 (Office); 608-233-6920 (Home).

BARSHAI, Rudolf Borisovich; Soviet conductor; b. 28 Sept. 1924, Labinskaya, Krasnodar Territory; s. of Boris and Maria Barshai; ed. Moscow Conservatoire. Performed in chamber ensembles with Shostakovich, Richter, Oistrakh, Rostropovich; founded Moscow Chamber Orchestra 1955; numerous tours abroad; composer of orchestrations and arrangements for chamber orchestra of old and contemporary music. Living in Israel.

BARSZCZEWSKA, Elżbieta; Polish actress; b. 29 Nov. 1913; d. of Witold Barszczewski and Maria Szumska; m. Marian Wyrzykowski; one s.; ed. Theatrical School, Warsaw.; debut, Teatr Nowy, 1934; mem. Teatr Polski Co. 1945-; major roles include Ophelia (Hamlet), Infanta (Le Cid), Lilla Weneda (Lilla Weneda by Stowacki), Nora (The Doll's House), Helena (A Midsummer Night's Dream), Tessa (Tessa by Giraudoux), Maya (The Simpleton of the Unexpected Isles), Mimi (La bohème), Camille (Bataille de dames), Angelica (Port royal by Montherlant), Hannah (The Night of the Iguana), Lubov (The Cherry Orchard), Helen (Innocent Culprits by Ostrovski), Helene Alving (Ghosts), Maria (Maria Stuart by Schiller), Higgins' Mother (Pygmalion); guest appearances in U.S.S.R., Czechoslovakia, U.S.A.; many film appearances; many prizes and decorations including State Artistic Prize 1972, Prize of Minister of Culture and Art 1977. *Leisure interest:* collecting theatrical items. *Address:* Al. I Armii W.P. 11/20, 00-580 Warsaw, Poland. *Telephone:* 28-9102.

BART, Lionel; British composer and lyricist; b. 1 Aug. 1930. Ivor Novello Awards as song writer 1957 (three), 1959 (four), 1960 (two); Variety Club Silver Heart as Show Business Personality of the Year, Broadway, U.S.A. 1960; Antoinette Perry Award (Tony) for Oliver! 1962; Gold disc for soundtrack of Oliver! 1969. *Principal works:* Lyrics for Lock Up Your Daughters 1959, music and lyrics for Fings Ain't Wot They Used T'be 1959, music, lyrics and book for Oliver! 1960 (film 1968), music, lyrics and direction of Blitz! 1962, music and lyrics of Maggie May 1964; film scores include: Serious Charge, In the Nick, Heart of a Man, Let's Get Married, Light Up the Sky, The Tommy Steele Story, The Duke Wore Jeans, Tommy the Toreador, Sparrers Can't Sing, From Russia with Love, Man in the Middle; many individual hit songs. *Address:* c/o Patricia McNaughton, 194 Old Brompton Road, London, S.W.5, England.

BARTELSKI, Leslaw, LL.M.; Polish writer; b. 8 Sept. 1920, Warsaw; s. of Zygmunt and Zofia Ulanowska; m. Maria Zembrzuska 1947; one s. one d.; ed. Univ. of Warsaw. Member of resistance movement 1939-44; mem. Sztuka i Naród (Art and Nation) 1942-44; Co-Ed. Nowiny Literackie 1947-48, Nowa Kultura 1953-63, Kultura 1963-72; mem. Presidium of Gen. Council, Soc. of Fighters for Freedom and Democracy 1969-; mem. PEN; Chair. Warsaw Branch, Polish Writers Assen. 1972-; Visiting Prof., Univ. of Warsaw 1970-71, 1977-78; Vice-Pres. Warsaw City Council 1973-; State Prize 1951, Prize of Minister of Defence 1969, Pietrzak Prize 1969, Warsaw Prize 1969, Prize of Minister of Culture and Art 1977. *Publications:* novels include Ludzie zza rzeki 1951, Pejzaż dwukrotny 1958, Wodorosty 1965, Mickiewicz na wschodzie 1965, Dialog z cieniem 1968, Niedziela bez dzwonów 1973, Krwawe skrzydla 1975, Rajski ogród 1978; essays: Genealogia ocalonych 1963, Jeździec z Madary 1963, Powstanie Warszawskie 1965, Walcząca Warszawa 1968, Mokotów 1944 1971, Z glową na karabinie 1974, Pamięç żywa 1976, Sylwetki polskich pisarzy współczesnych 1944-74 (biographical dictionary) 1976. *Leisure interests:* history of the Second World War, sport. *Address:* Ul. Joliot Curie 17/1, Warsaw, Poland. *Telephone:* 44-31-10.

BARTH, John, M.A.; American novelist and professor of English; b. 27 May 1930, Cambridge, Md.; s. of John J. Barth and Georgia Simmons; m. Shelly Rosenberg; ed. Johns Hopkins Univ. Instructor Pennsylvania State Univ. 1953, Assoc. Prof. until 1965; Prof. State Univ. of New York at Buffalo 1965-73, Johns Hopkins Univ. 1973-; Nat. Acad. of Arts and Letters Award; Nat. Book Award; Rockefeller Foundation Grant; Brandeis Univ. Citation in Literature; Hon. Litt.D. (Univ. of Maryland). *Publications:* Novels: The Floating Opera 1956, The End of the Road 1958, The Sot-Weed Factor 1960, Giles Goat-Boy 1966; Lost in the Funhouse (stories) 1968, Chimera 1972. *Address:* Johns Hopkins University, Baltimore, Md. 21218, U.S.A.

BARTHA, Dénes (Dennis R.), DR. PHIL. HABIL; Hungarian musicologist; b. 2 Oct. 1908, Budapest; s. of Richard Bartha and Paula Imling; m. Susan Bartha 1939; two s. one d.; ed. High School of Music, Budapest, and Berlin Univ. Librarian, Music Dept. Nat. Library 1930; joined staff Budapest High School of Music 1935-42, Prof. of Musicology 1942 (Deputy Chair. 1951-); Music Critic Pester Lloyd 1939-44; Ed. monthly journal Magyar Zenei Szemle 1941-44; Music Adviser to Budapest Municipal Orchestra 1947-48; Ed. Zenei Szemle 1947-48, Zenetudományi Tanulmányok (with B. Szabolcsi) (Vols. 1-10) 1953-62; Studia Musicologica (with B. Szabolcsi) 1961–; mem. Directorium Int. Soc. of Musicology, American Musical Soc.; Neilson Prof. Smith Coll., Northampton, Mass. 1964: Visiting Prof. Harvard Univ. 1964-65, Cornell Univ. 1965-66, Univ. of Illinois 1966, Univ. Coll. Santa Barbara 1971, 1973; A. Mellon Prof. Univ. of Pittsburgh 1966-67, 1969-79; Dent Medal 1963 Erkel Prize 1969. *Publications:* include Egyetemes Zenetörténet (General History of Music) (2 vols.) 1935, Musik, Musikgeschichte, Musikleben in Ungarn 1940, Die ungarische Musik (with Zoltán Kodály) 1943, A Zenetörténet Antológiája 1948, 1970, Ötödfélszáz Enekek 1953, The Nine Symphonies of Beethoven 1956, 1958, 1970, J. S. Bach 1956, 1960, Haydn als Opernkapellmeister 1960, J. Haydn, Ges. Briefe und Dokumente Krit. Ausgabe 1965, Zenei Lexikon (3 vols.) 1965; Editor of La Canterina 1959, L'Infedeltà delusa 1964, Le Pescatrici 1972 (Haydn operas). *Leisure interests:* Alpinism, chess. *Address:* 1012 Budapest, I. Attila-ut. 87, Hungary. *Telephone:* 360-431.

BARTHELMEH, Hans Adolf, DIPL. KFM; German business executive; b. 19 Sept. 1923, Cologne; s. of Johann and Gertrud (née Weiler) Barthelmeh; m. Helene Fries 1950; one s.; until 1973 was Pres. and Chair. Man. Board, Ford-Werke AG, Cologne; Chair. Board of Dirs. Ford-Credit AG, Cologne; mem. Man. Board, Verband der Deutschen Automobilindustrie e.V., Frankfurt; mem. Board of Dirs. American Chamber of Commerce, Fed. Germany; mem. Industry Cttee. Chamber of Industry and Commerce, Cologne; mem. Regional Council Deutsche Bank AG, Board of Dirs., Deutsche Automobil-Treuhand GmbH until 1973; Pres. and Chair. Man. Board Gildemeister AG, Bielefeld 1975-; mem. Board of Dirs. Gildemeister Italiana S.p.A., Ponte S. Pietro, Gildemeister Maquinas Operatrizes S.A., Brazil. *Leisure interests:* swimming, walking, books on philosophy, psychology and history, playing the piano. *Address:* 4800 Bielefeld, Karl-Trieboldstrasse 6, Federal Republic of Germany. *Telephone:* 0521-402250.

BARTHOLOMEW, Frank H., LL.D.; American journalist; b. 5 Oct. 1898, San Francisco, Calif.; s. of John W. Bartholomew and Kate Leigh Schuck; m. Antonia L. Patzelt 1922; ed. Oregon State Univ.; joined United Press 1921, Pacific Div. Man. 1924-30, Vice-Pres. (Pacific Area) 1930; Pres. and Gen. Man. United Press Int. 1958-62, Chair. of the Board 1962-71, Dir. and Hon. Chair. 1972-; Dir. United Feature Syndicate, United Press Asscns. Co., Security Pacific Nat. Bank, Los Angeles, San Francisco Fed. Savings and Loan Assen., Balboa Club de Mazatlan, Mexico, Scripps-Howard Foundation, Cincinnati; General Omar N. Bradley Award; Pres. Buena Vista Vinicultural Soc., Sonoma, Calif.; war corresp. in Pacific 1942-45, China 1949, Korea 1950, Indo-China 1954. *Address:* 220 East 42nd Street, New York, N.Y. 10017 (Office); Glenbrook, Nevada 89413, U.S.A. (Home). *Telephone:* 514-626-6300.

BARTLETT, (Charles) Vernon (Oldfeld), C.B.E..; British author, politician and publicist; b. 30 April 1894, Westbury, Wilts.; s. of Thomas Oldfeld Bartlett and Beatrice Jecks; m. 1st Marguerite van den Bemden 1917 (died 1966), 2nd Eleanor Menzel (née Ritchie) 1969; one s.; fmrly. Reuters correspondent at Peace Conf.; subsequently The Times corresp. in Switzerland and Rome; London Dir. L.N. Secretariat 1922-32; speaker on international affairs for BBC 1928-34; Diplomatic Commentator News Chronicle 1934-54; Ed. World Review 1934-40; Independent M.P. for Bridgewater 1938-50; Political Commentator Straits Times, Singapore 1955-61. *Publications:* Journey's End (with R. C. Sherriff), Calf Love, This is my Life, East of the Iron Curtain, Struggle for Africa, And Now Tomorrow, Tuscan Retreat, A Book About Elba, Introduction to Italy, The Past of Pastimes, The Colour of Their Skin, Tuscan Harvest, Central Italy, Northern Italy, I Know What I Liked, etc. *Leisure interests:* exploring Italy, meeting people, swimming. *Address:* Middle Barn, Rimpton, nr. Yeovil, Somerset, England (Home).

BARTLETT, Paul Doughty; American professor of chemistry; b. 14 Aug. 1907, Ann Arbor, Mich.; s. of George Miller and Mary L. (Doughty) Bartlett; m. Mary Lula Court 1931; one s. two d.; ed. Amherst Coll. and Harvard Univ. Nat. Research Fellow, Rockefeller Inst. 1931-32; Instructor Univ. of Minnesota 1932-34, Harvard Univ. 1934-37: Asst. Prof. Harvard Univ. 1937-40, Assoc. Prof. 1940-46, Prof. 1946-48, Erving Prof. of Chem. 1948-75, Emer. 1975–; Robert A. Welch Research Prof., Texas Christian Univ. 1974-; guest lecturer at many American and European Univs.; exchange visitor Univ. of Leningrad 1961; Centenary Lecturer 1969, Ingold Lecturer 1974, Chemical Soc. London; Chair. Organic Division American Chemical Society 1948, Chair. North-eastern Section 1953-54; Pres.

Organic Division Int. Union of Pure and Applied Chemistry 1967-69; Chair U.S. Nat. Cttee. for Int. Union of Pure and Applied Chem. 1969; Program Chair. 23rd Int. Congress of Pure and Applied Chem. 1971; fmr. mem. editorial boards of The Journal of the American Chemical Society, Journal of Organic Chemistry, Journal of Polymer Science and mem. editorial advisory board of Tetrahedron; Guggenheim and Fulbright Fellow 1957; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Deutsche Akademie der Naturforscher Leopoldina; Hon. Fellow, Chemical Soc. (London); Hon. mem. Swiss Chemical Soc. 1972-, Japan Chem. Soc. 1978-; Hon. Sc.D. (Amherst Coll. and Univ. of Chicago), Dr. h.c. (Paris, Munich and Montpellier); many awards including American Chem. Soc. Award in Pure Chem. 1938, August Wilhelm von Hofmann Medal of Gesellschaft Deutscher Chemiker 1962, Willard Gibbs Medal (American Chem. Soc.) 1963, Roger Adams Award (A.C.S.) 1963, President's Nat. Medal of Science 1968, James Flack Norris Award in Physical Organic Chem. (American Chem. Soc.) 1969, John Price Wetherill Medal (Franklin Inst.) 1970, Linus Pauling Medal 1976, Nichols Medal 1976, Alexander v. Humboldt Sr. Scientist Award (Freiburg Univ.) 1976, (Munich Univ.) 1977; Guggenheim Fellowship 1971-72; James Flack Norris Award in Teaching of Chemistry 1978. *Publications:* Nonclassical Ions and about 220 research papers on reaction mechanisms in chemical journals. *Leisure interests:* skiing, skating, photography. *Address:* Texas Christian University, Fort Worth, Tex. 76129, U.S.A. (Office).

BARTLETT, Vernon (see Bartlett (C.) V. (O.)).

BARTON, Sir Derek Harold Richard, Kt., F.R.S., F.R.S.E.; British organic chemist; b. 8 Sept. 1918; ed. Tonbridge School and Imperial Coll., Univ. of London. Lecturer, Imperial Coll. 1945-59; Visiting Prof., Harvard Univ. 1949-50; Reader in Organic Chemistry, Birkbeck Coll., Univ. of London 1950-53, Prof. 1953-55; Regius Prof. of Chemistry, Glasgow Univ. 1955-57; Hoffman Prof. of Organic Chemistry, Imperial Coll. of Science and Technology, Univ. of London 1970- (Prof. 1957-70); Pedler Lecturer, Chem. Soc. 1967; Hon. Fellow, Deutsche Akad. der Naturforscher Leopoldina 1967; Hon. D.Sc. Univ. of Montpellier 1962, Univ. of Dublin 1964, City Univ. 1974; Nobel Prize for Chem. 1969; Foreign Assoc. U.S. Nat. Sciences 1970-; Royal Medal, Royal Soc. 1972; Chevalier Légion d'honneur; numerous other medals. *Address:* L'Institut de Chimie des Substances Naturelles, 91190 Gif-sur-Yvette, France. *Telephone:* 907-7828.

BARTON, John Bernard Adie, M.A.; British drama director and adaptor; b. 26 Nov. 1928, London; s. of Sir Harold Montagu Barton and Lady Joyce Barton (née Wale); m. Anne Righter 1968; ed. Eton Coll. and King's Coll., Cambridge. Drama Lecturer, Univ. of Berkeley, Calif. 1953-54; Fellow, King's Coll. Cambridge 1954-59; Asst. Dir. (to Peter Hall) Royal Shakespeare Co. 1959; Assoc. Dir. 1964-. *Publications:* The Hollow Crown, The Wars of the Roses; productions for R.S.C. include: The Wars of the Roses (adapted, edited, co-directed) 1963, Love's Labour's Lost 1965, 1978, All's Well That Ends Well, Julius Caesar, Troilus and Cressida 1968-69, Twelfth Night, When Thou Art King 1969-70, Othello, Richard II, Henry V 1971, Richard II 1973, Dr. Faustus, King John (co-dir.), Cymbeline (co-dir.) 1974-75, Much Ado About Nothing, Troilus and Cressida, The Winter's Tale, King Lear, A Midsummer Night's Dream, Pillars of the Community 1976, The Way of the World 1978, The Merchant of Venice, Love's Labour's Lost 1978. *Address:* Hillborough Manor, Bidford-on-Avon, Alcester, Warwickshire, England. (Home). *Telephone:* Bidford-on-Avon 2275.

BARTON, William Hickson; Canadian diplomatist; b. 10 Dec. 1917, Winnipeg, Man.; s. of Ernest J. and Norah M. (née Hickson) Barton; m. Jeanie Robinson 1947; one s.; ed. Univ. of British Columbia. Canadian Army 1940-46; Sec. Defence Research Board of Canada 1946-52; joined Dept. of External Affairs, Ottawa 1952; Counsellor, Canadian Embassy, Vienna 1956; Minister, Canadian Mission at UN, New York 1961; Dir.-Gen. UN Bureau, Dept. of External Affairs 1964; Asst. Under-Sec. of State for External Affairs 1970; Amb. and Perm. Rep. to Office of UN, Geneva 1972-76; Perm. Rep. to UN, New York 1976-; Hon. LL.D. (Mt. Allison) 1978. *Address:* Permanent Mission of Canada to the United Nations, 866 United Nations Plaza, Suite 250, New York, N.Y. 10017; Home; 550 Park Avenue, New York, U.S.A. *Telephone:* 751-5600

BARWICK, Rt. Hon. Sir Garfield Edward John, P.C., G.C.M.G., B.A., LL.B.; Australian lawyer and politician; b. 22 June, 1903, Sydney; s. of Jabez Edward Barwick and Lily Grace Barwick (née Ellicot); m. Norma Mountier Symons 1929; one s. one d.; ed. Fort St. Boys' High School Sydney, Sydney Univ.; admitted to N.S.W. Bar 1927, Victoria Bar 1945, Queensland Bar 1958; Pres. N.S.W. Bar Assn. 1950-52, 1955-56, Law Council of Australia 1952-54; mem. Fed. House of Reps. for Parramatta 1958-64; Attorney-Gen. 1958-64; Acting Minister for External Affairs Mar.-April, Aug.-Nov. 1959, April-June 1960, Minister for External Affairs Dec. 1961-64; Chief Justice of Australia 1964-; Chancellor Macquarie Univ., Sydney, 1967-78; Pres. Australian Inst. of Int. Affairs 1972-; Judge *ad hoc*, Int. Court of Justice 1973-74; Pres. Royal N.S.W. Inst. for Deaf and Blind Children 1976-; Leader, Australian Del. SEATO Council, Bangkok 1961, Paris 1963; UN Del. 1960, 1962-64; Australian Del. to ECAFE, Manila 1963; Australian Del. ANZUS, Canberra 1962, Wellington 1963; Hon. LL.D. (Sydney). *Leisure interests:* gardening, fishing, yachting. *Address:* Chambers of the Chief Justice, High Court of Australia, Sydney, N.S.W. (Office); Mundroola, George Street, Careel Bay, Sydney, N.S.W., Australia.

BARYSHNIKOV, Mikhail; fmrly. Soviet ballet dancer; b. 28 Jan. 1948, Riga, Latvia; s. of Nikolay Baryshnikov and Aleksandra (née Kisselov); ed. Riga Ballet School and Kirov Ballet School, Leningrad. Mem. Kirov Ballet Co. 1969-74; guest artist with many leading ballet cos. including American Ballet Theatre, Nat. Ballet of Canada, Royal Ballet, Hamburg Ballet, Fed. Repub. of Germany, Ballet Victoria, Australia, Stuttgart Ballet, Fed. Repub. of Germany, Alvin Ailey Co., U.S.A. 1974-; joined New York City Ballet Co. 1978; Gold Medal, Varna Competition, Bulgaria 1966, First Int. Ballet Competition, Moscow, U.S.S.R. 1968; Nijinsky Prize, First Int. Ballet Competition, Paris Acad. de Danse 1968. *Ballets (world premières):* Vestris 1969, Medea 1975, Push Comes to Shove 1976, Hamlet Connotations 1976, Other Dances 1976, Pas de Duke 1976; films: The Turning Point 1977, La Dame De Pique 1978; choreography: Nutcracker 1976, Don Quixote 1978. *Publications:* Baryshnikov at Work 1977. *Address:* c/o Edgar Vincent Associates, 145 East 52nd Street, New York, N.Y. 10022, U.S.A.

BARZEL, Rainer, DR. IUR.; German lawyer, civil servant and politician; b. 20 June 1924, Braunsberg, East Prussia; s. of Dr. Candidus Barzel and Maria Barzel; m. Kriemhild Schumacher 1948; one d.; ed. Gymnasium, Braunsberg (East Prussia), Berlin, and Univ. of Cologne. Air Force, Second World War; Civil Service, North Rhine-Westphalia, Ministry for Fed. Affairs 1949-56, resigned 1956; mem. Bundestag 1957-; Fed. Minister for All-German Affairs 1962-63; Exec. mem. Christian Democrat Party (CDU), First Deputy Chair. CDU and Chair. CDU/CSU in Bundestag 1964-73; Chair. CDU 1971-73; Chair. Econ. Affairs Cttee. of Bundestag 1977–. *Publications:* Die geistigen Grundlagen der politischen Parteien 1947, Souveränität und Freiheit 1950, Die deutschen Parteien 1951, Gesichtspunkte eines Deutschen 1968, Es ist noch nicht zu spät 1976, Auf dem Drahtseil 1978. *Leisure interests:* skating, curling, archaeology. *Address:* Ferdinandstrasse 4, 479 Paderborn/W., Federal Republic of Germany. *Telephone:* 02221-16-2565.

BARZINI, Luigi, B.LITT.; Italian journalist and writer; b. 21 Dec. 1908, Milan; s. of Luigi and Mantica (née Pesavento) Barzini; m. 1st Giannalisa Gianzana 1940; m. 2nd Paola Gadola 1949; five c.; ed. School of Journalism, Columbia Univ., New York. Special Corresp. Corriere della Sera 1931-40; Ed. and Pubr. Il Globo, Rome 1944-47; contributor to Italian and other magazines; columnist with Corriere della Sera 1978-; mem. Italian Chamber of Deputies 1958-72; Liberal. *Publications:* Americans are Alone in the World 1953, I Disarmati 1957, Mosca Mosca 1961, The Italians 1964, l'Europa Domani Mattina 1964, From Caesar to the Mafia 1971, L'Antropometro Italiano 1973, When You and I were Young, O America! 1977. *Leisure interest:* riding. *Address:* 1055 Via Cassia, Tomba di Nerone, Rome, Italy. *Telephone:* 366-1925.

BARZUN, Jacques, PH.D.; American university professor and writer; b. 30 Nov. 1907, Créteil, France; two s. one d.; ed. Lycée Janson de Sailly and Columbia Univ. Instructor in History, Columbia Univ. 1929, Asst. Prof. 1938, Assoc. Prof. 1942, Prof. 1945-, Dean of Graduate Faculties 1955-58, Dean of Faculties and Provost 1958-67, Seth Low Prof. 1960, Univ. Prof. 1967-75, chancellor 1978–. Literary Adviser, Scriner's 1975-; mem. Acad. Delphinale (Grenoble), American Acad. and Inst. of Arts and Letters (Pres. 1972-75, 1977-), American Historical Assn., Royal Soc. of Arts, American Arbitration Assn.; Dir. Council for Basic Educ., New York Soc. Library, Open Court Publications Inc., Peabody Inst.; mem. Advisory Council, Univ. Coll. at Buckingham; Chevalier de la Légion d'honneur; Extraordinary Fellow, Churchill Coll., Cambridge 1961. *Publications:* The French Race 1932, Race: A Study in Modern Superstition 1937, Of Human Freedom 1939, Darwin, Marx, Wagner 1941, Teacher in America 1945, Berlioz and the Romantic Century 1950, God's Country and Mine 1954, The Energies of Art 1956, Music in American Life 1956, The Modern Researcher 1957 (with H. Graff), The House of Intellect 1959, Classic, Romantic and Modern 1961, Science, the Glorious Entertainment 1964, The American University 1968, A Catalogue of Crime (with W. Taylor) 1971, On Writing, Editing and Publishing

1971, The Use and Abuse of Art 1974, Clio and the Doctors 1974, Simple and Direct 1975; Editor Pleasures of Music 1951, The Selected Letters of Lord Byron 1953, New Letters of Berlioz (and trans.) 1954, The Selected Writings of John Jay Chapman 1957, Modern American Usage (with others); Trans.: Diderot: Rameau's Nephew 1952, Flaubert's Dictionary of Accepted Ideas 1954, Evenings with the Orchestra 1956, Courteline: A Rule is a Rule 1960, Beaumarchais: The Marriage of Figaro 1961. *Address:* 597 Fifth Avenue, New York, N.Y. 10017, U.S.A.

BASALDELLA, Afro; Italian painter; b. 1912; ed. Acad. of Fine Arts, Venice. Works under the name of Afro; represented in the most important museums of U.S.A. and Europe; executed design for Ritratto di Don Chisciotte Rome 1957; first prize Venice Biennale 1956, second prize Pittsburgh Int. 1959, UNESCO Award, Paris. *Address:* Via Nicolo Tartaglia 3, Rome, Italy.

BASFORD, Hon. (Stanley) Ronald, P.C., B.A., LL.B., Q.C., Canadian politician; b. 22 April 1932, Winnipeg, Man.; s. of Douglas and Elizabeth Basford; m. Madeleine Nelson Kirk 1967; one s. one d.; ed. Univ. of British Columbia; practised in Vancouver law firm; mem. of Parl. for Vancouver 1963-79; observer to many int. confs.; Co-Chair. Joint Commons-Senate Cttee. on Consumer Credit and Cost of Living 1967; Minister of Consumer and Corporate Affairs 1968, of Urban Affairs 1972, of Nat. Revenue 1974, of Justice and Attorney-General 1975-78; Liberal. *Leisure interest:* fishing. *Address:* 31 Holborn, Ottawa, Ont., Canada (Home).

BASIE, William ("Count"); American Jazz and blues musician; b. 21 Aug. 1904, Red Bank, N.J.; plays piano and occasionally organ; started playing in Harlem clubs; played with Walter Page Blue Devils, Kansas City; joined Bennie Moten Orchestra, Leader of renamed Count Basie Orchestra 1936-; debut in New York 1938; first appearance at Carnegie Hall 1939; first European tour 1954, first S. American tour 1969, has also toured Canada and Japan; played Inaugural Ball for Pres. Kennedy 1961; Royal Command Performance, U.K. 1966; has performed with Frank Sinatra, Tony Bennett, Ella Fitzgerald, Sammy Davis, Jr., etc., numerous concert, night club and television appearances, has played at all the major jazz festivals, including the Newport Jazz Festival, Int. Jazz Festival, France; Band awards include Esquire Silver Award, Downbeat Readers' Poll 1955, Metronome Poll, Downbeat Int. Critics' Poll 1956, and many others. Film appearances in Reveille with Beverly 1942, Stage Door Canteen, Mr. Big, Crazy House, Cinderfella 1960, Blazing Saddles 1974. *Compositions include:* One O'Clock Jump, The Mad Boogie. *Address:* c/o Willard Alexander Inc., 660 Madison Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* (212) 751-7070.

BASMACI, Ferid; Turkish banker; b. 13 Feb. 1911, Istanbul; m. Faize Basmaci 1938; two d.; ed. Faculty of Econs. and Commerce, Istanbul. Treas. Türkiye Iş Bankası 1953-58. Vice-Pres. 1958-60, Man. Galata Branch 1960-66, Senior Vice-Pres. 1966-67, Pres. 1967; Chair. Sinaî Yatırım ve Kredi Bankası 1967, Minin Bank 1969-, Industrial Devt. Bank of Turkey 1969. *Address:* Vali Dr. Reşit Caddesi 73, Çankaya, Ankara, Turkey (Home). *Telephone:* 124383 (Home).

BASOV, Aleksandr Vasiliyevich, M.SC.; Soviet politician and diplomatist; b. 20 March 1912, Stanitsa Baklanovskaya, Tsimlaynsk district, Rostov region; ed. Vologda Agricultural Inst. Veterinary Inst. 1930-42; teacher 1942-54; Sec. Rostov Regional Cttee., CPSU 1954-55; Chair. Rostov District Exec. Cttee. 1955-60; First Sec. Rostov District Cttee., CPSU 1960-62; Cen. Cttee, CPSU 1961-76; Counsellor, Cuba 1962-65; Minister of Agriculture of R.S.F.S.R. 1965; Amb. to Romania 1965-71, to Chile 1971-73. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

BASOV, Nikolay Gennadiyevich; Soviet physicist; b. 14 Dec. 1922, Voronezh; s. of Prof. Gennadiy Fedorovich Basov and Zinaida Andreyevna Molchanova; m. Kseniya Tikhonovna Nazarova 1950; two s.; ed. Moscow Inst. of Physical Engineers. P. N. Lebedev Physical Inst. 1950-; Vice-Dir. 1958-72, Dir. 1973-; founded Laboratory of Quantum Radio-physics 1963-; Prof. Moscow Inst. of Physical Engs. 1963-; Deputy to U.S.S.R. Supreme Soviet 1974-; mem. CPSU 1951-; Corresp. U.S.S.R. Acad. of Sciences 1962-66, Academician 1966-, mem. Presidium 1967-; mem. Optical Soc. of America, Deutsche Akad. der Wissenschaften, Berlin, Deutsche Akad. der Naturforscher Leopoldina, Bulgarian Acad. of Sciences, Polish Acad. of Sciences, Czechoslovak Acad. of Sciences, Polish Military-Tech. Acad., Royal Swedish Acad. of Eng. Sciences, Prague Polytechnic Inst., Jena Univ., Pavia Univ., Italy; Vice-Chair. Exec. Council of World Fed. of Scientific Workers 1976, All-Union Soc. Znanie, U.S.S.R. 1977; Ed. Priroda (Nature) popular science magazine, Soviet Journal of Quantum Electronics; Lenin Prize 1959, Nobel Prize for Physics 1964, Order of Lenin 1967, 1972, 1975, Hero of Socialist Labour 1969, Gold Medal of Czechoslovak Acad. of Sciences 1975, A. Volta Gold Medal 1977. *Leisure interests:* photography, skiing. *Address:* P. N. Lebedev Physical Institute of the Academy of Sciences, 53 Leninsky Prospect, Moscow, U.S.S.R. (Office).

BASS, Robert Olin, B.S.; American business executive; b. 22 July 1917, Denver; s. of Olin R. and Cora (née Durham) Bass; m. Isabelle Cantrell 1941; one d.; ed. Univ. of Denver. Pres. Eberhardt- Denver Co. 1956; Exec. Vice-Pres., Asst. Gen. Man., Morse Chain Co., Ithaca 1956-58, Pres. 1958-66; Group Vice-Pres. Industrial, Borg-Warner Corpn., Chicago 1966-68, Exec. Vice-Pres. 1968-75, Pres. and Chief Operating Officer 1975-. *Leisure interests:* trout fishing, collecting Navajo rugs. *Address:* Borg-Warner Corporation, 200 South Michigan Avenue, Chicago, Ill. 60604, U.S.A. (Office); *Telephone:* (312) 322-8515 (Office).

BASSANI, Giorgio; Italian writer; b. 1916; ed. Univ. of Bologna. Chief Ed. Botteghe Oscure 1948-60, Dir. of Literary Series with Feltrinelli including Il Gattopardo, G. di Lampedusa 1957-63; Teacher History of Theatre, Acad. d'Arte Drammatica 1957-68; Vice-Pres. Radio Televisione Italiana 1964-65; Strega Prize 1956, Viareggio Prize 1962, Campiello Prize 1969, Nelly Sachs Prize 1969. *Publications:* Cinque storie ferraresi 1956, Gli occhiali d'oro (novel) 1958, Il giardino dei Finzi-Contini (novel) 1962, L'alba ai vetri (poems) 1963, Dietro la porta (novel) 1964, Le parole preparate (essays) 1966, L'airone (novel) 1968, Heron 1970, Epitaffio (poems) 1974. *Address:* Via G. B. De Rossi 33, Rome, Italy.

BASSON, Jacob Daniel du Plessis ("Japie"), B.A.; South African politician; b. 1918, Paarl, Cape Province; s. of late Senator and of Mrs Daniel J. Basson; m. Clarence Strauss 1947; two d.; ed. Stellenbosch Univ. Political sec. and journalist in Repub. and S.W. Africa 1939-50; S. African Parl. for Namib, S.W. Africa 1950-59 (Nat. Party of S.W.A.); expelled from Nat. Party Caucus over differences concerning Govt.'s race policies 1959; Independent M.P., leading extra-Parl. Political Group (The Nat. Union) 1959-61; merger of Nat. Union with United Party (official opposition party) 1961; M.P. (United Party) for Bezuidenhout, Johannesburg 1961-; Leader United Party in the Transvaal 1975-77; after disbandment of United Party and formation of Progressive Federal Party (official opposition party) 1977, became Deputy Chair. PFP 1977-; Chair. of PFP Parliamentary Caucus 1978-; Shadow Minister of Foreign Affairs. *Leisure interests:* reading, gardening, swimming. *Address:* House of Assembly, Cape Town (Office); Box 66123, Broadway, Johannesburg 2020, South Africa. *Telephone:* 43-1198 (Cape Town); 616-2918 (Johannesburg).

BASTID, Suzanne; French lawyer; b. 15 Aug. 1906, Rennes; d. of Jules Basdevant and Renée Mallarmé; m. 1937; three d.; ed. Lycée de Grenoble, Lycée de Fénelon, Paris, and Univ. de Paris à la Sorbonne. Prof., Faculty of Law, Lyon 1933-46, Paris 1946-77; Prof. Inst. d'Etudes Politiques, Univ. de Paris 1946-78; Pres. Admin. Tribunal, UN 1952-68, Vice-Pres, 1969-; Sec.-Gen. Inst. of Law 1963-69, First Vice-Pres. 1969-71; Pres. Soc. Française pour le Droit International; mem. French Del. to UN Gen. Assembly (4th to 13th Sessions); French Del. 20th UNESCO Conf.; mem. Acad. des Sciences Morales et Politiques; Commdr. Légion d'honneur, Commdr. Royal Order of Sahametri (Cambodia). *Publications include:* Les fonctionnaires internationaux, Jurisprudence de la cour internationale de justice, Les tribunaux administratifs internationaux et leur jurisprudence, Les questions territoriales devant la C.I.J.; Ed. L'Annuaire français de droit international 1955-. *Leisure interest:* gardening. *Address:* 88 rue de Grenelle, 75007 Paris, France. *Telephone:* 548 63 34.

BASTYAN, Lieut.-Gen. Sir Edric (Montague), K.C.M.G., K.C.V.O., K.B.E., C.B.; British army officer and Australian governor; b. 5 April 1903; ed. Royal Military Coll., Sandhurst. Army career began as Second Lieut. Sherwood Foresters 1923, rising to Chief Admin. Officer, Eighth Army 1943; Maj.-Gen. in charge Admin., Allied Land Forces, S.E. Asia 1944-45; Imperial Defence Coll. 1946; Maj.-Gen. in charge Admin., British Army of the Rhine 1946-48; employed on special duties, War Office 1949; Chief of Staff, Eastern Command 1949-50; Dir. of Staff Duties, W.O. 1950-52; Commdr. 53rd (Welsh) Infantry Div. (T.A.) and Mid-West District 1952-55; Vice-Adjutant-Gen. War Office 1955-57; Lieut-Gen. 1957; Commdr., British Forces, Hong Kong 1957-60; retd. 1960; Gov. of South Australia 1961-68; Gov. Tasmania 1968-74; Hon. Col. Royal Tasmania Regiment 1969; Hon. Air Commodore No. 24 Squadron, R.A.A.F.; Kt.St.J. 1961. *Leisure interests:* golf, tennis, painting. *Address:* Flat 42, 52 Brougham Place, North Adelaide, S.A. 5006, Australia.

BATA, Thomas John, C.C.; Canadian shoe executive; b. 17 Sept. 1914, Prague, Czechoslovakia; s. of the late Thomas Bata and Marie Bata; m. Sonja Ingrid Wettstein; one s. three d.; ed. privately and

Acad. of Commerce, Uherske Hradiste. Pres. Bata Ltd.; Chair. of Bata Shoe Co. of Canada Ltd. 1939-, British Bata Shoe Co. Ltd. 1946-, Bata Industries Ltd., Dir. and officer of several cos. connected with Bata Group; Dir. IBM Canada Ltd., Toronto and Canadian Pacific Airlines; Dir. American Management Assn. 1958-61, Canadian Council Int. Chamber of Commerce, Canadian Exec. Service Overseas; Chair. Standing Group on Devt. Aid and Private Investment for the Business and Industry Advisory Cttee., OECD; [illegible] Board of Govs. Canadian Assn. for Latin America, Canadian Export Assn., Toronto Arts Foundation, Stratford Shakespearean Festival Foundation; Founding [illegible] and mem. Planning Council, The President's Professional Assn. (U.S.A.) 1961; Founder and fmr. Dir. Young President's Assn.; mem. Chief Execs. Forum, Canadian Inst. of Int. Affairs, Canadian Econ. Policy Cttee., Board of Dirs. Nat. Ballet Guild of Canada; Vice-Chair. Board of Govs., Trent Univ., Peterborough, Ont. *Address:* Batawa, Ontario; 44 Park Lane Circle, Don Mills, Ontario, Canada (Homes).

BATEMAN, Leslie Clifford, C.M.G., D.SC., PH.D., F.R.S.; British scientist; b. 21 March 1915, Yiewsley; s. of Charles Samuel Bateman and Florence Skinner; m. 1st Marie Pakes 1945 (died 1967); two s.; m. 2nd Eileen Jones 1973; ed. Univ. Coll., London, and Oriel Coll., Oxford. Chemist, Natural Rubber Producers' Research Assn., England 1941-53, Dir. of Research 1953-62; Controller of Rubber Research, Malaysia 1962-74, Special Adviser, Malaysian Rubber Research and Devt. Board 1974-75; Sec.-Gen. Int. Rubber Study Group 1976-; Colwyn Medal 1962, Jubilee Foundation Lecturer 1971, Inst. of the Rubber Industry; Hon. D.Sc. (Malaya) 1968, (Aston) 1972; Fellow, Univ. Coll., London 1974; Panglima Setia Makhota, Malaysia 1974. *Publications:* Ed. and contributor to The Chemistry and Physics of Rubber-like Substances 1963; numerous publs. in Journal of Chemical Society, etc. and on the techno-economic position of the natural rubber industry. *Leisure interests:* outdoor activities, particularly cricket and golf. *Address:* 3 Palmerston Close, Welwyn Garden City, Herts., AL8 7DL, England (Home). *Telephone:* Welwyn Garden 22391 (Home).

BATEMAN, Sir Ralph (Melton), K.B.E., M.A., F.C.I.S.; British business executive; b. 15 May 1910, Rochdale, Lancs.; s. of the late Dr. and Mrs. W. H. Bateman; m. Barbara Yvonne Litton 1935; two s. two d.; ed. Epsom Coll. and Univ. Coll., Oxford. Turner and Newall Ltd. 1931-, Dir. 1957-, Deputy Chair, and Joint Man. Dir. 1959-67, Chair. 1967-76; Pres. of Confed. of British Industry 1974-76; Chair. Stothert and Pitt 1977-; Dir. Certain-teed Products Corpn. of Phila. U.S.A., Cassiar Asbestos Corpn. Ltd. of Toronto, Canada, Furness, Withy and Co.; mem. Nat. Econ. Devt. Council; Gov. Nat. Inst. of Econ. and Social Research; Fellow British Inst. of Management, Chartered Inst. of Secs., Royal Soc. of Arts; mem. Council of Manchester Business School, mem. Court, Manchester Univ., Univ. of Salford; fmr. Chair. Board of Govs., Ashridge Coll. of Management; Hon. D.Sc. (Univ. of Salford). *Leisure interests:* family and social affairs, tennis. *Address:* Turner and Newall Ltd., 77-79 Fountain Street, Manchester, M2 2EA (Office); Highfield, Withinlee Road, Prestbury, Cheshire, England (Home). *Telephone:* 061-236 9381.

BATENBURG, Andries, DR. ECON.; Netherlands banker; b. 11 Oct. 1922, Rotterdam; s. of A. Batenburg and C. C. Keller; m. Margaretha Hartman 1949; two d.; ed. Netherlands Econ. Univ.; joined Nederlandsche Handel-Maatschappij N.V. 1948; Man. Dir. Algemene Bank Nederland N.V. 1966, mem. Presidium 1970, Chair. Managing Board Sept. 1974-. *Publications:* Enkele Hoofdlijnen van de Monetaire Politiek (Some Principal Aspects of Monetary Policy). *Address:* Algemene Bank Nederland N.V., Vijzelstraat 32, Amsterdam, Netherlands (Office).

BATES, Alan; British actor; b. 17 Feb. 1934, Allestree, Derbys.; s. of Harold A. Bates and Florence M. Wheatcroft; m. Victoria Ward 1970; twin s.; ed. Belper Grammar School and Royal Acad. of Dramatic Art (RADA); spent one year with Midland Repertory Co., Coventry; subsequent stage appearances in London include roles in The Mulberry Bush, Look Back in Anger (also in Moscow and New York), The Country Wife, In Celebration, Long Day's Journey into Night (also at Edinburgh Festival), The Caretaker (also in New York), The Four Seasons, Hamlet (also in Nottingham), Butley (also in New York, Los Angeles and San Francisco), Life Class, Otherwise Engaged 1975-76, The Seagull 1976; has also appeared at Canadian Shakespeare Festival, Stratford, Ont. in title role of Richard III and [illegible] Ford in The Merry Wives of Windsor; also in Poor Richard (New York), Venice Preserved (Bristol), The Taming of the Shrew (Stratford-upon-Avon); received Tony Award for Butley, Broadway, New York 1973, Variety Club Award for Otherwise Engaged 1975. *Films:* The Entertainer 1960, Whistle Down the Wind 1961, A Kind of Loving 1962, The Running Man 1962, The Caretaker 1963, Nothing but the Best 1964, Zorba the Greek 1965, Georgy Girl 1965, King of Hearts 1966, Far from the Madding Crowd 1966, The Fixer 1967, Women in Love 1968, The Three Sisters 1969, The Go-Between 1971, A Day in the Death of Joe Egg 1972, Butley 1973, The Impossible Object 1973, In Celebration 1974, Royal Flash 1974, An Unmarried Woman 1977, The Shout 1977, The Rose 1978, Nijinsky 1979. T.V.: Two Sundays, Plaintiff and Dependant, The Collection, The Mayor of Casterbridge. *Leisure interests:* squash, swimming, tennis, driving, travelling, reading. *Address:* c/o Michael Linnit, Chatto & Linnit Ltd., Globe Theatre, Shaftesbury Avenue, London, W.1, England.

BATITSKY, Marshal Pavel Fedorovich; Soviet army officer and politician; b. 27 June 1910, Kharkov, Ukraine; ed. Frunze Military Acad., and Acad. of General Staff. Soviet Army 1924-; mem. CPSU 1938-; Chief of Div. Staff, then Div. and Corps Commdr. 1941-45; Area Mil. Commdr. 1948-50; Chief of Gen. Staff, Soviet Army Air Force 1950-53; First Deputy Commdr. Area Anti-Aircraft Defence 1953-54, Commdr. 1954-65; First Deputy Chief Gen. Staff Soviet Armed Forces 1965-66; C.-in-C. U.S.S.R. Anti-Aircraft Defence, Deputy Minister of Defence 1966-; Cand. mem. Central Cttee. of CPSU 1961-66, mem. 1966-; Deputy to U.S.S.R. Supreme Soviet; Hero of the Soviet Union, Order of Lenin (four times), Order of Kutuzov (twice), Order of Suvorov (second class), Order of Red Banner (five times), Order of the October Revolution and other decorations. *Address:* c/o Ministry of Defence, 34 Naberezhnaya M. Thoreza, Moscow, U.S.S.R.

BATLINER, Gerard, D.IUR.; Liechtenstein lawyer; b. 9 Dec. 1928, Eschen; s. of Andreas and Karolina Batliner; m. Christina Negele 1965; two s.; ed. Grammar School, Schwyz, Switzerland, and Univs. of Zürich, Fribourg, Paris, and Freiburg im Breisgau; practice at County Court of Principality of Liechtenstein 1954-55; Lawyer, Vaduz 1956-62; Vice-Pres. Progressive Burgher Party 1958-62; Vice-Mayor of Eschen 1960-62; Head of Govt. of Principality of Liechtenstein 1962-70; Pres. Liechtenstein Parl. 1974-78, Vice-Pres. 1978-; Head of Liechtenstein Parl. Del. to the Council of Europe 1978-; Ed.-in-Chief Liechtenstein Politische Schriften (Liechtenstein Political Publications); Fürstlicher Justizrat 1970; Grand Cross of the Liechtenstein Order of Merit. *Address:* Am Schrägen Weg 2, FL-9490 Vaduz, Liechtenstein. *Telephone;* 2-24-24.

BATMÖNH, Jambyn; Mongolian politician; b. 10 March 1926; ed. Mongolian State Univ. and Acad. of Social Sciences of CPSU Central Cttee., U.S.S.R. Lecturer, Mongolian State Univ. and Pedagogical Inst. 1951-52; lecturer, Vice-Rector, Higher Party School of Mongolian People's Revolutionary Party (MPRP) Cen. Cttee. 1952-58; Head of Dept., Vice-Rector, Rector, Higher School of Econs. 1962-67; Vice-Rector, Rector, Mongolian State Univ. 1967-73; Head of Science and Educ. Dept., MPRP Cen. Cttee. 1973-74; Deputy Chair. Council of Ministers May-June 1974, Chair. June 1974-; cand. mem. MPRP Cen. Cttee. 1971-76; mem. Cen. Cttee. 1976-, mem. Political Bureau, MPRP Cen. Cttee. 1974-; deputy to People's Great Hural (Assembly); Order of Sühbaatar. *Address:* Government Palace, Ulan Bator, Mongolia.

BATOV, Gen. Pavel Ivanovich; Soviet army officer; b. 1 June 1897, Filisovo Village, Yaroslav Region. Tsarist Army 1915-17, Red Army 1918-; mem. Communist Party 1929-; served in Spanish Civil War 1936-37, gravely wounded; Corps Commdr. 1937; served as Div. Commdr. in Finland War 1939-40; Commdr. Transcaucasian Mil. District 1940-41; Deputy Commdr. Bryansk front 1942; made Commdr. 65th Army 1942; served in Stalingrad, Byelorussia, Poland, Berlin 1942-45; Commdr. Soviet forces in Germany 1945-49; Commdr. Kaliningrad Mil. District 1949-55, Carpathian Mil. District 1955-58, Baltic Mil. District 1958-60, U.S.S.R. Southern Army Group (Hungary) 1960-62; Chief of Staff, Joint Armed Forces of Warsaw Pact Org. 1962-65; First Deputy Chief of Staff Soviet Armed Forces 1962-66; Insp.-Gen. Ministry of Defence 1966-70; Chair. Soviet Cttee. of Veterans 1970-; Deputy to Supreme Soviet of U.S.S.R. until 1970; Order of Lenin (five times), Hero of the Soviet Union (twice), Order of Suvorov (three times), Order of Kutuzov, Order of Red Banner (three times), Order of the October Revolution, etc. *Publications include:* In Battles and On the March 1962, The Oder Operation 1965, Trusty Shield 1965. *Address:* Soviet Committee of Veterans, Gogol Boulevard 4, Moscow, U.S.S.R.

BATT, Neil Leonard Charles; B.A.(Hons); Australian politician; b. 14 June 1937, Hobart; s. of Clyde Wilfred Luke and Miriam (née Wilkie) Batt; m. Anne Cameron Teniswood 1962; three d.; ed. Hobart High School, Univ. of Tasmania. Secondary School teacher 1960-61 and 1964-66; mem., House of Ass., Tasmanian Parl. 1969-; Minister of Transport and Chief Sec. 1972-74, Minister for Educ. 1974-77, Deputy Premier, Treasurer and Minister for Econ. Planning and Devt. 1977-; Nat. Pres., Australian Labor Party 1978.

Leisure interests: swimming, surfing, yachting. *Publications:* The Great Depression in Australia 1970, the Role of the University Today 1977, Information Power 1977. *Address:* Executive Buildings, Franklin Square, Hobart, Tasmania 7000 (Office); 24 Clare Street, New Town, Tasmania 7008, Australia (Home). *Telephone:* 30 3458 (Office); 281206 (Home).

BATTEN, Jean Gardner, C.B.E.; New Zealand aviator; b. 1909; ed. Cleveland House Coll., Auckland; obtained flying licence 1930, commercial pilot's licence 1932; London Aeroplane Club; made solo flights England-India 1933, England-Australia (woman's record) 1934, Australia-England (first woman to complete return flight) 1935, England-Brazil (world record 61¼ hours; fastest crossing of S. Atlantic 13¼ hours; first England-S. America and solo S. Atlantic flight by woman) 1936, England-New Zealand (first direct flight 11 days, establishing record England-Australia solo 5 days 21 hours, fastest Sydney-Auckland flight (10½ hours)) 1937, Australia-England (solo record 5 days 18 hours 15 minutes) 1937; many trophies and medals, including those of Fédération Aéronautique Internationale 1938, and City of Paris 1971; Chevalier Légion d'honneur, Officer Order of Southern Cross of Brazil, Jean Batten Archive, Royal Air Force Museum, Hendon, London. *Publication:* My Life 1938. *Leisure interests:* travelling, music, swimming. *Address:* c/o Barclays Bank Ltd., 25 Charing Cross Road, London WC2H 0HZ, England.

BATTEN, William Milfred, B.S.; American business executive; b. 4 June 1909, Reedy, W. Va.; s. of Lewis A. Batten and Gurry Goff; m. Kathryn Pherabe Clark 1935; one s. one d.; ed. Parkersburg High School, W. Va. and Ohio State Univ. Salesman, Section Man., Asst. Man., J. C. Penney Co. store, Lansing, Mich. 1935-40; Training Dir. Personnel Dept. J. C. Penney Co., New York 1940-42; consultant in Organization Planning & Control Div. Office of Q.M.G., Washington 1942; military service, Office of Q.M.G., U.S. Army as Lieut.-Col. 1942-45; Zone Personnel Rep. (Eastern Zone), J. C. Penney Co., New York 1945-51, Asst. to Pres. 1951-58, Vice-Pres. 1953-58, Pres. 1958-64, Chair. of Board 1964-74; Dir. New York Stock Exchange 1972-74, Chair. May 1976-; Trustee Woodrow Wilson Int. Center for Scholars; Dir. American Telephone and Telegraph Co., Boeing Co., First Nat. City Bank, First Nat. City Corpn.; Chair. Business Council 1971-72; Hon. LL.D. (Alderson-Broaddus Coll., Morris Harvey Coll. and W. V. Univ.), Hon. L.H.D. (Marietta Coll.). *Address:* 1 Wall Street, New York, N.Y. 10005 (Office); Mill Neck, Long Island, N.Y. 11765, U.S.A. (Home).

BATTERSBY, Alan Rushton, PH.D., D.SC., SC.D., F.R.S.; British chemist; b. 4 March 1925, Leigh; s. of William and Hilda Battersby; m. Margaret Ruth Hart 1949; two s.; ed. Leigh Grammar School, Manchester Univ., St. Andrews Univ. Lecturer in Chem., St. Andrews Univ. 1948-53, Bristol Univ. 1954-62; Prof. of Organic Chem., Liverpool Univ. 1962-69; Cambridge Univ. 1969-; Hon. D.Sc. (Rockefeller Univ.) 1977, Hon. LL.D. (St. Andrew's Univ.) 1977; Corday-Morgan Medal and Prize 1961, Tilden Lectureship and Medal 1963, Hugo Müller Lectureship and Medal 1972, Flintoff Medal 1975, Paul Karrer Medal 1977, Davy Medal 1977, Max Tishler Award and Lectureship (Harvard) 1978. *Publications:* original papers in the major chemical journals. *Leisure interests:* sailing, gardening, trout fishing, music. *Address:* University Chemical Laboratory, Lensfield Road, Cambridge, CB2 1EW (Office); 20 Barrow Road, Cambridge, CB2 2AS, England (Home). *Telephone:* 0223-66499 (Office); 0223-63799 (Home).

BATTLE, Lucius Durham, A.B., LL.B.; American educationist; b. 1 June 1918, Dawson, Ga.; s. of Warren L. Battle and Jewel B. Durham; m. Betty Davis 1949; two s. two d.; ed. Univ. of Florida. Man. of student staff, Univ. of Florida Library 1940-42; Assoc. Admin. Analyst, War Dept. 1942-43; U.S. Naval Reserve 1943-46; Foreign Affairs Specialist, Dept. of State, Washington 1946-49; Special Asst. to Sec. of State 1949-53, 1961-64, also Exec. Sec. Dept. of State 1961-62; First Sec., Copenhagen 1953-55; Deputy Exec. Sec. NATO, Paris 1955-56; Asst. Sec. of State for Educational and Cultural Affairs 1962-64; Amb. to United Arab Republ. 1964-67; Asst. Sec. of State for Near Eastern and S. Asian Affairs, Washington 1967-68; Vice-Pres. for Corporate Affairs, Communications Satellite Corpn., Washington, D.C. 1968-73, Senior Vice-Pres. for Corporate Affairs 1974-; Pres. Middle East Inst., Washington, D.C., 1973-74; Chair. UNESCO Gen. Conf., Paris 1962; Vice-Pres. Colonial Williamsburg Inc., Williamsburg Restoration Inc. 1956-61; Pres. Bacon House Foundation; Trustee, Meridan House Int., American Univ. Cairo; mem. Board of Dirs. Foreign Policy Assn., School of Advanced Int. Studies, Middle East Inst., George C. Marshall Research Foundation; mem. Advisory Board Faith and Hope, WAFA WAL AMAL, Center for Contemporary Arab Studies, Georgetown Univ., Inst. for Psychiatry and Foreign Affairs; mem. American Foreign Service Assn. (Pres. 1962-63), Nat. Study Comm. on Records and Documents of Federal Officials, Dept. of State Fine Arts Cttee.; Communications exec. Dir. COMSAT Gen. Corpn. *Address:* 4856 Rockwood Parkway, N.W. Washington, D.C. 20016, U.S.A. (Home).

BATTS, Warren Leighton; American business executive; b. 9 April 1932, Norfolk, Va.; s. of John Leighton and Allie Belle (née Johnson) Batts; m. Eloise Pitts 1957; one d.; Georgia Inst. of Tech., Harvard; with Kendall Co. 1963-64; Exec. Vice-Pres. Fashion Devt. Co. 1964-66; Vice-Pres., Douglas Williams Assocs. 1966-67; Founder, Triangle Corpn. 1967, Pres. and Chief Exec. Officer 1967-71; Vice-Pres., Mead Corpn. 1971-73, Pres. 1973-, Chief Exec. Officer 1978-; Chair., Nat. Advisory Bd. 1974-; Dir., First Nat. Bank and Holding Co., Atlanta, B.C.F.P. *Publications:* Creative Collective Bargaining, (with others) 1964. *Address:* The Mead Corporation, Courthouse Plaza, N.E. Dayton, Ohio 45463 (Office); 1120 Harman Avenue, Dayton, Ohio 45419, U.S.A. (Home). *Telephone:* (513) 222-6323 (Office); (513) 293-7118 (Home).

BATTY, Sir William (Bradshaw), Kt.; retd. British motor executive; b. 15 May 1913, Manchester; s. of Rowland and Nellie Batty; m. Jean Ella Brice 1946; one s. one d.; ed. Hulme Grammar School, Manchester. Apprentice toolmaker, Ford Motor Co. Ltd. 1930, company trainee 1933; Man. Tractor Div. 1955; Gen. Man. Tractor Group 1961; Dir. of Car and Truck Group 1964; Exec. Dir. Ford Motor Co. Ltd. 1963, Man. Dir. 1967-73, Chair. 1972-76; Dir. Henry Ford and Son Ltd., Cork 1965-76; Chair. Ford Motor Credit Co. Ltd. 1968-76, Automotive Finance Ltd. 1970-76; Dir. Ford Lusitana SARL, Portugal 1973-76; Pres. Soc. of Motor Mfrs. and Traders 1975-76, Vice-Pres. 1976-. *Leisure interests:* golf, sailing, gardening. *Address:* Glenhaven Cottage, Riverside Road West, Newton Ferrers, Plymouth, Devon, England (Home). *Telephone:* Plymouth 872415 (Home).

BAUDET, Philippe; French diplomatist; b. 29 Aug. 1901, Argenteuil; m. Jacqueline Breguet (deceased); one s. one d.; ed. Lycée Condorcet, Faculty of Law and Ecole des Sciences Politiques, Paris; entered diplomatic service 1928, occupied posts in Constantinople, Washington, Peking, Paris, Mexico and Chungking; Free French Forces in London 1942; Washington 1942-45; Dir. Asian Affairs, Ministry of Foreign Affairs 1945-47; Minister-Counsellor, London 1947-50; Amb. to Yugoslavia 1950-54, to Argentina 1955-57, to Turkey 1956-57; Diplomatic Counsellor to French Govt. 1957-62; Civil Asst. to Sec. of State for Defence 1959-62; Amb. to Switzerland 1962-64; to U.S.S.R. 1964-66; Ambassadeur de France (Hon.) 1965; Commdr. de la Légion d'honneur, Hon. K.C.V.O. (U.K.) Grand Officer Order of Orange Nassau (Neths.), etc. *Address:* 31 *bis* boulevard Suchet, 75016 Paris, France. *Telephone;* 288-65-62.

BAUDOUIN I; King of the Belgians; Baudouin Albert Charles Léopold Axel Marie Gustave; b. 7 Sept. 1930; s. of King Léopold III and Queen Astrid; m. Doña Fabiola Mora y Aragón (b. 11 June 1928) 1960; no c.; ed. privately. Prince Royal 1950; succeeded his father on his abdication 17 July 1951. *Address:* The Royal Palace, Brussels, Belgium.

BAUER, Ludwig; Austrian business executive; b. 23 Sept. 1908, Hadersdorf-Weidlingau; s. of Ludwig and Margarethe (née Marno) Bauer; m. Helene Arcon 1977; ed. Realschule and Handelsakademie; with Vacuum Oil Co. 1928-38, AG der Kohlenwertstoffverbände, Gruppe Benzin-Benzol 1938-; "Martha" Erdöl G.m.b.H. 1946, Man. 1955, Gen. Dir. 1960; Chair. Man. Board ÖMV Aktiengesellschaft 1966-; Hon. Senator Montanistischen Hochschule, Leoben; Grosses Ehrenzeichen für Verdienste um die Republik Österreich, Silbernes Komturkreuz des Ehrenzeichens für Verdienste um das Bundesland Niederösterreich, Ordine al Merito (Italy), Grosses Silbernes Ehrenzeichen des Landes Wien, Goldenes Ehrenzeichen des Landes Oberösterreich, Goldenes Ehrenzeichen des Landes Salzburg (Austria). *Leisure interests:* literature, music, art. *Address:* Otto-Wagner-Platz 5, 1091 Vienna, Austria. *Telephone:* 42-36-21.

BAUER, Peter Thomas, M.A., F.B.A.; British economist; b. 6 Nov. 1915, Budapest, Hungary; ed. Scholae Piae (Budapest) and Gonville and Caius Coll., Cambridge. Fellow Gonville ad Caius Coll. Cambridge 1946-60, 1968-; Reader, Agricultural Econ, Univ. of London 1947-48; Univ. Lecturer in Econ, Cambridge Univ. 1948-56, Smuts Reader in Commonwealth Studies 1956-60; Prof. of Econ. (with special reference to econ. dev. and underdeveloped countries), Univ. of London 1960-. *Publications:* The Rubber Industry 1948, West African Trade 1954, The Economics of Under-developed Countries (with B. S. Yamey) 1957, Economic Analysis and Policy in Underdeveloped Countries 1958, Indian Economic Policy and Development 1961, Markets, Market Control and Marketing Reform (Selected Papers, with B. S. Yamey) 1969, Dissent on Development: Studies and Debates in Development Economics 1972; numerous

articles on economic subjects. *Address* London School of Economics and Political Science, Houghton Street, London WC2A 2AE, England (Office).

BAUM, Warren C., PH.D.; American international finance official; b. 2 Sept. 1922, New York; s. of William and Elsie Baum; m. Jessie Scullen 1946; two d.; ed. Columbia Coll. and Harvard Univ.; with Office of Strategic Services 1942-46; Economic Co-operation Admin. 1949-51; Mutual Security Agency 1952-53; Economist, RAND Corpn. 1953-56; Chief, Office of Network Study, Fed. Communications Comm. 1956-59; Economist, European Dept. World Bank 1959-62; Div. Chief, European Dept. 1962-64; Asst. Dir. in charge of Transportation, Projects Dept. 1964-68; Deputy Dir., Projects Dept. July 1968; Assoc. Dir., Projects Nov. 1968-72; Vice-Pres. Projects Staff 1972-; Chair. Consultative Group on Int. Agricultural Research. *Publications:* The Marshall Plan and French Foreign Trade 1951, The French Economy and the State 1956. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C. 20433, U.S.A. (Office).

BAUM, H.E. Cardinal William Wakefield, S.T.D., S.T.L.; American ecclesiastic; b. 21 Nov. 1926, Dallas, Tex.; s. of Harold E. and Mary Leona (Hayes) White, step-father Jerome C. Baum; ed. Kenrick Seminary, St. Louis and Univ. of St. Thomas Aquinas, Rome; ordained to priesthood 1951; Assoc. Pastor, St. Aloysius, St. Therese's and St. Peter's parishes, Kan. City, Mo. 1951-56; Instructor and Prof., Avila Coll., Kan. City 1954-56; 1958-63; Admin. St. Cyril's Parish, Sugar Creek, Mo. 1960-61; Hon. Chaplain of His Holiness the Pope 1961; Peritus (Expert Adviser), Second Vatican Council 1962-65; First Exec. Dir. Bishops' Comm. for Ecumenical and Interreligious Affairs, Wash. 1964-67, Chair. 1972; mem. Joint Working Group of reps. of Catholic Church and World Council of Churches 1965-69; mem. Mixed Comm. of reps. of Catholic Church and Lutheran World Fed. 1965-66; Chancellor, Diocese of Kan. City, St. Joseph 1967-70; Hon. Prelate of His Holiness the Pope 1968; Pastor, St. James Parish, Kan. City 1968-70; Bishop, Diocese of Springfield-Cape Girardeau 1970; mem. Synod of Bishops 1971; Archbishop of Washington and Chancellor of the Catholic Univ. 1973-; Cardinal 1976-; Permanent Observer-Consultant for Vatican Secretariat for Promoting Christian Unity; Chair. USCC-NCCB Doctrine Cttee., Cttee. for Pastoral Research and Practices; mem. Congregation for Catholic Educ. and Secretariat for Non-Christians; Hon. D.D., Muhlenberg Coll., Allentown, Pa. 1967, Georgetown Univ., Wash., St. John's Univ., Brooklyn, N.Y. *Leisure interests:* reading, music. *Publications:* The Teaching of Cardinal Cajetan on the Sacrifice of the Mass 1958, Considerations Toward the Theology on the Presbyterate 1961. *Address:* 1721 Rhode Island Avenue, N.W., Washington, D.C. 20036, U.S.A. (Office). *Telephone:* 202-783-1465.

BAUMONT, Maurice Edmond Marie, D. ès L.; French historian; b. 26 Feb. 1892, Lunéville; widower; one d.; ed. Ecole Normale Supérieure, Univ. of Paris; with Reparations Comm. in Berlin 1920-27, with L.N. 1927-39; Hon. Prof. Inst. Universitaire des Hautes Etudes Internationales (Geneva); Historical Adviser, Ministry of Foreign Affairs; Ed. (France) Wilhelmstrasse documents (publ. in 10 vols. since 1950); Hon. Prof. Univ. of Paris; Curator Musée de Chantilly; mem. Acad. des Sciences Morales et Politiques. *Publications:* include L'Allemagne, lendemain de guerre et de revolution 1922, Quinze ans d'histoire universelle 1914-1929, l'Abdication de Guillaume II 1930, L'affaire Eulenburg 1933, L'essor industriel et l'impérialisme colonial (1878-1904) 1949, La faillite de la paix (1918-1939) 1951, Histoire de la France pour tous les français: Vol. II, 1878 à nos jours 1950, Gloires et tragédies de la IIIe république 1956, Aux sources de l'Affaire Dreyfus 1959, La grande conjuration contre Hitler 1963, L'Europe de 1900 à 1914 1967, La troisième république 1968, Les origines de la deuxième guerre mondiale 1969, L'echiquier de Metz 1971, Bazaine et ses secrets 1975, La guerre de 1870 et le Duc d'Aumale, Au coeur de l'affaire Dreyfus 1976. *Address:* 10 avenue Emile Acollas, 75007 Paris, France. *Telephone:* 783-90-26.

BAUNSGAARD, Hilmar Tormod Ingolf, Danish businessman and politician; b. 26 Feb. 1920, Slagelse; m. Egone Baunsgaard; one d.; ed. commercial schools. Deputy Man. grocery firm 1944-47; Business Man. Købmaendenes Indkøbscentral A/S HOKI, Odense 1947-61; Marketing Man. at WA Reklame-Marketing S/I 1964-68; Pres. Social-Liberal Party Youth 1948-50; mem. Exec. Social-Liberal Party 1948-57 (Vice-Pres. 1954-57); mem. of Folketing (Parl.) 1957-; Minister of Commerce 1961-64; Prime Minister 1968-71; mem. Board Nat. Bank of Denmark 1960-61, 1966-68, 1971-75; mem. Board Politiken (newspaper) 1975, Chair. Board 1976. *Leisure interests:* gardening, painting. *Address:* Blidahpark 34, 2900 Hellerup, Denmark.

BAVIN, Rt. Rev. Timothy John, M.A.; South African bishop; b. 17 Sept. 1935, Northwood, England; ed. St. George School, Windsor, Brighton Coll., Worcester Coll., Oxford Univ., Cuddesdon Coll. Asst. Priest, St. Alban's Cathedral, Pretoria 1961-64; Chaplain, St. Alban's Coll., Pretoria 1964-69; Asst. Priest, Uckfield, Sussex, England 1969-71; Vicar, Church of the Good Shepherd, Brighton 1971-73; Dean of Johannesburg 1973-74, Bishop Nov. 1974-. *Address:* Bishop's House, 4 Crescent Drive, Westcliff, Johannesburg 2193; P.O. Box 1131, Johannesburg 2000, South Africa.

BAWDEN, Edward, C.B.E., R.A., R.D.I.; British artist; b. 1903; ed. Cambridge School of Art and Royal Coll. of Art. Tutor, Royal Coll. of Art 1932; Official War Artist, Middle East 1940-45; work represented in Tate Gallery, London, and in other London, provincial and Commonwealth galleries; Trustee, Tate Gallery 1951-58. *Address:* 2 Park Lane, Saffron Waldon, Essex, England.

BAXENDELL, Peter Brian, C.B.E., B.SC., A.R.S.M.; British petroleum engineer; b. 28 Feb. 1925, Runcorn; s. of Lesley Wilfred Baxendell and Evelyn Gaskin; m. Rosemary Lacey 1949; two s. two d.; ed. St. Francis Xavier's Coll., Liverpool, Royal School of Mines, Imperial Coll., London; with Royal Dutch/Shell Group 1946-; Anglo-Egyptian Oilfields 1947-50; Compañía Shell de Venezuela 1950-63; Technical Dir. Shell-BP Nigeria 1963-66, Man. Dir. 1969-72; Shell Int. London, Eastern Region 1966-69; Chair. Shell U.K. 1973; Man. Dir. Royal Dutch/Shell Group 1973-. *Leisure interests:* squash, tennis. *Address:* Royal Dutch/Shell Group, Shell Centre, London, S.E.1, England (Office).

BAXTER, Sir John Philip, K.B.E., C.M.G., B.SC., PH.D., M.I.CHEM.E., F.R.A.C.I., M.I.E. (Aust.), F.A.A.; Australian chemical engineer and educationist; b. 7 May 1905; ed. Hereford, and Birmingham Univ. Research Dir.-Gen. Chemicals Division I.C.I. and Dir. Thorium Ltd. -49; Prof. of Chemical Engineering N.S.W. Univ. of Technology 1949-53, Dir. 1953-54, Vice-Chancellor (now Univ. of New South Wales) 1955-69; Chair. Atomic Energy Comm. 1957-72; Chair. Sydney Opera House Trust 1969-75. *Leisure interest:* lawn tennis. *Address:* 1 Kelso Street, Enfield, N.S.W. 2136, Australia. *Telephone:* 7474261.

BAYAR, Celâl; Turkish politician; b. 1883. Minister of Nat. Economy 1921; Minister of Reconstruction and Settlement (when Turkish and Greek populations were exchanged in accordance with Treaty of Lausanne) 1923; founded Ish Bank 1924; Minister of Nat. Econ. 1932; Prime Minister 1937-39; Vice-Pres. Republican People's Party during Presidency of Kemal Atatürk; undertook leadership of new Democratic Party founded 1946; Pres. of the Republic May 1950-60; detained on Yassiada Island 1960-61; sentenced to life imprisonment Sept. 1961, released on grounds of health 1963; imprisoned again 1963-64; released again on health grounds Nov. 1964; granted full pardon July 1966. *Address:* Ankara, Turkey.

BAYER, Otto, DR. PHIL. NAT.; German chemical executive; b. 4 Nov. 1902, Frankfurt/Main; m. Eleonore Stellisch 1928; ed. Klinger-Oberrealschule, Frankfurt, and Univ. Frankfurt. Private Asst. to Julius von Braun 1924-27; entered Research Labs. of I.G. Farbenindustrie AG, Mainkur Works 1927, Dir. I.G. Farbenindustrie 1939; Prof. ord. hon. Univ. of Cologne 1944; mem. Management Board and Head of Research, Farbenfabriken Bayer AG 1951-63; Chair. Supervisory Board of Bayer AG 1964-74, Hon. Chair. 1974-; mem. German Research Council 1950-56; official of numerous other firms and business orgs.; author of many publs. and holder of 400 German patents; inventor of Diisocyanat-Polyadditions Process 1937; corresp. mem. Acad. for Science and Literature, Mainz and Düsseldorf; A. v. Baeyer Medal, Gauss-Weber Medal, Duisberg Medal, Charles Goodyear Medal, and other medals; six hon. doctorates. *Address:* 5093 Burscheid, Haus am Eifgen, Federal Republic of Germany. *Telephone:* 02174-8555.

BAYERO, Alhaji Ado; Nigerian administrator; b. 1930, Kano; s. of Alhaji Abdullahi Bayer, Emir of Kano; ed. Kano Middle School. Clerk, Bank of W. Africa; M.P., N. House of Assembly 1955-57; Chief of Kano Native Authority Police 1957-62; Amb. to Senegal 1962-63; Emir of Kano 1963-; Chancellor, Univ. of Nigeria, Nsukka, E. Nigeria 1966-75, Chancellor Univ. of Ibadan. *Leisure interests:* photography, riding, reading. *Address:* University of Ibadan, Ibadan, Nigeria (Office).

BAYH, Birch Evans, Jr.; American lawyer, farmer and politician; b. 22 Jan. 1928, Terre Haute, Ind.; s. of Birch and Leah (Hollingsworth) Evans; m. Marvella Hern 1952; one s.; ed. Purdue Univ. and Indiana Univ. Farmer, Terre Haute 1952-57; admitted to Ind. Bar 1961; mem. Indiana House of Reps. 1955-62, Minority Leader 1957-58, 1961-62, Speaker 1959-60; U.S. Senator from Indiana 1963-; Democrat. *Address:* Senate Office Building, Washington, D.C. 20510, U.S.A.

BAYLE, Henry Robert Auguste, B.A.; French diplomatist; b. 30 Nov. 1915, Sainte Adresse; s. of Auguste Bayle and Margueritte (née Bricka); m. 1st Nicoletta La Torre, two s. two d.; m. 2nd Jutta Hansen 1962; ed. Ecole Normale Supérieure; served in World War II 1939-41; joined Ministry of Foreign Affairs 1944; Press and Information Service 1944-46; Rome 1946, The Hague 1947, High Commr., Bonn 2, Fed. Repub. of Germany 1949-55; Asst. Dir. Far. East Dept. of Ministry of Foreign Affairs 1955-58; Rio de Janeiro 1958-60; Ministry 1960-62; Amb. to Trinidad and Tobago 1962-66, to Cuba 1966-72, to Pakistan 1972-76, to German Democratic Repub. 1976-. *Leisure interests:* golf, history, travel. *Address:* French Embassy, Tschaikowskistrasse 45, Berlin-Pankow, German Democratic Republic (Office); 46 rue Pergolèse, 75116 Paris, France (Residence). *Telephone:* 500-0866 (Home).

BAYLISS, Sir Richard Ian Samuel, K.C.V.O., M.D., F.R.C.P.; British physician; b. 2 Jan. 1917, Tettenhall; s. of the late Frederick William and Muryel Anne Bayliss; m. 1st Margaret Joan Hardman Lawson (dissolved 1956); m. 2nd Constance Ellen Frey 1957; one s. three d.; ed. Rugby School, Clare Coll. Cambridge, St. Thomas's Hosp. London, Columbia Univ. New York. Casualty Officer, House Physician, Registrar, Resident Asst. Physician, St. Thomas's Hosp. 1941-44; Officer in Charge, Medical Div., Royal Army Medical Corps India 1944-48; Lecturer in Medicine, Hammersmith Hosp. and Physician, Royal Postgraduate Medical School 1948-54; Rockefeller Fellow, Columbia Univ. 1950-51; Physician, Westminster Hosp. 1954-; Dean, Westminster Medical School 1960-64; Physician, King Edward VII Hosp. for Officers 1964-; Physician to H. M. Household 1964-70, to H.M. The Queen 1970-, Head of H.M. Medical Household 1973-; Medical Dir. Swiss Reassurance Co. 1970-. *Publications:* various publications in textbooks and medical journals on endocrine, metabolic and cardiovascular diseases. *Leisure interests:* skiing, music. *Address:* 9 Park Square West, London, NW1 4LJ, England. *Telephone:* 01-935 2671.

BAYRAMOĞLU, Fuat; Turkish diplomatist; b. 1912, Ankara; s. of Mehmet Tayyip and Hüsniye Bayramoğlu; m. Nesteren Bayramoğlu; ed. School of Political and Administrative Sciences, Istanbul, and Univ. of Liège; entered Diplomatic Service 1939; mem. Gen. Directorate of Press and Publication Cttee. 1943; Head of Secretariat Prime Minister's Office 1944-46; Chair. Press Dept. Cttee. 1946; Dir. in Foreign Ministry 1948; Consul, Cyprus 1949; Consul Gen., Jerusalem 1951-53; Dir.-Gen. Consular and Claims Dept., Ministry of Foreign Affairs, Ankara 1953-57; Amb. to Norway 1957-59, to Iraq 1959-60, to Iran 1960-62, to Italy 1962-63; Sec.-Gen. Ministry of Foreign Affairs 1963-65; Amb. to Belgium 1965-67, to Italy 1967-69, to U.S.S.R. 1969-71; Chair. Inspection Corps 1971-; Sec.-Gen. of the Presidency 1972-77; Homayoun Order of Iran 1962, Grand Croix de Mérite Civil Espagnol 1963, Grande Croce all'Ordine del Merito della Repubblica Italiana 1969, Presidential Distinguished Service Award 1973, Foreign Ministry Distinguished Service Award 1973. *Publications:* Turkish version of The Rubaiyat of H. G. Nakhai 1967, 1974, Rubailer (Book of quatrains with trans. into Persian) 1974, 1976, Türk Cam Sanati ve Beykoz Işleri 1974, English edn. Turkish Glass Art and Beykoz Ware 1976, and several legal and sociological articles. *Leisure interests:* philately, clock and watch collection. *Address:* Kandilli, Vaniköy Caddesi No. 60, Istanbul, Turkey. *Telephone:* 320663.

BAYÜLKEN, Ümit Halük; Turkish diplomatist; b. 7 July 1921, Istanbul; s. of Staff Officer H. Hüsnü Bayülken and Mrs. Melek Bayülken; m. Mrs. Valihe Salci 1952; one s. one d.; ed. Lycée of Haydarpasa, Istanbul, and Univ. of Ankara (Political Sciences). Ministry of Foreign Affairs 1944-; Reserve Officer in Army 1945-47; Vice-Consul, Frankfurt (Main) 1947-49; First Sec., Bonn 1950-51; Ministry of Foreign Affairs 1951-53; First Sec. Turkish Perm. Mission to UN 1953-57, Counsellor 1957-59; Turkish Rep. to London Joint Cttee. on Cyprus 1959-60; Dir.-Gen., Policy Planning Group, Ankara 1960-63, Deputy Sec.-Gen. for Political Affairs 1963-64, Sec.-Gen. 1964-66; Amb. to U.K. 1966-69, concurrently accred. to Malta May 1968-July 1969; Perm. Rep. of Turkey to UN 1969-71; Minister of Foreign Affairs 1971-74; Sec.-Gen. CENTO 1975-77; Sec.-Gen. of the Presidency 1977-; Hon. G.C.V.O. (U.K.), Order of Isabel la Católica (Spain), Grosses Bundesverdienstkreuz (Fed. Repub. of Germany). *Publications:* lectures, articles, studies and essays on minorities, Cyprus, principles of foreign policy, int. relations and disputes. *Leisure interests:* music, painting, reading. *Address:* Cumhurbaskanligi Genel Sekreteri Cankaya, Ankara, Turkey. *Telephone:* 27 1328.

BAZAINE, Jean, L. ès L.; French painter; b. 21 Dec.1904; executed stained glass windows for church at Assy 1946, at Saint Séverin, Paris 1966, ceramic mural and windows at Audincourt 1951-54, ceramic mural at UNESCO 1960, and Maison de la Radio, Paris 1963; exhibited Galerie Carré, Galerie Maeght, Paris; Retrospective Exhbns., Berne 1958, Eindhoven 1959, Hanover 1963, Zürich 1963, Oslo 1963, Paris 1965; Rep. at Biennali of Venice, São Paulo and Carnegie; Grand Prix Nat. des Arts 1964; paintings in most of the leading museums in U.S.A. and Europe. *Publications:* Notes sur la peinture d'aujourd'hui 1948, Exercise de la peinture 1973. *Address:* 36 rue Pierre Brossolette, 92140 Clamart, France.

BAZARGAN, Mehdi; Iranian politician, businessman and university professor; b. 1905; ed. Univ. of the Sorbonne. Asst. Prof., Teheran Univ., then Prof., then Dean; Fmr. Man. Dir. Nat. Oil Co. of Iran during Prime Minister Mossadeq's rule; arrested 1962 for anti-government activities; Man. Dir. Yad Construction Co.; Leader, Freedom of Iran Movement (affiliated with Nat. Front); Leader Opposition Nat. Front Party; appointed Prime Minister by Ayatollah Khomeini (q.v.), assumed office after overthrow of Dr. Bakhtiar's Government Feb. 1979-. *Publications:* bookets on Islam and modern civilization. *Address:* c/o Office of the Prime Minister, Teheran, Iran.

BAZELON, David Lionel; American judge; b. 3 Sept. 1909, Superior, Wis.; m. Miriam Kellner 1936; two s.; ed. Univ. of Illinois and Northwestern Univ. Private practice, Illinois 1932-35; Asst. U.S. Attorney, Northern District of Illinois 1935-40; senior mem. Gottlieb and Schwartz 1940-46; Asst. Attorney-Gen. U.S. Lands Div. 1946-47, Office of Alien Property 1947-49; Judge, U.S. Court of Appeals, District of Columbia circuit 1949-, Chief Judge 1962-; Lecturer, Law and Psychiatry, Univ. of Pennsylvania Law School 1957-58, 1958-59; Sloan Visiting Prof. Menninger Clinic, Topeka, Kansas 1960-61, Regent's Lecturer, Univ. of Calif. at Los Angeles 1964; Lecturer in Psychiatry, The Johns Hopkins Univ. School of Medicine 1964-; Clinical Prof. of Psychiatry (Socio-legal aspects), George Washington Univ. 1966-; Chair. Task Force on Law, President's Panel on Mental Retardation 1961-62; mem. Board of Dirs. American Orthopsychiatric Assn. 1965-, Pres. 1969-70; mem. Board of Dirs. Joint Comm. on Mental Health of Children Inc. 1965-70; mem. Harvard Univ. Program on Technology and Soc. Advisory Cttee. 1966-71, Nat. Advisory Mental Health Council, Public Health Service 1967-71; mem. Board of Trustees, Salk Inst. for Biological Studies 1961-; mem. U.S. Mission on Mental Health to U.S.S.R. 1967; mem. Cttee. on Ethics, American Heart Assn. 1968-, John F. Kennedy Center for Research on Educ. and Human Development Nat. Advisory Cttee. 1968-, Battelle-Northwest Behavioral and Social Science Consulting Panel 1970-72; Chair. Advisory Board, Boston Univ. Center for Law and Life Sciences 1970; Fellow, American Acad. of Arts and Sciences, Boston, Mass. 1970-; Isaac Ray Award, American Psychiatric Assn. 1960-61, Hon. Fellow 1962, Distinguished Service Award 1975; Hon. Fellow, American Coll. of Legal Medicine 1975; Hon. LL.D. (Colby Coll.) 1966, Boston Univ. Law School 1969, Univ. of S. Calif. 1977. *Address:* Court of Appeals, Washington, D.C. 20037; 2700 Virginia Avenue, N.W., Apartment 1207, Washington, D.C. 20037, U.S.A. (Home). *Telephone:* 426-7118.

BAZHAN, Mikola (Nikolay Platonovich); Soviet poet; b. 9 Oct. 1904, Kamenets-Podolsk, Ukraine; ed. Inst. of Foreign Relations, Kiev. Ed.-in-Chief, Ukrainian Soviet Encyclopedia 1959; mem. CPSU 1940-; mem. Acad. of Sciences of Ukrainian S.S.R. 1951-; mem. Board and Sec. of U.S.S.R. Union of Writers; fmr. Vice-Pres. European Community of Writers; State prizewinner, Hero of Socialist Labour, Order of Lenin (four times), Order of Red Banner, Order of Red Banner of Labour, Merited Worker of Arts and of Science of Georgian S.S.R.; translator of Russian and Georgian poets into Ukrainian. *Publications:* 17th Patrol 1926, Immortality 1937, Fathers and Sons 1938, Mother 1939, Tambi 1940, Daniil Galitsky 1942, The Stalingrad Notebook 1943. Impressions of England 1948, Mickiewicz in Odessa 1956, By the Saviour's Tower 1952, Italian Meetings 1961, A Flight through the Storm 1963, Immortality of the Stone 1967, The Recollections of Uman 1972, Night Meditations of an Old Workman 1977; Compiler Michelangelo 1975. *Address:* Ukrainian Branch, U.S.S.R. Union of Writers, Kiev, U.S.S.R.

BAZIN, Germain (René Michel), D. ès L., L. en D.; French museum curator and university professor; b. Paris; s. of Ch. Bazin and J. Laurence Mounier-Pouthôt; m. Countess Heller Bielotzerkowka; ed. Coll. Ste. Croix, Neuilly, Ste Croix, Orléans, Coll. de Pont Levoy and Univ. de Paris. Prof., Brussels Free Univ. 1934; began Museum career in Dept. of Drawings, Ecole des Beaux Arts; Keeper of Paintings, Louvre 1937, Dir. of Paintings and Drawings 1951-65 (Museum of Louvre), Dir. of Restoration, Paintings of French Museums 1965; Prof. of Museum Studies at Ecole Louvre 1941-70; now Hon. Curator-in-Chief Museum of Louvre and Research Prof. York Univ., Toronto; Infantry Capt. 1939-45; active work in protection of French art treasures 1940-45; organized over 40 exhbns. in France and abroad; has frequently lectured in Europe,

U.S.A., S. America; has made film on Impressionism, Art Adviser for film The Louvre (N.B.C., New York); Del. to numerous UNESCO Cttees; mem. Inst. de France (Acad. des Beaux-Arts); mem. Central Inst. of Conservation, Rome; mem. numerous acads.; Officier Légion d'honneur, Commdr. Arts et Lettres, Grand Officier de l'Ordre de Léopold (Belgium), Commdr. de la Couronne (Belgium), Commdr. Ordre République Italienne and Orders from Italy, Portugal, Sweden and Brazil; Dr. h.c. Univ. do Brazil and D.H., Villanova Univ., Pennsylvania; books translated into twenty languages. *Publications:* Le Mont St. Michel 1932, Le Louvre 1933, Les trésors de la peinture française 1941, Fra Angelico 1943, Corot 1943, l'époque impréssionniste 1944, Le crépuscule des images 1946, Les grands maîtres hollandais 1949, Histoire générale de l'art (de la préhistoire à nos jours) 1953, L'art religieux baroque au Brésil 1956, Les trésors de la peinture au Louvre 1958, Les maîtres des écoles étrangères au Musée de l'Ermitage 1960, Gallery of Flowers 1960, Les trésors du Musée du Jeu de Paume 1961, L'Aleijadinho 1963, Le message de l'absolu 1964, Baroque et rococo 1965, Le temps des musées 1967, Avante-garde de la peinture, Sculpture mondiale, Destins du baroque 1970, Manet 1972, Le langage des styles 1976. *Address:* L'Institut de France, 23 quai de Conti, 75006 Paris, France.

BAZIN, Hervé (see Hervé-Bazin, Jean-Pierre Marie).

BEACH, Frank Ambrose; American professor of psychology; b. 13 April 1911, Emporia, Kan.; s. of Frank A. and Bertha Robinson Beach; m. 1st Anna Beth Odenweller 1935 (died 1971); one s. one d.; m. 2nd Noel Gaustad 1972; ed. Kansas State Teachers' Coll. and Univ. of Chicago. Fellow in Clinical Psychology, Kansas State Teachers' Coll. 1932-33; High School Instructor. Yates Center, Kan. 1934-35; Research Asst. in Neurophysiology, Harvard Univ. 1935-36; Asst. Curator, Dept. Experimental Biology, American Museum of Natural History 1936-42, Curator and Chair. Dept. of Animal Behavior 1942-46; Prof. of Psychology, Yale Univ. 1946-52, Sterling Prof. 1952-58; Prof. of Psychology, Univ. of Calif., Berkeley 1958-; Hon. D.Sc. McGill Univ. and Williams Coll.; many awards and prizes; mem. numerous scientific asscns. *Publications:* Hormones and Behavior 1948, Patterns of Sexual Behavior (co-author with C. S. Ford) 1952, Sex and Behavior (Editor) 1965; over 120 articles in scientific journals, many reviews and non-technical publs. *Address:* Department of Psychology, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 415-642-2620.

BEACH, Morrison H.; American insurance executive; b. 10 Jan. 1917, Winsted, Conn.; s. of Howard Edmund and Edith (Morrison) Beach; m. Evelyn R. Harris 1942; one s. two d.; ed. Williams Coll., Massachusetts Inst. of Technology, Connecticut Univ. Law School. Asst. Actuary Travelers Insurance Co. 1950, Assoc. Actuary 1954, Actuary 1957, Second Vice-Pres. and Actuary 1959, Second Vice-Pres. Exec. Dept. 1962, Vice-Pres. 1964, Senior Vice-Pres. 1965, Exec. Vice-Pres. 1970, Pres. 1971-, Chair and Chief Exec. Officer 1973-; Dir. Travelers Corpn. and its principal U.S. subsidiaries, American Council of Life Insurance; mem. Conn. Bar Assn.; Chair. of numerous business and philanthropic concerns; Fellow, Soc. of Actuaries; mem. American Acad. of Actuaries. *Address:* c/o The Travelers Insurance Companies, One Tower Square, Hartford, Conn. 06115, U.S.A. (Office).

BEADENGAR, Dessande; Chad diplomatist; b. 28 March 1936, Fort Sibut, Oubangui-Chari, French Equatorial Africa (F.E.A.); m.; ten c.; ed. in F.E.A. and Teachers' Coll. of Ecole Normale d'Auteuil, Paris. Dir. of Schools, Fort Crampel, Oubangui-Chari (later Central African Repub.) 1956-61; studied in Paris 1961-63; teacher of English, Fort Sibut 1964-65; Bambari 1965-66 (both in Cen. African Repub.); joined public service of Chad 1966; teacher of English, Ahmed Mangue School, Sarh; Dir. Koumra secondary school, Moyen-Chari 1967; joined Chad Ministry of Information and Tourism 1968; Minister of Tourism and Handicrafts 1971-73, for Water, Forests, Fisheries, Hunting, National Parks and Animal Reserves 1973-75; Perm. Rep. to UN Aug. 1975-; Administrator for Chad on Governing Council, Soc. for the Devt. of Tourism in W. Africa (Hotafric) 1971-73. *Address:* Permanent Mission of Chad to the United Nations, 221 East 43rd Street, Suite 1703, New York, N.Y. 10017, U.S.A. (Office).

BEADLE, George Wells, M.SC., PH.D.; American biologist; b. 22 Oct. 1903, Nebraska; s. of Chauncey and Hattie Beadle; m. 1st Marion D. Hill 1928 (divorced 1953), 2nd Muriel M. Barnett 1953; two s.; ed. Univ. of Nebraska and Cornell Univ. Nat. Research Fellow, Calif. Inst. of Technology 1931-33, Research Fellow and Instructor 1933–36; Asst. Prof. of Genetics, Harvard Univ. 1936-37; Prof. of Biology, Stanford Univ. 1937-46; Prof. of Biology and Chair. Division of Biology, Calif. Inst. of Technology 1946-61; Pres. American Assn. for the Advancement of Science 1956-57; Eastman Visiting Prof., Oxford 1958-59; Pres. Chicago Univ. 1961-69; Dir. American Medical Assn. and Inst. for Biomedical Research 1968-70; Prof. of Biology, Univ. of Chicago 1961-68, Prof. Emer. William E. Wrather Distinguished Service Prof., Hon. Trustee 1969-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Royal Soc., Danish Royal Soc., Nat. Science Acad. India, Ist. Lombardo di Lettere, Milan, Japan Acad. Indian Nat. Science Acad; Lasker Award 50, Dyer Award 1951, Emil C. Hansen Prize 1953, Nobel Prize for Medicine (with Lederberg and Tatum) 1958; Albert Einstein Award 1958; Nat. Award, American Cancer Soc. 1959, Kimber Genetics Award, Nat. Acad. of Sciences 1960; D.Sc. (Hon.) Yale, Nebraska, North-western, Rutgers, Kenyon, Wesleyan, Oxford, Birmingham, and others. *Publications:* An Introduction to Genetics (jointly) 1939, Genetics and Modern Biology 1963. The Language of Life (with Muriel Beadle) 1966. *Leisure interests:* photography, mountaineering. *Address:* Department of Biology, University of Chicago, Chicago, Ill. 60637 (Office); 1700 E 56th Street, Chicago, Ill. 60637, U.S.A.(Home). *Telephone:* (312) 493-2119.

BEADLE, Rt. Hon. Sir (Thomas) Hugh (William), P.C., Kt., C.M.G., O.B.E.; Rhodesian politician and judge; b. 6 Feb. 1905; ed. Univ. of Cape Town and Queen's Coll., Oxford. Advocate, Bulawayo 1930-39; Royal West African Frontier Force, Gold Coast 1939-40; Deputy Judge Advocate-Gen. S. Rhodesian Forces, and Parl. Sec. to Prime Minister 1940-46; M.P. 1939-50; Minister of Justice, Internal Affairs, Health, Education, S. Rhodesia 1946-50; Judge of High Court, S. Rhodesia 1950-61, Chief Justice 1961-77; Hon. Fellow Queen's Coll., Oxford 1966. *Address:* c/o Chief Justice's Chambers, High Court, Bulawayo, Zimbabwe Rhodesia.

BEALE, Hon. Sir Howard, K.B.E., Q.C.; Australian lawyer, diplomatist and company director; b. 1898, Tamworth; s. of Rev. Joseph and Clara Elizabeth (Vickery) Beale; m. Margery E. Wood 1927; one s.; ed. Univ. of Sydney; called to the Bar 1925; apptd. King's Counsel 1950; Lecturer, Army Educational Dept. 1940; R.A.N. 1942-45; Liberal mem. for Parramatta, House of Reps. 1946-58; mem. Commonwealth Parl. Public Works Cttee. 1947-49; Minister for Information and Transport 1949-50, for Supply 1950-58, and for Defence Production 1956-58 and Minister-in-charge of Atomic Energy Comm. and Aluminium Production Comm. 1950-58; Acting Minister for Immigration 1951-52, 1953, 1954; Minister for Nat. Devt. 1952-53, for Air 1952, for Defence 1957; mem. Australian Defence Council, Cabinet Defence Preparations Cttee., Cabinet Cttee. on Uranium and Atomic Energy 1950-58; Amb. to U.S.A. 1958-64; Alternate Gov. Int. Monetary Fund 1960, 1962 and 1964; Pres. Arts Council of Australia 1964-68; Woodward Lecturer, Yale Univ. 1960; Regents' Visiting Prof., Univ. of Calif. 1966, Marquette Univ. Wis. 1967-69; now Dir. and Adviser to various Australian, British and U.S. industrial and financial corpns.; Hon. LL.D., Kent Univ., Ohio, Marquette Univ., Wis. 1969, Hon. D.H. Lit., Nebraska 1962. *Publications:* This Inch of Time (memoirs). *Leisure interests:* yachting, reading, music. *Address:* 1/4 Marathon Road, Darling Point, 2027, Australia. *Telephone:* 32 1621.

BEALL, J. Glenn, Jr.; American politician; b. 19 June 1927, Cumberland, Md.; s. of late Senator J. Glenn Beall, Sr.; m. Nancy Lee Smith; one d.; ed. public schools in Frostburg, Md., Phillips Exeter Acad. and Yale Univ. Associated with Beall, Garner and Geare Inc. (insurance co.) since graduation; mem. Maryland House of Delegates 1962-68; mem. U.S. House of Reps. 1968-70; Senator from Maryland 1971-77; Republican. *Address:* 362 Russell Building, Washington, D.C. 20510, U.S.A. (Office).

BEALS, Carleton, M.A.; American writer; b. 13 Nov. 1893, Medicine Lodge, Kan.; s. of Leon Eli Beals and Elvina Sybila Blickensderfer Beals; m. 1st Lillian Rine 1919, 2nd Elizabeth Daniel 1930, 3rd Blanca Rose Arquedes 1934, 4th Carolyn Kennedy 1956; ed. Calif., Columbia, Madrid, Rome and Mexico Univs. Principal American High School Mexico City 1919-20; Ed. Latin-American Press Syndicate 1934-36; Pres. Editorial Board Latin-American Digest 1933-34; special corresp. Europe, Mexico, Central America, Spain, N. Africa, Italy, Turkey, U.S.S.R. and Germany 1920-23, 1929, 1934, 1937, 1946, 1957, 1961; mem. expeditions to Indian Regions, Mexico 1930-31, Peru, Bolivia, Ecuador, Amazon, Patagonia 1946, 1961; Bryce Historical Prize 1916, Bonnheim Essay Prize 1915, 1916, Guggenheim Foundation Award 1931, Barnes Foundation Award 1953-54, Best Essay Prize, Arizona Quarterly 1961, Nat. Acad. of Recording Arts Award 1965. *Publications:* Rome or Death—the Story of Fascism 1923, Mexico—an Interpretation 1923, Brimstone and Chili 1927, Con Sandino en Nicaragua 1928, Destroying Victor 1929, Mexican Maze 1931, Banana Gold 1932, Porfirio Diaz, Dictator of Mexico 1933, The Crime of Cuba, Fire on the Andes 1934, Black River 1935, The Story of Huey

P. Long 1935, The Stones Awake 1936, America South 1937, The Coming Struggle for Latin America, Glass Houses 1938, American Earth 1939, The Great Circle 1941, Pan America, A Program for the Western Hemisphere 1941, Dawn Over the Amazon 1943, Rio Grande to Cape Horn 1943, Lands of the Dawning Morrow 1948, The Long Land: Chile 1948, Our Yankee Heritage: The Making of New Haven 1951, Stephen Austin: Father of Texas 1953, Our Yankee Heritage: The Making of Bristol 1954, Our Yankee Heritage: New England's Contributions to American Civilisation 1955, Adventure of the Western Sea: The Story of Robert Gray 1956, Taste of Glory 1956, John Elliot: The Man Who Loved the Indians 1958, House in Mexico 1958, Brass-Knuckle Crusade, The Great Know-nothing Conspiracy 1960, Nomads and Empire Builders 1961, Cyclone Carry: The Story of Carry Nation 1962, Latin America: World in Revolution 1963, Eagles of the Andes 1963, Under the Fifth Sun, Mexico Old and New 1964, Arévalo, Anti-Communism in Latin America 1964, War within ■ War 1965, Land of the Mayas, Past and Present 1967, The Great Revolt and its Leaders 1968, Stories Told by the Aztecs Before the Spaniards Came 1969, Colonial Rhode Island 1970, Great Guerilla Warriors 1970, The Nature of Revolution 1970, The Incredible Incas: Past and Present 1973; jointly: The Mexican Genius 1931, Recovery through Revolution, Contemporary Opinion 1933, Rifle Rule in Cuba (with Clifford Odets) 1935, Mississippi River Folklore, The Writer in ■ Changing World 1937, We Testify 1941, New Invitation to Learning 1944. What South Americans Think of Us 1945, The Price of Liberty 1947, Exploring Life through Literature 1951, 1957, Politics, Bits of Silver 1961, The Age of Porfirio Diaz 1977. *Leisure interests:* chess, horse-back riding, swimming. *Address:* MR Box 25, Killingworth, Conn. 06417, U.S.A. *Telephone:* (203) 663-1696.

BEAME, Abraham David, C.P.A.; American local government official; b. 20 March 1906, London, England; s. of Philip and Esther (Goldfarb) Beame; m. Mary Ingerman 1928; two s.; ed. City Coll., New York. Asst. Budget Dir., New York City 1946-52, Budget Dir. 1952-61, Comptroller 1962-65, 1969-73, Mayor 1974-77; numerous awards from charitable, religious and civic orgs. *Publications:* various articles, mostly concerning govt. and financial topics. *Address:* 250 Broadway, New York, N.Y. 10007, U.S.A.

BEAMENT, Brigadier-Gen. George Edwin, O.B.E., K.ST.J., E.D., C.D., Q.C., B.A.SC. (retd.); Canadian officer and lawyer; b. 12 April 1908, Ottawa, Ont; s. of Thomas Arthur Beament, Q.C. and Edith Louise Beament (née Belford); m. Brenda Yvonne Mary Thomas 1941; one s. one d.; ed. Royal Military Coll., Kingston, Toronto Univ., Osgoode Hall Law School, Staff Coll., Camberley; called to Ontario Bar 1934; Partner Beament and Beament, Ottawa 1937; mobilized 2nd Field Battery R.C.A., Major 1939; proceeded to England in command 2/14 Field Battery R.C.A. 1940; Brigade Major 1st Canadian Armoured Brigade 1941; C.O. 6 Canadian Field Regiment R.C.A., Lieut.-Col. 1942; Col., Gen. Staff First Canadian Army 1943; Brig.-Gen. Staff First Canadian Army 1945; mentioned in despatches; Pres. Khaki Univ. of Canada in the U.K. 1945-46; now Counsel Beament, Fyfe, York, Boucher, Haydon, Barristers and Solicitors; Pres. Royal Mil. Coll. Club of Canada 1953-54; Pres. Ottawa Community Chests 1953-55; Pres. United Services Inst. 1955-56; Pres. Ottawa Y.M.C.A. 1958-60; Gov. Carleton Univ. 1956-73; mem. Nat. Capital Comm. 1960-66; Bencher Law Soc. Upper Canada 1964-75, Hon. Col. 30th Field Regiment R.C.A. 1968-78; Hon. Pres. Ottawa YM-YWCA 1969-72; Gov. Corps of Commissionaires (Ottawa); Dir. Community Foundation of Ottawa and District; awarded Croix de guerre avec Palme, Order of the White Lion (3rd Class), Czechoslovak Military Cross, Chancellor, Ven. Order of St. John (Canada) 1975-78, Knight of Grace, Ven. Order of St. John 1964, Knight of Justice, Ven. Order of St. John 1975. *Leisure interests:* travel, historical research, reading. *Address:* 10th Floor, 100 Sparks Street, Ottawa, Ontario K1P 5B7 (Office); Snowberry, Notch Road, Old Chelsea, P.Q. J0X 2NO, Canada (Home). *Telephone:* 235-6736 (Office): 827-2150 (Home).

BEAN, William Bennett, M.D.; American physician; b. 8 Nov. 1909, Manila, Philippines; s. of Robert Bennett and Adelaide Leiper (Martin) Bean; two s. one d.; ed. Univ. of Virginia. Intern, Johns Hopkins Univ. Hosp. 1935-36; Asst. Resident Physician, Boston City Hosp. 1936-37; Senior Medical Resident, Cincinnati Gen. Hosp. 1937-38, Asst. Attending Physician 1941-46, Clinician, Out-Patient Dept. 1946-48, Attending Physician 1946-48; Dir. Heat Research, Clinical testing of rations, Armored Medical Research Laboratory 1942-45, Commdg. Officer; Asst. Prof. Univ. of Cincinnati Medical Coll. 1940-47, Assoc. Prof. 1947-48; Prof. Head Dept. of Internal Medicine, Univ. of Iowa Medical Coll. 1948-70, Physician-in-Chief Univ. Hosps. 1948-70; Sir William Osler Prof. 1970-; Kempner Prof. and Dir. Inst. for Medical Humanities, Univ. of Tex. Medical Branch 74-, Acting Chair. Dept. of Dermatology 1977-78; Fellow, American Acad. of Arts and Sciences and other orgs.; mem. New York Acad. of Sciences, World Medical Assn., Royal Soc. of Medicine, Pan American Medical Assn., American Clinical and Climatological Assn., Horseshoe Soc., and many other socs; John Horsley Memorial Prize, Univ. of Virginia 1944; Groedel Medal 1961; Commendation Medal. *Publications:* Sir William Osler; from his Bedside Teachings and Writings (3rd edn.) 1968, Vascular Spiders and Related Lesions of the Skin 1958, Aphorisms from Latham 1962, Rare Diseases and Lesions; their Contribution to Clinical Medicine 1967. Editor Monographs in Medicine 1951-52; Book Review Editor Archives of Internal Medicine 1955-61, Editor-in-Chief 1962-66; Editorial Consultant Modern Medicine 1964-67, Stedman's Medical Dictionary, Family Medical Quotations; Editor Current Medical Dialog 1967-75; Editor-in-Chief Texas Reports on Biology and Medicine 1977-. *Address:* 2814 Dominique, Galveston, Tex. *Telephone:* 77550, U.S.A.

BEARSTED, 3rd Viscount, cr. 1925, of Maidstone; **Marcus Richard,** T.D., D.L.; British banker; b. 1 June 1909, London; s. of 2nd Viscount and Dorothea Montefiore Micholls; m. 1st Elizabeth Heather Firmston-Williams 1947 (dissolved 1966), 2nd Jean Agnew Somerville 1968 (died 1978); one d.; ed. Eton and New Coll., Oxford. Army service with Warwickshire Yeomanry (Major) 1939-45; Chair. 1928 Investment Trust Ltd., Samuel Properties Ltd., Hill Samuel & Co. (Jersey) Ltd., Tanker Finance Ltd., Negit S.A. Luxembourg; fmr. Chair., now Dir. Hill Samuel Group Ltd.; Dir. Sun Alliance and London Insurance Group, Lloyd's Bank Ltd. and others; Deputy Lieut. of Warwickshire 1950-; mem. Board of Kensington and Chelsea and Westminster Area Health Authority 1973-77; official of several hospitals; fmr. Chair. Bearsted Memorial Hospital; Pres. St. Mary's Hospital Medical School. *Leisure interests:* hunting, shooting, fishing, tapestry. *Address:* 100 Wood Street, London EC2P 2AJ (Office); 3 Netherton Grove, London, SW10 9TQ (Home).; Upton House, Nr. Banbury, Oxon., OX15 6HT, England, (Country). *Telephone:* 01-628 8011 (Office); 01-730 8855 (Home), 029-587-242 (Country).

BEATON, Sir Cecil Walter Hardy, Kt., C.B.E.; British photographer and designer; b. 14 Jan. 1904; ed. Harrow and Cambridge. Photographer, stage and film designer; settings and costumes for Black Vanities, Kipps, Pitt the Younger, Anna Karenina, An Ideal Husband, Gigi, The Doctor's Dilemma; stage productions: Lady Windermere's Fan (London and New York), The Second Mrs. Tanqueray, Quadrille (London and New York), Portrait of ■ Lady (New York), The Chalk Garden, My Fair Lady (New York and London), Vanessa (New York), Turandot, Coco; exhbns. of paintings and stage designs Redfern Gallery, London 1936, 1958, 1965, Sagitarrius Gallery, N.Y. 1956, Lefevre Gallery, London 1966; retrospective exhbn. of photographs at Nat. Portrait Gallery, London 1968-69, Michael Parkin Gallery 1976. *Publications:* The Book of Beauty 1930, Cecil Beaton's Scrapbook 1937, Cecil Beaton's New York 1939, My Royal Past 1939, History Under Fire (with James Pope-Hennessey) 1941, Time Exposure (with Peter Quennell) 1941, Winged Squadrons 1942, Near East 1943, British Photographers 1944, Far East 1945, Chinese Album 1946, Ashcombe 1949, Photobiography 1951, Ballet 1951, Persona Grata (with Kenneth Tynan) 1953, The Glass of Fashion 1954, It Gives me Great Pleasure 1955, The Face of the World 1957, Japanese 1959, Diaries 1922-1939: The Wandering Years 1961, Quail in Aspic 1962, My Fair Lady 1964, Diaries: The Years Between 1965, The Best of Beaton 1968, My Bolivian Aunt 1971, Diaries: The Happy Years 1972, Diaries: The Strenuous Years 1973, The Magic Image 1975, Diaries: The Restless Years 1976, Diaries: The Parting Years 1978. *Address:* Reddish House, Broadchalke, nr. Salisbury, Wilts., England.

BEATTIE, (John) Robert, B.A.; Canadian economist and banker; b. 30 May 1910, Greenwood, B.C.; s. of John Thomas Beattie and Mary Maude Minkler; m. 1st Katharine McIntyre 1937 (deceased), 2nd Mary Angus Rogers 1964; four d.; ed. Univ. of Manitoba and Oxford Univ; with Manufacturers' Life Insurance Co., Toronto 1933-35; entered Bank of Canada, Ottawa 1935, Deputy Chief of Research Dept. 1940, Chief of Research Dept. 1944, Exec. Asst. to Govs. 1950, Sr. Deputy Gov. 1955-72; Econ. and Financial Consultant to Canadian Arctic Gas Study Ltd. 1972-. *Leisure interest:* golf. *Address:* South Dene Farm, R.R.2 Mountain, Ont., Canada. *Telephone:* (613) 989-5202.

BEATTY, Warren, American actor; b. 30 March 1937, Richmond, Virginia; s. of Ira Beatty and Kathlyn Maclean; ed. Stella Adler Theatre School. Film appearances include: Splendor in the Grass 1961, Roman Spring of Mrs. Stone 1961, All Fall Down 1962, Lilith, 1965, Mickey One 1965, Promise Her Anything 1966, Kaleidoscope 1966, Bonnie and Clyde 1967, The Only Game in Town 1969, McCabe and Mrs. Miller 1971, Dollars 1972, The Parallax View 1974, The Fortune, 1976, Heaven Can Wait 1978; producer, co-

screenwriter and actor in Shampoo 1975; TV appearances include: Studio One and Playhouse 90; theatre roles include: A Loss of Roses 1960. *Address:* c/o William Morris Agency, 151 El Camino, Beverly Hills, Calif. 90212, U.S.A.

BEAULNE, Joseph-Charles-Leonard Yvon; Canadian diplomatist; b. 22 Feb. 1919, Ottawa; s. of Leonard Beaulne and Yvonne Daoust; m. Thérèse Pratte 1946; five c.; ed. Univ. of Ottawa; served with Canadian Army in U.K., N. Africa, Italy and N.W. Europe; joined Canadian Dept. of External Affairs 1948, served Rome, Buenos Aires and Havana 1948-61; Amb. to Venezuela 1961-64; Minister in Washington 1964-67; Amb. to Brazil 1967-69; Perm. Rep. to UN 1969-72; Asst. Sec. of State 1972-74; Dir.-Gen. Bureau of African and Middle Eastern Affairs, Dept. of External Affairs 1974-76; Perm. Del. to UN Human Rights Comm. and UNESCO 1976-. *Address:* UNESCO, 7 place de Fontenoy, 75700 Paris (Office); 40 avenue. Foch, 75016 Paris, France (Home). *Telephone:* 500-1979 (Home).

BEAUMARCHAIS, Jacques Delarue Caron de, L. EN D., G.C.V.O.; French diplomatist; b. 16 April 1913, Bayonne; ed. Ecole des Roches, Verneuil-sur-Avre, Faculté de Droit, Paris, and Ecole Libre des Sciences Politiques; entered French diplomatic service 1942; has served in Rome, London, Moscow and held various posts in Ministry of Foreign Affairs; Dir. of Cabinet of Minister of Foreign Affairs 1964; Dir. of Political Dept., Ministry of Foreign Affairs 1965-72; Amb. to U.K. 1972-77; Hon. Fellow, St. Antony's Coll., Oxford 1972; Commdr., Légion d'honneur, Commdr. Ordre nat. du Mérite, Ambassadeur de France. *Address:* 5 avenue Franklin-Roosevelt, 75008 Paris, France.

BEAUMONT, Sir Richard Ashton, K.C.M.G., O.B.E.; retired British diplomatist; b. 29 Dec. 1912; ed. Repton and Oriel Coll., Oxford; entered Consular Service 1936, served Beirut 1936, Damascus 1938; war service 1941-44; joined Foreign Office 1945, served Mosul 1946-47; Chargé d'affaires, Damascus 1947; Consul, Jerusalem 1948-49, Caracas 1949-53, Baghdad 1953-57; Imperial Defence Coll. 1958; Head of Arabian Dept. Foreign Office 1959-61; Amb. to Morocco 1961-65, to Iraq 1965-67; at Foreign Office 1967-69; Amb. to Egypt 1969-72; Dir.-Gen. Middle East Asscn. 1973-78; Gov. S.O.A.S. 1973–. *Address:* 14 Cadogan Square, London, S.W.1., England.

BEAUPRE, Robert Showers; American banker; b. 14 Feb. 1911, Anaconda, Mont.; m. Dorothy Fiala Beaupre 1940; one s. one d.; ed. Lewis and Clark High School, Spokane, Washington. Seattle First Nat. Bank 1929-76, Pres., Dir. 1961-76; Chair. of Board, Junior Achievement of Seattle; mem. Board of Trustees, Pacific N.W. Research Foundation, N.W. Kidney Center, N.W. Council for Econ. Educ., Washington Bankers' Asscn., Legislative Comm.; mem. Business and Industry Advisory Board, Seattle Opportunities Industrialization Center Inc. *Address:* Seattle First National Bank, P.O. Box 3586, Seattle, Wash. 98124, U.S.A.

BEAUVOIR, Simone Lucie Ernestine Marie Bertrand de; French writer; b. 9 Jan. 1908; ed. Paris Univ. Taught in various lycées 1931-43; awarded Prix Goncourt for Les mandarins 1954; Jerusalem Prize 1975; Hon. LL.D. (Cantab.); State Prize (Austria) 1978. *Publications:* Novels: Linvitée 1943 (English edn. She Came to Stay 1949, American edn. 1954), Le sang des autres 1945, (English and American edns. The Blood of Others 1948), Les mandarins 1945 (American edn. The Mandarins 1956, English edn. 1957), Tous les hommes sont mortels 1947 (American edn. All Men are Mortal 1955); Play: Les bouches inutiles 1954; non-fiction: Pyrrus et Cinéas 1944, Pour une morale de l'ambiguité (American edn. The Ethics of Ambiguity) 1948, L'Amérique du jour au jour 1948 (English edn. America Day by Day 1952, American edn. 1953), Le deuxième sexe 1949 (American edn. The Second Sex 1952, English edn.), Faut-il brûler Sade? 1951 (English and American edns. Must We Burn Sade? 1953), Privilèges 1957, La longue marche 1957 (American and English edns. The Long March 1958), Mémoires d'une jeune fille rangée 1958 (English edn. The Memoirs of a Dutiful Daughter 1959), Brigitte Bardot 1960, La force de l'age, La force des choses 1963 (English edn. Force of Circumstance 1965), Une Mort très douce 1964 (English edn. A Very Easy Death 1966), Les Belles images 1966, La femme rompue 1968 (English edn. The Woman Destroyed 1969), La vieillesse 1970 (English edn. The Coming of Age 1972); Tout compte fait 1972 (English edn. All Accounting Made 1972). *Address:* 11 bis rue Schoelcher, 75014 Paris, France.

BEAVEN, Peter Jamieson, DIP.ARCH., A.R.I.B.A., F.N.Z.I.A.; New Zealand architect; b. 13 Aug. 1925, Christchurch; s. of Eric Tamate Beaven and Maria Joan Jamieson; m. Anne Mary Beaglehole 1952; one s. two d.; ed. Christ's Coll., Christchurch, Univ. Coll., Auckland. Sub-Lieutenant Royal Naval Volunteer Reserve, Far East; practised in Christchurch for twenty years; founded first New Zealand Civic Trust; Chair. Environment Advisory Cttee., Christchurch City Council; Principal, Beaven Hunt Assocs.; Gold Medal, N.Z. Inst. of Architects 1966, various merit awards in N.Z. architecture. *Leisure interests:* yachting, sketching, painting, walking, reading. *Publications:* Urban Renewal Report (N.Z. Govt.), co-author New Zealand Architecture 1840-1970 1973. *Address:* Beaven Hunt Associates, P.O. Box 1766, Christchurch (Office), 22 Salisbury Street, Christchurch 1, New Zealand (Home).

BEAVOGUI, Louis Lansana; Guinean politician; b. 1923, Macenta; ed. West African Medical School, Dakar; former Asst. Medical Officer, Gueckedou, S. Guinea; later Medical Officer, Kissidougou, later becoming Mayor; Minister of Trade, Industry and Mining, Guinea 1957-58, of Econs. 1958-61, of Foreign Affairs 1961-69, of Econ. Affairs 1969-72; Prime Minister 1972-, also responsible for the Army, Foreign Affairs, Planning, State Control and Information 1972-. *Address:* Office of the Premier, Conakry, Guinea.

BEAZLEY, Kim Edward, M.A.; Australian politican; b. 30 Sept. 1917, Northam, W. Australia; ed. Perth Modern School, Claremont Teachers' Coll., Univ. of W. Australia, Australia Nat. Univ.; worked as schoolteacher and tutor until 1945; mem. Parl. for Fremantle, W. Australia 1945-; mem., Vice-Chair. Joint Parl. Cttee. on Foreign Affairs 1967-70; Minister of Educ. 1972-75; mem. of Council, Australian Nat. Univ. 1951-, Australian Inst. of Aboriginal Studies 1964-, Advisory Council, Australian Commonwealth Scientific and Industrial Research Org. (CSIRO); fmr. Vice-Pres. Teachers' Union, Councillor Australian Teachers' Fed.; del. to Commonwealth Parl. Asscn. Conf., Nigeria 62; Labor Party. *Address:* Parliament House, Canberra, A.C.T., Australia.

BECERRA DE LA FLOR, Dr. Daniel; Peruvian surgeon and politician; b. 23 Jan. 1906, Moquegua; s. of Dr. Daniel Becerra and Isabel de la Flor; m. Yolanda Tabini 1934; one s. one d. Assoc. Prof. of Surgery, Univ. Nacional de San Marcos de Lima, 1954-61; Principal Prof. and Head of Dept. of Surgery Cayetano Heredia School of Medicine; Senator 1963-68; Prime Minister and Minister of Public Health 1965-67; Pres. Peruvian Acad. of Surgery 1967-69; Founder-Pres. Peruvian Soc. of Gastroenterology 1954; Consultant Surgeon Navy Medical Centre 1953-; Gran Cruz Orden del Sol 1966; Gran Cruz Hipólito Unanue 1965; Gran Cruz Daniel A. Carrión 1965; many hon. degrees. *Leisure interests:* painting, fishing, golf. *Address:* Angamos 1192 (Miraflores), Lima, Peru.

BECHER, Ulrich; Austrian-Swiss writer; b. 2 Jan. 1910, Berlin, Germany; s. of Richard Becher and Elisa Ulrich von Rickenbach; m. Dana Roda 1934; one s.; ed. Werner-Siemens-Gymnasium, Berlin, Freie Schulgemeinde Wickersdorf, and Univs. of Geneva, Berlin and Leipzig. Former mem. George Grosz circle, Berlin; went to Vienna 1933; newspaper corresp. Paris and Switzerland; escaped to Zürich 1938; in Rio de Janeiro 1941-43, Brazilian interior 1944, New York City 1945-48, Basle 1949-; Drama Prize, German Stage Club, Cologne for Mademoiselle Löwenzorn 55, Swiss Schiller Foundation Prize 1976. *Publications:* Männer machen Fehler (short stories) 1932, Die Eroberer (short stories) 1936, Nachtigall will zum Vater fliegen (novel) 1950, Kurz nach 4 (novel) 1957, Männer machen Fehler, Geschichten der Windrose (collected short stories) 1958, Das Herz des Hais (novel) 1960, Brasilianischer Romanzero 1962, plays: Niemand 1934, Der Bockerer (with Peter Preses) 1948, Der Pfeifer von Wien (with P. Preses) 1950, Samba 1951, Feuerwasser 1952, Mademoiselle Löwenzorn 1954, Die Kleinen und die Grossen 1957, Der Herr kommt aus Bahia 1958, Makumba 1965, Biene gib mir Honig 1972; Murmeljagd (novel in 5 vols.) (American edn. Woodchuckhunt): Tote Zeit, Licht im See, Geisterbahn I, Geisterbahn 11, Die Strasse über San Gian 1969, Der schwarze Hut 1972, Das Profil (novel) 1973, William's Ex-Casino (novel) 1974, SIFF (Selective Identification of Friend and Foe) (essays) 1978. *Address:* Spalenring 95, Basle, Switzerland. *Telephone:* 22-51-70.

BECHTEL, Stephen Davison; American engineer-constructor; b. 24 Sept. 1900, Aurora, Ind.; s. of Warren A. and Clara (West) Bechtel; m. Laura Adaline Peart 1923; one s. one d.; ed. Univ. of Calif; joined W.A. Bechtel Co., Vice-Pres. 1925-36, Pres. 1936-46; First Vice-Pres. Six Companies Inc. (constructors of Hoover Dam) 1931-35; Dir. Bechtel-McCone Corpn. 1937-46; during Second World War Chair. Calif. Shipbuilding Corpn.; now Senior Dir. Bechtel Corpn.; Dir. various Bechtel engineering and construction corporations and international affiliates; Dir. Stanford Research Inst. 1949-; Pres. Lakeside Corpn.; Dir. Industrial Indemnity Co. and Southern Pacific Co.; Trustee Ford Foundation 1960-70; mem. Business Advisory Council U.S. Dept. of Commerce 1950-61 (Chair. 1958-59), The Business Council 1961-; Hon. LL.D., D. Eng.; John Fritz Medal 1961, Nat. Defense Transportation Award 1960, Order of Cedar (Lebanon), Knight Order of St. Sylvester (Holy See), Kt. Commdr. Court of Honour. *Address:* 244 Lakeside Drive, Oakland, California 94612 (Office); 155 Sansome Street, San Francisco, California 94104, U.S.A. (Home).

BECK, Béatrix Marie; Swiss writer; b. 30 July 1914; ed. Lycée de St. Germain-en-Laye and Université de Grenoble; fmr. Sec. to André Gide; journalist; mem. Jury, Prix Fémina; Prix Goncourt for Léon Morin, prêtre; Prix Félix Fénéon. *Publications:* Barny, Une mort irrégulière, Léon Morin, prêtre, Des accommodements avec le ciel, Le premier mai, Abram Krol, Le muet, Cou coupé, court toujours.

BECK, Conrad; Swiss composer; b. 16 June 1901, Lohn, Schaffhausen; m. Friedel Ehrsam 1941; two s.; ed. Konservatorium, Zürich; further musical studies in Paris with Ibert, Honegger and Roussel 1923-32; Ludwig Spohr Prize, City of Brunswick, Composers Prize of Asscn. of Swiss composers, Kunstpreis, City of Basel; Commdr. Order of Cultural Merit, Monaco 1973. *Principal works:* seven symphonies, many other symphonic works, concertos, two oratorios, cantatas, chamber music, etc., including Der Tod zu Basel (Miserère), Die Sonnenfinsternis, Elegie. *Leisure interest:* mountaineering. *Address:* St. Johann Vorstadt 82, Basel, Switzerland. *Telephone:* 250451.

BECK, Robert A.; American insurance executive; b. 6 Oct. 1925, New York, N.Y.; s. of Arthur C. and Alma (Wickware) Beck; m. Frances Kenny 1948; three s. two d.; ed. Bronx High School of Science, Syracuse Univ., Syracuse, N.Y; joined The Prudential Insurance Co. of America ■ Special Agent 1951, Pres. 1974-78; Chair. CEO Sept.1978-; Dir. Prudential Insurance Co. of America, Pruco, Inc., Pruco Life, Campbell Soup Co., Xerox Corpn.; Chair. of Board, Health Insurance Asscn. of America; Vice-Chair. Greater Newark Chamber of Commerce; mem. Boards of United Way, New Jersey Historical Soc., Channel 13, Syracuse Univ.; mem. Corporate Advisory Council of Columbia Univ. Graduate School of Business; Pres. Milford Reservation, Inc.; Trustee, Cancer Inst. of New Jersey; mem. Knights of Malta. *Leisure interests:* golf, fishing, scuba diving, sailing, jogging, squash, paddle ball, the arts. *Address:* The Prudential Insurance Company of America, Prudential Plaza, Newark, N.J. 07101 (Office); 8 Somerset Drive, Rumson, N.J. 07760, U.S.A. (Home).

BECKER, Aharon; Israeli labour official; b. 1906, Brest-Litovsk, Russia; m. Cyla Selzer 1930; one s. two d.; went from Russia to Israel 1924; mem. Kibbutz 1925; building worker 1925-28; Sec. Ramat Gan Labour Council 1929-32; Sec. Union of Textile Workers 1933-34; mem. Exec. of Labour Council in Tel-Aviv 1934-43; Man. Dir. Industrial Dept., Co-operative Wholesale Soc. 1943-47; Head of Supply Mission, Ministry of Defence 1947-48; Head of Trade Union Dept. and mem. Exec. Bureau, Histadrut 1949-60, Sec.-Gen. 1961-69; Deputy mem. Governing Body of ILO 1956-70; mem. Knesset; mem. Secr. of Israel Labour Party; mem. Council of Dirs, Bank of Israel. *Publications:* Numerous articles in Hebrew and British press; various booklets and publications on economic and labour problems. *Address:* 66 Keren Kayemet Boulevard, Tel-Aviv, Israel.

BECKER, Carl Johan; Danish archaeologist; b. 3 Sept. 1915, Copenhagen; s. of Carol Becker and Henry Becker (née Döcker); m. Birgit Hilbert 1949; three d.; ed. Metropolitanskolen, Københavns Universitet. Asst., Nat. Museum 1934-41, Asst.-Keeper 1941-52; Prof. of Prehistoric Archaeology, Univ. of Copenhagen 1952-, Dean Faculty of Arts 1963-64, mem. Konsistorium 1964-70; Chief Ed. Acta Archaeologica 1948-; mem. Royal Danish Acad. of Sciences and Letters, Danish Research Council for the Humanities 1968-75; Corresp. Fellow, British Acad.; mem. Cttee. of Thai-Danish Archaeological Expedition and numerous European Prehistoric and Archaeological societies; Knight First Class Order of Danebrog. *Publications:* Enkeltgravkulturen på de danske Øer 1936, Mosefundne Lerkar fra Yngre Stenalder 1948, Die Mittel-Neolithischen Kulturen in Südskandinavien 1955, 1971, Förromersk Jernalder i Syd-og Midtjylland 1961. *Leisure interest:* numismatics. *Address:* 23 Egernvej, DK-2000-Copenhagen F., Denmark. *Telephone:* 01-86-57-11.

BECKER, Gert; German company executive; b. 21 Aug. 1933, Kronberg; s. of Otto Becker and Henriette (née Syring); m. Margrit Bruns 1960; one s. one d.; ed. Akademie für Welthandel, Frankfurt. Sales Dept., Degussa, Frankfurt 1956; with Rep. office in Tehran, Iran 1960, with subsidiary in São Paolo, Brazil 1963, Div. Man., Frankfurt 1966, Dir. 1971, Man. Dir. Degussa, Frankfurt April 1977-. *Leisure interests:* literature, book collecting, golf. *Address:* Degussa, Weissfrauenstrasse 9, Postfach 2644, 6000 Frankfurt ■ Main (Office); Friedrichstrasse loo, 6242 Kronberg, Taunus, Federal Republic of Germany (Home). *Telephone:* 0611-218(1)-2231 (Office); 06173-4456 (Home.)

BECKER, Hans Detlev; German publisher and journalist; b. 11 June 1921, Freiburg, Elbe; s. of Albert Becker and Hildegard Becker; m. Elisabeth Burkhard 1953; ed. Univ. of Münster. Man. Ed. Der Spiegel 1950-58, Chief Ed. 1959-61, Publr. 1962-; Publisher, Gen. Man. Manager Magazine 1971-; mem. German Press Council 1975-. *Leisure interest:* golf (captain of Reinbek-Wohltorfer Golf-club). *Address:* c/o Spiegel-Verlag, 2 Hamburg 11, Brandstwiete 19 (Office); 2057 Wentorf, Bez. Hamburg, Am Golfplatz 3, Federal Republic of Germany (Home). *Telephone:* 040-3007246 (Office).

BECKER, Isidore A., B.A.; American company executive; b. 10 May 1926, New York, N.Y.; s. of Max and Eva (née Chester) Becker; m. Adele Sandler 1947; one s. one d.; ed. Brooklyn Coll. Partner, Herbert D. Silver & Co. 1956-63; Dir. Rapid-American Corpn. 1964–, Financial Vice-Pres. and Chair. Financial Cttee. 1964-72, Vice-Chair. of Board 1967-72, June 1976-, Pres. 1972-76; Treas. and Chief Financial Officer, McCrory Corpn. 1964-70, Dir. 1964-; Vice-Chair. and Dir., Glen Alden Corpn. 1964-72; Chair. of Board, Shenley Industries 1968-. *Address:* 888 Seventh Avenue, New York, N.Y. 10019 (Office); 215 East 68th Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* (212) 957-2271 (Office).

BECKER, Jürgen; German writer; b. 10 July 1932, Cologne; s. of Robert Becker and Else Becker, née Schuchardt; m. 1st Marie Becker 1954 (dissolved 1965), one s.; m. 2nd Rango Bohne 1965, one step s. one step d.; ed. Univ. of Cologne. Various jobs until 1959; freelance writer and contributor to W. German Radio 1959-64; Reader at Rowohlt Verlag 1964-65; freelance writer 1965-, living in Cologne, Berlin, Hamburg and Rome; Förderpreis des Landes Niedersachsen 1964; Stipendium Deutsche Akad. Villa Massimo, Rome 1965, 1966; Group 47 Prize 1967, Literaturpreis der Stadt Köln 1968. *Publications:* Phasen (Text and Typogramme with Wolf Vostell) 1960, Felder (Prose) 1964; Ränder (Prose) 1968, Bilder, Häuser (Radio Play) 1969; Ed. Happenings (documentary with Wolf Vostell) 1965. *Address:* c/o Suhrkamp-Verlag, 6 Frankfurt/M; 5 Köln-Bruck, Am Klausenberg 84, Federal Republic of Germany. *Telephone:* 8401-53.

BECKETT, Samuel, M.A.; Irish author; b. 13 April 1906; ed. Portora Royal School and Trinity Coll., Dublin. Lecturer Ecole Normale Supérieure, Paris, 1928-30, Trinity Coll., Dublin 1930-32; now lives in Paris; Foreign Hon. mem. American Acad. of Arts and Sciences 1968; Prix Formentor 1961, Nobel Prize for Literature 1969; Croix de Guerre. *Publications:* Verse: Whoroscope 1930, Echo's Bones 1935; Novels: Murphy 1938, Watt 1944, Mercier et Camier 1946 (English edn. 1974), Molloy 1951 (English edn. 1956), Malone meurt 1952 (English edn. 1956), L'Innommable 1953 (English edn. 1957), Comment c'est (English edn. 1963), Imagination Dead Imagine 1966, Collected Poems in English and French 1977; Short Stories: More Pricks than Kicks 1934, Nouvelles et textes pour rien 1955, Le Depeupleur 1971 (English Version The Lost Ones 1972), Four Novellas 1977; Stage Plays: En attendant Godot 1952 (English version Waiting for Godot), Fin de partie 1957 (English version Endgame), Krapp's Last Tape 1959, Happy Days 1960, Play 1963, Not I 1973; Radio Plays: All that Fall 1957, Embers 1959, Words and Music 1961, Cascando 1964, Ends and Odds 1977; TV Plays: Ghost Trio and . . . But the Clouds 1977, Essay: Proust 1965; No's Knife; Collected Shorter Prose 1945-66 1967. *Address:* c/o Faber and Faber Ltd., 3 Queen Square, London, W.C.1, England; and c/o Editions de Minuit, 7 rue Bernard Palissy, 75006 Paris France.

BECKETT, Sir Terence (Norman), Kt., C.B.E., B.Sc., C.ENG., F.I.MECH.E., F.B.I.M., F.I.M.I.; British business executive; b. 13 Dec. 1923, Walsall, Staffs.; s. of Horace Norman and Clarice Lillian (née Allsopp) Beckett; m. Sylvia Gladys Asprey 1950; one d.; ed. Wolverhampton and South Staffs. Tech. Coll., London School of Econs. Capt. Royal Electrical and Mechnical Eng., served in Britain, India and Malaya 1945-48; joined Ford Motor Co. ■ Asst. 1950, Styling Man., Briggs Motor Bodies Ltd. (Ford subsidiary) 1954, Admin. Man., Engineer, then Man. Product Staff 1955, Gen. Planning Man., Product Planning Staff 1961, Man. Marketing Staff 1963, Dir., Car Div., Ford Motor Co. Ltd. 1964, Exec. Dir. 1966, Dir. of Sales 1968, Vice-Pres. European and Overseas Sales Operations, Ford of Europe 1969; Chair., Man. Dir., Chief Exec., Ford Motor Co. Ltd. 1974-; Chair. Ford Motor Credit Co. Ltd.; Dir. ICI, Ford Nederland N.V., Ford Lusitana S.A.RL., Portugal, Henry Ford & Son Ltd., Ireland, Ford Motor Co. A/S, Denmark, Ford Motor Co. AB, Sweden; mem. of Council and President's Cttee. CBI, Council and Exec. Cttee. Soc. of Motor Mfr and Traders, Eng. Industries Council, Governing Body of London Business School, Council of Motor Cycle Trades Benevolent Fund; Gov., Cranfield Inst. of Tech., National Inst. of Econ. and Social Research, London School of Econs.; Pres. Essex County Voluntary Association for the Blind.; Hon. D.Sc. (Cranfield Inst. of Tech.) 1977.; Hambro Businessman of the Year Award 1978; *Leisure interests:* ornithology, music. *Address:* Ford Motor Company Limited, Eagle Way, Warley, Brentwood, Essex CM13 3BW, Essex, England (Office). *Telephone:* Brentwood 253000 (Office).

BEDELL, Ralph Clairon, A.M., PH.D.; American university professor and public servant; b. 4 June 1904, Hale, Mo.; s. of Charles Edward Bedell and Jennie Eaton Bedell; m. 1st Stella Virginia Bales 1929 (deceased), 2nd Ann Barclay Sorency 1968 (deceased), 3rd Myra Jervey Hoyle 1976; ed. Central Missouri State Univ. and Univ. of Missouri-Columbia. Prof. of Educational Psychology, Northeast Mo. State Univ. 1933-37; Dean of Faculty, Cen. Mo. State Univ. 1937; Prof. of Educational Psychology and Measurements, Univ. of Nebraska 1938-50; served Navy 1942-45; Prof. of Psychology and Educ., The American Univ., Washington, D.C. 1950-52; with U.S. Office of Educ., Dept. of Health, Educ. and Welfare 1952-66; on leave 1955-58; Sec.-Gen. South Pacific Comm. Nouméa, New Caledonia 1955-58; Prof. of Educ., Univ. of Missouri-Columbia 1967-74; Emer. Prof. 1974-, Consultant and Research Assoc. 1974-75; Consultant, Stephens Coll. 1975-76; Consultant, Lincoln Univ. of Missouri 1976-77; Consultant, Mo. Co-ordinating Board for Higher Ed. 1976-78. *Publications:* General Science for To-day (co-author) 1936, Pre-Flight Aeronautics (co-author) 1942, Basic Guidance for Nebraska Schools (Editor) 1948. *Address:* 106 South Ann, Columbia, Mo. 65201, U.S.A. *Telephone:* (314) 443-3006.

BEDFORD, Steuart John Rudolf, B.A., F.R.C.O., F.R.A.M.; British conductor; b. 31 July 1939, London; s. of L. H. and Lesley (Duff) Bedford; m. Norma Burrowes 1969; ed. Lancing Coll., Sussex, Oxford Univ., Royal Acad. of Music.; operatic training ■ repetiteur, asst. conductor, Glyndebourne Festival 1965-67; English Opera Group (now English Music Theatre), Aldeburgh and London 1967-73; Artistic Dir. and Resident Conductor, English Music Theatre and Aldeburgh Festival 1975-; freelance conductor, numerous performances with English Opera Group, Welsh Nat. Opera, Metropolitan Opera, New York (operas include Death in Venice, The Marriage of Figaro), Royal Danish Opera; also at Royal Opera House, Covent Garden (operas include Owen Wingrave, Death in Venice, Cosí fan tutte) Santa Fe Opera, Teatro Colón, Buenos Aires, Brussels, Lyon etc.; conductor for BBC, Netherlands Radio, Belgian Radio; Medal of the Worshipful Co. of Musicians. *Leisure interests:* golf, skiing. *Address:* c/o Harrison-Parrott Ltd., 22 Hillgate Street, London, W.8, England.

BEDI, Bishan Singh, B.A.; Indian cricketer; b. 25 Sept. 1946, Amritsar; s. of late Gyan Singh Bedi and Rajinder Kaur Bedi; m. Glenith Jill 1969; one s. one d.; ed. Punjab Univ.; employed by State Bank of India, New Delhi; slow left-arm bowler; has played for India in 53 tests 1966-, captained India in 14 Tests; has captained Delhi in Ranji Trophy and North Zone in Duleep Trophy; played for Northants. 1972-77; Padma Shri 1969; Arjuna Award 1971. *Leisure interests:* reading, photography, swimming and letter-writing. *Address:* 1250-Azad Nagar, Putlighar, Amritsar, Punjab, India. *Telephone:* 43133.

BÉDIÉ, Henri Konan, L. EN D., D. ÈS SC.; Ivory Coast economist and politician; b. 1934, Dadiékro; m. Henriette Koizan 1958; two s. two d.; ed. Poitiers Univ., France.; worked as civil servant in France 1959-60; Counsellor at French Embassy, Washington, D.C. May-Aug. 1960; founded Ivory Coast mission to the UN 1960; Chargé d'affaires for Ivory Coast to U.S.A. 1960, Amb. 1960-66; Amb. to Canada 1963-66; Minister of Econ. and Finance 1966-77; Special Adviser for African affairs to Int. Finance Corpn. Jan. 1978–; mem. Bureau Politique, Parti Démocratique de la Côte d'Ivoire (PDCI) 1965-; Pres. OAMPI (Office africain et malgache de la propriété industrielle); Pres. BOAD (Banc africaine de développement); Admin, UNESCO Int. Cultural Funds; Grand Officier de l'Ordre national (Ivory Coast), Commdr. Légion d'honneur, Grand Officier Ordre nationale du Mérite and other orders and decorations. *Address* 1818 H Street, N.W., Washington, D.C. 20433 (Office); 2845 McGill Terrace, N.W., Washington, D.C. 20008, U.S.A. (Home).

BEDJAOUI, Mohammed; Algerian politician; b. 21 Sept. 1929; ed. Univ. of Grenoble and Institut d'Etudes Politiques, Grenoble. Lawyer, Court of Appeal, Grenoble 1951; research worker at Centre Nat. de la Recherche Scientifique (CNRS) Paris 1955; Legal Counsellor of the Arab League in Geneva 1959-62; Legal Counsellor Provisional Republican Govt. of Algeria in Exile 1958-61; Dir. Office of the Pres. of Nat. Constituent Assembly 1962; mem. Del. to UN 1962; Sec.-Gen. Council of Ministers, Algiers 1962-63; Pres. Soc. Nat. des Chemins de Fer Algériens (SNCFA) 1964; Dean of the Faculty of Law, Algiers Univ. 1964-; Minister of Justice and Keeper of the Seals 1964-70; mem., special reporter, Comm. on Int. Law, UN 1965-; Amb. to France 1970-; Perm. Rep. to UNESCO 1971-; Carnegie Endowment for Int. Peace 1956; Ordre du Mérite Alaouite, Morocco; Order of the Repub., Egypt. *Publications:* International Civil Service 1956, Fonction publique internationale et influences nationales 1958, La révolution algérienne et le droit 1961, Succession d'états 1970, Terra nullius, droits historiques et autodetermination 1975, Non-alignement et droit international 1976, Pour un Nouvel Ordre International 1979. *Address:* Embassy of Algeria, rue Hamelin 18, 75016 Paris, France; 39 rues des Pins, Hydra, Algiers, Algeria.

BEDSER, Alec Victor, O.B.E.; British cricketer and company director; b. 4 July 1918, Reading; s. of Arthur and Florence Beatrice Bedser; ed. Monument Hill Secondary School, Woking.; joined professional staff of Surrey County Cricket Club 1938; served R.A.F. 1939-46; selected for England v. India June 1946; played in 51 Test Matches; ■ bowler, took record number of Test wickets (236, since beaten) including 104 v. Australia; retd. from 1st class cricket 1960; mem. England Cricket Selection Cttee. of Test and County Cricket Board 1962-, Chair. 1968-; Asst. Man. (to the late Duke of Norfolk) MCC tour to Australia 1962-63, Man. MCC tour to Australia 1974-75; started office equipment firm in partnership with twin brother, Eric A. Bedser 1955. *Publications:* Our Cricket Story (with Eric A. Bedser) 1951, Bowling 1952, Following On (with Eric A. Bedser) 1954, May's Men in Australia 1959. *Leisure interests:* cricket, golf, gardening, charities. *Address:* The Coppice, Carlton Road, Woking, Surrey, GU21 4HQ, England.

BEEBY, Clarence Edward, C.M.G., M.A., PH.D.; New Zealand educationist and administrator; b. 16 June 1902, Leeds, England; s. of Anthonv Beeby and Alice Beeby (née Rhodes); m. Beatrice Eleanor Newnham 1926; one s. one d.; ed. Christchurch Boy's High School, Canterbury Coll., Univ. of New Zealand, Univ. Coll., London, and Univ. of Manchester. Lecturer in Philosophy and Education, Canterburv Univ. Coll., Univ. of N.Z. 1923-34; Dir. N.Z. Council for Educational Research 1934-38; Asst. Dir. of Education, Education Dept., N.Z. 1938-40, Dir. of Education 1940-60 (on leave of absence 1948-49); Asst. Dir.-Gen. of UNESCO 1948-49; Ambassador to France 1960-63; leader N.Z. Dels. to Gen. Confs. of UNESCO 1946, 1947, 1950, 1953, 1954, 1956, 1958, 1960, 1963; Hon. Counsellor of UNESCO 1950; mem. of UNESCO Exec. Board 1960-63, Chair. 1963; Research Fellow, Harvard Univ. 1963-67; Chair. UNESCO Evaluation Panel for World Functional Literacy Projects 1967-70; Commonwealth Visiting Prof., Univ. of London 1967-68; Consultant to Australian Govt. on educ. in Papua and New Guinea 1969; Consultant to Ford Foundation in Indonesia 1970-77; UNDP Consultant to Ministry of Educ., Malaysia 1976; mem. Council of Consultant Fellows, Int. Inst. for Educ. Planning 1972-78; Order of St. Gregory (first class); Hon. LL.D. (Otago), Hon. Lit.D. (Wellington); Mackie Medal (ANZAAS) 1971. *Publications:* The Intermediate Schools of New Zealand 1938, Entrance to University (with W. Thomas and M.H. Oram) 1939, The Quality of Education in Developing Countries 1966, Qualitative Aspects of Educational Planning (editor) 1969. *Leisure interests:* cabinet making, trout fishing, gardening. *Address:* New Zealand Council for Educational Research, P.O. Box 3237, Wellington (Office); 73 Barnard Street, Wellington, New Zealand (Home). *Telephone:* 557-939 (Office); 725-088 (Home).

BEECHING, Baron (Life Peer), cr. 1965; **Richard Beeching,** A.R.C.S., B.SC., D.I.C. PH.D., C.I.MECH.E., F.INST.P.; British business executive; b. 21 April 1913, Sheerness, Kent; s. of Hubert Josiah Beeching and Annie Beeching (née Twigg); m. Ella Margaret Tiley 1938; ed. Maidstone Grammar School and Imperial Coll. of Science and Technology, London. Fuel Research Station, Greenwich 1936-37; Mond Nickel Co. 1937-43; Armaments Design Dept., Fort Halstead 1943-48; joined ICI 1948, "Terylene" Council 1951-53, Vice-Pres. ICI (Canada) Ltd. 1953, Chair. Metals Div. 1955, Dir. ICI 1957-61; Dir. British Nylon Spinners Ltd. 1959; Dir. ICI (Australia and New Zealand) Ltd. 60; Chair. British Transport Comm. 1961-63, Chair. British Railways Board 1963-65; rejoined ICI 1965, Deputy Chair. 1966-March, 1968; Chair. Royal Comm. on Assizes and Quarter Sessions 1966-69; Chair. Redland Ltd. 1970-76, Furness Withy & Co. Ltd. 1973-75, Econ. Insurance Co. Ltd. 1973-75; Dir. Lloyds Bank Ltd. 1965-; First Pres. Inst. of Work Study Practitioners 1967-72; Pres. Royal Soc. for the Prevention of Accidents (RoSPA) 1968-73; mem. Nat. Econ. Devt. Council (NEDC) 1962-64, Top Salaries Review Body 1971-75; Fellow of Imperial Coll.; Hon. LL.D. (London Univ.), Hon. D.Sc. (Nat. Univ. of Ireland). *Leisure interest:* golf. *Address:* Little Manor, Lewes Road, East Grinstead, Sussex, England. *Telephone:* East Grinstead 25477.

BEELEY, Sir Harold, K.C.M.G., C.B.E., M.A.; British diplomatist; b. 15 Feb. 1909, London; s. of Frank Arthur Beeley; m. Karen Brett-Smith (née Shields) 1958; one step s. three d., two step d.; ed. Highgate School and Queen's Coll., Oxford. Lecturer at Univs. of Sheffield, London, Oxford and Leicester 1930-39; entered Foreign Service 1946; Counsellor, Copenhagen 1949-50, Baghdad 1950-53, Washington 1953-55; Ambassador to Saudi Arabia 1955; Asst. Under-Sec. Foreign Office 1956-58; Deputy Perm. Rep. to UN 1958-

61; Amb. to United Arab Republic 1961-64, 1967-69; Perm. Rep. of U.K. to Disarmament Conf., Geneva 1964-67; retired from Diplomatic Service 1969; Lecturer, Queen Mary Coll., London 1969-75; Pres. Egypt Exploration Soc. 1969-; Chair. World of Islam Festival Trust 1973-; Chair. Arab-British Centre 1977-. *Publication:* Disraeli 1936. *Address:* 2 Ormond Road, Richmond, Surrey, England. *Telephone:* 01-940 1193.

BEER, (Georges) Henrik (Teodor Waldemar), M.A.; Swedish International Red Cross official; b. 22 Nov. 1915, Stockholm; s. of Waldemar Beer and Valborg Beer (née Granath); m. Barbro Selldén 1949; three s.; ed. Univ. of Stockholm.; Sec. Nat. Defence League 1942-44; Dir. Swedish Govt. Comm. for Int. Relief 1944-47; Sec.-Gen. Swedish Red Cross 1947-60; Sec.-Gen. League of Red Cross Societies 1960-; Sec.-Gen. XVII Int. Red Cross Conf. 1948; Exec. Dir. Folke Bernadotte Memorial Foundation 1951-62; Pres. Henry Dunant Inst. 1970-72. *Leisure interests:* ornithology, music. *Address:* League of Red Cross Societies, 17 Chemin des Crets, Petit-Saconnex, 1211 Geneva 19, Switzerland. *Telephone:* 34-55-80.

BEER, Otto F., DR. PHIL.; Austrian writer, journalist and professor; b. 8 Sept. 1910, Vienna; s. of Leopold J. Beer and Emma Beer (née Pabst); m. Gerty Mothwurf 1949; ed. Univ. of Vienna. Editor Neues Wiener Journal and Neues Wiener Tagblatt until 1939; Chief Editor Salzburger Nachrichten 1945; Drama Critic, Welt am Abend 1946-48, Der Standpunkt, Merano 1948-52, Neues Österreich, Vienna 1952-67, Österreichischer Rundfunk 1967-, Süddeutsche Zeitung 1967-. *Publications:* Zehnte Symphonie 1952, Wiedersehen in Meran 1952, Ich-Rodolfo-Magier 1965, Christin-Theres 1967; comedies: Man ist nur zweimal jung 1955, Operette 1960, Die Eintagsfliege 1961, Bummel durch Wien 1971, Der Fenstergucker 1974, Einladung nach Wien 1977. *Leisure interest:* music. *Address:* Lederergasse 27, Vienna VIII, Austria. *Telephone:* 42-04-84.

BEER, Samuel Hutchison, PH.D.; American university professor; b. 28 June 1911; ed. Staunton Military Acad., Univ. of Michigan, and Oxford and Harvard Univs. Writer, Resettlement Admin. and Democratic Nat. Cttee. 1935-36; Reporter New York Post 1936-37; Fortune magazine 1937-38; Instructor in Government, Harvard Univ. 1938-42, Asst. Prof. 1946-48, Assoc. Prof. 1948-53, Prof. of Govt. 1953-, Chair. Dept. of Govt. 1954-58, Eaton Prof. of Science of Govt. 1971-; Nat. Chair. Americans for Democratic Action 1959-62; U.S. Army 1942-45. *Publications:* The City of Reason 1949, Treasury Control: The Coordination of Financial and Economic Policy in Great Britain 1956, Patterns of Government: Major Political Systems of Europe (co-author) 1958 (3rd edn. 1973), Modern British Politics 1965, The State and the Poor 1970. *Address:* 87 Lakeview Avenue, Cambridge, Mass., U.S.A.

BEERS, William O.; American food company executive; b. 26 May 1914; s. of Ernest and Rose (Binz) Beers; m. 1st Mary E. Holmes (deceased), 2nd Frances L. Miller 1954; two s. three d.; ed. Univ. of Wisconsin.; joined Kraft, Inc. 1937, Dir. 1965-, Pres. 1968-73, Chair. 1972-; Pres. Kraft Foods Div. 1965-68; Dir. Manufacturers Hanover Trust Co., Manufacturers Hanover Corpn., A. O. Smith Corpn., American Airlines, Sears, Roebuck, U.S. Steel Corpn.; Trustee, American Enterprise Inst., Cttee. for Econ. Devt. Consumer Research Inst.; mem. Listed Advisorv Cttee., New York Stock Exchange, Emergency Cttee. for American Trade; Dir. Grocery Mfrs. of America Inc.; mem. Business Council, Alumni Foundation, Univ. of Wis.; Hon. LL.D. (Univ. of Wis.). *Address:* Kraft, Inc., Kraft Court, Glenview, Ill. 60025, U.S.A.

BEETHAM, Bruce Craig, M.PHIL., J.P.; New Zealand politician; b. 23. Feb 1936, New Plymouth; s. of Stanley De Velle and Frances Agnes (née Amy) Beetham; m. Raewyn Natalie Mitchell 1965; three s., one d; ed. New Plymouth Boys' School and Univ. of Waikato.; taught at New Plymouth Boys' High School 1959-63, and at Taupo Coll. 1964-65; Senior Secondary Asst., Pio Pio District High School 1966; Lecturer in History, Hamilton Teachers Coll. 1967; fmr. Asst. Secretary N.Z. Teachers Colls. Assn.; Research Chair. N.Z. Social Credit Political League 1970, Vice-Pres. 1971-72, Pres. 1972-; mem. of Parl. for Rangitikei Feb. 1978-; mem. Parl. Statutes Revision Cttee. 1978-; Mayor of Hamilton 1976-77; mem. Council of Univ. of Waikato; Exec. mem. of Hamilton Regional Planning Authority; Group Controller Hamilton Civil Defence Org. *Leisure interests:* tennis, rugby *Address:* c/o Social Credit Political League, 170 Cuba St., Wellington, 1; 8A Wymer Terrace, Hamilton, New Zealand (Home).

BEEVERS, Harry, PH.D.; American biologist; b. 10 Jan. 1924, Shildon, England; s. of Norman and Olive Beevers; m. Jean Sykes 1949; one s.; ed. Univ. of Durham. Post-doctoral research, Univ. of Oxford 1946-50; Asst. Prof. of Biology, Purdue Univ. 1950-53, Assoc. Prof. 1953-58, Prof. 1958-69; Prof. of Biology, Univ. of Calif., Santa Cruz 1969-; Pres. American Soc. of Plant Physiologists 1961; mem. Nat. Acad. of Sciences; Sigma Xi Research Award, Purdue Univ. 1958; McCoy Research Award 1968, Stephen Hales Award, American Society of Plant Physiologists 1970; Hon. D.Sc. Purdue Univ. 1971, Univ. of Newcastle upon Tyne 1974; Fellow American Acad. of Arts and Sciences 1973. *Publications:* Respiratory Metabolism in Plants 1961; 150 articles on plant metabolism in scientific journals. *Leisure interest:* gardening. *Address:* Division of Natural Sciences, University of California, Santa Cruz, Calif. 95060 (Office); 46 South Circle Drive, Santa Cruz, Calif. 95060, U.S.A. (Home). *Telephone:* (408) 429-2046 (Office); (408) 423-4484 (Home).

BEGG, Admiral of the Fleet Sir Varyl, G.C.B., D.S.O., D.S.O., K.ST.J., P.M.N. (Malaysia); British naval officer; b. 1 Oct. 1908, London; s. of F. C. Begg and M. C. Robinson; m. Rosemary Cowan 1943; two s.; ed. St Andrews School, Eastbourne, Malvern Coll., Naval Staff Coll. and Imperial Defence Coll. Royal Navy 1926-, Gunnery Officer 1933, H.M.S. Glasgow 1939-40, H.M.S. Warspite 1940-43; commanded H.M. Gunnery School, Chatham 1948-50, 8th Destroyer Flotilla 1950-52, H.M.S. Excellent 1952-54, H.M.S. Triumph 1955-56, Chief of Staff to C.-in-C. Portsmouth 1957-58; Flag Officer Commanding Fifth Cruiser Squadron and Flag Officer, Second-in-Command, Far East Station 1958-60; a Lord Commr. of Admiralty and Vice-Chief of Naval Staff 1961-63; C.-in-C. British Forces in Far East and U.K. Mil. Adviser to SEATO 1963-65; C.-in-C. Portsmouth and Allied C.-in-C. Channel Aug. 1965-Feb. 1966; Chief of Naval Staff and First Sea Lord Feb. 1966-68; Gov. and Commdr.-in-Chief Gibraltar 1969-73. *Leisure interests:* fishing, gardening. *Address:* Copyhold Cottage, Chilbolton, Stockbridge, Hants., England. *Telephone:* Chilbolton 320.

BEGIN, Menachem, M.J.; Israeli lawyer and politician; b. 16 Aug. 1913, Brest-Litovsk, Russia; s. of Zeev-Dov and Hassia Begin; m. Aliza Arnold; one s. two d.; ed. Mizrachi Hebrew School, Univ. of Warsaw. Head of Betar Zionest Youth Movement in Poland 1939; arrested and held in concentration camp in Siberia 1940-41; C.-in-C. of Irgun Zvai Leumi in Israel 1942; founded (now Chair.) Herut (Freedom) Movement in Israel 1948-; mem. Knesset (Parl.); Minister without Portfolio 1967-70; Prime Minister June 1977-; Joint Chair. Likud (Unity) Party 1973-; Hon. Dir. (Bar Ilan Univ.); Hon. D. Litt. (Yeshiva Univ., N.Y.) 1978; Nobel Prize for Peace (shared with Pres. Sadat) 1978. *Publications:* The Revolt: personal memoirs of the Commander of Irgun Zvai Leumi 1949, The White Nights, Behmatret 1978. *Address:* Office of the Prime Minister, Jerusalem; 1 Rosenbaum Street, Tel-Aviv, Israel (Home).

BEGOUGNE DE JUNIAC, Gontran; French diplomatist; b. 28 July 1908, Limoges; s. of Octave Begougne de Juniac and Madeleine Desgranges; m. Myriam des Moutis 1959; one s.; ed. Ecole Montalembert, Limoges, Ecole Libre des Sciences Politiques, Paris, and Univ. de Paris à la Sorbonne. Deputy Consul 1935; Sec. of Embassy, Berlin 1936-37, Moscow 1937-41; Ministry of Foreign Affairs 1941; Sec. of Embassy, Dublin 1945-47; Div. of Cultural Relations, Ministry of Foreign Affairs 1947-49, Sec.-Gen. of Four Powers Conf. 1949; Counsellor, Washington 1949-55; Minister and Minister-Counsellor, London 1955-60; Amb. to Ethiopia 1960-65, to Turkey 1965-70, to Belgium 1970-73; Commdr. Légion d'honneur, Commdr. Order nat. du Mérite. *Publications:* Le Dernier Roi des Rois; articles in Revue des Deux Mondes. *Address:* 11 boulevard du Général Koenig, Neuilly/Seine, France. *Telephone:* 624-07-06 (Home).

BÉGUIN, Bernard, L. ès L.; Swiss Journalist; b. 14 Feb. 1923, Sion, Valais; s. of Bernard Béguin and Clemence Welten; m. Antoinette Waelbroeck 1948; two s. two d.; ed. Geneva High School, Geneva Univ. and Graduate Inst. of Int. Studies. Swiss Sec. World Student Relief 1945-46; corresp. at U.N. European Headquarters; Journal de Genève 1946-70, Foreign Ed. 1947, Ed.-in-Chief 1959-70; Diplomatic Commentator, Swiss Broadcasting System 1954-59, Swiss T.V. 1959-70; Head of Programmes, Swiss French-speaking TV 1970-73; Deputy Dir. Radio and T.V. 1973-; Cen. Pres. Swiss Press Assen. 1958-60, Hon. mem. 1974-; mem. Federal Comm. on Cartels 1964-; mem. Board, Swiss Telegraphic Agency 1968-71. *Leisure interests:* sailing, camping. *Address:* 6 avenue de la Gare, 1001 Lausanne (Office); 41 avenue de Budé, 1202 Geneva 1, Switzerland (Home). *Telephone:* Lausanne 20-59-11 (Office); 33-75-30 (Home).

BEIER, Max Walter Peter, DR. PHIL.; Austrian museum curator and professor; b. 6 April 1903, Spittal-Drau, Kärnten; s. of Julius Beier and Marie Beier (née Mitis); m. Irmgard Zeitheim 1931; two s. one d.; ed. Univ. of Vienna. Natural History Museum, Vienna 1927-; Dir. Emer. Zoological Dept.; Corresp. mem. Argentine Entomological Soc., Finland Entomological Soc.; Hon. mem. Netherlands Entomological Soc.; Fabricius Medal 1966; Dr. h.c. (Innsbruck) 1970. *Publications:* over 370 scientific publications.

Address: Naturhistorisches Museum, Zoologische Abteilung, Burgring 7, A-1014 Vienna (Office); Proschkogasse 1/10, 1060 Vienna, Austria (Home). *Telephone:* 93-27-12, Ext. 267.

BEINECKE, William Sperry; American lawyer and business executive; b. 22 May 1914; ed. Phillips Acad., Andover, Westminster School, Connecticut, Yale Univ. and Columbia Univ., New York.; admitted to New York Bar 1941; Assoc. Chadbourne, Wallace, Parke and Whiteside 1940-41, 1946-48; U.S. Navy 1941-45; Partner, Casey, Beinecke and Chase 1948-51: Gen. Counsel, The Sperry and Hutchinson Co. 1952-54, Gen. Counsel and Vice-Pres. 1954-60, Pres. 1960-67, now Chair., Chief Exec. Officer and Dir., Dir. Mfrs. Hanover Trust Co. and other companies. *Address:* Sperry and Hutchinson Building, 330 Madison Avenue, New York, N.Y. 10017, U.S.A.

BEISE, S. Clark, B.S.; American banker; b. 13 Oct. 1898, Windom, Minn.; s. of Dr. Henry C. and Blanche (Johnson) Beise; m. Virginia Carter 1934; one s. one d.; ed. Univ. of Minnesota School of Business. Regimental supply sergeant in First World War; worked with Minneapolis Trust Co. 1922-24, with Nat. Bank Examiners Minneapolis office (covering Ninth Fed. Reserve District) 1924-27; with People's Nat. Bank Jackson (Mich.) rising to Vice-Pres. 1927-33; Nat. Bank Examiner, Twelfth Fed. Reserve District 1933-36; Vice-Pres. Bank of America 1936-45, Exec. Vice-Pres. 1945-51, Senior Vice-Pres. 1951-54, Pres. 1954-63, Chair. Exec. Cttee. 1963-69, Hon. Dir. 1969-; mem. Cttee. for Econ. Devt., Conf. Board; fmr. Dir. Stanford Research Inst., Walt Disney Productions; frm. Chair. San Francisco Foundation; mem. Business Council; fmr. mem. Board Fruehauf Corpn.; Hon. Chair. Golden Gate Chapter, American Red Cross; frm. mem. Advisorv Council, San Francisco Planning and Urban Renewal Assen.; Hon. LL.D. St. Mary's Coll. of Calif. 1960; Ordine del Merito della Repubblica Italiana 1957. *Address:* Bank of America Center, San Francisco, Calif. 94137 (Office); 420 El Cerrito Avenue, Hillsborough, Calif. 94010, U.S.A. (Home).

BEITH, Sir John Greville Stanley, K.C.M.G.; British diplomatist; b. 4 April 1914, London; s. of William Beith and Margaret Stanley; m. Diana Gregory-Hood (née Gilmour); one s. one d.; one step s. one step d.; ed. Eton and King's Coll., Cambridge. Diplomatic Service 1937-, Athens, Buenos Aires, Foreign Office 1940-49; Head of U.K. Del. to UN, Geneva 1949-53; First Sec. and Head of Chancery, Prague 1953-54; Counsellor and Head of Chancery, Paris 1954-59; Head of Levant Dept. Foreign Office 1959-61, North and East African Dept. 1961-63; Amb. to Israel 1963-66; Asst. Sec.-Gen. NATO 1966-67; Under-Sec. Foreign and Commonwealth Office 1967-69; Amb. to Belgium 1969-74. *Leisure interests:* music, racing, tennis. *Address:* Dean Farm House, Sparsholt, Winchester, Hants., England. *Telephone:* Sparsholt 326.

BEITZ, Berthold; German industrialist; b. 26 Sept. 1913; m. Else Hochheim 1939; three d., ed. secondary school. Bank apprentice; employment in Shell, Hamburg; in charge of the Galician oilfields, Poland 1939-44; Deputy Chair. British Zonal Insurance Control Dept. 1946; Dir.-Gen. Iduna Germania Insurance Co. 1949-53; General-bevollmächtigter Dr. Alfried Krupp von Bohlen and Halbach 1953-67; Chair. Board of Curators, Alfried Krupp von Bohlen und Halbach-Stiftung; Chair. Supervisory Board, Fried. Krupp G.m.b.H., Essen; mem. Supervisory Board, Dresdner Bank AG, Friedrich Flick Industrieverwaltung KGaA, Grundig AG; mem. Int. Olympic Cttee. 1972; Fed. Cross with Star; Commandorium with Star of Order of Merit (Poland). *Leisure interests:* yachting and hunting. *Address:* Hügel 14, 43 Essen-Bredeney, Federal Republic of Germany. *Telephone:* 188-4810.

BÉJART, Maurice Jean, (b. Maurice Berger); French dancer, choreographer and stage director; b. 1 Jan. 1927, Marseilles; s. of Gaston Berger; ed. Lycée in Marseilles. With Marseilles Opera and Royal Opera, Stockholm, before founding Ballet de l'Etoile, Paris 1954, Dir. 1954-57; Dir., Ballet Théâtre de Paris 1957-59; Dir. Ballet du XXe. Siècle, Brussels 1959-, Brussels Opera, Théâtre Royal de la Monnaie; Grand Prix de la Musique 1970; Chevalier de l'Ordre des Arts et des Lettres. *Productions include:* Orphée, Le voyage, Le sacre du printemps, Les noces, Don Juan, Boléro, Symphonie pour un homme seul, Nijinsky, Clown of God (ballets); The Merry Widow, Tales of Hoffmann, Ode à la Joie (IXe symphonie), La damnation de Faust, Messe pour le temps présent, Romeo et Juliette, Prospective, Baudelaire, Ni fleurs—ni couronnes, La tentation de St-Antoine, A la recherche de . . . , Le marteau sans maître, La Traviata, Per la Dolce Memoria di quel Giorno 1974, Ce que l'amour dit 1974, Chants d'amour et de guerre 1975, Notre Faust 1975, Petrushka 1977. *Publications:* Mathilde ou le temps perdu (novel), La Reine verte (play). *Address:* Théâtre royal de la Monnaie, 4 rue Léopold, Brussels, Belgium.

BEJM, Tadeusz; Polish politician; b. 27 April 1929, Kuźnica Stara nr. Klobuck; ed. Higher Econ. School, Sopot. Member of Meat Industry Cen. Board, Katowice; army and navy service 1950-53; Polish Ocean Lines, Gdynia 1953-58; First Sec. Gdańsk-Portowa District Cttee., Polish United Workers' Party (PZPR) 1958-59, Propaganda Sec. Gdańsk Town Cttee. 1959-63; Chair. Presidium of Gdańsk Town Nat. Council 1963-69; First Sec. Gdańsk Voivod Cttee., PZPR 1971-75; Minister of Admin., Local Economy and Environmental Protection 1975-76, of Transport 1976-77, Minister-mem. Council of Ministers and Deputy Chair. Supreme Board of Control 1977-; mem. Cen. Cttee., PZPR 1971-; Knight's Cross, Order of Polonia Restituta 1969, Order of Banner of Labour, 2nd Class 1974. *Address:* Najwyższa Izba Kontroli, ul. Marszałkowska 82, 00-517 Warsaw, Poland.

BELAFONTE, Harry; American singer; b. 1 March 1927, New York; s. of Harold George Balfonte Sr. and Malvene Love Wright; m. 2nd Julie Robinson 1957; one s. three d.; ed. George Washington High School, New York.; in Jamaica 1935-39; service with U.S. Navy 1943-45; American Negro Theater; student at Manhattan New School for Social Research Dramatic Workshop 1946-48; first engagement at the Vanguard, Greenwich Village; European tours 1958, 1976; Pres. Belafonte Enterprises Inc.; Broadway appearances in Three For Tonight, Almanac, Belafonte At The Palace, and in films Bright Road, Carmen Jones 1952, Island in the Sun 1957, The World, the Flesh and the Devil 1958, Odds Against Tomorrow 1959, The Angel Levine (also producer) 1969; produced with Sidney Poitier Buck and the Preacher 1971 (also acted), Uptown Saturday Night 1974; Emmy Television Award for Tonight with Belafonte 1960; Producer Strolling —'s 1965, A Time for Laughter 1967, Harry and Lena 1970; Hon. D.Hum. (Park Coll., Mo.) 1968, Hon. D.Arts, New School of Social Research, N.Y. 1968; numerous recordings. *Leisure interests:* photography, water skiing, recording. *Address:* c/o Belafonte Enterprises Inc., 157 West 57th St., New York, N.Y. 10019, U.S.A.

BELAÚNDE TERRY, Fernando; Peruvian architect and politician; b. 7 Oct. 1913; ed. France and U.S.A. Member Chamber of Deputies 1945-48; Dean in School of Architecture, Lima 1948-56; Leader Acción Popular (AP) 1956-; Presidential Candidate 1956,1962; President of Peru 1963-68 (deposed by military coup); fled to New York Oct. 1968; lecturing at Harvard Univ. Nov. 1968; returned to Peru briefly Dec. 1970, deported at end of month, returned Jan. 1976. *Publications:* Peru's Own Conquest (autobiography).

BELCHER, Taylor Garrison; American diplomatist (retd.); b. 1 July 1920, Staten Island, New York; s. of Taylor Belcher and Miriam Frazee; m. Edith Athony 1942; two s.; ed. Brown Univ., Providence, R.I. U.S. Navy 1942-45; U.S. Foreign Service 1945-, Mexico Citv 1945-49, Consul, Glasgow 1950-54; International Affairs Officer, Dept. of State 1954-57; Consul and Consul-Gen. Nicosia, Cyprus 1957-60; Canadian National Defense Coll. 1960-61; Dir. Office of West Coast Affairs, Bureau of Inter-American Affairs, Dept. of State 1961-64; Amb. to Cyprus 1964-69, to Peru 1969-72; Pres. Cyprus Relief Fund of America, Cyprus Children's Fund of America. *Leisure interests:* Hudson River preservation, stamps, World Crafts Council. *Address:* The Dock House, Garrison-on-Hudson, New York, N.Y. 10524, U.S.A. *Telephone:* (914) 424-3101.

BELFRAGE, Leif Axel Lorentz, LL.D.; Swedish diplomatist; b. 1 Feb. 1910; m. Greta Jering 1937; one s. three d.; ed. Stockholm Univ.; practised law at Stockholm Magistrates Court 1933, subsequently joined Ministry of Commerce; Dir. Swedish Clearing Office 1940; Dir. Swedish Trade Comm. 1943-45; entered Foreign Office 1945, Head of Section in Commercial Dept. 1945-46; Commercial Counsellor, Washington 1946-49; Head of Commercial Dept., Foreign Office, Stockholm 1949-53; Asst. Under-Sec. of State at Foreign Office 1953-56, Perm. Under-Sec. of State 1956-67; Amb. to U.K. Dec. 1967-72; Amb. and Rep. to OECD and UNESCO 1972-76; Man. adviser PKbanken, Stockholm 1976-; Hon. G.B.E. (U.K.) *Address:* PKbanken, Hamngatan 12, S-103 81, Stockholm, Sweden. *Telephone:* 781-80-00.

BELGIUM, King Baudouin I of (see Baudouin).

BELGIUM, Archbishop Primate of (see Suenens, Cardinal Joseph).

BELGODÈRE, Paul Louis; French mathematician; b. 25 Feb. 1921, Saint-Denis; m. Madeleine Odette Sarros 1945; two d.; ed. Ecole Normale Supérieure. Secretary-Gen. Intermédiaire des Recherches Mathématiques 1943-49; Technical Assoc. Centre Nat. de la Recherche Scientifique 1944-; Sec. Mathematical Soc. of France 1946-; Mathematical Librarian, Ecole Normale Supérieure 1950-54; Gen. Sec. Inst. Henri Poincaré 1954-. *Address:* Institut Henri Poincaré, 11 rue Pierre et Marie Curie, F-75231 Paris Cedex 05, France. *Telephone:* (1) 033-42-10.

BELIN, Roger, D.IUR.; French civil servant; b. 21 March 1916; m. Christiane Bressac 1961; ed. Univ. of Paris Law Faculty, Paris School of Political Sciences. Auditeur Conseil d'Etat 1943; Chargé de Mission, Présidence du Conseil 1944; Maître des Requêtes, Conseil d'Etat 1949; mem. Atomic Energy Cttee. 1951; Dir. Présidence du Conseil 1955; Sec.-Gen. of the Government 1958-; Pres. Régie Autonome des Transports Parisiens 1964-; Conseiller d'Etat 1965-; Pres. Union Int. des Transports Publics 1973; Commdr. Légion d'honneur. *Address:* 9 boulevard Flandrin, 75016 Paris, France.

BELL, David Elliott; American economist; b. 20 Jan. 1919; ed. Pomona Coll., and Harvard Univ.; joined Budget Bureau 1941; served U.S. Marine Corps; Second World War; Budget Bureau 1945-47; Asst. in White House 1947-51; Admin. Asst. to Pres. Truman 1951-53; Head, Harvard Univ. Economic Advisory Group to Pakistan 1954-57; Lecturer in Economics, Littauer Center (Harvard Graduate School of Public Admin.) 1957, Sec. (Chief. Admin. Officer) 1959-61; Dir. U.S. Budget Bureau 1961-62; Administrator, Agency for Int. Devt. 1962-66; Vice-Pres. (Int. Activities), Ford Foundation 1966-69, Exec. Vice-Pres. 1969-. *Address:* Ford Foundation, 320 East 43rd Street, New York, N.Y. 10017, U.S.A.

BELL, Elliott Vallance, A.B.; American publisher; b. 25 Sept. 1902; ed. Columbia University. Financial writer N.Y. Herald-Tribune 1929, New York Times 1929-39; First Pres. N.Y. Financial Writers' Assn. 1938-39; economic adviser to Thomas E. Dewey 1939-40; research consultant to Wendell Wilkie 1940; mem. Editorial Board New York Times 1941-42; Supt. of Banks New York State 1943-49; Chair. Exec. Cttee. McGraw-Hill Inc. 1950-67; Editor and Publr. Business Week 1951-64; Dir. Carrier Corpn., etc.; Trustee Emer., Council on Foreign Relations; Trustee, R. W. Strauss Memorial Foundation; Hon. LL.D. Bard Coll., St. Lawrence Univ., Hon. D.C.S. Pace Coll. *Publication:* We Saw It Happen (with other correspondents New York Times) 1938. *Address:* 200 E. 66th Street, New York, N.Y. 10021 (Office); Quaker Hill, Pawling, N.Y. 12564, U.S.A. (Home).

BELL, George Douglas Hutton, C.B.E., PH.D., F.R.S.; British agricultural scientist; b. 18 Oct. 1905, Swansea; s. of George H. Bell and Lilian M. Hutton; m. Eileen G. Wright 1934; two d.; ed. Bishop Gore's School, Swansea, Univ. Coll. of N. Wales, and Univ. of Cambridge. Research Officer, Plant Breeding Inst. 1931, Univ. Demonstrator, Cambridge 1933, Lecturer 1944; Fellow, Selwyn Coll., Cambridge 1944-54, Hon. Fellow 1965; Dir. Plant Breeding Inst., Cambridge 1947-71; Research Medal, Royal Agric. Soc. of England 1956; Mullard Medal, Royal Soc. 1967; Hon. D.Sc. (Univs. of Reading, Wales and Liverpool), Hon.Sc.D. (Cambridge); Massey Ferguson Nat. Award 1973. *Publications:* Cultivated Plants of the Farm 1948, The Breeding of Barley Varieties in Barley and Malt 1962, Cereal Breeding in Vistas in Botany Vol. II 1963, Phylogeny of Temperate Cereals in Crop Plant Evolution 1965; papers on barley and breeding in Journal of Agricultural Science, etc. *Leisure interests:* music, theatre, natural history, sport, gardening. *Address:* 6 Worts Causeway, Cambridge, England. *Telephone:* 0223-47449.

BELL, Sir (George) Raymond, K.C.M.G., C.B.; British financial official; b. 13 March 1916; m. Joan Elizabeth Coltham 1944; four c.; ed. Bradford Grammer School, St. John's Coll., Cambridge.; entered Civil Service, Asst. Principal 1938; Ministry of Health 1938; H.M. Treasury 1939; war service Roval Navy, Lieut. R.N.V.R. 1941-44; Principal Civil Service 1945, Sec. (Finance), Office of High Commr. in Canada 1945-48; Asst. Sec. 1951; Counsellor, U.K. Perm. Del. to OEEC/NATO, Paris 1953-56; Principal Private Sec. to Chancellor of Exchequer 1958-60; Under Sec. 1960; mem. U.K. Del. to Brussels Conf. 1961-62, 1970-72, Deputy Sec. 1966; Deputy Sec. H.M. Treasury 1966-72; Vice-Pres. European Investment Bank (EIB) 1973-78, Hon. Vice-Pres. 1978-. *Leisure interests:* music, reading, travel. *Address:* Quartier des Bories, Aouste-sur-Syr, 26400 Crest (Drôme), France.

BELL, Griffin Boyette, LL.B.; American government official and fmr. judge; b. 31 Oct. 1918, Americus, Ga.; s. of A. C. and Thelma (née Pilcher) Bell; m. Mary Foy Powell 1943; one s.; ed. Georgia Southwestern Coll. and Mercer Univ.; served U.S. Army (Maj.) 1941-46; admitted to Ga. Bar 1947; practice in Savannah and Rome, Ga. 1947-53; Partner, King and Spalding, Atlanta 1953-59, Man. Partner 1959-61; Sr. Partner 1976; U.S. Judge, 5th Circuit Court of Appeals 1961-76; U.S. Attorney-Gen. Jan. 1977-; Chief of Staff to Gov. of Ga. 1959-61; Chair. Atlanta Comm. on Crime and Delinquency 1965-66; Visitor, Vanderbilt Univ. Law School; Trustee, Inst. of Continuing Legal Educ. in Ga.; mem. Board of Dirs., Fed. Judicial Centre 1974-; mem. American Law Inst., American Bar Assn.; Hon. LL.D. (Mercer Univ.) 1967. *Address:* Department of Justice, Constitution Avenue and 10th Street, N.W., Washington, D.C. 20530 (Office); 3100 Habersham Road, N.W., Atlanta, Ga. 30305, U.S.A. (Home).

BELL, James Dunbar, PH.D.; American fmr. diplomatist; b. 1 July 1911, Lebanon, New Hampshire; s. of Frank U. Bell and Louise Dunbar; m. Stephanie Anne Matthews 1961; three s. two d.; ed. Univs. of Chicago and New Mexico. Reporter Albuquerque Journal, New Mexico 1933-34; Chief Statistician, New Mexico Dept. of Public Welfare 1936-37; Instructor Gary Coll. 1939-41; Analyst, Office of Co-ordinator, Inter-American Affairs 1941-42; Special Asst., Dept. of Justice 1943-44; Prof. Hamilton Coll. 1946-47; Dept. of State 1944-70, Bogotà, Santiago, Manila 1944-52; Officer-in-Charge, Philippine Affairs, Washington 1953-54; Deputy Dir. Philippine and Southeast Asian Affairs 1954-55; Dir. Office of Southwest Pacific Affairs 1956-57, 1960-64; Deputy Chief of Mission and Counsellor, Jakarta 1957-59; Amb. to Malaysia 1964-69; Lecturer Merrill Coll., Univ. of Calif., Santa Cruz 1970-71; Acting Dir. Center for South Pacific Studies, Univ. of Calif., Santa Cruz 1973-74; Fellow of Merrill Coll. 1969-. *Leisure interests:* gold, politics. *Address:* 14 Kite Hill Road, Santa Cruz, Calif. 95060, U.S.A.

BELL, John Alexander Gordon; Canadian business executive; b. 16 Aug. 1929, Rivers, Manitoba; s. of John Edwin Bell, D.D. and Mary MacDonald (McIlraith) Bell; m. Charlene Elizabeth McCabe 1959; one s. one d.; ed. primary and secondary schools in Man. and Ont. With The Bank of Nova Scotia 1948-; at Queen and Church Branch, Toronto 1948; at Gen. Office on Inspection Staff 1953; Special Rep., London 1955; Man., West End, London 1957, Asst. Man. Toronto Branch 1959, Man., Halifax 1962, Ottawa 1964, Kingston, Jamaica 1965, Asst. Gen. Man. Kingston 1966, Man. Dir. 1967, Gen. Man. Metropolitan Toronto Region 1968, Deputy Chief Gen. Man. 1969, Exec. Vice-Pres. and Chief Gen. Man. 1972-; Dir. Bank of Nova Scotia and numerous cos. *Address:* The Bank of Nova Scotia, 44 King Street W., Toronto, Ontario, Canada (Office). *Telephone:* 866-6125.

BELL, Marie (pseudonym of Marie Bellon); French actress; b. 23 Dec. 1905; ed. Lycée de Bordeaux, Bordeaux and Paris Conservatoires. Pensionnaire and later Sociétaire, Comédie Française 1921-53; founded own company La Compagnie Marie Bell 1953; Dir. Théâtre du Gymnase 1959-; principal theatre roles in Phèdre, Le Misanthrope, Cyrano de Bergerac, Ruy Blas, etc.; produced and acted in Madame Princesse 1965-66. *Films include:* Carnet de Bal, Le colonel Chabert, La Bonne Soupe, 1963, Sandra 1965, Les Volets Clos 1973; Officier, Légion d'honneur, Commdr. de l'Ordre nat. du Mérite. *Address:* 32 avenue des Champs-Elysées, Paris 8e, France.

BELL, Sir Raymond (see Bell, Sir George Raymond).

BELL, Robert Edward, C.C., M.A., PH.D., F.R.S., F.R.S.C.; Canadian professor of physics; b. 29 Nov. 1918, England; s. of Edward R. Bell and Edith E. Rich; m. Jeanne Atkinson 1947; one d.; ed. elementary and high school, Ladner, B.C., Univ. of British Columbia and McGill Univ. Physicist, Nat. Research Council of Canada, Ottawa 1941-45; Physicist, Chalk River Nuclear Labs. 1946-56, on loan to McGill Univ. 1952-56; Assoc. Prof. of Physics, McGill Univ. 1956-60, Rutherford Prof. and Dir. Foster Radiation Lab. 1960-69, Dean of Graduate Studies and Research 1969-70; Principal and Vice-Chancellor, McGill Univ. 1970–; Pres. royal Soc. of Canada 1978–; Canadian Centennial Medal 1967, Medal for Achievement in Physics, Canadian Assn. of Physicists 1968; Companion of the Order, Canada 1971. *Publications:* over 50 articles in scientific journals and contributions to books. *Leisure interests:* reading, amateur carpentry. *Address:* McGill University, 845 Sherbrooke Street West, Montreal, P.Q. H3A 2T5 (Office); 363 Olivier Avenue, Montreal, Quebec H3Z 2C8, Canada (Home). *Telephone:* (514) 392-5347; (514) 935-3769.

BELL, Ronald Percy, M.A., LL.D., D.SC., D.TECH., F.R.S., F.R.S.E., F.R.I.C.; British professor of chemistry; b. 24 Nov. 1907, Maidenhead, Berks.; s. of Edwin Alfred Bell and Beatrice Annie Ash; m. Margery Mary West 1931; one s.; ed. Maidenhead County Boys' School and Balliol Coll., Oxford. Fellow, Balliol Coll., Oxford 1933-67, Vice-Master 1965-66, Hon. Fellow 1967; Univ. Reader in Physical Chemistry, Oxford 1955-66; Prof. of Chemistry, Univ. of Stirling, Scotland 1967-75, Emer. 75-; Hon. Research Prof., Univ. of Leeds 1976-; Chemical Soc. Liversidge Lecturer 1973-74; Spiers Memorial Lecturer 1975; Foreign mem. Royal Danish Acad. of Arts and Sciences 1962; Foreign Assoc. U.S. Nat. Acad. of Sciences 1972-; Foreign Hon. mem. American Acad. Arts and Sciences 1974; Leverhulme Emer. Fellow 1976; Hon. LL.D., (Ill. Inst. of Technology) 1964, Hon. D. Tech., Tech. Univ. of Denmark 1969; Hon. D.Sc. (Kent); Hon. D. Univ., (Stirling); Meldola Medal 1936, Chem. Soc. Award in Kinetics and Mechanism 1974. *Publications:* Acid-Base Catalysis 1941, Acids and Bases 1952 (2nd edn. 1969), The Proton in Chem-

istry 1959, The Tunnel Effect in Chemistry 1979. *Leisure interest:* music. *Address:* 28 Ayrsome Terrace, Leeds LS8 1BH; Bowderbeck, Buttermere, Cockermouth, Cumbria, England. *Telephone:* Leeds 664236; Buttermere 226.

BELLET, Pierre Rémy; French judge; b. 7 Sept. 1911, Maisons-Laffitte; s. of Daniel and Lilly (née Bourgeois) Bellet; m. Annette Hirchberg 1946; three s.; ed. Lycée Janson-de-Sailly, École des Sciences Politiques. Judge in Chartres 1938, Le Havre 1943, Lille 1945-47; Judge, Court of Appeal, Douai 1950, Amiens 1952; Vice-Pres., Tribunal of the Seine 1959; Pres. of Chamber, Court of Appeal, Paris 1964; Premier Vice-Pres., County Court of the Seine 1965, Judge of Appeal 1968, Pres. of Tribunal 1968-72; Chief Justice of the Supreme Court 1978-; Officier, Légion d'honneur, Commandeur, Ordre nat. de Mérite. *Leisure interests:* painting, sailing. *Address:* 15 avenue de Président Wilson, 7516 Paris, France.

BELLMON, Henry, B.S.; American farmer and politician; b. 3 Sept. 1921; ed. Oklahoma State Univ. U.S. Marine Corps 1942-46; mem. Okla. Legislature 1946-48; Farmer 1945-; State Chair. Republican Party 1960-62; Gov. of Oklahoma 1963-67; Chair. Nixon for President Cttee, 1968; Senator from Oklahoma 1969-. *Address:* 125 Russell Building, Washington, D.C. 20510; and Route One, Red Rock, Oklahoma, U.S.A.

BELLOW, Saul, B.S.; American writer; b. 10 June 1915, Montreal, Canada; ed. Northwestern Univ. Professor, Univ. of Minn. 1946-48; Prof. Princeton Univ. 1952-53; Prof. Univ. of Chicago 1964-; Nat. Book Award, Inst. of Arts and Letters 1953, Ford Foundation Grant 1959, Prix Int. de Littérature 1965, U.S. Nat. Book Award for The Adventures of Augie March 1954, Herzog 1965, Mr. Sammler's Planet 1971, Pulitzer Prize for Humboldt's Gift 1976, Nobel Prize for Literature 1976; Fellow, American Acad. of Arts and Sciences, Croix de Chevalier des Arts et Lettres. *Publications:* include contributions to numerous magazines and journals; also Dangling Man 1944, The Victim 1947, The Adventures of Augie March 1953, Seize the Day 1956, Henderson the Rain King 1959, Great Jewish Short Stories 1963, Herzog 1964, The Last Analysis 1964, Mosby's Memoirs and Other Stories 1968, Mr. Sammler's Planet 1969, Humboldt's Gift 1975, To Jerusalem and Back: A Personal Account (non-fiction) 1976. *Address:* University of Chicago, 1126 East 59th Street, Chicago, Ill. 60637, U.S.A.

BELLUSCHI, Pietro, DOTT.ING.; American architect; b. 18 Aug. 1899, Ancona, Italy; s. of Guido Belluschi and Camilla Dogliani; m. 1st Helen Hemila 1934 (deceased), 2nd Marjorie Bruckner 1965; two s.; ed. Univ. of Rome and Cornell Univ. Draftsman for A. E. Doyle, Architect, Portland, Ore. 1925-28; chief designer A. E. Doyle & Assoc. 1928-33, partner 1933-43; own architectural practice 1943–; Dean, School of Architecture and Planning, Mass. Inst. of Technology 1951-65; Fellow, American Acad. of Arts and Sciences, Royal Acad. of Fine Arts, Copenhagen; mem. Nat. Acad. of Design; life mem. Nat. Inst. of Arts and Letters; Gold Medal, Italian Charitable Soc.; Commendatore della Repubblica Italiana; Gold Medal, American Inst. of Architects 1972; numerous honorary degrees and other distinctions. *Principal works:* Portland Art Museum, Equitable Building, Oregonian Publishing Plant (all Portland, Ore.); Library for Bennington Coll., Vt. 1959; Juilliard School, Lincoln Center for the Performing Arts, N.Y. City 1969; Bank of America World Headquarters Building (San Francisco); many churches and temples in U.S.A. *Address:* 700 N.W. Rapidan Terrace, Portland, Ore. 97210, U.S.A.

BELMONDO, Jean-Paul; French actor, b. 9 April 1933, Paris; s. of Paul Belmondo (*q.v.*); m. 1952, divorced 1967; one s. two d.; ed. Ecole Alsacienne, Paris, Cours Pascal and Conservatoire national d'art dramatique; started career on the stage; mainly film actor since 1957; Pres. French Union of Actors 1963-66; Chevalier de l'Ordre nationale du Mérite et des Arts et des Lettres. *Plays acted in include:* L'hôtel du libre-échange, Oscar, Trésor-Party, Médée, La mégère apprivoisée; *Films acted in include:* Sois belle et tais-toi, A pied, à cheval et en voiture, les Tricheurs, Charlotte et son Jules, Drôle de dimanche 1958, Les Copains du dimanche, Mademoiselle Ange, A double tour, Classe tous risques, Au bout de souffle, L'Amour, La Novice, La Ciociara, Moderato Cantabile, Léon Morin Prêtre, Le Doulos 1962, Dragées au poivre, L'Aîné des Ferchaux, Peau de banane, 100,000 dollars au soleil 1963, Two Women, The Man From Rio, Echappement libre 1964, Les tribulations d'un Chinois en Chine, Pierrot le Fou 1965, Paris, brûle-t-il? 1966, Le Voleur 1966, Casino Royale 1967, The Brain 1969, La Sirène du Mississippi 1969, Un Homme qui me plaît 1970, Borsalino 1970, The Burglars 1972, La Scoumoune 1972, L'Héritier 1972, Le Magnifique 1973, Stavisky 1974, Peur sur la ville 1975, L'Incorrigible 1975, L'Alpageur, Le corps de mon ennemi 1976, L'Animal 1977, Flic ou Voyou 1979. *Publications:* 30 Ans et 25 Films (autobiog.) 1963.

BELMONDO, Paul; French sculptor; b. 8 Aug. 1898, Algiers; s. of Paul Belmondo and Rose Cerrito; m. Sarah M. Rainaud 1931; two s. (Jean-Paul Belmondo *q.v.*) one d.; ed. Algeria and Ecole des Beaux-Arts. Teacher, Ecole Nationale Supérieure des Beaux-Arts, Paris 1953-69; Pres. Inst. de France 1970-71; mem. Acad. des Beaux-Arts 1959-, Pres. 1970; Commdr. Légion d'honneur; Commdr. des Arts et des Lettres; Officier de l'ordre de Léopold; Prix de l'Afrique du Nord; Prix Blumenthal 1925; Prix des Beaux Arts, Paris 1956; Médaille de Vermeil, Paris. *Works include:* busts of Vlaminck, Clostermann, Maurice Genevoix and the Shah of Iran, reliefs, statues and works in the Musée National d'Art Moderne and Musée National d'Alger. *Address:* 77 avenue Denfert Rochereau, 75014 Paris, France.

BELOFF, Max, M.A., D.LITT., F.B.A., F.R.HIST.S., F.R.S.A.; British historian; b. 2 July 1913, London; s. of S. and M. Beloff; m. Helen Dobrin 1938; two s.; ed. St. Paul's School, Corpus Christi Coll. and Magdalen Coll., Oxford, Assistant Lecturer in History, Manchester Univ. 1939-46; Nuffield Reader in Comparative Study of Institutions, Oxford Univ. 1946-56; Fellow of Nuffield Coll. 1947-57; Gladstone Prof. of Govt. and Public Admin., Univ. of Oxford and Fellow of All Souls Coll. 1957-74; Principal, Univ. Coll. at Buckingham 1974-; Fellow of St. Antony's Coll., Oxford; Hon. D.C.L. (Bishop's Univ.); Hon. LL.D. (Univ. of Pittsburgh); Hon. D.Litt. (Bowdoin Coll.), Hon. Dr. Univ. (Aix-Marseille). *Publications:* Public Order and Popular Disturbances 1660-1714 1938, The Foreign Policy of Soviet Russia 1947-49, Thomas Jefferson and American Democracy 1948, Soviet Policy in the Far East 1944-51 1953, The Age of Absolutism 1660-1815 1954, Foreign Policy and the Democratic Process 1955, Europe and the Europeans 1957, The Great Powers 1959, The American Federal Government 1959, New Dimensions in Foreign Policy 1961, The United States and the Unity of Europe 1963, Europe du XIX et XX Siècle 1960-66 (Joint Editor), The Balance of Power 1968, The Future of British Foreign Policy 1969, Imperial Sunset, Vol. I 1969, The Intellectual in Politics 1970, The Government of the United Kingdom 1979. *Leisure interests:* cricket, opera. *Address:* University College at Buckingham, Buckingham, England. *Telephone:* Buckingham 4161.

BELOKUROV, Vladimir Vyacheslavovich; Soviet actor; b. 8 July 1904; ed. A. M. Gorky Higher Inst. of Public Education, Kazan. Pevsov Company, Kazan 1918-19; Kazan Theatre 1919-23; Moscow Theatre of Revolution 1924-36; Moscow Art Theatre Company 1936-; has starred in films 1932-; mem. All-Russian Theatrical Soc.; People's Artist of U.S.S.R.; State Prize; Order of Red Banner of Labour and medals. *Principal roles:* Kostylev (Lower Depths, Gorky), Yasha (Cherry Orchard, Chekhov), Kudryash (The Storm, Ostrovsky), Belogubov (A Lucrative Post, Ostrovsky), Mercutio (Romeo and Juliet, Shakespeare), Chichikov (Dead Souls, Gogol), Molchalin (Woe from Wit, Griboyedov), Grigory (Fruits of Enlightenment, Tolstoy), Alesha (Land, Virta), Veretennikov (Officer of the Fleet, Kron), Gvosdilin (Third Pathétique, Pogodin), Gavriil Nechai (Over the Dnieper, Korneichuk). *Address:* Moscow Art Theatre, 3 Proyezd Khudozhestvennogo Teatra, Moscow, U.S.S.R.

BELOUSOV, Vladimir Vladimirovich, D.SC.; Soviet geologist; b. 30 Oct. 1907, Moscow; s. of Vladimir and Xenia Belousov; m. Natalia Gourvitch 1931; one s.; ed. Moscow Univ. Consultant, Council for Research of Productive Resources under U.S.S.R. Acad. of Sciences 1931-32; geologist, Central Research Inst. of Prospecting 1932-38; Senior Scientific Assoc., U.S.S.R. Acad. of Sciences 1938-44; Head of Dept., Moscow Inst. for Prospecting 1942-49; Prof. 1940; Head of Geology Dept., Inst. of Physics of the Earth of U.S.S.R. Acad. of Sciences 1944-; Vice-Chair. Technical Council, U.S.S.R. Ministry of Geology 1947-56; Prof., Moscow Univ. 1953-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-; Chair. Soviet Geophysical Cttee. 1960-; Vice-Chair. Int. Geophysics Cttee. 1960-64; Pres. Int. Cttee. for Upper Mantle of the Earth Projects 1964-70; Head of Planetary and Marine Geophysics Dept., Inst. of Physics of the U.S.S.R. Acad. of Sciences 1975-; mem. Swedish, Indian and N.Y. Acads. of Sciences; Hon. mem. Geological Socs. of U.S.A., Belgium, India, France and U.K. *Publications:* Basic Problems in Geotectonics 1962, Crust and Upper Mantle of Continents 1966, Crust and Upper Mantle of Oceans 1968, Principles of Geotectonics 1975, and several articles in professional journals; principal work in problems of structure and development of the Earth's crust, relationship between deep and geological processes, tectonophysics. *Leisure interests:* skiing, tourism. *Address:* Soviet Geophysical Committee, Molodejnaia 3, Moscow 296, U.S.S.R.

BELOV, Nikolay Vasiliyevich; Soviet crystallographer; b. 14 Dec. 1891, Yanov, Poland; s. of Vasiliy Vasiliyevich and Olga Andreyevna; m. Aleksandra Grigorevna (Ivanova); two d.; ed. St. Petersburg Polytechnic Inst. Head, X-ray Dept., Inst. of Crystallography of U.S.S.R. Acad. of Sciences 1938-; Prof. of Crystallography, Gorky Univ. 1946-, Moscow Univ. 1953-; Vice-Pres. Int. Union of Crystallography 1957-63, Pres. 1966-69; Pres. Nat. Comm. of Soviet Crystallographers; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-53, mem. 1953-; Foreign mem. Polish Acad. of Sciences 1977-; Hon. mem. of Mineral Socs. of U.S.S.R., U.S.A., France, U.K., German Dem. Repub.; Fedorov Prize 1947, State Prize 1952, Order of Red Banner of Labour 1953, Order of Lenin (three times), Lomonosov Medal 1966, Hero of Socialist Labour 1969, Lenin Prize 1974, Order of October Revolution 1975. *Publications:* Structure of Ionic Crystals 1947, Structural Crystallography 1951, A Classroom Method of Deriving 230 Space Groups of Symmetry 1951, 1651 Schubnikov Groups 1956, Crystal Chemistry of Silicates with Large Cations 1961, Mineralogy—Periodic System 1975, Essays in Structural Mineralogy 1949-1978 (212 pieces), Systematic Analysis of Patterson Function Starting from Crystal Symmetry 1974. *Leisure interest:* swimming. *Address:* Institute of Crystallography, Academy of Sciences of U.S.S.R., 59 Leninsky Prospekt, Moscow, U.S.S.R.

BELSKY, Igor Dmitriyevich; Soviet choreographer; b. 28 March 1925; ed. Leningrad Ballet School. Dancer with Leningrad Kirov Theatre of Opera and Ballet 1943-62; Teacher of folk character dance at Leningrad Choreography School 1946-; Producer and Choreographer, Leningrad Kirov Theatre of Opera and Ballet 1959-62, Chief Choreographer 1962-; People's Artist of the R.S.F.S.R. *Principal roles:* Rotbart (Swan Lake), Nurali (Fountain of Bakhchiserai), Tybalt (Romeo and Juliet), Shurale (Yarushllin's Shurale), Severyan (Prokofiev's Stone Flower), Mako (Karayev's Thunder Road). *Chief productions:* Shores of Hope (Petrov) 1959, Leningrad Symphony (Shostakovich) 1961, Humpbacked Horse (Shchedrin) 1963. *Address:* Leningrad Kirov Theatre of Opera and Ballet, Ploshchad Iskusstva I, Leningrad, U.S.S.R.

BELTRÁN, Washington; Uruguayan newspaper executive and politician; b. 1914; ed. Universidad de la República, Montevideo; joined El País 1939, Sub-Dir. 1949-61, Co-Dir. 1961-; mem. House of Representatives 1946; founded Reconstrucción Blanca group 1954, and Unión Blanca Democrática group within Partido Nacional 1950; Senator 1950-73; Nat. Counsellor of Govt. 1962-65; Pres. of National Council of Govt. 1965-66. *Address:* c/o Ministerio de Relaciones Exteriores, Avenida 18 de Julio 1205, Montevideo, Uruguay.

BELTRÃO, Alexandre Fontana; Brazilian coffee executive; b. 28 April 1924, Curitiba, Paraná; s. of Alexandre Beltrão and late Zilda Fontana Beltrão; m. Anna Emilia Beltrão 1964; two c.; ed. Instituto Santa Maria, Curitiba, Univ. de São Paulo, Escola Nacional de Engenharia, Rio de Janeiro. Assistant engineer 1944; army officer 1945-46; asst. engineer, Dept. of Soil Mechanics, Inst. de Pesquisas Tecnológicas, São Paulo 1948; trained in regional planning at Inst. Nat. d'Aerophotogrametrie, Ministère de la Reconstruction, Paris and at Ministry of Works, London 1950-51; founder and Dir. of SPL (Planning Services Ltd.) 1954-; observer, Govt. of State of Paraná to UN Int. Coffee Conf. 1962; special adviser to Pres. Brazilian Coffee Inst. 1964; Chief Brazilian Coffee Inst. Bureau, N.Y. 1965-67; Pres. World Coffee Promotion Cttee. of Int. Coffee Org. 1965-67; Exec. Dir. Int. Coffee Org. May 1968-; Commdr. Order of Rio Branco. *Publications:* Paraná and the Coffee Economy 1963, essay on Economy of States of Paraná, Pará and Ceará (Brazil) 1958. *Address:* International Coffee Organization, 22 Berners Street, London, W.1, England. *Telephone:* 01-580 8595 (London); 267-2895 (Rio).

BELTRÃO, Hélio Marcos Penna, F.I.A.M.; Brazilian lawyer and economist; b. 15 Oct. 1916, Rio de Janeiro; s. of Heitor and Christianna Penna Beltrão; m. Maria Coutinho Beltrão 1966; one s. two d.; ed. Faculdade Nacional de Direito and New York Univ. Director and Pres. of Social Security Agency (IPASE-IAPI) 1941-46; Pres. Brazilian Petroleum Inst. 1954-56; Dir. of Petrobrás S.A. (Govt. Oil Co.) 1954-56; Sec. of Planning, State of Guanabara 1960-61; mem. Board Nat. Bank for Econ. Devt. 1961-62, 1972, Nat. Housing Bank 1965-, Itaipu Binacional 1974-; mem. Cttee. on Fed. Admin. Reorganization 1964-67; Minister of Planning and Gen. Co-ordination March 1967-Oct. 1969; Dir. and Vice-Pres. Mesbla S.A. (chain of dept. stores), Rio de Janeiro 1962-71; Pres. Ultra Group of Companies 1969-; Pres. Getec-Guanabara Química Industrial 1970-; Dir. and Vice-Pres. Paraiso Cement Co. 1970-73; Pres. Brazilian Acad. of Science and Admin. 1975-; mem. Board Companhia Siderurgica Nacional 1978-; Fellow, Int. Acad. of Management 1971-. *Leisure interest:* popular music. *Address:* Avenida Graça Aranhan, 206-12° andar, Rio de Janeiro RJ (Office); Rua Prudente de Moraes, 1179 Penthouse Ipanema, Rio de Janeiro RJ, Brazil (Home).

BELUKHA, Nikolay Andreyevich; Soviet politician; b. 16 Oct. 1920, Poltava, Ukraine; ed. Moscow Bauman Higher Technical School. Design Engineer, Chelyabinsk factory and research inst. in Leningrad 1945-48; Party Official 1948-63; Second Sec., Central Cttee., Communist Party of Latvia 1963-; mem. Bureau, Central Cttee., CP of Latvia; mem. Cen. Auditing Comm. of CPSU 1966-71, Candidate mem. Central Cttee. 1971-; Deputy Supreme Soviet of U.S.S.R. 1962-; mem. Comm. for Problems of Youth, Soviet of Nationalities; mem. CPSU 1948-. *Address:* Central Committee, Communist Party of Latvia, Riga, U.S.S.R.

BELYAYEV, Spartak Timofeyevich, DR.SC.; Soviet physicist; b. 27 Oct. 1923, Moscow; ed. Moscow State Univ. Junior research worker, senior research worker, Head of Laboratory, I. Kurchatov Inst. of Nuclear Physics 1952-62; Siberian Dept., Acad. of Sciences 1962-; Prof., Rector, Novosibirsk State Univ. 1965-; Corresp. mem. U.S.S.R. Acad. of Sciences 1964-68, Academician 1968-; mem. CPSU 1943-; Order of Lenin, Red Star, Order of October Revolution and medals. *Publications:* Scientific works in field of theory of atomic nucleus, particle movement in cyclotron, physics of relativistic plasma, statistic physics of quantum, many body systems. *Address:* Akademgorodok, Novosibirsk, U.S.S.R.

BEN ABBES, Youssef, M.D.; Moroccan physician and politician; b. 15 Aug. 1921, Rabat; m. Marie Ben Abbes; 2 c.; ed. Marrakesh, Medical Coll. of Algiers and Paris; joined Public Health Service 1949, Dir. several hospitals, then Insp. of Public Health; Minister of Health 1958-62, of Health and Educ. 1961, of Educ., Youth and Sport 1961-65, of Foreign Affairs 1970-71; Mayor of Marrakesh and Pres. Provincial Council; Amb. to U.A.R. 1965-66, to Italy and Greece 1967-68, to Algeria 1969-70, to Spain 1971-72, to France and UNESCO 1972-, to the Vatican 1976-; Commdr. de l'Ordre nationale du Trone (Morocco), Commdr. de l'Ordre nationale du Mérite and other orders and decorations. *Address:* Embassy of Morocco, rue le Tasse 3, Paris 16e, France.

BEN-AHARON, Yitzhak; Israeli administrator; b. 1906, Bukovina, Austria; ed. Berlin High School for Political Science and Econs; went to Palestine 1928; founder of Kibbutz Givat Hayim; Sec. Tel-Aviv Labour Council 1938-39; Lieut. British Army, Second World War; prisoner-of-war 1941-45; mem. Knesset 1949-62; Minister of Transport 1959-62; mem. Knesset 1969-; Sec.-Gen. Histradut 1969-73. *Publications:* Listen Gentile, Michtavim Leuni, Bepheta Temura. *Address:* Kibbutz Givat Hayim (Meyuhad), Doar Hedera, Israel.

BEN BELLA, Mohammed; Algerian politician; b. 1916. Warrant Officer in Moroccan regiment during Second World War (decorated); Chief O.A.S. rebel military group in Algeria 1947; imprisoned 1949-52 (escaped); directed Algerian national movement from exile in Libya 1952-56; arrested Oct. 1956; held in France 1959-62: Vice-Premier, Algerian Nationalist Provisional Govt., Tunis 1962, Leader, Algerian Political Bureau, Algeria 1962, Premier of Algeria Sept. 1962-65. Pres. of Algeria Sept. 1963-65; detained 1965-79; Lenin Peace Prize 1964. *Address:* Algiers, Algeria.

BEN HAIM, Paul; Israeli composer; b. 5 July 1897, Munich, Germany; s. of Dr. Heinrich Frankenburger and Anna Schulmann; m. Helena Acham 1934; one s.; ed. State Acad. of Music and Univ. of Munich; active ■ conductor, composer and pianist in Germany until 1933; settled in Tel-Aviv permanently 1933; composer and teacher since 1933; Hon. Pres. League of Composers in Israel; Israel State Prize 1957; Cross of Merit, First Class (Fed. Repub. of Germany) 1968. *Compositions:* 5 Pieces for Piano 1948, Sonatina for Piano 1949, Sonata for Violin Solo 1951, Melody and Variations 1953, Sonata for Piano 1954, Three Songs without Words 1954, Concerto for Strings 1957, The Sweet Psalmist of Israel 1959, Concerto for Violin and Orchestra 1960, Capriccio for Piano and Orchestra 1961, Concerto for Cello and Orchestra 1963, two symphonies and many other works. *Address:* 11 Aharonovitz Street, Tel-Aviv, Israel.

BEN-NATAN, Asher; Israeli diplomatist; b. 15 Feb. 1921, Vienna; m. Erika Frudt 1940; one s. one d.; ed. Z. P. Hayut Hebrew Coll., Vienna and Institut des Hautes Etudes Internationales, Geneva. Co-founder and mem. Kibbutz Mederot-Zeraim 1938-44, latterly Sec. and Treas.; Political Dept., Jewish Agency 1944-45; on mission to Europe to organize rescue of Jews and illegal immigration to Palestine: attached to office of Head of Jewish Agency 1947-48; Ministry of Foreign Affairs 1948-51; studies in Geneva 1951-53; Govt. Rep. on Board of Red Sea Inkodeh Co. 1953-56, Gen. Man. 1955-56; Rep. of Ministry of Defence in Europe 1956-58; Dir.-Gen.

Ministry of Defence 1959-65; Amb. to Federal Republic of Germany 1965-70, to France 1970-75; Political Adviser to Minister of Defence 1975-78; Officier Légion d'honneur; Comm. de l'Ordre national (Ivory Coast); Comm. de l'Ordre de l'Etoile equatoriale (Gabon). *Address:* 89 University Street, Tel-Aviv, Israel. *Telephone:* 924-39-54 and 924-29-17.

BÉNARD, André Pierre Jacques; French business executive; b. 19 Aug. 1922, Draveil, Essone; m. Jacqueline Preiss 1946; one s.; ed. Lycée Janson de Sailly, Lycée Georges Clemenceau, Nantes, Lycée Thiers, Marseilles, École Polytechnique, Paris; joined Royal Dutch/Shell Group 1946; with Société Anonyme des Pétroles Jupiter 1946-49; Shell Petroleum Co. Ltd., London 1949-50; Head of Bitumen services, Société des Pétroles Shell Berre 1950-58, Head Nat. Activities Dept. 1958-59; Asst. Dir.-Gen. Société pour l'Utilisation Rationnelle des Gaz 1960-61, Pres. Dir.-Gen. 1962-64; Marketing Man. Shell Française 1964-67, Pres. Man. Dir. 1967-70; Regional Co-ordinator Europe 1970; Dir. Shell Petroleum N.V. 1970; Dir. The Shell Petroleum Co. Ltd. 1970; Man. Dir. Royal Dutch Petroleum Co. 1971; Médaille des Evadés; Médaille de la Résistance; Chevalier de l'Ordre national du Mérite, Chevalier Légion d'honneur, Commdr., Order of Orange Nassau. *Address:* Royal Dutch Petroleum Company, Carel van Bylandtlaan 30, The Hague, Netherlands. *Telephone:* 70-776655.

BÉNARD, Jean Pierre, L. és L.; French diplomatist; b. 29 Feb. 1908; s. of Georges Bénard and Reine Say; m. Yvonne Mamet 1928; ed. Lycée Janson de Sailly and Univ. de Paris à la Sorbonne. Journalist, Agence Havas, Washington 1934-36, Chief, News Service, Middle East and Cairo 1936-39; Diplomatic Service 1945-, Counsellor, U.S.A. 1945-54; Dep. Dir. NATO Information Div. 1955-57; Minister, Tunisia 1957-60; Ambassador, Fed. Republic of Cameroon 1960-65, Ethiopia 1965-71; Dir. Cabinet of the Sec. of State for Foreign Affairs 1971-72; Pres. GERDAT (Study and Research Group for Devt. of Tropical Agronomy); Officier, Légion d'honneur. *Address:* 42 rue Schaeffer, Paris 16e, France.

BENAUD, Richard (Richie), O.B.E.; Australian cricketer; b. 6 Oct. 1930; s. of Louis Richard and Irene Benaud; m. Daphne Elizabeth Surfleet 1967; two s. by previous marriage; ed. Parramatta High School; right-arm off-spin bowler and right-hand batsman; Captain, Australian Cricket Team, tours to England 1953, 1956, 1961; represented Australia in 63 Test Matches, 28 ■■ Captain; BBC TV Commentator 1960-. *Publications:* Way of Cricket 1960, Tale of Two Tests 1962, Spin Me ■ Spinner 1963, The New Champions 1965, Willow Patterns 1972. *Leisure interest:* golf. *Address:* 19 Tara, 178 Beach Street, Coogee, New South Wales 2034, Australia. *Telephone:* Sydney 665-6464.

BENAWA, Abdul Raouf; Afghan writer and administrator; b. 1913; ed. Ganj Public School, Kandahar. Mem. Language Dept. Afghan Acad. 1939; mem. Words Dept. Afghan Acad. and Asst. Information Dept. 1940; Dir. Publication Dept. Afghan Acad. 1941; Gen. Dir. Pushtu Tolana; Sec. Afghan Acad. and Dir. Kabul magazine; proprietor of weekly magazine Hewad; mem. History Dept. 1950, Dir. Internal Publ. Dept. 1951, Gen. Dir. 1952; Press Attaché India 1953-56; Pres. Radio Kabul 1956-63; Press and Cultural Counsellor, Cairo 1963-. *Publications:* Women in Afghanistan, Mir Wiess Neeka, Literary Sciences, Pushtu Songs, De Ghanamo Wazhai, Pushtoonistan, A Survey of Pushtoonistan, Rahman Baba, Pir mohammad-Kakar, Khosh-hal Khan se Wai, Pushtoo Killi, Vol. 4, Kazim Khan-e-Shaida; translations: Mosa-fir Iqbal, Geetan-Jali Tagoor, Da Darmistatar Pushtoo Seerane, Leaders of Pashtoonistan, History of Hootaki, Preshana afkar (poem), Da zra khwala, Pashto writers today (2 vols.), Pashto reader for schools, Pachakhan (A leader of Pashtoni), Landei (public poems); plays: I-Zoor gonahgar (Old criminal), Ishtebah (confusion), Kari bar asal, Aashyanae aqab, Zarang Chaoki der khater, Hakoomat baidar. *Address:* Afghan Embassy, Cairo, Egypt; and Ministry of Information and Culture, Kabul, Afghanistan.

BENDA, Ernst; German lawyer and politician; b. 15 Jan. 1925, Berlin; m. Waltraut Vorbau 1956; one s. one d.; ed. Kant-Gymnasium, Berlin-Spandau, Humboldt Univ., Freie Univ. Berlin, Univ. of Wisconsin; war service; prisoner-of-war; Humboldt Univ. 1946-48; Freie Univ., Berlin 1948-51; Univ. of Wisconsin 1949-55; District appointment, Spandau 1951-54; mem. Berlin House of Reps. 1955-57, Bundestag 1957-71; in practice ■■ lawyer 1956-71; Chair. Berlin Christian Democratic Union Youth Dept. 1952-54; mem. Fed. Govt. 1966; Under-Sec. in Interior Ministry; Minister of the Interior 1968-69; Pres. Fed. Constitutional Court 1971-; Hon. Prof., Law Faculty, Trier Univ. 1977; Hon. D.Jur. (Würzburg Univ.). *Publications:* Notstandsverfassung und Arbeitskampf 1963, Rechtsstaat und Verjährung 1965, Industrielle Herrschaft und sozialer Staat 1966, Die Notstandsverfassung 1966, Der Rechtsstaat in der Krise 1971. *Leisure interests:* fishing, garden, sailing. *Address:* 75 Karlsruhe 1, Schlossbezirk 3, Federal Republic of Germany.

BENDER, Arnold Eric, PH.D.; British nutrition scientist; b. 24 July 1918, Liverpool; m.; two s.; ed. Liverpool Institute, Univs. of Liverpool and Sheffield. Research Chemist, British Drug Houses 1940-45; Nuffield Research Fellow, Univ. of Sheffield 1945-47, Asst. Lecturer 1947-49; Head of Nutrition Team, Crookes Laboratories 1949-54; Head of Research, Bovril Ltd. 1954-61; Head of Research and Devt., Farley's Infant Foods Ltd. 1961-64; Senior Lecturer (later Reader) Queen Elizabeth Coll., Univ. of London 1965-71, Prof. 1971-. *Publications:* Dictionary of Nutrition and Food Technology 1960, Nutrition and Dietetic Foods 1967, Value of Food 1970, Facts of Food 1976, Food Processing and Nutrition 1978; research papers and review articles in scientific journals. *Leisure interests:* gardening, filming, lecturing. *Address:* 59 Perryn Road, London, W3 7LS, England.

BENDER, Myron L(ee), B.S., PH.D.; American chemist and educator; b. 20 May 1924, St. Louis; s. of Averam Burton Bender and Fannie Leventhal Bender; m. Muriel Blossom Schulman 1952; three s.; ed. Purdue Univ. Chemist, Eastman Kodak Co. 1944-45; Post-doctoral student, Harvard 1948-49; AEC Fellow, Univ. of Chicago 1949-50; Instructor, Univ. of Connecticut 1950-51; Instructor to Assoc. Prof. Illinois Inst. of Technology 1951-60; mem. Faculty Northwestern Univ. 1960-, Prof. of Chemistry 1962-; Prof. of Biochemistry 1974-; Consultant to govt. and industry 1959-; Sloan Fellow 1959-63; mem. Nat. Acad. of Sciences, American Chem. Soc. and other Socs.; Fellow, Merton Coll., Oxford Univ.; Midwest Award of the ACS; D.Sc., Purdue Univ. *Publications:* 191 papers, 15 monographs, and 5 books (one Russian, two English, one Japanese, one Spanish). *Leisure interests:* gardening, sculpture. *Address:* Northwestern University, Evanston, Ill. 60201 (Office); 2514 Sheridan Road, Evanston, Ill. 60201, U.S.A. (Home). *Telephone:* 492-7675 (Office); 869-6307 (Home).

BENDETSEN, Karl Robin, A.B., J.S.D., D.S.M.; American lawyer and business executive; b. 11 Oct. 1907, Aberdeen, Wash.; s. of Albert M. and Ann (Bentson) Bendetsen; m. 1st Billie McIntosh 1938, 2nd Maxine Bosworth 1947, 3rd Gladys Ponton de Arce 1972; one s. one d.; ed. Leland Stanford Univ. Law practice 1932-40, 1947-48; U.S. Army 1940-45; Management Counsel 1946-47; Special Asst. to Sec. of Defense 1948; Asst. and Under-Sec. of Army 1948-52; Chair. Board Panama Canal Co. 1950-54; Dir.-Gen. U.S. Railroads 1950-52; Champion Paper and Fiber Co. (later Champion Papers) 1952; Pres., Chair., Chief Exec. Officer Champion Papers (later Champion Int.) 1960-72, Chair. Exec. Cttee. 1972-75; Dir. Champion Int., Westinghouse, N.Y. Stock Exchange; Special Rep. with rank of Amb. to Fed. Rep. of Germany and Philippines 1956; Chair. Cttee. on Non-Military Instruction, Office of Sec. of Defense 1962; Vice-Chair. Defense Manpower Commission 1974-76; Officier, Légion d'honneur, Croix de guerre, D.S.M., Legion of Merit, Bronze Star Medal, Medal of Freedom, Hon. O.B.E. *Leisure interest:* Episcopal Church activities. *Address:* 2918 Garfield Terrace, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* (202) 462-4091.

BENEDETTI, Mario; Uruguayan writer; b. 14 Sept. 1920, Paso de los Toros, Tacuarembo; s. of Brenno Benedetti and Matilde Farrugia; m. Luz López; ed. Colegio Alemán. Journalist on Marcha (weekly) and Literary, Film and Theatre Critic on El Diario, Tribuna Popular and La Mañana; visited Europe 1957, 1966-67. *Publications:* Fiction: Esta mañana 1949, El último viaje y otros cuentos 1951, Quién de nosotros 1953, Montevideanos 1959, La Tregua 1963, Gracias por el Fuego 1965, La muerte y otras sorpresas 1968; Plays: Ustedes por ejemplo 1953, El Reportaje 1958, Ida y Vuelta 1958; Poetry: La víspera indeleble 1945, Sólo mientras tanto 1950, Poemas de la Oficina 1956, Poemas del Hoyporhoy 1965, Inventario 1965, Contra los puentes levadizos 1966, A ras de sueño 1967; Essays: Peripecia y novela 1948, Marcel Proust y otros ensayos 1951, Literatura uruguaya siglo XX 1963, Letras del continente mestizo 1967, Sobre artes y oficios 1968.

BENEDICT, Manson, B.CHEM., M.S., PH.D.; American engineer; b. 9 Oct. 1907, Lake Linden, Mich.; s. of C. Harry Benedict and Lena Manson Benedict; m. Marjorie Oliver Allen 1935; two d.; ed. Cornell Univ. and Mass Inst. of Technology. National Research Fellow, Harvard Univ. 1935-36, Research Assoc. in Geophysics 1936-37; Research Chemist, M. W. Kellogg Co. 1938-43; in charge of Process Design Uranium-235 Gaseous Diffusion Plant, Kellex Corpn. 1943-46; Dir. Process Devt., Hydrocarbon Research Inc. 1946-51; Prof. of Nuclear Eng., Mass. Inst. of Technology 1951-73, Head of Nuclear Eng. Dept. 1958-71, Inst. Prof. 1969-73, Inst. Prof. Emer. 1973-; Scientific Adviser, Nat. Research Corpn. 1951-57, Dir. 1960-66; mem. Gen. Advisory Cttee. U.S. Atomic Energy Comm. 1958-68,

Chair. 1962-64; Dir. Atomic Industrial Forum 1967-72; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng.; Perkin Medal of Soc. of Chemical Industry, American Section; Nat. Medal of Science; American Inst. of Chemical Engineers (three Awards), U.S. Atomic Energy Comm. Citation, Industrial and Eng. Chemistry Award of American Chemical Soc.; Arthur H. Compton Award of American Nuclear Soc.; Enrico Fermi Award, U.S. Atomic Energy Comm. *Publications:* Engineering Development in the Gaseous Diffusion Process (Co-Editor), Nuclear Chemical Engineering (Co-Author) 1957. *Leisure interest:* golf. *Address:* Room 24109, Massachusetts Institute of Technology, Cambridge, Mass. (Office); 25 Byron Road, Weston, Mass., U.S.A. (Home).

BENEDICTO, Roberto S., A.A., LL.M.; Philippine lawyer and banker; b. 17 April 1917; ed. Univ. of the Philippines, George Washington Univ. Major in the Philippines Armed Forces 1941-45; Acting Provincial Fiscal, Negros Occidental 1945; Prof. Commercial Law, Far Eastern Univ. 1948-55; Gov. Devt. Bank of the Philippines 1957-59; Exec. Vice-Pres. Treas. Philippines Commercial and Industrial Bank 1962-65; Pres., Vice-Chair. Philippine Nat. Bank 1966-70; Amb. to Japan 1972-78; mem. Monetary Board, Central Bank of the Philippines; Alt. Gov. IMF, IBRD; Legion of Merit, Rep. Community Chest of Greater Manila. *Address:* 1420 San Marcelino, Malate, Manila, Philippines (Home).

BENEDICTOS (Vassilios Papadopoulos); Greek Orthodox ecclesiastic; b. 1892; ed. Greek Orthodox Hieratic School, Jerusalem, and Athens Univ. Clerk, Patriarchal Offices, Jerusalem 1914; ordained deacon 1914; accompanied the then Patriarch to Damascus during World War I; studies in Law and Theological Schools, Athens Univ. 1921-25; Rep. of Patriarch of Jerusalem at World Christian Conf. of Faith and Order, Geneva 1927; Exarch of the Holy Sepulchre in Athens 1929-46; ordained priest and Archimandrite 1946, mem. Holy Synod, Jerusalem Patriarchate 1946-; Legal Adviser and Chair. Pending Property Cttee. 1947; Chair. Financial Cttee. 1950; rep. of Patriarch, Internationalisation of Jerusalem Trusteeship Conf. 1950; Archbishop of Tiberias 1951; Greek Orthodox Patriarch of Jerusalem 1957-; Grand Cross of King George of Greece, Grand Cross and Cordon of Patriarchate of Antioch, Jordanian and Lebanese orders. *Address:* Greek Orthodox Patriarchate, P.O. Box 4074, Jerusalem, Israel.

BENEDIKTSSON, Einar, M.A.; Icelandic diplomatist; b. 30 April 1931, Reykjavík; s. of Stefan M. Benediktsson and Sigridur Oddsdóttir; m. Elsa Petursdóttir 1956; three s. two d.; ed. Colgate Univ., N.Y., Fletcher School of Law and Diplomacy, Mass., London School of Econs., Inst. des Etudes Européennes, Turin, Italy. With Org. for European Econ. Co-operation, Paris 1956-60; Head of Section, Ministries of Econ. Affairs and Commerce 1960-64, Ministry of Foreign Affairs 1964, 1968-70; Counsellor, Icelandic Embassy, Paris 1964-68; Perm. Rep. to Int. Orgs., Geneva 1970-76; Chair. EFTA Council 1975; Amb. to France 1976-; Perm. Rep. to OECD and UNESCO; Commdr. Order of Falcon (Iceland), Ordre nationale du Mérite (France). *Address:* Ambassade d'Islande, 124 blvd. Haussmann, 75008 Paris; 43 avenue Foch, 75116 Paris, France (Home). *Telephone:* 522-83-78 (Office); 553-51-12 (Home).

BENEDIKTSSON, Jakob, M.A., PH.D., D.LITT.; Icelandic philologist; b. 20 July 1907, Fjall; s. of Benedikt Sigurdsson and Sigurlaug Sigurdardóttir; m. Grethe Kyhl 1936; ed. Univ. of Copenhagen. Assistant Editor Old-Icelandic Dictionary (Copenhagen) 1939-46; Librarian Univ. of Copenhagen 1943-46; Editor-in-Chief Icelandic Dictionary Univ. of Iceland 1948-77; mem. Societas Scientiarum Islandica, Royal Danish Acad. of Sciences and Letters, Norwegian Acad. of Sciences and Letters, Swedish Acad. *Publications:* Gísli Magnússon 1939, Chronologie de deux listes des prêtres kamiréens 1940, Jardabók Arna Magnussonar og Páls Vídalíns (vols. VII, X, XI) 1940-43, Skardsbók (Corpus codicum Islandicorum XVI) 1943, Two Treatises on Iceland 1943, Veraldar saga 1944, Ferdabók Tómasar Sæmundssonar 1947, Ole Worm's Correspondence with Icelanders 1948, G. Andrésson, Deilurit 1948, Persius rimur 1949, Arngrimi Jonae Opera I-IV 1950-57, Arngrímur Jónsson and his Works 1957, Skardsárbók 1958, Sturlunga Saga (Early Icelandic Manuscript I) 1958, Islenzk-dönsk ordabók, Vidbaetir 1963, Islendingabók, Landnámabók 1968, Landnámabók 1974. *Address:* 2 Stigahlíd, Reykjavík, Iceland. *Telephone:* 30987

BENELLI, H.E. Cardinal Giovanni, D.D., D.C.L.; Italian ecclesiastic; b. 4 May 1921, Poggiole di Vernio, Florence; ed. Diocesan Seminary, Pistoia, French Seminary, Rome, Pontifical Gregorian Univ., Rome, Pontifical Ecclesiastical Acad., Rome; ordained Roman Catholic Priest 1945; Private Sec. to the Substitute of the Secretariat of State (Mgr. Giovanni Battista Montini, later Pope Paul VI) 1946; served Apostolic Nunciature in Dublin, Ireland 1950, Paris, France 1953, Rio de Janeiro, Brazil 1960, Madrid, Spain 1962; Perm. Observer of Holy See at UNESCO 1965-66; participated in World Conf. for the Elimination of Illiteracy, Conf. for the Harmonization of Programmes of Basic Educ. in Cen. and South America 1965-66; Titular Archbishop of Tusaro and Apostolic Pro-Nuncio in Senegal 1966-67; Apostolic Del. to French-speaking West African states 1966-67; Substitute of Secretariat of State 1967-77; Archbishop of Florence, created Cardinal June 1977-. *Address:* Arcivescovado, Piazza S. Giovanni 3, 50129 Florence, Italy. *Telephone:* (055) 298813.

BENGELLOUN, Ahmed Majid, L. EN D.; Moroccan lawyer and politician; b. 27 Dec. 1927, Fez; ed. Inst. of Political Science, Paris. Public Prosecutor, Marrakesh 1956, later Public Prosecutor of Mil. Tribunal, Meknés, Gen. Counsel, Supreme Court; Public Prosecutor Court of Appeal 1960-64; Minister of Information 1965-67, 1972-74; Sec.-Gen. Ministry of Justice 1967; Minister at the Royal Cabinet 1967-71, of Civil Service 1971-72, of Information 1972-74; Prosecutor-Gen. 1974; fmr. Prof. Inst. des Hautes Etudes Juridiques; Prof. Law Faculty, Univ. of Rabat, Ecole Marocaine d'Admin.; mem. Comm. for the Drafting of the Penal Code and Penal Procedure Code; has attended numerous int. judicial confs.; Order of the Throne, and several foreign decorations. *Address:* c/o Ministère de l'Information, Rabat, Morocco.

BENGSCH, H.E. Cardinal Alfred, DR.THEOL.; German ecclesiastic; b. 10 Sept. 1921; ed. grammar school, Berlin, Philosophical-Theological Coll., Fulda, Ludwig Maximilians Universität, Munich; ordained 1950; Chaplain in Berlin; further study and Asst. at Theological Coll., Erfurt 1954-56; Lecturer in Dogma and Rhetoric at Theological and Sacerdotal Coll., Neuzelle 1956-59; Titular Bishop of Tubia and Asst. Bishop of Berlin 1959; Bishop of Berlin and Pres. of Berlin Bishops' Conference 1961; Archbishop 1962-; cr. Cardinal 1967; mem. Sacred Congregation for Religious Orders and Secular Institutes; mem. Sacred Congregation for Sacraments and Divine Service; mem. Sacred Congregation for Catholic Educ.; mem. Secr. for Promoting Christian Unity, Rome; mem. Pontifical Comm. for Revision of Canon Law. *Publications:* Heilsgeschichte und Heilswissen 1957, Unterwegs zum Herrn 1959, Heiligung, Umkehr, Vollendung 1959, Berufung und Bewährung 1960, Der Glaube an die Auferstehung 1962, Den Glauben leben Vol. I 1965, Konzil für Dich 1966, In Erwartung der Wiederkunft 1966, Den Glauben leben Vol. II 1967, Glaube und Kritik 1968, Würde des Dienstes 1969, Kirche ohne Kreuz 1969, Weder Gegenwärtiges noch Zukünftiges ... 1974, Wo steht die Predigt heute? 1974, Zehn Gebote 1975, Ave Maria 1976. *Address:* 108 Berlin Französische Strasse 34 (East Berlin); 1 Berlin 19, Wundtstrasse 48/50 (West Berlin), Germany. *Telephone:* 200 02 81 (East Berlin); 32 10 01 (West Berlin).

BENGTSON, Torsten Stanley; Swedish politician; b. 14 Jan. 1910, Halmstad; s. of Otto Alexander and Alma Desideria Bengtson; m. Barbro Elisabeth Fritjofsson; two s. one d.; ed. privately; member of Riksdag (Parl.) 1950-, First Deputy Speaker 1970-; Pres. Riksbanken (Central Bank of Sweden) 1976-; Del. to UN Gen. Assembly for 22 years; Deputy Chair. Int. Council of Parliamentarians on Alcohol and Drug Policy 1975-; Commdr. Order of North Star, First Class. *Leisure interests:* music, sports. *Address:* Skänkebergsgatan 8, 552 59 Jönköping, Sweden. *Telephone:* 036/12-48-44.

BENGTSSON, Ingemund; Swedish politician; b. 1919, Veddinge, Halland; ed. County Coll; formerly Man. Halland County Labour Exchange; mem. of Parl. 1951-; consultant to Ministry for Health and Welfare 1954-65; mem. of Board, Social Democrat Party, fmrly. Vice-Pres. Social Democrat Party Member's Council; mem. Swedish del. to UN Gen. Assembly; Minister of Agriculture 1969-73, of Labour 1973-76. *Address:* c/o Ministry of Labour, Stockholm, Sweden.

BENGZON, Cesar, B.A., LL.B.; Philippine judge; b. 29 May 1896; ed. Ateneo de Manila and Univ. of the Philippines. Law Clerk, Bureau of Justice 1919, Special Attorney, then Asst. Attorney 1920, Solicitor-Gen. 1931; Dean and Prof. of Law, Univ. of Manila 1928-32; Under-Sec. of Justice and Chair. Board of Pardons 1933; Assoc. Justice, Court of Appeals 1936; Assoc. Justice, Supreme Court 1945; Prof. of Law, Univ. of Santo Tomas and Philippine Law School 1948-54; Chair. Senate Electoral Tribunal 1950-57; Chief Justice Supreme Court 1961; Judge, Int. Court of Justice, The Hague 1966-76; mem. Philippine Acad. of Sciences and Humanities 1964-; Pres. Philippine Section, Int. Comm. of Jurists 1964, 1966; mem. Nat. Research Council 1964-, American Judicature Soc. 1965, Philippine Soc. of Int. Law 1965-; LL.D. h.c. Univ. of Manila 1957, Ateneo de Manila Univ. 1964, Univ. of the Philippines 1964. *Address:* c/o National Research Council of the Philippines, University of the Philippines, Diliman, Rizal, The Philippines.

BENHIMA, Ahmed Taiba (brother of Dr. Mohamed Benhima, *q.v.*); Moroccan diplomatist; b. 13 Nov. 1927; s. of Tayeb Benhima and Ben Hida; ed. Univs. of Nancy and Paris. Chargé d'affaires, Paris 1956-57; Amb. to Italy 1957-59; Sec.-Gen. of Ministry of Foreign Affairs 1959-61; Perm. Rep. to UN 1961-64; Minister of Foreign Affairs 1964-66, 1972-74; Dir. Cabinet of King 1966-67; Perm. Rep. to UN 1967-71; Minister of State for Information 1974-77. *Address:* c/o Ministry of Information, Rabat, Morocco.

BENHIMA, Mohamed, M.D. (brother of Ahmed Benhima, *q.v.*); Moroccan physician and politician; b. 25 June 1924, Safi; s. of Tayeb Benhima and Ben Hida; m.; four c.; ed. Faculté de Médecine de Nancy, France. Chief Medical Officer, Had Court District 1954-56; Chief of Central Service for Urban and Rural Hygiene 1956-57; Head of Personal Office of Minister of Public Health 1957-60; Sec.-Gen. Ministry of Public Health Jan.-June 1960; Gov. of Provinces of Agadir and Tarfaya 1960-61; Minister of Public Works 1961-62, 1963-65, 1967-72, of Commerce, Industry, Mines, Handicrafts and Merchant Marine 1962-63, of Nat. Educ. 1965-67; Prime Minister 1967-69; Minister of State for Agriculture and Agrarian Reform 1969-70; Minister of Health 1969-72, of Internal Affairs 1972-73; Minister of State for Co-operation and Training 1973-77, for the Interior 1977-; Grand Cordon de Mérite, Côte d'Ivoire; decorations from Govts. of Belgium, Morocco, Sweden, Ethiopia, Tunisia, Liberia, France, Italy, Niger, Libya, Cameroon and United Arab Republic. *Address:* Km. 5.5, Route des Zaërs, Rabat, Morocco.

BENITES VINUEZA, Leopoldo, DR. RER. POL.; Ecuadorean diplomatist; b. 17 Oct. 1905: ed. Univ. de Guayaquil. Minister to Uruguay 1947-52; Alt. Rep. of Ecuador to UN 1953-54; Amb. to Bolivia 1954-56, to Argentina 1956, to Uruguay 1956-60; Perm. Rep. to UN 1960-75; Pres. 28th UN Gen. Assembly 1973. *Address:* c/o Ministerio de Asuntos Exteriores, Quito, Ecuador.

BENÍTEZ, Jaime, LL.M., LL.D.; Puerto Rican educator and government official; b. 29 Oct. 1908, Vieques; s. of Don Luis Benítez and Doña Cándida Rexach Benítez; m. Luz A. Martínez 1941; one s. two d.; ed. Georgetown Univ. and Univ. of Chicago. Instructor in Political Science, Univ. of Puerto Rico 1931-41, Assoc. Prof. 1941-42, Chancellor of Univ. 1942-66, Pres. 1966-71; Res. Commr. from Puerto Rico in the U.S. 1972-; mem. House of Representatives Cttee. on Education and Labour 1972-; Head Hearings Officer, Nat. War Labor Board, Washington; Del. to UNESCO Conf., Paris 1951; mem. U.S. Nat. Comm. UNESCO 1951-55; Pres. Cttee. of Bill of Rights, Puerto Rico Constitutional Convention 1951; mem. Housing Cttee., U.S. Federal Housing Agency 1957; U.S. Del., Conf. of Univs., Utrecht, Holland 1948; Fellow American Acad. of Arts and Sciences, American Acad. of Political and Social Sciences, Federal Bar Assn., Nat. Assn. of State Univs. (Pres. 1958), Colegio de Abogados de Puerto Rico; Hon. LL.D. (Inter-American, San German, New York, Fairleigh Dickinson Univs. and Catholic Univ. of Puerto Rico). *Publications:* The Concept of the Family in Roman and Common Law Jurisprudence 1931, Political and Philosophical Theories of José Ortega y Gasset 1939, Reflexiones Sobre el Presente 1950, La Iniciación Universitaria y las Ciencias Sociales 1952, The United States, Cuba, and Latin America 1961, Junto a la Torre 1963, Discurso en Salamanca 1965, Sobre el Futuro Cultural y Político de Puerto Rico 1965. *Leisure interest:* flying kites. *Address:* House of Representatives, Washington, D.C., U.S.A. *Telephone:* 225-2615 (Office); 7240-171 (Home).

BENIUC, Milhai, D.PHIL.; Romanian writer and scientist; b. 20 Nov. 1907, Sebis-Arad; s. of Atanasie and Veselina Beniuc; m. Emma-Sylvia Friedmann 1945; ed. Sebiş, Cluj Univ. and in Germany. Professor of Psychology, Cluj and Bucharest Univ.; mem. Grand Nat. Assembly 1957-65; Chair. Writers' Union of the Romanian People's Republic 1958-65; mem. Romanian Acad. 1955–; State Prizes 1951 and 1954; Hero of Socialist Labour 1971. *Publications:* Verse: Songs of Desolation 1938, New Songs 1940, Poems 1943, The Lost City 1943, A Man is Waiting for the Sunrise 1946, Banners 1952, The Apple Tree near the Road 1954, Durability 1955, The Heart of Old Vesuvius, Journeys Through Constellations 1957, An Hour before Sunset 1959, Songs of the Heart 1961, The Matter and the Dreams 1961, Colours of the Autumn 1962, Strings of Time 1963, Headlights 1964, Rock Flowers 1965, Day by Day 1965, Other Ways 1967 (many translated); Non-fiction: Learning and Intelligence in Animals 1934, The Roundabout Path of the Fighting Fish 1938, Animal Psychology 1970; Fiction: Personal Hate, On the Edge of the Knife 1959, An Ordinary Man has Disappeared 1964; Plays: In the Cucu Valley 1959, The Return 1960; Criticism: Our Poetry 1956, Mason Manole 1957. *Leisure interests:* philosophy, linguistics, biology, poetry. *Address:* Sos. Kiseleff 10, Bucharest, Romania. *Telephone:* 50-74-18.

BENJAMIN, Curtis G.; American publisher; b. 13 July 1901, Province, Ky.; m. Norma Olson 1931; one s. one d.; ed. Univ. of Kentucky, Univ. of Chicago and Univ. of Arizona. McGraw-Hill Book Co. 1926-, Manager, College Dept. 1932-42, Vice-Pres. 1942-46, Pres. 1946-60, Chair. Board of Dirs. 1961-65, Management Board 1965-66; Dir. McGraw-Hill Inc. 1947-72, McGraw-Hill Co. of Canada Ltd. 1947-72, McGraw-Hill Publishing Co. Ltd. (London) 1947-72; Exec. Consultant McGraw-Hill Inc. 1967-; Pres. American Book Publishers Council 1958-59; Chair. Govt. Advisory Cttee. on Int. Book Programs 1962-64, Del. to U.S.S.R. for State Dept. 1962; mem. State Dept. Advisory Panel on Int. Copyright 1970-; mem. Science Information Council, Nat. Science Foundation 1959-60, 1964-67, Advisory Council on College Library Resources 1966-68, Board of Trustees, Norwalk Hospital, Conn. 1970-; Dir. Save the Children Fed. and Community Development Foundation 1968-73; Hon. LL.D. (Kentucky), Hon. Litt. D. (Arizona). *Address:* McGraw-Hill Inc., 1221 Avenue of the Americas, New York, N.Y. 10020 (Office); Kellogg Hill Road, Weston, Conn. 06880, U.S.A. (Home).

BENJAMIN, Hilde; German lawyer and politician; b. (as Hilde Lange) 5 Feb. 1902; m. Georg Benjamin 1926; studied law; practising lawyer until 1933; joined Communist Party 1927; commercial employment during Nazi regime; State lawyer in Berlin 1945; joined Sozialistische Einheitspartei Deutschlands (S.E.D.) 1946; Vice-Pres. Supreme Court 1949-53; Minister of Justice 1953-67; Prof. of History of Admin. of Justice, Deutsche Akad. für Staats- und Rechtswissenschaft 1967-; mem. Cen. Cttee. S.E.D. 1954; mem. Volkskammer 1949-67; Clara-Zetkin Medal, two Distinguished Service Orders, Order of the Banner of Labour, Medal for Fighters against Fascism, Order of Merit (Gold); Dr. h.c. *Address:* Deutsche Akademie für Staats-und Rechtswissenschaft, Potsdam-Babelsberg, German Democratic Republic.

BENJENK, Munir P.; Turkish international finance official; b. 12 June 1924, Istanbul; s. of Pertev Benjenk and Stella Habib; ed. Robert Coll., Istanbul and London School of Econs.; with B.B.C. 1949-51; with Org. for Econ. Co-operation and Devt. (OECD) Paris 1953-63, Dir. Technical Assistance Programme, OECD; joined IBRD 1963, Chief of North Africa Div. 1965-67, Deputy Dir. Middle East and North Africa Dept. 1967-68, Europe, Middle East and North Africa Dept. 1968-70, Dir. 1970-72, Vice-Pres. for Europe, Middle East and North Africa 1972-75, 1976-; Visiting Fellow, St. Antony's Coll., Oxford Univ. 1975-76; Order of Merit of the Italian Repub. 1960; Order of Cedars of Lebanon. *Leisure interests:* classical music, history. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C. 20433, U.S.A.

BENKE, Mrs. Valéria; Hungarian politician; b. 26 June 1920, Gyönk; ed. teacher training; joined Communist Party 1941; Trade Union Sec., Szeged 1944; Teacher, Party Acad. 1945-46; performed party work, Budapest 1946-48; Budapest Sec., Women's Fed. 1948-50; Sec. Nat. Peace Council 1950-54; Pres. Hungarian Radio and Television 1954-58; Minister of Public Educ. 1958-61; mem. of Parl. 1949-71; mem. Cen. Cttee. of Hungarian Socialist Workers' Party 1957-, Presidential Council 1967-71; mem. Political Cttee. Hungarian Socialist Workers' Party 1970-; Editor-in-Chief, Társadalmi Szemle. *Leisure interest:* reading. *Address:* Hungarian Socialist Workers' Party, Budapest V, Széchenyi rakpart 19, Hungary. *Telephone:* 111-400.

BENKEI, András; Hungarian politician; b. 11 Sept. 1923, Nyiregyháza; s. of István Benkei; m. Erzsébet Habony 1949; two d.; former mechanic; Sec. Szabolcs-Szatmár County Cttee. of Food Industry Trade Union 1949; Head, Industrial Dept., Szabolcs-Szatmár County Party Cttee. 1951-54; First Sec. Nyiregyháza Municipal Cttee., Hungarian Socialist Workers Party 1954-56; First Sec. Szabolcs-Szatmár County Party Cttee. 1956-63; Minister of Internal Affairs 1963-; mem. Central Cttee. Hungarian Socialist Workers Party; Pres. Nat. Council for Traffic Security 1973-. *Leisure interests:* literature, sport. *Address:* Ministry of Internal Affairs, József Attila-u. 2-4, H-1903 Budapest V, Hungary. *Telephone:* 313-700.

BENN, Rt. Hon. Anthony (Neil) Wedgwood, P.C., M.A., M.P.; British politician; b. 3 April 1925, London; s. of William Wedgwood Benn (1st Viscount Stansgate), P.C. and Margaret Eadie (Holmes); m. Caroline de Camp 1949; three s. one d.; ed. Westminster School and New Coll., Oxford. R.A.F. Pilot 1943-45; Oxford Univ. 1946-49; Producer, BBC 1949-50; Labour mem. Parl. for Bristol S.E. 1950-60, compelled to leave House of Commons on inheriting peerage 1960, re-elected and unseated 1961, renounced peerage and re-elected 1963; Nat. Exec. Labour Party 1959-; Chair. Fabian Soc. 1964; Postmaster-Gen. 1964-66; Minister of Technology 1966-70, of Power 1969-70; Shadow Minister of Trade and Industry 1970-74; Sec. of State for Industry and Minister of Posts and Telecom-

munications 1974-75; Sec. of State for Energy 1975-79; Vice-Chair. Labour Party 1970, Chair. 1971-72; Chair. Labour Party Home Policy Cttee. 1974-; Pres. EEC Energy Council 1977; Hon. LL.D. (Strathclyde Univ.); Hon. D.Tech. (Bradford); Hon. D.Sc. (Aston). *Publications:* The Privy Council ■■ ■ Second Chamber 1957, The Regeneration of Britain 1964, The New Politics 1970, Speeches by Tony Benn 1974. *Address:* House of Commons, Westminster, London, S.W.1, England.

BENNACERRAF, Baruj, M.D.; American pathologist; b. 29 Oct. 1920, Caracas, Venezuela; s. of Abraham and Henriette Benacerraf; m. Annette Dreyfus 1943; one d.; ed. Lycée Janson, Paris, Columbia Univ., New York and Medical Coll. of Virginia. Intern, Queens General Hosp., New York 1945-46; U.S. Army 1946-48; Research Fellow, Dept. of Microbiology, Coll. of Physicians and Surgeons, Columbia Univ., New York 1948-50; Chargé de Recherches, CNRS, Hôpital Broussais, Paris 1950-56; Asst. Prof. of Pathology, New York Univ. School of Medicine 1956-58, Assoc. Prof. of Pathology 1958-60, Prof. 1960-68; Chief, Lab. of Immunology, Nat. Inst. of Allergy and Infectious Diseases, Nat. Insts. of Health, Bethesda, Md. 1968-70; Fabyan Prof. of Comparative Pathology and Chair. Dept. of Pathology, Harvard Medical School 1970-; Vice-Pres. Int. Union of Immunological Socs.; Past Pres., mem. American Assn. of Immunologists; Past Pres. Fed. of American Socs. for Experimental Biology; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences, British Assn. for Immunology, French Soc. for Biological Chem., etc.; Scientific Adviser for Immunology, WHO; trustee and mem. Scientific Advisory Board, Trudeau Foundation; mem. Scientific Advisory Board, Mass. Gen. Hosp.; mem. Board of Govs. Weizman Inst. of Sciences; R. E. Dyer Lecture of Nat. Insts. of Health 1969, Rabbi Shai Shacknai Lectureship and Prize in Immunology and Cancer Research 1974, T. Duckett Jones Mem. Award of the Helen Hay Whitney Foundation 1976. *Publications:* Immunological Tolerance (with Katz), Immunogenetics and Immunodeficiency, The Role of Products of the Histocompatibility Gene Complex in Immune Responses (with Katz), Texbook of Immunology (with Unanue) and articles in professional journals. *Leisure interests:* music, art collecting. *Address:* Department of Pathology, Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115 (Office); 111 Perkins Street, Boston, Mass. 02130, U.S.A. (Home). *Telephone:* (617) 734-3300 (Office); (617) 522-6514 (Home).

BENNETT, Lt.-Col. Sir Charles Moihi To Arawaka, Kt., D.S.O., M.A., DIP.ED., DIP.SOC.SC.; New Zealand diplomatist; b. 1913; ed. Univ. of N.Z. and Exeter Coll., Oxford. Schoolmaster 1937; Staff mem. New Zealand Broadcasting Service 1938-39; service with New Zealand Army in U.K., Greece, Crete, North Africa, commanding Maori Battalion from Alamein to Tunis 1939-46; Staff mem. War Histories Section, Internal Affairs Dept., mem. Ngarimu Scholarship Fund Board 1947-50; Asst. Controller Maori Welfare Div., Maori Affairs Dept. 1951-57, Dir. 1957-58; mem. State Literary Advisory Cttee., New Zealand Parole Board 1951; New Zealand High Commr. to Malaya (the first Maori to lead an overseas Mission) 1959-63; Asst. Sec. Dept. of Maori Affairs, Wellington 1963-69; Vice-Pres. New Zealand Labour Party 1970-72, Pres. 1973-76; Hon. LL.D. Univ. Canterbury, N.Z. *Address:* Otimi Street, Maketu, Bay of Plenty, New Zealand.

BENNETT, Emmett Leslie, M.A., PH.D.; American classical scholar; b. 12 July 1918, Minneapolis, Minn.; s. of Emmett L. Bennett and Mary C. Buzzelle; m. Marja Adams 1942; five c.; ed. Univ. of Cincinnati. Research analyst, U.S. War Dept. 1942-45; taught in Dept. of Classics, Yale Univ. 1947-58; Fulbright Research Scholar, Athens 1953-54, Cambridge 1965; mem. Inst. for Advanced Study, Guggenheim Fellow, Visiting Lecturer in Greek, Bryn Mawr Coll. 1955-56; Dept. of Classical Languages, Univ. of Texas 1958-59; Univ. of Wisconsin Inst. for Research Humanities 1959-, Acting Dir. 1968-69, 1972-75, Dept. of Classics 1960-, Moses S. Slaughter Prof. of Classical Studies 1978-: Visiting Prof. Univ. of Colorado 1967, of Cincinnati 1972; corresp. mem. German Archaeological Inst., Archaeological Soc. of Athens; mem. Comité Int. Permanent des Etudes Mycéniennes, Archaeological Inst. of America, American Philological Assn., Linguistic Soc. of America. *Publications:* The Pylos Tablets 1951 and 1956, The Mycenae Tablets 1953 and 1958, Mycenaean Studies 1964, Editor, Nestor 1957-77, etc. *Address:* 904 Van Hise Hall, University of Wisconsin, Madison, Wis. 53706, U.S.A. *Telephone:* (608) 257-3162.

BENNETT, Frederick Onslow Alexander Godwyn, B.A.(CANTAB.), T.D.; British business executive; b. 21 Dec. 1913, Shenley; s. of Alfred Bennett and Marjorie Muir Bremner; m. Rosemary Perks 1942; one s. four d.; ed. Winchester Coll., Trinity Coll., Cambridge; joined Whitbread & Co. as pupil brewer 1935; military service, mentioned in despatches 1939-45; Man. Dir. Whitbread & Co. Ltd. 1949, Deputy Chair. 1959, Chief Exec. 1968-74, Chair. 1972-78; Master of Brewers' Co. 1963-64; Chair. Brewers' Soc. 1972-74; U.S. Bronze Star 1944. *Leisure interests:* shooting, racing. *Address:* Grove House, Selling, Faversham, Kent, ME13 9RW, England. *Telephone:* Selling 250.

BENNETT, Jack Franklin, M.A., PH.D.; American economist; b. 17 Jan. 1924, Macon, Ga.; s. of Andrew Jackson Bennett and Eloise Franklin Bennett; m. Shirley Elizabeth Goodwin 1949; three s. one d.; ed. Woodrow Wilson High School, Washington, D.C., Yale and Harvard Univs. Communications Officer, U.S. Navy 1944-46; Joint U.S./U.K. Export-Import Agency, Berlin 1946; Econ. Co-operation Admin. 1950; Special Asst. to Administrator, Technical Co-operation Admin. 1951-53; Senior Economist, Presidential Comm. on Foreign Econ. Policy 1953-54; Foreign Exchange Analyst, Standard Oil Co. (N.J.) 1955; Presidential Citizens' Cttee. on Mutual Security 1956-57: European Financial Rep., Standard Oil (N.J.) 1958-60, Asst. Treas., Exec. Asst. to Chair. 1961-64, Chief Economist, Man. Co-ordination and Planning 1965-66, Gen. Man. Supply Dept. Humble Oil 1967-69, Dir. and Vice-Pres. Esso Int. 1969-71; Deputy Under-Sec. for Monetary Affairs U.S. Treasury Dept. 1971-74, Under-Sec. March-July 1974, Under-Sec. for Monetary Affairs 1974-75; Alexander Hamilton Award 1974. *Publications:* articles in Foreign Affairs, Journal of Finance, Economia Internazionale. *Leisure interests:* swimming, tennis, inventing. *Address:* 4000 Massachusetts Avenue, N.W., Washington, D.C. 20016 (Home) and 141 Taconic Road, Greenwich, Conn. 06830, U.S.A. *Telephone:* (202) 686-0117; (203) 869-8931 (Home).

BENNETT, John Coleman, M.A., D.D., S.T.D.; American theologian; b. 22 July 1902; ed. Phillips Exeter Acad., Williams Coll., Oxford Univ. and Union Theological Seminary. Mem. of Faculty, Auburn Theological Seminary 1930-38; Prof. of Theology, Pacific School of Religion 1938-43; Prof. of Christian Theology and Ethics, Union Theological Seminary 1943-, Dean of Faculty 1955-63, William E. Dodge Jr. Prof. of Applied Christianity 1957-61, Reinhold Niebuhr Prof. of Social Ethics 1961-70, Pres. 1963-70; Visiting Prof. Christian Ethics, Pacific School of Religion 1970-; Pres. American Theological Soc. 1954, American Soc. for Christian Social Ethics 1961; Co-Editor Christianity and Crisis; several honorary degrees. *Publications:* Social Salvation 1935, Christian Realism 1941, Christian Ethics and Social Policy 1946, Christianity and Communism 1948 (new ed. Christianity and Communism Today 1960), Christians and the State 1958, Nuclear Weapons and the Conflict of Conscience 1962 (ed), Foreign Policy in Christian Perspective 1966, Christianity and Crisis (ed.) 1966, U.S. Foreign Policy and Christian Ethics 1977. *Address:* 620 Plymouth Road, Claremont, Calif. 91711, U.S.A.

BENNETT, Richard Rodney, C.B.E., A.R.A.M., F.R.A.M.; British composer; b. 29 March 1936, Broadstairs, Kent; s. of H. Rodney Bennett and Joan Esther Bennett; ed. Leighton Park School, Reading, Royal Acad. of Music, London and under Pierre Boulez, Paris; commissioned to write two operas by Sadler's Wells 1962; Prof. of Composition, Royal Acad. of Music 1963-65; Arnold Bax Soc. Prize for Commonwealth Composers 1964; Anthony Asquith Memorial Award for Murder on the Orient Express film music, Soc. of Film and TV Awards 1974. *Compositions:* The Approaches of Sleep 1959, Journal, Calendar, Winter Music 1960, The Ledge, Suite Française, Oboe Sonata 1961, Nocturnes, London Pastoral, Fantasy 1962, Aubade, Jazz Calendar, String Quartet No. Four, Five Studies 1964, Symphony No. 1 1965, Epithalamion 1966, Symphony No. 2 1967, Wind Quintet, Piano Concerto 1968, Jazz Pastoral 1969, Oboe Concerto 1970, Guitar Concerto 1971, Viola Concerto 1973, Commedia I-IV 1972-73, Serenade for Youth Orchestra 1977, The Christians 1977: Opera: The Mines of Sulphur 1964, A Penny for a Song 1966, Victory 1969; Film Music: Indiscreet, Devil's Disciple, Blind Date, The Mark, Only Two Can Play, Wrong Arm of the Law, Heavens Above, Billy Liar, One Way Pendulum, The Nanny, The Witches, Far from the Madding Crowd, Billion Dollar Brain, The Buttercup Chain, Secret Ceremony, Figures in a Landscape, Nicholas and Alexandra, Lady Caroline Lamb, Voices, Murder on the Orient Express, Equus. *Leisure interests:* cinema, modern jazz. *Address:* c/o London Management, Regent House, 235-241 Regent Street, London, W.1, England.

BENNETT, Robert Frederick, J.D.; American lawyer and politician; b. 23 May 1927, Johnson County, Kan.; s. of Otto F. Bennett and Dorothy Bess Dodds Bennett; m. Olivia Fisher 1971; one s. three d.; ed. Shawnee Mission North High School and Univ. of Kansas; served U.S. Marine Corps 1945-47, 1950-51; Senior Partner, Bennett, Lytle, Wetzler, Winn and Martin, law firm 1952-74; City Councilman, City of Prairie Village 1955-57, Mayor 1957-65; mem. Kansas State Senate 1965-75, Pres. 1973-75; Gov. of State of Kansas 1975-79; Chair. Nat. Republican Gov.'s Assn. 1976; mem. Policy Cttee. Nat. Governor's Assn. 1977; Chair. Interstate Oil Compact

Comm. 1978; fmr. Chair. Kan. League of Municipalities; fmr. Sec.-Treas. Kan. Bar Assn.; fmr. Chair. several Senate and joint cttees.; admitted to practice law in state and fed. courts of Kan., Mo. Supreme Court, U.S. Supreme Court; various awards. *Publications:* Legislative articles for Kansas Law Review. *Leisure interests:* reading, hunting, fishing. *Address:* Bennett, Lytle, Wetzler, Winn & Martin, 5100 West 95th Street, Prairie Village, Kansas 66208 (Office); 5315 West 96th Street, Overland Park, Kansas 66207, U.S.A. (Home). *Telephone:* (913) 642-7300 (Office).

BENNETT, Roy Frederick, F.C.A.; Canadian business executive; b. 18 March 1928, Winnipeg, Man.: s. of Charles William Bennett (deceased) and Gladys Mabel Matthews; m.; one s. two d.; ed. Collegiate Inst., N. Toronto and Inst. of Chartered Accountants. Lever Hoskin & Co., Toronto 1947-54; Kelvinator of Canada Ltd., Weston 1954-56; Ford Motor Co. of Canada Ltd., Supervisor Financial Planning 1956-57, Man. Financial Analysis 1957-60, Asst. Controller 1960-62, Dir. Vehicle Marketing 1962-63, Dir. Corporate Planning 1963-64, Gen. Marketing Man. 1964-65, Vice-Pres. Finance 1965-70, Dir. 1966-, Pres. 1970-, Chief Exec. Officer 1972-; mem. Motor Vehicle Mfrs. Assn., Premier's Advisory Cttee. on Econ. Policy, Ontario, Minister's Advisory Cttee., Dept. of Industry, Trade and Commerce, Ottawa, Canadian-American Cttee., C. D. Howe Research Inst., York Univ. Board of Governors, Policy Cttee., Business Council on Nat. Issues, Niagara Inst. Board of Govs. *Leisure interests:* golf, squash, tennis, skiing. *Address:* Ford Motor Company of Canada Limited, The Canadian Road, Oakville, Ont. L6J 5E4, Canada.

BENNETT, William John, O.B.E., LL.D., B.A.; Canadian business executive; b. 3 Nov. 1911, Schreiber, Ont.; m. Elizabeth J. Palleck; three s. four d.; ed. Fort William Collegiate Coll. and Univ. of Toronto. Private Sec. to Minister of Transport 1935-39; Chief Exec. Asst. to Minister of Munitions and Supply 1939-46; Pres. and Man. Dir. Eldorado Mining and Refining Ltd. (the Govt. agency responsible for uranium procurement) 1947-58; Pres. Northern Transportation Co. Ltd. 1947-58; Eldorado Aviation Ltd. 1953-58, Pres. Atomic Energy of Canada Ltd. 1953-58; Dir. Canadian British Aluminium Co. Ltd., Pres. 1958-60; Vice-Pres. and Dir. Iron Ore Co. of Canada 1960-65, Pres. 1965-77, Consultant 1977-; Chair. and Dir. Philips Electronics Ltd.; dir. of numerous other companies. *Address:* Iron Ore Company of Canada, 1245 Sherbrooke Street W., Montreal, P.Q.; Home: 4304 Montrose Avenue, Westmount, Quebec, Canada.

BENNETT, William Richards; Candian politician and businessman; b. 14 April 1932, Kelowna, B.C.; s. of William Andrew Cecil Bennett (Premier of B.C. 1952-72, *q.v.*) and Annie Elizabeth May (Richards) Bennett; m. Audrey Lyne James 1955: four s.; ed. Kelowna High School; established business including 17 companies, starting with retail furniture and appliance stores in B.C.; mem. B.C. Legislative Assembly for South Okanaga Sept. 1973-; leader Social Credit Party in B.C. Nov. 1973-; Premier of B.C. Dec. 1975-. *Leisure interests:* tennis, skiing, jogging. *Address:* Premier's Office, Parliament Buildings, Victoria, B.C., V8V 1X4; R.R. No. 1, Pritchard Drive, Westbank, B.C., Canada. *Telephone:* (604) 387-6200.

BENNETT, William Tapley, Jr., A.B., LL.B., D.C.L., American diplomatist; b. 1 April 1917, Griffin, Ga.; s. of William Tapley Bennett and Annie Mem Little Bennett; m. Margaret Rutherfurd White 1945; two s. three d.: ed. Univ. of Georgia, Univ. of Freiburg, Germany, and George Washington Univ. Instructor in Political Science, Univ. of Georgia 1937; with Nat. Inst. of Public Affairs 1939-40: Dept. of Agriculture 1940; Asst. to Co-ordinator, Office of Defense Housing 1940-41; with State Dept. 1941-, served in U.S. Army 1944-46; Officer in charge Central American and Panama Affairs 1949-51, Caribbean Affairs 1951, Deputy Dir. South American Affairs 1951-54; Nat. War Coll. 1954-55; Special Asst. to Deputy Under-Sec. of State 1955-57; Counsellor, Vienna 1957-61, Rome 1961; Counsellor (with rank of Minister), Athens 1961-64; Amb. to Dominican Repub. 1964-66, to Portugal 1966-69; State Dept. Rep. to Air Force Univ. 1969-71; Deputy U.S. Rep. and Amb UN Security Council 1971-; Alternate U.S. Rep. to 26th and 27th UN Gen. Assemblies 1971, 1972; Pres. UN Trusteeship Council 1972-73; Perm. Rep. to N.A.T.O. 1977-. *Leisure interests:* sailing, skiing, photography, travel, golf. *Address:* c/o N.A.T.O., 1110 Brussels, Belgium.

BENNIGSEN-FOERDER, Rudolf von; German business executive; b. 2 July 1926, Berlin; s. of Rudolf and Margarethe (née Welt) von Bennigsen-Foerder; m. Johanna Wirmer 1955; no c.; ed. Univs. of Erlangen, Bonn and Geneva; with Ministry of Finance 1957-59; joined VEBA AG 1959, Chair. Man. Board 1971-; Chair. Supervisory Board Chemische Werke Hüls AG, Gelsenwasser AG, Nordwestdeutsche Kraftwerke AG, Preussische Elektrizitäts-AG, Stinnes AG, VEBA-CHEMIE AG, VEBA-GLAS AG, VEBA Kraftwerke Ruhr AG. *Address:* 4 Düsseldorf 30, Karl-Arnold-Platz 3, Federal Republic of Germany. *Telephone:* (0211) 45791.

BENSLIMANE, Abdelkader; Moroccan politician; b. 1932; ed. Toulouse Univ., France; joined Ministry of Finance 1957; Amb. to France 1961-63; attached to Maghreb Consultative Comm., Ministry of Finance; Amb. to Belgium 1972; Minister of Trade, Industry, Mines and Merchant Marine 1972-74, of Finance 1974-77. *Address:* Place des Alaouites, B.P. 407, Rabat, Morocco.

BENSON, Hon. Edgar John, P.C., M.P., LL.D., F.C.A.; Canadian chartered accountant and politician; b. 1923; ed. Queen's Univ., Kingston, Ontario; joined firm England, Leonard and Macpherson (chartered accountants), Kingston, Ont. 1952; Asst. Prof. of Commerce, Queen's Univ., Kingston 1952-62; M.P. 1962-72; Parl. Sec. to Minister of Finance 1963-64; Minister of National Revenue 1964-68; Pres. of Treasury Board 1965-68; Minister of Finance 1968-72, also Receiver-Gen. 1968-72; Head of Central Mortgage and Housing Corpn. 1968-72; Minister of Nat. Defence Jan.-Oct. 1972; Pres. Canadian Transport Comm. 1972-; Liberal. *Address:* 275 Slater Street, Ottawa, Ont.; Home: 44 Strathcona Crescent, Kingston, Ont., Canada.

BENSON, Ezra Taft, M.S.; American agriculturist and religious leader; b. 4 Aug. 1899; ed. Brigham Young Univ., Iowa State Coll., and Univ. of Calif.; missionary of Church of Jesus Christ of Latter-day Saints in U.K. 1921-23; County Agricultural Agent, Univ. of Idaho Extension Service 1929, Extension Economist and Marketing Specialist 1930-39, Head Dept. of Agricultural Economics and Marketing 1931; Sec. Idaho Co-operative Council 1933-38; Exec. Sec. Nat. Council of Farmer Co-operatives 1939-43; served on several advisory cttees. and nat. boards in field of agriculture 1939-; mem. Exec. Cttee. American Inst. of Co-operation 1942-52, Chair. Board of Trustees 1952; mem. Farm Foundation 1946, 1950; mem. Nat. Agricultural Advisory Cttee. during Second World War, mem. Nat. Farm Credit Cttee. 1940-43; U.S. del. Int. Conf. of Farm Orgs., London 1946; U.S. Sec. of Agriculture Jan. 1953-61; Dir. Corn Products Inc. 1961-; mem. Council of Twelve, Church of Jesus Christ of Latter-day Saints 1943-, Pres. Mormon Church European Mission 1963; Republican. *Address:* 1907 Quincy Street, N.W., Washington D.C. 20011, U.S.A.

BENSON, Sir Henry, G.B.E., F.C.A.; British chartered accountant; b. 2 Aug. 1909, Johannesburg; s. of Alexander S. and Florence (née Cooper) Benson; m. Virginia Macleod 1939; two s. one d.; ed. South Africa; commissioned Grenadier Guards 1940-45; Dir. Royal Ordnance Factories 1943-44; Controller of Building Materials Ministry of Works 1945; Adviser on housing production, Ministry of Health 1945; Dir. Hudson's Bay Co. 1953-62, Deputy Gov. 1955-62; Dir. Finance Corpn. for Industry 1953-; mem. Council, Inst. of Chartered Accountants 1956-75, Pres. 1966; Investigator Ulster Transport Authority 1961, shipping services in N.Z. trade 1962, turnover tax cttee. 1963; Joint Commr. on formation of Confed. of British Ind. 1963; Joint Insp. Rolls Razor Affair 1964; Chair. Iron and Steel Fed. Devt. Cttee. 1966; Trustee, Times Trust 1967-; mem. Perm. Joint Hops Cttee. 1967-; Chair. Nat. Trust Inquiry Cttee., Racing Industry Inquiry Cttee. 1967; Vice-Pres. UEC 1969-70; mem. Ministry of Defence Admin. Cttee. 1969-71, Dockyard Policy Board 1970-75; Senior Partner, Coopers and Lybrand 1947-75; mem. CBI Co. Affairs Cttee. 1972-73; Chair. Int. Accounting Standards Cttee. 1973-76, Royal Comm. on Legal Services 1976-; Dir. Finance for Industry Ltd. 1974-; Industrial and Commercial Finance Corpn. 1974-; Exec. Dir. Hawker Siddeley 1975-; mem. Govs.' City Liaison Cttee. 1974-75; Treas. Open Univ. 1975-; Adviser to the Gov. of Bank of England 1975-. *Leisure interests:* shooting, sailing, golf. *Address:* Bank of England, London, E.C.2 (Office) 9 Durward House, 31 Kensington Court, London, W.8, England (Home). *Telephone:* 01-937 4850.

BENSON, (William) Jeffrey, F.I.B.; British banker; b. 15 July 1922, Leeds; s. of Herbert Benson and Lilian (Goodson) Benson; m. Audrey Winifred Parsons 1947: two s.; ed. West Leeds High School; joined National Provincial Bank Ltd. 1939; served R.A.F. 1941-46; Asst. Gen. Man. Nat. Provincial Bank 1965-68; Regional Exec. Dir. Nat. Westminster Bank Ltd. 1968-73, Gen. Man. of Man. Services Div. 1973-75, Deputy Chief Exec. 1975-77, Group Chief Exec. Jan. 1978-. *Leisure interests:* golf, swimming. *Address:* National Westminster Bank Ltd., 41 Lothbury, London, EC2 2BP (Office); Auben, 24 Spencer Walk, The Drive, Rickmansworth, Herts., WD3 4EE, England (Home). *Telephone:* 01-606 6060 (Office); 87-78260 (Home).

BENTLEY, Helen Delich; American government official, journalist and television and film producer; b. Ruth, Nev.; d. of Michael and Mary (Kovich) Delich; m. William Roy Bentley 1959; ed. Univ.

of Nev., George Washington Univ. and Univ. of Mo. Reporter, *Ely Record*, Nev. 1940-42: Political Campaign Man. for Senator James G. Scrugham, White Pine Co., Nev. 1942; Bureau Man. United Press, Fort Wayne, Ind. 1944-45; Reporter Baltimore Sun 1945-53, Maritime Editor 1953-69; Television Producer, world trade and maritime shows 1950-64; Public Relations Adviser, American Assn. Port Authorities 1958-62, 1964-67; Chair. Fed. Maritime Comm. 1969-; Chair. American Bi-centennial Fleet Inc. 1973-76; Pres. Int. Resources and Devt. Corpn., Washington 1976-; Editor, Seaport Histories, Ports of Americas; Republican. *Address:* Federal Maritime Commission, 1405 I Street, N.W., Washington, D.C. 20573 (Office); 408 Chapelwood Lane, Lutherville, Md. 21093, U.S.A. (Home).

BENTOV, Mordechai; Israeli journalist and politician; b. 28 March 1900, Warsaw, Poland; s. of Joseph and Helen Bentov; m. Zipora Redlich 1926; two d.; ed. Inst. of Technology, Warsaw Univ. and Jerusalem Law Classes; settled in Palestine 1920; Founder and Chief Editor Al Hamishmar 1943-48 and 1949-55; signed Declaration of Independence of Israel 1948; mem. Knesset 1949-; Minister of Labour and Reconstruction, Provisional Govt. 1948-49; Minister of Development 1955-61; mem. Jewish Agency Del. to U.N., Lake Success 1947; Del. to Zionist Congresses, Round Table Conf. London 1939, World Jewish Congress, U.S.A. 1944, Geneva 1953; mem. Secretariat, United Workers Party (MAPAM); Chair. Economic Affairs Cttee. of the Knesset 1951-55; Minister of Housing 1966-70; mem. World Exec. Hashomer Hatzair, Exec. Histadrut and Zionist Action Cttee.; mem. Exec. World Jewish Congress. *Publications:* The Case for Bi-National Palestine 1946, Israel's Economy at the Crossroads 1965, Israel, the Palestinians and the Left 1971, Bentov's Report on Policy for Diminishing Social and Economic Gaps 1974. *Leisure interests:* photography, filming. *Address:* Kibbutz Mishmar Haemek, Israel.

BENTSEN, Lloyd Millard, Jr., LL.B.; American politician; b. 11 Feb. 1921, Mission, Tex.; s. of Lloyd M. Bentsen and Edna Ruth (Colbath) Bentsen; m. Beryl A. Longino 1943; two s. one d.; ed. Univ. of Texas, Austin; served U.S. Army 1942-45; County Judge, Hidalgo County, Tex. 1946-48; mem. House of Reps. 1948-54; Pres. Lincoln Consolidated, Houston, until 1970; U.S. Senator from Tex. 1971-; Chair. Finance Sub-Cttee. on Private Pensions, Public Works Sub-Cttee. on Transportation, Joint Economic Sub-Cttee. on Econ. Growth; mem. Senate Finance Cttee., Senate Environment and Public Works Cttee., Joint Economic Cttee.; Distinguished Flying Cross; Air Medal with Three Oak Leaf Clusters; Democrat. *Address:* 240 Russell Senate Office Building, Washington, D.C. 20510, U.S.A.

BENTZ VAN DEN BERG, Pieter Rudolph; Netherlands iron and steel executive; b. 21 Feb. 1901; ed. Nederlandsche Economische Hoogeschool, Rotterdam. Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. (Royal Netherlands Blast Furnaces and Steelworks), Ijmuiden 1924-67, Gen. Proxy 1931-46, Man. Dir. 1946-65, Senior Man. Dir. 1965-, mem. Board 1967-71; Vice-Pres. Economic League for European Co-operation, Pres. Dutch Section; fmr. Pres. Central Org. for Econ. Relations with Foreign Countries; Dir. various other companies; Commdr. Order of Vasa (Sweden), Knight of the Order Nederlandsche Leeuw. *Address:* Van Lennepweg 5, Oosterbeek, Netherlands.

BENTZON, Niels Viggo; Danish composer; b. 24 Aug. 1919; ed. Danish Royal Conservatory; musical works: twelve symphonies, seven piano concertos, opera Faust, choral works, five ballets, pieces for chamber orchestra, string quartet and piano. *Address:* Solsortvej 33, Copenhagen, Denmark. *Telephone:* Fasan 24.

BENYA, Anton; Austrian trade union official: b. 1912; ed. occupational school; electromechanic, shop steward; mem. Exec. Cttee. Metal Workers and Miners Union 1948, Chair. 1962-; Sec. Austrian Trade Union Fed. 1948, Vice-Pres. 1959, Pres. 1963-; mem. Parl. 1956; mem. Exec. Cttee. Socialist Party; Pres. Nationalrat 1971-. *Address:* Elisabethallee 83, 1130 Vienna XIII; Hohenstaufengasse 10-12, 1011 Vienna, Austria. *Telephone:* Vienna 63-37-11 (Office).

BENZ, Ernst Wilhelm, DR. PHIL., LIC. THEOL., D.D. (Marburg); German university professor; b. 17 Nov. 1907, Friedrichshafen am Bodensee; s. of Ernst Benz and Line Benz (née Bofinger); m. Brigitte von Boxberger 1960; six s. one d.; ed. Univs. of Tübingen, Berlin and Rome. Docent Univ. of Halle-Wittenberg 1932-35; Extraordinary Prof. of Church History Univ. of Marburg 1935-37; Ordinary Prof. 1937-; mem. Acad. of Sciences, Mainz 1949, Acad. Septentrionale, Paris 1958, American Acad. of Arts and Sciences, Boston 1965, Katholische Akademie, Vienna 1969. *Publications:* Das Todesproblem in der Stoa 1929, Marius Victorinus und die Entwicklung der abendländischen Willensmetaphysik 1932, Ecclesia Spiritualis, Die Geschichtsanschauung und Kirchenidee der franziskanischen Reformation 1934, Der volkommene Mensch, nach Jakob Boehme 1937, Nietzsches Ideen zur Geschichte des Christentums 1938, Emanuel Swedenborg 1948, Swedenborg in Deutschland 1948, Wittenberg und Byzanz 1948, Die abendländische Sendung der östlichorthodoxen Kirche 1950, Indische Einflüsse auf die frühchristliche Theologie 1951, Russische Heiligenlegenden 1953, Bischofsamt und apostolische Sukzession 1953, Schelling, Werden und Wirken seines Denkens 1955, Schellings Theologische Geistesahnen 1955, Adam, Der Mythus von Urmenschen 1956, Geist und Leben der Ostkirche 1957, Die christliche Kabbala 1958, Der Prophet Jakob Boehme 1959, Die Bedeutung der griechisch-orthodoxen Kirche für das Abendland 1959, Ideen zu einer Theologie der Religionsgeschichte 1960, Das Christentum und die nichtchristlichen Hochreligionen, Eine internationale Bibliographie 1960, Kirchengeschichte in ökumenischer Sicht 1961, Der Übermensch, Eine Diskussion 1961, Asiatische Begegnungen 1963, Buddhas Wiederkehr und die Zukunft Asiens 1963, The Eastern Orthodox Church: Its Thought and Life 1963, Die protestantische Thebais 1963, Patriarchen und Einsiedler: der tausendjährige Athos und die Zukunft der Ostkirche 1964, Schöpfungsglaube und Endzeiterwartung 1965, Evolution and Christian Hope 1966, Les Sources Mystiques de la Philosophie Romantique Allemande 1968, Die Vision: Erfahrungsformen und Bilderwelt 1969, Der Heilige Geist in Amerika 1970, Theologie der Elektrizität 1971, Der Philosoph von Sans-Souci im Urteil der Theologie und Philosophie seiner Zeit 1971, Neue Religionen 1971, Geist und Landschaft 1972, Endzeiterwartung zwischen Ost und West 1973, Das Recht auf Faulheit (Lafargue-Studien) 1974, Urbild und Abbild (Der Mensch und die mystische Welt) 1974, Beschreibing des Christentums 1975, Kosmische Brüderschaft 1978; *Edited* Sonderhefte Z.R.G.G., Reinkarnation, Moderne Aktivität der nichtchristlichen Hochreligionen, Christliche Brüderschaften, Messianische Kirchen, Sekten und Bewegungen im heutigen Afrika. *Leisure interests:* hiking, cycling, accordion playing. *Address:* Lutherstrasse 7a, 355 Marburg (Lahn), Hessen, Federal Republic of Germany. *Telephone:* 06421-25209.

BENZER, Seymour, B.A., M.S., PH.D.; American biologist; b. 15 Oct. 1921, N.Y.C.; s. of Mayer Benzer and Eva Naidorf; m. Dorothy Vlosky 1942; two c.; ed. Brooklyn Coll. and Purdue Univ. Assistant Prof. of Physics Purdue Univ. 1947-53, Assoc. Prof. of Biophysics 1953-58, Prof. 1958-61, Stuart Distinguished Prof. 1961-67; Biophysicist Oak Ridge Nat. Laboratory 1948-49; Research Fellow California Inst. of Technology 1949-51, Visiting Assoc. 1965-67, Prof. of Biology 1967-75, Boswell Prof. of Neuroscience 1975-; Fulbright Research Scholar, Pasteur Inst., Paris 1951-52; Senior Nat. Science Foundation Research Fellow Cambridge 1957-58; Fellow, American Assn. for the Advancement of Science; mem. Nat. Acad. of Sciences, Harvey Soc., Biophysical Soc., American Acad. of Arts and Sciences, American Philosophical Soc., Foreign mem. Royal Soc. London; awards include Sigma Xi Research Award 1957 and McCoy Award 1965, Purdue Univ. and Gairdner Award of Merit (Canada) 1964, Ricketts Award, Univ. of Chicago, Lasker Award 1971, Prix Charles-Leopold Mayer, French Acad. of Sciences 1975, T. Duckett Jones Award, Helen Hay Whitney Foundation 1975, Louisa Gross Horwitz Prize, Columbia Univ. 1976; Harvey Prize, Technion, Israel 1977; Warren Triennial Prize, Mass. General Hosp. 1977; Dickson Prize, Carnegie-Mellon Univ. 1978; (Purdue) 1968, (Columbia) 1974, (Yale) 1977, (Brandeis) 1978; *Publications:* The Elementary Units of Heredity 1957, Induction of Specific Mutations with 5-bromouracil 1958, Topology of the Genetic Fine Structure 1959, Topography of the Genetic Fine Structure 1961, A Change from Nonsense to Sense in the Genetic Code 1962, On the Role of Soluble Ribonucleic Acid in Coding for Amino Acids 1962, A Physical Basis for Degeneracy in the Genetic Code 1962, Adventures in the rII Region 1966, Isolation of Behavioral Mutants of Drosophila by countercurrent Distribution 1967, Genetic Dissection of the Drosophila Nervous System by means of Mosaics 1970, Mapping of Behavior in Drosophila Mosaics 1972, Genetic Dissection of Behavior 1973, Dunce, a Mutant of Drosophila Deficient in Learning 1976. *Address:* Division of Biology, California Institute of Technology, Pasadena, Calif. 91125 (Office); 1127 E Del Mar, Pasadena, Calif. 91106, U.S.A. (Home) *Telephone:* 795-7697 (Office).

BÉRARD, Armand; French diplomatist; b. 2 May 1904; s. of Victor Bérard and Alice Colin; m. Isabelle de Savignac 1945; two d.; ed. Ecole Normale Supérieure, Paris, Heidelberg Univ., and French School for Advanced Spanish Studies, Madrid. Served Berlin 1931, Office of Under-Sec., Foreign Affairs 1936, Office of Foreign Minister 1936-37, Washington 1938, Rome (Quirinal) 1939; mem. French Del. to Armistice Comm. Wiesbaden 1940-42; mem. Underground Foreign Affairs Study Bureau 1942; escaped to Algiers 1944; Minister-Counsellor in Washington 1945; Deputy High Commr. in Germany 1949; Diplomatic Adviser to Prime Minister 1955; Ambassador to Japan 1956-59; Perm. Rep. to UN 1959-62;

Amb. to Italy 1962-67; Perm. Rep. to UN 1967-70; Gov. Fondation européenne de la Culture; Grand Officer, Légion d'honneur. *Publications:* L'Allemagne et la réorganisation de l'Europe 1944, Au temps du danger Allemand 1976. *Address:* 25 rue du Bois de Boulogne, 92200 Neuilly, France. *Telephone:* 624-35-44.

BERARD, Maurice Robert Georges; French banker; b. 17 March 1891, Paris; s. of Philippe Berard; m. Yolande de Loys-Chandieu 1918 (deceased); two s. (deceased), one d.; ed. Paris Univ. Hon. Pres. Bank of Syria and Lebanon; Hon. Pres. Friends of Nat. Museum of Modern Art; Vice-Pres. Friends of the Louvre; Hon. Pres. Assen. Léonard de Vinci; Gold Medal Aero Club of America and Aero Club of France; Officier Légion d'honneur; Croix de guerre 1914-18; D.C.M.; Mérite agricole. *Publications:* Renoir à Wargemont, Une Famille du Dauphiné. *Leisure interests:* art, archaeology, agriculture. *Address:* 7 rue Alfred Dehodencq, 75016 Paris, France. *Telephone:* TRO 16-94.

BERBERIAN, Cathy; American singer, dancer and composer; b. 4 July 1928, Attleboro, Mass.; d. of Ervant and Louise (Sudbeaz) Berberian; m. Luciano Berio 1950 (divorced); one d.; ed. Julia Richman High School, New York Univ., Columbia Univ.; learnt Hindu and Spanish dancing with La Meri: Dance Soloist, Armenian Folk Dance Song Group; costume designing, Summerstock Theatre; Milan Conservatory; vocal training in Milan with Peter Brook; concerts, television and festival appearances in many countries; teaching at univs. and conservatories in various countries; Grand Prix du Disque 1971, Wiesbaden Festival Prize 1970. *Compositions:* Stripsody (ed. C.F. Peters) 1966, Horsicat(h)y (ed. Universal) 1971, Awake and Read Joyce 1972, Anathema con Variazioni 1972; articles in various musical journals; transl. into Italian: James Joyce's World (P. Hutchins), books by Jules Feiffer and Woody Allen, Weill songs. *Address:* Via Moscati 7, Milan 20154, Italy. *Telephone:* 318-40-25, 318-24-71.

BERCOT, Pierre, D. ■■ D.; French businessman; b. 12 July 1903, Paris; m. Vivaldine Pinchon 1938; three c.; ed. Lycée Henri IV, Faculté de Droit, Paris, Ecole Nationale des Langues Orientales. President and Gen. Man. Soc. Anonyme André Citroën (Citroën, S.A. since 1968) 1958-70, Hon. Pres. 1971-76; Pres. Comobil, S.A., Geneva 1966-; Hon. Pres. Comotor, S.A., Luxembourg 1967-. *Leisure interests:* music, yachting. *Address:* 24 *bis* Parc de Montretout, 92210 Saint-Cloud, France.

BERE, James F., M.B.A.; American business executive; b. 25 July 1922, Chicago, Ill.; m.; three s. two d.; ed. Northwestern Univ., Ill.; draughtsman for Clearing Machine Div., U.S. Industries, Inc., rising to Gen. Man. of the Div., Hamilton, Ohio, Pres. and Gen. Man. of Axelson Mfg. Div., Los Angeles 1956-61; Pres. and Gen. Man. of Borg and Beck Div., Borg-Warner Corpn. 1961-64, Group Vice-Pres. Borg-Warner Corpn. Jan. 1964-66, Exec. Vice-Pres. 1966-68, Pres. 1968-75, Chief Exec. Officer 1972-; Chair. June 1975-; served with U.S.A.A.F. in Second World War; Dir. Continental Ill. Nat. Bank and Trust Co. of Chicago; mem. Young Presidents' Org., Soc. of Automotive Engineers, Board of Trustees of Ill. Inst. of Technology; mem. U.S. Council of the Int. Chamber of Commerce and Japan-U.S. Econ. Coun■ ■nd of various socs. *Address:* Borg-Warner Corporation, 200 S. Michigan Avenue, Chicago, Ill. 60604 (Office); 641 South Elm Street, Hinsdale, Ill., U.S.A. (Home). *Telephone:* (312) 663-2060 (Office).

BERENBLUM, Isaac, M.D., M.SC.; Israeli pathologist and experimental biologist; b. 26 Aug. 1903, Bialystok, Poland; s. of Paul and Michle Berenblum; m. Doris L. Bernstein 1928; two d.; ed. Bristol Grammar School and Leeds Univ.; Riley-Smith Research Fellow, Dept. Experimental Pathology and Cancer Research, Leeds Univ. Medical School 1927-36; Beit Memorial Research Fellow, Dunn School of Pathology, Oxford Univ. 1936-40; Departmental and Univ. Demonstrator in Pathology, Oxford Univ. 1940-48; in charge of Oxford Univ. Research Centre of British Empire Cancer Campaign 1940-48; Special Research Fellow, Nat. Cancer Inst., Bethesda, Md., U.S.A. 1948-50; Visiting Prof. of Oncology, Hebrew Univ., Jerusalem 1951-57; Jack Cotton Prof. of Cancer Research, Head of Dept. of Experimental Biology, The Weizmann Inst. of Science, Rehovot, Israel 1950-71, Emeritus Prof. 1971-; Scholar-in-Residence, Fogarty Int. Center, Nat. Insts. of Health, Bethesda, Md. 1971; Hon. Life mem. New York Acad. of Sciences 1958, mem. Israel Nat. Acad. Sciences and Humanities, World Acad. Arts and Sciences. *Publications:* Science versus Cancer 1946, Man against Cancer 1952, Cancer Research Today 1967, Carcinogenesis ■■ a Biological Problem 1974. *Leisure interests:* chess, writing, listening to music. *Address:* Weizmann Institute of Science, Rehovot, Israel. *Telephone:* (054) 82111.

BERETTA, David; American chemical engineer; b. 16 July 1928, Cranston, R.I.; m. Serena Shuebruk; two s. one d.; ed. Univ. of Rhode Island, Rhode Island Coll. and Univ. of Connecticut; with Fram Corpn. of East Providence 1949-51; service with U.S. Army Chemical Corps, Korean War; joined Chemical Div., Uniroyal Inc. 1953, Factory Man. Naugatuck Plant 1965, Vice-Pres. Chemical Operations, Uniroyal Ltd., Canada 1966, Vice-Pres. Marketing 1968-70, Pres. Uniroyal Chemical 1970, Group Vice-Pres. 1972-73, Dir., Chief Operating Officer 1974, Chair., Chief Exec. 1974-, Pres. 1974-77; Dir., Chair., Chief Exec., Rubber Mfrs. Assen. 1978-; mem. American Inst. of Chemical Engineers, Rhode Island Professional Engs., Board of Dirs. Highway Users Fed., Business Advisory Council, Rhode Island Univ. Coll. of Business Admin.; Trustee Cttee. for Economic Devt. *Address:* Uniroyal Inc., Oxford Management and Research Center, Middlebury, Conn. 06749, U.S.A. *Telephone:* (203) 573-2349.

BERG, Axel Ivanovich; Soviet scientist; b. 10 Nov. 1893, Orenburg; two d.; ed. Military Naval Acad. Specialist in field of radio engineering; Instructor and later Prof., Naval Engineering School 1925-, Leningrad Electrical Engineering Inst. 1926-, Mil. Naval Acad., Leningrad 1927-; Chair., All Union A. S. Popov Soc. of Radio Engineering and Electrical Communications and All Union Scientific Council for Radio-physics and Radio Engineering, U.S.S.R. Acad. of Sciences, Corresp. mem. 1943-46, Academician 1946-; Chair. Scientific Council for Complex Problem of Cybernetics, U.S.S.R. Acad. of Sciences 1959-; Editor-in-Chief Encyclopedia Automation in Production and Industrial Electronics 1962-65; mem. CPSU 1944-; Hero of Socialist Labour 1963, Order of Lenin (four times), Hammer and Sickle Gold Medal, etc. *Publications include:* Theory of Vacuum Alternating-Current Generators 1925, Theory of Calculation of Thermionic Generators 1932, Selected Works 1964. *Address:* Vaviesv Street 40, Moscow, U.S.S.R.

BERG, Bernard; Luxembourg politician; b. 14 Sept. 1931, Dudelange; m. Christine Schaffner 1957; one s.; ed. State Industrial School, Labour High School; Secretary of Labour Del. of Arbed steel works at Dudelange; then Vice-Chair. Cen. Labour Del. of Arbed steel corpn; then Chair. of Cen. Labour Del. of Arbed corpn. and Chair. of Labour Del. of Arbed works at Dudelange; mem. Cen. Cttee. of Luxembourg Workers' Trade Union, later Vice-Chair., then Chair.; mem. Council of Gen. Confed. of Labour; mem. Chamber of Deputies 1968-74; Minister of Labour and Social Security, also of Family, Housing and Social Welfare June 1974-79, Vice-Pres. of Govt. (Deputy Prime Minister) July 1976-79; Socialist. *Address:* Ministry of Labour and Social Security, 57 boulevard de la Pétrusse, Luxembourg-Ville, Grand Duchy of Luxembourg. *Telephone:* 408-01.

BERG, Fritz; German manufacturer; b. 27 Aug. 1901; ed. Univ. of Cologne; numerous hon. positions including Bundesverband der Deutschen Industrie (BDI) (Pres. 1949-71), Union des Industries de la Communauté Européenne (UNICE), Brussels, Wirtschaftsverband Eisen-, Blech- und Metallwaren, Düsseldorf (Hon. Pres. 1971-), South Westphalian Chamber of Commerce numerous awards; Hon. O.B.E. *Address:* 599 Altena/W., Lüdenscheiderstrasse 16, Federal Republic of Germany.

BERG, Harold Edgar, A.B.; American oil company executive; b. 27 May 1915, Stilwell, Kan.; s. of Rudolph O. and Astrid Thorud Berg; m. Martha Frances Howell 1938; ed. Colorado Coll., Colo.; Vice-President and Div. Gen. Man., Getty Oil Co., Mid-Continent Exploration and Production Div., Houston Tex. 1970-73; Pres. Skelly Oil Co., Tulsa, Okla. 1973-74; Exec. Vice-Pres. and Chief Operating Officer, Getty Oil Co., Los Angeles, Calif. 1975-76, Pres. Getty Oil Co. July 1976-. *Leisure interests:* hunting, golf. *Address:* Getty Oil Company, 3810 Wilshire Boulevard, Los Angeles, Calif. 90010, U.S.A. (Office). *Telephone:* (213) 381-7151 (Office).

BERG, Paul, B.S., PH.D.; American biochemist; b. 30 June 1926, New York; s. of Harry Berg and Sarah Brodsky; m. Mildred Levy 1947; one s.; ed. Pa. State Univ. and Western Reserve Univ. Postdoctoral Fellow, Copenhagen Univ., Denmark 1952-53; Postdoctoral Fellow, Washington Univ., St. Louis, Mo. 1953-54, Scholar in Cancer Research 1954-57, Asst. to Assoc. Prof. of Microbiology 1955-59; Prof. of Biochemistry, Stanford Univ. School of Medicine, Stanford, Calif. 1959-, Chair Dept. of Biochemistry 1969-74; Senior Post-Doctoral Fellow of Material Science Foundation 1961-68; Pres. American Soc. of Biological Chemists 1975-76; mem. Nat. Acad. of Sciences 1966-; Eli Lilly Prize in Biochemistry 1959, Calif. Scientist of the Year 1963, V. D. Mattia Award 1972. *Publications:* 70 publs. in fields of biochemistry and microbiology. *Leisure interests:* travel, art, and sports. *Address:* Stanford University Medical Center, Stanford, Calif. 94305, U.S.A. (Office). *Telephone:* (415) 497-6170 (Office).

BERGANZA, Teresa; Spanish mezzo-soprano singer; b. 16 March 1935; d. of Guillermo and Ascension Berganza; one s. two

d; debut in Aix-en-Provence 1957, in England, Glyndebourne 1958; has sung at La Scala, Milan, Opera Roma, Metropolitan, New York, Chicago Opera House, San Francisco Opera, Covent Garden, etc.; has appeared at festivals in Edinburgh, Holland, Glyndebourne; concerts in France, Belgium, Holland, Italy, Germany, Spain, Austria, Portugal, Scandinavia, Israel, Mexico, Buenos Aires, U.S.A., Canada, etc.; appeared ■ Rosina in Il Barbiere di Siviglia, Covent Garden 1967; Premio Lucrezia Arana; Premio extraordinario del Conservatorio de Madrid; Grande Cruz, Isabel la Católica. *Leisure interests:* art, music, reading. *Address:* Gaztambide 26, Madrid 15, Spain. *Telephone:* 2336359.

BERGEN, Candice Patricia; American actress and photo-journalist; b. 19 May 1946, Beverly Hills; d. of Edgar and Frances (née Westerman) Bergen; ed. Westlake School for Girls. *Films include:* The Group 1966, The Sand Pebbles 1966, The Day the Fish Came Out 1967, Vivre Pour Vivre 1967, The Magus 1968, Getting Straight 1970, Soldier Blue 1970, The Adventurers 1970, Carnal Knowledge 1971, The Hunting Party 1971, T. R. Baskin 1972, 11 Harrowhouse 1974, Bite the Bullet 1975, The Wind and the Lion 1976, The Domino Principle 1977, A Night Full of Rain 1977, Oliver's Story, 1978; photojournalist work has appeared in Vogue, Cosmopolitan, Life and Esquire. *Publication:* The Freezer, (in Best Short Plays of 1968). *Address:* c/o CMA, 8899 Beverly Boulevard, Hollywood, Calif. 90008, U.S.A.

BERGEN, William Benjamin, B.S., AERO.E.; American aerospace engineer and business executive; b. 29 March 1915; s. of Oldfield and Hazel Bergen; m. 1st Gertrude Catherine Coxon 1943, 2nd Eleanor Mae Page 1968; one s. one d.; ed. Mass. Inst. of Technology; Glenn L. Martin Co., Baltimore, Md. (now Martin Co.) 1937-, Chief Engineer 1949-51, Vice-Pres. Engineering 1951-53, Exec. Vice-Pres. 1953-55, Pres. 1959; Rockwell Int. (fmrly. North Amer. Rockwell) Pres. Space Div. 1967-70, Pres. Aerospace Operations 1971-, Corporate Vice-Pres. Aerospace 1974-; Dir. Calif. State Chamber of Commerce; mem. S.A.E., Holland Soc.; Fellow A.I.A.A.; Lawrence Sperry Award 1943. *Leisure interests:* flying, golf, hunting, tennis. *Address:* c/o Rockwell International, 1700 East Imperial Highway, El Segundo, Calif. 90245, U.S.A. *Telephone:* (213) 647-5552.

BERGENSTRÖM, Stig Gullmar, LL.D.; Swedish administrator; b. 3 Dec. 1909, Cannes, France; m. Hélène Renfer 1958; one s. one d. and six c. from previous marriages; ed. Univ. of Uppsala; judiciary service at Court of Justice 1934-37; Sec.-Gen. Group of the Swedish Employers' Confed. 1937, Asst. Dir. 1941, Vice-Dir. 1944, Dir. 1949–; mem. Employers' Group of Governing Body of ILO 1950-; Vice-Pres. Exec. Cttee. of Int. Org. of Employers 1952-62, Pres. Exec. Cttee. 1963-; Chair. Int. Council of Danish, Finnish, Norwegian and Swedish Employers' Confederations; Vice-Chair. Governing Body ILO 1969-. *Leisure interests:* sailing, philately. *Address:* Swedish Employers' Confederation, S. Blasieholmshamn 4A, Stockholm; Box 16 120, 103/23 Stockholm, Sweden. *Telephone:* Stockholm 14-05-00.

BERGER, Hans, DR. JUR.; German lawyer and diplomatist; b. 29 Oct. 1909, Cologne; ed. Cologne Univ. Assistant judge, Cologne 1937-39; Adviser to Commr. for Price-Control, Berlin 1939-44; Judge, Cologne 1945-47, Supreme Court of British Zone of Germany, Cologne 1948-49; Pres. Court, Düsseldorf 1949-53; Ministerial Dir. Ministry of the Interior, Bonn 1953-54; Head, Legal Dept., Foreign Office, Bonn 1954-59; Amb. to Denmark 1959-63, to Netherlands 1963-65; Sec. of State to the Pres. of the German Fed. Repub. 1965-69; Amb. to Holy See 1969-71. *Address:* 534 Bad Honnef, Austrasse 21, Federal Republic of Germany. *Telephone:* 02224 3432.

BERGER, Samuel D., PH.B.; American diplomatist; b. 6 Dec. 1911, Cloversville, N.Y.; s. of Harry I. Berger and Bess Cohen; m. Elizabeth Lee Bonner 1969; ed. Univ. of Wisconsin and London School of Economics; served U.K. 1942-50; Special Asst. to Dir. for Mutual Security 1951-53; Counsellor Tokyo, Wellington (N.Z.), Athens 1953-61; Amb. to Repub. of Korea 1961-64; Deputy Commdt. Foreign Affairs, Nat. War Coll., Washington, D.C. 1964-65; Deputy Asst. Sec. of State for Far Eastern Affairs 1965-68; Deputy Amb. to Repub. of Viet-Nam 1968-72; Co-ordinator, Senior Seminar, Foreign Service Inst., Dept. of State, Wash. 1972-74; retd. 1975. *Leisure interests:* tennis, gardening. *Address:* 2911 33rd Place, N.W., Washington, D.C. 20008, U.S.A.

BERGER, Wilhelm Georg; Romanian composer and musicologist; b. 4 Dec. 1929, Rupea, Braşov; studied violin at Bucharest Conservatoire; member of Bucharest Philharmonic Orchestra 1948-57; mem. Composers' Union Quartet 1953-57; Sec. Romanian Composers' Union; "Prince Rainier III of Monaco" Prize, Monte Carlo, 1964; Concours international de composition d'oeuvres pour quatuor à cordes Prize, Liège, 1965; "Reine Elisabeth de Belgique" Int. Musical Contest Prize 1966; "George Enescu" Prize of Romanian Acad. 1966; Composers' Union Prize 1969. *Compositions:* Eleven symphonies, chamber music (12 string quartets, sonatas, etc.). *Publications: Studies:* Moduri si proportii; Structuri sonore si aspectele lor armonice (Modes and proportions; Sonorous structures and their harmonic aspects), articles and lectures; Ghid pentru muzica instrumentală de cameră (Guidebook for instrumental chamber music) 1965; Muzica simfonică (Baroque-Classical 1967, Romantic 1972, Modern 1974, Comtemporary 1976); Quartetul de coarde de la Haydn la Debussy (The string quartet from Haydn to Debussy) 1970. *Address:* Uniunea Compozitorilor, Calea Victoriei 141, Bucharest, Romania. *Telephone:* 50-30-90.

BERGERON, André Louis; French printer and trade unionist; b. 1 Jan. 1922; Secretary-Gen. of Typographical Union, Belfort 1946-47; Force-Ouvrière 1947-48, Perm. Sec. Belfort Area 1948; Sec.-Gen. Fédération Force Ouvrière du Livre 1948-50; Regional Del. Force Ouvrière and mem. Exec. Cttee. 1950-56, mem. Bureau de la Confédération 1956-63, Sec.-Gen. Force Ouvrière 1963-. *Address:* Force Ouvrière, 198 avenue du Maine, Paris 14e, France. *Telephone:* 539-22-03.

BERGESEN, d.y., Sigval; Norwegian shipowner; b. 27 April 1893; ed. Oslo Commercial Coll; joined firm Sigval Bergesen, Stavanger 1916; partner and Head, Shipowning Dept. 1918-35; established Sig. Bergesen d.y. & Co., Oslo and Stavanger (of which he is now Senior Partner) 1935; co-Dir. A. P. Møller, Copenhagen and Odense Staalskibsvaerft, Odense 1934-39; returned to Norway 1939; Chair. and Dir. Skibsaktieselskapet Snefonn, Skipsaksjeselskapet Bergehus; Chair. of Board. Teknisk Bureau A/S, A/S Sigmalm, A/S Siganka; Commdr. Order of St. Olav, Commdr. Order of Dannebrog, Légion d'honneur, Médaille de l'Alliance Française, Les Palmes d'Officier de L'Instr. Publique (France), Knight's Cross of the Order of the Redeemer (Greece), Royal Order of George I. *Address:* Bergehus, Drammensveien 106, Oslo (Office); Huk avenue 15, Bygdøy Oslo, Norway. (Home).

BERGGOLTS, Olga Fyodorovna; Soviet author & poet; b. 1910 St. Petersburg; ed. Leningrad Univ. Corresp. Alma-Ata newspaper The Steppe 1930-31; spoke in factories, to units and on radio ships of Baltic Fleet 1941-45; Stalin Prizewinner. *Publications:* largely devoted to theme of Leningrad blockade include: february Diary 1942; A Poem of Leningrad 1942, Leningrad Diary 1941-44 1944, They Lived in Leningrad 1944, Your Path 1945, On Our Land 1947, Selected Works 1948, 1954, 1967, The First All-Russian 1950, Loyalty (poem) 1954, Lyrics 1955, Long Poems 1955, New Verse 1962, But He was Only a Soldier 1965; Leningrad Speaking 1964, Stars By Day 1964 (Memoirs); The Knot (novel) 1965, Memory (verse) 1972, Collected Works (3 vols.) 1972-73. *Address:* U.S.S.R. Union of Writers, Ulitsa Vorovskogo, 52, Moscow U.S.S.R.

BERGGREN, Thommy; Swedish actor; b. 1937; ed. The Pickwick Club (private dramatic school), Atelierteatern, Stockholm, and Gothenburg Theatre; Gothenburg Theatre 1959-63; Royal Dramatic Theatre, Stockholm 1963-; *plays acted in include:* Gengangaren (Ibsen) 1962, Romeo and Juliet 1962, Chembalo 1962, Who's Afraid of Virginia Woolf 1964. *Films acted in include:* Pärlemor 1961, Barnvagnen (The Pram) 1962, Kvarteret Korpen (Ravens End) 1963, En söndag i september (A Sunday in September) 1963, Karlek 65 (Love 65) 1965, Elvira Madigan 1967, The Black Palm Trees 1969, The Ballad of Joe Hill 1971. *Address:* c/o Svenska Filminstitutet, Kungsgatan 48, Stockholm C., Sweden.

BERGHAUS, Ruth; German theatre director; b. 2 July 1927, Dresden; m. Paul Dessau (*q.v.*); choreographer of the Paluccaschule, Dresden, and the Theater der Freundschaft 1951-64; joined Berliner Ensemble 1964, Deputy Dir. 1970-71, Dir. 1971-; productions at Berliner Ensemble include Viet Nam Diskurs (Peter Weiss), Brecht's Im Dickicht der Städte 1971, Die Gewehre der Frau Carrar 1971, Omphale (Peter Hacks) 1972, Zement (Heiner Müller) 1973, Die Mutter 1974; also responsible for several productions at the State Opera, Berlin, including works by R. Strauss, Rossini, Weber and Dessau; mem. Berlin City Parliament 1971-; extraordinary mem. Deutsche Akad. der Künste. *Address:* Berliner Ensemble, Am Bertolt-Brecht-Platz 1, 104 Berlin, German Democratic Republic.

BERGLAND, Robert Selmer; American farmer and politician; b. 22 July 1928, Roseau, Minn.; s. of Selmer and Mabel (Evans) Bergland; m. Helen Grahn 1950; four s. two d.; ed. Univ. of Minnesota School of Agric.; representative of Minn. Farmers' Union 1948-50; farmer 1950-; Sec. Roseau County Democratic Farmer-Labor Party, Minn. 1951-52, Chair. 1953-54; Chair. Minn. Agricultural Stabilization and Conservation Service Cttee.. 1961-63, Dir. of Service for Midwest 1963-68; mem. House of Reps. 1971-76, served House Agric. Cttee.; Agricultural Adviser to Senator W.

Mondale (now U.S. Vice-Pres.) 1977; U.S. Sec. for Agric. Jan. 1977–; mem. Minn. Farmers' Union, Nat. Farmers' Org.; Gold Letter Award, Univ. of Minn. *Address:* Department of Agriculture, 14th Street and Independence Avenue, S.W., Washington, D.C. 20250 (Office); Route 3, Roseau, Minn. 56751, U.S.A. (Home).

BERGLUND, Paavo Allen Engelbert, Finnish musician; b. 14 April 1929, Helsinki; s. of Hjalmar and Siiri (Loiri) Berglund; m. Kirsti Kivekäs 1958; one s. two d.; ed. Sibelius Acad. Helsinki. Violinist, Finnish Radio Symphony Orchestra 1949-56, Conductor 1956-62, Principal Conductor 1962-71; Principal Conductor Bournemouth Symphony Orch. 1972-79, Helsinki Philharmonic Orch. 1975-; State Award for Music 1972; Hon. O.B.E. *Recordings:* complete Sibelius symphonies incl. Kullervo Symphony 1971-77, Ma Vlast (Smetana), Shostakovich symphonies 5, 6, 7, 10, many other recordings. *Publication:* A Comparative Study of the Printed Score and the Manuscript of the Seventh Symphony of Sibelius 1970. *Address:* c/o Bournemouth Symphony Orchestra, Bournemouth, England.

BERGMAN, Ingmar; Swedish film director and theatre producer; b. 14 July 1918, Uppsala; ed. Stockholm Univ.; producer Royal Theatre, Stockholm 1940-42; scriptwriter and producer Svensk Filmindustri 1940-44; theatre-dir. Helsingborg 1944-46, Gothenburg 1946-49, Malmo 1954-63; leading Dir. Royal Dramatic Theatre, Stockholm 1963-66; has written the scripts of most of his films; Erasmus Prize 1965, Award for Best Dir. Nat. Soc. of Film Critics 1970, Order of the Yugoslav Flag 1971, Luigi Pirandello Int. Theatre Prize 1971, Goethe Award (Frankfurt) 1976, Gold Medal of Swedish Acad. 1977; author of plays A Painting on Wood, The City, The Rite (TV play), The Lie (TV play), Scenes from a Marriage (TV play); Dir. To Damascus 1974, The Merry Widow, Twelfth Night 1975. *Films include:* Crisis 1945, It Rains on our Love 1946, A Ship Bound for India 1947, Music in Darkness 1947, Port of Call 1948, Prison 1948, Thirst 1949, To Joy 1949, Summer Interlude 1950, This Can't Happen Here 1950, Waiting Women 1952, Summer with Monika 1952, Sawdust and Tinsel 1953, A Lesson in Love 1954, Journey into Autumn 1955, Smiles of a Summer Night 1955, The Seventh Seal 1956, Wild Strawberries 1957, So Close to Life 1957, The Face 1958, The Virgin Spring 1959, The Devil's Eye 1960, Through a Glass Darkly 1961, Winter Light 1962, The Silence 1962, Now About these Women 1963, episode in Stimulantia 1965, Persona 1966, The Hour of the Wolf 1967, Shame 1968, The Rite 1970, A Passion 1970, The Touch 1971, Cries and Whispers 1972, Scenes from a Marriage 1974 (film and TV), The Magic Flute (film and TV) 1975, Face to Face (film and TV) 1975, The Serpent's Egg 1977, Sonate d'automne 1978. *Address:* Living in Munich, Federal Republic of Germany.

BERGMAN, Ingrid; Swedish actress and film star; b. 29 Aug. 1915; m. 1st Petter Lindstrom, one d.; 2nd Roberto Rosselini, one s. one d.; 3rd Lars Schmidt; ed. Stockholm; starred in Swedish, German, American, Italian, British and French films, including Intermezzo, Casablanca, Gaslight, Bells of St. Mary's, For Whom the Bell Tolls, Stromboli, Anastasia, Notorious, Spellbound, Indiscreet, Inn of the Sixth Happiness, Goodbye Again, The Visit, Yellow Rolls-Royce, Cactus Flower, Walk in the Spring Rain, Mixed Up Files of Mrs. Frankweiler, Murder on the Orient Express 1974, A Matter of Time 1976, Sonate d'automne 1978; has also appeared on the stage in New York, Rome, Paris and London in Joan of Lorraine (U.S.A.) 1946, Tea and Sympathy (Paris) 1956, A Month in the Country (London) 1965, More Stately Mansions (Los Angeles, New York) 1967-68, Captain Brassbound's Conversion (London) 1971, The Constant Wife (London, U.S.A.) 1973-74, Waters of the Moon (Chichester) 1977, etc.; Pres. of Jury, Cannes Film Festival 1973; Order of Vasa, Acad. Awards 1944, 1956, Best Supporting Actress Award, Soc. of Film and TV Awards 1974, Acad. Award for Best Supporting Actress 1974.

BERGONZI, Carlo; Italian tenor opera singer; b. 13 July 1924, Busseto, Parma; ed. Parma Conservatory; debut (baritone) as Figaro (Il Barbiere di Siviglia) at Lecce 1948; debut as tenor in title role of Andrea Chénier, Teatro Petruzzelli, Bari 1951; subsequently appeared at various Italian opera houses including La Scala, Milan; U.S. debut in Il Tabarro and Cavalleria Rusticana, Lyric Opera, Chicago 1955; appeared at Metropolitan Opera, New York in Aida (as Radames) and Il Trovatore (as Manrico) 1955-56; now appears at all the major opera houses in Europe, and also in U.S.A. and South America; repertoire includes many Verdi roles. *Address:* c/o Signor A. Ziliani, A.L.C.I., Via Paolo da Cannobio 2, Milan, Italy; c/o John Coast, 1 Park Close, London, S.W.1, England.

BERGQUIST, Kenneth Paul, B.S.; American aviation management consultant; b. 21 Nov. 1912, Crookston, Minn.; s. of late Carl W. Bergquist and Anna O. Bergquist; m. Alice Stark Porterfield 1937; one s. one d.; ed. U.S. Military Acad. and National War Coll. Air Attaché, Athens 1947-49; Dir. of Operations, Air Defence Command, Colo. 1950-55; Dir. of Operations, Air Force H.Q., Washington D.C. 1955-58; Commdr. Electronic Systems Div., Hanscom Field, Mass. 1958-62; Commdr. Air Force Communications Service 1962-65; retd. as Maj.-Gen. June 1965; Admin. Asst. for Aviation and Communications, Bethlehem Steel Corpn. 1966-72; mem. Board of Govs., Flight Safety Foundation 1969-72; D.S.M., four Legion of Merit Awards, Bronze Star Medal, Air Medal, Greek Order of the Phoenix, Greek D.S.M. *Leisure interests:* ski-ing, water ski-ing, swimming, boating, golf. *Address:* 3325 Foxbriar Lane, Cibolo, Tex. 78108, U.S.A. *Telephone:* (512) 625-5964.

BERINSON, Zvi, SC.DIP., B.A.; Israeli judge; b. 1907, Safad; s. of Haim and Haya Berinson; m. Hana Wolf 1931; one s. one d.; ed. Scots Coll., Safad, Israel, Jesus Coll., Cambridge, and Gray's Inn, London. Lecturer, Scots Coll. 1929-31; Legal Adviser and Dir. Municipal Dept. Gen. Fed. of Jewish Labour, Palestine 1936-49; Dir.-Gen. Ministry of Labour, Israel Govt. 1949-53; Judge, Supreme Court 1954-77; Lecturer on Labour Law and Social Insurance, Hebrew Univ. 1953-72; Chair. League of Socs. for the Rehabilitation of Offenders, Israel Nat. Opera, Inst. for Voluntary Arbitration in the Public Services; Pres. Public Council for the Prevention of Noise and Air Pollution in Israel; mem. of the Board Int. Prisoners' Aid Asscn.; head of Israel Del. to ILO 1949-53, 1958-59; Rozolio Prize for Distinction in Public Admin. and Service 1978. *Leisure interests:* gardening, hiking, public service. *Address:* 18 Marcus Street, Jerusalem, Israel. *Telephone:* 32483.

BERIO, Luciano; Italian composer; b. 24 Oct. 1925; ed. Liceo Classico and Conservatorio G. Verdi, Milan; founder of Studio de Fonologia Musicale, Italian Radio; Teacher of Composition and Lecturer at Mills Coll. (Calif.), Darmstadt, and Harvard Univ.; now Prof. of Composition, Juilliard School of Music, N.Y. *Compositions include:* 5 Variazioni 1951, Nones for Orchestra 1954, Alleluyah I and II 1955-57, Thema (Omaggio a Joyce) 1958, Circles 1960, Visage 1961, Epifanie 63, Passagio 1962, Laborintus 1965, O King 1968, Sinfonia 1969, This Means That . . . 1970, Opera 1970, Laborintus 2. *Address:* 53 Potter Place, Weehawken, N.J. 07087, U.S.A. *Telephone:* 201-863-8283.

BERIOSOVA, Svetlana; British ballerina; b. 24 Sept. 1932, Lithuania; d. of Nicolas and Maria Beriozoff; m. Mohammed Masud Khan 1959 (dissolved 1974); with Metropolitan Ballet 1946-49, Sadler's Wells Theatre Ballet 1949-52, Sadler's Wells Ballet (now Royal Ballet) 1952-; leading roles in Swan Lake, The Sleeping Beauty, Giselle, Coppélia, Trumpet Concerto, The Shadow, Rinaldo and Armida, The Prince of the Pagodas, Antigone, Baiser de la Fée, Perséphone, Les Sylphides, The Lady and the Fool, Ondine, Sylvia, Apollo, Lilac Garden, Cinderella, Les Biches, Les Noces, Enigma Variations 1968, Jazz Calendar 1969, La Bayadère, Checkpoint 1970, etc. *Leisure interest:* the arts. *Address:* Royal Opera House, Covent Garden, London, W.C.2; 3 Hans Crescent, London, S.W.1, England.

BERKELEY, Sir Lennox Randal, Kt., B.A.; British composer; b. 12 May 1903, Boars Hill, Oxford; s. of Hastings Fitzhardinge Berkeley and Aline Carla (née Harris); m. Elizabeth Freda Bernstein; three s.; ed. Gresham's School, Holt, and Merton Coll., Oxford; studied music in Paris with Mlle. Nadia Boulanger 1927-31; mem. B.B.C. Music Dept. staff 1942-45; awarded Collard Fellowship in Music 1946; Composition Prof. Royal Acad. of Music, London 1946-68, Pres. Performing Right Soc. 1975-, Pres. Composers' Guild; Hon. Fellow Merton Coll., Oxford Univ.; Hon. D.Mus. (Oxford Univ.). *Principal works include:* Orchestra: four Symphonies, Divertimento, Nocturne, Concerto for piano and orchestra, Concerto for two pianos and orchestra, Concerto for violin and chamber orchestra, Five Pieces for violin and orchestra, The Winter's Tale (suite), Voices of the Night, Guitar Concerto, Sinfonia Concertante for Oboe and Orchestra; Chamber Music: Three string quartets, string trio, Sonata for viola and piano, Trio for violin, horn and piano, Sextet for clarinet, horn and string quartet, Duo for cello and piano, Quintet for wind and piano; Piano: Sonata, six Preludes, four Concert studies; Vocal: Four Poems of St. Teresa for contralto and strings, Stabat Mater for six soloists and twelve instruments, Five Poems of W. H. Auden, Autumn's Legacy, Song Cycle for voice and piano, Mass for five voices, Songs of the Half-Light for high voice and guitar, Magnificat (City Festival, London) 1968, Guitar Concertino 1974, Five Chinese Songs; Opera: Nelson, A Dinner Engagement, Ruth, Castaway. *Address:* 8 Warwick Avenue, London, W.2, England.

BERKELEY, Norborne, Jr., LL.B.; American banker; b. 5 June 1922, Bethlehem, Pa.; s. of Norborne and Dorothea (Randolph) Berkeley; m. Rowena Bauer Berkeley 1972; one s. two d. (by

previous marriage); ed. Yale Univ., Univ. of Virginia, Harvard Univ. Advanced Man. Program; joined Chemical New York Corpn. 1950; Senior Vice-Pres. Chemical Bank (subsidiary of Chem. New York Corpn.) 1966-68, Exec. Vice-Pres. 1968-73; Pres. and Chief Admin. Officer, Chemical New York Corpn. and Chemical Bank Fed. 1973–; Chair. Board, Wildcat Service Corpn. 1973-, Dir. Uniroyal Inc., Hartz Mountain Corpn., Freeport Minerals Co., Beekman Downtown Hosp., Nat. Board of Boys' Clubs of America, Vera Inst. of Justice; Trustee, Nat. Recreation Foundation, Whitney Museum of American Art; mem. Assn. of Reserve City Bankers, President's Advisory Cttee. for Trade Negotiations. *Leisure interests:* golf, skiing. *Address:* 20 Pine Street, New York, N.Y. 10005 (Office); 41 Westcott Road, Princeton, N.J. 08540, U.S.A. (Home).

BERKHOUWER, Cornelis, LL.D.; Netherlands barrister and politician; b. 19 March 1919, Alkmaar; s. of Cornelis Berkhouwer and Neeltje Vroegop; m. Michelle Martel 1966; two s.; ed. Univ. of Amsterdam; barrister 1942-; mem. Second Chamber, States-Gen. 1956-; European Parl., mem. 1963-68, Pres. Liberal Group 1968-72, Pres. European Parl. 1973-75; Commdr. Order of the Netherlands Lion; Grand Officer, Order of Merit (Italy). *Publications:* various articles in the field of law. *Leisure interests:* tennis, swimming, cycling, athletics, literature, music. *Address:* 56 Stationsweg, Heiloo, Netherlands. *Telephone:* 32791.

BERKIN, John Phillip, C.B.E., M.A.; British oil executive; b. 23 Oct. 1905, Hankow, China; s. of John Berkin and Leila Louise Berkin (née Doolittle); m. 1st Elizabeth Mary Joseph Arnold 1934 (deceased 1967), one s.; m. 2nd Lilian Ivy Beatrice Chisholm 1968; ed. Taunton School and Sidney Sussex Coll. Cambridge; joined Royal Dutch/Shell Group 1927 and served in Far East, London and U.S.A.; Vice-Pres. Asiatic Petroleum Corpn. New York 1942-46; Dir. Shell Petroleum Co. Ltd. 1953-76, Man. Dir. Royal Dutch/Shell Group 1957-66; Dir. Shell Petroleum N.V. 1957-68; Dir. "Shell" Transport and Trading Co. Ltd. 1957-76; Dir. Industrial Reorganisation Corpn. 1966-68, National & Grindlays Bank Ltd. 1966-76, The Nuclear Power Group Ltd. 1969-71. *Address:* Oriel, Fairfield Road, Southdown, Shawford, Winchester, Hants, England.

BERKOL, Faruk N., LL.D.; Turkish diplomatist; b. 9 Sept. 1917, Istanbul; s. of Nurettin Ali Berkol and Pakize Berkol; ed. Univs. of Istanbul, Paris, School of Political Science, Paris and Inst. of Advanced Int. Studies, Paris; joined Ministry of Foreign Affairs 1941; First Sec., Washington 1945-50; Counsellor, later Chargé d'affaires, London 1952-56; Chief of Cabinet to Pres. of Turkey 1956-60; Amb. to Tunisia 1962-67, to Belgium 1967-72; UN Under-Sec.-Gen., UN Disaster Relief Co-ordinator 1972-. *Publications:* works in Turkish and French on the Balkan entente, Turkish economic expansion and the legal status of eastern Mediterranean waterways. *Leisure interests:* fishing, gardening. *Address:* Office of the United Nations Disaster Relief Co-ordinator (UNDRO), Palais des Nations, 1211 Geneva 10, Switzerland. *Telephone:* 34 60 11.

BERLIET, Paul; French industrialist; b. 5 Oct. 1918; s. of Marius and Louise (née Saunière) Berliet; m. Colette Vignon-Carret 1942; two s. two d.; ed. Lycée Ampère, Lyon; Deputy Dir.-Gen. Société Automobiles M. Berliet 1954-58, Admin. Dir.-Gen. 1958-62, Pres., Dir.-Gen. 1962-74, Vice-Pres. and Dir.-Gen. 1975-78; Pres. Board Saviem 1975-76, Renault Véhicules Industriels (RVI) 1978-; Admin. Citröen S.A. 1968-75; Admin. Sté. Lyonnaise de Dépôts et de Crédit Industriel, Société d'Etude de Développement et de Matériels Spéciaux (SEDEMS), Société Rhodanienne de Financement (SORHOFI); Officier Légion d'honneur. *Address:* La Cerisaie, rue Carnot, 69 Saint-Cyr-au-Mont-d'Or, France.

BERLIN, Irving, D.MUS.; American composer and song writer; b. 11 May 1888 in Russia; s. of Moses and Leah L. Baline; m. Ellin Mackay 1926; three d.; ed. public schools in New York City; went to U.S.A. 1893; Pres. Irving Berlin Music Corpn.; Medal of Merit for This is the Army, special gold medal for God Bless america, Légion d'honneur, Medal of Freedom 1977. *Songs include:* Alexander's Ragtime Band, Oh, How I Hate to get up in the morning, Always, Reaching for the Moon, White Christmas, God Bless America, Blue Skies, What'll I do, All Alone, Remember, Everybody's Doing It, There's No Business Like Show Business, How Deep in the Ocean, among hundreds of others; musicals: This is the Army (comedy), Easter Parade (film), Annie Get You Gun, Miss Liberty, Mr. President and Call Me Madam (stage musicals), Top Hat, Follow the Fleet, Alexander's Ragtime Band, Holiday Inn (films). *Address:* Irving Berlin Music Corporation, 1290 Avenue of the Americas, New York, N.Y., U.S.A.

BERLIN, Sir Isaiah, O.M., Kt., C.B.E., M.A., F.B.A.; British university teacher; b. 6 June 1909; s. of Mendel and Marie Berlin; m. Aline de Gunzbourg 1956; ed. St. Paul's School and Corpus Christi Coll., Oxford; Lecturer in Philosophy, New Coll., Oxford 1932; Fellow of All Souls Coll., Oxford 1932-38; Fellow and Tutor New Coll. 1938-50; attached to British Information Service New York 1941; First Sec., British Embassy, Washington 1942-46, Moscow 1945; Lecturer, Oxford Univ. 1947-; Sub-Warden New Coll. 1949-50; Research Fellow, All Souls Coll. 1950-57; Chichele Prof. of Social and Political Theory, Oxford Univ. 1957-67; Visiting Lecturer, Harvard 1949, 1951, 1953, Ford Research Prof. 1962, Mellon Lecturer, Washington, D.C. 1965; Visiting Prof., Princeton Univ. 1966; Mary Flexner Lecturer, Bryn Mawr Coll. 1952-53; Auguste Comte Memorial Lecturer, L.S.E. 1953; Northcliffe Lecturer, Univ. Coll., London; Alexander White Prof., Chicago Univ. 1955; Romanes Lecturer, Oxford Univ. 1971; Gov. Univ. of Jerusalem; Trustee, Nat. Gallery 1975-; Dir. Royal Opera House, Covent Garden 1954-66, 1974-; Prof. of Humanities, City Univ. of N.Y. 1966-72; Pres. Wolfson Coll., Oxford 1966-75; Fellow, All Souls Coll. 1975-; Pres. British Acad. 1974-78; Hon. mem. American Acad. of Arts and Sciences, Arts and Letters; Fellow, American Philosophical Soc.; Hon. Dr., Hull, Cambridge, Glasgow, East Anglia, Columbia, Brandeis, London, Liverpool, Jerusalem and Tel-Aviv Univs.; Hon. Fellow, Corpus Christi Coll., Oxford. *Publications:* Karl Marx 1939, The Hedgehog and the Fox, Historical Inevitability 1954, The Age of Enlightenment 1956, Two Concepts of Liberty, 1958, The Life and Opinions of Moses Hess 1959, Four Essays on Liberty 1969, Fathers and Children 1972, Vico and Herder 1976, Russian Thinkers 1978, Concepts and Categories 1978. *Address:* All Souls College, Oxford, England.

BERLINER, Robert W., B.S., M.D.; American physician; b. 10 March 1915, New York; s. of William M. Berliner and Anna Weiner; m. Lea Silver 1941; two s. two d.; ed. Yale Univ. and Columbia Univ.; Intern, Presbyterian Hospital, New York 1939-41; Resident Physician, Goldwater Hospital, New York 1942-43; Research Fellow, Goldwater Memorial Hospital, and Asst. in Medicine, New York Univ. Coll. of Medicine 1943-44; Research Asst., Goldwater Memorial Hospital, and Instructor in Medicine, New York Univ. Coll. of Medicine 1944-47; Asst. Prof. of Medicine, Columbia Univ. 1947-50; Research Assoc., Dept. of Hospitals, City of New York 1947-50; Chief, Lab. of Kidney and Electrolyte Metabolism, Nat. Insts. of Health, Bethesda, Md. 1950-62; Special Lecturer, George Washington School of Medicine, Washington, D.C. 1951-; Dir. of Intramural Research, Nat. Heart Inst., Nat. Insts. of Health 1954-68; Dir. of Labs. and Clinics, Nat. Insts. of Health 1968-69, Deputy Dir. for Science 1969-73; Prof. Lecturer, Georgetown Univ. Schools of Medicine and Dentistry 1964-73; Prof. of Physiology and Medicine, Dean, Yale Univ. School of Medicine 1973-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Heart Assn.; Pres. American Soc. of Nephrology 1968; mem. numerous other medical socs.; Distinguished Service Award, Dept. of Health, Educ. and Welfare 1962, Homer W. Smith Award in Renal Physiology 1965, Alumni Award for Distinguished Achievement, Coll. of Physicians and Surgeons, Columbia Univ. 1966, Bicentennial Medal, Coll. of Physicians and Surgeons, Columbia Univ. 1967, Distinguished Achievement Award by Modern Medicine 1969, American Heart Assn. Research Achievement Award 1970. *Publications:* approx. 100 publs. in medical literature. *Leisure interests:* hiking, birdwatching, music. *Address:* Yale University School of Medicine, C203 Sterling Hall of Medicine, 333 Cedar Street, New Haven, Conn. 06510 (Office); 36 Edgehill Terrace, New Haven, Conn. 06511, U.S.A. (Home). *Telephone:* (203) 432-4586 (Office); (203)777-1379 (Home).

BERLINGUER, Enrico; Italian politician; b. 25 May 1922, Sassari, Sardinia; m.; four c.; joined Italian Communist Party 1944; active in communist youth movt. in Milan and Rome; mem. Cen. Cttee. Italian CP 1945-, Deputy Sec. 1968-72, Sec. 1972-, Sec.-Gen. Youth Movt. 1949-56; Chair. World Fed. of Democratic Youth 1950-53; Regional Sec. Italian CP, Sardinia 1957-58; Chief, Organizational Dept., Cen. Cttee., Italian CP 1958; mem. Chamber of Deputies 1968-; mem. European Parl. 1979-. *Address:* Partito Comunista Italiano, Via delle Botteghe Oscure 4, Rome, Italy.

BERNABEI, Ettore; Italian journalist and broadcasting executive; b. 1921; ed. Univ. of Florence; Director Il Giornale del Mattino (Florence) 1951-56, Il Popolo (Rome) 1956-60; Editor La Nazione del Popolo (Florence); Dir.-Gen. Radiotelevisione Italiana 1961-74; Pres. Italstat 1974-. *Address:* Italstat S.p.A., 9 Avenue Arno, Rome, Italy. *Telephone:* 844-8141.

BERNABÓ-BREA, Luigi; Italian archaeologist; b. 27 Sept. 1910; ed. Univs. of Genoa and Rome and Italian School of Archaeology, Athens; Insp., Archaeological Museum, Taranto 38; Supt. of Antiquities for Liguria 1939-41, for Eastern Sicily 1941-; Dir. Archaeological Museum, Syracuse 1941-; founder and Dir. Aeolian museum, Lipari; Dir. Italian archaeological mission to Poliochni, Lemnos. *Publications:* Gli scavi nella Caverna delle Arene Candide di Finale

Ligure, Vol. I 1946, Vol. II 1956, La scultura funeraria tarantina 1952, Akrai 1956, Sicily before the Greeks 1958, Poliochni, Vol. I 1964, Vol. II 1976, Mylai 1960, Meliguni's Lipora, Vol. I 1960, Vol. II 1965, Vol. III 1968, Vol. IV 1978 in collaboration with M. Cavalier. *Address:* c/o Museo Eoliano, Lipari, Aeolian Islands, Italy.

BERNADOTTE, Count Sigvard Oscar Fredrik, B.A.; Swedish industrial designer; b. 7 June 1907; s. of late King Gustav VI of Sweden; m. Marianne Lindberg 1961; ed. Uppsala Univ., Royal Acad. of Arts, Stockholm and Munich; designed silverware, textiles, bookbindings, glass, porcelain 1929-; Partner, Bernadotte & Bjørn (Industrial Design) 1949, own firm Bernadotte Design AB 1964-; Pres. Int. Council of Socs. of Industrial Design (ICSID) 1961-63; awarded Gold Medal, Silver Medal and Diploma at the Milan Triennale. *Address:* Villagatan 10, Stockholm, Sweden. *Telephone:* 10-20-20.

BERNAL Y GARCÍA PIMENTEL, Ignacio, PH.D.; Mexican anthropologist; b. 13 Feb. 1910, Paris, France; s. of Rafael Bernal and Rafaela García Pimentel (de Bernal); m. Sofía Verea 1944; two s. two d.; ed. Loyola Coll., Montreal, Canada, Univ. Nacional Autónoma de México, Escuela Nacional de Antropología, Mexico. Director, Dept. of Anthropology, Mexico City Coll. 1948-59; Prof., Univ. Nacional Autónoma de México 1949-; Sec. Soc. Mexicana de Antropologia 1954-62; Perm. Del. to UNESCO, Mexico 1955-56; Dir., Nat. Museum of Anthropology, Mexico 1962-68, Nat. Inst. of Anthropology and History, Mexico 1968-70, Teotihuacan Project 1962-64; Dir. Nat. Museum of Anthropology 1971-77; Regular mem. El Colegio Nacional de México, British Acad., Acad. Mexicana de la Historia, Academia de la Lengua; Foreign Fellow, American Acad. of Arts and Sciences; mem. other Mexican and foreign anthropological orgs.; decorations from Netherlands, France, Italy, Belgium, Denmark, Senegal, U.K., Yugoslavia and German Fed. Repub. *Publications include:* Introduction to Archaeology 1952, Mesoamérica 1953, Huitzilopochtli Vivo 1957, Pintura Precolombina 1958, Tenochtitlan [illegible] una Isla 1959, Correspondencia de Bandelier 1960, Toynbee y Mesoamérica 1960, Bibliografia y Etnografia 1962, Mexico before Cortez 1963, Teotihuacan 1963, Mexican Wall Paintings 1963, Mexican Art 1963; various sections Handbook of Middle American Indians 1965, El Museo de Antropologia 1967, La Cerámica de Monte Albán 1967, El Mundo Olmeca 1968, Ancient Mexico in Colour 1968, The Mexican National Museum of Anthropology 1968, The Olmec World 1969. *Address:* Tres Picos 65, México 5, D.F., Mexico.

BERNAR CASTELLANOS, Ignacio; Spanish economist; b. 11 Nov. 1929; s. of Manuel Bernar and Rosario Castellanos; m. Virginia Elorza Losada 1955; one s. five d.; ed. Commercial Univ. of Deusto and Central Univ. of Madrid; Dir., Macmor, S.A. until 1960; Dir.-Gen., Foreign Trade, Ministry of Trade 1962-68; Councillor, Instituto Español de Moneda Extranjera (IEME), Empresa Nacional Bazán, Almadén, Crédito y Caución, S.A. 1962-68; Dir.-Gen. Supreme Council of the Chamber of Commerce, Industry and Navigation 1968-76; Gran Cruz del Mérito Civil, Cruz de San Carlos (Colombia). *Leisure interests:* hockey, golf, tennis, trout fishing, hunting. *Address:* c/o Consejo Superior de las Cámaras Oficiales de Comercio, Industria y Navigación de España, Calle Claudio Coello 19, 1°, Madrid, Spain.

BERNARD, Henry; French architect; b. 21 Feb. 1912, Savoy; s. of Henri and Louise (née Vallat) Bernard; m. Marie-Thérèse de Malherbe 1945; two c.; ed. Ecole Nationale des Beaux-Arts and in Rome; served during Second World War 1939-45; architect to Palace of Versailles 1945; Deputy Chief Architect to City of Caen 1945, Architect-in-Chief 1953, Inspector-Gen. of Civil Buildings and Nat. Palaces 1963; Pres. Acad. of Architecture 1966-69; work includes St. Julien Church, several lycées and buildings of Univ. of Caen; other projects include univ. hosp. centres at Caen, Grenoble, Tours, town planning project at Grenoble, and schemes for Paris, etc.; Officier, Légion d'honneur, Chevalier de l'Ordre nationale du Mérite, Commdr. des Arts et des Lettres. *Publications:* articles in literary and specialized journals. *Address:* 2 place Rodin, 75016 Paris, France.

BERNARD, Lucien, M.D.; French public health official; b. 30 Nov. 1913, Paris; s. of Noel Bernard and Paule Delage; m. Marguerite Hamelin 1939; one s. two d.; ed. Faculté de Paris and Inst. Pasteur, Paris; Dir. of Health Services and Prof. of Microbiology, School of Medicine, Rheims 1941-44; Chief of Communicable Diseases branch and Int. Health at Ministry of Public Health 1946-56; Asst. to Dir.-Gen. of Public Health 1956-58; Dir. of Health Services, Regional Office for S.E. Asia, World Health Org. (WHO) 1958-63, Dir. in the office of the Dir.-Gen., Geneva, and Personal Rep. of the Dir.-Gen. at Regional Office for Africa 1963-64; Asst. Dir.-Gen. WHO Feb. 1964-77; Corresp. Nat. Acad. of Medicine, Paris; Chevalier, Légion d'honneur, Croix de guerre 1939-45, etc. *Publications:* on microbiology, epidemiology and public health administration. *Leisure interests:* music, oriental art. *Address:* 29 route de Malagnou, 1208 Geneva, Switzerland. Telephone: 35-33-71.

BERNARDINI, Gilberto, DR. PHYS.; Italian physicist; b. 20 Aug. 1906, Florence; s. of Alfredo Bernardini and Elvira Nannucci; m. Nella Magherini 1928; one s. one d.; ed. Univs. of Pisa and Florence and Kaiser Wilhelm Inst., Berlin-Dahlem; Prof. of Physics, Univ. of Bologna 1939, Univ. of Rome 1945; Research Prof. of Physics, Univ. of Ill., U.S.A. 1950; Visiting Prof., Columbia Univ. 1948-49 and 1949-50; Dir. of Research in S.C. Div. European Org. for Nuclear Research (CERN), Geneva 1957; Dir. of S.C. Div. CERN, Geneva 1958-59; Dir. of Research CERN 1960-62, Univ. of Rome 1963-64; Dir. Scuola Normale Superiore, Pisa 1964-77; Pres. Italian Inst. for Nuclear Studies; Pres. Italian Physical Soc. 1960-67; Pres. European Physical Soc. 1968-70; Vice-Pres. European Physical Soc. 1970-72; Vice-Pres. Istituto della Enciclopedia italiana; mem. Accad. Nazionale dei XL, Accad. Pugliese delle Scienze 1967; Nat. mem. Accad. Nazionale dei Lincei; mem. Accad. Bologna, Modena, Bari and La Colombaria; [illegible] Council Istituto Accademico di Roma, Fellow, American Physical Soc; Hon. Fellow, Inst. of Physics 1971; hon. degree, Univ. of Rochester, Univ. of Aachen; awarded Int. Medal Augusto Righi, Somaini Prize 1955, Presidential Gold Medal (Italy), Italian Physical Soc. Gold Medal 1969, J. T. Tate Gold Medal (U.S.A.) 1971, Presidential Gold Medal (Italy) 1978. *Leisure interests:* music, poetry. *Address:* Scuola Normale Superiore, Piazza dei Cavalieri 7, 56100 Pisa, Italy. *Telephone:* 43554.

BERNASKO, Col. Frank George, B.SC., LL.B., B.L.; Ghanaian army officer (retd.); b. 7 Dec. 1930, Cape Coast; s. of Frank George and Sophia Rosetta Bernasko; m. Esther Nyahan Aaku 1960; ed. Cape Coast Govt. Boys' School, Adisadel Coll., Univ. of Ghana, Legon, and Army School of Educ., Beaconsfield, England. Instructor Ghana Mil. Acad. 1960-62; Deputy Adjutant-Gen. Ghana Armed Forces 1962-65; Dir. of Studies Ghana Mil. Acad. 1965-66; Chair. Scholarship Review Board 1966-67; Dir. of Educ. Ghana Armed Forces 1966-72; Pres. Military Court-Martial, Port-of-Spain, Trinidad 1970-71; Regional Commr. Cen. Region 1972-73; Commr. for Agriculture 1973-75; Commr. for Cocoa Affairs Feb.-Sept. 1975; Leader, Action Congress Party 1979-; Vice-Pres. World Food Congress, Rome 1974; now in private legal practice. *Leisure interests:* music, athletics, voluntary work. *Address:* P.O. Box 9271, Airport Branch Post Office, Accra, Ghana. *Telephone:* 22539 (Office); 29288 (Home).

BERNÁTH, Aurél; Hungarian painter and writer on art; b. 13 Nov. 1895, Marcali, Somogy; s. of Dr. Béla Bernáth and Attala Roboz; m. Alice Pártos 1927; one d.; ed. grammar school, Budapest, Nagybánya Art School, Vienna, Berlin, Italy, France, U.K., etc.; Prof., Coll. of Fine Arts 1945-69; works in many public and private collections in Hungary and abroad; Kossuth Prize 1948, 1970, Eminent Artist of Hungarian People's Repub. 1964, Banner Order of the Hungarian People's Republic 1975. *Most prominent works:* Riviera, Morning, Mother and Child, Violin, The Luncheon, The Kovács Family, On the Balcony, Portrait of Lörinc Szabó, The History, State of the Worker, Tragedy of Man, Midsummer Night's Dream. *Publications:* Irások a müvészetröl, A Múzsa Körül (essays on art), Igy Éltünk Pannoniában (novel), Utak Pannóniából (novel) 1960, A Muzsa Udvarában (essays on art) 1966, Gólyáról, Helgáról haláról (novel), Kisebb világok (essays) 1974, Feljegyzések éjfél körül (essays) 1976. *Leisure interests:* music, literature. *Address:* Stollár Béla u. 4, 1055 Budapest V, Hungary. *Telephone:* 325-524.

BERNER, Endre Qvie, DR. TECHN.; Norwegian chemist; b. 24 Sept. 1893, Stavanger; s. of Endre Berner and Anna Marie Giemre; m. 1st Nathalia Adelaide Weidemann 1922 (deceased); two s. one d.; 2nd Erna Gay 1935; one d.; ed. State Univ. of Technology at Trondheim; Lecturer in Organic Chemistry, Trondheim 1922-33; Prof. of Chemistry, Univ. of Oslo 1934-61; mem. Norwegian Chemical Society (Chair. Trondheim Div. 1931-33, Chair. Oslo Div. 1939-40, Pres. 1946-50, Hon. mem. 1966), Royal Norwegian Society of Sciences, Norwegian Acad. of Science, Royal Swedish Acad. of Eng. Sciences, Chemical Soc. London, Royal Soc. of Arts; hon. foreign mem. Soc. of Chemical Industry; Vice-Pres. Int. Union of Chem. 1951-55; Order of St. Olav (1st Class) 1969. *Publications:* Textbook of Organic Chemistry (in Norwegian) 6th edn. 1964, and many scientific papers. *Leisure interests:* angling, stamps. *Address:* Gyldenlovesgate 13, Oslo 2, Norway.

BERNHARD LEOPOLD FREDERIK EVERHARD JULIUS COERT KAREL GODFRIED PIETER, H.R.H. Prince (*see* under Netherlands).

BERNSTEIN, Baron (Life Peer), cr. 1969, of Leigh; **Sidney Lewis Bernstein,** LL.D.; British business executive; b. 30 Jan.

1899; a founder, Film Soc. 1924; mem. Middx. County Council 1925-31; Films Adviser, Ministry of Information 1940-45; Liaison, British Embassy, Washington 1942; Chief, Film Section, Allied Forces HQ, N. Africa 1942-43; Chief, Film Section, SHAEF 1943-45; Chair. Granada Group Ltd. 1934-; Gov. Sevenoaks School 1964-74; lectured on Film and Int. Affairs, New York and Yale Univs.; mem. Nuffield Foundation Resources for Learning Consultative Cttee. 1965-72. *Address:* 36 Golden Square, London, W1R 4AH (Office); Coppings Farm, Leigh, Tonbridge, Kent, TN11 8PN, England (Home).

BERNSTEIN, Leonard; American conductor, composer and pianist; b. 25 Aug. 1918, Lawrence, Mass.; s. of Samuel J. and Jennie (Resnick) Bernstein; m. Felicia M. Cohn 1951 (died 1978); one s. two d.; ed. Boston Latin School, Harvard Univ. and Curtis Inst. of Music; Asst. at Berkshire Music Center 1942, mem. of Faculty 1948-55, Head, Conducting Dept. 1951-55; Asst. Conductor New York Philharmonic Symphony 1943-44; Dir. New York City Symphony 1945-48; Musical Adviser Israel Philharmonic Orchestra 1948-49, Prof. of Music, Brandeis Univ. 1951-56; Co-conductor New York Philharmonic 1957-58, Musical Dir. 1958-69, Laureate Conductor for Life; conducted with leading orchestras of America and in the capitals of Europe; music lectures on "Omnibus" television programme 1954-62; Dir. New York Phil. Young People's Concerts on nationwide television 1958-71; tours in S. America, Europe, Near East and U.S.S.R.; Pres. English Bach Festival 1972-; Charles Eliot Norton Prof. of Poetry, Harvard Univ. 1972-73; TV Acad. Award (for Young Peoples Concerts) 1960, (for Outstanding Classical Music Programme) 1976. *Compositions:* Clarinet Sonata 1942, Seven Anniversaries for Piano 1942, Hate Music (song cycle) 1943, Symphony No. 1— Jeremiah 1943, Fancy Free (ballet) 1943, On the Town 1945, Facsimile (ballet) 1946, Four Anniversaries for Piano 1948, Symphony No. 2—The Age of Anxiety 1949, Trouble in Tahiti (one-act opera) 1952, Wonderful Town 1953, On the Waterfront 1954 (film score), Serenade for Violin, Strings and Percussion 1954, Candide 1956, West Side Story 1957, Symphony No. 3—Kaddish 1963, Chichester Psalms (for chorus and orchestra) 1965, Mass: A Theatre Piece for Singers, Players and Dancers 1971, Dybbuk (ballet) 1974, Songfest, Slava!, Three Meditations from Mass 1977 and other scores for stage and songs. *Publications:* The Joy of Music 1959, Leonard Bernstein's Young People's Concerts for Reading and Listening 1962, The Infinite Variety of Music 1968, The Unanswered Question 1976. *Address:* 1414 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

BERNSTEIN, Richard Barry, PH.D.; American professor of physical chemistry; b. 31 Oct. 1923, New York; s. of Simon and Stella Grossman Bernstein; m. Norma B. Olivier 1948; one s. three d.; ed. Columbia Coll. (N.Y.) and Columbia Univ. (N.Y.); Asst. Prof. Ill. Inst. of Technology (Chicago) 1948; Asst. Prof., Assoc. Prof., Prof. Univ. of Michigan 1953-63; Prof. Univ. of Wis. 1963-, W. W. Daniells Prof. 1966-73; W. T. Doherty Prof. of Chemistry and Prof. of Physics, Univ. of Tex. 1973-77; Higgins Prof. of Natural Science, Columbia Univ.; Chair. Office of Chem. and Chem. Tech., Nat. Research Council of Nat. Acad. of Sciences 1974-; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences, American Acad. for the Advancement of Science, American Physical Soc.; A. P. Sloan Fellowship 1956; Nat. Science Foundation Senior Post-doctoral Fellowship 1960; Editor, Chemical Physics Letters. *Publications:* Molecular Reaction Dynamics (with R. D. Levine) 1974, and numerous scientific articles (particularly on molecular collisions) 1947-. *Leisure interest:* music. *Address:* Department of Chemistry, Columbia University, New York, N.Y. 10027, U.S.A. *Telephone:* (212) 280-2017.

BERNSTEIN, Robert Louis; American publisher; b. 5 Jan. 1923, New York City; s. of Alfred and Sylvia Bernstein; m. Helen Walter 1950; three s.; ed. Harvard Univ.; U.S. Army Air Force 1943-46; with Simon & Schuster (book publishers) 1946-57, Gen. Sales Man. 1950-57; Random House Inc. 1958-, Vice-Pres. (Sales) 1961-63, First Vice-Pres. 1963-65, Pres. and Chief Exec. Officer 1966, Chair. 1975; Vice-Chair. Assn. of American Publrs. 1970-72, Chair. 1972-73; Chair. Assn. of American Publrs.' Cttee. on Soviet-American Publishing Relations 1973-74, on Int. Freedom to Publish 1975; Vice-Pres. and Dir. Int. League for Human Rights 1977; mem. Council on Foreign Relations, Nat. Advisory Cttee. Amnesty Int.; mem. Board, Blythedale Children's Hospital, Writers and Scholars Int. and Tougaloo Col., Jackson; mem. Board of Visitors, City Coll., City Univ., New York; mem. Soc. of Fellows, New York Univ. *Leisure interests:* skiing, tennis, swimming. *Address:* Random House, Inc., 201 East 50th Street, New York, N.Y. 10022 (Office); 20 Murray Hill Road, Scarsdale, N.Y., U.S.A. (Home). *Telephone:* (212) 572-2276 (Office). (914) 723-9126 (Home).

BERRADA, Abdeslam, DIP.SC.AGR.; Moroccan agronomist; b. 3 Oct. 1931, Fez; ed. secondary schools, Fez, Ecole Nat. d'Agriculture de Grignon, Ecole Nat. des Eaux et Forêts, Nancy, France; several posts in Waters and Forests Admin., subsequently Dir. 1965; Sec.-Gen. Ministry of Agriculture and Agrarian Reform 1971-72, Minister 1972-74; Exec. Vice-Pres. Soc. Cellulose du Maroc 1972-; [illegible]p. to numerous regional and int. confs. *Address:* c/o Ministère de l'Agriculture et de la Réforme Agraire, Rabat, Morocco.

BERRILL, Sir Kenneth, K.C.B., B.SC.(ECON.), M.A.; British economist; b. 28 Aug. 1920, London; s. of Stanley Berrill and Lilian Blakeley; m. 1st June Phillips 1950 (divorced 1976), one s. one d.; m. 2nd Jane Marris 1977; ed. London School of Econs. and Trinity Coll., Cambridge; H.M. Treasury (Cen. Econ. Planning Staff) 1947-49; Lecturer in Econs., Cambridge Univ. 1949-69; Prof. M.I.T. 1962; Special Adviser, H.M. Treasury 1967-69; Brit. Nat. Comm. for UNESCO 1967-70; Gov. Admin. Staff Coll. Henley 1969-; mem. Council for Scientific Policy 1969-72; Chair. Univ. Grants Cttee. of G.B. 1969-73; mem. Advisory Board for Research Councils 1972-73, 1976-; mem. Advisory Council for Applied Research and Devt. 1977-; apptd. Head of Govt. Econ. Service and Chief Econ. Adviser to H.M. Treasury 1973-74; Dir. Cen. Policy Review Staff, Cabinet Office 1974-; mem. Advisory Board, Royal Coll. of Defence Studies 1974-; Gov. Admin. Staff Coll., Henley; sometime Econ. Adviser to OECD, IBRD, Guyana, Cameroon, Turkey; City Councillor, Cambridge 1964-69; Hon. Fellow (L.S.E., King's Coll. and St. Catharine's Coll., Cambridge, Chelsea Coll., London); Hon. LL.D. (Bath, Cambridge, East Anglia, Leicester), Hon. D.Univ. (Open Univ.), Hon. D.Tech. (Loughborough), Hon. Sc.D. (Aston). *Leisure interests:* skiing, hill walking, theatre. *Address:* Cabinet Office, 70 Whitehall, London, SW1A 2AS, England.

BERRILL, Norman John, F.R.S., F.R.S.C., PH.D., D.SC.; Canadian zoologist; b. 28 April 1903; ed. Bristol and London Univ.; Lecturer in Zoology, Univ. of London 1925-27; Lecturer in Physiology, Univ. of Leeds 1927-28; Asst. Prof. in Zoology, McGill Univ. Montreal 1928-31, Assoc. Prof. 1931-46, Chair. Dept. of Zoology 1937-47, Strathcona Prof. of Zoology 1947-65, Research Assoc. 1965; Lecturer in Biology, Swarthmore Coll., Pa. 1969. *Publications:* The Tunicata 1951, The Living Tide 1951, Journey into Wonder 1952, Sex and the Nature of Things 1953, Man's Emerging Mind 1955, The Origin of Vertebrates 1955, You and the Universe 1957, Growth, Development and Pattern 1961, Worlds Apart 1965, Biology in Action 1966, Inherit the Earth 1966, Life of the Ocean 1966, The Person in the Womb 1968, Life of the Sea Islands 1969, Developmental Biology 1971, Animals in Action 1972. *Address:* Swarthmore College, Swarthmore, Pa. (Office); 410 N. Swarthmore Avenue, Swarthmore, Pa. 19081, U.S.A. (Home). *Telephone:* (215) 544-1762.

BERRY, Charles A., M.D.; American physician; b. 17 Sept. 1923, Rogers, Arkansas; s. of George Valentine Berry and Vera Helen Whitmore; m. Addella (Dell) Nance Berry 1944; one s. two d.; ed. Univ. of California and Harvard School of Public Health; Air Force positions, including Aviation Medicine Residency Training Program, and Chief of Dept. of Aviation Medicine at School of Aviation Medicine, Randolph Air Force Base, Texas 1951-59; Chief, Flight Medicine Branch, U.S.A.F. Office of Surgeon-Gen. 1959-62; Chief Center Medical Operations Office, NASA Manned Spacecraft Center 1962-66; Dir. of Medical Research and Operations, NASA Manned Spacecraft Center May 1966-; Dir. of Life Sciences, NASA 1971-74; Prof., Chair. Dept. of Aerospace Medicine, Univ. of Tex. Medical Branch, Galveston, Clinical Prof. of Aerospace Medicine, Univ. of Tex. School of Public Health, Houston; Pres. Univ. of Tex. Health Science Center 1974-77; Pres. Aerospace Medical Assn. 1969-70, mem. many medical and other socs.; Hon. Fellow, American Heart Assn. 1974; Arnold D. Tuttle Award, Aerospace Medical Assn., Gold Medal, American Coll. of Chest Physicians, Gold Medal, Czechoslovak Acad. of Medicine, Daniel and Florence Guggenheim Int. Astronautics Award 1969, American Coll. of Surgeons Annual Award 1970, NASA Distinguished Service Award 1973, Hermann Oberth Award 1974, Cedars of Lebanon Award 1974, and many others. *Leisure interests:* fishing, tennis, violin. *Address:* 10814 River View Drive, Houston, Tex. 77042, U.S.A. (Home).

BERRY, Walter; Austrian baritone singer; b. [illegible] April 1929, Vienna; s. of Franz Berry and Hilde Jelinek; m. 1st Christa Ludwig (q.v.) 1957 (divorced 1970), one s.; m. 2nd Brigitte Hohenecker 1973; ed. Vienna School of Engineering and Vienna Music Acad.; student mem. Vienna State Opera 1950-53, ordinary mem. 1953-; awarded title Kammersaenger by Austrian Govt. 1963; Guest singer at openings of opera houses in Vienna, Munich, Berlin, Tokyo, New York (Metropolitan Opera), at festivals in Salzburg, Munich, Aix-en-Provence, Lucerne, Netherlands, Stockholm, Saratoga; appear[illegible] in New York, Chicago, Buenos Aires, Tokyo, Paris, Berlin, Munich, etc.; Prizes from Music Concourses in Vienna, Verviers

and Geneva. Roles include: Wozzeck, Ochs von Lerchenau, Barak, Olivier, Escamillo, Pizarro, Telramund, Klingsor, Wotan, Amonasro, Scarpia, Figaro, Guglielmo, Leporello. *Leisure interests:* listening to and taping music, yachting, swimming, archaeology, photography. *Address:* c/o Music and Arts SA, Tobelhofstrasse 2, CH-8044 Zürich (Office); 6008 Lucerne, Seefeldstrasse 11, Switzerland (Home). *Telephone:* 47-19-88 (Office); 23-40-79 (Home).

BERS, Lipman, DR.RER.NAT.; American (naturalized 1949) mathematician; b. 22 May 1914, Riga, Latvia; s. of I. A. and Bertha (née Weinberg) Bers; m. Mary Kagan 1938; one s. one d.; ed. Univs. of Zurich, Latvia and Prague; research instructor, Brown Univ. 1942-45; Asst. Prof., later Assoc. Prof. Syracuse Univ. 1945-50; mem. Inst. for Advanced Study 1948-50; Prof. New York Univ. 1950-64, Chair. Grad. Dept. Mathematics 1959-64; Prof. Columbia Univ., New York 1964-, Chair. Dept. Maths. 1972-75, Davies Prof. of Maths. 1975-; Pres. American Mathematical Soc. 1974-76; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences. *Publications:* Mathematical Aspects of Gas Dynamics 1958, co-author (with F. John and M. Schechter) Partial Differential Equations 1967, Calculus 1969 (2nd edn. with F. Karal 1976), numerous research papers. *Address:* Department of Mathematics, Columbia University, New York, N.Y. 10027, U.S.A.

BERSON, Jerome Abraham, M.A., PH.D.; American professor of chemistry; b. 10 May 1924, Sanford, Fla.; s. of Joseph and Rebecca Bernicker Berson; m. Bella Zevitovsky 1946; two s. one d.; ed. City Coll. of New York, Columbia and Harvard Univs.; Assistant Prof., Univ. of Southern Calif. 1950-53, Assoc. Prof. 1953-58, Prof. 1958-63; Prof., Univ. of Wis. 1963-69, Yale Univ. 1969-; Chair. Dept. of Chemistry, Yale Univ. 1971-74; Sherman Fairchild Distinguished Scholar, Calif. Inst. of Tech. 1974-75; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Nat. Research Council Post-doctoral Fellow; American Chem. Soc. (Calif. Section) Award 1963, James Flack Norris Award in Physical Organic Chemistry 1978. *Publications:* scientific papers on organic chemistry published mostly in Journal of the American Chemical Society. *Leisure interests:* hiking, squash. *Address:* Department of Chemistry, Yale University, New Haven, Conn. 06520, U.S.A. *Telephone:* (203) 432-4525.

BERTAUX, Pierre, DR. ÈS L.; French civil servant; b. 8 Oct. 1907, Lyon; s. of Felix and Céline (née Piquet) Bertaux; m. Denise Supervielle 1935; three s.; ed. Ecole Normale Supérieure, Paris and Berlin Univs.; Dir. of Spoken Word, Radiodiffusion d'Etat 1934-36; Personal Sec. at Ministries of Foreign Affairs and Education 1936-37; Prof. Faculty of Arts, Rennes; Prof. Faculty of Arts, Toulouse 1938-39; served French Army 1939-40; active in Resistance Movement; Commr. of the Republic, Toulouse 1944-46; Dir. of Secretariat of Minister of Transport and Public Works 1946-47; Prefect of Rhone 1947-48; Insp.-Gen. of Administration 1948-49; Dir.-Gen. of Sûreté Nationale 1949-51; Senator of French Sudan 1953-55; Pres. and Dir.-Gen. Acrow-France 1955-58; Prof. Univ. Lille 1958-64, Prof. Sorbonne, Paris 1964-; Dir. Inst. d'Allemand, Asnières; Expert, OECD-UNESCO; mem. Akademie der Künste, West Berlin; Corresp. mem. Akademie der Künste der D.D.R.; Officer de la Légion d'honneur, Compagnon de la Libération, Grand Officier Orange-Nassau, Commdr. Nordstjarnoorden, Commdr. Order of Dannebrog, Heinrich Heine-Preis der Stadt Düsseldorf 1975. *Publications:* Hoelderlin 1936, Allemagne de Guillaume II 1962, Geschichte Afrikas 1962, Mutation der Menschheit 1963, Bertaux-Lepointe Dictionaries 1967-68, Hölderlin und die französische Revolution 1969, Civilisation urbaine 1971, Libération de Toulouse 1973, L'Afrique, de la préhistoire à l'époque contemporaine 1974. *Leisure interest:* futurology. *Address:* 106 rue Brancas, 92 Sèvres, France. *Telephone:* Paris 027-0023.

BERTHOIN, Georges Paul, L. EN D., L. ÈS SC.; French civil servant; b. 17 May 1925, Nérac; s. of Jean Berthoin and Germaine Mourgnot; m. 1st Anne W. Whittlesey, 2nd Pamela Jenkins; two s. four d.; ed. Univ. of Grenoble, Ecole des Sciences Politiques, Paris and Harvard and McGill Univs.; Private Sec. to Minister of Finance 1948-50; Head of Staff, Prefecture of Alsace-Lorraine-Champagne 1950-52; Principal Private Sec. M. Jean Monnet, Pres. of ECSC 1952-55; Counsellor for Information, ECSC 1955-56; Deputy Chief Rep. of ECSC in U.K. 1956; Acting Chief Rep. of Comm. of EEC 1967-68, Deputy Chief Rep. 1968-71, Chief Rep. 1971-73; Exec. mem. Trilateral Comm. 1973-75, European Chair. 1976-; Int. Chair of European Movement 1978-; Médaille militaire, Croix de guerre, Médaille de la Résistance. *Leisure interests:* art, theatre, walking, collecting objects. *Address:* 96 bis rue de Longchamp, 92200 Neuilly, France. *Telephone:* 7221054.

BERTI, Luciano; Italian art historian; b. 28 Jan. 1922, Florence; s. of Ferdinando and Ines Berti; m. Anna Maria Tinacci 1959; no c.; ed. Univ. of Florence; attached to Superintendancy of Florence 1949; arranged new museums of Casa Vasari, Arezzo 1950, Palazzo Davanzati 1955, Il Museo di Arezzo 1958, Il Museo di S. Giovanni Valdarno 1959, Museum of Verna 1961, Museum of S. Croce, Florence 1962; Dir. Museums of Arezzo, San Marco and Academy, Florence; Dir. Museo Nazionale del Bargello; Dir. Uffizi Gallery, Florence 1969-; Dir. Monuments, Pisa Gallery 1973-; Dir. of Galleries, Florence 1974; mem. Consiglio Superiore 1976; Silver Medal, Ministry of Public Educ.; Dott. Laurea in Lettere. *Publications:* Filippino Lippi 1957, Masaccio 1964 (English trans. 1967), Pontormo 1964, Pontormo disegni 1965, Il Principe dello Studiolo 1967, Il Museo tra Thanatos ed Eros 1973-74, various articles and catalogues. *Leisure interests:* history of art, museology. *Address:* Galleria degli Uffizi, Piazzale degli Uffizi, Florence (Office); Via Giusti 6, Florence, Italy (Home). *Telephone:* 57-73-29 (Home).

BERTOLA, Giuseppe M., D.ENG.; Swiss electrical engineer and business executive; b. 7 May 1910, Vacallo; s. of Giovanni Bertola and Aida Agustoni; m. Maria Giussani 1935; four d.; ed. Milan School of Eng.; Eng. Dept., Brown Boveri Baden, Switzerland 1933, Sales Dept. 1944-45, Sales Man. 1952-62, Man. Dir. 1962-76; with various electro-mechanical firms in Germany, Italy and U.S.A. 1934-43; worked for Brown Boveri in Latin America 1945-58; mem. Man. Cttee. Brown Boveri Group 1970-76; Head of Brown Boveri Int. 1970-76; mem. Board BBC Brown Boveri e Cy. Ltd., TIBB (Milan), Banca Svizzera Italiana, Board Union Bank of Switzerland; Chair. Board Chambre de Commerce Latino-Américaine, Soc. Suisse pour l'Industrie Horlogère (SSIH) 1975-. *Leisure interests:* books, golf. *Address:* Société Suisse pour l'Industrie Horlogère (SSIH), CH 2500-Bienne 4 (Office); Zürichbergstrasse 130, CH 8044-Zürich, Switzerland (Home). *Telephone:* 032 42 14 87 (Office); 01 32 88 83 (Home).

BERTOLDI, Luigi; Italian politician; b. 31 Jan. 1920, San Candido, Bolzano; mem. Cen. Cttee. Partito Socialista Italiano (Italian Socialist Party) 1951; Vice-Sec. PSI; mem. Chamber of Deputies 1958-; Provincial Sec. Partito Socialista Unificato (Socialist Fed.), Verona; Pres. Socialist Parl. Group 1970; Minister of Labour and Social Security 1973-74; Socialist. *Address:* c/o Ministry of Labour and Social Security, Rome, Italy.

BERTOLI, H.E. Cardinal Paolo; Vatican diplomatist; b. 1 Feb. 1908, Poggio Garf (Lucca); s. of Carlo and Aride Poli; ordained priest 1930; Sec. Apostolic Nunciature, Belgrade 1933-38, France 1938-42; Chargé d'affaires a.i., Antilles Apostolic Nunciature, Port-au-Prince, Haiti 1942-46; Counsellor, Apostolic Nunciature, Berne 1946-52; Head of Mission of Emigration to South America; Titular Archbishop of Nicomedia 1952; Apostolic Del. in Turkey 1952-53, Apostolic Nuncio in Colombia 1953-59, in Lebanon 1959-60; France 1960-69; Prefect of Congregation for the Causes of Saints 1969-73; cr. Cardinal 1969. *Address:* Piazza della Città Leonina 1, 00193 Rome, Italy. *Telephone:* 657312.

BERTOLUCCI, Bernardo; Italian film director; b. 16 March 1940, Parma; s. of Attilio Bertolucci; worked with Pier Paolo Pasolini on Accattone; directed: La Commare Secca 1962, Prima della Rivoluzione 1964, Il Fico Infruttuoso in Vangelo 70 1968, Partner 1970, La Strategia del Ragno 1970, Il Conformista 1970, Last Tango in Paris 1972, 1900 1975. *Publications:* In cerca del mistero (poems) 1962 (Viareggio Prize 1962). *Address:* Via del Babuino 51, Rome, Italy.

BERUTOWICZ, Włodzimierz; Polish lawyer and politician; b. 3 Oct. 1914, Przedmość, Wieluń district; ed. Wrocław Univ.; fmr. Chief Justice, Voivodship Court of Justice, Poznań and Wrocław; Chair. Dept. of Law and Civil Procedure, Wrocław Univ., Rector, Wrocław Univ. 1968-74; Minister of Justice 1971-76; Chair. Legis. Council 1972-76; First Pres. of Supreme Court 1976-; Prof., Acad. of Internal Affairs, Warsaw 1976-; mem. Cen. Cttee. of Party Control, Polish United Workers' Party (PUWP); mem. Polish Lawyers' Assen.; Order of Banner of Labour (1st and 2nd Class), Commdr. Cross of Order of Polonia Restituta and other decorations. *Publications:* Principles of Party Presentation in Civil Procedure 1957, Juridical Importance of the Assertion of Claims in Civil Proceeding 1966, Outline of Civil Procedure 1974, 1978 and over eighty articles on civil procedure, policy of justice and legislative policy. *Address:* Sąd Najwyższy, ul. Orgrodowa 6, 00-958, Warsaw, Poland.

BESCHEV, Boris Pavlovich; Soviet politician; b. 30 July 1903; ed. Leningrad Inst. of Railway Engineers; engineer on October Line 1935-36; Dir. Orjonikidze Line (Northern Caucasus) 1937-40; Dir. October Line (Leningrad) 1940; Dir. Dept. of N.W. Lines and Dir. Kuibyshev Line 1941-44; Deputy People's Commissar and subsequently Deputy Minister of Railways 1944-48; Minister of Railways of U.S.S.R. 1948-77; Deputy, U.S.S.R. Supreme Soviet 1954-; mem.

Cen. Cttee. of CPSU 1952-; awarded Order of Lenin (six times), Order of the Red Banner of Labour, Hero of Socialist Labour, Hammer and Sickle Gold Medal and other decorations. *Address:* c/o Ministry of Railway Transport, 2 Novo-Basmannaya ulitsa, Moscow, U.S.S.R.

BESSEMOULIN, Jean; French meteorologist; b. 18 March 1913, Garches (Hauts-de-Seine); s. of Octave and Augustine (née Chasserat) Bessemoulin; m. Jeanne Lapeyre 1941; two s. one d.; ed. Univ. de Paris à la Sorbonne and Univ. de Nancy; Nat. Meteorological Office 1935-; Head successively of Banne d'Ordanche, Nancy and Clermont-Ferrand Meteorological Stations; Head S.E. Meteorological Region 1942-45; Head, Forecast Division, Service Météorologique Métropolitain 1945-58, Asst. Dir. 1958-61; Asst. to Dir. of Nat. Meteorology 1961-64, Dir. of Nat. Meteorology 1964-75; Principal Del. of France to the Fourth, Fifth and Sixth Congresses of the World Meteorological Org.; mem. Exec. Cttee., WMO 1964-71, Second Vice-Pres. 1971-; mem. numerous WMO Cttees. and Meteorological Socs.; Commdr., Légion d'honneur, Croix de guerre avec palme, and other decorations. *Address:* Météorologie Nationale, 73 rue de Sèvres, 92100 Boulogne, France. *Telephone:* 604-91-51.

BESSIS, Marcel Claude; French research haematologist; b. 15 Nov. 1917, Tunis; s. of Victor and Camilla (née Nahum) Bessis; m. Claude Perrot 1952; three d.; ed. Lycée Janson de Sailly and Univ. de Paris (School of Medicine); Dir. of Research Lab. of Nat. Centre for Blood Transfusion 1947-65; Prof. Faculty of Medicine, Paris 1963; Dir. Inst. Pathologie Cellulaire, Bicêtre Hospital 1966-; mem. Nat. Cttee. for Scientific Research 1964-; Laureate Acad. des Sciences et de Médecine; Editor Nouvelle Revue française d'Hématologie 1946-, Editor-in-Chief Blood Cells 1975-; Hon. mem. Harvey Soc. 1963, Hon. Fellow, American Coll. of Physicians; Prix du Commissariat de l'énergie atomique 1978; Chevalier Légion d'honneur, Officier de l'Ordre nationale du Mérite. *Publications:* Cytology of Blood and Blood-forming Organs 1956, Living Blood Cells and their Ultra-structure 1973, Corpuscles 1974, Blood Smears Reinterpreted 1977. *Address:* Institut de Pathologie Cellulaire, Hôpital Bicêtre, 94 Kremlin-Bicêtre, Paris (Office); 2 rue Saint Simon, 75007 Paris, France. (Home). *Telephone:* 588-6195 (Office); 548 48-74 (Home).

BESSMERTNOVA, Natalya Igorevna; Soviet ballet dancer; b. 19 July 1941; ed. Bolshoi Theatre Ballet School; artiste of Bolshoi Theatre Ballet 1961-; Award of Merit R.S.F.S.R. Important roles include: Mazurka and 7th Valse (Chopiniana), Pas de trois (Swan Lake), variations (Baiadere), Giselle (Giselle), The Muse (Paganini, music by Rachmaninov), Florin (Sleeping Beauty), Leila (Leila and Medjnun, by Balasanyan), Shirin (Legend of Love), Odette-Odile (Swan Lake), Girl (Le Spectre de la Rose), Maria (The Fountain of Bakhtchisaray), Frigina (Spartacus), Juliet (Romeo and Juliet). *Address:* State Academic Bolshoi Theatre of U.S.S.R., 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

BESTOR, Arthur Eugene, M.A., PH.D., LL.D.; American historian; b. 20 Sept. 1908, Chautauqua, N.Y.; s. of Arthur Eugene Bestor and Jeanette Louise (Lemon) Bestor; m. 1st Dorothea Nolte 1931 (divorced), 2nd Anne Carr 1939 (deceased), 3rd Dorothy Alden Koch 1949; three s.; ed. Yale Univ.; instructor, Yale 1930-31, 1934-36; Asst. Prof. Columbia Univ. 1937-42; Asst. Prof. Humanities, Stanford Univ. 1942-45, Assoc. Prof. History 1945-46; Assoc. Prof. of History, Univ. of Ill. 1947-51, Prof. 1951-62; Guggenheim Fellow 1953-54, 1961-62; Harmsworth Prof. of American History, Oxford Univ. 1956-57; Prof. of History, Univ. of Wash. 1962-77, Emer. Prof. 1976-; Visiting Lecturer, Univ. of Wis. 1947; Fulbright Visiting Prof., Univ. of Tokyo 1967; mem. American Historical Assn. (Pres. Pacific Coast Br. 1975-76), Org. of American Historians, Ill. State Historical Soc. (Pres. 1954-55), Council for Basic Educ. (Pres. 1956-57); fmr. mem. American Studies Assn., Univ. Centers for Rational Alternatives; Beveridge Prize of American Historical Assn. 1946. *Publications:* Education and Reform at New Harmony 1948, Backwoods Utopias 1950 (revised edn. 1970), Problems of American History (jointly) 1952 (4th edn. 1972), Educational Wasteland 1953, The Restoration of Learning 1955, Three Presidents and Their Books 1955 (jointly), State Sovereignty and Slavery 1961, The American Civil War as a Constitutional Crisis 1964, The American Territorial System 1973 (jointly), Separation of Powers in the Domain of Foreign Affairs 1974. *Leisure interests:* walking, photography. *Address:* Department of History, University of Washington, Seattle, Wash.; 4553 55th Avenue, N.E., Seattle, Wash. 98105, U.S.A. *Telephone:* (206) LA4-4202.

BESWICK, Baron (Life Peer), cr. 1964; **Frank Beswick,** P.C., J.P.; British politician and aerospace expert; b. 1912; m.; one s. one d.; Mem. of Parl. for Uxbridge div. of Middx. 1945-59; Chair. Parl. Labour Party Civil Aviation Sub-Cttee. 1951-59; Parl. Under-Sec. Ministry of Civil Aviation 1950-51; Dir. Derby Aviation Ltd. 1952-60; Lord-in-Waiting 1964-65; Parl. Under-Sec. of State, Commonwealth Relations Office 1965-67; Capt. Hon. Corps of Gentlemen at Arms and Govt. Chief Whip, House of Lords 1967-70, Deputy Leader 1974-75; Special Adviser, British Aircraft Corpn. 1970-74; Minister of State, Dept. of Industry 1974-75; Chair. British Aerospace Organizing Cttee. 1975-76, British Aerospace 1977-; Vice-Pres. British Airline Pilots Assn. 1965-78, Pres. 1978-; Mem. Supervisory Bd. Airbus Industries 1979-; Companion Royal Aeronautical Soc. 1977. *Address:* British Aerospace, Brooklands Road, Weybridge, Surrey. England.

BETANCOURT, Rómulo; Venezuelan politician; b. 22 Feb. 1908; ed. Univ. de Caracas; imprisoned while still a student by the Vicente Gómez regime; exiled to Colombia; returned to Venezuela to lead anti-Communist underground left-wing movement 1936; again in exile 1939-41; organized Acción Democrática 1941-; Pres. Revolutionary Governing Junta on overthrow of Medina Angarita 1945; forced again into exile by Pérez Jiménez regime 1948-58; Pres. of Venezuela 1959-64. *Publication:* El petróleo de Venezuela. *Address:* Acción Democrática, Edif. no. 4, Calle Los Cedros, La Florida, Caracas, Venezuela.

BETANCUR, Belisario; Colombian politician; b. 1923, Amagá, Antioquia; m.; one s., two d.; Member House of Reps.; fmr. Senator; Conservative Party Presidential Candidate 1962, 1970, 1978; Minister of Labour 1963; Amb. to Spain 1974. *Address:* c/o Partido Conservatur, Bogotá, Colombia.

BETANCUR-MEJIA, Dr. Gabriel; Colombian international civil servant; b. 26 April 1918, Bogotá; m. Yolanda Pulecio 1959; two d.; ed. Univ. Javeriana, Bogotá, Syracuse Univ., U.S.A., and School of Advanced International Studies, Washington; fmr. Sec. of Tech. and Econ. Affairs to Pres. of Colombia; fmr. Founder and Dir. Colombia Inst. for Advanced Training Abroad (ICETEX); Prof. of Finance and Int. Trade; fmr. Chair. Special Comm. for Programming and Devt. of Education, Science and Culture in Latin America, OAS; fmr. Dir.-Gen. Colombian Assn. of Univs.; Asst. Dir.-Gen. of UNESCO (in charge of educational activities) 1963-66; Minister of Educ., Colombia 1955-56, 1966-68; mem. Exec. Board UNESCO 1970-75, Vice-Chair. 1972-74; Pres. Int. Conf. Educ., Geneva 1970. *Leisure interest:* golf. *Address:* 40 avenue Foch, Paris 75016, France; Apdo. Aéreo 6113, Bogotá, D.E., Colombia. *Telephone:* KLE 35-94.

BETHE, Hans Albrecht, PH.D.; Alsatian-born American physicist; b. 2 July 1906; m. Rose Ewald 1939; one s. one d.; ed. Goethe Gymnasium (Frankfurt/Main), and Frankfurt/Main and Munich Univers. Lecturer German Univs. 1928-33, Manchester and Bristol Univs. (England) 1933-35; Asst. Professor Cornell Univ. 1935-37, Prof. 1937-; Dir. Theoretical Physics Div. Los Alamos Scientific Laboratory 1943-46; mem., President's Science Advisory Cttee. 1956-59; mem. American Philosophical Soc., Nat. Acad. of Sciences, American Physical Soc. (Pres. 1954), American Astronomical Soc.; foreign mem. Royal Soc. (London); Presidential Medal of Merit 1946, Max Planck Medal 1955, Enrico Fermi Award 1961, Nobel Prize for Physics 1967. *Publications:* Elementary Nuclear Theory 1947, Mesons and Fields 1955, Intermediate Quantum Mechanics 1964, 1968; contributions to Handbuch der Physik 1933, 1957, Review of Modern Physics 1936-37, etc., and to scientific journals. *Address:* Laboratory of Nuclear Studies, Cornell University, Ithaca, N.Y. 14853, U.S.A.

BETJEMAN, Sir John, Kt., C.B.E.; English poet and author; b. 28 Aug. 1906; ed. Marlborough and Magdalen Coll., Oxford. Heinemann Award; Duff Cooper Award; William Foyle Poetry Prize (twice); Queen's Medal for Poetry 1960; C.Lit.; Poet Laureate 1972–; Mem. British Noise Abatement Soc.; Hon. Fellow, Keble Coll., Oxford 1972; Albert Medal, Royal Soc. of Arts 1973; Hon. D.Lit. 1974. *Publications:* Mount Zion, Ghastly Good Taste, Continual Dew, An Oxford University Chest, Antiquarian Prejudice, Old Lights for New Chancels, Selected Poems, First and Last Loves, A Few Late Chrysanthemums, The English Town in the Last Hundred Years, Collected Poems, Summoned by Bells (autobiog. in verse), English Churches (with Rev. Basil Clarke), High and Low, Victorian and Edwardian London (photographs) 1969, A Pictorial History of English Architecture, London's Historic Railway Stations 1972, Victorian and Edwardian Brighton from Old Photographs (with J. S. Gray) 1972, West Country Churches 1973, A Nip in the Air 1974, Archie and the Strict Baptists 1977, Continual Dew (collection of verse) 1977; Guides to Cornwall, Devon and (with John Piper) Shropshire, Buckinghamshire and Berkshire. *Address:* c/o John Murray Ltd., 50 Albemarle Street, London, W1X 4BD, England.

BETTELHEIM, Bruno, PH.D.; American child-psychoanalyst; b. 25 Aug. 1903, Vienna, Austria; m.; one s. two d.; ed. Univ. of Vienna; took up residence in U.S. 1939; currently Stella Rowley Prof. of Educ., Prof. of Psychology and Psychiatry at Univ. of Chicago and Dir. Univ. of Chicago Sonia Shankman Orthogenic School 1944-73, the university's residential treatment centre for severely emotionally disturbed children; has written many books on severely disturbed children, social psychology and related issues; founder mem. Nat. Acad. of Educ.; Fellow, American Psychological Assn., Orthopsychiatric Assn.; mem. Chicago Psychoanalytic Soc., Chicago Council for Child Psychiatry. *Publications include:* Love is Not Enough 1950, Symbolic Wounds 1954, Truants from Life 1955, The Informed Heart 1960, Dialogues with Mothers 1962, The Empty Fortress 1967, The Children of The Dream 1969, Obsolete Youth 1970, A Home for the Heart 1974, The Uses of Enchantment 1976, Surviving and Other Essays 1979, and numerous magazine articles. *Address:* 5725 Kenwood, Chicago, Ill. 60637, U.S.A. *Telephone:* FA-4-2688 (Home).

BETTELHEIM, Charles, D. en D., L. ès L.; French economist; b. 20 Nov. 1913, Paris; s. of Henri Bettelheim and Lucienne Jacquemin; m. Lucette Beauvallet; five c.; ed. Paris Univ. Dir. Centre for Social Studies and Int. Relations Ministry of Labour, Paris 1944-48; French rep. Conf. on Trade and Employment 1947; Prof. of Political Economy at Ecole Pratique des Hautes Etudes 1948-; Head of UN Mission for Technical Assistance to Indian Govt. 1955-56; Prof. at Ecole Nationale d'Administration; Prof. at Inst. d'Etudes du Développement Economique et Social 1958-; mem. French Sociological Inst.; Dir. of the review Problèmes de Planification and Centre d'Etudes des Modes d'Industrialisation (C.E.M.I.). *Publications:* La Planification Soviétique 1939, Les Problèmes théoriques et pratiques de la planification 46, L'économie Allemande [illegible] le Nazisme 1946, Bilan de l'économie française de 1918 à 1946 1947, Esquisse d'un tableau economique de l'Europe 1948, Initiations [illegible] recherches sur les idéologies économiques et les réalités sociales 1948, Emploi et chômage devant la théorie economique 1949, L'économie soviétique 1950, Auxerre [illegible] 1950 1950, Théories contemporaines de l'emploi 1951, Nouveaux aspects de la théorie de l'emploi 1952, Long-Term Planning Problems 1956 Foreign Trade and Planning for Economic Development 1956, Studies in the Theory of Planning 1959, Some Basic Planning Problems 1960, Teoria de la Planificación 1961, Problemas Teóricos y Prácticos de la Planificación 1962, L'Inde indépendante 1962, Planification et croissance accélérée 1964, La construction du socialisme en Chine 1965, Los Marcos Socioeconómicos y la organización de la planificación Social 1966, Problèmes théoriques et pratiques de la planification 1966, La transition vers l'economie socialiste 1968, India Independent 1968, Calcul économique et formes de propriété 1970, Révolution culturelle et organisation industrielle en Chine 1973, Les luttes de classes [illegible] U.R.S.S.—1917-1923 1974, Les luttes de classes [illegible] U.R.S.S.—1923-1930 1977. *Address:* c/o Centre d'Etudes des Modes d'Industrialisation, 54 boulevard Raspail, 75006 Paris, France. *Telephone:* 544-39 79 (extensions 220 and 225).

BETTENCOURT, André; French politician; b. 21 April 1919, Saint-Maurice-d'Etalan; s. of Victor and Jeanne-Marie (de Chalendar) Bettencourt; m. Liliane Schueller 1950; one d.; ed. Collège Saint Joseph [illegible] Havre. Gen. Counsellor for Lillebonne 1946-; Mayor, St. Maurice d'Etalan 1946-; mem. Chamber of Deputies 1951; Vice-Pres. Foreign Affairs Comm. Nat. Assembly; Sec. of State to Presidency of the Council 1954-55; Sec. of State for Transport 1966-67; Sec. of State, Ministry of Foreign Affairs 1967-68; Minister of Posts and Telecommunications May-July 1968, of Industry 1968-1969, of State Plan 1969-1972, Minister attached to Foreign Office July 1972; also Minister of Cultural Affairs a.i. 1970-71; Pres. Regional Council of Haute-Normandie 1974-; Chevalier, Légion d'honneur, Croix de guerre, Rosette de la Reśistance. *Address:* 18 rue Delabordère, 92200 Neuilly-sur-Seine, France.

BEUGEL, Ernst Hans [illegible] der: Netherlands professor of international relations and business executive; b. 2 Feb. 1918; ed. Univ. of Amsterdam. Govt. service 1945-60; Sec., Econ. Cttee. of the Cabinet, Ministry of Econ. Affairs; Dir. Bureau of the Marshall Plan, Ministry for Foreign Affairs 1947, Dir. Gen. Econ. and Mil. Aid Programme 1952; Sec. of State (Ministry of Foreign Affairs) for Foreign Affairs 1957-58; Amb. and Special Consultant to the Minister for Foreign Affairs 1959; Deputy Pres. KLM Royal Dutch Airlines 1960-61, Pres. 1961-63; now Dir. of several companies in Netherlands, U.K. and U.S.; Prof. of Int. Relations, Leiden Univ. 1966-; Vice-Chair., Netherlands Inst. for Int. Affairs; Chair. Netherlands Cancer Inst.; Grand Cross of the Oak Crown (Luxembourg), Grand Cross of the Order of Leopold II (Belgium), Knight Commdr. of the Order of St. Michael and St. George (U.K.), Grand Officer of Dannebrog (Denmark), Commdr. Légion d'honneur (France), Knight Netherlands Lion, Officer Order of Orange-Nassau. *Address:* Smidswater 1, The Hague (Office); Van Ouwenlaan 50, The Hague, Netherlands (Home). *Telephone:* 653850 (Office); 241848 (Home).

BEULLAC, Christian Justin Eugène Marie; French engineer and politician; b. 29 Nov. 1923, Marseillan; s. of Louis and Yvonne Beullac; m. Francine Bernard 1949; four c.; ed. Grand Lycée de Nice, Lycée Champollion, Grenoble; deputy Dir. of Electricity, Ministry of Industry 1949-52; Gen. Chair. Comm. on Energy 1952-54; Gen. Inspector of Industry and Commerce 1954-55; Régie Nat. des Usines 1955-57; Pres. Supervisory Council, Automobiles Berliet, Vice-Pres. Supervisory Council, la Saviem 1975-76; Minister of Labour 1976-78, of Éduc. April 1978-; Chevalier de la Légion d'honneur. *Address:* 7 avenue Albert-Bartholome, 75015 Paris, France.

BEUVE-MÉRY, Hubert, L. ès L., D. en D.; French journalist; b. 5 Jan. 1902; m. Geneviève Deloye 1928; four s.; ed. Paris Univ. Dir., Legal and Econ. Section, Institut Français de Prague 1928-39; diplomatic corresp. of Temps, Prague 1934-38; with inst. Français, Lisbon 1940-42, Dir. Nat. School, Uriage; Founder Le Monde 1944, Dir. 1944-69; writes under pseudonym "Sirius"; Gold Medal, Inst. of Journalists 1970, Golden Pen of Freedom, Int. Fed. of Newspaper Editors 1972. *Publications:* La théorie des pouvoirs publics d'après François de Vittoria et [illegible] rapports avec le droit public contemporain 1928, Vers la plus grande Allemagne 1939, Réflexions politiques 1951, Suicide de la IV[illegible] République 1958, Onze ans de règne, 1958-1969, vus par Sirius 1974. *Address:* 107 boulevard Raspail, 75006 Paris, France. *Telephone:* 548-5478.

BEUYS, Joseph; Austrian artist and sculptor; b. 12 May 1921, Kleve; s. of Joseph Beuys and Johanna Hülsermann; m. Eva Wurmbach; two c. Prof. Staatliche Kunstakademie, Düsseldorf 1961-; one-man exhbns. in galleries throughout Europe including in Kranenburg 1953, 1963, Düsseldorf 1965-66, 1969, Vienna 1966-71, Antwerp, Eindhoven 1968, Basel 1969, 1970, Lucerne, Innsbruck, Stockholm 1971. *Address:* Drakeplatz 4, 4 Düsseldorf-Oberkassel, Federal Republic of Germany.

BEVAN, Timothy Hugh; British banker; b. 24 May 1927, London; s. of Hugh Bevan and Pleasance Scrutton; m. Pamela Murray (née Smith) 1952; two s. two d.; ed. Eton; called to the Bar, Middle Temple 1950; Dir. Barclays Bank Ltd. 1966, Vice-Chair. 1968, Deputy Chair. 1973-; Dir. Barclays Bank (France) Ltd., later Barclays Bank S.A., 1965-76, Barclays Bank of Calif. 1968, Barclays Bank Int. Ltd. 1971, Chair. Barclays Bank U.K. Management Ltd. 1972, London Dir. Bank of N.S.W. 1966; Dir. Soc. Financière Européenne 1967, Commercial Union Assurance Co. Ltd. 1974-, Union Discount Co. of London Ltd. 1976-, Banque Bruxelles Lambert, S.A. 1977-. *Address:* Barclays Bank Ltd., 54 Lombard Street, London, EC3P 3AH (Office); 1 Sloane Street, London, SW1X 9LA, England (Home).

BEVERLOO, Cornelis Van; Netherlands painter; b. 1922; ed. Amsterdam Acad. of Fine Arts; co-founder, with Appel and Constant, of the experimental "Reflex" group; co-founder of "Cobra" group 1948; rep. at numerous exhibitions, including Brussels Int. Exhibition 1958, Dunn Int. Exhibition, London 1963; works under the name of "Corneille". *Address:* c/o Société des Artistes Indépendants, Grand Palais des Champs-Elysées, Cours la Reine, 75008 Paris, France.

BEWOOR, Gen. Gopal Gurunath; Indian army officer; b. 11 Aug. 1916; s. of Sir Gurunath Venkatesh and Lady Rukmini Bewoor; m. Radhika Bewoor; two s. one d.; ed. Dehra Dun Mil. Coll., Staff Coll. Quetta; commissioned 1937; Instructor Staff Coll., Quetta 1947; served 2nd Dogra Regiment 1947-48; Commdr. Infantry Brigade 1952; Dir. Personnel Services, Army H.Q. 1953; Del. to UN Gen. Assembly 1956; Commdr. Infantry Brigade 1957; promoted Maj.-Gen., Chief of Staff Western Command 1959; GOC Infantry Div. 1961; Dir. Mil. Training, Army H.Q. 1963; promoted Lieut.-Gen., Corps Commdr., Eastern Theatre 1964; Deputy Chief of Army Staff 1967; GOC (in C) Southern Command 1969-73; Chief of Army Staff 1973-75; Col. 11 Gurkha Rifles 1960-75; Amb. to Denmark 1976-78; Param Vishisht Seva Medal 1969; Padma Bhushan 1972. *Address:* c/o Ministry of Foreign Affairs, New Delhi, India.

BEZENÇON, Marcel, L. ès L.; Swiss broadcasting official; b. 1 May 1907, Orbe; s. of Ernest and Marie Bezençon-Bezuchet; m. Marthe Droguet; [illegible] s. one d.; ed. Lausanne and Vienna Univs. Journalist; Dir. Société Romande de Radiodiffusion, Radio-Lausanne 1939-50; Dir.-Gen. Société Suisse de Radiodiffusion et Télévision (Swiss Broadcasting Corpn.) 1950-72; Pres. EBU Television Programme Cttee. 1954-69; Pres. EBU 1971-; Pres. S.A. pour la publicité à la télévision 1971-; Pres. Théâtre de Lausanne; Founder

Eurovision. *Leisure interests:* fine arts, literature. *Address:* 16 chemin de Renens, Château de Valency, 1000 Lausanne, Switzerland. *Telephone:* 021-24-66-66.

BEZOMBES, Roger; French painter; b. 17 Jan. 1913; has exhibited in Paris since 1937 and taken part in most overseas exhibitions of French art; work shown in Musée d'Art Moderne and Musée des Beaux Arts (Paris) and in museums in Paris, Menton, Algiers, Oran, Rabat, Athens, Jerusalem, etc.; Prix Nat. de Peinture. Works include paintings, illustrations for Le grain de Sable 1955, lithographs; mural decorations for the steamer Ile de France and the liner France, also for apartments at the official residence of the Pres. of the Republic, etc.; tapestries executed at Aubusson, including the collection for the Maison d'Afrique, Univ. of Paris; Brussels Exhibition 1958; Metropolitan Opera N.Y. 1958; Nouvelle Maison de la Radio de Paris; Chevalier de la Légion d'honneur; Prof. Académie Julian. *Publication:* L'Exotisme dans l'art et la pensée 1954. *Address:* 3 quai Saint-Michel, 75005 Paris, France.

BHABHA, Cooverji Hormusji, M.A., B.COM., J.P.; Indian businessman; b. 22 July 1910, Bombay; s. of Hormusji Cursetjee Bhabha and Ratanbai Panday; m. Dr. Amy C. H. Bhabha 1955; one s. one d.; ed. St. Xavier's Coll. and Sydenham Coll. of Commerce, Bombay. Fellow St. Xavier's Coll. 1932-34; Fellow and Lecturer in Banking Law and Practice, Sydenham Coll. of Commerce 1932-33; J.P. 1938–; Commerce mem. Govt. of India Sept. 1946, [illegible] Works, Mines and Power Nov. 1946; Minister of Commerce, Govt. of India, 1947-48; Leader Indian del. to World Trade Conf. Havana 1947 (elected Vice-Pres. of Conf.); Chair. Indian Banks Assn. 1955-61; Dir. Investment Corpn. of India, Tata Power Co. Ltd., Tata Chemicals Ltd., Swadeshi Co. Ltd., Spencer & Co. Ltd.; Chair. Kelvinator of India Ltd., United Carbon India Ltd.; Trustee, Commerce (1935) Ltd., etc. *Address:* Commerce (1935) Ltd., Manek Mahal, 90 Veer Nariman Road, Bombay 20 (Office); 49 Cuffe Parade, Colaba, Bombay 5, India (Home). *Telephone:* 253505 (Office).

BHAGAT, Bali Ram; Indian politician; b. 1922; ed. Patna Coll. Secretary Bihar Provincial Congress Cttee. 1949; [illegible] Provisional Parl. 1950-52, Lok Sabha 1952-77, Speaker 1976-77; Parl. Sec. Ministry of Finance 1952-55; Deputy Minister for Finance 1955-63; Minister of State for Planning 1963-67, for Defence March-Nov. 1967, for External Affairs 1967-69; Minister in charge of Foreign Trade and Supply 1969-70; Minister for Steel and Heavy Industry 1970-71. *Address:* c/o Indian National Congress, 5 Dr. Rajendra Prasad Road, New Delhi, India.

BHAGAT, Dhanraj; Indian sculptor; b. 20 Dec. 1917, Lahore, Pakistan; s. of B. Hargobind and Lakshmi Done; m. Kamla Devi 1943; two s. two d.; ed. Khalsa High School and Mayo School of Arts, Lahore. Teacher, Mayo School of Arts 1939 and 1944; Lecturer in Sculpture, Delhi Polytechnic Art Dept. 1946-60, Senior Lecturer 1960-62, Asst. Prof. 1962-68, Prof. 1968-73; numerous commissions throughout India; works in stone, wood, plaster, cement and metal-sheet; ten one-man sculpture shows in India 1950-72; exhibitions abroad in London and Paris 1948, East European countries 1955 and 1958, U.S.A. 1954, German Federal Republic 1958, São Paulo 1962, South Africa 1965; mem. Lalit Kala Acad. Punjab; [illegible] Nat. Cttee. of Int. Assn. of Plastic Arts, Paris; invited to participate in first and second triennial exhbn. of World Art, New Delhi; works in Govt. Museum, Punjab, National Gallery of Modern Art, New Delhi, Lalit Kala Acad., Baroda Museum and Punjab Univ. Museum; Nat. Award of Lalit Kala Acad. 1961, State Award 1969. *Leisure interests:* reading art and philosophy books. *Address:* College of Art, 22 Harding Avenue, New Delhi; and H 20, New Delhi South Extension Part 1, New Delhi, India.

BHAGAVANTAM, Suri, M.SC.; Indian scientist and university professor; b. 1909, Gudivada, A.P.; s. of S. V. S. Sastry and S. Sitamma; m. Sitamahalakshmi 1924; four s. one d.; ed. Nizam Coll., Hyderabad and Madras Univ. Prof. of Physics and Principal Andhra Univ. until 1948; Scientific Liaison Officer, B.C.S.O. and Scientific Adviser to Indian High Commr. in U.K., London 1948-49; Prof. of Physics, Osmania Univ. 1949-52. Vice-Chancellor and Dir. Physical Labs. 1952-57; Dir. Indian Inst. of Science, Bangalore 1957-62; Scientific Adviser to Minister of Defence 1961-69; Pres. Cttee. on Science and Tech. in Developing Countries (COSTED) 1972-; Chair. Bharat Electronics Ltd., Cttee. [illegible] Org. of Scientific Research; Vice-Pres. Int. Union of Pure and Applied Physics; Dir. Hindustan Aeronautics Ltd.; Hon. D.Sc., F.N.I. and F.A.Sc. *Leisure interests:* light reading, writing. *Publications:* Scattering of Light and Raman Effect 1940, Theory of Groups and Its Application to Physical Problems 1952, Crystal Symmetry and Physical Properties 1966. *Address:* Indian Institute of Science, Bangalore 560012, India. *Telephone:* 81698.

BHANDARI, Sunder Singh, M.A., LL.B.; Indian politician; b. 12 April 1921, Udaipur, Rajasthan; s. of Dr. Sujan Singh Bhandari and Phool Bai; unmarried; ed. Sirohi, Udaipur and Kanpur. Advocate, Mewar High Court, Udaipur 1942-43; Headmaster, Shiksha Bhawan, Udaipur 1943-46; Divisional Pracharak, Rashtriya Swayamsewak Sangh, Jodhpur 1946-51: Provincial Sec. Bharatiya Jana Sangh (People's Party), Rajasthan 1951-57; All India Sec. Bharatiya Jana Sangh 1961-65, 1966-67, All India Organizing Sec. 1965-66; mem. Rajya Sabha 1966-72, 1976-; Leader, Janasangh Group in Rajya Sabha 1967-68; Gen. Sec. Bharatiya Jana Sangh 1967-77; mem. Janata Party Cen. Exec. 1977-; Deputy Leader Janata Party 1977-; mem. Panel of Farmers, Agric. Prices Comm, Sub-cttee. on Interests of Scheduled Tribes and Castes, Del. to Inter-Parl. Council session (Lisbon, Portugal) 1978. *Leisure interest:* reading. *Address:* 11 Ashoka Road, New Delhi; Panchayati Nohara, Udaipur, Rajasthan, India. *Telephone:* 383349, 387830 (New Delhi); 5244 (Udaipur).

BHARGAVA, Vashishtha, M.SC.; Indian judge; b. 5 Feb. 1906, Allahabad; s. of Chotey Lal and Manbhari Bhargava; m. Vishnu Kumari Bhargava 1925; three s.; ed. Univ. of Allahabad. Joint Magistrate 1930-35; Civil and Sessions Judge 1936-37, District and Sessions Judge 1937-47; Additional Commr. for Food and Supplies, Govt. of Uttar Pradesh 1947-48; Legal Remembrancer and Judicial Sec. 1948-49; Puisne Judge, High Court, Allahabad 1949-66, Chief Justice Feb-July 1966; Judge Supreme Court of India 1966-71; Chair. Sugar Industry Inquiry Comm. 1971-74; One-Man Comm. of Inquiry into Alleged Killings of Naxalites in Andhra Pradesh 1977. *Leisure interests:* golf, bridge, reading. *Address:* A 16/3 Vasant Vihar, New Delhi 110057, India. *Telephone:* 670057.

BHATIA, Prem Narain; Indian journalist and diplomatist; b. 1911, Lahore; s. of late H. N. D. Bhatia and late Puran Devi Bhatia; m. Shakuntala Ram 1942; two s. one d.; ed. Government Coll., Lahore, and Punjab Univ. Army Service, Second World War; Dir. of Public Information, Bengal Government 1945-46; Political Correspondent The Statesman (Calcutta and New Delhi) 1946-58; Public Relations Adviser, Indian Embassy, Moscow 1948; Editor The Tribune, Ambala 1959; Resident Editor The Times of India, Delhi 1960-62; Delhi Editor The Indian Express 1963-65; Indian corresp. The Guardian (Manchester and London); High Commr. in Kenya 1965-68, in Singapore 1969-72; Editor-in-Chief, Dir. India News and Features Alliance 1973-76. *Publications:* All My Yesterdays, Indian Ordeal in Africa. *Leisure interests:* reading, golf. *Address:* Jeevan Deep Building, Parliament Street, New Delhi, India. *Telephone:* 388511/388512 (Office); 623034 (Home).

BHATT, Ravishanker, M.A.; Indian merchant banker; b. 13 Dec. 1909; s. of Santoshram Bhatt; m. Pushpa N. Pathak; two s. two d.; ed. Samaldas Coll., Bhavnagar, Bombay School of Econs. and Sociology and London School of Econs. Sec., Industrial Investment Trust Ltd. 1936-40, Sec. Diwan's Office, Bhavnagar State, subsequently Nayab Diwan (finance and railway) 1940-47; Finance Officer, Oriental Govt. Security Life Assurance Co. Ltd. 1948-53; Man. Dir. Bombay State Finance Corpn. 1953-57; mem. Govt. of India Tariff Comm. 1957-60; Exec. Dir. Indian Investment Centre 1960-64, Chair. 1972-; Chair. Unit Trust of India 1964-72, Govt. of India Advisory Cttee. on Control of Capital Issues 1973-, Ahmedabad Electricity Co. Ltd.; Dir. Premier Automobiles Ltd., Atul Products Ltd., Industrial Investment Trust Ltd., State Bank of India; mem. Cen. Advisory Council of Industries; Adviser, Merchant Banking Div., State Bank of India; Leader, Indian Del. to UN Comm. on Transnat. Corpns.; Hon. Fellow, L.S.E. *Publications:* Capital for Medium and Small-Scale Industries; various articles on economic and financial subjects. *Leisure interests:* reading plays and poetry, long walks. *Address:* Ewart House, Homi Mody Street, Bombay-1, India. *Telephone:* 253756.

BHATTACHARYA, Bhabani, PH.D.; Indian author and journalist; b. 22 Oct. 1906, Bhagalpur; s. of late P. N. Bhattacharya and Mrs. K. Bhattacharya; m. Salila Mukerji 1935; one s. two d.: ed. Patna and London. Press Attaché at Indian Embassy in Washington 1949-50; Asst. Editor The Illustrated Weekly of India, Bombay 1950-52; mem. Indian cultural del. to U.S.S.R. 1951; Sec. Tagore Commemorative Volume Soc. 1959-60; Del. Harvard Int. Seminar 1959, Harvard-Japanese Seminar, Tokyo 1960; Senior Specialist, Inst. of Advanced Projects, East-West Center, Honolulu 1969-70; Visiting Prof. Univ. of Hawaii 1971-72, Wash. State Univ. at Pullman 1975; Walker-Ames Prof. Univ. of Wash. 1973; [illegible] Nat. Acad. of Literature; Univ. of N.Z. Prestige Award 1963, Indian Nat. Acad. of Letters Award 1967, Asia Foundation Research Award 1966-67, Ford Foundation research grant and round-the-world travel award 1969; "Bhabani Bhattacharya Collection" established in Boston Univ. archives. *Publications:* Some Memorable Yesterdays, Indian Cavalcade, The Golden Boat, and the novels So Many

Hungers, Music for Mohini, He Who Rides a Tiger, A Goddess Named Gold, Shadow from Ladareh (novels translated into 16 European languages), Towards Universal Man, Gandhi, the writer: the image he grew 1969, etc. *Leisure interests:* travel in India and abroad. *Address:* 3 Otley Court, Glan Tai, Manchester, Mo. 63011, U.S.A. *Telephone:* (314) 351-7961.

BHATTACHARYYA, Birendra Kumar, B.SC., M.A., PH.D.; Indian journalist and writer; b. 16 March 1924, Suffry Sibsagar, Assam; s. of Sashidhar and Aideo Bhattacharyya; m. Binita Bhattacharyya 1958; two s. one d.; ed. Jorhat Government High School, Cotton Coll., Gauhati, Calcutta Univ. and Gauhati Univ.; fmr. Science Teacher, Ukrul High School, Manipur; Editor Ramdhenu 1951-61, Sadiniya Navayung 1963-67; Exec. mem. Janata Party, Assam; Sec. Archaeological Soc. of Assam; Sahitya Akademi Award for Assamese Literature 1961. *Publications: novels:* Iyaruingam (won Akademi Award), Rajpathe Ringiai (Call of the Main Street), Mother, Sataghai (Killer), Mrityunjay, Pratipad, Nastachandra, Ballart, Kabar Aru Phul, Ranga Megh, Daint; collections of short stories: Kolongajioboi (Still Flows the Kolong), Satsari (Necklace); Aurobindo (biography). *Address:* Kharghuli Development Area, Gauhati 4 Assam, India. *Telephone:* 25019.

BHAVE, Acharya Vinoba; Indian philosopher and social worker; b. 11 Sept. 1895, Gagoda, Maharashtra; s. of Narhav Shambhurao Bhave; ed. in Gagoda, Baroda Coll., Vadodara; co-worker and disciple of late Mahatma Gandhi; Founder and Leader of Bhoodan (Land Gift) Movement, the purpose of which is to bring about fundamental social and econ. change in society by peaceful means; movement began by way of a collection of gifts of land from landowners to be distributed among the landless, later developing into voluntary renunciation of ownership of land in favour of village communities, or Gramdan; Leader of Shanti Sena (Peace Volunteers), a movement for conflict resolution and socio-economic reform; Host of nat. seminar to discuss the state of emergency 1976. *Publications:* Talks on the Gita 1960, The Essence of the Quran 1962, Democratic Values 1963, Steadfast Wisdom 1966, The Essence of Christian Teachings 1966, and many others. *Leisure interests:* comparative study of all religions. *Address:* Sarva Seva Sangh, Rajghat, Varanasi, Uttar Pradesh, India. *Telephone:* 4391.

BHAYA, Hiten, M.A.; Indian business executive; b. 29 Feb. 1920, Muzaffarpur, Bihar; s. of U. N. Bhaya; m. Angela Bhaya; three c.; ed. Patna Univ.; joined govt. service 1944, with Ministry of Defence (Navy), trained in Royal Naval Establishment, Ceylon and U.K.; Dir. Naval Armaments, Naval H.Q. 1955-59; Industrial Management Pool 1959; Dir. of Purchase and Stores, Bhilai Steel Plant, Hindustan Steel Ltd. 1959-61, Sec. Hindustan Steel Ltd. 1961-67, Gen. Man. Alloy Steels Plant, Durgapur 1967-70, Commercial Dir. Hindustan Steel Ltd. 1970-72, Chair. 1972-77; Dir. Inst. of Management, Calcutta 1977-; Chair. Indian Iron and Steel Co. Ltd.; mem. Board of Govs. Nat. Inst. of Industrial Eng., Nat. Inst. of Foundry and Forge, Inst. of Cost and Works Accountants; Sir Jehangir Gandhi Medal for Industrial Peace 1976. *Leisure interest:* wood-carving. *Address:* 16 New Road, Calcutta 27, West Bengal, India.

BHUMIBOL ADULYADEJ; King of Thailand; b. 5 Dec. 1927, Cambridge, Mass., U.S.A.; ed. Bangkok and Lausanne, Switzerland; youngest son of Their Royal Highnesses Prince and Princess Mahidol of Songkhla; succeeded his brother, the late King Ananda Mahidol, June 1946; married Her Majesty the present Queen Sirikit, daughter of H.H. the late Prince Chandapuri Suranath, 28th April 1950; formal Coronation 5th May 1950; three daughters, H.R.H. Princess Ubol Ratana, b. 1951, H.R.H. Princess Sirindhorn, b. 1955, H.R.H. Princess Chulabhorn, b. 1957; one son, H.R.H. Crown Prince Vajiralongkorn, b. 1952. *Address:* Chitralada Villa, Bangkok, Thailand.

BHUSHAN, Shanti, B.SC., LL.B.; Indian lawyer and politician; b. 11 Nov. 1925, Bijnor, Uttar Pradesh; set up legal practice in Allahabad High Court 1948; Sr. Standing Counsel 1962; Advocate-Gen. of Uttar Pradesh 1969; Chair. Uttar Pradesh Bar Council; Treas. Working Cttee. of Org. Congress 1972; counsel for Raj Narain (*q.v.*) in Rae Bareli Constituency case; Treas. Janata Party Jan. 1977-; Minister of Law, Justice and Company Affairs March 1977–. *Address:* Ministry of Law, Justice and Company Affairs, New Delhi, India.

BHUTTO, Mumtaz Ali, M.A. (OXON.); Pakistani politician; b. 13 March 1933, Pir Buksh Bhutto; s. of Nawab Nabi Buksh Bhutto; m. 1950; one s. two d.; ed. Christ Church, Oxford; called to Bar, Lincoln's Inn; practised law, High Court, Karachi Bench 1959-61; mem. Nat. Assembly from Larkana 1965-; mem. Movt. against Pres. Ayub Khan 1966-69; founder mem. Pakistan People's Party 1967; imprisoned by Ayub Khan 1968; Gov. of Sind 1971-72, Chief Minister 1972-73; Minister of Communication, Govt. of Pakistan 1974-77; arrested July 1977. *Leisure interests:* hunting, shooting, riding, reading. *Address:* Village Pir Buksh Bhutto, Taluka Ratodero District, Larkana, Pakistan.

BIAGGI, Francantonio; Italian consulting engineer; b. 1899; ed. Politecnico, Milan, and Pavia Univ. Operation engineer, Società Orobia, Milan 1924-46, Engineering Man. 1946, later Deputy Gen. Man.; Gen. Man., later Man. Dir. Società Elettrica Bresciana Brescia 1948-; Man. Dir. Società Energia Elettrica (SENEL), Rome, Società Elettrica Valle Camonica; Vice-Pres. Società Lago d'Idro, Brescia; Dir. Rezzato-Vobarno Railway, Brescia; Appointee for Foreign Relations, Società Edison, Milan; expert OEEC Cttee. for Tariffs; Councillor, Federazione Nazionale Imprese Elettriche (FENIEL), Associazione Imprese Elettriche Lombarde Trentine Emiliane (AIELTE); fmr. mem. Italo-Austrian Cttee. for East Tyrol Hydro-Electric Plants; Italian Govt. del. to European Technical Comm. of ECA for study of interconnection problems in U.S.A. 1949; Councillor Associazione Nazionale Imprese Produttrici e Distributrici di Energia Elettrica (ANIDEL); Dir. Società Italiana Autotrasporti (SIA). *Publications:* L'elettricità in Diritto 1946, Ordnungsprobleme der elektrischen Energiewirtschaft im Rahmen der Erfahrungen in Italien 1951, Report on the Tecaid Mission in the United States (with Marin) 1949. Wechselwirkungen zwischen Tarifpolitik und Ausbauplanung der Energieerzeugung (with Boselli) 1952. *Address:* Piazza Vittoria 7, Brescia, Italy.

BIAGGINI, Benjamin Franklin; American business executive; b. 15 April 1916, New Orleans, La.; s. of Benjamin F. Biaggini, Sr. and Maggie (Switzer) Biaggini; m. Anne Payton 1937; two d.; ed. St. Mary's Univ. of Texas and Harvard Business School. Chair., Pres., Dir. and Chief Exec. Officer, Southern Pacific Co.; Chair., Dir. Southern Pacific Transportation Co. Chair., Dir. St. Louis Southwestern Railway Co. Vice-Chair. Business Council; Chair. Calif. Roundtable; Dir. Tenneco Inc., Assn. of American Railroads, Calif. State Chamber of Commerce, Stanford Research Inst. Int.; Trustee, Conf. Board, Calif. Inst. of Technology, Nat. Safety Council; mem. Nat. Pay Board 1971-72; mem. Nat. Transportation Policy Study Comm. 1976-79; Hon. LL.D. (St. Mary's Univ. of Tex., Golden Gate Univ.). *Address:* Southern Pacific Company, 1 Market Plaza, San Francisco, Calif. 94105, U.S.A.

BIANCINI, Angelo; Italian sculptor; b. 1911; ed. Accademia di Santa Luca. Prof. and Artistic Dir. Istituto d'Arte, Faenza; Regular Exhibitor Venice Biennali and Rome Quadriennali 1934-58; international exhibitor throughout the world; Prize, Milan Triennale 1940, Venice Biennale 1958. Major works: three statues. Galleria d'Arte Moderna, Rome, Canadian Temple, Rome, Mosaic Marist Fathers' International Coll. etc. *Address:* Istituto d'Arte di Ceramica, Faenza, Italy.

BIBBY, Sir (Arthur) Harold, Bt., D.S.O., D.L.; British shipowner; b. 18 Feb. 1889, Oxton, Cheshire; s. of Arthur Wilson Bibby and Beatrice Bibby (née Heald); m. Marjorie Guthrie Williamson 1920; one s. three d.; ed. Rugby; joined Bibby Bros. & Co. 1907; served in First World War, France and Flanders 1915-18; Chair. Liverpool Steam Ship Owners' Assn. 1927, 1958 (centenary year); High Sheriff of Cheshire 1934-35, apptd. Deputy Lieut. 1935; Chair. Liverpool Sailors' Home 1921-51, Pres. 1951-; Chair. Indefatigable and Nat. Sea Training School for Boys 1931-59, Pres. 1959-72; Chair. Bibby Line Ltd. 1935-69, Pres. 1969-; Dir. Martins Bank 1929-67, Chair. 1947-62; Dir. The Sea Insurance Co. Ltd. 1922-68, Chair. 1930-56; Gov. Rugby School 1932-67; Hon. LL.D. (Liverpool Univ.); Hon. Freeman, City of Liverpool 1970. *Leisure interest:* gardening. *Address:* Tilstone Lodge, Tarporley, Chesire; and Norwich House, Water Street, Liverpool, England.

BIBÓ, István, DR. POL. and JUR.; Hungarian scholar and politician; b. 7 Aug. 1911, Budapest; s. of István Bibó and Irene Graul; m. Boriska Ravasz 1940; one s. one d.; ed. Grammar schools at Budapest and Szeged, Piarist Coll., Szeged Univ., Vienna, Geneva; called to the Bar 1940; Lecturer Szeged Univ. 1940; in Ministry of Justice 1941-45; Counsellor, later departmental chief, Ministry of Interior 1945-46; Prof. of Political Sciences Szeged Univ. 1946-50; Deputy Pres. of East European Research Inst. Budapest 1947-49; Librarian, Univ. of Budapest 1951-57; Minister of State Nov. 1956; imprisoned 1957-63; Librarian, Central Statistical Office 1963-71. *Publications:* A szankciók kérdése a nemzetközi jogban 1934, Kényszer, jog, szabadság 1935, A magyar demokrácia válsága 1945, Zsidókérdés Magyarországon 1944 után 1948, The Case of Hungary and the World Situation 1957, Harmadik ut 1961, A keleteurópai kisnépek nyomorusága 1976, The Paralysis of International Institutions and the Remedies 1976, Jogszerü közigazgatás, eredményes, közigaz-

gatás, erös végrehajtóhatalom 1977, Magyarország raroshálóág kiepitére 1979. *Leisure interests:* cartography, historical and political atlases. *Address:* Orsó-utca 35, 1026 Budapest II, Hungary.

BICKMORE, Lee Smith; American food executive; b. 5 June 1908, Paradise, Utah; s. of Danford M. and Sarah Jane (Smith) Bickmore; m. Ellen McMinn 1939; two d.; ed. Utah State Univ. and Harvard School of Business Admin.; joined Nat. Biscuit Co. (Nabisco) 1933, District Sales Man., Newark (N.J.) 1946-49, Admin. Asst. to Vice-Pres. (Sales), General Office 1949-50. Vice-Pres. (Sales, Advertising and Marketing) 1950-57, Senior Vice-Pres. and mem. Exec. Dept. 1957, Exec. Vice-Pres. and mem. Board of Dirs. 1959, Pres. 1960-66, Chief Exec. Officer 1961-73, Chair. Board 1968-73, Chair. Exec. Cttee. 1973-; official of Nabisco subsidiaries and other companies. *Address:* c/o National Biscuit Company, 425 Park Avenue, New York, N.Y. 10022 (Office); 15 Randall Drive, Short Hills, N.J. 07078, U.S.A. (Home).

BIDAULT, Georges; French politician; b. 5 Oct. 1899, Moulins (Allier); s. of Georges Bidault and Augustine Traverse; m. Suzanne Borel 1945; ed. Coll. des Jésuites de Turin, Univ. of Paris; served First World War 1917-18, subsequently Prof. at Valenciennes, Rheims and Paris Univs.; adviser and leader writer for L'Aube until 1939; mobilized 1939, prisoner 1940, released, apptd. Prof. Univ. of Lyons; resistance leader; Minister of Foreign Affairs under de Gaulle 1944; Deputy (Loire) 1945-62; Prime Minister of Provisional Govt. 1946; Minister of Foreign Affairs 1947; Pres. MRP 1949; Prime Minister 1949-50, Deputy Prime Minister (Queuille Govt.) 1951, Minister of Nat. Defence (Pleven Govt.) 1951-52; Minister of Foreign Affairs (Mayer and Laniel Govts.) 1953-54; Pres. of temporary Council April 1958; exile in Brazil 1963-67, Belgium 1967-68; returned to France June 1968; Lecturer, Univ. of Guanabara 1965; Grand Croix, Légion d'honneur, Compagnon de la Libération, etc. *Publications:* D'une résistance à l'autre (autobiographical) 1965, Le point 1968. *Address:* 21 rue du Colonel-Moll, 75017 Paris, France.

BIDDLE, Eric H.; American administrator; b. 27 April 1898, Philadelphia, Pa.; s. of Fred Davis Biddle and Estelle Harbeson; m. 2nd Janet Mayo 1957; three s. one d.; ed. Univ. of Pennsylvania and Oxford Univ. Industrial Management and Finance 1922-32; Relief Administrator of Pennsylvania 1932-35; Exec. Dir. Community Fund of Philadelphia 1935-40; Exec. Vice-Pres. U.S. Cttee. for Care of European Children from the war zones 1940-41; mission to U.K. 1941, Head Special Mission to U.K. and missions to European, Middle East and Occupied Territories 1942-46 for various U.S. Govt. Depts.; Adviser U.S. Del. UNRRA 1945, UNESCO 1946, UN 1945-46; Chair. Advisory Group of Experts on Admin., Personnel and Budgetary questions to UN Gen. Assembly 1945-47; Special Asst. to Sec.-Gen. UN 1946; Special Asst. to Dir. of OIC, Consultant to Asst. Sec. of State for Public Affairs and special missions to Europe 1947; Special Asst. for Overseas Admin. ECA, Acting Chief ECA Mission to Korea and Asst. to U.S. Ambassador to Korea 1948; Consultant, ECA Mission to Italy and Special Asst. to Dir. of German and Austrian Affairs, Dept. of State 1949; Consultant to Chair., Nat. Sec. Resources Board, Exec. Office of the Pres. 1949-51, and to various ECA and MSA officials 1951-52; Special Consultant to Exec. Chair. Tech. Assistance Board (UN); Management Consultant 1953-57, Vice-Pres. and Dir. Porter Int. Co. 1957-65; Vice-Pres. United States Leasing Corpn. 1958-61; Pres. Biddle Associates 1961-. *Address:* 1730 Rhode Island Avenue N.W., Suite 910, Washington, D.C. 20036 (Office); 1200 N. Nash Street, Arlington, Va. 22209, U.S.A. (Home). *Telephone:* (703) 243-4766.

BIDE, Austin Ernest, B.SC., F.R.I.C., F.B.I.M.; British business executive; b. 11 Sept. 1915, London; s. of Ernest Arthur and Eliza (Young) Bide; m. Irene Ward 1940; three d.; ed. Univ. of London; mem. of staff, Dept. of Govt. Chemist until 1940; Research Dept. Glaxo Laboratories Ltd., Deputy Sec. 1954, Sec. 1959; Dir. Glaxo Group Ltd. 1963; Deputy Chair. Glaxo Holdings Ltd. 1971-73, Chair. and Chief Exec. 1973-; mem. Council CBI 1974-, Chair, Research and Tech. Cttee. 1977-; mem. Council British Inst. of Management and Fellows Cttee. 1976-, Chair. Finance Cttee. 1976-. Dir. and Chair. B.I.M. Foundation 1977-; Dir. British Leyland 1977-, J. Lyons and Co. 1977-78. *Leisure interests:* fishing, handicrafts. *Address:* Glaxo Holdings Ltd., Clarges House, 6-12 Clarges Street, London, W.1, England.

BIDEN, Joseph Robinette, Jr., J.D.; American politician; b. 20 Nov. 1942, Scranton, Pa.; s. of Joseph R. Biden and Jean F. Biden; m. Neilia Hunter (deceased); two s. one d. (deceased); ed. Univ. of Del., Newark and Syracuse Univ. Coll. of Law, N.Y. Trial Attorney in the Public Defender's Office, Del. 1968; Founder of Biden & Walsh Law Firm, Wilmington; mem. New Castle Co., Del. and American Bar Asscns., Amer. Trial Lawyers' Assn.; admitted to practise before the Del. Supreme Court; mem. New Castle Co. Council 1970-72; Senator from Del. 1972-, serving as mem. of the Cttee. on Public Works and the Cttee. on Banking, Housing and Urban Devt; named to the Democratic Steering Cttee; Democrat. *Leisure interests:* sports, history, public speaking, American architecture. *Address:* 347 Russell Building, Washington, D.C. 20510 (Office); 228 North Star Road, North Star, Wilmington, Del., U.S.A. (Home). *Telephone:* 239-4626 (Home).

BIEBERBACH, Ludwig, PH.D.; German mathematician, b. 4 Dec. 1886, Goddelau; s. of Dr. Erhard Bieberbach and Lina Ludwig; four s.; ed. Heidelberg and Göttingen Univs. Lecturer Königsberg Univ. 1910; Prof. Basel 1913, Frankfurt 1915, and Berlin 1921-45; mem. Prussian Acad. of Science 1924-45, Deutsche Akademie der Naturforscher Leopoldina, Halle 1924-. *Publications:* Differential- und Integralrechnung, Lehrbuch der Funktionentheorie, Theorie der Differentialgleichungen, Algebra, Analytische Geometrie, Projektive Geometrie, Differentialgeometrie, Höhere Geometrie, Konforme Abbildung, Theorie der geometrischen Konstruktionen, C. F. Gauss, Galilei und die Inquisition, Analytische Fortsetzung, Theorie der gewöhnlichen Differentialgleichungen auf funktionentheoretischer Grundlage, Theorie der gewöhnlichen Differentialgleichungen im reellen Gebiet. *Address:* Bahnhofstrasse 5, 8203 Oberaudorf, Federal Republic of Germany. *Telephone:* 08033/331.

BIEŃ, Witold, D.ECON.SC; Polish economist and politician; b. 15 June 1927, Przysieka, Miechów District; s. of Antoni and Magdalena Bień; m. 1950; one s. two d.; ed. Main School of Planning and Statistics, Warsaw; worked in Accounting Organization Office 1950-52; Ministry of Finance 1952-63, Counsellor to Minister 1963-68; Dir. Dept. of Industry 1968-71; Under-Sec. of State, Ministry of Finance May 1971-; Pres. Nat. Bank of Poland April 1973-; Extraordinary Prof., Main School of Planning and Statistics, Warsaw; mem. PUWP. *Address:* Narodowy Bank Polski, ul. Swiętokrzyska 11/21, 00-950 Warsaw, Poland. *Telephone:* 26-99-55.

BIERMANN, Adm. Hugo Hendrik, S.S.A., O.B.E.; South African naval officer; b. 6 Aug. 1916, Johannesburg; s. of Hugo Hendrik Biermann; m. Margaret Elaine Cruwys 1940; one s. one d.; ed. Braamfontein Afrikaans Medium School, Volkskool Heidelberg, Transvaal, Jan van Riebeeck High School, Cape Town and training ship General Botha; served in Merchant Navy 1934-39; transferred to S.A. Navy 1940, with rank of Sub-Lieut.; served in Mediterranean and S.A. waters; Chief of S.A. Navy 1952, with rank of Commodore; promoted to rank of Rear-Adm. 1957, Vice-Adm. 1967, Adm. 1972; Chief of S.A. Defence Forces 1972-76; mem. Defence Advisory Council 1976-. *Leisure interest:* sports. *Address:* Canty Bay House, 196 Main Road, Muizenberg, South Africa. *Telephone:* Cape Town 85666.

BIERMANN, Ludwig Franz Benedikt, DR. PHIL.; German astrophysicist; b. 13 March 1907, Hamm, Westphalia; m. Ilse Bier- (née Wandel); one s. two d.; ed. Univs. of Hanover, Munich, Freiburg and Göttingen. Asst., Univ. of Göttingen 1933; Scholarship, Univ. of Edinburgh 1934; at Univ. of Jena 1934-36; Lecturer (Dozent) Univ. of Berlin 1938, Univ. of Hamburg 1945-47, Assoc. Prof. 1947-48; Assoc. Prof. Univ. of Göttingen 1948; Head of Astrophysics Dept., Max-Planck-Inst. for Physics 1947-58; Dir. of Inst. for Astrophysics 1958-75, Acting Dir. Max-Planck-Inst. for Physics and Astrophysics 1971-75, Scientific mem. (emer.) 1975-; Prof. of Astronomy, Univ. of Munich 1959-; Chair. Scientific Policy, Cttee., European Southern Observatory (ESO) 1974-77, Kepler Comm., Bavarian Acad. of Sciences 1974-; Visiting Prof. Calif. Inst. of Technology, Haverford Coll., Princeton Univ. 1955, Univ. of Calif. (Berkeley) 1959-60, Univs. of Sydney and Canberra 1960, Inst. for Advanced Studies, Princeton 1961; Visiting Fellow, Univ. of Colorado, Boulder 1967, Special Visiting Prof. 1968-; mem. Bayerische Akad. der Wissenschaften; Corresp. mem. Soc. Royale des Sciences, Liège; Assoc. Royal Astronomical Soc., London, Int. Acad. of Astronautics, Deutsche Akademie der Naturforscher Leopoldina; Foreign Assoc. Nat. Acad. Sciences, Washington; Copernicus Prize 1943; Bruce Gold Medal of Astronomical Soc. of the Pacific 1967; Hon. D.Sc. (Univ. of Colorado) 1969; Emil-Wiechert-Medal, German Geophysical Soc. 1973, Gold Medal, Royal Astronomical Soc. 1974. *Major work includes:* Investigation on stellar evolution and stellar structure 1931-39, theoretical work on the solar atmosphere and corona 1933-, problems of cosmic radiation and interstellar magnetic fields 1950-, physics of comets and problems related to interplanetary matter and the solar wind 1951-, plasma physics and its relation to astrophysics 1956-, problems of space research 1963–. *Address:* Max-Planck-Institut für Physik und Astrophysik, Föhringer Ring 6 (Office); 8000 Munich 40, Rheinlandstr. 10B, 8000 Munich 40, Federal Republic of Germany. (Home). *telephone:* 327001 (Office); 325144 (Home).

BIESHEUVEL, Barend William; Netherlands agriculturist and politician; b. 5 April 1920, Haarlemmerliede; m. Wilhelmina Meuring 1945; one s. two d.; ed. Free Univ. of Amsterdam. Ministry of Agriculture 1945-47; Sec. for Foreign Relations, Fed. of Agriculture 1947-52; Gen. Sec. Nat. Protestant Farmers' Union 1952-59, Pres. 1959-63; mem. States-Gen. (Parl.) 1957-63, 1963-; mem. European Parl.; Deputy Prime Minister, Minister of Agriculture and Fisheries 1963-67; leader of Anti-Revolutionary Party; Prime Minister 1971-73; Pres. Shipbuilding Advisory Board, Supervisory Board Nat. Investment Bank 1973-; mem. Supervisory Board Ogem 1973-, Advisory Board Unilever N.V. 1973-, Supervisory Board Centrale Suiker Maatschappij (CSM) 1974-; Assoc. Dir. Business International, Geneva 1975-. *Address:* Enschedeweg 7, Aerdenhout, Netherlands.

BIFFEN, Rt. Hon. John; P.C.; British politician; b. 3 Nov. 1930; s. of Victor W. Biffen; unmarried; ed. Dr. Morgan's Grammar School, Bridgwater, Jesus Coll., Cambridge. M.P. for Oswestry 1961-; with Tube Investments Ltd. 1953-60; with Economist Intelligence Unit 1960-61; Chief Sec. to the Treasury May 1979-; Conservative. *Address:* House of Commons, Westminster, London, S.W.1; Middle Farm, Kinton, Nesscliffe, Salop, England.

BIGELEISEN, Jacob, A.B., M.S., PH.D.; American chemist; b. 2 May 1919, Paterson, N. J.; s. of Harry and Ida (Slomowitz) Bigeleisen; m. Grace Alice Simon 1945; three s.; ed. New York Univ., Washington State Univ. and Univ. of Calif. (Berkeley). S.A.M. Labs., Columbia Univ. (Manhattan District) 1943-45; Ohio State Univ. 1945-46; Univ. of Chicago 1946-48; Assoc. to Senior Chemist, Brookhaven Nat. Laboratory 1948-68; Prof. of Chemistry, Univ. of Rochester 1968-78, Chair. Dept. of Chemistry 1970-75, Tracy H. Harris Prof., Coll. of Arts and Sciences 1973-78, Leading Prof. of Chemistry, State Univ. of New York, Stony Brook 1978-; Vice-Pres. for Research 1978-, Dean of Graduate Studies 1978-; Chair. Math. and Physical Science Ass. 1976-; Visiting Prof. Cornell Univ. 1953; Hon. Visiting Prof., Eidgenössische Technische Hochschule, Zürich 1962-63-; Senior Postdoctoral Fellow, Nat. Science Foundation 1962-63; Visiting Distinguished Prof., State Univ. of N.Y. (Buffalo) 1966; Guggenheim Fellow 1974-75; mem. Nat. Acad. of Sciences, Fellow, American Acad. of Arts and Sciences; Gilbert N. Lewis Lecturer, Univ. of Calif. 1963; American Chem. Soc. Nuclear Applications to Chemistry Award 1958, E. O. Lawrence Memorial Award and Presidential Citation 1964. *Publications:* Calculation of Equilibrium Constants of Isotopic Exchange Reactions 1947, Relative Reaction Velocities of Isotopic Molecules 1949, The Significance of the Product and Sum Rules to Isotope Fractionation Studies 1957, Statistical Mechanics of Isotope Effects in Condensed Systems 1961, Quantum Mechanical Foundations of Isotope Chemistry 1974, and numerous publs. on ionization of strong electrolytes, organic photochemistry, semiquinones, acids and bases and particularly theoretical and experimental studies on the chemistry of isotopes. *Address:* 436 Administration Building, State University of New York, Stony Brook, Stony Brook, N.Y. 11794, U.S.A.

BIGGS, Sir Norman Parris, Kt.; British banker; b. 23 Dec. 1907, Newry, Co. Down; s. of John G. Biggs and Mary Sharpe Dickson; m. Peggy Helena Stammwitz 1936; two s. one d.; ed. John Watson's School, Edinburgh. Bank of England 1927-46; Dir. Kleinwort, Sons & Co. Ltd. 1946-52; Dir. Esso Petroleum Co. 1952-57, Man. Dir. 1957-64, Vice-Chair. 1964-66; Vice-Pres. (Finance) Esso Europe Inc. 1966-67; Chair. Esso Petroleum Co. Ltd. 1968-71; Chair. United Int. Bank Ltd. 1970-, Williams and Glyn's Bank Ltd. 1972-76; Deputy Chair. Nat. and Commercial Banking Group Ltd.; Dir. Gillett Bros. Discount Co. Ltd. *Leisure interests:* sailing, travel. *Address:* Northbrook, Danworth Lane, Hurstpierpoint, Sussex, England. *Telephone:* 01-948 1747.

BIHALJI-MERIN, Oto; Yugoslav critic, essayist and novelist; b. 3 Jan. 1904, Belgrade-Žemun; s. of David Bihalji and Klara (Schoemann) Bihalji; m. Lisa Bihalji 1938; one d.; ed. Belgrade and Berlin Acads. of Fine Art; began his career as painter; now works as author, editor and art critic; also writes under the pseudonyms Peter Merin and Peter Thoene; Editor-in-Chief Jugoslavia 1949-58; mem. Selection Cttee., Art Exhibition, Brussels Int. Exhbn. 1958; organized exhbn. The World of the Naives, Haus der Kunst, Munich 1975; exhbn. Profile of Art Critic, Belgrade 1976. *Publications:* Conquest of the Skies 1937 (English, French, German, Dutch and Swedish edns), Spain Between Death and Birth 1938 (English and German edns.), Modern German Art (English edn. 1938, Serbo-Croat edn. 1955), Au Revoir in October (novel) 1947, Yugoslavia, Small Country between the Worlds 1954 (German edn. 1955, Dutch edn. 1956), Yugoslav Sculpture of the XX Century 1955 (English, French and German edns.), Peter Lubarda and the Painting "The Battle of Kossovo", The Invisible Door (play) 1956, Rencontres in Our Days (essays) 1957, Icons and Frescoes in Serbia and Macedonia (French, English and German edns.) 1958, Primitive Arts of the XX Century in Europe and America 1959, The Adventure of Modern Art (English, German, Japanese edns.) 1962-68, Bogosav Zivkovic, World of a Primitive Sculptor 1962, 1963, Bogomil Sculpture 1962, 1964 (The Bogomils in English 1963), Primitive Artists of Yugoslavia 1965, Die Welt von oben 1966, Art Treasures in Yugoslavia (Editor and preface) 1969, Masks of the World 1970 (German and English), The End of Art in the Age of Science? (French and German) 1969, The Douanier Rousseau (with Lisa Bihalji-Merin) 1970, Time-Light-Movement (essay) (German, French, Serbo-Croat, Spanish) 1970, Modern Primitives 1971, Masters of Naive Art (English, German, French, Italian, Serbo-Croat, Dutch) 1971, 1972, Bridges of the World (Editor and preface) 1972, Image and Imagination 1974, Unity of the World in the Vision of Art 1974, Critical Notes (Bihalji-Merin: Morris Hirschfield) 1976, Mouvement et Agressivité de Vladimir Velicković (French) 1976, Painting behind Glass (German) 1978, monographs on painters: Krsto Hegedusic 1965, Gabrijel Stupica 1968, Marij Pregelj 1971; also TV films in Frankfurt and Belgrade, and films on Impressionists and Modern Art. *Leisure interests:* talking with young people, travelling by aeroplane, listening to very old and very new music. *Address:* Nemanjina ul. 3, Belgrade 11 000, Yugoslavia. *Telephone:* Belgrade 641-571.

BILAC PINTO, Olavo; Brazilian lawyer and politician; b. 8 Feb. 1908, Minas Gerais; s. of João Pereira Pinto and Laura Domingues Pereira; m. Maria do Carmo Moreira 1933; one s. two d.; ed. Instituto Moderno de Edúcação, Minas Gerais, and Univ. de Minas Gerais; criminal lawyer, Belo Horizonte 1931-33; Police Instructor, Minas Gerais 1933-34; Deputy of Constituent and Legislative Assemblies, Minas Gerais 1934: Dir. Revista Forense 1935; Prof. Faculty of Law, Univ. de Minas Gerais 1939-41; fmr. Prof. of Administrative Law, Univ. of Brazil; Fed. Deputy 1950-; Financial Sec. State of Minas Gerais 1961; Leader of União Democrática Nacional (U.D.N.) in Chamber of Deputies 1962-63; Pres. of Nat. Cttee. U.D.N. 1963; Del. to UN 1964; Pres. Brazilian Chamber of Deputies 1965-66; Amb. to France 1966-70; Minister, Supreme Fed. Tribunal 1970-72. *Publications:* Contribuição de Melhoria 1937, Ministério Público 1937, Regulamentação Efetiva dos Serviços de Utilidade Pública 1941, Estudos de Direito Público 1953, Le Financement de l'Hotellerie Touristique 1964, Guerra Revolucionária 1964. *Address:* Avenida Vieira Souto 550, Rio de Janeiro, RJ, Brazil.

BIL'AK, Vasil, R.S.DR.; Czechoslovak politician; b. 11 Aug. 1917, Krajná Bystrá; ed. School of Political Studies at Central Committee of Communist Party of Czechoslovakia, Prague; took part in Slovak Nat. Rising 1944; full-time party official, Regional Cttee., CP of Slovakia, Bratislava 1950-51; Dept. Head, Cen. Cttee., CP of Slovakia 1953; Sec. and Chief Sec. Regional Cttee., CP of Slovakia, Prešov 1954-58; Minister-Commr., Comm. for Educ. and Culture of Slovak Nat. Council 1959-62, Minister 1960-62; Deputy Chair. Slovak Nat. Council 1960-63; Sec. Cen. Cttee. CP of Slovakia 1962-68, First Sec. 1968; mem. Cen. Cttee. CP of Czechoslovakia 1954-, mem. Secr. 1968-; mem. Presidium Cen. Cttee. CP of Czechoslovakia 1968-, Chair. Ideological Cttee. 1970-; Deputy to Slovak Nat. Council 1954-64; mem. Cen. Cttee. of CP of Slovakia 1955-71; Deputy to Nat. Assembly 1960-69; mem. Presidium, Cen. Cttee. of CP of Slovakia 1962-68; mem. Presidium Nat. Assembly 1963-68; Deputy to House of The People, Fed. Assembly 1969-; mem. Presidium of Fed. Assembly 1969-71; mem. Presidium Nat. Assembly 1975-; Order of Labour 1967, Georgi Dimitrov Order 1968, Soviet Order of the Red Banner 1970, Soviet Memorial Medal 1970, Order of Repub. 1972, Order of Victorious Feb. 1973, hon. Hero of Socialist Labour 1977, Klement Gottwald Order 1977, Order of Lenin (U.S.S.R.) 1977. *Address:* Central Committee of Communist Party of Czechoslovakia, nábř. Kyjevské brigády 12, Prague 1, Czechoslovakia.

BILGE, Ali Suat, LL.T.; Turkish professor of international law and politician; b. 1921, Istanbul; s. of Sulhiye and Sezai Bilge; m. Olcay Bilge 1965; one s./ed. Univs. of Ankara and Geneva. Assistant, Faculty of Political Science, Univ. of Ankara 1950, Assoc. Prof. 1952, Prof. 1960-; Hon. Legal Adviser, Ministry of Foreign Affairs 1960, First Hon. Legal Adviser 1965; Judge, European Court of Human Rights 1966; mem. Perm. Court of Arbitration, The Hague 1966; mem. UN Cttee. of Human Rights 1970; mem. Int. Law Comm. 1971-; Minister of Justice 1971-72; Amb. to Switzerland 1972-76. *Publications:* Diplomatic Protection of Compatriots 1953, International Politics 1966. *Leisure interest:* fishing. *Address:* Bahçelievler 58 nci Sokak No. 2, Ankara, Turkey (Home). *Telephone:* 12-25-17.

BILHEIMER, Rev. Robert Sperry, B.A., B.D., D.D.; American ecclesiastic; b. 28 Sept. 1917, Denver, Colo.; s. of George Steven

and Katherine Elizabeth Bilheimer; m. Dorothy Dodge 1942; three s.; ed. Phillips Exeter Acad., Yale Univ., Yale Divinity School. Minister, Westminster Presbyterian Church 1946-48; Sec. The Inter-Seminary Movement 1945-48; Programme Sec., World Council of Churches, New York 1948-54, Assoc. Gen. Sec., Dir. of the Division of Studies, Geneva 1954-63; Senior Minister, Central Presbyterian Church, Rochester, N.Y. 1963-66; Dir. Int. Affairs Programs, The Nat. Council of Churches of Christ in the U.S.A. 1966-74; Exec. Dir. Inst. for Ecumenical and Cultural Research, St. John's Univ. 1974-. *Publications:* What Must the Church Do? 1947, The Quest for Christian Unity 1952. *Leisure interests:* trout fishing, photography. *Address:* The Ecumenical Institute, St. John's University, Collegeville, Minn., U.S.A. *Telephone:* (612) 363-3366.

BILIBIN, Aleksandr Fedorovich; Soviet infectionist; b. 28 March 1897. Surazh, Bryansk Region; ed. Kiev Univ. Physician, Head of Section in hospital 1922-24; Head of Chair, Third Moscow Medical Inst. 1944-50, Second Moscow Medical Inst. 1950-; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1950-60, mem. 1960-; Hon. mem. Czechoslovak Purkinye Scientific Soc.; Order of Lenin, Red Banner of Labour, Merited Scientist of U.S.S.R. *Publications:* About 150 works on acute infectious diseases (dysentery, salmonellosis, Botkin disease). *Address:* Second Medical Institute, 1 Malaya Pirogovskaya ulitsa, Moscow, U.S.S.R.

BILL, Max; Swiss architect, sculptor, painter, politician and writer; b. 22 Dec. 1908, Winterthur; s. of Erwin Bill and Marie Geiger; m. Binia Spoerri 1931; ed. Zürich School of Art and Craft and Dessau Bauhaus. Prof. at Zürich 1944-45; Dir. Inst. for Design, Ulm, Germany 1951-56; Prof. of Environmental Design, Inst. for Fine Arts, Hamburg 1967-74; Grand Prix Triennale Milan 1936 and 1951, Biennale São Paulo 1951 (1st Int. Sculpture prize); mem. Fed. of Swiss Architects; mem. Zürich City Council 1961-68, Swiss Fed. Council 1967-71; Hon. Fellow, American Inst. of Architects 1964; mem. Acad. of Arts, Berlin, Royal Flemish Acad. of Science, Letters and Art; Kandinsky Prize 1949, Art Prize, City of Zürich 1968. *Address:* Albulastrasse 39, 8048 Zürich (Office); Rebhusstrasse 50, 8126 Zumikon, Switzerland (Home). *Telephone:* (01)-52-60-60 (Office).

BILLERA, I. John; American business executive; b. 20 July 1912, New York City; m.; ed. Coll. of the City of New York; fmr financial officer, Noma Electric Corpn., Edward Ermold Co., Sperry Gyroscope Co.; Treas. U.S. Industries Inc. 1953, subsequently financial Vice-Pres., then Senior Vice-Pres. in charge of all overseas operations, Exec. Vice-Pres. 1960, Dir. 1963-, Pres. 1965-70, Chief Exec. Officer 1965-, Chair. of Board 1966-. *Address:* U.S. Industries Inc., 250 Park Avenue, New York, N.Y. 10017, U.S.A.

BILLESKOV-JANSEN, Frederik Julius, DR.PHIL.; Danish professor; b. 30 Sept. 1907, Hvidbjerg; s. of Hans Billeskov-Jansen and Bothilde Schack-Schou; m. Vibeke Collet Henrichsen 1938; one s. two d.; ed. Københavns Universitet. Asst. Lecturer in Danish, Univ. of Copenhagen 1935-38, Prof. 1941-77; Lecturer, Univ. de Paris à la Sorbonne 1938-41; Editor Orbis Litterarum 1943-50; mem. Royal Danish Acad. of Sciences and Letters, mem. Int. Asscns. of Comparative Literature and of German Language and Literature, mem. Danish Acad.; Pres. Søren Kierkegaard Soc., Alliance Française, Copenhagen; Kommandor af Dannebrog; Officier, Légion d'honneur. *Publications* Danmarks Digtekunst I-III 1944-58, 2nd edition 1964, Holberg som Epigrammatiker og Essayist 1939, Editions of Holberg: Moralske Tanker 1943, Epistler 1954, Memoirer 1963, Vaerker i tolv Bind 1969-71, Ludvig Holberg 1974; Søren Kierkegaards Litterære Kunst 1951, Søren Kierkegaards: Vaerker i Udvalg 1950, Poetik (Vols. I and II) 1941-48, Den Danske Lyrik 1961-66, Esthétique de l'œuvre d'art littéraire 1948, L'Age d'or 1953, Anthology of Danish Literature (French edn. 1964, English edn. 1971, Italian edn. 1973, Dutch edn. 1973), Verdens Litteraturhistorie I-XII (Chief Editor) 1971-74 (Japanese edn. 1976); also articles in Scandinavian and international reviews. *Address:* Frydendalsvej 20, 1809 Copenhagen V. Denmark. *Telephone:* 01-316369.

BILLET, Georges; French international civil servant; b. 1 June 1920, Paris; m. Jeannine Chaffenet 1943; two s.; ed. Ecole Nat. d'Administration. Head of Dept. in Div. of Personnel and Budget, Ministry of Public Works and Transport 1953, Asst. Dir. of Gen. Affairs in Ministry 1962, Head of Gen. Affairs and Transport Coordination in Land Transport Div. 1963, Head of Road and Urban Transport 1967, Insp.-Gen. of Public Works and Transport 1970; Officer responsible for Int. relations of Ministries of Equipment and Transport 1972-75; Sec.-Gen. Higher Council of Transport 1975-76, European Conf. of Ministers of Transport May 1976-; Officer, Ordre Nationale du Mérite, Légion d'honneur *Address:* Conférence Européenne des Ministres des Transports, 19 rue de Franqueville, 75775 Paris (Office); 8 ter, rue de la Marne, 95220 Herblay, France. (Home). *Telephone:* 524-97-10 (Office); 997-23-05 (Home).

BILLETDOUX, François-Paul; French writer, actor, director and producer; b. 7 Sept. 1927, Paris; s. of Paul and Adrienne (Vidal) Billetdoux; m. Evelyne Colin 1947; two d.; ed. Ecole d'Art Dramatique Charles Dullin and Institut des Hautes Etudes Cinématographiques. Producer and Dir. Radiodiffusion Française 1946-, in Caribbean 1949-50, Gen. Overseas Service 1957-58; journalist 1951; cabaret actor and disc jockey 1951-53; work for theatre, radio, television and films 1959-; Head of Research Dept., Radio France, and Nat. Audio-visual Inst. 1975-; Chevalier, Légion d'honneur. *Publications:* L'animal (novel) 1955, Une rose pour Charles Cros 1957, Royal Garden Blues 1957, Brouillon d'un bourgeois 1961; Plays: Treize pièces à louer 1951, A la nuit 1955, Tchin-Tchin 1959, Le comportement des époux Bredburry 1960, Va donc chez Törpe 1961, Pour Finalie 1962, Comment va le monde, Môssieu?, Il tourne, Môssieu! 1964. Il faut passer par les nuages 1964, Silence! l'arbre remue encore! 1967, Je n'étais pas chez moi 1968, Quelqu'un devrait faire quelque chose 1969, 7 + Quoi? 1969, Femmes parallèles 1970, Rintru pa trou tar hin! 1971, Ne m'attendez pas ce soir 1971, Les veuves 1972, La nostalgie, camarade 1974; Television: Pitchi Poï ou la parole donnée 1967, Musique pour [redacted] ville 1969, Famine chez les rats 1970, Cantique des créatures 1970, L'apocalypse des animaux 1973; Radio: Ai-je dit que je suis bossu? 1971. *Address:* 31 square de Montsouris 75014 Paris, France.

BILLINGHAM, Rupert Everett, M.A., D.PHIL., D.SC., F.R.S.; British zoologist; b. 15 Oct. 1921, Warminster, Wilts.; s. of Albert Everett Billingham and Helen Louise Green; m. Jean Mary Morpeth 1951; two s. one d.; ed. Oxford Univ. Lecturer, Dept. of Zoology, Birmingham Univ. 1947-51; Research Fellow of British Empire Cancer Campaign, and Hon. Research Assoc., Dept. of Zoology, Univ. Coll. London 1951-57; mem. Wistar Inst. of Anatomy and Biology, Phila., U.S.A. 1957-65; Prof. of Zoology, Univ. of Pa. 1958-71; Prof. and Chair. Dept. of Medical Genetics, and Dir. Phipps Inst. of Medical Genetics, Univ. of Pa., School of Medicine 1965-71; Prof. and Chair. Dept. of Cell Biology, Univ. of Tex. Health Science Centre at Dallas, Tex. 1971-; Pres. The Transplantation Soc. 1974-76; Fellow, New York Acad. of Sciences, American Acad. Arts and Sciences; Fellow Royal Soc. 1961-; Alvarenga Prize, Coll. of Physicians of Phila.; Hon. Award Medal, American Assn. of Plastic Surgeons; Hon. D.Sc., Trinity Coll. (Conn.), F. L. Adair Award, American Gynaecological Soc. 1971. *Publications:* Transplantation of Tissues and Cells (ed. with W. K. Silvers) 1961, Wound Healing (ed. with W. Montagna) 1964, Epithelial-Mesenchymal Interactions (ed. with R. Fleischmajer) 1968, Immunology and the Skin (ed. with W. Montagna) 1971, The Immunobiology of Transplantation (with W. K. Silvers) 1971, The Immunobiology of Mammalian Reproduction (with A. E. Beer) 1976, numerous scientific publications on tissue transplantation immunology, immunological tolerance, immunological aspects of mammalian reproduction and the biology of skin, in Royal Soc. and other journals. *Leisure interest:* gardening. *Address:* Department of Cell Biology, University of Texas Health Science Center at Dallas, 5323 Harry Hines Boulevard, Dallas, Texas 75235 (Office); 6181 Preston Haven Drive, Dallas, Texas 75230, U.S.A. (Home). *Telephone:* 214-688-2224 (Office); 214-661-9895 (Home).

BILLINGS, Marland Pratt, PH.D., D.SC.; American geologist; b. 11 March 1902, Boston; s. of George Bartlett and Helen Agnes (McDonough); m. Katharine Stevens Fowler 1938; one s. one d.; ed. Harvard Univ. Teaching Fellow and Instructor, Harvard Univ. 1922-28, 1930-, Asst. Prof. 1930-39, Assoc. Prof. 1939-46, Prof. 1946-72, Prof. Emer. 1972-, Chair. Div. of Geological Sciences 1946-51; mem. Faculty, Bryn Mawr Coll. 1928-30; mem. Staff U.S. Geological Survey, Part-time 1929-44, Geologist 1943-44; Civilian Technical Observer, U.S. Army 1944; mem. American Assn. for the Advancement of Science (Vice-Pres. 1949), Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Assn. of Petroleum Geologists, Seismological Soc. of America; Fellow, Geological Soc. of America (Pres. 1959), Mineral Soc. of America; Hon. D.Sc. (New Hampshire and Washington Univs.). *Publications:* Structural Geology 1942 (3rd edn. 1972), Bedrock Geology of New Hampshire 1956, Chemical Analyses of Rocks and Rock-Minerals from New Hampshire 1964. *Address:* Harvard University, Dept. of Geological Sciences, 24 Oxford Street, Cambridge, Mass. 02138 (Office); Westside Road RFD, North Conway, New Hampshire 03860, U.S.A. (Home). *Telephone:* (617) 495-2351 (Office); (603) 383-6664. (Home).

BILLOTTE, Gen. Pierre; French army officer and politician; b. 8 March 1906, Paris; s. of Gen. Gaston Billotte and Catherine Nathan; m. 1951: two d.; ed. Ecole Militaire de Saint-Cyr, Ecole

Supérieure de Guerre. Military Rep. of Free French in Moscow 1941-42; Chief of Staff to Gen. de Gaulle in London 1942-44, Sec. of Cttee. for Nat. Defence; Commdr. Brigade under Gen. Leclerc 1944; Commdr. 10th Infantry Division 1944; Asst. Gen. Chief of Staff Nat. Defence 1945-46; French Mil. Rep. to UN 1946-50; retired from army 1950; mem. Chamber of Deputies 1951-56, 1962-66, 1968-71, 1971-78; Minister of Nat. Defence and of the Armed Forces 1955; Rep. of France on various UN Cttees. 1955-62; Vice-Pres. UNR Group in Nat. Assembly 1962-66; Minister of State Overseas Depts. and Territories 1966-68; Mayor of Créteil 1965-77; Pres. Mouvement pour le socialisme par la participation; Commdr. Légion d'honneur; Compagnon de la Libération. *Publications:* Fatalité de la défaite allemande 1941, Le temps du choix 1950, L'Europe est née 1955, Considération sur la stratégie mondiale 1957, Du pain sur la planche 1965, Le temps des [illegible] 1973, Trente [illegible] d'humour avec de Gaulle. *Address:* 39 boulevard du Commandant Charcot, Neuilly-sur-Seine, France.

BINAISA, Godfrey; Ugandan Head of State. Attorney-Gen. in Milton Obote's Govt. 1962-67; law practice in New York while in exile; mem. Uganda Nat. Liberation Front; Pres. of Uganda June 1979-. *Address:* Office of the President, Kampala, Uganda.

BINDER, Paul, DR.SC.POL.; German economist; b. 29 July 1902, Stuttgart; s. of Paul Martin Binder and Frieda Barth; m. Gisela Soll 1947; two d.; ed. Technical High School, Stuttgart, and Univs. of Tübingen, Rostock, Dijon. Deputy Dir. of Dresdner Bank, Berlin 1937-40; Provincial Dir., later State Sec. and Dir. of the Finance Ministry and Deputy Prime Minister of Württemberg-Hohenzollern; mem. of Parl. Council, Bonn 1949; mem. Council of Economic Advisers for the Appraisal of General Econ. Devt. 1964-68; mem. Board European Cttee. for Econ. and Social Progress (CEPES), and Dir. of its German Board; [illegible] Board of Dirs. Econ. Cttee. of C.D.U.; Hon. Senator Tübingen Univ., Prof.; Grosses Verdienstkreuz mit Stern. *Publications:* Schalthebel der Konjunktur 1939, Die Stabilisierung der Wirtschaftskonjunktur 1956, U.S.A. und Wir 1956, Kaufkraft, Produktivität, freie Kapitalbildung 1956, Die Bundesbahn und ihre Konkurrenten 1961, Die Wirtschaft, die Materielle Grundlage unserer Existenz 1972, Kritik der traditionellen Wirtschaftstheorie und der herkömmlichen Wirtschaftspolitik. *Leisure interest:* history. *Address:* Königstrasse 48, Stuttgart-N, Federal Republic of Germany. *Telephone:* 292383.

BINDER, Theodor, M.D.; Peruvian physician; b. 1919; ed. Hebel-Gymnasium Lörrach, Univs. of Freiburg, Strasbourg, and Basel, and Swiss Tropical Inst., Basel. Clinic Chief, Swiss Tropical Inst. 1947-48; Public Health Officer, Oxapampa, Peru 1948-50; Staff, Medical School, Nacional Mayor de S[illegible] Marcos de Lima 1951-56; Founder of Clinic for the Poor, and constructor of Hospital, Pucallpa 1956-60, Inauguration Hospital Amazónico Albert Schweitzer, Yarinacocha, Pucallpa 1960, Director 1960-; Founder and Dir. Instituto Tropical Amazónico 1963-; Exec. Dir. Amazonian Indian Int. Devt., Toronto and N.Y. 1971-. *Publications:* Philosophy: Friedrich Nietzsche 1950, Goethe's Iphigenia and the Ethics 1951, A. Schweitzer [illegible] a Philosopher 1954, Heroism as [illegible] Attitude towards Life 1956, Personal Ethics in a Depersonalizing Age 1963, Tristes Tropiques or Land of Hope 1968, The Right to [illegible] Independent Development in the Third World 1970, Sense and Non-[illegible] of the Christian Mission among Jungle Indians 1970, Problems of Intercultural Relations 1971; Medicine: Congenital Malaria 1950, Treatment of Hypertension 1952, Latin-America: Nonanalytical Psychotherapy 1958, Histoplasmosis in Eastern Peru 1964, Dermatomycosis [illegible]nd Deep Mycosis in Eastern Peru 1965, etc. *Address:* Taos Canyon, Taos, N.M. 87571, U.S.A.

BING, Sir Rudolf, K.B.E.; British impresario; b. 9 Jan. 1902, Vienna, Austria; s. of Ernst and Stefanie Hoenigsvald Bing; m. Nina Schelesmskaya-Schelesnaya 1929. Hessian State Theatre, Darmstadt 1928-30; Civic Opera, Berlin-Charlottenburg 1930-33; Gen. Man. Glyndebourne Opera, England 1935-49; Artistic Dir. Edinburgh Int. Festival 1947-49; Gen. Man. Metropolitan Opera N.Y., 1950-72; Distinguished Visiting Prof. of Music, Brooklyn Coll. 1972-75; Consultant, Columbia Artists Management Inc. 1974-; Adjunct Prof. of Theatre Management, N.Y. Univ. 1972; Hon. D.Mus. (Lafayette Coll., Pa.), Hon. D.Litt. (Dickinson Coll., Pa.), Hon. D. Hum. Litt. (N.Y., Temple Univs., and Wagner Coll.), Hon. LL.D. (Jacksonville Univ., Fla.); Chevalier Légion d'honneur, Grand Officer Order of Merit of Repub. of Italy, Grand Silver Medal of Honour of Repub. of Austria, Commander's Cross of Order of Merit of Fed. Repub. of Germany. *Publications:* 5000 Nights at the Opera 1972. *Address:* Essex House, 160 Central Park South, New York, N.Y. 10019. U.S.A.

BING, R. H., B.SC., M.ED., PH.D.; American mathematician; b. 20 Oct. 1914, Oakwood, Tex.; s. of Rupert Henry Bing and Lula May Thompson Bing; m. Mary Blanche Hobbs 1938; one s. three d.; ed. Southwest Texas State Univ. and Univ. of Texas. Asst. Prof., Univ. of Wisconsin, Assoc. Prof., Prof., Research Prof. 1969-73; Prof. Univ. of Texas 1973-; Chair. Conf. of Board of Mathematical Sciences 1965-66, Chair. Div. of Mathematical Science of Nat. Research Council 1967-69: Vice-Pres. and Chair. of Section A., American Assen. for the Advancement of Science 1959; Pres. Mathematical Assen. of America 1963-64; mem. Nat. Science Board 1968-75. Nat. Acad. of Sciences; Vice-Pres. American Mathematical Soc. 1967-69, Pres. 1976-78. *Publications:* research articles on topology in mathematical journals. *Address:* Department of Mathematics, R. L. Moore Hall, University of Texas, Austin, Texas, U.S.A. *Telephone:* 512-471-4257 (Office); 512-453-5317 (Home).

BINGER, James Henry, A.B., LL.B.; American lawyer and business executive; b. 16 May 1916, Minneapolis, Minn.; s. of Dr. Henry E. and Vida Binger (née DeBar); m. Virginia E. McKnight 1939; one s. two d.; ed. Yale Univ. and Univ. of Minnesota. Assoc., Fletcher, Dorsey, Barker, Colman and Barber 1941-43; Minneapolis-Honeywell Regulator Co. (Honeywell Inc. 64) 1943-, Asst. Sec. 1945-46, Asst. Vice-Pres. 1946-50, Vice-Pres. and Gen. Man. Valve Div., Philadelphia 1949, Vice-Pres. 1952-61, Dir. 1959-, Pres. 1961-65, Chief Exec. Officer 1964-74, Chair. 1965-74, now Chair. Exec. Cttee.; Dir. North-western Bell Telephone Co., Northwest Airlines, Northwest Bancorporation, 3M Co., Chase Manhattan Bank; Vice-Pres. Univ. of Minnesota Foundation; mem., fmr. Vice-Chair., Business Council. *Address:* Honeywell Inc., Honeywell Plaza, Minneapolis, Minnesota, U.S.A.

BINGHAM, Colin William Hugh; Australian journalist and author; b. 10 July 1898, Richmond, Queensland; s. of H. Bingham; m. Alexa Strachan 1923; one s. two d.; ed. Townsville Grammar School and Queensland Univ. Literary staff The Telegraph, Brisbane 1922-39; London staff Australian Assoc. Press 1940-42; Foreign Corresp. Sydney Morning Herald 1943-48, Assoc. Editor 1957-61, Acting Editor 1957-58, Editor 1961-75; mem. N.S.W. State Advisory Cttee. of Australian Broadcasting Comm. 1968-72; mem. Metropolitan Council Workers' Educational Assen. (N.S.W.) 1970-74; elected life mem. Queensland Univ. Union; Ford Memorial Prize for Verse, Queensland Univ. 1920, 1923, 1924; Wilkie-Deamer Newspaper Address 1965; Jubilee Lecturer, Queensland English Assen. 1973. *Publications:* Men and Affairs 1967, The Affairs of Women 1969, Poems 1970, National Images (poems) 1979. *Leisure interests:* music, bird watching, gardening. *Address:* 30 Arnold Street, Killara, N.S.W. 2071, Australia. *Telephone:* 4982970.

BINGHAM, Jonathan Brewster; American politician; b 24 April 1914, New Haven, Conn.; s. of Hiram and Alfreda (Mitchell) Bingham; m. June Rossbach 1939; one s. three d.; ed. Yale Univ.; mem. New York Bar; U.S. Army 1943-45; private legal practice 1939-41, 1946-51, 1953-54, 1959-61; Office of Price Admin. 1941-42; Dept. of State 1945-46; Asst. Dir. Office of Int. Security Affairs, Dept. of State 1951; Dep. Administrator, Tech. Co-op. Admin. 1951-53; Sec. to State Gov. 1955-58; U.S. Rep. UN Trusteeship Council 1961-63, Pres. 1962-63; U.S. Rep. UN Econ. and Social Council 1963-64; mem. U.S. House of Reps. 1965-. *Leisure interests:* chamber music (violin, viola), tennis, golf. *Address:* House of Representatives, Washington, D.C. 20515; 5000 Independence Avenue, Bronx, N.Y. 10471, U.S.A. (Home). *Telephone:* 202-225-4411 (Office); 212-933-2310 (Home).

BINKOWSKI, Johannes Aloysius Joseph, D.PHIL.; German newspaper publisher; b. 27 Nov. 1908, Neisse; s. of Emil and Anna Binkowski; m. Helene Scholz 1937; ed. Univs. of Breslau and Cologne. Co-Founder and head of adult educ. programme, Aalen 1951; Co-Founder Südwestdeutscher Zeitungsverband 1954; Chair. Cttee. for Political Journalism and Studies, Assen. of Newspaper Publrs. 1962, Pres. Assen. 1970-; mem. German Press Council 1966-70; Chair. Verein Südwestdeutscher Zeitungsverleger 1967, Vice-Chair. 1970-; mem. Television Council, Zweites Deutsches Fernsehen, Chair. Policy and Co-ordination Cttee. 1962-; mem. Board of Govs. Stiftervereinigung der Presse 1966-; Vice-Pres. Int. Fed. of Newspaper Publrs. 1973-; Pres. Ritterorden vom Heiligen Grabe zu Jerusalem; Grosses Verdienstkreuz 1969. *Publications:* Wertlehre des Duns Scotus 1935, Religiöse Erwachsenenbildung 1936, Christlicher Alltag 1937, Der Mensch am Scheideweg 1947, Die sozialen Enzykliken 1963, Mit den Massenmedien leben 1970. *Address:* 7 Stuttgart 1, Villastrasse 11 (Office); 7 Stuttgart 75 (Sillenbuch), Oberwiesenstrasse 47, Federal Republic of Germany (Home). *Telephone:* 432981 (Office); 473804 (Home).

BIOBAKU, Saburi Oladeni, C.M.G. PH.D.; Nigerian historian and university official; b. 16 June 1918; m. Muhabat Folasade Agusto 1949; one s.; ed. Government Coll., Ibadan, Higher Coll., Yaba, Univ. Coll. Exeter, Trinity Coll. Cambridge and Inst. of Historical

Research, London. Master, Govt. Coll., Ibadan 1941-44; Educ. Officer 1947-50; Asst. Liaison Officer for Nigerian Students in U.K., Colonial Office, London 1951-53; Registrar, Univ. Coll., Ibadan 1953-57; Sec. to Premier and Exec. Council, W. Nigeria 1957-61; Pro-Vice-Chancellor, Univ. of Ife and Dir. Institutes of African Studies and of Public Admin. 1961-65; Vice-Chancellor Designate, Univ. of Zambia Feb.-March 1965; Vice-Chancellor Univ. of Lagos 1965-72, Prof. and Dir. of African Studies 1965; Research Prof. and later Div. Inst. of African Studies, Univ. of Ibadan 1976-; Chair. Cttee. of Vice-Chancellors, Nigeria 1967-70; Vice-Chair, Standing Cttee., Encylopaedia Africana 1967-; mem. Exec. Board Assn. of African Univs. 1967-; Pres. Historical Soc. of Nigeria 1968-; created Are of Iddo, Abeokuta 1958; Hon. Fellow, W. African Assn. of Surgeons 1968. *Publications:* The Origin of the Yoruba 1955, The Egba and their Neighbours 1957, African Studies in [illegible] African University 1963. *Address:* Institute of African Studies, University of Ibadan, Ibadan, Nigeria.

BIRCH, (Albert) Francis, PH.D., F.R.A.S.; American professor of geophysics; b. 22 Aug. 1903, Washington, D.C.; s. of George Albert Birch and Mary C. Hemmick; m. Barbara Channing 1933; [illegible] s. two d.; ed. Harvard Univ. and Univ. of Strasbourg. Research Assoc. in Geophysics, Harvard Univ. 1932-37, Asst. Prof. 1937-43, Assoc. Prof. 1943-46, Prof. 1946-49, Sturgis Hooper Prof. of Geology 1949-74, Emer. Prof. 1974-; Sherman Fairchild Visiting Scholar, Calif. Inst. of Tech. 1975; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosphical Soc. Geological Soc. of America (Pres. 1964), American Geophysical Union, American Physical Soc., Seismological Soc. of America, Geological Soc. of London; Hon. D.Sc. (Univ. of Chicago); Legion of Merit 1945; Day Medal, Geological Soc. of America 1950; Bowie Medal, American Geophysical Union 1960; Nat. Medal of Science 1968; Vetlesen Prize 1968; Penrose Medal, Geological Soc. of America 1969; Gold Medal, Royal Astronomical Soc. 1973. *Publications:* Papers on geophysical topics: elasticity, composition of the Earth's interior, heat flow and geothermal problems, measurements of physical properties of rocks at high pressures and temperatures. *Address:* Hoffman Laboratory, Harvard University, Cambridge, Mass. 02138, U.S.A.

BIRENDRA BIR BIKRAM SHAH DEV, King of Nepal; b. 28 Dec. 1945, Kathmandu; s. of late King Mahendra and Princess Indra; m. Queen Aishwarya Rajya Laxmi Devi Rana 1970; [illegible] s.; ed. St. Joseph's Coll., Darjeeling, Eton Coll., England, Univ. of Tokyo and Harvard Univ.; has travelled extensively throughout Europe, North and South America, U.S.S.R., Iran, Japan, China and several African countries; Grand Master and Col.-in-Chief, Royal Nepalese Army 1964; Supreme Commdr.-in-Chief 1972; Chief Scout, Nepal Boy and Girl Scouts; Chair. Nepal Assn. of Fine Arts; Chancellor Tribhuvan Univ.; numerous decorations; came to the throne 31 Jan. 1972, crowned 24 Feb. 1975. *Leisure interests:* painting, swimming, riding, playing games, parachuting. *Address:* Narayanhity Royal Palace, Kathmandu, Nepal.

BIRKELUND, Palle; Danish librarian; b. 29 Jan. 1912; ed. Københavns Universitet and Aarhus Universitet. Library Asst., State Library, Aarhus and Univ. Library, Copenhagen, Asst. Librarian 1944; UNESCO Fellowship, U.S.A. 1949; Nat. Librarian 1952–; UNESCO consultant, Burma 1968; Chair. Danish Assn. of Research Libraries, Gen. Advisory Council for Research Libraries; mem. Nordic Council for Information and Documentation, etc. *Publications:* Co-editor: Nordisk leksikon for bogvaesen 1947-62, Libri, International Library Review, library [illegible]d bibliographical reviews, etc. *Address:* The Royal Library, Copenhagen (Office); 6 Strandgade 1401 Copenhagen, Denmark (Home). *Telephone:* 101-540189.

BIRKS, Jack, C.B.E., PH.D.; British company director; b. 1 Jan. 1920, Chapeltown, Sheffield; s. of the late Herbert Horace Birks and of Ann Birks; m. Vere Elizabeth Burrell-David 1948; two s. two d.; ed. Ecclesfield Grammar School, Univ. of Leeds; served with REME in Europe and India (despatches, rank of Captain) 1941-46; Exploration Research Div., Anglo-Iranian Oil Co. 1948-57; Man. of Petroleum Eng. Research, BP Research Centre, Sunbury 1957-59; Vice-Pres. Exploration, BP North America 1959-62; various posts then Dir. and Gen. Man. Iranian Oil Exploration and Production Co. 1962-70; Gen. Man. Exploration and Production Dept., British Petroleum Co. Ltd. 1970-72; Tech. Dir. BP Trading Ltd. and Deputy Chair. BP Trading Exec. Cttee. 1972-77; Man. Dir. British Petroleum Co. Ltd. 1978-; *Publications:* articles in journals, scientific papers about oilfields developments and North Sea oil. *Leisure interests:* tennis, cricket, golf. *Address:* 1A Alwyne Road, Canonbury, London, N1 2HH; and Cliff House, Cromer Road, Trimingham, Norfolk, England. *Telephone:* 01-226 4905 (London); Southrepps 338 (Norfolk).

BIRLA, B. M.; Indian industrialist; b. 1904; one of the founders of the Indian Chamber of Commerce and Pres. in 1936 and 1944; founder and Pres. Indian Sugar Mills Assn. and Indian Paper Mills Assn.; mem. Fiscal Comm., Govt. of India; Pres. Fed. of Indian Chambers of Commerce and Industry 1954; fmr. Dir. Central Board Reserve Bank of India and Chair. of Local Board, Eastern Area; Chair. Hindustan Motors Ltd.; Man. Dir. Birla Bros. Private Ltd.; Dir. Ranchi Enterprises and Properties Ltd. *Address:* Birla Bldg., 9/1 R.N. Mukherjee Road, Calcutta 1 (Office); Birla House, 8/9 Alipore Road, Calcutta 27, India (Home).

BIRLĂDEANU, Alexandru; Romanian economist and politician; b. 25 Jan. 1911, Comrat, U.S.S.R.; widower; one s. and d.; ed. Univ. of Taşi. Professor, Head of Dept. of Political Economy, Inst. of Econ. Sciences, Bucharest 1946-51; [illegible] Romanian Communist Party 1936-, [illegible] Cen. Cttee 1955-, alt. mem. Political Bureau 1962-65, mem. 1965-68; mem. Exec. Cttee. and Perm. Presidium 1965-68, Cen. Cttee. of RCP; Sec.-Gen. the Deputy Minister, Ministry of Nat. Economy 1946-48; Minister of Foreign Trade 1948-54; First Deputy Chair., then Chair., State Planning Cttee. 1955; Deputy Chair. Council of Ministers 1955-65, 1967-68, First Deputy Chair. 1965-67; Deputy to Grand Nat. Assembly; Chair. Nat. Council of Scientific Research 1967; [illegible] Acad. of the Socialist Repub. of Romania 1955-; mem., fmr. Pres., Dept. of Econ. Sciences, Acad. of Social and Political Sciences; Hero of Socialist Labour 1964. *Leisure interest:* reading. *Address:* Str. Arh. Cerchez No. 8, Bucharest, Romania.

BIRLEY, Sir Robert, K.C.M.G., M.A.; British professor of rhetoric; b. 14 July 1903, Midnapore, Bengal, India; s. of Leonard Birley and Grace Maxwell-Smith; [illegible] Elinor Margaret Frere 1930; two d.; ed. Rugby and Balliol Coll., Oxford. Asst. master, Eton Coll. 1926-35; Headmaster of Charterhouse 1935-47; Educational Adviser, British Zone of Germany 1947-49; Headmaster of Eton Coll. 1949-63; Visiting Prof. of Educ., Univ. of Witwatersrand 1964-66; mem. Fleming Cttee. 1944; Burge Memorial Lecturer 1947, Reith Lecturer 1949; Gresham Prof. of Rhetoric; Prof. and Head Dept. of Social Science, Univ. of London 1967-70; Chair. Gen. Council of the Selly Oak Colleges 1969-; Hon. Dr. Ing. Berlin Technical Univ., Hon. LL.D. Edinburgh, Witwatersrand, Leeds and Liverpool Univs., Hon. D.Phil. Frankfurt/Main Univ., Hon. D.C.L. Oxford Univ., Hon. D.Sc. Aston Univ. Grosses Bundesverdienstkreuz 1957. *Publications:* Speeches and Documents in American History (4 vols.), The English Jacobins, Sunk Without Trace 1962. *Leisure interests:* old books, travelling in France. *Address:* Lomans, West End, Somerton, Somerset, England. *Telephone:* Somerton 72640.

BIRNBAUM, Hans; German business executive; b. 14 Feb. 1912, Schwetz, Weichsel; s. of Dr. med. Hugo Birnbaum and Erika Birnbaum, née Boege; m. Ingeborg von Lettow 1951; three s. one d.; ed. Univs. of Freiburg, Leipzig and Königsberg. Ministry of Econ. Affairs, Berlin 1939-45; Ministry of Finance, Lower Saxony 1949-50; Fed. Ministry of Finance, Bonn 1950-57; Under-Sec. in Fed. Treasury, Bonn 1957-61; [illegible] Management Board, Salzgitter AG (iron and steel, machinery) 1961-, Chair. of Management Board 1968-; Chair. Supervisory Board Volkswagenwerk AG 1974-, Ruhrkohle AG 1976-. *Address:* Salzgitter AG, 3320 Salzgitter 41, Federal Republic of Germany. *Telephone:* 05341-212399/212499.

BIRNEY, Earle, PH.D., LL.D., O.C., F.R.S.C.; Canadian author; b. 13 May 1904, Calgary, Alta; s. of William G. Birney and Martha Robertson; m. Esther Bull 1940 (divorced 1977); [illegible] s.; ed. Univs. of British Columbia, Toronto, Calif. and London. Lecturer during summer sessions, Univ. British Columbia 1927-34, 1936-37; Instructor in English Univ. of Utah 1930-34; Lecturer, Asst. Prof. of English, Univ. of Toronto 1936-42; Personnel Selection Officer, Canadian Army, retd. with rank of Maj. 1942-45; Supervisor of European Foreign Language Broadcasts, Radio Canada 1945-46; Prof. of English Univ. of British Columbia 1946-62, Prof. of Creative Writing, Head of Dept. 1963-65; Writer in Residence Univ. of Toronto 1965-67, Univ. of Waterloo 1967-68; Regents Prof. of Creative Writing, Univ. of Calif. 1968-; Royal Soc. of Canada Scholarship 1934-36, Gov.-Gen.'s Medal for Poetry 1942, 1945, Leacock Medal for Humour 1949, Canadian Govt. Overseas Fellowship 1953, L. Pierce Medal for Literature 1954, Nuffield Fellowship 1958, Canada Council Travelling Fellowships to Latin America 1962, Australia, N.Z. 1968, Africa, S. Asia 1972, 1974-75, U.K. 1971, 1973, Canada Council Medal 1968. *Publications:* poetry: David 1942, Now is Time 1945, Strait of Anian 1948, Trial of a City 1952, Twentieth Century Canadian Poetry (anthology) 1953, Editor Selected Poetry of Malcolm Lowry 1962, Ice, Cod, Bell or Stone 1962, Near False Creek Mouth 1964, Selected Poems 1966, Pnomes, Jukollages and Other Stunzas 1967, Memory No Servant 1968, Poems of Earle Birney 1969, Rag and Bone Shop 1971, What's So Big About Green? 1973, The Bear on the Delhi Road 1973, Collected

Poems 1975, The Rugging and The Moving Times 1976, Damnations of Vancouver 1977, Alphabeings/poem-drawings 1977, Ghost in the Wheels 1977, Fall by Fury 1978; novels: Turvey 1949, Down the Long Table 1955; short stories: Big Bird in the Bush 1979; criticism: The Creative Writer 1966, The Cow Jumped over the Moon 1972. *Leisure interests:* swimming, travelling. *Address:* Apartment 2201, 200 Balliol Street, Toronto, Canada. *Telephone:* (416) 489-8368.

BIRÓ, József; Hungarian politician; b. 13 Feb. 1921; ed. Economic and Technical Academies, Univ. of Law; former instrument maker, fitter and welder; fmr. Head of Wages Dept., Technical Dept., Imports Dept., Ministry of Foreign Trade; Managing Dir. foreign trade enterprise 1955-57; Head Commercial Dept., Hungarian Legation, London 1957-60; Sec. Party Cttee. of Ministry of Foreign Trade 1960-62, Dep. Minister of Foreign Trade 1962-63. Minister of Foreign Trade 1963-79; mem. State Planning Comm. 1973-; mem. Central Cttee. Hungarian Socialist Workers' Party 1966-. *Address:* c/o Ministry of Foreign Trade, 1054 Honvéd-utca 13-15, Budapest, Hungary. *Telephone:* 126-710.

BIRRENBACH, Kurt, D.IUR.; German business executive; b. 2 July 1907; ed. Paulinum Grammar School, Münster, and Univs. of Geneva, Paris, Munich, Berlin and Münster. Adviser for financial affairs and foreign exchange transactions 1935-39; importer and exporter of steel and steel products, S. America and Germany 1939-54; Chair. Thyssen Vermögensverwaltung GmbH, Düsseldorf 1955–; Vice-Chair. of Supervisory Board, August Thyssen-Hütte A.G., Duisburg-Hamborn 1962-; Vice-Chair. Handelsunion A.G., Düsseldorf; Chair. Fritz Thyssen Stiftung, Cologne; mem. of the Bundestag; Vice-Pres. Atlantic Inst., Paris; official of other firms and int. orgs.; Dr. h.c. (Düsseldorf); Christian Democrat. *Publications:* The Future of the Atlantic Community 1963. *Address:* Düsseldorf, Berliner Allee 33, Federal Republic of Germany. *Telephone:* 81176.

BIRTWISTLE, Harrison; British composer; b. 1934, Accrington, Lancs.; m. Sheila Birtwistle; three s.; ed. Royal Manchester Coll. of Music and Royal Acad. of Music, London. Dir. of Music, Cranborne Chase School 1962-65; Visiting Fellow Princeton Univ. (Harkness Int. Fellowship) 1966; Cornell visiting Prof. of Music, Swarthmore Coll., Pa. 1973-74; Slee Visiting Prof., New York State Univ., Buffalo, N.Y. 1975; Assoc. Dir. Nat. Theatre 1975-; works have been widely performed at the major festivals in Europe including the Venice Biennale, the Int. Soc. of Contemporary Music Festivals in Vienna and Copenhagen, the Warsaw Autumn Festival and at Aldeburgh, Cheltenham and Edinburgh; formed, with Peter Maxwell Davies (*q.v.*), The Pierrot Players. Works: operatic and dramatic: The Mark of the Goat (cantata) 1965-66, The Visions of Francesco Petrarca (sonnets for baritone and orchestra) 1966, Punch and Judy (one-act opera) 1966-67; orchestral works: Chorales for Orchestra 1962-63, Three Movements with Fanfares 1964, Nomos 1968, The Triumph of Time 1970; for instrumental ensemble: Refrains and Choruses 1957, Monody for Corpus Christi 1959, The World is Discovered 1960, Entr'actes and Sappho Fragments 1964, Ring a Dumb Carillon 1965, Tragoedia 1965, Three Lessons in ■ Frame 1967, Verses for Ensembles 1969, Grimethorpe Aria 1973; choral works: Narration: Description of the Passing of ■ Year 1964, Carmen Paschale 1965: also several pieces of instrumental music. *Address:* c/o Alfred A. Kalmus Ltd., Universal Edition (London) Ltd., 2/3 Fareham Street, London, W1V 4DU, England. *Telephone:* 01-437 5203/4/5 (Publisher).

BISAGLIA, Antonio, D.JUR.; Italian politician; b. 31 March 1929, Rovigo; began career in journalism and insurance; Deputy political Sec. Christian Democratic Party 1970-73; Minister of Agriculture 1974, of State Participation 1975-. *Address:* Ministry of State Participation, via Sallustiana 1953, 00187 Rome, Italy.

BISCHOFF, Bernhard, DR. PHIL.; German philologist; b. 20 Dec. 1906, Altendorf, Thuringia; s. of Emil Bischoff and Charlotte (née v. Gersdorff); m. Hanne Oehlerking 1935; two s. two d.; ed. Humanistisches Gymnasium Züllichau (Mark) and Univ. München. Assistant to Prof. E.A. Lowe, Munich 1933-39; Dozent, Munich Univ. 1947, Full Prof. of Medieval Latin Philology 1953-77, Prof. Emer. 1977-; mem. Bayerische Akad. der Wissenschaft, Royal Irish Acad., Medieval Acad. of America, British Acad., Royal Historical Soc., Österreichische Akad. der Wissenschaft, Koninklijke Vlaamse Acad., American Acad. of Arts and Sciences, Royal Danish Acad., Acad. des Inscriptions et Belles-Lettres; D.Litt. h.c. (Dublin and Oxford). *Publications:* Die südostdeutschen Schreibschulen und Bibliotheken ■ der Karolingerzeit I 1940, Libri Sancti Kyliani 1952, Mittelalterliche Studien I/II 1966, 1967, Carmina Burana (facsimile edn.) 1968, Carmina Burana (critical edn.) I, III (with O. Schumann) 1970, Lorsch im Spiegel seiner Handschriften 1974. *Leisure interest:* music. *Address:* 8033 Planegg bei München, Ruffini-Allee 27, Federal Republic of Germany. *Telephone:* 8596631.

BISHARA, Abdulla Yacoub; Kuwaiti diplomatist; b. 1936; m. Miriam Bishara; one s. one d.; ed. Cairo Univ. and Balliol Coll., Oxford. Second Sec., Kuwait Embassy, Tunisia 1963-64; Dir. Office of Ministry of Foreign Affairs, Kuwait 1964-71; Perm. Rep. to UN Sept. 1971-; Amb. (non-resident) to Brazil and Argentina 1974-; del. to numerous int. confs. *Leisure interest:* reading. *Address:* Permanent Mission of Kuwait to the United Nations, 801 Second Avenue, 5th Floor, New York, N.Y. 10017, U.S.A. *Telephone:* 212-687 8284.

BISHOP, Elizabeth, B.A., LL.D.; American poet; b. 8 Feb. 1911; ed. Walnut Hill School, New England, and Vassar Coll., Poughkeepsie, New York. Consultant in Poetry, Library of Congress, Washington D.C. 1949-50; lecturer in England, Harvard Univ. 1970-77; Houghton Mifflin Literary Fellowship, Guggenheim Fellowship, Shelley Memorial Award, Amy Lowell Fellowship, Partisan Review Fellowship, etc.; mem. American Inst. of Arts and Letters; Dr. h.c. (Smith Coll., Rutgers, Brown Univs.); American Acad. of Arts and Letters Award 1951; Pulitzer Prize for Poetry 1956; Acad. American Poets Award 1964; Rockefeller Foundation Award 1966-67; Merrill Foundation Award 1969; Nat. Book Award 1969; Order of Rio Branco (Brazil) 1970; Books Abroad, Neustadt Int. Prize for Lit. 1976; Critics Circle Award 1977. *Publications:* North and South (poems), A Cold Spring 1955, Poems 1955, The Diary of Helena Morley (trans. from Portuguese) 1957 Brazil 1963, Questions of Travel 1965, Complete Poems 1969, Anthology of 20th Century Brazilian Poetry 1972, Georgraphy III 1976. *Address:* c/o Farrar, Straus & Giroux, New York, N.Y. 10003, U.S.A.

BISHOP, Sir George Sidney, Kt., C.B., O.B.E., B.SC.; British company executive; b. 15 Oct. 1913, Wigan, Lancs. (now Greater Manchester) s. of late J. and M. Bishop; m. 1st Marjorie Woodruff (divorced 1961), ■■■ d.; m. 2nd Una Padel 1961; ed. Ashton-in-Makerfield Grammar School, London School of Econs.; social service work in distressed ■■■■ 1935-38; South West Durham Survey 1939; Ministry of Food 1940; Private Sec. to Minister of Food 1945-49; Under-Sec. Ministry of Agric., Fisheries and Food 1949-59, Deputy Sec. 1959-61; Dir. Booker McConnell Ltd. 1961-, Vice-Chair. 1970-71, Chair. 1972-79; Chair. Int. Sugar Council 1957; Vice-Chair. Int. Wheat Council 1959; Chair. Bookers Agricultural Holdings Ltd. 1964-70; Dir. Nigerian Sugar Co. Ltd. 1966-70; mem. Panel for Civil Service Manpower Review 1968-70, Royal Comm. on the Press 1974-77; Dir. Barclays Bank Int. 1972-, Agricultural Mortgage Co. Ltd. 1973-, Barclays Bank 1974-, Rank Hovis McDougall 1976-, Chair. Overseas Devt. Inst. 1977-; Pres. West India Cttee. 1977-; Gov. Nat. Inst. of Econ. and Social Research; mem. Tropical Products Inst., Council of CBI. *Leisure interests:* mountaineering, photography. *Address:* Brenva, Egham's Wood Road, Beaconsfield, Bucks.; and 15 West Eaton Place, London, S.W.1, England. *Telephone:* Beaconsfield 3096; or 01-235 9442 (London).

BISHOP, Maurice; Grenadan politician. Leader New Jewel Movement (Joint Endeavour for Welfare, Education and Liberation) 1972-; Prime Minister of Grenada March 1979-. *Address:* Office of the Prime Minister, St. George's, Grenada.

BISHOP-KOVACEVICH, Stephen; American pianist; b. 17 Oct. 1940, San Francisco; s. of Nicholas and Loreta (née Zuban) Kovacevich; ed. Berkeley High School, Calif.; studied under Lev Shorr and Dame Myra Hess; London début 1961; subsequently appeared at int. music festivals in Edinburgh, Bath, Harrogate, Berlin, San Sebastian and Salzburg; ■ soloist at Henry Wood Promenade Concerts for fourteen seasons; tours frequently in Europe and America; numerous recordings; winner of Kimber Award, Calif. 1959, Mozart Prize, London 1962, Edison Award (for recording of Bartok's 2nd. Piano Concerto). *Publication:* Schubert Anthology. *Leisure interests:* table tennis, tennis, chess, cinema, Indian food. *Address:* c/o Harrison/Parrott Ltd., 22 Hillgate Street, London W8, England. *Telephone:* 01-229 9166.

BISMARCK, Klaus von; German radio executive; b. 6 March 1912, Jarchlin; s. of Gottfried and Gertrud von Bismarck (née Kahn); m. Ruth-Alice von Wedemeyer 1939; seven s. one d.; ed. High School, Doberan, agricultural education (training); army training 1934-38; continued agricultural studies 1938-39; Second World War service rising to Lieut.-Col. and commdr. of infantry regt. 1939-45, prisoner-of-war 1945; Dir. Juvenile Welfare Office, Herford 1945-46, Jugendhof (Youth Leader Training Centre) Vlotho a.d. Weser 1946-49; Dir.-Gen. Westdeutscher Rundfunk 1961-76; Pres. Goethe-Institut, Munich 1976-; mem. Board of Trustees Int. Broadcasting Inst., Senate, Max Planck-Gesellschaft;

Hon. D. Theol. (Münster); Freiherr v. Stein Prize for social work 1954. *Publications:* Papers on sociology and theology. *Leisure interests:* music, books, tennis, skiing, horseriding and other sports, dancing. *Address:* Lenbachplatz 3, 8 Munich 2, Federal Republic of Germany.

BISPLINGHOFF, Raymond Lewis; American aeronautical engineer; b. 7 Feb. 1917, Hamilton, Ohio; s. of Roscoe Earl Bisplinghoff and Isabelle Lewis Bisplinghoff; m. Ruth Doherty 1943; two s.; ed. Eidgenössische Technische Hochschule, Zürich, and Univ. of Cincinnati. Engineer, Aeronca Aircraft Corpn. 1937-40, Wright Field 1940-41; Instructor, Univ. of Cincinnati 1941-43; Engineer, Bureau of Aeronautics, Navy Dept., Washington 1943-46; Asst. Prof. Massachusetts Inst. of Technology 1946-48, Assoc. Prof. 1948-53, Prof. 1953; mem. Scientific Advisory Board, United States Air Force; mem. Cttee. of NASA (Nat. Aeronautics and Space Admin.), Dir. Office of Advanced Research and Technology, NASA until Nov. 1963, Assoc. Administrator for Advanced Research and Technology Nov. 1963-, Special Asst. to Administrator 1965-; mem. Nat. Acad. of Engineering 1965; Consultant to Admin., Fed. Aviation Agency 1965-; Prof. and Head, Dept. of Aeronautics and Astronautics, Massachusetts Inst. of Technology 1966-68; Dean, School of Engineering, M.I.T. 1968-70; Deputy Dir. Nat. Science Foundation 1970-74; Chancellor, Univ. of Missouri at Rolla 1974-77; Pres. American Inst. of Aeronautics and Astronautics 1966, Int. Council of the Aeronautical Sciences (ICAS); Chair. NASA Research and Technology Advisory Council, Aeronautics and Space Engineering Board, USAF Scientific Advisory Bd. North- [redacted] Energy Corpn.; Vice-Chair. Sonic Boom Cttee., Nat. Acad. of Sciences; Dir. Allied Research Assocs., Allied Systems Ltd., General Aircraft Corpn., Engineering Council for Professional Devt.; Vice-Pres. Int. Astronautical Fed.; mem. Science Advisory Council, Nat. Acad. of Sciences, Nat. Science Bd., Defense Science Bd., United Aircraft Corpn., Int. Acad. of Astronautics, Space Medicine Cttee.; U.S. mem. Int. Council of Aeronautical Sciences; mem. of Council, Nat. Acad. of Engineering; Fellow, American Astronautical Soc., American Acad. Arts and Sciences, Royal Areonautical Soc.; Hon. Fellow, American Inst. of Aeronautics and Astronautics; various hon. degrees; NASA Distinguished Service Medal 1967, Federal Aviation Agency Extraordinary Service Medal 1968, NASA Apollo Achievement Award 1969. *Publications:* Three books and many papers in the field of aeronautics and astronautics. *Leisure interests:* sailing, flying (private pilot). *Address:* Tyco Laboratories, Tyco Park, Exeter, N.H. 03833, U.S.A.

BISSELL, Claude T(homas), C.C., PH.D.; Canadian university administrator; b. 10 Feb. 1916, Meaford, Ont.; s. of George Thomas Bissell and Maggie Editha (Bowen) Bissell; m. Christina Flora Gray 1945; one d.; ed. Runnymede Collegiate Inst., Toronto, Cornell and Toronto Univs. Reuben Wells Leonard Fellowship 1936, Cornell Fellowship 1937; Instructor in English, Cornell Univ. 1938-41; Lecturer in English, Toronto Univ. 1941-42; served in Canadian Army in Europe 1942-45; on staff of Khaki Coll. England 1945-46; Asst. Prof. of English, Dean in Residence, Univ. Coll. Toronto Univ. 1947; Asst. to Pres. Toronto Univ. 1948, Assoc. Prof. 1951, Vice-Pres. of Univ. 1952-56, Pres. 1958-71, Univ. Prof. 1971-; Pres. Carleton Univ., Ottawa 1956-58; Chair. Canada Council 1960-62; Pres. Nat. Conf. Canadian Univs. and Colls., World Univ. Service of Canada 1962-63; Chair. Canadian Univs. Foundation 1962-63; Visiting Prof. of Canadian Studies on William Lyon Mackenzie King Endowment, Harvard Univ. 1967-68; Chair. Carnegie Foundation for Advancement of Teaching; Hon. [redacted]. American Acad. of Arts and Sciences 1968; Hon. D.Litt. (Manitoba, Laval, Western Ont., Lethbridge, Leeds), Hon. LL.D. (McGill, Queen's, New Brunswick, Carleton, Montreal, St. Lawrence, British Columbia, Michigan, York, Windsor and Columbia Univs.); Companion of the Order of Canada 1969. *Publications:* Great Canadian Writing 1966, The Strength of the University 1968, Halfway Up Parnassus, A Personal Account of the University of Toronto, 1932-1971, Editor and Contrib. to University College: A Portrait 1853-1953, Canada's Crisis in Higher Education, Our Living Tradition; many articles. *Leisure interests:* swimming, photography. *Address:* Simcoe Hall, University of Toronto, Toronto 5 (Office); 229 Erskine Avenue, Toronto, Ont. M4P 1Z5, Canada (Home). *Telephone:* 928-6446 (Office); 483-9616 (Home).

BISSINGER, Frederick Lewis, M.E., M.S., J.D.; American chemical executive; b. 11 Jan. 1911, New York; s. of Jacob Frederick Bissinger and Rosel (Ensslin) Bissinger; m. Julia E. Stork 1935; one s. one d.; ed. Stevens Inst. of Technology and Fordham Univ. Chemistry Instructor, Stevens Inst. of Technology 1933-36; Lawyer, Pennie, Davis, Marvin & Edmonds 1936-42; various exec. positions, including Pres., Industrial Rayon Corpn. 1942-61; Group Vice-Pres. Midland-Ross Corpn. 1961-62; Vice-Pres. and Dir. Stauffer Chem. Corpn. 1962-65; Vice-Pres. Allied Chemical Corpn. 1965-66, Dir. 1966-76, Exec. Vic-Pres. 1966-69, Pres. 1969-74, Vice-Chair. 1974-76; Counsel to Pennie & Edmonds 1976-; Chair. Bd. Trustees, Stevens Inst. of Tech.; Dir. Midlantic Nat. Bank, Neptune Int. Corpn., Nat. Starch and Chem. Corpn. Selas Corpn. *Address:* 44th Floor, 1221 Avenue of the Americas, New York, N.Y. 10020, U.S.A. *Telephone:* 212-868-7996.

BISTA, Kirti Nidhi, M.A.; Nepalese politician; b. 1927; ed. Tri-Chandra Coll., Kathmandu and Lucknow Univ. Assistant Minister for Education 1961-62, Minister for Educ. 1962-64, for Foreign Affairs 1964; Vice-Chair. Council of Ministers and Minister for Foreign Affairs and Educ. 1964-66; Vice-Chair. Council of Ministers and Minister for Foreign Affairs and Econ. Planning 1966-67; Deputy Prime Minister and Minister for Foreign Affairs and Educ. 1967-68, Perm. Rep. to UN 1968-69; Prime Minister 1969-70, 1971-73, 1977-79, Minister of Finance, Gen. Admin. and Palace Affairs 1969-73, of Finance, Palace Affairs and Defence 1978-79; mem. Royal Advisory Cttee. 1969-70; Leader Nepalese Dels. to UN Gen. Assemblies 1964, 1965, 1966, and to UNESCO Gen. Confs. 1962, 1964, 1966, and to various other confs; accompanied H.M. the King on many State Visits; Order of the Right Hand of Gurkhas (First Class), Fed. German Order of Merit, Légion d'honneur. *Address:* Kshetra Pati, Kathmandu, Nepal.

BISKU, Béla; Hungarian politician; b. 13 Sept. 1921, Márok, Bereg. Communist Party official 1944; Staff mem., later Head of Dept. of Cadres, Budapest Party Cttee. 1946-51; Sec. Budapest Party Cttee. 1951-53; Minister of Home Affairs 1957-61; Deputy Prime Minister 1961-62; mem. Political Cttee., Hungarian Socialist Workers' Party 1957-, Sec. Central Cttee. 1962-78; Order of Merit. *Publications:* Topical Points of the Proletarian Dictatorship in Hungary 1957, The 21st Congress of the Soviet Communist Party and its Effects on the International Workers Movement 1959, What are the Party's Tasks in carrying the Resolutions of the 8th Congress into Effect? 1963, The Party and the State in the Service of the People 1972. *Address:* Vasas Szakszervezet, Iron Workers Union, Budapest 8, Koltói Anna-utca 5/7, Hungary. *Telephone:* 135-205.

BITAR, Salah ad-Din al-; Syrian politician; b. 1912; ed. Damascus and Univ. of Paris. Secondary school teacher in Damascus 1934-42; entered politics 1942; co-founder, with Michel Aflaq, of Arab Resurrection Party and Editor of party organ; left Syria after Shishekly coup 1952; later returned and took part in merging of Renaissance and Socialist parties to form Baath Party; elected to Parliament after overthrow of Shishekly 1954; Minister of Foreign Affairs 1956; head of Syrian Del. to UN Gen. Assembly 1957; Minister of Culture and Nat. Guidance, U.A.R. 1958-59; Prime Minister of Syrian Arab Republic March-11 May 1963, 13 May-Nov. 1963, May-Oct. 1964, Jan.-Feb. 1966; concurrently Minister of Foreign Affairs May-Nov. 1963; Vice-Pres. Council of Revolutionary Command 1963-64; expelled from Baath Party Oct. 1966, in exile, returned to Syria Dec. 1977. *Address:* Damascus, Syria.

BITSIOS, Dimitri S.; Greek diplomatist and politician; b. 1915; m.; one s. [redacted] d.; ed. Univ. of Athens; entered Diplomatic Service 1939, served Cairo, London and New York; Head, Economic Section, Ministry of Foreign Affairs; Head, 4th Political Dept., Ministry of Foreign Affairs; Del. to UN 1956-61, Perm. Rep. 1961-65, 1967-72; Head, 1st Political Dept., Ministry of Foreign Affairs 1965; Private Sec. to King of the Hellenes 1966; resigned from Diplomatic Service 1972; Under-Sec. of State July-Oct. 1974; Minister of Foreign Affairs 1974-77; Order of George I and of the Phoenix; Distinguished Service Medal. *Publications:* Egypt and the Middle East, Greek Diplomatic History, Cyprus in Critical Hours 1974. *Leisure interests:* collecting stamps and medals. *Address:* 157 Papanastasiou Street, P, Psychico, Athens, Greece. *Telephone:* 6715333.

BIYA, Paul, L. EN D.; Cameroon politician; b. 13 Feb. 1933, Mvomeko; m. Jeanne (née Atacham); ed. Ndem Mission School, Edea and Akono Seminaries, Lycée Le Clerk, Yaoundé, Univ. of Paris. Head of Dept. of Foreign Devt. Aid 1962-63; Dir. of Cabinet in Ministry of Nat. Educ. 1964-65; on goodwill mission to Ghana and Nigeria 1965; Sec.-Gen. in Ministry of Educ., Youth and Culture 1965-67; Dir. of Civil Cabinet of Head of State 1967-68; Minister of State, Sec.-Gen. to Pres. 1968-75; Prime Minister June 1975-; Chevalier de l'Ordre de la Valeur Camerounaise, Commdr. of Nat. Order of Fed. Repub. of Germany and of Tunisia; mem. Union Nationale Camerounaise (UNC). *Address:* Office of the Prime Minister, Yaoundé, Cameroon.

BIZOT, Henry; French banker; b. 27 Aug. 1901; ed. Inst. Sainte-Croix, Neuilly-sur-Seine. Inspector of Finances 1925; Asst. Sec.-Gen. Comptoir national d'escompte de Paris 1930-59, Dir.-Gen. 1959-62, Admin. Dir.-Gen. 1962-63, Vice-Pres. Dir.-Gen. 1963-64, Pres. 1964-; Pres. Banque nationale de Paris 1966-71, Hon. Pres.

1971-; Chair. Unival; Dir. numerous companies including Banque industrielle de l'Afrique du Nord, Didot-Botton, Idéal-Standard; Commdr. Légion d'honneur, Grand officier de l'Ordre du Mérite, Croix de guerre. *Address:* 76 [illegible] Raymond-Poincaré, Paris 16e, France.

BJARNASON, Matthias; Icelandic businessman and politician; b. 15 Aug. 1921, Isafjordur; s. of Bjarni Bjarnason and Audur Johannesdóttir; m. Kristin Ingimundardóttir 1944; one d. one s.; ed. Commercial Coll. of Iceland. Man. ferry co., Isafjordur 1942-68, Isafjordur Fishing Vessels' Mutual Insurance Soc. 1960-74; Man. Kögur Fishing Co. 1959-66; mem. Board Isfirdingur Fishing Co. 1947-59, Chair. 1950-59; mem. Isafjordur Town Council 1946-70, Chair. 1950-52; Chair. Board Isafjordur Electric Power Works 1946-51; Editor Vesturland 1953-59; mem. Board Union of Icelandic Fishing Vessel Owners 1962-74, also other owners' socs.; [illegible] Cttee. State Shipping Authority 1966-; Supplementary mem. Althing 1963-67, mem. for West Fjords 1967-; Chair. Icelandic Fishing Vessels Joint Insurance Inst. 1967-74; mem. Board Icelandic Fish Industries Fund 1969-74, Employment Equalization Fund 1970-71, Econ. Devt. Inst. 1972-; Chair. Exec. Cttee. Fish Industry Board 1968-74; mem. Independence Party, on Cen. Cttee. 1970-; Minister of Fisheries, Health and Social Security 1974-78. *Leisure interests:* reading, travelling. *Address:* Tjaldanes 5, Gardabaer, Iceland.

BJARNASON, Sigurdur; Icelandic diplomatist; b. 18 Dec. 1915, Vigur; m. Ólöf Pálsdóttir Bjarnason; one s. [illegible] d. ed. Univ. of Iceland, Univ. of Cambridge. Editor of weekly newspaper 1942-47; Political Editor Morgunbladid 1947-56, Editor-in-Chief 1956-70; mem. of Icelandic Parl. (Althing) 1942-70, Pres. of Lower House 1949-56, 1963-70; Chair., Parl. Cottee. on Foreign Affairs 1963-70; Amb. to Denmark 1970-76, to Turkey 1970-76, to China 1973-76, to Ireland 1970-, to U.K., Nigeria and the Netherlands 1976-; Pres. of Icelandic Section, Soc. for Int. Understanding 1965-70; mem. of Nordic Council 1952-59, 1963-70, Vice-Pres. 1952-56, 1959, Pres. 1965 and 70; mem of Cultural Cttee. of the Nordic Countries 1954-70, of Icelandic Cttee. on Territorial Rights 1957-58; del to UN Gen. Assembly 1960, 1961 and 1962; Hon. Emblem of the Foundation of the Icelandic Republic 1944; Commdr. with Star, Order of Icelandic Falcon 1950; Commdr. of the Finnish Lion 1958; Commdr. of the Swedish Order of the Vasa 1958; Grand Cross, Danish Order of Dannebrog 1970. *Publications:* various articles on culture and Scandinavian co-operation. *Leisure interests:* reading, swimming. *Address:* Icelandic Embassy, 1 Eaton Terrace, London SW1W 8EY; 101 Park Street, London, W1, England (Residence). *Telephone:* 01-629 8660 (Residence).

BJELKE-PETERSEN, Hon. Johannes; Australian politician; b. 13 Jan. 1911, Dannevirke, New Zealand; s. of Carl G. and Maren (née Poulsen) Bjelke-Petersen; m. Florence Gilmour 1952; one s. three d.; ed. Taabinga Village Primary School, correspondence courses and private studies. Farmer; mem. Queensland Legislative Assembly 1947-; Minister for Works and Housing, Queensland 1963-68, later of Aboriginal and Island Affairs, and Police; Leader of Country (now National) Party of Queensland Aug. 1968-; Premier of Queensland 1968-. *Leisure interests:* flying, reading, bush-walking. *Address:* Office of the Premier, Executive Building, Brisbane, Queensland 4000, Australia.

BJERVE, Petter Jakob, CAND. ECON., D.PHIL.; Norwegian economist and fmr. politician; b. 27 Sept. 1913, Stjördal; s. of Petter Jakob Bjerve and Kristine Arnstad; m. Rannveig Bremer 1942; three s.; ed. Univ. of Oslo. Research Asst. Economics Inst., Oslo Univ. 1939-40; Research Fellow, Oslo Univ. 1945-49; Chief of Div. Ministry of Finance 1945-49; Dir.-Gen. Central Bureau of Statistics of Norway 1949-60, 1963-; Visiting Prof., Stanford Univ. 1954-55; Minister of Finance 1960-63; mem. advisory missions to Zambia 1964, Sri Lanka 1971; Adviser to the Govt. of Pakistan 1968-69, Bangladesh 1973, Sri Lanka 1976-77; mem. Labour Party. *Publications:* Hva krigen kostet Norge (What the War Cost Norway) 1945, Government Economic Planning and Control 1950, Planning in Norway 1947-56 1959, Trends in Norwegian Planning 1945-1975 1976, 2 Addresses on Statistical Co-operation 1976. *Address:* Central Bureau of Statistics, Oslo; Breidablikkvn. 10b, Oslo 11, Norway. *Telephone:* 283759.

BJÖRK, Anita; Swedish actress; b. 25 April 1923, Tällberg Dalecarlia; m. Stig Dagerman (deceased); one s. two d.; ed. Royal Dramatic Theatre School, Stockholm; numerous stage appearances at Royal Dramatic Theatre, Stockholm, including Miss Julie 1948, Agnes (Brand, Ibsen), Celia (The Cocktail Party, Eliot), Rosalind (As You Like It, Shakespeare), Juliet (Romeo and Juliet, Shakespeare), Eliza (Pygmalion, Shaw), Solange (Les Bonnes, Genet), The girl (Look Back in Anger, Osborne), Johanna (Les séquestrés d'Altona, Sartre). *Films acted in include:* Himlaspelet 1942, Räkna de lyckliga stunderna blott (Count Your Blessings) 1944, Hundra dragspel och en flicka (One Hundred Concertinas and a Girl) 1946, Ingen väg tillbaka (No Return) 1947, Kvinna utan ansikte 1947, Det kom en gäst (There Came a Guest) 1947, På dessa skuldror (On these Shoulders) 1948, Människors rike (The Realm of Men and Women) 1949, Kvartetten [illegible] sprängdes (The Quartet that was Broken) 1950, Fröken Julie 1950-51, Han glömde henne aldrig 1952, Night People 1953, Die Hexe 1954, Giftas 1955, Der Cornet 1955, Moln över Hellesta (Dark Clouds over Hellesta) 1956, Sängen om den eldröda blommen 1956, Gäst i eget hus (Guest in One's Own House) 1957, Mannekäng i rött 1958, Tärningen är kastad 1960, Goda vänner trogna grannar 1960, Vita frun 1962, Älskande par 1964. *Address:* Baggensgatan 9, 1131 Stockholm, Sweden.

BJÖRNSSON, Henrik Sv., LL.B.; Icelandic diplomatist; b. 2 Sept. 1914, Reykjavík; s. of Sveinn Björnsson and Georgia Björnsson (née Hoff-Hansen); m. Groa Torfhildur Jonsdóttir 1941; one s. two d.; ed. Univ. of Iceland; graduated in law and joined Foreign Service 1939, served Copenhagen, Reykjavik, Washington 1939-44; Head of Dept. Ministry of Foreign Affairs, Reykjavík 1944-47; Sec. Oslo 1947-49; Counsellor, Paris 1950-52; Sec. to Pres. of Iceland 1952-56; Sec.-Gen. Ministry of Foreign Affairs 1956-61; Amb. to Great Britain and Netherlands and Minister to Spain and Portugal 1961-65; Amb. to Belgium and Perm. Rep. to NATO 1965-67, Council of Europe 1968-70; Amb. to France, concurrently to Luxembourg, Yugoslavia, Egypt and Ethiopia, and Perm. Rep. to OECD and UNESCO 1975-76; Perm. Under-Sec. Ministry of Foreign Affairs 1976-; Kt. Commdr. Order of Icelandic Falcon, Grand Cross, Orders of Lion (Finland), Mérito Civil (Spain), Couronne (Belgium), Mérite (France), Mérite, (Luxembourg), Hon. K.B.E. and other foreign decorations. *Address:* Ministry for Foreign Affairs, Reykjavík, Iceland. *Telephone:* 25000.

BJÖRNSTRAND, (Knut) Gunnar; Swedish actor; b. 13 Nov. 1909, Stockholm; s. of Oscar Johansson and Ellen Maueleon; m. Lillie Lundahl 1935; three d.; ed. Royal Dramatic School, Stockholm. First stage appearance at Swedish theatre, Vasa, Finland 1936; worked at several theatres in Stockholm; began film career in A Night in the Harbour 1941; Guest artist, Royal Dramatic Threatre 1948: first worked with Ingmar Bergman (*q.v.*) 1951, playing leading parts in many of his films; appeared at Vasa Theatre, Stockholm in Plaza Suite 1969; Swedish Film Soc. Gösta Ekman Prize 1963; Chaplin Magazine "Oscar" for The Seventh Seal and others. *Films include:* A Lesson in Love 1954, Smiles of a Summer Night 1955, The Seventh Seal 1956, Through a Glass Darkly 1961, Winter Light 1962, Persona 1966, The Shame 1968, The Girls, The Rite (TV), Isola, The Face, The Eye of the Devil, Wild Strawberries, Face to Face. *Leisure interests:* fishing, sailing, art-collecting, music, literature. *Address:* Odengatan 44, 11351 Stockholm; Jungfrugatan 45, Stockholm, Sweden. *Telephone:* 08-371840 and -606563.

BJØRNVIG, Thorkild Strange, DR. PHIL.; Danish poet and writer; b. 2 Feb. 1918; s. of Adda and Theodor Bjørnvig; m. 1st Grete Damgaard Pedersen 1946, 2nd Birgit Hornum 1970; two s. one d.; ed. Cathedral School, Aarhus, and Univ. of Aarhus. Member Danish Acad. 1960; several prizes. *Publications:* poetry; Stjaernen bag gavlen 1947, Anubis 1955, Figur og Ild 1959, Vibrationer 1966, Ravnen 1968, Udvalgte digte 1970; essays: Rilke og tysk Tradition 1959, Begyndelsen 1960, Kains Alter 1964, Oprør mod neonguden 1970, Virkeligheden [illegible] til 1973, Pagten, mit venskab med Karen Blixen 1974, Delfinen 1975, Stoffets Krystalhav 1975, Det religiøse menneskes ansigter 1975. *Address:* Issehoved, 8795 Nordby, Denmark. *Telephone:* 06596259.

BLACK, Baron (Life Peer), cr. 1968, of Barrow-in-Furness; **William Rushton Black,** Kt.; British business executive; b. 12 Jan 1893, Barrow-in-Furness; m. Patricia Margaret Dallas 1917 (died 1976); one s. (deceased) one d.; ed. Barrow Secondary School, Barrow Technical Coll.; with Vickers Ltd. 1908-28; Man. Weymanns Motor Bodies 1928; Gen. Man. Park Royal Vehicles Ltd. 1934-39, Man. Dir. 1939; Dir. Associated Commercial Vehicles Ltd. 1949, Man. Dir. 1957 also Chair.; A.E.C. Ltd. 1958, Leyland Motor Corpn. 1963-67, Park Royal Vehicles Ltd. *Leisure interests:* golf, gardening. *Address:* Birchwood Grange, Ruxley Crescent, Claygate, Surrey, England.

BLACK, Sir Douglas Andrew Kilgour, M.D., F.R.C.P.; British physician; b. 29 May 1913, Delting, Shetland; s. of Rev. Walter Kilgour Black and Mary Jane Crichton; m. Mollie Thorn 1948; one s. two d.; ed. St. Andrews Univ. Lecturer, Reader and Prof., Dept. of Medicine, Manchester Univ. 1946-77, Sir Arthur Sims Commonwealth Travelling Prof. 1971; on secondment [illegible] Chief Scientist, Dept. of Health and Social Security 1972-77; Pres. Royal Coll. of

Physicians, London), 1977-; Lectureships (Royal Coll. of Physicians, London): Goulstonian 1953, Bradshaw 1965, Lumleian 1970, Harveian 1977. *Publications:* The Logic of Medicine 1968, Essentials of Fluid Balance (4th edn.) 1967; Editor Renal Disease 1972, 1979. *Leisure interests:* reading and writing. *Address:* c/o Royal College of Physicians, 11 St. Andrew's Place, Regents Park, London, NW1 4LE, England. *Telephone:* 01-935 1174.

BLACK, Eugene R., B.A.; American banker; b. 1 May 1898; ed. Univ. of Georgia. Served First World War; later associated with Harris, Forbes & Co. N.Y. investment bankers; Man. Atlanta Office Chase-Harris, Forbes Corpn. 1931, Asst. Vice-Pres. 1933; Second Vice-Pres. Chase Nat. Bank N.Y. 1933, Vice-Pres. 1937-47, Dir. and consultant Chase Manhattan Bank 1963-70; Exec. Dir. for U.S. Int. Bank for Reconstruction and Development 1947-49; Senior Vice-Pres. Chase Nat. Bank N.Y. March-June 1949; Pres. and Chair. Int. Bank for Reconstruction and Devt. 1949-63, Int. Finance Corpn. 1961-63; Special Financial Consultant to Sec.-Gen. of UN 1963-; Consultant American Express Co. 1970-77; Chair. and Dir. Scandinavian Securities Corpn. 1976-; Dir. numerous companies 1963-; many nat. and int. awards. *Publications:* The Diplomacy of Economic Development, Alternative in Southeast Asia 1969. *Address:* American Express Plaza, New York, N.Y. 10004 (Office); 178 Columbia Heights, Brooklyn, N.Y. 11201, U.S.A. (Home).

BLACK, Shirley Temple; American actress and diplomat; b. 23 April 1928, Santa Monica, Calif.; d. of George F. and Gertrude Temple; m. 1st John Agar, Jr. 1945 (dissolved 1949), one d.; m. 2nd Charles A. Black 1950, two c.; ed. privately and Westlake School for Girls. Career ■ film actress commenced at 3½ years; first full-length film ■■ Stand Up and Cheer; narrator/actress in TV series Shirley Temple Storybook 1958; hostess/actress Shirley Temple Show 1960; Del. to UN, New York 1969-70; Amb. to Ghana 1974-76, White House Chief of Protocol 1976-77; mem. US Comm. for UNESCO 1973-; Dir. Nat. Multiple Sclerosis Soc.; Dame, Order of Knights of Malta (Paris) 1968; numerous state decorations. *Films include:* Little Miss Marker, Baby Take ■ Bow, Bright Eyes, Our Little Girl, The Little Colonel, Curly Top, The Littlest Rebel, Captain January, Poor Little Rich Girl, Dimples, Stowaway, Wee Willie Winkie, Heidi, Rebecca of Sunnybrook Farm, Little Miss Broadway, Just Around the Corner, The Little Princess, Susannah of the Mounties, The Blue Bird, Kathleen, Miss Annie Rooney, Since You Went Away, Kiss and Tell, That Hagen Girl, War Party, The Bachelor and the Bobby-Soxer, Honeymoon. *Address:* Woodside, California, U.S.A.

BLACKIE, William; American business executive; b. 1 May 1906, Glasgow, Scotland; s. of William and Catherine Hyne Blackie; m. Florence M. Hewens 1934; one s.; ed. Scotland; apprenticed to chartered accountant, Glasgow, Scotland 1924-29; Price, Waterhouse & Co., Chicago 1930-39; Controller, Caterpillar Tractor Co., Peoria, Ill. 1939-44, Vice-Pres. 1944-45, Exec. Vice-Pres. 1954-62, Dir. 1958-, Pres. 1962-66, Chair. and Chief Exec. Officer 1966-72; Chair. Marconaflo Inc. 1974-; Man. Dir. Lehman Brothers Kuhn Loeb Inc. *Address:* 1 Bush Street, San Francisco, Calif. 94104, U.S.A.

BLACKMAN, Donald George, PH.D.; Barbadian diplomatist and fmr. professor of African studies; b. 22 May 1935; ed. Lincoln's Inn, London, York Univ., Toronto, New York Univ., New School for Social and Econ. Research, New York; served in Barbados, U.K. and Canadian Civil Services 1955-58; Tutor, New York Dept. of Foster Care 1968-69; Lecturer in Afro-American History and Literature, Long Island Univ. 1969-70; Instructor in Philosophy and Social Science, State Univ. of New York at Stony Brook 1970-71; Chair. and Assoc. Prof., African Studies Dept., State Univ. of New York 1971-76; Perm. Rep. to UN 1976-78; Minister of Labour and Community Services 1978-. *Address:* c/o Ministry of Labour and Community Services, Georgetown, Barbados.

BLACKMAN, Geoffrey Emett, M.A., F.R.S.; British agricultural scientist; b. 17 April 1903, London; s. of Prof. V. H. Blackman and Edith Delta Emett; m. Audrey Babette 1931; ed. King's Coll. School and St. John's Coll., Cambridge. Head of Botany Section, Jealott's Hill Agricultural Research Station, Warfield, Berks. 1927-35; Lecturer in Ecology, Imperial Coll. of Science and Technology 1935-45; Sec. Biology War Cttee. 1942-46; Sibthorpian Prof. of Rural Econ. and Head of Dept. of Agricultural Science, Oxford Univ. 1945-70, now Prof. Emer.; Hon. Dir. Agricultural Research Council Unit of experimental agronomy concerned with introduction of new crops, principles of selective toxicity and devt. of selective herbicides 1941-70; Del. of Clarendon Press 1950-70; Chair. Advisory Cttee. enquiring into Production Devt. and Consumption Research in Natural Rubber Industry 1956; mem. Biological Sciences Sub-Cttee. of Univ. Grants Cttee. 1968-70; Fellow of Royal Soc. 1959, Vice-Pres. 1966-68; U.S. Nat. Acad. of Sciences Cttee. on the effects of herbicides in Vietnam. *Publications:* Papers in scientific journals on agricultural, ecological, physiological and statistical investigations. *Leisure interests:* gardening with the Ericaceae, collecting water-colours. *Address:* Woodcroft, Foxcombe Lane, Boars Hill, Oxford, England. *Telephone:* Oxford 735148.

BLACKMUN, Harry A.; American judge; b. 12 Nov. 1908, Nashville, Ill.; s. of Corwin Manning ■■d Theo Huegely (Reuter) Blackmun; m. Dorothy E. Clark 1941; three d.; ed. Harvard Univ. and Harvard Law School; admitted to Minnesota Bar 1932; private legal practice until 1950; Instructor, William Mitchell Coll. of Law 1935-41 Univ. of Minnesota Law School 1945-47; Judge, U.S. Court of Appeals Eighth Circuit 1959-70; Assoc. Justice U.S. Supreme Court 1970-; mem. American Bar Assn., Minnesota State, Third Judicial District (Minn.) and Olmsted County (Minn.) Bar Asscns., American Judicature Soc.; Hon. LL.D. (DePauw, Drake, Hamline and Ohio Wesleyan Univs., Morningside Coll., Wilson Coll., Dickinson School of Law, Ohio Northern, Southern Ill., Pepperdine, Emory Univs.); D.H.L. (Oklahoma City Univ.) mem. Faculty, Salzburg Seminar in American Studies (Law) 1977. *Address:* United States Supreme Court, Washington, D.C. 20543, U.S.A.

BLACKWELL, Sir Basil Henry, Kt., M.A., J.P.; British bookseller and publisher; b. 29 May 1889, Oxford; s. of Benjamin Henry Blackwell and Lydia (née Taylor); m. Marion Christine Soans 1914; two s. three d.; ed. Magdalen Coll. School and Merton Coll., Oxford. President, Basil Blackwell and Mott Ltd. 1922-69; Chair. B. H. Blackwell Ltd. 1924-69, Pres. 1969-, and Blackwell Scientific Publications Ltd. 1939-72; Pres. Antiquarian Booksellers Assn. 1925 and 1926, Associated Booksellers of Great Britain and Ireland 1934 and 1935, The Classical Assn. 1965, The English Assn. 1970; Offcier d'Académie; Hon. Fellow, Merton Coll., Oxford; Hon. LL.D. (Manchester) 1965, Hon. D.C.L. (Oxford) 1979; Hon. Freeman of Oxford City 1970; Hon. ■■■ Stationers' Co. 1972. *Leisure interest:* reading. *Address:* Osse Field, Appleton, Abingdon, Oxon., England.

BLACKWOOD, Sir Robert (Rutherford), Kt., M.C.E., B.E.E., F.I.E.A.; Australian business executive; b. 3 June 1906, Melbourne; s. of late Robert Leslie Blackwood and Muriel Pearl Blackwood (née Henry); m. Hazel Lavinia McLeod 1932; one s. one d.; ed. Melbourne Church of England Grammar School, Melbourne Univ. Testing Officer, Engineering School, Univ. of Melbourne 1928-30, Lecturer Agricultural Engineering 1931-33, Prof. of Mechanical Engineering 1947; Research Engineer Dunlop Australia Ltd. 1933-36, Technical Man. 1937-46, Gen. Man. 1948-66; Chair. Interim Council, Monash Univ. 1959-61, First Chancellor 1961-68; Dir. Humes Ltd. 1966-; Trustee, Asian Inst. of Tech., Bangkok 1967-; Chair. Board of Dirs., Steel Mains Pty. Ltd. 1970-76; Pres. Nat. Museum of Victoria Council 1970-78, Chair. Bd. of Dirs. 1972-; Pres. Royal Soc. of Victoria 1973-75; Hon. LL.D. (Monash); Peter Nicol Russell Memorial Medal 1966. *Publications:* Monash University: The First Ten Years 1968, Beautiful Bali 1970, and scientific papers. *Leisure interests:* archaeology, painting. *Address:* 8 Huntingfield Road, Middle Brighton, Victoria 3186, Australia. *Telephone:* 92-5925.

BLAGOY, Dmitriy Dmitriyevich; Soviet literary historian; b. 28 Jan. (9 Feb., new style) 1893, Moscow. ed. Moscow Univ.; mem. Acad. Pedagogical Sc. RSFSR 1947-; Prof. Moscow Univ. 1943-; Corresp. mem. USSR Acad. Sciences 1953-; mem. USSR Acad. Pedagogical Sc. 1967-; State Prize-winner 1951, 1975; several orders and medals. *Publications:* deal mainly with the work of A. S. Pushkin and include: Fonvizin – A Biocritical Account 1945; The Evolution of Pushkin's Art 1813-26, 1950; The Evolution of Pushkin's Art 1826-30 1967; The World As Beauty: 'The Vesperal Lights' of A. A. Fet 1975, (State Prize); The Soul in the Lyre 1978; also numerous works on history of Russian literature of the 18th, 19th, 20th centuries.

BLAIR-CUNYNGHAME, Sir James Ogilvy, Kt., O.B.E., LL.D., D.SC.; British banker; b. 28 Feb. 1913, Edinburgh; s. of late Edwin Blair-Cunynghame and late Anne Tod; ed. Sedbergh School and King's Coll. Cambridge; with Unilever Ltd. 1935-38; Fellow, St. Catherine's Coll. Oxford 1939-; served World War II 1939-45, Lt.-Col. 1944; Foreign Office 1946-47; Chief Personnel Officer, BOAC 1947-55; Dir.-Gen. of Staff, Nat. Coal Board 1955-57, full-time mem. of Staff, 1957-59; joined Royal Bank of Scotland 1960, Deputy Chair. 1961, Chair. 1965-68, 1970-76; Chair. Nat. and Commercial Banking Group Ltd. 1968-78, Williams and Glyn's Bank Ltd. Oct. 1976-78; Deputy Chair. Provincial Insurance Co. Ltd. and Provincial Life Assurance Co. Ltd. 1979-; Dir. Royal Bank of Scotland Ltd., Nat. and Commercial Banking Group Ltd., Williams and Glyn's Bank Ltd., Lloyds and Scottish Ltd., Provincial Insurance Co. Ltd., Provincial Life Assurance Co. Ltd., The Scottish Mortgage

and Trust Co. Ltd., Manchester Business School Assn. Ltd.; mem. Exec. Cttee., Scottish Council for Devt. and Industry; mem. Council, Industrial Soc.; mem. Court of Govs., LSE; various other positions; mem. Queen's Body Guard for Scotland; Fellow, British Inst. of Man.; Companion, Inst. of Personnel Man.; Hon. LL.D. (St. Andrews) 1965, Hon. D.Sc., Social Science (Edinburgh) 1969, Hon. F.R.C.S. (Edinburgh) 1978. *Publications:* various articles on financial and econ. matters and on personnel aspects of gen. management. *Leisure interest:* fishing. *Address:* Broomfield, Moniaive, Thornhill, Dumfriesshire, Scotland (Home). *Telephone:* Moniaive 217 (Home).

BLAIS, Marie-Claire, C.C.; Canadian writer; b. 5 Oct. 1939, Quebec City; ed. Quebec, Paris and United States. Guggenheim Foundation Fellowship, New York 1963; Prix de la langue française 1961, Prix France-Quebéc 1964, Prix Médicis 1966. *Publications:* La belle bête 1959, Tête blanche 1960, Le jour est noir 1962, Une saison dans la vie d'Emmanuel 1965, l'Insoumise 1966, Les Voyageurs sacrés 1969, Manuscrits de Pauline Archange 1970 (novels); Pays voiles, Existences (poems) 1964. *Leisure interests:* painting, handwriting analysis. *Address:* 5705 est, rue Sherbrooke, Montreal, Quebec H1N 1L7, Canada.

BLAIZOT, Jean P. M. L. F., D. ès SC.; French university official; b. 14 Jan. 1915, Mauvezin; s. of Prof. Louis Blaizot and Madeleine Palanque; m. Simone Guénot 1946; three s. one d.; ed. Lycée de Versailles, Sorbonne, Paris. Teacher, Evreux 1940-44, Paris 1944-45; worked for Nat. Centre of Scientific Research 1945-48; Tutor, then Prof. Toulouse Univ. 1948-60, Dean 1965-69; Prof. Bordeaux Univ. 1969-; Rector, Poitiers Univ. 1961-64; fmr. Dir. Inst. of Physiology, Toulouse; mem. Assn. of French Speaking Physiologists, Soc. of Biological Chem., Supervisory Council of Educ.; Commdr. Palmes académiques 1961; Chevalier Légion d'honneur 1962. *Publications:* Les relations physiologiques entre la glande thyroide et la vitamine B1, Journal de physiologie, Annales de la nutrition. *Address:* Institut de Biologie Animale, Avenue des Facultés, 33405 Talence, France (Office). *Telephone:* (56) 80-68-00.

BLAKE, Rev. Eugene Carson, A.B., TH.B.; American church official; b. 7 Nov. 1906, St. Louis, Mo.; s. of Orville P. and Lulu Carson; m. 1st Valina Gillespie 1929 (died 1973), 2nd Jean Ware Hoyt 1974; ed. Princeton Univ., Edinburgh Univ., and Princeton Theological Seminary. Teacher, Forman Christian Coll., Lahore, India 1928-29; Asst. Pastor, Collegiate Church of St. Nicholas, New York 1932-35; Pastor, First Presbyterian Church, Albany, N.Y. 1935-40, Pasadena (Calif.) Presbyterian Church 1940-51; Stated Clerk, The United Presbyterian Church in the U.S.A. 1951-66 (The Presbyterian Church in the U.S.A. until 1958); Gen. Sec. World Council of Churches 1966-72; Pres. Nat. Council of Churches (U.S.A.) 1954-57; Trustee, Princeton Univ. 1957-61; Chair. Div. of Inter-Church Aid, Refugee and World Service, World Council of Churches 1962-66; Chair. Bread for the World, U.S.A. 1974-78; 21 hon. degrees. *Publications:* He is Lord of All, The Church in the Next Decade. *Leisure interests:* golf, bridge. *Address:* 204 Davenport Drive, Stamford, Conn. 06902, U.S.A.

BLAKEMORE, Colin Brian, PH.D.; British neuro-physiologist and lecturer in physiology; b. 1 June 1944, Stratford-on-Avon; s. of Cedric Norman and Beryl Ann Blakemore; m. Andrée Elizabeth Washbourne 1965; two d.; ed. King Henry VIII School, Coventry, Corpus Christi Coll., Cambridge, Univ. of Calif. Berkely. Harkness Fellowship, Univ. of Calif. 1965-67; Univ. Demonstrator, Physiological Laboratory, Cambridge 1968-72; Lecturer in Physiology, Cambridge 1972-79; Fellow and Dir. of Medical Studies, Downing Coll. 1971-79; Visiting Prof. New York Univ. 1970, M.I.T. 1971; Locke Research Fellow, Royal Soc. 1976-79; mem. Editorial Board Perception 1971-, Nat. Cttee. Brain Research Assn. 1973-77, Central Council of Int. Brain Research Org. 1973-, Cttee. European Brain and Behaviour Soc. 1974-76, Council, Cambridge Philosophical Soc. 1975-79, BBC Science Consultative Group 1975-, Editorial Advisory Bd. of Trends in Neurosciences 1978-; Physiological Soc., Experimental Psychology Soc. and others; Leverhulme Fellowship 1974-75; BBC Reith Lecturer 1976; Lethaby Prof., R.C.A., London 1978; Waynflete Prof. of Physiology; Robert Bing Prize, Swiss Acad. of Medical Sciences 1975. *Publications:* Editor Handbook of Psychobiology 1975, Mechanics of the Mind 1977; contributions to Constraints on Learning 1973, Illusion in Art and Nature 1973, The Neurcaciences Third Program 1974 and to professional journals. *Leisure interests:* piano, theatre, skiing, sailing. *Address:* University Laboratory of Physiology, Parks Road, Oxford OX1 3PT (Office). *Telephone:* 0865-57451.

BLAKENEY, Allan Emrys, Q.C., M.L.A., L.L.B., M.A.; Canadian politician; b. 7 Sept. 1925, Bridgewater, Nova Scotia; s. of John Cline Blakeney and Bertha May Davies; m. 1st Mary Elizabeth Schwartz 1950 (died 1957), one s. one d.; 2nd Anne Gorham, one s. one d.; ed. Dalhousie and Oxford Univs. Sec. and legal adviser to Crown Corpn., Govt. of Saskatchewan 1950-55; Chair. Sask. Securities Comm. 1955-58; partner law firm of Davidson, Davidson & Blakeney 1958-60; Govt. of Sask. Minister of Educ. 1960-61, Provincial Treas. 1961-62, Minister of Health 1962-64, Leader of the Opposition 1970-71; Premier 1971-; mem. Senate, Univ. of Sask. 1960-62; Chair. of Wascana Centre Authority 1962-64; partner Griffin, Blakeney, Beke (law firm) 1964-70; Pres. New Democratic Party of Canada 1969-71. *Publications:* Articles on Sask. Crown Corpns. in Proc. of the Inst. of Public Admin. of Canada and The Public Corporation edited by W. Freedman, Press Coverage of Saskatchewan Medicare Dispute, Queens' Quarterly, Autumn, 1963. *Address:* Office of the Premier, Regina, Saskatchewan, Canada.

BLAKENHAM, 1st Viscount (cr. 1963) of Little Blakenham, in the County of Suffolk; **John Hugh Hare,** P.C., O.B.E., D.L., V.M.H.; British politician; b. 22 Jan. 1911; s. of Earl and Countess of Listowel; m. Hon. Beryl Nancy Pearson 1934; one s. two d.; ed. Eton Coll. Suffolk Yeomanry 1939-45; Alderman London County Council 1937-52; M.P. 1945-63; Vice-Chair. Conservative Party Org. 1951-55, Chair. 1963-65; Minister of State for Colonial Affairs 1955-56; Sec. of State for War 1956-58; Minister of Agriculture 1958-59, of Labour 1960-63; Chancellor of Duchy of Lancaster and Deputy Leader, House of Lords 1963-64; Chair. Toynbee Hall 1966-, Gov. Body, Peabody Trust 1967-; Treasurer Royal Horticultural Soc. 1970-; Deputy Lieut. for Suffolk 1968. *Leisure interest:* gardening. *Address:* 10 Holland Park, London, W.11; Cottage Farm, Little Blakenham, Ipswich, Suffolk, England. *Telephone:* 01-727 5885 (London); 0473 830344 (Suffolk).

BLAMONT, Philippe Lucien, DIPL.SC.POL.; French international official; b. 17 Nov. 1927, Paris; s. of Emile Armand Blamont and Perle Odette Amélie Cohen; m. Evelyne Bernheim 1950; two d.; ed. Faculté de Droit de Paris, Inst. d'Etudes politiques de Paris, Cambridge Univ. and Georg-August-Universität zu Göttingen. Sec. of conf. of Advocates at Council of State and Court of Cassation 1951; mem. office of Dir.-Gen. Int. Labour Office (ILO), Geneva 1952-53, Int. Organizations Div. 1953-57, Liaison Office with UN, New York 1957-59; Exec. Asst. to Dir.-Gen., Geneva 1960-64; Dir. Liaison Office with UN 1964-66, Int. Centre for Advanced Technical and Vocational Training, Turin 1966-74; Pres. Nat. Comm. on Future Training 1974-75; Pres., Dir.-Gen. Bossard Inst. 1975-. *Address:* Bossard Institut, 12 rue Jean-Jaurès, Hauts de Seine, 92807 Puteaux (Office); 92 rue du Bac, 75007 Paris, France (Home). *Telephone:* 776-42-01 (Office); 222-00-19 (Home).

BLANCARD, Jean Raymond Edouard; French engineering administrator; b. 18 Aug. 1914; ed. Ecole Polytechnique. Engineer, then Chief Engineer of Mines; Dir. of Fuels Central Admin. of Industry and Commerce until 1960; mem. Admin. Council Gaz de France 1959-; Pres. 1975-; Ministerial Del. for Air Force 1959-61; Pres. Bureau de recherches de pétrole (B.R.P.) 1959-65; Vice-Pres. Entreprise de recherches et d'activités pétrolières (ERAP) 1965-68; Pres. Dir.-Gen. Soc. auxiliaire de l'Erap (AUXERAP) 1965, Soc. française de recherches et d'exploitation pétrolières (SOFREP) 1966-68; Pres. Industrial Equipment Cttee., Atomic Energy Comm. 1961; Vice-Pres. Régie nat. des Usines Renault 1961-65; Pres. Dir.-Gen. SNECMA 1964-68; Perm. Under-Sec. for Armaments 1968-73; Sec. for Energy 1973-75; Dir. Turboméca. Nord-Aviation, Sud-Aviation; Vice-Pres. Union Syndicale des industries aéronautiques et spatiales 1965-; mem. Atomic Energy Cttee. 1968-74; Vice-Pres. Gen. Council of Mines 1969-; Pres. Consultative Comm. for Production of Nuclear Electricity 1974-; Dir. S.N.C.F. (French Railways) 1974; Officier Légion d'honneur. *Address:* 19 boulevard Flandrin, 75116 Paris, France.

BLANCH, Most Rev. and Rt. Hon. Stuart Yarworth, P.C., M.A. (OXON.); British ecclesiastic; b. 2 Feb. 1918, Blakeney, Gos.; s. of the late William Edwin and Elizabeth Blanch; m. Brenda Coyte 1943; one s. four d.; ed. Alleyn's School, Dulwich, St. Catherine's Coll. and Wycliffe Hall, Oxford. Law Fire Insurance Soc. Ltd. 1936-40; Navigator, R.A.F. 1940-46; Curate, Highfield, Oxford 1949-52; Vicar of Eynsham, Oxford 1952-57; Tutor and Vice-Principal, Wyclif Hall 1957-60, Chair. 1967-; Oriel Canon of Rochester and Warden of Rochester Theological Coll. 1960-66; Bishop of Liverpool 1966-75; Archbishop of York 1975-; Pro-Chancellor, Univ. of Hull 1975-; Univ. of York 1977-; Hon. LL.D (Liverpool) 1975, Hon. D.D. (Hull) 1977. *Publications:* The World Our Orphanage 1972, For all Mankind 1976, The Christian Militant 1978, The Burning Bush 1978. *Leisure interests:* music, walking. *Address:* Bishopthorpe, York, YO2 1QE, England.

BLANCHARD, Francis; French international civil servant; b. 21 July 1916, Paris; m. Marie Claire Boué 1940; two s.; ed. Univ.

of Paris. French Home Office; Int. Org. for Refugees, Geneva 1947-51; Int. Labour Office, Geneva 1951-; Asst. Dir.-Gen. 1956-68, Deputy Dir.-Gen. 1968-74, Dir.-Gen. 1974-. *Leisure interests:* skiing, hunting, horse-riding. *Address:* International Labour Office, 4 chemin des Morillons, Geneva, Switzerland (Office); Prébailly, Gex (Ain), France (Home). *Telephone:* 986111 (Office); 41-51 70 Gex (Home).

BLANC-LAPIERRE, André Joseph Lucien, D. ès SC.; French scientist; b. 7 July 1915, Lavaur; s. of Victor Blanc-Lapierre and Jeanne Garrigues; m. Jacqueline Masson 1940; two s. six d.; ed. Ecole Normale Supérieure de Paris. Staff mem., Ecole Normale Supérieure 1940-44; Head of electronic dept., Centre National d'Études des Télécommunications 1944-48; Prof. Univ. of Algiers and Dir. Inst. d'Etudes Nucléaires 1948-61; Prof. Univ. of Paris 1961-; Dir. Laboratoire de l'Accélérateur Linéaire, Paris 1961-69; Dir.-Gen. Ecole Supérieure d'Electricité 1969-78; Pres. Consultative Cttee. for Scientific and Tech. Research 1963-65; Pres. Comm. for Scientific Research of Plan 1964-66; mem. Acad. des Sciences 1971–; Commdr. Légion d'honneur, Order nationale du Mérite; several prizes. *Publications:* numerous books and articles in professional journals. *Leisure interests:* bridge, travel. *Address:* Laboratoire des Signaux et Systèmes, Plateau du Moulon, 91190 Gif-sur-Yvette, France. *Telephone:* 941-80-40 (Office).

BLANCO-CERVANTES, Dr. Raúl; Costa Rican chest specialist and politician; b. 1903, San José, s. of Macedonio Blanco Álvarez and Dolores Cervantes Castro; m. Dora Martín Chavarría 1939; one s. four d.; ed. Liceo de Costa Rica and Ludwig-Maximilians-Univ. München. Medical Dir., Sanatorio Carlos Durán 1933-67; Dir. of Anti-Tuberculosis Dept., Ministry of Public Health 1937-67; Minister of Public Health 1948-49; Pres. Coll. of Physicians and Surgeons of Costa Rica 1946, 1947; Dir.-Gen. of Assistance, Ministry of Public Health 1950, 1951; First Vice-Pres. of Costa Rica 1953-58, 1962-66; Acting Pres. of Costa Rica 1955; Dir. Hospital Nacional para Tuberculosis 1958-; Pres. Colegio de Médicos y Cirujanos de Costa Rica 1946-47; Hon. mem. Sociedad Mexicana de Tisiología; mem. of WHO Expert Advisory Panel on tuberculosis 1954-71; Gov. American Thoracic Soc., American Coll. of Chest Physicians until 1966; First Pres. and Founder Sociedad Centroamericana de Tisiologia; several decorations. *Leisure interests:* reading, gardening. *Address:* Apdo. 918, San José, Costa Rica. *Telephone:* 21-20-82.

BLANCO ESTRADE, Dr. Juan Carlos; Uruguayan politician; b. 9 June 1934, Montevideo; ed. Univ. de Montevideo. Worked in Banco Hipotecario, Uruguay; Central Govt. office, later President's office, until 1965; Gen. offices of OAS, and simultaneously alternate Rep. of Latin-American Assn. of Free Trade (LAFTA) 1965-68; Dir. LAFTA 1968-71; Under-Sec. for Foreign Affairs 1971-72; Minister for Foreign Affairs 1972-76. *Address:* c/o Ministerio de Relaciones Exteriores, Avenida 18 de Julio 1205, Montevideo, Uruguay.

BLANCO VILLALTA, Jorge Gastón; Argentine diplomatist and writer; b. 1909. Vice-Consul, Istanbul 1934-35; First Sec. Ministry of Foreign Affairs 1946; Head of UN Div., Political Dept., Ministry of Foreign Affairs 1946; in charge of liaison with Nat. Congress 1947; Sec.-Gen. Argentine Del. UN Assemblies 1947, 1948; Counsellor 1948; Dir. Intellectual Cooperation and Counsellor attached to Presidency 1948-53; Sec.-Gen. and Del. Inter-American Conf. 1954; Dir. Middle East and East Europe Dept. Ministry of Foreign Affairs 1954 (Minister 1954, Amb. 1955); Royal Order of Phoenix (Greece), Order of the Cedar (Lebanon). *Publications:* El Pueblo Turco 1936, Cuadros de la Estambul Actual 1937, Literatura turca 1939, Kemal Ataturk 1939, Literatura turca contemporánea 1940, El Milagro Turco 1940, Conquista del Río de la Plata 1943, Historia de la Conquista del Río de la Plata 1946, Antropofagía ritual americana 1948, Montoya, apóstol de los guaraníes 1955, Organización de los Estados Americanos 1957, La Organización de la Comunidad Internacional 1960. *Address:* Las Heras 4095, Buenos Aires, Argentina.

BLANCPAIN, Marc; French writer; b. 29 Sept. 1909; ed. Collèges d'Hirson et de Laon, Université de Nancy, Univ. de Paris à la Sorbonne and Ecole Normale Supérieure, Saint-Cloud. Teacher, Ecole Internationale de Genève 1931-35, Lycée Français, Cairo 1935-39; Sec.-Gen. of Alliance Française 1945-, Pres. 1978; mem. PEN Club, Soc. des Gens de Lettres, Acad. Stanislas, Acad. des Sciences d'Outre-Mer; Commdr. Légion d'honneur, Croix de guerre 1939-34, Commdr. Ordre des Palmes académiques, Commdr. Ordre nationale du Mérite, Commdr. Ordre des Arts et des Lettres, and orders from Peru, Chile, Senegal, Brazil and Belgium; Grand Prix du Roman, Acad. Française 1945, Prix Courteline 1946, Prix Scarron 1955, Prix Engelmann (Belgium) 1956, Grand Prix du Rayonnement Français (Acad. Française) 1961. *Publications include:* Le solitaire (novel) 1945, Les contes de la lampe à graisse (novel) 1946, Le carrefour de la désolation (novel) 1951, Voyages et verres d'eau (essay) 1952, La femme d'Arnaud vient de mourir (novel) 1958, Contes de Vermeil (for children) 1958, Les peupliers de la Prétentaine 1961, Vincennes Neuilly (short stories) 1963, Grandes heures d'un village de la frontière 1964, Les truffes du voyage 1965, Aujourd'hui, l'Amérique latine 1966, Ulla des Antipodes (novel) 1967, Les lumières de la France (essay) 1967, La saga des amants séparés, Vol. I 1969, Vol. II 1970, Vol. III 1972-, Le plus long amour 1971, En français malgré tout 1973, Nous l'appelions Bismarck 1974, Paul-Emile et Emily 1977. *Address:* 101 boulevard Raspail, Paris 6e (Office); 12 boulevard Jean Mermoz, 92 Neuilly-sur-Seine, France (Home). *Telephone:* 747-92-10 (Home).

BLANKENHORN, Herbert; German diplomatist; b. 15 Dec. 1904, Mülhausen-Alsace; m. Gisela Krug 1944; two s. two d.; ed. Gymnasiums in Strasbourg, Berlin and Karlsruhe, and Univs. of Munich, London, Heidelberg and Paris; entered Foreign Service 1929; served Athens 1932-35, Washington 1935-39, Helsinki 1940, Berne 1940-43; Foreign Office, Berlin (Protocol Section) 1943-45; Deputy Sec.-Gen. Zonal Advisory Council, Hamburg 1946-48; Sec.-Gen. Christian Democratic Party (British Zone) 1948; Private Sec. to Pres. of the Parl. Council, Bonn (Dr. Adenauer) 1948-49; Chief of Liaison Office with Allied High Comm. 1949; Political Dir. Foreign Office 1950-55; Amb. to NATO 1955-58, to France 1958-63, to Italy 1964-65, to U.K. 1965-70; mem. UNESCO Exec. Council 1970-. *Address:* 7847 Badenweiler (Baden), 2 Hintere Avenue, Federal Republic of Germany. *Telephone:* 7632-354.

BLANTON, Leonard Ray, B.S.; American businessman and politician; b. 10 April 1930, Hardin Co., Tenn.; s. of Leonard Alonza Blanton and Ova A. Delaney Blanton; m. Betty Littlefield 1949; two s. one d.; ed. Old Shiloh High School and Univ. of Tennessee; mem. Tenn. House of Reps. 1964-66; mem. for Tenn., U.S. House of Reps. 1966-72; Gov. of Tenn. 1975-79; fmr. mem. Exec. Cttee. Nat. Governors' Conf.; fmr. Chair. Dem. Nat. Governors' Conf. Task Force on Int. Trade and Tourism; Chair. Tennessee-Tombigbee Waterway Devt. Authority; Democrat. *Leisure interests:* hunting, fishing, golf. *Address:* Exec. Chamber Tenn. State Capitol, Nashville, Tenn. 37219, U.S.A. *Telephone:* (615) 741-2001 (Office); (615) 383-5401 (Home).

BLANZAT, Jean; French writer; b. 1905; ed. Collège de Bellac and Ecole normale d'instituteurs de Versailles. Literary Dir. Editions Grasset 1945-53; mem. Publisher's Readers' Cttee. Editions Gallimard 1953-; Grand Prix du roman de l'Académie française 1942; Prix Fémina 1965. *Publications:* novels: Enfance 1930, A moi-même ennemi 1933, Septembre 1936, L'Orage du matin 1942, La gartempe 1957, Le faussaire 1965, L'Iguane 1966. *Address:* 7 rue de Navarre, 75005, Paris, France.

BLAŠKOVIČ, Dionýz, M.U.DR., DR.SC.; Czechoslovak virologist; b. 2 Aug. 1913, Jablonica; s. of Koloman Blaškovič and Gabriela Blaškovič (née Blaškovičova); m. 1st Milada Janatová 1941; m. 2nd Vlasta Černá 1972; one s. two d.; ed. Charles Univ., Prague; research work, Inst. of Bacteriology and Immunology, Charles Univ.; bacteriological research 1934-46; Rockefeller Foundation Fellow, United States 1946-47; Head, Dept. of Epidemiology and Microbiology, State Health Inst., Bratislava 1945-52; Prof. Med. Faculty, Comenius Univ., Bratislava 1954-, Prof. Nat. Science Faculty 1969–; Dir. Inst. of Virology, Slovak Acad. of Sciences, Bratislava 1953–; Sec.-Gen. Int. Council of Scientific Unions (ICSU) 1963-66; Pres. Slovak Acad. of Sciences 1961-65; mem. Presidium Czechoslovak Acad. of Sciences 1965-70; Editor-in-Chief Acta Virologica; Hon. mem. All-Union Soc. of Hygienists, Epidemiologists, Microbiologists and Infectionists of U.S.S.R. 1956; WHO expert; Fellow, New York Acad. of Sciences 1960; Hon. mem. Polish Microbiological Soc. 1963, Austrian Microbiological Soc. 1963; Foreign mem. U.S.S.R. Acad. of Sciences 1966; mem. Int. Org. for Cell Research, Brussels; mem. Soc. Gen. Microbiology, London; mem. Deutsche Akad. Naturforscher Halle/Saale 1967; State Prize for Science 1951; Purkyně Medal in Medical Sciences 1956; Order of Labour 1963; Max Planck Gold Medal 1965; J. E. Purkyne Gold Plaque 1968; Klement Gottwald State Prize 1976. *Address:* Virological Institute, Bratislava, Mlynská dolina 1; Novosvetská 18, Bratislava, Czechoslovakia. *Telephone:* 483-37 (Office), 314-88 (Home).

BLATTNÝ, Ctibor, DR.ING., DR.SC.; Czechoslovak botanist; b. 8 Sept. 1897, Česká Skalice; ed. Coll. of Agricultural Eng., Prague. Dir. Inst. for Experimental Botany, Czechoslovak Acad. of Sciences 1960-68; Prof. Agric. Coll., Prague 1967-; mem. Czechoslovak Acad. of Sciences 1960, Academician 60-; Hon. mem. Czechoslovak Botanical Soc. (Czechoslovak Acad. of Sciences) 1976; State Prize 1958, Silver Plaque of Czechoslovak Acad. of Sciences 1967; Dr. h.c., Schiller Univ., Jena. *Publications:* Scientific papers on plant viruses, especially agricultural plant viruses. *Address:* Říčanova 29, Prague 6-Břevnov, Czechoslovakia.

BLAUDIN De Thé, Guy (*see* de Thé, Guy Blaudin).

BLAUSTEIN, Albert Paul, J.D.; American lawyer and professor; b. 12 Oct. 1921, New York, N.Y.; s. of Karl Allen and Rose (Brickman) Blaustein; m. Phyllis Migden 1948; two s. one d.; ed. Michigan and Columbia Univs.; reporter and rewrite man, City News Bureau, Chicago 1941-42; army service 1942-48; 1950-52; admitted to New York bar 1948, New Jersey bar 1962; mem. Blaustein and Blaustein law firm, New York, N.Y. 1948-50, 1952-55; Counsel with Nierenberg, Zeif and Weinstein, New York, N.Y.; Asst. Prof. and Law Librarian, New York Law School 1953-55; Assoc. Prof. Rutgers Univ. School of Law 1955-59, Prof. of Law 1959-; consultative work in the field of civil rights and constitutional law in many countries; mem. Int. Bar Assen., Camden County Bar Assen., Assen. of the Bar of the City of New York, American Assen. of Law Libraries, professional and specialist orgs. in various countries. *Publications:* author and co-author: Public Relations for Bar Associations 1952, The American Lawyer 1954, Fiction goes to Court 1954, Desegregation and the Law 1957, Doctor's Choice 1957, Deals with the Devil 1958, Invisible Men 1960, Civil Affairs Legislation, Selected Cases and Materials 1960, Fundamental Legal Documents of Communist China 1962, Manual on Foreign Legal Periodicals and their Index 1962, Civil Rights U.S.A. 1963, Public Schools in Camden and Environs 1964, Civil Rights and the American Negro 1968, Civil Rights and the Black American 1970, Law and the Military Establishment 1970, Intellectual Property: Cases and Materials (1960-70) 1971, Constitutions of the Countries of the World (14 vols.) 1971-74, Housing Discrimination in New Jersey 1972, Human Rights and the Bangladesh Trials 1973, The Common Law in French: A Bibliography 1973, Constitutions of Dependencies and Special Sovereignties (6 vols.) 1975-; Independence Documents of the World 1976, Studies on the Supreme Court 1976, Independence Documents of the World 1977, The Arab Oil Weapon 1977, The First 100 Justices: Statistical Studies on the Supreme Court of the U.S. 1978, The Military and American Society 1978; numerous articles, contributions, reviews. *Leisure interests:* amateur theatricals, philately, travel. *Address:* Rutgers University School of Law, Camden, N.J. 08102; 230 Park Avenue, New York, N.Y. 10017 (Office); 415 Barby Lane, Cherry Hill, N.J. 08003, U.S.A. (Home). *Telephone:* (609) 757-6182 (Office); (609) 365-0990 (Home).

BLAUVELT, Howard W., C.P.A.; American petroleum executive; b. 11 Feb. 1917, New York; s. of the late Harry O. W. Blauvelt and Lillian M. Woelfert Blauvelt; m. 1st Margaret D. Hahn 1939 (deceased 1970), 2nd Mary E. Cassity 1970; one s. one d.; ed. Yale Univ. and Columbia Graduate School of Business Admin., N.Y. Treas., Meyer and Medelsohn, Inc. 1949-51; Asst. Controller, Continental Oil Company (CONOCO), Oklahoma 1952-57, Controller, Texas 1962-65, Vice-Pres. Co-ordinating and Planning, New York 1965-66, Dir. 1966-, Exec. Vice-Pres. New York 1966-69, Pres. Conoco Chemicals Div. 1969-72, Exec. Vice-Pres., Stamford, Conn. 1972-74, Pres. March-May 1974, Chair. and Chief Exec. Officer May 1974-79; Senior Vice-Pres. Hudson's Bay Oil & Gas Co. Ltd., Canada 1957-62; Dir. Amer. Petroleum Inst. 1974-, Bankers Trust, New York 1975-, General Telephone & Electronics 1975-, Gen. Reinsurance Co. 1977-, Colgate-Palmolive Co. 1978-, Atibiti Paper Co. 1978-. *Leisure interest:* golf. *Address:* Conoco, Continental Oil Company, High Ridge Park, Stamford, Conn. 06904, U.S.A. *Telephone:* (203) 359-3500.

BLAŽEK, Vladimír; Czechoslovak government official; b. 5 April 1929, Štepánov; ed. Railway Coll., Žilina. Various posts with Czechoslovak State Railways 1955-75, Head of Cen. Railway Admin., Olomouc 1975; Fed. Minister of Transport Jan. 1976-; Head of Del. to CMEA Perm. Comm. for Transport and Civil Aviation Jan. 1976-; Distinction for Outstanding Work 1975. *Address:* Ministry of Transport, Na Příkopě 33, Prague 1, Czechoslovakia.

BLAZEVIC, Juraj Jakov; Croatian politician; b. 24 March 1912, Bužim near Gospić; ed. Zagreb Univ. Joined Communist Party of Yugoslavia 1928; imprisoned for six months for communist activities 1931; Sec. Dist. Cttee. of Croatia in Lika 1940; Del. First Nat. Conf. of CP of Croatia; mem. Cen. Cttee. CP of Croatia; at Fifth Party Conf. elected mem. Cen. Cttee. CP of Yugoslavia; organized Croatian uprising First Partisan Detachment Velebit in Lika district; sentenced to death by Italian Mil. Court 1943; mem. 1st, 2nd and 3rd Zavnoh Convention; Public Prosecutor of Croatia 1945-48; Minister of Commerce and Supply 1948-50; Vice-Pres. Govt. and Pres. Econ. Council of Croatia 1950-53; Pres. of Croatia 1953-62; Pres. Fed. Chamber of Commerce, mem. Fed. Exec. Council 1962-65; Vice-Pres. 1965-67; Pres. of Ass. of Croatia 1967; fmr. [redacted] Presidency of Yugoslavia; Medal of Nat. Hero; Partisan Memorial Medal 1941; numerous other decorations. *Address:* c/o The Croatian Assembly, Zagreb, Yugoslavia.

BLEANEY, Brebis, C.B.E., F.R.S., D.PHIL.; British physicist and university professor; b. 6 June 1915, London; s. of Frederick Bleaney and Eva Johanne Petersen; m. Betty Isabelle Plumpton 1949; one s. one d.; ed. St. John's Coll., Oxford. Lecturer in Physics, Oxford 1945-57; Fellow of St. John's Coll., Oxford 1947-57, Hon. Fellow 1968-; Dr. Lee's Prof. of Experimental Philosophy, Oxford 1957-77; Fellow of Wadham Coll. 1957-; Royal Soc. Warren Research Fellow 1977-; Corresp. mem. Acad. des Sciences de l'Institut de France 1974-78, Associé Etranger 1978-; Foreign non. mem. American Acad. Arts and Sciences 1978-; Hughes Medal, Royal Soc. 1962; C. V. Boys Prize, Physical Soc. of London. *Publications:* Electricity and Magnetism (with B. I. Bleaney) 1957, Electron Paramagnetic Resonance (with A. Abragam) 1970. *Leisure interests:* music, tennis, travel. *Address:* Clarendon Laboratory, Oxford; Garford House, Garford Road, Oxford, England (Home). *Telephone:* 59291 (Laboratory); 59589 (Home).

BLECH, Harry, O.B.E.; British conductor; b. 2 March 1910, London; s. of Polish parents; m. 2nd Marion Manley 1957; one s. three d. (and one s. two d. by 1st marriage); ed. Central London Foundation, Trinity Coll. of Music and Manchester Coll. of Music. Violin soloist 1928-30; with B.B.C. Symphony Orchestra 1930-36; Founder mem. Blech Quartet 1933-50, London Wind Players 1942, London Mozart Players 1949, Haydn-Mozart Soc. 1949, London Mozart Choir 1952; Dir. Royal Acad. of Music 1961-65; Hon. mem. Royal Acad. of Music; Fellow, Royal Manchester Coll. of Music, Trinity Coll. of Music. *Leisure interest:* reading. *Address:* The Owls, 70 Leopold Road, London, S.W.19, England. *Telephone:* 01-946 8135.

BLEGEN, Judith; American opera and concert singer; b. 27 April 1941, Lexington, Ky.; d. of Dr. Halward Martin and Dorothy Mae (Anderson) Blegen; m. 1st Peter Singher 1967 (divorced 1975), one s.; m. 2nd Raymond Gniewek 1977; ed. Curtis Inst. of Music, Philadelphia, Pa., Music Acad. of the West, Santa Barbara, Calif.; leading soprano, Nuremberg Opera, Fed. Republic of Germany 1965-68, Staatsoper, Vienna, Austria 1968-70, Metropolitan Opera, New York 1970-; Vienna roles include Zerbinetta (Ariadne auf Naxos), Rosina (The Barber of Seville), Aennchen (Der Freischütz), Norina (Don Pasquale); numerous performances at Metropolitan include Marzelline (Fidelio), Sophie (Werther), Mélisande (Pelléas et Mélisande), Sophie (Der Rosenkavalier), Adina (L'Elisir d'amore), Juliette (Roméo et Juliette), Susanna (The Marriage of Figaro); other appearances include Susanna (The Marriage of Figaro), San Francisco, title-role in Manon, Tulsa Opera, Despina (Così fan tutte), Covent Garden, Blondchen (The Abduction from the Seraglio), Salzburg Festival, Mélisande (Pélleas et Mélisande), Spoleto Festival, Susanna (The Marriage of Figaro), Edinburgh Festival, Sophie, Paris Opera; Fulbright Scholarship, Grammy Award. *Numerous recordings, including:* La Bohème (Puccini), Carmina Burana (Orff), Symphony No. 4 (Mahler), Harmoniemesse (Haydn), The Marriage of Figaro (Mozart), A Midsummer Night's Dream (Mendelssohn), Lord Nelson Mass (Haydn), Gloria (Poulenc), Peer Gynt Suite (Grieg), Lieder recital (Richard Strauss and Hugo Wolf), baroque music recital. *Address:* c/o Thea Dispeker, 59 East 54th Street, New York, N.Y. 10022, U.S.A. *Telephone:* (212) 421-7676.

BLEUSTEIN-BLANCHET, Marcel; French advertising executive; b. 21 Aug. 1906. Founder and Pres. Publicis 1927-; founded Radio Cité 1935; founder and Dir.-Gen. Régie Press 1938–; founder Les Drugstores Publicis 1958; founder and Pres. Fondation de la Vocation 1960-; Founding Co-Pres. Confédération de la Publicité Française 1966-67; Commdr. Légion d'honneur, Croix de guerre, Médaille de la Résistance. *Publications:* Sur mon antenne 1948, La rage de convaincre 1970, La nostalgie du futur 1977. *Address:* 133 avenue des Champs-Elysées, 75008 Paris (Office); 23 rue Albéric-Magnard, 75016 Paris, France (Home).

BLIND, Adolf, DR.RER.POL.; German university professor and business executive; b. 16 Oct. 1906; ed. Univ. of Frankfurt. Privat Dozent, Univ. of Frankfurt 1934-36, Prof. of Statistics 1957; Head of Statistical Office, Saarland, and City of Saarbrücken 1936-42; Extra-Mural Prof., Univ. of Heidelberg 1942-49; Prof., Univ. of Saarbrücken 1949; Minister of Finance, Saarland 1955-57; fmr. Chair. of Advisory Bd. Saarbergwerke; mem. Int. Statistical Inst.; Dep. Chair. German Statistical Assen.; Grosses Verdienstkreuz. *Publications:* Die Heimarbeit in der Schweiz 1929, Beiträge zur deutschen Statistik 1936, Wesen und Eigentümlichkeit sozialstatistischer Erkenntnis 1953, Das derzeitige Verhältnis zwischen Statistik und Nationalökonomie 1963, Wirtschaftsstatistik in Forschung und Lehre 1966. *Address:* Passavantstrasse 10, 6000 Frankfurt [redacted] Main, Federal Republic of Germany. *Telephone:* 61-89-67.

BLISS, Anthony Addison, B.A., LL.B.; American lawyer; b. 19 April 1913, New York; s. of Cornelius Newton Bliss and Zaidee

Cobb Bliss; m. 1st Barbara Field 1937 (divorced 1941); 2nd Jo Ann Sayers 1942 (divorced 1967); 3rd Sally Brayley 1967; four s. two d.; ed. Groton, Harvard Univ. and Univ. of Virginia Law School. Assoc., Milbank, Tweed, Hope & Hadley 1940-41, 1945-51, Partner 1952-61; Partner Milbank, Tweed, Hadley & McCloy 1961-72, Consulting Partner 1974-; Dir. Metropolitan Opera Assen. Inc. 1949-, Pres. 1956-67, Exec. Dir. 1974-; Chair. Foundation for Joffrey Ballet 1970; Hon. Chair. Nat. Corporate Fund for Dance, Inc. 1972-; Trustee, U.S. Trust Co. of New York 1959-; Dir. Lincoln Center for the Performing Arts, Inc. 1961-67, Great Atlantic and Pacific Tea Co., Inc. 1963-70; mem. Nat. Council on the Arts 1965-68, Advisory Panel on Dance, Nat. Endowment for the Arts 1968-71, Music Panel 1968-69; Trustee, Nat. Opera Inst. 1969-74; Dir. New York Foundation for the Arts, Inc. 1971-; Trustee, Portledge School 1973-. Foundation Center 1974-75; mem. American Bar Assen., N.Y. State Bar Assen., Assen. of the Bar of the City of New York, Nassau County Bar Assen. *Leisure interests:* breeding Chesapeake Bay Retrievers, tennis, swimming. *Address:* Metropolitan Opera Association, Inc., Lincoln Center Plaza, New York, N.Y. 10023; Milbank, Tweed, Hadley & McCloy, Chase Manhattan Plaza, New York, N.Y. 10005 (Office); Long Island, New York, U.S.A. (Home). *Telephone:* (212) 799-3100, (212) 422-2660 (Office).

BLISS, Ray Charles, A.B.; American insurance executive and politician; b. 16 Dec. 1907, Akron, Ohio; s. of Emil and Emilie (Wieland) Bliss; m. Ellen Palmer 1959; ed. Univ. of Akron, Ohio. Sec. Treas. Wells & Bliss Inc. 1933-37; Pres. Tower Agencies Inc. (general insurance) 1947-; mem. Summit County Bd. of Elections 1936-78, Chair. 1945-46, 1949-50; Chair. Summit County Repub. Central Cttee. 1942-64; Chair. Ohio Repub. State Cen. and Exec. Cttee. 1949-65; Presiding Officer Repub. Joint Leadership of Congress, and Nat. Repub. Co-ordinating Cttee. 1965-69; mem. Repub. Nat. Cttee. 1952-, mem. Exec. Cttee. 1952-, Vice-Chair. Repub. Nat. Cttee. 60-65, 70-, Chair. 65-69; mem. Univ. of Akron, Board of Trustees 1970-74, 1975-; Univ. of Akron Alumni Hon. Award 1965; Hon. H.L.D. (Akron) 1968. *Leisure interest:* rose-growing. *Address:* 425 First National Tower, Akron, Ohio 44308, U.S.A. (Office). 2535 Addyston Road, Akron, Ohio 44313 (Home); *Telephone:* 762-8903 (Office); 864-4563 (Home).

BLITZ, Gérard; Belgian business executive; b. 28 Feb. 1912; ed. Collège d'Anvers. Diamond cutter 1932-50; Founder, Vice-Chair., Club Méditerranée (holiday org.) 1950-; Pres. S.P.V.Y. 1966-; Croix de guerre. *Address:* 8 rue de la Bourse, 75002 Paris (Office); 6 rue du Printemps, 75017 Paris, France (Home).

BLOCH, Felix, PH.D.; American university professor; b. 23 Oct. 1905; s. of Gustav and Agnes Bloch; m. Lore Misch 1940; three s. one d.; ed. Fed. Inst. of Tech., Zürich, and Univ. of Leipzig. Lecturer, Univ. of Leipzig 1932-33; Acting Assoc. Prof., Stanford Univ. 1934-36, Prof. of Physics 1936-71, Prof. Emer. 1971-; Dir.-Gen. European Council for Nuclear Research, Geneva 1954-55; mem. Nat. Acad. of Sciences; Pres. American Physical Soc. 1965-66; Fellow, Churchill Coll., Cambridge 1967; Nobel Prize for Physics 1952. *Leisure interest:* piano. *Address:* 1551 Emerson Street, Palo Alto, Calif, 94301, U.S.A. *Telephone:* 415-327-8156.

BLOCH, Konrad, PH.D.; American (b. German) biochemist; b. 21 Jan. 1912; ed. Technische Hochschule, München, and Columbia Univ. Emigrated to U.S.A. 1936, naturalized 1944; Instructor and Research Assoc., Columbia Univ. 1939-46; Asst. Prof. of Biochemistry, Univ. of Chicago 1946-50, Prof. 1950-54; Higgins Prof. of Biochemistry, Harvard Univ. 1954-; Fellow American Acad. of Sciences; mem. Nat. Acad. of Sciences; Fritzsche Award, American Chemical Soc. 1964; Nobel Prize for Medicine with Prof. Theodor Lynen for discoveries concerning the mechanism and regulation of cholesterol and fatty acid metabolism 1964. *Publication:* Lipide Metabolism 1961. *Address:* 38 Oxford Street, Cambridge, Mass. 02138, U.S.A.

BLOCH-LAINÉ, François, D. en D.; French banker; b. 25 March 1912, Paris; s. of Jean-Frédéric Bloch-Lainé and Georgette Lainé; m. Anne-Marie d'Abbadie d'Arrast 1935; four s.; ed. Univ. of Paris; entered Inspection des Finances 1936; directed finances of Resistance; Deputy Dir. of Treasury 1944; financial adviser in China and Chief, French Financial Mission to Far East 1945-46; Dir. of Schuman Cabinet 1946; Dir. of Treasury 1947-53; Dir.-Gen. Caisse des Dépôts 1953-67; Insp.-Gen. of Finances 1963-; Pres. Crédit Lyonnais 1967-74; posts in Soc. Nat. des Pétroles d'Aquitaine, Banque de Bruxelles, la Cie. Bancaire, Crédit Nat., Crédit Foncier Franco-Canadien, Crédit Foncier de France; Vice-Pres. Assen. professionelle des Banques; Grand Officier Légion d'honneur, Croix de guerre, Médaille de la Résistance, Commdr. Ordre des Palmes académiques. *Publications:* L'emploi des loisirs ouvriers et l'education populaire 1935, La zone franc 53, Le trésor public 1960, La réforme de l'entreprise 1963. *Address:* 11 rue de l'Hôtel-Colbert, 75005 Paris, France.

BLOCK, Joseph Leopold; retired American steel company executive; b. 6 Oct. 1902, Chicago, Ill.; s. of Leopold and Cora (Bloom) Block; m. Lucille Eichengreen 1924; one s. (deceased) one d.; ed. Harvard School (Chicago) and Cornell Univ.; joined Inland Steel Co. 1922, sales dept. 1923-27, Asst. Vice-Pres. 1927-36, Vice-Pres., Sales 1936-51, Vice-Chair. 1949-52, Exec. Vice-Pres. and Chair. Finance Cttee. 1952-53, Pres. 1953-56, Pres. and Chief Exec. Officer 1956-59, Chair. and Chief Exec. Officer 1959-67, Chair. Exec. Cttee. 1967-71, Dir. 1930-75, Hon. Dir. 1975-; on leave of absence with Steel Div. War Production Bd., Wash. 1941-44; Chair. Steel Production Cttee., War Production Bd. 1941-43, Asst. Dir. 1943-44, Deputy Dir. 1944; Pres. Chicago Assen. of Commerce and Industry 1957-59; Dir. Nat. Merit Scholarship Corpn. 1963-, Chair. 1971-75; Community Fund of Chicago, Vice-Pres. 1950-61, Pres. 1961-63; Dir. Jewish Fed. of Chicago 1931-52, Pres. 1947-50; Hon. Life Trustee Cttee. for Econ. Devt., Ill. Inst. of Tech.; Hon. Dir. Museum of Science and Industry, Chicago; Vice-Chair. of Ill. Bd. of Higher Educ.; mem. Welfare Service Cttee., Cook Co. Dept. of Public Aid; Hon. LL.D. St. Joseph's Coll. (Collegeville), Ind., Bradley Univ., Roosevelt Univ., Ill. Inst. of Tech., Northwestern Univ., Hon. D.Eng. Rose Polytechnic Inst. *Leisure interests:* golf, collecting Lincolnia. *Address:* 30 West Monroe Street, Chicago, Ill. (Office); 1325 Astor Street, Chicago, Ill., U.S.A. (Home).

BLOCK, Leo de, LL.D.; Dutch politician; b. 14 Aug. 1904, The Hague; s. of H. C. A. de Block and M. C. D. Bonnike; m. D. E. C. van Lede 1944; three d.; ed. Rijksuniversiteit te Leiden; various posts in Dutch and foreign banks 1923-47; Ministry of Finance 1947-59; Ministry of Econ. Affairs 1959-60; Exec. Vice-Pres. K.L.M. (Royal Dutch Airlines) 1960-63; State Sec. Foreign Affairs 1963-67 and State Sec. for Transport and Waterways 1966-67; Minister of Econ. Affairs 1967-70; Commdr. Order of Netherlands Lion, Royal Wedding Medal 1966, Grand Cross Orders of Merit (Austria, Luxembourg), St. Olav (Norway), Leopold II (Belgium), Oak Wreath of Luxembourg. *Address:* 5 St. Hubertusweg, The Hague, Netherlands.

BLOEMBERGEN, Nicolaas, DR.PHIL.; American (naturalized 1958) professor of applied physics; b. 11 March 1920, Dordrecht, Netherlands; s. of Auke Bloembergen and Sophia M. Quint; m. Huberta D. Brink 1950; one s. two d.; ed. Univs. of Utrecht and Leiden. Research Fellow, Leiden Univ. 1947-49; Soc. of Fellows, Harvard Univ. 1949-51, Gordon McKay Assoc. Prof. 1951-57, Prof. of Applied Physics 1957-; Guggenheim Fellow 1957; Rumford Prof. of Physics 1974-; Lorentz Guest Prof., Leiden 1973; mem. Nat. Acad. of Sciences (U.S.A.); Corresp. mem. Royal Dutch Acad. of Sciences; Buckley Prize, American Physical Soc., Liebmann Prize, Inst. of Radio Engineers, Ballantine Medal, Franklin Inst., Royal Dutch Acad. of Arts and Sciences, Half Moon Trophy, Netherland Club of New York, Nat. Medal of Science 1974, Lorentz Medal, Royal Dutch Acad. of Sciences 1978, Frederick Ives Medal, Optical Soc. of America 1979. *Publications:* Nuclear Magnetic Relaxation 1961, Nonlinear Optics 1965, over 200 papers in professional journals. *Leisure interests:* travel, skiing, tennis. *Address:* Pierce Hall, Harvard University, Cambridge, Mass., U.S.A. *Telephone:* 617-495 3336.

BLOKHIN, Nikolay Nikolayevich, M.D.; Soviet surgeon and cancer specialist; b. 4 May 1912, Lukoyanov, Gor'kiy Region; s. of Nikolay I. Blokhin and Yevdokiya I. Blokhina; m. Nadyezhda G. Blokhina 1956; one d.; ed. Gor'kiy State Medical Inst.; intern at Gor'kiy Medical Inst. 1934-37, Asst. Prof. in Surgical Clinic 1937-47, Prof. and Chief of Surgical Clinic 1947-52, Dir. of Inst. 1951-52; Dir. Inst. of Experimental and Clinical Oncology of U.S.S.R. Acad. Medical Sciences 1952, later Dir. Cancer Research Centre; Pres. U.S.S.R. Acad. Medical Sciences 1960-68, mem. 1960-; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. CPSU 1948-; Pres. Comm. awarding Int. Lenin prizes 1974-; Pres. Inst. of Soviet-American Relations; Pres. Int. Union against Cancer 1966-70; Foreign mem. Polish Acad. Sciences; Hon. mem. Purkyné Czech Medical Soc.; Life mem. New York Acad. of Sciences; Hero of Socialist Labour, Order of Lenin (three times), Order of Labour Red Banner, Order of Red Star, Hammer and Sickle Gold Medal. *Publications:* Skin-plastic 1956, Problems of Chemiotherapy of Malignant Tumours (Editor) 1960, Modern Diagnostic Methods in Malignant Tumours (Editor) 1967, Manual on Clinical Oncology 1972, and numerous other publications on surgery and cancer research. *Address:* Cancer Research Centre, U.S.S.R. Academy of Medical Sciences, Kashirskoye chaussée, Moscow 115164, U.S.S.R. *Telephone:* 111-83-71.

BLONDIN, Antoine, L. ès L.; French writer; b. 11 April 1922, Paris; m. 1st Sylviane Dollfus, one s. one d.; m. 2nd Françoise Barrère; ed. Lycée Louis-le-Grand and Univ. de Paris; contributor to Paris-Presse, Arts, La Parisienne, etc.; wrote scenarios for the films La route Napoléon, Obsession, La foire aux femmes; Prix des Deux-Magots 1949, Prix Interallié for Un singe en hiver 1959. *Publications:* L'Europe buissonnière, Les enfants du bon Dieu, L'humeur vagabonde, Un singe en hiver, Un garçon d'honneur, Certificats d'études. *Leisure interests:* sport, gastronomy. *Address:* 72 rue Mazarine, 75007 Paris, France.

BLOOM, Claire; British actress; b. 15 Feb. 1931, London; d. of Edward Bloom and Elizabeth Grew; m. 1st Rod Steiger (*q.v.*) 1959 (divorced), 2nd Hillard Elkins 1969 (divorced); one d.; ed. London, Bristol and New York. Oxford Repertory Theatre 1946, Stratford-on-Avon 1948; first major stage apperances in The Lady's Not For Burning 1949, Ring Around the Moon 1950; at Old Vic 1951-53, Duel of Angels 1956; other stage performances include, Andromache in The Trojan women 1964, Sascha in Ivanov, London 1966, Nora in A Doll's House, New York 1971, London 1973, Hedda Gabler in Hedda Gabler, New York 1971, Mary, Queen of Scots in Vivat, Vivat Regina!, New York 1972, A Streetcar Named Desire, London (Evening Standard Drama Award for Best Actress) 1974, The Innocents, U.S.A. 1976, Rosmersholm, London 1977; Fellow, Guildhall School of Music and Drama 1975. *Films include:* Limelight, Man Between, Richard III, Alexander the Great, Brothers Karamazov, Buccaneer, Look Back in Anger, Three Steps to Freedom 1960, The Brothers Grimm, The Chapman Report 1962, The Haunting 1963, 80,000 Suspects 1963, Alta Infedeltà 1963, Il Maestro di Vigevano 1963, The Outrage 1964, Spy Who Came in from the Cold 1965, Three into Two Won't Go 1967, Illustrated Man 1968, Red Sky at Morning 1970, A Doll's House 1973, A Legacy (TV) 1975, Islands in the Stream 1975. *Leisure interests:* walking, music. *Address:* c/o Larry Dalzell, 3 Godwins Court, St. Martins Lane, London W.C.2, England. *Telephone:* 01-240 3086.

BLOUGH, Roger M(iles), A.B., L.LB.; American lawyer and industrialist; b. 19 Jan. 1904, Riverside, near Johnstown, Pa.; s. of Christian E. Blough and Viola Hoffman; m. Helen Decker 1928; twin d.; ed. Susquehanna Univ., Pa. and Yale Law School; teacher Pa. High School 1925-28; studied law 1928-31; with law firm of White & Case, New York 1931-42; Gen. Solicitor for U.S. Steel Corpn. of Delaware 1942-51; Exec. Vice-Pres. (Law) U.S. Steel Co. (in 1953 merged into U.S. Steel Corpn.) 1951, Vice-Chair. Board of Dirs. 1952, Dir. 1952-; Gen. Counsel 1953, Chair. and Chief Exec. Officer 1955-69; partner, White & Case 1969-; Chair. and Dir. First State Bank 1978-; Dir. and founding mem. Business Cttee. for the Arts; Dir. The Commonwealth Fund; Hon. mem. Japan Iron and Steel Fed.; Hon. Vice-Pres. American Iron and Steel Inst.; fmr. mem. Center for Inter-American Relations, Council on Foreign Relations, New York State Bar Assn.; mem. and Fellow American Bar Assn.; Life mem. Acad. of Political Science; numerous other civic affiliations; eighteen hon. degrees. *Leisure interests:* fishing, golfing. *Address:* 300 Keystone Street, Hawley, Pa. 18428 (Office); Blooming Grove, Hawley, Pa. 18428, U.S.A. (Home).

BLOUNT, Winton M.; American business executive; b. 1 Feb. 1921, Union Springs, Ala.; s. of Winton M. Blount and Clara Belle Chalker Blount; m. Mary Katherine Archibald 1942; four s. one d.; ed. Public School, Union Springs, Staunton Military Acad., Univ. of Alabama; bomber pilot—World War II; founded Blount Brothers Corpn. 1946, Pres. and Chair.; Pres. Chamber of Commerce of U.S. April-Dec. 1968; Postmaster-Gen. of U.S. 1969-71; Chair. Exec. Cttee. Blount Inc. 1973, Chair. of Board, Pres. 1974; Dir. Union Camp Corpn., Munford Inc., Cttee. of Religion and Art of America Inc.; mem. Business Council, Business Cttee. for the Arts; Trustee Univ. of Alabama, Southwestern Univ.; Hon. doctorates at Judson Coll., Huntingdon Coll., Birmingham-Southern, Southwestern Univ., Seattle Pacific Coll., Univ. of Alabama, Samford; Citation for Distinguished Service to City of Montgomery and other awards; Republican. *Leisure interests:* skiing, tennis, hunting. *Address:* Route 10, Box 43, Vaughn Road, Montgomery, Ala. 36116, U.S.A.

BLOUT, Elkan R(ogers), A.B., PH.D.; American biochemist; b. 2 July 1919, New York, N.Y.; s. of Eugene and Lillian Blout; m. Joan Dreyfus Blout 1939; two s. one d.; ed. Phillips Exeter Acad. and Princeton and Columbia Univs. Assoc. Dir. of Research, Polaroid Corpn. 1948-58, Vice-Pres. and Gen. Man. of Research 1958-62; Lecturer on Biophysics, Harvard Medical School 1960-62, Prof. of Biological Chem. 1962-, Edward S. Harkness Prof. of Biological Chem. 1964-, Chair. Dept. of Biological Chem. 1965-69, Dean Academic Affairs, Harvard School of Public Health 1978-; Dir. Center for Blood Research 1972-, CHON Corpn. 1974-; Gov. Weizmann Inst. of Science, Rehovot, Israel 1977-; mem. Finance Cttee., Nat. Acad. Sciences 1976-, Finance Cttee. American Acad. Arts and Sciences 1976-, Conseil de Surveillance, Compagnie Financière du Scribe 1975-, Editorial Board International Journal of Peptide Research 1977-, Editorial Board Journal of the American Chemical Society 1978-; foreign mem. U.S.S.R. Acad. of Sciences 1976-; Nat. Research Fellow, Harvard Univ.; Fellow, American Acad. of Arts and Sciences, A.A.A.S., Optical Soc. of America, New York Acad. of Sciences; Trustee Boston Biomedical Research Inst.; Hon. A.M., Hon. D.Sc. (Loyola Univ.) 1976; Class of 1939 Achievement Award, Princeton Univ. 1970. *Publications:* Various articles in specialized journals, including Journal of American Chemical Society, etc. *Leisure interests:* boating, deep-sea fishing. *Address:* Department of Biological Chemistry, Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115 (Office); 1010 Memorial Drive, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* (617) 864-4197.

BLUHDORN, Charles G.; American business executive; b. 20 Sept. 1926, Vienna, Austria; m. Yvette LeMarrec 1953; one s. one d.; ed. City Coll. of New York and Columbia Univ.; formed own company, Intramex Devt. Co. (import-export co.) 1949; acquired Michigan Bumper Co. 1956, from which Gulf and Western Corpn. (name changed to Gulf and Western Industries Inc. 1960) was formed 1958; Chair. and Chief Exec. Gulf and Western Industries Inc. 1958-; Chair. Paramount Pictures Corpn., Famous Players' Canadian Corpn.; Co-Chair. New York chapter of American Cancer Soc., U.S. Savings Bond Drive; Exec. Vice-Pres. Southwest Holdings, Inc.; Partner Intramex Devt. Co.; Pres. Fortune Coffee Corpn. *Address:* Gulf and Western Industries Inc., 1 Gulf and Western Plaza, New York, N.Y. 10023, U.S.A.

BLUM, Yehuda Z., D.JUR.; Israeli lawyer and diplomatist; b. 2 Oct. 1931; m.; two s. one d.; ed. Hebrew Univ., Jerusalem, Univ. of London. Detained in Nazi concentration camp of Bergen-Belsen 1944; Asst. to Judge Advocate-Gen. of Israeli Defence Forces 1956-59; Senior Asst. to Legal Adviser, Minister for Foreign Affairs 1962-65; Prof. of Int. Law Hebrew Univ. 1968-; UNESCO Fellow, Univ. of Sydney July-Aug. 1968; Office of UN Legal Counsel Sept.-Dec. 1968; Senior Research Scholar, Univ. of Mich. Law School 1969; Visiting Prof., School of Law, Univ. of Texas, Austin 1971, New York Univ. 1975-76; mem. Israeli del., Third UN Conference on Law of the Sea 1973, Session of Gen. Assembly 1976; Perm. Rep. to UN 1978-; holder of Hersch Lauterpacht Chair in Int. Law; Law Ed. Encyclopedia Hebraica 1973-. *Publications:* Historic Titles in Int. Law 1975, Secure Boundaries and Middle East Peace 1973. *Address:* Permanent Mission of Israel to the United Nations, 800 Second Avenue, New York, N.Y. 10017, U.S.A.

BLUMBERG, Baruch Samuel, M.D., PH.D.; American research physician; b. 28 July 1925, New York; s. of late Meyer and of Ida (Simonoff) Blumberg; m. Jean Liebesman 1954; two s. two d.; ed. Union Coll., Schenectady, Columbia Univ. Coll. of Physicians and Surgeons, Balliol Coll., Oxford; served U.S. Navy 1943-46; Intern and resident, First (Columbia) Div., Bellevue Hosp., New York 1951-57; Ship's Surgeon 1952; Fellow in medicine, Presbyterian Hosp., New York 1953-55; Dept. of Biochem., Oxford Univ., U.K. 1955-57; Chief of Geographic Medicine and Genetics Section, Nat. Insts. of Health, Bethesda, Md. 1957-64; Assoc. Dir. for Clinical Research, Inst. for Cancer Research, Philadelphia 1964-; Univ. Prof. of Medicine and Anthropology, Univ. of Pa. 1977-; attending physician, Pa. Hosp., Philadelphia Gen. Hosp., Veterans' Admin. Hosp., Hosp. of Univ. of Pa.; mem. Assen. of American Physicians, various other medical soc.; Fellow, Nat. Acad. Sciences; Hon. Fellow, Balliol Coll., Oxford 1976; numerous hon. degrees; Bernstein Award, Medical Soc. of New York, 1969, Eppinger Prize (Freiburg Univ.) 1973, Passano Award 1974, Modern Medicine Distinguished Achievement Award 1975, Karl Landsteiner Award 1975; shared Nobel Prize in Physiology or Medicine for discoveries concerning new mechanisms for origin and dissemination of infectious diseases 1976. *Publications:* Australia Antigen and the Biology of Hepatitis B 1977; numerous papers to scientific journals. *Leisure interests:* middle-distance running, squash racquets, canoeing, cattle raising. *Address:* Institute for Cancer Research, 7701 Burholme Avenue, Fox Chase, Philadelphia, Pa. 19111, U.S.A. (Office). *Telephone:* (215) 728-2203 (Office).

BLUME, Peter; American painter; b. 27 Oct. 1906, Smorgon, Russia; s. of Harry and Rose Blume; m. Grace Douglas Gibbs Craton 1931; ed. New York Educational Alliance Art School; exhibited Daniel Gallery New York 1926-31, Julien Levy Gallery 1937, Durlacher Bros. 1947, Kennedy Gallery 1968, Danenberg Gallery New York 1970, Koe Kerr Gallery 1974; Retrospective Exhbn., Paintings and Drawings 1926-65, Manchester, N.H., and Hartford, Conn. 1964, Paintings, Drawings and Sculpture, Museum of Contemporary Art, Chicago 1976, and museums throughtout U.S.; works in Museum of Modern Art, Whitney, Metropolitan, Newark, Boston, Columbus, Cleveland, Philadelphia and Fogg Museums,

Wadsworth Atheneum, Williams, Randolf-Macon Colls., Art Inst. Chicago; prizeman Carnegie Int. Exhbn., Pittsburgh 1934, and Artists for Victory Exhbn. 1942; Guggenheim Fellowship 1932, renewal 1936; awarded grant of American Acad. of Arts and Letters and Inst. of Arts and Letters 1947; elected Assoc. Nat. Acad. of Design 1948; mem. Nat. Inst. of Arts and Letters 1950, American Acad. of Arts and Letters 1960. *Works:* South of Scranton, Parade, Light of the World, The Eternal City, The Rock, Passagé to Etna, Tasso's Oak, Winter, Summer, Recollection of the Flood, etc. *Leisure interest:* gardening. *Address:* Sherman Church Road, Sherman, Conn. 06784, U.S.A. *Telephone:* 203-354-7429.

BLUMENTHAL (W(erner) Michael, PH.D.; American business executive; b. 3 Jan. 1926, Germany; s. of Ewald Blumenthal and Rose Valerie (Markt) Blumenthal; m. Margaret Eileen Polley 1951; three d.; ed. Univ. of California at Berkeley and Princeton Univ; went to U.S. 1947, naturalized 1952; Research Assoc., Princeton Univ. 1954-57; Labor Arbitrator, State of New Jersey 1955-57; Vice-Pres., Dir. Crown Cork Int. Corpn. 1957-61; Deputy Asst. Sec. of State for Econ. Affairs, Dept. of State 1961-63; also served as U.S.A. Rep. to UN Comm. on Int. Commodity Trade; mem. U.S.A. Del. to 1961 Punta del Este Conf. which initiated The Alliance for Progress; President's Deputy Special Rep. for Trade Negotiations (with rank of Amb.) 1963-67; Chair. U.S. Del. to Kennedy Round tariff talks in Geneva; Pres. Bendix Int. 1967-70; Dir. Bendix Corpn. 1967-77, Vice-Chair. June-Dec. 1970, Pres. and Chief Operating Officer 1971-72, Chair and Chief Exec. Officer 1972-77; Sec. of the Treasury Jan. 1977-; Trustee, The Rockefeller Foundation and Princeton Univ.; Dir. The Equitable Life Assurance Soc. of U.S.A., Atlantic Council of U.S.A., Council on Foreign Relations, Nat. Council for U.S.A.-China Trade; Chair. Board Nat. Cttee. on U.S.A.-China Relations Inc.; mem. Advisory Council on Japan-U.S.A. Econ. Relations and Emergency Cttee. for American Trade (ECAT). *Leisure interests:* tennis, skiing. *Address:* U.S. Treasury Department, 15th Street, N.W., Washington D.C., 20020, (Office); 505 Barton North Drive, Ann Arbor, Mich. 48105, U.S.A. (Home).

BLUNDELL, Sir (Edward) Denis, G.C.M.G., G.C.V.O., K.B.E., O.B.E. (Mil.); New Zealand lawyer and diplomatist; b. 29 May 1907, Wellington; s. of Henry Percy Fabian Blundell; m. June Halligan 1945; one s. one d.; ed. Waitaki High School and Trinity Hall, Cambridge; called to the Bar 1929; Barrister and Solicitor, Wellington 1930-68; Senior Partner, Bell, Gully and Co.; served with N.Z.E.F. 1939-44; Chair. Royal Comms. on Parl. Salaries 1961, 1964, 1967-68; Chair. Air Services Licensing Authority 1952-62; Pres. N.Z. Cricket Council 1957-60, of "Birthright" 1961-68, of N.Z. Law Soc. 1962-68; fmr. Dir. N.Z. Shipping Co. Ltd., N.Z. Breweries Ltd. and others; High Commr. for New Zealand in United Kingdom 1968-72, also Amb. to Ireland 1968-72; Gov.-Gen. of New Zealand 1972-77. *Leisure interests:* cricket, golf, swimming, tennis, walking, squash. *Address:* 655 Riddell Road, Glendowie, Auckland, New Zealand.

BLUNDELL, Sir Michael, K.B.E.; British farmer and politician; b. 7 April 1907, London; s. of Alfred Herbert Blundell and Amelia Woodward Richardson; m. Geraldine Lötte Robarts 1946; one d.; ed. Wellington Coll.; emigrated to Kenya 1925; served in Royal Engineers (Col.) 1939-45; Comm. for European Settlement 1946-47; Chair. Pyrethrum Bd. of Kenya 1949-54, Allsopps African Investments 1949-54; mem. Kenya Legislative Council for Rift Valley Constituency 1948-58, 1961-62; specially selected mem. under Lennox-Boyd Constitution for Kenya, April 1958-61; Acting Leader, European Elected mems. 1951, Leader 1952; Minister on Emergency War Council 1954; Minister of Agriculture 1955-59, 1961-62; Leader New Kenya Party 1959-63; Chair. E. A. Breweries Ltd. 1964-77, Uganda Breweries Ltd. 1965-76; Dir. Barclays Bank D.C.O. (Kenya) 1968; Chair. Egerton Agricultural College 1962-72, Kenya Soc. for the Blind 1978-. *Publication:* So Rough ■ Wind 1964. *Leisure interests:* gardening, music, porcelain, wild-life. *Address:* P.O. Box 30181, Nairobi, Kenya. *Telephone:* Nairobi 512278.

BLUNDEN, George, M.A.; British central banker; b. 31 Dec. 1922, Sutton, Surrey; s. of George Blunden and Florence Holder; m. Anne Bulford 1949; two s. one d.; ed. City of London School, Univ. Coll., Oxford; war service, Royal Sussex Regt. 1941-45; Bank of England 1947-55; Economist, Balance of Payments Div., Int. Monetary Fund 1955-58; various posts, Bank of England 1958-65, Deputy Principal, Discount Office 1965-67, seconded to Monopolies Comm. 1968, Deputy Chief Cashier 1968-73, Chief of Man. Services 1973-74, responsible for banking supervision with rank of head of dept. 1974-76, Exec. Dir. 1976-; Chair. Group of Ten Cttee. on banking supervision 1975-77. *Address:* Bank of England, Threadneedle Street, London, EC2R 8AH, England.

BLUNT, Sir Anthony (Frederick), K.C.V.O., M.A., PH.D., F.B.A., F.S.A.; British art historian; b. 26 Sept. 1907, Bournemouth, Dorset; s. of late Rev. A. S. V. Blunt and Hilda Violet Master; ed. Marlborough and Trinity Coll., Cambridge; Fellow of Trinity Coll., Cambridge 1932-36; on staff of Warburg Inst., London 1937-39; Reader in History of Art London Univ. and Deputy Dir. Courtauld Inst. of Art 1939; war service, France 1939-40, War Office 1940-45; Surveyor of the Pictures of King George VI 1945-52, of the Queen's Pictures 1952-; Prof. of History of Art London Univ. and Dir. Courtauld Inst. of Art 1947-74; Slade Prof. of Fine Art, Univ. of Oxford 1962-63, Univ. of Cambridge 1965-66; Fellow Royal Coll. of Art; Hon. Fellow Trunity Coll., Cambridge 1967, Hon. F.R.I.B.A.; Hon. D. Litt. (Bristol) 1961, (Durham) 1963, (Oxford) 1971, Hon. D. ès L. (Paris) 1966; Commdr. Order of Orange-Nassau 1948, Légion d'honneur 1958. *Publications:* Artistic Theory in Italy 1940, François Mansart 1941, French Drawings at Windsor Castle 1945, Rouault's Miserere 1951, The Drawings of Nicolas Poussin (with Walter Friedlaender) 1939-75, Art and Architecture in France 1500-1700 1953, The Drawings of G. B. Castiglione and Stefano Della Bella at Windsor Castle 1954, Venetian Drawings at Windsor Castle 1957, Philibert de l'Orme 1958, The Art of William Blake 1959, Roman Drawings at Windsor Castle (with H. L. Cooke) 1960, Picasso, the Formative Years (with Phoebe Pool) 1962, Seurat (introduction and notes) 1965, The Paintings of Nicolas Poussin 1966, Nicolas Poussin (2 vols.) 1967, Picasso's Guernica 1967, Sicilian Baroque 1968, Supplements to the catalogues of the Italian and French Drawings at Windsor Castle 1971, Baroque and Rococo Architecture in Naples 1975. *Address:* 45 Portsea Hall, Portsea Place, London, W.2. England.

BLUYSSEN, Most Rev. Johannes Wilhelmus Maria; Netherlands ecclesiastic; b. 10 April 1926, Nijmegen; ed. St. Michielsgestel and Haaren Episcopal Seminaries; Curate, Veghel 1950-52; Vice-Prefect Seminary St. Michielsgestel 1952-54; studied in Rome 1954-57; Spiritual Dir. Seminary St. Michielsgestel 1957-61; Joint Bishop of 's-Hertogenbosch 1961-66, Bishop 1966-. *Address:* Parade 10, 's-Hertogenbosch, Netherlands. *Telephone:* 073-133551.

BO, Hideo; Japanese politician; b. 1905; began career ■■ journalist; elected 10 times to House of Reps. for constituency in Wakayama Prefecture; assoc. of Takeo Fukuda (*q.v.*) since early 1960s; fmr. Parl. Vice-Minister of Health; fmr. Chair. Research Comm. on Tax System, Liberal-Democratic Party (LDP); various posts in admin. of late Eisaku Sato 1964-72, incl. Minister of Health, also Vice-Chair. Policy Research Council of LDP; Minister of Finance 1976-77; Gov. IMF March-Nov. 1977. *Leisure interest:* karate. *Address:* c/o Ministry of Finance, 1-1, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, Japan.

BOARDMAN, Thomas Gray, M.C., T.D., D.L.; British lawyer and company director; b. 12 Jan. 1919, Staverton Hall, Northants; s. of John Clayton and Janet Boardman; m. Norah Mary Deirdre Chaworth-Musters (née Gough) 1948; two s. one d.; ed. Bromsgrove School; served Northamptonshire Yeomanry 1939-45, later Commdr.; qualified solicitor 1947; Conservative M.P. for Leicester South West, later for Leicester South 1967-74; Minister for Industry 1972-74; Chief Sec. to the Treasury Jan.-March 1974; Pres. Assn. of British Chambers of Commerce 1977-; Chief Exec. Officer May 1979-; Chair. Steetly Co. Ltd.; Dir. Nat. Westminster Bank, Eastern Region. *Leisure interests:* riding, fox hunting. *Address:* Flat 29, Tufton Court, London S.W.1.; The Manor House, Welford Northamptonshire, England (Home). *Telephone:* 01-222 6793 (London); Welford 235 (Home)

BOATEN, Frank Edmund; Ghanaian diplomatist; b. 17 Dec. 1923; s. of late Hanson Edmund Acheampong and of Madam Christiana Tumtuo; m. Christina Esther (Amoo-Gottfried) 1955; ed. Univ. Coll. of the Gold Coast and Univ. of London; First Sec., Ghana High Comm., New Delhi 1957-59; Counsellor, Ghanaian Embassy, Moscow 1960; Dir. Eastern European Div. and later Dir. of Admin., Accra 1960-66; Sec.-Gen. Accra Ass. 1962-66; Del. numerous confs. Australia, Finland, Sweden, Switzerland, U.S.S.R., U.K. and U.S.A.; Prin. Sec. Ministry of Foreign Affairs 1966-71; mem. Ghana Constitutional Ass. 1969; Visiting Fellow, Queen Elizabeth House and Senior Assoc. mem. St. Antony's Coll., Oxford 1971-72; Perm. Rep. to UN. 1972-, concurrently Amb. to Cuba 1974-; Vice-Pres. UN Gen. Ass. 1974-; Chair. UN Financial Emergency Cttee. 1976-, First Cttee, for the 32nd Session of the UN Gen. Ass. 1977; fmrly. Assoc. mem. Royal Inst. of Int. Affairs, Inst. of Commonwealth Studies. *Leisure interests:* coin collecting, tennis. *Address:* Permanent Mission of Ghana to United Nations, 150 East 58th Street, 27th Floor, New York, N.Y. 10022, U.S.A. *Telephone:* 832-1300.

BOBBIO, Norberto, DR. JUR. ET PHIL.; Italian professor; b. 18 Oct. 1909, Turin; s. of Luigi and Rosa Caviglia; m. Valeria Cova 1943; three c.; ed. Univ. of Turin; Prof. of Legal Philosophy, Univs. of Camerino 1935-38, Siena 1938-40, Padua 1940-48 and Turin 1948-; Ordinary Fellow, Accad. dei Lincei. *Publications:* L'analogia nella logica del diritto 1938, Politica e cultura 1955, Italia civile 1964, Da Hobbes a Marx 1965, Giusnaturalismo e positivismo giuridico 1965, Saggi sulla scienze politica in Italia 1969, Una filosofia militante 1971, Dalla struttura alla funzione 1977, Quale socialismo? 1977. *Address:* Via Sacchi 66, Turin, Italy. *Telephone:* 59-70-56.

BOBLETER, Carl H.; Austrian diplomatist; b. 5 July 1912; ed. Innsbrück, Vienna and Paris; Consul in Hamburg and Düsseldorf 1948-50; Attaché, Ministry of Foreign Affairs, Directorate for Political Economy 1950-53; Rep. of Austria to High Authority of European Iron and Steel Community 1953-58; Rep. of Austria on Council of OEEC, later OECD 1958-60; Austrian Rep. to Council of EFTA in Geneva 1960-64; Sec. of State, Ministry for Foreign Affairs, Vienna 1964-68; Head, Perm. Austrian Del. to OECD 1968-78; Chair. Energy Policy Cttee. and Advisory Bd. of Devt. Centre, OECD. *Address:* c/o Ministry of Foreign Affairs, Vienna, Austria.

BO-BOLIKO LOKONGA MONSE MIHOMO; Zairian trade unionist and politician; b. (as André Bo-Boliko) 15 Aug. 1934, Lobamiti, Bandundu; ed. Saint Raphael School, Léopoldville (now Kinshasa), and Ecole Sociale d'Heverlée-Louvain, Belgium; Perm. Regional Sec. and Nat. Admin. Sec. Confed. of Christian Trade Unions of the Congo 1959; Sec.-Gen. Union of Congolese Workers (UTC) 1960; on secondment to govt., mem. Coll. of Commrs. Gen., Asst. Commr. for Labour and Social Services 1960-61; elected Nat. Pres. UTC 1961; Pres. Trade Union Fed. of the Congo 1962, Nat. Council of Congolese Trade Unions 1967-; Sec.-Gen. Nat. Union of Congolese Workers 1967- (from 1971 Nat. Union of Zairian Workers); mem. Senate 1965; mem. Political Bureau, Mouvement Populaire de la Révolution (MPR) 1968-, mem. Perm. Cttee. 1975-; People's Commr. and Pres. Nat. Ass. (now Nat. Legislative Council) 1970-79; First State Commr. 79-; mem. Constitutional Comm., Luluabourg (now Kananga) 1964; Admin., Nat. Inst. of Political Studies; Vice-Pres. Parliamentary Conf. of Assen. of the EEC and the African, Caribbean and Pacific Nations 1973; Pres. Zaire Nat. Group of the Inter-Parliamentary Union; Hon. mem. African Consultative Comm. for Labour, ILO; Grand cordon, Ordre Nationale du Léopard, Grand croix, Légion d'honneur (Togo), Nat. Orders of Chad, Congo, Ivory Coast, Liberia, Mauritania, Romania, Senegal and Tunisia. *Address:* Office of the President, National Legislative Council, Kinshasa, Zaire.

BOCHENSKI, Joseph, O.P., D.D., PH.D.; Swiss (b. Polish) philosopher; b. 30 Aug. 1902, Czuszów, Poland; s. of Adolph and Maria B. Dunin-Borkowska; ed. Univs. of Lwów and Poznań; lecturer, Angelicum, Rome 1934-36; Prof. 1937-40; Docent Univ. of Cracow 1938; served Polish Army Great Britain 1940-44, Italy 1944-45; Extr. Prof. Univ. of Fribourg 1945-48, Prof. 1948-72, Dean Faculty of Arts 1950-52, Rector 1964-66, Vice-Rector 1966-68; Visiting Prof. Univ. of Notre Dame. Ind. 1955-56, Univ. of Pittsburgh 1958, Univ. of Calif. 1958-59, Univ. of Kansas 1960, Univ. of Salzburg 1976; Dir. East-European Study Centre, Fribourg 1958, Ost-Kolleg, Cologne 1962; Hon. LL.D. (Notre Dame) 1966, Hon. Ph.D. (Buenos Aires) 1977. *Publications:* De cognitione Exist. Dei 1936, Elementa logicae Graecae 1937, Nove lezioni di logica simbolica 1938, S. Thomae Aq. De modalibus 1940, La logique de Théophraste 1947, Petri Hispani Summulae Logicales 1947, Europäische Philosophie der Gegenwart 1947, On Analogy 1948, Précis de logique mathématique 1949, Diamat 1950, Ancient Formal Logic 1951, Die zeitgenössischen Denkmethoden 1954, Formale Logik 1956, Handbuch des Welt-kommunismus (ed.) 1958, Wege zum philosophischen Denken 1960, Die dogmatischen Grundlagen der sowjetischen Philosophie 1960, Logic of Religion 1965, Editor Studies in Soviet Thought and Sovietica, Was ist Autorität? 1974. *Leisure interest:* flying. *Address:* 1 Place George Python, CH-1700 Fribourg, Switzerland. *Telephone:* 037-22-28-02.

BOCHNER, Salomon, DR. PHIL.; American mathematician; b. 20 Aug. 1899, Cracow, Poland; s. of Joseph and Rude Bochner; m. Naomi Weinberg 1937 (deceased 1971); one d.; ed. Univs. of Berlin, Copenhagen, Oxford and Cambridge; Int. Educ. Bd. Fellow 1925-27; Lecturer Univ. of Munich 1927-33; Faculty mem., Princeton Univ. 1933-68, Henry Burchard Fine Prof. 1959-68, Prof. Emer. 1968-; Edgar Lovett Prof. of Math, Rice Univ. 1968-; Assoc. Editor McGraw Hill Encyclopedia of Science and Technology 1960-; mem. Editorial Board, Dictionary of the History of Ideas 1967-. *Publications include:* The Role of Mathematics in the Rise of Science 1966, Eclosion and Synthesis, Perspectives on the History of Knowledge 1969, articles in the Dictionary of the History of Ideas 1973. *Address:* Fine Hall, Princeton University, Princeton, N.J. 08540; and Department of Mathematics, Rice University, Houston, Tex. 77001, U.S.A. *Telephone:* (609) 452-4200 (Princeton); (713) 527-8101, Ext. 3389 (Houston).

BOCHVAR, Andrey Anatoliyevich; Soviet metallographer; b. 8 Aug. 1902, Moscow; ed. Moscow Higher Technical School. Instructor, Moscow Higher Technical School 1923-30; Instructor, Moscow Inst. of Non-Ferrous Metals and Gold 1930-34, Prof. 1934-60; Prof. Moscow Inst. of Steel 1961-; mem. U.S.S.R. Acad. of Sciences 1946–; Bureau mem. Physical Chem. and Tech. of Inorganic Materials, U.S.S.R. Acad. of Sciences 1963-; State Prize (four), Lenin Prize 1961, Hero of Socialist Labour, Hammer and Sickle Gold Medal, Order of Lenin (four), and other awards. *Publications:* Study of Mechanism and Kinetics of Alloy Crystallisation of Eutectic Types 1935, Principles of Hot Working of Alloys 1940, On Different Mechanisms of Plasticity in Metallic Alloys 1948, Metallography 1956, On the Development of Doubles by Deforming Metals 1964. *Address:* Academy of Sciences of U.S.S.R., Leninsky Prospekt 14, Moscow, U.S.S.R.

BOCK, Edward John, M.S.; American chemicals executive; b. 1 Sept. 1916, Fort Dodge, Ia.; s. of Edward J. and Maude (Juday) Bock; m. Ruth Kunerth 1941; two s. two d.; ed. Iowa State Univ.; joined Monsanto Co. as an engineer 1941; Plant Man. Columbia, Tenn. 1948; Assoc. Dir. of Marketing, Inorganic Chemicals Div. 1956, Dir. of Marketing 1957, Asst. Gen. Man. 1958, Vice-Pres. 1960, Gen. Man. 1960, Vice-Pres. (Admin.), mem. Board of Dirs. and mem. Exec. Cttee. 1965; mem. Corporate Devt. Cttee. 1967; Pres. of Monsanto Co., Chair. Corporate Devt. Cttee. and Exec. Cttee. 1968-72; Dir. Northern Natural Gas Co. of Omaha, Tri-Continental Leasing Co., Midcoast Aviation Inc., G. B. Barnard Corp., Meyer-Blante Co.; Pres. and Chief Exec. Officer Cupples Co., St. Louis 1976-; mem. Board of Govs., Iowa State Univ. Foundation. *Leisure interests:* amateur radio, golf, hunting, boating. *Address:* 7 Huntleigh Woods, St. Louis, Mo. 63131, U.S.A.

BOCK, Fritz, LL.D.; Austrian politician; b. 1911; ed. Univ. of Vienna; joined Austrian People's Party 1945, Head of section of Social Policy 1947; Gen. Counsellor Austrian Nat. Bank 1947-51; M.P. 1949-62; Sec. of State, Fed. Ministry of Commerce and Reconstruction 1952-55, Fed. Ministry of Finance 1955-56, Fed. Minister of Commerce and Reconstruction 1956-66; Vice-Chancellor and Minister of Commerce, Trade and Industry 1966-68; Vice-Pres. Austrian Econ. Fed.; Chair. Supervisory Board of Creditanstalt-Bankverein; Pres. Org. for Int. Econ. Relations; numerous decorations. *Address:* Braungasse 37, A-1170 Vienna, Austria.

BOCK, Jerry (Jerrold Lewis); American composer; b. 23 Nov. 1928, New Haven; s. of George and Rebecca (Alpert) Bock; m. Patricia Faggen 1950; one s. one d.; ed. Univ. of Wisconsin; wrote scores for high school and coll. musicals; author of sketches for television 1951-54; composed songs for film Wonders of Manhattan 1956; composed music for show Mr. Wonderful 1956, and with Sheldon Harnick (*q.v.*) The Body Beautiful 1958, Fiorello 1959 (Pulitzer Prize, Antoinette Perry (Tony) Awards), Tenderloin 1960, She Loves Me 1963, Fiddler on the Roof 1964, The Apple Tree 1966, The Rothschilds 1970; mem. Wilderness Soc., Horticultural Soc., New York, Broadcast Music Inc., American Civil Liberties Union. *Address:* 145 Wellington Avenue, New Rochelle, N.Y. 10804, U.S.A. (Home).

BOD'A, Koloman, DR.SC.; Czechoslovak doctor of veterinary medicine and politician; b. 4 April 1927, Horná Strehová; ed. Coll. of Veterinary Medicine, Brno; Asst. Faculty of Veterinary Medicine, Agricultural Coll., Košice 1951-63; Postgraduate studies, Moscow Veterinary Acad. 1955-58; Asst. Prof. Agricultural Coll., Košice 1959-62, Prof. 1962, Vice-Dean 1958-60, Pro-Rector 1960-63; Commr. of Slovak Nat. Council for Agric. and Food 1963-68; Minister, Chair. of Fed. Cttee. for Agric. and Food 1969-70; Alt. mem. Cen. Cttee. CP of Slovakia 1958-62, 1966-69, mem. 1967-71; Alt. mem. Cent. Cttee. CP of Czechoslovakia 1962-66, mem. 1966-71; mem. Presidium Slovak Nat. Council 1963-68, Deputy 1966-71; Alt. mem. Presidium of Cen. Cttee. CP of Slovakia 1966-68, mem. 1968-69; Deputy to House of Nations, Fed. Assembly 1968-71; mem. Econ. Council of Fed. Govt. 1969-70; Corresp. mem. Czechoslovak Acad. of Sciences 1965-, Slovak Acad. of Sciences 1966-; Chair. Czechoslovak Agricultural Acad. 1969-74; Dir. of Research Inst. of the Physiology of Farm Animals, Slovak Acad. of Sciences 1972-; Distinction for Merit in Construction 1962, Klement Gottwald State Prize 1967, Silver Plaque of Czechoslovak Agric. Acad. 1977, Hon. Golden Medal, Slovak Acad. of Sciences 1977. *Address:* Czechoslovak Academy of Agriculture, Gorkého 32, Prague, Czechoslovakia.

BODE, Hendrik Wade, A.M., PH.D.; American research engineer; b. 24 Dec. 1905, Madison, Wis.; s. of Boyd Henry Bode and Bernice

Ballard; m. Barbara L. Poore 1933; two d.; ed. Ohio State Univ. and Columbia Univ.; Asst. Mathematics Dept., Ohio State Univ. 1925-26; mem. Technical Staff, Bell Telephone Lab. 1926-67, Research Mathematician 1944-52, Dir. Mathematical Research 1952-55, Dir. of Research (Physical Sciences) 1955-58, Vice-Pres. 1958-67; Gordon McKay Prof. of Systems Eng., Harvard Univ. 1967-74, Emer. Prof. 1974-; Visiting Fellow, Princeton Univ. 1948-49; mem. Nat. Acad. of Sciences (Councillor 1967-70); mem. Nat. Acad. of Eng., Physical Soc., Inst. of Electrical and Electronic Engineers, American Inst. of Aeronautics and Astronautics, Mathematical Soc., American Acad. of Arts and Sciences, etc.; Hon. Sc.D. (Ohio State Univ.) 1970, (Univ. of Illinois) 1977; Presidential Certificate of Merit 1948; Edison Medal of Inst. of Electrical and Electronic Engineers 1969, Oldenburger Medal, A.S.M.E. 1975. *Publications:* Network Analysis and Feedback Amplifier Design 1945; patents and papers mostly on electric circuit theory published especially in Bell System Technical Journal. *Leisure interests:* gardening, boating. *Address:* 321 Pierce Hall, 29 Oxford Street, Harvard University, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-2850.

BODENSTEIN, Dietrich H. F. A., PH.D.; American professor of biology; b. 1 Feb. 1908, Corwingen, E. Prussia; s. of Hans and Charlotte (Lilienthal) Bodenstein; m. Jean Coon 1947; one d.; ed. Univ. of Freiburg, Germany; Research Asst., Kaiser Wilhelm Inst. of Biology, Berlin 1928-33; Research Assoc., German-Italian Inst. of Marine Biology, Rovigno d'Istria, Italy 1933-34, Stanford School of Biology, Calif. 1934-41; John Simon Guggenheim Memorial Fellow, Dept. of Zoology, Columbia Univ. 1941-43; Asst. Entomologist Conn. Agricultural Experimental Station, New Haven, Conn. 1944; Insect Physiologist, Medical Div. Army Chemical Center, Md. 1945-57; Embryologist Nat. Heart Inst., Gerontology Branch, Baltimore City Hospitals 1958-60; Lewis and Clark Prof. of Biology, Univ. of Va. 1960-78, Chair of Dept. 1960-73, Prof. Emer. 1978; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Hon. mem. Biological Soc. of Brazil; Alexander von Humboldt Award (Fed. Repub. of Germany) 1977. *Publications:* Some 80 publications in learned scientific journals. *Leisure interests:* gardening, reading. *Address:* Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, Va. 22903 (Office); 536 Valley Road, Charlottesville, Va. 22903, U.S.A. (Home). *Telephone:* 293-9270 (Home).

BODIAN, David, PH.D., M.D.; American medical scientist and professor of anatomy; b. 15 May 1910, St. Louis, Mo.; s. of Harry Bodian and Tillie Franzel; m. Elinor Widmont 1944; two s. three d.; ed. Univs. of Chicago, Michigan and Johns Hopkins Univ.; Asst. in Anatomy, Univ. of Chicago 1935-38; Research Fellow, Univ. of Mich. 1938, Johns Hopkins Univ. 1939-40; Asst. Prof. of Anatomy, Western Reserve Univ. 1941-42; Asst. Prof of Epidemiology, Johns Hopkins Univ. 1942-46, Assoc. Prof. 1946-57, Prof. of Anatomy and Dir. Dept. of Anatomy 1957-75, Prof. Neurobiology, Dept. Otolaryngology 1975-; mem. Bd. Scientific advisers Nat. Inst. of Neurological Diseases 1968-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Assn. of Anatomists (Pres. 1971-72), American Philosophical Assn. American Soc. of Cell Biology, American Philosophical Soc., Soc. for Neuroscience, American Assn. for the Advancement of Science; Hon. mem. Soc. Française de Neurologie, Paris; E. Mead Johnson Award 1941, Distinguished Service Award, Univ. of Chicago Alumni 1955, U.S. Public Health Service Award 1956, Poliomyelitis Hall of Fame, Georgia Warm Springs 1957. *Publications:* Neural Mechanisms in Poliomyelitis (with H. A. Howe) 1942; numerous articles on neurobiology, poliomyelitis and experimental neurology in scientific journals 1936-71. *Leisure interests:* gardening, reading, music, tennis, chess. *Address:* School of Medicine, Johns Hopkins University, 720 Rutland Avenue, Baltimore, Md. 21205 (Office); 3917 Cloverhill Road, Baltimore, Md. 21218, U.S.A. (Home). *Telephone:* 301-955-3877.

BODSON, Victor Hubert Joseph, LL.D.; Luxembourg barrister; b. 24 March 1902, Luxembourg; s. of Leon Bodson and Therese Kimmes; m. Aline Krancher 1952; two s. three d.; ed. Athénée de Luxembourg and Univs. of Strasbourg, Algiers and Montpellier; mem. Luxembourg Socialist Labour Party 1930; mem. Communal Council 1934-40; Minister of Justice, Transport and Public Works 1940-47, 1951-59; mem. Chamber of Deputies 1934-61, Vice-Pres. 1937-40, 1948-51, 1959-61, Pres. 1964-67, Hon. Pres. 1967-; Councillor of State 1961-64, Hon. Councillor of State 1964-; Pres. Int. Assn. of French-language Parliamentarians 1967-72; mem. Comm. of European Communities 1967-70; mem. for Luxembourg (Socialist) of Action Cttee. for United States of Europe 1959-67; numerous foreign decorations. *Leisure interests:* hunting, travel, archaeology, history. *Address:* 11A boulevard Joseph II (Office); Villa Malpaartes, Mondorf-les-Bains, Grand Duchy of Luxembourg (Home). *Telephone:* 42155 (Office); 68915(Home).

BODYUL, Ivan Ivanovich; Soviet politician; b. 3 Jan. 1918; ed. Moscow Mil. Veterinary Acad. and Higher Party School, Central Cttee. of CPSU; Veterinary Surgeon, Soviet Army 1942-46; Asst. Chief. Agricultural Group, Moldavian Council of Ministers 1946-48; Govt. Controller of State Farms, Moldavian S.S.R. 1948-51; econ. work 1952-54; party work 1951-52, 1954-56; Apparatus of Cen. Cttee. of CPSU 1958-59; Second Sec. CP of Moldavian S.S.R. 1959-61, First Sec. 1961-; mem. Cen. Cttee. of CPSU 1961-; Deputy to Supreme Soviet of U.S.S.R. 1965-, and Moldavian S.S.R.; Order of Lenin (three times), and other decorations. *Address:* Cen. Cttee. of the CP of Moldavia, Kishinev, U.S.S.R.

BOEKELHEIDE, Virgil Carl, PH.D.; American professor of chemistry; b. 28 July 1919, S. Dakota; s. of Charles F. Boekelheide and Eleanor Toennies; m. Caroline A. Barrett 1945; two s. one d.; ed. Univ. of Minnesota; Instructor, Univ of Ill. 1943-46; Asst. Prof. Univ. of Rochester 1946-60; Prof. of Chem., Univ. of Oregon 1960-; mem. Nat. Acad. of Sciences 1962-; Guggenheim Fellow 1953-54; Swiss American Foundation Fellow 1960; Roche Anniversary Fellow 1963-64; Welch Lecturer 1968; Fulbright Distinguished Prof., Yugoslavia 1972; mem. Bd. of Editors Organic Reactions 1956-. Organic Syntheses 1956-64, Journal of American Chemical Society 1964-74; mem. Council for Int. Exchange of Scholars (Sr. Fulbright-Hayes Awards). *Publications:* 175 original research papers. *Leisure interests:* tennis and music. *Address:* 2017 Elk Drive, Eugene, Oregon 97403, U.S.A.

BOENISCH, Peter H.; German journalist; b. 4 May 1927, Berlin; s. of Konstantin Boenisch and Eva Boenisch (née Premysler); m. Victoria von Schack 1959; ed. Dr. Hugo Eckner Coll., Berlin Univ.; Political Editor Die Neue Zeitung 1945-49; Editor Tagespost 1949-52; Special Asst. to Pres. Nordwest-Deutsche-Rundfunk 1952-55; Editor Kindler Publishing Co. 1955-59, Springer Publishing Corpn. (Berliner Illustrierte, Bild-Zeitung, Bild am Sonntag) 1959-; Chair. Editorial Bd. Die Welt 1978-; Vice-Chair. Axel Springer Group, responsible for planning and development; Order of Merit (Fed. Repub. of Germany), Bayerischer Verdienstorden 1976. *Leisure interests:* golf, antiques. *Address:* Verlag Axel Springer, Kochstr. 50, 1 Berlin 61, Federal Republic of Germany. *Telephone:* Berlin 2591-2449.

BOERMA, Addeke Hendrik; Netherlands agricultural engineer; b. 3 April 1912, Anloo; m. Dinah Johnston 1953; ed. Agricultural Univ., Wageningen; Netherlands Farmers' Org. 1934-38; Adviser to Food Office, Ministry of Agric. 1938-41; Dir. Crop Marketing Bd. and of Dutch Purchasing Office for Agric. Produce 1941-44; Govt. Commr. for Food and Agric., liberated parts of Netherlands 1944-45; Acting Dir.-Gen. of Food 1945-46; Govt. Commr. for Foreign Agricultural Relations 1946-48; Regional Rep. for Europe, Food and Agric. Org. of the United Nations (FAO) 1948-51, Dir. Econs. Div. FAO 1951-58, Head of Program and Budgetary Service, FAO 1958-62, Asst. Dir.-Gen. FAO 1960-67, Exec. Dir. World Food Program, FAO 1962-67, Dir.-Gen. FAO 1968-76; Dr. h.c. (Netherlands, Belgium, Hungary, Italy, Greece, U.S.A., Canada); Commdr. Order of Lion (Netherlands) 1975, Order of Leopold II (Belgium) 1948, Officer Ordre du Mérite agricole (France) 1948, Cavaliere di Gran Croce (Italy) 1976, Waterler Peace Prize, Carnegie Foundation, The Hague 1976. *Leisure interests:* history, music. *Address:* Vienna, Austria.

BOERSMA, Jacob; Netherlands politician; b. 2 Dec. 1929, Leeuwarden; m.; ed. Econ. Inst., Rotterdam and Free (Calvinist) Univ. Amsterdam; fmrly. held various exec. positions in planning, social, advisory and consumer orgs.; mem. Second Chamber of Parl.; mem. European Parl., Strasbourg; Minister for Social Affairs 1971-77; Calvinist Protestant. *Address:* c/o Minister for Social Affairs, 73 Zeestraat, The Hague, Netherlands. *Telephone:* 070-469-470.

BOESCHENSTEIN, William Wade; American glass executive; b. 7 Sept. 1925, Chicago, Ill.; s. of Harold and Elizabeth (Wade) Boeschenstein; m. Josephine Moll 1953; four s.; ed. Phillips Acad. and Yale Univ.; Owens-Corning Fiberglas Corpn., Detroit 1950-, Branch Man. 1955-59, Vice-Pres. (Central Region) 1959-61, Vice-Pres. (Sales Branch Operations) 1961-63, Vice-Pres. (Marketing) 1963-67, Exec. Vice-Pres. 1967-71, Pres. Aug. 1971-, Chief Exec. Officer 1973-. *Leisure interests:* golf, skiing, tennis. *Address:* Owens-Corning Fiberglas Corporation, Fiberglas Tower, Toledo, Ohio 43659, U.S.A. *Telephone:* 419-248-7300.

BOEYNANTS, Paul Van Den; Belgian politician; b. 22 May 1919; ed. Collège Saint-Michel; fmr. butcher; mem. Chamber of Reps. 1949-; Minister of Middle Classes 1958; Dir. 1958 Exhbn., Brussels; Chair. Social Christian Party 1961-68; Prime Minister 1966-68, (acting) 1978-79; Deputy Prime Minister and Minister of Defence April 1979-; Minister of Defence 1972-, of Brussels Affairs 1974-77. *Address:* Office of the Deputy Prime Minister, Wetstraat 16, B-1000, Brussels, Belgium.

BOGAERS, Petrus Clemens Wilhelmus Maria, DRS.ECON.; Netherlands trade unionist and politician; b. 2 July 1924, Cuyk a/d Maas; s. of Petris P. M. J. Bogaers and Henrica Maria Hermans; m. Femmigje Visscher 1950; four s. three d.; ed. Episcopal Coll. Grammar School, Roermond, and Tilburg School of Economics. Asst. to Prof. v.d. Brink 1947; Econ. Adviser to Roman Catholic Worker's Union 1948, Head Scientific Advisory Section 1957-63; [illegible] Socio-Economic Council 1954; [illegible] Econ. and Social Cttee. European Economic Communities 1958; mem. Second Chamber, Netherlands Parl. 1959; Minister of Housing and Building 1963-65; Minister of Housing and Physical Planning 1965-66; Pres. Gooiland Region 1968-74, Netherlands Asthma Foundation 1976–; mem. Supervisory Boards various Dutch cos. 1976-; Commdr. Order of Orange-Nassau. *Leisure interests:* reading, tennis, open-air life. *Address:* Lingenskamp 25, Laren, North Holland, Netherlands. *Telephone:* 83148 (02153).

BOGARDE, Dirk (Van den Bogaerde, Derek Niven); British actor; b. 28 March 1920; ed. Allan Glen's School, Glasgow, Univ. Coll. School, London, and Chelsea Polytechnic; Army Service 1940-46. *Roles in plays include:* Cliff in Power without Glory 1947, Orpheus in Point of Departure 1950, Nicky in The Vortex 1953, Alberto in Summertime 1955-56, Jezebel 1958. *Films include:* Hunted, Appointment in London, They Who Dare, The Sleeping Tiger, Doctor in the House, Doctor at Sea, Doctor at Large, The Spanish Gardener, Cast [illegible] Dark Shadow, Ill Met by Moonlight, A Tale of Two Cities, The Wind Cannot Read, The Doctor's Dilemma, Libel, Song Without End, The Angel Wore Red, The Singer Not the Song, Victim, H.M.S. Defiant, Password is Courage, The Mind Benders, I Could Go on Singing, The Servant, Doctor in Distress, Hot Enough for June, High Bright Sun, King and Country, Darling . . . , Modesty Blaise, Accident, Our Mother's House, Sebastian, Justine, The Fixer, Upon This Rock, The Damned, Death in Venice, The Serpent, The Night Porter, Permission to Kill, Providence, A Bridge Too Far, Despair. *Publications:* A Postillion Struck by Lightning (autobiography) 1977, Snakes and Ladders (autobiography) 1978. *Address:* c/o Harbottle and Lewis, 34 South Molton Street, London, W.I., England.

BOGDAN, Corneliu; Romanian diplomatist; b. 5 Nov. 1921, Bucharest; s. of Horia and Silvia Bogdan; m. Emilia Milco 1949; three d.; ed. Inst. for Economic Studies Int. Relations Dept., Bucharest; joined Ministry of Foreign Affairs 1948; Counsellor, Wash. 1951-53; Deputy Dir. Western Dept., Ministry of Foreign Affairs 1953-55, Dir. of Press 1955-61, Dir. for Western Europe 1961-67, for Americas 1976-; Amb. to U.S.A. 1967-76; various orders. *Address:* c/o Ministry of Foreign Affairs, Bucharest, Romania.

BOGDANOVICH, Peter; American film director; b. 30 July 1939, Kingston, N.Y.; s. of Borislav and Herma (Robinson) Bogdanovich; m. Polly Platt 1962 (divorced 1973); two d.; Actor, American Shakespeare Festival, Stratford Conn. 1956, N.Y. Shakespeare Festival 1958; Dir. Producer off-Broadway plays, The Big Knife 1959, Once in a Lifetime 1964; film critic, writer for Esquire, New York Times, Village Voice 1959-; Owner Saticoy Productions Inc., Los Angeles 1968-, Copa de Oro Productions, Los Angeles 1973-; Co-Founder Directors Co. 1972; mem. Dirs. Guild of America, Writers' Guild of America, Acad. of Motion Picture Arts and Sciences; N.Y. Film Critics' Award for Best Screenplay (The Last Picture Show) 1971, Soc. of Film and TV Arts Award 1927, Writers' Guild of America Award for Best Screenplay (What's Up, Doc?) 1972. *Films include:* Targets (directed, wrote, produced, acted in) 1968, The Last Picture Show (dir., wrote) 1971, Directed by John Ford (dir., wrote) 1971, What's Up Doc? (dir., wrote, prod.) 1972, Paper Moon (dir., prod.) 1973, Daisy Miller (dir., prod.) 1974, At Long Last Love (dir., wrote, prod.) 1975, Nickelodeon (dir., wrote) 1976. *Publications:* John Ford 1968, Fritz Lang in America 1969, Allan Dwan, the Last Pioneer 1971, Pieces of Time: Peter Bogdanovich on the Movies 1973, Picture Shows 1975. *Address:* Saticoy Productions/Copa de Oro Productions, 300 Colgems Square, Burbank, Calif. 91505, U.S.A.

BOGERS, Willem Adrianus Johannes; Netherlands business executive; b. 18 June 1922, Venlo; s. of Petrus A. Bogers and Wilhelmina A. C. van Rijt; m. Willy J.Th.M. Coehorst 1951; one s. two d.; ed. Univ. of Econ. Science, Tilburg; with Univ. of Econ. Science; joined DSM 50, Man. Dir. 1966-73, Chair. 1973-, Pres. Man. Bd. 1975-; Commdr., Order of Orange-Nassau, Leopold II, St. Gregory the Great. *Leisure interests:* reading, walking, swimming. *Address:* DSM, Post bus 65, 2 Van der Maesenstraat, Heerlen; Zandweg 22, Heerlen, Netherlands (Home).

BOGGS, James Caleb, B.A., LL.B.; American lawyer and politician; b. 15 May 1909, Cheswolc, Del.; s, of Edgar J. and Lettie (Vaughan) Boggs; m. Elizabeth Muir 1931; one s. one d.; ed. Dover High School, Del., Univ. of Delaware and Georgetown Univ. Law School; Army Command and Gen. Staff Coll., Fort Leavenworth, Kentucky 1942; admitted to Bar, Del. Supreme Court 1938, U.S. Supreme Court 1946; Judge Family Court, New Castle County, Del. 1946; mem. U.S. House of Reps. 1946-52; U.S. Rep. in Congress 1947-53; mem. House Cttees. on Exec. Expenditures, Admin., and Judiciary, Gov. of Delaware 1961-73; U.S. Senator for Delaware 1961-73; Del. of counsel law firm Bayard, Brill and Handelsman, Wilmington 1973-; Dir. Rollins Int. Inc.; Chair. Nat. Govs'. Conf. 1959; Pres. Council State Govts. 1960; mem. U.S. Nat. Comm. for UNESCO 1964-66, White House Conf. on Int. Co-operation 1965, Joint Comm. on Org. Congress 1965-66, Nat. Comm. Fire Prevention and Control 1971-72, Board Dirs. Blood Bank of Del. Inc., apptd. mem. Joint Cttee. on Econ. Report, 82nd Congress; served to rank of Col. in U.S. army 1941-46; mem. American Bar Assen., Delaware Bar Assen. American Judicature Soc., American Legion; Croix de guerre [illegible] Palmes, Legion of Merit, Bronze Star with Cluster, European Theatre Operations ribbon with 5 campaign stars; Republican. *Address:* 901 Market Street, Wilmington, Delaware 19801 (Office); 1203 Grinnell Road, Wilmington, Delaware 19803 U.S.A. (Home).

BOGGS, Jean Sutherland, O.C., PH.D.; Canadian professor of art; b. 11 June 1922, Negritos, Peru; d. of Oliver Desmond and Humia Marguerite (Sutherland) Boggs; ed. Trinity Coll., Univ. of Toronto, and Radcliffe Coll., Harvard Univ.; Asst. Prof. of Art, Skidmore Coll. 1948-49, Mount Holyoke Coll. 1949-52; Assoc. Prof. of Art, Univ. of Calif. at Riverside 1954-62; Curator, The Art Gallery of Toronto 1962-64; Steinberg Prof. of History of Art, Washington Univ. 1964-66; Dir. Nat. Gallery of Canada 1966-76; later Prof. of Art History, Harvard Univ.; mem. Canadian Art Museum Dirs. Org., Assen. of Art Museum Dirs.; Fellow, Royal Soc. of Canada; Trustee American Assoc. of Museums, American Fed. of the Arts; Hon. LL.D. (Toronto) 1967, (Laurentian Univ., Sudbury) 1967, (McMaster Univ., Ont.), Hon. D.U.C. (Univ. of Calgary) 1967, Hon. LL.D. (Dalhousie Univ.) 1971, Hon. D.Litt. (Mount Holyoke, Mass.) 1971, LL.D. (Univ. of Victoria B.C.) 1972, (Smith Coll., Mass.) 1975. *Publications:* Portraits by Degas 1962; Exhbn. Catalogues: Picasso the Man (The Art Gallery of Toronto) 1964, Drawings by Degas (City Art Museum of St. Louis) 1967, The National Gallery of Canada 1971, Picasso 1881-1973 1973. *Address:* 73 Mount Vernon Road, Apartment 7, Boston, Mass., U.S.A.

BOGIANCKINO, Massimo, PH.D.; Italian opera director; b. 10 Nov. 1922, Rome; s. of Edoardo T. Bogianckino and Fiorangela Liberi; m. Judith Matthias 1950; ed. Conservatory of Music and Acad. Santa Cecilia, Rome and Univ. of Rome; fmr. musicologist and concert pianist; Dir. Enciclopedia dello Spettacolo 1957-62; Dir. Accademia Filarmonica, Rome 1960-63; Dir. Teatro dell' Opera, Rome 1963-68; Artistic Dir. Festival of Two Worlds, Spoleto 1968-71; Dir. of Concert Programs, Accad. Santa Cecilia, Rome 1970-71; Artistic Dir. La Scala, Milan 1971-74; Gen. Artistic Consultant Teatro Comunale. Florence 1974-; Grosses Bundesverdienstkreuz (Fed. Repub. of Germany). *Publications:* L'arte clavicembalistica di D. Scarlatti 1956 (English version 1968), Aspetti del teatro musicale in Italia e in Francia nell' età Barocca 1968. *Address:* Teatro Comunale Florence, Italy. *Telephone:* 262842.

BOGNÁR, József; Hungarian politician and scholar; b. 5 Feb. 1917, Szombathely; s. of Gyula Bognf and Erzsébet Kutrovits; m. Ida Kutzián 1946; ed. in Budapest; studied literature and philosophy; taught in [illegible] grammar school; joined the "March Front" Resistance Movement during 1939-45 war; joined Smallholders Party, organizer and Sec. 1945; mem. Parl. 1945-; Minister of Information 1946; Mayor of Budapest 1947-48; Minister of Internal Trade 1948-53, of Internal and Foreign Trade 1953-54, of External Trade 1954-56, Prof. of Econs., Karl Marx Univ. of Econ. Science, Budapest 1957-; Chair. Hungarian World Alliance 1959-; Pres. Inst. for Cultural Relations 1961-69; Econ. Adviser to Ghanaian Govt. 1962; Vice-Pres. Presidium Patriotic People's Front 1965-; Chair. Cttee for Planning and Budget Hungarian Parl. 1966-; corresp. mem. Hungarian Acad. of Sciences 1966-73; Dir. Inst. for World Econs., Hungarian Acad. of Sciences 1966-; Pres. Hungarian Scientific Council for World Economy 1969-; full mem. Hungarian Acad. of Sciences 1973-; Vice-Pres. Hungarian Econ. Soc.; mem. Scientific Cttee. Istituto di Studi [illegible] Documentazione sull'Est Europeo, Trieste; Editor-in-Chief Studies on Developing Countries, Trends in World Economy; mem. Editorial Bd. The New Hungarian Quarterly, Mondes [illegible] developpement, Paris, Hon.-Editorial Advisory Bd. World Dev., Oxford; Hungarian State Prize 1970. *Publications include:* Planned Economy in Hungary: Achievements and Problems 1959, Kereslet és Keresletkutatás [illegible] Szocializmusban (Demand and Demand Analysis in Socialism) 1961, Economic Growth in the Developing Countries 1966, Economic Policy and Planning in Developing Countries 1968, Les nouveaux mécanismes

de l'économie socialiste en Hongrie 1969, Világgazdasági Korszakváltás (Beginning of a New Era in the World Economy) 1976, and numerous articles. *Leisure interests:* reading memoirs and historical novels. *Address:* Scientific Council for World Economy, Budapest XII, Kálló esperes u. 15; Budapest II, Érmelléki-utca 1, Hungary. *Telephone:* 664-572; 155-206.

BOGOLUBOV, Nikolay Nikolayevich; Soviet mathematician; b. 21 Aug. 1909, Gorky; Prof. Kiev and Moscow Univs. 1936-; mem. Ukrainian S.S.R. Acad. of Sciences 1948-; U.S.S.R. Acad. of Sciences 1953-, Academician-Sec. Dept. of Math. 1963-, mem. Presidium; Dir. Joint Inst. for Nuclear Research, Dubna 1965-; Deputy to U.S.S.R. Supreme Soviet 1966-; Foreign mem. Polish 1962-, German Dem. Repub. 1966-, Heidelberg 1968-, Bulgarian 1970- Acads. of Sciences, American Acad. of Sciences and Arts, Boston 1969-; Foreign Assoc. Nat. Acad. of Sciences of U.S.A. 1969-; State Prize 1947, 1953, Lenin Prize 1958, Heineman Prize 1966, Hero of Socialist Labour 1969; Helmholz Gold Medal 1969, Max Planck Gold Medal 1973, Franklin Gold Medal 1974, Order of Lenin (five). *Publications:* Introduction to Non-linear Mechanics 1937, On some Statistical Methods in Mathematical Physics 1945, Problems of a Dynamical Theory in Statistical Physics 1946, Problems of Statistical Mechanics of Quantum Systems 1949, Asymptotical Methods in the Theory of Non-linear Oscillations 1958, Problems of the Theory of Dispersion Relations 1958, A new Method in the Theory of Superconductivitiy 1958, Introduction to Axiomatic Quantum Field Theory 1969, Introduction to the Theory of Quantized Fields 1976. *Address:* Joint Institute for Nuclear Research, Dubna, P.O. Box 79, Moscow, U.S.S.R.

BOGOLYUBOV, Mikhail Nikolayevich; Soviet philologist; b. 24 Jan. 1918, Kiev; ed. Leningrad Univ.; Service in the Army 1941-45; Lecturer and Researcher Leningrad Univ. 1944-60, Prof. 1959-, Dean Oriental Dept. 60-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-. *Address:* Leningrad Univ., Oriental Faculty, II Universitetskaya Naberezhnaya, Leningrad, U.S.S.R.

BOGOMOLOV, Aleksey Fedorovich; Soviet physicist; b. 2 June 1913, Sitskoe Village, Smolensk Region; ed. Moscow Power Inst. Postgraduate, Research Assoc. Moscow Power Inst. 1937-41; Army Service 1941-45; mem. CPSU 1944; Asst. Prof. Head of Chair, Moscow Power Inst. 1945-; Doctor of Tech. Sciences, Prof. 1958-; Merited Scientist of R.S.F.S.R.; Corresp. mem. U.S.S.R. Acad. of Sciences 1966; Hero of Socialist Labour 1957; Order of Lenin (three times); Hammer and Sickle Gold Medal. *Publications:* Works on radiophysics and radio engineering. *Address:* Moscow Power Institute, 14 Krasnokazarmennaya ulitsa, Moscow, U.S.S.R.

BOGORAD, Lawrence, PH.D.; American biologist; b. 29 Aug. 1921, Tashkent, U.S.S.R.; s. of Boris and Florence (Bernard) Bogorad; m. Rosalyn G. Sagen 1943; one s. one d.; ed. Univ. of Chicago. Instructor, Dept. of Botany, Univ. of Chicago 1948-51, Asst. Prof. 1953-57, Assoc. Prof. 1957-61, Prof. 1961-67; Visiting Investigator, Rockefeller Inst. 1951-53; Prof. Dept. of Biology, Harvard Univ. 1967-, Chair. 1974-76; Dir. Maria Moors Cabot Foundation, Harvard Univ. 1976-; mem. Nat. Acad. of Sciences, Chair. Botany Section 1974-77; Foreign mem. Royal Danish Acad. of Sciences and Letters; Fellow, American Acad. of Arts and Sciences; Pres. American Soc. of Plant Physiologists 1968; Fulbright Fellowship 1960 and other academic awards. *Publications:* various papers in scientific journals. *Address:* Harvard University, The Biological Laboratories, 16 Divinity Avenue, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-4292.

BOGUSH, Lev Konstantinovich; Soviet surgeon; b. 3 March 1905, Moscow; s. of Konstantin Fedorovich and Antonina Stepanovna Bogush; m. Tamara Vasiljevna Bogush; two s. one d.; ed. Nizhni Novgorod Univ. Head of Dept. at hospital, Gorky Region 1929-40; Master of Medicine 1937, Doctor 1943; Army Surgeon 1940-46; Senior Research Assoc., Inst. of Tuberculosis 1946-51; Head of Dept., Cen. Inst. of Tuberculosis 1956-; Prof. Cen. Advanced Training Inst. 1951-; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1957, mem. 1963; mem. Board U.S.S.R. and Moscow Soc. of Phthisiatrists; Order of Red Banner of Labour, Red Star, Patriotic War, Lenin Prize 1961, State Prize 1974, Order of Lenin 1975. *Publications:* Over 250 works on surgery of pulmonary tuberculosis. *Leisure interest:* hunting. *Address:* Central Institute of Tuberculosis, Yauza Railway Station, Moscow, U.S.S.R.

BOHAN, Marc; French couturier; b. 22 Aug. 1926; s. of Alfred Bohan; ed. Lycée Lakanal, Sceaux. Asst. with Piguet 1945, later with Molyneux and Patou; Dior organization, London 1958, later Paris; Artistic Dir. Soc. Christian Dior 1960-. *Address:* 30 avenue Montaigne, 75008 Paris, France (Office).

BOHEMAN, Erik; Swedish diplomatist, politician and business executive; b. 19 Jan. 1895, Stockholm; s. of Carl and Ellen (née Abramson) Boheman; m. Margaret Mattsson 1932; two s. two d.; ed. Stockholm High School and Univ. of Stockholm. Army Service 1915-18, Foreign Service 1918-60, served Paris, London, Foreign Office, Turkey, Bulgaria, Greece, Poland and Romania 1918-37; Sec.-Gen., Foreign Office 1938-45; Amb. to France 1945-47, to U.K. 1947-48, to U.S.A. 1948-58; Senator for City of Gothenburg 1959-70; Vice-Chair. Parl. Foreign Relations Cttee. and Chief Rep. Opposition 1959-, Speaker of First Chamber of Parl. 1965-70; Chair. Board AB Svenska Järnvägsverkstäderna, Robert Bosch AB, Svenska Tändsticks AB 1973-76; fmr. Vice-Chair. Board L. M. Ericsson Telephone Co., SAAB-Scania AB, AB Papyrus, Nymoilla Paper Mill Co.; mem. Board Holmens Bruks and Fabrics AB, Scandinavian Airlines System (SAS), Stockholms Enskilda Bank 1958-70; Hon. LL.D. (Augustana, Gustav Adolphus, Tufts, Uppsala Colls.); Order of the Seraphim, Grand Cross Order of Vasa, Grand Cross Order of Dannebrog, Grand Cross Finnish White Rose, Grand Officer Légion d'honneur, Hon. K.B.E. (U.K.) and numerous other foreign decorations. *Publications:* På Vakt (memoirs—2 vols.) 1963, 1974. *Leisure interests:* travelling, golf and farming. *Address:* Svenska Tändsticks Aktibolaget, v. Trädgardsgatan 15, Box 16100, 103 22 Stockholm 16 (Office); Anneberg, Graenna, Sweden (Home).

BÖHM, Karl, D.IUR.; Austrian musician; b. 28 Aug. 1894; ed. Graz Classical Secondary School, Karl-Franzens Univ., Graz, and under Eusebius Mandyczewski, Vienna. Conductor, Graz City Theatre 1917-21; at Munich State Opera 1921-27; Gen. Music Dir., Darmstadt 1927-31; at Hamburg 1931-33; Dir. Dresden State Opera 1934-42; Dir. Vienna State Opera 1943-45, 1954-56; Conductor, Vienna Philharmonic Orchestra 1933-, Berlin Philharmonic Orchestra, New York Philharmonic Orchestra etc.; Guest Conductor Teatro San-Carlo, Naples, Teatro alla Scala, Milan, Teatro Colón, Buenos Aires, Metropolitan Opera, New York, etc.; Conductor at Salzburg Festival, Bayreuth Festival, etc.; Hon. mem. Mozarteum, Salzburg, Music Acad., Graz, Music Soc. of Steiermark, Soc. for Music Theatre, Vienna, Concerthouse Soc., Vienna, Cultural Circle, Vienna, German Opera, Berlin, Vienna Philharmonic Orchestra; Hon. Senator Karl-Franzens Univ., Graz; Hon. Ring of Vienna, Graz, Bayreuth, Steiermark, Vienna Philharmonic Orchestra; Bruckner-Ring of Vienna Symphonic Orchestra; Schalk Medal, Vienna Philharmonic Orchestra, Schmidt Medal, Soc. of Friends of Music, Vienna, Mozart Medal, Mozarteum, Salzburg and Mozart Soc., Prague, Brahms Medal, Hamburg, Great Badge of Honour in Silver, Great Distinguished Service Cross in Gold with Star, etc.; Hon. Citizen of Salzburg, Hon. Prof., Gen. Music Dir. of Austria, Hon. Conductor of Vienna Philharmonic Orchestra; Music Prize of Steiermark, Prize of Art, Berlin, and other awards. *Address:* 1190 Vienna, Himmelstrasse 41, Austria.

BÖHM, Siegfried; German economist and politician; b. 20 Aug. 1928, Plauen. Mem. Cen. Cttee. Sozialistische Einheitspartei Deutschlands (SED); employed in Cen. Cttee., SED 1962-66, Head of Planning and Finance Section 1966-; Minister of Finance, G.D.R. 1966-; Orden Banner der Arbeit, Vaterländischer Verdienstorden in Silber. *Address:* Ministerrat, Berlin, German Democratic Republic.

BOHMAN, (Bo) Gösta, B.L.; Swedish politician; b. 15 Jan. 1911, Stockholm; s. of Conrad Bohman and Gerta Gabrielson; m. Gunnel Mossberg 1939; one s. four d.; ed. Univ. of Stockholm 1936. Officer in Reserve 1932-; Asst. Dir. Stockholm Builder's Assen. 1939-42; Sec. Stockholm Chamber of Commerce 1942-48, Deputy Man. Dir. 1948-70; mem. Riksdag (Parl.) 1958-; Pres. Moderata Samlingspartiet (Conservative Party) 1970-; Minister of Econ. 1976-78; Kt. Commdr.'s Cross, Royal Order of Vasa, Kt. Commdr's Cross, Royal Order of Northern Star, Stella della Solidarità (Italy). *Publication:* Tankar om mitt Sverige (Reflections on my Sweden) 1974. *Leisure interests:* skiing, skating, hunting, fishing. *Address:* Villagatan 13B, 114 32 Stockholm, Sweden (Home).

BÖHME, Hans-Joachim; German politician and history teacher; b. 1931, Leipzig. First Deputy Sec. Sozialistische Einheitspartei Deutschlands (SED) 1955-59, First Sec. SED party org. Karl Marx Univ., Leipzig 1959-66, and mem. Cen. Cttee. SED 1971-; Head of Student Section, Moscow Embassy 1966-68; State Sec. and First Deputy Minister 1968-70; Minister of Higher and Tech. Educ. Sept. 1970-; Vaterländischer Verdienstorden in Bronze and other awards. *Address:* Ministerrat, Berlin, German Democratic Republic.

BOHR, Aage Niels, DR.PHIL., D.SC.; Danish physicst; b. 19 June 1922, Copenhagen; s. of Prof. Niels Bohr and Margrethe Nørlund; m. Marietta Bettina (née Soffer) (died 1978); two s. one d.; ed. Univ. of Copenhagen. Assoc. D.S.I.R., London 1943-45; research asst., Inst. of Theoretical Physics, Copenhagen 1946; Prof. of Physics, Univ. of Copenhagen 1956-; Dir. Niels Bohr Inst. 1962-70, Nordita 1975-; mem. Danish, Norwegian, Pontifical, Swedish, Yugo-

slav Acads. of Science, Nat. Acad. of Sciences, U.S.A., American Acad. of Arts and Sciences, American Philosophical Soc.; Hon. Ph.D. (Oslo, Heidelberg, Trondheim, Manchester, Uppsala); Dannie Heineman Prize 1960, Pius XI Medal 1963, Atoms for Peace Award 1969, Ørsted Medal 1970, Rutherford Medal 1972, John Price Wetherill Medal 1974, Nobel Prize for Physics 1975. *Publications:* Rotational States of Atomic Nuclei 1954, Nuclear Structure Vol. I 1969, Vol. II 1975 (with Ben R. Mottelson). *Address:* Granhøjen 10, Hellerup, Copenhagen, Denmark. *Telephone:* 01-650346.

BOICHENKO, Viktor Kuzmich; Soviet government official; b. 21 July 1925; ed. Foreign Trade Inst. Red Army 1942-46; Soviet Trade Mission, Peking 1954-55; Deputy Consul, U.S.S.R. Gen. Consulate, Shanghai 1955-57; First Sec. Soviet Embassy, Peking 1957-59; Deputy Chair. Intourist (U.S.S.R. Company for Foreign Travel) 1959-62, First Deputy Chair. 1962-64, Chair. 1964-69, Pres. 1970-; Vice-Pres. Int. Fed. of Nat. Tourist Asscns. 1964-66; mem. Joint Temp. Man. Cttee., Universal Fed. of Travel Agents' Asscns. (UFTAA) 1966-67; Hero of Soviet Union, Order of Lenin, Order of Red Banner of Labour, Order of Red Star, Gold Star Medal, etc. *Address:* Intourist, 16 Prospekt Marxa, Moscow, K9, U.S.S.R.

BOISDEFFRE (Néraud le Mouton de), Pierre Jules Marie Raoul; French writer, diplomatist and broadcasting official; b. 11 July 1926, Paris; s. of Gen. de Boisdeffre; m. Béatrice Wiedemann-Goiran 1957; three s.; ed. Lycée Condorcet, Collège Stanislas, Ecole Libre des Sciences Politiques, Ecole Nationale d'Administration and Harvard Univ. Civil Servant, Ministry of Nat. Educ. 1950-55; Deputy Dir. of Press Affairs, Ministry of Foreign Affairs 1958-63; Dir. of Sound Broadcasting, Office de Radiodiffusion et Télévision Française (O.R.T.F.) 1963-68; Cultural Counsellor, French Embassy, London 1968-71, Brussels 1971-; Chevalier de la Légion d'honneur, Officier de l'Ordre National du Mérite, Commdr. des Arts at des Lettres, Chevalier des Palmes académiques, Officier de l'Etoile Polaire, Chevalier de l'Ordre de la Couronne, Commdr. de l'Ordre national du Cèdre, Commdr. de l'Ordre du Christ; Grand Prix de la Critique (for Métamorphose de la littérature) 1950. *Publications:* Métamorphose de la littérature (Vol. I de Barrès à Malraux, Vol. II de Proust à Sartre) 1950, Où va le Roman? 1962, Les écrivains français d'aujourd'hui 1963, Une histoire vivante de la littérature d'aujourd'hui (1939-64) 1964, Une anthologie vivante de la littérature d'aujourd'hui I 1965, II 1966, La cafetière est sur la table 1967, Lettre ouverte aux hommes de gauche 1969; critical portraits: Barrès parmi nous 1952, André Malraux 1952, Kafka (with R. M. Albérès) 1960, Barrès 1962, Giono 1965, Vie d'André Gide (Vol. I: Gide avant la fondation de la N.R.F.) 1970, Les écrivains de la nuit, les poètes français d'aujourd'hui 1973. *Address:* 1 Square Marguerite, 1040 Brussels, Belgium; 5 cité Vaneau, Paris, France.

BOISSIEU DEAN DE LUIGNÉ, Gen. Alain Henri Paul Marie-Joseph de; French army officer; b. 5 July 1914, Chartres; s. of Henri de Boissieu Dean de Luigné and Marguérite Froger de Mauny; m. Elizabeth de Gaulle, d. of Gen. Charles de Gaulle, 1946; one d.; ed. Saint-Cyr Mil. Acad. Cavalry Second Lieut. 1938, First Lieut, 1940; prisoner of war, escaped, later detained in U.S.S.R.; joined Free French Forces 1941; Capt. 1942; Staff, High Commr in Indian Ocean 1944-45; Maj. 1945, Lieut.-Col. 1953; Commdg. Officer 4th Regiment of Chasseurs, Algeria 1956-58; Col. 1958; Chief Mil. Staff, High Commr. in Algeria 1958; Chief of Staff Armoured Directorate 1959; Commdg. Officer 2nd Armoured Brigade 1962; Brig.-Gen. 1964; Commdg. Gen. Saint-Cyr Mil. Acad. and Ecole Mil. Inter-Armes de Coëtquidan 1964-67; Commdg. Gen. 7th Div. 1967; Maj.-Gen. 1968; Inspector of Armour 1969; Lieut.-Gen. 1970; mem. Army Council 1971; Gen., Chief of Staff of French Army 1971-75; Grand Chancellor, Légion d'honneur 1975-, Grand Croix Légion d'honneur, Compagnon de la libération, Grand Croix de l'Ordre national du Mérite, Croix de guerre, Croix de la Valeur militaire, Knight of Malta; Hon. K.B.E., and other decorations. *Leisure interests:* riding, hunting. *Address:* Grande Chancellerie, 1 rue de Solférino, 75007 Paris, France.

BOITSOV, Vasiliy Vasiliyevich; Soviet technologist and politician; b. 1908; ed. Moscow Higher Technical School; engineering posts 1937-46; Dir. of Scientific Research of tech. inst. 1947-63; Chair. State Cttee. of Standards, Measures and Measuring Instruments 1963-70, State Cttee. of Standards, U.S.S.R. Council of Ministers 1970-; Pres. Int. Org. for Standardization (ISO) 1977-; mem. CPSU; Deputy to Supreme Soviet of R.S.F.S.R. *Address:* State Committee of Standards, 9 Leninsky Prospekt, Moscow, U.S.S.R.

BOJART ORTEGA, Rafael; Argentine university professor; b. 12 April 1920, Buenos Aires; s. of Rafael Bojart Ceballos and Hemilce Ortega; m. Haydée Albistur Pando 1944; two s.; ed. Univs. de Buenos Aires, El Salvador, Barcelona and Columbia Univ., New York. Founder Academia de Estudios Históricos Bartolomé Mitre 1958, Univ. de Morón 1960, Instituto Enrique Larreta 1964, Academia Internacional de Historia 1965, Instituto Americano de Futurología 1975; Pres. Academia de Estudios Históricos Bartolomé Mitre, Academia Internacional de la Historia; Rector, Univ. de Morón; mem. Real Academia Hispano-americana de Cádiz, Academia Argentina de Diplomacia, Academia de Estudios Parlamentarios y Legislativos Internacionales, Instituto de Cultura Americana de Madrid, Instituto Argentino Hispánico, Asociación Internacional de Derecho, Academia de Letras (Uruguay), Club des intellectuels français, Univ. Int. Moctezuma, World Constituent Ass., U.S.A., Médaille Etoile Civique, Paris. *Publications:* Introducción a la filosofía, Filosofía de la Historia, La Poesía Epica Medieval, La Estética Contemporánea, La Esencia de la Poesía, El Motivo de la Angustia en el Existencialismo, La Poesía de Carlos Obligado, La Inteligencia en el Gobierno de los Pueblos, Ricardo Rojas y el Futuro de América, El Hispanismo en Larreta, La Poesía de César Rosales, Como Hacer un Best Seller, Qué es la Futurologia, Borges Escritor, La Fuerza del Occidente; novels La Música de la Montaña, El Hombre Neuvo, Una Aventura en el Año 2000; plays: Polichinela, Los Hijos que no Nacieron. *Address:* San Martin 933, 7°, Departamento 51, Buenos Aires, Argentina. *Telephone:* TE-31-1334.

BOK, Bart Jan, PH.D.; American (naturalized 1938) emeritus professor of astronomy; b. 28 April 1906, Hoorn, Holland; s. of Jan Bok and Gesina Annetta Van Der Lee; m. Priscilla Fairfield 1929 (died 1975); two c.; ed. Univs. of Leiden and Groningen. R. W. Willson Fellow in Astronomy, Harvard Univ. 1929-33, Asst. Prof. of Astronomy 1933-39, Assoc. Prof. of Astronomy 1939-46, Assoc. Dir. Harvard Observatory 1946-52, Robert Wheeler Willson Prof. of Astronomy, Harvard Univ. 1947-57; Prof. of Astronomy, Australian Nat. Univ. 1957-66; Dir. Mount Stromlo Observatory, Canberra, Australia 1957-66; Prof. of Astronomy, Univ. of Arizona 1966-74; Head, Dept. of Astronomy, and Dir. Steward Observatory 1966-70; Vice-Pres. Int. Astronomical Union, Nat. Acad. of Sciences 1970-76; mem. American Astronomical Soc. (Pres. 1972-74), American Assen. for Advancement of Science, American Acad. of Arts and Sciences, Royal Soc. of Sciences, Uppsala; Hon. mem. Royal Astronomical Soc. of Canada, Royal Astronomical Soc. of N.Z., Astronomical Soc. of Australia; Corresp. mem. Royal Netherlands Acad. of Sciences, Australian Acad. of Science; Fellow, Royal Astronomical Soc., London, Inst. of Physics, Australia; Hon. D.Sc. (Arizona) 1978; Orange-Nassau Medal, Netherlands, Catherine Wolfe-Bruce Medal of the Astronomical Soc. of the Pacific. *Publications:* The Distribution of Stars in Space 1937, The Milky Way (with Mrs. Bok) 1941, Basic Marine Navigation (with F. W. Wright) 1944, The Astronomer's Universe 1958; 200 articles; principal field is Milky Way research, with long-standing emphasis on S. Milky Way; also cosmic evolution, star clouds of Magellan, radio astronomy, dark nebulae and globules. *Address:* Steward Observatory, University of Arizona, Tucson, Ariz. 85721; 200 Sierra Vista Drive, Tucson, Ariz. 85719, U.S.A. (Home). *Telephone:* 602-795-0061, 602-626-2589.

BOK, Derek Curtis, M.A., LL.B.; American university administrator; b. 22 March 1930, Bryn Mawr, Pa.; s. of late Curtis Bok and Margaret Plummer (now Mrs. W. S. Kiskadden); m. Sissela Ann Myrdal (d. of Karl Gunnar and Alva Myrdal *q.v.*) 1955; one s. two d.; ed. Univs. of Stanford, Harvard, George Washington and Inst. of Political Science, Paris Univ.; served U.S. Army 1956-58; Asst. Prof. of Law, Harvard Univ. 1958, Prof. 1961-; Dean, Harvard Law School 1968-71; Pres. Harvard Univ. July 1971-. *Publications include:* The First Three Years of the Schuman Plan, Cases and Materials on Labor Law (with Archibald Cox), Labor and the American Community (with John Dunlop). *Leisure interests:* gardening, tennis, swimming. *Address:* Office of President, Harvard University, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-1502.

BOKASSA, Marshal Jean Bédel; Central African Empire (fmrly. Republic) army officer and politician; b. 22 Feb. 1921, Bobangui, Lobay; s. of the late Mindogon Mgboundoulou and Marie Yokowo; m. Catherine Dengueade; ed. Ecole Sainte Jeanne-d'Arc, M'Baiki, Ecole Missionnaire, Bangui, and Ecole Missionnaire, Brazzaville; joined French Army 1939, Capt. 1961; organized Central African Empire (Central African Republic until 1976) Army, C.-in-C. 1963-; took power in mil. coup Dec. 1965; Pres. Jan. 1966- (Pres. for Life 1972-), Prime Minister 1966-75; Minister of Defence 1966-76, of Justice 1966-70, of Information 1970-74, of Agric. and Stockbreeding 1970-74, of Public Health and Population 1971-76, also Minister of Civil and Mil. Aviation and of Civil Service 1973-76, of

Land, River and Air Transport 1973-76, of Trade and Industry 1973-74, April-Sept. 1976, of Mines 1973-76, of Posts and Telecommunications and Information April-Sept. 1976; proclaimed Emperor Dec. 1976, self-crowned Dec. 1977; Leader Mouvement d'évolution sociale de l'Afrique noire (MESAN); Pres. Union douanière et économique de l'Afrique central (UDEAC) 1979; Pres. Council of Cen. African Revolution 1976-; Légion d'honneur, Croix de guerre; Marshal of CAR 1974. *Address:* Office of the Emperor, Bangui, Central African Empire.

BOKHORST, Matthys, LITT.D., D.PHIL.; South African art historian; b. 28 Aug. 1900, Rotterdam, Netherlands; s. of P. F. Bokhorst and J. C. de Kok; m. P. W. M. Groenhart 1946; two s.; ed. Rotterdam, Leyden Univ. and Switzerland. Prof. of Netherlands Cultural History and Dir. Neths. Inst. Pretoria Univ. 1929-51; Editor Nederlandse Post 1951-; Pres. South African Assen. of Arts 1951-58; Chair. Govt. Art Advisory Comm. 1952-68; Dir. Michaelis Art Gallery 1956-64; Dir. South African National Gallery 1962-73; mem. Exec. Council of South African Museums Assen. 1958-, Pres. 1971-73; Prof. of Cultural History of Western Europe, Univ. of Cape Town 1973-75; Vice-Chair. Cape Tercentenary Foundation 1976; mem. Nat. Arts Comm. 1968-; Medal of Honour, S.A. Akademie vir Wetenskap en Kuns 1970; Officer Order of Orange-Nassau 1973. *Publications:* Nederlands-Zwitserse Betrekkingen voor en na 1700 1930, Kultuur van een Waterland 1937, Handvest der Vryheid 1944, Die Kuns van'n Kwarteeu 1954, Art at the Cape 1964, The S.A. National Gallery 1965, François Levaillant (co-author) 1973. *Leisure interest:* fine art. *Address:* "Het Trappenhuis", Talma Road, Muizenberg, 7945 Cape Town, South Africa. *Telephone:* 85345.

BOLAND, Frederick Henry, B.A., LL.B.; Irish former diplomatist and businessman; b. 1904, Dublin; s. of Henry Patrick Boland and Charlotte (née Nolan); m. Frances Josephine Kelly; one s. four d.; ed. Clongowes Wood Coll., Trinity Coll., Dublin, King's Inn, Dublin, Harvard and Chicago Univs. Third Sec. Irish Foreign Service 1929; First Sec. Paris 1932; Head of L.N. Section, Dublin 1934; Head of Div., Dept. of Industry and Commerce 1936; Asst. Sec. Dept. of External Affairs 1938, Perm. Sec. 1946; Amb. to Great Britain 1950-56; Rep. to UN 1956-64; Chancellor, Dublin Univ. 1964-; Chair. IBM Ireland Ltd.; Dir. Investment Bank of Ireland 1964-, Arthur Guinness Son & Co. 1964-79, Irish Distillers Ltd., Insurance Corpn. of Ireland Ltd., Fitzwilton Ltd., Cement Ltd., Gresham Hotels Ltd.; Pres. 15th Session, UN Gen. Assembly; mem. Royal Irish Acad.; Hon. LL.D.; Knight Commdr. Order of St. Gregory (Holy See), Grand Cross, Order of North Star (Sweden). *Leisure interests:* reading, fly fishing, piano. *Address:* 60 Ailesbury Road, Dublin, Ireland. *Telephone:* 693599.

BOLAND, Kevin; Irish politician; b. 15 Oct. 1917, Dublin; s. of Gerald Boland and Annie Keating; m. Cecilia Finneran 1951; two d.; ed. St. Joseph's Christian Brothers' Schools, Marino, Dublin, O'Connell Schools, Dublin, and Univ. Coll., Dublin. Mem. Dublin Corpn., Grangegoram Mental Hospital Bd. and Dublin Fever Hospital Bd. 1955-57; mem. Parl. Dublin 1957-70; Minister for Defence 1957-61, for Social Welfare 1961-66, 1969-70, for Local Govt. 1966-70; Leader, Republican Unity Party (Aontacht Éireann) 1971-. *Address:* Red Gap, Rathcoole, Co. Dublin, Ireland.

BOLDIZSÁR, Iván; Hungarian writer and journalist; b. 30 Oct. 1912, Budapest; m. Josette Dubruel 1941; two s. one d.; ed. Budapest Univ. Early mem. of the progressive village research movement in Hungary; Editor-in-Chief of Information, Peace Conf. Del. 1946; Del. for UNESCO 1946; Sec. of State in Hungarian Ministry of Foreign Affairs 1947-51; Editor Magyar Nemzet 1951-55, Hetfoi Hirlap 1956, Tukor (Mirror) 1957-58, The New Hungarian Quarterly 1960-; Pres. Hungarian PEN Club 1964-; Dr. h.c. (Union Coll., Schenectady, N.Y.) 1971; Labour Order of Merit Golden Degree, State Prize, 1st Degree 1975. *Publications:* A nyugati kapu, Tiborc, A gazdag parasztok orszaga, Fortocksa Téli parbaj, Magyarorszagi Napló, A toll fegyverével, A veménység üzenete, Reggeltöl reggelig, Tiborc uj arca, Balatoni Kaland, Magyarorszag Utikönyv, Szuletésnap, Az éjszaka végén, Rokonok és idegenek, Zsiráffal Angliában (Doing England with a Giraffe 1969), Királyalma Tulélök (play), Az angyal lába, New York Percrol percre, A filozófus oroszlán, Halálaim, A Szárnyas ló, A félelem iskolája, A sétáló szobar, Szépecske haza. *Leisure interest:* grandchildren. *Address:* Balogh Adám-utca 29, 1026 Budapest II, Hungary. *Telephone:* Budapest 136-857.

BOLDUMAN, Mikhail Panteleimonovich; Soviet actor, b. 23 July 1898. Zhmerinka Drama Group, Ukraine 23; Kiev Russian Drama Theatre 1924-31; Moscow Korsh Theatre 1931-33; Moscow Art Theatre 1933-; also films; Order of Lenin, State Prize of the U.S.S.R. (twice), People's Actor of R.S.F.S.R. and other awards. *Principal roles:* Slaton Krechet, Gorbunov (Officer of the Fleet), Sintsov (Enemies), Vershinin (The Three Sisters). *Address:* Moscow Art Theatre, 3 Proyezd Khudozhestvennogo Teatra, Moscow, U.S.S.R.

BOLEN, David B., M.S., M.P.A.; American diplomatist; b. 23 Dec. 1923, Heflin, La.; m. Betty Grayden 1960; ed. Univ. of Colorado, Harvard Univ.; served U.S.A.F. 1943-46; joined foreign service 1950; Admin. Asst. and Consular and Reporting Officer, Monrovia, Liberia 1950-52; Econ. Asst., Karachi, Pakistan 1952-54; int. economist, Dept. of Commerce, Washington 1955-56, Dept. of State 1957-58; desk officer for Afghanistan 1958-59; Econ. Officer, Accra, Ghana 1960-62; Staff Asst. to Asst. Sec. of State for African Affairs, Washington 1962-64; officer-in-charge Nigerian affairs 1964-66; Nat. War Coll. 1966-67; econ. and commercial officer, Bonn, Fed. Repub. of Germany 1967-72; Counsellor for Econ. Affairs, Belgrade, Yugoslavia 1972-73; Amb. to Botswana, Lesotho and Swaziland 1973-76; Deputy Asst. Sec. of State for African Affairs 1976-77; Amb. to German Dem. Repub. July 1977-; mem. U.S. Olympic track and field team 1948. *Address:* American Embassy, Neustädtische Kirchstrasse 4-5, 108 Berlin-Mitte, German Democratic Republic.

BOLGER, William F.; American postal and government official; b. 13 March 1923, Waterbury, Conn.; s. of George and Catherine (Leary) Bolger; m. Marjorie Tilton 1949; two d.; ed. George Washington and Columbus Univs., Washington, D.C.; joined U.S. Postal Service 1941, various managerial posts 1955-, Regional Postmaster Gen. for North-East 1973-78, mem. Board of Govs. 1975-, Deputy Postmaster Gen. 1975-78, U.S. Postmaster Gen. March 1978-. *Leisure interests:* golf, swimming. *Address:* U.S. Postal Administration, Washington, D.C.; Alexandria, Va., U.S.A. (Home).

BOLIN, (Axel) Bertil; Swedish lawyer and international official; b. 8 Nov. 1923, Törnevalla; s. of A. G. and Gotty Bolin; m. Thea Burland 1971; one s. one d. (by previous marriage); ed. Univ. of Uppsala. Legal Adviser to Swedish Confed. of Trade Unions 1956-62, Dir. for Int. Affairs 1962; mem. Swedish Del. to UN Gen. Ass., mem. Industrial Devt. Board 1962-69; mem. ILO Gov. Body 1965-68, Asst. Dir.-Gen. 1968-74, Deputy Dir.-Gen. 1974-; mem. Int. Comm. of Jurists, Int. Assen. for Industrial Relations, Swedish Labour Law Assen., several Swedish Royal Comms. *Publications:* Swedish Labour Law, Holidays with Pay (in Swedish), Labour Market and Trade Unions in Developing Countries (in Swedish), Consumer Rights. *Leisure interests:* skiing, tennis, gardening. *Address:* International Labour Office, 4 Chemin des Morillons, 1218 Geneva (Office); 14 chemin de la Tourelle, 1209 Geneva, Switzerland (Home). *Telephone:* 98-10-88 (Geneva).

BOLING, Edward J., M.S., ED.D.; American university president; b. 19 Feb. 1922, Sevier County, Tenn.; s. of Sam R. and Nerissa (Clark) Boling; m. Carolyn Pierce 1950; three s.; ed. Univ. of Tennessee and George Peabody Coll.; with Union Carbide Corpn. of Oak Ridge, Tenn. 1951-54; State Budget Dir. 1954-58; Commr. of Finance and Admin. 1958-61; Vice-Pres. for Devt. and Admin., Univ. of Tenn. 1961-70, Pres. Univ. of Tenn. 1970-. *Leisure interest:* boating. *Address:* Suite 800, Andy Holt Tower, University of Tennessee, Knoxville, Tennessee 37916, U.S.A. *Telephone:* 615-974-2241 (Office); 615-588-1924 (Home).

BOLKIAH MU'IZUDDIN WADDAULAH, H.H. Sultan Hassanal, D.K., P.S.P.N.B., P.S.N.B., P.S.L.J., S.P.B.M. P.A.N.B.; Sultan of Brunei, b. 15 July 1946; s. of former Sultan Sir Muda Omar Ali Saifuddin, K.C.M.G. (*q.v.*); ed. privately, and Victoria Inst., Kuala Lumpur, Malaysia, and Royal Mil. Acad., Sandhurst. Appointed Crown Prince and Heir Apparent 1961; Ruler of State of Brunei. Oct. 1967-; Hon. Capt. Coldstream Guards 1968; Sovereign and Chief of Royal Orders instituted by Sultans of Brunei. *Address:* Istana Darul Hana, Brunei.

BÖLKOW, Ludwig, DIP.ENG.; German aviation executive; b. 30 June 1912, Schwerin; ed. Technische Hochschule, Berlin; engineer, Messerschmitt AG 1939-45; Founder Bölkow (IBB) engineering co., Stuttgart 1948; Founder Bölkow-Entwicklungen KG (later Bölkow G.m.b.H.) 1956; Shareholder and Pres. Messerschmitt-Bölkow-Blohm G.m.b.H., Ottobrunn 1977; Deputy Chair. of Supervisory Board, Deutsche Airbus G.m.b.H., Munich; mem., fmr. Chair., Board of Dirs. Panavia Aircraft G.m.b.H., Munich; mem. Admin. Board, Airbus-Industrie, Paris; mem. Board of Dirs., Deutsche Gesellschaft für Luft- und Raumfahrt e.V., Berlin; Pres. B.D.L.I. (Fed. German Aerospace Industries Assoc.); Vice-Pres. A.E.C.M.A.; Pres. de l'Assemblé des Membres, Euromissile; Dr. Ing. h.c. Technische Universität, Stuttgart. Bavarian Order of Merit, Ring of Honour, Soc. of German Engineers, Gold Diesel medal, Ludwig-Prandtl ring, Deutsche Gesellschaft für Luft- und Raumfahrt, Pionierkette der Windrose, Distinguished Service Cross, Fed.

Repub. of Germany Order of Merit, Werner-von-Siemens Ring of Honour. *Address:* Messerschmitt-Bölkow-Blohm G.m.b.H., 8012 Ottobrunn, Federal Republic of Germany.

BÖLL, Heinrich Theodor; German writer; b. 21 Dec. 1917; s. of Victor and Maria Hermanns Böll; m. Annemarie Cech 1942; three s. Pres. Int. PEN until 1974; Nobel Prize for Literature 1972. *Publications:* Der Zug war pünktlich 1949, Wanderer, kommst du nach Spa . . . 1950, Die schwarzen Schafe 1951, Wo warst du, Adam? 1951, Und sagte kein einziges Wort 1952, Nicht nur zur Weihnachtszeit 1952, Haus ohne Hüter 1954, Das Brot der frühen Jahre 1955, So ward Abend und Morgen 1954, Unberechenbare Gäste 1956, Im Tal der donnernden Hufe 1957, Irisches Tagebuch 1957, Die Spurlosen 1957, Dr. Murkes Gesammeltes Schweigen 1958, Billard um Halbzehn 1959, Erzählungen, Hörspiele, Aufsätze 1961, Ein Schluck Erde 1962, Ansichten eines Clowns 1963, Entfernung von der Truppe 1964, Als der Krieg ausbrach (stories) 1965, Frankfurter Vorlesungen 1966, Ende einer Dienstfahrt 1966, Aufsätze, Kritiken, Reden 1967, Hausfriedensbruch 1970, Aussatz 1970, Gruppenbild mit Dame 1971, Gedichte 1973, Die verlorene Ehre der Katharina Blum 1974, Romane und Erzählungen 1947-77 1978. *Address:* Hulchrathur Strasse 7, 5000 Cologne 1, Federal Republic of Germany.

BOLLE, Eivind; Norwegian fisherman and politician; b. 13 Oct. 1923; mem. Vestvågøy Municipal Council 1963-, Chair. 1972-; mem. Board Nordland County Fisherman's Assn. 1965-71, Nat. Exec. Norwegian Fishermen's Assn. 1965-73; mem. Board Norwegian Raw Fish Dealers' Assn. 1970-, Deputy Chair. 1972-; mem. Cen. Board, State Bank for Fisheries; mem. Storting (Parl.) for Nordland 1973-; Minister of Fisheries 1973-; Labour. *Address:* Ministry of Fisheries, Oslo Dep., Norway.

BOLLNOW, Otto Friedrich, DR. PHIL.; German philosopher; b. 14 March 1903, Stettin; s. of Otto and Frida Bollnow; m. Dr. Ortrud Bürger 1938; one s. two d.; ed. Univs. von Berlin, Greifswald and Göttingen. Teacher of Philosophy and Educ., Göttingen 1931-39; Prof. of Psychology and Educ., Giessen 1939-46; Prof. of Philosophy and Educ., Mainz 1946-53, Tübingen 1953-, Prof. Emer. 1970; Dr. h.c. *Publications:* Dilthey 1936, Das Wesen der Stimmungen 1941, Existenzphilosophie 1943, Einfache Sittlichkeit 1947, Rilke 1951, Die Pädogogik der deutschen Romantik 1952, Neue Geborgenheit: Das Problem einer Überwindung des Existenzialismus 1955, Die Lebensphilosophie 1958, Wesen und Wandel der Tugenden 1958, Existenzphilosophie und Pädogogik 1959, Mensch und Raum 1963, Die pädagogische Atmosphäre 1964, Französischer Existentialismus 1965, Sprache und Erziehung 1966, Philosophie der Erkenntnis Vol. I 1970, Vol. II 1975, Das Verhältnis zur Zeit 1972, Vom Geist des Übens 1978. *Address:* Waldeckstrasse 27, 74 Tübingen 1, Federal Republic of Germany. *Telephone:* 07071-4076.

BOLT, Robert Oxton, C.B.E.; British playwright; b. 15 Aug. 1924; s. of Ralph and Leah Bolt (née Binnion); m. 1st Celia Roberts 1950, 2nd Sarah Miles 1967 (divorced); two s. two d.; ed. Manchester Grammar School and Manchester Univ.; office boy, Insurance Office, Manchester 1941-42; Manchester Univ. 1943; R.A.F. and W. African Frontier Force 1943-46; Teacher, Bishopsteignton Village School 1950-51, Millfield School, Somerset 1951-58; freelance writer 1958-; Oscar for A Man for All Seasons (film) 1967. *Plays:* Flowering Cherry 1957, The Tiger and the Horse 1959, A Man for All Seasons 1961 (film 1967), Gentle Jack 1963, The Thwarting of Baron Bolligrew (for children) 1966, Brother and Sister 1967, Vivat! Vivat! Regina 1970, State of Revolution 1977; Filmscripts: Lawrence of Arabia 1962, Dr. Zhivago 1964, Ryan's Daughter 1970 (also Dir.), Lady Caroline Lamb 1972. *Address:* c/o Margaret Ramsay Ltd., 14A Goodwin's Court, St. Martin's Lane, London, W.C.2. England.

BOLTON, Sir George Lewis French, K.C.M.B.; British banker, b. 16 Oct. 1900, London, s. of William Lewis George and Beatrice Louise Bolton; m. May Howcroft 1928; one s. two d. Société Générale de Paris 1917; Helbert, Wagg & Co. Ltd. 1920; Bank of England to assist in man. of Exchange Equalisation Fund 1933; Tripartite Monetary Agreement 1936; Adviser to Bank of England 1941-48, Exec. Dir. 1948-57, Dir. 1957-68; Dir. Bank for Int. Settlements 1949-57; Exec. Dir. Int. Monetary Fund 1946-52, Alt. Gov. 1952-57; Chair. Bank of London and South America 1957-70; Chair. Commonwealth Devt. Finance Co. Ltd. 1968-, London United Investments Ltd. 1971-; Deputy Chair. Lonrho 1973-; fmr. Chair. Bank of London and Montreal Ltd.; Dir. Canadian Pacific Steamships Ltd., Canadian Pacific Oil & Gas of Canada Ltd. *Address:* 305 Frobisher House, Dolphin Square, London, SW1V 3LL, England. *Telephone:* 01-834 7278.

BOLZ, Lothar, DR. JUR.; German lawyer and politician; b. 3 Sept. 1903, Gleiwitz (now Gliwice, Poland); ed. Univs. of Munich, Kiel and Breslau (now Wrocław, Poland); held various legal positions 1926-30; law practice 1930-33; in exile in Danzig (now Gdansk, Poland) and U.S.S.R. 1933-46; Minister for Construction, German Dem. Repub. 1949-53, Deputy Chair. Council of Ministers 1950-67, Minister of Foreign Affairs 1953-65; Chair. Nat. Dem. Party of Germany 1948-72; Vaterländischer Verdienstorden in Gold, Orden Banner der Arbeit, Grosser Stern der Völkerfreundschaft and other awards. *Address:* Friedrichstrasse 65, Berlin, German Democratic Republic.

BOMANI, Paul Lazaro, M.A.; Tanzanian politician; b. 1 Jan. 1925, Musoma; s. of Rev. Lazaro Bomani; ed. Ikizu Secondary School; employee, Williamson Diamonds Ltd. 1945-47; Asst. Sec., later Sec. Mwanza African Traders' Co-operative Soc.; Organizer, Lake Province Growers' Assn. 1952; studied Co-operative Devt. at Loughborough Coll. 1953-54; mem. Legislative Council 1955; Man. Victoria Fed. of Co-operative Unions Ltd. 1955; Minister of Agric., Tanganyika 1960-62, of Finance 1962-64, Minister of Finance of Tanzania 1964-65, for Econ. Affairs and Devt. Planning 1965-67, of Commerce 1967-72, and of Industries 1970-72; Gov. of IBRD (World Bank) for Tanzania 1967-70; Amb. to U.S.A. 1972-. *Leisure interests:* soccer, swimming, fishing, music, reading. *Address:* Embassy of Tanzania, 2139 'R' Street, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* (202) 232-0501.

BOMBASSEI FRASCANI DE VETTOR, Giorgio; Italian diplomatist; b. 29 June 1910, Florence; s. of Alfredo Bombassei Frascani de Vettor and Margherita Tidone Peri; m. Eli Tramontani 1940; one s.; ed. Università degli Studi, Florence and Inst. of Political and Social Sciences "Cesare Alfieri", Florence. Italian Diplomatic Service 1933-, served Egypt, U.S.A., France, Ceylon, U.S.S.R., Switzerland, Brazil 1933-52; Deputy Dir. of Int. Co-operation, Ministry of Foreign Affairs 1952-56, Deputy Dir.-Gen. of Political Affairs 1956-57; Perm. Rep. of Italy to Council of Europe 1957-61; Amb. to Luxembourg 1961-67, to Netherlands 1965-67; Perm. mem. Italian Del. to Special Council of Ministers of ECSC 1961-67; Perm. Rep. of Italy to the European Communities 1967-76; Vice-Pres. EIB and Vice-Chair. Bd. Dirs. 1976-; Grand Cross Officer Order of Merit (Italy), Medal of Freedom (U.S.A.) and other decorations. *Leisure interests;* golf, bridge. *Address:* European Investment Bank, 2 Place de Metz, Grand Duchy of Luxembourg. *Telephone:* 43-50-11.

BONAMI, Charles Victor; French fmr. broadcasting official; b. 16 May 1908, Ceilhes; s. of Charles Bonami and Maria Galabrun; m. Fernande Alvernhe 1932; one s. one d. Posts, Telegraphs and Telecommunications Services 1926-34; Radiodiffusion Télévision Française 1935-, successively Asst. Head of Section, Head of Section, Asst. Dir., Head of Service, Head of Dept., Head of Dept. of Gen. Affairs and Public Relations, now retd.; founder RTF Information-Documentation 1947-64; Founder-mem. European Broadcasting Union (EBU) 1950-, Admin. 1950-64; mem. Admin. Council, Office de Co-opération Radiophonique (O.C.O.R.A.) 1962-64, retd. 1968; Officier, Légion d'honneur, Chevalier du Mérite postal. *Publications:* numerous. *Leisure interest:* research into local history. *Address:* 2 rue Henri Duchène, 75015 Paris, France. *Telephone:* 579-6806.

BOND, Christopher Samuel; American lawyer and politician; b. 6 March 1939, St. Louis; s. of Arthur Doerr and Elizabeth Green Bond; m. Carolyn Reid 1967; ed. Deerfield Acad., Mass., Woodrow Wilson School of Public and Int. Affairs, Princeton Univ., Univ. of Virginia. Clerk, Fifth Circuit, U.S. Court of Appeals 1963-64; with law firm, Covington and Burling, Washington, D.C. 1964-67; private practice; Asst. Attorney-Gen., Chief Counsel of Consumer Protection Div. 1969-70; State Auditor, Missouri 1970-72; Gov. of Missouri 1973-77; Chair. Republican Govs.' Assn. 1974-75, Midwestern Govs.' Conf. 1976; Exec. Cttee. Nat. Govs.' Conf. 1974-75; Pres. Great Plains Legal Foundation, Kansas City, Mo. 1977-; Hon. LL.D. (Westminster and William Jewell Colls., Mo.) 1973, Hon. D.Litt. (Drury Coll., Springfield, Mo.) 1976; U.S. Jaycees Ten Outstanding Young Men Award 1974; Republican. *Address:* 127 West 10th Street, Suite 1022, Kansas City, Mo. 64105; 14 S. Jefferson Road, Mexico, Mo. 65265, U.S.A. (Home).

BOND, Edward; British playwright; b. 18 July 1934, London; m. Elizabeth Pablé 1971. *Publications:* (plays); Saved 1965, Narrow Road to the Deep North 1968, Early Morning 1968, The Pope's Wedding 1971, Passion 1971, Black Mass 1971, Lear 1972, The Sea 1973, Bingo 1974, The Fool 1976, A-A-merica! (Grandma Faust and The Swing) 1976, Stone 1976, The Woman 1977, We Come to the River (libretto) 1977; winner, George Devine Award, John Whiting Award 1968; Hon. D.Lit. (Yale). *Address:* c/o Margaret Ramsay, 14A Goodwin's Court, St. Martin's Lane, London, WC2N 4LL, England. *Telephone:* 01-240 0691.

BOND, Julian; American civil rights leader; b. 14 Jan. 1940; s. of Horace Mann Bond and Julia Agnes (née Washington); m. Alice Louise Clopton 1961; three s. two d.; ed. Morehouse Coll.; co-founder, Cttee. on Appeal for Human Rights, Atlanta Univ. 1960, later Exec. Sec.; co-founder Student Non-violent Co-ordinating Cttee. 1960, Communications Dir. 1961-66; reporter, feature writer Atlanta Inquirer 1960-61, Man. Editor 1963; mem. Ga., House of Reps. 1966-75, excluded 1966 by House for criticizing U.S. involvement in Viet-Nam, exclusion overruled in Supreme Court; mem. Ga. Senate 1975-; mem. Board of Dirs. African-American Inst., Delta Ministry Project of Nat. Council of Churches, Robert F. Kennedy Memorial Fund, Martin Luther King Jr. Center for Social Change, Centre for Community Change, Southern Regional Council, New Democratic Coalition, Voter Educ. Project and other bodies; mem. Nat. Advisory Council of American Civil Liberties Union; Chair. Board, Southern Elections Fund; Pres. Southern Poverty Law Center; mem. Southern Correspondents Reporting Racial Equality Wars, Nat. Assen. for Advancement of Coloured People; hon. degrees from 17 Colls. and Univs. *Publications:* A Time to Speak, A Time to Act, poems and articles in books and periodicals. *Address:* 361 Westview Drive, S.W., Atlanta, Ga. 30310, U.S.A. (Office).

BOND, Richard C., M.B.A.; American business executive; ed. Swarthmore Coll. and Harvard Business School. Pres. Board of Trustees, John Wanamaker Philadelphia Inc.; Trustee, Penn Central Transportation Co. 1970; Dir. Philadelphia Saving Fund Soc., Insurance Co. of N. America, Kraftco Corpn., Rorer-Amchem Inc., Bell Telephone Co. of Pennsylvania, Lenox Inc., etc.; Dir. and Trustee of many civic and educational boards; Hon. LL.D. (St. Joseph's Coll., Swarthmore Coll.); numerous citations and awards. *Address:* 412 Caversham Road, Bryn Mawr, Pa., U.S.A.

BONDARCHUK, Sergey Fedorovich; Soviet film actor and director; b. 25 Sept. 1920, Byelozerka, Odessa Region; ed. All Union State Inst. of Cinematography; *Principal roles:* Othello, Shevchenko (Taras Shevchenko), Valko (The Young Guard), Dymov (The Grasshopper), Yershov (An Unfinished Tale), Ivan Franko (Ivan Franko), Matvei Krylov (The Soldiers Go On), Sokolov (Destiny of a Man), Korostylov (Seryozha), Pierre Bezukhov (War and Peace), Astrov (Uncle Vanya), Sergey Tutarinov (Gold Star Winner), Fyodor (It was Night in Rome), Martin Evens (The Silence of Doctor Evens), Ivan Nikolayevich (This High Mountain), Kurchatov (Choosing the Goal), Zvyagintsev (They Fought for the Motherland) Emelyan (Steppe). Films directed include Destiny of a Man, War and Peace 1962-67, Waterloo 1970, Uncle Vanya 1974, They Fought for the Motherland 1975, Steppe; Order of Lenin (twice), People's Artist of U.S.S.R., Order of Red Banner and other awards. *Address:* Gorky Street 9, 75, Moscow 9, U.S.S.R. *Telephone:* 229-27-95.

BONDAREV, Yuriy Vasiliyevich, Soviet author and state official; b. 1924, Orsk; ed. Gor'kiy Inst., Moscow 1951; writer 1949–; mem. CPSU 1944-; First Deputy Chair. of RSFSR Writers' Union; served Soviet Army 1941-45; Deputy Chair. to Supreme Soviet 1975-. *Publications include:* novels: On the Big River 1953, Young Comrades 1956, Fire for the Battalions 1957, Last Salute 1959, The Last Gulp 1968, Hot Snow 1970. *Address:* U.S.S.R. Union of Writers, Ulitsa Vorovskogo 52, Moscow, U.S.S.R.

BONDE, Peder, B.L.; Swedish business executive; b. 2 Sept. 1923, Stockholm; s. of Count Carl Bonde and Countess Ebba Bonde (née Wallenberg); m. Jacqueline Madeleine Fernande Rouchier 1957; two s. one d. Asst. Vice-Pres. Stockholms Enskilda Bank 1957, Vice-Pres. 1961, Exec. Vice-Pres. 1969; Man. Dir. and Deputy Chief Exec. Skandinaviska Enskilda Banken 1972-73, Special Rep., Zürich 1977; Exec. Vice-Pres. Saléninvest AB 1973-76; Chief Exec. Banque Scandinave en Suisse, Geneva 1978-. *Address:* c/o Banque Scandinave en Suisse, C.P. 901, 1211 Geneva 3 (Office); 10 rue Toepffer, 1206 Geneva, Switzerland (Office). *Telephone:* 206733 (Office); 474018 (Home).

BONDEVIK, Kjell, M.A.; Norwegian politician; b. 11 March 1901, Leikanger; s. of Ola and Severina Bondevik; m. 1st Agnes Sundal 1928, 2nd Torhild Bjørnstad 1957; three s. one d.; ed. Universitetet i Oslo. Schoolteacher 1927-37; Headmaster Sauda High School 1937-64; Senior Lecturer in Social History, Univ. of Bergen 1965-70; Chair. Christian People's Party in Rogaland 1939-50; mem. Nat. Board of Party 1949-61; mem. Storting 1950-65, Chair. of its Social Affairs Cttee. 1954-61; Parl. Leader Christian People's Party 1961-65; Minister of Social Affairs Aug.-Sept. 1963, Ecclesiastical Affairs and Educ. 1965-71. *Publications:* works on Norwegian folklore and traditions: Kristent innslag i norsk politikk 1800-1930 (Christian features in Norwegian policy) 1975, Jordbruket i norsk folketru III (Agriculture in Norwegian Folklore) 1977. *Address:* Oberst Rodes v. 90, Oslo II, Norway. *Telephone:* (02) 29-44-28.

BONDEVILLE, Emmanuel; French composer; b. 29 Oct. 1898, Rouen; m. 1st Jacqueline Petitalot 1955 (died 1970); m. 2nd Viorica Cortez 1974; two s. Dir. des Emissions artistiques, Radiodiffusion Française 1935-45; Dir. artistique de l'Opéra de Monte-Carlo 1945-49; Dir. Théâtre National de l'Opéra-Comique 1949-52; Dir. du Théâtre National de l'Opéra 1952-70, Hon. Dir.; mem. Académie des Beaux Arts 1959-, Perm. Sec. 1964-; Pres. then Hon. Pres. (1964-) Comité nat. de la musique; Grand Prix de la musique, Soc. des auteurs 1966. *Works:* Illuminations (Marine, Ophélie, Baldes Pendus) 1930-33, L'Ecole des maris 1935, Sonate pour piano, La cloche fêlée, Trois pochades, La rhapsodie foraine, Le pardon de Saint-Anne, Illustrations pour Faust 1942, Madame Bovary 1951, Gaultier-Garguille 1953, Symphonie lyrique 1957, Symphonie choréographique 1965, Antoine et Cléopâtre 1974. *Address:* Palais Mazarin, 25 Quai de Conti, 75006 Paris, France.

BONDI, Sir Hermann, K.C.B., M.A. F.R.S.; British mathematician; b. 1 Nov. 1919, Vienna, Austria; s. of late Samuel and Helene Bondi; m. Christine M. Stockman 1947; two s. three d.; ed. Real Gymnasium, Vienna, and Trinity Coll., Cambridge. Fellow, Trinity Coll., Cambridge 1943-49, 1952-54; Lecturer in Math., Cambridge Univ. 1948-54; Prof. of Applied Math., Univ. of London (King's Coll.) 1954-, on leave of absence 1967-; Dir.-Gen. European Space Research Org. (ESRO), Paris 1967-71; Chief Scientific Adviser to Ministry of Defence 1971-77; Chief Scientist Dept. of Energy Oct. 1977-; Chair. Offshore Energy Board, Dept. of Energy 1977-, Advisory Council on Research and Devt. for Fuel and Power 1977–; mem. Severn Barrage Cttee. 1978-; Research Assoc. Cornell Univ. 1951, Harvard Coll. Observatory 1953; Visiting Prof. Cornell Univ. 1960; Fellow, Royal Soc. 1959, Royal Astronomical Soc. (Sec. 1956-64), Cambridge Philosophical Soc.; Chair. Nat. Cttee. for Astronomy 1964-67; Pres. Inst. of Math. and its applications 1974. *Publications:* Cosmology 1952, (2nd edn. 1960), The Universe at Large 1961, Relativity and Common Sense 1964, Assumption and Myth in Physical Theory 1967, numerous papers. *Address:* Department of Energy, Thames House South, Millbank, London, S.W.1; East House, Buckland Corner, Reigate Heath, Reigate, Surrey, England.

BONDOR, József; Hungarian building engineer and politician; b. 19 Jan. 1917, Elesd; s. of Ferenc Bondor and Teréz Pap; m. Sarolta Csonka 1943; one d. Fmr. mason's apprentice; joined workers' movement 1940, CP 1945; directed reconstruction of Lenin Foundry Works in County Borsod; one of founders and builders of town of Dunaujváros; Chief Engineer, later Vice-Pres. of Budapest Metropolitan Council 1961-65; Deputy Minister of Building Construction and City Planning 1965-68, Minister 1968-77; Chair. Nat. Council for Environmental Protection 1974-; Labour Order of Merit, Golden degree 1970. *Address:* National Council of Environmental Protection, Beloiannisz-utca 2-4, Budapest V, Hungary. *Telephone:* 112-847.

BONGO, Albert-Bernard (Omar); Gabonese politician; b. 30 Dec. 1935, Lewai, Franceville; m.; two c.; ed. primary school at Bacongo (Congo—Brazzaville) and technical coll., Brazzaville; Civil Servant; served Air Force 1958-60; entered Ministry of Foreign Affairs 1960; Dir. of Private Office of Pres. Léon Mba 1962, in charge of Information 1963-64, Nat. Defence 1964-65; Minister-Del. to Presidency in charge of Nat. Defence and Co-ordination, Information and Tourism 1965-66; Vice-Pres. of Govt., in charge of Co-ordination, Nat. Defence Planning, Information and Tourism 1966-67; Vice-Pres. of Gabon March-Nov. 67; Pres., Minister of Defence, of Information Dec. 1967-, of Planning 1967-77, Prime Minister 1967-75, Minister of the Interior 1967-70, of Devt. 1970-77, of Women's Affairs 1976-77, and numerous other portfolios; Founder and Sec.-Gen. Parti Démocratique Gabonais 1968; High Chancellor, Ordre Nat. de l'Etoile Equatoriale; decorations from the Ivory Coast, Niger, Chad, Cameroon, Central African Empire, Mauritius, Togo, Taiwan, Zaire, France, U.K. and Guinea. *Address:* Boîte Postale 546, Libreville, Gabon. *Telephone:* 26-90.

BONGO, Martin; Gabonese politician; b. 4 July 1940, Lekei; ed. Ecole Normale de Mitzic; fmrly. school dir. in Franceville, then Insp. for Primary Instruction for Upper-Ogooué Region; fmr. Dir. of Cabinet to the Vice-Pres.; Deputy Dir. of Cabinet to the Pres. 1968-69; Commr.-Gen. for Information April-Dec. 1969; Sec. of State to the Presidency, for Penitentiary Services 1969-70, for Nat. Educ. in charge of Special Missions 1970-72, Head of State's Personal Rep. 1972-73; Minister of Educ. and Scientific Research 1973-75, of Nat. Educ. 1975-76, of Foreign Affairs and Co-operation Aug. 1976-; Commdr. Order of the Equatorial Star, Grand Officer, Nat. Order of Merit (Mauritania), Grand Officer, Order of Merit (Italy), Commdr. Ordre national du Mérite. *Address:* Ministère des Affaires Etrangères et de la Coopération, Libreville, Gabon.

BONIFACIO, Francesco Paolo; Italian jurist and government official; b. 3 May 1923, Castellammare di Stabia, Novara; ed. Law Faculty, Univ. of Naples; elected to Higher Council of Magistrates 1959; Dean, Faculty of Law, Univ. of Bari 1961; later Prof. of Roman Law, Univ. of Naples; mem. Communal Council of Castellammare di Stabia 1956-60, also mem. Provincial Council 1956-60; Judge, Constitutional Court (Supreme Court) 1963-73, Pres. 1973-75; Minister of Justice 1976-79; mem. Senate for Campania June 1976-. *Address:* c/o Ministry of Justice, Via Arenula, Rome, Italy. *Telephone:* 6510.

BONJOUR, Edgar Conrad, DR. PHIL.; Swiss university professor; b. 21 Aug. 1898, Berne; m. Dora Kocher 1941; two s. two d.; ed. Univs. of Berne, Geneva, Paris and Berlin; high school teacher 1921-32; Deputy Dir. of Federal Archives 1932; Priv. Doz. Univ. of Berne 1933-35; Prof. of History, Univ. of Basel 1935-, Dean of the Faculty of Philosophy 1940; Rector and Pres. of Ass. of Swiss univ. rectors 1946; Pres. of Basel Historic Soc. 1946-49; mem. of Polish Acad., Bavarian Acad.; Dr. h.c. (Neuchâtel) 1959, (St. Gallen) 1975. *Publications:* Geschichte der Schweiz 1938, Schillers historische Schriften 1944, Geschichte der schweizerischen Neutralität 1946, Das Schicksal des Sonderbundes in zeitgenössischer Darstellung 1947, Die Gründung des schweizerischen Bundesstaates 1948, Theodor Kocher 1950, Basel im Schweizerbund 1951, Johannes von Müller 1952, Der Neuenburger Konflikt 1956, Studien zu Johannes von Müller 1957, Die Universität Basel 60, Die Geschichtsschreibung der Schweiz (2 vols.) 1962-78 (in collaboration with R. Feller), Geschichte der schweizerischen Neutralität (9 vols., publ. in French 1970-71) 1967-74, Discordia Concors (2 vols.) 1968, Die Schweiz und Europa (6 vols.) 1958-78. *Leisure interest:* music. *Address:* Benkenstrasse 56, 4054 Basel, Switzerland. *Telephone:* 061-382610.

BONNEFOUS, Edouard; French politician; b. 24 Aug. 1907; ed. Ecole des Sciences Politiques and Inst. des Hautes Etudes Internationales; fmr. Pres. Comm. on Foreign Affairs, Nat. Ass.; Minister of Commerce, Faure Cabinet 1952, Minister of State, Mayer Cabinet Jan. 1953, Minister of Posts and Telegraphs until 1956, Minister of Transport and Public Works 1957-58; Deputy from Seine-et-Oise 1946-58, Senator 1959-; Chair. Comm. on Finance, Senate 1972-; mem. Consultative Ass., Council of Europe; Del. to UN 1948-52; fmr. Chancellor Inst. de France, Pres. French Cttee., Ligue Européenne de Coopération Economique; Prof. Inst. des Hautes Etudes Internationales; Pres. Soc. of Political Econ., Assn. Nat. de Protection des Eaux, Assn. Professionnelle de la Presse Républicaine, Assn. and Féd. Française pour la Défence de l'Environnement contre les Pollutions et les Nuisances; Pres. Conservatoire Nat. des Arts et Métiers 1975, later Vice-Pres. Exhbn. Cttee.; Vice-Pres. Inst. Océanographique, Inst. des Hautes Etudes de l'Amérique; mem. Inst. de France, later mem. Central Admin. Comm.; fmr. mem. Acad. de Sciences morales et politiques; mem. Conseil Régional de l'Ile-de-France, Pres. Conseil d'Admin. de l'Agence des Espaces Verts de la Région de l'Ile-de-France; Grand Prix Gobert, Acad. Française 1968, Prix de Cercle Européen/Sévigné (Louise Weiss) 1976, Prix Berthault, Académie des Sciences 1972. *Publications:* Le corporatisme, Devant et derrière le rideau de fer, A travers l'Europe mutilée, L'Idée européenne et sa réalisation, L'Europe en face de son destin, Encyclopédie de l'Amérique Latine, La réforme administrative, Les grands travaux, Histoire politique de la IIIe République (7 vols.), La terre et la faim des hommes, L'Année politique (26 vols.), Les milliards qui s'envolent, Le monde est-il surpeuplé? L'Homme ou la nature, Sauver l'humain. *Address:* 6 rue de l'Elysée, Paris, France.

BONNEFOY, Yves Jean, L. ès L.; French writer; b. 24 June 1923, Tours; s. of Elie Bonnefoy and Hélène Maury; m. Lucille Vine; one d.; ed. Lycée Descartes, Tours, Faculté des Sciences, Poitiers, and Faculté des Lettres, Paris; lived in Paris 1943-; contributor to Mercure de France, Critique, Encounter, L'Ephémère, etc.; has travelled in Europe, Asia and N. America; lectures or seminars at Brandeis, Johns Hopkins, Princeton, Geneva, Nice, Yale and other univs. *Publications:* Du mouvement et de l'immobilité de Douve (poems) 1953 (On the Motion and Immobility of Douve 1968), Hier régnant desert 1958, L'Improbable (essays) 1959, Pierre écrite (poems) 1964, Arthur Rimbaud (essay) 1961, Un rêve fait à Mantoue (essays) 1967, Selected Poems 1968, Dans le leurre du seuil (poems) 1975, Le nuage rouge (essays) 1977, Rue traversière (essays) 1977, Poèmes (1947-1975) 1978; Art: Peintures murales de la France Gothique 1954, Miró 1963, Rome 1630 1969, L'Arrière-Pays (essays) 1972; Co-Editor L'Ephémère; translations of Shakespeare. *Address:* 63 rue Lepic, 75018 Paris, France. *Telephone:* 606-88-12.

BONNER, James, PH.D.; American professor of biology; b. 1 Sept. 1910, Ansley, Neb.; s. of Walter D. and Grace Gaylord Bonner; m. Ingelore Silberbach 1967; one s. three d.; ed. Univ. of Utah, Calif. Inst. of Tech. and Oxford Univ. Nat. Research Council Fellow, Utrecht, Zürich and Leiden 1934-35; Instructor, Calif. Inst. of Tech. 1936-38, Asst. Prof. 1938-43, Assoc. Prof. 1943-46, Prof. 1946-; mem. Nat. Acad. of Sciences. *Publications:* Plant Biochemistry 1950, Principles of Plant Physiology 1952, The Next 100 Years 1957, The Nucleohistones 1964, The Molecular Biology of Development 1965, The Next 90 Years 1967, The Next 80 Years 1977, and c. 400 scientific publs. *Leisure interests:* skiing, mountain climbing, travel. *Address:* California Institute of Technology, Pasadena, Calif. 91109 (Office); 1914 Edgewood Drive, South Pasadena, Calif. 91030, U.S.A. (Home). *Telephone:* 213-695-6811, Ext. 1928 (Office); 213-799-8224 (Home).

BONNER, Robert William, LL.B., Q.C.; Canadian politician and business executive; b. 10 Sept. 1920, Vancouver; m. Barbara Newman 1942; one s. two d.; ed. Univ. of British Columbia; army service in U.K., N. Africa, Sicily, Italy 1942-45; mem. Legis. Ass., B.C. 1952-68; Attorney-Gen., B.C. 1952-68, at various times concurrently Minister of Educ., of Industrial Devt., of Trade and Commerce, of Commercial Transport; Senior Vice-Pres. Admin., MacMillan Bloedel Ltd. 1968-71, Dir. 1968-, mem. Exec. Cttee. 1969, Vice-Chair. 1971-72, Pres., Chief Exec. Officer 1972-73, Chair. 1973-74, retd. 1974; Chair, B. C. Hydro & Power Authority 1976-; mem. Board, Int. Nickel Co. of Canada Ltd., Canadian Cable Systems Ltd., J. Henry Shroder & Co. Ltd., Canadian Bar Assn., Vancouver Bar Assn., Law Soc. of B.C., Board of Montreal Trust. *Leisure interests:* photography, boating. *Address:* British Columbia Hydro & Power Authority, 970 Burrard Street, Vancouver, B.C. V6Z 1Y3, Canada.

BONNET, Christian, D. EN D.; French industrialist and politician; b. 14 June 1921, Paris; s. of Pierre Bonnet and Suzanne Delebecque; m. Christiane Mertian 1943; five c.; ed. Univ. of Paris and Ecole des sciences politiques. Pres. Les Grandes Marques de la conserve 1952-61, Del. Conseil supérieure de la conserve; MRP Deputy for Morbihan 1956-58; Deputy for the second constituency of Morbihan 1958-; Gen. Councillor, Belle-Ile 1963-; Mayor of Carnac 1964-; fmr. Sec.-Gen. Républicains Indépendants; Chair. Cttee. on the Merchant Marine budget; Pres. Supervisory Council, Caisse des dépots et consignations; Sec. of State for Supply, Housing and Territorial Devt. 1972-74; Minister of Agric. 1974-77; of the Interior March 1977-. *Address:* Ministère de l'Interieur, Place Beauveau, Paris 75800, France.

BONO, Gaudenzio, DR. ENG.; retired Italian industrialist; b. 17 May 1901, Turin; s. of Stefano Bono and Giuseppina Caire; m. Giuseppina Bono; three s.; ed. Politecnico of Turin. Sole Man. Dir. and Gen. Man. FIAT, Turin until 1969, Man. Dir. 1969-72 and Vice-Chair. 1972-75; fmr. Chair. "Galileo Ferraris" Nat. Electrical Eng. Inst.; fmr. Dir. several Italian companies; Cavaliere del Lavoro; Knight Grand Cross of the Italian Republic. *Address:* 10, Corso Marconi, Turin, Italy.

BONOW, (Karl Daniel) Mauritz, LIC. PHIL.; Swedish co-operative official; b. 5 Sept. 1904, Luleå; s. of Walfrid Mauritz Bonow and Andréa Jonsson; m. Anna Margareta Edlund 1931; one s. three d.; ed. Uppsala Univ. and London School of Economics; Asst. Chief of Secr., Kooperativa förbundet 1931-39; Chief of Research Bureau, State Food Comm. 1940-41; Gen. Sec. and Dir. Kooperativa förbundet 1941-69; Vice-Pres. Int. Co-operative Alliance 1955-60, Pres. 1960-75. *Publications:* Staten och jordbrukskrisen (The State and the Agricultural Crisis) 1935, Staten och näringslivet (The State and Economic Life) 1943, Kooperationen och folkförsörjningen (Co-operation and the Structure of Society) 1936, Producer and Consumer 1954, Co-operation in a Changing World 1960, Demokratisk ekonomi 1969, Co-operative Consumer Policy 1972, International Co-operation for Self-Reliance 1975. *Leisure interest:* gardening. *Address:* Björns Trädgårdsgränd 3, Stockholm, Sweden. *Telephone:* 40-97-83.

BONVIN, Roger; Swiss public servant; b. 12 Sept. 1907; ed. Sion and Einsiedeln Colls.; constructed tunnels for Dixence S.A. 1932-34; Fed. Topography Service 1934-35; Local Govt. Depts. 1936-49; Collaborator in Elektrowatt S.A. 1949-55, Mayor of Sion 1955-62; Nat. Councillor 1955-62; mem. Swiss Fed. Council 1962-73, Vice-Pres. 1966, 1972, Pres. 1967, 1973; Head of Finance Dept. 1962-68, of Transport Dept. 1968-73; Christian Dem. *Address:* Grand Pont 29, Sion, Switzerland.

BONVOISIN, Baron Pierre de, D. en D., M.A.; Belgian banker; b. 1903, Verviers; m. Elisabeth Galopin 1933; two s. two d.; ed. Liège and Princeton Univs.; Hon. Chair. of Board, Société Générale de Banque, Brussels; Extraordinary Prof. Emer. of Money and Banking, Univ. of Louvain; Hon. Chair. Belgian American Banking Corpn., N.Y., Belgian American Bank & Trust Co., N.Y., Crédit Foncier International, Banque Belge Ltd. (London), Crédit Foncier de Belgique, Compagnie Immobilière de Belgique, Belgian Nat.

Cttee. of Int. Chamber of Commerce. *Address:* 3 Montagne du Parc, 1000 Brussels (Office); 30 Boulevard Saint Michel, 1040 Brussels, Belgium (Home). *Telephone:* (02) 513-66-00 (Office); (02) 733-72-35 (Home).

BONYNGE, Richard, C.B.E.; Australian conductor; b. 20 Sept. 1930, Sydney; m. Joan Sutherland (q.v.) 1954; trained as a pianist; debut ■ conductor with Santa Cecilia Orchestra, Rome 1962; conducted first opera Faust, Vancouver 1963; has conducted in most of leading opera houses; Artistic Dir., Principal Conductor Sutherland/Williamson Int. Grand Opera Co., Australia 1965; Artistic Dir. Vancouver Opera Assn. 1974-; Musical Dir. Australian Opera 1975-. Has conducted La Sonnambula, La Traviata, Faust, Eugene Onegin, L'Elisir d'amore, Orfeo 1967, Semiramide, Florence 1968, Giulio Cesare, Lucia di Lammermoor, Hamburg, New York 1969-71, Norma and Orfeo, N.Y. 1970, The Tales of Hoffmann, N.Y. 1973, Sydney Opera House 1974. *Major recordings include:* Alcina, La Sonnambula, Norma, Beatrice di Tenda, I Puritani, Faust, Semiramide, Lakmé, La Fille du Régiment, Messiah, Don Giovanni, Les Huguenots, L'Elisir d'amore, Lucia di Lammermoor, Rigoletto, The Tales of Hoffmann, Thérèse (Massenet), numerous orchestral works, ballet including Giselle, Coppélia, Sylvia, The Nutcracker. *Address:* c/o Ingpen and Williams, 14 Kensington Court, London, W.8, England.

BÖÖHER, Edward E.; American publisher; b. 29 June 1911, Dayton, Ohio; s. of Wilfred Elsworth Booher and Cora Bell Middlestetter Booher; m. 1st Selena Read Knight 1939, 2nd Agnes Martin Whitaker 1961; two s. one d., two step-s. one step-d.; ed. Antioch Coll.; McGraw-Hill Book Co., Vice-Pres. 1944-54, Exec. Vice-Pres. 1954-60, Pres. 1960-68, Chair. 1968-70; Pres. Books and Educ. Services Group, McGraw-Hill Inc. 1970-76; Dir. Nat. Enquiry into Scholarly Publishing 1976-78; Dir. Fidelity Union Trust; mem. Advisory Board, The Partisan Review; Gov. Yale Univ. Press; mem. Visiting Cttee. of Harvard Graduate School of Educ., U.S. State Dept. U.S.-India Joint Sub-Comm. for Educ. and Culture; Woodrow Wilson Fellow; Trustee, Asia Soc. *Leisure interest:* education. *Address:* 34 Wilson Road, Princeton, N.J. 08540, U.S.A. *Telephone:* 609-921-7822.

BÖÖK, Klas Erik, FIL. LIC.; retd. Swedish banker and diplomatist; b. 10 March 1909, Lund; m. Aina Hakon-Pettersson 1933; three s. two d.; Sec., Bank of Sweden 1937, Head of Research Dept. 1940, Deputy Man. Foreign Exchange Control Office 1940, Man. Bank of Sweden 1943, Deputy Gov. 1944, Gov. 1948-51; mem. Foreign Trade Comm. Board 1944; Envoy Extraordinary and Minister Plen.; Head of Commercial Dept. Foreign Office 1947; Deputy Chair. Export Credit Guarantee Board; Chair. Foreign Exchange Control Board, mem. Foreign Funds Control Board; Swedish Minister in Canada 1951-55; Amb. to China and Thailand 1955-61, to India, Ceylon and Nepal 1961-65, to Switzerland 1965-72; Special Commr. in Foreign Office 1972-76. *Address:* Lya, 260 97, O. Karup, Sweden. *Telephone:* 0431-71-601.

BOOKER, Henry George, PH.D.; American professor of applied physics; b. 14 Dec. 1910, Barking, Essex, U.K.; s. of Charles Henry Booker and Gertrude Mary Booker; m. Adelaide Mary McNish 1938; two s. two d.; ed. Cambridge Univ.; Research Fellow, Christ's Coll., Cambridge 1935-40; Scientific Officer in British Radar Research Establishment 1940-45; Univ. Lecturer in Math., Cambridge Univ. 1945-48; Prof. of Electrical Eng., Cornell Univ. 1948-65, Prof. of Eng. Physics 1949-65, IBM Prof. of Eng. and Applied Math. 1962-65, Dir. School of Electrical Eng. 1959-63; Prof. of Applied Physics, Univ. of Calif., San Diego 1965-; Research Assoc. Carnegie Inst. of Washington 1937-39; Guggenheim Fellow, Cambridge Univ. 1954-55; Staff Scientist, Stanford Research Inst. 1962-63; Hon. Pres. Int. Union of Radio Science 1978-; mem. Nat. Acad. of Sciences and numerous other socs.; numerous prizes. *Publications:* Over fifty scientific works. *Leisure interest:* swimming. *Address:* Department of Applied Physics and Information Science, University of California, San Diego, La Jolla, Calif. 92037, U.S.A.

BOOKOUT, John Frank, M.A.; American petroleum executive; b. 31 Dec. 1922, Shreveport, La.; s. of the late John Frank and Lena (Hagen) Bookout; m. Mary Carolyn Cook 1946; one s. two d.; ed. Centenary Coll., Shreveport, La., Univ. of Texas, Austin, Tex.; joined Shell Oil Co., Geologist, Tulsa, Okla. 1950-59, Man. Exploration Div. 1959-61, Area Exploration Man., Denver, Colo. 1961-63, the Hague, Netherlands 1963-64, Exploration Man., New Orleans 1964, Man. Exploration and Production Econs. Dept., New York 1965, Vice-Pres. Denver Area 1966, Vice-Pres. Southeastern Exploration and Production Region 1967-70; Pres. and Chief Exec. Officer, Shell Canada Ltd. 1970-74; Exec. Vice-Pres. Shell Oil Co. 1974-76, Pres. and Chief Exec. Officer 1976-; Dir. Charter New York Corpn., Safeway Stores Inc., American Petroleum Inst.; mem. Board of Visitors Tulane Univ., Southern Regional Advisory Board of Inst. of Int. Educ., British-North America Cttee., Geology Foundation Advisory Council of Texas Univ.; Hon. D.SC. (Tulane). *Leisure interests:* hunting, fishing. *Address:* Shell Oil Company, One Shell Plaza, P.O. Box 2463, Houston, Tex. 77001 (Office); P.O. Box 13614, Houston, Tex. 77019, U.S.A. (Home). *Telephone:* (713) 241-4015 (Office).

BOOMSTRA, Sjoerd, D.JUR.; Netherlands financial executive; b. 12 Sept. 1913, Rotterdam; m. Henny Brons 1954; two c.; ed. secondary school, Bandung, Indonesia, Univ. of Leiden. Netherlands Clearing Inst. and Deviezen Inst. 1938; joined Ministry of Finance 1945, Deputy Dir., then Dir. External Finance 1953; Vice-Pres. EIB 1970-76, Hon. Vice-Pres. 1976-. *Address:* Ridderlaan 25, The Hague, Netherlands. *Telephone:* 24-41-67.

BOON, Henrik Nicolaas, LL.D.; Netherlands diplomatist; b. 23 Aug. 1911, Rotterdam; s. of Jan Boon and Elizabeth Johanna Mees; m. Charlotte Talitha Mees 1936; four d.; ed. Univs. of London, Paris and Leyden and Geneva School of Int. Studies; served Ministry of Foreign Affairs 1936-39; served in Madrid, Brussels, Washington, Tsjoengking, Batavia and Nanking 1939-47; Deputy and later Chief of Diplomatic Affairs Division, Ministry of Foreign Affairs 1947-49; Sec.-Gen. Ministry of Foreign Affairs 1949-52, Minister later Amb. to Italy 1952-58, Amb. to Venezuela 1958-61; Amb. on Special Mission; Perm. Rep. to NATO 1961-70; Amb. to Italy, also accred. to Malta 1971-77; Knight Order of Netherlands Lion, Grand Officer, Order of Orange-Nassau, Grand Cross Order of Adolf van Nassau of Luxembourg, Grand Officer Order of the Crown of Belgium, Commdr. Légion d'honneur, Grand Cross Ordine al Merito, Italy. *Publications:* Rêve et réalité dans l'oeuvre économique et social de Napoléon III, Bagatellen, Afscheidsaudientie (Farewell Audience), Uitgevaren-thuisgevaren. *Leisure interests:* archaeology, journalism, classical music, skiing, horse-riding. *Address:* Parkflat Marlot 16, Offenberglaan 1, 2594 BM 's-Gravenhage, Netherlands.

BOORMAN, John; British film director, producer and screenwriter; b. 18 Jan. 1933; s. of George and Ivy (Chapman) Boorman; m. Christel Kruse 1957; one s. three d.; ed. Salesian Coll., Chertsey. Broadcaster and critic, BBC Radio, also contributor to Manchester Guardian and magazines 1950-54; army service 1951-53; Film Editor, ITN London 1955-58; Dir. and Producer Southern TV 1958-60; Head of Documentaries, Bristol, BBC TV directing documentary The Citizen, series The Newcomers 1960-64; left BBC to work ■ film director; Chair. Nat. Film Studios of Ireland 1975-; Best Director Prize, Cannes Festival 1970, many film awards. *Television:* founded magazine Day by Day, dir. The Citizen 1963, The Newcomers 1960-64; films: Catch us if you Can 1965, Point Blank 1967, Hell in the Pacific 1968, Leo the Last 1969, Deliverance 1970, Zardoz 1973, The Heretic 1976; novel: The Legend of Zardoz 1973. *Leisure interests:* hacking the Wicklow Hills, losing gracefully at tennis, skiing in the wake of my kids. *Address:* The Glebe, Annamoe, Co. Wicklow, Ireland. *Telephone:* Wicklow (404) 5177.

BOORSTIN, Daniel J., M.A., LL.D.; American historian, author and librarian; b. 1 Oct. 1914, Atlanta, Ga.; s. of late Samuel Boorstin and Dora Olsan; m. Ruth Carolyn Frankel 1941; three s.; ed. Harvard Coll., Balliol Coll., Oxford, Cambridge and Yale Univs. Harvard Coll. and Harvard Law School 1938-42; Office of Lend-Lease Admin., Washington 1942; Asst. Prof., Swarthmore Coll. 1942-44; Prof. of American History and Preston and Sterling Morton Distinguished Service Prof. of History, Univ. of Chicago 1944-69; Prof. American History, Univ. of Paris 1961-62; Pitt Prof. American History and Institutions and Fellow, Trinity Coll. Cambridge 1964-65; Dir. Nat. Museum of History and Tech. 1969-73; Shelby and Kathryn Cullom Davis Lecturer, Graduate Inst. of Int. Studies, Geneva 1973-74; Senior Historian Smithsonian Inst., Washington, D.C. 1973-75; The Librarian of Congress 1975-; mem. Board Trustees Colonial Williamsburg, Board Dirs. Thomas Gilcrease Museum, Comm. on Critical Choices for Americans; numerous hon. degrees; Pulitzer Prize for History 1974, and several other prizes. *Publications:* The Mysterious Science of the Law 1941, Delaware Cases 1792-1830 (3 vols.) 1943, The Lost World of Thomas Jefferson 1948, The Genius of American Politics 1953, The Americans: The Colonial Experience 1958, America and the Image of Europe 1960, The Image or What Happened to the American Dream 1962, The Americans: The National Experience 1965, The Landmark History of the American People (2 vols.) 1968, 1970, The Decline of Radicalism 1969, The Sociology of the Absurd 1970, The Americans: The Democratic Experience 1973, Democracy and its Discontents 1974, The Exploring Spirit 1976, The Republic of Technology 1978; Editor: An American Primer 1966, American Civilization 1972. *Leisure interests:* gardening, bird watching, cross-

country skiing. *Address:* The Library of Congress, Washington, D.C. 20540 (Office); 3541 Ordway Street, N.W., Washington, D.C. 20016, U.S.A. (Home). *Telephone:* (202) 426-5205 (Office).

BOOTH, Rt. Hon. Albert Edward, P.C., M.P.; British politician; b. 28 May 1928; s. of Albert Henry Booth and Janet Mathieson; m. Joan Amis 1957; three s.; ed. South Shields Marine School, Rutherford Coll. of Technology; worked as a marine eng. draughtsman; elected to Tynemouth Borough Council 1962; Tynemouth Election Agent 1951, 1955; M.P. for Barrow-in-Furness 1966-; Minister of State, Dept. of Employment 1974-76; Sec. of State for Employment 1976-79; Opposition Spokesman for Transport June 1979-; Labour. *Address:* House of Commons, Westminster, London S.W.1, England.

BOOTHBY, Baron (Life Peer), cr. 1958, of Buchan and Rattray Head; **Robert John Graham Boothby,** K.B.E., LL.D.; British politician; b. 12 Feb. 1900, Edinburgh; s. of the late Sir Robert Tuite Boothby, K.B.E., and Mabel (née Lancaster); m. 1st Diana Cavendish 1935 (divorced 1937); m. 2nd Wanda Sanna 1967; ed. Eton and Magdalen Coll., Oxford. Unionist M.P. for East Aberdeenshire 1924-58; Parl. Private Sec. to Mr. Winston Churchill (Chancellor of the Exchequer) 1926-29; Parl. Sec. to Ministry of Food 1940-41; British Del. to Consultative Ass. of Council of Europe 1949-57, Vice-Chair. Cttee. on Economic Affairs 1952-56; Rector of St. Andrews Univ. 1958-61; Chair. Royal Philharmonic Orchestra 1961-63; Pres. Anglo-Israel Assen.; Officier de la Légion d'honneur 1950. *Publications:* The New Economy 1943, I Fight to Live 1947, My Yesterday, Your Tomorrow 1962, Boothby (autobiography) 1978. *Address:* 1 Eaton Square, London, S.W.1; House of Lords, London, S.W.1, England.

BOOTHE, Clare (*see* Luce, Mrs. Clare).

BORBÁNDI, János; Hungarian politician; b. 1923; ed. Univ. of Political Econ., Party Acad.; joined Communist Party 1945; machine fitter Csepel Iron Works until 1949; political posts in factory and party headquarters 1949-53; Sec. Factory Party Cttee., Lenin Foundry Works, Diósgyór 1953-55; First Sec. Party Cttee., Budapest District II 1958-61; Deputy Minister of Defence 1961-66; Leader Admin. Dept., Cen. Cttee., Hungarian Socialist Workers' Party 1966, mem. Cen. Supervisory Dept. 1962-66, Cen. Cttee. 1970-; mem. Parl. 1962-66; Deputy Prime Minister 1974-. *Address:* Office of the Prime Minister, Kossuth Lajos tér, 1357 Budapest, Hungary. *Telephone:* 123-500.

BORBELY, Sándor; Hungarian politician; b. 1931, Nagybun.; began career as toolmaker; entered politics 1947; full-time communist youth leader 1949-55; mem. Hungarian Working People's Party 1950-56, Hungarian Socialist Workers' Party (HSWP) 1956–; mem. Youth Cttee. of HSWP and organizing cttee. of Communist Youth League (CYL) 1956; Sec. of Cen. Cttee. of CYL, First Sec. of Budapest Cttee. of CYL 1957; alt. mem. Cen. Cttee. of HSWP 1957; Sec. of Party Cttee., Csepel Iron and Metal Works 1962, First Sec. 1970; First Sec. of HSWP Cttee., 21st District of Budapest 1966-70; Head of Industry, Agric. and Transport Dept. of HSWP Cen. Cttee. 1975, Sec. of Cen. Cttee. 1976-. *Address:* Central Committee of the Hungarian Socialist Workers' Party, Széchenyi rakpart 19, Budapest V, Hungary. *Telephone:* 111-400.

BORD, André; French politician; b. 30 Nov. 1922, Strasbourg; s. of Alphonse Bord and Marie-Anne Sigrist; m. Germaine Fend; two s. Mem. of Nat. Ass. 1958-66, 1967, 1968, 1973; mem. Municipal Council, Strasbourg 1959-, Deputy Mayor 1959-; mem. Conseil Général, Strasbourg 1961-, Pres. 1967-; Pres. Groupe des Non-Inscrits pour Union Nat. des Anciens Combattants, European Parl. 1961-66; Sec. of State for Interior 1966-72, for Ex-Servicemen and War Victims 1972-77, for Relations with Parl. 1977-; Sec.-Gen. UDR 1975-76; Founder, Pres. Assen. for Industrial Devt., Alsace 1967; Pres. Regional Council of Alsace 1973-, Assen. Départementale du Tourisme; Médaille militaire, Médaille de la France libre, Médaille de la Résistance; Croix de guerre avec palme; Grand Officer, Order of Orange-Nassau (Netherlands), Order of Polonia Restituta (Poland), and others. *Address:* 37 rue de Bellechasse, 75007 Paris, France. *Telephone:* 551-41-29.

BORDABERRY AROCENA, Juan Maria; Uruguayan politician; b. 17 June 1928, Montevideo; s. of Domingo Bordaberry and Elisa Arocena de Bordaberry; m. Josefina Herrán Puig; seven s. one d.; ed. Univ. Montevideo; Chair., Nat. Meat Board 1959; mem. Hon. Comm. for Agric. Devt. Plan 1960; mem. Nat. Wool Bd. 1960-62; Chair. Comm. Against Foot and Mouth Disease 1962; mem. Senate 1962-64; Chair. Liga Federal de Acción Ruralista 1964; Minister of Agric. 1969-72; Pres. of Uruguay 1972-76 (deposed). *Address:* Joaquín Suárez 2868, Montevideo, Uruguay. *Telephone:* 20-14-12.

BORDAZ, Robert, D. en D., L. ès L.; French government official; b. 6 July 1908, Argenton Chateau, Deux Sèvres; s. of Louis Bordaz and Marguerite Michel; m. 1947; two s. one d.; Communications and Merchant Marine Office, Algiers 1943; Ministry of Public Works, Paris; Master of Petitions, Council of State 1944; Ministry of Nat. Economy 1945; Govt. Commr., Banque de Paris et des Pays Bas 1946-48; Head of Private Office of Minister of Construction 1948-51; Dir. Bank Inst. of Cambodia, Laos and Viet-Nam 1951-54; Deputy Commr. Indo-China 1954-56; Commercial Counsellor and Head of Dept. of Econ. Expansion, Moscow 1956-58; Counsellor of State 1958-; Pres. Inst. d'Aménagement et d'Urbanisme de la Ville de Paris 1960-62; Dir.-Gen. Radiodiffusion-Télévision Française 1962-64; mem. Board of Agence France-Presse; Commr.-Gen. French section Expo 1967, Montreal 1964-67; Pres. Etablissement Public du Centre Georges Pompidou 1970-; Pres. Union Centrale des Arts Décoratifs 1975; Commr. Légion d'honneur, Médaille de la Résistance, Commdr. des Arts et des Lettres. *Publications:* La nouvelle Economie Soviétique 1935-1960 1960, monthly column in La Nouvelle Revue des Deux Mondes since 1970. *Leisure interest:* cinema. *Address:* 51 Avenue Montaigne (Office); 15 rue Gay-Lussac, 75005 Paris, France (Home). *Telephone:* 359-3005 (Office); 033-10-31 (Home).

BORDER, Lewis Harold, M.V.O.; Australian diplomatist; b. 16 April 1920, Bundarra, N.S.W.; s. of late Archdeacon Harold Border and Nellie Lillyman; m. Margaret Fae Gerrand 1956; one s. three d.; ed. The Armidale School, Armidale, and Univ. of Sydney; Australian Army 1941-45; entered Australian Diplomatic Service 1945, served Japan, Switzerland, India and Washington, D.C. 1947-59; Amb. to Burma 1963-65, to Repub. of Viet-Nam 1966-68; Australian High Commr. in Pakistan and Amb. to Afghanistan 1968-70; Deputy Sec. Dept. of Foreign Affairs 1971-75; Amb. to Fed. Repub. of Germany 1975-77; High Commr. in New Zealand 1977-. *Leisure interests:* reading, golf. *Address:* Australian High Commission, 72-78 Hobson Street, Thordon, Wellington; P.O.B. 12145, Wellington, New Zealand.

BORDIER, Roger; French writer; b. 5 March 1923; s. of Robert Bordier and Valentine Jeufraux; m. Jacqueline Bouchaud; ed. secondary school; journalist in the provinces, later in Paris; Contributor to Nouvelles Littéraires and Aujourd'hui; radio and television writer; Prix Renaudot 1961. *Publications:* poems: Les épicentres 1951; novels: La cinquième saison 1959, Les blés 1961, Le mime 1963, L'Entracte 1965, Un âge d'or 1967, Le tour de ville 1969, Les eventails 1971, L'océan 1974, Meeting 1976, Demain l'été 1977; Plays: Les somnambules 1963, Les visiteurs 1972; Essays: L'objet contre l'art 1972, Le progrès: Pour qui? 1973, L'art moderne et l'objet 1978. *Address:* 8 rue Geoffrey St. Hilaire, 75005 Paris, France. *Telephone:* 535-22-56.

BOREHAM, Arthur John, C.B., B.A.; British civil servant; b. 30 July 1935, Hindhead; s. of late Venerable Frederick and Caroline Mildred Boreham; m. Heather Horth 1948; three s. one d.; ed. Marlborough Coll., Trinity Coll., Oxford; Temporary Higher Executive Officer, Ministry of Food 1950-52; with Ministry of Agriculture and Fisheries 1952-55, Gen. Register Office 1955-58, 1963-67, Central Statistical Office 1958-63 and 1971-, Ministry of Technology 1967-71; Dir. Central Statistical Office, Head of Gov. Statistical Service 1978-. *Leisure interests;* music, country life. *Address:* Piperscroft, Brittains Lane, Sevenoaks, Kent, TM3 2NG, England. *Telephone:* Sevenoaks 54678.

BOREL, Jacques; French writer, teacher and critic; b. 17 Dec. 1925, Paris; s. of Pierre Borel and Lucie Dubée; m. Christiane Idrac 1948; one s. four d.; ed. Lycée Henri IV, Paris and Univ. de Paris; Teacher, Lycée de Clermont-Ferrand 1952-56, Lycée Rodin, Paris 1956-67; Visiting Prof. Middlebury Coll. 1966, Portland State Coll. 1967, Univ. of Hawaii 1968, Univ. of Calif. (Irvine) 1969; contributes poems and essays to Nouvelle Revue Française, Critique, Cahiers du Chemin, Mercure de France, Botteghe Oscure, Cahiers du Sud, Figaro, etc.; Prix Goncourt 1965, Chevalier Arts et Lettres 1971. *Publications:* Editor Verlaine's Complete Works 1959-60, Poetical Works 1962, Complete Works in Prose 1972; L'adoration (novel) 1965, Tata ou de l'education (play) 1967, Le retour (novel) 1970, Marcel Proust (essay) 1972, La dépossession (diary) 1973, Commentaires (essays) 1974, Un voyage ordinaire (diary) 1975; Trans. James Joyce's The Cat and the Devil 1966, Collected Poems 1967, Prefaces to Romanciers au travail 1967, Du Bellay's Poetical Works 1967, Guillevic's Terraqué 1968, Fargue's Vulturne and Epaisseurs 1971, Francis Jammes' De l'Angélus de l'aube à l'Angélus du soir 1971, Verlaine's Poèmes Saturniens, Fêtes galantes, Romances sans paroles 1973. *Address:* 22 rue Charles de Gaulle, 91440 Bures-sur-Yvette, Essonne, France. *Telephone:* 907-57-29.

BOREL, Jacques Paul; French restaurant and hotel executive; b. 9 April 1927, Courbevoie; s. of William and Marie (née Le Monnier) Borel; m. Christiane Roubit 1949; two s. one d.; ed. Lycées Condorcet and Carnot, Paris, Ecole des Hautes Etudes Commerciales; mem. Sales Force IBM France 1950-57, Man. Saigon (Viet-Nam) Branch Office IBM; Founder Restaurant Chain Jacques Borel 1957, became Compagnie des Restaurants Jacques Borel (CRJB) 1960, then Jacques Borel Int. (J.B. Int.) 1970, Pres., Dir.-Gen. -1977; Dir. Sofitel Jacques Borel, Jacques Borel Belgie NV-Belgique SA, Jacques Borel Do Brasil, Jacques Borel Deutschland, Jacques Borel Italia, Jacques Borel Nederland, Jacques Borel Iran, Jacques Borel Misr (Egypt), Jacques Borel Venezuela, Hoteles Jacques Borel (Barcelona), Farah Maghreb (Casablanca); Founder Syndicat Nat. des Restaurants Economiques 1966, become Syndicat Nat. des Chaînes d'Hôtels et de Restaurants de Tourisme et d'Entreprise 1970, Pres. until 1972, then Founder-Pres.; Pres. Groupement HEC Tourisme-Hôtellerie. *Leisure interests:* music, painting, sailing. *Address:* J.B. Entreprises, 35 rue de Pont à Neuilly sur Seine 92200 (Office); Les Villepreux, 47 avenue de Villepreux, 92 Vaucresson, Hauts-de-Seine, France (Home). *Telephone:* 260-35-25 (Office) 970-65-84 (Home).

BOREN, David L., M.A., J.D.; American lawyer and state governor; b. 21 April 1941, Washington, D.C.; s. of Lyle H. and Christine (McKown) Boren; m. 1st, one s. one d.; m. 2nd Molly W. Shi 1977; ed. Yale, Oxford and Oklahoma Univs. Rhodes Scholar 1965; Asst. to Dir. of Liaison, Office of Civil and Defense Mobilization 1960-62; Propaganda Analyst, Soviet Affairs, U.S. Information Agency 1962-63; Speakers Bureau, U.S. Embassy, London 1963-65; mem. residential counselling staff, Univ. of Okla. 1965-66; mem. Okla. House of Reps. 1966-74; Chair. Govt. Dept., Okla. Baptist Univ. 1969-74; Gov. of Okla 1975-79; Senator from Okla. 1979-. *Leisure interests:* family, reading, rowing, tennis. *Address:* U.S. Senate Office Building, Washington D.C., U.S.A. *Telephone:* 521-2821.

BORESKOV, Georgiy Konstantinovich; Soviet chemist; b. 20 April 1907, Omsk; ed. Odessa Chemical Inst.; at Ukrainian Chemico-Radiological Inst., Odessa 1928-37; Instructor, Odessa Inst. of Chemical Technology 1930-37, Odessa Univ. 1934-37; Dir. Catalysis Lab., Moscow Fertilizer, Insecticide and Fungicide Research Inst. 1937-49; Assoc. Karpov Physico-Chemical Inst. 1946-; Prof. Moscow Inst. of Chemical Technology 1949-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-; Dir. Inst. of Catalysis, Siberian Dept., U.S.S.R. Acad. of Sciences 1961-; State Prize 1942-53; Hero of Socialist Labour 1967, Order of Lenin (twice), Hammer and Sickle Gold Medal. *Publications:* on investigations of catalytic processes. *Address:* Institute of Catalysis, Siberian Department of U.S.S.R. Academy of Sciences, Akademgorodok, Novosibirsk, U.S.S.R.

BORG, Kim, M.SC.; Finnish singer; b. 1919, Helsinki; s. of Kaarlo Borg and Hilkka Stenius; m. Ebon Ringblom 1950; one s. one d.; ed. Helsinki Inst. of Technology and Sibelius-Acad., Helsinki. Début, Helsinki 1947; Royal Theatre, Copenhagen 1952-70; Finnish Nat. Opera 1952-70; Munich State Opera 1956-57; Glyndebourne Opera Co. 1956, 1959 and 1968; Metropolitan Opera Co., New York 1959-62; Royal Theatre, Stockholm 1963-75; Hamburg State Opera 1964-69; Prof. Royal Conservatory, Copenhagen 1972-; guest appearances at State Opera, Vienna and Bolshoi Theatre, Moscow; tours in Europe, N. and S. America, Asia, Australia and Africa; numerous recordings; composed chamber music and orchestral music; Chair. Det danske Sangselskab; mem. Bd. Dirs. Danish-Finnish Soc.; Cross of Liberty (Finland); Kt. of White Rose (Finland); Kt. of Dannebrog (Denmark); Pro-Finlandia Medal; Hon. Cross for Arts and Sciences (Austria). *Publications:* Suomalainen laulajanaapinen (ABC for the Finnish singer) 1972. *Address:* Det Kgl. danske Musikkonservatorium, Copenhagen (Office); Österbrogade 158, DK 2100 Copenhagen, Denmark (Home). *Telephone:* 290731 and 03-190027.

BORG, Lars Göran, LIC.SC., DR.SC.; Swedish mathematician; b. 19 Nov. 1913, Kumla; s. of Eric J. Borg and Elna Peterson; m. Gunborg Sjölinder, M.D., 1939; two s. one d.; ed. Univ. of Uppsala. Research Prof., Univ. of Uppsala 1945-52; Prof. of Math. Royal Inst. of Tech., Stockholm 1953-76, Rector 1968-74; Pres Bd. for Educ. Org. for Teachers in Tech. 1964-67, Bd. Microwave Inst. Stockholm 1968-; Deputy, Board of L. M. Ericsson Telephone Co. 1972-; mem. Nat. Science Council 1961-67, Advisory Council of Bd. of Univ. Chancellor 1964-70, Swedish Bd. for Technical Development 1971-77, Royal Acad. of Eng. Sciences (Vice-Pres. 1972-74), Advisory Council to Wallenberg Foundation 1972-74, Swedish Math. Soc. (Pres. 1957-60), Swedish Operational Analysis Soc. (Pres. 1963), Swedish Soc. of Future Studies (Pres. 1971), Amer. Math. Soc., American Assoc. for the Advancement of Science, Bd. of SEFI, Brussels 1973-74, Bd. of Inst. for Applied Math. 1975-, Swedish UNESCO Comm. 1975-, several govt. cttees. on educ., research, industry, radio and television, etc.; Hon. LL.D. (Dundee); Commdr. Order of Polar Star. *Publications:* Über die Stabilität gewisser Klassen von linearen Differentialgleichungen 1944, Eine Umkehrung der Sturm-Liouvilleschen Eigenwertaufgabe 1945, Inverse Problems in the Theory of Characteristic Values 1947, Bounded Solution of a System of Differential Equations 1948, On a Liapounoff Criterion 1949, On the Completeness of some Sets of Functions 1949, etc. *Leisure interests:* technical constructions, building. *Address:* Sköldungagatan 2, 114 27 Stockholm (Office); 118 Alviksvagen, S-161 38 Stockholm-Bromma, Sweden (Home). *Telephone:* 23-25-20 (Office); 25-21-40 (Home).

BORG OLIVIER, Dr. George, LL.D.; Maltese politician; b. 5 July 1911, Valletta; ed. Lyceum and Royal Univ. of Malta; elected to Council of Govt. 1939, to Legis. Ass. 1947; Minister of Works and Reconstruction and Minister of Educ. 1950; Prime Minister and Minister of Works and Reconstruction 1950-55; Leader of Opposition 1955-58, 1971-76; Prime Minister and Minister of Economic Planning and Finance 1962-71, also Minister of Commonwealth and Foreign Affairs 1965-72; Hon. D.Litt.; Knight Grand Cross Order of St. Sylvester and Order of Pius IX (Vatican); Leader Nationalist Party 1950-77. *Address:* House of Representatives, Valletta, Malta.

BORGE, Victor; American entertainer; b. 3 Jan. 1909, Denmark; m. Sarabel Sgaper; two s. three d.; ed. Borgerdydskolen and Copenhagen Conservatoire, and in Berlin and Vienna under Frederic Lamond and Egon Petri. Concert pianist 1922-34; revue, theatre and film career as composer, actor and musical comedian 1934-; settled in U.S.A. 1940, U.S. citizen 1948; Order of Dannebrog, Order of Vasa (Sweden) 1972, Order of St. Olav (Norway) 1973. *Publication:* My Favourite Intervals 1974. *Leisure interest:* boating. *Address:* Field Point Park, Greenwich, Conn., U.S.A.

BORGEAUD, Maurice Camille; French metals executive; b. 5 Oct. 1909; ed. Ecole Polytechnique. Fmr. Vice-Pres. of USINOR (Union sidérurgique du Nord et de l'Est de la France), Pres., Dir.-Gen., Chair., Hon. Chair. 1973-; Vice-Pres. Denain Nord-Est Longwy, Pres. 1973-77, Vice-Pres. Admin. Council 1977-, Dir.-Gen. 1973-77; Officier Légion d'honneur. *Address:* Denain Nord-Est Longwy, 25 rue de Clichy, 75440 Paris, France.

BORGES, Jacobo; Venezuelan painter; b. 28 Nov. 1931; ed. Escuela de Artes Plásticas Cristóbal Rojas, Caracas and Ecole des Beaux Arts, Paris; mem. of Young Painters' Group and Illustrator of magazines and record covers while in Paris 1951-56, also exhibited in French Nat. Exhbns.; Prof. of Scenography and Plastic Analysis, Escuela de Artes Plásticas Cristóbal Rojas, Caracas 1958-65; Prof. of Scenography, Theatre School of Valencia and Dir. Experimental Art Centre, Univ. Central de Venezuela 1966-; one-man exhbns. in Caracas at Galeria Lauro 1956, Museo de Bellas Artes 1956, Galeria G 1963 and Galeria Techo 1965; represented in numerous group exhbns. including São Paulo Bienal 1957, 1963, 1965, Venice Biennale 1958, Brussels World Fair 1958, and Int. Exhbns. at Guggenheim Museum, New York 1964, 1965; Nat. Painting Prize 1963, Armando Reverón Bienal Prize 1965. *Major works:* La Lámpara y la Silla 1951, La Pesca 1957, Sala de Espera 1960, Todos a la Fiesta 1962, Ha Comenzado el Espectáculo 1964, Altas Finanzas 1965; series of Las Jugadoras and Las Comedoras de Helados 1965-66. *Address:* c/o Museo de Bellas Artes, Avenida los Caobos, Caracas, Venezuela.

BORGES, José Joaquim Almeida, LL.D.; Portuguese judge; b. 25 Oct. 1910, Celorico da Beira; s. of José Joaquim Borges and Ana da Conceição de Almeida; m. Maria da Graça Pimenta 1947; three s. one d.; ed. S. Pedro Coll., Coimbra Coll. and Univ., Lisbon Univ. Magistrate 1933-42; Judge, lower and appellate courts, also Judge for judicature in Flowers Island, Azores 1942-75; Pres. Supreme Court of Justice March 1975-. *Publications:* co-author of specialist law publs. *Leisure interest:* nautical sports. *Address:* Rua Conde Sabugosa no. 25, 7°, Lisbon, Portugal. *Telephone:* 894863.

BORGES, Jorge Luis; Argentine author and university professor; b. 24 Aug. 1899; ed. in Switzerland, Cambridge and Buenos Aires Univs. Municipal Librarian of Buenos Aires 1939-43; Dir. Nat. Library of Buenos Aires 1955-73; fmr. Prof. of English and North American Literature, Univ. de Buenos Aires; mem. Acad. Argentina de Letras; Hon. D. Litt. (Oxford) 1970, Dr. h.c. (Jerusalem) 1971; Premio de Honor, Prix Formentor 1961 (with Samuel Beckett), Fondo de las Artes 1963, Inter-American Literary Prize 1970, Alfonso Reyes Prize 1973; Hon. K.B.E. *Publications:* many short stories, poems and essays, including Luna de Enfrente, Cuaderno San Martín, Historia de la Eternidad, Antología Clásica de la Literatura Argentina, El Martin Fierro (with Margarita Guerrero), La Poesia Gauchesca, El Aleph, El Jardín de Senderos que se

bifurcan, Inquisiciones, Otras Inquisiciones, Historia Universal de la Infamia, Fervor de Buenos Aires, Ficciones, Labyrinthe, Libro de Cielo y del Infierno (poems) 1960, El Hacedor 1960, Antologia personal 1961, Elogia de la Sombra (poems) 1969, El Informe de Brodie (stories) 1971, Obra Poetica (autobiography). *Address:* Mexico 564, Buenos Aires, Argentina.

BORGNINE, Ernest; American actor; b. 24 Jan. 1917; ed. New Haven public schools. *Films include:* From Here to Eternity, Bad Day at Black Rock, Marty, Violent Saturday, Square Jungle, Three Brave Men, Hell Below, The Rabbit Trap, Man on String, Barabbas, Flight of the Phoenix 1966, The Oscar 1966, The Split, Ice Station Zebra, The Dirty Dozen 1968, Willard 1971, The Poseidon Adventure 1972, Emperor of the North 1972, Sunday in the Country 1974, Law and Disorder 1975, Convoy 1978; Acad. Award for Best Performance in Marty 1956. *Address:* CMA, 8899 Beverly Boulevard, Los Angeles, Calif. 90048, U.S.A.

BORK, Robert Heron, J.D.; American government official and lawyer; b. 1 March 1927, Pittsburgh; s. of Harry Philip Bork and Elizabeth Kunkle; m. Claire Davidson 1952; two s. one d.; ed. Univ. of Chicago; admitted to Illinois Bar 1953; Assoc., mem. Kirkland, Ellis, Houston, Chaffetz & Masters 1955-62; Assoc. Prof. Yale Law School 1962-65, Prof. of Law 1965-73, Chancellor Kent Prof. of Law 1977-; Solicitor-Gen. 1973-77; Acting Attorney-Gen. 1973-74. *Address:* Solicitor-General, Department of Justice, Washington, D.C. 20530 (Office); 1007 Turkey Run Road, McLean, Virginia 22101, U.S.A. (Home).

BORKH, Inge; Swiss soprano opera singer; b. 26 May 1921; ed. Drama School, Vienna, and Vienna Acad. Theatre performances (dancing, piano) in Vienna and Milan, then in Switzerland in German version of Konsul (Menotti); int. career 1951-, Bayreuth, Paris, Vienna, Edinburgh Festival; first visit to U.S.A. 1953; World Première of Irische Legende (Egk) 1955; appeared as Salome and Elektra, Carnegie Hall, New York 1958; Metropolitan Opera, N.Y. 1958; Bavarian Court Singer 1963; appeared at opening of Nationaltheater, Munich, in Die Frau ohne Schatten 1963; Grand Prix du Disque for Elektra, Antigone (Orff), and Schönberg's Gurrelieder; Reinhard Ring Award 1973. *Address:* Haus Weitblick, CH 9405 Wienacht, Switzerland. *Telephone:* Heiden 912091.

BORLAUG, Norman Ernest, PH.D.; American agricultural scientist; b. 25 March 1914, Cresco, Ia.; s. of Henry O. and Clara (Vaala) Borlaug; m. Margaret G. Gibson 1937; one s. one d.; ed. Univ. of Minnesota; with U.S. Forest Service 1938-39; Instructor, Univ. of Minn. 1941; Microbiologist, E. I. DuPont de Nemours Foundation 1942-44; Research Scientist, Wheat Rockefeller Foundation, Mexico 1944-60, Centro Internacional de Mejoramiento de Maíz y Trigo (Int. Maize and Wheat Improvement Center), Mexico 1964-; Leonard L. Klinck Lecturer, Agric. Inst. of Canada 1966; mem. Citizens' Comm. on Science, Law and Food Supply 1973-. Comm. on Critical Choices for America 1973-; Assoc. Dir. Rockefeller Found. 1964-; mem. Nat. Acad. of Sciences; Foreign mem. Royal Swedish Acad. of Agric. and Forestry 1971, Indian Nat. Science Acad. 1973; Hon. Foreign mem. Acad. Nacional de Agronomia y Veterinaria de Argentina, N. I. Vavilovi Acad. (U.S.S.R.); Hon. Fellow Indian Soc. of Genetics and Plant Breeding 1968; Hon. D.Sc. Punjab Agric. Univ. 1969, Royal Norwegian Agric. Coll. 1970, Mich. State Univ. 1971, Univ. of Florida 1973, and others; Medal of Freedom 1977 and numerous Mexican awards. *Leisure interests:* hunting, fishing, baseball, wrestling, football, golf. *Address:* International Maize and Wheat Improvement Center, Londres 40, Mexico City 6 (Office); Agustín Ahumada 310-F, Lomas de Chapultepec, Mexico 10, D.F., Mexico (Home).

BORMAN, Frank; American astronaut; b. 14 March 1928, Gary, Ind.; m. Susan Bugbee; two s.; ed. U.S. Military Acad.; pilot training, Williams Air Force Base, Arizona; assigned to various fighter squadrons in U.S. and Philippines; Instructor in Thermodynamics and Fluid Mechanics, U.S. Mil. Acad. 1957; Master's degree from Calif. Inst. of Tech. 1957; graduated from U.S. Air Force Aerospace Research Pilots School 1960; Instructor 1960-62; selected by NASA as astronaut Sept. 1962; Command Pilot Gemini VII 1965; Commdr. Apollo VIII spacecraft which made flight round the moon Dec. 1968; Deputy Dir. for Flight Operations, NASA, until May 1969; Field Dir. of a NASA Space Station Task Group 1969-70; Vice-Pres. Eastern Airlines Inc. 1970-74, Vice-Pres. for Eastern Operations 1974-75, Pres. 1975, Chair. of Board 1976-; NASA Exceptional Service Medal, Harmon Int. Aviation Trophy 1966, Gold Space Medal, Int. Aeronautics. Feb 1969. *Address:* Eastern Airlines Inc., International Airport, Miami, Fla. 33148, U.S.A.

BORN, Jorge; Argentine businessman; b. 24 July 1900; ed. Athenée, Royal Antwerp, Belgium, and Univ. de Bruxelles, Belgium; Dir. Bunge y Born S.A. 1926-, Pres. and Chair. 1956-; Vice-Pres. Molinos Río de la Plata S.A. 1951-, Bunge y Born Foundation 1964–; breeder of pedigree cattle (Hereford) and controls ownership of ranches in several Argentine provinces; Knight Order of Leopold, Officer Order of Crown (Belgium). *Address:* 25 de Mayo 501, Buenos Aires, Argentina.

BOROTRA, Jean (Robert); French civil engineer, company director and fmr. tennis player; b. 13 Aug. 1898, Biarritz; s. of Henry Borotra and Marguerite Revet; m. Mabel de Forest 1938 (divorced 1947); one s.; ed. Lycées Saint Louis and Michelet, Paris, Univ. de Paris and Ecole Polytechnique; Civil Engineer 1922; Commercial Man Satam. 1924-30, Dir. 1930-75; Commissar-Gen., Gen. Educ., and Sport in Marshal Pétain's Govt. 1940-42, deported by Gestapo 1942-45; Vice-Pres. French Lawn Tennis Assn. 1930-68, Hon. Pres.; Pres. Comm. Doctrine of Sport, High Cttee. of Sport, Paris 1962-68; Pres. Int. Lawn Tennis Fed. 1960-61, Vice-Pres. 1961-69, Hon. Vice-Pres. 1969-; Vice-Pres. Int. Council for Sport and Physical Educ. (ICSPE) 1960-68, Deputy Pres. 1968-76; Pres. Int. Cttee. for Fair Play; Pres. and Dir. several French and foreign cos.; winner of numerous lawn tennis prizes, including six Wimbledon Championships (two for singles, three for doubles, and one for mixed doubles), and mem. French Davis Cup Team 1922-47; Commdr. Légion d'honneur, Croix de guerre (1914-18, 1939-45); Hon. C.B.E. and several other foreign decorations. *Address:* 18 rue de Varize, Paris 16e (Office); 35 avenue Foch, Paris 16e, France (Home). *Telephone:* 224-44-02 (Office); 727-61-31 (Home).

BOROV, Todor; Bulgarian bibliographer and librarian; b. 1901, Lom; m. Haritina Ivanowa Peeva 1930; two s.; ed Sofia and Berlin Univs. Prof. in Library Science, Univ. of Sofia; Editor Bălgarska kniga (The Bulgarian Book) 1930, Yearbook of Bulgarian Bibliographical Inst. 1945-63. *Publications:* Knigi, biblioteki, bibliografija (Books, Libraries, Bibliography) 1941, Pătija kăm knigite (The Road to Books) 1942, Cehov i Bălgarija 1955, Bulgarische Bibliographie 1960, Die Bibliographie als Universitätslehrfach 1963, Ausbildung von Bibliothekaren 1964, Zivot ▪ knigi (Life with Books) 1973. *Address:* Zar Krŭm 15, Sofia, Bulgaria. *Telephone:* 87-52-40.

BOROVIK-ROMANOV, Viktor-Andrey Stanislavovich; Soviet physicist; b. 18 March 1920, Leningrad; m. Tatyana Petrovna Belikova 1947; one s.; ed. Moscow Univ; Research Assoc. Inst. of Physical Problems U.S.S.R. Acad. of Sciences 1947-48, Assoc. and Deputy Dir. 1956-; Research Assoc. Moscow Inst. of Measures and Measuring Instruments 1948-55; Inst. of Physico-Technical and Radio Measurements, U.S.S.R. Cttee. of Standards, Measures and Measuring Instruments 1955-56, Prof. Moscow Physico-Technical Inst. 1967-; Editor JETP Letters 1968-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-72, Academician 1972-. *Publications:* Works on experimental and theoretical physics. *Address:* S. I. Vavilov Institute of Physical Problems, 2 Vorobyevskoe Shosse, Moscow, U.S.S.R.

BOROVKOV, Aleksandr Alekseyevich; Soviet mathematician; b. 6 March 1931, Moscow; ed. Moscow Univ; Postgraduate, Research Assoc. Moscow Univ. 1954-60; Assoc. Head of Dept. Inst. of Math., Siberian Branch U.S.S.R. Acad. of Sciences 1960-; Lecturer, Head of Chair Novosibirsk Univ. 1961-, Prof. 1965-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966. *Publications:* Works on contiguous problems of theory probabilities. *Address:* Institute of Mathematics, Akademgorodok, Novosibirsk, U.S.S.R.

BORRELLI, Mario, M.SC.; Italian sociologist; b. 1922, Naples; s. of Gennaro Borrelli and Lucia Morvillo; m. Jilyan West 1971; one d.; ed. Posillipo Univ., School of States Archives, Naples, London School of Econs.; one of the founders of O.N.A.R.M.O., Naples 1946; founder of first J.O.C. in Naples 1947, of I.R.P., Naples 1948, of "Casa dello Scugnizzo", Naples 1950; Founder-Dir. Lo Scugnizzo (monthly magazine) 1950-; Founder Materdei Community Centre, Naples 1970; Pres. IPRI (Italian Peace Research Inst.). *Publications:* La Concezione Copernico Galileiana e la Filosofia di Tomaso D'Aquino 1961, La Relazione tra il Conservatorio dei Poveri di Gesù Cristo e l'Oratorio di Napoli 1961, Il Largo dei Girolamini 1962, A Streetlamp and the Stars 1963, Memorie Baroniane dell'Oratorio de Napoli 1963, Opere e Documenti sul Baronio Presso The British Museum Library 1964, I Documenti dell'Oratorio Napoletano 1964, Le Testimonianze Baroniane dell'Oratorio di Napoli, Documenti sul Baronio Presso The Bodleian Library, L'Epistolario del Giusto Calvino nei suoi Rapporti col Baronio 1965, L'Architetto Nencioni Dionisio Di Bartolomeo 1967, Le Costituzioni dell' Oratorio Napoletano 1968, Diario delle Baracche 1969, Unearthing the Roots of the Sub-Culture of the South Italian Sub-Proletariat 1969, Socio-political Analysis of the Sub-Proletarian Reality of Naples and Lines of Intervention for the Workers of the Centre 1973, Basic Concepts for Community Action in the Urban Sub-Proletariat 1974, Practical Directions for Intervention

in ■ Community Action in Favour of the Urban Sub-Proletariat 1974, Hypothesis of the Existence of a "Peripheral" Europe with consequent different types of Social Policy Intervention 1975, Exclusion from the Productive Process, Social Deviance and Mental Illness 1975, Alimentation and Directions of Social Intervention among the Neapolitan Sub-Proletariat 1975, Communication and Consciousness-Raising 1975, Socio-political Analysis of the Neapolitan Reality and Programme of Intervention for the Social Operators of the Centre 1976, Integration between Peace Research, Peace Education and Peace Action 1977, New Trends in the International Division of Labour and their Effects on the Conditions of Workers in Industrialized and "Third World" Countries 1977, Tourism as an Expression of Economic Subordination: Relationships between Emigration and Tourism 1977, Italian Compulsory School and Mental Retardation 1978. *Address:* Largo San Gennaro a Materdei 3A, Naples; Via Vecchia, S. Gennaro 100/A, Pozzuoli, Naples, Italy. *Telephone:* 34-22-59 (Office); 867-5701 (Home).

BORRIE, Wilfred David, O.B.E., M.A.; British demographer; b. 2 Sept. 1913, Waimate, New Zealand; s. of Peter and Isobella Borrie; m. Alice H. Miller 1941; one d.; ed. Waitaki Boys High School, Oamaru, New Zealand, Univ. of Otago, N.Z. and Cambridge Univ; Lecturer, Social History and Econs., Sydney Univ. 1944-46, Senior Lecturer 1946-47; Research Fellow, Research School of Social Sciences, Australian Nat. Univ. 1949-52, Reader 1952-57, Prof. and Head of Dept. of Demography 1957-68, Dir. Research School of Social Sciences 1968-73, Prof. of Demography 1973-; Vice-Pres. Int. Union for Scientific Study of Population 1961-63; Pres. Social Science Research Council of Australia 1962-64, Australian Council of Social Services 1963-64; Chair. Population Comm., UN 1965-69; Dir. Nat. Population Inquiry 1970-76; mem. Immigration Planning Council of Australia 1965-74, Australian Population and Immigration Council 1972-, Chair. Demographic Cttee. 1975-; Hon.D.Litt (Tas.). *Publications:* Population Trends and Policies 1947, Immigration 1948, Italians and Germans in Australia 1954, The Cultural Integration of Immigrants (Part I and General Editor) 1959, Australia's Population Structure and Growth (with G. Spencer) 1965, The Growth and Control of World Population 1970, Population Environment and Society 1973, Population and Australia (First Report of the Nat. Population Inquiry, 2 vols.) 1975. *Leisure interests:* surfing, tennis. *Address:* Research School of Social Sciences, Australian National University, P.O. Box 4, Canberra, A.C.T. (Office); 29 Norman Street, Deakin, A.C.T., Australia 2600 (Home). *Telephone:* 814114.

BORSOS, Miklós; Hungarian sculptor and graphic artist; b. 13 Aug. 1906, Nagyszeben; s. of Lajos Miklós Borsos and Erzsébet Mosolygó; m. Ilona Gabriella Kéry 1933; no c.; ed. Budapest Coll. of Fine Arts and self-taught in Italy and France; started ■ painter, switched to stone-modelling and copper engraving 1933; mem. Arts Council 1945; Prof. Budapest Coll. of Applied Arts 1946-60; Exhbns. Budapest 1957, Tihany 1965, Venice Biennale 1966, Zürich and Rome 1967; First Prize Carrara sculpture exhbn. 1959, Munkácsy Prize 1954, Kossuth Prize 1957, Merited Artist 1967; Labour Order of Merit, Golden Degree 1971, Eminent Artist 1972, "For Socialist Hungary" Award. *Leisure interest:* playing violin. *Address:* Romer Flóris-utca 53, Budapest II, Hungary. *Telephone:* 357-958.

BORSUK, Karol, PH.D.; Polish mathematician; b. 8 May 1905, Warsaw; s. of Marian and Zofia (née Maciejewska) Borsuk; m. Zofia Paczkowska 1936; two d.; ed. Warsaw Univ; Asst. lecturer, Warsaw Univ. 1929-35, Docent 1934-38, Assoc. Prof. 1938-46; Head of Topology Group in Math. Inst. of Polish Acad. of Sciences 1949-; Editor Dissertationes Mathematicae 1952-; Deputy Editor Fundamenta Mathematicae 1952-; mem. Editorial Staff Mathematical Monographs 1946-, Bulletin of Polish Acad. of Sciences 1953-; initiated and developed the theory of retracts, and the theory of shape; Head, Math. Seminary, Warsaw Univ. 1952-64; scientific worker (rank of Prof.) 1964-69, Prof. of Math., Polish Acad. of Sciences 1969-; Corresp. mem. Polish Acad. of Sciences 1952-56, mem. 1956-; Corresp. mem. Bulgarian Acad. of Sciences 1953-; Dr. honoris causa (Zagreb) 1976; State Prize (1st Class) 1955, 1972; A. Jurzykowski Foundation Prize 1973; Officer's Cross, Order of Polonia Restituta 1954, Commdr.'s Cross 1958, Order of Banner of Labour (1st Class) 1976; N. Copernicus Medal, Polish Acad. of Sciences 1975, Sierpinski Medal, Warsaw Univ. 1976, Comm. of Nat. Educ. Medal 1978, many other awards and prizes. *Publications:* Foundations of Geometry (Co-author) 1960, Theory of Retracts 1967, Multi-dimensional Analytic Geometry 1969, Theory of Shape 1975, about 150 publs. on topology. *Leisure interest:* antiquity. *Address:* Ul. Filtrowa 63 m. 18, 02-056 Warsaw, Poland. *Telephone:* 25-09-32.

BORTEN, Per; Norwegian agronomist and politician; b. 3 April 1913, Flà Gauldal; s. of Lars and Karen Borten; m. Magnhild Rathe 1948; three c.; ed. Norwegian Agricultural Univ; As. Head, Tech. Section, Provincial Agric. Admin., Sör-Tröndelag 1946-65; Chair. Flà Municipal Council 1945, Provincial Council, Sör-Tröndelag 1948; fmr. Head of Youth Movement of Agrarian Movement, Sör-Tröndelag; mem. Storting 1950-, Pres. Odelsting 1961-65; Chair. Senterpartiet 1955-67, Parl. Leader 1957; Prime Minister 1965-71; Deputy Chair. Housing Bank 1955-; mem. Council of Farmers' Bank 1965-; Chair. Council of United Life Insurance Cos. in Norway 1959-. *Address:* Storting, Oslo, Norway.

BORTOLUZZI, Paolo; Italian ballet dancer; b. 17 May 1938, Genoa; m. Jaleh Kerendi 1970; one s. one d.; studied ballet under Ugo Dell'Ara, Genoa 1954; joined Del Balletto Italiano, Milan 1957; Leone Massine's Festival de Nervi 1960; with Maurice Béjart's Ballet of the Twentieth Century 1960-72; Perm. Guest Artist, American Ballet Theater 1972, La Scala, Milan, Düsseldorf Opera, now Artistic Adviser and Choreographer La Scala, Milan; repertoire includes Romeo and Juliet, Les Sylphides, Giselle, The Sleeping Beauty, Orpheo, The Nutcracker, Cinderella, Swan Lake, Firebird, Nomos Alpha, Apollon Musagète, Albinoni Adagio, L'Après-midi d'un faune, Sheherazade, Spectre-de-la-Rose, as well as many avant-garde works, notably Béjart's Nijinsky: Clown of God, IXe Symphonie, Messe Baudelaire. *Address:* 16 avenue des Merles, 1150 Brussels, Belgium. *Telephone:* Brussels 6732958.

BOSCH, Baron Jean van den, G.C.V.O., LL.D.; Belgian diplomatist and banker; b. 27 Jan. 1910, Ghent; s. of Firmin and Anna de Volder; m. Helène Cloquet 1944; two d.; ed. Université Catholique de Louvain; Diplomatic Service 1934-; Sec., Peking 1937-40, Ottawa 1940; Chargé d'Affaires to Luxembourg Govt. in London 1944-46; Counsellor 1944, attached to Household of Prince Charles, Regent of Belgium, later served Cairo, Paris; Minister 1953; Consul-Gen., Hong Kong, Singapore and Saigon 1954; Amb. to Egypt and Minister to Libya 1955; Perm. Under-Sec. of State, Ministry of Foreign Affairs and Foreign Trade 1959, 1960-65; Amb. to Congo (Léopoldville) 1960-, to U.K. 1963-72; Perm. Rep. to Council of WEU 1966-72; Dir. Lloyds Bank Int. 1972-; Chair. LBI (Belgium) S.A. 1973-; numerous decorations. *Address:* Lloyds Bank International (Belgium) S.A., 2-4 rue Royale, 1000 Brussels (Office); 114 avenue Winston Churchill, B.1, 1180 Brussels, Belgium (Home). *Telephone:* 512-67-90 (Office); 347-29-09 (Home).

BOSCH, Juan; Dominican writer and politician; b. 1909; ed. La Vega and Santo Domingo; founded literary group Las Cuevas (The Caves); exile in Puerto Rico and Cuba, travelled extensively in Latin America 1937-61; founded Partido Revolucionario Dominicano 1939, Pres. until Oct. 1966; fmr. Prof. of Inst. of Political Science of Costa Rica; Pres. of Dominican Repub. Feb.-Sept. 1963 (deposed by mil. coup); unsuccessful candidate for Presidency 1966. *Publications:* Camino Real (Royal Path—short stories), Indios (Indians), La Mañosa (The Shrew—novel), Mujeres en la Vida de Hostos (Women in the life of Hostos), Hostos—El Sembrador (Hostos, the Sower), Dos Pesos de Agua (Two Pesos worth of Water), Ocho Cuentos (Eight Tales), La Muchacha de la Guaira (The Girl from La Guaira), Cuba, la Isla Fascinante (Cuba, the Fascinating Island), Cuentos de Navidad (Christmas Stories), Life of Bolívar, Cuentos escritos en el Exilio (Tales written in Exile), Trujillo: Causas de una tiranía sin Ejemplo (Trujillo: Causes of a Tyranny without Equal), The Unfinished Experiment: Democracy in the Dominican Republic 1965, David 1966, Pentagonism 1969.

BOSCO, Giacinto; Italian lawyer and politician; b. 25 Jan. 1905, Santa Maria Capua Vetere (Caserta); m. Rosa Sagnelli 1929; two s. one d; Prof. of Int. Law, Rome Univ.; fmr. Editor Rivista di Studi Politici Internazionali, Florence; Editor Rivista di Studi Europei, Rome; fmr. Legal Adviser, Ministry of Foreign Affairs; mem. Senate 1948-, Vice-Pres. 1958-60; Under-Sec. of State for Defence 1953-58, Minister for Educ. 1960-62, of Justice 1962-63, of Labour and Social Security 1963-64; Chief, Italian Del. at UN 1965, 1968-69, Minister of Labour and Social Security 1966-68, Finance 1968-69, Special Political Affairs 1969-70, without Portfolio March-July 1970, Posts and Telecommunications 1970-1972; Vice-Pres. Consiglio superiore della Magistratura 1972-76; Judge, Court of Justice of the European Communities 1976-; Christian Democrat. *Address:* Court of Justice of the European Communities, Centre Européen, Plateau de Kirchberg, P.O. Box 1406 (Office); Boulevard Joseph II, n°12, Luxembourg (Home).

BOSE, Vivian, B.A., LL.B.; Indian jurist; b. Ahmedabad; s. of Lalit Mohan Bose; m. Irene Mott 1930; one s. one d.; ed. Dulwich Coll., England, and Pembroke Coll., Cambridge; called to Bar, Middle Temple, London 1913; practised at Nagpur Bar, India 1913-36; Principal, Univ. Coll. of Law 1924-30; Govt. Advocate and Standing Counsel to Govt. of Cen. Provinces and Berar 1930-36; Additional Judicial Commr., Nagpur 1931-36; Puisne Judge, Nagpur High

Court 1936-49, Chief Justice, Nagpur High Court 1949-51; Puisne Judge, Supreme Court of India 1951-56, retd. 1956, ad. hoc. Judge 1958-59; mem. Int. Comm. of Jurists 1958-, Pres. 1959-66, Hon. Pres. 1966-; Chief Commr. for India, Boy Scouts Assn. 1948-49, Nat. Commr. 1959-62. *Leisure interests:* photography, motoring. *Address:* Vishranti Farm, Doddakallasandra Post, Bangalore, 562 141, India. *Telephone:* 40419.

BOSKOVSKY, Willi; Austrian conductor; b. 16 June 1909; ed. Akademie für Musik, Vienna; Conductor of New Year Concerts of Vienna Philharmonic Orchestra 1954-; Founder of Vienna Octet; Leader of Philharmonic Orchestra of Vienna State Opera; soloist in chamber music; numerous decorations including Mozart Medal, Salzburg and Vienna, Österreichisches Ehrenkreuz, Kreisler Prize. *Address:* 1030 Vienna 3, Jacquingasse 51, Austria. *Telephone:* 72-6459.

BOSQUET, Alain, M.A. (pseudonym of Anatole Bisk); French writer and critic; b. 28 March 1919, Odessa, Russia; s. of Alexander Bisk and Berthe Bisk (née Turiansky); m. Norma E. Caplan 1954; ed. Athéenée d'Uccle, Univ. Libre de Bruxelles and Univ. de Paris à la Sorbonne; served with Belgian, French and U.S. Armies 1940-45; served with Allied Control Council, Berlin, then with Dept. of State 1945-51; Prof. of French Literature, Brandeis Univ., U.S.A. 1958-59; Prof. of American Literature, Univ. of Lyons 1959-60; Columnist, Combat 1953-74; columnist, Le Monde 1961-, Le Matin de Paris 1978-; Vice-Pres. Acad. Mallarmé; mem. juries for Theophraste-Renaudot and Max Jacob Poetry Prizes; Prix Guillaume Apollinaire for Langue morte 1952, Prix Sainte-Beuve for Premier Testament 1957, Prix Max Jacob for Deuxième Testament 1959, Prix Fémina-Vacaresco for Verbe et vertige 1962, Prix interallié for La confession mexicaine 1965, Grand Prix de Poésie de l'Académie Française for Quatre Testaments et autres poèmes 1967, Grand Prix du Roman for Une mère russe. *Publications:* poems: A la mémoire de ma planète 1948, Langue morte 1951, Quel royaume oublié 1955, Premier Testament 1957, Deuxième Testament 1959, Maître objet 1962, Selected Poems, translated by Samuel Beckett, Charles Guenther, and Edouard Roditi 1963, 100 notes pour une solitude 1970, Notes pour un Amour 1972, Penser contre soi 1973, Notes pour un pluriel 1974, Le livre du doute et de la grâce 1977, de cheval applaudit 1977; essays: Saint-John Perse, Pierre Emmanuel, Emily Dickinson, Walt Whitman, Anthologie de la poésie américaine 1956, 1935 jeunes poètes américaines 1961, Verbe et vertige (on contemporary poetry) 1961, Entretiens avec Salvador Dali 1967, Dorothea Tanning, Le Middle West 1967, Les Américains sont-ils adultes? 1969, Roger Caillois 1971, En compagnie de Marcel Arland 1973, Pas d'accord 1974, Soljenitsyn 1974, Une mère russe; novels: La grande éclipse 1952, Ni Singe, ni Dieu 1953, Le mécréant 1960, Un besoin de malheur 1963, Les petites eternités 1964, La confession mexicaine 1965, Les tigres de papier 1968, L'amour à deux têtes 1970, Chicago oignon sauvage 1971, Monsieur Vaudeville 1973, L'amour bourgeois 1974, Les bonnes intentions 1975. *Leisure interests:* Pre-Columbian art, postage stamps. *Address:* 32 rue de Laborde, Paris 8e, France. *Telephone:* 387-96-76.

BOSSARD, André, D.IUR.; French international police official; b. 18 June 1926, St. Ouen; s. of Charles and Aline (Sirugue) Bossard; m. Francine Agen 1956; two d.; ed. Lycée Louis le Grand, Paris Univ.; trained as barrister 1947-49; joined police service with rank of Commissaire de Police 1950, Commissaire Principal 1958, legal documentation officer, then Police Legal Officer, rank of Commissaire Divisionnaire 1968; Tech. Adviser to Office of Dir. Central de la Police Judiciaire 1970; Head of a Div. Int. Criminal Police Org. (INTERPOL) 1971-77; Contrôleur Général de la Police Nat. 1977; Sec.-Gen. INTERPOL 1978-; Chevalier Légion d'honneur. *Leisure interest:* painting. *Address:* Criminal Police Organization (INTERPOL), 26 rue Armengaud, 92210 Saint-Cloud, France (Office). *Telephone:* 602-55-50 (Office).

BOT, Theodorus H.; Netherlands politician and diplomatist; b. 1911, Dordrecht; s. of Laurens Bot and Maria Theresia Frederica Creemers; m. Elisabeth W. van Hal 1936; seven c.; ed. State Univ., Utrecht; Civil servant 1936-59; East Asiatic Affairs Bureau Indonesia 1936-42; Japanese P.O.W. Burma-Thailand 1942-45; General Political Adviser The Hague and Djakarta 1946-54; Dir. Western Co-operation Foreign Affairs The Hague 1954-59; State Sec. for Interior (Netherlands New Guinea Affairs) 1959-63; Minister of Educ., Arts and Sciences 1963-65; Minister without Portfolio for the Developing Countries 1965-67; Amb. to Canada 1968-73, to Austria 1973-76; Hon. Adviser Foreign Affairs Ministry; Knight Commdr. Order Netherlands Lion, Knight Grand Cross St. Olav of Norway; Catholic People's Party. *Publications:* articles in various magazines. *Leisure interests:* music, skiing, mountaineering, riding, literature. *Address:* Ruychrocklaan 384, The Hague, Netherlands. *Telephone:* 070-28-08-06.

BOTELHO, Carlos; Portuguese painter; b. 18 Sept. 1899, Lisbon; s. of Carlos and Josefina Botelho; m. Beatriz Dos Santos 1922; one s. one d.; ed. Lisbon and Paris Acads. of Fine Arts; decorated Portuguese pavilion, Colonial Exhbn., Paris 1931, Universal Exhbn., Paris 1937; rep. XXV Venice Biennale 1950, São Paulo Biennale 1951-53, 1955, 1957, Brussels Int. Exhbn. 1958; exhibited at 50 Years of Modern Art Exhbn. Brussels and Art and Work Exhbn. Charleroi 1958; organized in conjunction with British Council Henry Moore Exhbn. in Lisbon 1959; retrospective exhbn. Lisbon 1959; "Promotion of Architecture" Exhbn., Barcelona 1960; Rep., XXX Biennale, Venice 1960; Exhbn., Madrid 1961; one-man Exhbn., New York 1963, Lisbon 1964, New York 1965; Exhbns. São Paulo, London, Rio de Janeiro 1965, Madrid 1966; Gulbenkian Exhbn., Brussels, Paris, Madrid 1967; itinerant exhbn. in major cities of Brazil 1970; Bertrand Russell Centenary Exhbn., London 1972; Grand Prix, Paris Int. Exhbn., Sousa Cardoso Prize 1939, Columbano Prize 1940, S. Paulo Biennale, Prix d'Acquisition 1951, Mention d'honneur 1953, Hallmark Award Prix, New York 1952; Silver Medal Brussels Exhbn 1958; Gulbenkian Prize, Lisbon 1961. *Leisure interest:* playing the violin. *Address:* Atelier Buzano, Parede, Portugal. *Telephone:* 2471667.

BOTERO; Colombian artist; b. 19 April 1932, Medellín; s. of David and Flora Botero; m. Cecilia Botero 1964; four c.; first group exhbn., Medellín 1948; first one-man exhbn., Galería Leo Matiz, Bogotá 1951; studied at Acad. San Fernando and El Prado Museum, Madrid 1952; visited Paris and Italy and studied art history with Roberto Longhi, Univ. of Florence 1953-54; lived in Mexico 1956; one-man exhbn. Pan American Union, Washington, D.C. 1957, Colombia 1958-59; lived in New York 1960-; first one-man exhbn. in Europe, Baden-Baden, Munich 1966; visited Italy and Germany 1967, studied work of Dürer; travelling retrospective exhbn. of 80 paintings in five German museums 1970; one-man exhbn. Hanover Gallery, London 1970; paintings in public collections in U.S.A., Germany, Spain and S. America; Guggenheim Nat. Prize for Colombia 1960. *Address:* 5 boulevard du Palais, Paris 4e, France. *Telephone:* 0330674.

BOTHA, Matthys Izak, B.A., LL.B.; South African diplomatist; b. 1913, Bloemfontein; s. of Johannes H. J. Botha and Anna M. J. Botha (née Joubert); m. Hester le Roux (née Bosman) 1940; two s.; ed. Selborne Coll., East London and Univ. of Pretoria. Dept. of Finance 1931-44; Dept. of Foreign Affairs 1944-, Washington 1944-51, New York 1951-54; Head of Political Div., Dept. of Foreign Affairs, Pretoria 1955-58; Minister to Switzerland 1959-60; Minister, London 1960-62; Perm. Rep. to UN 1962-70; Amb. to Canada 1970-73, to Italy and Panama 1973-76, also accred. to Costa Rica and El Salvador 1973-74, to U.K. 1977-79. *Leisure interests:* boating, skiing, golfing. *Address:* c/o Ministry of Foreign Affairs, Pretoria, South Africa.

BOTHA, Michiel Coenraad; South African politician; b. 14 Dec. 1912, Lindley, O.F.S.; m. Lorraine Gouws 1940; five s. two d.; ed. Univs. of Stellenbosch, Pretoria and Cape Town; teacher, Transvaal schools 1935-36; Lecturer, Pretoria Tech. Coll. 1937-43; Sec. Afrikaanse Taal-en Kultuurvereniging 1943-53; mem. Parl. 1953-; later Deputy Minister of Bantu Admin. and Devt.; Minister of Bantu Admin. and Devt., and Minister of Bantu Educ. 1966-77; National Party. *Address:* P.O. Box 384, Pretoria 0001, South Africa.

BOTHA, Pieter Willem, M.P.; South African politician; b. 12 Jan. 1916, Paul Roux district, O.F.S.; m. Elize Rossouw 1943; five c.; ed. Univ. of Orange Free State; mem. of Parl.; Chief Sec. Cape Nat. Party 1948-58, Deputy Minister of the Interior 1958-61; Minister of Community Devt., Public Works and Coloured Affairs 1961-66, of Defence 1965-, of Nat. Security 78-; Prime Minister Sept. 1978–; Leader Nat. Party in Cape Province 1966-. *Leisure interests:* shooting, hunting game. *Address:* Libertas, Bryntirion, Pretoria, South Africa.

BOTHA, Roelof Frederik, B.A., LL.B.; South African diplomatist; b. 27 April 1932; ed. Volkskool, Potchefstroom, Univ. of Pretoria; joined Dept. of Foreign Affairs 1953; served with diplomatic missions in Europe 1956-62; mem. S. African legal team in S.W. Africa case, Int. Court of Justice, The Hague 1963-66, 1970-71; Agent of S. African Govt., Int. Court of Justice 1965-66; Legal Adviser Dept. of Foreign Affairs 1966-68, Under-Sec. and Head S.W. Africa and UN sections 1968-70; mem. Parl. for Wonderboom 1970-74, for Westdene 1977-, served on various select Parl. cttees. 1970-74; Sec. Foreign Affairs Study Group of Nat. Party's mems. of Parl. 1974; Amb. and Perm. Rep. to UN 1974-77; Amb. to U.S.A. 1975-77; Minister of Foreign Affairs 1977-; mem. S. African Del. to UN Gen. Assembly 1967-69, 1971, 1973-74; National Party. *Address:* House of Assembly, Cape Town, South Africa.

BOTHA, Hon. Stephanus Petrus, B.COM.; South African politician; b. 5 May 1922, Lusaka, N. Rhodesia; s. of D. P. Botha; m. Martina Roos; two s. three d.; ed. Paarl Boys High School; joined Dr. Anton Rupert's Tech. Industrial Investment Org., became financial organizer; estab. Soutpansberg Regional Devt. Soc. 1957, Chair. and Hon. Pres.; M.P. for Soutpansberg; Chair. Nat. Party's Land Group; Sec. Water Affairs Group; Deputy Sec. Study Group on Bantu Affairs; mem. Bantu Affairs Comm. 1966-; mem. Exec. Cttee. of Nat. Party in Transvaal; Deputy Minister of Water Affairs 1966-68: Minister of Water Affairs and of Forestry 1968-76, of Labour and Mines 1976-79, of Manpower Utilization June 1979-. Dir. Volkskas Ltd., Rondalia Ltd., Alt. Trustee Dagbreek Trust. *Address:* Ministry of Manpower Utilization, Pretoria, South Africa.

BOTHEREAU, Robert; French trade unionist; b. 22 Feb. 1901. Metal worker; Sec. State Workers' Trade Union, Orleans 1926-28; Sec.-Gen. Loiret Département Union 1928-33; Sec.-Gen. Confed. of Labour (C.G.T.) 1933-48; Sec.-Gen. Confed. of Labour—Force Ouvrière (C.G.T.F.O.) 1947-64; mem. French Econ. and Social Council 1948-63; mem. Gen. Council Banque de France 1963-72, Counsellor of State 1964-67. *Address:* 21 rue du Puits de Roussy, 45190 Beaugoney, France. *Telephone:* (38) 44-52-55.

BOTT, Raoul, D.SC.; American (naturalized) mathematician; b. 24 Sept. 1923, Budapest, Hungary; s. of Rudolph and Margit (Kovacs) Bott; m. Phyllis H. Aikman 1947; one s. three d.; ed. McGill Univ. and Carnegie Inst. of Technology; mem. Inst. for Advanced Study, Princeton 1949-51, 1955-57; Instructor in Math., Univ. of Mich. 1951-52, Asst. Prof. 1952-55, Prof. 1957-59; Prof. of Math. Harvard Univ. 1959-; Higgins Prof. of Math. 1968-; Editor Topology, Annals of Mathematics 1958-59, American Journal of Mathematics 1969; mem. Nat. Acad. of Sciences, American Math. Soc., American Acad. of Arts and Sciences; Fellow, Quincy House 1969-; Veblen Prize, American Math. Soc. 1964 (Vice-Pres. 1973-75). *Leisure interests:* music, swimming, skiing. *Address:* Mathematics Department, Harvard University, Science Center, 1 Oxford Street, Cambridge, Mass. 02138 (Office); 77 Kirkstall Road, Newtonville, Mass. 02160, U.S.A. (Home). *Telephone:* B14-7960 (Home).

BOTTOMLEY, Sir James Reginald Alfred, K.C.M.G., M.A.; British diplomatist; b. 12 Jan. 1920, London; s. of Sir Cecil Bottomley and Alice T. Bottomley (née Robinson); m. Barbara E. Vardon 1941; two s. (and one deceased) two d.; ed. King's Coll. School, Wimbledon and Trinity Coll., Cambridge; served in British Army 1940-46; joined Dominions Office 1946 (now Foreign and Commonwealth Office); served in South Africa 1948-50, Pakistan 1953-55, U.S.A. 1955-59, Malaysia 1963-67; mem. British Nat. Export Council 1970-71, British Overseas Trade Board 1972, Cttee. on invisible exports 1970-72; Amb. to South Africa 1973-76; Perm. Rep. to UN Office and other orgs. in Geneva 1976-78 (retd.). *Leisure interests:* gardening, reading, golf. *Address:* Chiltern Rise, Aldbury, Tring, Herts., England.

BOTTRALL, Francis James Ronald, O.B.E., K.ST.J., F.R.S.L.; British poet and literary historian; b. 2 Sept. 1906, Camborne, Cornwall; s. of Francis John Bottrall and Clara Jane Rowe; m. 1st Margaret F. Saumarez-Smith 1934, 2nd Margot Pamela Samuel 1954; one s.; ed. Redruth County School and Pembroke Coll., Cambridge; Lecturer in English, Helsinki Univ. 1929-31; Commonwealth Fund Fellowship Princeton Univ. U.S.A. 1931-33; Johore Prof. of English Language and Literature Raffles Coll. Singapore 1933-37; Asst. Dir. and Prof. of English Literature British Inst. Florence 1937-38; Sec. London Univ. School of Oriental and African Studies 1939-45; seconded to Air Ministry, Priority Officer 1940; British Council Rep. Sweden 1941-44, Italy 1945-50; Controller Educ. Div. British Council 1950-54; Rep. Brazil 1954-56, Greece 1957-59. Japan 1959-61; Chief, Fellowships and Training Branch, FAO of UN 1963-65; Syracuse Int. Poetry Prize 1954; Grand Officer of Order of Merit of Republic of Italy 1973, Kt. of Malta 1976. *Publications:* The Loosening and Other Poems 1931, Festivals of Fire 1934, The Turning Path 1939, T. S. Eliot: Dikter i Urval 1942, Farewell and Welcome 1945, Zephyr Book of English Verse 1945, Selected Poems 1946, The Palisades of Fear 1949, Adam Unparadised 1954, Collected Poems 1961, Rome (Art Centres of the World) 1968, Day and Night 1974, Poems 1955-1973 1974. *Leisure interests:* music, travel, watching sport. *Address:* via IV Fontane 16, 00184 Rome, Italy. *Telephone:* 48-9989.

BOTVINNIK, Mikhail Moiseyevich, D.SC.; Soviet chess player; b. 17 Aug. 1911, Repino (near Leningrad); s. of Moisey and Serafina Botvinnik; m. Gajane Ananova 1935; one d.; ed. Leningrad M. I. Kalinin Polytechnic Inst; Chess Champion of U.S.S.R. 1931, 1933, 1939, 1941, 1944, 1945, 1952; World Champion 1948-57, 1958-60, 1961-63; Chess Grandmaster of U.S.S.R. 1935; Senior Scientific Assoc. All-Union Scientific Research Inst. of Electrical Energy 1955-; mem. CPSU, 1940-; Int. Grand Master 1950; Honoured Master of Sport of U.S.S.R. 1945, Order of Lenin, Order of Red Banner of Labour, Order of Honour (twice) and other decorations. *Publications:* Selected Games (1926-46) 1951, Soviet School of Chess 1951, Algorithms of the Game of Chess 1968. *Address:* Flat 154, 3 ja Frunzenskaja W. 7, Moscow G-270, U.S.S.R. *Telephone:* 2421586.

BOUABID, Maati; Moroccan politician. Minister of Justice 1977–; Prime Minister of Morocco March 1979; mem. Union nationale des forces populaires (UNFP). *Address:* Office of the Prime Minister, Rabat, Morocco.

BOUDA, Cyril; Czech artist; b. 14 Nov. 1901, Kladno; ed. Prague Coll. of Arts and Crafts, Acad. of Fine Arts (AVU), Prague; Asst., AVU 1929-35; teacher, Coll. of Tech., Prague 1932-35; Prof. of Drawing and Graphic Art, Pedagogical Faculty of Charles Univ., Prague; mem. SČUG Hollar (Assen. of Czech Graphic Artists) Artists' Discussion Group, Union of Czech Visual Artists; Silver Medal, Paris Exhbn. of Decorative Arts 1925, Hon. Diploma, Int. Competition of Illustrated Books, New York 1935, of Int. Exhbn., Warsaw 1936, Grand Prix, Paris Exhbn. of Art and Technique 1937, Prize for animated cartoon at 5th Int. Festival of Films for Children, Venice 1953, State Prize 1954, Artist of Merit 1961, M. Majerová Prize 1970, Prize of the Czechoslovak Writers' Publishing House 1974, National Artist 1976. *Oil Paintings include:* Pink Cottage 1934, Jizera Valley 1940, Still Life with Chess Board 1942, Eva, Masks, Vltava at Podbaba 1943, Distance 1944, Happiness 1945, In the Waves, Oleanders 1947; illustrations for about 700 books; more than 1,300 graphic works include: Parents 1935, Sweets with an Orchid 1939, Susan, Plumlov Château 1941, Masks 1943, Fireplace, Crayfish 1944, Self-Portrait, Prague 1948, Peace, Reader 1951, Brno 1962, Trio 1969, Lithographic Still Life 1971; designed stage scenery, postage stamps, tapestries, stained glass; 27 one-man shows in Czechoslovakia, one in Hungary; participated in 19 exhbns. abroad by SČUG Hollar. *Address:* Pedagogical Faculty, Charles University, Prague, Czechoslovakia.

BOUEY, Gerald Keith, B.A.; Canadian banker; b. 2 April 1920, Axford, Sask.; s. of J. A. Bouey; m. 1945; one s. one d.; ed. Queen's Univ., Kingston, Ont.; joined Research Dept., Bank of Canada 1948, Asst. Chief 1953-56, Deputy Chief 1956-62; Chief 1962-65, Adviser to the Govs. 1965-69, Deputy Gov. 1969-71, Senior Deputy Gov. Jan. 1972-Jan. 1973, Gov. Feb 1973-. *Leisure interest:* golf. *Address:* 234 Wellington Street, Ottawa (Office); 79 Kamloops Avenue, Ottawa, Canada (Home). *Telephone:* 563-8330 (Office); 733-5710 (Home).

BOULADOUX, Maurice; French trade unionist; b. 16 July 1907; Accountant, textile factory 1922-23; Founder, Constitution of Young Christian Trade Unionists, Pres. of Paris Region 1929; Sec.-Gen. French Confed. of Christian Workers 1937, 1948-53, Pres. 1953-61; Head Buyer, Chemical Industry 1940-45; Pres. Int. Fed. of Christian Trade Unions 1961-73 (now called World Confed. of Labour—WCL); mem. Admin. Council, ILO 1960-63; Vice-Pres. Econ. and Social Cttee. of European Econ. Community and Euratom 1958-73; Counsellor of State 1964-68; mem. Conseil de l'Ordre national du Mérite 1974; Admin. Banque Française du Commerce Extérieur; Commdr. de la Légion d'honneur.
[Died 8 November 1977.]

BOULANGER, Nadia (Juliette); French composer, conductor and music teacher; b. 16 Sept. 1887; ed. Paris Conservatoire; Hon. Prof. Paris Conservatoire, Dir. and Prof. American Conservatory of Music, Fontainebleau 1949-; Maître de Chapelle of H.H. the Prince of Monaco; compositions include orchestral and instrumental pieces and songs; mem. American Acad. of Arts and Sciences; Dr. h.c. (Oxford, Leeds, Newcastle, and Harvard); Grand Officier Légion d'honneur, Commdr. Ordre des Arts et des Lettres, Commdr. St. Charles, Commdr. Polonia Restituta, Ordre de Léopold (Belgium), Ordre de St. Cyrille et St. Méthode (Bulgaria), Hon. K.B.E. *Address:* 3 place Lili-Boulanger, 75009 Paris, France. *Telephone:* 874-57-91.

BOULANGER, Paul, M.SC., M.D.; French professor of biochemistry; b. 21 Nov. 1905, Roubaix; m. Renée Brochen 1933; two s. one d.; ed. Univ. of Lille; Asst. in Biochem., Univ. of Lille (later Univ. of Lille II) 1931, Assoc. Prof. 1939, Prof. 1942-77, Hon. Prof. 1977–; Dir. Research Unit for Protein Chem., Inst. Nat. de la Santé et de la Recherche médicale 1961-78; engaged in research in amino acid metabolism, polypeptid and protein structure 1932-77; mem. Nat. Acad. of Medicine; Commdr. Légion d'honneur, Ordre nationale du Mérite, Ordre des Palmes académiques. *Publications:* Medical Biochemistry 1940, General Biochemistry 1959; many papers and reviews in biochemical journals. *Address:* 93 avenue Foch, 59700 Marcq-en-Baroeul, France. *Telephone:* (20) 72-28-73.

BOULDING, Kenneth Ewart, M.A.; American university professor; b. 18 Jan. 1910, Liverpool, England; s. of William C. Boulding and Elizabeth Ann Boulding (née Rowe); m. Elise Biorn-Hansen 1941; four s. one d.; ed. Liverpool Collegiate School, New Coll., Oxford, and Univ. of Chicago; Commonwealth Fellow 1932-34; Asst. Edinburgh Univ. 1934-37; Instructor, Colgate Univ., U.S.A. 1937-41; Economist, L.N. 1941-42; Prof. Fisk Univ. 1942-43; Assoc. Prof. Iowa State Coll. 1943-46; Angus Prof. of Political Economy and Chair. of Dept., McGill Univ. 1946-47; Prof. Iowa State Coll. 1947-49; Prof. of Econs., Univ. of Michigan 1949-68; Prof. of Econs. and a Programme Dir. Inst. of Behavioral Science, Univ. of Colorado 1968-; Pres. American Econ. Assn. 1968, Distinguished Fellow 1969; Fellow, Center for Advanced Study of Behavioral Science, Stanford, Calif. 1954-55; Fellow, American Acad. Arts and Sciences, American Philosophical Soc.; mem. Nat. Acad. of Sciences; numerous hon. degrees; John Bates Clark Medal, American Econ. Assn. 1949, Prize for Distinguished Scholarship in the Humanities 1962. *Publications:* Economic Analysis 1941 (fourth edn. 1966), The Economics of Peace 1945, The Naylor Sonnets 1945, A Reconstruction of Economics 1950, The Organizational Revolution 1953, The Image 1956, Principles of Economic Policy 1958, The Skills of the Economist 1958, Conflict and Defense 1962, The Meaning of the Twentieth Century 1964, The Impact of the Social Sciences 1966, Beyond Economics 1968, Economics as a Science 1970, A Primer on Social Dynamics 1970, The Prospering of Truth (1970 Swarthmore Lecture) 1970, Peace and the War Industry (ed.) 1970, Readings in Price Theory (ed. with W. G. Stigler) 1952, Linear Programming and the Theory of the Firm (ed. with W. A. Spivey) 1960, Disarmament and the Economy (ed. with Emile Benoit) 1963, Economic Imperialism (ed. with T. Mukerjee) 1972, Redistribution to the Rich and the Poor (ed. with Marin Pfaff) 1972, The Appraisal of Change (in Japanese) 1972, Kenneth E. Boulding/Collected Papers Vols. I and II (ed. Fred Glahe) 1971, Vols. III-V (ed. Larry Singell) 1973-75, Transfers in an Urbanized Economy (ed. with Martin and Anita Pfaff) 1973, The Economy of Love and Fear: ■ Preface to Grants Economics 1973, Sonnets from the Interior Life and Other Autobiographical Verse 1975, The Social System of the Planet Earth (co-author) 1977. *Leisure interests:* poetry, sketching, water-colours. *Address:* Institute of Behavioral Science, University of Colorado, Boulder, Colo. 80309, U.S.A. *Telephone:* (303) 492-7526.

BOULEZ, Pierre; French composer and conductor; b. 26 March 1925, Montbrison; s. of Léon Boulez and Marcelle Calabre; ed. Paris Conservatoire; studied with Messiaen, Vaurabourg-Honegger and Leibowitz; Dir. of Music to Jean-Louis Barrault theatre co. 1948; aided by Barrault and Madeleine Renaud Barrault he founded the Concert Marigny which later became the Domaine Musicale, Paris; Prin. Guest Conductor Cleveland Symphony Orchestra 1968; Prin. Conductor BBC Symphony Orchestra 1971-75; Musical Dir. New York Philharmonic 1971-77; Dir. Inst. de Recherches et de Coordination Acoustique/Musique 1975-; has conducted concerts at Amsterdam, the Donaueschingen Festival and elsewhere. *Works:* First Piano Sonata 1946, Sonata for Two Pianos 1946, Sonatina for Flute and Piano 1946, Le Visage Nuptial (5 poems of René Char for 2 solo voices, female choir and orch.) 1946-50, Second Piano Sonata 1948, Le Soleil des Eaux (2 poems of René Char for voice and orch.) 1948, Livre pour Quattuor (string quartet) 1949, Symphonie Concertante (piano and orch.) 1950, Le Marteau sans Maître (cantata for voice and instruments to texts by René Char, also ballet 1965) 1955, Structures (2 pianos) 1964, Third Piano Sonata 1957-58, Improvisations sur Mallarmé (soprano and chamber ensemble) 1958, Doubles (orch.) 1958, Poésie pour Pouvoir (orch.) 1958, Tombeau (soprano and orch.) 1959, Pli selon Pli 1958-62, Figures—doubles-prismes 1964/74, Eclats and Eclats Multiples 1965, Domaines 1968-69, Cummings ist der Dichter 1970, Explosante Fixe 1973, Rituel 1974. *Publications:* Penser la musique aujourd'hui 1966, Relevés d'apprenti (essays) 1967, Par volonté et par hasard 1975. *Address:* 31 rue St. Merri, 75004 Paris, France; Postfach 22, 757 Baden-Baden, Federal Republic of Germany.

BOULIN, Robert; French lawyer and politician; b. 20 July 1920; s. of Daniel Boulin and Marcelle Martineau; m. Colette Lalande 1947; one s. one d; Lawyer 1946-; U.N.R. (Union pour la Nouvelle République) Deputy 1958-61, 1962-; mem. Cen. Cttee. U.N.R.; Sec. of State for Repatriation Jan.-Sept. 1962; Sec. of State for the Budget 1962-68; Minister of Civil Service May-June 1968, of Agriculture 1968-69, of Public Health 1969-72, for Parl. 1972-73, 1976-77; Minister-Delegate for Econ. and Finance 1977-78; Minister of Labour and Participation April 1978-; Mayor of Libourne 1959. *Address:* 14 rue de Géraud, 33500 Libourne; 32 boulevard Maillot, 92200 Neuilly-sur-Seine, France. *Telephone:* Libourne 51-08-89.

BOULT, Sir Adrian C., Kt., C.H., M.A., D.MUS., F.R.C.M.; British musician; b. 8 April 1889; ed. Westminster School, Christ Church, Oxford, and Leipzig Conservatorium; fmr. Conductor British Symphony Orchestra; has conducted in London, Vienna, Munich, Prague, Barcelona, Boston, Brussels, Zürich, Paris and New York; Dir. Birmingham City Orchestra 1924-30; Dir. of Music BBC 1930-42; Conductor BBC Symphony Orchestra until 1950; Chief Conductor London Phil. Orch. 1950-57, Birmingham Symphony Orchestra 1959-60; on staff of Royal Coll. of Music 1919-30, 1962-66; Vice-Pres. Council of Royal Coll. of Music 1963-; Hon. mem. Royal Acad. of Sweden; Hon. LL.D. (Birmingham, Liverpool), Hon. Mus. Doc. (Edinburgh and Cambridge), Hon. R.A.M., Hon. G.S.M., Hon. D. Litt. (Oxford) 1979; Gold Medallist, Royal Phil. Soc. 1944. *Publications:* Thoughts on Conducting 1963, My Own Trumpet 1973. *Address:* Fox Yard Cottage, West Street, Farnham, Surrey, GU9 7EX, England. *Telephone:* 0252-715881.

BOULTING, John Edward; British film producer, director and writer; b. 21 Nov. 1913, Bray; s. of Arthur Boulting and Rose Bennet; twin brother of Roy Boulting (q.v.); ed. Reading School; started film making 1937, Joint Man. Dir. Charter Film Productions Ltd. with Roy Boulting 1973-; mem. Board, British Lion Films 1958-73, Man. Dir. 1966-73, resgnd. *Films include:* Pastor Hall, Thunder Rock, Fame is the Spur, Brighton Rock, The Guinea Pig, Seven Days to Noon, The Magic Box, Private's Progress, Brothers in Law, I'm all Right Jack, Heaven's Above!, The Family Way, There's a Girl in My Soup, Soft Beds, Hard Battles. *Leisure interests:* cricket, tennis, falling off horses, reading, talking, listening. *Address:* Charter Film Productions, 8A Glebe Place, Chelsea, London SW3 5LB (Office); Warfield Dale House, Warfield Dale, Nr. Bracknell, Berkshire, RG12 6HR, England (Home). *Telephone:* 01-352 6838 (Office); 03447-3404 (Home).

BOULTING, Roy; British film producer and director; b. 21 Nov. 1913; s. of Arthur Boulting and Rose Bennet; twin brother of John Boulting (q.v.); m. Hayley Mills (*q.v.*) 1971 (divorced 1977); m. (5th) Sandra Payne 1978; ed. Reading School; formed independent film production co. with John Boulting 1937; war service, RAC, finishing ■■ Capt.; Dir. British Lion Films Ltd. 1958-72; Joint Man. Dir. Charter Film Productions Ltd. 1973-. *Films produced include:* Brighton Rock 1947, Seven Days to Noon 1950, Privates Progress 1955, Lucky Jim 1957, I'm All Right Jack 1959, Heaven's Above! 1962. *Films directed include:* Pastor Hall 1939, Thunder Rock 1942, Fame is the Spur 1947, The Guinea Pig 1948, High Treason 1951, Singlehanded 1952, Seagulls over Sorrento, Crest of the Wave 1953, Josephine and Men 1955, Run for the Sun 1955, Brothers in Law 1956, Happy is the Bride 1958, Carlton-Browne of the FO 1958-59, I'm All Right Jack 1959, The Risk 1960, The French Mistress 1960, Suspect 1960, The Family Way 1966, Twisted Nerve 1968, There's ■ Girl in My Soup 1970, Soft Beds, Hard Battles 1974, The Number 1978. *Play:* Favourites 1976. *Address:* Charter Film Productions Ltd., 8A Glebe Place, Chelsea, London, SW3 5LB, England (Office). *Telephone:* 01-352 6838 (Office).

BOUMAH, Augustin; Gabonese politician; b. 7 Nov. 1927, Libreville; m.; ten c.; ed. French Inst. of Overseas Studies, College Moderne de Libreville, Ecolé des Cadres Supérieurs, Brazzaville; Directeur de cabinet, Ministry of Labour 1963; fmr. Dir. Gabonese School of Admin.; mem. Exec. Cttee., Parti Démocratique Gabonais (PDG); Minister of Youth, Sports and Cultural Affairs Jan.-April 1967, of Justice and Keeper of the Seals April-Sept. 1967, of the Interior and Justice 1967-68, of Finance and the Budget 1968-72; Minister of State at Presidency in charge of Planning and Devt. and Land Administration 1972, 1972-75; Pres. Supreme court 1975–. *Address:* Supreme Court, B.P. 1043, Libreville, Gabon.

BOUN OUM NA CHAMPASSAK, Prince; Laotian politician; b. 11 Dec. 1911, Champassak; ed. Lycée Chasseloup Laubat, Saigon; mem resistance movement against Japanese 1941-45; Pres. Del. of 1946 for Franco-Lao Co-operation; renounced right of succession to South Laotian throne in interests of Lao Unity; Prime Minister 1949-50; Pres. Nat. Ass. which negotiated independence 1949; Pres. Revolutionary Cttee., Anti-Communist League of Savannakhet after coup d'état of 1960; Prime Minister, Pres. Nat. Ass, 1961-62; Del. of H.R.H. for Gen. Inspection of the Kingdom 1962; Minister of Religion 1966-72.

BOURASSA, Robert, M.A.; Canadian politician and economist; b. 14 July 1933, St. Pierre Claver, Mercier; s. of Aubert Bourassa and Adrienne Courville; m. Andrée Simard 1958; one s. one d.; ed. Jean-de-Brébeuf Coll., Montreal, Montreal Univ., Univ. of Oxford and Harvard; admitted to Quebec Bar 1957; Fiscal Adviser to Dept. of Nat. Revenue, Lecturer in Econs. and Public Finance, Ottawa Univ. 1960-63; Sec., Dir. of Research, Bélanger Comm. on Public

Finance 1963-65; Special Adviser to Fed. Dept. of Finance; mem. Nat. Ass. for Mercier 1966-76; Pres. Liberal Party Political Comm., mem. Party's Strategy Cttee.; Prof. of Public Finances, Montreal and Laval Univs.; Leader Liberal Party of Quebec 1970-77, Financial Critic; Prime Minister of Quebec 1970-76; Minister of Finance 1970, of Intergovt. Affairs 1971-72. *Address:* c/o National Assembly, Quebec City, P.Q., Canada.

BOURBON, H.R.H. Prince Alfonso de, Duke of Cadiz and Anjou; Spanish diplomatist; b. 20 April 1936, Rome, Italy; s. of H.R.H. Jaime de Bourdon, Infante of Spain, and H.R.H. Emanuela de Dampierre, Duke and Duchess of Segovia and Anjou; m. María del Carmen Martinez-Bordiu 1972; two s.; ed. Switzerland, Italy, France, Univs. of Deusto, Valladolid and Madrid; with Banco Exterior de España, Vice-Pres. Italian Chamber of Commerce 1960-69; Amb. to Sweden 1970-73; Pres. Inst. of Hispanic Culture 1973-Lieut. Spanish Air Force; Grand Cross Order of Isabel la Católica, G.C. Polar Star (Sweden), and other decorations. *Leisure interests:* skiing, tennis, golf, flying, scuba diving. *Address:* Avenida de Miraflores, 34 Ciudad Puerta de Hierro, Madrid 35, Spain.

BOURDET, Claude; French journalist; b. 28 Oct. 1909, Paris; s. of Edouard Bourdet and Catherine Pozzi; m. Ida Adamoff 1935; two s. one d.; ed. Coll. de Normandie, Lycée Hoche (Versailles), Fed. Inst. of Technology (Zürich); attached to Cabinet of Minister of Nat. Economy 1936-39; Man. La Manda (soap and oil firm) 1940-41; mem. Dir. Cttee. "Combat" Movement and Man. of secret paper 1942; mem. Conseil Nat. de la Résistance; arrested and imprisoned in Oranienburg and Buchenwald concentration camps 1944; Vice-Pres. Consultative Ass. 1945; Dir.-Gen. Radiodiffusion Française 1945; Man. Combat 1947-50; Founder and Editor L'Observateur (now Le Nouvel Observateur) 1950-63; founder Centre d'Action des Gauches Indépendantes 1952; mem. Municipal Council of Paris 1959-71, Nat. Cttee. Parti Socialiste Unifié 1960-63; Pres. Mouvement pour le Désarmement, la Paix, la Liberté, Int. Confed. for Disarmament and Peace; Foreign Editor Témoignage Chrétien 1967–; Compagnon de la Libération. *Publications:* Le schisme Yougoslave 1950, Les chemins de l'unité 1964, A qui appartient Paris 1972, L'aventure incertaine 1975, L'Europe Truquée 1977. *Address:* 47 avenue d'Iéna, 75116 Paris, France. *Telephone:* 720-88-75.

BOURGEOIS, Paul, D.PHIL.; Belgian astronomer; b. 13 Feb. 1898, Brussels; m. Louise Dauby 1925; one s. one d.; ed. Univ. Libre, Brussels. Asst. Belgian Royal Observatory 1924, Assoc. Astronomer 1936, Astronomer 1938, Dir. 1947, Hon. Dir. 1963; Hon. Prof. Université Libre, Brussels 1954; Hon. Past Pres. Abstracting Board, Int. Council of Scientific Unions; Vice-Pres. Centre Nat. de calcul mécanique; corresp. mem. Bureau des Longitudes; mem. Int. Astronomical Union; fmr. mem. Conseil Nat. de la Politique scientifique; Vice-Pres. Inst. pour la Recherche Scientifique en Afrique Centrale; Assoc. mem. Académie Royale des Sciences d'Outre-Mer; Quinquennial Prize for Statistics 1929-33; Officier, Ordre de Léopold, Commdr., Ordre de la Couronne, Grand Officier Ordre de Léopold II. *Publications:* Numerous scientific papers on meridan astronomy, astrometry, astrophysics and stellar statistics. *Leisure interests:* reading, travel. *Address:* 31 rue Paul Hankar, 1180 Brussels, Belgium. *Telephone:* 02-743058.

BOURGES, Yvon, L. en D.; French overseas administrator and politician; b. 29 June 1921, Pau; ed. Univ. de Rennes. Chef de Cabinet to Prefect of the Somme 1944-45, of Bas-Rhin 1945-47; Sub-Prefect of Erstein 1947-48; with Ministry of Overseas Territories 1948, Dir. de Cabinet, High Comm. in French Equatorial Africa 1948-51, in French West Africa 1951-56; Gov. Upper Volta 1956-58; High Commr. French Equatorial Africa 1958-60, Brazzaville 1960-61; Chef de Cabinet, Ministry of Interior 1961-62; Deputy for Ille-et-Vilaine 1962-75; Mayor of Dinard 1962-67, 1971-; Sec. of State for Scientific Research 1965-66, for Information 1966-67, for Co-operation 1967-68, for Foreign Affairs 1968-72; Minister of Commerce 1972-73, of Defence 1975-; mem. Comm. de développement économique régionale (CODER) 1965-; Chevalier Légion d'honneur. *Address:* 98 avenue Pasteur, 35400 Saint-Malo, France.

BOURGÈS-MAUNOURY, Maurice; French politician; b. 19 Aug. 1914; active with Resistance Movement 1941-44; mem. Constituent Assembly 1946; Radical Socialist Deputy for Haute Garonne 1956-58; Sec. of State (Budget) in Schuman Cabinet 1947-48; Sec. of State (Armed Forces) in Marie and Schuman Cabinets July-Sept. 1948; returned to Govt. as Minister of Public Works July 1950; Sec. of State, Présidence du Conseil 1950-51; Deputy Minister of Nat. Defence, Pleven Cabinet Aug. 1951-Jan. 1952; Minister of Armaments, Faure Cabinet Jan.-Feb. 1952; French Del. to 7th Session of the UN 1952; Minister of Finance, Mayer Cabinet Jan.-July 1953; Minister of the Interior until 1956, of Nat. Defence 1956-57; Prime Minister 1957; Minister of Interior 1957-58; Pres. Société industrielle et financière de l'Artois et des Mines de Kali; Chevalier Légion d'honneur, etc. *Address:* 94 boulevard Flandrin, 74116 Paris, France.

BOURGET, Maurice; Canadian engineer and politician; b. 20 Oct. 1907, Lévis, P.Q.; s. of Phillipe Bourget and Elmire Gosselin; m. Marguerite Cleary 1949; two d.; ed. Acad. Commerciale, Quebec, Ecole Polytechnique, Montreal. Mem. of Parl. 1940-62; Parl. Asst. to Minister of Public Works 1953-57; Speaker of Senate 1963-66; mem. Privy Council 1966-; Dir. Hall Corpn. of Canada; mem. Eng. Inst. of Canada, Professional Eng. Corpn. of Quebec; Liberal. *Leisure interests:* reading, golf, fishing. *Address:* The Senate, Ottawa, Canada.

BOURGUIBA, Habib Ben Ali; Tunisian Politician; b. 3 Aug. 1903, Monastir; m. 1st Mathilde Lorrain 1927 (divorced 1961, deceased 1976), one s.; m. 2nd Mrs. Wassila Ben Ammar 1962; ed. Univ. of Paris, Ecole Libre des Sciences Politiques; active in politics and journalism since 1928; mem. Destour Party 1921, broke away and formed Neo-Destour Party (outlawed by the French) 1934; imprisoned by the French 1934-36 and 1938-43; escaped to Middle East 1945, travelled to promote Tunisian independence 1945-49, world tour during Tunisian negotiations with French Govt. 1951; arrested 1952, placed under surveillance at Tabarka (Jan.), imprisoned at Remada (March), in solitary confinement, Ile de la Galite (May) until 1954; released 1954, under surveillance in France 1954-55, during negotiations; returned to Tunisia following Franco-Tunisian Agreements 1955; Pres. Tunisian Nat. Assembly, Prime Minister, Pres. of the Council, Minister of Foreign Affairs, of Defence 1956-57, Head of Cabinet 1957-; Pres. of Tunisia July 1957-, proclaimed Pres. for Life March 1975; Pres. Neo-Destour Party (Pres. for Life 1974); Ordre du Sang, Ordre de la confiance en diamants. *Publications:* Le Destour et la France 1937, La Tunisie et la France 1955. *Address:* Présidence de la République, Tunis, Tunisia.

BOURGUIBA, Habib, Jr., L ès D.; Tunisian diplomatist; b. 9 April 1927, Paris, France; s. of Pres. Habib Bourguiba (q.v.); m. Neila Zouiten 1954; two s. one d.; ed. Collège Sadiki, Law School, France. Collaborated in nat. liberation movement, especially 1951-54; lawyer in training, Tunis 1954-56; Counsellor, Tunisian Embassy, Washington 1956-57; Amb. to Italy 1957-58, to France 1958-61, to U.S.A. 1961-63, to Canada 1961-62, to Mexico 1962-63; Perm. Rep. to UN 1961-62; Sec.-Gen. to Presidency of Repub. 1963-64; in charge of Dept. of Youth and Sports, Dept. of Tourism, Nat. office of Artisanship and Information Dept. 1963-64; elected mem. Nat. Assembly Nov. 1964; Sec. of State for Foreign Affairs 1964-70; Minister, Asst. to Pres. Dec. 1977-; Pres., Gen. Man. Banque de Développement de l'Economie de la Tunisie. *Leisure interests:* staying home with family, golf. *Address:* Villa Al Mahroussa, Avenue Salammbo, Tunis, Tunisia. *Telephone:* 281-727 (Home).

BOURJAILY, Vance, B.A.; American novelist; b. 17 Sept. 1922, Cleveland, Ohio; s. of Monte Ferris and Barbara Webb Bourjaily; m. Bettina Yensen 1946; one s. two d.; ed. Handley High School, Va. and Bowdoin Coll., Maine. American Field Service 1942-44; U.S. Army 1944-46; Publisher, Record, New Castle, Va. 1947-48; Staff Writer, San Francisco Chronicle 1949-50; Editor Discovery 1951-53; Instructor, Mexico City Coll. 1953; Dramatic Critic, The Village Voice 1955-56; freelance TV writer 1956-57; Visiting Lecturer, Univ. of Iowa 1957-59, Prof. 1961-; Specialist, U.S. State Dept. 1960. *Publications:* novels: The End of My Life 1947, The Hound of Earth 1953, The Violated 1957, Confessions of a Spent Youth 1960, The Man Who Knew Kennedy 1967, Brill Among the Ruins 1970, Now Playing at Canterbury 1976; non-fiction: The Unnatural Enemy 1963, Country Matters; 1973; plays: Time is ■ Dancer 1950, The Quick Years 1956, Confessions 1971. *Leisure interests:* politics, mycology, conservation. *Address:* Redbird Farm, Route One, Iowa City, Ia., U.S.A. *Telephone:* (319) 683-2767.

BOURLIÈRE, François (Marie Gabriel), M.D., L. ès S., SC.D.; French biologist and university professor; b. 21 Dec. 1913, Roanne, Loire; s. of Gabriel Bourlière and Marie Deroche; m. Jacqueline Butez 1942; two s. one d.; ed. Univ. of Paris. Research Asst., School of Medicine, Paris Univ. 1942; Prof. of Physiology, School of Medicine, Rouen 1946-49; Prof. of Gerontology, Univ. of Paris 1959-; Editor of La Terre et la Vie and Gerontology; Pres. Int. Union for Conservation of Nature and Natural Resources 1963-66; Convener Int. Biological Programme (Terrestrial Ecology) 1964-69; Dir. Nat. Foundation of Gerontology 1968-; Pres. Société Nat. de Protection de la Nature 1972-; Pres. special Cttee. for the Int. Biological Programme (ICSU) 1969-74; Chair. Int. Co-ordination Cttee., Man and the Biosphere Program, UNESCO 1971-75; Chevalier, Légion d'honneur 1970, Commdr. Order of Golden Ark (Neth-

erlands) 1974, Officer, Ordre national du Mérite 1978. *Publications:* Eléments d'un guide bibliographique du naturaliste (2 vols.) 1940-41, Formulaire technique de zoologiste 1941, Vie et moeurs des mammifères 1951, Le monde des mammifères 1954, The Natural History of Mammals 1954, Sénescence et sénilité 1958, Introduction à l'écologie des ongulés 1960, The Land and Wildlife of Eurasia 1964; co-author; Traité de zoologie, Vol. 15 Oiseaux, and Vol. 17 Mammifères, Précis de gérontologie 1956, Problèmes de production biologique 1967, Progrès en gérontologie 1969, Problèmes d'échantillonnage des peuplements animaux terrestres 1969, Problèmes déchantillonéage des péuplements animaux aquatiques 1971, Zoologie, Vol. IV, Pléiade 1974, La démographie des populations sauvages de vertébrés 1975, Structure et fonctionnement des écosystèmes 1978. *Leisure interest:* wildlife photography. *Address:* 15 avenue de Tourville, 75007 Paris, France. *Telephone:* 551-44-83.

BOURNE, Geoffrey Howard, D.SC., D.PHIL.; British professor and anatomist; b. 17 Nov. 1909, Perth, W. Australia; s. of Walter Howard Bourne and Mary Anne Bourne; m. Maria Nelly Golarz 1965; two s. by previous marriage; ed. Univs. of W. Australia and Melbourne. Biologist, Australian Inst. of Anatomy 1934-36; Biochemist, Commonwealth of Australia Advisory Council on Nutrition 1936-38; Beit Memorial Fellow for Medical Research at Oxford 1938-41; Mackenzie Mackinnon Research Fellow of the Royal Coll. of Surgeons and Royal Coll. of Physicians 1941-43; Demonstrator in Physiology, Oxford 1940-43 and 1946-47; in charge of Research and Devt., Rations and Biological Problems, Special Forces in S.E. Asia (Major) 1944; Nutritional Adviser, British Mil. Admin. of Malaya (Lieut.-Col.) 1945-46; Reader in Histology, Univ. of London, London Hospital 1947-57; Prof. and Chair. Anatomy Dept., Emory Univ., Ga., U.S.A. 1957-61; Dir. Yerkes Regional Primate Research Center, Emory Univ. 1961-. *Publications:* include Starvation in Europe 1943, The Mammalian Adrenal Gland 1949, An Introduction to Functional Histology 1955, 1961, Division of Labour in Cells 1961, Structure and Function of Muscle 1963, Muscular Dystrophy in Man and Animals 1963, Atherosclerosis and its Origins 1963, International Review of Dietetics Vols. 1-27 continuing, Structure and Function of Nervous Tissue Vols. 1-4, The Chimpanzee Vols. 1-6, The Ape People, Primate Odyssey 1974, The Gentle Giants, The Gorilla Story 1976. *Leisure interests:* water skiing, scuba diving, running. *Address:* Yerkes Primate Center, Emory University, Atlanta, Ga. 30322, U.S.A. *Telephone:* 378-0104.

BOUSTANY, Fouad Ephrem, D. ès L; Lebanese scholar; b. 15 Aug. 1906; ed. Deir-el-Kamar Coll. and Univ. St. Joseph, Beirut. Teacher in Arab Literature, Islamic Insts. and History of Arab Civilization, Institut des Lettres Orientales 1933-45; Dir. Ecole Normale 1942-53; Prof. of Near Eastern History and Civilizations, Inst. des Sciences Politiques 1945-55; Prof. of Arab Literature, Islamic Philosophy and Arab History, Acad. Libanaise des Beaux-Arts 1947-53; Rector Univ. Libanaise 1953-70; Sec.-Gen. Lebanese Nat. Comm. for UNESCO 1948-55; Sec.-Gen. Int. Comm. for Translation of Classic Works 1949-, Acad. Libanaise; Dr. h.c. Univs. of Lyon 1957, Austin, Texas 1958, Georgetown, Washington, D.C. 1958; Lebanese, French, Vatican and other decorations. *Publications:* Au temps de l'Emir 1926, Ar-Rawae (critical studies) 1927, Pourquoi 1930, Histoire du Liban sous les Chéhab of Emir Haïdar Chéhab (with Dr. A. Rustem) 1933-35, Bagdad, capitale des lettres abbassides 1934, Le rôle des chrétiens dans l'établissement de la Omayyade 1938, Le style orale chez les arabes préislamiques 1941, Al-Magani al Haditah (5 vols.) 1946-50, Cinq jours à travers la Syrie 1950, Les dits des mois 1973, Encyclopaedia Arabica (10 vols.) 1956-73. *Address:* Université Libanaise, Beirut, Lebanon.

BOUSTEAD, Col. Sir John Edmund Hugh, K.B.E., C.M.G., D.S.O., M.C. and bar; British fmr. political agent; b 14 April 1895, Ceylon; s. of Lawrence Twentyman and Ethel Margaret (née Alers-Hankey) Boustead; ed. Royal Naval Colls., Osborne and Dartmouth, H.M.S. Cornwall and Oxford Univ. Midshipman and Acting Sub-Lieut. 1913-15; Royal Navy, German East and German South-West Africa and Cape Station; S. African Brigade, Egypt, Western Desert and France 1915-19; Capt. S. African Brigade attached to Gen. Denikin's Army in South Russia 1919; apptd. Gordon Highlanders, Malta, Constantinople, Chanak and Eastern Thrace 1921-24; led Kanchenjunga Expedition 1926; Sudan Camel Corps 1924-29; Gen. Staff S.D.F. Khartoum 1930; Commdr. Sudan Camel Corps 1931; mem. Everest Expedition 1933; retd. from Army to Sudan Political Service 1935; District Commr. Western District, Darfur 1935-40; recalled to service 1940; raised and trained Sudan Frontier Battn. S.D.F. and commanded it Jan.-July 1941; served in Central Abyssinia; S.D.F. Brigade in Eritrea 1943; commd. 2nd S.D.F. Brigade 1945; recalled to Political Service Aug. 1945; Resident Adviser to the Hadhramaut States and British Agent Eastern Aden Protectorate 1949-58; Devt. Sec., Muscat 1958-61; Political Agent, Abu Dhabi 1961-65; several foreign orders; F.R.G.S. *Publications:* The Wind of Morning (autobiography) 1971. *Leisure interests:* mountaineering, riding, sailing. *Address:* c/o The Chartered Bank, Al Ain, Abu Dhabi, United Arab Emirates; and Naval and Military Club, 94 Piccadilly, London, W.1, England.

BOUTALEB, Abdelhadi; Moroccan politician and educationist; b. 23 Dec. 1923, Fez; m. Touria Chraïbi 1946; two s. one d.; ed. Al Qarawiyin Univ. Prof. of Arabic History and Literature, and Tutor to Prince Moulay Hassan and Prince Moulay Abdallah; Foundermem. Democratic Party of Independence 1944-51; campaigned, through the Party, for Moroccan independence, and for this purpose attended UN Session, Paris 1951, and Negotiating Conf. at Aix-les-Bains 1955; Minister of Labour and Social Affairs in Bekkai Govt. 1956; Chief Editor of journal Al-Rai-Alaam 1956-61; Amb. to Syria Feb 1962; Sec. of State, Ministry of Information Nov. 1962, Ministry of Information, Youth and Sports Jan. 1963; Interim Minister in Charge of Mauritania and Sahara Nov. 1963; Minister of Justice 1964-67, of Nat. Educ. and Fine Arts 1967; Minister of State 1968; Minister of Foreign Affairs 1969-70; Pres. Chamber of Reps. 1970-71; Prof. of Constitutional Law and Political Insts., Rabat Law Univ. 1974; Amb. to U.S.A., 1975-77; Adviser to H.M. Hassan II Oct. 1977-78, Tutor to Crown Prince Sidi Mohamed 1978-; Minister of State in Charge of Information 1978-; Commdr. of the Throne of Morocco, Grand Cordon of the Repub. of U.A.R., and other decorations. *Publications:* many cultural and literary works. *Leisure interests:* sports, music, reading. *Address:* Ministry of State in Charge of Information, Rabat, Morocco.

BOUTEFLIKA, Abdul Aziz; Algerian politician; b. 2 March 1937, Melilla; ed. Morocco. Major, Nat. Liberation Army and Sec. of Gen. Staff; mem. Parl. for Tlemcen 1962-; Minister of Sports 1962-63, of Foreign Affairs 1963-79; Counsellor to the Pres. March 1979-; mem. F.L.N. Political Bureau 1964-; mem. Revolutionary Council 1965-; led negotiations with France 1963-66, for nationalization of hydrocarbons 1971; leader of dels. to many confs. of Arab League, OAU 1968, Group of 1977 1967, Non-aligned countries 1973, 7th Special Session of UN Gen. Assembly 1975, Int. Conf. on Econ. Co-operation, Paris 1975-76; Pres. 29th UN Gen Assembly 1974. *Address:* Ministry of Foreign Affairs, Algiers, Algeria.

BOUTIN, Bernard Louis, PH.B.; American banker; b. 2 July 1923, Belmont, N.H.; s. of Joseph L. Boutin and Annie E. (Laflam) Boutin; m. Alice M. Boucher 1945; six s. five d.; ed. St. Michael's Coll., Winooski, Vermont, and Catholic Univ. of America, Washington, D.C. Pres. and Treas., Boutin Insurance Agency Inc., Laconia, New Hampshire 1948-63; Proprietor, Boutin Real Estate Co., Laconia 1955-63; Mayor of Laconia 1955-59; Deputy Admin., Gen. Services Admin., Washington D.C. Feb.-Nov. 1961; Admin. of Gen. Services 1961-64; Exec. Vice-Pres. Nat. Assn. Home Builders 1964-65; Admin. of Small Business Admin. 1966-67; Deputy Dir. Office of Econ. Opportunity 1965-66; Exec. Sanders Assoc. Inc. 1967-69; Chair. N.H. State Board of Educ. 1968-69; mem. Nat. Highway Safety Comm. 1969-70; Democratic Candidate for Gov. of New Hampshire 1958, 1960; Pres. St. Michael's Coll. 1969-75; Exec. Vice-Pres. Burlington Savings Bank (Vt.) 1975-76, Pres., Treas., Trustee 1976-; numerous awards; Hon. LL.D., St. Michael's Coll.; Hon. Ph.D., Franklin Pierce Coll.; Hon. L.H.D., Univ. of New Hampshire. *Leisure interests:* golf, fishing. *Address:* 30 Andrews Avenue South, Burlington, Vt. 05401, U.S.A. *Telephone:* (802) 655-2000.

BOUTOS, Ioannis; Greek politician; b. 1925, Athens; m. Maria V. Sourrapa 1957; three s.; ed. Univ. of Athens, London School of Econs. Mem. Parl. 1950, re-elected 1956, 1961, 1963, 1964; Under-Sec. of Co-ordination 1961-63, 1967; Under-Sec. to Prime Minister; Minister of Commerce 1974-75; Alt. Minister for Co-ordination 1975-76; Minister of Agric. 1976-77, of Finance 1977-78, of Agric. 1978-; mem. Interparl. European Comm. for assn. of Greece with EEC. *Address:* Ministry of Agriculture, Athens, Greece.

BOUTROS, Fouad; Lebanese lawyer and politician; b. 1920, Beirut; m. Tania Shehade 1953; one s. two d.; ed. Coll. des Frères, Beirut. Judge, Civil and Mixed Commercial Court, Beirut 1944-47; Judge Mil. Tribunal and Court Lawyer 1947-50; Govt. Lawyer 1951-57; Minister of Nat. Educ. and of the Plan 1959-60; mem. Chamber of Deputies 1960-; Deputy Speaker, Chamber of Deputies 1960-61; Minister of Justice 1961-64; Vice-Pres. of the Council, Minister of Educ. and Defence 1966-67; Vice-Pres., Council of Ministers, Minister of Foreign Affairs and of Tourism Feb.-Oct. 1968; Deputy Prime Minister, Minister of Defence and Foreign Affairs Dec. 1976-; numerous decorations. *Address:* Sursock Street, Fouad Boutros Building, Beirut, Lebanon (Home). *Telephone:* 230715, 239407, 297790 (Office; 334110 (Home).

BOUZIRI, Najib; Tunisian diplomatist; b. 1925; ed. Paris Univ. and Inst. d'Etudes politiques; joined Néo-Destour Party (now Destour Socialist Party) 1941, mem. Cen. Cttee. 1964-; practised law in France; mem. Tunisian del., autonomy negotiations 1954-55; served with Home and Foreign Ministries 1955-56; Chargé d'affaires, Paris 1956; Chef de Cabinet, Foreign Ministry 1957-58; Amb. to Italy 1958-61, to Fed. Repub. of Germany 1961-64; Sec. of State for P.T.T. Feb.-Nov. 1964; 2nd Vice-Pres. Nat. Assembly 1964-65; Amb. to U.S.S.R. 1965-70, concurrently to Poland 1967; Amb. to Belgium and Luxembourg 1970-72, to Morocco 1972-73, to Algeria 1973-75, to Spain Feb. 1975-; Leader, Tunisian del. to confs. on Maritime Law, Geneva 1960, Diplomatic Relations, Vienna 1961, Consular Relations, Vienna 1963; Chair. Admin. and Budgetary Cttee. of UN Gen. Assembly 1965. *Address:* Embassy of Tunisia, Plaza Alonso Martínez 3, Madrid 4, Spain.

BOVET, Daniel, DR.SC.; Italian physiologist; b. 1907, Neuchâtel, Switzerland; s. of Pierre Bovet and Amy Babut; m. Filomena Nitti 1938; one s.; ed. Univ. of Geneva. Asst. in Physiology, Univ. of Geneva 1928-29; Asst. Inst. Pasteur, Paris 1929-39, Dir. of Laboratory 1939-47; Dir. of Laboratories of Therapeutical Chemistry, Istituto Superiore di Sanità, Rome 1947-64; Prof. of Pharmacology, Univ. of Sassari 1964-71; fmr. Prof. of Psychobiology, Univ. of Rome; Dir. Laboratory of Psychobiology and Psychopharmacology, Consiglio Naz. delle Ricerche 1969-75; mem. Accad. Naz dei Lincei; Foreign mem. Royal Soc. (U.K.); Nobel Prize for Physiology and Medicine 1957; Grand Officer of the Order of the Italian Repub.; Hon. Doctorates Palermo, Geneva, Rio de Janeiro, etc. *Publications:* Structure chimique et activité pharmacodynamique des médicaments du système nerveux végétatif (with F. Bovet-Nitti) 1948, Curare and Curare-like Agents (with F. Bovet-Nitti and G. B. Marini-Bettolò) 1959, Controlling Drugs (with R. H. Blum and J. Moore), 1974. *Address:* Laboratorio di Psicobiologia, Via Reno 1, 00198 Rome (Office); Piazza San Apollinare 33, 00186 Rome, Italy (Home). *Telephone:* (06) 864898 (Office); (06) 565297 (Home).

BOWDEN, Baron (Life Peer), cr. 1963 of Chesterfield, **Bertram Vivian Bowden,** M.A., PH.D., M.SC.TECH., F.I.E.E.; British college principal, physicist and politician (retired); b. 18 Jan. 1910, Chesterfield; s. of Bert C. Bowden; m. 1st Marjorie Browne 1939 (died 1957), 2nd Mary Maltby 1967 (died 1971), 3rd Phyllis James 1974; one s. two d.; ed. Chesterfield Grammar School, Emmanuel Coll., Cambridge, and Univ. of Amsterdam. Schoolmaster, The Collegiate School, Liverpool 1935-37; Chief Physics Master, Oundle School 1937-40; Telecommunications Research Establishment, Swanage and Malvern 1940-43; Naval Research Laboratory, Washington 1943-45; Mass. Inst. of Technology (MIT) 1945-46; Atomic Energy Research Establishment, Harwell 1946; Partner, Sir Robert Watson-Watt and Partners 1946-50; Ferranti Ltd. (in charge of application of digital computers) 1950-53; Principal, Manchester Municipal Coll. of Technology (now Univ. of Manchester Inst. of Science and Technology) 1953-64, 1965-76; Minister of State, Dept. of Educ. and Science 1964-65; Pres. Nat. TV Rental Assn. 1976-. *Publications:* Faster than Thought—A Symposium on Digital Computers 1953, The Proposals for the Development of the Manchester College of Science and Technology 1956, numerous papers and articles on education. *Leisure interests:* garden, music, reading *Address:* Pine Croft, Stanhope Road, Bowdon, Altrincham, Cheshire, England. *Telephone:* 061-928 4005.

BOWDLER, William Garton, M.A.; American diplomatist; b. 27 March 1924, Argentina; s. of George A. and Ruth N. Bowdler; m. Margaret Clark 1945; two s. one d.; ed. Univ. of Richmond, Va., Fletcher School of Law and Diplomacy; served in U.S. Army 1944-46; various positions in Dept. of State 1950-56; Embassy in Havana, Cuba 1956-61; Int. Relations Officer, Washington, D.C. 1961-64; Deputy Co-ordinator of Cuban Affairs 1964-65; senior mem. Nat. Security Council staff 1965-68; U.S. Amb. to El Salvador 1968-71, to Guatemala 1971-73; Deputy Asst. Sec.-Gen. for Inter-American Affairs 1973-75; Amb. to South Africa 1975-78; Envoy of Pres. Carter to Nicaragua 1978; *Address:* c/o Department of State, 2201 C Street, Washington, D.C. 20520, U.S.A.

BOWEN, Hon. Sir Nigel Hubert, K.B.E., B.A., LL.B., Q.C.; Australian judge; b. 26 May 1911, Summerland, British Columbia, Canada; s. of Otway Percival Bowen and Dorothy Joan Bowen; m. Eileen Cecily Mullens 1947; three d.; ed. King's School, Parramatta, N.S.W. and St. Paul's Coll., Univ. of Sydney; admitted to N.S.W. Bar 1936, Victoria Bar 1954; Q.C. 1953; Editor Australian Law Journal 1946-58; Vice-Pres. Law Council of Australia 1957-60; Lecturer in Company Law and Taxation, Univ. of Sydney 1957-58; Pres. N.S.W. Bar Council 1959-61; mem. of Parl. 1964-73; Attorney-Gen. 1966-69; Minister of Educ. and Science 1969-71, Attorney-Gen. 1971; Minister of Foreign Affairs 1971-72; Judge, N.S.W. Supreme Court and Court of Appeal 1973-76; Chief Judge in Equity 1974-76; Chief Judge, Fed. Court of Australia 1976-; leader of Australian del., Vice-Pres. UN Int. Conf. on Human Rights 1968; leader of del. UNESCO Int. Conf. on Cultural Policies 1970, UN Gen. Assembly 1971, 1972; Liberal. *Leisure interests:* music, swimming. *Address:* 21st Level, Law Courts Building, Queens Square, Sydney, N.S.W. 2000 (Office); 43 Grosvenor Street, Wahroonga, N.S.W. 2076, Australia (Home). *Telephone:* 2308438 (Office); 48-1899 (Home).

BOWEN, Otis Ray, M.D.; American physician and politician; b. 26 Feb. 1918, Fulton Co., Ind.; s. of Vernie Bowen and Pearl Bowen; m. Elizabeth A. Steinmann 1939; three s. one d.; ed. Indiana Univ. and Indiana Univ. Medical School; physician 1942-; served U.S. Army Medical Corps, commissioned First Lieut. later Capt. 1942-45; fmr. Marshall County Coroner; mem. House of Reps. 1958-72, Speaker 1967-72, House Minority Leader 1965-67, mem. Legislative Advisory Cttee. and Vice-Chair Legislative Council, Chair. 1970-72; Gov. of Indiana Jan. 1973-; mem. Council State Govts. 1973-, Exec. Cttee., Educ. Comm. States 1973-, Chair. elect 1976-77, Chair. 1977-; mem. Midwest Govs: Conf. 1973-, Vice-Chair. 1977-; mem. Republican Govs.', Conf. 1973-, Nat. Govs.' Conf. 1973-; fmr. mem. Intergovt. Relations Cttee. and Task Force on Urban Affairs, Nat. Legislative Conf.; Trustee, Ancilla Coll.; mem. Advisory Cttee. for curricula, Vincennes Univ.; mem. District, State and American Medical Asscns., Bremen Chamber of Commerce; mem. President's Comm. on Fed. Paperwork 1975-, on Science and Tech. 1976-; Merit Award, Ind. Public Health Assn. 1971, Dr. Benjamin Rush Bicentennial Award, American Medical Assn. 1973, and other awards; Republican. *Leisure interests:* collecting quotes, fishing, watching baseball, basketball, football and racing. *Address:* Office of the Governor, 206 State Capitol, Indianpolis, Ind. 46204; Executive Residence, 4750 N. Meridian, Indianapolis, Ind., U.S.A. (Home). *Telephone:* 317-633-4567 (Office).

BOWEN, William Gordon, PH.D.; American university president; b. 6 Oct. 1933, Cincinnati, Ohio; s. of Albert A. Bowen and Bernice Pomert; m. Mary Ellen Maxwell 1956; one s. one d.; ed. Denison and Princeton Univs. Asst. Prof. of Econs., Princeton Univ. 1958-61, Assoc. Prof. 1961-65, Prof. 1965-; Dir. of Graduate Studies, Woodrow Wilson School of Public and Int. Affairs, Princeton Univ. 1964-66; Provost, Princeton Univ. 1967-72, Pres. 1972-. *Publications:* The Wage-Price Issue: A Theoretical Analysis 1960, Performing Arts: The Economic Dilemma (with W. J. Baumol) 1966, The Economics of Labor Force Participation (with T. A. Finegan) 1969. *Leisure interests:* swimming, tennis, reading. *Address:* Princeton University, 1 Nassau Hall, Princeton, N.J. 08540 (Office); 83 Stockton Street, Princeton, N.J. 08540, U.S.A. (Home).

BOWIE, Robert Richardson, LL.B.; American lawyer and university professor; b. 24 Aug. 1909, Baltimore; s. of Clarence K. and Helen R. Bowie; m. Theodosia Chapman 1944; two s.; ed. Gilman School, Baltimore, Maryland, Princeton Univ. and Harvard Law School; admitted to Maryland Bar 1934, mem. firm Bowie and Burke, Baltimore 1934-42; Reporter, Maryland Comm. on Civil Procedure 1939-41; Asst. Dir. Maryland Legis. Council 1940-41; Asst. Attorney-Gen., Maryland 1941-42; U.S. Army 1942-46; Special Asst. to Dep. Military Governor for Germany 1945-46; Prof. of Law, Harvard Univ. 1945-55; Gen. Counsel, Special Adviser U.S. High Commissioner for Germany 1950-51; Dir. Policy Planning Staff, Dept. of State 1953-55; Asst. Sec. of State for Policy Planning 1955-57; Counsellor, Dept. of State 1966-68; Prof. of Government, Harvard Univ. 1957-; Dir. Center for Int. Affairs, Harvard Univ. 1957-72; Deputy to Dir. of CIA April 1977-; Legion of Merit with Oak Leaf Cluster. *Publications:* various studies, and Shaping the Future Foreign Policy in an Age of Transition 1964, Suez 1956 1974. *Leisure interests:* reading, sailing, golf, music. *Address:* c/o CIA, Washington, D.C. 20505, (Office); 2801 New Mexico Avenue, N.W., Washington, D.C. 20007, U.S.A. *Telephone:* (703) 351-5151 (Office); (202) 333-6468 (Home).

BOWLES, Chester, B.S.; American diplomatist (retired); b. 5 April 1901, Springfield, Mass.; s. of Charles Allen Bowles and Nellie Harris; m. Dorothy Stibbins 1934; two s. three d.; ed. Yale Univ.; business in New York, Chair. of Board, Benton and Bowles Inc. 1925-40; Dir. Price and Rationing Controls, State of Conn. 1941-43; Administrator of Wartime Price, Rent and Rationing Controls for the U.S., mem. Production Board 1943-46; Dir. of Economic Stabilisation 1946; U.S. Del. UNESCO Conf. Paris 1946; Consultant to Trygve Lie, UN, Int. Chair. UN Appeal for Children 1947-48; Gov. State of Conn. 1949-51; U.S. Amb. to India and Nepal 1951-53; U.S. Congressman 1959-61; mem. Foreign Affairs Cttee. and Foreign Policy Adviser to the Pres. 1959-60; Under-Sec. of State Jan.-Nov. 1961; Special Rep. and Adviser to the Pres. for African, Asian and Latin American Affairs 1961-63; Amb. to India 1963-69; numerous hon. degrees; Democrat. *Publications:* Tomorrow With-

out Fear 1946, Ambassador's Report 1954, The New Dimensions of Peace 1955, Africa's Challenge to America 1956, American Politics in a Revolutionary World 1956, Ideas, People and Peace 1958, The Coming Political Breakthrough 1960, Conscience of a Liberal 1962, Makings of a Just Society 1963, A View from New Delhi 1969, Promise to Keep 1971, Mission to India 1974. *Address:* Hayden's Point, Essex, Conn. 06426, U.S.A.

BOWLES, Paul; American composer and writer; b. 30 Dec. 1910, New York; s. of Dr. Claude Dietz Bowles and Rena Winnewisser; m. Jane Auer 1938; ed. Univ. of Va. and in Berlin and Paris. Music Critic for New York Herald Tribune 1942-45; recipient of Guggenheim Fellowship and Rockefeller Grant. Compositions of music for films, for the theatre: Doctor Faustus, Twelfth Night, The Glass Menagerie, Cyrano de Bergerac, Watch on the Rhine, Summer and Smoke, Sweet Bird of Youth, The Milk Train Doesn't Stop Here Any More, etc.; scores for ballets: Yankee Clipper, Pastorela (American Ballet Company), Colloque Sentimental (Marquis de Cuevas); operas: Denmark Vesey, The Wind Remains, Yerma; and a number of sonatas, concertos, etc.; also wrote novels, The Sheltering Sky, Let it come Down, The Spider's House, Up Above the World; short stories, collections, A Little Stone, The Hours after Noon, A Hundred Camels in the Courtyard, Pages from Cold Point, Things Gone and Things Still Here; non-fiction, Their Heads are Green, Yallah! Without Stopping; Poetry: Scenes, The Thicket of Spring; trans. A Life Full of Holes (by Driss ben Hamed Charhadi), Love with a Few Hairs, The Lemon (by Mohammed Mrabet), M'Hashish, the Boy Who Set the Fire (by Mohammed Mrabet), For Bread Alone (by Mohamed Choukri), The Oblivion Seekers (by Isabelle Eberhardt), Look and Move On (by Mohammed Mrabet), Harmless Poisons, Blameless Sins (by Mohammed Mrabet), The Big Mirror (by Mohammed Mrabet). *Address:* 2117 Tanger Socco, Tangier, Morocco.

BOWRING, Edgar Rennie Harvey, M.C., M.A., F.B.I.M.; British lawyer and company executive; b. 5 Nov. 1915, Calif., U.S.A.; s. of Arthur and Margaret Bowring; m. Margaret Grace Brook 1943; two s. one d.; ed. Eastbourne Coll., Clare Coll., Cambridge, and Yale Univ.; served Kent Yeomanry and Royal Artillery 1943-46; admitted solicitor 1949; Partner, Cripps Harries Hall and Co. 1950-55; Solicitor, Dir. C. T. Bowring and Co. (Insurance) Ltd. 1960-73; mem. Lloyd's 1962-; Dir. C. T. Bowring and Co. Ltd. 1963-; Chair. English and American Insurance Co. Ltd. 1966-77, Deputy Chair. and Chief Exec. C. T. Bowring (Insurance) Holdings Ltd. 1970-73; Chair. Crusader Insurance Co. Ltd. 1973-77; Chair. Bowmaker Ltd. 1973-77; Chair. The Bowring Group of Companies 1973-78; Dir. Singer and Friedlander 1971-77; Deputy Pres. Insurance Inst. of London 1970-71, Pres. 1971-72; Fellow, Corpn. of Insurance Brokers. *Leisure interests:* golf, gardening. *Address:* The Bowring Building, Tower Place, London, EC3P 3BE, England. *Telephone:* 01-283 3100.

BOWRING, Peter; British company director; b. 22 April 1923, Bromborough; s. of Frederick Clive and Agnes Walker (née Cairns) Bowring; m. Barbara Ekaterina Brewis 1946; (divorced); one s. one d.; ed. Shrewsbury School; commissioned, Rifle Brigade 1942, served in Egypt, North Africa, Italy and Austria (mentioned in despatches); Dir. Bowring Jones and Tidy Ltd. 1952, C. T. Bowring & Co. Ltd. 1956; Chair. C. T. Bowring Trading (Holdings) Ltd. 1967; Deputy Chair. C. T. Bowring and Co. Ltd. 1973; Chair. Bowring Steamship Co. Ltd. 1974, Bowmaker (Plant) Ltd. 1972, Bowmaker Ltd. 1978-, C. T. Bowring & Co. Ltd. 1978-; Chair. Help The Aged; Chair. Bd. of Governors, St. Dunstans Educational Foundation; mem. Bd. of Governors, Shrewsbury School; mem. Council of Aldeburgh Festival; mem. Action Resource Centre Advisory Council. *Leisure interests:* sailing, cooking, listening to music. *Address:* The Bowring Building, Tower Place, London, EC3P 3BE (Office); Flat Five, 69 Onslow Square, London, SW7 3LS, England (Home). *Telephone:* 01-283 3100 (Office); 01-584 8946 (Home).

BOYA, Thomas S.; Benin teacher and diplomatist; b. 6 Feb. 1936, Ouidah; m.; five c. Teacher of English, Lycée Behanzin 1961-74; Headmaster, No. 1 Secondary School, Ouidah 1974-75; Perm. Rep. to UN Jan. 1976-. *Address:* Permanent Mission of Benin to the United Nations, 4 East 73rd Street, New York, N.Y. 10021, U.S.A.

BOYCOTT, Geoffrey; British cricketer; b. 21 Oct. 1940, Fitzwilliam, Yorks.; s. of late Thomas Wilfred Boycott and Jane Boycott; ed. Kinsley Modern School and Hemsworth Grammar School; fmrly. in civil service, debut as cricketer (right-hand batsman) for Yorkshire 1962, received County Cap 1963, Captain of Yorkshire 1970-78; played for England 1964-74, 1977-; appointed Vice-Captain, England team to Pakistan and New Zealand 1977-78, took over captaincy on injury of M. J. Brearley, Jan. 1978; only Englishman to achieve average of 100 in English County season 1971; scored 100th hundred, England v. Australia, Headingly, Leeds Aug. 1977; became 18th batsman in history of game to score 100 hundreds and the first to achieve this in a Test Match. *Publication:* Geoff Boycott's Book for Young Cricketers 1976, Put to the Test: Ashes Series in Australia 1978/79 1979, Geoff Boycott's Cricket Quiz 79; *Leisure interests:* golf, tennis. *Address:* Fitzwilliam, Pontefract, West Yorkshire, England.

BOYD, Aquilino Edgardo; Panamanian lawyer and diplomatist; b. 1921; ed. La Salle, Panama City, Holy Cross Coll., U.S.A., Univs. de la Habana and Panamá. First Sec. Cuba 1946-47, Washington 1947-48; mem. Panama Nat. Assembly 1948-64; Pres. Nat. Assembly 1949; Minister Foreign Affairs 1959-58, 1976-77; Perm. Rep. to UN 1962-67, 1968-76. *Address:* c/o Ministerio de Relaciones Exteriores, Panama City, Panama.

BOYD, Arthur Merric Bloomfield; Australian painter; b. 24 July 1920, Murrumbeena; s. of Merric Boyd and Doris Gough; m. Yvonne Lennie 1945; one s. two d.; ed. State School, Murrumbeena, Victoria; taught painting and sculpture by parents and grandfather; painted and exhibited in Australia 1937-59, in England 1959-; now works in England and Australia. *Publication:* Monograph 1967. *Address:* c/o Commercial Bank of Australia Ltd., 34 Piccadilly, London, W.1, England.

BOYD, Howard Taney, J.D., LL.D.; American business executive; b. 5 June 1909, Woodside, Maryland; s. of Howard T. Boyd and Mary Violet (Stewart); m. Lucille Belhumeur 1935; one s. two d.; ed. Georgetown Univ.; admitted D.C. Bar 1934, Texas Bar; Sec. to Attorney-Gen. of U.S. 1934; Asst. U.S. Attorney, D.C. 1935-39; Partner, law firm Hogan and Hartson, Washington 1939-52; Vice-Pres., Asst. Gen. Counsel, El Paso Natural Gas Co. (renamed The El Paso Company, 1974) 1952-57, Dir. 1953-, Exec. Vice-Pres. 1957-60, Pres. 1960-65, Chair., Chief Policy Officer 1974-; Dir. The Greyhound Corpn., Armour and Co., Texas Commerce Bank N.A., U.S.—U.S.S.R. Trade and Econ Council, American Heart Assen., Houston Symphony Soc.; mem. U.S. Council World Energy Conf. *Address:* 2727 Allen Parkway, Houston, Texas 77019 (Office); 6042 Crab Orchard, Houston, Texas 77057, U.S.A. (Home).

BOYD OF MERTON, 1st Viscount, cr. 1960, of Merton-in-Penninghame in the county of Wigtown; **Alan Tindal Lennox-Boyd,** P.C., C.H.; British politician and business executive; b. 18 Nov. 1904, Bournemouth; s. of Alan Walter Lennox-Boyd and Florence Begbie; m. Lady Patricia Florence Susan Guinness 1938; three s.; ed. Sherborne and Christ Church, Oxford. Pres. of the Union, Oxford 1926; Conservative M.P. for Mid-Beds. 1931-60; Parl. Sec., Ministries of Labour 1938, of Home Security 1939, of Food 1939-40, and of Aircraft Production 1943-45; served R.N.V.R. 1940-43; Minister of State for Colonial Affairs 1951-52; Minister of Transport and Civil Aviation 1952-54; Sec. of State for Colonies 1954-59; Exec. Dir. Arthur Guinness Son & Co. Ltd. 1959-61, Man. Dir. 1961-67, Joint Vice-Chair. 1967-; Dir. Tate and Lyle 1966-74, Imperial Chemical Industries 1967-75; Trustee, British Museum 1962-77, Natural History Museum 1963-75; Chair. Conservative mission to monitor Rhodesian elections 1979; D. L. Cornwall 1965–. *Leisure interests:* sailing, fishing, shooting. *Address:* 6 Iveagh House, Ormond Yard, London S.W.1; and Ince Castle, Saltash, Cornwall, England. *Telephone:* 01-839 3969.

BOYD-CARPENTER, Baron (Life Peer), cr. 1972, of Crux Easton in the County of Southampton; **Rt. Hon. John Archibald Boyd-Carpenter,** P.C.; British administrator; b. 2 June 1908; s. of late Sir Archibald, M.P., and Lady Boyd-Carpenter; m. Margaret Mary Hall 1937; one s. two d.; ed. Stowe School and Balliol Coll., Oxford. Pres. Oxford Union Soc. 1930; called to Bar 1934; practised S.E. Circuit; joined Scots Guards 1939, served until 1945; M.P. 1945-72; Financial Sec. to Treasury 1951-54; Privy Councillor 1954; Minister of Transport and Civil Aviation 1954-55, of Pensions and Nat. Insurance 1955-62, Chief Sec. to Treasury and Paymaster-Gen. 1962-64; Opposition Front Bench Spokesman on Housing and Land 1964-66; Chair. Public Accounts Cttee. House of Commons 1964-70, Local Govt. Advisory Cttee. of Conservative Greater London Area Org. 1968; Dir. Orion Insurance Co. 1967, 1972, Chair. 1969-72, C.L.R.P. Investment Trust 1967, Chair. 1970-72, City and Int. Investment Trust 1966-, Life Assen. of Scotland 1970-72; mem. Council, Trust Houses-Forte Ltd. 1970-72, 1977-; Dir. Rugby Portland Cement Co. 1971-, Chair 1977-; Dir. Parmelia Hotel Pty. Ltd., Mill Properties Pty. Ltd., Compagnie pour les Recherches et Dévoilements; Chair. U.K. Civil Aviation Authority 1972-77; High Steward of Kingston upon Thames and Deputy Lieut. for Greater London 1973-. *Leisure interests:* swimming, tennis. *Address:* Rugby Portland Cement Co., Crown House, Rugby, Warwicks.; and Rugby Portland Cement Co., 106 Park Street, London, W.1 (Office); 12 Eaton Terrace, London S.W.1, England. (Home). *Telephone:* 0788-2111 (Rugby); 01-493 4272 (London) (Home).

BOYE, Ibrahima; Senegalese judge; b. 29 March 1924, Saint Louis; s. of Amadou Abdoulaye Boye and Marème Sène; m. Marie Anne Cissé 2948; three s. four d.; ed. Univ. of Montpellier. Attorney-at-Law, Court of Appeals, Nîmes, France 1947-48; mem. Public Prosecutor's Office at Court of Appeals of Montpellier 1948-50; later French Judge, Guinea, Pres. of Colonial Court of Appeals, Dahomey; Examining Magistrate, Cotonou and Abidjan; Justice of the Peace, Agbonville, Ivory Coast; mem. Criminal Court, Dahomey and Ivory Coast 1956-57; Technical Adviser in Ministry of Justice, Mali Fed. 1960, later Dir. of Cabinet and Justice of Supreme Court, Senegal; fmr. Attorney-Gen., Senegal; Chair. ad hoc cttee., UN Comm. on Human Rights 1967-; Amb. and Perm. Rep. of Senegal to UN 1968-71; Rep. of Senegal, UN Security Council 1968, 1969, Pres. 1969; Vice-Pres. UN Gen. Assembly 1970; Amb. to U.S.S.R., Poland, Hungary, Romania, Czechoslovakia 1971-77, to Bulgaria 1973-77; Grand Officer Nat. Order of Senegal, of Lebanon; Officier Palmes académiques. *Publications:* Works on human rights, study of racial discrimination throughout the world. *Leisure interest:* African-negro poetry. *Address:* c/o Ministry of Foreign Affairs, Dakar, Senegal.

BOYE, Thore Albert, LL.B.; Norwegian diplomatist; b. 27 Oct. 1912, Oslo; s. of Thorvald and Mia (née Esmarch) Boye; m. Augusta Sophie Siem 1945; two s.; ed. Univ. of Oslo. Asst. District Judge, Tromsö 1936; Sec. at Ministry of Foreign Affairs 1938, and Ministry of Finance (London) 1940; Head of Division, Norwegian Ministry of Defence (London) 1942; Commercial Counsellor in Embassy 1946; Delegate to Inter-Allied Reparation Agency, Brussels 1946; Head of Division, Ministry of Foreign Affairs 1948; Chief Sec., Northern European Regional Planning Group, NATO, London 1949; Deputy Dir. Gen., Dept. of Econ. Affairs, Ministry of Foreign Affairs 1951; Director Gen., Dept. of Political Affairs 1953; Sec. Gen., Ministry of Foreign Affairs 1966; Amb. to Rome and Athens 1962, to Madrid 1973, to Stockholm 1978-; Exec. Vice-Pres. Scandinavian Airlines System 1955-61; several national and foreign decorations. *Address:* c/o Norwegian Embassy, Strandvägen 113, 115, 27 Stockholm, Sweden.

BOYER, Paul Delos, PH.D.; American professor of chemistry; b. 31 July 1918, Provo, Utah; s. of Dell Delos Boyer and Grace Guymon; m. Lyda Wicker 1939; one s. two d.; ed. Brigham Young Univ. and Univ. of Wisconsin. Research Asst., Univ. of Wis. 1939-43; Instructor, Stanford Univ. 1943-45; Assoc. Prof., Univ. of Minn. 1947-53, Prof. 1953-56, Hill Prof. of Biochem. 1956-63; Prof. of Chem., Univ. of Calif. at Los Angeles 1963-, Dir. Molecular Biology Inst. 1965-; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Pres. American Soc. of Biol. Chemists 1969-70; Guggenheim Fellowship 1955; American Chem. Soc. Award 1955; Dr. h.c., Univ. of Stockholm 1974. *Publications:* Author or co-author of over 200 scientific papers in biochem. and molecular biology *Address:* University of California at Los Angeles, Molecular Biology Institute, 408 Hilgard Avenue, Los Angeles, Calif. 90024, U.S.A. *Telephone:* (213) 825-1018.

BOYESEN, Jens Mogens; Norwegian diplomatist; b. 9 Oct. 1920, Oslo; s. of Einar and Birghild Boyesen; m. Erle Bryn 1955; ed. Oslo Univ.; active in Resistance 1940-45; degree in law 1947; Asst. Judge 1948; entered Foreign Service 1949; Under-Sec. Ministry of Foreign Affairs 1951-54, Ministry of Defence 1954-55; Amb. to NATO 1955-63, to OEEC 1955-61, to OECD 1961-63; Under-Sec. of State for Foreign Affairs 1964-65; Assoc., Norwegian Defence Research Establishment Jan. 1967-; Amb. to Int. Orgs. in Geneva 1968-73; Amb. to European Communities, and to Belgium and Luxembourg 1973-76; Amb. to OECD 1977-. *Address:* 109 Avenue Henri Martin, 75016 Paris, France.

BOYLAND, Eric, D.SC., PH.D.; British university professor; b. 24 Feb. 1905, Manchester; s. of Alfred E. and Helen Boyland; m. Margaret Esther Maurice, two s. one d.; ed. Univs. of Manchester and London. Lister Inst. for Preventive Medicine 1928-30; Kaiser Wilhelm Inst. für Medizinische Forschung, Heidelberg 1930-31; Physiological Chemist to Royal Cancer Hospital, London 1931; Reader in Biochemistry, Univ. of London 1935-47, Prof. of Biochemistry in Univ. of London, at the Chester Beatty Research Inst. of the Royal Cancer Hospital 1948-70; Visiting Prof. in Toxicology, London School of Hygiene and Tropical Medicine 1970-; Judd Award for Cancer Research, N.Y. 1948, Medal of Société de Chimie biologique 1956. *Leisure interests:* walking, looking at paintings. *Address:* London School of Hygiene and Tropical Medicine, Keppel Street, London, WC1E 7HT (Office); 42 Bramerton Street, London, S.W.3; Maltmayes, Warnham, West Sussex, England (Homes). *Telephone:* 01-636 8636 (Office); 01-352 2601, Oakwood Hill 428 (Homes).

BOYLE, Marshal of the R.A.F. Sir Dermont Alexander, G.C.B., K.C.V.O., K.B.E., A.F.C.; British officer; b. 2 Oct. 1904, Durrow, Eire; s. of A. F. Boyle; m. Una Carey 1931; two s. one d.; ed. St. Columba's Coll., Ireland, and R.A.F. Coll., Cranwell; commissioned R.A.F. 1924; Staff Officer, H.Q., R.A.F. India 1933-35; Staff Coll., Andover 1936; Chief Flying Instructor, Cranwell 1937-39; 83 Squadron, Scampton 1940-41; Asst. Sec. War Cabinet Office 1941; Senior Air Staff Officer, H.Q. No. 83 Group 1943-45; A.D.C. to the King 1943; A.O.C. No. 11 Group 1945; Imperial Defence Coll. 1946; Dir-Gen. of Manning 1949-51; A.O.C. No. 1 Group, Bomber Command 1951-53; C.-in-C. Fighter Command 1953-55; Air Chief Marshal 1956; Chief of Air Staff 1956-59; Vice-Chair. British Aircraft Corpn. 1962-71; Chair. of Trustees, R.A.F. Museum 1965-74; Master of Guild of Air Pilots and Air Navigators 1965-66; Chair. Court of Govs. Mill Hill School 1969-76. *Address:* Fair Gallop, Brighton Road, Sway, Lymington, Hants., England.

BOYLE OF HANDSWORTH, Baron (Life Peer), cr. 1970, of Salehurst in the County of Sussex; **Edward Charles Gurney Boyle,** Bt., P.C.; British politician and university administrator; b. 31 Aug. 1923; ed. Eton Coll. and Christ Church, Oxford; Member of Parl. 1950-70; Parl. Private Sec. to Under-Sec. for Air 1951-52, and to Parl. Sec. to Ministry of Defence 1952-53; Parl. Sec. Ministry of Supply 1954-55; Econ. Sec. to Treasury 1955-56; Parl. Sec. Ministry of Education 1957-59; Financial Sec. to Treasury 1959-62; Minister of Education 1962-64; Minister of State under Sec. of State for Educ. and Science April 1964-Oct. 1964; Conservative; Pro-Chancellor Sussex Univ. 1965-70; Dir. Longman Penguin Ltd. 1965-; Chair. Top Salaries Review Body; Vice-Chancellor, Univ. of Leeds Sept. 1970-; Chair. Cttee. of Vice-Chancellors and Principals 1977-; Trustee, British Museum 1970-; mem. High Council, European Univ. Inst.; Hon. F.R.C.S., Hon. LL.D. (Leeds, Bath, Sussex and Southampton), Hon. D.Sc. (Univ. of Aston in Birmingham), Hon. D. Litt. (Heriot-Watt and Hull). *Address:* University of Leeds, Leeds 2, England.

BOYLES, Thomas Albert; Canadian banker; b. 26 Jan. 1906, London, England; s. of Albert E. Boyles and Sarah M. Stringer; m. Cora E. McBride 1953; ed. public and high schools; joined the Bank of Nova Scotia 1921, Chief Accountant 1940, Exec. Asst. 1946, Supervisor of branch office 1948, Man. Ottawa branch 1950, Toronto branch 1952, Asst. Gen. Man. 1956, Deputy Gen. Man. 1958, Gen. Man. 1963, Chief Gen. Man. 1964, Exec. Vice-Pres. and Dir. 1966, Deputy Chair. 1969, Chair. of Board 1972-74, Hon. Chair. of Board 1974-; Pres. and Dir. The Canborough Corpn., Canborough Ltd.; Chair. and Dir. Scotiafund Financial Services Ltd. and of numerous foreign subsidiaries of Bank of Nova Scotia, of Pensionfund Realty Ltd.; Dir. Pensionfund Properties Ltd., Export Finance Corpn. of Canada Ltd., Campeau Corpn.; mem. Toronto Redevt. Advisory Council; Pres. and Dir. Orthopaedic and Arthritic Hospital Foundation; Dir. Ontario Soc. for Crippled Children; Trustee, Ontario Crippled Children's Centre; Gov. Foundation of Canadian Coll. of Health Service Execs. *Leisure interests:* golf, fishing, philately. *Address:* The Bank of Nova Scotia, 44 King Street, West Toronto M5H 1E2, Ont. (Office); 24 Edmund Avenue, Toronto M4V 1H3, Ontario, Canada (Home).

BOZER, Prof. Dr. Ali Husrev; Turkish jurist; b. 28 July 1925, Ankara; s. of Mustafa Fevzi Bozer and Zehra Bozer; m.; three s.; ed. Ankara and Neuchâtel Univs. and Harvard Law School; Assistant judge, Ankara 1951; Asst., Faculty of Law, Ankara Univ. 1952-60, Agrégé 1955-60, Head of Dept. 1961-, Prof. of Commercial Law 1965-; lawyer at bar, Ankara 1952-; Dir. Inst. de Recherche sur le Droit commercial et bancaire 1960-; Judge, European Court of Human Rights 1974-76; mem. Admin. Council, Turkish Radio-TV Corpn. 1968-71, Vice-Pres. 1971-73. *Publications:* Les droits d'administration et de jouissance des père et mère sur les biens de l'enfant, Nantissement commercial, Aperçu général sur le droit des assurances sociales ■ droit turc, Droit commercial pur les employés de banques, Papiers valeurs pour les employés de banques; monographs and articles in several reviews in Turkish and French. *Leisure interest:* tennis. *Address:* Ahmet Rasim sok. 35/5, Gankaya, Ankara, Turkey. *Telephone:* 271845, 191322.

BRAAMS, Cornelis Marius, PH.D.; Netherlands physicist; b. 5 July 1925, Den Bosch; s. of R. Braams and B. J. Straver; m. A. G. Planting 1952; two s. two d.; ed. Univ. of Utrecht; experimental nuclear physics at M.I.T., Cambridge, U.S.A. 1952-54; with Foundation for Fundamental Research on Matter (FOM) 1955-, Research Assoc. 1955-57, Scientific Head of Thermonuclear Group 1957-58, Dir. Inst. for Plasma Physics 1958-; part-time Prof. of Plasma Physics, Univ. of Utrecht 1962-; Visiting Scientist, Boeing Scientific Research Laboratories, Seattle 1963-65. *Leisure interests:* sailing, field-hockey, gardening. *Address:* FOM-Institute for Plasma

Physics, Rijnhuizen, P.O.B. 7, Nieuwegein, Jutphaas (Office); Joh. Wagenaarkade 33, Utrecht, Netherlands (Home). *Telephone:* 3402-1224 (Office); 30-931132 (Home).

BRABHAM, Jack, Sir (John Arthur), Kt., O.B.E.; Australian professional racing driver (retd.); b. 2 April 1926, Sydney, Australia; m. Betty Evelyn, 1951; three s.; ed. Hurstville Technical Coll., Sydney; served in R.A.A.F. 1944-46; started own engineering business 1946; Midget Speedway racing 1946-52; numerous wins driving Cooper-Bristol, Australia 1953-54; went to Europe 1955; Australian Grand Prix 1955, 1963; World Champion, Formula II 1958; Formula II Champion of France 1964; World Champion Driver 1959-60, 1960-61, 1966; First in Monaco and U.K. Grandes Epreuves 1959; won Grand Prix of Netherlands, Belgium, France, U.K., Portugal, Denmark 1960, Belgium 1961, France 1966, 1967, U.K. 1966; began building own cars 1961; Man. Dir. Jack Brabham (Motors) Ltd., Jack Brabham (Worcester Park) Ltd., Brabham Racing Org. Ltd., Engine Devts. Ltd.; Ferodo Trophy 1964, 1966; RAC Gold Medal 1966, BARC Gold Medal 1959, 1966, 1967; Formula I Mfrs. Championship 1966, 1967. *Address:* c/o 248 Hook Road, Chessington, Surrey, England. *Telephone:* 01-397 4343.

BRACE, William Francis, PH.D.; American professor of geology; b. 26 Aug. 1926, Littleton, N.H.; s. of Frank Charles Brace and Frances Badger Dodge Brace; m. Margaret T. Grant 1955; two s. one d.; ed. M.I.T., Cambridge, Mass. Prof. of Geology, M.I.T., 1954-61, Assoc. Prof. of Geology 1961-64, Prof. of Geology 1964-; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences. *Publications:* numerous technical articles. *Leisure interests:* music, rowing, running, climbing, skiiing. *Address:* Room 54-720, Department of Earth and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); 136 Lakeview Avenue, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 617-253-3391.

BRACHER, Karl Dietrich, DR. PHIL.; German political scientist and historian; b. 13 March 1922, Stuttgart; s. of Theodor Bracher and Gertrud Zimmerman; m. Dorothee Schleicher 1951; one s. one d.; ed. Gymnasium, Stuttgart, Univ. of Tübingen and Harvard Univ.; Research Asst. and Head of Dept., Inst. of Political Science, Berlin 1950-58; Lecturer, German Hochschule für Politik, Berlin; Privatdozent and Prof. Free Univ., Berlin 1955-58; Prof. of Political Science and Contemporary History, Univ. of Bonn 1959-; Pres. Comm. for History of Parl. and Political Parties, Bonn 1962-68; Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, U.S.A. 1963-64; Pres. German Assen. of Political Science 1965-67; mem. Inst. for Advanced Study, Princeton, U.S.A. 1967-68, 1974-75; mem. Board, Institut für Zeitgeschichte, Munich, German Assen. of Foreign Policy, Assen. of German Scientists, German PEN Centre; Guest Prof. Oxford Univ. 1971, Tel Aviv Univ. 1974, European Univ. Inst. (Florence) 1975-76; Hon. Mem. American Acad. of Arts and Sciences 1973; Hon. D. Hum. Litt.; Corresp. Fellow, British Acad., American Philosophical Soc.; Editor Vierteljahrshefte für Zeitgeschichte; mem. Editorial Board, Politische Vierteljahresschrift, Neue Politische Literatur, Bonner Historische Forschungen, Journal of Contemporary History, Government and Opposition, Societas Zeitschrift für Politik, History of the Twentieth Century, Bonner Schriften zur Politik und Zeitgeschichte, Modern Constitutionalism and Democracy (joint editor) 2 vols. 1966, Nach 25 Jahren (editor) 1970, Bibliographie zur Politik (joint editor) 1970, 1976, Dokumente zur Deutschlandpolitik 1972-. *Publications:* Conscience in Revolt (with others) 1954, Die Auflösung der Weimarer Republik 1955, Staat und Politik (with E. Fraenkel) 1957, Die Nationalsozialistische Machtergreifung (with others) 1960, The Foreign Policy of the Federal Republic of Germany 1963, Problems of Parliamentary Democracy in Europe 1964, Adolf Hitler 1964, Deutschland zwischen Demokratie und Diktatur 1964, Internationale Beziehungen (with E. Fraenkel) 1969, The German Dictatorship (Italian, Spanish, Japanese trans.) 1970, Das deutsche Dilemma 1971 (English trans. 1975), Western Europe (in Times History of Our Times) 1971, Democracy (in Europe Tomorrow) 1972, Zeitgeschichtliche Kontroversen 1976, Die Krise Europas 1917-1975 1976, Schlüsselwörter in der Geschichte 1978. *Leisure interest:* piano music. *Address:* Am Hofgarten 15, Bonn; Stationsweg 17, Bonn, Federal Republic of Germany. *Telephone:* 655158.

BRACK, Robert William, A.O., B.A., F.A.I.M.; Australian business executive; b. 15 Nov. 1921, Hawthorn, Victoria; s. of James Brack and late Frances Lillian Brack (née Downey); m. Joan Mackey 1952; one s. one d.; ed. Telopea Park High School, Canberra and Melbourne Univs.; with Dept. of Trade and Customs 1938-41; served 8th Div. A.I.F. 1941-45, P.O.W. Singapore and Thailand; Australian High Comm., London 1949-51, 1956-57; Australian Embassy, Washington, D.C. 1952-53; Asst. Comptroller-Gen. of Customs, Canberra 1959-63; Collector of Customs for N.S.W. 1963-64; joined Australian Consolidated Industries Ltd., Commercial Man. 1964-66, Asst. Gen. Man. 1966-67, Gen. Man. 1967-, Dir. 1974-, Man. Dir. 1978-; Dir. Alex Harvey Industries Ltd., Malaysian Containers Berhad; Commr. Australian Nat. Airlines Comm. (TAA); Chair. Pak Pacific Corpn. Pty. Ltd.; Vice-Chair. Australian Admin. Staff Coll.; Dir. of other cos.; Fellow Inst of Dirs. (Australia). *Address:* Australian Consolidated Industries Ltd., 550 Bourke Street, Melbourne, Victoria 3000, Australia. *Telephone:* 600441.

BRADBROOK, Muriel Clara, M.A., PH.D., LITT.D.; British university professor; b. 27 April 1909; d. of Samuel Bradbrook; ed. Hutchesons' School, Glasgow, Oldershaw School, Wallasey, and Girton Coll., Cambridge; Fellow of Girton Coll., Cambridge 1932-35, 1936-; Mistress of Girton Coll. 1968-76; in residence Somerville Coll., Oxford 1935-36; Board of Trade, Industries and Manufactures Depts. 2 and 3 1941-45; Univ. Lecturer, Cambridge 1945-62, Reader 1962-65, Prof. of English 1965-76; in residence Folger Library, Washington, and Huntingdon Library, Calif. 1958-59; tour of Far East for Shakespeare's Fourth Centenary 1964; Trustee, Shakespeare's Birthplace 1967; Visiting Prof. Santa Cruz, Calif. 1966, Kuwait 1969, Kenyon Coll., U.S.A. 1977; Foreign mem. Norwegian Acad. of Arts and Sciences 1966; Freedom of City of Hiroshima; F.R.S.L. 1947; Hon. Litt. D. (Liverpool Univ.) 1964, (Sussex Univ.) 1972, (London Univ.) 1973, Hon. LL.D. (Smith Coll., U.S.A.) 1965, Hon. Ph.D. (Gothenburg) 1975, Hon. D. Litt. (Kenyon Coll., U.S.A.). *Publications:* Elizabethan Stage Conditions 1932, Themes and Conventions of Elizabethan Tragedy 1934, The School of Night 1936, Andrew Marvell (with M. G. Lloyd Thomas) 1940, Joseph Conrad 1941, Ibsen the Norwegian 1947, T. S. Eliot 1950, Shakespeare and Elizabethan Poetry 1951, The Queen's Garland 1953, The Growth and Structure of Elizabethan Comedy 1955, Sir Thomas Malory 1957, The Rise of the Common Player 1962, English Dramatic Form 1965, That Infidel Place: A History of Girton College 1969, Shakespeare the Craftsman 1969, Literature in Action 1972, T. S. Eliot: the Making of "The Waste Land" 1972, Malcolm Lowry: His Art and Early Life 1974, The Living Monument 1976, Shakespeare, the Poet and his World 1978. *Leisure interests:* travel, theatre. *Address:* 91 Chesterton Road, Cambridge, CB4 3AP, England. *Telephone:* 52765.

BRADBURY, Malcolm Stanley, M.A., PH.D.; British author and professor of American studies; b. 7 Sept. 1932, Sheffield, Yorks.; s. of Arthur and Doris Ethel (Marshall) Bradbury; m. Elizabeth Salt 1959; two s.; ed. Univ. Coll., Leicester, Queen Mary Coll., Univ. of London, Univ. of Manchester. Staff Tutor in Literature and Drama, Dept. of Advanced Educ., Univ. of Hull 1959-61; Lecturer in English Language and Literature, Univ. of Birmingham 1961-65; Lecturer, later Senior Lecturer and Reader, School of English and American Studies, Univ. of East Anglia 1965-70, Prof. of American Studies 1970-; Visiting Prof., Univ. of Zürich 1972; Royal Soc. of Literature Prize for The History Man 1975. *Publications:* Eating People is Wrong (novel)1959, Evelyn Waugh 1962, E. M. Forster: a Collection of Critical Essays (editor) 1965, Stepping Westward (novel) 1965, What is a novel? 1969, A Passage to India: a Casebook 1970, A Penguin Companion to Literature: Vol. III, American Literature (with E. Mottram) 1971, The Social Context of Modern English Literature 1972; Possibilities: Essays on the State of the Novel 1973, The History Man (novel) 1975, Modernism (with J. W. MacFarlane) 1976, Who do you Think you are? (short stories) 1976. *Address:* School of English and American Studies, University of East Anglia, University Plain, Norwich, Norfolk, England. *Telephone:* 56161.

BRADBURY, Norris Edwin, B.A., PH.D.; American physicist; b. 30 May 1909; s. of Edwin Bradbury and Elvira Norris; m. Lois Platt 1933; three s.; ed. Pomona Coll., California, Univ. of Calif. and Massachussetts Inst. of Technology; Asst. Prof. of Physics, Stanford Univ. 1934-37, Assoc. Prof. 1937-42, Prof. 1942-51; Prof. of Physics, Univ. of Calif. 1951-70; Dir. Los Alamos Scientific Laboratory, New Mexico 1945-70; Capt. U.S. Naval Reserve 1941-61; Fellow of the Nat. Acad. of Sciences and of the American Physical Soc.; Enrico Fermi Award 1970. *Address:* 1451 47th Street, Los Alamos, New Mexico 87544, U.S.A. (Home).

BRADLEY, Gen. Omar Nelson; American business executive and retd. army officer; b. 12 Feb. 1893, Clark, Missouri; s. of John S. Bradley and Elizabeth Hubbard; m. 1st Mary Quayle 1916 (died 1965), 2nd Kitty Buhler 1966; one d.; ed. U.S. Military Acad., West Point; Second-Lieut. of infantry 1915; advanced through grades to Gen. of the Army Sept. 1950; Prof. of Mil. Science and Tactics, S. Dakota State Coll. Sept. 1919-20; Instructor in Hawaii 1925-28; graduated from Command and Gen. Staff School, Fort Leavenworth, Kan. July 1929; Instructor at Infantry School, Fort Benning,

Ga. 1929-33; graduated from War Coll., Washington June 1934; Instructor in Tactics, later Plans and Training Officer, West Point 1934-38; Asst. Sec., Gen. Staff July 1939-Feb. 1941; Commandant of Infantry School, Fort Benning Feb. 1941-Feb. 1942; commanded 82nd Infantry Div. Feb. 1942; commanded U.S. Second Corps in Tunisia and in invasion of Sicily 1943; commanded First U.S. Army during invasion of Europe 1944; later commanded 12th Army Group; Administrator of Veterans' Affairs 1945-47; Chief of Staff U.S. Army 1948-49; Chair. Joint Chiefs of Staff U.S. Dept. of Defense 1949-53; U.S. Rep., NATO Military Cttee. (Chair. 1949-50) and Standing Cttee. 1949-53; Chair. Bulova Research Devt. Laboratories, N.Y. 1953, Bulova Watch Co. 1958-73, Hon. Chair. 1973-; decorations incl. D.S.M. (3 Oak Leaf Clusters), D.S.M. of U.S. Navy, Legion of Merit with Oak Leaf Cluster, Silver Star, Bronze Star Medal, Hon. K.C.B. (U.K.), Grand Croix Légion d'honneur and Croix de Guerre avec palme (France), Order of Suvorov 1st degree and of Kutuzov 1st degree (U.S.S.R.), Medal of Freedom, and many other awards. *Publications:* A Soldier's Story 1951. *Leisure interests:* hunting, fishing, golf, writing. *Address:* 11000 Wilshire Boulevard, Suite 10206, Los Angeles, Calif. 90024, U.S.A.

BRADLEY, Thomas (Tom), LL.D.; American police officer and politician; b. 29 Dec. 1917, Calvert Tex.; s. of Lee and Crenner (Hawkins) Bradley; m. Ethel Arnold 1941; two d.; ed. Polytechnic High School, Univ. of California at Los Angeles, Southwestern Univ. Law School; served Los Angeles Police Dept. 1940-61, attained rank of Lieut.; Attorney at Law 1961-63; Councilman, Los Angeles 10th District 1963-73; Mayor, City of Los Angeles July 1973-; Democrat. *Leisure interests:* reading, jazz, home movies, sports. *Address:* Office of Mayor, City Hall, Los Angeles, Calif. 90012, U.S.A. *Telephone:* 485-3311.

BRADMAN, Sir Donald George, Kt.; Australian cricketer and company director; b. 27 Aug. 1908, Cootamundra, N.S.W.; s. of George and Emily Bradman; m. Jessie Menzies 1932; two s. (one decreased) one d.; ed. Bowral Intermediate High School; played cricket for N.S.W. 1927-34, for S. Australia 1935-49; played for Australia 1928-48, Capt. 1936-48; in test cricket made 6,996 runs (average 99.9), in all first-class cricket 28,067 runs (average 95); scored 117 centuries in first-class matches; mem. Australian Board of Control for Int. Cricket 1945-, Chair. 1960-63, 1969-72; Vice-Pres. S. Australia Cricket Assn. 1951-65, Pres. 1965-73, now Trustee and mem. Ground and Finance Cttee.; fmr. Australian Test Selector; fmr. mem. Stock Exchange of Adelaide; now Dir. many public cos.; Champion Mt. Osmond Country Club (Golf) 1936, 1949; fmr. S. Australia Amateur Squash Champion. *Publications:* Don Bradman's Book 1930, How to Play Cricket 1935, My Cricketing Life 1938, Farewell to Cricket 1950, The Art of Cricket 1958. *Leisure interests:* cricket, tennis, golf, squash. *Address:* 2 Holden Street, Kensington Park, South Australia 5068, Australia.

BRADSHAW, Thornton F.; American business executive; b. 4 Aug. 1917, Wash.; s. of Frederick and Julia See Bradshaw; m. 1st Sally Bradford Davis 1940, one s. two d.; m. 2nd Patricia S. West 1974; ed. Phillips Exeter Acad., Harvard Coll. and Harvard Graduate School of Business Admin; Assoc. Prof., Harvard Business School 1942-52; Partner, Cresap, McCormick and Paget, New York 1952-56; Dir. The Atlantic Refining Co., Philadelphia (now Atlantic Richfield Co.) 1956-, Vice Pres. 1956-62, Exec. Vice-Press. 1962-64, Pres. 1964-, mem. Exec. Cttee. 1966-; Dir. RCA Corpn., Champion Int., American Petroleum Inst., The Conf. Board, Foreign Policy Assn., Aspen Inst. for Humanistic Studies; mem Board Los Angeles World Affairs Council, Los Angeles Philharmonic Assn., Los Angeles Performing Arts Council; Trustee, Huntingdon Library and Art Gallery, Pasadena; mem. Board of Dirs. Security Pacific Nat. Bank, Security Pacific Corpn. Nat. Broadcasting Co.; Board of Trustees and Chair. Board of Fellows, Claremont Univ., Center; Visiting Cttee. of U.C.L.A. Graduate School of Management; Visiting Cttee. for Div. of Chemistry and Chemical Engineering, Calif. Inst. of Technology, Visiting Cttee. to the J. F. Kennedy School of Govt., Visiting Cttee. on Univ. Resources, mem. Board of Overseers, Harvard Univ., Board of Center for Educ. in Int. Man.; Chair. Arms Control Panel of UNA-U.S.A. Soviet-American Parallel Studies Project. *Publications:* Controllership in Modern Management 1949, Developing Men for Controllership 1950. *Leisure interests:* boating, tennis, swimming. *Address:* Atlantic Richfield Co., 515 South Flower Street, Los Angeles, Calif. 90071, U.S.A. *Telephone:* (213) 486-1738.

BRÆK, Ola Skjåk; Norwegian banker and politician; b. 4 Feb. 1912, Eidsvoll; s. of Gudbrand and Elisabeth (Fisher) Bræk; m. Ingeborg Wergeland 1938; two s. one d.; Lawyer, Ullensaker 1936-38; Asst. judge, Eidsvoll 1938-40; Insp. Norwegian Bank Inspection Board, Oslo 1940-50; Chief Man. Dir. Sunmøre Kreditbank A/S, Aalesund 1950-; Chair. Board Statens Fryseri Aalesund 1956-70; mem. Board, Norinvest A/S Oslo 1962-65, A/S Forretningsbankenes Finansierings—og Eksportkredittinstitutt 1962-, A/S Olivin, Aaheim, Statens Kornforretning 1967-70, Fondet for nye industrielle tiltak, Oslo 1969-; Chair. Council, Regional Banks in Norway 1971–; Chair. Board of Reps. Sunmøre Fiskeindustrie A/S, Aalesund 1970–; mem. board of reps of several other orgs.; First Deputy mem. Storting 1965-68; Minister of Industry and Handicraft 1972-73. *Leisure interest:* angling. *Address:* Sunmöre Kreditbank A/S Korsegatan 8, Ålesund; 6001 Ålesund, Norway.

BRAGA, Ney; Brazilian politician; b. 25 July 1917; ed. in Curitiba and Escola Militar de Realengo; Second Lieut. 1938, rising to Reserve Brig.-Gen. in 1963 on retirement from army; Chief of Police for Paraná 1952-54, Prefect 1954-58; Fed. Deputy 1958; Gov. of Paraná 1960-65; responsible for the creation of various companies during his governorship including Companhia de Desenvolvimento Econômico do Paraná (CODEPAR) and Companhia Paranaense de Energia (Elétrica (COPEL); mem. Senate 1965, 1966-; Minister of Agriculture 1965-66, of Educ. and Culture 1974-78; Pres. Council for the Extreme South (CODSEUL) 1963; Christian Democrat (Nat. Pres.); Dr. h.c. Univ. of Paraná; numerous honours and awards. *Address:* c/o Ministério da Educação e Cultura, Esplanada dos Ministérios, Bloco H, Brasília, D.F., Brazil.

BRAHIMI, Lakhdar; Algerian diplomatist; b. 1934; ed. Medersa Algiers, Faculté de Droit et Institut des Sciences Politiques, Algiers, then Paris. Student Leader 1953-56; Algerian Front of Nat. Liberation (F.L.N.) to 1956; Perm. Prep. of F.L.N. and later of Provisional Govt. of Algeria in S.E. Asia 1956-61; Gen. Secretariat, Ministry of External Affairs 1961-63; Amb. to U.A.R. (Egypt) and Sudan 1963-69; Perm. Rep. to Arab League 1963-70; Amb. to U.K. 1971-. *Address:* Algerian Embassy, 6 Hyde Park Gate, London, S.W.7 5EW, England.

BRAIDWOOD, Robert John, PH.D.; American archaeologist and anthropologist; b. 29 July 1907, Detroit; s. of Walter Braidwood and Rhea Nimmo; m. Linda Schreiber 1937; one s. one d.; ed. Michigan, Berlin and Chicago Univs.; field archaeology in Iraq, Illinois, Syria, New Mexico, Turkey and Iran; Prof. Emer. of Old World Prehistory and Field Dir. of prehistoric project, Oriental Inst., Prof. Emer., Dept. Anthropology, Univ. of Chicago 1954-; Fellow, American Acad. of Arts and Sciences, Nat. Acad. of Sciences, American Philosophical Soc.; Hon. Fellow, Soc. of Antiquaries, London; Corresp. mem. Deutsches Archäologisches Institut, Österreichische Akademie der Wissenschaft, etc.; Dr. h.c. (Indiana) 1972, (Sorbonne) 1975. *Publications:* Excavations in the plain of Antioch I (with Linda Braidwood), Prehistoric investigations in Iraqi Kurdistan (with Bruce How, et al.). *Address:* Prehistory Laboratory, Oriental Institute, Univ. of Chicago, Ill. 60637, U.S.A.

BRAINE, John Gerard, A.L.A.; British author; b. 13 April 1922; s. of Fred and Katharine Braine; m. Helen Patricia Wood 1955; one s. three d.; ed. St. Bede's Grammar School, Bradford and Leeds School of Librarianship; Asst. Librarian, Bingley Public Library 1940-51; Branch Librarian, Northumberland County Library 1954-56, Yorkshire West Riding County Library 1956-57; mem. BBC North Region Advisory Council 1960-64. *Publications:* Room at the Top 1957, The Vodi 1959, Life at the Top 1962, The Jealous God 1964, The Crying Game 1968, Stay With Me Till Morning 1970, The Queen of a Distant Country 1972, Writing ■ Novel 1974, The Pious Agent 1975, The Stirrer (play) 1975, Waiting for Sheila 1976, Finger of Fire 1977. *Leisure interests:* walking, talking, model-making, Victoriana, painting. *Address:* Pentons, Onslow Crescent, Woking, Surrey, England. *Telephone:* Woking 67014.

BRAITHWAITE, Eustace Adolphe, M.SC.; Guyanese author and diplomatist; b. 27 June 1912; ed. New York Univ. and Cambridge Univ.; Royal Air Force, Second World War; schoolteacher, London 1950-57; Welfare Officer, London County Council 1958-60; Human Rights Officer, World Veterans Foundation, Paris 1960-63; Lecturer and Educ. Consultant, UNESCO, Paris 1963-66; Perm. Prep. of Guyana to UN 1967-68; Amb. to Venezuela 1968-69; Ainsfield Wolff Literary Award for To Sir, With Love. *Publications:* To Sir, With Love 1959 (film 1967), A Kind of Homecoming 1961, Paid Servant 1962, A Choice of Straws, 1965, Reluctant Neighbours 1972. *Address:* c/o Timber Trails Club, Sherman, Conn. 06784, U.S.A.

BRAMALL, Gen. Sir Edwin (Noel Westby), K.C.B., O.B.E., M.C.; British army officer; b. 18 Dec. 1923; s. of Major Edmund Hazeldean Bramall and Katherine Bridget (Westby) Bramall; m. Dorothy Avril Wentworth Vernon 1949; one s. one d.; ed. Eton Coll.; commissioned in Kings Royal Rifle Corps 1943, served in North-west Europe 1944-45; occupation of Japan 1946-47; Instructor, School of Infantry 1949-51; served Middle East 1953-58; Instructor, Army

Staff Coll. 1958-61; on staff of Lord Mountbatten with special responsibility for reorg. of Ministry of Defence 1963-64; CO 2nd Royal Green Jackets 1965-66; Command, 5th Airportable Brigade 1968-69; G.O.C 1st Div. BAOR 1970; rank of Lieut. Gen. 1973; Commdr. British Forces Hong Kong 1973-76; Col. Commdt. 3rd Royal Green Jackets 1973-; Coll. 2nd KEO Gurkhas 1976-; rank of Gen. 1976; C.-in-C. U.K. Land Forces 1976-78; Vice-Chief of Defence Staff (Personnel and Logistics) 1978; Chief of Army Staff July 1979-. *Address:* 8 The Close, Winchester, Hants., England.

BRANCA, Vittore (Felice Giovanni), D.LITT.; Italian educationist; b. 9 July 1913, Savona; m. Olga Montagner 1938; one s. three d.; ed. Univ. of Pisa; Prof. Accad. della Crusca, Florence 1937-48; Prof. of Italian Literature, Maria Assunta Univ., Rome 1948-50; Prof. of Italian Literature, Univ. of Catania 1950-53, Univ. of Padua 1953-; Rector Univ. of Bergamo 1968-72; Head, Div. of Arts and Letters, UNESCO 1950-53; Vice-Pres. Nat. Italian Comm. of UNESCO; Pres. Int. Assen. for Study of Italian Language and Literature; Vice-Pres. Fondazione Giorgio Cini; mem. Cttee. Int. Fed. of Modern Languages and Literatures; literary adviser to publishing houses; Editor Lettere Italiane and Studi sul Boccaccio (magazines) and of numerous series of classical texts and essays; mem. Accad. dei Lincei, Accad. Arcadia, Istituto Veneto Scienze Lettere Arti, Accad. Polacca della Scienze, Acad. du Monde Latin (Inst. de France), Medieval Acad. of America, Hon. mem. Modern Language Assen. of America, American Acad. of Arts and Sciences; Dr. h.c. (Univs. of Budapest, New York, Paris Sorbonne and Bergamo); Gold Medal of Italian Ministry of Educ. *Publications:* editions and critical studies of San Francesco, Petrarca, Boccaccio, Poliziano, Alfieri, Manzoni, other classical authors and Romanticism; methodological works including Dizionario critico della litteratura italiana 1974, Filologia e critica 1977. *Address:* San Marco 2885, Venice, Italy. *Telephone:* 89-819.

BRANCH, Harllee, Jr., B.A., LL.B.; American business executive (retd.); b. 21 June 1906, Atlanta, Ga.; s. of Harllee Branch and Bernice Simpson Branch; m. Katherine Hunter 1932; three s. one d.; ed. Boys High School, Atlanta, Davidson Coll., N. Carolina, and Lamar School of Law, Emory Univ., Atlanta; Dir., Fed. Reserve Bank of Atlanta 1953-55; Pres. Southeastern Electric Exchange 1954-55, Edison Electric Inst. 1955-56; Pres. and Dir. The Southern Co. 1957-69, Chair. of Board 1969-71; Chair. of Board, Southern Services Inc. 1961-71; Vice-Pres. and Dir. Alabama, Georgia, Gulf and Mississippi Power Companies 1957-68; mem. U.S. Business Advisory Council 1962-, Nat. Comm. on Productivity 1970-71; Dir. Nat. Center for Voluntary Action 1970-71; Senior Fellow Woodrow Wilson Nat. Fellowship Foundation 1973-; Hon. LL.D., Hon. D.H.L. *Leisure interests:* golf, fishing. *Address:* 3106 Nancy Creek Road, N.W., Atlanta, Ga. 30327, U.S.A. *Telephone:* (404) 355-7906.

BRAND, Lindsay Brownfield, O.B.E., M.A., A.I.A.; Australian financial official; b. 29 Nov. 1916, Melbourne; s. of Walter Edgar and Mabel Eliza Brand; m. Betty Rosalind Delpratt 1947; two s.; ed. Univ. of Melbourne; with Bureau of Census and Statistics, Canberra 1939-40, 1946-54; Served, Royal Australian Navy 1940-46; with Australian Treasury 1954-70, 75-; Sec. Australian Loan Council 1955-70; mem. Decimal Currency Board 1963-68; Exec. Dir. IMF 1970-75. *Leisure interests:* tennis, golf. *Address:* The Teasury, Canberra, A.C.T. 2600 (Office); 9 Grey Street, Deakin, A.C.T. 2000, Australia (Home).

BRANDI, Cesare, PH.D.; Italian author and art critic; b. 8 April 1906; ed. Univs. of Siena, Pisa and Florence. Inspector for the Superintendence of the Monuments and Galleries of Siena 1933-39; founder and Dir. Central Restoration Inst., Rome 1939-; started publishing Immagine (a review) 1948, and the Bollettino of the Inst. 1950; Superintendent, Dept. of Antiquities and Fine Arts 1953-; Commendatore dell'Ordine al Merito della Repubblica 1954. *Publications:* Rutilio Manetti 1932, La R. Pinacoteca di Siena 1933, Mostra della pittura riminese del '300 1935, Giotto 1938, Carmine o della pittura condue saggi su Duccio Picasso 1947, Morandi 1942, Giovanni di Paolo 1947, Quattrocentisti senesi 1949, La fine dell'avanguardia 1950, La fine del l'avanguardia e l'arte di oggi 1952, Duccio 1951, Celso o della poesia 1957, Teoria generale della critica, etc. *Address:* Piazza S. Francesco di Paola 7, Rome, Italy.

BRANDO, Marlon; American actor; b. 3 April 1924; m. 1st Anna Kashfi 1957 (divorced 1959); one s.; m. 2nd Movita Brando (divorced); one c.; ed. Shattuck Military Acad.; Academy Award for the best actor of the year 1954, Golden Globe Award for the most popular actor of 1972; refused Oscar for The Godfather 1973; has appeared in the plays I Remember Mama, Candida, A Flag is Born, The Eagle has Two Heads, A Streetcar Named Desire, etc., and the films The Men 1950, A Streetcar Named Desire 1951, Viva Zapata 1952, Julius Caesar 1953, The Wild Ones 1953, Desirée 1954, On the Waterfront 1954, Guys and Dolls 1955, Teahouse of the August Moon 1956, Sayonara 1957, The Young Lions 1958, The Fugitive Kind 1960, The One-Eyed Jacks (also Dir.) 1960, Mutiny on the Bounty 1962, The Ugly American 1963, Bedtime Story 1964, The Saboteur 1965, The Chase 1966, Appaloosa 1966, A Countess from Hong Kong 1967, Southwest to Sonora 1966, Reflections in Golden Eye 1967, Candy 1968, The Night of the Following Day 1969, Queimada 1970, The Nightcomers 1971, The Godfather 1972, Last Tango in Paris 1972, The Missouri Breaks 1975, Apocalypse Now 1977, Superman 1978. *Address:* c/o Screen Actors' Guild, 7950 West Sunset Boulevard, Hollywood, Calif. 90046; Hawley Road, Mundelein, Ill. 60060, U.S.A. (Home).

BRANDON, Henry; British journalist; b. 3 Sept. 1916, Liberec, Czechoslovakia; s. of Oscar and Ida Brandon; m. Mabel H. Brandon 1971; one d.; ed. Prague and Lausanne Univs.; with The Sunday Times, London 1939-, War Corresp. in N. Africa and W. Europe 1943-45, Paris Corresp. 1945-46, Roving Diplomatic Corresp. 1947-49, Washington Corresp. and Chief American Corresp. 1950-; Foreign Corresp. Award, Univ. of Calif. 1957, Lincoln Univ. Award, Mo. 1962, Hannen Swaffer Award 1964. *Publications:* As We Are 1961, In the Red 1966, Conversations with Henry Brandon 1966, The Anatomy of Error 1970, The Retreat of American Power 1973. *Leisure interests:* skiiing, tennis, swimming, photography. *Address:* 814 National Press Building, Washington, D.C. 20045, U.S.A. *Telephone:* (202) 628-4310.

BRANDT, Cornelis J.; Netherlands executive and journalist; b. 14 Feb. 1913, Amsterdam; m. W. J. van den Bosch 1937; two s.; ed. Netherlands Inst. of Chartered Accountants; began career as accountant and Sec. to agricultural and banking organizations; Acting Editor-in-Chief Amsterdamsche Effectenblad and Het Financieele Dagblad 1943-49; Financial Editor De Telegraaf 1949-52, Editor-in-Chief 1952-, Man. Dir. 1964-. *Publications:* Preference Shares 1946. *Address:* De Telegraaf, P.O. Box 376, Basisweg 30, Amsterdam, Netherlands (Office). *Telephone:* 020-421023.

BRANDT, Gen. Jürgen; German army officer; b. 19 Oct. 1922, Kiel; s. of Wilhelm and Marie Brandt; m. Martha Brandt 1948; one s. two d.; joined army 1942, rank of Second Lieut., World War II; journalist 1947-50; mem. of planning staff for re-armament of Federal Repub. 1950-57; various assignments, Armoured Infantry 1957-60; student, Armed Forces Gen. Staff Coll. 1961-63; Operations officer, Armoured Infantry Brigade 1963-66, Deputy Commdr. 1969-70; Personal Staff Officer to C.-in-C., Allied Forces Cen. Europe 1966-69; Chief of Politico-Military Policies Section, Federal Armed Forces Staff 1970-73, Deputy Asst. Chief of Staff, Politico-Military Affairs and Operations 1973-74, Asst. Chief of Staff 1975-78; German Rep. to Military Cttee. of NATO 1978-; Inspector-Gen. of Bundeswehr 1978-; Commdr. 10th Panzer Div. 1974-75; Iron Cross (First and Second Class); Wound Badge in Black; Officer of Order of Merit, Federal Repub. of Germany; Grand Cross, Order of Merit (First Class) Egypt. *Leisure interests:* military and political affairs, gardening. *Address:* Postfach 1328, 5300 Bonn 1, Federal Republic of Germany.

BRANDT, Willy; German politician; b. (as Herbert Ernst Karl Frahm) 18 Dec. 1913, Lübeck; s. of Martha Frahm; m. Rut Hansen 1948; three s. one d.; ed. Lübeck and Oslo Univ.; apprentice shipbroker 1932; emigrated to Norway 1933; journalist and Sec. of Norwegian charity 1933-40; German and Norwegian resistance movements 1940-45; journalist and Norwegian Press Attaché in Berlin 1945-48; Chief Editor Berliner Stadtblatt 1950-51; Sec. Exec. Cttee. of SPD in Berlin 1948-49, mem. 1950-63, Deputy Chair. 1954-58, Chair. 1958-63; Deputy Chair. SPD 1962-64, Chair. 1964-; mem. Berlin Chamber of Deputies 1950-69, Pres. 1955-57; Gov. Mayor of Berlin 1957-66; mem. Federal Parl. (Bundestag) 1949-57, 1969-; Pres. Fed. Council (Bundesrat) 1957-58; Pres. Deutscher Städetag 1958-63; Minister of Foreign Affairs and Vice-Chancellor Fed. Germany 1966-69; Fed. Chancellor 1969-74; Pres. Socialist Int. 1976; Chair. Independent Comm. on Devt. Issues 1977; mem. European Parl. 1979-; Senator Max-Planck Assen.; numerous hon. degrees and foreign decorations; Nobel Peace Prize 1971, Reinhold Niebuhr Award 1972, Aspen Inst. for Humanistic Studies Prize 1973; Social Democrat (SPD). *Publications include:* Krigen i Norge 1945, Ernst Reuter (with R. Lowenthal) 1957, Von Bonn nach Berlin 1957, My Road to Berlin 1960, The Ordeal of Co-existence 1963, Begegnung mit Kennedy 1964, Draussen (with G. Struve) 1966, Schriften Während der Emigration 1966, A Peace Policy for Europe 1968, Der Wille sum Frieden 1971, Über den Tag Linaus 1974, Briefe und Gespräche 1972 bis 1975, Zusammen mit Bruno Kreisky and Olof Palme 1975, Willy Brandt/Helmut Schmidt: Deutschland 1976—zwei Sozialdemokraten im Gespräch 1976, Begegnungen und Einsichten 1976, People and Politics 1960-1975

1978. *Leisure interests:* reading, fishing, swimming. *Address:* Sozialdemokratische Partei Deutschlands, Erich-Ollenhauer-Haus, 5300 Bonn, Federal Republic of Germany. *Telephone:* 5321.

BRANDYS, Kazimierz; Polish writer; b. 27 Oct. 1916, Łódź; s. of Henryk Brandys and Eugenia Landau; m. Maria Zenowicz 1944; ed. Univ. of Warsaw. Co-Editor Kuźnica Odrodzenie, after war (weekly), Cracow 1946-49 and of Nowa Kultura 1956-58; mem. Exec. Cttee. Polish Writers' Union; State Literary Prize 1950, Warsaw Literary Prize 1948, State Prize 1955, Premio Elba (Italy) 1964, Officer's Cross, Order of Polonia Restituta 1952, Order of Banner of Labour 2nd Class 1954. *Publications, novels:* The Invincible City 1946, The Wooden Horse 1946, Between the Two Wars (4 vols.) 1948-51, The Citizens 1954, The Red Cap 1956, Defence of Granada (apology for writers and actors) 1956, Matka Królów (Sons and Commanders, English edn.) 1957, Listy do pani Z. (Letters to Mrs. Z.) 1958-61, Romantyczność (Romanticism) 1960, Sposób bycia (The Way to be) 1964, Dżoker (Joker) 1966, Rynek (The Market Place) 1968, Jak być kochaną (How to be Loved) 1970, Mała księga (A Little Book) 1970, Wariacje pocztowe (Postal Variations) 1972, Pomysł (The Concept) 1974, Nowele filmowe (Short Feature Films) 1975, Nierzeczywistość (Unreality) 1978. *Address:* Nowomiejska 5m.5, 00-271 Warsaw, Poland. *Telephone:* 31-37-42.

BRANSCOMB, B. Harvie, B.A., PH.D., D.LITT., LL.D., D.H.L.; American educationist; b. 25 Dec. 1894, Huntsville, Ala.; s. of Lewis C. Branscomb and Nancy McAdory; m. Margaret Vaughan 1921; three s.; ed. Birmingham-Southern Coll., Oxford and Columbia Univs.; Asst. Prof. Southern Methodist Univ. 1919-25; Prof. Duke Univ. 1925-46; Dir. Univ. Libraries, Duke Univ. 1932-37; Dean Divinity School 1944-46; Chancellor Vanderbilt Univ. 1946-63; Consultant to World Bank on Educational Policy 1962-63; Trustee, Gen. Educ. Board 1947-63; Chair. U.S. Educational Exchange Advisory Comm. 1947-51; Chair. Comm. on Education and Int. Affairs, American Council of Education 1958; Chair. U.S. Nat. Comm. for UNESCO; Del. Gen. Conf., WHO 1965 and 1966; Chair. U.S. Del., World Conf. on Illiteracy 1965, Conf. of Ministers of Educ. of Latin American countries 1966; mem. U.S. Nat. Advisory Health Council 1963-67; Consultant, Acad. Educational Devt. 1967–; Dir. Tennessee Fine Arts Center, Parthenon Fund; Trustee, several educational orgs.; Médaille du Roi Albert (Belgium), Médaille de la Reine (Belgium), Commdr. Order of the Southern Cross (Brazil). *Publications:* The Message of Jesus 1925, Jesus and the Law of Moses 1930, The Teachings of Jesus 1931, The Gospel according to Mark 1937, Teaching with Books 1940, Purely Academic 1978. *Leisure interest:* archaeological remains of the American Indians. *Address:* 1620 Chickering Road, Nashville 15, Tenn. 37215, U.S.A. *Telephone:* (615) 269-6821.

BRANSCOMB, Lewis McAdory, M.S., PH.D.; American physicist; b. 17 Aug. 1926, Asheville, N.C.; s. of Dr. and Mrs. Harvie Branscomb; m. Anne Wells 1951; one s. one d.; ed. Duke and Harvard Univs.; Instructor in Physics, Harvard Univ. 1950; Lecturer in Physics, Univ. of Maryland 1950-51; Chief, Atomic Physics Section, Nat. Bureau of Standards, Washington, D.C. 1954-60, Chief Atomic Physics Div. 1960-62; Chair. Joint Inst. for Laboratory Astrophysics 1962-65, 1968-70; Chief, Lab. Astrophysics Div., Nat. Bureau of Standards, Boulder, Colo. 1962-69; Dir. Nat. Bureau of Standards 1969-72; Chief Scientist, Vice-Pres. IBM Corpn. 1972-; mem. Board, General Foods Corpn., Mobil Corpn.; mem. Nat. Acad. of Sciences, Inst. of Medicine, Nat. Acad. of Eng.; Fellow, American Acad. of Arts and Sciences, American Philosophical Soc.; Chair. Nat. Acad. of Sciences Cttee. on Scholarly Communication with People's Repub. of China; Trustee, Carnegie Inst. of Washington, Rand Corpn., Polytechnic Inst. of New York; several awards and hon. degrees. *Publications:* numerous articles in professional journals. *Leisure interest:* sailing. *Address:* IBM Corpn., Armonk, N.Y. 10504, U.S.A. *Telephone:* (914) 765-6467.

BRASSENS, Georges; French musician; b. 22 Oct. 1921, Sète (Mérault); s. of Jean Brassens and Elvira Dagrosa; ed. Coll. de Sète, Lycée de Montpellier; composer and singer of songs in cabarets and music halls 1952-; acted in and composed music and songs for the film Porte des Lilas 1956; songs include La Mauvaise Réputation, Le Gorille, Le Fossoyeur, Hécatombe, etc.; Grand prix du Disque 1964; Prix de poésie, Acad. Française 1967. *Publications:* La Tour des Miracles (novel), Poèmes et Chansons (collection of poems and songs). *Address:* c/o Pierre Onténiente, 138 boulevard du Montparnasse, 75014 Paris, France.

BRASSEUR, Maurice Paul; Belgian politician; b. 1909.; Teacher, Namur and Mons; served with Resistance 1940-45; Burgomaster, Loverval 1941-65; Minister of the Interior 1950-52; mem. Chamber of Reps. 1949-65, Vice-Pres. 1958-61; Minister of Foreign Trade and Technical Assistance to under-developed countries 1961; Gov. for Province of Luxembourg 1965-; mem. of many Belgian missions abroad; numerous Belgian and foreign decorations, incl. Grand Croix de l'Ordre de Léopold II; Christian Socialist. *Address:* Palais Provincial, Arlon, Belgium.

BRATBY, John, R.A., A.R.CA., F.I.A.L., F.R.S.A., R.B.A.; British painter; b. 19 July 1928; m. 1st Jean Cooke 1953 (divorced), three s. one d.; m. 2nd Patti Prime 1977; ed. Tiffin Boys School, Kingston Art School, Royal Coll. of Art, London; Works in Tate Gallery, London, Nat. Gallery of Canada, Nat. Gallery of New South Wales, New York Museum of Modern Art, Walker Art Gallery, Arts Council, Glasgow Museum of Art, etc.; rep. at Pittsburgh Int. Festival 1955, 1957, Venice Biennale 1956; executed painting for the film The Horse's Mouth 1958; Guggenheim Nat. Award 1956 and 1958. *Publications:* Breakdown 1960, Breakfast and Elevenses 1961, Brake-Pedal Down 1962, Break 50 Kill 1963, Stanley Spencer. *Leisure interests:* sex, garden care, preservation of local buildings, eating out, drinking beer, philosophy. *Address:* The Cupola, Belmont Road, Hastings, East Sussex, England. *Telephone:* 0424-434037.

BRATCHENKO, Boris Fedorovich; Soviet mining engineer, economist and politician; b. 9 Oct. 1912; worked at coal mines in Rostov Region 1935-49, at big combine in Karaganda, Kazakhstan 1949-53; Govt. posts 1953-; Vice-Chair. Council of Ministers of Kazakhstan 1961-65; Chair. Kazakh State Planning Cttee. 1961-65; Minister of Coal Industry 1965-; Candidate mem. Cen. Cttee. of CPSU 1966-71, mem. 1971-; Deputy to U.S.S.R. Supreme Soviet 1962-; mem. CPSU 1940-; U.S.S.R. State Prize, Order of Lenin (twice). *Address:* Ministry of Coal Industry, 23 Building 2, Prospekt Kalinina, Moscow, U.S.S.R.

BRATSIOTIS, Panayotis, D.TH.; Greek university professor; b. 26 July 1889, Thebes; s. of John and Aphrodite Bratsiotis; m. Euphrosyne Trembelas 1927; three s. one d.; ed. Athens, Leipzig and Jena Univs. Prof., Pedagogical Acad. of Piraeus 1915-22; Prof. of Biblical Science, Athens Univ. 1925-29, Prof. of Old Testament 1929, Rector of Univ. 1955-56; mem. Acad. of Athens 1955, Pres. 1960; foreign mem. Royal Flemish Acad. of Brussels; Hon. D.D. (Glasgow, Thessalonika Univs.). *Publications:* St. John Baptist 1921, Christianity and Culture 1940, Humanism and Christianity, Social Thought of the Old Testament, Commentary to the Apocalypse of St. John 1950, Commentary to the Ecclesiastes 1952, Introduction to the Old Testament 1955, Commentary to Isaiah, Chap. 1-12 1956, Meaning of Christian Agape 1956, Die Orthodoxe Kirche in griechischer Sicht 1959-60, Ein orthodoxes Bekenntnis 1966; collaborated on Bible Oecuménique, Paris 1965. *Leisure interest:* harmonium. *Address:* Akadimia Athinon, Odos Panepistimiou, Athens; Apostel Paulus Street 5, Agia Paraskevi, Athens, Greece. *Telephone:* 6592757.

BRATTAIN, Walter H., B.S., M.A., D.PHIL.; American research physicist; b. 10 Feb. 1902, Amoy, China; s. of Ross and Ottilie Houser Brattain; m. 1st Keren Gilmore 1935 (deceased), 2nd Emma Jane (Kirsch) Miller 1958; one s.; ed. Whitman Coll., Oregon and Minnesota Univs.; Research physicist Radio Section, Bureau of Standards 1928-29, Bell Telephone Laboratories Inc. 1929-41, 1944-67; Columbia Univ. War Research Div. 1942-43; Visiting Lecturer, Harvard Univ. 1952-53; Visiting Prof. of Physics, Whitman Coll., Walla Walla, Wash., Overseer Emer. 1972-; mem. Nat. Acad. of Sciences; Stuart Ballantine Medal 1952, John Scott Medal 1955 (both with Dr. John Bardeen, *q.v.*), Nobel Prize in Physics 1956 (with Dr. John Bardeen and Dr. William Shockley, *q.v.*), Nat. Inventors Hall of Fame 1974; Fellow, American Physical Soc., American Acad. of Arts and Sciences, mem. Franklin Inst.; Hon. D.Sc. (Minnesota and Portland Univs., Whitman, Gustavus Adolphus and Union Colls.); Hon. D.Hum.Litt. (Hartwick Coll.). *Leisure interests:* golf, fishing, reading. *Address:* Whitman College, Walla Walla, Wash. 99362, U.S.A. *Telephone:* (509) 527-5223.

BRATTELI, Trygve Martin; Norwegian journalist and politician; b. 11 Jan. 1910, Nøtterøy; s. of Terje Hansen Bratteli and Martha Barmen; m. Randi Helene Larssen 1946; one s. two d.; ed. public elementary school; Editor Socialist newspaper Folkets Frihet 1934; Editor fortnightly journal Arbeider-Ungdommen; Sec. Labour League of Youth 1934-40, Chair. 1945-46; Vice-Chair. Norwegian Labour Party 1945-65, Chair. 1965-75; Chair. Defence Cttee. 1946, Finance Cttee. 1950-51; M.P. 1950-; Minister of Finance 1951-55 and 1956-60, of Communications 1960-64; mem. Nordic Council 1956-57, Pres. 1978-, Electoral Cttee. 1964-71; Chair. Labour Party Parl. Group 1964-71, 1972-73, 1976; Prime Minister 1971-72, 1973-76. *Publications:* Aktuell ungdomspolitikk 1940, Ungdommen og samfunnet 1946, Hva mener vi med sosialisme? 1977. *Leisure interest:* open-air life. *Address:* Ullevålsvegen 58, Oslo 1, Norway (Home).

BRAUCHITSCH, Eberhard von; German industrialist; b. 28 Nov. 1926, Berlin; m. Dr. Helga Hempe; four c.; ed. legal and econ. studies, Amsterdam and Berlin; admitted to the Bar 1954; Asst. to Man. Board Deutsche Lufthansa AG, Köln 1955; Man. Deutsche Flugdienst G.m.b.H., Frankfurt 1957; Man. Friedrich Flick K.G., Düsseldorf 1960, Gen. Partner 1965; Gen. Man. Axel Springer Publishing Co., Berlin 1971; Gen. Partner Friedrich Flick K.G. Düsseldorf 1973; Chair. and mem. various Boards. *Address:* 15 Mönchenwerther Strasse, 4 Düsseldorf-Oberkassel, Federal Republic of Germany.

BRAUDEL, Fernand, D. ès L.; French historian; b. 24 Aug. 1902, Luméville (Meuse); m. Paule Pradel 1933; two d.; ed. Lycée Voltaire, Paris and the Sorbonne, Prof. Algiers 1923-32; Lycées Condorcet and Henri IV, Paris 1932-35; Faculty of Arts, São Paulo 1935-38; Ecole Pratique des Hautes Etudes 1938-39, 1945-; Prof. Coll. de France 1949-72, Hon. Prof. 1972-; Admin. Maison des Sciences de l'Homme 1963-; Dr. h.c. (São Paulo, Madrid, Brussels, Geneva, Oxford, Cologne, Warsaw, Chicago, Cambridge, Florence, Padua, London, Hull, Leiden, Norwich, St. Andrews). *Publications:* La Méditerranée et le monde méditerranéen a l'époque de Philippe II 1949 (2nd edn. 1967), Vol. II 1973, Navires et marchandises à l'entrée du port de Livourne, 1547-1611 (with R. Romano) 1951, Le monde actuel 1963, Ecrits sur l'histoire 1969, Civilisation matérielle et capitalisme Vol. 1 1968, Vol. II 1977, Histoire économique et sociale de la France Vol. III 1977. *Address:* 59 rue Brillat-Savarin, 75013 Paris, France.

BRAUER, Erich; Austrian artist; b. 4 Jan. 1929, Vienna; s. of Simon Moses Brauer and Hermine Brauer; m. Neomi Dahabani 1957; three d.; ed. Wiener Kunstakademie; forced labour, Vienna 1942-45; after studies in Vienna travelled in France, Spain, Africa, Greece and Israel 1951-58, U.S.A. and Europe 1958-70, Ethiopia 1970, U.S.A., Japan 1971-72; one-man exhbns. 1956-, in Austria, Germany, Switzerland, France, Denmark, Liechtenstein, Italy, Israel and U.S.A.; world travelling exhbn. 1979; groups exhbns., incl. travelling exhbns, with Wiener Schule des Phantastischen Realismus 1962-, in W. Europe, U.S.A., S. America, Poland, Yugoslavia, Israel, Iran, Turkey, Japan; Scenery for The Seven Mortal Sins (Vienna 1972), Bomarzo (Zurich 1970); scenery and costumes for Medea (Vienna 1972), The Magic Flute (Paris 1977); book, design and costumes for Sieben Auf Einen Streich (Vienna 1978); two gold records for Erik Brauer LP (poetry, music and songs) 1971. *Publication:* Zigeunerziege 1977. *Leisure interests:* Alpinist, skiing, windsurfing. *Address:* c/o Joram Harel Management, P.O. Box 145, A-1013 Vienna, Austria. *Telephone:* 34-71-60.

BRAUER, Jerald Carl, A.B., B.D., PH.D.; American church historian and educator; b. 16 Sept. 1921, Fond du Lac, Wisconsin; s. of Carl L. and Anna M. Brauer; m. Muriel I. Nelson 1945; two s. one d.; ed. Carthage Coll., Northwestern Lutheran Theological Seminary and Univ. of Chicago; Instructor, Church History and History of Christian Thought, Union Theological Seminary, New York City 1948-50; Asst. Prof. of Church History, Federated Theological Faculty, Univ. of Chicago 1950-54, Assoc. Prof. 1954-59, Prof. 1959-; Dean, Federated Theological Faculty 1955-60; Visiting Prof. Univ. of Frankfurt 1961; Naomi Shenstone Donnelley Prof. History of Christianity 1969-, Dean, Divinity School 1960-70; Visiting Lecturer Univ. of Tokyo and Kokugakin Univ. 1966; mem. Board of Augustana Coll.; mem. Board of Theological Educ., Lutheran Church in America 1961-70; Pres. 1961-68; mem. Board of Govs., International House 1970-, Pres. 1973-; Fellow, Center for Policy Studies, N.Y. Educ. Dept. 1969-, Nat. Endowment of the Humanities 1977-78; Visiting Fellow, Center for the Study of Democratic Insts. 1972, 1974; Trustee, Council on Religion and Int. Affairs; Del. of Lutheran Church in America to Lutheran World Fed. Assembly, Helsinki 1963; Observer to Vatican Council Sessions 1964, 1965; mem. American Soc. of Church History, Pres. 1961; Hon. D.D. (Miami), Hon. L.L.D. (Carthage Coll.), Hon. S.T.D. (Ripon Coll.), Hon. L.H.D. (Gettysburg Coll.). *Publications:* Protestantism in America 1953, rev. edn. 1966, Luther and the Reformation (with Jaroslav Pelikan) 1953, Basic Questions for the Christian Scholar 1954; Editor: The Future of Religions by Paul Tillich 1966, Essays in Divinity (8 vols.) 1967, My Travel Diary by Paul Tillich 1970, Westminster Dictionary of Church History 1971, Religion and the American Revolution 1976. *Leisure interests:* painting, music, drama. *Address:* Swift Hall 207, Univ. of Chicago, Chicago, Ill. 60637 (Office); 5620 South Blackstone Avenue, Chicago, Ill. 60637, U.S.A. (Home). *Telephone:* 753-4061 (Office); 493-6886. (Home)

BRAUN, Ferdinard; Luxembourg administrator; b. 14 March 1925, Esch-sur-Alzette; joined EEC 1958, Chef de Cabinet to Head of Luxembourg del. to EEC Comm., then Chef de Div., Secr.; Dir. for Industry, Commerce and Crafts, Directorate-Gen. of Internal Market 1961; mem. del. to negotiations of Kennedy Round; Chef de Cabinet to Luxembourg mem. of Comm. responsible for transport 1967-68; Principal Adviser Directorate-Gen. of Industrial Affairs 1968-69, Asst. Dir.-Gen. 1969-73; Dir.-Gen. of Internal Market 1973-. *Address:* Directorate-General of Internal Market, Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium. *Telephone:* 35 00 40; 35 80 40.

BRAUN, Baron Sigismund von; German diplomatist; b. 15 April 1911, Berlin; s. of the late Baron Magnus von Braun and Emmy von Braun (née von Quistorp); m. Hildegard Margis 1940; one s. four d.; ed. Univs. of Hamburg, Berlin, and Cincinnati, Ohio; Counsellor, German Embassy, London 1953-58; Chief of Protocol, Foreign Office, Bonn 1958-62; Observer (with rank of Amb.) of Fed. Repub. of Germany to the UN 1962-68; Amb. to France 1968-70, 1972-76; State Sec. Ministry of Foreign Affairs 1970-72; Dr. h.c. and numerous decorations. *Leisure interests:* shooting, water skiing. *Address:* Graf Stauffenbergstrasse 21, D53 Bonn, Federal Republic of Germany. *Telephone:* 212216.

BRAUNSHTEYN, Aleksandr Yevseyevich, M.D., D.BIOL.SC.; Soviet biochemist; 26 May 1902, Kharkov; ed. Kharkov Medical Inst.; Biochemical Inst., U.S.S.R. People's Commissariat of Health 1928-36; All-Union Inst. of Experimental Medicine 1936-45; Head of Laboratory, Inst. of Biological and Medical Chem., U.S.S.R. Acad. of Medical Sciences 1945-60; Head of Laboratory, Inst. of Molecular Biology 1960-; Corresp. mem. U.S.S.R. Acad. of Sciences 1960-64, mem. 1964-; Foreign Assoc. mem. Nat. Acad. of Sciences, U.S.A.; Hon. mem. other acads. and learned socs. in Germany, France, U.S.A.; Dr. h.c.; State Prize; Hero of Socialist Labour; Order of Lenin; Hammer and Sickle Gold Medal. *Publications:* 190 experimental and theoretical papers on intermediary metabolism and enzymic catalysis. *Leisure interests:* classic and modern literature, colour photography. *Address:* Institute of Molecular Biology, 32 Ulitsa Vavilova, Moscow, U.S.S.R.

BRAUW, Jonkheer M. L. de; Netherlands politician; b. 14 Sept. 1925, The Hague; m. Anna-Maria Röell 1955; two s. three d.; ed. Leiden Univ.; fmr. Sec. to Man. Dirs., Unilever N.V., Rotterdam; Dir. Nationale Nederlanden Insurance Co. 1960-; Minister for Higher Educ. and Science Policy 1971-72; mem. Second Chamber of Parl. 1972-75; Pres. Board of Raadgevend Bureau Berenschot B.V. (Utrecht) 1975. *Leisure interests:* flying, horse riding, skiing. *Address:* Raadgevend Bureau Berenschot B.V., Churchill-laan 11, P.O. Box 8039, Utrecht, Netherlands. *Telephone:* 030-916-916.

BRAY, Gen. Sir Robert Napier Hubert Campbell, G.B.E., K.C.B., D.S.O.; British army officer; b. 14 June 1908, Dacca, Pakistan; s. of Brig.-Gen. R. N. Bray, C.M.G., D.S.O.; m. Nora Gee 1936; three s.; ed. Gresham's School, Holt, and Royal Military Coll., Sandhurst. Second Lieut., Duke of Wellington's Regt. 1928, Col. 1965-75; Norway, Middle East and North Western Europe 1939-45; Brig., Gen. Staff, British Army of the Rhine 1950-52, Korea 1954; Dir. of Land Air Warfare, and Dir. of NATO Standardisation, War Office 1954-57; Major-Gen. 1954; General Officer Commanding, 56th Infantry Div. (T.A.) 1957-59; Commander, Land Forces, Arabian Peninsula 1959-60; G.O.C. Middle East 1960-61; G.O.C. in C. Southern Command 1961-63; C.-in-C. Allied Forces, N. Europe 1963-67; Deputy Supreme Allied Commdr. Europe, North Atlantic Treaty Org. (NATO) 1967-70. *Leisure interests:* sailing, shooting, fishing. *Address:* c/o Army and Navy Club, Pall Mall, London, S.W.1, England.

BRAYER, Yves; French painter; b. 18 Nov. 1907, Versailles; s. of Gen. Victor Brayer and Lydie Passabosk; m. Hermione Falex 1945; one s.; ed. Ecole Nationale des Beaux-Arts, Paris; exhibited in Paris, New York, London, Nice 1959, 1967, Geneva 1961, Bordeaux 1963, Madrid 1963, Cologne, Berlin, Bourges; sets and costumes for ballet at the Paris Opéra, Royal Opera in Amsterdam and Festival of Cimiez; in addition to watercolours, etchings and lithographic works, has painted murals for public buildings and illustrated numerous books; work represented in Musée National de l'Art Moderne, Paris and in numerous museums and private collections throughout the world; Prof., Acad. de la Grande Chaumière 1934-; Pres. Acad. des Beaux-Arts 1969-70; Officier Légion d'honneur, Commdr. des Arts et des Lettres, Commendatore dell'Ordine al Merito della Republica italiana. *Address:* 22 rue Monsieur le Prince, 75006 Paris, France. *Telephone:* 033-00-01.

BRAYNEN, Sir Alvin Rudolph, Kt., J.P.; Bahamian diplomatist (retd.); b. 6 Dec. 1904, Bahamas; s. of William Rudolph and Lulu Isabel Braynen; m. 2nd Ena Estelle 1969; and s. one d. (by previous marriage); ed. Public School, Current, Eleuthera, Bahamas; Headmaster Govt. Public Schools 1923-25; Rep. Sinclair Co. 1930-65, Consultant 1965-69; Consultant Shell Oil Co., Bahamas 1969-; mem. House of Assembly 1935-72, Dep. Speaker 1949-53, 1963-66, Speaker 1967-72; mem. Exec. Council 1953-58; del. to parl. confs.,

London 1963, 1968; Chair. Standing Cttee. of Conf. of Caribbean Parls. 1970-72; Chair. Advisory Council for Public Records 1971-73; High Commr. in U.K. 1973-77. *Leisure interests:* coin and stamp collecting. *Address:* P.O. Box 42, Nassau, Bahamas.

BREAM, Julian, O.B.E.; British guitarist and lutanist; b. 15 July 1933; ed. Royal Coll. of Music; began professional career Cheltenham 1947, London début 1950; tours in Europe, America, Japan and Australia; appeared at festivals at Aldeburgh, Bath, Edinburgh, Three Choirs, King's Lynn, Holland, Ansbach, Berlin, and Stratford (Canada); research into Elizabethan Lute music which led to revival of interest in that instrument; has encouraged contemporary English compositions for the guitar. *Leisure interests:* playing the guitar, cricket, table tennis, gardening, backgammon. *Address:* c/o Harold Holt Ltd., 122 Wigmore Street, London, W.1, England.

BREDER, Charles M.; American ichthyologist; b. 25 June 1897, Jersey City, N.J.; ed. High School, Newark; Scientific Asst. and Fishery Expert with U.S. Bureau of Fisheries 1918-21; aquarist N.Y. Aquarium 1921-25, Research Assoc., Asst. Dir., Acting Dir., Dir. 1925-43; Chair. and Curator Dept. of Fishes and Aquatic Biology, American Museum of Natural History, Ichthyology Dept. 1944-65, Curator Emeritus 1965-; Visiting Prof. New York Univ. 1941-50; Dir. Lerner Marine Laboratory, Bimini, Bahamas 1947-57; Advisory Board Cape Haze Marine Laboratory, Florida (now the Mote Marine Laboratory) 1957-66, mem. Board of Dirs. 1967-73, Senior Researcher 1970-75, 1978-; Research Assoc., Bingham Oceanographic Laboratory, Yale Univ. 1933-60; Fellow, New York Zoological Soc.; Hon. D.Sc. (Newark Univ.). *Publications:* Field Book of the Marine Fishes of the Atlantic Coast from Labrador to Texas 1929, Modes of Reproduction in Fishes (with D. E. Rosen) 1966, and technical papers. *Address:* 6275 Manasota Key Road, Englewood, Fla. 33533, U.S.A. *Telephone:* (813) 474-1810.

BREIT, Gregory, A.M., PH.D.; American (naturalized 1918) physicist; b. 14 July 1899, Russia; s. of Alfred and Aleksandra Smirnova Breit; m. Marjorie E. MacDill 1927; ed. Johns Hopkins Univ.; National Research Council Fellow, Univ. of Leyden 1921-22, Harvard Univ. 1922-23; Asst. Prof. of Physics, Minnesota Univ. 1923-24; Mathematical Physicist, Dept. of Terrestrial Magnetism, Carnegie Inst. of Washington 1924-29; Prof. of Physics, New York Univ. 1929-34, Wisconsin Univ. 1934-47, Yale Univ. 1947-58, Donner Prof. of Physics 1958-68; Distinguished Prof. of Physics, State Univ. of N.Y. at Buffalo 1968-74, Distinguished Service Prof. Emer. 1974-; Research Assoc., Carnegie Inst. 1929-44; Visiting mem. Inst. for Advanced Study, Princeton, N.J. 1935-36; on leave of absence ■ mem. of Uranium Cttee. (Section S), Office of Scientific Research and Development and other war work 1940-45; mem. Nat. Acad. of Sciences; Fellow American Acad. of Arts and Sciences, American Phsyical Soc., Inst. of Electronic and Electrical Engineers, Geophysical Union; Assoc. Editor Physical Review 1927-29, 1939-41, 1954-56, 1961-63, Assoc. Editor, Proceedings of National Academy of Sciences 1951-60, Il Nuovo Cimento 1964-67; Councillor American Phsycial Soc. 1935-38; mem. Div. of Physical Sciences, Nat. Research Council 1932-33, 1938-41; Franklin Medal 1964, Nat. Medal of Science 1967, Tom Bonner Prize, American Physical Soc. 1969; Hon. D.Sc. (Univ. of Wisconsin), D.Sc. (Johns Hopkins Univ.) 1976. *Publications:* A Test of the Existence of the Conducting Layer (with M. A. Tuve) 1926, The Effect of Retardation on the Interaction of Two Electrons 1929, Quantum Theory of Dispersion, Parts I-V 1932, Parts VI and VII 1933, Capture of Slow Neutrons (with E. Wigner) 1936, Theory of Scattering of Protons by Protons 1936, Handbuch der Physik, Vol. 42, part I, Nuclear Reactions: II, Theory (with others); and other publications on kindred subjects. *Address:* 73 Allenhurst Road, Buffalo, N.Y. 14214, U.S.A. *Telephone:* (716) 836-7110.

BREKHOV, Konstantin Ivanovich; Soviet engineer and politician; b. 6 March 1907; ed. Kharkov Machine Building Inst; Engineer, machine-building factories 1931-42; mem. CPSU 1931-; Dir. Irkutsk Heavy Machine-Building Works 1944-54; Deputy Minister of Building and Road Machine Building U.S.S.R. 1954-57; econ. work, Moscow Region 1957-59; Chair. Moscow Regional Econ. Cttee. 1959-63; Chair State Cttee. for Building of Machinery for Chemical and Oil Industries 1964-65; U.S.S.R. Minister for Chemical and Oil Engineering 1965-; Cand. mem. Cen. Cttee. of CPSU 1961-71, mem. 1971-; Deputy to Supreme Soviet of U.S.S.R. 1962; Order of Lenin (twice) and other decorations. *Address:* Ministry for Chemical and Oil Engineering, 25 Bezbozhny Pereulok, Moscow, U.S.S.R.

BREKHOVSKIKH, Leonid Maksimovich, D.SC.; Soviet physicist; b. 6 May 1917, Strunkino Village, Arkhangelsk Region; ed. Perm. State Univ; junior research worker, senior research worker, Head of Dept., Inst. of Physics, U.S.S.R. Acad. of Sciences 1939-54; Dir. Inst. of Acoustics 1954-64, Head of Laboratory 1964-; Sec.-Academician, Dept. of Oceanography, Physics of Earth Atmosphere and Geography, U.S.S.R. Acad. of Sciences 1969-; mem. CPSU 1959-; Prof. Moscow Univ. 1953; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-68, Academician 1968-; State Prize 1950, 1976. *Publications:* numerous scientific works in fields of ocean acoustics, radiophysics and theoretical physics. *Address:* U.S.S.R. Academy of Sciences, 14 Leninski Prospekt, Moscow, U.S.S.R.

BREMER, Frédéric; Belgian physiologist; b. June 1892, Arlon; s. of Gaston Bremer and Amélie Leyder; m. Claire Baar 1921; one s. one d.; ed. Univ. of Brussels; Hon. Prof. and Dir. Laboratory of Physiopathology, Univ. of Brussels 1932-; Pres. Nat. Centre for Neurophysiological and Muscular Research 1954; mem. Belgian Acad. of Medicine and Sciences Div. Belgian Royal Acad.; Hon. mem. American Physiological Soc., Biology Soc., Paris, American Acad. of Arts and Sciences, Int. Brain Research Org., Soc. Ital. per Progr. Science; mem. Physiological Soc. of Great Britain; Assoc. mem. Nat. Acad. Medicine of France, Accad. Nazionale dei Lincei (Rome); Corresp. mem. Inst. de France; Dr. h.c. (Univs. of Aix-Marseille, Montpellier, Strasbourg and Utrecht); Grand Officier de l'Ordre de Léopold; Croix de guerre and Croix du feu 1914-18. *Publications:* L'activité électrique de l'écorce cérébrale 1938, Some Problems in Neurophysiology 1953. *Leisure interests:* gardening, travelling. *Address:* 115 boulevard de Waterloo, Brussels, Belgium. *Telephone:* 380844.

BRENCHLEY, Thomas Frank, C.M.G., M.A.; British diplomatist (retd.); b. 9 April 1918, Stockton-on-Tees; s. of Robert B. and Alice (née Brough) Brenchley; m. Edith Helen Helfand 1946, three d.; ed. Merton Coll., Oxford; served in British Army 1939-46; entered Civil Service 1947, transferred to Foreign Office 1949; served in Singapore, Cairo, Foreign Office and Middle East Centre for Arabic Studies 1950-59; Khartoum, Jeddah and Foreign Office 1960-66; Asst. Under-Sec. for Middle East Affairs, Foreign and Commonwealth Office 1967-68; Amb. to Norway 1968-72, to Poland 1972-74; Deputy Sec., Cabinet Office 1975-76; Deputy Sec.-Gen., Arab-British Chamber of Commerce 1976-. *Leisure interests:* tennis, skiing, collecting books. *Address:* 19 Ennismore Gardens, London, S.W.7, England. *Telephone:* 01-584 7981.

BRENDEL, Alfred; Austrian pianist; b. 5 Jan. 1931, Wiesenberg; s. of Ing. Albert and Ida (née Wieltschnig) Brendel; m. 1st Iris Heymann-Gonzala 1960 (divorced 1972), 2nd Irene Semler 1975; one s. one d.; studied piano under Sofija Deželić (Zagreb), Ludovika v. Kaan (Graz), Edwin Fischer (Lucerne), Paul Baumgartner (Basle), Edward Steuermann (Salzburg); studied composition under A. Michl (Graz) and harmony under Franjo Dugan (Zagreb); first piano recital 1948; concert tours through Europe, Latin America, North America 1963-; Australia 1963, 1966, 1969, 1976; has appeared at many music festivals, including Salzburg 1960-, Vienna, Edinburgh, Aldeburgh, Athens, Granada, Puerto Rico and has performed with most of the major orchestras of Europe and U.S.A. etc.; numerous recordings, including complete piano works of Beethoven, Schubert's piano works 1822-8; Premio Città de Bolzano, Concorso Busoni 1949, Grand Prix du Disque 1965, Edison Prize 1974, Grand Prix des Disquaires de France 1975, Deutscher Schallplattenpreis 1976, Wiener Flötenuhr 1976. *Publications:* essays on music and musicians in Phono, Fono Forum, Österreichische Musikzeitschrift, Music and Musicians, Hi-Fi Stereophonie, Musical Thoughts and Afterthoughts 1976, etc. *Leisure interests:* books, theatre, the visual arts, films, baroque and romanesque architecture, unintentional humour, kitsch. *Address:* c/o Ingpen and Williams, 14 Kensington Court, London, W.8, England.

BRENNAN, Peter J.; American politician; b. 1918, Manhattan; worked ■ painter, Macy's Dept. Store; served U.S. Navy 2nd World War; rose through Union ranks to Pres. Construction Trades Council 1957; supported Pres. Nixon's election May 1970; Sec. of Labour 1973-75. *Address:* 2100 Massachusetts Avenue, Washington, D.C. 20008, U.S.A.

BRENNAN, William Joseph, Jr., B.S., LL.B.; American judge; b. 25 April 1906, Newark; s. of William Brennan and Agnes McDermott; m. Marjorie Leonard 1928; two s. one d.; ed. Pennsylvania and Harvard Univs.; admitted to New Jersey Bar 1931; practised in Newark, N.J. 1931-49; Superior Court Judge 1949-50, Appellate Div. Judge 1950-52; Justice, Supreme Court of N.J. 1952-56; Assoc. Justice, Supreme Court of the U.S. 1956-; served as Col., Gen. Staff Corps, U.S. Army in Second World War; Legion of Merit; Hon. D.C.L. (New York and Colgate Univs.), Hon. S.J.D. (Suffolk Univ.), Hon. LL.D. (Wesleyan, St. John's, Pa., Rutger's, George Washington, Harvard and Notre Dame Univs., Jewish Theological Seminary of America). *Address:* Supreme Court of the United States, Washington, D.C. 20543; and 3037 Dumbarton Avenue, N.W., Washington, D.C., U.S.A.

BRENNER, Sydney, M.B., D.PHIL., F.R.S.; British scientist; b. 13 Jan. 1927, Germiston, South Africa; s. of Morris Brenner and Lena Blacher; m. May Woolf Balkind; one s. two d.; ed. Univ. of the Witwatersrand, Johannesburg, and Oxford Univ.; Lecturer in Physiology, Univ. of Witwatersrand 1955-57; mem. Scientific Staff of Medical Research Council at M.R.C. Laboratory of Molecular Biology, Cambridge 1957-, Medical Research Council 1978-; Fellow of King's Coll., Cambridge 1959-; Foreign Hon. mem. American Acad. of Arts and Sciences; Hon. D.Sc. (Dublin, Witwatersrand, South Africa, Chicago, Johannesburg); Warren Triennial Prize 1968, William Bate Hardy Prize, Cambridge Philosophical Soc. 1969, Gregor Mendel Medal of German Acad. of Science Leopoldina 1970, Lasker Award 1971, Gairdner Foundation Annual Award (Canada) 1978; Royal Medal of Royal Soc. 1974, Prix Charles Leopold Mayer 1975; Foreign Assoc. Nat. Acad. of Sciences 1977. *Address:* Medical Research Council Laboratory of Molecular Biology, Cambridge CB2 2QH (Office); 26 Coton Road, Grantchester, Cambridge, England. (Home).

BRESLOW, Ronald Charles, PH.D.; American professor of chemistry; b. 14 March 1931, Rahway, N.J.; s. of Alexander Breslow and Gladys Fellows; m. Esther Greenberg 1956; two d.; ed. Harvard Univ.; Instructor, Columbia Univ. 1956-59, Assoc. Prof. 1959-62, Prof. 1962-67, Mitchill Prof. of Chem. 1967-; Sloan Fellowship 1961-63; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Exec. Cttee. of Organic Div. of American Chemical Soc.; mem. Editorial Board Organic Syntheses 1965-, Board of Editors Journal of Organic Chem. 1968, Tetrahedron, Tetrahedron Letters 1977; Trustee, American-Swiss Foundation for Scientific Exchange Inc. 1969-71; Chair. Div. of Organic Chem., American Chemical Soc. 1970-71; Chair. Div. of Chem., N.A.S. 1974; Chair. Dept. of Chem., Columbia Univ. 1976-; American Chemical Soc. Award in Pure Chem. 1966; Eresinius Award 1966, Mark van Doren Award 1969, Baekeland Medal 1969, Centenary Lecturer, London Chemical Soc. 1972, Harrison Howe Award 1974, Remsen Medal 1977, Roussel Prize 1978. *Publications:* Organic Reaction Mechanisms 1965; over 150 scientific papers. *Address:* 566 Chandler Laboratories, Department of Chemistry, Columbia University, New York, N.Y. 10027, U.S.A. *Telephone:* (212) 280-2170.

BRESSON, Robert: French film writer and director; b. 25 Sept. 1901, Bromont-Lamothe (Pay-de-Dôme); s. of Léon Bresson and Marie-Elisabeth Clausels; m. Leidia Van der Zee 1926; ed. Lycée; started ■ painter; made first film 1934; Hon. Pres. Soc. des Réalisateurs de films 1968; Officier, Légion d'honneur; Grand Prix du Cinéma Français 1943, 1951, Prix Louis-Delluc 1950, Grand Prix du Film d'avant garde 1950, Grand Prix national 1978. *Films directed include:* Anges du péché 1943, Les dames du Bois de Boulogne 1945, Journal d'un curé de campagne 1951, Un condamné à mort s'est échappé 1956, Pickpocket 1959 (prix du Meilleur Film de l'année 1960), Le procès de Jeanne d'Arc 1962 (prix spécial, Cannes Festival 1962), Au hasard, Balthasar 1966, Mouchette 1966 (prix du Cinéma français 1967, grand prix, Panama Festival 1968), Une femme douce 1969, Quatre nuits d'un rêveur 1971, Lancelot du lac 1974, Le diable probablement 1977. *Address:* 49 Quai Bourbon, 75004 Paris, France.

BREUER, Marcel Lajos, M.A., F.A.I.A.; American architect; b. 22 May 1902, Pecs, Hungary; s. of Jacques and Franciska Kan Breuer; m. Constance Crocker Leighton 1940; one s. one d.; ed. Hungarian Public School, and Bauhaus, Weimar; Teacher, Bauhaus, Dessau 1924-28; architect Berlin 1928-31; travels and architectural comms. Spain, Morocco, Switzerland, Germany, Hungary, Greece, England, Haiti, Pakistan, Japan, Mexico, Venezuela, Brazil, Argentina, Peru 1931-35; architect London 1935-37, Cambridge, Mass. 1937-46; Assoc. Prof. Graduate School of Design, Harvard Univ. 1937-46; with Marcel Breuer and Associates, Architects, New York 1946-; mem. Nat. Inst. Arts and Letters; Fellow, American Acad. Arts and Sciences; Hon. mem. of Architectural Socs. in Columbia, Peru, Argentina; Hon. Dr. Fine Arts, Pratt Inst., Hon. Dr. Arts Harvard Univ., Univ. Notre Dame, Hon. Dr. Govt. of Hungary; First Int. Prize, La Rinascente's "Compasso d'oro" 1957; N.Y. State Council on Arts Award for Whitney Museum 1967; America Hungarian Studies Foundation, George Washington Award 1967; Fifth Ave. Assen. Award for best institutional bldg. 1966-67 for Whitney Museum; City Club of N.Y. Bard Award for Whitney Museum 1968; Metropolitan Washington Board of Trade Award 1969; Office of the Year Award 1968; Concrete Industry Board Award 1969 and 1970; AIA Award for Excellence 1970; Honor Award 1970, 1972, 1973; AIA Medal of Honor 1965; T. Jefferson Foundation Medal 1968; AIA Gold Medal 1968; several other awards and honours. *Principal works include:* UNESCO World Headquarters Bldgs., Paris (with others) 1953-58; U.S. Embassy Bldg., The Hague 1954-58; de Bijenkorf Dept. Store, Rotterdam 1957-58; Van Leer World Headquarters Bldg., Amstelveen 1957-58; IBM-France Research Centre, La Gaude 1960-61; Whitney Museum of American Art, New York 1963-66; Satellite Town, Bayonne (France) 1963-69; Mary Coll., Bismarck, N.D. (four bldgs.) 1968; Armstrong Rubber Co. Headquarters, New Haven, Conn. 1965-70; Flaine (resort town in French Alps) 1969-; Univ. of Massachusetts Campus Centre 1970; IBM Bldgs., Boca Raton, Fla. 1970-; The Cleveland Museum of Art 1970; Cleveland Trust Co. Headquarters 1971; Third Power Plant and Forebay Dam, Grand Coulee Dam (under construction). *Leisure interest:* photography. *Address:* 635 Madison Avenue, New York, N.Y. 10022, U.S.A.; and 48 rue Chapon, 75003 Paris, France (Offices); 139 East 63 Street, New York, N.Y. 10022, U.S.A. (Home). *Telephone:* (212) 758-1766 (Office); (212) 755-8882 (Home).

BREWER, Leo, PH.D.; American professor of chemistry; b. 13 June 1919, St. Louis, Mo.; s. of Abraham and Hannah (Resnik) Brewer; m. Rose Strugo 1945; one s. two d.; ed. Calif. Inst. of Technology and Univ. of California (Berkeley). Research Assoc. Manhattan District Project, Univ. of Calif. (Berkeley); Research Assoc. Lawrence Berkeley Lab. (Univ. of Calif.) 1943-61, Head Inorganic Materials Div. 1961-75; Assoc. Dir. Lawrence Berkeley Lab. 1967-75; Asst. Prof. Coll. of Chem., Univ. of Calif. 1946-50, Assoc. Prof. 1950-55, Prof. 1955-; mem. Nat. Acad. of Sciences; Great Western Dow Fellow 1942, Guggenheim Fellow 1950; Leo H. Baekland Award 1953, E. O. Lawrence Award 1961, Palladium Medal and Award of Electrochemical Soc. 1971; several hon. lectureships 1963-67, 1970-72, 1974; Distinguished Alumni Award Calif. Inst. of Technology 1974. *Publications:* numerous articles in professional journals. *Leisure interest:* gardening. *Address:* Department of Chemistry, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* (415) 642-4099.

BREWSTER, Kingman; American educator and diplomatist, b. 17 June 1919, Longmeadow, Mass.; s. of late Kingman Brewster and Florence Brewster; m. Mary Louise Phillips 1942; three s. two d.; ed. Yale Univ. and Harvard Univ.; Chair. Yale Daily News 1940-41; Special Asst. Co-ordinator, Inter-American Affairs 1941; Research Assoc. Dept. of Econ. M.I.T. 1949-50; Asst. Prof. of Law, Harvard Univ. 1950-53, Prof. 1953-60; Provost, Yale Univ. 1960-63, Pres. 1963-77; Amb. to U.K. June 1977-; U.S. Naval Reserve 1942-46; Hon. LL.D. from numerous univs. *Publications:* Antitrust and American Business Abroad 1959, Law of International Transactions and Relations (with M. Katz) 1960. *Address:* United States Embassy, Grosvenor Square, London, W.1, England.

BREYCHA-VAUTHIER, Arthur, D.IUR., DR.RER.POL.; Austrian librarian and diplomatist; b. 1 July 1903, Vienna; s. of Arthur and Maria Czyhlarz; m. Graziella Segantini 1943; ed. Theresianum, Vienna and Univs. of Vienna, Louvain, London and Innsbruck; Law Librarian, League of Nations Library 1928, Asst. Librarian 1934-37, Acting Librarian 1937-45; Prof. Geneva Library School 1939-64; Asst. Sec. Int. Fed. of Library Asscns. 1929-, Treas. 1958–; Chief Librarian, UN Library, Geneva 1946-64, Librarian Emeritus 1964-; Amb. to Lebanon, concurrently to Syria, Jordan, Saudi Arabia, Iraq and Kuwait 1964-68; Dir. Diplomatic Academy. *Publications:* Sources of Information—a Handbook of the Publications of the League of Nations 1939, La Stirpe trentina de Giovanni Segantini 1959, Le fonctionnaire international 1959, Internationale Bibliotheksarbeit 1960, Die Zeitschriften der Österreichischen Emigration 1960, Tantur 1961, Metternich-Maximen 1962, Documentación internacional 1962, Sie trugen Österreich mit sich in die Welt 1962, Actes du Conseil de la F.I.A.B., Vols. I-XXVII (Editor), Vital Problems of International Libraries 1965, Qusair' Amra 1967, Deir Balamand 1969, Österreich in der Levante 1972, Tantur 1973. *Leisure interests:* gardening, Cistercians, collecting manuscripts on diplomatic history. *Address:* Diplomatic Academy, Favoritenstrasse 15, Vienna IV, Austria. *Telephone:* 657272.

BREZHNEV, Leonid Ilyich; Soviet politician; b. 19 Dec. 1906, Dneprodzerzhinsk, Ukraine; ed. secondary school for Land Organization and Reclamation, Kursk, and Dneprodzerzhinsk Metallurgical Inst. Chief of District Land Dept., Deputy Chair. of District Exec. Cttee., later Deputy Chief, Urals Regional Land Dept. 1927-30; Engineer, Dneprodzerzhinsk Metallurgical Plant 1931-35; Soviet Army 1935-36; Deputy Chair. Exec. Cttee. Dneprodzerzhinsk City Council, Chief of Dept., Dnepropetrovsk Regional Party Cttee. 1937-39, Sec. 1939-41; Political Officer, Soviet Army 1941-46; First Sec. Zaphorozhye Regional Party Cttee., Ukraine CP 1946-47, Dnepropetrovsk Regional Party Cttee. 1947-50; First Sec. Cent. Cttee., CP of Moldavia 1950-52; mem. Cen. Cttee. of CPSU 1952–; Cand. mem. Presidium 1952-53, Sec. Cen. Cttee. of CPSU 1952-53; Deputy Chief Cent. Political Dept., Soviet Army and Navy 1953-54; Second Sec. Cen. Cttee. of Kazakh CP 1954, First Sec. 1955-56; Alt. mem. Presidium Cen. Cttee. of CPSU 1956-57, mem. 1957-66, mem. Politburo 1966-; Sec. Cen. Cttee. of CPSU 1956-60;

Chair. of Presidium of Supreme Soviet of U.S.S.R. (Head of State) 1960-64, June 1977-; Sec. Cen. Cttee. of CPSU 1963, First Sec. 1964-66, Gen. Sec. 1966-; Supreme Commdr. of Soviet Forces 1977–; Marshal of the Soviet Union 1976; Hero of Socialist Labour 1961, Hero of the Soviet Union, Gold Star Medal 1966, 1976, 1978, Hammer and Sickle Gold Medal, seven Orders of Lenin, two Orders of Red Banner, Lenin Peace Prize 1973, Hero of People's Repub. of Bulgaria 1973, Hero of G.D.R., Hero of Mongolian People's Repub., Karl Marx Gold Medal (G.D.R.), Order of Victory, Klement Gottwald Order (Czechoslovakia) 1978, and numerous other decorations. *Address:* Central Committee of the Communist Party of the Soviet Union, 4 Staraya ploshchad, Moscow, U.S.S.R. *Telephone:* 206-25-11.

BRIDGES, Harold; British oil executive; b. 14 March 1916, Derbys.; s. of George H. and Alice Allen Bridges; m. Shirley M. Cresswell 1943; one s. two d.; ed. Durham Univ.; joined Royal Dutch Petroleum 1937; Geophysicist in New Guinea, India, Australia, U.S.A., Indonesia, Ecuador, Colombia; Chief Geophysicist, Pakistan, Netherlands, Indonesia, U.S.A.; Gen. Man. Shell B.P. Petroleum Co. of Nigeria 1956; Deputy Gen. Rep. of Shell in Indonesia 1957; Deputy Group Personnel Co-ordinators, The Hague 1959; Regional Co-ordinator (Oil), Caribbean, Central and South America 1961; Dir. and Planning Co-ordinator, Shell Int. Petroleum Co., London 1964; Dir. Shell Petroleum N.V., The Hague, and Shell Petroleum Co., London 1967; Pres. and Dir. Shell Canada Ltd. 1968-70; Exec. Vice-Pres. and Chief Operating Officer, Shell Oil Co., New York 1970-71; Pres. and Chief Exec. Officer, Houston 1971-76; Dir. American Petroleum Inst. 1970-76; Dir. Inco, Toronto 1978-. *Leisure interest:* golf. *Address:* Eden-Golf "E", Chalet-A-Gobet, 1000 Lausanne 25, Switzerland. *Telephone:* 021-33-06-69.

BRIDGES, Sir Phillip Rodney, Kt., C.M.G., Q.C.; British lawyer; b. 9 July 1922; s. of Capt. Sir Ernest and Lady Bridges; m. 1st Rosemary Ann Streeten, 2nd Angela Mary Huyton; two s. one d.; ed. Bedford School, England; army service 1941-47, Capt. Royal Artillery with Royal West African Frontier Force, W. Africa, India, Burma; Solicitor of Supreme Court, England 1951; Barrister and Solicitor, The Gambia 1954; Solicitor-Gen. 1961; Attorney-Gen. 1964; Queen's Counsel, The Gambia 1964; Chief Justice of The Gambia 1968-. *Address:* Chief Justice's Chambers, Supreme Court, Banjul, The Gambia; and Weavers, Coney Weston, Bury St. Edmunds, Suffolk, England.

BRIGGS, Baron (Life Peer), cr. 1976, of Lewes in the County of Sussex; **Asa Briggs,** M.A., B.SC.; British historian; b. 7 May 1921, Keighley, Yorks.; s. of William Walker Briggs and Jane Briggs; m. Susan Anne Banwell 1955; two s. two d.; ed. Keighley Grammar School and Sidney Sussex Coll., Cambridge; Fellow, Worcester Coll., Oxford 1945-55, Reader in Recent Social and Econ. History, Univ. of Oxford 1950-55; Prof. of Modern History, Leeds Univ. 1955-61; Prof. of History, Univ. of Sussex 1961-, Dean of Social Studies 1961-65, Pro-Vice-Chancellor 1961-67, Vice-Chancellor 1967-Sept. 1976; Provost Worcester Coll., Oxford 1976-; Chancellor, Open Univ. 1979-; Deputy Pres. Workers Educational Assn. 1954-58, Pres. 1958-67; Chair. Appts. Comm. Press Council 1972; mem. Univ. Grants Cttee. 1959-67; Trustee, Int. Broadcast Inst. 1968-; Gov. British Film Inst. 1970-76; Chair. European Inst. of Educ. 1974-; mem. Council of UN Univ. 1974-; Hon. mem. American Acad. of Arts and Sciences 1970-; Hon. LL.D., Hon. D.Litt (Univ. Cincinnati), Hon. D.Sc.; Marconi Medal for Services to Study of Broadcasting 1975. *Publications:* Patterns of Peacemaking (with D. Thomson and E. Meyer) 1945, History of Birmingham, 1865-1938 1952, Victorian People 1954, Friends of the People 1956, The Age of Improvement 1959, Ed. Chartist Studies 1959, History of Broadcasting, Vol. I 1961, Vol. II 1965, Vol. III 1970, Vol. IV 1979, Victorian Cities 1963, The Nineteenth Century (editor) 1970, Cap and Bell (with Susan Briggs) 1972, Essays in the History of Publishing (editor) 1974, Essay in Labour History 1918-1939 1977. *Leisure interest:* travel. *Address:* Worcester College, Oxford (Office); The Caprons, Keere Street, Lewes, Sussex, England. (Home). *Telephone:* Oxford 47251; Lewes 4704 (Home).

BRIGGS, Robert William, PH.D.; American biologist; b. 10 Dec. 1911, Watertown, Mass.; s. of Robin Briggs and Bridget McGonigle; m. Janet Bloch 1940; two s. one d.; ed. Boston and Harvard Univs.; Research Fellow, McGill Univ., Montreal 1938-42; Biologist, Lankenau Hospital Research Inst. Philadelphia 1942-56; Prof., Indiana Univ. 1956-62, Research Prof. 1963-, Dept. Chair. 1969-; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences, American Soc. of Naturalists, Genetic Soc. of America, American Soc. of Zoologists. *Publications:* Transplantation of living nuclei in the frog (with T. J. King) in Proceedings of Nat. Acad. of Sciences 1952, On the nature of the changes in nuclei during cell differentiation (with T. J. King) in Cold Spring Harbour Symposium and Journal of Experimental Biology 1956, 1957, Nucleocytoplasmic interactions in eggs and embryos (with T. J. King) 1959, Nuclear transplantation studies in the axolotl (with Signoret and Humphrey) 1962, 1964, Accumulation in the oocyte nucleus of ■ gene product essential for embryonic development beyond gastrulation (with G. Cassens and J. T. Justus) in Proceedings of Nat. Acad. of Sciences and Journal of Experimental Zoology 1966, 1968, 1972, Development Genetics of the Axolotl (editor F. Ruddle) 1973. *Leisure interest:* contra bassoon. *Address:* Department of Zoology, Indiana University, Bloomington, Ind. 47401 (Office); 3209 East 10th Street, Apartment C-2, Bloomington, Ind. 47401, U.S.A. (Home). *Telephone:* (812) 337-3788.

BRIGGS, Wenike Opurum, LL.B.; Nigerian politician; b. 10 March 1918, Abonnema, Rivers State; m.; three c.; ed. Nyemoni School, Abonnema, King's Coll., Lagos, Regent St. Polytechnic, London, Univ. of Sheffield and Univ. of London (external student); Postal Clerk, Dept. of Posts and Telegraphs; Customs Official, Dept. of Customs and Excise 1942; Sub-editor Daily Service 1945; founder and editor The Nigerian Statesman 1947; studied in U.K., called to the Bar, Gray's Inn, London 1958; mem. House of Reps. 1959-66; Fed. Commr. for Educ. 1967-71, for Trade 1971-75. *Leisure interests:* reading, gardening, swimming. *Address:* Ministry of Trade, Lagos, Nigeria.

BRILEJ, Joža, LL.D; Yugoslav lawyer and diplomatist; b. 1910; ed. Univ. of Ljubljana. Barrister in Ljubljana until 1941; Organizer of Liberation Movement in Slovenia; Colonel, Nat. Liberation Army until 1945; mem. Slovene Nat. Assembly; mem. Nat. Council of Slovenia 1943; Head of Political Dept., Ministry of Foreign Affairs until 1950, when apptd. Asst. Foreign Minister; Amb. to U.K. 1950-53; Perm. Rep. to UN 1954-58; fmr. Counsellor of State for Foreign Affairs; Amb. to U.A.R. (Egypt) 1961-63; Pres. Cttee. for Econ. Relations with Foreign Countries and mem. Federal Exec. Council 1963-67; Deputy to Federal Assembly; Vice-Pres. Nat. Assembly of Repub. of Slovenia; Pres. Constitutional Court, Slovenian Repub.; Yugoslav Orders for Bravery, of Brotherhood and Unity (1st Class), of Merit for the People (2nd Class), of Labour (1st Class), of Partisan Star (1st Class), etc. *Address:* Federal Executive Council, Belgrade, Yugoslavia.

BRIMELOW, Baron (Life Peer) cr. 1976, of Tyldesley in the County of Lancashire; **Thomas Brimelow,** G.C.M.G., O.B.E.; British diplomatist; b. 25 Oct. 1915, Tyldesley, Lancs.; s. of William Brimelow and Hannah Smith; m. Jean E. Cull 1945; two d.; ed. New Mills Grammar School and Oriel Coll. Oxford; Laming Travelling Fellow, Queen's Coll., Oxford 1937; Probationer Vice-Consul, Danzig 1938; Consulate, Riga 1939, Acting Consul 1940; served in Consulate-Gen., New York 1940; in charge of Consular Section of Embassy, Moscow 1942-45; Foreign Office 1945; First Sec., Havana 1948; in Moscow 1951-54; Counsellor (Commercial) Ankara 1954-56; Head of Northern Dept., Foreign Office 1956-60; Counsellor, Washington 1960-63; Minister, Moscow 1963-66; Amb. to Poland 1966-69; Deputy Under-Sec. Foreign and Commonwealth Office 1969-73; Rep. on Council of WEU 1969-73; Perm. Under-Sec., Head of Diplomatic Service 1973-75; mem. European Parl. (Socialist Group) 1977-; Chair., Occupational Pensions Board 1978-; Hon. Fellow, Oriel Coll., Oxford 1973, Queen's Coll., Oxford 1974. *Address:* 12 West Hill Court, Millfield Lane, London, N6 6JJ, England. *Telephone:* 01-340 8722.

BRIMMER, Andrew Felton, M.A., PH.D.; American economist and government official; b. 13 Sept. 1926, Newellton, La.; s. of Andrew Brimmer and Vellar Davis Brimmer; m. Doris Millicent Scott 1953; one d.; ed. Univ. of Washington, Univs. of Delhi and Bombay (India), and Harvard Univ.; Teaching Fellow, Harvard Univ. 1954-55; Economist, Fed. Reserve Bank of New York 1955-58; Asst. Prof. of Econs. Michigan State Univ. 1958-61, Asst. Prof. of Finance, Wharton School, Univ. of Pa. 1961-63; Deputy Asst. Sec. for Econ. Affairs, U.S. Dept. of Commerce 1963-65, Asst. Sec. 1965-66; mem. Board of Govs. Fed. Reserve System 1966-74; Thomas Henry Carroll Ford Foundation Visiting Prof., Graduate School of Business Admin., Harvard 1974-76; Pres. Brimmer & Co. Inc., Washington 1976-; Dir. Du Pont Co. 1974-; Dir. Bank of America, American Security & Trust Co., Int. Harvester Co., United Air Lines; Overseer Harvard Coll.; Trustee, Tustegee Inst., Negro Student Fund; Fellow, American Acad. of Arts and Sciences; mem. American Econ. Assn., American Finance Assn., Nat. Economists Club, Council on Foreign Relations; Pres. Assn. for the Study of Negro Life and History; Govt. Man of Year, Nat. Business League 1963; Arthur S. Flemming Award 1966; Russworm Award 1966; Golden Plate Award, American Acad. of Achievement 1967; Public Affairs Award of Capital Press Club; Hon. LL.D. (Marquette, Nebraska Wesleyan, Atlanta, Colgate and Tufts Univs., Univ. of Notre Dame and Middlebury and Bishop Colls.), other hon. degrees

from Univ. of Miami, Boston and Oberlin Colls., Ohio and Long Island Univ. *Publications:* Life Insurance Companies in the Capital Market 1962, Survey of Mutual Fund Investors (with Arthur Freedman) 1963, Economic Development: International and African Perspectives 1976. *Address:* Brimmer & Co. Inc., 1201 Connecticut Avenue, N.W., Washington, D.C. 20036, U.S.A. (Office).

BRINCKERHOFF, Charles M.; American mining executive; b. 15 March 1901, Minneapolis; s. of William Brinckerhoff and Mary Belle Sharp; m. Florence Andreen 1926; one d.; ed. Columbia Coll. and Columbia School of Mines; Phelps-Dodge Corpn., Arizona, Inspiration Consolidated Copper Co., Andes Copper Mining Co. 1925-48; Gen. Man. Chile Exploration Co., Chile 1948-56, Exec. Vice-Pres. 1957-58; Pres. and Dir. Anaconda Co. 1958-64, Vice-Chair. and Chief Exec. Officer 1964-65, Chair. and Chief Exec. Officer 1965-68, Consultant in Mining and Metallurgy 1968-. *Address:* 784 Park Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* (212) RE7-7208.

BRINK, Frank, Jr., B.S., M.S., PH.D.; American biophysicist; b. 4 Nov. 1910, Easton, Pa.; s. of Frank Brink, Sr., and Lydia (Wilhelm) Brink; m. Marjory Gaylord 1939; one s. one d.; ed. Easton High School, Pennsylvania State Univ., Calif. Inst. of Technology and Univ. of Pennsylvania; Research Asst. Johnson Research Foundation, Univ. of Pennsylvania 1937-38; Fellow 1938-40; Instructor in Physiology, Cornell Medical Coll., New York City 1940-41; Johnson Foundation Fellow and Lecturer in Biophysics, Univ. of Pa. 1941-47, Asst. Prof. 1947-48; Assoc. Prof. Johns Hopkins Univ. 1948-53; Prof. and mem. Rockefeller Inst. (now Univ.) 1953-, Acting Dean of Graduate Studies 1954-58, Dean of Graduate Studies 1958-72, Detlev W. Bronk Prof. 1974-; White Fellowship, Pennsylvania State Coll. (now Univ.); Lalor Fellowship, Univ. of Pennsylvania; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences. *Publications:* articles in scientific journals. *Leisure interest:* reading. *Address:* Rockefeller University, New York, N.Y. 10021 (Office); R.D.1., Pleasant Valley Road, Titusville, N.J. 08560, U.S.A. (Home). *Telephone:* (212) 360-1431 (Office).

BRINK, Johannes Roelof Maria van den, DR. ECON.; Netherlands banker and politician; b. 1915; ed. Catholic High School, Tilburg; with Ministry of Commerce and Industry 1940-42; Prof. Roman Catholic Univ., Nijmegen 1945-48; mem. First Chamber, States-Gen. 1945-48; Minister of Econ. Affairs 1948-52; Dir. and Gen. Adviser Amsterdam-Rotterdam Bank, N.V., and Incasso-Bank, N.V. 1952-53, Gen. Man. 1954, Man. Dir. 1978, mem. Supervisory Bd. 1978-; Chair Supervisory Board, AKZO N.V. *Address:* Herengracht 595, Amsterdam, Netherlands.

BRINK, R(oyal) Alexander, D.SC.; American geneticist; b. 16 Sept. 1897, Ont., Canada; s. of Royal Wilson Brink and Elizabeth Ann (Cuthbert) Brink; m. 1st Edith Margaret Whitelaw 1922 (deceased), 2nd Joyce Hickling 1963; one s. one d.; ed. Ontario Agricultural Coll., Univ. of Illinois and Harvard Univ.; Asst. Chemist, Western Canada Flour Mills 1919-20; Asst. Prof. of Genetics, Univ. of Wis. 1922-27, Assoc. Prof. 1927-31, Prof. 1931-68, Emer. Prof. 1968-, Chair. Dept. of Genetics 1939-51; Man. Editor Genetics 1951-56; Pres. Genetics Soc. of America 1957, American Soc. of Naturalists 1963; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences. *Publications:* numerous research articles in scientific journals on pollen physiology, the role of endosperm in seed development, plant breeding, gene action and mutation in maize, and paramutation; editor Heritage from Mendel. *Leisure interest:* colour photography. *Address:* Laboratory of Genetics, University of Wisconsin, Madison, Wis. 53706 (Office); 4237 Manitou Way, Madison, Wis. 53711, U.S.A. (Home). *Telephone:* (608) 262-3344 (Office); (608) 274-1349 (Home).

BRINKHOUS, Kenneth Merle, M.D., D.SC.; American pathologist; b. 29 May 1908, Clayton County, Iowa; m. Frances Benton 1936; two s.; ed. Univ. of Iowa; Assoc. in Pathology, Univ. of Iowa 1935-37, Asst. Prof. of Pathology 1937-45, Assoc. Prof. of Pathology 1945-46, Prof. 1946-61; Chair. of Pathology, Univ. of N. Carolina 1946-73, Alumni Distinguished Prof. of Pathology 1961-; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Univ. of Chicago); several awards including J. F. Mitchell Int. Award for Heart and Vascular Research, N. Carolina Award for Heart and Vascular Research, N. Carolina Award in Sciences 1969 and Murray Thelin Award, Nat. Haemophilia Foundation 1972. *Publications:* several publications on haemophilia, blood coagulation, thrombosis and related topics. *Address:* Department of Pathology, University of North Carolina, School of Medicine, Chapel Hill, N.C. 27514 (Office); 524 Dogwood Drive, Chapel Hill, N.C. 27514, U.S.A. (Home). *Telephone:* (919) 966-1061 (Office); (919) 942-4956 (Home).

BRINNIN, John Malcolm; American teacher and author; b. 13 Sept. 1916, Halifax, Canada; s. of John Thomas Brinnin and Frances Malcolm; ed. Univ. of Michigan and Harvard Univ.; Dir., The Poetry Center, New York, N.Y. 1949-57; Instructor in English, Vassar Coll. 1942-47; Assoc. Prof. of English, Univ. of Conn. 1951-62; Prof. of English, Boston Univ. 1962-; Nat. Inst. of Arts and Letters Award 1968; Centennial Medal for Distinction in Literature (Michigan Univ.), Gold Medal of Poetry Soc. of America. *Publications:* Dylan Thomas in America 1955, The Third Rose; Gertrude Stein and Her World 1958, The Selected Poems of John Malcolm Brinnin 1964, The Sway of the Grand Saloon: A Social History of the North Atlantic 1971. *Leisure interests:* Venice, archaeology. *Address:* Boston University, Commonwealth Avenue, Boston, Mass. 02215 (Office); King Caesar Road, Duxbury, Mass. 02332, U.S.A. (Home). *Telephone:* (617) 353-2506 (Office); (617) 834-5386 (Home).

BRION, Marcel; French writer; b. 21 Nov. 1895, Marseille; s. of Raoul Brion and Jeanne Berrin de Faultrier; m. Liliane Guerry 1940; one s. one d.; ed. Collège Champittet, Lausanne and Faculty of Law, Aix-en-Provence; Lawyer 1920-24; writer 1925-; mem. Académie Française 1964-; Grand Prix de Littérature, Académie Française 1953, Prix des Ambassadeurs 1955, Prix littéraire de Monaco 1956; Officer, Légion d'honneur, Commdr., Ordre du Mérite, Officer, Crown of Italy, Officer of the Order of Merit of Italy, Order of Merit of the Fed. Repub. of Germany. *Publications:* include Château d'ombres 1943, Goethe 1950, Léonard de Vinci 1954, Robert Schumann et l'âme romantique 1956, Romantic Art 1958, La chanson de l'oiseau étranger 1960, La ville de sable 1962, L'art abstrait, L'art fantastique, L'Allemagne romantique (2 vols.) 1963, La folie Céladon 1963, La rose de cire 1964, L'enchanteur, Les escales de la haute nuit 1965, De l'autre côté de la forêt 1966, La peinture romantique 1966, Les miroirs et les gouffres 1967, L'ombre d'un arbre mort 1970, Nous avons traversé la montagne 1972, La fête de la tour des âmes 1974, Algues 1976. *Leisure interests:* geology, gardening. *Address:* 32 rue de Bac, 75007 Paris, France. *Telephone:* 261-26-63.

BRISCO, Milo Martin; American business executive; b. 1912, Maud, Okla.; m.; two d.; ed. Univ. of Oklahoma; with Tropical Oil Co., Colombia, and other affiliates of Standard Oil Co. (N.J.) 1935-51; Asst. Gen. Man. Int. Petroleum, Colombia 1951-53, Gen. Man., Peru 1953, Colombia 1954-56; Exec. Vice-Pres. Int. Petroleum 1957-61, Pres. 1961-66; mem. Board of Dirs. Jersey Standard 1966-69; Vice-Pres. 1967, Exec. Vice-Pres. and mem. Board Exec. Cttee. 1968, Pres. Standard Oil Co. (N.J.) 1969-72; Dir. Int. Exec. Service Corps, Econ. Devt. Council New York, American Petroleum Inst., First Nat. City Bank, First Nat. Corpn., Council for Financial Aid to Educ. Inc.; Trustee, Univ. of Miami; mem. Board of Govs., United Way of America; mem. American Inst. of Mining, Metallurgical and Petroleum Engineers, New York Urban Coalition Inc., Council on Foreign Relations Inc., Brookings Inst., Econ. Club of New York. *Address:* c/o Exxon Corpn., 1251 Avenue of the Americas, New York, N.Y. 10020, U.S.A.

BRISSAUD, Raymond; French business executive; b. 3 June 1905, Paris; s. of Charles Brissaud and Marguerite Magnin; m. Yvonne Latou 1937; two s.; ed. Ecole St. Louis de Gonzague and Ecole Nationale Supérieure des Mines de Paris; Administrator Dir.-Gen. Electrorail, Belgium 1957-72, Hon. Admin. Dir.-Gen. 1972-; Pres. Dir.-Gen. Soc. Française des Distilleries de l'Indochine 1958-73, Admin. 1973-; Admin. Dir.-Gen. Schneider S.A. 1968-72, Hon. Admin. Dir.-Gen. 1972-; Pres. Jeumont-Schneider 1970-73, Admin. 1973-; Admin. Spie-Batignolles, Compagnie Financière de développement des Entreprises, Jeumont-Industrie, Lignes Télégraphiques et Téléphones (L.T.T.); Officier Légion d'honneur, Chevalier, Ordre de la Couronne de Belgique. *Address:* Schneider S.A., 42 rue d'Anjou, 75008 Paris (Office); 15 avenue de Madrid, 92 Neuilly-sur-Seine, France (Home).

BRISTOL, Bishop of (see Tinsley, Rev. Ernest John).

BRITTAIN, Alfred III, B.A.; American business executive; b. 22 July 1922; Evanston, Ill.; m. Beatrice Memhard 1948; one s. one d.; ed. Phillips Exeter Acad. and Yale Univ.; served with Army Air Corps 1942-46; with Bankers Trust Co., New York 1947-, Nat. Banking Dept. 1951-64, Head of Dept. 1964, later Vice-Pres. Special Industries Div., Asst. Treas. 1951, Asst. Vice-Pres. 1954, Vice-Pres. 1957, First Vice-Pres. 1962, Senior Vice-Pres. 1964, Pres. 1966-74, Chair. Jan. 1975-; Chair. and Dir. Bankers Int. Corpn.; Dir. Bankers Trust New York Corpn., Philip Morris Inc., Collins & Aikman Corpn., Bancom Devt. Corpn., Econ. Devt. Council, New York; mem. New York Chamber of Commerce and Industry; Trustee Phillips Exeter Acad. *Address:* 280 Park Avenue, New York, N.Y. 10017 (Office); 505 Indian Field Road, Greenwich, Conn. 06830, U.S.A. (Home).

BRITTON, Cedric John Charles, M.D., CH.B., D.P.H., F.R.C.PATH.; British consulting physician (retd.); b. 1904, Wellington, New Zealand; m. Miryem Adèle Gédance 1935; two s. one d.; ed. Nelson Coll., N.Z., Univ. of Otago, and Middlesex Hospital, London; Bacteriologist, Univ. of Otago 1931; Asst. Pathologist, The Middlesex Hospital 1932-33 and 1937-46, Christchurch Hospital, N.Z. 1934-36; fmr. Physician-in-charge Dept. Allergy and Hon. Haematologist, Prince of Wales's Hospital, London; Pathologist and Allergist, St. Andrew's Hospital, London; Hon. Pathologist, Finchley Memorial Hospital and Hendon District Hospital; Fellow American Acad.; fmr. Treas. British Allergy Soc.; fmr. Councillor, British Medical Assen.; mem. Int. Soc. of Allergy, Int. Soc. of Haematology, British and European Socs. of Haematology, Pathology Soc. of Great Britain and Ireland, Assen. Clinical Pathologists; hon. mem. Argentine and French Allergy Societies; Colls. of Allergy Award of Merit. *Publications:* Disorders of the Blood (10th edn.) 1969, Bone Marrow Biopsy 1949, numerous articles on haematological and allergic subjects. *Leisure interests:* gardening, philately. *Address:* Horizon, Wellington Parade, Walmer, Deal, Kent, CT14 8AB, England. *Telephone:* Deal 3309.

BROADBENT, Donald Eric, C.B.E., SC.D., F.R.S.; British psychologist; b. 6 May 1926, Birmingham; s. of Herbert Arthur Broadbent and Hannah Elizabeth Broadbent (née Williams); m. 1st Margaret Elizabeth Wright 1949, two d.; m. 2nd Margaret Hope Pattison Gregory 1972; ed. Pembroke Coll., Cambridge; Staff mem. Applied Psychology Unit, Medical Research Council 1949-58, Dir. 1958-74, External Staff 1974-; Pres. British Psychological Soc. 1965, Psychological Section, British Assen. for the Advancement of Science 1967, Experimental Psychology Soc. 1973; Fellow, British Psychological Soc., Acoustical Soc. of America, Human Factors Soc., Wolfson Coll., Oxford; Foreign Assoc. U.S. Nat. Acad. of Sciences; H.M. Vernon Prize, Kenneth Craik Award, Dist. Scientific Contribution Award of American Psychological Assen.; Lister Lecturer, British Assen. for the Advancement of Science; Gregynog Lecturer (Aberystwyth), Pillsbury Lecturer (Cornell), Fitts Lecturer (Michigan), William James Lecturer (Harvard); Fletcher-Stevens Lecturer (Utah), Bartlett Lecturer (Experimental Psychological Soc.); Hon. D.Sc. (Southampton). *Publications:* Perception and Communication 1958, Behaviour 1961, Decision and Stress 1971, In Defence of Empirical Psychology 1973. *Leisure interests:* reading, camping, photography. *Address:* Department of Psychology, 1 South Parks Road, Oxford, England. *Telephone:* 0865-56789.

BROADBENT, John Edward, M.A., PH.D.; Canadian professor and politician; b. 21 March 1936, Oshawa, Ont.; s. of Percy E. Broadbent and Mary A. Welsh; m. Lucille Munroe 1971; one s. one d.; ed. High School in Oshawa, Univ. of Toronto, London School of Econs. and Political Science; Prof. of Political Science, York Univ., Ont. 1965-68; mem. House of Commons 1968-; Co-Chair. Policy Review Cttee. for New Democratic Party Fed. Convention 1969; Chair. Fed. Caucus 1972-74, Parl. Leader of Fed. Caucus 1974-75; Nat. Leader of New Democratic Party July 1975-. *Publications:* The Liberal Rip-Off 1970. *Leisure interests:* reading contemporary fiction, listening to music, skiing. *Address:* Room 629c, House of Commons, Ottawa, Ont. (Office); 450 Laurier Avenue East, Ottawa, Ont., Canada. (Home). *Telephone:* 995-7224 (Office); 232-6941 (Home).

BROCHES, Aron, LL.D.; Netherlands international lawyer; b. 22 March 1914, Amsterdam; s. of Abraham Broches and Chaja Broches (née Person); m. Catherina Johanna Pothast 1939; one s. one d.; ed. Univ. of Amsterdam and Fordham Univ. Law School; Legal adviser, Netherlands Econ. Mission and Netherlands Embassy, New York and Washington, D.C. 1942-46; Sec. Netherlands Del. to UN Monetary and Financial Conf., Bretton Woods 1944; Sec. and Legal Adviser, Netherlands Del. to Inaugural Meeting, Int. Monetary Fund and Int. Bank for Reconstruction and Development 1946; Attorney in Legal Dept., IBRD 1946-51, Asst. Gen. Counsel 1951-56, Dir. Legal Dept. and Assoc. Gen. Counsel 1956-59, Gen. Counsel 1959-, mem. President's Council 1965-, Vice-Pres. 1972-; Sec.-Gen. Int. Centre for Settlement of Investment Disputes 1967–; Chief IBRD Econ. Survey Mission to Nigeria 1953-54; Trustee, Int. Legal Center 1969-77; mem. Exec. Council, American Soc. of Int. Law 1969-73, Int. Council for Commercial Arbitration 1972-, Advisory Council, World Peace Through Law. *Publications:* numerous works on legal aspects of economic development including International Legal Aspects of the Operations of the World Bank 1959, The Convention on the Settlement of Investment Disputes between States and Nationals of Other States 1972. *Leisure interest:* music. *Address:* World Bank, Washington D.C. 20433, U.S.A. *Telephone:* (202) 477-2087.

BRØCHNER-MORTENSEN, Knud, M.D.; Danish physician; b. 4 July 1906, Fredericia; s. of Vald Brøchner-Mortensen and Ingrid Schaffer; m. Else Stein 1932; two s. two d.; ed. Univ. of Copenhagen; Prof. of Medicine and Dir. of Medical Dept. A, Univ. Hospital of Copenhagen 1949-76; Dean of Medical Faculty, Univ. of Copenhagen 1956-57, mem. Konsistorium 1963-74, Chair. Medical Educ. Cttee. 1962-74; mem. Danish State Research Foundation 1963-68; Chair. Medical Council, Univ. Hospital of Copenhagen 1958-64; mem. Danish Forensic Council 1964-76; Hon. mem. American Rheumatism Assen., Sociedad Argentina de Reumatologia, Japanese Rheumatism Assen., Swedish Rheumatism Assen., Norwegian and Finnish Soc. of Internal Medicine; Heberden Oration Medal 1957, Klein Prize 1977. *Publications:* Uric Acid in Blood and Urine 1937. *Leisure interest:* history of medicine. *Address:* Fridtjof Nansens Plads 3, 2100 Copenhagen Ø, Denmark. *Telephone:* (01) 262210.

BROCK, Baron (Life Peer), cr. 1965, of Wimbledon; **Russell Claude Brock,** Kt., M.D., M.S., F.R.C.S., F.R.A.C.S., F.A.C.S.; British surgeon; b. 24 Oct. 1903; s. of Herbert and Elvina Brock; m. Germaine Louise Ladevèze 1927 (died 1978); three d.; ed. Christ's Hospital and Guy's Hospital, Univ. of London; Surgeon to Guy's Hospital 1936-68, to the Brompton Hospital 1936-68; Hunterian Prof., Royal Coll. of Surgeons 1938; Exchange Prof. of Surgery, Johns Hopkins Hospital, Baltimore 1949; mem. Council Royal Coll. of Surgeons 1949-, Vice-Pres. 1957-58, Pres. 1963-66; Dir. Dept. of Surgical Sciences, Royal Coll. of Surgeons 1968-; Hon. Sc.D. (Cantab.) 1968, LL.D. (Leeds), M.D. (Hamburg, Munich); numerous medals and prizes. *Publications:* Anatomy of the Bronchial Tree 1946, Life and Work of Astley Cooper 1952, Lung Abscess 1952, Anatomy of Pulmonary Stenosis 1957. *Address:* 2 Harley Street, London, W.1; The Old Rectory House, 84 Church Road, Wimbledon, London, S.W.19, England. *Telephone:* 01-580 1441.

BROCK, John Fleming, D.M., F.R.C.P.; South African professor of medicine; b. 27 March 1905; s. of Dr. John Brock and Mrs. E. E. Brock (née Fleming); m. Ruth M. Lomberg 1933; two s. two d.; ed. Grey School, Port Elizabeth, Univ. of Cape Town, Oxford Univ. and Harvard Medical School; taught at British Postgraduate Medical School, London 1935; Asst. Dir. of Research in Medicine, Cambridge Univ. 1936-38; Prof. of Medicine, Univ. of Cape Town 1938-71, Emer. 1971-; Pres. S.A. Coll. of Physicians, Surgeons and Gynaecologists 1965-68; Nutrition Consultant, WHO 1949-; mem. Council, Univ. of Cape Town 1960-; Consulting Physician, Groote Schuur Hosp.; Hon. F.A.C.P. 1966, Hon. F.C.P. (S.A.) 1973, Hon. D.Sc. (Univ. of Natal) 1971, Hon. LL.D. (Univ. of Witwatersrand) 1975. *Publications:* Recent Advances in Human Nutrition 1961; co-author Human Nutrition and Dietetics (6th Edn.) 1975; papers, monographs and lectures on clinical medicine, metabolism and human nutrition. *Leisure interests:* tennis, bowls, medical history, philosophy. *Address:* University of Cape Town, Department of Medicine, Medical School, Observatory, Cape 7925 (Office); Bendoran, Bishopscourt Drive, Claremont, Cape 7700, South Africa. (Home). *Telephone:* 55-3921 (Office); 716082 (Home).

BROCKWAY, Baron (Life Peer), cr. 1964, of Eton and Slough; **(Archibald) Fenner Brockway;** British politican; b. 1 Nov. 1888, Calcutta, India; s. of Rev. W. G. Brockway and Frances Elizabeth Abbey; m. 1st Lilla Harvey-Smith 1914, four d.; m. 2nd Edith King 1946, one s.; ed. School for Sons of Missionaries (now Eltham Coll.); Leader War Resisters' Movement during First World War; journalist; Chair. No More War Movement and War Resisters' Int. 1923-28; Gen. Sec. Independent Labour Party (ILP) 1923-26 and 1933-39, Chair. 1931-33, Political Sec. 1939-46, and Editor New Leader 1926-29 and 1931-46; resigned from ILP 1946; Chair. Congress of Peoples against Imperialism 1948-54; Chair. The Movement for Colonial Freedom (later "Liberation") 1954-67, Peace in Nigeria Cttee. 1967-70, British Council for Peace in Vietnam 1965-69; Pres. British Campaign for Peace in Vietnam 1970-76; Labour M.P. 1929-31, 1950-64; Vietnamese Friendship Order 1978. *Publications:* The Devil's Business 1915, Socialism and Pacifism 1917, The Government of India 1920, English Prisons To-day (with Stephen Hobhouse) 1921, A New Way with Crime 1928, The Indian Crisis 1930, Bloody Traffic 1933, Hungry England 1932, Will Roosevelt Succeed? 1934, Purple Plague (novel) 1935, Workers' Front 1938, Inside the Left 1942, Death Pays a Dividend (with F. Mullaly) 1944, German Diary 1946, Socialism over Sixty Years: Life of Jowett of Bradford 1946, Bermondsey Story: Life of Alfred Salter 1949, Why Mau-Mau? 1953, African Journeys 1955, 1960—Africa's Year of Destiny 1960, Red Liner 1962, Outside the Right 1962, African Socialism 1963, Immigration (with Norman Pannell) 1965, This Shrinking Explosive World: A Study in Race Relations 1967, The Next Step to Peace 1970, The Colonial Revolution 1973, Towards Tomorrow: an autobiography 1977, The Hope of Peace (with Lord Noel Baker) 1977. *Address:* House of Lords, London, S.W.1, and 67 Southway, London, N20 8DE, England. *Telephone:* 01-219 3193 (House of Lords); 01-445 3054 (Home).

BRODA, Dr. Christian; Austrian lawyer and politician; b. 12 March 1916, Vienna; ed. Akademische Gymnasium, Vienna and Univ. of Vienna; political imprisonment 1934; served in army 1940-45; subsequently in private legal practice, Vienna; mem. Bundesrat 1957-59, Nationalrat 1959-; mem. Penal Law Comm. 1957; Minister of Justice 1960-66, April 1970-; Socialist Party. *Address:* Federal Ministry of Justice, Vienna, Austria.

BRODAL, Alf, M.D.; Norwegian neuroanatomist; b. 25 Jan. 1910, Oslo; s. of Peter Brodal and Helene Obenauer; m. Inger Hannestad 1935; one s. two d.; ed. Univ. of Oslo; Assistant Dept. of Anatomy, Odontological High School of Norway, Oslo 1937-43; Prosector of Anatomy, Univ. of Oslo 1943-50, Prof. of Anatomy 1950-77, Dean Medical Faculty 1964-66, Pro-Rector 1967-69; Co-Editor Ergebn. Anat. Entwickl. gesch.; Rockefeller Fellowship, Dept. of Human Anatomy, Oxford Univ. 1946-47; Fellow, Norwegian Acad. of Sciences 1944; mem. Royal Soc. of Medicine, London 1946; Assoc. mem. Nordic Neurosurgical Assn. 1947, Anatomical Soc. of Great Britain and Ireland 1972; Hon. mem. American Neurological Assn. 1967, Norwegian Neurological Assn. 1973, American Assn. Anatomists 1977; mem. Deutsche Akad. Naturforscher Leopoldina 1964-; Corresp. mem. Belgian Acad. of Medicine 1969; Order of St. Olaf 1969; Fridtjof Nansen Prize 1952, Monrad-Krohn Prize 1941 and 1960; Barany Medal (Uppsala) 1963; Anders Jahre's Medical Prize 1966; Dr. h.c. (Univ. of Uppsala) 1966, (Univ. of Paris) 1975. *Publications:* (Monographs) The Reticular Formation of the Brain Stem 1957 (Russian edn. 1960), (with Jan Jansen) Aspects of Cerebellar Anatomy 1954, (with Jan Jansen) Das Kleinhirn 1958, (with Pompeiano and Walberg) The Vestibular Nuclei and their Connections 1962 (Russian edn. 1966); (Textbooks) Neurological Anatomy in Relation to Clinical Medicine 1948, 1969 (Japanese edn. 1961), The Cranial Nerves 1959, 1965. *Leisure interests:* literature (fiction), carpentry, painting, out-door recreation. *Address:* Anatomical Institute, University of Oslo, Karl Johans gt. 47, Oslo 1 (Office); Preståsen 14, Blommenholm, Baerum, Norway (Home). *Telephone:* 33-00-70 (Office); 54-83-50 (Home).

BRODIE, Bernard Beryl, PH.D.; American pharmacologist; b. 7 Aug. 1909, Liverpool, England; s. of Samuel Brodie and Esther Ginsburg; m. Anne L. Smith 1950; no c.; ed. McGill Univ., Montreal and New York Univ; Research Asst. in Pharmacology, New York Univ. Medical School 1935-38, Instructor in Pharmacology 1938-41, Instructor, Dept. of Medicine (Biochem.) 1941-43, Asst. Prof. of Pharmacology 1943-47, Assoc. Prof. of Biochem. 1947-50; Chief, Laboratory of Chemical Pharmacology, Nat. Heart and Lung Inst., Bethesda, Md. 1950-70; Senior Consultant Hoffman-La Roche Inc. 1971-; Founder Life Sciences; U.S. Editor and Co-Founder Pharmacology; Editor Medicina et Pharmacologia Experimentalis; Co-Founder and mem. Editorial Advisory Board International Journal of Neuropharmacology; mem. of Editorial and Advisory Boards of other medical journals; Claude Bernard Prof. Univ. of Montreal; Visiting Prof. Hershey Medical Centre, Hershey, Pa.; Scientist Emeritus, Nat. Inst. of Health; Fellow, N.Y. Acad. of Science; Hon. Life mem. Nat. Acad. of Sciences, N.Y. Acad. of Sciences; mem. Inst. of Medicine; Hon. mem. Soc. of Pharmaceutical Sciences, Italy; Paul Lamson Memorial Lecture 1971; Rosemary Cass Memorial Lecture, Univ. of Dundee 1971; T. Edward Hicks Memorial Lectureship in Pharmacy, Univ. of Iowa 1971; Hon. D.Sc. (Univs. of Louvain, Paris and Barcelona, Philadelphia Coll. and New York Medical Coll.); Hon. M.D. (Karolinska Institutet, Univ. of Cagliari); Distinguished Service Award of Dept. of Health, Educ. and Welfare 1958, Torald Sollmann Award in Pharmacology 1963, Distinguished Achievement, Modern Medicine 1964, Albert Lasker Award for Basic Medical Research 1967, Nat. Medal of Science 1968, Schmiedeberg-Plakette 1969, Oscar B. Hunter Memorial Award, Golden Plate Award 1970, Intra-Science Foundation Medallist 1972. *Publications:* Metabolic Factors Controlling Duration of Drug Action 1963, Drug Enzyme Interactions 1964, Handbuch der exp. Pharmakologie 1971, Bioavailability of Drugs 1973, Principles and Perspectives of Drug Availability 1979 and about 500 articles on biology. *Leisure interests:* bridge, swimming, reading. *Address:* 232 Angler Avenue, Palm Beach, Fla. 33480, U.S.A. *Telephone:* (305) 844-2773.

BRODSKY, Iosif Aleksandrovich; Russian-Jewish poet; b. 24 May 1940, Leningrad; ed. secondary school; began writing poetry 1955; sentenced to five years' hard labour in Arkhangelsk region for "social parasitism" 1964; sentence commuted 1965; refused visa to attend Poetry International, London, and Festival of Two Worlds, Spoleto 1969; involuntary exile in U.S. after brief stays in Vienna, London; appeared at Poetry International 1972; Poet in residence, Univ. of Michigan 1972-73; Queen's Coll., New York 1973-74; Poet in residence, Univ. of Michigan 1974-. *Publications:* A Christmas Ballad 1962, Elegy for John Donne 1963, Isaac and Abraham 1963, New Stanzas to Augusta 1964, Einem alten Architekten in Rom 1964, Verses on the Death of T. S. Eliot 1965, Verse and Poems (New York) 1965, French trans. Collines et autres poèmes 1966, German trans. Gedichte (Cologne) 1966, English trans. Elegy to John Donne & Other Poems 1967, Song Without Music 1969, A Stop in the Desert: Verse and Poems 1970, Selected Poems (Penguin) 1973. *Address:* c/o University of Michigan, Ann Arbor, Mich. 48109, U.S.A.

BROGLIE, Louis, duc de, D.SC.; French scientist; b. 15 Aug. 1892 Dieppe; s. of Victor, duc de Broglie, and Pauline de la Forest d'Armaillé; ed. Univ. of Paris; Professor of Theoretical Physics Paris Univ. (Inst. Henri Poincaré) 1928-; mem. Inst. de France, Acad. des Sciences 1933-; Life Sec. Acad. des Sciences 1942-; mem. Acad. Française 1943-; mem. Scientific Cttee. Atomic Energy Comm. 1946-; mem. Comité d'action scientifique de defense nationale 1950-67; Foreign Assoc. U.S. Nat. Acad of Sciences 1948; Foreign mem. Royal Soc. 1953; Hon. mem. Romanian Acad. 1965; Grand Croix, Légion d'honneur, Commdr. des Palmes académiques; Nobel Prize for Physics 1929, etc. *Publications:* La théorie de Quanta 1924, Ondes et Mouvements 1930, Introduction à l'étude de la mécanique ondulatoire 1926, Conséquences de la rélativité dans le développement de la mécanique ondulatoire 1933, Matière et Lumière, la Physique moderne et les quanta 1937, Une nouvelle théorie de la lumière 1940, Continue et Discontinue 1941, Mécanique ondulatoire à la théorie du Noyau 1943, Physique et Microphysique 1947, Savants et Découvertes 1951, Nouvelles perspectives en Microphysique 1957, Sur les Sentiers de la Science 1960, Certitudes et Incertitudes de la Science 1966, La Réinterprétation de la Mécanique Ondulatoire 1972, Recherches d'un demi-siècle 1976, etc. *Address:* 94 rue Perronet, 92 Neuilly-sur-Seine, France. *Telephone:* Maillot 76-09.

BROGLIO, Luigi; Italian aerospace engineer; b. 6 Nov. 1911, Venice; Full Professor of Aeronautical Structures, Rome Univ. 1944-, Head of School of Aerospace Eng. 1952-; Chair. Italian Space Comm. of Nat. Research Council 1959-68, Gen. Dir. San Marco Project (joint project with United States NASA); mem. NATO Advisory Group for Aeronautical Research; mem. Int. Acad. of Astronautics, American Soc. of Mech. Eng. *Publications:* over 100 papers on theory of elasticity, aerodynamics, dynamics, heat conduction in solids, orbit analysis, astronautics. *Address:* Scuola Ingegneria Aerospaziale dell'Università degli Studi di Roma, Via Eudossiana 16, 00184 Rome, Italy. *Telephone:* 461381, 4750887.

BROMBERGER, Merry Marie Louis (brother of Serge Paul Bromberger, q.v.); French journalist; b. 10 July 1906, Strasbourg; ed. Lycée d'Aix-en-Provence and Strasbourg Univ.; founded Le Courrier de Provence (daily) 1926; Editor Petit Marseillais; legal corresp. Le Matin 1930; Chief Reporter L'Intransigeant 1930-39, later with Paris-Soir, Combat, Paris-Presse-L'Intransigeant; with Constellation 1949-66; Chevalier, Légion d'honneur. *Publications:* Le Roman de l'Elysee, Comment ils ont fait fortune, Le Comte de Paris et la Maison de France, Le destin secret de Georges Pompidou; with Serge Paul Bromberger: Les secrets de l'expédition d'Egypte, Les 13 complots du 13 mai, Barricades et Colonels, Les Coulisses de l'Europe, Jean Monnet and the United States of Europe 1969. *Address:* 96 boulevard Maurice Barrès, Neuilly-sur-Seine (Seine), France. *Telephone:* Maillot 26-23.

BROMBERGER, Serge Paul (brother of Merry Marie Louis Bromberger, q.v.); French journalist; b. 29 Aug. 1912; ed. Lycée Mignet (Aix-en-Provence); Journalist 1934-; Reporter on Figaro 1945-75; Dir. Service des Enquêtes et Reportage 1971-75; adviser to Pres. of Figaro 1973-75; mem. Assn. des grands reporters français; Officier Légion d'honneur, Croix du combattant volontaire. *Publications:* Retour de Corée (co-author) 1951, Les Rebelles Algériens 1958, En 1990 1964; with Merry Bromberger: Les Secrets de l'expédition d'Egypte, Les 13 Complots du 13 mai 1959, Barricades et Colonels 1960, Les Coulisses de l'Europe 1968, Jean Monnet and the United States of Europe 1969. *Address:* 219 avenue de Versailles, Paris 16e, France.

BROMLEY, Yulian Vladimirovich, D.HIST.; Soviet historian; b. 21 Feb. 1921, Moscow; ed. Moscow Univ; Junior Research Assoc. Inst. of Slav Studies 1950-51; Scientific Sec. Dept. of History, U.S.S.R. Acad of Sciences 1951-66; Dir. Inst. of Ethnography, U.S.S.R. Acad. of Sciences 1966-; Second Sec. to History Dept. of Acad. of Sciences 1968-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-77, mem. 1977-; mem. Anthropological Inst. of G.B. and Ireland 1977-; mem. CPSU 1944-. *Publications:* Works on general history and ethnology include Middle Ages in Croatia, Ethnos and Ethnography 1973, Soviet Ethnology and Anthropology Today (editor) (English trans.) 1974, Soviet Ethnography: Main Trends

1976, Contemporary Ethnic Processes in U.S.S.R. (editor) 1977. *Address:* N. N. Miklukho-Maklai Institute of Ethnography, 19 Ulitsa Dmitriya Ulyanova, Moscow 117036, U.S.S.R.

BRONFMAN, Charles Rosner; Canadian company executive; b. 27 June 1931, Montreal, P.Q.; s. of the late Samuel and of Saidye (Rosner) Bronfman; m. Barbara Baerwald 1962; one s. one d.; ed. Selwyn House School, Montreal, P.Q., Trinity Coll., Port Hope, Ont., McGill Univ., Montreal, P.Q.; joined Distillers Corpn. Ltd. 1951; Nat. Sales Man. Thomas Adams Distillers Ltd. (a subsidiary of The House of Seagram) 1954; Vice-Pres. The House of Seagram 1955-58; Dir. and Vice-Pres. Distillers Corpn.-Seagrams Ltd. 1958-75; Pres. The House of Seagram 1958-75; Exec. Vice-Pres. Distillers Corpn.-Seagrams Ltd. 1971-75; Pres. The Seagram Co. Ltd. 1975-77, Chair. Exec. Cttee. 1975-; Chair. Joseph E. Seagram & Sons Ltd. 1975-. *Leisure interests:* tennis, skiing, golf. *Address:* The Seagram Company Ltd., 1430 Peel Street, Montreal, P.Q. H3A 1S9, Canada. *Telephone:* (514) 849-5271.

BRONFMAN, Edgar M., B.A.; American business executive; b. 20 June 1929, Montreal, P.Q.; s. of late Samuel Bronfman and of Saidye (Rosner) Bronfman; m. Anne M. Loeb; four s. one d.; ed. Trinity Coll. School, Port Hope, Ont., Williams Coll., Williamstown, Mass., and McGill Univ., Montreal; exécutive in charge of company's plants in Canada, Distillers Corpn.-Seagrams Ltd. 1953-55; Chair. Admin. Cttee., Joseph E. Seagram & Sons Inc., New York 1955, Pres. and Dir. 1957-71; Pres. Distillers Corpn.-Seagrams (now The Seagrams Co. Ltd.), Montreal July 1971-75, Chair. and Chief Exec. Officer, New York May 1975-; Dir. Adela Investment Co. S.A., Clevepak Corpn., Metropolitan Applied Research Center Inc., Int. Exec. Service Corps., American Technion Soc.; Founding mem. Rockefeller Univ. Council; Co-Chair. Devt. Fund for UN Int. School; Trustee Salk Inst. for Biological Studies, Nat. Urban League Inc., Mt. Sinai Hosp. and School of Medicine; mem. Board of Dirs. Interracial Council for Business Opportunity; mem. Foreign Policy Assen., American Foreign Service Assen., Center for Inter-American Relations Inc., Cttee. for Econ. Devt., etc. *Address:* Distillers Corporation—Seagrams Ltd., 1430 Peel Street, Montreal, P.Q. H3A 1S9, Canada; Home: 60 Lincoln Avenue, Purchase, N.Y., U.S.A.

BRONIAREK, Zygmunt; Polish journalist and broadcaster; b. 27 Aug. 1925, Warsaw; s. of Wacław Broniarek and Marianna Broniarek; m. Elzbieta Sarcewicz 1972; ed. Cen. School of Planning and Statistics, Warsaw; Radiotelegraphic operator and stenographer, Czytelnik publishers, Warsaw 1945-48; Corresp. Trybuna Ludu 1950-; in U.S.A. 1955, 1958, 1975, Latin America 1956, Paris 1959-60, 1969-73, Washington 1960-67, East Africa 1975, West Africa 1976, Nordic Countries Dec. 1977-; Corresp., Polish Radio and TV, for Finland and Sweden; Chair. Polish Assen. of Int. Journalists and Writers 1974-77; Presenter The Guests of Mr. Broniarek (TV); Int. Journalists Club of Polish Journalistic Assen. Prize 1978; Gold Cross of Merit, Commdr's. Cross Order of Polonia Restituta, Commdr's. Cross with star of Infante Dom Henrique the Navigator (Portugal). *Publications:* Od Hustonu do Mississipi, Gorące dni Manhattanu, Szczeble do Białego Domu, Walka o Pałac Elizejski 1974 1974, Kto się boi rewolucji 1975, Angola zrodzona w walce 1977, Jak się nauczyłem sześciu języków 1977. *Leisure interests:* good company, good food. *Address:* 22 Hagalundsgatan, apt. 364 171 50 Solna, Stockholm, Sweden; U1. Grójecka 81/87 m. 79, 02-094 Warsaw, Poland (Home) *Telephone:* (08) 27-51-57 (Stockholm); 23-52-23 and 26-33-04 (Warsaw).

BRONSON, Charles (Charles Buchinsky) American actor; b. 3 Nov 1922, Ehrenfield, Pa.; m. 1st. Harriet Fendler (divorced); two c.; m. 2nd. Jill Ireland 1969; one d.; played small parts in Hollywood films in the 1950's before coming into prominence in The Magnificent Seven 1960; other films include: A Thunder of Drums, 1961, Lonely Are the Brave 1962, The Great Escape 1963, The Sandpiper 1965, Battle of the Bulge 1965, This Property is Condemned 1966, The Dirty Dozen 1967, Guns for San Sebastian 1969, Rider in the Rain 1969, Twinky 1969, You Can't Win Them All 1970, Cold Sweat 1971, The Family 1971, Chato's Land 1972, The Mechanic 1972, The Valachi Papers 1972, Wild Horses 1973, The Stone Killer 1973, Mr. Majestyck 1974, Death Wish 1974, Breakout 1975, Hard Times 1975, The Breakfast Pass 1976, From Noon till Three 1976, St. Ives 1976, The White Buffalo 1976, Telefon 1977; television includes Raid on Entebbe 1976; also appeared on many American series during 1950's and 1960's. *Address:* c/o Paul Kohner, 9169 Sunset Boulevard, Los Angeles, Calif. 90069, U.S.A.

BRONSTON, Samuel; American film producer; ed. Université de Paris à la Sorbonne; former film distributor Paris; fmr. unit production exec. with Columbia Studios Hollywood; founder Samuel Bronston Pictures Inc., now Pres. *Productions include:* King of Kings, El Cid 1960, 55 Days to Peking 1962, Fall of the Roman Empire 1963, The Magnificent Showman (Circus World, U.K.) 1964.

BROOK, Alexander; American artist; b. 14 July 1898, Brooklyn; ed. Art Students' League; Logan Medal, Chicago Art Inst. 1929, Beck Gold Medal, Pennsylvania Acad. 1948; and several other awards. Represented permanently in Metropolitan Museum New York City; Brooklyn (N.Y.) Museum; Art Inst. Chicago; Carnegie Inst. Pittsburgh; Nebraska Univ.; William Nelson Gallery, Kansas City, Mo.; Wadsworth Athenæum, Hartford, Conn.; Museum of Modern Art, New York City; Newark (N.J.) Museum; and many other U.S. museums, etc. *Address:* c/o Larcada Gallery, 23 East 67th Street, New York, N.Y. 10021; and Sag Harbor, Long Island, N.Y., U.S.A.

BROOK, Peter, C.B.E.; British theatre and film director; b. 21 March 1925; m. Natasha Parry 1951; one s. one d.; ed. Westminster and Gresham's Schools, and Magdalen Coll., Oxford; joined Royal Shakespeare Co. 1962; Producer, Co-Dir. Royal Shakespeare Theatre; founded Int. Theatre Research Centre, Paris 1970, has toured with group in Iran, W. Africa; *Productions include:* Dr. Faustus 1943, Pygmalion, King John, Lady from the Sea 1945, Romeo and Juliet (at Stratford) 1947, Dir. of Productions at Covent Garden Opera 1949-50, The Beggar's Opera (film) 1952, Faust (at Metropolitan Opera, N.Y.) 1953, The Dark is Light Enough (in London) 1954, House of Flowers (in N.Y.) 1954, Cat on a Hot Tin Roof (in Paris) 1956, Eugene Onegin (N.Y.) 1958, View from the Bridge (Paris) 1958, The Fighting Cock (N.Y.) 1959, Moderato Cantabile (film) 1960, Irma la Douce 1960, Lord of the Flies (film) 1962, King Lear 1963, The Physicists (N.Y.) 1964, The Marat/Sade (N.Y.) 1965 (film) 1966, US 1966, Tell Me Lies (film) 1968, Oedipus (Seneca) 1968, A Midsummer Night's Dream 1970, King Lear (film) 1971, The Conference of the Birds 1973, Timon of Athens (Paris) 1974, The Ik (Paris) 1975, (London) 1976, (U.S.A.) 1976, Ubu (Paris) 1977, Meetings with Remarkable Men (film) 1977, Antony and Cleopatra (at Stratford) 1978, Measure for Measure (Paris) 1978. *Publication:* The Empty Space 1968. *Address:* c/o C.I.R.T., 9 rue du Cirque, 75008 Paris, France.

BROOK, Sir Robin (Ralph Ellis), Kt., C.M.G., O.B.E.; British business executive; b. 19 June 1908; s. of Francis Brook, F.R.C.S.; m. Helen Knewstub 1937; two d.; ed. Eton and Kings Coll., Cambridge; military service 1941-46, Brig. 1945; Dir. Bank of England 1946-49; Deputy Chair. British Tourist and Holidays Board 1946-50, Colonial Devt. Corpn. 1949-53; Chair. London Chamber of Commerce and Industry 1966-68, Pres. 1968-72; Pres. Assen. of British Chambers of Commerce 1972-74, Conf. of Chambers of Commerce of EEC; Dir. British Petroleum Co. 1970-73; Chair. Leda Investment Trust Ltd., CARCLO Ltd.; Deputy Chair. United City Merchants; Dir. Dimplex Ltd., C. E. Coates and Co. Ltd.; mem. Cttee. on Invisible Exports 1969-75, mem. Sports Council 1971-, Chair. 1975-78; Vice-Chair. City and East London AHA 1974-; Gov., Sports Aid Foundation; British Sabre Champion 1936; Olympic Games 1936, 1948; Commdr. Legion of Merit; Legion of Honour; Croix de guerre and Bar; Order of Leopold (Belgium); Belgian Croix de guerre. *Address:* 31 Acacia Road, London, N.W.8, England. *Telephone:* 01-722 5844.

BROOKE, Edward William, LL.D.; American lawyer and politician; b. 26 Oct. 1919, Washington, D.C.; s. of Edward and Helen Brooke; m. Remigia Ferrari Scacco 1947 (dissolved); two c.; ed. Howard Univ. and Boston Univ; Admitted to Mass. Bar 1948; Chair. Finance Comm., Boston 1961-62; Attorney-Gen. of Mass. 1963-67; Senator from Mass. 1967-79; Chair. Boston Opera Co.; Fellow, American Bar Assen., American Acad. of Arts and Sciences; numerous hon. degrees; Republican. *Address:* 535 Beacon Street, Newton Centre, Mass., U.S.A.

BROOKE OF CUMNOR, Baron (Life Peer), cr. 1966; **Rt. Hon. Henry Brooke,** P.C., C.H.; British politician; b. 9 April 1903, Oxford; s. of Leonard Leslie Brooke and Sybil Diana Brooke; m. Barbara Mathews (Baroness Brooke of Ystradfellte) 1933; two s. two d.; ed. Marlborough Coll. and Balliol Coll., Oxford; Member of Parl. 1938-45, 1950-66; Deputy Chair. Southern Railway Co. 1946-48; Financial Sec. to Treasury 1954-57; Minister of Housing and Local Govt., Minister for Welsh Affairs 1957-61, Chief Sec. to Treasury and Paymaster-Gen. 1961-62; Home Sec. 1962-64; mem. Cen. Housing Advisory Cttee. 1944-54, London County Council 1945-55, Hampstead Borough Council 1936-57; Chair. Marlborough Coll. Council 1971-74; Chair. Assen. of Independent Unionist Peers 1970-74; Conservative. *Address:* The Glebe House, Mildenhall, Marlborough, Wilts., England. *Telephone:* (0672) 52769.

BROOKER, Robert Elton; American businessman; b. 18 July 1905, Cleveland; s. of Robert and Isadora (Roberts) Brooker; m.

Sally Burton Smith 1933; two s.; ed. Univ. of Southern California; with Southern California Edison Co. 1928-34, Firestone Tire and Rubber Co. 1934-44, Sears, Roebuck & Co. 1944-58; Pres. Whirlpool Corpn. 1958-61; Pres. Montgomery Ward & Co. 1961-66, Chair. 1966-70, Chair. Exec. Cttee. 1970-; Chair. Marcor Inc. 1968-70, Chair. Exec. Cttee. 1970-75; Pres. Institutional Liquid Asset Fund; Dir. C.N.A. Income Shares, Chicago and North Western Transportation Co. *Address:* One First National Plaza, Suite 2656, Chicago, Ill. 60603 (Office); 1500 Sheridan Road, Wilmette, Ill. 60091, U.S.A. (Home). *Telephone:* (312) 467-3859 (Office).

BROOKES, Rev. Edgar Harry, M.A., D.LITT., LL.D.; South African journalist, writer and ecclesiastic; b. 4 Feb. 1897, Smethwick, England; s. of Job H. Brookes and Emily E. Brookes (née Thomas); m. 1st Heidi G. Bourquin 1925; three s. two d.; m. 2nd Edith Constance Moe 1978; Professor of Public Admin. and Political Science Univ. of Pretoria 1923-33; Principal, Adams Coll., Natal 1934-45; Senator representing Africans of Natal and Zululand in Union Parl. 1937-52; mem. Perm. Native Affairs Comm. 1945-50; Pres. S.A. Inst. of Race Relations 1932-33, 1946-48, 1959-60; S.A. Del. to L.N. 1927, and to UNESCO 1947; Prof. of History and Political Science, Univ. of Natal 1959-62; Nat. Chair. Liberal Party of South Africa 1963-68. *Publications:* History of Native Policy in South Africa 1924, Native Education in South Africa 1929, The Colour Problems of South Africa 1933, The House of Bread (poems) 1944, The Bantu in South African Life 1946, South Africa in a Changing World 1953, The Native Reserves of Natal 1956, Civil Liberty in South Africa 1958, The City of God and Politics of Crisis 1960, Power, Law, Right and Love 1963, A History of Natal (with C. de B. Webb) 1965, A History of the University of Natal 1967, Apartheid: A documentary Study of South African Politics 1968, White Rule in South Africa 1830-1910 1974, A South African Pilgrimage (autobiography) 1978. *Address:* 4 Chapter Close, 6 Taunton Road, Pietermatitzburg, South Africa.

BROOKES, Baron (Life Peer), cr. 1975, of West Bromwich, West Midlands; **Raymond Percival Brookes,** Kt.; British business executive; b. 10 April 1909, West Bromwich, Staffs.; s. of William Percival Brookes; m. Florence E. Sharman 1937; one s.; ed. West Bromwich School, Kenrick Technical Coll.; apprenticed as engineer 1923; joined GKN as joint Gen. Man. of Carringtons Ltd. 1941, subsequently Man. Dir. and Chair.; Chair. GKN Forgings and Castings Ltd.; fmr. Chair. Joseph Sankey and Sons Ltd. (now GKN Sankey Ltd.); Dir. Guest Keen and Nettlefolds Ltd. 1953, Deputy Group Man. Dir. 1962, Group Man. Dir. 1964, Group Chair. and Man. Dir. (subsequently relinquished Man. Directorship) 1964, Group Chair. and Chief Exec. 1966-75, Life Pres. 1975-; part-time mem. British Steel Corpn. 1967-68; First Pres. British Mechanical Eng. Confederation 1968-70; Vice-Pres. Engineering Employers' Fed. 1967-; mem. Council Soc. of Motor Manufacturers and Traders Ltd. 1969-, mem. Exec. Cttee. 1970-, Pres. 1974-; mem. Council CBI 1968-, BNEC 1969-71, Wilberforce Court of Inquiry into electricity supply industry dispute Jan. 1971, Industrial Development Advisory Board 1972-75, Management Board UNI-Cardan Group Lohmar, Fed. Repub. of Germany 1975-78; Chair. Rea Brothers (Isle of Man) Ltd.; Dir. AMF Inc. U.S.A., Mannin Industries Ltd., Mannin Trustee Co. Ltd.; non-Exec. Dir. Plessey Co.; Hon. Fellow, Inst. of Sales Engineers 1973; Pres. Motor Ind. Research Assn. 1973-75. *Leisure interests:* fly-fishing, golf. *Address:* Guest, Keen and Nettlefolds Ltd., GKN House, 22 Kingsway, London, WC2B 6LG, England. *Telephone:* 01-242 1616.

BROOKS, Cleanth, A.B., A.M., B.A., B.LITT., D.LITT., L.H.D.; American university professor; b. 16 Oct 1906, Murray, Ky.; s. of Cleanth Brooks and Bessie Lee Witherspoon; m. Edith Amy Blanchard 1934; ed. The McTyeire School, Vanderbilt Univ., Tulane Univ. and Oxford Univ; Professor of English, Louisiana State Univ. 1932-47, Yale Univ. (now Gray Prof. Emer. of Rhetoric) 1947-; Man. Editor, later Editor (with Robert Penn Warren) Southern Review, Baton Rouge, Louisiana 1935-42; Hon. Consultant, Library of Congress 1952-62; Cultural Attaché American Embassy, London 1964-66; mem. American Acad. of Arts and Sciences, Nat. Inst. of Arts and Letters, American Philosophical Soc., Royal Soc. of Literature. *Publications:* Modern Poetry and the Tradition 1939, The Well-Wrought Urn 1947; with Robert Penn Warren: Understanding Poetry 1938, Understanding Fiction 1943, Modern Rhetoric 1950; Literary Criticism: A Short History (with W. K. Wimsatt, Jr.) 1957, The Hidden God 1963, William Faulkner: the Yoknapatawpha Country 1963, A Shaping Joy 1971, American Literature: the Makers and the Making (with R. W. B. Lewis and R. P. Warren) 1973, William Faulkner: Toward Yoknapatawpha and Beyond 1978; Gen. Editor (with David N. Smith) The Percy Letters, 10 vols. 1942-; Editor: The Correspondence of Thomas Percy and Richard Farmer 1946, The Correspondence of Thomas Percy and William Shenstone 1977. *Address:* Forest Road, Northford, Conn. 06472, U.S.A.

BROOKS, Gwendolyn; American writer; b. 7 June 1917, Topeka; d. of David Brooks and Keziah Wims; m. Henry Blakely; one s. one d.; ed. Englewood High School and Wilson Junior Coll; Poet Laureate for State of Illinois 1968-; Teacher of poetry at Northeastern Illinois State Coll., Columbia Coll., Chicago and Elmhurst Coll., mem. Nat. Inst., American Acad. of Arts and Letters, Poetry Soc. of America, Nat. Assn. for Advancement of Coloured People, Third World Press; cited for creative writing by American Acad. of Arts and Letters 1946; Guggenheim Fellow 1946, 1947; Pulitzer Prize for Poetry for Annie Allen 1950; Anisfield-Wolf Award 1969, Shelley Memorial Award. *Publications:* A Street in Bronzeville 1945, Annie Allen 1949, Maud Martha 1953, Bronzeville Boys and Girls 1956, The Bean Eaters 1960, Selected Poems 1963, In the Mecca 1968, Riot 1969, Family Pictures 1970, Aloneness 1971, Report From Part One (autobiography) 1972. *Address:* 7428 South Evans Avenue, Chicago, Ill. 60619, U.S.A.

BROOKS, Harvey, A.B., PH.D.; American physicist; b. 5 Aug. 1915, Cleveland, Ohio; s. of Chester Kingsley Brooks and Elizabeth Brown Brooks; m. Helen Gordon Lathrop 1945; one s. three d.; ed. Yale and Harvard Univs; Society of Fellows, Harvard Univ. 1940-41, Research Assoc. Harvard Underwater Sound Laboratory 1942-45; Gordon McKay Prof. of Applied Physics 1950-, Dean of Engineering and Applied Physics 1957-74; Asst. Dir. Ordnance Research Laboratory, Pennsylvania State Univ. 1945-46; Assoc. Laboratory Head, Knolls Power Laboratory, Gen. Electric Schenectady 1946-50; Editor-in-Chief Physics and Chemistry of Solids; Dir. Raytheon Co.; Chair. Board of Trustees, German Marshall Fund; mem. Board of Trustees, Case Western Reserve Univ., Woods Hole Oceanographic Inst.; fmr. Pres. American Acad. of Arts and Sciences; mem. Council on Library Resources, Nat. Acad. of Engineering, Nat. Acad. of Sciences, American Philosophical Soc.; Hon. D.Sc.; Ernest Orlando Lawrence Award 1960. *Publications:* The Government of Science 1968; numerous articles in Physical Review, Nuclear Science and Engineering, and other scientific journals. *Address:* 217 Pierce Hall, Harvard University, Cambridge, Mass. 02138 (Office); 46 Brewster Street, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 868-7600, Ext. 2831 (Office); 354-7170 (Home).

BROOKS, James; American painter; b. 18 Oct. 1906, St. Louis, Mo.; s. of William R. Brooks and Abigail Williamson; m. 1st Mary Macdonald 1933, 2nd Charlotte Park 1947; ed. Southern Methodist Univ., Art Students League, N.Y.C., and with Wallace Harrison. Federal Arts Mural Projects 1938-42; taught at Columbia and Yale Univs. and at Queens Coll. 1947-67; several one-man shows 1949-72; Visiting Artist, New Coll, Sarasota, Fla. 1965-; represented in Museum of Modern Art, Metropolitan Museum, Guggenheim, Whitney, Brooklyn, New York, Tate Gallery, London, etc.; several shows abroad; retrospective exhbn. Whitney Museum of American Art 1963-64, Dallas Museum of Art 1972; Artist in Residence, American Acad. in Rome 1963; Prof., Queen's Coll. 1968; Guggenheim Fellowship 1967-68; Visiting Critic, Univ. of Pennsylvania 1971-72, 1973; Carnegie Int. Prize 1952; Art Inst. of Chicago Prize 1957, 1961; Ford Foundation 1962; mem. Nat. Inst. of Arts and Letters, Century Assn. N.Y.C. *Address:* 128 Neckpath, Springs, East Hampton, N.Y. 11937, U.S.A.

BROOKS, John Wood, A.B.; American chemical executive; b. 9 Oct. 1917, New York; s. of Arthur Brooks and Mary TenEyck Oakley; m. Margaret O. Magoun 1958; two s. four d.; ed. Groton School and Harvard; sales positions in textile industry 1939-53; Vice-Pres., Gen. Sales Man., Textile Div., Spring Mills Inc. 1953-54; Gen. Merchandise Man., Textile Div., Celanese Corpn. 1955, Dir. Fibers Marketing 1955-56, Vice-Pres., Gen. Man. Fibers Div. 1956-59, Exec. Vice-Pres. 1960-65, Dir. 1961, Pres. 1965-73, Chief Exec. Officer 1968-78, Chair. 1971-; Dir. ACF Industries Inc., Bankers Trust Co.; Co-Chair. Board of Trustees, Presbyterian Hospital, New York. *Address:* 1211 Avenue of the Americas, New York, N.Y. 10036 (Office); 363 Cantitoe Road, Bedford Hills, N.Y. 10507, U.S.A. (Home).

BROOKS, Richard; American film writer and director; b. 18 May 1912; m. Jean Simmons; ed. Temple Univ.; formerly worked for NBC as writer and commentator; now directs and writes screenplays for films. Wrote and directed: Deadline, U.S.A., Battle Circus, Last Hunt, Something of Value, The Brothers Karamazov, Cat on a Hot Tin Roof, Elmer Gantry (Acad. Award for Screenplay 1961), Sweet Bird of Youth, Lord Jim (also producer), In Cold Blood, The Professionals; Directed and collaborated on screenplays of: Last Time I Saw Paris, Blackboard Jungle, Looking for Mr Goodbar; Directed: Take the High Ground, Flame and the Flesh, Catered

Affair, The Happy Ending, Dollars (The Heist, U.K.), Bite The Bullet; Wrote screenplay for: Swell Guy, White Savage, Brute Force, To the Victor, Crossfire. *Publications:* (novels) Boiling Point, The Producer. *Address:* c/o Irving Paul Lazar Agency, 211 South Beverly Drive, Suite 100, Beverly Hills, Calif. 90212, U.S.A.

BROOKS-RANDOLPH, Angie Elizabeth, LL.D.; Liberian lawyer and UN official; b. 24 Aug. 1928, Virginia, Montserrado County; m. Isaac Rudolph 1970; two s. (by previous marriage); ed. Shaw Univ., N.C., Howard Univ., Univs. of Wisconsin, London and Liberia; Counsellor-at-Law, Supreme Court of Liberia 1953; Asst. Attorney-Gen. 1953-58; Asst. Sec. of State 1958-71; Prof. of Law, Liberia Univ. 1954-58; Vice-Pres. Int. Fed. of Woman Lawyers 1956-58, Pres. 1964-67; Liberian Del., UN Gen. Assembly 1954, Perm. Rep., concurrently Amb. to Cuba 1976-77; Assoc. Justice, Supreme Court, Monrovia 1977-; Vice-Chair. Fourth UN Cttee. 1956; Vice-Pres. Cttee. on Information from Non-Self-Governing Territories 1961; Chair. Fourth Cttee. 1961; Chair. UN Comm. for Ruanda-Urundi 1962; Chair. of UN Visiting Mission to Trust Territory of Pacific Islands 1964; Vice-Pres. Trusteeship Council 1965, Pres. 1966; Pres. XXIVth Session UN Gen. Assembly 1969-70; Pres. Congress on Adoption and Placement, Milan 1971; Amb.-at-Large 1971-; Hon. LL.D. (Shaw and Harvard Univs., U.S.A., Univ. of Liberia); numerous decorations. *Address:* c/o Supreme Court, Monrovia, Liberia.

BROOME, David, O.B.E.; British farmer and professional show jumper; b. 1 March 1940, Cardiff; s. of Fred and Amelia Broome; ed. Monmouth Grammar School for Boys. European Show Jumping Champion, riding Sunsalve, Aachen 1961, riding Mr. Softee, Rotterdam 1967 and Hickstead 1969; World Champion, riding Beethoven, La Baule (France) 1970; Professional Champion of World, riding Sportsman and Philco, Cardiff 1974; Master of Foxhounds. *Publications:* Jump-Off 1970. *Leisure interests:* hunting, shooting, golf. *Address:* Mount Ballan Manor, Crick, Newport, Gwent, Wales, United Kingdom. *Telephone:* Caldicot 420777.

BROPHY, Brigid, F.R.S.L.; British novelist and critic; b. 12 June 1929, London; d. of late author John Brophy and Charis (Grundy); m. Michael Levey (q.v.) 1954; one d.; ed. St. Paul's Girls School, London, and St. Hugh's Coll., Oxford. Founder mem. Writers' Action Group 1972; Exec. Councillor Writers' Guild of Great Britain 1975-78; mem. British Copyright Council 1976, Vice-Chair. 1977. *Publications:* Hackenfeller's Ape 1953, The King of a Rainy Country 1956, Black Ship to Hell (non-fiction) 1962, Flesh 1962, The Finishing Touch 1963, The Snow Ball 1964, Mozart the Dramatist (non-fiction) 1964, The Waste Disposal Unit (play) 1965, Don't Never Forget (non-fiction) 1966, The Burglar (play) 1967 (published with preface 1968), Black and White, A Portrait of Aubrey Beardsley (non-fiction) 1968, In Transit 1969, Prancing Novelist (non-fiction) 1973, The Adventures of God in His Search for the Black Girl 1973, Pussy Owl 1976, Beardsley and his World (non-fiction) 1976, Palace Without Chairs 1978. *Address:* Flat 3, 185 Old Brompton Road, London, S.W.5, England.

BROPHY, Theodore F., B.A., LL.B.; American business executive; b. 4 April 1923, New York; m. Sallie M. Showalter; two c.; ed. Yale Univ. and Harvard Univ. Law School. Associate, law firm of Root, Ballantine, Harlan, Bushby & Palmer 1950-55; Gen. Counsel, The Lummus Co. 1955-58; Gen. Telephone and Electronics Corpn., Counsel 1958-59, Vice-Pres. and Gen. Counsel 1959-68, Exec. Vice-Pres. 1968-69, Dir. 1969-72, Pres. 1972-76, Chair. and Chief Exec. 1976–; mem. American Bar Assn. and Past Chair. Public Utility Law Section; mem. Fed. Communications Bar Assn.; Public mem. Admin. Conf. of the U.S. 1970-72. *Address:* One Stamford Forum, Stamford, Conn. 06904; and 909 Third Avenue, New York, N.Y. 10072, U.S.A. *Telephone:* (203) 357-2104.

BROSIO, Manlio, LL.D.; Italian lawyer, diplomatist and politician; b. 10 July 1897; s. of Eduardo and Fortunata Curadelli; m. Clotilde Brosio 1936; ed. Turin Univ.; commenced practising law 1920; joined political anti-Fascist movement "Rivoluzione Liberale"; collaborated in publications 1919-26; policital sec. of movement; mem. opposition cttee. against Fascism 1924-26; mem. Cttee. of Nat. Liberation, Rome 1943-44; Sec. Italian Liberal Party; Minister without Portfolio, Vice-Pres. of Council and Minister of War 1945-46; Italian Amb. to U.S.S.R. 1947-52, to Great Britain 1952-54, to U.S.A. 1955-61, to France 1961-64; Sec.-Gen. North Atlantic Treaty Org. (NATO) 1964-71; retd. 1971; Senator of the Repub. for Turin (Liberal) 1972-. *Address:* Senate of the Republic, Palazzo Madama, Rome (Office); Corso Re Umberto 29 bis, 10128 Turin, Italy. (Home). *Telephone:* 532441, 548597.

BROST, Erich Eduard; German publisher and journalist; b. 29 Oct. 1903; ed. St. Peter and St. Paul's High School, Danzig. Editor Danziger Volksstimme 1924-36; journalist in Poland, Sweden, Finland and Great Britain 1936-45, in Essen and Berlin 1945-48; Publisher Westdeutsche Allgemeine Zeitung, Essen 1948-. *Address:* 36-38 Friedrichstr., 43 Essen, Federal Republic of Germany. *Telephone:* Essen 20641.

BROUILLET, René Alexis, K.C.V.O.; French diplomatist and civil servant; b. 9 May 1909, Cleppé; s. of Antonin Brouillet and Marie Legay; m. Noëlle Dibsky 1939; one s. four d.; ed. Lycée St. Etienne, Lycée Louis-le-Grand, Ecole Normale Supérieure, Ecole des Sciences Politiques. Asst., Inst. Scientifique de Recherches Economiques et Sociales 1935; Sec.-Gen. Centre Polytechnicien d'Etudes Economiques 1936; Auditeur, Cour des Comptes 1937; Chef Adjoint du Cabinet of Pres. of Senate 1939-40; Dir. Juridical Service, Secretariat of State for Industrial Production 1941-42; Conseiller Référendaire, Cour des Comptes 1943; Dir. du Cabinet of Georges Bidault when Pres. Conseil Nat. de la Résistance 1943-44; Dir. Adjoint du Cabinet, Gen. de Gaulle 1944-46; mem. Council of Admin. Ecole Nat. d'Administration 1945; Sec.-Gen. Tunisian Govt. 1946-50; 1st Counsellor French Embassy Berne 1950-53; Dir. Adjoint du Cabinet, Ministry of Foreign Affairs (Bidault) 1953; 1st Counsellor French Embassy, Vatican 1953-58; Sec.-Gen. to President of Council for Algerian Affairs June 1958; Dir. du Cabinet, Gen. de Gaulle Jan. 1959-61; Ambassador to Austria 1961-63, to Vatican 1963-73; promoted to the rank of Ambassadeur de France 1969; mem. Conseil Constitutionnel 1974-; mem. Comm. for Diplomatic Archives, and Comm. for publication of Documents on Origins of Second World War 1975-; Grand Officer, Légion d'honneur, Grand Cross of the Order of Pius IX, Grand Cross Order of Merit of the Austrian Repub. *Leisure interests:* history, literature and public law. *Address:* 77 rue Claude Bernard, Paris 5e; and Cleppé (Loire), France.

BROUSSE, Pierre, French politician; b. 1926, Limoges, Haute Vienne; m. Edmée Nouchy 1954; ed. Lycée de Tulle, Corrèze, Institut d'Etudes Politiques, Paris and Univ. of Paris. President, Radical Students Group 1949; Ministry of Industry 1954-56; Pres., Young Radicals Group 1956-58; Joint Sec.-Gen. Radical Party 1958-61, Sec.-Gen. 1961-69; mem. and Délégué général, Fédération de la gauche démocrate et socialiste 1966-; Mayor of Béziers 1967-77; Gen. Counsellor of Hérault 1967-; Senator for Hérault 1968-76; Minister of Commerce and Handicrafts and Small Businesses 1976-77; Vice-Pres. Radical Party 1969-71, 1977-; Conseiller d'Etat 1977. *Address:* 14 rue Ernest Psichari, Paris 7e; 1 Impasse Baudin, Béziers, France.

BROUWENSTYN, Gerarda; Netherlands opera singer; studied in Amsterdam; joined the Amsterdam opera and subsequently became First Soprano; has appeared in London, Berlin, Stuttgart, Brussels, Copenhagen, Paris, Vienna, Bayreuth, Barcelona, Buenos Aires, etc.; repertoire includes Forza del Destino, Tosca, Aida, Otello, Un Ballo in Maschera, Tannhäuser, Die Walküre, Die Meistersinger, Le Nozze di Figaro, Jenufa, Troubadour, Cavalleria Rusticana, Don Carlos, etc.; Order of Orange-Nassau. *Address:* 3 Bachplein, Amsterdam, Netherlands.

BROUWER, Luitzen Egbertus Jan; Netherlands oil executive; b. 1 July 1910, Amsterdam; m. Maria F. Rueb 1938; ed. mining engineering, Technische Hogeschool Delft. Royal Dutch/Shell Group 1931-, assignments in Germany, Indonesia and Egypt; Mil. Service 1940-46; assignments with Royal Dutch/Shell Group in U.S.A. and Netherlands; co-ordinator for exploration and production in Netherlands 1951; Gen. Man. Dir. Iranian Oil Exploration & Producing Co. and Iranian Oil Refining Co., Teheran 1954; Man. Dir. Royal Dutch Petroleum Co. 1956, Pres. 1965-71, Dir. 1971-; Principal Dir. Shell Petroleum N.V. 1956-71, Dir. 1971-; Man. Dir. Shell Petroleum Co. Ltd. 1956-71, Dir. 1971-; Chair. Shell Canada; Dir. Shell Oil Co. 1965-71; Chair. Royal Bos Kalis Westminster Dredging Group N.V. (Papendrecht), N.V. Petroleum Maatschappij Moeara Enim (Amsterdam); Dir. Algemene Bank Nederland N.V. (Amsterdam) 1971-, Naarden Int. N.V. 1972-, Koninklijke Nedlloyd Groep N.V., Rotterdam 1972-; Knight Order of Netherlands Lion; Officer and Commdr. Order of Orange-Nassau; Officier Légion d'honneur. *Address:* N.V. Koninklijke Nederlandsche Petroleum Maatschappij, Carel van Bylandtlaan 30, The Hague, Netherlands.

BROUWERS, Gerard; Netherlands civil servant: b. 2 Aug. 1908, Flushing; m. Johanna Montagne 1937; one s. two d.; ed. Rotterdam School of Economics. Assistant Sec. to Econ. Council in Netherlands 1933-37; Head, Planning Dept., Ministry of Econ. Affairs 1937-39; Head, Price Policy Dept., Ministry of Econ. Affairs, later Head of Secretariat, Ministry of Econ. Affairs; Dir.-Gen. of Prices 1945-49; Sec.-Gen. Ministry of Econ. Affairs 1949-; Pres. of Chamber of Commerce and Industry of The Hague; mem. Board of Dirs. Royal

Netherlands Blast Furnaces and Steelworks Ltd.; numerous decorations. *Leisure interests:* literature, sailing. *Address:* 70 Bloemcamplaan, Wassenaar, Netherlands.

BROVKA, Petrus (Pyotr) Ustinovich; Soviet-Byelorussian poet; b. 25 June 1905, Putilkovichi, Byelorussia; s. of Ustin Adamovich and Yelena Stepanovna Brovka; m. Yelena Mikhailovna Brovka 1932; one s.; ed. Byelorussian State Univ. Editor Polymya 1945-48; Corresp. mem. Acad. of Sciences of Byelorussian S.S.R. 1953-66, Academician 1966-; mem. CPSU 1940-; Deputy to Supreme Soviet of U.S.S.R., mem. U.S.S.R. Parl Group Supreme Soviet; mem. Board and Sec. U.S.S.R. Union of Writers; Editor-in-Chief Byelorussian Soviet Encyclopaedia 1967-; People's Writer of Byelorussian S.S.R. 1962-: mem. Cen. Cttee. of CP of Byelorussia; State Prize (twice); Lenin Prize; Hero of Socialist Labour; Order of Lenin (four times); Hammer and Sickle Gold Medal; Badge of Honour; Red Star; Order of October Revolution; Order of Kiril and Mefodij (Bulgaria); Order of People's Friendship. *Publications:* Hero's Arrival 1935, Spring of the Homeland 1937, Byelorus 1943, Bread 1946, Road of Life 1950, The Days Go By 1962, Collected Works (4 Vols.) 1967, Among Red Mountain Ashes 1969, Welcome 1972, Both in the Day-Time and at Night 1974, Collected Works (7 vols.) 1975-78, Together with the Commissar (prose and verse) 1977, When the Sun Rises 1978. *Leisure interests:* floriculture, mushrooms. *Address:* Karl Marx Street 30-4, Minsk 30, Byelorussia, U.S.S.R. *Telephone:* 22-27-50.

BROWALDH, Tore, B.A., LL.M., DR.ENG.; Swedish banker; b. 23 Aug. 1917, Vaesteraas; s. of Ernfrid and Ingrid (née Gezelius) Browaldh; m. Gunnel Ericson 1946; three s. one d. Financial Attaché Swedish Legation, Washington, D.C. 1943; Asst. Sec. The Swedish Royal Cttee. of Post-War Econ. Planning 1944-45: Admin. Sec. the Swedish Industrial Inst. for Econ. and Social Research 1944-45; Sec. to Board of Management, Svenska Handelsbanken 1946-49, Chief Gen. Man. 1955-66, Chair. 1966-78, Vice-Chair. 1978-; Dir. Econ., Social, Cultural and Refugee Dept., Sec.-Gen. Council of Europe 1949-51; Exec. Vice-Pres. Confed. of Swedish Employers 1951-54; mem. Board Swedish Bankers Assen., Chair. 1959-61; Chair. AB Industrivärden Svenska Cellulosa AB, Swedish Esso AB, Esso Chemical AB, NK-Åhléns AB, Swedish IBM, AB Volvo, Swedish Unilever AB; Deputy Chair. Nobel Foundation; mem. Board Skandia Insurance Co., IBM World Trade Corpn.; mem. Advisory Board Unilever, Rotterdam; mem. Board Dag Hammarskjöld Foundation 1961-63, Swedish Govt. Research Advisory Board 1966-70, Swedish Govt. Industrial Policy Comm. 1968-70, Swedish Govt. Econ. Planning Comm. 1962-; Special Adviser to Int. Fed. of Insts. for Advanced Studies; mem. UN Group to Study Multinational Corpns.; mem. Swedish Acad. of Engineering Sciences, Royal Acad. of Arts and Sciences, Uppsala; St. Erik Medal, Commdr. Order of Vasa. *Publications:* Management and Society 1961. *Address:* Svenska Handelsbanken, Arsenalsgatan 11, S-103 28 Stockholm (Office); Skeppargatan 66, 114 59 Stockholm, Sweden (Home). *Telephone:* 08-61 96 43.

BROWN, Baron (Life Peer), cr. 1964, of Machrihanish; **Wilfred Banks Duncan Brown,** P.C., M.B.E.; British business executive and politician; b. 29 Nov. 1908, Greenock, Scotland; s. of Peter Brown and Emily J. Brown; m. Marjorie Hershel Skinner 1939; three s.; ed. Rossall School; with Glacier Metal Co. Ltd. 1931-65, Man. Dir. and Chair. 1939-65; Dir. Associated Engineering Ltd. 1964-65; Chair. Docks Modernization Cttee. 1965-68; Minister of State, Board of Trade 1965-70; Fellow British Inst. of Management; mem. Int. Acad. of Management; mem. Industrial Devt. Advisory Board 1975; Chair. Machine Tool Advisory Board; Pro-Chancellor Brunel Univ.; Hon. D. Tech. (Brunel Univ.), Hon. LL.D. (Univ. of Southern Illinois, U.S.A.), Hon. D.Sc. (Cranfield Inst. of Technology). *Publications:* Managers, Men and Morale (with Mrs. W. Raphael) 1947, Exploration in Management 1960, Piecework Abandoned 1962, Product Analysis Pricing (with Dr. E. Jaques) 1964, Glacier Project Papers (with Dr. E. Jacques) 1965, Organization 1971, The Earnings Conflict 1973. *Leisure interests:* golf, writing on organization. *Address:* 9 Blenheim Road, London, N.W.8, England. *Telephone:* 01-624 1446.

BROWN, Sir Allen Stanley, Kt., C.B.E., M.A., LL.M.; Australian diplomatist; b. 3 July 1911, Brunswick, Vic.; m. Hilda Wilke 1936; one s. two d.; ed. Wesley Coll., Melbourne, and Queen's Coll., Univ. of Melbourne. Director-General of Post-War Reconstruction 1948; Sec. Prime Minister's Dept. and Sec. to Cabinet 1949-58; Deputy High Commr. for Australia in U.K. 1958-65; Amb. to Japan 1965-70; Australian Commr. British Phosphate Commrs. and Christmas Island Phosphate Comm. 1970-76; Vice-Pres. European Launcher Devt. Org. 1964-65. *Address:* 3 Devorgilla Avenue, Toorak 3142; 515 Collins Street, Melbourne 3000, Australia.

BROWN, Sir David, Kt., M.I.A.E., M.I.MECH.E.; British engineer and business exec.; b. 1904; s. of Frank and Caroline Brown; m. 1st Daisie M. Firth 1926 (dissolved 1955), one s. one d.; m. 2nd Marjorie Deans 1955; ed. Rossall School, private tuition, and Huddersfield Technical Coll. David Brown and Sons (Huddersfield) Ltd. 1921, Dir. 1929-32, Managing Dir. 1932; founder David Brown Tractors Ltd. 1935; Chair. David Brown Holdings 1951-; Chair. Vosper Thorneycroft, David Brown-Vosper (Offshore) Ltd.; Dir. David Brown Gear Industries Ltd., Richardson, David Brown Ltd., Australia; underwriting mem. Lloyd's; past mem. Board of Govs. Huddersfield Royal Infirmary, Council of Huddersfield Chamber of Commerce. *Leisure interests:* hunting, yachting, tennis. *Address:* 32 Curzon Street, London, W1Y 8BH (Office); Chequers Manor, Cadmore End, nr. High Wycombe, Bucks., England (Home). *Telephone:* 01-629 7373 (Office); High Wycombe 881282 (Home).

BROWN, Edmund Gerald (Pat), LL.B.; American lawyer and politician; b. 21 April 1905; ed. Lowell High School, San Francisco, Univ. of California Extension Division, San Francisco Coll. of Law; admitted to bar 1927; asst. and successor to Milton L. Schmitt; District Attorney, San Francisco 1943; Attorney General, California 1950, re-elected on nomination of both Democratic and Republican parties 1954; Gov. of California 1959-66; Chair. Nat. Comm. on Reform of Criminal Laws 1967-; Vice-Pres. N.Y. Board of Trade; Democrat. San Francisco, Calif., U.S.A.

BROWN, Edmund G., Jr., A.B., J.D.; American lawyer and politician; b. 7 July 1938, San Francisco; s. of Edmund G. Brown (q.v.) and Bernice Brown; ed. Univ. of Calif. at Berkeley, Yale Law School. Research Attorney, Calif. Supreme Court 1964-65, Attorney, L.A. 1966-69; Sec. of State, Calif. 1971-74, Gov. 1975-. *Address:* Governor's Office, State Capital, Sacramento, California 95814, U.S.A.

BROWN, Sir (Ernest) Henry Phelps, Kt., M.B.E., M.A., F.B.A.; British economist; b. 10 Feb. 1906, Calne, Wilts.; s. of Edgar W. Brown and Ada L. Bibbing; m. Dorothy E.M. Bowlby 1932; two s. one d.; ed. Taunton School, Wadham Coll., Oxford. Fellow of New Coll., Oxford 1930-47; Rockefeller Travelling Fellow in U.S.A. 1930-31; served with Royal Artillery 1939-45; Prof. of Econs. of Labour, Univ. of London 1947-68; mem. Council on Prices, Productivity and Incomes 1959, Nat. Econ. Devt. Council 1962-66, Royal Comm. on the Distribution of Income and Wealth 1974-78. *Publications:* The Framework of the Pricing System 1936, A Course in Applied Economics 1951, The Balloon (novel) 1953, The Growth of British Industrial Relations 1959, The Economics of Labour 1962, A Century of Pay 1968, The Inequality of Pay 1977. *Leisure interests:* walking, gardening. *Address:* 16 Bradmore Road, Oxford, OX2 6QP, England. *Telephone:* Oxford 56320.

BROWN, Harold, PH.D.; American physicist and government official; b. 19 Sept. 1927, New York City; s. of A. H. Brown and Gertrude Cohen; m. Colene McDowell 1953; two d.; ed. New York City public schools and Columbia Univ. Lecturer in Physics, Columbia Univ. 1947-48, Stevens Inst. of Technology 1949-50; Univ. of Calif. Radiation Laboratory, Berkeley 1950-52; Livermore Radiation Laboratory, 1952-61, Group Leader 1953, Div. Leader 1955, Assoc. Dir. 1958, Deputy Dir. 1959, Dir. 1960-61; mem. Polaris Steering Cttee., Dept. of Defense 1956-58; Consultant to Air Force Scientific Advisory Board 1956-57; mem. Scientific Advisory Cttee. on Ballistic Missiles to Sec. of Defense 1958-61; mem. President's Science Advisory Cttee. 1961; Sec. of Air Force 1965-69; Pres. Calif. Inst. of Technology 1969-77; Sec. of Defense 1977-; mem. U.S. Del. to Strategic Arms Limitation Talks 1969; Hon. D.Eng. (Stevens Inst. of Technology), Hon. LL.D. (Long Island Univ., Gettysburg Coll., Occidental Coll., Univ. of Calif.), Hon. D.Sc. (Univ. of Rochester). *Address:* Department of Defense, The Pentagon, Washington, D.C. 20301 (Office); 415 South Hill Avenue, Pasadena, Calif. 91106, U.S.A. (Home).

BROWN, Harrison (Scott), B.S., PH.D.; American university professor and writer; b. 26 Sept. 1917, Sheridan, Wyo.; s. of late Harrison Harvey Brown and late Agatha Scott; m. Theresa Téllez 1975; one s.; ed. Univ. of Calif., Berkeley, and Johns Hopkins Univ. Instructor in Chem., Johns Hopkins Univ. 1941-42; Research Assoc., Chem., Univ. of Chicago 1942-43; Asst. Dir. Chem. Div., Clinton Labs., Oak Ridge 1943-46; Asst. Prof. of Chem., Inst. for Nuclear Studies, Univ. of Chicago 1946-48, Assoc. Prof. 1948-51; Prof. of Geochem., Calif. Inst. of Technology 1951-77, and of Science and Govt. 1967-77; Dir. Resource Systems Inst., Honolulu 1977-; Pres. Int. Council of Scientific Unions 1974-76; mem. Nat. Acad. of Sciences 1955-, Foreign Sec. 1962-74, Chair. World Food and Nutrition Study 1975-77; mem. Comm. on U.S.-Latin American Relations; Trustee, Charles F. Kettering Foundation, Resources for the Future Inc.; American Assen. for Advancement of Science

Award 1947; American Chemical Soc. Award 1952; Lasker Award 1958, Carnegie-Mellon Award 1971, N.Y. Acad. of Sciences Award 1979. *Publications:* Must Destruction Be Our Destiny? 1946, The Challenge of Man's Future 1954, The Next Hundred Years (with Bonner and Weir) 1957, The Next Ninety Years (with Bonner and Weir) 1967, The Cassiopeia Affair (with Zerwick) 1968, The Human Future Revisited 1978. *Leisure interest:* music. *Address:* Resource Systems Institute, East-West Center, 1777 East-West Road, Honolulu, Hawaii 96848 (Office); 965 Prospect Street, Apartment 611, Honolulu, Hawaii 96822, U.S.A. (Home). *Telephone:* (808) 948-8694 (Office); (808) 524-3175 (Home).

BROWN, Herbert Charles, PH.D., D.SC.; American (naturalized 1935) professor of chemistry; b. 22 May 1912, London, England; s. of Charles Brown and Pearl Stine; m. Sarah Baylen 1937; one s.; ed. Wright Junior Coll., Chicago and Univ. of Chicago. Eli Lilly Post-doctorate Fellow, Univ. of Chicago 1938-39, Instructor 1939-43; Asst. Prof. and Assoc. Prof. Wayne Univ. 1943-47; Prof. Purdue Univ. 1947-59, R. B. Wetherill Research Prof. 1959-; mem. Board of Govs., Hebrew Univ., Jerusalem; Harrison Howe Lecturer 1953; Esmark-Estech Visiting Prof., Univ. of Calif., San Diego 1979: Centenary Lecturer, Chem. Soc. London 1955, Ingold Memorial Lecturer, Chemical Soc., London 1978; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Board of Visitors, Boston Univ. 1977; Foreign Fellow, Indian Nat. Science Acad. 1977; Hon. Fellow, Chemical Soc. 1978; Nichols Medal 1959, American Chem. Soc. Award 1960, S.O.C.M.A. Medal 1960, Linus Pauling Medal 1968, Nat. Medal of Science 1969, Roger Adams Medal 1971, Chandler Medal 1973; Madison Marshall Award 1975; CCNY Scientific Achievement Award Medal 1976, Elliot Cresson Medal, Franklin Inst., Philadelphia 1978, Allied Chemical Award 1978; Hon. D.Sc. (Chicago). *Publications:* Hydroboration 1962, Boranes in Organic Chemistry 1972, Organic Syntheses via Boranes 1975, The Nonclassical Ion Problem; many articles in professional journals. *Leisure interest:* travel. *Address:* Department of Chemistry, Purdue University, Lafayette, Ind. 47907 (Office); 1840 Garden Street, West Lafayette, Ind. 47906, U.S.A. (Home). *Telephone:* (317) 494-8765 (Office); (317) 463-5651 (Home).

BROWN, Sir John Douglas Keith, Kt.; British chartered accountant and company director; b. 8 Sept. 1913, North Shields, Tynemouth; s. of Ralph D. Brown and Rhoda M. Keith; m. Margaret Eleanor Burnet 1940; two s.; ed. Glasgow Acad.; joined Lovelock & Lewes, Chartered Accountants, Calcutta 1937, Partner 1946-49; Man. Dir. Jardine Henderson Ltd., Calcutta 1949, Chair. 1957-63; Pres. Bengal Chamber of Commerce and Industry and Associated Chambers of Commerce of India 1958-60; Dir. Industrial Credit and Investment Corpn. of India Ltd. and Chair. Indian Oxygen Ltd. for six years; fmr. Chair. India Cable Co. Ltd.; mem. (Indian) Central Excise Reorganization Cttee. 1960-63, Govt. of India Company Law Advisory Cttee. and Capital Issued Advisory Cttee. 1958-63; Exec. Dir. McLeod Russel & Co. Ltd. 1963, Chair. 1972-; Chair. Samnuggur Jute Factory Co. Ltd. 1968-, Robb Caledon Shipbuilders Ltd. 1968-; mem. Board Throgmorton Trust, New Throgmorton Trust, Throgmorton Second Growth Trust. *Leisure interests:* gardening, golf, walking. *Address:* Windover, Whitmore Vale Road, Hindhead, Surrey, England.

BROWN, Sir John Gilbert Newton, Kt., C.B.E.; British publisher; b. 7 July 1916, London; s. of John Brown and Molly Purchas; m. Virginia Braddell 1946; one s. two d.; ed. Lancing Coll., Hertford Coll., Oxford. Manager O.U.P., Bombay 1937-40, London 1946-49, Sales Man. 1949-55, Deputy Publr. 1955, Publr. Gen. Div. 1956-, Deputy Sec. 1974-; served Royal Artillery 1940-41, Japanese P.O.W. 1942-45; Dir. Harlequin Enterprises Ltd., Toronto; mem. Publrs. Asscn., Pres. 1963-65; mem. Board British Library; mem. Board British Council; Prof. Fellow of Hertford Coll., Oxon.; Joint Treas. Royal Literary Fund. *Leisure interest:* gardening. *Address:* Oxford University Press, Walton Street, Oxford, OX2 6DP (Office); Milton Lodge, Great Milton, Oxon., England. (Home). *Telephone:* 0865-56767 (Office); 084-46-217 (Home).

BROWN, L. Dean; American diplomatist; b. 1920, New York, N.Y.; s. of Lewis P. Brown and Elizabeth Crossley; m. June Vereker Farquhar 1942; one s.; ed. Wesleyan Univ. and Imperial Defence Coll., London; served in U.S. Army 1942-46; joined U.S. Foreign Service 1946; postings to Congo, Canada, France, U.K., Morocco, Senegal; Amb. to Senegal and The Gambia 1967-70, to Jordan 1970-73; Deputy Under-Sec. of State for Management 1973-75; Pres. Middle East Inst., Washington, D.C. 1975-; Dir. Pres. Task Force on Vietnam 1975; Special Pres. Envoy to Cyprus 1973, to Lebanon 1976. *Address:* 1761 N Street, N.W., Washington, D.C. 20036 (Office); 3030 Cambridge Place, Washington, D.C. 20007, U.S.A. (Home).

BROWN, Mervyn, C.M.G., O.B.E., M.A. (OXON.); British diplomatist; b. 24 Sept. 1923, Durham; s. of William Brown and Edna Penman; m. Elizabeth Gittings 1949; ed. Ryhope Grammar School, Sunderland and St. John's Coll., Oxford; Third Sec., Foreign Office 1949-50; Buenos Aires 1950-53; Second Sec., New York 1953-56; First Sec., Foreign Office 1956-59; Singapore 1959-60; Vientiane 1960-63; Foreign Office 1963-67; Amb. to Madagascar 1967-70; Diplomatic Service Inspector 1970-72; Head of Communications Operations Dept., Foreign and Commonwealth Office 1973-74, Dir. of Communications 1974; High Commr. in Tanzania 1975-78, concurrently Amb. to Madagascar 1976-68; Deputy Perm Rep. to UN 1978-79; High Commr. to Nigeria 1979-. *Publication:* Madagascar Rediscovered. *Leisure interests:* music, history, tennis. *Address:* British High Commission, Eleke Crescent, Victoria Island, P.M.B. 12136, Lagos, Nigeria.

BROWN, Roger William, M.A., PH.D.; American professor of social psychology; b. 14 April 1925; s. of Frank H. Brown and Muriel L. Brown; ed. Univ. of Mich. Assistant Prof. Social Psychology, Harvard Univ. 1952-57; Assoc. Prof. of Social Psychology, Mass. Inst. of Technology, Prof. of Social Psychology 1960-62; Prof. of Social Psychology, Harvard Univ. 1962-; mem. Nat. Acad. of Sciences; Hon. Doctorate York Univ., England. *Publications:* Words and Things 1958, The Acquisition of Language 1964, Social Psychology 1965, Psycholinguistics 1970, A First Language 1973, Psychology (with R. Herristein) 1975. *Address:* 1270 William James Hall, Harvard University, Cambridge, Mass. 02138 (Office); 100 Memorial Drive, Cambridge, Mass. 02142, U.S.A. (Home).

BROWNE, Sir (Edward) Humphrey, Kt., C.B.E.; British business executive; b. 7 April 1911, Astley, Warwicks.; s. of James T. Browne and Ethel Mary (née Hills); m. Barbara Stone 1934 (died 1970); two s.; ed. Repton School, Magdalene Coll., Cambridge, and Birmingham Univ.; former Manager, Chanters Colliery; Dir. and Chief Mining Engineer Manchester Collieries Ltd. 1943-46; Production Dir. North Western Div. Coal Board 1947-48; Dir.-Gen. of Production, National Coal Board 1948-55; Chair. W. Midlands Div., Nat. Coal Board 1955-60; Dep. Chair. Nat. Coal Board 1960-67; Chair. John Thompson 1967-70; Chair. Woodhall Duckham Ltd. 1970-73; Chair. British Transport Docks Board 1971-; Pres. British Coal Utilization Research Council 1963-67; Chair. Bestobell Ltd. 1973–; Deputy Chair. Haden Carrier Ltd. 1973-; Pro-Chancellor Keele Univ. 1971-75; mem. Commonwealth Devt. Corpn. 1964-73; Founder mem. Fellowship of Engineers. *Address:* Beckbury Hall, Shifnal, Shropshire; and 31 Dorset House, Gloucester Place, London, N.W.1, England. *Telephone:* Ryton 207 and 01-935 8958.

BROWNE, Secor D.; American engineer, aviation specialist and government official; b. 22 July 1916, Chicago, Ill.; s. of Aldis Browne and Elizabeth Cunningham; m. 1st Mary Giles 1945, two s.; m. 2nd Constance Haden 1970, six step-c.; ed. Harvard Univ.; former Dir. Colonial Equities Inc., Nat. Aviation Corpn.; fmr Senior Vice-Pres. Nat. Aeronautic Assn.; fmr. Chair. Board of Govs. Flight Safety Foundation; Pres. Browne and Shaw Co., Waltham, Mass. 1955-69; Assoc. Prof. of Air Transport, Mass. Inst. of Technology 1958-69; Vice-Pres. Int. Studies Div., Bolt, Beranek and Newman Inc., Cambridge, Mass. 1968-69; Asst. Sec. for Research and Technology, U.S. Dept. of Transportation 1969; Chair. U.S. Civil Aeronautics Board 1969-73; Visiting Prof. and Consultant MIT 1973-; Consultant Secor D. Browne Assocs. Inc. 1973-. *Address:* Secor D. Browne Assocs. Inc., Suite 602, 1200 18th Street, N.W., Washington, D.C. 20036, U.S.A. *Telephone:* (202) 659-5676.

BROWNE, Stanley George, C.M.G., O.B.E., M.D., F.R.C.P., F.R.C.S., D.T.M.; British consultant leprologist; b. 8 Dec. 1907, London; s. of Arthur Browne and Edith Lillywhite; m. Ethel Marion Williamson, 1940; three s.; ed. King's Coll. and King's Coll. Hosp., London, Inst. de Médecine Tropicale, Antwerp; medical missionary, Yakusu, Belgian Congo 1936-59; Prin. Ecole agréée d'Infirmiers; Dir. Yalisombo Leprosarium, Uzuakoli, Eastern Nigeria 1959-65, Consultant Adviser in Leprosy 1966-; Hon. Consultant, Univ. Coll., London 1966-; medical consultant, The Leprosy Mission 1966-; Medical Secretary LEPRA, Editor Leprosy Review 1966-74; Pres. Royal Soc. of Tropical Medicine, and Hygiene 1977-79; Pres. Int. Assn. of Physicians for the Overseas Services 1977-(80); Sec. Int. Leprosy Assn. 1966-; Fellow, King's Coll., London; Stewart Prize; Africa Medal and several foreign orders. *Publications:* Leprosy—New Hope and Continuing Challenge 1966, Leprosy (Acta Clinica No. 11) 1968, and over 400 scientific articles on leprosy, tropical dermatology, filariasis, medical ethics, etc. *Leisure interests:* photography, reading. *Address:* 57A Wimpole Street, London, W1M 7DF (Office); 16 Bridgefield Road, Sutton, Surrey, SM1 2DG, England (Home). *Telephone:* 01-642 1656.

BROWNE, William Herman; Canadian business executive (retd.); b. 25 March 1901; ed. Queen's Univ., Kingston, Ontario. Cashier, British American Oil Co. Ltd. 1923-25; Technical Service, Goodyear Tire and Rubber Co., Canada, Ltd. 1925; Moore Corpn. Ltd., Toronto (business forms, etc.) 1925-, Sec. 1935-55, Exec. Vice-Pres. and Sec. 1955-59, Exec. Vice-Pres. 1959-62, Pres. 1962-68, Chair. 1968-75; Pres. and Dir. of subsidiary companies; mem. Canadian Council, Nat. Industrial Conf. Board. *Address:* c/o Moore Corporation Ltd., 330 University Avenue, Toronto, Ontario, Canada.

BROWNELL, Herbert, A.B., LL.B.; American lawyer; b. 20 Feb. 1904, Peru, Neb.; s. of Herbert Brownell and May Miller Brownell; brother of Samuel Miller Brownell (q.v.); m. Doris McC. Brownell 1934; two s. two d.; ed. Univ. of Nebraska and Yale Univ. School of Law; admitted to New York Bar 1928; law practice, Root, Clark, Buckner, Howland and Ballantine 1928-29; mem. New York State Assembly 1932-37; practising attorney Lord, Day & Lord 1929-53, 1957-; Attorney-Gen. of United States 1953-57; Pres. Assn. of Bar of City of New York 1962-64; Chubb Fellowship, Yale Univ. 1959–; Assoc. Fellow Silliman 1955-; Chair. Comm. on Int. Rules of Judicial Procedure 1958-59, American Bar Assn. Cttee. on Constitutional Amendment relating to Presidential Disability; Pres. American Judicature Soc. 1966-68. *Address:* Lord, Day & Lord, 25 Broadway, New York, N.Y. 10004, U.S.A. *Telephone:* (212) 344-8480.

BROWNELL, Samuel Miller, A.B., M.A., PH.D.; American educationist; b. 3 April 1900, Peru, Neb.; s. of Herbert Brownell and May Miller Brownell; brother of Herbert Brownell (q.v.); m. Esther Delzell 1927; four c.; ed. Lincoln (Nebraska) High School, Univ. of Nebraska and Yale Univ.; teacher, Demonstration High School, State Teachers Coll., Peru, Neb. 1921-23; Asst. Prof. of Educ., N.Y. State Coll. for Teachers 1926-27; Supt. of Schools, Grosse Pointe, Mich. 1927-38; Prof. of Educational Admin., Yale Univ. 1938-56; Pres. New Haven State Teachers, Coll. 1947-53; U.S. Commr. of Educ. 1953-56; Supt. of Schools, Detroit 1956-66; Prof. Urban Educational Admin., Yale Univ. and Univ. of Conn. 1966-70; Consultant Urban Educ. and Dir. Mid-Career Program, City School Admin. 1970-73; Prof. Emeritus, Yale Univ.; many hon. degrees. *Publications:* Progress in Educational Administration 1935, Urban Education 1962; Editor Issues in Urban Education 1971. *Leisure interests:* spectator sports, travel. *Address:* Apartment 1L, 70 Livingston Street, New Haven, Conn. 06511, U.S.A.

BROZ, Josip (see Tito).

BRUBECK, David Warren, B.A.; American musician; b. 6 Dec. 1920, Concord, Calif.; s. of Howard P. Brubeck and Elizabeth Ivey; m. Iola Whitlock 1942; five s. one d.; ed. Pacific and Mills Colls.; formed his own trio 1950, Dave Brubeck Quartet 1951; numerous tours and recordings; many awards from trade magazines, Metronome, Downbeat, Billboard, Melodymaker; Hon. Ph.D. (Univ. of Pacific, Fairfield Univ.); Duke Ellington Fellow, Yale Univ.; composer of 250 songs; Points of Jazz (ballet), Elementals (orchestral), The Light in the Wilderness (oratorio), The Gates of Justice (cantata), Truth Is Fallen (cantata), La Fiesta de la Posada (cantata), They all sang Yankee Doodle (orchestral), Glances (ballet), Beloved Son (oratorio), Tritonis (piece for flute and guitar). *Leisure interests:* nature study, hiking, gardening, camping. *Address:* c/o Sutton Artists, 505 Park Avenue, New York, N.Y. 10022; and 221 Millstone Road, Wilton, Conn. 06897, U.S.A.

BRUBECK, William H.; American government official; b. 19 Aug. 1920, Hannibal, Mo.; s. of Zorah Moab Brubeck and Marcia Little; m. Lois Sidenberg 1960; two d.; ed. St. John's Coll., Maryland and Harvard Univ. U.S. Army service 1942-46; Teaching Fellow, St. John's Coll. 1946-58, Harvard Univ. 1950-52; Asst. Prof. Williams Coll. 1952-56; Visiting Lecturer, Salzburg Seminary, Austria 1955, Columbia Univ. 1957; Legislative Asst. to mems. of Congress 1956; Consultant, private firm 1957-60, to Development Loan Fund 1961; Special Asst. to Under-Sec. of State 1961, Deputy Exec. Sec., Exec. Secr. 1961-62, Special Asst. to Sec. of State, Exec. Sec. of Dept. of State 1962-63; mem. Nat. Security Council, White House 1963-65; Political Counsellor, London 1965-69; Deputy Head of Mission, Jordan 1970-73; Consul-Gen. Morocco 1973-76; at Dept of State 1976-. *Address:* 9934 Lawyer's Road, Vienna, Va. 22180, U.S.A.

BRUCH, Walter; German development engineer; b. 2 March 1908, Neustadt; m. Ruth Jeskulke 1938; one s.; ed. Technische Hochschule; development engineer in Denes V. Mihaly Physical Technical Research Lab. 1933-35; at Lab. for Physical Research, Telefunken AG until 1945; now Dir. of Advanced Devt., AEG-Telefunken; Prof. of Govt. of Saarland; Chair. Fernsehtechnische Gesellschaft; Geoffrey Parr Award, Royal Television Soc.; Grosses Bundesverdienstkreuz mit Stern; Goldener Ehrenring der Deutschen Gesellschaft für Film-und Fernsehforschung; Medaille für Verdienste um die Hauptstadt Hannover; Dr. Ing. E.h. Technische Universität, Hanover. *Publications:* 27 technical articles in field of colour television; Kleine Geschichte des deutschen Fernsehens, Die Fernseh-Story; contributor Fernsehempfanger in Fernsehtechnik 1963. *Address:* AEG – Telefunken, 3 Hanover, Göttinger Chaussee 76 (Office); 3 Hanover, Menschingstrasse 13, Federal Republic of Germany (Home). *Telephone:* 0511-630961 (Office); 0511-817222 (Home).

BRUCHÉSI, Jean, B.A. LL.L., D.POL.SC.; Canadian university professor and civil servant; b. 1901; ed. Univs. of Montreal and Paris, Ecole Libre des Sciences Politiques, Paris, and Ecole des Chartes, Paris; admitted to the Bar 1924; Prof. of Gen. History, Univ. of Montreal 1927-37, Prof. of Political Science and External Politics 1929-58; Prof. of Canadian History, Marguerite-Bourgeoys Coll. Montreal 1932-; Prof. of Economic History of Canada, Ecole Supérieure de Commerce, Laval Univ. 1943-52; Under-Sec. of the Province of Quebec 1937-; Editor of Foreign Politics, Le Canada, Montreal 1928-31; Chief Editor La Revue Moderne 1930-35, L'Action Universitaire 1934-37; mem. (and founder) La Société des Ecrivains canadiens 1937-, mem. Royal Society of Canada 1940- (Pres. 1953-54); Pres. Inst. Canadien de Québec 1946-. *Publications:* Aux Marches de l'Europe 1931, L'Epopée Canadienne 1934, Histoire du Canada pour tous 1934-36, Rappels 1941, De Ville-Marie à Montréal 1942, Le Chemin des Ecoliers 1944, Evocations 1947, Canada, réalités d'hier et d'aujourd'hui 1948, Histoire du Canada 1951, Le Canada 1952, L'Université 1953, Voyages ... Mirages 1957. *Address:* 185 avenue Laurier, Quebec, Canada.

BRÜCK, Hermann Alexander, C.B.E., D.PHIL., PH.D., M.R.I.A., F.R.S.E.; British astronomer; b. 15 Aug. 1905, Berlin, Germany; s. of H. H. Brück and Margaret Brück; m. 1st Irma Waitzfelder 1936 (died 1950), 2nd Mary T. Conway 1951; two s. three d.; ed. Augusta Gymnasium, Berlin-Charlottenburg and Univs. of Bonn, Kiel, Munich and Cambridge; astronomer, Potsdam Astrophysical Observatory 1928; Lecturer, Berlin Univ. 1935; Research Assoc., Vatican Observatory 1936; Asst. Observer, Solar Physics Observatory, Cambridge 1937; John Couch Adams Astronomer, Cambridge Univ. 1943; Asst. Dir. Cambridge Observatory 1946; Dir. Dunsink Observatory and Prof. of Astronomy, Dublin for Inst. Advanced Studies 1947-57; Astronomer Royal for Scotland and Regius Prof. of Astronomy, Univ. of Edinburgh 1957-75, Dean Faculty of Science 1968-70; Vice-Pres. Royal Astronomical Soc. 1959-61; mem. Pontifical Acad. of Sciences; Corresp. mem. Akad. der Wissenschaften, Mainz; Hon. D.Sc. (Nat. Univ. of Ireland, St. Andrew's Univ.). *Publications:* Scientific papers in journals and observatory publications. *Leisure interest:* music. *Address:* Craigower, Penicuik, EH26 9LA, Midlothian, Scotland. *Telephone:* Penicuik 75918.

BRÜCK, Jean François Julien; Belgian trade union official; b. 4 July 1918, Verviers; m. Jeanne Cuypers 1947; two s. one d.; ed. state secondary school, Verviers. Permanent Sec. Young Christian Workers Regional Fed., Verviers 1937-39; Nat. Treas. Belgian Young Christian Workers 1939-47; Deputy Sec.-Gen. Office Employees' Nat. Union 1947-51, Sec.-Gen. 1951-57; Sec.-Gen. Confed. of Christian Trade Unions of the Congo 1957-62; Dir. Int. Solidarity Fund, Int. Fed. of Christian Trade Unions (IFCTU) 1962-68; Sec.-Gen. World Confed. of Labour 1968-76; Special Adviser to EEC for Devt. Cooperation 1977-. *Leisure interests:* physical education, swimming, mountaineering. *Address:* 320 rue F. Gay, 1150 Brussels, Belgium. *Telephone:* 771-22-26.

BRUCKNER, Albert, PH.D.; Swiss historian; b. 13 July 1904, Basle; s. of Albert Bruckner and Anita Haas; m. Elizabeth Mitterer; two c.; ed. Lausanne, Basle, Berlin, Florence, Münster, Cologne. Chief Asst. Int. Press Exhibition, Cologne 1926-27; Pers. Asst. Prof. Kehr (Monumenta Germaniae) Berlin 1929-30; 1st Asst. Basel Univ. Library 1931-33; Chief Asst. Archives, Basel 1933-41; Privatdozent Basle Univ. 1936-48, Extra. Prof. 1948-66, Prof. 1967-; State Archivist, Basle Town 1961-66; mem. staff Schweiz. Herald. Gesellschaft 1948-59; hon. mem. Öst. Inst. für Geschichtsforschung, Vienna; corresp. mem. Coimbra Acad.; corresp. Fellow, Medieval Acad. of America, Cambridge, Mass.; Corresp. Fellow, Monumenta Germaniae, Munich; D.Phil h.c. (Univ. Fribourg) 1972; Editor-in-Chief Neue Schweizer Biographie; Co-Editor Umbrae Codicum Occidentalium 1960-; Pres. Curatorium Helvetia Sacra; Ordre Palmes Académiques 1968. *Publications:* Scriptoria medii aevi helvetica I-XIV 1935-78, Schweizer Fahnenbuch 1941-42, Schweizer Stempelschneider und Schriftgiesser 1943, Regesta Alsatiae Merovingici et Karolini Aevi 1949, Basel und die Eidgenossen (with Bonjour) 1951, Das Notariatsformularbuch des Ulrich Manot (Schweizer Rechtsquellen) 1958, Das Herkommen der Schwyzer und Oberhasler 1961, Chartae Latinae Antiquiores I-IX (with R.

Marichal) 1954-77, Diplomata Karolinorum 1969-74, Die Bibel von Moutier-Grandval 1972, Riehen 1972, Liber Viventium Fabariensis 1972, etc. *Address:* 6292 Finkenberg 148, Austria. *Telephone:* 05285-2672 (Finkenberg).

BRUECKNER, Keith Allan, M.A., PH.D.; American professor of physics; b. 19 March 1924, Minneapolis, Minn.; s. of Leo John and Agnes Holland Brueckner; m. Elsa Dekking 1960; two s. one d.; ed. Univs. of Minnesota and California (Berkeley), Inst. for Advanced Study, Princeton. Assistant Prof. Indiana Univ. 1951-54, Assoc. Prof. 1954-55; Physicist, Brookhaven Nat. Lab. (N.Y.) 1955-56; Prof. of Physics, Univ. of Pennsylvania 1956-59; Prof. of Physics, Univ. of Calif. (San Diego) 1959-; Vice-Pres. and Dir. of Research, Inst. for Defense Analyses, Wash., D.C. 1961-62; Technical Dir. KMS Technology Center, San Diego 1968-71; Exec. Vice-Pres. and Technical Dir. KMS Fusion Inc., Ann Arbor 1971-74; Consulting Editor, Pure and Applied Physics Series, Academic Press 1964-; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences, American Physical Soc., American Nuclear Soc.; Hon. D.Sc. (Indiana Univ.) 1976; Dannie Heinemann Prize for Mathematical Physics 1963. *Publications:* Numerous articles in scientific journals. *Leisure interests:* mountain climbing, skiing, sailing, surfing. *Address:* Department of Physics, University of California at San Diego, La Jolla, Calif. 92093 (Office); 7723 Ludington Place, La Jolla, Calif. 92037, U.S.A. (Home). *Telephone:* 714-452-2892 (Office); 714-454-6834 (Home).

BRUGGER, Ernst; Swiss politician; b. 10 March 1914, Bellinzona; s. of Alois Brugger and Ida Müller; m. Eleonora Ringer 1937; five s.; ed. Univs. of Zürich, London, Paris; Secondary school teacher, Gossau 1936; Deputy to Kantonsrat 1947-59; Mayor of Gossau 1962; mem. Zürich Canton Govt. 1959-70, Dir. of Interior and Justice Depts. 1959-67, Dir. of Public Economy Dept. 1967-69; mem. Fed. Council 1970-77, Vice-Pres. Jan.-Dec. 1973, Pres. Jan.-Dec. 1974; Head of Fed. Dept. of Public Economy 1970-77; Chair. Finland-EFTA Joint Council at Ministerial level and of Consultative Cttee. 1974; Radical Democrat. *Leisure interest:* mountaineering. *Address:* Volkswirtschaftsdepartement, 3003 Berne, Switzerland.

BRUGMANS, Hendrik, D.ÈS L.; Netherlands literary critic and historian; b. 13 Dec. 1906, Amsterdam; s. of Prof. Hajo Brugmans and Marie Keizer; m. Engelina Karolina Mary Kan 1934 (divorced); two s. (one deceased) one d., one step d.; ed. Lycée Fontanes, Paris, Amsterdam Univ. and the Sorbonne; teacher at Arnhem, Terneuzen and Amersfoort; Pres. Workers' Educational Inst.; Socialist mem. of Parliament 1939-40; teacher at Amersfoort and Amsterdam 1940-42; arrested and imprisoned as hostage in St. Michielsgestel camp 1942-44; released and joined "Je Maintiendrai" resistance movement 1944; sent to report to Netherlands Govt. in Exile in London 1945; Dir. of Information and Political Sec. of Prime Minister in first post-war Govt.; mission in Siam and Indonesia 1946; has devoted himself to the European Federalist Movement since 1946; first Pres. Union Européenne des Fédéralistes 1946; Rector, Coll. of Europe, Bruges 1950-72; Gold Medal "Bene Meriti della Cultura" (Italy); Charlemagne Prize; Légion d'honneur; Officer Order of Orange-Nassau; Commander, Order of Leopold II: Grosses Verdienstkreuz des Verdienstordens der Bundersrepublik Deutschland; Dr. h.c. (Catholic Univ. of Louvain); Netherlands Labour Party (Partij van de Arbeid). *Publications:* Denis de Rougemont et le Personalisme français, La Littérature française contemporaine, Les Trésors littéraires de la France, Jean-Jacques Rousseau, Histoire de la Littérature Française Moderne, Crise et Vocation de l'Occident, Introduction à une Histoire Européenne (Vol. I Les Origines de la Civilisation Européenne 1958, Vol. II L'Europe prend le Large 1971); also the federalist programme La Cité Européenne, Panorama de la Pensée fédéraliste, La Fédéralisme contemporain (with P. Duclos), L'Idée européenne, 1920-1970, Visages de l'Europe, La pensée politique du Fédéralisme, L'Europe des Nations; together with several works on Europe and Federalism (in Dutch) and numerous articles on European problems in periodicals. *Leisure interests:* reading, mountain climbing, listening to people. *Address:* Carmersstraat 85, 8000 Bruges, Belgium. *Telephone:* (0)50-33 12 10.

BRUHN, Erik Belton Evers; Danish ballet dancer; b. 3 Oct. 1928; ed. Royal Ballet School, Copenhagen. Début with Danish ballet 1946, Leading Dancer 1949, 1958-61; guest artiste, Metropolitan Ballet, London 1947-49, American Nat. Ballet Theatre 1949, 1951, 1953, Perm. mem. 1953-58, New York City Ballet 1959, American Ballet 1960; appeared with Bolshoi Ballet 1961, Danish Ballet 1961, Royal Ballet (London) 1962, Stockholm Opera Ballet 1967-73; Resident Producer Nat. Ballet of Canada 1973-. *Address:* 57 King Street, East Toronto, Ont., Canada.

BRULLER, Jean Marcel (*see* Vercors).

BRUN, Edmond Antoine Sylvestre; French space scientist; b. 31 Dec. 1898, Saint Cannat; s. of Antoine Brun and Marie Villecrose; m. Suzanne Vincent 1923; ed. Lycée de Marseille and Univ. de Marseille; teacher, Nice 1923-21, Paris 1931-42; Hon. Prof. Faculty of Sciences, Paris 1942-72; Hon. Dir. Laboratoire d'aérothermique, Centre nat. de la recherche scientifique 1942-72; Pres. French Soc. of Astronautics 1960-62, Int. Fed. of Astronautics 1962-64; Vice-Pres. Int. Acad. of Astronautics 1963-; Pres. Soc. française des thermiciens 1964-66; Pres. Société des Ingénieurs Civils de France 1969; Pres. of COVOS (Conséquences des vols stratosphériques) 1973-; mem. Nat. Acad. of Sciences (U.S.A.); Fellow Royal Aeronautical Soc., London; Hon. Fellow American Inst. of Aeronautics and Astronautics; Fellow American Astronautical Soc.; mem. Acad. des Sciences de l'Institut de France, Acad. Serbe des Sciences et des Arts; Officier Légion d'honneur. *Leisure interest:* agriculture. *Address:* Laboratoire d'aérothermique, 4 *ter* route des Gardes, Meudon (Hauts-de-Seine) (Office); 8 place du Commerce, 75015 Paris, France (Home). *Telephone:* 532-7729.

BRUNDAGE, Howard Denton, B.A.; American publisher and advertising executive; b. 9 Nov. 1923, Newark, N.J.; s. of Edgar Rae and Salome (Denton) Brundage; m. Nancy Williams 1945; one s. three d.; ed. Dartmouth Coll. and Harvard Graduate School of Business Admin.; with Morgan, Stanley and Co., New York 1945-50; Asst. Sec. The Hanover Bank, New York 1950-52; with J.H. Whitney and Co., New York 1952-58, Partner 1958-61; Pres. New York Herald Tribune Inc. 1958; Exec. Vice-Pres. (Finance) and Dir. J. Walter Thompson Co. 1962-74; partner Dresdner and Brundage Asscns. 1974-; Dir. Faber, Smith, Barney Equity Fund, and various insurance companies; Trustee, Mountainside Hospital, Montclair, N.J. *Leisure interests:* golf, sailing, paddle tennis, bridge. *Address:* 33 N Fullerton Avenue, Montclair, N.J. 07042 (Office); 120 Lloyd Road, Montclair, N.J., U.S.A. (Home). *Telephone:* (201) 744-0650.

BRUNDAGE, Percival Flack; American consultant; b. 2 April 1892, Amsterdam, N.Y.; s. of Rev. William M. Brundage and Charlotte Hannah Flack; m. Amittai Ostrander 1918; one s. one d.; ed. Harvard and New York Univs.; Partner, Price, Waterhouse & Co. 1930-54, Consultant 1958-; Dep. Dir. Bureau of the Budget 1954-56, Dir. 1956-58; Dir. Montclair Community Chest 1950-54; Dir. Nat. Bureau of Econ. Research 1942-67, Pres. 1954, Hon. Dir. 1967; mem. Int. Assen. for Liberal Christianity and Religious Freedom, Pres. 1952-55; Dir. Fed. Union Inc. (Chair. 1951-54), American Assen. for UN; Treas. Int. Movt. for Atlantic Union; Dir., Treas. Atlantic Council of the U.S. Inc.; Treas. People to People Health Foundation; mem. Unitarian Service Comm. (Dir. 1949-54), American Unitarian Assen. (Dir. 1942-48), American Inst. of Accountants (Pres. 1948-49), Council of Foreign Relations, Foreign Policy Assen.; Hon. D.C.S. *Publication:* The Bureau of the Budget 1970. *Leisure interests:* golf, painting, travel. *Address:* 2601 Woodley Place, N.W., Washington, D.C. 20008; 969 Hillsboro Mile, Pompano Beach, Fla. 33062, U.S.A. (Winter Home).
(Died 16 July 1979).

BRUNDTLAND, Gro Harlem, M.D., M.P.H.; Norwegian physician and politician; b. 20 April 1939, Oslo; s. of Gudmund and Inga Harlem; m. Arne Olav 1960; three s. one d.; ed. Oslo and Harvard Univs.; Consultant, Ministry of Health and Social Affairs 1965-67; Medical Officer, Oslo City Health Dept. 1968-69; Deputy Dir. School Health Services, Oslo 1970-; Minister of Environment Sept. 1974-; Vice-Chair. Labour Party 1975-; *Publications:* Articles on preventive medicine, school health and growth studies. *Leisure interest:* cross-country skiing. *Address:* Ministry of the Environment, Oslo Dept., Oslo (Office); Th. Lövstadsvei 19, Oslo 2, Norway (Home). *Telephone:* 119090 (Office); 559510 (Home).

BRUNEI, Sultan of (*see* Bolkiah).

BRUNET, Jacques, L. en D.; French banker; b. 10 May 1901, Paris; ed. Paris Univ.; Secretary to Raymond Poincaré 1928; Deputy Dir., later Dir. Ministry of Finance 1935-46; Gen. Man. Banque d'Algérie et de Tunisie 1946-48; Pres. and Gen. Man. Crédit Nat. 1949-60; Gov. Banque de France 1960-69, Hon. Gov. 1969-; Grand Croix de la Légion d'honneur. *Address:* 9 rue de Valois, Paris 1er, France.

BRUNET, Jean-Pierre; French diplomatist; b. 20 Jan. 1920; m. Geneviève Didry 1970; ed. Lycée Saint-Louis, Paris and Ecole Navale, Brest; Sub- Lieut., French Navy 1940; joined Free French Naval Forces 1940, served in submarines 1940-45; Diplomatic Service 1945-; French Embassy, London 1946-47; Ministry of Foreign Affairs 1948-61; Deputy Rep. of France to EEC 1961-64; Head of Econ. Co-operation Section, Ministry of Foreign Affairs 1965-66, Dir. of Econ. and Financial Affairs 1966-75, Amb. to Japan 1975-77, to Fed. Repub. of Germany 1977-; mem. Gen. Council of Banque

de France 1966-73; Commdr. Légion d'honneur. *Leisure interests:* skiing, sailing. *Address:* French Embassy, Kapellenstrasse 1A, 5300 Bonn 2, Federal Republic of Germany; 4 rue Monsieur, 75007 Paris, France (Home). *Telephone:* 36-20-31 (Office); 02642-23395 (Home).

BRUNETON, Pierre Adolphe Gaston; French business executive; b. 28 August 1901, Saint-Cloud; s. of Jean Bruneton and Cécile Morin; m. Yvonne Sautter 1925; one s. four d.; ed. Lycée Carnot, Paris, Ecole Centrale des Arts et Manufactures, Paris; engineer Sociedad Ibérica del Nitrógeno, Madrid 1924-29; Deputy Dir. Foreign Dept., Société L'Air Liquide 1932, Sec.-Gen. 1942, Dir. 1946, Deputy Dir.-Gen. 1950, Deputy Admin. Dir.-Gen. 1954, Admin. Dir.-Gen. 1969, Admin. 1971-77; Dir. of various subsidiary companies; Hon. Pres., Admin. Société Chimique de la Grande Paroisse; Officier, Légion d'honneur; Croix de guerre. *Address:* Société L'Air Liquide, 75 Quai d'Orsay, Paris 7e (Office); 5 Square Perronet, 92 Neuilly-sur-Seine, France (Home). *Telephone:* 555-44-30 (Office); 624-30 (Home).

BRUNHART, Hans; Liechtenstein politician; b. 28 March 1945, Balzers; s. of Andreas and Rosa Brunhart; m. Bernadette Biedermann 1972; one s. one d.; ed. Lyceum Gutenberg in Balzers, and Freiburg and Basel, Switzerland; Director of Liechtenstein Nat. Library and Liechtenstein Nat. Archives, Vaduz 1972-74; Vice-Chief of Govt. 1974-78; Chief of Govt. April 1978-; Commdr.'s Cross with Star of Liechtenstein Order of Merit. *Publications:* contributions to Der Schriftsteller und sein Verhältnis zur Sprache 1971, 2 essays in Liechtenstein Politische Schriften 1972, 1973. *Leisure interests:* literature, tennis, distance running. *Address:* Government Palace, 9490 Vaduz, Liechtenstein.

BRUNNER, Guido, D.JUR., LL.L.; German diplomatist and politician; b. 27 May 1930, Madrid, Spain; m. Christa Speidel 1958; ed. Bergzabern, Munich, German School, Madrid and Univs. of Munich, Heidelberg and Madrid; Diplomatic service 1955-74; Foreign Minister's Office 1956, Office of Sec. of State for Foreign Affairs 1958-60, German Observer to UN, New York 1960-68; Scientific and Technological Relations Div., Foreign Office 1968-70, Spokesman 1970-72, Head, Planning Staff 1972-74; Amb. and Head, del. to Conf. on Security and Co-operation in Europe, Helsinki/Geneva 1972-74; mem. Comm. European Communities 1974-, Commr. for Energy, Research, Science and Education 1977-; Freie Demokratische Partei (FDP); Hon. Doctorates, Univ. of Patras (Greece), Heriot-Watt Univ. (Edinburgh); Melchett Medal (Inst. of Fuel) 1978. *Publications:* Bipolarität und Sicherheit 1965, Friedenssicherungsaktionen der Vereinten Nationen 1968, articles in periodicals. *Address:* Commission of the European Communities, 200 rue de la Loi, 1049 Brussels, Belgium. *Telephone:* 735 00 40.

BRUSTAD, Tor; Norwegian biophysicist; b. 20 Dec. 1926; s. of Johan Ludwig and Aslaug Brustad; m. Berte-Marie Brustad 1953; one s. two d.; ed. Univs. of Oslo and California; Research Fellow, Univ. of Oslo 1953-54, Norwegian Cancer Soc. 1954-57, U.S. Nat. Acad. of Sciences 1957-59; Research Assoc. Univ. of California 1959-60, Consultant in Biophysics 1960-; Chair. Dept. of Biophysics, Norsk Hydro's Inst. for Cancer Research, Oslo 1962-; Chair. Dept. of Medical Physics, The Norwegian Radium Hospital, Oslo 1968-; Prof. of Radiation Biophysics, Univ. of Trondheim 1970-; mem. Norwegian Acad. of Science and Letters 1972, Royal Norwegian Soc. of Science and Letters 1978. *Publications:* on radiation effects on various biological systems. *Address:* Norsk Hydro's Institute for Cancer Research, Montebello, Oslo (Office); Nordvegen 30, 1342 Jar, Norway (Home). *Telephone:* Oslo 24-29-05 (Home).

BRUSTEIN, Robert, M.A., PH.D.; American actor, producer and drama critic; b. 21 April 1927, New York, N.Y.; m. Norma Cates 1962; one s. one step-s; ed. Amherst Coll. Yale Univ. Drama School, Columbia Univ.; played about 70 roles in theatre groups and TV plays 1950-; Instructor, Cornell Univ. 1955-56, Vassar Coll. 1956-57; Lecturer, Columbia Univ. 1957-58, Asst. Prof. 1958-63, Assoc. Prof. 1963-65, Prof. 1965-66; Prof. of English, Yale Univ., Dean of Yale Drama School, Artistic Dir. and Founder, Yale Repertory Theatre 1966-79; Artistic Dir. and Founder American Repertory Theatre Ensemble, Loeb Drama Center, Cambridge, Mass. 1979-; Prof. of English, Harvard Univ. 1979-; Drama Critic, The New Republic 1959-60, Contributing Editor 1959-; host and writer, The Opposition Theatre (Net TV) 1966-; regular contributor to New York Times 1967-; Publisher and Founder Yale/Theatre 1967-; Advisory Editor, Theatre Quarterly 1967-; Guest Critic, The Observer, U.K. 1972-73; Trustee, Sarah Lawrence Coll. 1973-; Panel mem. Nat. Endowment for the Arts 1970-72, Nat. Endowment for the Humanities 1974-; Fulbright Fellow 1953-55, Guggenheim Fellow 1961-62, Ford Fellow 1964-65; George G. Nathan Prize in Criticism 1962, George Polk Memorial Award in Criticism 1964, Jersey City Journal Award in Theatre Criticism 1967; Litt.D. (Lawrence Univ.) 1968, (Amherst Coll.) 1972, L.H.D. (Beloit Coll.) 1975. *Publications:* Introduction to The Plays of Chekhov 1964; Editor The Plays of Strindberg 1964; author: The Theatre of Revolt 1964, Seasons of Discontent 1965, The Third Theatre 1969, Revolution as Theatre 1971, The Culture Watch 1975; articles in well-known journals and newspapers. *Address:* Loeb Drama Centre, 64 Brattle Street, Cambridge, Mass., U.S.A.

BRUTELLE, Georges; French politician; b. 20 Nov. 1922, Paris; m. Janette Brutelle-Duba 1957; one s. one d.; ed. Ecole Normale d'Instituteurs, Rouen, Ecole Supérieure de Commerce, Rouen and Univ. of Caen; Resistance Movement 1940-45; Chef du Cabinet, Ministry of Posts and Telecommunications 1945-46; Sec.-Gen. Fédération des Déportés de la Résistance 1946; mem. Policy Cttee. Parti Socialiste, Section Française de l'Internationale Ouvrière 1946, Joint Sec.-Gen. 1947-65, mem. Nat. Bureau 1967-; Army Service in Algeria 1956-57; Pres. des Colloques Socialistes 1964; Sec. Fed. of Democratic Left and Socialists 1965-67, Dir. de documentations, Soc. Générale de presse March 1966-June 1967; contributor to Paris Normandie, Man. 1969-, and L'Action de Tunis 1968-; Dir. Public Relations, Soc. d'études et constructions immobilières Oct. 1968-, Asst. Dir.-Gen. 1969, Dir.-Gen. 1971-74; Dir. Gerpresse Jan. 1974-; Dir.-Gen. Auto-Journal 1976-; Officier de la Légion d'honneur, Croix de guerre, Rosette de la Résistance. *Publication:* La Pensée Socialiste Contemporaine 1965. *Leisure interests:* aquaria, hunting. *Address:* Gerpresse, 41 boulevard Barbès, Paris 18e (Office); 8 rue Léon Vaudoyer, Paris 7e, France (Home). *Telephone:* 076-59-39.

BRUTUS, Dennis, B.A.; South African educationist and poet; b. 28 Nov. 1924, Salisbury, S. Rhodesia; s. of Francis Henry Brutus and Margaret Winifred (née Bloemetjie); m. May Jaggers 1950; four s. four d.; ed. Paterson High School, Port Elizabeth, Fort Hare and Witwatersrand Univs.; language teacher, Paterson High School, Cen. Indian High School; office boy and law student, Witwatersrand Univ.; Dir. World Campaign for Release of S. African Political Prisoners; worked for Int. Defence and Aid Fund, currently UN Rep.; Visiting Prof. Denver Univ.; Prof. of English, Northwestern Univ., Evanston, Ill.; Visiting Prof., English Dept., African and Afro-American Studies and Research Center, Univ. Tex., Austin, 1974-75; Pres. S. African Non-Racial Olympic Cttee. (SAN-ROC); Chair. Int. Campaign Against Racism in Sport (ICARIS); Chair. Steering Cttee., African Literature Assen., ARENA (Inst. for Study of Sport and Social Issues); Co-ordinator, Black Arts Celebration, Vice-Pres. Union of Writers of the African People; Dir. Troubador Press; Fellow, Int. Poetry Soc.; mem. Int. Jury Books Abroad Award 1976; Mbari Prize for Poetry in Africa, Chancellor's Prize for Bilingualism (Univ. of S. Africa); Freedom Writers' Award. *Publications:* Sirens, Knuckles, Boots 1963, Letters to Martha 1968, Poems from Algeria 1970, Thoughts Abroad (John Bruin) 1971, A Simple Lust 1973, China Poems 1975, Strains 1975, The Stubborn Hope 1976. *Leisure interests:* sport, music, chess. *Address:* English Department, Northwestern University, Evanston, Ill. 60201; 624 Clark Street, Evanston, Ill. 60201, U.S.A.; 18 Hilton Avenue, London, N.12, England. *Telephone:* 312-328-9154 (Evanston); 01-445 6109 (London).

BRUTYÓ, János; Hungarian trade union official; b. 20 Nov. 1911, Mako; former carpenter; Building Workers' Union 1933, mem. Central Board 1936, Sec.-Gen. 1955; Deputy Minister of Building Industry 1956; mem. Central Cttee. Hungarian Socialist Workers' Party 1957-66, Substitute mem. Politicial Cttee. 1962-66; mem. Nat. Council, Patriotic People's Front 1956, Presidential Council 1961; Gen. Sec. Hungarian Nat. Council of Trade Unions 1959, Pres. 1965-66; Pres. Supervisory Cttee., Hungarian Socialist Workers' Party 1966-; Red Banner, Order of Labour. *Leisure interests:* reading, angling. *Address:* c/o Hungarian Socialist Workers' Party, H-1387, Széchenyi rakpart 19, Budapest, Hungary. *Telephone:* 111-400.

BRUUN, Egon, M.D.; Danish physician; b. 1 Feb. 1909, Copenhagen; m. Birte Dela 1936; two s. one d.; ed. Københavns Universitet; specialist in allergies; has trained at Univs. of Münster and Berlin 1938, Forlanini Inst., Rome 1940, Stockholm 1943, Hôpital Broussais and Institut Pasteur, Paris 1950, London and Oxford 1952; Head Physician, Danish Red Cross Asthma Sanatorium in Norway 1946-52; Lecturer on Clinical Allergy, Univ. of Copenhagen 1950; Head Physician of Allergy Clinic, Univ. Hospital, Copenhagen 1955-; Pres. Danish Soc. of Allergology 1950-54, 1958-60; Treas. Int. Assen. of Allergology 1954-64; Fellow, American Acad. of Allergy 1952; Pres. (elect) European Acad. of Allergology 1958-62, Pres. 1962-65; Pres. Northern Soc. of Allergology 1962-65; official of other medical orgs.; Hon. mem. French, Argentine, Belgian, Finnish and Northern Allergy Soc., European Acad. of Allergology; Illum Prize

of Honour and several awards. *Leisure interests:* editing Acta Allergologica, gardening, historical literature. *Address:* 8 Gersonsvej, Copenhagen-Hellerup, Denmark. *Telephone:* HE 178.

BRUUN-RASMUSSEN, Knud; Danish novelist, poet and essayist; b. 21 July 1898, Hilleröd; s. of Bishop Fr. Bruun-Rasmussen and Emilie Spies; m. 1st Dagny Hansen 1931 (died 1962), 2nd Britta Jansson 1969; two s. one d. *Publications:* Digte 1920, Kentaur 1926, Novemberstorm 1927, En Herre viser sig 1929, Gaden og Mennesket 1930, Dette ene Liv 1932, Morgendrömme 1933, Ansigtet i Spejlet 1947, Hvordan skal jeg undervise? 1953, Grundbog for talere 1954, Bedömmelse af Mennesker 1954, Kvinde og Mand i dagens lys 1955, Talerkunst 1963, Mundtlig Fremstilling 1969, Mödeteknik 1970, Indgang til Venezia 1972. *Address:* Stella Maris, Ndr. Strandvej 2B, 3000 Helsingør, Denmark. *Telephone:* (03)21-2308.

BRYAN, Sir Arthur, Kt.; British company director; b. 4 March 1923, Stoke-on-Trent; s. of William Woodall Bryan and Isobel Alan (née Tweedie); m. Betty Ratford 1947; one s. one d.; ed. Longton High School; served with R.A.F.V.R. 1941-45; joined Wedgwood Ltd. 1947, sales rep. 1949, Asst. London Man. 1950-53, London Man. and Gen. Man. of Wedgwood Rooms 1953-59, Gen. Sales Man. 1959-60; Dir. and Pres. Josiah Wedgwood & Sons Inc. of America 1960-62; Man. Dir. Wedgwood Ltd. 1963-; Chair. 1968-; Dir. Phoenix Assurance Co. Ltd. 1976-; Pres. British Ceramic Mfrs. Fed. 1970-71; Fellow, British Inst. of Management 1968, Inst. of Marketing, Royal Soc. of Arts 1964; Companion, Inst. of Ceramics; mem. British Overseas Trade Board, Chair. North American Advisory Group 1977-; mem. Design Council 1977-; mem. Court, Univ. of Keele; K. St. J. 1972; Lord Lieut. of Staffordshire 1968-. *Leisure interests:* walking, tennis, reading. *Address:* Wedgwood Ltd., Barlaston, Stoke-on-Trent, Staffs (Office); Parkfields Cottage, Titensor, Stoke-on-Trent, Staffs, England (Home).

BRYAN, John H., Jr., B.A., M.B.A.; American business executive; b. West Point, Miss.; m.; four c.; ed. Southwestern Univ., Memphis, Univ. of Virginia School of Business; joined Bryan Packing Co. 1960, Pres., Chief Exec. Officer 1968-74; Exec. Vice-Pres., Dir. Consolidated Foods Corpn. March-Oct. 1974, Pres., Chief Operating Officer Oct. 1974-75, Chair., Chief Exec. Officer Feb. 1975-; Trustee, Southwestern Univ. *Address:* Consolidated Foods Corpn., 135 South LaSalle Street, Chicago, Ill. 60603, U.S.A.

BRYAN, Wright, B.S.; American journalist; b. 6 Aug. 1905, Atlanta, Ga.; s. of Arthur Buist Bryan and Inez Sledge Bryan; m. Ellen Hillyer Newell 1932; one s. two d.; ed. Clemson Coll. and Univ. of Missouri School of Journalism; with Atlanta Journal 1927-53, Editor 1945-53; Editor Cleveland Plain Dealer 1954-63; Vice-Pres. for Devt., Clemson Univ. 1964-70; mem. American Soc. of Newspaper Editors, Pres. 1952-53; U.S. Medal of Freedom; Hon.Litt.D. (Clemson); Hon.LL.D. (Coll. of Wooster). *Address:* 100 Wyatt Avenue, P.O. Box 470, Clemson, S.C. 29631, U.S.A. *Telephone:* (803)654-3531.

BRYANT, Sir Arthur, Kt.,C.H., C.B.E., M.A., F.R.HIST.S., F.R.S.L.; British historian; b. 18 Feb. 1899, Dersingham, Norfolk; m. 1st Sylvia (née Shakerley) 1924, 2nd Anne (d. of Bertram Brooke, H.H. Tuan Muda of Sarawak) 1941 (divorced 1976); ed. Harrow and Queen's Coll., Oxford. Principal, Cambridge School of Arts, Crafts and Technology 1923-25; Lecturer in History and English Literature Oxford Univ. Delegacy for Extra-Mural Studies 1923-35; Producer Cambridge Pageant 1924, Oxford Pageant 1926, Fenland Pageant 1931, Naval Pageant Greenwich 1933; Editor Ashridge Journal 1930-39; writer of "Our Note Book" in Illustrated London News 1936-; a Gov. of Ashridge 1936-49; Lecturer to H.M. Forces 1940-46; Pres. English Assn. 1946; Chair. Soc. of Authors Management Cttee. 1949-51; Chair. St. John and Red Cross Hospital Library 1945-; Pres. Common Market Safeguards Campaign 1969-, Friends of the Vale of Aylesbury 1969-; Vice-Pres. Royal Literary Fund; Trustee, Historic Churches Preservation Council, English Folk Music Fund; Chesney Gold Medal 1955; Hon. LL.D. (Edinburgh, St. Andrews, New Brunswick); Knight of Grace of St. John of Jerusalem. *Publications:* King Charles II 1931, Macaulay 1932, Samuel Pepys 1933, 1935, 1938, The National Character 1933, The England of Charles II 1934, King George V 1936, Letters and Speeches of Charles II 1936, The American Ideal 1936, Stanley Baldwin 1937, Postman's Horn 1937, Humanity in Politics 1938, Unfinished Victory 1940, English Saga 1840-1940 1940, The Years of Endurance 1942, Dunkirk 1943, Years of Victory 1944, Historian's Holiday 1947, The Age of Elegance 1950 (Sunday Times Gold Medal and £1,000 Award), The Turn of the Tide 1957, Triumph in the West 1959, Restoration England 1961, The Story of England: Makers of the Realm 1953, The Age of Chivalry 1963, The Fire and the Rose 1965, The Medieval Foundation 1966, Protestant Island 1967, The Lion and the Unicorn 1969, Nelson 1970, The Great Duke 1971, Jackets of Green 1972, The Thousand Years of British Monarchy 1975. *Address:* Myles Place, The Close, Salisbury.

BRYANT, Douglas Wallace, A.B., A.M.L.S.; American librarian; b. 20 June 1913, Visalia, Calif.; s. of Albert George and Ethel (Wallace) Bryant; m. Rene Kuhn 1953; one d.; ed. Univs. of Munich, Stanford, Michigan; translator, Stanford Univ. 1934-35; Asst. Curator of Printed Books, Univ. of Michigan 1936-38; Detroit Public Library 1938-42; Lt.-Commdr., U.S. Naval Reserve 1942-46; Asst. Librarian, Univ. of Calif. 1946-49; Dir. of Libraries, American Embassy, London 1949-52; Admin. Asst. Librarian, Harvard Coll. Library 1952-56; Assoc. Dir. Harvard Univ. Library and Assoc. Librarian, Harvard Coll. 1956-64; Univ. Librarian, Harvard Univ. 1964-72, Dir. of Library and Prof. of Bibliography 1972-79. *Address:* Widener Library, Harvard University, Cambridge, Mass. 02138, U.S.A.

BRYMER, Jack, O.B.E.; British clarinettist; b. 27 Jan. 1915, South Shields, Co. Durham; s. of John Brymer and Mary Dixon; m. Joan Richardson 1939; one s.; ed. Goldsmith's Coll., London Univ.; Principal Clarinet, Royal Philharmonic Orchestra 1947-63, BBC Symphony Orchestra 1963-72, London Symphony Orchestra 1972–; mem. Wigmore Ensemble, Prometheus Ensemble, London Baroque Ensemble, Delme Ensemble, Robles Ensemble and Dir./Founder London Wind Soloists; Prof. Royal Acad. of Music 1950-56; Hon. RAM; world-wide soloist recitals and numerous recordings; lecturer on musical topics on radio and television; two demonstration films on history, development and use of the clarinet as a solo and orchestral instrument; Prof. of clarinet, Royal Mil. School of Music, Kneller Hall 1970-73; Hon. M.A. (Univ. of Newcastle) 1973. *Publication:* The Clarinet 1976. *Leisure interests:* golf, tennis, swimming, gardening, carpentry, photography. *Address:* Underwood, Ballards Farm Road, South Croydon, Surrey, England. *Telephone:* 01-657 1698.

BRYNIELSSON, Harry Anders Bertil; Swedish executive; b. 20 March 1914, Stockholm; s. of Georg and Gurli Brynielsson; m. Wera Wahrenby 1940; two s. one d.; ed. Royal Inst. of Technology, Stockholm; with Kema-Bolagen, Stockholm 1936-43; Man. Dir. LKB-Produkter Fabriks Aktiebolag, Stockholm 1943-51; Man. Dir. Aktiebolaget Atomenergi (Swedish Atomic Energy Co.) 1951-69; Pres. European Atomic Energy Soc. 1958-61; Chair. Swedish Corrosion Inst. 1972, Swedish Centre of Technical Terminology and Swedish Plant Inspection 1975-; mem. Swedish Acad. of Engineering Sciences. *Address:* c/o Aktiebolaget Atomenergi, P.O. Box 43041, S-100 72 Stockholm 43 (Office); Ytterbyudd, S-185 00 Vaxholm, Sweden (Home). *Telephone:* Stockholm 18-80-20 (Office); 0764-373-65 (Home).

BRYNNER, Yul; film actor; b. 11 July 1920, Sakhalin, Japan (now U.S.S.R.); m. 1st Virginia Gilmore 1944, 2nd Jacqueline Brynner 1972; one s. three d.; ed. Sorbonne; connected with entertainment field from an early age; first appeared in circus and on stage in Paris; went to U.S.A. 1940, appearing on stage in same year; radio announcer and commentator in French for Office of War Information 1942-46; first appeared on Broadway 1946; nightclub entertainer in Paris 1947-48; TV actor and dir. for NBC 1948, and subsequently for CBS; appeared on stage in The King and I 1951-54, leading role 1952-54, 1978-; also play Home Sweet Homer 1975 (N.Y.); acted in films 1955-; *Film appearances include:* The Ten Commandments 1955, The King and I, Anastasia 1956, The Brothers Karamazov 1958, Journey, The Sound and the Fury, Solomon and Sheba 1959, Once More with Feeling, The Magnificent Seven 1960, Cast a Giant Shadow 1966, Triple Cross, The Long Duel 1967, The Double Man 1968, The Madwoman of Chaillot 1969, File of the Golden Goose 1969, The Magic Christian 1970, The Battle of Neretua 1971, The Light at the Edge of the World 1971, Romance of a Horse Thief 1971, Catblow 1972, Fuzz 1972, The Happening 1972, TV Series Anna and the King 1972, The Serpent 1973, Westworld 1973, The Ultimate Warrior 1975, etc.; Donaldson Award 1946; Antoinette Perry Award 1951, Nat. Board Review Motion Pictures Award 1956 for The King and I; Acad. Award in Motion Pictures 1957. *Publication:* Bring Forth the Children 1960. *Address:* Office c/o Diane Hoppenot, B.P. 275-16, 75766 Paris Cédex 16, France; 151 East 74th Street, New York, N.Y. 10021, U.S.A.

BRZEZINSKI, Zbigniew K., PH.D.; American (naturalized 1949) professor of government and politician; b. 28 March 1928, Warsaw, Poland; m. Emilie Ann Benes 1955; three c.; ed. McGill and Harvard Univs.; settled in N. America 1938; Instructor in Govt. and Research Fellow, Russian Research Center, Harvard Univ. 1953-56; Asst. Prof. of Govt., Research Assoc. of Russian Research Center and of

Center for Int. Affairs, Harvard Univ. 1956-60; Assoc. Prof. of Public Law and Govt., Columbia Univ. 1960-62, Prof. 1962- (on leave 1966-68, 1977-) and Dir. Research Inst. on Communist Affairs 1961- (on leave 1966-68, 1977-); mem. Policy Planning Council, Dept. of State 1966-68; mem. Hon. Steering Cttee., Young Citizens for Johnson 1964; Dir. Foreign Policy Task Force for Vice-Pres. Humphrey 1968; Special White House Asst. for Nat. Security 1977–; Fellow, American Acad. of Arts and Sciences 1969-; mem. Council on Wage and Price Stability 1977-, Energy Resources Council 1977–; Nat. Security Council 1977-, Council on Foreign Relations, New York, Inst. for Strategic Studies (London), Nat. Assn. for the Advancement of Colored People, Advisory Board of Int. Inst. for Peace and Conflict Research (Berlin), Research Inst. on Int. Change; Consultant to Dept. of State, to RAND Corpn. 1962-; Board of Trustees, Freedom House, Inst. of Defense Analysis (Washington, D.C.); mem. Board of Dirs. Amnesty International; Foreign Affairs columnist Newsweek; Editorial Board Foreign Policy; Guggenheim Fellowship 1960, Ford Fellowship 1970. *Publications include:* Political Controls in the Soviet Army 1954, The Permanent Purge—Politics in Soviet Totalitarianism 1956, Totalitarian Dictatorship and Autocracy (co-author) 1957, The Soviet Bloc—Unity and Conflict 1960, Ideology and Power in Soviet Politics 1962, Africa and the Communist World (Editor and contrib.) 1963, Political Power: U.S.A./U.S.S.R. (co-author) 1964, Alternative to Partition: For a Broader Conception of America's Role in Europe 1965, Dilemmas of Change in Soviet Politics (Editor and contrib.) 1969, Between Two Ages: America's Role in the Technetronic Era 1970, The Fragile Blossom: Crisis and Change in Japan 1972. *Address:* The White House, 1600 Pennsylvania Avenue, Washington, D.C. 20500 (Office); 40 Brayton Street, Englewood, New Jersey, U.S.A. (Home).

BUBENNOV, Mikhail Semenovich; Soviet writer; b. 21 Nov. 1909, Polomoshnovo, Altai Territory; member CPSU 1951-; State Prize 1947, Order of Red Banner of Labour 1959, Order of Red Star. *Publications:* Novels: The Thundering Year 1932, Immortality 1941, The Silver Birch Tree 1947, Orlinaya Steppe 1959; Stories: At Flood Time 1940, The Rapids 1971, Selected Works (2 vols.) 1973. *Address:* U.S.S.R. Union of Writers, 52 Ulitsa Vorovskogo, Moscow, U.S.S.R.

BUCALOSSI, Pietro; Italian cancer specialist and politician; b. 9 Aug. 1905, San Miniato; s. of Alfredo and Cosetti Maria Bucalossi; m. Eugenia Goisis 1938; ed. Università degli Studi, Pisa; Director-Gen. Nat. Cancer Inst., Milan; fmr. Pres. Fatebenefratelli Hospital, Milan; Mayor of Milan 1964-; mem. Exec. Cttee. of the Int. Union Against Cancer (UICC); Pres. Italian League Against Cancer, Italian Cancer Soc., fmr. Pres. Work and Social Care Comm.; Dir. Tumori; mem. numerous medical socs.; Hon. Deputy, Chamber of Deputies; fmr. Pres. Justice Comm.; Minister without Portfolio in charge of Scientific Research 1973-March 1974; Minister of Public Works Nov. 1974-76; Vice-Pres. Chamber of Deputies 1976-; Republican. *Publications:* numerous articles on cancer and malignant tumours. *Address:* Via Bigli 15, 20121 Milan, Italy. *Telephone:* 700-510.

BUCCIARELLI DUCCI, Brunetto; Italian politician; b. 18 June 1914; ed. Collegio Nazionale, Arezzo and Univ. degli Studi, Florence; Judge, Tribunale di Arezzo; joined Christian Democrat Party immediately after the war; Deputy; Vice-Pres. Chamber of Deputies 1958-63, Pres. 1963-68. *Publications:* Partiti Gruppi e Parlamento, Introduzione allo Studio del Diritto Parlamentare, Cento Anni di Vita del Parlamento Italiano, Alcide de Gasperi e il suo Magistere Politico, La crisi dei partiti e la responsabilità dei cattolici, Siena e Dante, La figura e l'opera di Pio XI, Legislazione e Sport, Il Voto alle Donne, Il poeta Giosué Borsi a 50 anni dalla morte. *Address:* Camera dei Deputati, Rome, Italy.

BUCHANAN, Sir Colin Douglas, Kt., C.B.E. ; British town planner; b. 22 Aug. 1907, Simla, India; s. of William Ernest and Laura Kate Buchanan; m. Elsie Alice Mitchell 1933; two s. one d.; ed. Berkhamsted School and Imperial Coll. of Science and Technology, London; with Public Works Dept., Sudan 1930-32; Regional Planning Studies with F. Longstreth-Thompson, London 1932-35; at Ministry of Transport 1935-39; served with Royal Engineers 1939-46; at Ministry of Town and Country Planning (later Ministry of Housing and Local Govt.) 1946-61; Urban Planning Adviser, Ministry of Transport 1961-63; Prof. of Transport, Imperial Coll., London 1963-72; Dir. School of Advanced Urban Studies, Univ. of Bristol 1973-75; Visiting Prof., Imperial Coll. 1975-78; Consultant to various public authorities; mem. Comm. on Third London Airport 1968-70, Royal Fine Art Comm. 1972-73; Gold Medal, Town Planning Inst. 1968; Int. Road Fed. "Man of the Year" 1971. *Publications:* Mixed Blessing, the Motor in Britain 1958, Traffic in Towns 1963, Bath: A Study in Conservation 1969 and numerous papers on town planning and related subjects. *Leisure interests:* woodworking, photography, caravanning. *Address:* Tunnel House, Box, Minchinhampton, Glos., England. *Telephone:* Nailsworth 2951.

BUCHANAN, J. Judd, M.B.A.; Canadian politician; b. 25 July 1929, Edmonton; s. of Nelles V. Buchanan and Helen de Silva; m. Kay Eleena Balfour 1952; three c.; ed. Univs. of Alberta and W. Ontario; Member Board of Educ., London, Ont. 1966-68; mem. Parl. for London West, Ont. 1968-; Parl. Sec. to Minister of Indian Affairs and Northern Devt. 1970-72, to Minister of Finance 1972-73; Minister of Indian Affairs and Northern Devt. 1974-76, of Public Works 1976-78; Minister of State for Science and Tech. 1977-78; Pres. Treasury Board 1978-79. Liberal. *Address:* House of Commons, Ottawa, Ont., Canada.

BUCHANAN, John Machlin, D.SC., PH.D.; American professor of biochemistry; b. 29 Sept. 1917, Winamac Ind.; s. of Harry J. and Eunice B. (Miller) Buchanan; m. Elsa Nilsby 1948; two s. two d.; ed. De Pauw Univ., Univ. of Michigan and Harvard Univ.; Instructor, Dept. of Physiological Chem., School of Medicine, Univ. of Pa. 1943-46, Asst. Prof. 1946-49, Assoc. Prof. 1949-50, Prof. 1950-53; Nat. Research Council Fellow in Medicine, Nobel Inst., Stockholm 1946-48; Prof., Head, Div. of Biochem., Dept.of Biology, Mass. Inst. of Technology 1953-67, Wilson Prof. of Biochem. 1967-; mem. Medical Fellowship Board 1954-; Fellow, Guggenheim Memorial Foundation; mem. Nat. Acad. of Sciences, American Soc. of Biological Chemists, American Chem. Soc., Int. Union of Biochemists, Amer. Acad. of Arts and Sciences; Eli Lilly Award in Biological Chem., A.C.S. 1951. *Address:* Room 16-619, Department of Biology, Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); 56 Meriam St., Lexington, Mass. 02173, U.S.A. (Home).

BUCHANAN, John MacLennan, B.Sc., Q.C., M.L.A.; Canadian politician, barrister and solicitor; b. 22 April 1931, Sydney, Nova Scotia; s. of Murdoch William and Flora Isabel (née Campbell) Buchanan; m. Mavis Olive Charlotte Forsyth 1954; two s. three d.; ed. Mount Allison and Dalhousie Univs.; elected to Nova Scotia Legislature 1967, re-elected 1970, 1974 and 1978; Minister of Finance, Public Works and Fisheries 1969; elected Leader, Progressive Conservative Party and Leader of the Opposition 1971; elected Premier of N.S. 1978; Centennial Medal. *Leisure interests:* skating, water skiing, swimming, reading, history, politics. *Address:* Province House, P.O. Box 726, Halifax, Nova Scotia, B3J 2T3, Canada. *Telephone:* (902) 424-4119.

BUCHEN, Philip William, A.B., J.D.; American lawyer and government official; b. 27 Feb. 1916, Sheboygan, Wis.; s. of Gustav W. and Elenor Buchen; m. Beatrice Loomis Gold 1947; one s. one d.; ed. Univ. of Mich.; with Ford and Buchen 1941-42; Butterfield, Keeney & Amberg 1943-47; Amberg, Law & Buchen 1948-61; Vice-Pres. Business Affairs, Grand Valley State Coll. 1961-67; partner, Law, Buchen, Weathers, Richardson & Dutcher 1967-74, Dewey, Ballantine, Bushby, Palmer & Wood 1977-; Counsel to Pres. of U.S.A. 1974-77; Hon. LL.D. (Grand Valley State Coll.). *Leisure interests:* swimming, reading, the arts. *Address:* 429 Edgemere Drive South East, Grand Rapids, Mich. 49506, U.S.A. (Home).

BÜCHI, George H., D.SC.; American professor of chemistry; b. 1 Aug. 1921, Baden, Switzerland; s. of George and Martha Büchi; m. Anne Westfall Barkman 1955; ed. Fed. Inst. of Technology, Zürich; Firestone Fellow, Univ. of Chicago 1948-49; Instructor, Univ. of Chicago 1949-51; Asst. Prof. of Chem., Mass. Inst. of Technology 1951-56, Assoc. Prof. 1956-58, Prof. 1958-68, Dreyfus Prof. 1968-; mem. Nat. Acad. of Sciences 1965-; Swiss Chemical Soc. (Ruzicka Award 1957), American Chemical Soc.; Fritzsche Award for outstanding contributions to field of structure determination of terpenes, American Chemical Soc. 1958; Award for creative work in synthetic organic chem. 1973. *Publications:* Photochemical Reactions XIII: A Total Synthesis of Thujopsene 1964, Terpenes XIX: Synthesis of Patchouli Alcohol 1964, The Structures of Aflatoxins B_1 and G_1 1965, The Total Synthesis of Iboga Alkaloids 1966, A Structurally Selective Method for the Preparation of Certain Diels-Alder Adducts 1967, Biosynthesis of Aflatoxins 1968. *Leisure interests:* hunting, hiking and skiing. *Address:* Massachusetts Institute of Technology, 77 Massachusetts Avenue, Boston, Mass. 02139, U.S.A. (Office). *Telephone:* (617)253-1838 (Office).

BUCHTHAL, Fritz, M.D.; Danish neurophysiologist; b. 19 Aug. 1907, Witten, Germany; s. of Sally Buchthal and Hedvig Weyl; m. Margaret A. Lennox, M.D.; ed. Albert-Ludwig-Universität, Freiburg im Breisgau, Germany, Stanford Univ., California, U.S.A., and Humboldt-Universität zu Berlin; Assistant in Physiology, Univ. of Berlin 1930-32; Inst. for Theory of Gymnastics, Copenhagen Univ. 1933-43; Physiological Inst., Lund Univ. 1943-45; Dir. Inst. of Neurophysiology, Copenhagen Univ. 1946-77, Prof. of Neurophysi-

ology 1955-77; Chief, Dept. of Neurophysiology, Univ. Hospital 1945-77; Consultant, Nat. Inst. of Health, U.S.A. 1959; Visiting Prof. Univ. of California 1962, Academia Sinica 1964, N.Y. Univ. 1965; mem. Royal Danish Acad. Sciences 1946, Danish Acad. of Technical Sciences, Royal Swedish Acad. of Sciences 1968, Royal Soc. of Sciences (Sweden) 1972; Hon. mem. French Neurological Soc., British Assn. of Neurologists, Polish Neurological Soc., German EEG Soc., English EEG Soc., Italian EEG and Clinical Neurophysiological Soc. and American Soc. for Electrodiagnosis and Electromyography; Corresp. mem. German Physiological and Neurological Socs., American Neurological Assn., Italian Neurological Soc.; Hon. M.D. (Münster, Zürich); numerous awards. *Publications:* Mechanical Properties of Muscle Fibre 1942, Rheology of Muscle 1951, An Introduction to Electromyography 1957, Electrophysiological Aspects of Myopathy 1963, Evoked action potential and conduction velocity in human sensory nerve 1966, Electrical and Mechanical Responses of Normal and Myasthenic Muscle 1968. *Leisure interest:* gardening. *Address:* Research Department, University Hospital, Section 4112, Blegdamsveg 9, 2100 Copenhagen, Denmark. *Telephone:* 01-386633 (Ext. 4112).

BUCHWALD, Art; American journalist, author and playwright; b. 20 Oct. 1925, New York; s. of Helen Kleinberger and Joseph Buchwald; m. Ann McGarry 1952; one s. two d.; ed. Univ of Southern Calif., Los Angeles; columnist, Herald Tribune, Paris 1948-62; syndicated columnist to 500 newspapers throughout the world 1952-; Prix de la Bonne Humeur. *Publications:* Paris After Dark, Art Buchwald's Paris, I Chose Caviar, More Caviar, A Gift from the Boys, Don't Forget to Write, How much is that in Dollars? 1961, Is It Safe to Drink the Water? 1962, I Chose Capitol Punishment 1963, And Then I told the President 1965, Son of the Great Society 1967, Have I ever Lied to you? 1968, Oh, to be a Swinger 1970, Getting High in Government Circles 1971, I Never Danced at the White House 1973, I am not ■ Crook 1974, Washington is Leaking 1976, Down the Seine and Up the Potomac 1977, The Buchwald Stops Here 1978. *Address:* 1750 Penn Avenue, N.W., Washington, D.C., U.S.A. *Telephone:* Washington 393-6680.

BUCKLE, (Christopher) Richard (Sandford); British writer, critic and exhibition designer; b. 6 Aug. 1916; ed. Marlborough Coll. and Balliol Coll., Oxford; founded Ballet 1939; army service 1940-46; Ballet Critic, The Observer 1948-55, Sunday Times 1959-75; organizer The Diaghilev Exhibition, Edinburgh Festival and London 1954, The Observer Film Exhibition, London 1956, Telford Bicentenary Exhibition 1957, Epstein Memorial Exhibition, Edinburgh 1961, The Shakespeare Exhibition (for Quatercentenary), Stratford-on-Avon and Edinburgh 1964; designer, Exhibition Rooms, Harewood House, Yorks. and area in "Man in the Community" Pavilion, Expo 1967 exhbn. Montreal, Gala of Ballet, London 1971; Plays: Gossip Column, Q Theatre 1953 and Family Tree, Worthing 1956. *Publications:* John Innocent at Oxford (novel) 1939, The Adventures of ■ Ballet Critic 1953, In Search of Diaghilev 1955, Modern Ballet Design 1955, The Prettiest Girl in England 1958, Harewood (a guide book) 1959, Dancing for Diaghilev (the Memoirs of Lydia Sokolova) 1960, introductions to Epstein Drawings 1962, and Epstein: An Autobiography 1963, Jacob Epstein: Sculptor 1963, Monsters at Midnight (limited edn.) 1966, The Message, ■ Gothick Tale of the A1 (limited edn.) 1969, Nijinsky 1971. *Address:* 34 Henrietta Street, Covent Garden, London, W.C.2, England. *Telephone:* 01-240 2111.

BUCKLEY, James Lane, LL.B.; American politician; b. 9 March 1923, New York, N.Y.; m. Anne F. Cooley 1953; six c.; ed. Yale Univ.; served U.S. Navy 1943-46; Senator from New York 1971-77; Republican. *Address:* 2801 New Mexico Avenue, Washington, D.C. 20007, U.S.A.

BUCKLEY, William Frank, Jr.; American editor and author; b. 24 Nov. 1925, New York; s. of William Frank and Aloise (Steiner) Buckley; m. Patricia Taylor 1950; one s.; ed. Univ. of Mexico and Yale Univ.; formerly on staff American Mercury; Editor-in-Chief National Review 1955-; syndicated columnist 1962-; host of weekly television series Firing Line 1966-; lecturer New School for Social Research 1967; mem. U.S.I.A. Advisory Comm. 1969-72; fmr. Chair. Starr Broadcasting Group; mem. U.S. del. to UN; contributor to Harper's, Esquire, Saturday Review, Atlantic, etc. *Publications:* God and Man at Yale 1951, Up from Liberalism 1959, Rumbles Left and Right 1963, The Unmaking of a Mayor 1966, The Jeweler's Eye 1968, The Governor Listeth 1970, Cruising Speed 1971, Inveighing We Will Go 1972, Four Reforms 1973, United Nations Journey 1974, Saving the Queen 1976, Airborne, A Sentimental Journey 1976, Stained Glass 1978, A Hymnal 1978; co-author McCarthy and His Enemies 1954; Editor The Committee and Its Critics 1962, Odyssey of ■ Friend 1970, Did You Ever See ■ Dream Walking 1970. *Leisure interests:* skiing, sailing, music. *Address:* National Review, 150 East 35th Street, New York, N.Y. 10016, U.S.A. *Telephone:* OR 9-7330.

BUCKWITZ, Harry; German theatre director and producer; b. 31 March 1904, Munich, Bavaria; s. of Alfred and Helene Buckwitz; m. Nuri Buckwitz (née Wagner) 1959; two d.; ed. Realgymnasium and Univ. of Munich; Hotel Man., Tanganyika 1937-40; Dir. Münchner Kammerspiele 1945-51; Gen. Man. Frankfurt/Main Municipal Theatres 1951-58; Dir. Schauspielhaus, Zürich 1970-; producer of opera, plays, TV; first production several plays of Brecht, Thornton Wilder, Arthur Miller, Dürrenmatt, Max Frisch. *Leisure interest:* mountaineering. *Address:* Viktoriastrasse 13, 8057 Zürich, Switzerland. *Telephone:* 8057 (Zürich)

BUDDINGTON, Arthur F., PH.B., M.S., PH.D.; American geologist; b. 29 Nov. 1890, Wilmington, Del.; s. of Osmer G. Buddington and Mary S. Wheeler; m. Jene E. Muntz 1924; one d.; ed. Brown and Princeton Univs.; Instructor Brown Univ. 1917; Petrologist Geophysical Laboratory Carnegie Inst. Washington 1919-20; Asst. Prof. of Geology Princeton Univ. 1920-26, Assoc. Prof. 1926-32 and fmr. Prof., Chair. Geology Dept. 1936-50; Geologist U.S. Geological Survey, Summers 1921-25, 1930, 1943-61; Geologist N.Y. State Museum, Summers 1916-17, 1926-29, 1931-41; mem. Emer. Nat. Acad. of Sciences; mem., American Philosophical Soc., American Acad. of Arts and Sciences; Hon. mem. Mineralogical Soc., U.K.; Penrose Medal (American Geological Soc.) 1954; Roebling Medal (American Mineralogical Soc.) 1956; André Dumont Medal (Geological Soc., Belgium) 1960; Hon. D.Sc. (Brown Univ.), Hon. LL.D. (Franklin and Marshall Coll.), Hon. Dr. of Applied Science (Liège Univ.). *Publications:* Geology of S.E. Alaska 1929, Adirondack Igneous Rocks and their Metamorphism 1939, Iron—Titanium Oxide Minerals 1964, Origin of Anorthosite 1969. *Address:* 65 Pond Street, Cohasset, Mass. 02025, U.S.A.

BUDOWSKI, Gerardo, PH.D.; Venezuelan agronomist and silviculturalist; b. 10 June 1925, Berlin, Germany; s. of Dr. Issar Budowski and Marguerite Wolffgang; m. Thelma T. Palma 1958; two d.; ed. Univ. Central de Venezuela, Inter-American Inst. of Agricultural Sciences, Turrialba, Costa Rica and Yale Univ. School of Forestry; director of Research, Ministry of Agriculture Forestry Service 1947-49, Head 1949-52; Forester, Inter-American Inst. of Agricultural Sciences, Havana 1953-55, Turrialba 1956-58, Head, Forestry Dept. 1958-67; Visiting Prof. of Geography and Forestry, Univ. of Calif., Berkeley 1967; Programme Specialist for Ecology and Conservation, UNESCO, Paris 1967-70; Head, Forest Sciences Dept., Tropical Agricultural Research and Training Center, Costa Rica 1976-; Dir.-Gen. Int. Union for Conservation of Nature and Natural Resources. Order of the Golden Ark (Netherlands) 1976, Order Henry Pittier, 1st Class (Venezuela) 1979. *Publications:* over 120 publications. *Leisure interest:* chess (several times champion of Venezuela and mem. of Olympic team). *Address:* Tropical Agricultural Research and Training Center, Turrial, Costa Rica. *Telephone:* 56-01-22 and 56-01-69 (Office); 56-02-54 (Home).

BUECHE, Dr. Arthur Maynard, B.S., PH.D.; American chemist; b. 14 Nov. 1920, Flushing, Mich.; s. of late Bernard Paul and Margaret Rekert Bueche; one s. three d.; ed. Univ. of Michigan, Ohio State and Cornell Univs; research Assoc., Cornell Univ. 1947-49; with General Electric 1950-; Gen. Electric Research Laboratory, Physical Chemist 1950-53, Man. Polymer and Interface Studies 1953-61, Man. Chem. Research 1961-65, Vice-Pres. Research and Devt. and Dir. Research and Devt. Centre Schenectady, N.Y. 1965–; mem. Nat. Acad. of Sciences 1971-, Nat. Acad. of Eng. 1974–; Hon. Sc.D. (St. Lawrence Univ., Union Coll., D. Clarkson Coll. of Tech., Univ. of Akron), Hon. LL.D. (Knox Coll.), Eng. D. (Rensselaer Polytechnic Inst.). *Publications:* more than thirty scientific papers; eleven patents. *Leisure interests:* golf, skiing, photography. *Address:* P.O. Box 8, Schenectady, N.Y. 12301 (Office); 13-6 Woodlake Road, Albany, N.Y. 12203, U.S.A. *Telephone:* (518) 346-8771 (Ext. 6331).

BUENO Y MONREAL, H. E. Cardinal José Maria, D.THEOL., D.PHIL., D.IUR.UTR.; Spanish ecclesiastic; b. 11 Sept. 1904; ed. Madrid Seminary, Gregorian Univ., Rome, and Madrid Univ.; ordained priest 1927; fmr. Prof. of Dogmatic Theology, Canon Law and Moral Theology, Madrid Seminary; fmr. Prof. Inst. Cen. de Cultura Religiosa Superior; Fiscal, Archbishopric of Madrid 1929-45, Doctoral Canon 1945; Bishop of Jaca 1945-50, of Vitoria 1950-54; Titular Archbishop of Antioch in Pisidia and Coadjutor Archbishop of Seville 1954-57; Archbishop of Seville 1957-; created Cardinal by Pope John XXIII 1958; mem. Sacred Congregations of Religious, of Rites and of Ceremonies; Gran Oficial, Orden del Sol (Peru), Cruz Meritísima de San Raimundo de Peñafort, Gran Cruz, Orden de Isabel la Católica; Dr. h.c., (Zaragoza). *Publications:* Las Rela-

ciones entre la Iglesia y el Estado en los modernos Concordatos 1931, Principios fundamentales de Derecho público eclesiástico 1945. *Address:* Palacio Arzobispal, Seville, Spain. *Telephone:* 22-56-57.

BUERGER, Martin Julian, S.M., PH.D.; American mineralogist and crystallographer; b. 8 April 1903, Detroit, Mich.; s. of Martin J. G. Buerger and Julie E. Buerger; m. Lila Mae MacAskill 1938; five d.; ed. Mass. Inst. of Technology; research Asst., Dept of Geology, Mass. Inst. of Technology 1925, Instructor 1927, Asst. Prof. of Mineralogy 1929, Assoc. Prof. 1935, Prof. of Mineralogy and Crystallography 1944-56, Faculty Chair. 1954-56, Dir. School for Advanced Study 1956-63, Inst. Prof. 1956-68, Inst. Prof. Emer. 1968-; Univ. Prof. Univ. of Conn. 1968-73, Prof. Emer. 1973-; Hon. Research Assoc., Harvard Univ. 1973-(81); Visiting Prof. Univs. Rio de Janeiro 1948, Santiago 1962, Minneapolis 1969, Va. Polytechnic Inst. 1974; Pres. American Soc. of X-ray and Electron Diffraction 1948, Crystallographic Soc. of America 1939-46; Pres. Mineralogical Soc. of America 1947; Co-Editor International Tables for X-ray Crystallography 1946-; Councillor American Acad. of Arts and Sciences 1950-54; Vice-Pres. Geological Soc. of America 1948; mem. Exec. Cttee. Int. Union of Crystallography 1946; Ed. Wiley Monographs on Crystallography 1965-; mem. Nat. Acad. of Sciences; foreign mem. Brazilian Acad. of Sciences and Turin Acad. of Sciences; Hon. mem. Real Sociedad Española de Historia Natural 1964; Corresp. mem. Bavarian Acad. of Sciences 1960-, Austrian Acad. of Sciences 1962-; Hon. mem. German Mineralogical Soc. 1957; Day Medallist, Geological Soc. of America 1951; Roebling Medallist, Mineralogical Soc. of America 1958; Isidor Fankuchen Memorial Award, Amer. Crystallographic Assn. 1971; Dr. h.c. (Berne) 1958; Co-Editor Zeitschrift für Kristallographie 1955-. *Publications:* Optical Crystallography 1935, X-ray Crystallography 1942, Elementary Crystallography 1956, The Powder Method in X-ray Crystallography (with L. V. Azaroff) 1958, Vector Space 1959, Crystal-Structure Analysis 1960, The Precession Method in X-ray Crystallography 1964, Contemporary Crystallography 1970, Introduction to Crystal Geometry 1971, The LAUE Method (with J. L. and M. C. Amoros) 1975, about 200 scientific journal articles. *Address:* Department of Earth and Planetary Sciences, Room 24-412, Massachusetts Institute of Technology, Cambridge, Mass. 02139; and Weston Road, Lincoln, Mass., U.S.A.

BUERO VALLEJO, Antonio; Spanish playwright; b. 29 Sept. 1916, Guadalajara; s. of Teniente Coronel Francisco Buero and Cruz Vallejo; m. Victoria Rodriguez 1959; two s.; ed. Instituto de Segunda Enseñanza de Guadalajara and Escuela de Bellas Artes de Madrid; visiting lecturer numerous Univs. in U.S.A. 1966; Hon. Fellow, Círculo de Bellas Artes, American Assn. of Teachers of Spanish and Portuguese, Soc. of Spanish and Spanish-American Studies, Modern Language Assn.; mem. Hispanic Soc. of America, Real Acad. Española, Int. Cttee of the Theatre of the Nations; Premio Lope de Vega 1949; Premio Nacional de Teatro 1957, 1958, 1959; Premio Maria Rolland 1956, 1958, 1960; Premio March de Teatro 1959; Premio de la Crítica de Barcelona 1960; Premio Larra 1962; Medalla de Oro del Espectador y la Crítica 1967, 1970, 1974, 1976, 1977; Premio Leopoldo Cano 1968, 1972, 1974, 1975, 1977; Premio Mayte 1974; Premio Foro Teatral 1974; Medalla de Oro "Gaceta Ilustrada" 1976. *Plays:* Historia de una Escalera 1949, Las palabras en la arena 1949, En la Ardiente Oscuridad 1950, La Tejedora de Sueños 1952, La señal que se espera 1952, Casi un Cuento de Hadas 1953, Madrugada 1953, Irene, o el Tesoro 1954, Hoy es Fiesta 1956, Las Cartas boca Abajo 1957, Un Soñador para un Pueblo 1958, Las Meninas 1960, El Concierto de San Ovidio 1962, Aventura en lo Gris 1963, El Tragaluz 1967, La doble historia del Dr. Valmy 1967, Mito 1968, El Sueño de la razón 1970, Llegada de los dioses 1971, La Fundación 1974, La Detonación 1977; *essays:* Tres Maestros ante el público 1973. *Leisure interest:* painting. *Address:* Calle Hermanos Miralles 36, Madrid 1, Spain. *Telephone:* 402-56-14.

BUFFET, Bernard; French painter; b. 10 July 1928, Paris; s. of Charles Buffet and Blanche-Emma Colombe; m. 1st Agnès Nanquette 1948 (divorced); m. 2nd Anabelle Schwob 1958, one s. two d.; ed. Lycée Carnot, Ecole Nat. Supérieure des Beaux-Arts; annual exhbns. 1949-56 in Galerie Drouant-David, and in Galerie David & Garnier 1957-; exhbns. in many foreign countries, including retrospective exhbns. Paris 1958, Berlin 1958, Belgium 1959, Tokyo 1963; illustrator of books, engraver, lithographer and stage designer; mem. Acad. des Beaux-Arts 1974-; Chevalier, Légion d'honneur; Grand Prix de la Critique 1948. *Address:* Galerie Maurice Garnier, 6 avenue Matignon, 75008 Paris, France.

BUFFUM, William Burnside, M.LITT.; American diplomatist; b. 10 Sept. 1921, Binghampton, N.Y.; m. Alma Bauman; three c.; ed. Oneonta State Teachers' Coll., Univ. of Pittsburgh, Oxford and Harvard Univs.; served U.S. Army 1943-46; entered Foreign Service 1949; has served in Stuttgart 1949, Bonn 1953-58; Deputy Dir. UN Political Affairs, Dept. of State 1963-65, Dir. 1965-66; Deputy Asst. Sec. of State for Int. Org. Affairs 1965-67; Deputy Perm. Rep. to UN 1967-70; Amb. to Lebanon 1970-73; Asst. Sec. of State for Int. Org. Affairs 1973-; UN Under Sec.-Gen. in charge of Political and General Assembly Affairs Dec. 1975-; rep. to several sessions of UN Gen. Assembly. *Address:* United Nations, New York, N.Y. 10017, U.S.A.

BUGAYEV, Air Chief Marshal Boris Pavlovich; Soviet pilot and politician; b. 29 July 1923, Cherkassy Region, Ukraine; ed. School of Civil Aviation; entered Soviet Army 1943, served World War II; Deputy Minister, then First Deputy Minister, U.S.S.R. Ministry of Civil Aviation 1966-70; Minister of Civil Aviation May 1970-; Deputy to U.S.S.R. Supreme Soviet 1970-; mem. Cen. Cttee. CPSU 1976-; Merited Pilot, Hero of Socialist Labour, Hammer and Sickle Gold Medal, Order of Lenin (twice), Red Banner (twice), Badge of Honour, U.S.S.R. State prizewinner, etc. *Address:* Ministry of Civil Aviation, 37 Leningradsky prospekt, Moscow, U.S.S.R.

BUHARI, Col. Muhammadu; Nigerian army officer and government official; b. 17 Dec. 1942, Daura, Katsina Province of Kaduna; m. Safinatu Yusuf 1971; two d.; ed. Katsina Provincial Secondary School, Nigerian Mil. Training Coll., Mons Officers' Cadet School, Aldershot, England; joined Army 1962; commissioned 1963; served 2nd Bn. in Congo (now Zaire) 1963-64; Army Service Corps 1964-66; staff and command appointments in 1st and 3rd Infantry Divs.; Defence Service Staff Coll., Wellington, India 1972-73; Acting Dir. of Supply and Transport, Nigerian Army 1974-75; Mil. Gov. of North Eastern State (divided into three States Feb. 1976) 1975-76, of Borno State Feb.-March 1976; Fed. Commr. for Petroleum 1976-78; Chair. Nigerian Nat. Petroleum Corpn.; mem. Supreme Mil. Council 1976-77. *Leisure interests:* tennis, squash, golf. *Address:* c/o Nigerian National Oil Corporation, P.M.B. 12701, Broad Street, Lagos, Nigeria. *Telephone:* 21959/50230 (Ext. 223).

BÜHLER, Hans, DR.RER.POL.; German business executive (retd.); b. 25 Nov. 1903, Freiburg i. Br.; ed. Univs. of Freiburg, Kiel and Tübingen; joined AEG 1929, Gen. Man. 1957; mem. Man. Board AEG-Telefunken 1964, Chair. Man. Board 1966-70, Chair. Supervisory Board 1970-75; hon. adviser to numerous econ. orgs. and insts.; Ehrensenator, Univ. of Erlangen 1960; Bayerischer Verdienstorden 1962; Grosses Bundesverdienstkreuz. *Address:* AEG-Telefunken, 6 Frankfurt 70, AEG Hochhaus, Federal Republic of Germany. *Telephone:* (0611) 600-41-95.

BUITER, Harm Geert, D.ECON.; Netherlands trade unionist; b. 8 Jan. 1922, Tubbergen; s. of Klaas Buiter and J. Buiter-Van Dalen; m. Hendrien Van Schooten 1947; two s. one d.; ed. Univ. van Amsterdam; former mem. Socialist Youth Movement; Chair. Socialist Students Union of Amsterdam Univ.; active in Dutch resistance during Second World War; Research Officer Dutch Metalworkers Fed. 1947; headed Joint Industrial Cttee. for metal industry in The Hague 1948-51; Sec. to Workers' Group of Metal Trades Cttee. of Int. Labour Org.; Pres. European Coal and Steel Community study mission sent to U.S. 1954; headed Gen. Secretariat of ECSC Trade Union Cttee. in Luxembourg 1956; Gen. Sec. European Trade Union Secretariat, Brussels 1958-67; Gen. Sec. Int. Confederation of Free Trade Unions (ICFTU) 1967-71; Burgomaster of Groningen 1971-. *Leisure interests:* reading, theatre, stamp collecting. *Address:* Town Hall, Grote Markt. 1, Groningen; Kamplaan 10, 9722 SH Groningen, Netherlands. *Telephone:* 179111.

BUJONES, Fernando; American ballet dancer; b. 9 March 1955, Miami, Fla.; s. of Fernando and Maria (Calleiro) Bujones; ed. School of American Ballet; joined American Ballet Theater 1972, Soloist 1973, Principal Dancer 1974, Varna Gold Medal 1974. *Ballets:* Coppelia 1974, Swan Lake 1975, Sleeping Beauty 1976, Giselle 1977. *Address:* 425 East 58th Street, New York, N.Y. 10022, U.S.A. *Telephone:* 752 0426.

BUKOVSKY, Vladimir; Russian writer and scientist; b. 30 Dec. 1942, Belebey; s. of Konstantin and Nina Bukovsky; ed. Moscow State Univ.; worked at Moscow Centre of Cybernetics; arrested for possessing banned literature 1963, confined to Leningrad Psychiatric Prison Hospital for 15 months; arrested for demonstration on behalf of Soviet writers 1965, confined for 8 months in psychiatric institutions; arrested for civil rights work 1967, on trial Sept. 1967 and sentenced to 3 years' corrective labour; arrested for delivering information on psychiatric abuse to the West 1971, on trial 1972 and sentenced to 2 years in prison, 5 in labour camp and 5 in exile; after world-wide campaign for his release, was exchanged for Chilean Communist Party leader Luis Corvalán in Zürich Dec. 1976; presently engaged in biological research at Cambridge, England; Hon. mem. several human rights orgs., several PEN clubs.

Publications: short stories in Grani, Opposition—Eine Neue Geisteskrankheit in der U.S.S.R. (German edition) 1972, A Manual on Psychiatry for Dissenters (with Semyon Gluzman) 1974, To Build a Castle: My Life ▪ a Dissenter (in English; trans. in Swedish, Italian, Spanish, French and German) 1978. *Leisure interests:* the arts, architecture. *Address:* 240 King's College, Cambridge, CB2 1ST, England.

BULATOVIĆ, Moidrag; Yugoslav writer; b. 20 Feb. 1930, Okladi, Bijelo Polje; s. of Milorad Bulatović and Milica Čuljković; m. Kansky Nuša 1964; two s. one d.; ed. Univ. of Belgrade; wrote his early works in hospitals and Red Cross centres while leading ▪ wandering life; Nin Prize for Best Yugoslav Novel 1976, Cen. Library of Serbia Prize 1977. *Publications:* Djavoli dolaze (Devils Arrive) short stories 1956, Vuk i Zvono (The Wolf and the Bell) novel-poem 1958, Crveni Petao leti prema nebu (The Red Cockerel) novel 1960, Heroj na magarcu (Hero on a Donkey) novel 1965, Godot je došao (Godot Came) play 1966, Ljudi sa četiri prsta (The Thumbless) novel 1975, Rat je bio bolji (The War was Better) novel 1977. *Address:* Belgrade, Francuska 7, Yugoslavia.

BULATOVIĆ, Vukoje; Yugoslav journalist; b. 18 March 1927, Medevce, Medvedja; s. of Sava and Milosava Čalović; m. Branka Gavrilović 1960; one s.; ed. Univ. of Belgrade; scientific Assoc., Inst. for Int. Labour Movt., Belgrade 1957-60; Rome Corresp. for Komunist newspaper 1964-69, Foreign Desk Editor 1970; Sec. of Information, Socialist Repub. of Serbia 1970-74; mem. Exec. Cttee. of the Presidency of the Cen. Cttee., League of Communists of Serbia 1974-75; Dir. of Politika Publrs., Editor-in-Chief Politika daily Feb. 1975-; Memorial Order 1941; Order for Courage (twice); Order of Merit for the People; Grand Officer of Italian Repub. *Leisure interest:* fishing. *Address:* Politika, Makedonska ulica 29, Belgrade, Yugoslavia. *Telephone:* 329-367, 325-609.

BULIN, René Henri; French aeronautical engineer; b. 8 Aug. 1920; ed. Ecole Polytechnique Paris, Ecole Nationale Supérieure de l'Aéronautique; engineer responsible for setting up Centre d'Essais des Propulseurs 1946-53; instructor, Ecole Nationale de l'Aviation Civile 1955-63; Deputy Dir., then Dir. Air Navigation Secrétariat Général de l'Aviation Civile, France 1956-61; first Dir.-Gen. European Org. for the Safety of Air Navigation (EUROCONTROL) 1961-78, responsible for having set up the Air Traffic Services Agency, Brussels and the EUROCONTROL Experimental Centre, Bretigny-sur-Orge and for establishing the Upper Area Control Centres, Maastricht, Netherlands, Karlsruhe, Germany, Shannon, Ireland, and the EUROCONTROL Inst. of Air Navigation Services, Luxembourg; Officier de la Légion d'honneur, Officier de l'Ordre de Léopold 1er, Officier du Lion de Juda, Médaille de l'aéronautique, Chevalier des Palmes académiques, Commdr. Ordre de Luxembourg. *Publication:* Technique du Transport Aérien 1958. *Address:* c/o EUROCONTROL, 72 rue de la Loi, 1040 Brussels, Belgium. *Telephone:* 13-83-00.

BULL, Lt.-Gen. Odd; Norwegian air force officer and United Nations official; b. 28 June 1907, Oslo; s. of Gjert Bull and Sigrid Bull (née Oddvin); m. Inga-Lisa Furugård 1953; one s.; ed. Vestheim School, Oslo Univ. and Norwegian Army Acad; Norwegian Army 1928-31, Air Force 1931-; Norwegian Air Force in Norway, U.K. and Canada 1940-45, Norway 1945-48; Deputy Chief of Air Staff Royal Norwegian Air Force 1948-51, Deputy Chief of Staff Operations, Allied Air Forces, N. Europe 1951-53; Air Commdr., N. Norway 1953-56; Commdr. Tactical Air Forces, Norway 1956-58; Exec. mem. UN Observation Group, Lebanon 1958; Special Rep. of UN Sec.-Gen. for British Air Evacuation and Flight Control from Jordan Oct. 1958; Commdr. Tactical Air Forces, Norway 1959-60, Chief of Air Staff, Royal Norwegian Air Force 1960-63; Chief of Staff, UN Truce Supervision Org. Palestine June 1963-70; co-operated with Israel and Jordanian authorities to secure Pope Paul's pilgrimage to the Holy Land, Jan. 1964; mem. Int. Peace Acad.; Grand Cross Order of St. Olav and other Norwegian and foreign awards; UN Medal "In the Service of Peace" (twice); Hon. Citizen of Texas. *Publications:* Norwegian Air Force Participation in World War II: Outside Norway 1948, On Duty in the Middle East 1973, War and Peace in the Middle East 1976. *Leisure interests:* skiing, swimming, reading (especially history). *Address:* Nedre Baastad Vei 48, 1370 Asker, Norway. *Telephone:* 02-782214.

BULLARD, Sir Edward C., Kt., SC.D., F.R.S.; British geophysicist; b. 21 Sept. 1907, Norwich; s. of Edward John Bullard and Eleanor Howes Crisp; m. 1st Margaret Ellen Thomas 1931 (divorced 1974), four d.; m. 2nd Ursula Margery Curnow 1974; ed. Repton and Clare Coll., Cambridge; demonstrator in Geodesy, Cambridge 1931-35; Smithson Research Fellow, Royal Society 1936-43; F.R.S. 1941; research work for Admiralty 1939-45; Fellow of Clare Coll., Cambridge 1943-48 and 1957-60, Churchill Coll., Cambridge 1960–; Reader in Geophysics 1945-48, 1960-64; Head of Physics Dept., Univ. of Toronto 1948-49; Dir. Nat. Physical Lab. 1950-55; Fellow, Caius Coll., Cambridge 1955-56, Prof. of Geophysics 1964-74; Prof. Univ. of Calif. 1963-; mem. Natural Environment Research Council 1965-68, 1970-72; foreign assoc. U.S. Nat. Acad. of Sciences; foreign hon. mem. American Acad. of Arts and Sciences; foreign corresp. Geological Soc. of America; foreign mem. American Philosophical Soc.; Hughes Medal of Royal Soc. 1953, Chree Medal of Physical Soc. 1957, Day Medal of Geological Soc. of America 1959, Agassiz Medal of U.S. Nat. Acad. of Sciences 1965, Gold Medal of Royal Astronomical Soc. 1965, Wollaston Medal of Geological Soc. of London 1967, Vetlesen Prize 1968, Bowie Medal American Geophysical Union 1975, Royal Medal of Royal Soc. 1975, Ewing Medal, American Geophysical Union 1978. *Address:* Scripps Institution, A-025, University of California, La Jolla, Calif. 92093 (Office); 2491 Horizon Way, La Jolla, Calif. 92037, U.S.A. (Home). *Telephone:* (714) 452-2159 (Office); (714) 453-7395 (Home).

BULLITT, John C.; American lawyer; b. 6 June 1925, Philadelphia, Pa.; s. of Orville H. Bullitt and Susan Ingersoll; m. 1st Lelia M. Wardwell 1954 (divorced 1976), one s. one d.; m. 2nd Judith Ogden Cabot; ed. Harvard Coll. and Univ. of Pennsylvania Law School; lawyer, Shearman Sterling, New York 1953-60; Deputy Asst. Sec. for Int. Affairs, U.S. Treasury 1961-62, Asst. Sec. 1962-64; Exec. Dir. Int. Bank for Reconstruction and Devt. 1962-65; Dir. N.J. Office of Econ. Opportunity 1965-67; Asst. Admin. for East Asia, AID, Dept. of State 1967-69; Partner, Shearman Sterling 1969-, Partner-in-Charge, Hong Kong Office; Dir. Beaver Coal; Trustee, Obor (Indonesia). *Address:* Shearman Sterling, 1801 Gamman House, 12 Harcourt Road, Hong Kong. *Telephone:* (5) 253028.

BULLOCK, Baron (Life Peer) cr. 1976, of Leafield in the County of Oxfordshire; **Alan Louis Charles Bullock,** Kt., F.B.A., M.A., D.LITT.; British author and university administrator; b. 13 Dec. 1914, Trowbridge; s. of Rev. Frank A. Bullock; m. Hilda Yates Handy 1940; three s. two d. (one deceased); ed. Bradford Grammar School, Wadham and Merton Colls., Oxford; BBC European Service diplomatic and political corresp. 1940-45; Fellow, Dean and Tutor of New Coll., Oxford 1945-52; Master of St. Catherine's Coll., Oxford 1960-; Censor, St. Catherine's Soc., Oxford 1952-60; The Observer 1957-59, Dir. 1977-; mem. Arts Council 1961-64, British Library Organizing Cttee. 1972-73, Cttee. of Vice-Chancellors and Principals 1969-73; Vice-Chancellor, Univ. of Oxford 1969-73; Chair. Inquiry into Teaching of Reading and Other Uses of Language 1972-74; Chair. Trustees of Tate Gallery 1973-; Chair. Cttee. on Industrial Democracy 1975-76; Trustee, Wolfson Foundation; Trustee and Fellow, Aspen Inst.; Chair. Research Cttee. and mem. Council, Royal Inst. of Int. Affairs (Chatham House) 1954-78; former Chair. Nat. Advisory Council on Training and Supply of Teachers; mem. Advisory Council on Public Records to 1976, Academic Advisory Cttee. Open Univ. 1978-; fmr. Chair. The Schools Council, Board of Int. Assn. for Cultural Freedom; Joint Editor Oxford History of Modern Europe, Int. Comm. of Historians for publication of documents on German Foreign Policy 1918-45; Hon. doctorates Aix-Marseilles, Bradford, Newfoundland and Reading Univs.; Hon. Fellow, Merton, Wadham, Wolfson and Linacre Colls., Oxford; Chevalier Légion d'honneur 1970. *Publications:* Hitler, a Study in Tyranny 1952, 1962, The Liberal Tradition 1956, Schellenberg Memoirs 1956, The Life and Times of Ernest Bevin, Vol. I 1960, Vol. II 1967, The Twentieth Century (editor) 1971, The Fontana Dictionary of Modern Thought (co-editor with Oliver Stallybrass) 1977. *Address:* The Master's Lodgings, St. Catherine's College, Oxford, England. *Telephone:* Oxford 49541.

BULLOCK, Theodore Holmes, PH.D.; American professor of neurosciences; b. 16 May 1915, Nanking, China; s. of A. Archibald and Ruth Beckwith Bullock; m. Martha Runquist 1937; one s. one d.; ed. Univ. of Calif., Berkeley; sterling Fellow, Yale Univ. 1940-41; Rockefeller Fellow 1941-42; Instructor in Neuroanatomy, Yale Univ. 1942-44; Asst. Prof. of Anatomy, Univ. of Missouri 1944-46; Instructor and sometime Head, Invertebrate Zoology, Marine Biol. Lab., Woods Hole, Mass.; Asst. Prof., Assoc. Prof., Prof. of Zoology, Univ. of Calif., Los Angeles 1946-66; Prof. of Neurosciences, Univ. of Calif. San Diego School of Medicine 1966-; Head of Neurobiology Unit, Scripps Inst. of Oceanography; mem. Brain Research Inst., Univ. of Calif. at Los Angeles; Assoc., Neuroscience Research Program, Brookline, Mass.; mem. Nat. Acad. of Sciences, Amer. Phil. Soc.; former Pres. Amer. Soc. of Zoology, Soc. for Neuroscience; Lashley Prize, American Philosophical Soc. 1968. *Publications:* Structure and Function in the Nervous Systems of Invertebrates (with G. A. Horridge) 1965, Introduction to Nervous Systems (with R. Orkand and A. G. Grinnell) 1977. *Address:* A-001 Department of Neurosciences, University of California, San Diego, La Jolla, Calif. 92093, U.S.A. *Telephone:* (714) 452-3636.

BULMER-THOMAS, Ivor (*see* Thomas, Ivor Bulmer-).

BULUNDWE, Kitongo Pengemali, (formerly Edouard Bulundwe); Zairian politician; b. in Katanga (now Shaba); former Pres.-Gen. of AKAKAT, tribal asscn. of the Kaonde; CONAKAT (Confédération des asscns. tribales du Katanga) Deputy for Haut-Katanga 1960; in charge of work camps for political delinquents 1960-61; one of twenty Katangan deputies who petitioned Pres. Kasavubu to release fmr. Prime Minister Tshombe and recognize the independent state of Katanga 1961; Gov. of Katanga Orientale; visited the U.S.A. as official rep. of the Democratic Republic of the Congo Dec. 1965; Minister of Public Works 1966; Admin. of Collieries, Luena 1966-67; Dir. of Katangan Provincial Cttee., Mouvement populaire de la révolution (MPR) 1967-69; Gov. of Equateur Prov. March-Aug. 1969, of Orientale 1969-70; Minister of the Interior 1970-72; mem. Political Bureau, MRP 1970-75. *Address:* Bureau Politique du Mouvement populaire de la révolution, Kinshasa, Zaire.

BUMBRY, Grace; American opera singer; b. 4 Jan. 1937, St. Louis, Mo.; d. of Benjamin and Melzia Bumbry; ed. Boston, Chicago and Northwestern Univs.; debut, Paris Opera ■ Amneris, Aida March 1960; Basle Opera 1960-63; Carmen with Paris Opera, and toured Japan; Royal Opera, Brussels; Die Schwarze Venus, Tannhäuser, Bayreuth Festival 1962; Vienna State Opera 1963; Covent Garden 1963, 1968, 1969, 1976; Salzburg Festival 1964; Metropolitan Opera 1965; La Scala 1966; Richard Wagner Medal 1963; Hon. D.H. (Univ. of St. Louis), (Rust Coll.); Hon. D.Mus. (Rockhurst Coll.); Hon. Citizen of Baltimore, Los Angeles, Philadelphia, St. Louis. *Leisure interests:* interior decorating, designing clothes. *Address:* c/o Colombia Artists Management, 165 W. 57th Street, New York, 10019, U.S.A.

BUMPERS, Dale, LL.D.; American politician; b. 12 Aug. 1925, Charleston, Ark.; m. Betty Flanagan 1949; two s. one d.; ed. Univ. of Arkansas and Northwestern Law School; proprietor Charleston Hardware and Furniture Co. 1951-66, Angus Breeding Farm 1966-70; Attorney, Charleston, Ark. 1951-70; Gov. of Arkansas 1971-74; U.S. Senator from Arkansas Jan. 1975-; Democrat. *Leisure interests:* reading, tennis, hunting. *Address:* U.S. Senate, Washington, D.C. 20510, U.S.A. *Telephone:* (202) 224-4843.

BUNACIU, Avram, D.IUR.; Romanian politician; b. 11 Nov. 1909, Gurba, Arad; s. of Ioan Bunaciu and Raveca Brădean; m. Noemi Nussbächer 1939; one s. two d.; ed. Law Faculty, Cluj Univ.; joined the Communist Party 1939; active in the resistance during the war; Sec.-Gen. Ministry of Internal Affairs 1945-47; Deputy of Grand Nat. Assembly 1948-; Minister of Justice 1948-49; Pres. State Control Comm. 1949; Asst. Minister of Foreign Affairs 1950-52; Sec. Presidium, Grand Nat. Assembly 1954-57; Minister of Justice 1957-58, of Foreign Affairs 1958-61; Vice-Pres. of State Council 1961-65; alt. mem. Central Cttee. Romanian C.P. 1948-55, full mem. 1955-69; Pres. Constitutional Cttee., Grand Nat. Assembly 1965-75; Rector, C.I. Parhon Univ. (now Bucharest Univ.) 1952. *Leisure interests:* hiking, gardening. *Address:* Marea Adunare Națională ■ R.S. Romania, Bucharest (Office); 10 Herăstrău Street, Bucharest, Romania (Home). *Telephone:* 162150 (Office); 792529 (Home).

BUND, Karlheinz, DR.ING., DR.RER.POL.; German business executive; b. 18 March 1925, Saarlouis. Chairman of Board of Ruhrkohle AG 1973-, Dir. AEG, Berlin. *Address:* 4300 Essen 1, Rellinghauser Strasse 1, Federal Republic of Germany.

BUNDY, McGeorge; American professor and foundation official; b. 30 March 1919, Boston, Mass.; s. of Harvey H. and Katharine L. (Putnam) Bundy; brother of William P. Bundy, q.v.; m. Mary B. Lothrop 1950; four s.; ed. Yale Univ.; political analyst, Council of Foreign Relations 1948-49; Visiting Lecturer, Harvard Univ. 1949-51, Assoc. Prof. of Govt. 1951-54, Dean, Faculty of Arts and Sciences 1953-61, Prof. 1954-61; Special Asst. for Nat. Security Affairs, The White House 1961-66; Pres. Ford Foundation 1966-79. *Publications:* On Active Service in Peace and War (with H. L. Stimson) 1948, Pattern of Responsibility (Editor) 1952, The Strength of Government 1968. *Address:* c/o Ford Foundation, 320 East 43rd Street, New York, N.Y. 10017, U.S.A. *Telephone:* 212-573-4700.

BUNDY, William Putnam; American editor and former government official; b. 24 Sept. 1917, Washington, D.C.; s. of Harvey H. and Katharine L. (Putnam) Bundy; brother of McGeorge Bundy, q.v.; m. Mary Acheson 1943; two s. one d.; ed. Groton School, Yale Coll., Harvard Graduate School and Harvard Law School; U.S. Army 1941-46; Lawyer with Covington and Burling, Washington D.C. 1947-51; Central Intelligence Agency 1951-61; Dep. Asst. Sec. of Defense, International Security Affairs 1961-63, Asst. Sec. of Defense, Int. Security Affairs Nov. 1963-64; Asst. Sec. for Far Eastern Affairs, Dept. of State 1964-69; Massachusetts Inst. of Technology May 1969-71; Editor Foreign Affairs (quarterly) 1972-; Fellow, Yale Corpn. 1961-; Trustee, American Assembly 1963-; Board of Dirs., Council on Foreign Relations 1964-72; Hon. American Sec.-Gen. Bilderberg Meetings 1975-; Legion of Merit, Hon. M.B.E. *Leisure interest:* tennis. *Address:* 58 East 68th Street, New York, N.Y. 10021, U.S.A. *Telephone:* (212) 734-0400.

BÜNGELER, Walter, DR.MED.; German pathologist; b. 30 Dec. 1900, Niedermendig; m. 1st Vilma Nachtrab 1926, 2nd Ingeborg Hofrichter 1971; ed. Rostock, Frankfurt-a.-M., and Bonn; lecturer in Pathology Frankfurt-a.-M. 1929; Prof. of Pathology, Danzig 1934-36; Prof. of Pathology and Dir. of Pathological Section, State Leprosy Research Inst., São Paulo, Brazil 1936-42; Prof. of Pathology and Dir. of Pathological Inst. Kiel Univ. 1942; Dean of Medical Faculty Kiel 1946-47; Prof. of Pathology and Dir. of the Munich Inst. of Pathology 1956-71; Dean of Medical Faculty, Munich 1957-58, Emer. 1969; Senator Emer. German-Latin, American Medical Acad.; Hon. mem. and Corresp. mem. of many medical socs.; Commdr. Ordem Cruzeiro do Sul (Brazil). *Publications:* Die Gasbehandlung bösartiger Geschwülste (with Fischer-Wasels) 1929, Patología Morfológica de las Enfermedades Tropicales 1944, Molestias osseas na lepra 1942, Krankheiten des Blutes und der blutbildenden Organe, Lehrbuch der Speziellen Pathologie von Kaufmann, Bösartige Geschwülste in handbook Das ärztliche Gutachten im Versicherungswesen 1954, Theorien der Geschulstenstehnung, Lepra, Lehrbuch Doerr, Allgemeine Pathologie. *Address:* 8 Munich 19, Schlagintweitstrasse 15, Federal Republic of Germany. *Telephone:* 152535.

BUNKER, Ellsworth, A.B.; American diplomatist; b. 11 May 1894, Yonkers, N.Y.; s. of George R. and Jean Polhemus (Cobb) Bunker; m. 1st Harriet Allen Butler 1920, two s. one d.; m. 2nd Carol C. Laise 1967; ed. Yale Univ.; Director Nat. Sugar Refining Co. 1927-66, Pres. 1940, Chair. of Board 1948-51; Amb. to Argentina 1951, Italy 1952-53, India 1956-61 and Nepal 1956-59; mediator, Dutch-Indonesian dispute over West New Guinea 1962; consultant to Sec. of State 1963; rep. on OAS Council 1964-66; Amb.-at-Large 1966-67, 1973-78; Amb. to Vietnam 1967-73; Pres. American Nat. Red Cross 1953-56; Dir. Centennial Insurance Co.; Life Trustee, George C. Marshall Foundation; Trustee, Atlantic Mutual Insurance Co., Hampton Inst., Inst. for Int. Social Research, Asia Foundation; Hon. Pres. Vt. Council on World Affairs; Hon. Fellow Foreign Policy Assn., New School for Social Research, Bureau of Social Science Research, Population Crisis Cttee.; mem. Council on Foreign Relations, American Acad. of Arts and Sciences; Assoc. Fellow, Calhoun Coll., Univ. of Yale; Grand Cross Knight of the Repub. of Italy; Presidential Medal of Freedom with Special Distinction 1963, 1968, Sylvanus Thayer Medal 1970, American Statesman award, Freedoms Foundation, Valley Forge 1970, Gen. George Catlett Marshall award 1974. *Leisure interests:* farming, sailing, golf, tennis. *Address:* 3900B Watson Place, N.W., Washington, D.C. 20016 (Office); Putney, Vt. 05346, U.S.A. (Home).

BUNKER, George M.; American business executive; b. 2 Jan. 1908; ed. Massachusetts Inst. of Technology; Campbell Soup Co. 1931-34; Wilson & Co. 1934-36; Partner A. T. Kearney & Co. (Management Engineers) 1936-42; Vice-Pres. The Kroger Co. 1942-49; Pres., Gen. Manager and Dir. Trailmobile Inc. 1949-52; Pres., Gen. Manager and Dir. The Martin Co., Baltimore 1952-59, Chair. Board 1959-61; Pres. and Chief Exec. Officer Martin-Marietta Corpn., New York City 1961-, Chair. of Board 1967-. *Address:* Martin-Marietta Corporation, 277 Park Avenue, New York, N.Y. 10017; and 4940 Indian Lane, N.W., Washington, D.C., U.S.A.

BÜNNING, Erwin, DR.PHIL.; German botanist; b. 23 Jan. 1906, Hamburg; s. of Hinrich and Hermine Bünning; m. Eleonore Walter 1935; one s. two d.; ed. Univs. of Berlin and Göttingen; Lecturer, Univ. of Jena 1931-35, Univ. of Königsberg 1935-42, Prof. 1938; Prof., Univ. of Strasbourg 1942-44, Univ. of Cologne 1944-46; Prof. of Botany, Univ. of Tübingen 1946-72; mem. Leopoldina Acad., Halle, and Acads. of Berlin, Heidelberg, Göttingen, Munich, New York; Foreign Assoc., Nat. Acad. of Sciences, Washington; Hon. mem. Japanese Botanical Soc., Amer. Soc. Plant Physiology; Corresp. mem. Amer. Botanical Soc.; Hon. LL.D. (Glasgow), Dr.rer.nat. (Freiburg and Erlangen). *Publications:* Entwicklungs-und Bewegungsphysiologie der Pflanze 1953, Theoretische Grundfragen der Physiologie 1948, In den Wäldern Nord-Sumatras 1948, Der tropische Regenwald 1956, Die physiologische Uhr 1963, (in Russian 1958), The Physiological Clock 1973, (in Chinese 1965, Japanese 1976), Wilhelm Pfeffer 1975; about 250 publications in several fields of biology, especially plant physiology, movements, differentiation, photobiology. *Address:* Institut für Biologie 1, Auf der Morgenstelle 1, 74 Tübingen, Federal Republic of Germany. *Telephone:* Tübingen 292605.

BUNSHAFT, Gordon, B.ARCH., M.ARCH.; American architect; b. 9 May 1909, Buffalo, N.Y.; s. of David and Yetta Bunshaft; m. Nina Elizabeth Wayler 1943; ed. Mass. Inst. of Technology; Chief Designer, Skidmore, Owings and Merrill 1937-42, Partner 1949-; mem. Pres. Comm. of Fine Arts 1963-72; Int. Council of Museum of Modern Art, American Inst. of Architects, Nat. Acad. of Design, Nat. Inst. of Arts and Letters; Fellow American Inst. of Architects; Trustee, Museum of Modern Art, Carnegie Mellon Univ., Pittsburgh; Hon. mem. Buffalo Fine Arts Acad.; American Inst. of Arts and Letters Architectural Award 1955, Brunmer Award, Inst. of Arts and Letters 1955; Hon. Dir. Fine Arts Univ. of Buffalo; Chancellor's Medal, Univ. of Buffalo 1969. *Projects include:* Lever House (New York), Manufacturers Trust Co. (Fifth Avenue, New York), Conn. Gen. Life Insurance Co. building (Hartford, Conn.), Beinecke Rare Book and Manuscript Library (Yale Univ.), Banque Lambert (Brussels), Albright-Knox Art Gallery (Buffalo, N.Y.), Library-Museum of Performing Arts (Lincoln Center, N.Y.), H. J. Heinz Co. Ltd. (Middx., England), Hirshhorn Museum (Washington), Lyndon Baines Johnson Library and S. & W. Richardson Hall, Univ. of Texas (Austin, Tex.), American Can Co. Headquarters (Greenwich, Conn.), Marine Midland Bldg. (New York, N.Y.), Haj Terminal and Support Complex, Jeddah Int. Airport (Saudi Arabia). *Leisure interest:* collecting of art. *Address:* Skidmore, Owings and Merrill, 400 Park Avenue, New York, N.Y. 10022 (Office); 200 East 66th Street, New York, N.Y., U.S.A. (Home). *Telephone:* (212) PLaza 9-2121 (Office).

BUNTING, Sir (Edward) John, K.B.E., B.A.; Australian civil servant (retd.); b. 13 Aug. 1918, Ballarat, Vic.; s. of late G. B. Bunting and Ellen Withers; m. Peggy MacGruer 1942; three s.; ed. Trinity Grammar, Trinity Coll., Melbourne Univ.; assistant Sec., Prime Minister's Dept. 1949-53; Official Sec. Australian High Comm., London 1953-55; Deputy Sec., Prime Minister's Dept. 1955-58, Sec. and Sec. to Australian Cabinet 1959-68; Sec. Dept of Cabinet Office 1968-71, Dept. of Prime Minister and Cabinet and Sec. to Cabinet 1971-75; High Commr. in U.K. 1975-77; Chair. of Divs. Roche-Maag Ltd., Sydney; mem. Australia Council, Exec. Cttee. Sir Robert Menzies Memorial Trust. *Leisure interests:* golf, music, reading. *Address:* 8 Arnhem Place, Red Hill, A.C.T. 2603, Australia.

BUNTING, John R.; American banker; b. 29 June 1925, Philadelphia, Pa.; m.; two c.; ed. The Hill School, Pottstown, Pa. and Temple Univ.; Federal Reserve Bank of Philadelphia 1950-64, Vice-Pres. 1962-64; Vice-Pres. and Economist, The First Pennsylvania Banking and Trust Co. 1964, Exec. Vice-Pres. 1965, Pres. Sept. 1968-, Chair. and Chief Exec. Officer 1972-; Lecturer in Econs., Temple Univ. 1956-60; guest lecturer at many other univs. and colls.; Dir. City Stores Co., Fidelity Mutual Life Insurance Co., Greater Philadelphia Chamber of Commerce; Dir. or Trustee of many civic and educational orgs.; Hon. D.B.A. (St. Joseph's Coll., Philadelphia); Hon. LL.D. (Temple Univ.); Hon. Fellow, Hebrew Univ., Israel. *Publications:* The Hidden Face of Free Enterprise 1964, and numerous articles in business and financial publications. *Address:* First Pennsylvania Corporation and The First Pennsylvania Banking and Trust Co., 1500 Market Street, Centre Square, Philadelphia, Pa. 19101, U.S.A.

BUÑUEL, Luis; Mexican (b. Spanish) film director; b. 22 Feb. 1900, Calanda; s. of Leonardo Buñuel and María Partales; m. Jeanne Rucar 1934; two s.; ed. by Jesuits and Univ. de Madrid; at Madrid Univ. with Dali (q.v.) and Lorca 1920; asst. to dir. J. Epstein, Paris 1924-28; participated in surrealist movement; collaborated with Dali on first film, Un Chien Andalou 1929; in U.S.A. 1938-47, Mexico 1947-60; France and Spain 1960-; Prix Spécial de la Critique, Cannes Festival 1951; Order of the Yugoslav Flag 1971. *Films include:* Un Chien Andalou 1929, L'Age d'Or 1930, Land without Bread 1936, Los Olvidados 1950 (Prize, Cannes Festival 1951), Subida al Cielo 1951 (grand prix d'Avant Garde 1952), The Adventures of Robinson Crusoe 1953, The Criminal Life of Archibaldo de la Cruz 1955, La Mort en ce Jardin (Evil Eden) 1956, Nazarin 1958, La Fièvre monte à El Pao, El Jóven 1960, Viridiana 1961 (Prize, Cannes Festival), El Angel Exterminador 1962 (Prize, Cannes Festival 1962), Le Journal d'une femme de chambre 1964, Simon of the Desert 1965 (Prize, Venice Festival), Belle de Jour 1966 (Golden Lion of Saint Mark, Venice Film Festival 1967), La Voie Lactée 1969, Tristana 1970, Le Charme Discret de la Bourgeoisie 1972 (Oscar 1973), Le Fantôme de la Liberté 1974, That Obscure Object of Desire 1977. *Address:* c/o Greenwich Film Production, 72 avenue des Champs-Elysées, 75008 Paris, France.

BUNWAREE, Goorpersad; Mauritian banker; b. 12 May 1919, Mauritius; ed. Royal Coll., Mauritius, Oxford Univ. and Econ. Devt. Inst., Washington, D.C.; Assistant Sec., Cen. Admin. Secr. 1956-57; Principal Asst. Sec., Ministry of Industry, Commerce and External Communications 1957-63; Deputy Financial Sec. 1963-66; Perm. Sec., Ministry of Works and Internal Communications 1966-67; Financial Sec. 1967-69; Man. Dir. Bank of Mauritius 1970-72, Gov. Jan. 1973-. *Address:* Bank of Mauritius, P.O. Box 29, Port Louis (Office); Sir Virgil Naz Avenue, Quatre Bornes, Mauritius (Home).

BURAKIEWICZ, Janusz; Polish politician; b. 20 Nov. 1916, Leningrad, U.S.S.R.; s. of Wincenty Burakiewicz and Janina Chelminska; m. Wanda Slusarczyk 1945; three s.; ed. Main School of Commerce, Warsaw; bank employee, Warsaw until 1939; during Second World War took part in campaign of Sept. 1939; in Auschwitz and Sachsenhausen Concentration Camps 1941-45; at Cen. Board of Metallurgical Industry, Katowice 1945-47; at various important posts at Ministry of Industry and Trade, Ministry of Foreign Trade and Office of Council of Ministers 1945-56; Commercial Counsellor, Budapest 1950-53; Commercial Counsellor, Berlin 1956-58; Deputy Minister of Foreign Trade 1958-64; Minister of Shipping 1964-69; Minister of Foreign Trade 1969-71; mem. Polish Workers' Party 1945-48, Polish United Workers' Party 1948–; Vice-Pres. Union of Fighters for Freedom and Democracy 1969-72; Amb. to Yugoslavia 1971-78; Pres. Polish Chamber of Foreign Trade 1978-; Order of Banner of Labour 1st and 2nd Class, Order Polonia Restituta 3rd and 5th Class, Great Ribbon of the Homayoun Order of Iran, Gold Cross of Merit, Medal of 10th Anniversary of People's Poland. *Leisure interests:* gardening, fishing. *Address:* Polska Izba Handlu Zagranicznego, ul. Trębacka 4, 00-704 Warsaw, Poland.

BURBIDGE, (Eleanor) Margaret Peachey, PH.D., F.R.S.; American astronomer; d. of Stanley John and Marjorie (née Stott) Peachey; m. Geoffrey Burbidge (q.v.) 1948; one d.; ed. Frances Holland School, London and Univ. Coll., London; acting Dir. Univ. of London Observatory 1950-51; Research Fellow, Yerkes Observatory, Univ. of Chicago 1951-53, Calif. Inst. of Technology 1955-57; Shirley Farr Fellow, later Assoc. Prof. Yerkes Observatory and mem. Fermi Inst., Univ. of Chicago 1957-62; Assoc. Prof., later Prof. of Astronomy, Univ. of Calif., San Diego 1962-; Dir. Royal Greenwich Observatory 1972-73; mem. Royal Astronomical Soc., Amer. Astronomical Soc. (Pres. 1978), Int. Astronomical Union, Amer. Acad. of Arts and Science, Nat. Acad. of Sciences; Fellow, Univ. Coll., London, Lucy Cavendish Coll., Cambridge, Girton Coll., Cambridge; Helen B. Warner Prize (jointly with Geoffrey Burbidge) 1959; Hon. D.Sc. (Smith Coll., Mass., and Univs. of Sussex, Leicester, Bristol, Mich., Mass. and City Univ., London). *Publications:* Quasi-Stellar Objects (with Geoffrey Burbidge) 1967; numerous articles in scientific journals. *Address:* Department of Physics, University of California at San Diego, La Jolla, Calif. 92093, U.S.A.

BURBIDGE, Frederick Stewart, B.A., LL.B.; Canadian transport executive; b. 30 Sept. 1918, Winnipeg; s. of Frederick M. and Susan M. (Stewart) Burbidge; m. Cynthia A. Bennest 1942; two s.; ed. Ravenscourt School, Winnipeg, Univ. of Manitoba, Manitoba Law School; called to the Bar, Manitoba 1946; joined Law Dept. of Canadian Pacific 1947, Asst. Solicitor Winnipeg 1947-50, Montreal 1950-57, Solicitor 1957-60, Asst. Gen. Counsel 1960, Asst. Vice-Pres. Traffic 1962, Vice-Pres. Rail Admin. 1966, Vice-Pres. and Exec. Asst. 1967, Vice-Pres. Admin. 1969, Vice-Pres. Marketing and Sales 1969, Senior Exec. Officer Canadian Pacific Rail; Vice-Pres. Canadian Pacific 1971, Pres. 1972-; Dir. Canadian Pacific Ltd., Canadian Pacific Steamships Ltd., Canadian Pacific (Bermuda) Ltd., Canadian Pacific Investments, Cominco Ltd., Bank of Montreal, Soo Line Railroad Co., Toronto, Hamilton and Buffalo Railroad Co., Marathon Realty Co. Ltd., Canadian Pacific Transport Co. Ltd., Canadian Industries Ltd.; mem. Exec. Cttee. Bank of Montreal; mem. Board of Dirs. Bishop's Coll. School, Gen. Council of Industry (Quebec); Dir. Royal Victoria Hosp. Foundation; mem. Montreal Board of Trade, La Chambre de Commerce du district de Montréal, Law Soc. of Man., Fed. Advisory Council to the Minister of Industry, Trade and Commerce; Citizens' Advisory Board, Salvation Army; Hon. Vice-Pres. Quebec Provincial Council, Boy Scouts of Canada. *Address:* Canadian Pacific, Windsor Station, Montreal H3C 3E4, Quebec, Canada. *Telephone:* 861-6811.

BURBIDGE, Geoffrey, PH.D., F.R.S.; British physicist; b. 24 Sept. 1925; s. of Leslie and Eveline Burbidge; m. Margaret Peachey 1948 (q.v. Eleanor Margaret Peachey Burbidge); one d.; ed. Bristol Univ. and Univ. Coll., London; Assistant Lecturer, Univ. Coll. London 1950-51; Agassiz Fellow, Harvard Univ. 1951-52; Research Fellow, Cavendish Lab., Cambridge 1953-55; Carnegie Fellow, Mount Wilson and Palomar Observatories 1955-57; Asst. Prof. Dept of Astronomy, Univ. of Chicago 1957-58; Assoc. Prof. 1958-62; Assoc. Prof. Univ. of Calif. (San Diego) 1962-63, Prof. 1963-78; Dir. Kitt Peak Nat. Observatory 1978-; Phillips Visiting Prof., Harvard Univ. 1968; Pres. Astronomical Soc. of the Pacific 1974-76; Dir. Associated Univs. for Research in Astronomy 1971-74; Fellow, Univ. Coll.,

London; Editor Annual Review of Astronomy and Astrophysics 1974-; Trustee, Associated Univs. Inc. 1973-. *Address:* P.O. Box 26732, 950 North Cherry Avenue, Tuscon, Arizona 85726, U.S.A. *Telephone:* (602) 327-5511.

BURBRIDGE, Kenneth Joseph, M.A., B.C.L., PH.D.; Canadian diplomatist; b. 2 July 1911, Bathurst, N.B.; s. of Harry J. Burbridge and Elizabeth Foley; m. Marion C. Smith 1943; one s. one d.; ed. St. Thomas and St. Francis Xavier Univs., and Univs. of New Brunswick and Ottawa; private legal practice, St. John, New Brunswick 1939-41; various public appointments incl. Legal Counsel, Dept. of Munitions and Supply, Ottawa 1941-43; Chief Legal Adviser to Nat. Selective Service, Dept. of Labour, Ottawa 1943-44; Legal Adviser to Unemployment Insurance Comm., Ottawa 1945; Counsellor to Sec. of State and War Legal Adviser, Dept. of External Affairs and Claims Branch, Dept. of Sec. of State, Ottawa 1945-47; Adviser and Del. to various int. bodies 1947-53; Canadian Deputy Perm. Rep. to North Atlantic Council (NATO) and OEEC 1954-57; Consul-Gen. of Canada, Seattle 1957-63; Canadian del. to Colombo Plan Conf., Seattle 1958; High Commr. to New Zealand 1963-67; Dir. U.S.A. Div., Dept. of External Affairs 1968-70; Canadian del. to IMCO and ECE Conf. on Int. Combined Transport, London 1970, to IMCO/ECE Conf. on Int. Shipping Legislation, Geneva 1970, to Int. Conf. on Unlawful Interference with Civil Aviation 1971; Canadian Del. UN/IMCO Conf. on Int. Container Traffic 1972; Exec. Dir. Int. Transport Policy Cttee., Canadian Transport Comm. 1970-. *Leisure interests:* oil painting, golf, skiing. *Address:* 930 Sadler Crescent, Ottawa K2B 5H7, Ont., Canada. *Telephone:* 729-2324.

BURBURY, Hon. Sir Stanley Charles, K.C.V.O., K.B.E., K.ST.J.; Australian judge and state governor; b. 2 Dec. 1909, Perth, W.A.; s. of Daniel Charles Burbury; m. Pearl Christine Barren 1934; ed. Hutchins School, Hobart, Univ. of Tasmania; admitted to Bar 1934; Queen's Counsel 1950; Solicitor-Gen. Tasmania 1952; Chief Justice of Tasmania 1956-73; Gov. of Tasmania 1973-; Nat. Pres. Heart Foundation of Australia 1967-78; Dir. Winston Churchill Memorial Trust; Hon. LL.D., Tasmania 1970; Hon. Col. Royal Tasmania Regiment 1974. *Leisure interests:* music, bowls. *Address:* Government House, Hobart, Tasmania, Australia.

BURCH, Dean, LL.B.; American attorney and government official; b. 20 Dec. 1927, Enid, Okla.; s. of Bert Alexander and Leola (Atkisson) Burch; m. Patricia Meeks 1961; one s. two d.; ed. Univ. of Arizona. Asst. Attorney-Gen., Ariz. 1953-54; Admin. Asst. to Senator Barry Goldwater 1955-59; mem. firm Dunseath, Stubbs & Burch, Tucson 1959-63; Deputy Dir. Goldwater for Pres. Cttee. 1963-64; Chair. Republican Nat. Cttee. 1964-65; Partner, Dunseath, Stubbs & Burch 1965-69; Chair. Fed. Communications Comm. 1969-74; Counsellor to Pres. Nixon March-Aug. 1974, to Pres. Ford 1974-75; Partner, Pierson, Ball & Dowd, Washington, D.C. *Leisure interests:* golf, tennis. *Address:* 9311 Persimmon Tree Road, Potomac, Md. 20854, U.S.A. *Telephone:* 301-983-1294.

BURCHAM, Lester Arthur; American retailing executive; b. 26 April 1913; ed. Public Schools, Lancaster. F. W. Woolworth Co., New York City 1931-77, Trainee, Manager, Superintendent, Sales Manager, District Manager 1931-58, Vice-Pres. 1958-62, Exec. Vice-Pres. 1962-64, Pres. 1965-69, Chair. and Chief Exec. Office 1970-77; Dir. Richman Brothers Co. *Address:* Baldwin Farms, South Greenwich, Conn. 06830, U.S.A.

BURDEN, William Armistead Moale, A.B.; American financier and diplomatist; b. 8 April 1906; ed. Harvard Univ. Vice-Pres. Nat. Aviation Corpn. 1939-41, Defence Supplies Corpn. 1941-42; Asst. Sec. of Commerce for Air 1943-47; Aviation Consultant Smith Barney & Co. Inc. 1947-49; Partner William A. M. Burden & Co. 1949-; Special Asst. for Research & Devt. to Sec. of Air Force 1950-52; mem. Nat. Aeronautics and Space Council 1958; Amb. to Belgium 1959-61; Dir. Columbia Broadcasting Co.; Trustee (Past Pres.), Museum of Modern Art; Chair. Board of Trustees, Inst. of Defense Analyses; Pres. France America Soc.; Chair. Council of French-American Socs. in New York; mem. U.S. Citizens' Comm. for NATO 1961-62; Grand Officier, Légion d'honneur, El Sol del Perú, Commdr. Cruzeiro do Sul (Brazil), Order of Merit (Italy), Assoc. Commdr. Order of St. John, Commdr.'s Cross, Order of Merit (Fed. Repub. of Germany), Grand Cordon Ordre de Léopold II; Hon. D.Sc. (Clarkson Coll. of Technology), Hon. LL.D. (Fairleigh Dickinson and Johns Hopkins Univs.). *Publications:* The Struggle for Airways in Latin America 1943. *Address:* 820 Fifth Avenue, New York, N.Y. 10021, U.S.A.

BURDICK, Quentin Northrop, B.A., LL.B.; American lawyer and politician; b. 19 June 1908, Munich, N.D.; s. of late Usher L. Burdick and Emma Robertson; m. 1st Marietta Janecky (died 1958), m. 2nd Mrs. Jocelyn Birch Peterson; seven c.; ed. Williston High School, Univ. of Minnesota; admitted to N. Dakota Bar 1932, practised Fargo 1932-58; Candidate for Gov. 1946, for U.S. Senator 1956; elected to House of Reps. 1958; Senator from n. Dakota 1961–; Democrat. *Address:* Senate Office Building, Washington, D.C. 20510 (Office); 1110 South 9th Street, Fargo, North Dakota, U.S.A. (Home).

BURELLI RIVAS, Miguel Angel, LL.B., DR.POL.SC.; Venezuelan lawyer and diplomatist; b. 8 July 1922; ed. Univ. de Los Andes, Bogotá, Univ. Central de Venezuela et de Ecuador, Univ. Nacional de Bogotá, Univ. de Madrid and Univ. di Firenze; pre-seminary Prof. of Political Sociology and Chief Prof. of Mining and Agrarian Legislation, Faculty of Law, Univ. de Los Andes, Bogotá, Chief Prof. of Humanities I and II, Faculty of Civil Eng., Dir. of Univ. Culture, Founder of School of Humanities, Founder-Dir. of Univ. reviews, Bibliotheca and Universitas Emeritensis; Political Dir. Ministry of the Interior; Dir.-Gen. Ministry of Foreign Affairs (nine times Acting Minister); Interim Minister of Foreign Affairs; returned to legal profession 1961; mem. Venezuelan Supreme Electoral Council 1961; Minister of Justice 1964-65; Amb. to Colombia 1965-67, U.K. 1967-69; Presidential Candidate 1968, 1973; Amb. to U.S.A. 1974-76; Vice-Dir. Grand Colombian Merchant Fleet; Gen. Sec. Venezuelan Del. to Fourth Session UN Gen. Assembly; Asst. Sec.-Gen. Tenth Interamerican Conf.; Del. Perm. Coffee Comm. of Pan American Union; mem. Inquiry Comm. on British Guiana-Venezuela Boundary; mem. Editorial Cttee. Meridanian Themes and Collection of Authors 1964-; Grand Cordon, Order of the Liberator, Grand Cross, Order of Merit (Fed. Repub. of Germany), Grand Cross of Merit (U.A.R.), Grand Officer, Order of Merit and Grand Cross, Order of St. Gregory the Great (Italy), Grand Cross, Order of Boyacá and Medal of Postal Merit, First Class (Colombia). *Address:* c/o Ministerio de Asuntos Exteriores, Caracas, Venezuela.

BURESCH, Eugen F., LL.D.; Austrian diplomatist; b. 9 Oct. 1915, Vienna; s. of Karl Buresch, LL.D., Federal Chancellor; m. Edda Grieshoffer 1961; two s. three d.; ed. High School Theresianum, Vienna, Univ. of Vienna and Ecole des Sciences Politiques, Paris. Officer, Comité Int. du Bois, Brussels 1938-39; First Sec., Rome 1946-49; in Political Dept., Foreign Office, Vienna 1949; First Sec., London 1950-51; Dir. Austrian Information Service, New York 1952-55; Chargé d'affaires, Austrian Embassy, Iran 1955, Minister 1958, Amb. 1960, concurrently to Afghanistan; Amb. to Canada 1960-64; Head of Austrian negotiating del. with EEC, Brussels and Luxembourg 1965-68; Amb. to UN at Geneva 1968; Amb. to Mexico 1973-77; Head of Economic Section, Fed. Ministry of Foreign Affairs, Vienna 1977-78; Vice-Dir. Danube Comm., Budapest April 1978-; mem. Alumni Theresianische Akad. *Publications:* articles in newspapers. *Address:* Benczúr utca 25, H-1068 Budapest, Hungary. *Telephone:* 228083-5.

BURG, Josef, DR. PHIL.; Israeli politician; b. 31 Jan. 1909, Germany; m. Rivga Slonim 1943; one s. two d.; ed. Univs. of Berlin and Leipzig; Pedagogical Inst. Leipzig; Rabbinical Seminary Berlin; and Hebrew Univ. of Jerusalem. Directorate, Palestine Office, Berlin 1936; Nat. Exec. Mizrachi; Zionist Gen. Council 1939-51; mem. Exec. Hapoel Hamizrachi 1944-; Deputy Speaker First Knesset (Israeli Parl.) 1949-51; Minister of Health, Govt. of Israel 1951-52; Minister of Posts and Telegraphs Dec. 1952-58; Minister of Social Welfare 1959-70, Minister of the Interior 1970-76, Minister of Welfare July-Nov. 1975; Minister of Interior and Police June 1977–; Nat. Religious Party. *Address:* 6 Ben Maymon Street, Jerusalem, Israel.

BURGARD, Horst; German banker and company executive; b. 28 Jan. 1929; member of Management Board, Deutsche Bank AG; Chair. Supervisory Board, Didier-Werke AG, Hutschenreuther AG, Westfalia Separator AG; Deputy Chair. of Supervisory Board, Frankfurter Hypothekenbank, Messer Griesheim GmbH; mem. Supervisory Board, AG für Industrie und Verkehrswesen, Harpener AG, Thyssen Edelstahlwerke AG, Rütgerswerke AG, Bertelsmann AG, Rheinisch-Westfälische Kalkwerke AG; Chair. Man. Board, Arbeitgeberverband des privaten Bankgewerbes e.V. (Private Banking Employers' Assn.); mem. Man. Board Bundesvereinigung der deutschen Arbeitgeberverbände (Fed. Union of Employers, Asscns.). *Address:* Grosse Gallusstrasse 10-14, 6000 Frankfurt am Main, Federal Republic of Germany.

BURGBACHER, Fritz, DR.RER.POL.; German businessman; b. 1 Sept. 1900, Mainz; s. of Karl Burgbacher and Elisabeth Finkenäuer; m. Elisabeth Kinkel 1922; one s. three d.; ed. Frankfurt/Main Univ. Syndikus, Dresdner Bank, Mainz 1923-25; auditor 1925-29; Dir. Rhenag Rheinische Energie A.G., Cologne 1929-70; Dir. of various industrial and power-supplying companies; Hon. mem. Verband der Deutschen Gas- und Wasserwerke; Chair. Board and Power Cttee. Landesplanungsgemeinschaft Rheinland; mem. Bundestag

1957-76; Vice-Pres. European Parliament, mem. Power and Econ. Cttee.; Bundesverdienstkreuz mit Stern; Christian Democrat. *Publications:* Wesen und Gestaltungsformen der Gasverbundwirtschaft 1950, Die Bedeutung sozialer, politischer und psychologischer Faktoren in der Entwicklung der Energiewirtschaft, Das Problem der oberen Führungskräfte 1953, Der Bildungsauftrag des christlichen Unternehmers 1954, Gedanken zu unserer Zeit 1957, Politik auf drei Ebenen 1961, Politik, Idee und Wirklichkeit 1965, Freiheit und Ordnung 1969, Produktivkapital für jeden—die Pflicht zum Eigentum 1971. *Address:* Bayenthalgürtel 9, 5 Cologne-Marienburg, Federal Republic of Germany. *Telephone:* 380281.

BURGER, Warren E(arl); American judge; b. 17 Sept. 1907, St. Paul; s. of Charles Joseph Burger and Katherine Schnittger; m. Elvera Stromberg 1933; one s. one d.; ed. Univ. of Minnesota, St. Paul Coll. of Law; admitted to Minn. Bar 1931; Partner, Faricy, Burger Moore & Costello 1935-53; mem. Faculty, Mitchell Coll. of Law 1931-48; Asst. Attorney-Gen. of U.S. 1953-56; Judge, U.S. Court of Appeals, Washington, D.C. 1956-69; Chief Justice of U.S. 1969-; Hon. Chair. Inst. of Judicial Admin.; Hon. Chair. Criminal Justice Project, American Bar Assen.; Pres. Bentham Club, Univ. Coll. London 1972-73; Chancellor, Board of Regents, Smithsonian Inst., Washington, D.C.; Chair. Board of Trustees, Nat. Gallery of Art, Washington, D.C.; Trustee Emer. Wm. Mitchell Coll. of Law, St. Paul, Minn., Mayo Foundation, Rochester, Minn., and Macalester Coll., St. Paul, Minn.; Trustee, Nat. Geographic Soc.; Hon. Master of the Bench, Middle Temple, London 1969; Hon. LL.D. (Columbia Univ.). *Address:* Supreme Court Building, 1 First Street, N.E., Washington, D.C. 20543, U.S.A.

BURGERS, Johannes Martinus, DR. PHIL.; Netherlands university professor; b. 13 Jan. 1895, Arnhem; s. of Johannes Martinus Burgers and Johanna Hendrika Romijn; m. 1st Jeannette Dolvina Roosenschoon (died 1939), one s. two d. (one deceased); 2nd Anna Margretha Verhoeven 1941; ed. Univ. of Leiden. Prof. Aero- and Hydro-dynamics Technical Univ. of Delft 1918-55; Research Prof. Inst. for Fluid Dynamics and Applied Mathematics, Univ. of Maryland 1955-; mem. Royal Neths. Acad. of Sciences 1931-; Foreign mem. Accad. delle Scienze di Torino 1964; Dr. h.c. Univ. Libre de Bruxelles 1948, Univ. of Poitiers 1950; mem. American Acad. of Arts and Sciences and of several socs.; Knight Order of Netherlands Lion. *Publications:* Experience and Conceptual Activity 1965, Flow Equations for Composite Gases 1969, The Nonlinear Diffusion Equation 1975, and on hydro- and aero-dynamics, etc., since 1920. *Leisure interests:* many, of great diversity. *Address:* Institute for Physical Science and Technology, University of Maryland, Md. 20742 (Office); 3450 Toledo Terrace, Apt. 517, Hyattsville, Md. 20782, U.S.A. (Home). *Telephone:* (301) 454-2705 (Office); (301) 853-3148 (Home).

BURGESS, Anthony, B.A., F.R.S.L.; British writer; b. 25 Feb. 1917, Manchester; s. of Joseph Wilson and Elizabeth Burgess; m. 1st Llewela Isherwood Jones 1942 (deceased), 2nd Liliana Macellari, Countess Pasi 1968; one s.; ed. Xaverian Coll., Manchester and Manchester Univ. British Army 1940-46; Chief Instructor, Western Command Coll. 1946-48; Lecturer in Speech and Drama, Ministry of Educ. 1948-50; Master Banbury Grammar School 1950-54; Educ. Officer Malaya and Borneo 1954-59; freelance writer 1959-; reviewer of many British newspapers and journals including Listener, Observer, Sunday Times, Spectator, Queen; Visiting Prof. Univ. of N. Carolina 1969-70, Princeton Univ. 1970-71; Distinguished Prof., City Coll., N.Y. 1972-73; Prof. Columbia Univ. 1973-; Fellow, Royal Soc. of Literature; Literary Adviser, Guthrie Theater, Minn.; U.S. Nat. Arts Club Gold Medal; Knight of Mark Twain. *Publications:* fiction: Malayan Trilogy (The Long Day Wanes) 1956-59, The Doctor is Sick 1960, The Worm and the Ring 1961, Devil of a State 1961, A Clockwork Orange 1962, The Wanting Seed 1962, Honey for the Bears 1963, Inside Mr. Enderby (as Joseph Kell) 1963, Nothing Like the Sun 1964, The Eve of St. Venus 1964, Tremor of Intent 1965, Enderby Outside 1968, MF 1970, Napoleon Symphony 1974, The Clockwork Testament 1974, A Long Trip to Teatime 1976, Beard's Roman Women 1977, Abba Abba 1977, L'Homme de Nazareth 1977, 1985 1978, Christ The Tiger 1978; biography: Shakespeare 1971, Ernest Heminway and his World 1978; trans.: Cyrano de Bergerac 1971, Oedipus the King 1972; philology: Language Made Plain 1965; criticism: The Novel Today 1963, Here Comes Everybody—an introduction to James Joyce 1965, The Novel Now 1967, Joysprick 1973; poetry: Moses 1976; television: Lots of Fun at Finnegans Wake 1973, Moses 1973, Michelangelo 1975, Jesus of Nazareth 1976. *Leisure interests:* travel, playing organ, piano, harpsichord, musical composition, philology, linguistics, cooking. *Address:* 44 rue Grimaldi, Monaco; 2 Piazza Padella, Bracciano, Italy; 7 rue Longue, Callian, Var, France.

BURGESS, Sir John Lawie, Kt., O.B.E. (Mil.), T.D., J.P.; British newspaper and television executive; b. 17 Nov. 1912, Carlisle; s. of late R. N. Burgess; m. Alice Elizabeth Gillieron; two s. one d.; ed. Trinity Coll., Glenalmond, Scotland. Sec., Cumberland Newspapers Ltd. 1934-45; war service abroad with Border Regt. 1939-45; Chair. and Editor-in-Chief Cumberland Newspapers Ltd. 1945-77; Dir. Press Assen. 1950-57, Chair. 1957; Dir. Reuters 1955-68, Chair. 1958-68; Chair. Border TV Ltd. 1960-; mem. of Council, Commonwealth Press Union; Hon. Col. 4th Battalion Border Regt. 1956-68; D.L. Cumberland 1956. *Address:* The Limes, Cavendish Terrace, Carlisle, Cumberland, England. *Telephone:* Carlisle 37450.

BURGUAN, Salih Khalil, M.D.; Jordanian physician, politician and international civil servant; b. 19 July 1918, Kerak; s. of Khalil Burgan and Labeebah (née Halasa); m. Blanche (née Khoury) 1949; three s. one d.; ed. American Univ. of Beirut. Physician, Transjordan Frontier Forces (T.J.F.F.) 1943-46, Dir. of Arab Physicians (T.J.F.F.) 1946-48; private physician at Zerka, Jordan 1948-63; mem. Parl. 1961-62, Senate 1963-69; Minister of Health 1963-64, of Social Affairs and Labour 1966, of Public Health 1966-67, of Social Affairs and Labour and Minister of Interior for Municipal and Rural Affairs 1967-69; Dir. Int. Labour Office, Beirut 1969-75, Asst. Dir.-Gen., Geneva June 1975-; Al Kawkab Medal (1st Grade); Grand Kt. of the Holy Tomb. *Leisure interests:* reading, classical music. *Address:* International Labour Office, Case Postale 500, CH-1211 Geneva 22; Residence: 11 Parc de Budé, 1202 Geneva, Switzerland.

BURIAN, Jiří, ING.; Czechoslovak agriculturalist and politician; b. 3 Jan. 1921, Rosovice; ed. agricultural coll.; apprenticed as bricklayer; agricultural work 1942-48; Chair. Local Nat. Cttee., Dobříš, Bohemia 1948-50; mem. Agricultural Dept., Regional Nat. Cttee., Prague 1950-54; Head, Agricultural Dept., District Cttee. of Communist Party, Prague 1954-58; Head of Div., Agricultural Dept., Cen. Cttee. of CP 1962-63; Minister of Agric. 1963-65; mem. Agricultural Comm., Cen. Ctee. of CP of Czechoslovakia 1963-69; mem. Nat. Assembly 1964-69; Sec. Cen. Bohemian Regional Nat. Cttee.; Deputy of Czech Nat. Council 1968-; Deputy to House of the People, Fed. Assembly 1969-71, mem. Presidium; Chair. Comm. for Agric. and Food, House of the People 1969-71; Chair. Cen. Bohemian Regional Nat. Cttee. 1971-; Order of Victorious February 1973. *Address:* Central Bohemian Regional National Committee, Prague, Czechoslovakia.

BURIN DES ROZIERS, Etienne; French diplomatist; b. 11 Aug. 1913, Paris; s. of André Burin des Roziers and Madeleine Heurteau; m. Jane d'Oilliamson 1950; two s. one d.; ed. Ecole Libre des Sciences Politiques, Faculties of Law and Letters, Univ. of Paris, and Univ. of Oxford. Head, French Del. to Int. Comm. of Enquiry on Former Italian Colonies 1947-48; Sub-Dir. of the Saar, Ministry of Foreign Affairs 1948-50; Atlantic Pact Del. 1950-52; Technical Adviser to Prime Minister 1953; Chargé d'affaires, Yugoslavia 1954-55; Deputy to French Resident in Morocco 1955-56; Consul-Gen., Milan 1956-58; Amb. to Poland 1958-62; Sec.-Gen. of the Presidency of the Repub. 1962-67; Amb. to Italy 1967-72; Perm. Rep. to Comm. of European Communities 1972-75; Conseiller d'État 1975-; Pres. Council Agence France-Presse 1976-; Commdr. de la Légion d'honneur, Croix de guerre, Médaille de la Résistance, other decorations. *Address:* 40 Quai des Célestins, 75004 Paris, France.

BURKE, Admiral Arleigh A., American naval officer; b. 19 Oct. 1901, Boulder, Colo.; s. of Oscar A. Burke and Claire Mokler Burke; m. Roberta Gorsuch 1923; ed. U.S. Naval Acad. and Univ. of Michigan; commissioned 1923, served all ranks to Rear-Admiral 1950; served 1939-45 war; Head of Research and Devt. Div., Bureau of Ordnance, Washington 1945; Chief of Staff to Commdr. Eighth Fleet in Atlantic 1946, to C.-in-C. Atlantic Fleet 1945-47; Dep. Chief of Staff to Commdr. Naval Forces, Far East; Commdr. Cruiser Div. Five; mem. Mil. Armistice Comm. under Commdr. Naval Forces, Far East 1951; Dir. Strategic Plans Div., Navy Dept. 1952; Commdr. Cruiser Div. Six 1954; Commdr. Destroyers Atlantic Fleet 1955; Chief of Naval Operations (with rank of Admiral) 1955-61, retd. 1961; Counsellor to Center for Strategic and Int. Studies, Georgetown Univ.; Dir. of numerous companies; Hon. D.Sc., Hon. LL.D., Hon. D.Eng.; Navy Cross; Legion of Merit (two gold stars with oak leaf cluster); Purple Heart; and others. *Leisure interests:* gardening, hunting, sailing. *Address:* 8624 Fenway Drive, Bethesda, Md. 20034, U.S.A. *Telephone:* 365-3101 (Office); 365-0906 (Home).

BURKE, Bernard Flood, PH.D.; American physicist and astrophysicist; b. 7 June 1928, Boston, Mass.; s. of Vincent Paul Burke and Clare Aloyse Brine; m. Jane Chapin Pann 1953; three s. one d.; ed. Mass. Inst. of Technology; member of staff, Carnegie Inst. of Washington 1953-65; Chair. Radio Astronomy Section, Carnegie Inst. of Washington, Dept. of Terrestrial Magnetism 1962-65; Prof.

of Physics, M.I.T. 1965-; Visiting Prof., Leiden Univ. 1971-72; Trustee Associated Univ. Inc. 1972-; Trustee and Vice-Chair. N.E. Radio Observatory Corpn. 1973-; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences; Fellow, American Acad. for Advancement of Science; Helen B. Warner Prize, American Astron. Soc. 1963, Rumford Prize, American Acad. of Arts and Sciences 1971. *Publications:* Microwave Spectroscopy 1953-54, Radio Noise from Jupiter 1955-61, Galactic Structure 1959, Very Long Baseline Interferometry 1968-; miscellaneous publs. in radio astronomy 1955-. *Leisure interests:* skiing, sailing, hiking, chamber music. *Address:* Room 26-335, Department of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); 10 Bloomfield Street, Lexington, Mass., U.S.A. (Home). *Telephone:* 617-253-2572 (Office); 617-862-8939 (Home).

BURKE, Kenneth; American writer; b. 5 May 1897, Pittsburgh, Pa.; s. of James Leslie Burke and Lillyan May Duva; m. 1st Lily Mary Batterham 1919, 2nd Elizabeth Batterham 1933; two s. three d.; ed. Ohio State and Columbia Univs.; research worker Laura Spelman Rockefeller Memorial 1926-27; music critic The Dial 1927-29; mem. staff Bureau of Social Hygiene 1928-29; Music Critic Nation 1934-36; Lecturer in Practice and Theory of Literary Criticism New School for Social Research 1937, Univ. of Chicago 1938, 1949-50, Kenyon Coll. 1950, Ind. Univ. 1952, 1958, Drew Univ. 1962, 1964, Bennington Coll. 1943-61, Pennsylvania State Univ. 1963; Regents Prof., Univ. of Calif. (Santa Barbara) 1964-65; Prof. Central Washington State Coll. 1966, Harvard 1967-68, Washington Univ. 1970-71, Wesleyan Univ. 1972; Andrew W. Mellon visiting Prof. of English, Univ. of Pittsburgh 1974; Walker-Ames visiting Prof. of English, Washington Univ. 1976; Guggenheim Fellowship 1935; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Letters, American Acad. of Arts and Sciences; Fellow Center for Advanced Study in Behavioral Sciences 1957-58; Hon. D.Litt., Bennington Coll., Rutgers Univ., Dartmouth Coll., Hon. D.Hum.Litt. (Fairfield Univ., Northwestern Univ., Univ. of Rochester); Brandeis Univ. Creative Arts Awards Comm. Award for Notable Achievements in the Arts 1967, award from Nat. Council on the Arts 1969, Horace Gregory Award, New School for Social Research 1970, Ingram Merrill Foundation Award in literature 1970; mem. Century Assn. *Publications:* The White Oxen 1924, Counter-Statement 1931, 1953, 1968, Towards a Better Life 1932, 1966, Permanence and Change—Anatomy of Purpose 1935, 1954, 1965, Attitudes Towards History—Vol. I Acceptance and Rejection, The Curve of History, Vol. II Analysis of Symbolic Structure 1937, 1959, 1961, The Philosophy of Literary Form-Studies in Symbolic Action 1941, 1957, revised edn. 1967, A Grammar of Motives 1945, 1962, 1969, A Rhetoric of Motives 1950, 1962, 1969, Book of Moments: Poems 15-54 1955, The Rhetoric of Religion 1961, 1970, Perspectives by Incongruity 1965, Terms for Order 1965, Language as Symbolic Action, Essays on Life, Literature and Method 1966, Collected Poems 15-67 1968, Complete White Oxen 1968, Dramatism and Development 1972; translator Thomas Mann's Death in Venice 1925, Emil Ludwig's Genius and Character 1927, and Emil Baumann's Saint Paul 1929. *Leisure interests:* trying to keep from becoming too unfit, punishing the piano, worrying about the military-industrial complex. *Address:* R.D.2, Andover, N.J. 07821, U.S.A. *Telephone:* (201) 347-3249.

BURKE, Richard, M.A.; Irish politician and administrator; b. 29 March 1932, New York, N.Y., U.S.A.; s. of David Burke and Elizabeth Kelly; m. Mary Freeley 1961; two s. three d.; ed. Christian Brothers, Thurles, Univ. College and Kings Inns, Dublin; teacher in Blackrock until 1969; mem. of the Dail for Dublin South Co. 1969-77; fmr. Chief Whip of Fine Gael; Shadow Minister for Posts and Telegraphs 1969-73; Minister for Educ. 1973-76; mem. Comm. European Communities, Commr. for Parliament, Consumer Affairs, Transport and Taxation 1977-. *Leisure interests:* music, golf. *Address:* Commission of the European Communities, 200 rue de la Loi, 1049 Brussels, Belgium.

BURKE, Samuel Martin, B.A. (HONS.), M.A., F.R.S.A.; Pakistani diplomatist; b. 3 July 1906, Martinpur; s. of K. D. Burke; m. Queenie Louise Burke; four d.; ed. Govt. Coll., Lahore, and School of Oriental Studies, London. Indian Civil Service 1931-47; District Officer and District and Sessions Judge; Pres. Election Tribunal, Punjab 1946; Pakistani Foreign Office 1948-49; served as Sec. to Pakistani Del. to Inter-Dominion Confs. with India 1948 and 1949; Counsellor to Pakistani High Comm. in London 1949-52; Minister in Washington 1952-53; led Special Missions to Dominican Republic and Mexico 1952; Chargé d'affaires, Rio de Janeiro 1953; mem. UN Cttee. on Contributions 1953-55; Deputy High Commr. for Pakistan in United Kingdom 1953; Minister to Sweden (concurrently to Norway, Denmark and Finland) 1953-56; Amb. to Thailand and Minister to Cambodia and Laos 1956-59; mem. Pakistani Del. to SEATO Council Meetings 1957, 1958, 1959; High Commr. in Canada 1959-61; led Special Mission to Argentina 1960; Prof. and Consultant in South Asian Studies, Dept. of Int. Relations, Univ. of Minnesota 1961-75; Founder, Burke Library, South Asia Collection, Hamline University; Sitara-i-Pakistan. *Publications:* Zafrulla Khan: The Man and his Career, Pakistan's Foreign Policy: An Historical Analysis, Mainsprings of Indian and Pakistani Foreign Policies. *Leisure interests:* cricket, riding, tennis. *Address:* 44 Roehampton Close, Roehampton Lane, London, S.W.15, England.

BURKILL, John Charles, SC.D, F.R.S.; British mathematician; b. 1 Feb. 1900, Holt; s. of H. R. Burkill; m. Margareta Braun 1928; one s. two d. (one deceased); ed. St. Paul's School, and Trinity Coll., Cambridge. Prof. of Pure Maths., Univ. of Liverpool 1924-29; Fellow, Lecturer and Tutor of Peterhouse, Cambridge 1929-67, Master of Peterhouse 1968-73; mem. Inst. of Advanced Study, Princeton 1947, Visiting Prof. Rice Inst. 1956, Tata Inst., Bombay 1959; Adams Prize 1949. *Publications:* mathematical books and papers. *Address:* 2 Archway Court, Barton Road, Cambridge, CB3 9LW, England.

BURKITT, Denis Parsons, C.M.G., F.R.S., M.D., F.R.C.S., F.R.C.S.I., F.R.C.P.I.; British medical research scientist; b. 28 Feb. 1911, Enniskillen; s. of James P. and Gwendoline (née Hill) Burkitt; m. Olive M. Rogers 1943; three d.; ed. Dublin Univ.; surgeon, R.A.M.C. 1941-46; joined H.M. Colonial Service, Uganda 1946, Govt. Surgeon and Lecturer in Surgery, Makerere Univ. Coll. Medical School 1946-64; Senior Consultant Surgeon, Ministry of Health, Uganda 1961-64; mem. Medical Research Council External Scientific Staff, Uganda 1964-66, London 1966-; Harrison Prize, Ear Nose and Throat Section, Royal Soc. of Medicine 1966, Stuart Prize, British Medical Assn. 1966, Arnott Gold Medal, Irish Hospitals and Medical Schools Assn. 1968, K. B. Judd Award, Sloan Kettering Inst., N.Y. 1969, Robert de Villiers Award, American Leukemia Soc. 1970, Walker Prize, Royal Coll. of Surgeons 1971, Paul Ehrlich-Ludwig Darmstaedter Prize (with Jan Waldenström, q.v.) 1972; Hon. D.Sc. (Univ. of E. Africa, Bristol Univ.) 1970; shared Albert Lasker Medical Award in Clinical Cancer Chemotherapy 1972, Gairdner Foundation Award 1973, British Medical Assn. Gold Medal. *Publications:* Treatment of Burkitt's Lymphoma (co-editor) 1967, Burkitt's Lymphoma (co-editor) 1970. *Leisure interests:* photography, carpentry. *Address:* St. Thomas's Hospital, London, SE1 7EH (Office); The Old House, Bussage, nr. Stroud, Glos., England. (Home).

BURN, Joshua Harold, M.D., F.R.S.; British pharmacologist; b. 6 March 1892, Barnard Castle, Co. Durham; m. 1st Margaret I. Parkinson 1920, 2nd Katherine F. Pemberton 1928, 3rd Elizabeth Haslam-Jones 1971; two s. four d.; ed. Barnard Castle School, Emmanuel Coll., Cambridge and Guy's Hospital; mem. staff Medical Research Council 1920-25; fmr. Prof. of Pharmacology, Univ. of London; Prof. of Pharmacology in Oxford Univ. 1937-59; Visiting Prof. Washington Univ. St. Louis, Missouri 1959-68; Emer. Prof. of Pharmacology, Univ. of Oxford; Emer. Fellow, Balliol Coll., Oxford; Hon. Fellow, Nat. Inst. of Sciences of India; Hon. Pres. Int. Union of Pharmacology; Hon. mem. Pharmaceutical Soc.; Hon. mem. Soc. of Pharmacology and Therapeutics of Argentine Medical Assn., British Pharmacological Society, Deutsche Pharmakologische Gesellschaft; mem. Deutsche Akademie der Naturforscher (Leopoldina); Hon. D.Sc. Yale Univ., Hon. M.D. Johannes Gutenberg Univ. Mainz, Dr. h.c. Paris Univ. Hon. D.Sc. (Bradford Univ.), Abraham Flexner Lecturer, Vanderbilt Univ. 1956, Nathanson Memorial Lecturer, Univ. of Southern Calif. 1956; Gairdner Int. Award 1959, Wellcome Gold Medal, British Pharmacological Soc. 1979. *Publications:* Biological Standardisation 1937, The Background of Therapeutics 1948, Practical Pharmacology 1952, Functions of Automatic Transmitters 1956, Drugs, Medicines and Man, Automatic Nervous System 1964, Our Most Interesting Diseases 1964. *Leisure interests:* walking, writing history. *Address:* 3 Squitchey Lane, Oxford, England. *Telephone:* Oxford 58209.

BURNET, Alastair (see Burnet, J. W. A.).

BURNET, Sir Frank Macfarlane, O.M., A.K., K.B.E., F.R.S., SC.D., F.R.C.P., F.R.A.C.P., F.A.C.P.; Australian scientist; b. 3 Sept. 1899, Traralgon, Victoria; s. of late Frank Burnet; m. 1st Linda Druce 1928 (died 1973), one s. two d.; m. 2nd Hazel Jenkin 1976; ed. Melbourne Univ. Resident Pathologist, Melbourne Hospital 1923-24; Beit Fellow for Medical research at Lister Inst., London 1926-27; Asst. Dir. Walter and Eliza Hall Inst. for Medical Research 1928-31 and 1934-44, Dir. 1944-65; Dunham Lecturer, Harvard Medical School 1944; Croonian Lecturer, Royal Soc. 1950; Herter Lecturer, Johns Hopkins Univ. 1950, Flexner Lecturer at Vanderbilt Univ. 1958; Chair. Board of Trustees, Commonwealth Foundation 1966-69; Foreign mem. Royal Swedish Acad. of Science 1957; Foreign Assoc. Nat.

Acad. of Sciences, U.S.A. 1954, Copley Medal Royal Soc. 1959, Nobel Prize for Medicine 1960; Pres. Australian Acad. of Sciences 1965-69, Hon. F.R.C.S.Eng. *Publications:* Biological Aspects of Infectious Disease 1940, Production of Antibodies 1949, Viruses and Man 1953, Principles of Animal Virology 1955, Enzyme, Antigen and Virus 1956, Clonal Selection Theory of Immunity 1959, Integrity of the Body 1962, Auto-Immune Diseases (with I. R. Mackay) 1963, Changing Patterns (autobiography) 1968, Cellular Immunology 1969, Immunological Surveillance 1970, Dominant Mammal 1970, Genes, Dreams and Realities 1971, Walter and Eliza Hall Institute 1915-1965 1971, Auto-immunity and Auto-immune Disease 1972, Intrinsic Mutagenesis 1974, Immunology 1976, Immunology, Aging and Cancer 1976, Endurance of Life 1978. *Address:* 48 Monomeath Avenue, Canterbury, Vic. 3126, Australia. *Telephone:* 836-4526.

BURNET, James William Alexander (Alastair); British journalist; b. 12 July 1928, Sheffield, Yorks.; s. of late Alexander and Schonaid Burnet; m. Maureen Sinclair 1958; ed. The Leys School, Cambridge, and Worcester Coll., Oxford. Sub-Editor and Leader Writer, Glasgow Herald 1951-58; Leader Writer The Economist 1958-62; Political Editor, Independent Television News 1963-64, rejoined ITN 1976-; Editor The Economist 1965-74; Editor Daily Express 1974-76; Contributor to TV current affairs programmes, This Week, Panorama, News at Ten, etc. *Address:* 43 Hornton Court, Campden Hill Road, London, W.8, England; and 33 Westbourne Gardens, Glasgow, W.2, Scotland. *Telephone:* 01-937 7563 (London); 041-339 8073 (Glasgow).

BURNETT, Most Rev. Bill Bendyshe, M.A., L.TH.; South African ecclesiastic; b. 31 May 1917, Koffiefontein; s. of Richard Evelyn Burnett and Louisa Martha Dobinson; m. 1945; two s. one d.; ed. Diocesan Coll., Rondebosch, Michaelhouse School, Rhodes Univ. Coll. and St. Paul's Coll., Grahamstown and Queen's Coll., Birmingham, U.K.; schoolmaster St. John's Coll., Umtata 1940; Army Service 1940-45; Deacon St. Thomas', Durban 1947; Chaplain Michaelhouse 1947-54; Vicar of Ladysmith 1954-57; Bishop of Bloemfontein 1956-67; Gen. Sec. S. A. Council of Churches 1967-69; Bishop of Grahamstown 1969-74; Archbishop of Cape Town 1974-. *Address:* Bishopscourt, Claremont, Cape Province, South Africa. *Telephone:* 71-2531.

BURNEY, Leroy Edgar, M.D., M.P.H.; American physician; b. 31 Dec. 1906, Burney, Ind.; s. of Robert E. Burney and Mabel C. Howell; m. Mildred Hewins 1932; one s. one d.; ed. Indiana and Johns Hopkins Univs.; joined U.S. Public Health Service 1932, established first mobile venereal disease clinic, in Brunswick, Ga. 1937-39; Asst. Chief, Division of States Relations 1943-44; detailed to U.S. Navy 1944; Dir. U.S. Public Health Service, District IV, New Orleans 1945; Sec. and State Health Commr., Ind. State Board of Health 1945-54; Asst. Surgeon-Gen. and Deputy Chief, Bureau of State Service, U.S. Public Health Service 1954-56; Surgeon-Gen. U.S. Public Health Service 1956-61; Pres. World Health Assembly 1958; Vice-Pres. Health Sciences, Temple Univ. 1961-70; fmr. Pres. Milbank Memorial Fund, Sedgwick Memorial Award, American Public Health Assn. 1975; Hon. D.Sc. (Jefferson, Woman's Medical Colls., Indiana Univ., De Pauw Univ.), Hon. LL.D. (Seton Hall Univ.). *Leisure interests:* golf and gardening. *Address:* Milbank Memorial Fund, 40 Wall Street, New York, N.Y. 10005, U.S.A. *Telephone:* Whitehall 4-4989.

BURNHAM, (Linden) Forbes Sampson, B.A., LL.B., Q.C., O.E., S.C., M.P.; Guyanese lawyer and politician; b. 20 Feb. 1923, Kitty; s. of James Ethelbert Burnham and Rachel Abigail Burnham (née Sampson); m. 1st Sheila Bernice Lataste 1951, three d.; m. 2nd Viola Victorine Harper 1967, two d.; ed. Kitty Methodist School, Central High School and Queen's Coll., British Guiana, London Univ. and Gray's Inn; called to the Bar 1948; Pres. Bar Assn. 1959; Queen's Counsel 1960; Senior Counsel 1966; Pres. W. Indian Students' Union, London 1947-48; Del. of Union of the Int. Union of Students' Congress, Prague 1947, Paris 1948; Co-founder People's Progressive Party 1949, Chair. 1949-55; mem. Georgetown Town Council 1952; Guyana Labour Union 1952-56, 1963-65, Pres. on leave 1965-; Minister of Educ. 1953; Founder and Leader People's Nat. Congress 1957-; Leader of Parl. Opposition 1957-64; Mayor of Georgetown 1959, 1964; Prime Minister British Guiana 1964-66, Guyana 1966-; Order of Excellence of Guyana, Order of the Nat. Flag (1st Class, Dem. Repub. of Korea). *Publication:* A Destiny to Mould 1970. *Leisure interests:* horse-riding, chess, swimming, fishing, hunting, farming. *Address:* Office of the Prime Minister, Public Buildings, Georgetown; The Residence, Vlissengen Road, Georgetown, Guyana (Home).

BURNS, Arthur Edward, PH.D.; American economist and former government official; b. 3 Sept. 1908, Oakland, Calif.; m. Marcella Eugenie Wyss 1933; ed. Univ. of California and George Washington Univ. Instructor, George Washington Univ. 1934-35, Asst. Prof. 1935-37, Assoc. Prof. 1937-40, Adjunct Prof. 1940-45, Prof. of Econs. 1945-74, Emeritus 1974-, Acting Dean, School of Govt. 1946-49, Dean 1949-57, Dean Graduate Council 1957-67; Dean Graduate School of Arts and Sciences 1967-74; Visiting Prof. Univ. of Calif. 1949, Univ. of Brazil 1952, Economist, Fed. Emergency Relief Admin. 1934-35; Economist and Asst. Dir. of Research, Works Progress Admin. 1935-40, Adviser 1941-42; Special Consultant, Office of Price Admin. 1942-43; Deputy Dir. Office of Materials and Facilities, War Food Admin. 1943-45; Consultant to White House 1957-60; Private Consultant 1973-. *Publications:* Modern Economics (with Neal and Watson) 1948, 1953, Arabic edn. 1960, Government Spending and Economic Expansion (with D. S. Watson) 1940, Federal Work, Security and Relief Programs (with E. A. Williams) 1941; numerous articles. *Address:* 4000 Massachusetts Avenue, N.W., Washington, D.C. 20016, U.S.A.

BURNS, Arthur F.; American government official and economist; b. 27 April 1904, Stanislau, Austria; m. Helen Bernstein 1930; two s.; ed. Columbia Univ. Instructor in Econs., Rutgers Univ. 1927-30, Asst. Prof. 1930-33, Assoc. Prof. 1933-43, Prof. 1943-44; Prof. of Econs. Columbia Univ. 1944-58, John Bates Clark Prof. of Econs. 1959-69; mem. Research Staff, Nat. Bureau of Econ. Research 1933-69, Dir. of Research 1945-53, Pres. 1957-67, Hon. Chair. 1968; Chair. President's Advisory Board on Econ. Growth and Stability 1953-56, President's Council of Econ. Advisers 1953-56, Cabinet Cttee. on Small Business 1956; mem. Advisory Council on Social Security Financing 1957-58; mem. President's Advisory Cttee. on Labor-Management Policy 1961-66; Counsellor to Pres. of U.S.A. 1969; Chair. Fed. Reserve Board 1950-78; U.S. Alt. Gov., IMF 1973-78; Senior Adviser Lazard Frères 1978-; mem. American Econ. Assn. (Pres. 1959), American Statistical Assn., American Acad. of Arts and Sciences, Acad. of Political Science (Pres. 1962-68), American Philosophical Soc., etc.; Jefferson Award 1976, several awards and numerous hon. degrees. *Publications include:* Production Trends in the United States since 1870 1934, Measuring Business Cycles (with W. C. Mitchell) 1946, Economic Research and the Keynesian Thinking of our Times 1946, Frontiers of Economic Knowledge 1954, Prosperity Without Inflation 1957, The Management of Prosperity 1966, Full Employment, Guideposts and Economic Stability (with P. A. Samuelson) 1967, The Defense Sector and the American Economy (with others) 1968, The Business Cycle in the Changing World 1969, Reflections of an Economic Policy Maker 1979. *Address:* Board of Governors of the Federal Reserve System, Washington, D.C. 20551, (Office); 2510 Virginia Avenue, N.W., Washington, D.C. 20037, U.S.A. (Home).

BURNS, George (Nathan Birnbaum); American comedian; b. 20 Jan. 1896, New York; m. Gracie Allen 1926 (deceased); one s. one d.; appeared regularly in vaudeville with wife Gracie Allen; made radio debut on the BBC; *Films include:* The Big Broadcast, 1932, International House 1932, Love in Bloom 1933, We're Not Dressing 1934, The Big Broadcast of 1938, 1938, Many Happy Returns, 1939, Honolulu, 1939, The Sunshine Boys, 1975, Oh God! 1977; TV Series: Burns and Allen Show 1950-58, George Burns Show, 1959-60, Wendy and Me 1964; produced TV series Mona McCluskey and is co-owner of the series, Mr. Ed.; has appeared in various concerts and nightclubs, including Carnegie Hall, February 29, 1976; Academy Award for Best Supporting Actor for The Sunshine Boys. *Publications:* I Love Her, That's Why, 1955, Living it Up, Or They Still Love Me in Altoona, 1976. *Address:* 720 N. Maple Drive, Beverly Hills, Calif. 90210, U.S.A.

BURNS, Norman, M.A.; American economist and educationist; b. 14 Nov. 1905, Versailles, Ohio; s. of Marley and Mabel B. Burns; m. Constance Albrech 1935; ed. Wittenberg Univ., Ohio, Yale Univ. and Univ. of Montpellier, France. Asst. Prof. of Econs., American Univ. of Beirut 1929-32; U.S. Govt. Service ■ Foreign Trade Economist, U.S. Tariff Comm., Dir. Foreign Service Inst. of State Dept., Deputy Dir. for Near East and South Asia, Int. Co-operation Admin., Econ. Adviser, UN Relief and Works Agency, Beirut, Dir. United States Operations Missions, Amman 1934-61; Pres. American Univ. of Beirut 1961-65; mem. Board of Govs., Middle East Inst., Washington 1967-; Hon. LL.D. (Wittenberg Univ.). *Publications:* Government Budgets of Middle East Countries 1956, Planning Economic Development in the Arab World 1959, Education in the Middle East 1965, The Challenge of Education in the Developing Countries 1973, The Energy Crisis and U.S. Middle East Policy 1973. *Leisure interests:* hiking and local history. *Address:* 3813 North 37th Street, Arlington, Va. 22207, U.S.A. *Telephone:* (703) 525-2724.

BURRELL, J. Earl, BS.CHEM.ENG.; American company executive; b. 7 Sept. 1919, Aurora, Ill.; s. of Fred W. Burrell and the late Rosa

(Greenman) Burrell; m. Margaret Macatee 1942; three s. three d.; ed. Michigan and Harvard Univs.; joined PPG Industries, Inc. as Chemical Eng., Research in Chem. Div., Barberton, Ohio 1941; Asst. to Vice-Pres. Operations, Chem. Div., Pittsburgh, Pa. 1956; Vice-Pres. Operations, Chem. Div. 1961; Vice-Pres., Gen. Man. Chem. Div. 1966; Exec. Vice-Pres., Operations 1975; Pres. and Chief Operating Officer, PPG Industries, Inc. 1976-. *Leisure interests:* golf, tennis. *Address:* 136 Devonwood Drive, Pittsburgh, Pa. 15241, U.S.A. *Telephone:* (412) 833-2218.

BURRENCHOBAY, Sir Dayendranath, K.B.E., C.M.G., C.V.O., B.SC.; Mauritian administrator; b. 24 March 1919; ed. Royal Coll., Curepipe and Imperial Coll., London Univ.; Graduate Apprentice with British Electricity Authority 1949-50; Educ. Officer, Mauritius 1951; successively Senior Educ. Officer, Chief Educ. Officer 1951-64; Perm. Sec. Ministry of Educ. and Cultural Affairs 1964-68; Perm. Sec. Ministry of External Affairs, Tourism and Emigration, and Prime Minister's Office 1968-76; Sec. to the Cabinet and Head of the Civil Service 1976-78; Acting Governor-General March 1978–; Chair. Central Electricity Board April 1968-. *Address:* Government House, Le Reduit, Mauritius.

BURRIS, Robert Harza, PH.D., D.SC.; American professor of biochemistry; b. 13 April 1914, Brookings, S. Dak.; s. of Edward Thomas Burris and Mable Harza Burris; m. Katherine Irene Brusse 1945; one s. two d.; ed. S. Dakota State Coll. and Univ. of Wisconsin. Research Asst., Univ. of Wis. 1936-40; Nat. Research Council Postdoctoral Fellow, Columbia Univ. 1940-41; Instructor in Bacteriology, Univ. of Wis. 1941-44, Asst. Prof. of Biochemistry 1944-46, Assoc. Prof. 1946-51, Prof. 1951-, Chair. Dept. of Biochemistry 1958-70; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Guggenheim Fellow 1954; Pres. American Soc. of Plant Physiologists 1960; Hon. D.Sc. (S. Dakota State Univ.) 1966; Merit Award of Botanical Soc. of America 1966; American Soc. of Plant Physiologists Stephen Hales Award 1968, Charles Reid Barnes Award 1977, Soc. for Industrial Microbiology Charles Thom Award 1977, American Soc. of Agronomy Edward W. Browning Award 1978. *Publications:* Manometric Techniques 1945; 238 scientific papers 1936-78. *Leisure interests:* photography, canoeing. *Address:* Department of Biochemistry, University of Wisconsin, Madison, Wis. 53706, U.S.A. *Telephone:* (608) 262-3042.

BURROUGHS, William Seward, B.A.; American writer; b. 5 Feb. 1914, St. Louis; s. of Perry Mortimer and Laura (Lee) Burroughs; m. Joan Vollmer 1945 (deceased); one s.; ed. Harvard Univ.; worked as bar-tender, private detective, factory hand, (pest) exterminator, newspaper reporter, advertising copy writer 1936-41; addicted to heroin 1944-58; moved to Mexico 1945; began writing 1949 (first work Junkie publ. 1953); travelled in Colombia, Peru, Ecuador and corresponded with Allen Ginsberg, q.v. (publ. as The Yage Letters) 1948-51; in Morocco 1951-57, Britain 1957-; adopted collage style of writing ("cutting up") 1960. *Publications include:* Junkie: Confessions of an Unredeemed Drug Addict 1953, The Naked Lunch 1959, The Exterminator (with Brion Gysin) 1960, The Soft Machine 1961, Minutes To Go 1961, The Ticket That Exploded 1962, The Yage Letters (with Allen Ginsberg) 1963, Dead Fingers Talk 1963, Nova Express 1964, The Job (with Daniel Odier) 1969, The Wild Boys 1971, Last Words of Dutch Schultz 1975, Electronic Revolution and Other Writings 1978. *Address:* c/o Harold Matson Co., 22 East 40th Street, New York, N.Y. 10016; and P.O. Box 215 Canal St., Station, New York, N.Y. 10013, U.S.A.

BURROWES, Norma Elizabeth, B.A.; British opera and concert singer; b. 24 April 1944, Bangor, Wales; d. of Henry and Caroline Burrowes; m. Steuart Bedford (q.v.) 1969; ed. Queen's Univ., Belfast, Royal Acad. of Music; début with Glyndebourne Touring Opera playing Zerlina in Don Giovanni 1969, début with Royal Opera House, Fiakermili in Arabella 1976; roles include Blöndchen in The Abduction from the Seraglio at Salzburg Festival and Paris Opera 1976; has sung with all the principal London orchestras and on BBC radio and television; numerous recordings; Order of Worshipful Co. of Musicians. *Leisure interests:* gardening, embroidery. *Address:* 50 Rochester Road, London NW1 9NG, England. *Telephone:* 01-485 7322.

BURROWS, Sir Bernard Alexander Brocas, G.C.M.G.; British fmr. diplomatist; b. 3 July 1910; m. Ines Walter 1944; one s. one d.; ed. Eton and Oxford Univ.; entered Foreign Service 1934; served Cairo 1938-45; Foreign Office 1945-50; Counsellor, Washington 1950-53; Political Resident in the Persian Gulf 1953-58; Amb. to Turkey 1958-63; Deputy Under-Sec. at the Foreign Office 1963-66; U.K. Perm. Rep., North Atlantic Council 1966-70; Dir.-Gen., Fed. Trust for Educ. and Research 1973-76. *Publication:* The Security of Western Europe (with C. Irwin) 1972. *Address:* Steep Farm, Petersfield, Hants, England. *Telephone:* Petersfield 2287.

BURSTYN, Ellen; American actress; b. 7 Dec. 1932, Detroit, Mich.; d. of John Austin and Coriene Marie (Hamel) Gillooly; m. 1st William C. Alexander, 2nd Paul Roberts, 3rd Neil Burstyn; one s.; ed. Cass Tech. High School, Detroit, Mich.; stage productions include: Fair Game 1957, Same Time Next Year 1975; Best Supporting Actress, The Last Picture Show (New York Film Critics Award, Nat. Soc. of Film Critics Award; Best Actress, Alice Doesn't Live Here Anymore (Acad. Award, British Acad. Award); Best Actress, Same Time Next Year (Tony Award, Drama Desk Award, Outer Critics Circle Award); numerous leading parts in films including: Goodbye Charlie 1964, For Those who Think Young 1965, Tropic of Cancer 1969, Alex in Wonderland 1970, The Last Picture Show 1971, The King of Marvin Gardens 1972, Thursday's Game (TV), 1973, The Exorcist 1973, Harry and Tonto 1974, Alice Doesn't Live Here Anymore 1975, Dream of Passion 1978, Same Time Next Year 1978. *Address:* c/o William Morris Agency, 1350 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

BURTICĂ, Cornel, PH.D.; Romanian politician and diplomatist; b. 3 Sept. 1931, Zegujani, Mehedinţi County; ed. Polytechnic Inst., Bucharest. Lecturer Polytechnic Inst., Bucharest 1956-62; Deputy to Grand Nat. Assembly 1961-65, 1975-; Counsellor Romanian Embassy, France 1963-66; Amb. to Italy 1967-69 (also accred. to Malta and Morocco); Minister of Foreign Trade 1969-72, 1978-; Prime Minister 1977-; Chair. Nat. Council Romanian Radio and Television 1972-76; mem. Cen. Cttee. Romanian Communist Party 1969-, Sec. 1972-78, alt. mem. Exec. Political Cttee. 1972-74, mem. 1974-, mem. Standing Bureau Exec. Political Cttee. 1977-. *Address:* Ministerul Comerţului Exterior şi Cooperării Economice Internaţionale, Bd. Republicii, Bucharest, Romania. *Telephone:* 30 40 50.

BURTON, Richard, C.B.E.; British stage and film actor; b. 10 Nov. 1925, Pontrhyd-y-fen, Glam.; m. 1st Sybil Williams (divorced), two d.; m. 2nd Elizabeth Taylor (q.v.) 1964 (divorced 1974, remarried 1975, divorced 1975); m. 4th Susan Hunt 1976; ed. Port Talbot Secondary School and Exeter Coll., Oxford; first appearance as Glan in Druid's Rest, Royal Court Theatre, Liverpool 1943; St. Martin's Theatre, London 1944; R.A.F. service 1944-47; Hon. Fellow, St. Peter's Coll., Oxford 1972. *Stage appearances include:* Richard in The Lady's Not For Burning 1949, Cuthman in The Boy With A Cart 1950, Hamlet, Sir Toby Belch, Henry V, Othello, Iago, Caliban with The Old Vic Company 1953-54, 1955-56; Time Remembered 1957, Camelot 1960, Hamlet 1964; in Doctor Faustus, Oxford 1966, Equus (N.Y.) 1976. *Films include:* The Last Days of Dolwyn, The Desert Rats, The Robe, Look Back In Anger, Ice Palace, Cleopatra, The V.I.P.s, Becket, The Night of the Iguana, The Sandpiper, The Spy who Came in from the Cold, Who's Afraid of Virginia Woolf, The Taming of the Shrew, Dr. Faustus, The Comedians, Boom, Candy, Where Eagles Dare, Staircase, Anne of the Thousand Days, Raid on Rommel, Villain, Under Milk Wood, Hammersmith is Out, The Assassination of Trotsky 1971, Bluebeard 1973, Massacre in Rome 1974, Brief Encounter 1974, The Klansman 1974, The Voyage 1974, Walk with Destiny (TV) 1974, The Heretic 1976, Equus 1977, Wild Geese 1978. *Address:* c/o Major D. Neville-Willing, 85 Kinnerton Street, London, S.W.1, England. *Telephone:* 01-235 4640.

BUSCH, August A., Jr.; American brewing executive; b. 28 March 1899; m. Gertrude Buholzer 1952; ed. Smith Acad; Gen. Supt. Anheuser-Busch Inc. 1924-26, Sixth Vice-Pres. and Gen. Man. 1926-31, Second Vice-Pres. and Gen. Man. 1931-34, First Vice-Pres. and Gen. Man. 1934-41, Pres. 1946-, Chair. 1956-77, Chief Exec. 1971-75; official of numerous other companies. *Address:* Anheuser-Busch Inc., 721 Pestalozzi Street, St. Louis, Mo. 63118, U.S.A.

BUSCH, Ernst; German actor; b. 22 Jan. 1900, Kiel; s. of Friedrich and Emma Busch; m. Irene Busch 1964; one s.; acted in Kaufmann von Berlin (Piscator), Die Mutter (Brecht-Eisler), Dreigroschenoper (Brecht), Galilei (Brecht), and in films, including Kühle Wampe; emigrated 1933-43; joined Int. Brigade in Spain; imprisoned by Nazis on return to Germany 1943; resumed career as actor 1945; joined Berliner Ensemble; Nat. Prize, 3rd Class 1949, 2nd Class 1956, 1st Class 1966, Vaterländischer Verdienstorden in Silver 1960, Gold 1965, Johannes-R.-Becher-Medaille in Gold 1965, Karl-Marx-Orden 1970, Lenin Peace Prize 1972. *Address:* Leonhard-Frank-Strasse 11, 111 Berlin, German Democratic Republic.

BUSCH, Rolf T.; Norwegian diplomatist; b. 15 Nov. 1920, Spydeberg; s. of Aksel Busch and Alette (née Tunby); m. Solveig Helle 1950; one s.; ed. Oslo Univ. and Nat. Defence Coll.; Deputy Judge 1946-47; entered Norwegian Foreign Service 1947; Ministry of Foreign Affairs 1947-50; Sec., Cairo 1950-52; Vice-Consul, New York 1952-54; Ministry of Foreign Affairs 1954-56; Nat. Defence Coll. 1956-57; First Sec., Norwegian Del. to NATO, Paris 1957-60;

Ministry of Foreign Affairs 1960-65; Counsellor and Deputy Perm. Rep. Norwegian Del. to NATO, Paris and Brussels 1965-70; Dir.-Gen. Ministry of Foreign Affairs 1970-; Perm. Rep. to North Atlantic Council 1971-77; Amb. to Federal Repub. of Germany 1977-; Officer 1st Class, Norwegian Order of St. Olav, Officer, Order of the Nile, Commdr. with Star, Iclandic Order of the Falcon. *Address:* Embassy of Norway, Bonn-Bad Godesberg, Gotenstrasse 163, Federal Republic of Germany; Hafrsfjordgt. 2, Oslo, Norway. *Telephone:* 56-64-39 (Oslo).

BUSH, Alan, D.MUS. (LOND.); British composer, conductor and pianist; b. 22 Dec. 1900, London; s. of Alfred Walter Bush and Alice Maud Bush (née Brinsley); m. Nancy Rachel Head 1931; three d. (one deceased); ed. Highgate School, Royal Acad. of Music and Humboldt Univ., Berlin; Prof. of Composition, Royal Acad. of Music 1925-78; Fellow 1938-, Lecturer on History of Music 1936-38; served army 1941-45; Chair. Composers' Guild of G.B. 1947-48; Pres. Workers' Music Assen. 1941-; has conducted leading orchestras in Europe and the U.S.S.R. and appeared frequently as pianist and lecturer; Corresp. mem. German Acad. of Arts 1958; Carnegie Award for String Quartet 1924, Arts Council Opera Prize 1951, Handel Prize 1962; D.Mus. h.c. (Dunelm) 1971. *Works include:* Choral: Winter Journey 1946, Ballad of Freedom's Soldier 1953, Alps and Andes of the Living World 1968; Orchestral: Dance Overture 1935, Piano Concerto 1937, First Symphony 1940, English Suite 1946, Violin Concerto 1948, Nottingham Symphony 1949, Concert Suite for 'Cello 1952, Dorian Passacaglia and Fugue 1959, Byron Symphony 1960, Variations, Nocturne and Finale for Piano and Orchestra 1962, Partita Concertante 1964, Scherzo (for Wind Orchestra, with Percussion) 1969, Africa (for Piano and Orchestra) 1971, Concert-Overture for an Occasion 1971, Liverpool Overture 1973; Chamber music: Dialectic (for String Quartet) 1929, Concert Piece (for Cello and Piano) 1936, Lyric Interlude (for Violin and Piano) 1944, Three Concert Studies (for Piano Trio) 1947, Prelude, Air and Dance (for Violin, String Quartet and Percussion) 1963, Suite (for Two Pianos) 1967, Time Remembered (for Chamber Orchestra) 1969, Serenade (for String Quartet) 1969, Suite of Six (for String Quartet), Sonata for Recorders and Piano 1975, Sonatina for Viola and Piano 1978; Piano solo: Prelude and Fugue 1927, Relinquishment 1928, Le Quatorze Juillet 1943, Nocturne 1957, Sonata in A Flat 1970, Letter Galliard, 24 Preludes for Piano 1976; Operatic: Wat Tyler 1950, Men of Blackmoor 1955, The Sugar Reapers 1963, Joe Hill: The Man Who Never Died 1967; Operas for Schools: The Press Gang 1946, The Spell Unbound 1953, The Ferryman's Daughter 1961; Vocal solo: Song-Cycle Voices of the Prophets (for Tenor and Piano) 1953, Song-Cycle The Freight of Harvest (for Tenor and Piano) 1969, Song Cycle Life's Span (for Mezzo-Soprano and Piano) 1974, Song Cycle Woman's Life 1977, Song Cycle De Plenos Poderes to Poems by Pablo Neruda 1977. *Publication:* Strict Counterpoint in Palestrina Style. *Leisure interests:* walking, foreign travel. *Address:* 25 Christchurch Crescent, Radlett, Herts., England. *Telephone:* Radlett 6422.

BUSH, Dorothy Vredenburgh; American politician; b. 8 Dec. 1916, Baldwyn, Miss.; d. of Will Lee McElroy and Lany Holland McElroy; m. 1st Peter Vredenburgh, 1940 (deceased); one step s. (deceased); 2nd John W. Bush 1962; ed. George Washington Univ. and Miss. State Coll. for Women; Sec. to Dir. of Tenn. Coal, Iron and Rail Road Co. 1937-40; Asst. Sec. Young Democrats of America 1941, Vice-Pres. 1943-48, Acting Pres. 1944; Sec. Democratic Nat. Cttee. 1944-; Democratic Nat. Conventions 1944, 1948, 1952, 1956, 1960, 1964, 1968, 1972; Dir. Coastal Caribbean Oils & Minerals Ltd., Pancoastal Inc.; mem. Nat. Fed. of Business and Professional Women. *Address:* Democratic National Committee, 1625 Massachusetts Avenue, N.W., Washington, D.C. 20036 (Office); Commodore Club II, Apartment 109, 222 Harbour Drive, Naples, Fla. 33940, U.S.A. (Home).

BUSH, George; American diplomatist; b. 12 June 1924, Milton, Mass.; s. of Prescott S. and Dorothy Walker Bush; m. Barbara Pierce Bush 1945; four s. one d.; ed. Phillips Acad., Andover, Mass. and Yale Univ.; naval carrier pilot 1942-45; Co-founder Zapata Petroleum Corpn. 1953; Co-founder-Pres. Zapata Off-Shore Co. 1954-66; Rep. from 7th district, Texas, House of Reps. 1966; Perm. Rep. to UN 1970-73; Chair. Republican Nat. Cttee. 1973-74; Head U.S. Liaison Office, Peking 1974-75; Dir. of C.I.A. Nov. 1975-76; Chair. Exec. Cttee. First Nat. Int. Bank, Houston 1977-; Dir. First Int. Bancshares Inc., Texasgulf Inc., Purolator Inc., First Int. Bankshares Ltd., London. *Address:* 710 North Post Oak Road, Suite 208, Houston, Texas 77024, U.S.A.

BUSH, John Nash Douglas, M.A., PH.D.; American university professor; b. 21 March 1896, Morrisburg, Canada; s. of Dexter C. and Mary E. Bush; m. Hazel Cleaver 1927; one s.; ed. Toronto and Harvard Univs.; Sheldon Fellow, Harvard 1923-24; Instructor, Harvard 1924-27; Asst. Prof. of English, Univ. of Minn. 1927-28, Assoc. Prof. 1928-31, Prof. 1931-36; Guggenheim Fellow 1934-35; Assoc. Prof., Harvard 1936-37, Prof. of English 1937-57, Gurney Prof., Harvard 1957-66; mem. American Philosophical Soc.; Pres. Modern Humanities Research Assen. 1955; corresp. Fellow, British Acad.; Hon. Litt.D. (Tufts, Oberlin, Merrimack, Swarthmore Colls., Harvard, Princeton, Mich. State, Toronto Univs., Boston Coll.), L.H.D. (S. Ill. Univ. and Marlboro Coll.). *Publications:* Mythology and the Renaissance Tradition in English Poetry 1932, 1963, Mythology and the Romantic Tradition in English Poetry 1937, 1969, The Renaissance and English Humanism 1939, Paradise Lost in Our Time 1945, English Literature in the Earlier Seventeenth Century (Oxford History of English Literature) 1945, 1962, Science and English Poetry 1950, Classical Influences in Renaissance Literature 1952, English Poetry: the Main Currents from Chaucer to the Present 1952, John Milton 1964, Prefaces to Renaissance Literature 1965, John Keats 1966, Engaged and Disengaged 1966, Pagan Myth and Christian Tradition in English Poetry 1968, Matthew Arnold 1971, Jane Austen 1975; Editor: The Portable Milton 1949, Tennyson: Selected Poetry 1951, Keats: Selected Poems and Letters 1959, Shakespeare's Sonnets (with A. Harbage) 1961, Complete Poetical Works of Milton 1965, Variorum Commentary on the Poems of John Milton Vol. I 1970, Vol. 2 (with A. S. P. Woodhouse and E. Weismiller) 1972. *Address:* 3 Clement Circle, Cambridge, Mass. 02138, U.S.A. *Telephone:* 876-9548.

BUSHELL, John Christopher Wyndowe, C.M.G.; British diplomatist; b. 27 Sept. 1919; ed. Winchester Coll. and Cambridge Univ.; R.A.F. 1939-45; Foreign Office 1945; British Embassy, U.S.S.R. 1946, Italy 1948; Foreign Office 1951; NATO Defence Coll. 1953; Foreign Office 1954; Deputy Sec.-Gen. Baghdad Pact Org. (later CENTO), Baghdad and Ankara 1957; Foreign Office 1959; Counsellor and Political Adviser to C.-in-C. Middle East Command, Aden 1961; Counsellor and Head of Chancery, del. to NATO 1964; seconded to Cabinet Office 1968; Minister and Deputy Commdt., British Mil. Govt., Berlin 1970; Amb. to Repub. of Viet-Nam 1974-75; sabbatical year, SOAS, London Univ. 1975-76; Amb. to Pakistan 1976-79. *Address:* c/o Lloyds Bank Ltd., 39 Piccadilly, London, W.1., England.

BUSTAMANTE Y RIVERO, José Luis; Peruvian judge; b. 15 Jan. 1894; ed. Univs. of Arequipa and Cuzco; Mem. Bars of Arequipa 1918, Cuzco 1918, Puno 1926; Legal practice 1918-34; Substitute Judge and Deputy Public Prosecutor, Superior Court of Arequipa 1920-34; mem. Bar of Lima 1956, Legal Practice 1956-60, Dean of Lima Bar 1960, now Hon. mem.; Teacher of American Archaeology, Univ. of Arequipa 1921, Peruvian Social Geography 1921, Modern Philosophy (Asst. Prof.) 1921, Asst. Prof. in Legal Procedure 1927, Prof. of Civil Law 1930-34; mem. Arequipa City Council 1921-24; Minister of Justice and Educ., Peru 1930-31; Minister to Bolivia 1934-38, to Uruguay 1939-42; Amb. to Bolivia 1942-45; Pres. of Peru 1945-48; mem. Consultative Comm. of Ministry of Foreign Affairs 1960; Judge, Int. Court of Justice, The Hague 1961-70, Pres. Int. Court of Justice 1967-70; mem. Peruvian Soc. of Int. Law, Nat. Acad. of Law and Political Sciences, Peruvian Acad. of Language, Lima, Affil. Royal Spanish Acad. of Language, Madrid; Hon. mem. Inter-American Bar Assen., Washington; mem. Francisco de Vitoria Inst. of Int. Law and Hispano-Luso-Americano-Filipino Inst. of Int. Law, Madrid; Corresp. mem. Colombian and Uruguayan Acads. of Language. *Publications include:* Organización y procedimientos de la Justicia Militar en el Perú 1918, Proyecto de ley de Juzgados de Paz, con exposición de motivos 1919, El laudo arbitral sobre Tacna y Arica 1929, La Teoría del abuso del Derecho 1932, Las Transformaciones del Contrato Civil 1935, Una visión del Perú 1941, Ensayo histórico sobre Arequipa 1941, El Tratado de Derecho Civil Internacional de 1940 de Montevideo 1942, La O.N.U. en el Palacio de Chaillot 1952, Panamericanismo e Ibero-americanismo 1953, La subestimación del Derecho en el mundo moderno 1954, Las nuevas Concepciones Jurídicas sobre el alcance del mar territorial 1955, Las clases sociales en el Perú 1959. *Address:* c/o Ministerio de Justicia, Lima, Peru.

BUTCHER, Willard Carlisle; American banker; b. 25 Nov. 1926, Bronxville, N.Y.; s. of Willard F. and Helen Calhoun Butcher; m. 1st Sarah C. Payne 1949 (died 1955), 2nd Elisabeth Allen 1956 (died 1978); one s. three d.; ed. Scarsdale High School, N.Y., Middlebury Coll., Vt. and Brown Univ., R.I.; joined the Chase Manhattan Bank 1947, Asst. Vice-Pres. 1956, Vice-Pres. 1958, Senior Vice-Pres. 1960, assigned to Int. Dept. 1968, Exec. Vice-Pres. in charge of Int. Dept. 1969, Vice-Chair. Jan. 1972, Pres. Oct. 1972. *Leisure interests:* golf, sailing. *Address:* The Chase Manhattan Bank N.A., One Chase Manhattan Plaza, New York, N.Y. 10015 (Office); 39 Trail's End Road, Wilton, Conn. 06897, U.S.A. (Home). *Telephone:* (212) 552-7251 (Office).

BUTEMENT, William Alan Stewart, C.B.E., B.SC., D.SC., F.I.E.E., F.INST.P., F.A.I.P., F.I.R.E.E., F.T.S.; Australian scientist; b. 18 Aug. 1904, Masterton, New Zealand; s. of Dr. William Butement; m. Ursula Florence Alberta Parish 1933; two d.; ed. Scots Coll., Sydney, Australia, Univ. Coll. School, Hampstead and Univ. Coll., London; Scientific Officer, War Office 1928-39; Asst. Dir. Scientific Research, Ministry of Supply 1939-47; First Chief Supt., Research Establishment and Rocket Range, Woomera, Australia 1947-49; Chief Scientist, Australian Dept. of Supply in charge Australian Defence Science 1949-66; Dir. Plessey Pacific 1967-. *Publication:* Precision Radar 1945-46. *Leisure interests:* amateur radio transmission, fishing. *Address:* 5A Barry Street, Kew, Victoria, Australia. *Telephone:* 868375.

BUTENANDT, Adolf Friedrich Johann, D.PHIL.; German physiological chemist; b. 24 March 1903, Bremerhaven-Lehe; s. of Otto Butenandt and Wilhelmine Butenandt (née Thomfohrde); m. Erika von Ziegner 1931; two s. five d.; ed. Oberrealschule Bremerhaven, Univs. of Marburg and Göttingen; Scientific Asst. Chemical Inst., Göttingen Univ. 1927-30, Dozent in organic and biological chemistry 1931, leader organic and biological chemistry laboratories 1931-33; Prof. of Chemistry, Dir. Organic Chemistry Inst., Danzig Inst. of Technology 1933-36; Dir. Kaiser Wilhelm Inst. of Biochemistry, Berlin-Dahlem (later at Tübingen) (now Max Planck Inst. of Biochemistry, Munich) 1936-72; Prof. of Physiological Chemistry, Munich Univ. 1956-72; Prof. Emer. 1972-; Pres. Max-Planck Soc. 1960-72; Hon. Pres. Max-Planck Soc. 1972; Foreign mem. Royal Soc. (U.K.) 1968; Nobel Prize for Chem. 1939, Orden Pour le Mérite (Arts and Sciences) 1962, Österreichisches Ehrenzeichen für Wissenschaft und Kunst 1964, Commdr. Légion d'honneur 1969, Commdr. Ordre des palmes académiques 1972, Adolf-von-Harnack-Medaille, Max-Planck-Soc. 1973; Foreign mem. Acad. of Sciences, Paris 1974. *Publications:* Biochemie der Wirkstoffe (Sexualhormone, Genchemie, Insektenphysiologie); numerous articles in Hoppe-Seyler's Zeitschrift für Physiologische Chemie, Chemische Berichte, Zeitschrift für Naturforschung, etc. *Address:* Marsopstrasse 5, 8 Munich 60, Federal Republic of Germany (Home). *Telephone:* 885490 (Home).

BUTHELEZI, Chief Gatsha, B.A.; South African (Zulu) leader and politician; b. 27 Aug. 1928, Mahlabatini; s. of late Chief Mathole Buthelezi and Princess Magogo; m. Irene Audrey Thandekile Mzila 1952; three s. four d.; ed. Adams Coll., Fort-Hare Univ.; installed Chief of Buthelezi Tribe 1953; assisted King Cyprian in admin. of Zulu people 1953-68; elected leader of Zululand territorial authority 1970; Chief Minister of KwaZulu 1972-; Leader of S.A. Black Alliance 1978-; Hon. LL.D. (Univ. of Zululand); Kt. Commdr. Star of Africa (Liberia). *Address:* Private Bag X01, Ulundi 3838, KwaZulu. South Africa. *Telephone:* Ulundi 1/2/3.

BUTLER, Clifford Charles, PH.D., F.R.S.; British physicist; b. 20 May 1922, Reading, Berks; s. of Charles and Olive Butler; m. Kathleen Betty Collins 1947; two d.; ed. Reading Univ.; Asst. Lecturer in Physics, Manchester Univ. 1945-47, Lecturer 1947-53; Reader in Physics, Imperial Coll., London 1953-57, Prof. 1957-70, Head, Dept. of Physics 1963-70; Dir. Nuffield Foundation 1970-75; Vice-Chancellor, Loughborough Univ. of Technology 1975-; Sec.-Gen. Int. Union of Pure and Applied Physics 1963-72, First Vice-Pres. 1972-75, Pres. 1975-78; Chair. Council for the Educ. and Training of Health Visitors 1977-; Hon. D.Sc (Reading Univ.) 1976. *Publications:* scientific papers on cosmic rays and high energy physics. *Address:* University of Technology, Loughborough, Leicestershire, LE11 3TU, England (Office). *Telephone:* 0509-63171.

BUTLER, Frederick Guy, M.A., D.LITT.; South African poet and university professor; b. 1918, Cradock, Cape Province; s. of E. C. Butler and Alice E. (née Stringer) Butler; m. Jean Murray Satchwell 1940; three s. one d.; ed. Rhodes Univ., Grahamstown, and Brasenose Coll., Oxford; war service Egypt, Lebanon, Italy, U.K. 1940-45; Oxford 1945-47; lecturer in English, Univ. of Witwatersrand 1948-50; Prof. of English, Rhodes Univ. 1952-; Editor New Coin (poetry quarterly). *Publications:* Stranger to Europe (poems) 1952, 1960, The Dam (play) 1953, The Dove Returns (play) 1956, A Book of South African Verse 1959, South of the Zambesi (poems) 1966, Cape Charade (play) 1968, When Boys were Men 1969, Take Root or Die (play) 1970, The 1820 Settlers (history) 1974, Selected Poems 1975, Karoo Morning (autobiography) 1977, Songs and Ballads 1978. *Address:* c/o Rhodes University, Grahamstown, South Africa. *Telephone:* 3823.

BUTLER, Michael; American financier; b. 26 Nov. 1926, Chicago; ed. Univ. of Colorado; Pres. Butler Communications Corpn.; Chair. Natoma Productions Inc., Talisman Co., Michael Butler Associates; fmr. Vice-Pres. Butler Co.; Exec. Vice-Pres. and Dir. Butler Engineering & Construction, Butler Overseas; Dir. Butler Paper Corpn., Int. Sports Core, J. W. Butler Paper Co. of Chicago, Butler Paper Co., Basic Investment Corpn., Intrafi, Overseas Bank Ltd., Drake Oak Brook Hotel, Oak Brook Landscaping Co., Oak Brook Utility, Ondine Inc.; frmrly. Chancellor, Lincoln Acad. of Ill.; Pres. Org. of Econ. Devt., Ill. Sports Council; Commr. Chicago Regional Port District; Special Adviser on India and Middle East Affairs to the late Senator John F. Kennedy; World Producer of Hair, Catonsville 9; Co-Producer of Lenny; mem. Chicago Historical Soc., Nat. Geographic Inst., Oceanographic Inst.; Order of the Sword and Cutlass, Order of Lincoln, Order of Colonial Wars. *Address:* Natoma, Oak Brook, Ill. 60521, U.S.A.

BUTLER, Reg(inald Cotterell), A.R.I.B.A.; British sculptor; b. 28 April 1913; ed. Hertford Grammar School; Lecturer, Architectural Assn. School of Architecture, London 1937-39; Technical Editor, Architectural Press 1946-51; Gregory Fellow in Sculpture, Univ. of Leeds 1951-53; First one-man show, London 1949; Winner Int. Competition, The Unknown Political Prisoner 1953; Retrospective exhbn. J. B. Speed Art Museum, Louisville, U.S. 1963, Pierre Matisse Gallery, New York; Assoc., Acad. Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. *Publication:* Creative Development 1962. *Address:* Ash, Berkhamsted Place, Berkhamsted, Hertfordshire, England (Studio). *Telephone:* Berkhamsted 2933.

BUTLER OF SAFFRON WALDEN, Baron (Life Peer), cr. 1965, of Halstead; **Richard Austen Butler,** K.G., P.C., C.H., M.A.; British politician; b. 9 Dec. 1902, Attock Serai, India; s. of late Sir Montague S. D. Butler, K.C.S.I.; m. 1st Sydney Courtauld 1926 (died 1954), three s. one d.; m. 2nd Mollie Courtauld (née Montgomerie) 1959; ed. Marlborough and Pembroke Coll., Cambridge; Fellow Corpus Christi Coll., Cambridge 1925-29; Conservative M.P. for Saffron Walden Div. of Essex 1929-65; Parl. Private Sec. to the Sec. of State for India 1931 and Under-Sec. of State for India 1932-37; Parl. Sec. to Minister of Labour 1937-38; Under-Sec. for Foreign Affairs 1938-41, Pres. Board of Educ. 1941-44, Minister of Educ. 1944-45; Minister of Labour and Nat. Service May-July 1945; Chancellor of the Exchequer 1951-55; Lord Privy Seal and Leader of the House of Commons 1955-57; Home Secretary, Lord Privy Seal and Leader of the House of Commons 1957-59; Home Sec., Leader of the House of Commons and Chair. of the Conservative Party 1959-61; Home Sec. 1961-62; Cabinet Minister charged with overseeing of Common Market negotiations 1961, Minister responsible for Central African Fed. 1962-Oct. 1963; Deputy Prime Minister and First Sec. of State July 1962-Oct. 1963; Sec. of State for Foreign Affairs Oct. 1963-64; Master of Trinity Coll., Cambridge 1965-78; fmr. Chair., Conservative Party Research Dept.; Dir. Courtaulds Jan. 1946-51, Dec. 1965-69; Chair. Home Office Cttee. on Mentally Abnormal Offenders 1973-75; Pres. Royal Soc. of Literature; Rector Glasgow Univ. 1956-59; High Steward Cambridge Univ. 1958-66; High Steward of City of Cambridge 1963-; Chancellor, Sheffield Univ. 1960-, Univ. of Essex 1962-; numerous hon. degrees. *Publications:* The Responsibilities of Education 1969, The Art of the Possible (autobiography) 1971, The Conservatives: a History. From Their Origins to 1965 (editor) 1977. *Address:* House of Lords, London, S.W.1.; and Spencers, Great Yeldham, Essex, England.

BUTLIN, Sir William Edmund, Kt., M.B.E.; retired British holiday camp proprietor; b. 29 Sept. 1899; m. 1st Dorothy Cheriton (died 1959), 2nd late Norah Faith Cheriton (divorced 1975), 3rd Sheila Devine 1976; ed. Canada and England; Chair. and Man. Dir. Butlin's Ltd. 1936-68, Pres. 1972-; Pres. Vaudeville Golfing Soc.; Companion Grand Order of Water Rats; Elder Statesman, Variety Club of Great Britain; Int. Vice-Pres. Variety Club; Statesman, Variety Club of Jersey. *Address:* Butlin Building, 441 Oxford Street, London, W.1, England. *Telephone:* 01-629 6616.

BUTOR, Michel; French lecturer and writer; b. 14 Sept. 1926, Mons-en-Baroeul, Nord; s. of Emile Butor and Anne Brajeux; m. Marie-Josephe Mas 1958; four d.; ed. Univ. of Paris; teacher at Sens (France) 1950, Minieh (Egypt) 1950-51, Manchester (England) 1951-53, Salonica (Greece) 1954-55, Geneva (Switzerland) 1956-57; Visiting Prof. Bryn Mawr and Middlebury, U.S.A. 1960, Buffalo, U.S.A. 1962, Evanston, U.S.A. 1965, Vincennes (France) 1969, Albuquerque, U.S.A. 1969-70, Nice 1970-73, Seattle, Albuquerque and Middlebury, U.S.A. 1973-74, Nice and Geneva 1974-75, Geneva 1975-78; Prix Felix Féneon 1957, Prix Renaudot 1957, Grand prix de la critique littéraire 1960. *Publications:* Novels: Passage de Milan 1954, L'emploi du temps 1956, La modification 1957, Degrés 1960, Intervalle 1973; Essays: Le Génie du lieu 1958, Répertoire 1960, Histoire extraordinaire 1961, Mobile 1962, Réseau aérien 1963, Description de San Marco 1963, Les oeuvres d'art imaginaires chez Proust 1964, Répertoire II 1964, Portrait de l'artiste en jeune

singe 1967, Répertoire III 1968, Essais sur les essais 1968, Les mots dans la peinture 1969, La rose des vents 1970, Le génie du lieu II 1971, Dialogue avec 33 variations de L. Van Beethoven 1971, Répertoire IV 1974, Matière de rêves 1975, Second sous-sol 1976, Troisième dessous 1977, Boomerang 1978; Poetry: Illustrations 1964, 6,801.000 litres d'eau par second 1965, Illustrations II 1969, Travaux d'approche 1972, Illustrations III 1973, Illustrations IV 1976. *Leisure interest:* teaching. *Address:* Aux Antipodes, Chemin de Terra Amata, 23 boulevard Carnot, 06300 Nice, France. *Telephone:* (93) 897118.

BUTTERFIELD, Alexander P., D.F.C., M.S.; American air service executive and fmr. public official; b. 6 April 1926, Pensacola, Fla.; s. of Admiral Horace Butterfield; m. Charlotte Mary Maguire; three c.; ed. Univ. Coll. Los Angeles, Univ. of Maryland, George Washington Univ. and Nat. War Coll.; served with U.S. Air Force 1949-69; pilot; promoted to rank of Col.; Operations Officer McGhee-Tyson Base, Knoxville, Tenn.; Commdr. fighter squadron Kadena Base, Okinawa; Commdr. low and medium level air reconnaissance operations, S.E. Asia; F-111 Project Officer and Senior Defence Dept. Rep., Australia; staff positions include Academic Instructor, Air Force Acad., Senior Aide to C.-in-C. Pacific Air Forces, Policy Planner, Pentagon, Mil. Asst. to Special Asst. to Sec. of Defence; Deputy Asst. to Pres. Nixon 1969-73; Administrator Fed. Aviation Admin. 1973-75; lecturer, independent consultant 1975-76; Exec. Vice-Pres. Int. Air Service Co. Ltd. 1977-; mem. Sky Blazers acrobatic team; Legion of Merit and other awards. *Address:* International Air Service Co. Ltd., 1710 Gilbreth Road, Burlingame, Calif. 94010 (Office); 3 Brent Court, Menlo Park, Calif. 94025, U.S.A. (Home).

BUTTERFIELD, Sir Herbert, Kt., M.A., F.B.A.; British historian; b. 7 Oct. 1900, Oxenhope, Keighley, Yorks.; s. of Albert Butterfield and Ada Mary Buckland; m. Edith Joyce (Pamela) Crawshaw 1929; three s. (one deceased); ed. Trade and Grammar School, Keighley and Peterhouse, Cambridge. Fellow of Peterhouse 1923-55, Master 1955-68, Hon. Fellow 1968-; Visiting Fellow, Univ. of Princeton 1924-25; Lecturer in History, Cambridge 1930-44; Editor Cambridge Historical Journal 1938-52; Prof. of Modern History, Cambridge Univ. 1944-63, Regius Prof. 1963-68, Vice-Chancellor 1959-61; Foreign Hon. mem. American Acad. Arts and Sciences; Hon. mem. Royal Irish Acad.; Pres. Historical Assen. 1955-58; mem. Admin. Board Int. Assen. of Univs. 1960-65, Comm. on Higher Educ. in Ireland 1960-68, Court of Govs., L.S.E. 1961-68, Advisory Council on Public Records 1962-69, Cttee. Inst. of Historical Research 1963-68; Gifford Lecturer, Glasgow Univ. 1965-67; Hon. Vice-Pres. Royal Historical Soc. 1967; Hon. LL.D. (Aberdeen) 1952, Hon. D.Litt. (Dublin) 1954, (Sheffield) 1962, (Hull) 1963, (Warwick) 1967, (Bonn) 1968, Hon. D.Lit. (Belfast) 1955, Hon. Litt.D. (Harvard) 1956, (Columbia) 1956, (Hong Kong) 1961, (Manchester) 1966, (London) 1968, (Bradford) 1974. *Publications:* The Historical Novel 1924, The Peace Tactics of Napoleon, 1806-8 1929, The Whig Interpretation of History 1931, (ed.) Select Documents of European History, Vol. III, 1715-1920 1931, Napoleon (Great Lives) 1939, The Statecraft of Machiavelli 1940, The Englishman and His History 1944, Inaugural Lecture on the Study of Modern History 1944, The Origins of Modern Science 1300-1800 1949, George III, Lord North, and The People 1779-1780 1949, Christianity and History 1949, History and Human Relations 1951, Riddell Memorial Lectures on Christianity in European History 1951, Liberty in the Modern World 1952, Beckly lecture Christianity, Diplomacy and War 1953, Man on His Past 1955, George III and the Historians 1957, International Conflict in the Twentieth Century 1960, The Universities and Education Today 1962, (ed. with Martin Wright) Diplomatic Investigations 1966, Sincerity and Insincerity in Charles James Fox 1972, The Discontinuities between the Generations in History 1972, Writings on Christianity and History 1979. *Leisure interest:* music. *Address:* 26 High Street, Sawston, Cambridge, CB2 4BG, England. *Telephone:* Cambridge 833322.

BUTTERFIELD, Sir (William) John (Hughes), D.M., M.D., F.R.C.P., F.A.C.P.; British physician; b. 28 March 1920, Birmingham; s. of the late William Hughes Butterfield and of Doris North (fmrly. Butterfield); m. 1st Ann West Sanders 1946 (died 1948); m. 2nd Isabel-Ann Foster Kennedy 1950; three s. one d.; ed. Solihull School, Exeter Coll. Oxford, Johns Hopkins Medical School; Royal Army Medical Corps 1946-48; scientific staff of Medical Research Council 1950-58; Prof. Guy's Hosp. 1958-70; Vice-Chancellor Univ. of Nottingham 1970-75; Regius Prof. of Physic, Cambridge Univ. 1976-; Master of Downing Coll., Cambridge 1978-; Chair. East Midlands Econ. Planning Council 1974-75, Medicines Comm. 1976; mem. Health Educ. Council 1972-78, Inter-univ. Council for Higher Educ. Overseas 1973-, Trent Regional Health Authority 1974-76, Hong Kong Univ. and Polytechnic Grants Cttee. 1975-, Medical Research Council 1976-; Hon. Fellow, New York Acad. of Science, Hon. LL.D. (Nottingham). *Publications:* On Burns 1952, Tolbutamide after Ten Years 1966, Priorities in Medicine 1968, Health Behaviour in an Urban Community 1970, about 100 articles. *Leisure interests:* tennis, cricket. *Address:* The Master's Lodge, Downing College, Cambridge, England. *Telephone:* 0223-59491.

BUTTERWORTH, Sir (George) Neville, Kt.; British business executive; b. 27 Dec. 1911, Hastings; s. of Richard Butterworth and Hannah Wright; m. Barbara M. Briggs 1947; two s.; ed. Malvern Coll. and St. John's Coll., Cambridge; joined English Sewing Cotton Co. Ltd. 1933, Commercial Dir. 1948, Deputy Man. Dir. 1961, Joint Man. Dir. 1964, Man. Dir. 1966, Deputy Chair. 1967, Chair. Tootal Ltd. (fmrly. English Calico Ltd.) 1968-74; High Sheriff of County of Greater Manchester 1974, Deputy Lieut. 1974-; Dir. Renold Ltd.; fmr. Chair. North West Regional Council, Confed. of British Industry (CBI); mem. North Regional Board, Nat. Westminster Bank Ltd., Court of Govs. of Univ. of Manchester Inst. of Science and Technology, Textile Council; mem. Royal Comm. on the Distribution of Income and Wealth 1974-; fmr. mem. Grand Council of CBI; Fellow, British Inst. of Management; Companion of the Textile Inst. *Leisure interest:* farming. *Address:* Oak Farm, Ollerton, Knutsford, Cheshire, England. *Telephone:* Knutsford 3150 (Home).

BUTTIGIEG, Anton, LL.D.; Maltese lawyer, politician and poet; b. 19 Feb. 1912, Gozo; s. of Saviour and Concetta (née Falzon) Buttigieg; m. 1st Carmen Bezzina 1944, 2nd Connie Scicluna 1953, 3rd Margery Patterson 1975; two s. one d.; ed. Royal Malta Univ.; Notary Public 1939; Police Insp. during Second World War; Law reporter and leader writer Times of Malta 1944-48; Acting Magistrate 1955; Editor, The Voice of Malta 1959-; mem. Parl. 1956-76; Pres. Malta Labour Party 1959-61, Deputy Leader 1962-76; Del. to Malta Constitutional Confs., London 1958-64; Rep. to Consultative Assembly, Council of Europe 1967-, Vice-Pres. 1967-68; Deputy Prime Minister 1971-74, Minister of Justice and Parl. Affairs 1971-76; Pres. of the Repub. of Malta Dec. 1976-; mem. Acad. of the Maltese Language; First Prize for Poetry, Govt. of Malta 1971, Guze Muscat Azzopardi prize for poetry 1972, silver plaque for poetry Circolo Culturale Rhegium Julii of Reggio Calabria 1975, Premio Int. di Cultura Mediterranea award 1977. *Publications:* Lyric poetry: Mill-Gallerija ta' Zghoziti (From the Balcony of my Youth) 1945, Fanali bil-Lejl (Lamps in the Night) 1949, Qasba mar-Rih (A Reed in the Wind) 1968, Fl-Arena (In the Arena) 1970; Humorous poetry: Ejjew nidkhu Ftit (Let us Laugh a Bit) 1963, Ejjew nidhku ftit iehor (Let us Laugh a Bit More) 1966; Haikus and Tankas: Il-Muza bil-Kimono (The Muse in Kimono) (also in Japanese and English) 1968; Ballati Maltin (Maltese ballads) 1973; Il Mare di Malta (Ed. de Lucca Rome) 1974; Il-Ghanja tas-Sittin (The Song of the Sixty Year Old) 1975; The Lamplighter 1977. *Leisure interests:* horse racing, gardening. *Address:* The Palace, Valletta; San Anton Palace (official residence); The White Lodge, Kappara, Malta (private residence). *Telephone:* 21221 (office); 40354 (official residence).

BUTZ, Earl, PH.D.; American agriculturist; b. 3 July 1909, Noble County, Ind.; s. of Herman Lee Butz and Ada Tillie Lower; m. Mary Emma Powell 1937; two s.; ed. Purdue Univ.; farmer, Noble County 1932-33; Fellow in Agricultural Econs., Purdue Univ. 1933-35; Research Fellow, Fed. Land Bank of Louisville 1935-37; Instructor in Agricultural Econs., Purdue Univ. 1937-38, Asst. Prof. 1938-42, Assoc. Prof. 1942-46, Prof. and Head of Agricultural Econs. 1946-54; Asst. Sec. of Agriculture, Washington, D.C., and mem. Board of Dirs. Commodity Credit Corpn. 1954-57; Dean of Agriculture 1957-67, Dean of Continuing Educ. and Vice-Pres. Purdue Research Foundation, Purdue Univ. 1968-71; U.S. Sec. of Agriculture 1971-76; Counsellor to the Pres. for Natural Resources Jan.-May 1973; Chair. U.S. Del. to FAO, Rome 1955-56, 1972-74, to World Food Conf. 1974; mem. American Farm Econs. Assen., Int. Conf. of Agricultural Economists, American Assen. of Univ. Profs., etc.; numerous directorships, awards and hon. degrees. *Publications:* The Production Credit System for Farmers 1944, Price Fixing for Foodstuffs 1952, various pamphlets, research bulletins and articles in journals and magazines. *Address:* 312 Jefferson Drive, West Lafayette, Ind. 47906, U.S.A.

BUWONO, Hamengku, IX (*see* Hamengkubuwono IX).

BUZZATI-TRAVERSO, Adriano; Italian geneticist and international official; b. 6 April 1913, Milan; s. of Prof. Giulio Buzzati-Traverso and Alba Mantovani; ed. Univ. of Milan; Dir., Inst. of Genetics, Univ. of Pavia 1948-62; Dir. Dept. of Marine Genetics 1953-59; Research Assoc., Scripps Inst. of Oceanography, La Jolla, Calif.; human genetics expert to WHO 1960-69; mem. Advisory Cttee. on Radiobiology, Int. Comm. of Radiological Protection; Pres. Italian group, Pugwash Conf. 1966-69; fmr. mem. Exec. Cttee.

Int. Cell Research Org., UNESCO and European Molecular Biology Org.; Asst. Dir.-Gen. for Science, UNESCO 1969-73; Sr. Scientific Adviser, UN Environment Programme, Nairobi 1973-. *Publications:* Four books and numerous articles on population genetics and biophysics, The Scientific Enterprise, Today and Tomorrow 1976. *Leisure interests:* science, writing and abstract art. *Address:* 2 bis, avenue de Ségur, 75007 Paris, France; Via Castiglione del Lago 14, Rome 00191, Italy. *Telephone:* 7054087 (Paris); 3272485 (Rome).

BYAM SHAW, Glen, C.B.E.; British theatrical director; b. 13 Dec. 1904, London; s. of Byam Shaw and Evelyn Pyke-Nott; m. Angela Baddeley, C.B.E. 1929 (died 1976); one s. one d.; ed. Westminster School, London; first stage appearance, Pavilion Theatre, Torquay 1923; mem. J. B. Fagan Co., Oxford Repertory Theatre; played Trophimof (The Cherry Orchard), New York, Konstantin Treplev (The Seagull), Baron Tusenbach (The Three Sisters), London; played in Max Reinhardt's production of The Miracle; repertory tour in South Africa with Angela Baddeley; played Darnley in Queen of Scots and Laertes in John Gielgud's production of Hamlet; mem. Gielgud Co., Queen's Theatre, London; produced plays in London, New York and Stratford-upon-Avon; Dir. Old Vic Theatre School 1947-51; Co-Dir. Shakespeare Memorial Theatre 1952-55, Dir. 1956-59, Gov. 1960; Dir. of Productions, Sadler's Wells Opera House 1962-; mem. of Directorate of Sadler's Wells Opera 1966-; mem. of Directorate of English Nat. Opera 1974-; Army Service with Royal Scots 1939-45; Hon. D.Litt. (Birmingham). *Leisure interest:* friends and relations. *Address:* 169 Ashley Gardens, London, S.W.1; Barnacre, Loddon Drive, Berkshire, England. *Telephone:* 01-828 9165 (London).

BYKHOVSKY, Bernard Emmanuilovich; Soviet philosopher; b. 12 Sept. 1898, Bobruisk; ed. Byelorussian Univ., Minsk. Mem. CPSU 1920-; Prof. 1929-; mem. U.S.S.R. Acad. of Sciences 1966-; State Prize 1944. *Publications:* numerous philosophical works. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky prospekt, Moscow, U.S.S.R.

BYNUM, William; American business executive; b. 1 Sept. 1902, Oneonta, Ala.; s. of Dalton Perry and Lena Hendricks Bynum; m. Margaret Garrett 1935; two s.; ed. Univ. of Alabama and Auburn Univ.; Athletic Dir., Troy Univ. 1925-27; Carrier Corpn., Syracuse 1930-, Exec. Vice-Pres. 1951-56, Dir. 1952-, Pres. 1956-65, Pres. and Chief Exec. Officer 1963-65, Chair. and Chief Exec. Officer 1965-69; Dir. Marine Midland Grace Trust Co. of N.Y., Carrier Corpn., Otis Elevator Co., Crouse-Hines Co., and other companies; mem. Nat. Industrial Conf. Board; Hon. Sc.D. (Univ. of Alabama), Hon. LL.D. (Syracuse). *Leisure interests:* community affairs, golf, fishing, bridge, reading. *Address:* Carrier Corporation, Carrier Parkway, Syracuse, N.Y. 13202 (Office); Hunt Lane, Fayetteville, N.Y., U.S.A. (Home).

BYRD, David Harold; American business executive; b. 24 April 1900, Detroit, Tex.; s. of Edward and Mollie Byrd; m. 1st Mattie Caruth (deceased); two s. two d.; m. 2nd Mavis Barnett Heath 1974; ed. Trinity Univ. Waxahachie and Univ. of Texas, Austin; Co-founder Civil Air Patrol and Chair. Emer. Nat. Exec. Board; Co-founder and Dir. Emer. Ling-Temco-Vought Inc.; Owner, D. H. Byrd Enterprises (cattle, oil, gas operations, trusts, foundations, financial, investment, industrial and real estate companies); Charter mem. Chancellor's Council, Univ. of Texas; Hon. Dr. of Aviation Management (Embry-Riddle); Distinguished Alumnus Award, Univ. of Texas 1966. *Leisure interests:* hunting, fishing, painting. *Address:* 1110 Tower Petroleum Building, Dallas, Tex. 75201 (Office); 6909 Vassar Drive, Dallas, Tex. 75205, U.S.A. (Home). *Telephone:* 214-741-5991.

BYRD, Harry Flood, Jr. (son of late Harry Flood Byrd); American newspaperman and politician; b. 20 Dec. 1914; m. Gretchen B. Thomson 1941; two s. one d.; ed. John Marshall High School, Richmond, Virginia Military Inst. and Univ. of Virginia; Editorial writer Winchester Evening Star 1933, Editor and Publisher 1935-, Editor and Publisher Harrisonburg Daily News-Record 1937-; also active in firm of H. F. Byrd, Inc., apple growers; mem. Virginia State Senate 1947-65; mem. Democratic State Central Cttee. 1940-70; served U.S. Naval Reserve 1941-46; Dir. Associated Press 1950-66; U.S. Senator from Virginia (succeeding his father, Harry Flood Byrd) 1965-; Independent. *Address:* U.S. Senate, Washington, D.C. 20510, U.S.A.

BYRD, Robert C., J.P.; American politician; b. 20 Nov. 1917, North Wilkesboro, N.C.; s. of Cornelius Sale and Ada Byrd; m. Erma O. James 1936; two d.; ed. George Washington Univ. Law School and Washington Coll. of Law (American Univ.); mem. West Virginia House of Delegates 1946-50, W.Va. Senate 1950-52; mem. U.S. House of Representatives rep. 6th District of W.Va. 1952-58; Senator from West Virginia 1958-; Asst. Democratic Leader in Senate 1971-77, Majority Leader Jan. 1977-; mem. Senate Appropriations, Judiciary and Rules and Admin. Cttees.; Democrat. *Address:* Senate Office Building, Washington, D.C. 20510, U.S.A.

BYRNE, Brendan Thomas, D.F.C.; American lawyer and politican; b. 1 April 1924, West Organ, N.J.; m. Jean Featherly 1953; three s. four d.; ed. West Orange High School, Seton Hall Univ., South Orange, N.J., Princeton Univ. School of Public and Int. Affairs, Harvard Law School; served Army Air Corps 1943-45; admitted to the Bar 1951; served legal clerkship with Judge Joseph Weintraub; practised with law firm of John W. McGeehan, Jr., later with Teltser and Greenberg; Asst. Counsel to Gov. of New Jersey 1955; Exec. Sec. to Gov. of N.J. 1956-58; Deputy Attorney-Gen. of N.J. 1958; County Prosecutor 1959-64, 1964-69; Pres. N.J. State Board of Public Utilities Commrs. 1968-70; Judge, N.J. Superior Court 1970-72; Assignment Judge 1972-73; Gov. of New Jersey 1974-; Trustee, Princeton Univ.; Democrat. *Address:* Office of the Governor, State Capitol, Trenton, N.J. 08625, U.S.A.

BYROM, Fletcher Lauman; American business executive; b. 13 July 1918; m. Marie McIntyre 1945; one s. two d.; ed. Pennsylvania State Univ. Sales Engineer, American Steel and Wire Co., Cleveland 1940-42; Naval Ordnance Lab. and Bureau of Ordnance and Research Planning Board, Navy Dept. 1942-47; Asst. to Gen. Man. Tar Products Div., Koppers Co. Inc., Pittsburg 1947-54; Asst. Vice-Pres. 1954-55, Vice-Pres. 1955-58, Vice-Pres. and Gen. Man. 1958-60, Pres., Chief Admin. Officer and Dir. 1960-67, Pres. and Chief Exec. Officer 1967-70, Chair. of Board and Chief Exec. Officer 1970–. *Leisure interests:* sailing, shooting, reading. *Address:* Koppers Co. Inc., Koppers Building, Pittsburg, Pa. 15219, U.S.A.

BYSTEDT, (Petrus) Gösta, M.ENG.; Swedish company executive; b. 14 May 1929, Häggdånger; s. of Petrus and Anna Bystedt; m. Kerstin Elmer; one s. two d.; ed. Royal Inst. of Tech., Stockholm and Stockholm School of Econs.; Asst. Royal Inst. of Tech., Inst. for Industrial Org. and Econ. 1953-55, Asst. Lecturer 1955-58; Head of Org. and Methods Dept., AB Electrolux 1958-65, Head of Vacuum Cleaner Div. 1965-68, Deputy Man. Dir. 1968-74, Man. Dir. 1974-. *Leisure interest:* shooting. *Address:* AB Electrolux 105 45 Stockholm (Office); Bergsvägen 59, 181 31 Lidingö, Sweden (Home). *Telephone:* 08-738-62-00 (Office); 08-767-32-41 (Home).

C

CAAN, James; American actor; b. 26 March 1939, Bronx, New York; s. of Arthur and Sophie Caan; ed. Hofstra Coll.; m. 1st. DeeJay Mathis 1961, (divorced 1966); one d.; m. 2nd. Sheila Ryan 1976; one s.; made theatre début in the off-Broadway production of La Ronde 1960; Broadway début in Blood Sweat and Stanley Poole, 1961. *Films include:* Irma La Douce 1963, Lady in a Cage 1964, The Glory Guys 1965, Countdown 1967, Games 1967, Journey to Shiloh 1968, Submarine XI 1968, Man Without Mercy 1969, The Rain People 1969, Rabbit Run 1970, T. R. Baskin 1971, The Godfather 1972, Slither 1973, Cinderella Liberty 1975, Freebie and the Bean 1975, The Gambler 1975, Funny Lady 1975, Rollerball 1975, The Killer Elite 1975, Harry and Walter Go to New York 1976, Silent Movie 1976, A Bridge Too Far 1977, Another Man, Another Chance 1977, Comes a Horseman 1978; starred in television movie, Brian's Song, 1971; numerous TV appearances. *Address:* c/o William Morris Agency, 151 El Camino Boulevard, Los Angeles, Calif. 90212, U.S.A.

CABALLÉ, Montserrat; Spanish (soprano) opera singer; b. Barcelona; m. Bernabe Marti (tenor); one s.; ed. Conservatorio del Liceo; studied under Eugenia Kemeny, Conchita Badia and Maestro Annovazi; début ■ Mimi (La Bohème), State Opera of Basel; N. American début in Manon, Mexico City 1964; U.S. début in Lucrezia Borgia, Carnegie Hall 1965; appeared at Glyndebourne Festival ■■ the Marschallin in Der Rosenkavalier and ■■ the Countess in The Marriage of Figaro 1965; début at Metropolitan Opera ■■ Marguerite (Faust) Dec. 1965; now appears frequently at the Metropolitan Opera and numerous other opera houses throughout the U.S.A.; has performed in most of the leading opera houses of Europe including Gran Teatro del Liceo, Barcelona, La Scala, Milan, Vienna State Opera, Paris and Rome Operas, Bayerische Staatsoper (Munich), etc., and also at Teatro Colón, Buenos Aires; repertoire of over forty roles; recordings of Lucrezia Borgia, La Traviata, Salome, Aida; Most Excellent and Illustrious Doña and Cross of Isabella the Catholic. *Address:* c/o Columbia Artists Management Inc., 165 West 57th Street, New York, N.Y. 10019, U.S.A.

CABALLERO CALDERÓN, Eduardo; Colombian diplomatist and writer; b. 6 March 1910; ed. Gimnasio Moderna de Bogotá and Univ. Externado de Colombia; Sec, Embassy, Lima 1937-40; business official, Madrid 1946-48; Rep. in Congress, Bogotá 1958-61; Amb. to UNESCO, Paris 1962-66; Editor El Tiempo 1966; mem. Colombian Acad. 1966; Corresp. mem. Royal Spanish Acad.; Eugenio Nadal Prize for El Buen Salvaje 1965. *Publications:* Tipacoque (short stories) 1939, Suramérica, Tierra del Hombre (essays) 1941, Brevario del Quijote 1947, Ancha ■■ Castilla 1947, Diario de Tipacoque 1949, Americanos y Europeos 1949, Historia Privada de Los Colombianos 1949, Cartas Colombianas 1951; novels: El Cristo Espaldas 1950, El Arte de Vivir sin soñar 1950, La Penúltima Hora 1953, Siervo sin Tierra 1954, Memorias Infantiles 1964, Manuel Pacho 1965, El Buen Salvaje 1965, Cain 1969. *Address:* Calle 37, No. 19-07, Bogotá, D.E., Colombia.

CABALLERO TAMAYO, Xavier; Bolivian international official; b. 1918, La Paz; ed. Univ. de San Andrés, La Paz. With Banco Central de Bolivia, Sec.-Gen., Chief of Personnel and Asst. Insp. Gen. 1939-48; joined ILO 1948; various posts in Latin America and Geneva; Deputy Dir., field office for Near and Middle East 1957, Dir. 1963, Regional Co-ordinator 1966, Regional Co-ordinator for the Americas 1967, Asst. Dir.-Gen. Aug 1969-. *Address:* International Labour Organization, 154 rue de Lausanne, 1211 Geneva 22, Switzerland.

CABANILLAS GALLAS, Pío; Spanish lawyer and politician; b. 13 Nov. 1923, Pontevedra; m. María Teresa Alonso García; one s.; ed. Univ. of Granada; Prof. of Commercial Law, Univ. of Madrid; founder Revista de Derecho Notarial; Under-Sec. Ministry of Information and Tourism 1962-73; Minister of Information and Tourism 1973-74, of Culture and Social Welfare 1977-79; Deputy for Orense; Co-founder Partido Popular 1976; Pres. Tabacalera, S.A.; mem. Real Acad. de Jurisprudencia y Legislación and other Acads.; Grand Cross of Civil Merit, Order of San Raimundo de Peñafort, Order of Carlos III, Order of Alfonso X el Sabio, Order of Naval Merit, Imperial Order of the Yoke and Arrows. *Publications:* La Ley de Venta ■ Plazos, Estatuo de la Publicidad, Modernas Orientaciones del Derecho Inmobilario, El Convenio de Exclusiva, Tópica y Dogmática Jurídica, El Poder en la Sociedad Anónima. *Address:* Alberto Alcocer, 13, Madrid, Spain (Home).

CABANIS, José; French writer; b. 24 March 1922; ed. Univ. de Toulouse; Chevalier des Arts et des Lettres; Chevalier Légion d'honneur; *works include:* novels: L'age ingrat 1952, Juliette Bonviolle 1954, Les mariages de raison 1958, Le bonheur du jour (Prix des Critiques) 1961, Les cartes du temps (Prix des Libraires) 1962, Les jeux de la nuit 1964, La Bataille de Toulouse (Prix Théophraste Renaudot) 1966, Les jardins de la nuit 1973; criticism: Un essai ■■■ Marcel Jounandeau 1960, Plaisir et lectures 1964, Plaisir et lectures II 1968, Des jardins en Espagne 1969, Le sacre de Napoléon 1970, Charles X roi ultra (Prix des Ambassadeurs) 1972, Saint-Simon l'Admirable (Grand Prix de la Critique) 1975, Les profondes années (Grand Prix de Littérature de l'Acad. Française) 1976. *Address:* 5 rue Darquié, 31000 Toulouse, France.

CABOT, John Moors, B.LITT.; American diplomatist; b. 11 Dec. 1901, Cambridge, Mass.; s. of Godfrey Lowell Cabot and Maria Buckminster Moors; m. Elizabeth Lewis 1932; two s. two d.; ed. Harvard Univ. and Oxford Univ.; entered U.S. Foreign Service 1926; Vice-Consul Peru 1927-28; Third Sec. Dominican Republic 1929-31, Mexico 1931-32; Third Sec., later Second Sec., Brazil 1932-35; Second Sec. Netherlands 1936-38; Sec. Sweden 1938-39, Guatemala 1939-41; assigned Dept. of State; Asst. Chief Div. of American Republics 1942; Chief, Div. of Caribbean and Central American Affairs 1944; Counsellor of Embassy, Argentina 1945-46, Yugoslavia 1947; Consul-Gen., Shanghai 1948-49; apptd. Career Minister 1948; technical officer, U.S. dels., Dumbarton Oaks, Mexico City and San Francisco Confs.; Minister to Finland 1950-52; Amb. to Pakistan 1952-53; Asst. Sec. of State 1953-54; Del. to Tenth Int. Conf. American States, Caracas 1954; Amb. to Sweden 1954-57, to Colombia 1957-59, to Brazil 1959-61, to Poland 1962-65; Deputy Commdt. Nat. War Coll. 1965-66; retd. from foreign service Oct. 1966; lecturer, Tufts Univ. 1967-68; Grand Cross, Order of Southern Cross (Brazil) 1968. *Publications:* The Racial Conflict in Transylvania 1926, Towards our Common American Destiny 1955. *Address:* 1610 28th Street, N.W., Washington, D.C. 20007; Summer: Watch House, Manchester, Mass. 01944, U.S.A.

CABOT, Paul Codman, A.B., M.B.A.; American banker; b. 21 Oct. 1898, Brookline, Mass.; s. of Henry B. Cabot and Anne Codman; m. Virginia Converse 1924; five c.; ed. Harvard Univ.; with First Nat. Bank 1923-24; Treas. State Street Investment Corpn. 1924-34, Pres. 1934-58, Chair. of Board 1958-; partner State Street Research and Management Co. 1928-; Dir. Morgan Guaranty Trust Co. of New York, Continental Can Co., Ford Motor Co., Nat. Dairy Products Corpn.; mem. Business Council, Treas. Harvard Univ. 1948-65; Trustee Eastern Gas and Fuel Assen. *Address:* 225 Franklin Street, Boston, Mass. 02110 (Office); 653 Chestnut Street, Needham, Mass., U.S.A. (Home).

CABOU, Daniel, L. EN. D.; Senegalese economist and politician; b. 16 June 1929, Mandina; s. of Benoit Cabou and Angélique N'Deye; m. Eleonore Mendy 1959; one s. five d.; ed. Lycée Van Vollenhoven, Dakar, Univ. of Dakar, Lycée Louis le Grand, Paris, Ecole Nationale de la France d'Outre-Mer, Univ. of Paris; responsible for liaisons with the Grand Council of the French African Community in the Cabinet of Xavier Torre, Sec.-Gen. of the French African Community 1954-58; Chef de Cabinet for Pierre Lami, Head of Senegalese Territory 1958; Technical Councillor for Mamadou Dia; Pres. Council of Ministers 1959; Dir.-Gen. Entente coopérative Sénégalaise (ENCOOP) 1959; Gov. Fleuve region 1960-61; Dir. de Cabinet for André Peytavin, Minister of Finances 1961-62; Sec. of State for Public Works, responsible for Hydraulics, Housing and Urban Devt. Nov.-Dec. 1962; Sec. of State for Finance and Econ. Affairs 1962-63; Minister of Finance 1963-64, of Commerce, Industry and Labour 1964-68, for Secr. of the Presidency 1968-70, of Industrial Devt. 1970-72; Deputy Gov. Central Bank of West African States 1972-, Sec.-Gen. 1977-. *Address:* Banque Centrale des Etats de l'Afrique de l'Ouest, 29 rue du Colisée, 75008 Paris, France.

CABRAL, Luiz de Almeida; Guinea-Bissau politician; b. 1931, Bissau; brother of late Amílcar Cabral; founded Partido Africano da Indepêndencia da Guiné ■ Cabo Verde (PAIGC) with Amílcar Cabral 1956; mem. Political Bureau and Cen. Cttee., PAIGC 1956-70; fled to Senegal; Sec.-Gen. Nat. Union of Workers of Guinea-Bissau 1961; mem. PAIGC Council of War 1965-, Perm. Comm. of Exec. Cttee., in charge of Nat. Reconstruction of the liberated ■■■ 1970-72, Asst. Sec.-Gen. 1972-; Pres. State Council (Head of State)

of the self-proclaimed independent state of Guinea-Bissau 1973-74, Pres. of Guinea-Bissau Sept. 1974- (re-elected March 1977). *Address:* c/o Rosi Correia, Chefe do Cabinete da Presidencia do Conselho de Estado da Republica de Guiné-Bissau, Bissau, Guinea-Bissau.

CACCIA, Baron (Life Peer), cr. 1965, of Abernant; **Harold Anthony Caccia,** G.C.M.G., G.C.V.O.; British diplomatist; b. 21 Dec. 1905, Pachmarhi, India; s. of late Anthony Caccia, C.B., M.V.O. and Fanny Theodora Birch; m. Anne Catherine Barstow 1932; one s. two d.; ed. Eton, Trinity Coll., and Queen's Coll., Oxford; entered Foreign Service ■ Third Sec. Foreign Office 1929, Legation, Peking 1932; promoted to Second Sec. 1934; transferred to Foreign Office 1935; Asst. Private Sec. to Sec. of State 1936; Legation, Athens 1939; First Sec. 1940; Foreign Office 1941; seconded for service with Resident Minister North Africa 1943; Vice-Pres. Political Section Allied Control Comm., Italy 1944; Political Adviser G.O.C.-in-C. Land Forces, Greece 1944; Minster, local rank, British Embassy Athens 1945; Asst. Under-Sec. of State, Foreign Office 1946, Deputy Under-Sec. of State 1949; Minister, Vienna 1949, Minister and High Commr. 1950-51, Amb. and High Commr. 1951-54; Deputy Under-Sec., Foreign Office 1954-56; Amb. to the U.S.A. 1956-61; Perm. Under-Sec. Foreign Office 1961-64; Head of Diplomatic Service 1964-65; Provost of Eton 1965-77; Chair. Standard Telephones and Cables Ltd. 1968-; Dir. Orion Bank, Prudential Assurance Co., Foreign and Colonial Investment Trust 1965-, Eurotrust 1977-; Lord Prior, Order of St. John 1969; Hon. Fellow, Trinity Coll., Oxford 1963, Queen's Coll., Oxford 1974. *Address:* 1 Chester Place, London NW1, England; Abernant, Builth Wells, Powys, Wales. *Telephone:* 01-935 0302 (London); Erwood 233 (Wales).

CACOYANNIS, Michael, Barrister-at-law (brother of Mrs. Stella Soulioti, q.v.); Greek film and stage director and actor; b. 11 June 1922, Limassol, Cyprus; s. of Sir Panayotis and Lady Cacoyannis; ed. Greek Gymnasium, and in London at Gray's Inn, Central School of Dramatic Art and Old Vic School; called to the Bar 1943; Producer for Overseas Service of BBC 1941-50; screen and stage producer 1950-; Order of the Phoenix (Greece) 1965. Appeared in Wilde's Salomé ■ Herod 1947, in Camus's Caligula 1949, in Two Dozen Red Roses 1949, etc.; directed films Windfall in Athens 1953, Stella 1955, A Girl in Black 1957, A Matter of Dignity 1958, Our Last Spring 1959, The Wastrel 1960, Electra 1961, Zorba the Greek 1964, The Day the Fish Came Out 1967, The Trojan Women 1971, The Story of Jacob and Joseph 1974, Attila 74 1975, Iphigenia 1977; also a number of stage productions in Athens, New York, etc., including The Trojan Women, Paris 1965, The Devils, New York 1966, Mourning Becomes Electra, Metropolitan Opera, New York 1967, Romeo and Juliet, Paris 1968, Iphigenia in Aulis, New York 1968, La Bohème, New York 1972, King Oedipus, Dublin 1973, The Bacchae, Comédie Française, Paris 1977. *Address:* 15 Mouson Street, Athens 401, Greece. *Telephone:* 992-2054.

CADBURY, Sir (George) Adrian (Hayhurst), Kt., M.A.; British food manufacturer; b. 15 April 1929, Birmingham; s. of Laurence J. Cadbury (q.v.) and Joyce Cadbury; m. G. M. Skepper 1956; two s. one d.; ed. Eton and King's Coll., Cambridge; Man. Dir. Cadbury Schweppes Ltd. 1969-73, Deputy Chair. 1974, Chair. 1975-; Chair. West Midlands Econ. Planning Council 1967-70, CBI Econ. and Financial Policy Cttee. 1976-; Dir. Bank of England 1970-, IBM U.K. Ltd., IBM U.K. Holdings Ltd. 1975-. *Address:* Rising Sun House, Baker's Lane, Knowle, Solihull, West Midlands, B93 8PT, England.

CADBURY, Laurence John, O.B.E., M.A. (father of Sir Adrian Cadbury, (q.v.); British industrialist; b. 30 March 1889, Birmingham; s. of George Cadbury and Dame Elizabeth Cadbury; m. Joyce Mathews 1925; four s. (one deceased) two d. (one deceased); ed. Leighton Park School and Trinity Coll., Cambridge; Man. Dir. British Cocoa & Chocolate Co. Ltd., Cadbury Bros. Ltd. and Associated Companies 1920-59; Chair. E.M.B. Co. Ltd. 1926, Daily News Ltd. 1930-76; Dir. Tyne Tees Television 1959-67; Chair. Bournville Village Trust 1954-78; Dir. Bank of England 1936-61; Head Econ. Section, Mission to Moscow 1941; High Sheriff, County of London 1947-48, 1960-61; Croix de guerre, Mons Medal 1914 Bar; Hon. LL.D. (Birmingham). *Leisure interest:* golf. *Address:* The Davids, Northfield, Birmingham, B31 2AN, England.

CADBURY, Paul Strangman, C.B.E.; British business executive; b. 3 Nov. 1895; ed. Leighton Park School, Reading; Friends' Ambulance Unit 1915-18, Chair. Friends' Ambulance Unit 1939-48; Vice-Chair. Cadbury Bros. Ltd. 1949-59, Chair. 1959-65; mem. Bournville Village Trust. *Publication:* Birmingham—Fifty Years On 1952. *Address:* Low Wood, 32 St. Mary's Road, Harborne, Birmingham, B17 0HA, England. *Telephone:* 021-427 1636.

CADIEUX, Hon. Léo, P.C., O.C.; Canadian newspaperman and politician; b. 28 May 1908, St. Jerome, Quebec; s. of Joseph E. Cadieux and Rosa Paquette; m. Monique Plante 1962; one s.; ed. Commercial Coll. of St. Jerome and Seminary of Ste. Thérèse de Blainville, Quebec; on editorial staff of La Presse, Montreal, Que. 1930-41; Assoc. Dir. of Public Relations, Canadian Army 1941-44; War Corresp. for La Presse, Montreal 1944; Mayor of St. Antoine des Laurentides, Que. 1948; mem. Canadian House of Commons 1962-79; Assoc. Minister of Nat. Defence 1965-67, Minister of Nat. Defence 1967-70; Amb. to France 1970-75; Liberal. *Address:* 20 Driveway, Appt. 1106, Ottawa, Canada.

CADIEUX, Marcel, C.C., LL.D., Q.C., F.R.S.C.; Canadian diplomatist; b. 17 June 1915, Montreal; s. of Roméo Cadieux and Berthe Patenaude; m. Anita Comtois 1956; two s.; ed. André Grasset Coll., Montreal, Univ. of Montreal and McGill Univ.; joined Dept. of External Affairs 1941, served in London and Brussels and as adviser to Canadian Del. to Paris Peace Conf.; Head, Personnel Div., Ottawa 1948; attended NATO Defence Coll., Paris 1951; Counsellor, Canadian Del. to N. Atlantic Council 1952; Senior Political Adviser to Canadian Comm. on Int. Supervisory Comm., Vietnam 1954; Head, UN Div., Ottawa 1955; Asst. Under-Sec. of State for External Affairs and Legal Adviser 1956, Deputy Under-Sec. 1960; Under-Sec. Dept. of External Affairs 1964; Amb. to U.S.A. 1970-75, to EEC 1975-78; Counsellor to Commr. Royal Canadian Mounted Police and Dir. of Security 1978-; Vanier Gold Medal (Inst. of Public Admin. of Canada), Outstanding Achievement Award (Public Service of Canada). *Publications:* Le ministère des affaires extérieures 1949, Embruns 1951, Le diplomate canadien 1961 (English trans. 1963); contributions to academic publs. and magazines. *Leisure interests:* reading, films, travel. *Address:* Headquarters of the Royal Canadian Mounted Police, 1200 Alta Vista Drive, Ottawa (Office); 2047 Chalmers Road, Ottawa K1K 6K4, Canada (Home). *Telephone:* 993-2605 (Office); 523-2743 (Home).

CADISCH, Joos; Swiss geologist; b. 1 Sept. 1895; ed. Univ. of Berne; Privat Dozent Fed. Inst. of Technology, Zürich 1925; Prof. of Geology Basel Univ. 1935; Prof. of Geology and Dir. Geological Inst. Berne Univ. 1943-66, Prof. Emer. 1966-, Rector of the Univ. 1958; attached to Swiss Geological Comm. 1920-30, mem. 1945-; Hon. mem. Geologists' Assen. (London); foreign mem. Geological Soc. of London and Accad. Nazionale dei Lincei. *Publications:* Der Bau der Schweizeralpen 1926, Geologie der Insel Elba 1929, Geologie der Schweizerischen Mineral- und Thermalquellen 1931, Geologie der Schweizeralpen (2nd edition) 1953; co-editor Geological Map of Mittelbünden, Geological Map of Liechtenstein, Geological Atlas of Switzerland. *Address:* Gutenbergstrasse 26, Berne, Switzerland.

CADWALLADER, Sir John, Kt.; Australian business executive (retd.); b. 25 Aug. 1902, Melbourne; s. of Daniel Cadwallader and Florinda Margaretta Cust; m. Helen S. Moxham 1935; two s. one d.; ed. Sydney Church of England Grammar School; Man. Dir. Mungo Scott Pty. Ltd. until incorporation of Allied Mills Ltd. 1919-49; Chair. and Man. Dir. Allied Mills Ltd. 1949-; Dir. Bank of New South Wales 1945-78, Pres. 1959-78; fmr. Chair. Bushells Investments Ltd.; Dir. Queensland Insurance Co. Ltd. 1946-74. *Leisure interests:* golf, reading, rural interests. *Address:* 27 Marian Street, Killara, N.S.W. 2071, Australia. *Telephone:* 49-1974.

CAETANO, Marcello José das Neves Alves, LL.D.; Portuguese lawyer and politician; b. 17 Aug 1906, Lisbon; ed. Univ. of Lisbon; Prof. of Law of Lisbon Univ. 1933-68; elected to Council of Colonial Empire 1936; drafted Admin. Code promulgated in 1936; Nat. Commr. for Youth 1940; Special Envoy to Brazil 1941; Minister for Colonies 1944-47; Pres. of Corporative Chamber 1949-55; Asst. Prime Minister 1955-58; Prime Minister 1968-74 (deposed by mil. coup); Rector, Univ. of Lisbon 1959-62; in exile following coup May 1974; Head Inst. of Comparative Law, Rio de Janeiro 1974-. *Publications:* A Depreciação da Moeda depois da Guerra 1931, Manual de Direito Administrativo 1936, Tratado Elementar de Direito Administrativo 1944, Portugal e o direito Colonial Internacional 1948, Ciência Política e Direito Constitucional 1955, etc. *Address:* Institute of Comparative Law, Gama Filho University, Rua Miguel Vitorino 623, Rio de Janeiro, RJ, Brazil.

CAGATAY, Mustafa; Cypriot politican; b. 1937, Limassol; m.; three c.; ed. Nicosia Turkish Lycée; started Law Practice in Limassol 1963; elected dep. for Limassol, Turkish Communal Chamber 1970; elected mem. for Kyrenia, Legis. Ass., Turkish Federated State of Cyprus 1976; Minister of Finance 1976, of Labour, Social Security and Health May-Dec. 1978; Prime Minster Dec. 1978-; mem. Turkish Cypriot Cttee., Turkish and Greek Cypriot Talks on

Humanitarian Issues 1974; mem. Nat. Unity Party. *Address:* Office of the Prime Minister, Turkish Federated State of Cyprus, Mershin 10, Turkey.

CAGE, John; American composer, author and artist; b. 5 Sept. 1912, Los Angeles, Calif.; s. of John Milton Cage and Lucretia Harvey; m. Xenia Andreyevna Kashevaroff 1935 (divorced 1945); ed. Pomona Coll.; studied composition, harmony and counterpoint with Richard Buhlig, Adolph Weiss, Arnold Schoenberg and Henry Cowell; Teacher of Composition, New School for Social Research, New York 1955-60; Musical Dir. Merce Cunningham and Dance Co., New York 1944-68; Fellow, Center for Advanced Studies, Wesleyan Univ. 1960-61; Composer in Residence, Univ. of Cincinnati 1967; Visiting Research Prof., School of Music, Univ. of Ill. 1967-69, Artist in Residence, Univ. of Calif. (Davis) 1969; Dir. concert percussion music sponsored by Museum of Modern Art and League of Composers 1943; mem. Cunningham Dance Foundation; mem. of Board, Foundation for Contemporary Performance Arts; mem. Nat. Inst. of Arts and Letters 1969-; Guggenheim Fellow 1949; Thorne Music Grant 1968-69; award for extending boundaries of Musical Art, Nat. Acad. of Arts and Letters, and other awards; commissioned works include The Seasons (Ballet Soc.) 1949, 34'46. 766" for Two Pianists (Donaueschinger Musiktage) 1954, Atlas Eclipticalis (Montreal Festival) 1961, Cheap Imitation (Koussevitzky Music Foundation) 1972, Renga with Apartment House 1776 (National Endowment for the Arts and the Boston Symphony Orchestra) 1976. *Publications include:* The Life and Works of Virgil Thomson (with Kathleen O'Donnell Hoover) 1958, Silence 1961, A Year from Monday 1967, Notations (with Alison Knowles) 1969, Mushroom Book (with Lois Lang and Alexander H. Smith) 1972, Not Wanting to Say Anything about Marcel, M 1973, Empty Words 1978, Writing Through Finnegan's Wake 1978. *Leisure interest:* amateur mycology (founding mem. New York Mycological Soc.). *Address:* 107 Bank Street, New York, N.Y. 10014, U.S.A.

ÇAĞLAYANGIL, Ihsan Sabri; Turkish politician; b. 1908, Istanbul; s. of Saleri and Belkis Çağlayangil; m. Füruzende Çağlayangil 1933; one s. one d.; ed. School of Law, Istanbul; fmrly. with Ministry of Interior; Gov. of Antalya 1948-53; of Çannakale 1953-54, of Sivas 1954, of Bursa 1954-60; Senator for Bursa 1961-; Minister of Labour Feb.-Oct. 1965, of Foreign Affairs 1965-71; Pres. Senate Foreign Affairs Cttee. 1972-; Minister of Foreign Affairs 1975-77, July-Dec. 1977; Justice Party. *Address:* c/o Ministry of Foreign Affairs, Ankara, Turkey.

CAGLIOTI, Vincenzo; Italian chemist and university professor; b. 26 May 1902; ed. Università di Napoli. Prof. Univ. of Florence 1936; Prof. Univ. of Rome 1938-77; Pres. Consiglio Nazionale delle Ricerche 1965; mem. Accad. Nazionale dei Lincei; Nat. Prize for Chemistry Accad. Nazionale dei Lincei 1957. *Address:* Consiglio Nazionale delle Ricerche, Piazzale delle Scienze 7, Rome; Istituto di Chimica Generale dell'Università di Roma, Piazzale delle Scienze 5, Rome, Italy. *Telephone:* 4953635; 490324 (Univ.).

CAGNEY, James; American actor; b. 17 July 1899, New York; m. Frances Vernon 1922; worked in films 1931-; Pres. Cagney-Montgomery Productions; Vice-Pres. Cagney Productions 1942; Pres. Screen Actors Guild 1942-43; Acad. Award for Yankee Doodle Dandy 1942. *Films include:* Public Enemy 1931, The Crowd Roars 1932, Footlight Parade 1933, Jimmy the Gent 1934, Here Comes the Navy 1934, G-Men 1935, A Midsummer Night's Dream 1935, Angels with Dirty Faces 1938, Each Dawn I Die 1939, The Roaring Twenties 1939, Strawberry Blonde 1941, Yankee Doodle Dandy 1942, Johnny Come Lately 1943, 13 Rue Madeleine 1946, The Time of Your Life 1948, White Heat 1949, What Price Glory 1952, Mister Roberts 1955, Man of a Thousand Faces 1957, Shake Hands with the Devil 1959, The Gallant Heart 1960, One, Two, Three 1961; Dir. Short Cut to Hell 1958. *Address:* c/o American Film Institute, 501 Doheny Road, Beverly Hills, Calif. 90210, U.S.A.

CAIN, Stanley Adair, PH.D.; American ecologist and professor of botany; b. 19 June 1902; s. of Oliver E. and Lillian F. Cain; m. Louise Gilbert Mavsten 1940; one s.; ed. Butler Univ. and Univ. of Chicago; engaged in research at Butler Univ. 1924-30, Indiana Univ. 1931-33, Cold Spring Harbor Biological Lab. 1935-39; Chief, Science Section, American Army Univ. 1945-46; worked at Cranbrook Inst. of Science 1946-50; UNESCO Expert in Ecology, Technical Mission to Brazil 1955-56; Asst. Sec. for Fish, Wildlife, Parks and Marine Resources, Dept. of the Interior 1965-68; Dir. Inst. for Environmental Quality, Prof. of Botany and Prof. of Conservation, Univ. of Mich. 1968-71; Prof. of Environmental Studies, Univ. of Calif. 1971-; mem. World Acad. of Art and Science, Nat. Acad. of Sciences 1970; fmr. mem. Task Force on Natural Resources 1968; Benjamin Franklin Fellow, Royal Soc. of Arts; Pres. First Nat. Biological Congress, American Inst. of Biological Sciences 1970; Hon. D.Sc. Montreal, Williams Coll., Butler Univ. and Drury Coll.); Conservation Award, U.S. Dept. of the Interior 1964, Eminent Ecologist, Ecological Soc. of America 1969, Distinguished Service Award, U.S. Dept. of the Interior 1970. *Leisure interest:* horticulture. *Address:* Department of Environmental Studies, University of California, Santa Cruz, Calif. 95060; 109 Oak Knoll Drive, Santa Cruz, Calif., U.S.A. *Telephone:* 408-438-0677.

CAINE, Michael; British actor; b. (as Maurice Joseph Micklewhite) 14 March 1933, Old Kent Road, London; s. of late Maurice Joseph Micklewhite and of Ellen Frances Marie Micklewhite; m. 1st Patricia Haines 1954 (divorced), one d.; m. 2nd Shakira Khatoon Baksh 1973, one d.; ed. Wilson's Grammar School, Peckham; army service, Berlin and Korea 1951-53; worked at repertory theatres, Horsham and Lowestoft 1953-55; Theatre Workshop, London 1955. *Acted in:* over 100 TV plays 1957-63; play: Next Time I'll Sing to You 1963; films: A Hill in Korea 1956, How to Murder a Rich Uncle 1958, Zulu 1964, The Ipcress File 1965, Alfie 1966, The Wrong Box 1966, Gambit 1966, Funeral in Berlin 1966, Billion Dollar Brain 1967, Woman Times Seven 1967, Deadfall 1967, The Magus 1968, Battle of Britain 1968, Play Dirty 1968, The Italian Job 1969, Too Late the Hero 1970, The Last Valley 1970, Kidnapped 1971, Pulp 1971, Get Carter 1971, Zee and Co. 1972, Sleuth 1973, The Black Windmill, The Marseilles Contract, Peeper, The Wilby Conspiracy 1974, Fat Chance, The Romantic Englishwoman, Harry and Walter Go to New York, The Eagle has Landed, The Man Who Would be King 1975, A Bridge Too Far, The Silver Bears 1976, The Swarm, California Suite 1977, Ashanti 1978. *Leisure interests:* gardening, reading. *Address:* Clewer Village, near Windsor, Berkshire, England.

CAINE, Sir Sydney, K.C.M.G.; British civil servant and university administrator; b. 27 June 1902, London; s. of Harry Edward Caine; m. 1st Muriel Anne Harris (died 1962), 2nd Doris Winifred Folkard 1965 (died 1973), 3rd Elizabeth Crane Bowyer 1975; one s.; ed. Harrow County School and London School of Economics. Asst. Inspector of Taxes 1923-26; Asst. Principal, Colonial Office 1926-35, Principal 1935-37; Financial Sec., Hong Kong 1937-40; Asst. Sec., Colonial Office 1940-44; Asst. Under-Sec. of State, Colonial Office 1944-47, Deputy Under-Sec. of State 1947-48; Third Sec. H.M. Treasury 1948; Head of U.K. Treasury Del. and British Supply Office, Washington, D.C., Jan. 1949-51; Head of Int. Bank Mission to Ceylon 1951-52; Vice-Chancellor Univ. of Malaya 1952-56; Chair. Caribbean Fed. Fiscal Comm. June-Sept. 1955; Dir. L.S.E. 1957-67; Chair. Int. Inst. of Educational Planning (UNESCO) 1963-70; Gov. Reserve Bank of Rhodesia 1965-67; Head, Indonesian Sugar Study 1971-72; participation in other sugar industry studies in British West Indies 1969, Portugal 1973, Thailand 1974, Dominican Repub. 1975, Tanzania 1976, Ethiopia 1977; Grand Officer Order of Orange-Nassau (Netherlands), Order of Dannebrog (Denmark). *Publication:* British Universities: Purpose and Prospects 1969. *Address:* Buckland House, Tarn Road, Hindhead, Surrey, England. *Telephone:* Hindhead 5557.

CAIRNCROSS, Sir Alexander Kirkland, K.C.M.G., M.A., PH.D., F.B.A.; British economist and civil servant; b. 11 Feb. 1911, Lesmahagow, Scotland; s. of Alexander Kirkland Cairncross and Elizabeth Andrew Wishart; m. Mary Frances Glynn 1943; three s. two d.; ed. Hamilton Acad., Univ. of Glasgow and Trinity Coll., Cambridge; Lecurer, Univ. of Glasgow 1935-39; held various Civil Service posts 1940-46; on staff of The Economist 1946; Econ. Adviser, Board of Trade 1946-49; Dir. Econ. Div. OEEC 1950; Prof. of Applied Econs., Univ. of Glasgow 1951-61; Dir. Econ. Devt. Inst., Washington, D.C. 1955-56; Econ. Adviser to British Govt. 1961-64; Head of British Govt. Econ. Service 1964-69; Master, St. Peter's Coll., Oxford 1969-78, Hon. Fellow 1978-; Supernumerary Fellow St. Antony's Coll., Oxford 1978-; Pres. Royal Econ. Soc. 1968-70, Scottish Econ. Soc. 1969-73; mem. Council of Man. Nat. Inst. of Social and Econ. Research, Advisory Cttee. Houblon-Norman Trustees, Council of Trade Policy Research Centre, Court of Govs. L.S.E.; mem. Review Board for Govt. Contracts 1974-, Cttee. of Inquiry into Police Pay 1977-, numerous cttees., including Working of the Monetary System 1957-59; Pres. Section F, B.A.A.S. 1969, Pres. B.A.A.S. 1970-71; Foreign mem. American Acad. of Arts and Sciences; Chancellor Univ. of Glasgow 1972-; Trustee, Urwick Orr and Partners 1970; Pres. Girls' Public Day School Trust 1972; Hon. LL.D. (Mount Allison Univ., Glasgow, Reading, Exeter), Hon. D.Litt. (Heriot Watt) Hon. D.Sc. (Univ. of Wales, Queen's Univ., Belfast), Dr. h.c. (Stirling). *Publications:* Introduction to Economics 1944, Home and Foreign Investment 1870-1913 1953, Monetary Policy in a Mixed Economy 1960, Economic Development and the Atlantic Provinces 1961, Factors in Economic Development

1962, Essays in Economic Management 1971, Control of Longterm International Capital Movements 1973, Inflation Growth and International Finance 1975. *Address:* 14 Staverton Road, Oxford, England. *Telephone:* (0865) 52358.

CAIRNS, David Adam, M.A.; British journalist and musicologist; b. 8 June 1926, Loughton; s. of Sir Hugh and Barbara (née Smith) Cairns; m. Rosemary Goodwin 1959; three s.; ed. Winchester Coll., Univ. of Oxford, Princeton Univ.; Library Clerk, House of Commons 1951-53; critic, Record News 1954-56; mem. Editorial Staff, Times Educational Supplement 1955-58; music Critic, Spectator 1958-63, Evening Standard 1958-63; Asst. Music Critic, Financial Times 1963-67; Music Critic, New Statesman 1967-70; mem. staff, Philips Records, London 1968-70, Classic Programme Co-ordinator 1970-73; Asst. Music Critic, Sunday Times 1975-; Leverhulme Research Fellow 1972-74; Chevalier, Ordre des Arts et des Lettres 1975. *Publications:* The Memoirs of Hector Berlioz 1969, (editor and translator), Responses: Musical Essays and Reviews 1973. *Leisure interests:* reading, walking, cinema, theatre, cricket. *Address:* 14 Wharf Hill, Winchester, Hampshire, England.

CAIRNS, James Ford PH.D.; Australian politician; b. 4 Oct. 1914, Carlton, Victoria; ed. state schools, Univ. of Melbourne; Jr. Clerk, Australian Estates Co. Ltd. 1932-35; with Victoria Police Detective Force 1935-44; Australian Infantry Forces 1944-46; Senior Lecturer of Econ. History, Univ. of Melbourne 1946-55; mem. House of Reps. for Yarra 1955-69, for Lalor 1969-; Minister for Overseas Trade 1972-74, of Secondary Industry 1972-73; Deputy Prime Minister 1974-75, Fed. Treas. Dec. 1974-June 1975, Minister of Environment and Conservation June-July 1975; mem. Fed. Parl. Labor Party Exec. 1960-62, 1964-75. *Publications:* Australia 1952, Living with Asia 1965, The Eagle and the Lotus 1969, Silence Kills 1970, Tariffs and Planning 1971, The Quiet Revolution 1972, Oil in Troubled Waters 1976, Vietnam: Scorched Earth Reborn 1976. *Address:* 21 Wattle Road, Hawthorn, Victoria 3122, Australia.

CAIRNS, Theodore L., PH.D.; American organic chemist; b. 20 July 1914, Edmonton, Alberta, Canada; s. of Albert W. Cairns and Theodora I. Cairns; m. Margarget Jean McDonald 1940; two s. two d.; ed. Univs. of Alberta and Illinois; Instructor in Organic Chem. Univ. of Rochester 1939-41; Research Chemist, Cen. Research and Devt. Dept., E.I. du Pont de Nemours & Co. 1941-45, Research Supervisor 1945-51, Lab. Dir. 1951-61, Dir. Basic Sciences 1962-66, Dir. of Research 1966-67, Asst. Dir. 1967-71, Dir. 1971-; mem. Nat. Acad. of Sciences, American Chem. Soc.; mem. Editorial Board Organic Reactions; mem. Soc. of Chem. Industry; mem. Gov.'s Council on Science and Technology 1969; mem. President's Science Advisory Comm. 1970-73; mem. of Pres. Cttee. on Nat. Medal of Science 1974-75; Regents Prof. Univ. of Calif., Los Angeles 1965-66; Fuson Lecture, Univ. of Nevada 1968; Marvel Lecture, Univ. of Arizona 1971; Perkin Medal, American Section of Soc. of Chemical Industry 1973, Cresson Medal, Franklin Inst. 1974; Hon. Dr. of Laws (Univ. of Alberta). *Publications:* numerous patents and articles on chemistry. *Leisure interest:* tennis. *Address:* Central Research and Development Department, Room 6032, Du Pont Building, Wilmington, Del. 19898 (Office); Greenville, Wilmington, Del. 19807, U.S.A. (Home). *Telephone:* 774-2107 (Office); 658-4508 (Home).

CAKOBAU, Ratu Sir George Kadavulevu, G.C.M.G., G.C.V.O., O.B.E., J.P.; Fijian administrator and politician; b. 6 Nov. 1912, Suva; s. of Ratu Popi Epeli Seniloli Cakobau; m. 1st Adi Veniana Gavoka, one s. two d.; 2nd Adi Seruwaia Lealea Belekiwai, three s. one d.; ed. Levuka Public School, Queen Victoria School, Fiji, Newington Coll., N.S.W. and Wanganui Technical Coll., N.Z.; Fiji Civil Service 1936-39; Roko and Fijian Magistrate 1940-42, 1946-56; Sub-Insp. of Police 1944-46; mem. Legis. Council and Parl. 1951-72; Econ. Devt. Officer and Roko 1956-62; Native Lands Commr. 1962-67; Asst. Minister for Fijian Affairs and Local Govt. 1969, Minister 1970-72; Minister without Portfolio May-Dec. 1972; Gov.-Gen. of Fiji 1973-; K.St.J. *Leisure interests:* fishing, shooting, rugby, cricket, tennis and athletics. *Address:* Government House, Suva, Fiji.

CALDECOTE, 2nd Viscount, cr. 1939, of Bristol; **Robert Andrew Inskip,** D.S.C., M.A., F.ENG., F.I.MECH.E., F.I.E.E., M.R.I.N.A.; British chartered engineer and business executive; b. 8 Oct. 1917, London; s. of Thomas Walker Hobart Inskip, 1st Viscount Caldecote, and Lady Augusta, widow of Charles Orr Ewing; m. Jean Hamilla Hamilton 1942; one s. two d.; ed. Eton and King's Coll., Cambridge; R.N.V.R. 1939-45; Royal Naval Coll., Greenwich 1946-47; Asst. Man. Vickers-Armstrong Naval Yard, Walker-on-Tyne 1947-48; Fellow, King's Coll., Cambridge, and Lecturer, Engineering Dept., Cambridge Univ. 1948-55; Man. Dir. English Electric Aviation 1960-63; Deputy Man. Dir. British Aircraft Corpn. 1961-67; Dir. English Electric Co. 1953-69, D. Napier and Son Ltd. 1959-69, British Aircraft Corpn. (Holdings) 1960-69, Marconi Int. Marine Co. Ltd. 1960-71, Delta Metal Co. Ltd. 1969- (Chair. 1972-); Dir. Consolidated Gold Fields Ltd. 1969-79; Dir. Cincinnati Milacron Ltd. 1969-75; Dir. Lloyds Bank Ltd. 1975-, Lloyds Bank Int. Ltd. 1979-; Chair. Legal and Gen. Assurance Soc. Ltd. May 1977-; Chair. The Design Council 1972-; Pres. Soc. of British Aerospace Companies 1965-66, Parl. and Scientific Cttee. 1966-69, Assen. Int. des Constructeurs de Matériel Aerospatial (AICMA) 1966-68, Australian-British Trade Assen. 1973-78; Chair. Econ. Devt. Cttee. for the Movement of Exports 1965-72; mem. Review Board for Govt. Contracts 1969-76, Inflation Accounting Cttee. 1975-76, Eng. Industries Council 1975-; Chair. Export Council for Europe April 1970-71; Pres. Dean School Close, Canning House; Hon. D.Sc. (Cranfield Inst. of Tech.). *Leisure interests:* sailing, shooting, golf. *Address:* c/o Delta Metal Co. Ltd., 1 Kingsway, London, WC2B 6XF (Office); Orchard Cottage, South Harting, Petersfield, Hants., England (Home). *Telephone:* 01-836 3535 (Office); Harting 264 (Home).

CALDERA RODRÍGUEZ, Dr. Rafael; Venezuelan lawyer and politician; b. 24 Jan. 1916, San Felipe, Yaracuy; s. of Dr. Rafael and Rosa Sofia R. Caldera; m. Alicia P. Caldera 1941; three s. three d.; Sec., Cen. Council of Soc. of Venezuelan Catholic Youth 1932-34; founded U.N.E. (Nat. Union of Students) 1936; graduated as lawyer 1939; founded Acción Nacional 1942; mem. Chamber of Deputies 1942; unsuccessful Pres. Candidate for Partido Social-Cristiano (COPEI) 1947; Fellow of Acad. of Political and Social Sciences 1952; unsuccessful COPEI Pres. Candidate 1958; Pres. of Chamber of Deputies 1959-61; unsuccessful COPEI Pres. Candidate 1963; Pres. of Dem. Christian Org. of America (ODCA) 1964-69; Pres. of Venezuela 1969-74; Senator-for-life 1974; Prof. Emer. of Sociology and Labour Jurisprudence, Univ. Central de Venezuela; Fellow of Venezuelan Acad. of Languages; mem. many Venezuelan and Latin American Insts. of Political Science, Spanish Language and Sociology. *Publications:* essays on legal matters, sociology and politics. *Address:* Avenida Urdaneta 33-2, Apdo. 2060, Caracas, Venezuela. *Telephone:* 561-3726.

CALDERÓN, Alberto Pedro, PH.D.; American mathematician; b. 14 Sept. 1920, Mendoza, Argentina; s. of Dr. Pedro J. Calderón and Haydée Cores; m. Mabel Molinelli Wells 1950; one s. ond d.; ed. Montana Inst., Zug, Switzerland, Colegio Nacional, Mendoza, Argentina, Univs. of Buenos Aires and Chicago; Head of Practical Studies, Univ. of Buenos Aires 1947-48; Rockefeller Fellow, Univ. of Chicago 1949-50; Visiting Assoc. Prof., Ohio State Univ. 1950-53; mem. Inst. of Advanced Study, Princeton 1953-55; Assoc. Prof. of Mathematics, M.I.T. 1955-59; fmr. Visiting Prof., Univs. of Buenos Aires, Cornell, Sorbonne, Stanford, Madrid, Bogotá (Colombia), Rome and Collège de France; Prof. of Mathematics, Univ. of Chicago 1959-; Louis Block Prof. of Mathematics, Univ. of Chicago 1968-; Chair. Dept. of Mathematics, Univ. of Chicago 1970-72; Prof. of Mathematics, M.I.T. 1972-75; Univ. Prof., Univ. of Chicago 1975-; Hon. Prof., Univ. of Buenos Aires 1975-; fmr. Assoc. Editor, Transactions of the American Medical Soc., Duke Mathematical Journal, Illinois Journal of Mathematics; Assoc. Editor, Journal of Functional Analysis, Journal of Differential Equations, Annals of Mathematics; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences of Buenos Aires, Nat. Acad. of Sciences U.S.A., Royal Acad. of Sciences, Spain; Hon. Ph.D. (Buenos Aires) 1969. *Publications:* numerous papers on mathematical topics. *Address:* Department of Mathematics, University of Chicago, Chicago, Ill., U.S.A.; also Departamento de Matemáticas, Facultad de Ciencas Exactas, Ciudad Universitaria, Buenos Aires, Argentina.

CALDEYRO-BARCÍA, Roberto, M.D., F.A.C.S.; Uruguayan physiologist; b. 26 Sept. 1921, Montevideo; s. of Joaquín Caldeyro and Elvira Barcía; m. Ofelia Stajano 1946; four s. two d.; ed. Univ. del Uruguay; Asst. Prof. of Physiology, Medical School Univ. del Uruguay 1947-50, Prof. 1950-, Prof. and Chair. Dept. of Physiopathology 1965-; Chair. Service of Obstetrical Physiology 1955; Hon. mem. American Coll. of Surgeons, American Assen. of Obstetricians and Gynaecologists; Dir. Latin American Center of Perinatology and Human Devt., Montevideo; awarded Premio Bernardo Houssay 1976. *Publications:* articles on obstetrics, Oxytocin (with H. Heller) 1961. *Address:* Centro Latinoamericano de Perinatología y Desarrollo Humano, Casilla de Correo 627, Montevideo, Uruguay. *Telephone:* 410289.

CALDWELL, Erskine; American writer; b. 17 Dec. 1903, Moreland, Georgia; s. of Ira S. Caldwell and Caroline Bell Caldwell; m. 1st Helen Lannington 1925, 2nd Margaret Bourke-White 1939, 3rd June Johnson 1942, 4th Virginia Moffett Fletcher 1957; three s. one d.; ed. Erskine Coll., Univ. of Virginia, Univ. of Pennsylvania; fmr. newspaper writer, cotton picker, stage hand, professional footballer, book reviewer, lecturer, editor; Motion Picture Screen

Writer in Hollywood 1930-34, 1942-43; awarded Yale Review award for fiction 1933; mem. Authors' League of America, Nat. Inst. of Arts and Letters, PEN Club; Newspaper Corresp. in Mexico, Spain, Czechoslovakia 1938-39; Newspaper and Radio Corresp. Russia 1941; Editor of American Folkways 1940-55. *Publications:* The Bastard 1929, Poor Fool 1930, American Earth 1931, Tobacco Road 1932, God's Little Acre, We Are the Living 1933, Journeyman, Kneel to the Rising Sun, Some American People 1935, Southways 1939, Trouble in July 1940, Jackpot 1940, All Out on the Road to Smolensk 1942, Moscow under Fire 1942, All Night Long 1942, Georgia Boy 1943, Stories 1944, Tragic Ground 1944, A House in the Uplands 1946, The Sure Hand of God 1947, This Very Earth 1948, Place Called Estherville 1949, Episode in Palmetto 1950, Call it Experience 1951, The Courting of Susie Brown 1952, A Lamp for Nightfall 1952, The Complete Stories of Erskine Caldwell 1953, Love and Money 1954, Gretta 1955, Gulf Coast Stories 1956, Certain Women 1957, Molly Cottontail (juvenile) 1958, Claudelle Inglish 1959, When You Think of Me 1959, Jenny by Nature 1961, Close to Home 1962, The Last Night of Summer 1963, Around About America 1964, In Search of Bisco 1965, The Deer at Our House (juvenile) 1966, In the Shadow of the Steeple 1966, Miss Mamma Aimee 1967, Writing in America 1967, Deep South 1968, Summertime Island 1968, The Weather Shelter 1969, The Earnshaw Neighborhood 1971, Annette 1973, Afternoons in Mid-America, Ceremony of the Innocent 1976; with Margaret Bourke-White: You Have Seen Their Faces 1937, North of the Danube 1939, Is This the U.S.A.? 1941; Afternoons in Mid-America (with Virginia M. Caldwell) 1976. *Address:* c/o McIntosh and Otis Inc., 475 Fifth Avenue, New York, N.Y. 10017; P.O. Box 4550, Hopi Station, Scottsdale, Ariz. 85258, U.S.A. (Home).

CALDWELL, Philip, M.B.A.; American motor manufacturing executive; b. 27 Jan. 1920, Bourneville, Ohio; s. of Robert Clyde and Wilhelmina (née Hemphill); m. Betsey Chinn Clark 1946; one s. two d.; ed. Muskingum Coll. and Harvard Univ.; served U.S. Navy, later Lieut. 1942-46; Navy Dept. 1946-53, Deputy Dir. of Procurement Policy Div. 1948-53; joined Ford Motor Co. 1953, Vice-Pres. 1968-, also Dir.; Gen. Man. Truck Operations 1968-70; Pres. and Dir. Philco-Ford Corpn. 1970-71; Vice-Pres. of Mfg. Group 1971-72; Chair., Chief Exec. Officer and Dir. Ford Europe Inc. 1972-73; Exec. Vice-Pres. with responsiblity for int. automotive operations 1973-78, Vice-Chair. and Deputy Chief Exec. Officer 1978-, Pres. Sept. 1978-; also Dir. of Ford Latin America, S.A. de C.V., Ford Asia-Pacific Inc., Ford Mid-East and Africa Inc.; Trustee, Muskingum Coll.; Dir. Detroit Symphony Orchestra; mem. Business Advisory Council of Kent State Univ., Merrill-Palmer Inst., Exec. Cttee. of U.S. Council of ICC; Meritorious civilian service award, U.S. Navy 1953, 1st William A. Jump memorial award 1950; Hon. D.H. (Muskingum Coll.) 1974. *Address:* Ford Motor Co., American Road, Dearborn, Mich. (Office); Bloomfield Hills, Mich., U.S.A. (Home).

CALIFANO, Joseph Anthony, Jr., A.B., LL.B.; American lawyer and government official; b. 15 May 1931, Brooklyn, New York; s. of Joseph A. and Katherine Gill Califano; m. Gertrude Zawacki 1955; two s. one d.; ed. Holy Cross Coll. and Harvard Univ.; admitted to New York Bar 1955; U.S. Naval Reserve 1955-58; with firm Dewey Ballantine, Bushby, Palmer and Wood, New York 1958-61; Special Asst. to Gen. Counsel, Dept. of Defense 1961-62; Special Asst. to Sec. of Army 1962-63; Gen. Counsel, Dept. of Army 1963-64; Special Asst. to Sec. and Deputy Sec. of Defense 1964-65; Special Asst. to Pres. 1965-69; Sec. of Health, Educ. and Welfare 1977-; admitted to U.S. District Court; U.S. Court of Appeals for 2nd Circuit; U.S. Supreme Court Bar 1966; mem. Fed. Bar Assn., American Bar Assn., American Judicature Soc.; mem. firm Arnold & Porter 1969-71; Williams, Connolly & Califano 1971-77; General Counsel, Democratic Nat. Cttee. 1970-72; mem. Democratic Party's Nat. Charter Comm. 1972-74; mem. Board Overseers Law School Visiting Cttee. Harvard Univ., Child Welfare League; mem. Annual Corp. Bd. of Children's Hospital, Washington, D.C.; mem. Bd. of Dirs. Federal City Club and of Trustees of Mater Dei School, Washington, D.C.; Distinguished Civilian Service Medal, Dept. of Army 1964, Dept. of Defense 1968; Man of Year Award, Justinian Soc. Lawyers 1966. *Publications:* The Student Revolution, A Global Confrontation 1969, A Presidential Nation 1975, The Media and the Law (with Howard Simons) 1976; numerous articles for various newspapers and other publications. *Leisure interest:* writing. *Address:* Department of Health, Education and Welfare, Washington, D.C. 20006 (Office); 3551 Springland Lane, N.W., Washington, D.C. 20008, U.S.A. (Home).

CALIFICE, Alfred; Belgian politician; b. 2 Oct. 1916, Melen; m. Marcelle David; four d.; Publicity section, Jeunesse Ouvrière Chrétienne 1937-40; local govt. employee 1940-42; Sec. Fédération des Syndicats Chrétiens, Charleroi district 1944-65; mem. Parl. 1965-, of European Parl. 1968-72; Sec. of State for Housing and Planning 1972-73; Minister of Public Works 1973-74, of Employment and Labour, Walloon Affairs, Planning and Housing 1974-77, for Social Security June 1977-. *Address:* Ministry of Social Security, Brussels (Office); 13 rue du Transvaal, 6090 Couillet, Belgium (Home).

CALKINS, Robert D., M.A., LL.D., PH.D.; American economist; b. 19 Jan. 1903, Lebanon, Conn.; s. of Robert D. Calkins and Ethel Mae (Chambers); m. 1929; one s. one d.; ed. Coll. of William and Mary, and Stanford Univ.; Research Assoc., Food Research Inst., Stanford 1925-27, 1930-32; Teaching Asst. and Instructor, Stanford 1929-31; Asst. Prof. of Econs., Univ. of Calif. 1932-36, Assoc. Prof. 1936-40, Prof. 1940-41, Chair. of Dept. of Econs. 1935-41, Dean, Coll. of Commerce 1937-41; Prof. and Dean, School of Business, Columbia Univ. 1941-46; Vice-Pres. and Dir. Gen. Educ. Board, New York 1947-52; Pres. The Brookings Inst., Washington, D.C. 1952-67, Dir. 1952-; Vice-Chancellor, Social Sciences and Prof. of Econs., Univ. of Calif., Santa Cruz 1967-70; Dir. New York Fed. Reserve Bank 1943-49; Mediator, War Labor Board 1942-45; Consultant to Nat. Resources Planning Board 1940-42, Office of Price Admin. 1942, War Dept. 1942, etc. *Address:* Brookings Institution, 1775 Massachusetts Avenue, Washington, D.C. 20036 (Office); 5415 Connecticut Avenue, Washington, D.C. 20015, U.S.A. (Home).

CALLAGHAN, Rt. Hon. (Leonard) James, P.C. M.P.; British politician; b. 27 March 1912, Portsmouth; m. Audrey Elizabeth Moulton 1938; one s. two d.; ed. Portsmouth Northern Secondary School. Tax Officer 1929; Asst. Sec. Inland Revenue Staff Assn. 1936-47; service in Royal Navy 1939-45; M.P. 1945-; Parl. Sec. Ministry of Transport 1947-50; Parl. and Financial Sec., Admiralty 1950-51; Chancellor of the Exchequer 1964-67; Home Secretary 1967-70; Sec. of State for Foreign and Commonwealth Affairs 1974-76; Leader of Parl. Labour Party April 1976-; Prime Minister 1976-79; Leader of the Opposition May 1979-; mem. Consultative Ass., Council of Europe 1948-50, 1954; Chair. Co-ordinating Advisory Cttee. on Oil Pollution of the Sea 1953-64; Consultant to Police Fed. 1955-64; mem. Nat. Exec. Cttee. Labour Party; Treas. Labour Party 1967-76, Chair. 1973-74; Hon. Life Fellow, Nuffield Coll., Oxford 1967; Pres. U.K. Pilots' Assn. 1963-76; Hon. Pres. Int. Maritime Pilots' Assn. 1971-76; Freedom of City of Cardiff 1975; Hon. Master of the Bench of the Inner Temple 1976; Hubert Humphrey Int. Award 1978; Freeman of Sheffield 1978; Hon. LL.D. (Univ. of Wales) 1976, Hon. LL.D. (Sardar Patel Univ., India) 1978. *Publication:* A House Divided 1973. *Address:* House of Commons, Westminster, London, S.W.1, England.

CALLAGHAN, Morley (Edward); Canadian novelist; b. 1903; ed. St. Michael's Coll., Univ. of Toronto, and Osgoode Hall Law School. Canada Council Medal Winner 1966; Royal Bank of Canada Award 1970. *Publications:* Strange Fugitive 1928, Native Argosy 1929, It's Never Over 1930, No Man's Meat 1931, Broken Journey 1932, Such is My Beloved 1934, They Shall Inherit The Earth 1935, More Joy in Heaven 1936, Now that April's Here 1937, Jake Baldwin's Vow (for children) 1948, The Varsity Story 1948, The Loved and the Lost 1955, The Man with the Coat 1955, A Many Coloured Coat 1960, A Passion in Rome 1961, That Summer in Paris 1963, Morley Callaghan Vols. I and II 1964. *Address:* 20 Dale Avenue, Toronto, Ontario, Canada.

CALLAN, Harold Garnet, M.A., D.SC., F.R.S.; British professor of zoology; b. 5 March 1917, Maidenhead, Berks.; s. of Garnet George Callan and Winifred Edith (née Brazier); m. Amarillis M. S. Dohrn 1944; one s. two d.; ed. King's Coll. School, Wimbledon, and St. John's Coll., Oxford; served Second World War, Telecommunications Research Establishment 1940-45; Senior Scientific Officer, Agricultural Research Council, Inst. of Animal Genetics, Edinburgh 1946-50; Prof. of Natural History, St. Salvator's Coll., St. Andrews 1950-; Master of United Coll. of St. Salvator's and St. Leonard's 1967-68; mem. Advisory Council on Scientific Policy 1963-64; Trustee, British Museum (Natural History) 1963-66; Visiting Prof., Univ. of Indiana 1964-65; mem. Science Research Council 1972-76; mem. Council Royal Soc. 1974-76. *Publications:* Scientific papers, mostly on cytology and cell physiology. *Leisure interests:* shooting, carpentry. *Address:* Zoology Department, University, St. Andrews; 2 St. Mary's Street, St. Andrews, Scotland (Home). *Telephone:* St. Andrews 2823 (Office); St. Andrews 2311 (Home).

CALLARD, Sir (Eric) John, Kt., M.A., C.ENG., F.I.MECH.E., F.R.S.A.; British business executive; b. 15 March 1913, Torquay, Devon; s. of late Frank and Ada Mary Callard; m. Pauline Mary Pengelly 1938; three d.; ed. Queen's Coll., Taunton, St. John's Coll., Cambridge. Chair. Imperial Chemical Industries Ltd. (ICI), Paints Div. 1951-55, Man. Dir. 1955-59, Chair. 1959-64; Dir. ICI Ltd. 1964-75, Deputy Chair. 1967-71, Chair. 1971-75; Dir. Pension Funds Securi-

ties Ltd. 1963-67, Imperial Metal Industries 1964-67, Imperial Chemical Insurance 1966-70; Chair. ICI (Europa) Ltd. 1965-67; mem. Council Univ. of Manchester, Manchester Business School 1964-71, Vice-Pres. 1971-; mem. Council, British Inst. of Management 1964-69, Fellow 1966-; mem. Council, Export Council for Europe 1966-71; Chair. Industrial Co-partnership Assn. 1967-71; Pres. Industrial Participation Assn. 1971-; mem. Council of Industry for Man. Educ. 1967-73; Co-opt mem. Univ. of Cambridge Appointments Board 1968-71; Vice-Pres. Combustion Eng. Assn. 1968-75; Dir. Midland Bank Ltd. 1971-, Equity Bank 1976-, British Home Stores 1975-, Chair. 1976-; Gov. London Graduate School of Business Studies 1972-75. *Leisure interests:* games, gardening, fell walking. *Address:* Farthings, Jordans, nr. Beaconsfield, Bucks., England (Home).

CALLAWAY, Howard H.; America public official; b. 2 April 1927, LaGrange, Georgia; s. of Cason J. Callaway and Virginia Hand Callaway; m. Elizabeth Walton 1949; three s. two d.; ed. U.S. Military Acad. served in Infantry, participating in Korean War in Far Eastern Command, later becoming Instructor, Infantry School, Fort Benning, Ga. 1949-52; mem. 89th Congress, rep. third district of Georgia 1965-66; Republican candidate for Gov. of Georgia 1966; Civilian Aide for Third Army Area 1970-73; Sec. of the Army May 1973-75; fmr. Campaign Man. for President Ford, 1976 Pres. Election; Chair. Interfinancial Inc. of Atlanta; fmr. mem. Board of Regents Univ. System of Nat. 4-H Service Cttee., Board of Trustees, Nat. Recreation Assn., Ida Cason Callaway Foundation. *Leisure interests:* skiing, sailing, tennis, trout fishing. *Address:* P.O. Box 528, Mt. Crested Butte, Colo. 81224, U.S.A. *Telephone:* (303) 349-6611.

CALMANN-LÉVY, Robert Paul Michel; French publisher; b. 20 Oct 1899. Dir. Calmann-Lévy, publishers of French and foreign books. *Address:* 3 rue Auber, 75009 Paris, France.

CALMES, Christian, D. en D.; Luxembourg lawyer and civil servant; b. 11 July 1913, Oberursel, Germany; s. of Albert Calmes; m. Anne Raus 1939; three s. two d.; ed. Echternach Gymnasium, Strasbourg and Paris Univs.; called to the Bar 1938; successively Attaché, Sec., Counsellor and Minister Plenipotentiary, Ministry of Foreign Affairs; Sec.-Gen. Special Council of Ministers of ECSC 1952-58, Council of Ministers of European Communities (ECSC, EEC, and EURATOM) 1958-73, Hon. Sec.-Gen. 1973-; mem. historic section of Institut Grand-Ducal de Luxembourg, Conseil pour la Recherche Scientifique; Hon. Minister Plenipotentiary; Chamberlain to H.R.H. The Grand-Duke of Luxembourg. *Publications:* Geôles sanglantes 1948, 1967, L'affaire du Luxembourg 1967, Le Luxembourg dans la guerre de 1870 1970, Au fil de l'histoire Tome 3 1970, 1914-1919: Le Luxembourg au centre de l'annexionnisme belge 1976, Fil de l'histoire 1977, Fil de l'histoire 1978. *Leisure interest:* history. *Address:* Ehnen, Luxembourg, Grand Duchy of Luxembourg. *Telephone:* 761 33.

CALMON DE SÁ, Ângelo; Brazilian banker and politician; b. 1 Nov. 1935, Salvador; s. of Francisco de Sá and Maria dos Prazeres Calmon de Sá; m. Ana Maria Carvalho de Sá 1962; two s. two d.; ed. Univ. Federal da Bahia. Sec. of Industry and Commerce, Bahia State 1967-70, Sec. of Finance 1970-71; Minister of Industry and Commerce 1977-; Pres. Econômico S.A. 1971-74, Banco do Brasil S.A. 1974-77; Pres. Bahia Assn. of Banks 1972-74; Vice-Pres. Bahia Assn. of Commerce 1972-74; Dir. Nat. Fed. of Banks 1973-74; Chair. European Brazilian Bank 1974-; Dir. Cie. Arabe et Internationale d'Investissement 1974-, Euro-Latinamerican Bank Ltd, 1974-; several Brazilian honours. *Publications:* study on the Bank of Brazil as an agent of development and a factor of national integration. *Leisure interests:* riding, tennis, golf. *Address:* Ministério de Indústria e Comércio, Esplanada dos Ministérios, Bloco 6, Brasília, D.F., Brazil.

CALOGERO, Guido; Italian philosopher and university professor; b. Dec. 1904; fmr. Prof., Florence and Pisa Univs.; one of the leaders of Liberal-Socialist Movement, arrested 1942 as anti-Fascist; Editor for the section of philosophy of Italian Encyclopaedia; Visiting Prof. of Philosophy, McGill Univ., Montreal 1948-49; Dir. Italian Inst., London 1950-55; Visiting Prof. of Philosophy, Univ. of Calif., Berkeley 1956-57; mem. Inst. for Advanced Study, Princeton 1962-63; Pres. Inst. Int. de Philosophie 1963-66; fmr. Prof. of Philosophy, Rome Univ. *Publications:* I fondamenti della logica aristotelica 1927, Studi sull'Eleatismo 1932, La scuola dell'uomo 1939, Lezioni di Filosofia 1948-48, Logo e Dialogo 1950, Scuola sotto inchiesta 1957, Filosofia del Dialogo 1962. *Address:* Via S. Alberto Magno 5, Rome, Italy.

CALVANI, Aristides, D.IUR.; Venezuelan politician; b. 19 Jan. 1918, Port of Spain, Trinidad; m. Adelita Abbo de Calvani; seven s.; ed. Univ. de Louvain, Belgium and Univ. Central de Venezuela. Teacher San Ignacio Coll., Caracas 1941-46, 1948-51; Prof. of Law and Philosophy of Law, Univ. Central de Venezuela 1947-; Prof. of Law, Univ. Católica Andrés Bello 1953-59; Founder, Dir. School of Social Sciences, Univ. Católica Andrés Bello 1959-69; Pres. Inst. de Formación Demócrata Cristiana 1962-69; Speaker, Court of Cassation, also Vice-Pres. 1958, fmr. Pres. of Civil Hall; Deputy for Partido Social-Cristiano (COPEI) 1959-62; Minister for Foreign Affairs 1969-74; has represented Venezuela at numerous int. confs., including Thirteenth Consultative Conference of Foreign Ministers, Washington, D.C. 1969, Gen. Ass. of UN 1969, 1970, 1972, Gen. Ass. of OAS 1970, 1971, 1973, Twelfth Conf. of Comisión Especial de Coordinación Latino-americana 1971, Third Conf. of UNCTAD 1972; Legal Assessor Movimento Sindical Cristiano 1951-; Co-founder Inst. Nacional de Estudios Sindicales 1961; organizer of Movimiento Familiar Cristiano in Venezuela, Pres. 1959-61; numerous decorations from European and Latin American countries. *Address:* c/o Universidad Central de Venezuela, Ciudad Universitaria, Caracas, Venezuela.

CALVET, Pierre Louis, LL.L.; French civil servant; b. 27 June 1910, Troyes; m. Luce Petitjean-Saglio 1933; one s. one d.; ed. Lycée Buffon, Law Faculty, Univ. of Paris, Ecole Libre des Sciences Politiques. Financial Insp. 1933; Financial Attaché, London 1945; Gen. Dir. Office des Changes 1947; Vice-Pres. European Payments Union 1950; Deputy Gov. Bank of France 1952; Vice-Pres. Banque Nationale de Paris 1966-70, Admin. 1971-; mem. Council Nat. Museums; Commdr. Légion d'honneur, Grand Officier Ordre national du mérite, Order of Orange-Nassau; Officier Ordre de Léopold; Grand Officer, Order of Merit (Italian Repub.). *Leisure interests:* reading, walking, music. *Address:* Banque Nationale de Paris S.A., 16 Boulevard des Italiens, 75009 Paris (Office); 33-35 rue de Valois, 75001 Paris, France (Home). *Telephone:* 261-54-54 (Office); 261-49-14 (Home).

CALVET DE MAGALHÃES, José; Portuguese diplomatist; b. 2 Oct. 1915, Lisbon; s. of Manuel de Faria e Sousa Calvet de Magalhães and Judith de Sousa Cabral; m. Linda Calvet de Magalhães 1946; one s.; ed. Univ. of Lisbon; entered Foreign Service 1941, served New York, Boston, Canton, Paris; mem. Del. to NATO 1952-56; Minister and Head of Del. to OEEC 1956-60, Amb. to OEEC 1960-61, to OECD 1961-64; Head, Del. to ECSC 1959-64; Amb. to EEC and EURATOM 1962-64; Dir.-Gen. Econ. Affairs 1964-71, Sec.-Gen. 1971-74; Amb. to Holy See 1974-; Pres. Grêmio Literário of Lisbon 1969-71; Grand Cross, Cross of the South and Grand Cross Order of Rio Branco (Brazil), Grand Cross, Order of Merit and Grand Cross Order of Isabel la Católica (Spain), Grand Officer, Order of Merit (Fed. Repub. of Germany), Grand Cross, Order of the Falcon (Iceland), Grand Cross Pro Merito Melitensis Order of Malta, Grand Cross of Christ (Portugal). *Publications:* The Criminal Responsibility of Doctors in Case of the Patients' Death 1944, Anthero de Quental and Socialism 1945, José Accursio das Neves (anthology and introduction) 1945, Anthero de Quental (anthology and introduction) 1946, History of Economic Thought in Portugal 1967. *Address:* Portuguese Embassy, Villa Lusa, Via S. Valentino 9, 00197 Rome, Vatican City, Italy.

CALVIN, Melvin, PH.D.; American chemist; b. 8 April 1911, St. Paul, Minnesota; s. of Elias and Rose (Hervitz) Calvin; m. Marie Genevieve Jemtegaard 1942; one s. two d.; ed. Michigan Coll. of Mining and Technology and Univ. of Minnesota. Instructor Dept. of Chemistry, Univ. of Calif., Berkeley 1937-40, Asst. Prof. 1941-45, Assoc. Prof. 1945-47, Prof. 1947-, Univ. Prof. of Chemistry 1971–; Dir. Chem. Biodynamics Group, Lawrence Radiation Lab. 1946–; nat. defence work 1941-45; Dir. Lab. of Chem. Biodynamics, Univ. of Calif., Berkeley 1960-; Assoc. Dir. Lawrence Radiation Lab., Berkeley 1967-; selected to carry out research on lunar samples from Apollo XI, XII; non-Exec. Dir. Dow Jones; mem. N.A.S.; Foreign mem. The Royal Soc.; recipient of several scientific awards; Nobel Prize for Chemistry 1961; Davy Medal, Royal Soc. 1964. *Publications:* The Theory of Organic Chemistry (with G.E.K. Branch) 1941, Isotopic Carbon (with Heidelberger, Reid, Tolbert and Yankwich) 1949, The Chemistry of the Metal Chelate Compounds (with Martell) 1952, The Path of Carbon in Photosynthesis (with Bassham) 1957, Chemical Evolution 1961, 1969, Photosynthesis of Carbon Compounds (with Bassham) 1962, Chemical Evolution: Molecular Evolution towards the Origins of Living Systems on Earth and Elsewhere 1969. *Address:* Laboratory of Chemical Biodynamics, University of California, Berkeley, Calif. 94720 (Office); 2683 Buena Vista Way, Berkeley, Calif., U.S.A. (Home).

CALVINO, Italo; Italian writer; b. 15 Oct. 1923, San Remo; m. Chichita Singer 1964; one d. mem. of editorial staff Giulio Einaudi Editore. *Publications:* Il Sentiero dei Nidi Ragno 1947, Ultimo viene il Corvo 1949, Il Visconte dimezzato 1952, L'Entrata in Guerra

1954, Fiabe Italiane 1956, Il Barone Rampante 1957, I Racconti 1958, Il Cavaliere Inesistente 1959, La Giornata di uno Scrutatore 1963, Marcovaldo 1963, Le Cosmicomiche 1966, Ti con zero 1967, Le Città Invisibili 1973, Il Castello dei Destini Incrociati 1974. *Address:* c/o Giulio Einaudi Editore, Turin, Italy.

CALVO-SOTELO BUSTELO, Leopoldo; Spanish engineer and politician; b. 14 April 1926, Madrid; m.; eight c.; ed. Escuela de Ingenieros de Caminos, Canales y Puertos, Madrid. Pres. Spanish Railways 1967-68; now Adviser, Unión Explosivos Rio Tinto; Procurador 1971-; Minister of Commerce 1975-76, of Public Works 1976-77; with Ministry for Relations with European Communities 1978-. *Address:* Ministerio para Relaciones con la CEE, Madrid, Spain.

CALVOCORESSI, Peter; British writer and book publisher; b. 17 Nov. 1912, Karachi, India; s. of Pandia J. Calvocoressi and Irene (Ralli); m. Barbara Dorothy Eden 1938; two s.; ed. Eton Coll. and Balliol Coll., Oxford; called to Bar 1935; R.A.F. Intelligence 1940-45; assisted Trial of Major War Criminals, Nuremberg 1945-46; on staff, Royal Inst. of Int. Affairs 1949-54; partner Chatto & Windus, publishers 1955-65; Reader in Int. Relations, Sussex Univ. 1965-71; Editorial Dir. Penguin Books 1972, Publisher and Chief Exec. 1973-76; mem. UN Sub-comm. on the Prevention of Discrimination 1961-71; Chair. The London Library 1970-73. *Publications:* Nuremberg: The Facts, the Law and the Consequences 1947, Survey of International Affairs: Vols. for 1947-48, 1949-50, 1951, 1952 and 1953, Middle East Crisis (with Guy Wint) 1957, South Africa and World Opinion 1961, World Order and New States 1962, World Politics Since 1945 1968, Total War (with Guy Wint) 1972, The British Experience: 1945-75. *Leisure interests:* music, tennis. *Address:* Guise House, Aspley Guise, Milton Keynes, MK17 8HQ, England.

CAMARA, Assan Musa; Gambian politician; b. 1923, Mansajang; ed. St. Mary Anglican Mission School, Bathurst (now Banjul) and Anglican Mission School, Kristu Kunda. Teacher in govt. and mission schools 1948-60; mem. House of Assembly (Independent) 1960-; Minister without Portfolio 1960; Minister of Health and Labour 1960-62, of Educ. and Social Welfare 1962-65, of Works and Communications 1965-66, of Educ., Labour and Social Welfare 1966-68, of External Affairs 1968-74, of Local Govt. and Lands 1974-77, of Educ., Youth and Sports 1977, of Finance and Trade 1977-79; Vice-Pres. of The Gambia 1973-77, 1978-; Order of the Cedar of Lebanon, Commdr. Nat. Order of Senegal, Grand Band, Order of Star of Africa, Grand Cross, Brilliant Star of China. *Address:* Office of the Vice-President, Banjul, The Gambia.

CÂMARA, Most Rev. Helder Pessoa; Brazilian (Roman Catholic) ecclesiastic; b. 7 Feb. 1909, Fortaleza; ordained priest 1931; consecrated Bishop 1952; Titular Bishop of Salde 1952; Titular Archbishop of Salde 1955-64; Archbishop of Olinda and Recife 1964-; organized Brazilian Conf. of Bishops and co-operated in ogranization of CELAM (the Latin-American Conf. of Bishops); an active campaigner for social reform in Latin-America; René Sande Award 1962, Via Int. Peace Prize (Italy) 1970, Martin Luther King Jr. Award 1970, John XXII Memorial Award from Pax Christi, Spain 1970; Dr. h.c. (Univs. of St. Louis, Louvain, Münster, Fribourg and Sorbonne); People's Peace Prize 1974. *Address:* Rua do Giriquiti 48, Recife, Pernambuco, Brazil.

CAMARGO, Sérgio de; Brazilian sculptor; b. 1930; ed. Academia Altamira, Buenos Aires, and Univ. de Paris à la Sorbonne; in France 1948-50, 1951-54, 1961-; visited China 1954; specializes in wood reliefs; Int. Sculpture Prize, Paris Biennale 1963; works are in permanent collections of Nat. Museum of Art, Rio de Janeiro, Museum of Art, São Paulo, Musée d'Art Moderne de la Ville de Paris, Tate Gallery, London, Galleria d'Arte Moderna, Rome, and in numerous private collections; represented in exhbns. in Paris and Brussels 1963, Mannheim, Arras, London and Paris 1964, 1974, New York 1965, and Latin-American exhbns. 1954-.

CAMBANELLIS, Iakovos; Greek writer and film director; b. 1922. *Publications:* Plays include: Dance on the Sheaves 1950, The Seventh Day of Creation 1956, The Courtyard of Miracles 1957, Story Without a Title 1959, Neighbourhood of Angels 1963; film scripts for Stella, The River, Snowdrop; dir. of films including documentary The Root; regular contributor to Greek Radio and Eleftheria. *Address:* Dervenion 19, Athens, Greece.

CAMBOURNAC, Francisco José Carrasqueiro, M.D.; Portuguese medical scientist; b. 26 Dec. 1903, Rio de Mouro (Sintra); s. of Pedro Roque Cambournac and Maria Carlota Carrasqueiro; m. Maria Estefânia Cambournac 1934; one d.; ed. Lisbon Univ. Lisbon, Paris, Hamburg and London Schools of Hygiene and Tropical Medicine, League of Nations Malaria Training Course, France, Yugoslavia and Italy. Fellow and staff mem. Rockefeller Foundation, engaged mainly on malaria research and teaching 1934-41; Assoc. Prof. of Hygiene, Public Health and Climatology, Lisbon Inst. of Tropical Medicine 1942-44, Prof. 1944-, Dir. 1964–; also Dr. Portuguese Malaria Inst. 1938-53; del. to Int. Health Conf., New York 1946; mem. del. to World Health Ass. 1947-53; mem. WHO Expert Panel on Malaria 1948-53; Head del. WHO Cttee. for S.E. Asia 1949, Africa 1951-53; WHO Consultant for Africa 1949 to prepare first African Malaria Conf. 1950; Chief Epidemiological Services Mission of Angola, Co-ordinator yellow fever survey of Angola, Mozambique and São Tomé and Principe 1950-54; mem. CCTA, African Scientific Council (CSA), Admin. Inst. des Parcs Nat. du Congo et du Rwanda 1959-67; Dir. WHO Regional Office for Africa 1954-64; mem. WHO Expert Panel Public Health Admin. 1964-; Pres. of the Direction of Liga Portuguese de Educação Sanitaria 1964-67, Sociedade Portuguesa de Medicina Tropical (Secção de Medicina Tropical de Sociedade de Ciências Médicas) 1964-67; Dir. and Prof. Public Health in Tropical Regions, Escola Nacional de Saúde Pública e de Medicina Tropical 1967-72; Prof. Discipline of Public Health, Head Dept. of Public Health, and Dir., Inst. de Higiene e Medicina Tropical 1972-73; Vice-Pres. Council of European Schools and Insts. of Tropical Medicine and Hygiene 1971-72, Pres. Local Organizing Cttee. 1972; mem. Int. Interim Cttee. of the Int. Congresses of Tropical Medicine and Malaria 1973; mem. WHO Int. Ind. Comm. for Assessment of Smallpox Eradication in the Americas 1973; Pres. of Tech. Board Escola de Ensino e Administração de Enfermagem; mem. Tech. Board Escola de Enfermagem de Saúde Pública; mem. Scientific Advisory Council, Int. Green Cross; Hon. Fellow American Public Health Assen.; Hon. mem. Assen. de Especialistas de Análises Clínicos (Spain); Hon. mem. Soc. Belge de Médecine Tropicale; Hon. mem. Société de Pathologie Exotique 1967; mem. Hon. Cttee. Assen. Provence-Portugal; mem. Comissão Regional da Especialidade de Doenças Tropicais (Ordems dos Médicos), American Soc. of Tropical Medicine, American Mosquito Control Assen., Int. Epidemiological Assen.; Corresp. mem. German Tropical Medicine Assen., etc.; mem. Scientific Cttee., Médecine d'Afrique Noire, O Médico, Revista di Malariologia; Encomienda con-placa Orden Civil de Sanidad (Spain), Comendador Ordem Sant'Iago da Espada (Portugal) 1973; Commendadore dell'Ordine della Corona d'Italia; Leon Bernard Prize 1978. *Publications:* More than 150 papers, particularly on epidemiology, parasitology, entomology, public health, nutrition, health education, malaria, sleeping sickness and relapsing fever. *Leisure interests:* natural history, animal (especially bird) photography. *Address:* Instituto de Higiene e Medicina Tropical, Rua da Junqueira 96, Lisbon 3 (Office); Rua de S. Francisco de Sales 17, 6 Esq. Lisbon 1, Portugal (Home). *Telephone:* 632141 (Office); 650575 (Home).

CAMBRONNE, Luckner J.; Haitian politician; b. 24 Oct. 1930, Arcahaie, Port-au-Prince; s. of Pierre Cambronne and Romaine (née Bernadotte); m.; three s. two d.; ed. Lycée Pétion, Port-au-Prince. Private Sec. to Pres. François Duvalier 1957-60; Minister of Public Works 1960-64; Deputy Nat. Assistant 1961-73; Minister of Interior and Defence 1971-72; Amb.-at-large and Insp.-Gen. of Embassies and Consulates in the Americas 1973.

CAMDEN, John, B.SC.; British civil engineer; b. 18 Nov. 1925, Malvern, Worcs.; s. of late Joseph R. R. J. Camden and of Lilian Kate McCann; m. 3rd Diane Mae Yarbrough 1972; one s. four d.; ed. Worcester Royal Grammar School, Birmingham Univ. Royal Tank Corps and Intelligence Corps 1943-47; joined Ready Mixed Concrete Group 1952, Dir. European Operations 1962, Group Man. Dir. 1966-, Chair. 1974-; Grand Decoration of Honour in Silver (Austria). *Leisure interests:* golf, gardening. *Address:* Ready Mixed Concrete Ltd., RMC House, 53-55 High Street, Feltham, Middx. (Office); Westbourn, Wentworth, Surrey, England (Home).

CAMERON, Clyde Robert; Australian politician; b. 11 Feb. 1914; ed. Gawler High School, South Australia; worked in shearing sheds 1928-38; Organizer Adelaide Branch, Australian Workers' Union 1938, Sec. 1941-49; Fed. Vice-Pres. AWU 1942-50; Industrial Officer 1944-48; mem. House of Reps. for Hindmarsh 1949-; mem. Fed. Parl. Labor Party Exec. 1953-; Minister for Labor 1972-75, and for Immigration 1974-75, of Science and Consumer Affairs June-Nov. 1975; parl. del. to UN Gen. Assembly 1976; mem. S.A. Broadcasting Advisory Cttee. 1945-49, 1964-; Pres. S.A. Branch, Australian Labor Party 1946-47, 1958, 1963; Labor Party. *Address:* Parliament House, Canberra, A.C.T. 2600, Australia.

CAMERON, Donald Alastair, O.B.E., M.B., B.S.; Australian physician and politician; b. 17 March 1900, Ipswich, Queensland; s. of Dr. J. A. Cameron; m. Rhoda McLean 1933; one s. one d.; ed. Sydney Univ. fmr. Hon. Medical Officer, Ipswich Hospital; served Second World War; mem. Fed. Parl. for Oxley, Queensland 1949-

61; Minister for Health 1956-61; Minister in Charge Commonwealth Scientific and Industrial Research Org.; High Commr. in New Zealand 1962-65; Pres. Queensland Branch Australian Medical Assn.; mem. Liberal Party of Australia. *Leisure interest:* sailing. *Address:* 43 Sefton Road, Clayfield, Brisbane, Queensland 4011, Australia.

CAMERON, James, C.B.E.; British author and journalist; b. 17 June 1911, London; s. of William Ernest Cameron and Margaret Douglas Robertson; m. 1st Elma Murray 1939 (deceased), 2nd Elizabeth O'Conor 1944 (divorced), 3rd Moneesha Sarkar 1971; one s. one d. two step s. one step d.; ed. in France and Scotland. started work on Dundee newspapers 1927; in London associated with News Chronicle as Chief Foreign Corresp.; freelance work; opened BBC TV Series One Pair of Eyes, then films Cameron Country; currently working on books and on radio; Hon. D.Lit. (Lancaster), Hon. D.Litt. (Bradford), Hon. D. Univ. (Essex); Granada Journalist of the Year 1966, Granada Foreign Corresp. of the Decade 1967, Prix Italia 1974. *Publications:* Touch of the Sun 1950, Mandarin Red 1955, 1914 1959, The African Revolution 1961, 1916 1962, Witness 1968, Point of Departure 1969, What a Way to Run a Tribe 1969, An Indian Summer 1975, The Making of Israel 1976. *Address:* 3 Eton College Road, London, N.W.3., England. *Telephone:* 01-586 5340.

CAMERON, Marshal of the Royal Air Force Sir Neil, G.C.B., C.B.E., D.S.O., D.F.C.; British air force officer; b. 8 July 1920, Perth, Scotland; s. of Neil and Isabella Cameron; m. Patricia Louise Asprey 1947; one s. one d.; ed. Perth Acad. R.A.F. Fighter and Fighter Bomber Squadrons 1940-45; Directing Staff, School of Land/Air Warfare 1945-48; student R.A.F. Staff Coll. Andover 1948-49; Air Ministry 1950-53; Dir. of Staff R.A.F. Staff Coll. 1953-55; Commanding Officer Unit of London Air Squadron 1956-58; Personal Staff Officer to Chief of Air Staff 1958-60; Station Commdr. R.A.F. Abingdon 1960-62; student at Imperial Defence Coll. 1963; Principal Staff Officer to Deputy Commdr. SHAPE 1964; Asst. Commdt. R.A.F. Coll. Cranwell 1965-66; R.A.F. mem. of Programme Evaluation Group Ministry of Defence 1966-68; Asst. Chief of Defence Staff (Policy) 1968-70; Sr. Air Staff Officer, Air Support Command 1970-72; Deputy Commdr. R.A.F. Germany 1972-73; Air Officer Commanding 46 Group 1973-74; Air mem. for Personnel 1974-76; Chief of Air Staff 1976-77; Chief of Defence Staff 1977-79. *Leisure interests:* reading, rugby football, defence affairs. *Address:* c/o Ministry of Defence, Main Building, Whitehall, London, SW1A 2HB, England.

CAMERON, Roy James, M.ECON., PH.D.; Australian government official; b. 11 March 1923, S. Australia; s. of Kenneth and Amy Jean Cameron (née Davidson); m. Dorothy Olive Lober 1951; two s. one d.; ed. Univs. of Adelaide and Harvard, U.S.A. Lecturer in Econs., Canberra 1949-51; Economist Int. Bank for Reconstruction and Devt. 1955-56; with Australian Treasury 1956-73, First Asst. Sec., Transport and Industry Div. 1966-73; Amb., Del. to OECD 1973-77, Govt. Statistician 1977-. *Address:* Australian Bureau of Statistics, P.O. Box 10, Belconnen, A.C.T. 2616, Australia. *Telephone:* (062) 526705.

CAMMANN, Helmuth Carl, DR. RER. POL.; German economist; b. 8 Feb. 1927, Düsseldorf; s. of Carl Cammann and Maria Döpp; m. Helga Herweg 1957; one s. one d.; ed. Technological Univ., Karlsruhe and Cologne Univ. Foreign Trade and Balance of Payments Section, Econ. Research Inst., Essen 1950-53; Econ. Adviser, Perm. German Del. to OEEC 1953-56; Head of Div., Econ. Directorate, ECSC, Luxembourg 1956-57; Econ. Sec. Del. in U.K. of ECSC 1957-61; Head of Perm. Del. of EEC Comm. to OECD, Paris 1961-66; Sec.-Gen. Bundesverband deutscher Banken e.V., Cologne (Assen. of German Banks) 1966-. *Address:* Mohrenstrasse 35, Cologne, Federal Republic of Germany. *Telephone:* 16631.

CAMPAIGNE, Jameson Gilbert, B.A.; American editor and writer; b. 16 Jan. 1914, Brooklyn, N.Y.; s. of Curtis Campaigne and Edna Amory Foote; m. Edith Louise Baker 1938; three s. one d.; ed. Montclair Acad., Williams Coll.; salesman, Yardley & Co. 1936-40; writer with Compton Advertising 1940-44; U.S. Marine Corps 1944-46; Chief Editorial Writer, Indianapolis Star 1946-51, Editor, Editorial Page 1951-60, Editor 1960-69, editorial writer and columnist 1969-73; Editorial Writer, New York Daily News 1973-76; editorial consultant 1976-; mem. Mont Pelerin Soc.; Lincoln Nat. Life Foundation Award for best editorial on Lincoln; Freedoms Foundation Award for editorial writing 1951, 1952, 1957; Indiana Univ. World Affairs Award 1960. *Publications:* American Might and Soviet Myth 1960, Check-off 1961. *Address:* 565 Neptune Avenue, Encinitas, Calif. 92024, U.S.A.

CAMPBELL, Sir Alan Hugh, G.C.M.G.; British diplomatist; b. 1 July 1919, Worthing, Sussex; s. of Hugh Elphinstone and Ethel Marion (Warren) Campbell; m. Margaret Jean Taylor 1947; three d.; ed. Sherborne School and Cambridge Univ.; served in Devonshire Regt. 1940-46, Major 1945; Third Sec. in H.M. Foreign Service 1946; served in Singapore, Rome, Peking, New York, Paris and Foreign Office, London 1946-68; Amb. to Ethiopia 1969-72; Under-Sec, of State, Foreign Office (later Foreign and Commonwealth Office) 1972-76; Amb. to Italy 1976-79. *Leisure interests:* painting in water colours, lawn tennis. *Address:* c/o Foreign and Commonwealth Office, King Charles Street, London, S.W.1. (Office); 45 Carlisle Mansions, Carlisle Place, London, S.W.1. England (Home). *Telephone:* 01-834 2827 (London).

CAMPBELL, Hon. Alexander Bradshaw, P.C., Q.C., LL.B., LL.D.; Canadian lawyer and politician; b. 1 Dec. 1933, Summerside, P.E.I.; s. of late Thane A. Campbell and Cecilia Bradshaw; m. Marilyn Gilmour 1961; two s. one d.; practised law in Summerside, Prince Edward Island 1959-66; mem. P.E.I. Legislature 1965-78, Leader of Liberal Party for P.E.I. Dec. 1965-78; Premier of P.E.I. 1966-78; Minister of Devt. 1969-72, of Agriculture and Forestry 1972-74, Pres. Exec. Council, Minister of Justice, Attorney and Advocate-Gen. 1974-78; Justice, Supreme Court of P.E.I. 1978-; mem. Privy Council for Canada Jan. 1967-; mem. and fmr. Sec. Summerside Board of Trade; Past Pres. of Y's Men's Club; fmr. Vice-Pres. and Exec. mem. P.E.I. Young Liberal Assen.; Elder, United Church, Summerside; Hon. LL.D. (McGill). *Address:* 330 Beaver Street, Summerside, Prince Edward Island, Canada (Home).

CAMPBELL, Allan McCulloch, M.S., PH.D.; American professor of biology; b. 27 April 1929, Berkeley, Calif.; s. of Lindsay and Virginia Campbell; m. Alice Del Campillo 1958; one s. one d.; ed. Univ. of Calif. (Berkeley) and Univ. of Ill. Instructor in Bacteriology, Univ. of Mich. Medical School, Ann Arbor 1953-57; Research Assoc., Carnegie Inst. of Washington, Dept. of Genetics 1957-58; Asst. Prof. to Prof. of Biology, Univ. of Rochester, 1958-68; Prof. of Biological Sciences, Stanford Univ. 1968-; Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Univ. of Chicago) 1978. *Publication:* Episomes 1969. *Address:* Department of Biological Scienes, Stanford University, Stanford, Calif. 94305 (Office); 947 Mears Court, Stanford, Calif. 94305, U.S.A. (Home). *Telephone:* 497-1170 (Office); 493-6155 (Home).

CAMPBELL, Sir Clifford Clarence, G.C.M.G., G.C.V.O.; Jamaican teacher and administrator; b. 28 June 1892, Petersfield, Westmoreland; m. Alice Estephene 1920; two s. two d.; ed. Petersfield Elementary School and Mico Training Coll. Headmaster of various govt. schools 1916-44; mem. House of Reps. (Jamaica Labour Party) 1944-52; Chair. Cttee. for Educ. 1945-49; Speaker, House of Reps. 1950; Pres. of Senate 1962; Gov.-Gen. of Jamaica 1962-73. *Leisure interests:* music, painting, reading, agriculture, community and professional service. *Address:* 8 Cherry Gardens Avenue, Kingston 8, Jamaica.

CAMPBELL, Evan Roy, C.B.E.; Rhodesian farmer and business executive; b. 2 Sept. 1908, Johannesburg, South Africa; s. of Douglas John and Flora Campbell; m. Norah May Vaughan 1934; one s. one d.; ed. St. Andrews Coll., Grahamstown, Potchefstroom Agricultural Coll. Farmer, Umvukwes, Southern Rhodesia 1931-35, Inyazura 1935-65; Army service 1940-45; mem. Rhodesia Tobacco Assen. 1946-50, Vice-Pres. 1950-52, Pres. 1952-58; Chair. Tobacco Export Promotion Council 1958-63; Standard Bank Ltd., Commercial Union Assurance Co. of Rhodesia (Pvt.) Ltd., Fisons Pest Control (C.A.) (Pvt.) Ltd., Central African Branch of Inst. of Dirs. 1965-, Rhodesia Fertilizer Corpn. Ltd., and numerous other cos.; High Commr. of Southern Rhodesia in U.K. Dec. 1963-June 1965; Dir. Sable Chemical Industries Ltd., Discount Co. of Rhodesia Ltd., Leyland Motor Corpn. of Rhodesia Ltd., Messina Rhodesia Devt. Co. Ltd. *Address:* P.O. Box 373, Salisbury (Office); Courtney Rise, Addington Lane, Highlands, Salisbury, Rhodesia (Home). *Telephone:* Salisbury 707185 (Office); Salisbury 882715 (Home).

CAMPBELL, John Garfield, C.A.; Canadian business executive; b. 13 March 1916; ed. public and high schools, Regina, Saskatchewan. Audit Clerk, Rooke Thomas & Co., Regina 1935-41; Gen. Auditor, Defence Industries Ltd., Montreal 1941-46; Comptroller, Victory Mills Ltd. 1946-51; Comptroller Canadian Breweries Ltd. 1951; Pres. Victory Mills Ltd. 1952; Vice-Pres. Canadian Breweries Ltd. 1954-59, Exec. Vice-Pres. 1959-65, Pres. 1965-. *Address:* Canadian Breweries Ltd., 297 Victoria Street, Toronto 2, Ontario (Office); 18 Saintfield Avenue, Don Mills, Ontario, Canada (Home).

CAMPBELL, Nicholas Joseph, Jr., A.B., JUR.D., LL.D.; American lawyer and oil executive; b. 22 April 1915, Jersey City, N.J.; s. of Nicholas J. Campbell and Clara Campbell (née Zimmerman); m. Katherine M. Hickey 1944; one d.; ed. St. Vincent Coll., Latrobe, Pa., and Harvard Law School. Practising Attorney, Satterlee Warfield & Stephens, New York 1940-47; U.S.A.F. 1942-46; Counsel,

Creole Petroleum Corpn., New York 1947-50; Man. Law Dept., Creole Petroleum Corpn., Caracas, Venezuela 1951-56; Vice-Pres. and Dir. Creole Petroleum Corpn., New York 1956; Assoc. Gen. Counsel Exxon Corpn., fmr. Standard Oil Co. (N.J.), New York 1956-62; Dir. Esso Int. Inc., New York 1957-62; Dir. Esso Standard Sekiyu K.K. Tokyo, Japan 1962-64, Pres. 1963-64; Dir. Tøa Nenryo Kogyo K.K., Tokyo 1963-64; Exec. Asst. to L. W. Elliott (Exec. Vice-Pres. Standard Oil Co. (N.J.), New York, 1964-65; mem. Board of Dirs. Exxon Corpn., New York 1965-66; Dir. and Pres. Esso Europe Inc., London 1966-70; Dir. and Chair. Esso Africa Inc. and affiliated cos., London 1968-70; Dir. and Senior Vice-Pres. Exxon Corpn. 1971-76; Pres. Teagle Foundation 1977-; mem. Nat. Planning Assen., American Bar Assen., American Judicature Soc., Int. Bar Assen., Acad. Political Science, American Petroleum Inst. *Address:* 1251 Avenue of the Americas, New York, N.Y. 10020 (Office); 359 Hollywood Avenue, Crestwood, N.Y. 10707, U.S.A. (Home).

CAMPBELL, Ross, D.S.C.; Canadian government official and fmr. diplomatist; b. 4 Nov. 1918, Toronto, Ont.; s. of late William M. Campbell and Helen I. Campbell; m. Penelope Grantham-Hill 1945; two s.; ed. Univ. of Toronto Schools and Univ. of Toronto. Royal Canadian Navy 1940-45; joined Dept. of External Affairs, Canada 1945; Third Sec., Oslo 1946-47; Second Sec., Copenhagen 1947-50; European Div. Dept. of External Affairs, Ottawa 1950-52; First Sec., Ankara 1952-56; Head of Middle East Div., Ottawa 1957-59; Special Asst. to Sec. of State for External Affairs 1959-62; Asst. Under-Sec. of State for External Affairs 1962-64, Adviser to Canadian Dels. to UN Gen. Assemblies 1958-63, Adviser to Canadian Dels. to North Atlantic Council 1959-64; Amb. to Yugoslavia 1964-67, concurrently accred. to Algeria 1965-67; Perm. Rep. and Amb. to NATO, Paris May 1967, Brussels Oct. 1967-72; Amb. to Japan 1973-75 (concurrently accred. to Repub. of Korea 1973-74); Chair. Atomic Energy of Canada Ltd. *Leisure interests:* tennis, gardening. *Address:* Atomic Energy of Canada Ltd., 275 Slater Street, Ottawa, Ontario, Canada.

CAMPBELL OF CROY, Baron (Life Peer), cr. 1974; **Gordon Thomas Calthrop Campbell,** M.C.; British politician; b. 8 June 1921, Quetta, Pakistan; s. of Maj.-Gen. and Mrs. J. A. Campbell; m. Nicola Madan 1949; two s. one d.; ed. Wellington Coll.; served in regular army 1939-46 (rank of Maj.), wounded and disabled; diplomatic service 1946-57, mem. U.K. mission to UN 1949-52, Cabinet Office 1954-56; mem. Parl. for Moray and Nairn 1959-74; Lord Commr. of the Treasury 1962; Parl. Under-Sec. of State for Scotland 1963-64; Sec. of State for Scotland 1970-74; Opposition spokesman in House of Lords 1975-; mem. Select Cttee. on Europe 1978-; Chair. Scottish Board of Alliance Building Soc.; Chair. Scottish Council of Independent Schools; Consultant to Oil Industry, Dir. Stoic Insurance Services 1979-; Conservative. *Leisure interests:* music, birds. *Address:* Holme Rose, Cawdor, Nairn, Scotland. *Telephone:* Croy 223.

CAMPBELL OF ESKAN, Baron (Life Peer) cr. 1966, of Camis Eskan; **John (Jock) Middleton Campbell,** Kt.; British business executive; b. 8 Aug. 1912, London; s. of the late Colin Algernon Campbell and Mary C. G. Barrington; m. 1st Barbara N. Roffey 1938, two s. two d.; m. 2nd Phyllis J. Gilmour Taylor 1949; ed. Eton and Exeter Coll., Oxford. Chair., Booker McConnell Ltd. 1952-67, Pres. 1967-; Chair. Commonwealth Sugar Exporters 1950-, Statesman and Nation Publishing Co. 1963-, Milton Keynes Devt. Corpn. 1967-; fmr. Pres. W. India Cttee.; Dir. Commonwealth Devt. Corpn. 1968-; mem. Community Relations Comm. 1968-; Trustee Runnymede Trust, Chequers Trust. *Leisure interests:* reading, hitting balls, painting. *Address:* 15 Eaton Square, London, SQ1W 9DD (Office and Home); Crocker End House Nettlebed, Oxford, England (Home). *Telephone:* 01-839 5133 (Office); Nettlebed 202 (Country).

CAMPEN, Dr. Philippus Canisius Maria van; Netherlands business executive; b. 1 Jan. 1911, Nijmegen. Man. Co-operative Central Bank, Eindhoven 1946, Gen. Man. 1957-73; mem. Netherlands Senate and European Parl. until 1967; mem. Supervisory Board, N.V. Philips Gloeilampenfabrieken 1963-, Chair. 1968, now Vice-Chair.; Pres. Assen. Co-operative Credit Banks, EEC 1971; mem. Supervisory Board, Friesch-Groningsche Hypotheek Bank, Ballast Nedam (Chair.), D.S.M., Kas-Associatie. *Address:* Spechtlaan 9, Lieshout N. Br., Netherlands. *Telephone:* 04992-1517.

CAMPENHAUSEN, Hans Erich, Freiherr von, D.THEOL.; German university professor; b. 16 Dec. 1903, Rosenbeck, Livland; s. of Balthasar von Campenhausen and Lilli von Löwis of Menar; m. 1st Dorothee von Eichel 1931, 2nd Dorothee Anders 1966; three s. one d.; ed. Marburg, Heidelberg, Berlin and Rome. Lecturer in ecclesiastical history Marburg 1928-30, Göttingen 1930-35; Lecturer in Giessen, Kiel, Greifswald, Heidelberg and Vienna 1935-45; Prof. of Ecclesiastical History Heidelberg 1945-; Rector Univ. of Heidelberg 1946-47; mem. Heidelberg Akad. der Wissenschaften 1946, Göttingen Akad. der Wissenschaften, British Acad., American Acad. of Arts and Sciences; Hon. doctorates in Theology (St. Andrews, Göttingen, Oslo, Vienna and Uppsala). *Publications:* Ambrosius v. Mailand als Kirchenpolitiker 1929, Die Passionssarkophage 1930, Die Idee des Martyriums in der alten Kirche 1936, 2nd ed. 1964, Luther: Die Hauptschriften, Karl Müller: Kirchengeschichte I 1941, Kirchliches Amt und Geistliche Vollmacht in den ersten drei Jahrhunderten 1953, 1963 (English 1969), Die griechischen Kirchenväter 1955, Lateinische Kirchenväter 1960, Tradition und Leben 1960 (English 1968), Die Jungfrauengeburt in der alten Kirche 1962 (English 1964), Aus der Frühzeit des Christentums 1963, Die Entstehung der Christlichen Bibel 1968 (English 1972), Theologenspiess und-Spass 1973, 1974. *Address:* Jaspers-Strasse 2, 69 Heidelberg, Baden-Württemberg, Federal Republic of Germany.

CAMU, Pierre, PH.D.; Canadian public official; b. 19 March 1923, Montreal; m. Marie-Marthe Trudeau; one s. two d.; ed. Univ. of Montreal and Johns Hopkins Univ. Baltimore. Prof. Econ. Geography and Dir. Research Center, Faculty of Commerce, Laval Univ. 1956-60; Consultant to shipping orgs. in Eastern Canada and U.S.A. 1956-60; Vice-Pres. St. Lawrence Seaway Authority 1960-65, Pres. 1965-73; Administrator Canadian Marine Transportation Admin. 1970-; Pres. Royal Canadian Geog. Soc. 1967-. *Address:* Ministry of Transport, Hunter Building, Ottawa, K1A 0N7, Ont., Canada. *Telephone:* 992-0531.

CANDAU, Marcolino Gomes, M.D., M.P.H.; Brazilian physician; b. 30 May 1911, Rio de Janeiro; s. of Julio Candau and Augusta Gomes; m. 1st Ena de Carvalho 1936, two s.; m. 2nd Sita Reelfs 1973; ed. Univ. do Brasil and Johns Hopkins Univ., U.S.A.; held various positions in Health Service of State of Rio de Janeiro, Nat. Health Dept. and Ministry of Educ. and Public Health 1934-50; Asst. Prof. of Hygiene, School of Medicine, Rio de Janeiro 1938-(leave of absence 1950-); Asst. Prof. of Epidemiology, Nat. Health Dept. 1948-50; Dir. Div. of Org. of Public Health Services, WHO 1950-51, Asst. Dir.-Gen. Dept. of Advisory Services 1951-52; Asst. Dir. Pan-American Sanitary Bureau and Deputy Regional Dir. for the Americas, WHO 1952-53; Dir.-Gen. WHO 1953-73; Dir.-Gen. Emer. WHO 1973-; mem. Brazilian Soc. of Hygiene, Rio de Janeiro State Soc. of Medicine and Surgery, Royal Soc. of Tropical Medicine and Hygiene, London; Life mem. of Johns Hopkins Soc. of Scholars 1974; Hon. Fellow (Foreign) Argentine Medical Assen., Nat. Acad. of Medicine, Peru, Royal Acad. of Medicine in Ireland, American Public Health Assen., Royal Soc. for the Promotion of Health (U.K.), Peruvian Public Health Assen., Royal Soc. of Medicine London, American Coll. of Dentists; Foreign mem. U.S.S.R. Acad. of Medical Sciences and Nat. Acad. of Medicine (France) 1976; hon. mem. Nat. Acad. of Medicine, Brazil, American Venereal Disease Assen., Canadian Public Health Assen., Inter-American Assen. of Sanitary Eng., American Hospital Assen., Geneva Medical Soc. and other societies; Fellow Royal Coll. of Physicians, London; numerous hon. degrees and awards, including Mary Kingsley Medal of Liverpool School of Tropical Medicine 1966, Royal Soc. of Health Gold Medal (London) 1966, Léon Bernard medal and Prize, World Health Ass. 1974. *Leisure interests:* history, gardening. *Address:* Le Mas, Route du Jura, 1296 Coppet, Switzerland. *Telephone:* 022-76-16-49.

CANDELA (OUTERIÑO), Félix; Mexican builder, engineer and architect; b. 27 Jan. 1910, Madrid, Spain; s. of Félix Candela Magro and Julia Outeriño Echeverría; m. 1st Eladia Martin 1940 (died 1963), 2nd Dorothy Davies 1967; ed. Inst. de Cardenal Cisneros, Madrid, and Escuela Superior de Arquitectura, Madrid; service in Spanish Civil War on Republican side 1936-39; interned in France 1939; emigrated to Mexico 1939; supervision of architecture of La Colonia Santa Clara (Spanish Colony), Chihuahua 1939-40; draftsman Mexico City 1940; contractor Acapulco 1941; asst. architect, Mexico City 1942; partnership with his brother Antonio 1945-; first structure in thin-shell concrete 1949; established Cubiertas Alá, S.A. with his brother 1951; buildings include Cosmic Ray Pavilion, Ciudad Universitaria, Mexico 1950, Mexico City Stock Exchange, Church of San Antonio de las Huertas, Church of La Virgen Milagrosa, Lederle Laboratories, and warehouses, Sports Palace for 1968 Olympic Games, Mexico City; major exhbn. of his work, Univ. of South Calif. 1957; Prof., Escuela Nacional de Arquitectura, Mexico 1953-; Jefferson Memorial Prof., Univ. of Virginia 1966; Charles E. Norton Prof. of Poetry Harvard Univ. 1961-62; Andrew White Prof.-at-Large, Cornell Univ. 1971-; Prof. Dept. of Architecture, Univ. of Ill. at Chicago 1971-; William Hoffman Wood Chair. of Architecture, Univ. of Leeds, England 1974-75; Hon. mem. Sociedad de Arquitectos Colombianos, Sociedad Venezolana de

Arquitectos and other societies; Hon. Fellow American Inst. of Architects 1963, Hon. Corresp. mem. R.I.B.A. 1963; Hon. D.F.A. (Univ. of New Mexico) 1964; Gold Medal Inst. of Structural Engineers 1961, Auguste Perret Prize of the Int. Union of Architects 1961, Gold Medal, Soc. of Mexican Architects 1963, and other awards. *Address:* 1514 W. Jackson Boulevard, Chicago, Ill. 60607, U.S.A.; and IDEA Center, 144 Third of September Street, Athens, Greece. *Telephone:* (312) 829-6029 (U.S.A.); 883-4811 (Greece).

CANDILIS, Georges; French architect; b. 1913, Russia; ed. Athens Polytechnical School; architectural practice, Athens until 1940; fmr. Architect Greek Air Force, Asst. Prof. Athens Polytechnical School, Prof. Greek Nat. School of Building Technicians; Reserve Lieut. Greek Army 1940-45 (Cross of St. George); went to France 1945; Asst. to Le Corbusier, Paris and Architect of Le Corbusier's Housing Unit, Marseilles 1945-51; Dir. Atbat-Afrique Co., Casablanca 1951-54; Architectural practice, Paris 1954-, specializing in tropical architecture; Prof. École Nat. Supérieure des Beaux-Arts 1963-; Pres. group of architects for the devt. of Languedoc-Roussillon seashore; Chief Architect Barcarès Leucate Tourist Station, Languedoc-Roussillon; Pres. Syndicat des Architectes de la Seine; mem. French Order of Architects and other professional orgs.; Hon. Fellow AIA; Chevalier Légion d'honneur; many prizes. *Major works include:* new city of Bagnols sur Cèze; new city of Toulouse-Mirail; Free Univ. of Berlin; urban planning of Fort-Lamy (now N'Djamena) Chad, and numerous housing units, shopping centres, schools, hotels, etc. in France and abroad, including Algeria, Morocco, Iran, Tahiti and New Caledonia. *Address:* 18 rue Dauphine, 75006 Paris, France. *Telephone:* 329.61.70.

CANFIELD, Cass, A.B.; American book publisher and editor; b. 26 April 1897, New York, N.Y.; s. of Augustus Cass Canfield; m. Jane White May 1938; two s.; ed. Groton School, Mass., Harvard Univ., Oxford Univ., Sorbonne, Paris; senior Editor for Harper and Row. *Publications:* Up and Down and Around 1971, The Incredible Pierpoint Morgan 1974, Sam Adam's Revolution 1976, The Iron Will of Jefferson Davis 1978. *Leisure interests:* art collecting, travel. *Address:* Harper and Row, 10 East 53rd Street, New York, N.Y. 10022 (Office); 825 Fifth Avenue, New York, N.Y. 10021, U.S.A. (Home).

CANHAM, Erwin Dain, A.B., M.A., D.LITT., L.H.D., LLD.; American newspaper editor; b. 13 Feb. 1904, Auburn, Maine; s. of Vincent Walter Canham and Elizabeth May Gowell; m. 1st Thelma Whitman Hart 1930 (died 1967), 2nd Patience Mary Daltry 1968; two d.; ed. Bates Coll., and Oxford Univ.; with The Christian Science Monitor 1925-, covered League of Nations Ass. 1926-28, chief corresp. at London Naval Conf. 1930, corresp. Geneva 1930-32, head of Washington Bureau 1932-39, Gen. News Editor 1939-41, Man. Editor 1941-44, Editor 1945-64, Editor-in-Chief 1964-74, Editor Emer. 1974-; Radio commentator 1938-39, 1945-; Plebiscite Commr., Northern Mariana Islands 1975, Resident Commr. 1976-; U.S. alternate Del. UN Gen. Assembly 1949; mem. American Soc. of Newspaper Editors, Pres. 1948-49; mem. U.S. Advisory Comm. on Information 1948-51; mem. Corpn., Simmons Coll.; Dir. Nat. Manpower Council; Trustee, Bates and Wellesley Colls.; Trustee of Twentieth Century Fund; mem. U.S. Chamber of Commerce, Pres. 1959-60, Chair. of Board 1960-61, Chair. of Exec. Comm. 1961-62; Chair. Foreign Policy Cttee.; Chair. Dirs. Fed. Reserve Bank of Boston 1962-67; Dir. Keystone Custodian Funds Inc. 1970–; Dir. Nat. Bureau of Econ. Research, Resources for the Future Inc.; Trustee, Museum of Fine Arts, Boston, Boston Public Library (Pres. 1968-); Fellow, American Acad. of Arts and Sciences; Officer Southern Cross of Brazil; Commdr. Order of Orange-Nassau; Order of George I (Greece); Officier, Légion d'honneur; Grosses Bundesverdienstkreuz (German Fed. Repub.); Hon. C.B.E. *Publications:* Awakening, the World at Mid-Century 1951, New Frontiers for Freedom 1954, Commitment to Freedom (co-author), The Christian Science Way of Life 1962; Man's Great Future (ed.) 1959. *Address:* 1 Norway Street, Boston, Mass. (Office); 242 Beacon Street, Boston, Mass. 02116, U.S.A. (Home).

CANNON, Howard Walter, LL.B.; American lawyer and politician; b. 1912; ed. Arizona State Teachers' Coll. and Arizona Univ.–; admitted to Arizona Bar 1937, to Utah Bar 1938, to Nevada Bar 1946; fmr. Reference Attorney, Utah State Senate and County Attorney, Washington County, Utah; City Attorney, Las Vegas 1949-59; Senator from Nevada 1959-; service with Air Force in Second World War, rising to rank of Maj. Gen. U.S.A.F. Reserve; D.F.C., Air Medal with two Oak Leaf Clusters, American Defense Citation, Presidential Unit Citation, Croix de guerre with silver star; Democrat. *Address:* Senate Office Building, Washington, D.C. 20510, U.S.A.

CANONGE, Henri Albert; French official of co-operative movement; b. 13 May 1914, Barre-des-Cévennes; s. of Albert Canonge and Alix Lamarche; m. Germaine Puech 1939; two s.; ed. Lycée du Parc, Lyons, Nat. Agricultural Inst., Paris; asst. Insp. Agricultural Credit Bank 1937-40; Dir. Dairy Industry Assn. of Aveyron, Roquefort Interregional Cttee. 1940, Gen. Confed. of Agriculture 1945-63, Nat. Fed. of Farmers' Unions 1945-47; Dir.-Gen. Nat. Agricultural Confed. for Mutual Assistance, Co-operation and Credit 1952-74; mem. Econ. and Social Cttee., European Communities 1958-, Vice-Pres. 1972-74, Pres. 1974-76; mem. French Council of State 1971-74; mem. Econ. and Social Council, France 1945-52; Leader writer Libération Paysanne 1945-52; mem. Nat. Cttee. on Prices 1945-47, Agricultural Audit Comm. 1960-73; Mayor Mont Saint Père 1977; mem. Council, Ordre du Mérite agricole; Commdr. du Mérite agricole; Commdr. des Palmes académiques. *Leisure interest:* fly fishing. *Address:* Confédération nationale de la mutualité, de la coopération et du crédit agricoles, Maison de l'agriculture, 129 boulevard St.-Germain, 75006 Paris, France; and Economic and Social Committee of the European Communities, 2 rue Ravenstein, 1000 Brussels, Belgium (Offices); 4 rue St. Emilion, Mont Saint Père, 02400 Châteaux Thierry, France (Home). *Telephone:* 256-68-00 (Paris); 712-39-20 (Brussels); 23-83-1272 (Home).

CANTERBURY, Archbishop of (*see* Coggan, most Rev. Frederick Donald).

CANTINI, José Luis; Argentine professor of law and politician; b. 6 March 1924, Rosario; s. of José Juan Cantini and Valentina María Josefa de Agostini; m. Gladys L. Serra 1950; three s. five d.; ed. Colegio San José (Rosario) and Univ. Nacional del Litoral; vice-Rector, Univ. Tecnológica Nacional 1963-66; Dir. Colegio de Abogados de Rosario 1964-66; Legal Assessor, Univ. Tecnológica Nacional 1966-67; Rector, Univ. Nacional del Litoral 1967-68, Univ. Nacional de Rosario 1968-70; Vice-Pres. Council of Rectors of the National Univs. 1968-69; Minister of Educ. and Culture 1970-71. *Address:* Avenida Pellegrini 438, Rosario, Argentina.

CANTO, Jorge del; Chilean economist; b. 1916; ed. Univ. de Chile and Univ. of Calif. (at Berkeley); officer, Chilean Foreign Office 1937-38; Adviser, Banco Central de Chile 1942-46; fmr. Prof. School of Econs. Univ. de Chile; Int. Monetary Fund 1946-; Dir. Western Hemisphere Dept. 1957-77. *Address:* 5412 Christy Drive, Washington, D.C. 20016, U.S.A.

CAPANNA, Alberto; Italian businessman; b. 8 July 1910; ed. Univ. Commerciale Luigi Bocconi, Milan; free-lance 1934-36; staff of Ministry for Africa 1936; Dir. Commissariat-Gen. for Food and Econ. Co-ordination in Libya 1940-42, for Food in Sicily 1942-43; Technical Sec. Ministry for Industry and Commerce 1943-49; joined Istituto per la Ricostruzione Industriale (I.R.I.) 1950, successively First Dir. Finsider, Central Dir., Exec. Vice-Pres., Chair. Finsider June 1975-; Dir. of numerous companies including Italsider, Dalmine, Sidercomit, Cementur, A.T.B.; founder mem. and Chair. Consultative Cttee. ECSC; Cavaliere del Lavoro ■ Cavaliere di Gran Croce al merito della Repubblica Italiana. *Publications include:* Gli scambi dell'Italia con l'estero dalla fondazione del Regno ad oggi 1940, and books on economic subjects. *Address:* Via Nomentana 373, Rome, Italy.

CAPELLE, Jean; French university professor and politician; b. 16 March 1909, Cales, Dordogne; s. of Henri Capelle and Berthe Vaysse; m. Marie de Chaignon 1933; one s.; ed. École Nat. Supérieure des Mines de Paris and Ecole Normale Supérieure, Université de Paris; prof. (Faculty of Science) at Nancy Univ. 1943-46; Dir. Ecole Nat. Supérieure d'Electricité et de Mécanique 1944-46; Dir.-Gen. of Educ. in French West Africa 1947-49; Rector Nancy Univ. 1949-54; Dir.-Gen. of Educ. in French West Africa and Rector, Dakar Univ. 1954-57; Dir.-Gen. Inst. des Sciences Appliquées, Lyons 1957-61, Pres. 1973-; Dir.-Gen. Ministry of Educ. 1961-64; Mayor of Saint-Avit Sénieur 1965-; Deputy for the Dordogne 1968-73; French Rep. to Council of Europe 1968-73; Dir. Ecole Nat. Supérieure d'Electricité et de Mécanique de Nancy 1973-. *Publications:* Génération des engrenages par la méthode des roulettes 1938; Théorie des engrenages hypoïdes 1948, Cours de résistance des matériaux 1949, Editor Bulletin de la Société d'Etudes de l'Industrie de l'Engrenage 1944, Encyclopédie française, Vol. 13 1961, Tomorrow's Education 1967, Pour ou contre le baccalauréat 1968, Education et politique 1975. *Address:* 24440 St. Avit Sénieur, France (Home). *Telephone:* St. Avit Sénieur 61-31-99.

CAPLIN, Mortimer M., B.S., LL.B., J.S.D., J.D.; American lawyer, educator and government official; b. 11 July 1916, New York; s. of Daniel Caplin and Lillian Epstein; m. Ruth Sacks 1942; three s. two d.; ed. Univ. of Virginia and New York Univ. Law School; law Clerk to U.S. Circuit Judge 1940-41; legal practice with Paul, Weiss, Rifkind, Wharton & Garrison, New York 1941-50; U.S. Naval

Reserve, Beachmaster in Normandy landings 1942-45; Prof. of Law, Univ. of Virginia 1950-61, Lecturer and Visiting Prof. 1964-; Counsel to Perkins, Battle & Minor 1952-61; U.S. Commr. of Internal Revenue 1961-64; Partner, Caplin & Drysdale, Washington, D.C. 1964-; Chair. Finance Cttee. Prentice-Hall Inc.; Chair. Nat. Civil Service League, American Council on Int. Sports, Nat. Citizens' Advisory; Dir. Norton Simon Inc., Webb Resources Inc.; mem. American Bar Assen., D.C., Va. and N.Y. State Bar Assens., Nat. Tax Assen., Fed. Bar Assen., American Law Inst.; Editor-in-Chief Virginia Law Review 1939-40; mem. Board of Trustees, George Washington Univ. and Coll. of the Virgin Islands; Hon. LL.D. (St. Michael Coll.) 1964; Raven Award, Alexander Hamilton Award, and other awards. *Publications:* Numerous articles on tax and corporate matters. *Leisure interests:* swimming, horseback riding, gardening. *Address:* Caplin & Drysdale, 1101 17th Street, N.W., Washington, D.C. 20036 (Office); 4536 29th Street, N.W., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 202-293-3900 (Office); 202-244-3040 (Home).

CAPOTE, Truman: American author; b. 30 Sept. 1924, New Orleans; ed. Greenwich High School, New York; writer from early years; first published story Miriam 1944; mem. Nat. Inst. Arts and Letters; O. Henry Memorial Award 1946, 1948, 1951; creative writing award Nat. Inst. Arts and Letters 1959. *Publications:* Other Voices, Other Rooms (novel) 1948, Tree of Night (short stories) 1949, Local Colour (travel essays) 1950, The Grass Harp (novel, later dramatized by the author) 1951, The House of Flowers (musical) 1954, The Muses are Heard (essay) 1956, Breakfast at Tiffany's (short stories) 1958, Selected Writings 1963, In Cold Blood 1964 (film 1968), A Christmas Memory 1966, The Thanksgiving Visitor 1969, Trilogy: An Experiment in Multimedia 1971, The Dogs Bark 1974, Then It All Came Down: Criminal Justice Today Discussed by Police Criminals and Correction Officers with Comments by Truman Capote 1976; short stories and articles in many nat. magazines. *Address:* c/o Random House Inc., 457 Madison Avenue, New York, N.Y. 10022; Wainscott, New York 11975, U.S.A. (Home).

CAPP, Al(fred) Gerald; American author and artist; b. 28 Sept. 1909, New Haven; s. of Otto and Matilda (Davidson) Capp; m. Catherine Wingate Cameron; one s. two d.; ed. Philadelphia Acad. of Fine Arts, Boston Museum of Fine Arts; created comic strip "Li'l Abner" 1934-77, appearing in over 1,000 newspapers throughout the world. *Publications:* Life and Times of the Shmoo, World of Li'l Abner, and articles in Atlantic Monthly, Life, Picture Post, Reader's Digest, Pageant. *Address:* Capp Enterprises, 122 Beacon Street, Boston, Mass., U.S.A.

CAPPELLO, Carmelo; Italian sculptor; b. 21 May 1912; m. Selene Varale Cappello; one s. one d.; ed. Istituto Superiore d'Arte di Monza; sculptor 1937-; regular exhibitor at Venice Biennali, Milan Triennali and Rome Quadriennali since 1947; represented in major collections and int. exhbns. throughout the world; mem. Nat. Cttee. of UNESCO Div. of Plastic Arts; mem. Accad. Nazionale di San Luca; numerous awards. *Major works:* Freddoloso 1938, Uomo nello spazio 1955, Tempesta 1956, Cristo e i due ladroni 1955, Volo Stratosferico 1958, Il Folle 1948, Il Filosofo 1949, Tuffatori 1958, Gli Acrobati 1955, Eclisse 1959, Fughe ritmiche 1961, Involuzione del cerchio 1962, Fontana per curve d'acqua 1958, Ala 1960, Ritmi Chiusi 1963, Superficie-Spazio: Itinerario Circolare 1964, Traiet toria Dal Piano Dello Spazio: 1965, Occhio di Cielo 1966. *Address:* Via Melone 2, Milan, Italy. *Telephone:* 898457 (Office); 8394658 (Home).

CAPPUYNS, Hendrik Frans Ferdinand, D. EN D.; Belgian business executive; b. 24 April 1913; s. of Hendrik and Maria Van Dingenen; m. Judith Smeets 1942; one s. one d.; ed. Univ. of Louvain; lawyer, Brussels bar 1936-37; Sec.-Gen. S.N.C.B., Brussels 1937-45; Sec.-Gen. Gevaert Photo-Producten N.V. 1945-52, Gen. Man. 1952-64, Dir. and Man. Dir. 1957-, Chair. 1975-; Pres. Agfa-Gevaert N.V. (fmrly. Gevaert-Agfa N.V.), Mortsel 1964-71, Vice-Pres. Agfa-Gevaert AG, Leverkusen 1964-71; Chair. Agfa-Gevaert Group 1971-75, Chair. Supervisory Board 1975-78; Chair. Uitgeversbedrijf Tijd 1969-; Dir. Soc. Réunies d'Energie du Bassin de l'Escaut, EBES 1960-; Dir. Royale Belge 1964-; Dir. Union Chimique Belge, UCB 1966-; Dir. Vlaamse Uitgevers Maatschappij, VUM 1976-; Censor Nat. Bank Belgium, Brussels 1962-67, Regent 1967-; Dir. Foundation Industry-Univ. 1962-; Dir. Nat. Investment Co. 1962-66; Dir. Nat. Co. for Credit to Industry 1964-66; Dir. Research Centre for Nuclear Energy 1975-; Vice-Pres. Fed. of Belgian Industries; Commdr. Ordre de la Couronne, Chevalier Ordre Léopold, Commdr. Ordre Léopold II, Officier Ordre Orange-Nassau. *Address:* Gevaert Photo Producten N.V., Septestraat 27, B-2510 Mortiel (Office); Wilgendael, Horstebaan 109, B-2120 Schoten, Belgium (Home).

CAPRA, Frank R.; American film director and producer; b. 18 May 1897, Palermo, Italy; m. Lucille Warner 1933; two s. one d.; ed. Calif. Inst. of Tech.; [redacted] to U.S.A. 1903; film dir. 1921-; served U.S. Army both World Wars; fmr. Pres. Acad. of Motion Picture Arts and Sciences, Screen Directors' Guild; Dir. Calif. Inst. Tech.; three Acad. Awards for best direction of year; twice produced films which won Acad. Award [redacted] best picture of year. *Films produced, directed include:* Tramp, Tramp, Tramp 1926, The Strong Man 1926, Long Pants 1927, For the Love of Mike 1927, That Certain Thing 1928, Submarine 1928, Power of the Press 1928, The Donovan Affair 1929, Ladies of Leisure 1930, Platinum Blonde 1931, Forbidden 1932, American Madness 1932, Lady for a Day 1933, It Happened One Night (Acad. Awards for best picture and best dir.) 1934, Broadway Bill 1934, Mr. Deeds Goes to Town (Acad. Award for best dir.) 1936, Lost Horizon 1937, You Can't Take it With You (Acad. Awards for best picture and best dir.) 1938, Mr. Smith Goes to Washington 1939, Meet John Doe 1941, Why we Fight (propaganda series) 1941-45, Arsenic and Old Lace 1944, It's a Wonderful Life 1946, State of the Union 1948, Double Dynamite 1949, Riding High 1950, Here Comes the Groom 1951, A Hole in the Head 1959, Pocketful of Miracles 1961. *Publication:* The Name Above the Title 1971. *Address:* P.O. Box 98, La Quinta, Calif. 92253; and S.G. Colgems Square, Burbank, Calif. 91505, U.S.A.

CAPRIO, H.E. Cardinal Giuseppe, J.C.D., S.T.L.; Italian ecclesiastic; b. 15 Nov. 1914, Lapio, Avellino; ed. Diocesan and Regional Seminaries, Benevento, Pontifical Gregorian Univ., Rome, Pontifical Ecclesiastical Acad., Rome; ordained Roman Catholic Priest 1938; Attaché, Secretariat of State, Vatican City 1943-47; Sec., Apostolic Nunciature, Nanking, China 1947-51; Auditor, Apostolic Nunciature, Brussels, Belgium 1952-56; Apostolic Visitor to Repub. of Viet-Nam and later Regent of Apostolic Del. in Saigon 1956-59; Apostolic Nuncio to China, serving in Taiwan 1959-67; Titular Archbishop of Apollonia 1961; Apostolic Pro-Nuncio to India 1967-79; Sec. of Admin. of Patrimony of the Holy See 1969-77; Substitute of the Secretariat of State 1977-79; Admin. of the Patrimony of the Holy See 1979-; created Cardinal 1979. *Address:* Office of the Patrimony of the Holy See, Vatican City.

CAPRIOGLIO, Pietro; Italian chemist; b. 28 April 1929; ed. Univ. of Milan; worked in pharmaceutics; worked in technological nuclear research, successively for Centro Informazioni e Studi Esperienze (CISE), AGIP Nucleare and EURATOM; Dir. Soc. Progettazioni Meccaniche Nucleari (IRI Group) 1967-69; Dir. Ispra Establishment, EURATOM; Dir.-Gen. Joint Research Centre 1971-74. *Address:* c/o Joint Research Centre, Commission of the European Communities, 200 rue de la Loi, Brussels, Belgium.

CARADON, Baron (Life Peer), cr. 1964, of St. Cleer in the County of Cornwall; **Hugh Mackintosh Foot,** P.C., G.C.M.G., K.C.V.O., O.B.E. (brother of Lord Foot of Buckland Monachorum and Michael Foot, q.v.); British overseas administrator; b. 8 Oct. 1907, Plymouth; s. of Rt. Hon. Isaac Foot, P.C.; m. Sylvia Tod 1936; three s. one d.; ed. Leighton Park School, Reading and St John's Coll., Cambridge; pres. Cambridge Union 1929; Admin. Officer Palestine Govt. 1929-37; attached to Colonial Office 1938-39; Asst. British Resident, Transjordan 1939-41; British Mil. Admin., Cyrenaica 1943; Colonial Sec. Cyprus 1943-45; Colonial Sec. Jamaica 1945-47; Chief Sec. Nigeria 1947-50; Capt.-Gen. and Gov.-in-Chief of Jamaica 1951-57; Gov. and Commdr.-in-Chief of Cyprus 1957-60; U.K. Perm. Rep. UN Trusteeship Council 1961-62; Consultant to UN Special Fund 1963; Minister of State for Foreign Affairs and Perm. Rep. to UN Oct. 1964-70; Visiting Fellow at Princeton and Harvard Univs.1977-78. *Publication:* A Start in Freedom 1964. *Address:* Trematon Castle, Saltash, Cornwall, England (Home). *Telephone:* Saltash 3778.

CARAFOLI, Elie; Romanian professor of aerodynamics; b. 15 Sept. 1901, Veria-Salonica, Greece; s. of Nicolae and Emilia Ceara Carafoli; m. Monique Cosma; two d.; ed. Polytechinc Inst. of Bucharest and the Sorbonne, Paris; research Engineer, Inst. Aéronautique de Saint-Cyr, Paris 1926-28; Chief Engineer and Dir. Industria Aeronautică Română (IAR), Braşov 1928-33; Prof. of Aerodynamics, Polytechnic Inst. of Bucharest 1928-; Pres. Romanian Mechanical and Chemical Industries, Ploieşti 1939-48; Dir. Inst. of Applied Mechanics of the Romanian Acad., Bucharest 1949-65; Dir. Inst. of Fluid Mechanics of the Romanian Acad. 1965-70; Hon. Dir. Inst. of Fluid Mechanics and Aerospace Construction, Bucharest 1970-; mem. Romanian Acad.; Foreign mem. Braunschweigische Wissenschaftliche Gesellschaft; Corresp. mem. Acad. des Sciences et des Arts de Toulouse; extraordinary mem. H. Oberth-Gesellschaft; Hon. Fellow, Royal Aeronautical Soc.; State Prize, Order of Labour, Order of Scientific Merit, Honoured Scientist of Socialist Repub. of Romania, Carl-Friedrich-Gauss Medal, Médaille Honneur Argent, Soc. Nat. de l'Encouragement au Progrès, and

other awards. *Publications:* Nearly two hundred books, incl. Aérodynamique des Ailes d'Avion 1928, Tragflügeltheorie 1954, Aerodinamika Bolşhih Skorostei (High Speed Aerodynamics) 1960, Wing Theory in Supersonic Flow 1969; papers, monographs and articles. *Leisure interests:* theatre, travel. *Address:* Institute of Fluid Mechanics, str. Const. Mille 15, Bucharest (Office); Str. Vasile Conta 3, Bucharest, Romania (Home). *Telephone:* 145841 (Office); 162634 (Home).

CARAGEA, Boris; Romanian sculptor; b. 11 Jan. 1906, Balcic, Bulgaria; s. of Tudor and Raïna Caragea; divorced; one d.; ed. Bucharest School of Fine Arts; teacher of Sculpture, N. Grigorescu Fine Arts Inst., Bucharest; Chair. Plastic Artists Union 1951-57; Chair. Plastic Arts Council of State Cttee. for Culture and Art 1962-68; mem. Exec. Cttee. of Plastic Artists Union; Corresp. mem. Romanian Acad. 1955-; One-man exhbn. Vienna 1963; official exhbns. in Romania, Venice, Moscow, Belgrade, Prague, Berlin, Helsinki, Leningrad, Paris and Warsaw; represented at Venice Biennale 1964; Merited Master of Arts 1951, People's Artiste 1962, State prizewinner 1951 and 1953. *Major works:* The Meeting, The Mother, Liberation, V. I. Lenin, Fisher, bas-relief on façade of Bucharest Opera, Song, G. Enescu, The Victory. *Address:* Uniunea Artiştilor Plastici, str. N. Iorga 42, Bucharest, Romania (Office). *Telephone:* 50 47 86.

CARAYANNIS, Denis; Greek diplomatist; b. 1918; joined Ministry of Foreign Affairs 1947; Consul, Chicago 1951-52, New York 1952; Sec. Perm. Mission of Greece to UN 1952-58; Ministry of Foreign Affairs 1958-62; Consul-Gen. Paris 1962-64; Dir. Dept. of Political Affairs of Middle East and Africa 1964-70; Minister Plenipotentiary 1968; Amb. to Albania 1971-73; Perm. Rep. to UN July 1974-75; del. to several sessions of UN Gen. Assembly. *Address:* c/o Ministry of Foreign Affairs, Athens, Greece.

CARAZO ODIO, Rodrigo; Costa Rican politician; b. 27 Dec. 1926, Cartago; active mem. of Partido de Liberación Nacional (PLN) until resignation 1969, occupying posts as Dir. Nat. Inst. of Housing and Urbanization 1954-59, Adviser on Housing and Finance, Banco Obrero de Venezuela 1959-63, Dir. Banco Central de Costa Rica 1963-65; Deputy to Legislative Ass. of Costa Rica 1966, then Pres., Dir. Recope (state enterprise controlling distribution of petroleum products); founded Renovación Democrática, taking fourth place in presidential elections 1974; Leader of coalition party Unidad (Renovación Democrática, Republicano Calderonista, Unión Popular, Demócrata Cristiano) 1976-; Pres. of Costa Rica May 1978-; Prof. of Econs., Admin., Econ. Development and History, visiting lecturer to U.S.A. and South America; agricultural, commercial and industrial activities. *Address:* Oficina del Presidente, San José, Costa Rica.

CARBERRY, H.E. Cardinal John J.; American ecclesiastic; b. 31 July 1904, Brooklyn; ordained 1929; Titular Bishop of Elis 1956; Bishop of Lafayette, Indiana 1957-65, of Columbus, Ohio 1965-68; Archbishop of St. Louis 1968-; cr. Cardinal 1969. *Address:* 4445 Lindell Boulevard, Saint Louis, Missouri 63108, U.S.A.

CARDIN, Hon. Lucien, P.C.; Canadian lawyer and politician; b. 1 March 1919; ed. Loyola Coll. and Montreal Univ.; naval service 1941-45; Barrister, Montreal; mem. House of Commons 1952-79; Assoc. Minister of Defence with seat in Cabinet 1963-65; Minister of Public Works 1965, of Justice July 1965-67; mem. Immigration Appeal Board 1970-72; Asst. Chair. Income Tax Revision Board 1972-; Liberal. *Address:* 900 Abbott, Ville Saint-Laurent, Quebec, Canada (Home). *Telephone:* 323-2531.

CARDIN, Pierre; French couturier; b. 7 July 1922, Italy; fmrly. worked with Christian Dior; founded own fashion house 1949; founded Espace Pierre Cardin (theatre group); Chevalier Légion d'honneur 1974. *Address:* 118 rue du Faubourg-Saint-Honoré, 75008 Paris, France.

CARDINALE, Claudia; Italian film actress; b. 15 April 1938, Tunis; d. of Franco and Yolanda Cardinale; m. Franco Cristaldi 1966; one s.; ed. Lycée Carnot and Collège Paul Cambon, Tunis; made first film 1958; awards include Nastro d'Argento, David di Donatello, Grolla d'Oro; has made 38 films, including 8½, The Pink Panther, The Leopard, The Professionals, Once Upon a Time in the West, Fury, The Magnificent Showman, La Scoumoune. *Address:* Vides Piazza, Pitagora 9, Rome, Italy.

CARDINALE, Most Rev. Hyginus Eugene; Vatican ecclesiastic and diplomatist; b. 14 Oct. 1946; ed. St. Agnes Acad. (U.S.A.), Pontifical Roman Major Seminary, Pontifical Lateran Univ., Pontifical Gregorian Univ. and Pontifical Ecclesiastical Acad., Rome; attaché of Nunciature 1945, Sec. of Nunciature 1946; Papal Representations Egypt, Palestine, Arabia, Cyprus 1946-52; Domestic Prelate 1958; Counsellor of Nunciature 1958; Chief of Protocol, Papal Secretariat 1961; Under-Sec. of Tech. Org. Comm., Second Vatican Ecumenical Council 1962; Apostolic Del. to Great Britain, Malta, Gibraltar and Bermuda and Titular Archbishop of Nepte 1963-69; Apostolic Nuncio to Belgium and Luxembourg April 1969–; and to the European Econ. Communities 1970-; Holy See Special Envoy and Perm. Observer to Council of Europe (Strasbourg) 1970-74; numerous decorations. *Publications:* La représentation pontificale 1948, Church and State in the U.S.A. 1958, Pontifical Diplomacy 1959, Le Chiese Dissidenti d'Oriente dinanzi al Concilio 1961, La Fedeltà del Patriarcato Greco-Melchita d'Antiochia alla Sede Apostolica 1961, La Santa Sede e la Politica 1962, Le Saint-Siège et la diplomatie 1962, Signs of the Times and Ecumenical Aspirations, 1967, The Unity of the Church 1968, The Contribution of the Holy See to World Peace 1970, The Holy See and the International Order 1975. *Address:* Apostolic Nunciature, ave. des Franciscains 5–9, 1150 Brussels, Belgium.

CAREY, Hugh L., J.D.; American state governor; b. 11 April 1919, Park Slope, Brooklyn; s. of Margaret Collins and Dennis J. Carey; m. Helen Owen Twohy 1945 (deceased); nine s. four d. one adopted d.; ed. St. Augustine's Acad., High School, Brooklyn, St. John's Univ.; served with U.S. Army in Europe 1939-46, rank of Lt.-Col.; joined family petrochemical business 1947; called to bar 1951; mem. U.S. Houses of Reps. rep. 12th District of Brooklyn 1960-74, apptd. Deputy Whip, mem. House Educ. and Labour Cttee., House Cttee. on Interior and Insular Affairs, Senate-House Joint Econ. Cttee., Sub-cttee. on National Parks; Chair. Sub-cttee. on Territorial and Insular Affairs; mem. House Ways and Means Cttee. 1970; Gov., New York State Nov. 1974-, re-elected Nov. 1978; Bronze Star, Croix de guerre with Silver Star, Combat Infantryman's Badge; Democrat. *Address:* Governor's Residence, State Capitol, Albany, N.Y. 12224, U.S.A.

CARGILL, Ian Peter M.; British international bank official; b. 29 Sept. 1915; s. of William Macgillivray and Ethel Mary Chestney Cargill; m. 1st Margaret Freeling 1934 (dissolved 1945); one s.; m. 2nd Inge Haure-Peterson 1951 (died 1965); ed. Oxford Univ.; Indian Civil Service 1938-47; British Treasury, London and Washington Office 1948-52; World Bank, Desk Officer, Ethiopia, Sudan and Thailand 1952-57; Asst. Dir., Dept. of Operations, Far East, World Bank 1957-61, Dir. 1961-66, Dir. Asia Dept. 1966-68, Dir. S. Asia Dept. 1968-72, Regional Vice-Pres. Asia 1972-74, Senior Vice-Pres. for Finance July 1974-. *Address:* International Bank for Reconstruction and Development (World Bank), Washington, D.C. 20433, U.S.A.

CARÍAS, Mario; Honduras diplomatist; b. 1 July 1941; m.; two c.; ed. San Miguel Salesian Inst., Tegucigalpa, Univs. of Barcelona and Paris, Acad. of Int. Law, The Hague; First Secretary in Embassy, Paris 1966-68, acting Chargé d'affaires 1968-71; Amb. to European Communities 1973-77; Perm. Rep. to UN, Geneva 1972-77, New York 1977-; rep. to UNCTAD 1970 and 1976; Rep. to Gen. Ass. First Cttee. (Political and Security) and Second Cttee. (Econ. and Financial) 1971 and 1973; head of del. and Vice-Chair. of Drafting Cttee., Review Conf. of Parties to Treaty on Non-Proliferation of Nuclear Weapons 1975; Chair. of del. to 2nd, 3rd and 6th sessions, Third UN Conf. on the Law of the Sea 1974, 1975 and 1977; Vice-Pres., Trade and Devt. Bd. 1976; head of del. to UN Sugar Conf. April–May 1977; Chair. of "Group of 77" developing countries, Geneva, July-Sept. 1972, and Latin American Group May-June 1973. *Address:* Permanent Mission of Honduras to the United Nations, 415 Lexington Avenue, Room 1310, New York, N.Y. 10017, U.S.A.

CARL XVI GUSTAF; King of Sweden; b. 30 April 1946; s. of Prince Gustaf Adolf and Sibylla, Princess of Saxe-Coburg and Gotha; m. Silvia Sommerlath 1976; one d., Victoria Ingrid Alice Désirée, b. 14 July 1977; ed. in Sigtuna and Univ. of Uppsala; created Duke of Jämtland; became Crown Prince 1950; succeeded to the throne on death of his grandfather, King Gustaf VI Adolf 15 Sept. 1973. *Address:* Royal Palace, Stockholm, Sweden.

CARLI, Guido, D.IUR.; Italian economist and banker; b. 1914; ed. Padua Univ. Dir. Ufficio Italiano dei Cambi 1945; mem. Consulta Nazionale 1945; mem. Man. Board Int. Monetary Fund 1947; Gen. Adviser Ufficio Italiano dei Cambi 1948; mem. European Payments Union Man. Board 1950-58, Pres. 1951-52; Pres. Mediocredito 1952, Consorzio Credito Opere Pubbliche 1959, Istituto Credito Imprese Pubblica Utilità 1959; Vice-Pres. Istituto Mobiliare Italiano 1959, Ufficio Italiano dei Cambi 1959; Gen. Man. Banca d'Italia 1959-61, Gov. 1961; mem. Board Dirs. Bank of Int. Settlements 1960-70, Board European Monetary Agreement 1959-; mem. EEC Monetary Cttee. 1959-; Gov. for Italy Int. Bank for Reconstruction and Devt. 1962-75; Minister of Foreign Trade 1957-58; Einaudi Prize 1964.

Publications: Verso il multilateralismo degli scambi e la convertibilità delle monete, Evoluzione della legislazione italiana sul controllo degli scambi e dei cambi, Commercio Estero-Maggio 1957-Giugno 1958. *Address:* Piazza Borghese 3, Rome. Italy.

CARLILE, Thomas, C.B.E., B.SC., F.C.G.I., C.ENG., F.I.MECH.E.; British engineer and company executive; b. 9 Feb. 1924, London; s. of James Love Carlile and Isobel Scott (Thompson) Carlile; m. Jessie Davidson Clarkson 1956; three d.; ed. Minchenden County School, City and Guilds Coll., London; joined Babcock and Wilcox Ltd. 1944, New York Rep. 1950-53, Asst. Gen. Works Man. 1953-60, Gen. Works Man. 1960-66, Dir. 1963-, Man. Dir. 1968-, Deputy Chair. 1978-. *Address:* Babcock and Wilcox Ltd., Cleveland House, St. James's Square, London, SW1Y 4LN (Office); 8 Aldenham Grove, Radlett, Herts., WD7 7BW, England (Home). *Telephone:* 01-930 9766 (Office); Radlett 6881 (Home).

CARLISLE, Rt. Hon. Mark, P.C., LL.B., Q.C., M.P.; British lawyer and politician; b. 7 July 1929; s. of Philip and Mary Carlisle; m. Sandra Des Voeux 1959, one d.; ed. Radley Coll., Manchester Univ.; called to the Bar, Gray's Inn 1953; M.P. for Runcorn 1964-; mem. Home Office Advisory Council on the Penal System 1966-70; Joint Hon. Sec. Conservative Cttee. on Home Affairs 1965-69; Opposition Spokesman on Home Affairs 1969-70; Parl. Under-Sec. of State, Home Office 1970-72; Minister of State 1972-74; Sec. of State for Educ. and Science May 1979-; Recorder Crown Court 1976-; mem. Advisory Council, BBC 1975; Conservative. *Address:* House of Commons, Westminster, London, S.W.1, England.

CARLSON, Edward Elmer; American airline executive, b. 4 June 1911, Tacoma, Wash.; s. of Elmer E. and Lula (Powers) Carlson, m. Nell Hinckley Cox; one s. one d.; ed. Univ. of Washington; U.S. Navy 1942-46; Asst. to Pres. Western International Hotels 1946, Vice-Pres. 1947, Exec. Vice-Pres. 1953-61, Pres. 1961-69, Chair. and Chief Exec. Officer 1969-70, Chair. Exec. Cttee. 1971–; mem. Board of Dirs. UAL Inc. Aug. 1970 (following merger of Western Int. Hotels and UAL, Inc.), Pres. and Chief Exec. Officer UAL Inc. and United Airlines 1970-75, Chair. and Chief Exec. Officer Jan. 1975-; Dir. Seattle First Nat. Bank, Dart Industries Inc., Deere and Co, Seafirst Corpn., First Chicago Corpn. (and its subsidiary First Nat. Bank of Chicago), etc.; Order of St. John of Jerusalem. *Leisure interests:* golf, sailing. *Address:* UAL Inc., P.O. Box 66919, Chicago, Ill. 60666 (Office); Boundary Lane, The Highlands, Seattle, Wash. 98177, U.S.A. (Home).

CARLSSON, Ingvar Gösta, M.A.; Swedish politician; b. 9 Nov. 1934, Borås; m. Ingrid Melander 1957; two d.; ed. Lund Univ. and Northwestern Univ. U.S.A.; Sec. in Statsradsberedningen (Prime Minister's Office) 1958-60; Pres. Social Democratic Youth League 1961-67; Member of Parl. 1964-; Under Sec. of State, Statsradsberedningen 1967-69; Minister of Educ. 1969-73, of Housing and Physical Planning 1973-76; mem. Exec. Cttee. Social Dem. Party. *Address:* Riksdaghuset, 10012 Stockholm 46, Sweden.

CARLUCCI, Frank Charles; American diplomatist; b. 18 Oct. 1930, Scranton, Pa.; s. of Frank and Ruth Carlucci; m. Jean Anthony 1954 (separated 1974); one s. one d.; ed. Princeton Univ. and Harvard Graduate School of Business Admin.; with Jantzen Co., Portland, Ore. 1955-56; Foreign Service Officer, Dept. of State 1956; Vice-Consul, Econ. Officer, Johannesburg 1957-59; Second Sec. Political Officer, Kinshasa 1960-62; Officer in charge of Congolese Political Affairs, Consul-Gen., Zanzibar 1962-65; Counsellor for Political Affairs, Rio de Janeiro 1965-69; Asst. Dir. for Operations, Office of Econ. Opportunity 1969-70, Dir. OEO 1971; Assoc. Dir. Office of Management and Budget 1971-72, Deputy Dir. 1972-73; Under-Sec. Dept. of Health, Educ. and Welfare 1973-74; Amb. to Portugal 1974-77; Dep. Dir. CIA 1977-; Hon. D.Hum.Litt.; Superior Service Award and Superior Honour Award, Dept. of State. *Leisure interests:* tennis, swimming, jogging, squash. *Address:* Central Intelligence Agency, Washington, D.C. 20505, U.S.A.

CARLYLE, Joan Hildred; British soprano, b. 6 April 1931; d. of late Edgar J. Carlyle and Margaret M. Carlyle; m. Robert Duray Aiyar; two d.; ed. Howell's School, Denbigh, N. Wales; principal Lyric Soprano, Covent Garden 1955-; *major roles sung in U.K. include:* Oscar, Ballo in Maschera 1957-58; Sophie, Der Rosenkavalier 1958-59; Nedda, Pagliacci (Zeffirelli production) 1959, Mimi, La Bohème 1960, Titania, Midsummer Night's Dream, Britten (Gielgud production) 1960, Pamina, Magic Flute 1962, 1966, Countess, Marriage of Figaro 1963, Zdenka, Arabella (Hartman Production) 1964, Suor Angelica 1965, Desdemona, Othello 1965, Arabella 1967, Marschallin, Der Rosenkavalier 1968, Jenifer, Midsummer Marriage 1969, Donna Anna 1970, Reiza, Oberon 1970, Adrianna Lecouvreur 1970, Russalka, Elizabetta, Don Carlos 1975; major roles sung abroad include Oscar, Nedda, Mimi, Pamina, Zdenka, Micaela, Donna Anna, Arabella, Elizabetta and Desdemona; debut at Salzburg, Metropolitan Opera, New York and Teatro Colón, Buenos Aires 1968; several recordings including Von Karajan's production of Pagliacci ■■ Nedda and Midsummer Marriage ■■ Jenifer. *Leisure interests:* gardening, travel, preservation of the countryside, interior design, cooking. *Address:* 44 Abbey Road, St. John's Wood, London, N.W.8, England.

CARMICHAEL, Harry J., C.M.G.; Canadian industrialist; b. 29 Sept. 1891; s. of late William A. Carmichael and Mary Ann Moran; m. Helen Marie Moran Woods 1942; ed. New Haven High School; joined McKinnon Industries, St. Catherines, Ont. 1912, becoming Pres. and Gen. Man. on acquisition by Gen. Motors Corpn. 1929; Vice-Pres. and Gen. Man. General Motors of Canada Ltd. 1936-41; Joint Dir.-Gen. of Munitions Production, Dept. of Munitions and Supply 1941-42; Co-ordinator of Production and Chair. War Production Board; Canadian Chair. Joint U.S.-Canada W.P.B. 1942-45; Dir. Argus Corpn. Ltd., Foster Wheeler Ltd., Continental Can Co. of Canada Ltd., Hayes-Dana Ltd.; Trustee Ont. Jockey Club. *Address:* 619 Avenue Road, Apartment 1601-2, Toronto M4V 2K6, Ont., Canada.

CARMOY, Guy de, L. EN D., L. ÈS L.; French administrator and professor; b. 20 Feb. 1907, Paris; s. of Pierre de Carmoy and Marguerite Perquer; m. Marie de Gourcuff 1934; one s. three d. (one d. deceased); Insp. of Finances 1930-60; Gen. Information Commissariat 1939; Head of Film Dept., Ministry of Information 1940-41; Budgetary Controller 1941-43; deported to Germany 1943-45; Alternate Exec. Dir. Int. Bank for Reconstruction and Devt. 1946-48; mem. French del. for European Economic Co-operation 1948; Dir. of Admin. and Confs. Org. for European Economic Co-operation 1948-52; Prof. Inst. d'Etudes Politiques 1950-; Prof. Inst. Européen d'Administration des Affaires 1961-; Officier Légion d'honneur. *Publications:* Fortune de l'Europe 1953, Les politiques étrangères de la France (1944–66) 1967, Le dossier européen de l'energie 1971, Energy for Europe, Economic and Political Implications 1977. *Leisure interest:* interior decoration. *Address:* 22 avenue de Suffren, 75015 Paris, France. *Address:* 56 7-12-73.

CARNÉ, Marcel; French film director; b. 18 Aug. 1906; s. of Paul Carné and Marie Racouët; took course for film technicians; work interrupted by military service; on discharge entered insurance business, later returned to film work; asst. operator for Les Nouveaux Messieurs 1928, asst. to Dir., Richard Oswald, for Cagliostro 1929; won competition for film criticism organized by Cinémagazine and joined editorial staff of this publication, directed Nogent, Eldorado du Dimanche 1929, assisted René Clair in this direction of Sous les Toits de Paris 1930; wrote criticisms for various journals; Asst. Dir. for Le Grand Jeu, Pension Mimosa, and La Kermesse Héroique; scored first great success ■■ dir. with Jenny 1936; Officier Légion d'honneur; Commdr. Ordre des Arts et des Lettres; Commdr. Ordre national du Mérite; Prix Int., Venice Biennale 1938, 1953, Grand Prix de Cinéma 1958, Médaille de Vermeil 1972, Grand Prix Oecuménique, Cannes 1977. *Films include:* Drôle de drame 1937, Quai des brumes 1938, Le jour se lève 1939, Les visiteurs du soir 1941, Les enfants du Paradis 1943, Les portes de la nuit 1946, La Marie du port 1949, Juliette ou la clé des songes 1950, Thérèse Raquin 1953, L'air de Paris 1954, Le pays d'où je viens 1956, Les tricheurs 1958, Terrain vague 1960, Du mouron pour les petits oiseaux 1963, Trois chambres à Manhattan 1965, Les jeunes loups 1968, Les assassins de l'ordre 1970, La merveilleuse visite 1974, La Bible 1976. *Publication:* La vie à belles dents (autobiography) 1975. *Address:* 81 boulevard Suchet, Paris 75015, France. *Telephone:* 524-0178.

CARNEGIE, Sir Roderick Howard, Kt., M.A., M.B.A.; Australian mining executive; b. 27 Nov. 1932, Melbourne; s. of D. H. Carnegie; m. Carmen Clarke 1959; three s.; ed. Trinity Coll. Melbourne Univ., New Coll., Oxford, Harvard Business School, Boston, U.S.A.; Assoc. McKinsey and Co., Melbourne and New York 1959-64, Principal Assoc. 1964-68, Dir. 1968-70; Dir. Conzinc Riotinto of Aust. Ltd. 1970, Joint Man. Dir. 1971-72, Man. Dir. and Chief Exec. 1972-74, Chair. and Chief Exec. 1974-; Dir. Rio Tinto-Zinc Corpn. Ltd., Bougainville Copper Ltd., Hamersley Holdings Ltd., Australian Mining and Smelting Co. Ltd., Comalco Ltd., The Myer Emporium Ltd. *Address:* Conzinc Riotinto of Australia Ltd., 95 Collins Street, Melbourne, Vic. 3000, Australia (Office). *Telephone:* 63 0491.

CARNEIRO, Paulo de Berredo, D.SC.; Brazilian biochemist and diplomatist; b. 1901, Rio de Janeiro; s. of Mário Barboza Carneiro and Maria de Berredo; m. Corina de Lima ■ Silva 1927; one s. one d.; ed. Escola Politécnica, Rio de Janeiro, and Université de Paris à la Sorbonne; Prof. Agregé, Escola Politécnica, Rio de Janeiro 1931-; Sec. of State for Agriculture, Industry and Commerce, State of Pernambuco 1935; founded Pernambuco Agronomical Inst. 1935;

research at Inst. Pasteur, Paris 1936-41; del. to numerous General Confs. of UNESCO 1945-; mem. Exec. Board UNESCO 1946-, Chair. 1951-54; Head Brazilian Perm. Del. to UNESCO 1947-58, Amb. to UNESCO 1958-; Pres. Int. Comm. for a History of the Scientific and Cultural Development of Mankind 1951-; Pres. Int. Assen. La Maison d'Auguste Comte 1958-; Vice-Pres. Int. Children's Centre; mem. Brazilian Acad. of Sciences 1938, Acad. des Sciences Morales et Politiques (Inst. de France) 1968, Brazilian Acad. of Letters 1971; Pres. Acad. du monde Latin 1969-; Prix Nativelle, Paris Acad. of Medicine 1951. *Publications:* Vers un nouvel humanisme 1970; numerous articles and essays on Comte and UNESCO. *Leisure interest:* philosophy. *Address:* UNESCO, Place de Fontenoy, 75007 Paris (Office); 14 rue José Maria Heredia, 75007 Paris, France (Home). *Telephone:* 273-15-35 (Home).

CARNEY, David PH.D., M.A., M.SC., DIP. PUB. ADMIN.; Sierra Leonean economist, administrator, teacher; b. 27 May 1925, Freetown; s. of David Edward and Esther Victoria Carney; m. Helen Elizabeth Smith-Hall 1960; one s. one d.; ed. Fourah Bay Coll., Sierra Leone, Univ. of Pennsylvania and School of Advanced Int. Studies, Johns Hopkins Univ., U.S.A.; lecturer, Fourah Bay Coll., Sierra Leone 1945-47; Statistician, Dept. of Statistics, Govt. of Nigeria, Lagos, and Lecturer, Extra-Mural Dept., Univ. of Ibadan 1948-52; Headmaster, Ghana Nat. Coll., Cape Coast, Ghana 1952-53; Lecturer, Lincoln Univ., Franklin and Marshall Coll., Pa., Fairleigh Dickinson Univ., N.J. 1953-58; Econ. Affairs Officer, Dept. of Econ. and Social Affairs, UN, New York 1958-60; Asst. Prof. of Econs., Antioch Coll., Yellow Springs, Ohio 1960-61; Econ. Adviser, Govt. of Sierra Leone 1961-63; UN African Inst. for Econ. Devt. and Planning, Dakar, Senegal 1963-70, Project Man. and Dir. April 1967-Aug. 1970; Chair. Comm. on Higher Educ. Sierra Leone 1969, East African Community 1970-72; Deputy Chief Economist 1970-72; UN Econ. Devt. Planning Advisor, St. Lucia 1973-75; mem. chocerciasis control programme 1975-; mem. Governing Board UNESCO Int. Inst. for Educational Planning 1970-73. *Publications:* Government and Economy in British West Africa 1961, A Ten-Year Plan of Economic and Social Development for Sierra Leone 1962/3–1971/2 1962, Patterns and Mechanics of Economic Growth 1967; numerous papers in nat. and int. journals. *Leisure interests:* writing poetry, stamp collecting. *Address:* 101 Regent Road, Freetown, Sierra Leone.

CARNOT, Lazare; French businessman; b. 9 Nov. 1903, Paris; s. of Ernest Carnot; m. Marie Rose Françoy 1936; two s. two d.; ed. Ecole Nationale Supérieure des Mines de Paris; mil. service 1926-27; mining engineer 1927-28; Dir. Rhône-Poulenc S.A., La Cellophane; Chevalier Légion d'honneur, Croix de guerre. *Address:* 24 Boulevard Maillot, 92 Neuilly sur Seine, France.

CARO, Anthony, C.B.E., M.A.; British sculptor; b. 8 March 1924, London; s. of Alfred and Mary Caro; m. Sheila Girling 1949; two s.; ed. Charterhouse School, Christ's Coll., Cambridge, Regent St. Polytechnic and Royal Acad. Schools, London; asst. to Henry Moore 1951-53; Part-time Lecturer St. Martin's School of Art, London 1952-72; taught at Bennington Coll. Vermont 1963-65; one-man exhbn. in Milan 1956, others subsequently in London, Washington, Toronto, New York, Houston, Hamburg, Zürich and in Netherlands; retrospective exhbn. Arts Council (Hayward Gallery, London) 1969; works in Tate Gallery, Arts Council, Museum of Modern Art (New York), Brandeis Univ. (Boston), Albright Knox Museum, Buffalo, N.Y., Cleveland Museum Ohio, Rijksmuseum Kroller-Muller (Otterloo, Netherlands); retrospective exhbn. (Sept. 1975-May 1976) Museum of Modern Art, New York, Walker Art Center, Minneapolis, Houston Museum of Fine Art, Boston Museum of Fine Art; presented keys to New York 1976; undertook commission for new East Building, Nat. Gallery of Art, Washington, D.C., 1977; Hon. D.Litt.; Sculpture Prize, Paris Biennale 1959, David E. Bright Award, Venice Biennale 1967; Prize for Sculpture, São Paulo Biennale 1969. *Leisure interest:* listening to music. *Address:* 111 Frognal, Hampstead, London, N.W.3, England.

CARPEAUX, Otto Maria, PH.D., LIT.D.; Brazilian journalist; b. 1900; ed. Vienna Univ. Dir. Library, Nat. Faculty of Philosophy, Rio de Janeiro 1941-45; Dir. Library, Getúlio Vargas Foundation, Rio de Janeiro 1945-49; Editor Correio da Manhã, Rio de Janeiro until 1967, Co-editor Brazilian Encyclopaedia Larousse 1967; Co-editor Visão, Rio de Janeiro 1969; Co-editor Encyclopaedia Mirador Internacional, Rio de Janeiro 1971; Italian Order of Merit. *Publications:* 12 vols of essays, Short Critical Bibliography of Brazilian Literature 1951, History of the Occidental Literatures (9 vols.) 1959-64, A New History of Music 1958, History of German Literature 1961, political essays 1965, 1966. *Address:* 101 Rua República do Peru, Rio de Janeiro, RJ, Brazil.

CARPENTIER Y VALMONT, Alejo; Cuban writer; b. 26 Dec. 1904; ed. Univ. de la Habana; fmr. journalist, radio station dir. and musicologist; travelled in Mexico, France, Spain, Belgium, Netherlands, Haiti, U.S.A. and upper reaches of Orinoco River; lectured in many countries including Eastern and Western Europe, China, Viet-Nam, U.S.S.R.; fmr. columnist El Nacional, Caracas, Venezuela; Cultural Attaché, Paris 1970-; Prix du Meilleur Livre Etranger for The Lost Steps 1956, Cino del Duca Prize 1975. *Publications:* Ecue-Yamba-O (novel) 1933, A History of Cuban Music, El Reino de Este Mundo (The Kingdom of this World) (novel) 1949, Los Pasos Perdidos (The Lost Steps) (novel) 1953, El Acoso (The Pursuit) (novel) 1956, Guerra de Tiempo (The War of Time) (short stories) 1958, El Siglo de las Luces (Explosion in a Cathedral) (novel) 1963, Reasons of State 1976. *Address:* Embassy of Cuba, 51 rue de la Faisanderie, 75016 Paris, France; Apdo. 6153, Havana, Cuba.

CARPINO, H.E. Cardinal Francesco; Italian ecclesiastic; b. 18 May 1905. Ordained Priest 1927; Titular Archbishop of Nicomedia 1951; Titular Archbishop of Sardica 1961; Archbishop of Palermo 1967-70; Assessor, Sacred Congregation of Bishops 1970-; created Cardinal by Pope Paul VI 1967. *Address:* 96010 Palazzolo Acreide, Syracuse, Italy.

CARPIO-CASTILLO, Ruben, PH.D.; Venezuelan diplomatist; b. 5 Aug. 1925; m.; three c.; ed. Instituto Pedagogico, Caracas, Univ. of Boston, Universidad Central de Venezuela. Prof. at Instituto Pedagogico de Caracas 1954-, Chief of Dept. of Social Sciences 1961-68; faculty mem., Universidad Central 1958, Dir., School of Geography 1974-; Deputy, Guarico State Legislative Council 1947; Deputy, Nat. Congress 1964-68, 1969-74; fmr. mem. Foreign Affairs Cttee., Chamber of Deputies; alternate Senator (until 1979); Amb. to Canada 1974-77, to Spain 1977-78; Perm. Rep. to UN 1978-; mem., Congress of the Interparliamentary Union 1964-74, del. to Third UN Conference on the Law of the Sea 1974-. *Publications:* (author or co-author); Mexico, Cuba y Venezuela: Triangulo Geopolitico del Caribe 1962, Geografia de Venezuela, vol. II 1965, El Golfo de Venezuela: Mar Territorial y Plataforma Continental 1970, Accion Democratica, Bosquejo Historico de un Partido 1971, Humboldt, Caldes, Codazzi; Sintesis Geografica de America Latina 1973. *Address:* Permanent Mission of Venezuela to the United Nations, 231 East 46th Street, New York, N.Y. 10017, U.S.A.

CARR, Edward Hallett, C.B.E.; British diplomatist, political scientist and historian; b. 28 June 1892, London; ed. Merchant Taylors School and Cambridge Univ. Entered Foreign Office 1916; mem. British Del. to Peace Conf. 1919; attached to Ambassadors' Conf. Paris 1920-21; First Sec. Legation Riga 1925-29; Asst. Adviser on L.N. Affairs, Foreign Office 1930-33, First Sec. 1933-36; Prof. of Int. Politics, Univ. Coll. Wales 1936-40; Dir. Foreign Div. Min. of Information 1939-40; Asst. Editor The Times 1941-45; Tutor in Politics, Balliol Coll. 1953-55, Hon. Fellow Balliol Coll. 1967-; Fellow Trinity Coll., Cambridge 1955-. *Publications:* Dostoevsky: a new biography 1931, The Romantic Exiles 1933, Karl Marx 1934, International Relations Since the Peace Treaties 1937, Michael Bakunin 1937, The Twenty Years' Crisis 1939, Britain: A Study of Foreign Policy from Versailles to the Outbreak of War 1939, Conditions of Peace 1942, Nationalism and After 1945, The Soviet Impact on the Western World 1946, Studies in Revolution 1950, The Bolshevik Revolution, 1917-1923, Vol. I 1950, Vol. II 1952, Vol. III 1953, The New Society 1951, German-Soviet Relations Between the Two World Wars 1951, The Interregnum 1923-1924 (continuation of The Bolshevik Revolution 1917-1923) 1954, Socialism in One Country 1924-26 Vol. I 1958, Vol. II 1959, Vol. III 1964, What is History? (The Trevelyan Lectures) 1961, 1917: Before and After 1969, Foundations of a Planned Economy, Vol. I (with R. W. Davies) 1969, Vol. II 1971, Vol. III Parts 1 and 2 1976. *Address:* Trinity College, Cambridge, England.

CARR, Col. Gerald Paul, M.SC.; American astronaut and engineer; b. 22 Aug. 1932, Denver, Colo.; s. of the late Thomas E. Carr and Freda L. Carr (née Wright); m. JoAnn R. Petrie 1954 (dissolved); three s. three d.; ed. Univ. of S. Calif., U.S. Naval Postgraduate School and Princeton Univ.; entered U.S. Navy 1949, commissioned U.S. Marine Corps 1954; selected as NASA astronaut April 1966; mem. astronaut support crew, Apollo VIII and XII flights; commdr. of Skylab III, launched Nov. 1973 on 84-day mission; retd. from U.S. Marine Corps 1975; retd. from NASA 1977; Vice. Pres. Bovay Engineers Inc. 1977-; U.S. Navy D.S.M., NASA D.S.M., F.A.I. Gold Medals, Komarov Diploma, Collier Trophy, Haley Astronautics Award, other mil. decorations and numerous awards. *Leisure interests:* racquet ball, handball, woodworking, fishing, bird hunting and restoration of an old automobile. *Address:* Manager, Corporate Business Development, Bovay Engineers Inc., 5619 Fannin Street, Houston, Tex. 77004, U.S.A. *Telephone:* (713) 529-4921 and (713) 525-2506.

CARR OF HADLEY, Baron (Life Peer), cr. 1975, of Monken Hadley in Greater London; **(Leonard) Robert Carr,** P.C.; British politician and business executive; b. 11 Nov. 1916, London; s. of Ralph Edward and Katie Elizabeth Carr; m. Joan Kathleen Twining 1943; one s. (deceased) two d.; ed. Westminster School and Gonville and Caius Coll., Cambridge; mem. of Parl. 1950-75, Parl. Private Sec. to Sec. of State for Foreign Affairs 1951-55, to Prime Minister April-Dec. 1955, Parl. Sec. Ministry of Labour and Nat. Service 1955-58, Sec. for Tech. Co-operation May 1963-Oct. 1964; Sec. of State for Employment 1970-72; Lord Pres. of Council and Leader of House of Commons April-Nov. 1972; Sec. of State Home Dept. 1972-74; joined John Dale Ltd. 1938, Chief Metallurgist 1945-48, Dir. of Research and Development 1948-55, Chair. 1959-63 and 1965-70; Dir. Carr, Day & Martin Ltd. 1947-55, Isotope Developments Ltd. 1950-55; Deputy Chair. and Joint Man. Dir. Metal Closures Group Ltd. 1960-63, Dir. 1965-70; Dir. Scottish Union and Nat. Insurance Co. (London) 1958-63; Dir. S. Hoffnung and Co. 1963, 1965-70, 1974-, Securicor Ltd. 1965-70, 1974-; Norwich Union Insurance Group (London) 1965-70, 1974-76; Dir. S.G.B. Group Ltd. 1974-, Prudential Assurance Co. 1976-; mem. Political Honours Scrutiny Cttee. 1977-; Conservative. *Publications:* Co-author One Nation 1950, Change is our Ally 1954, The Responsible Society 1958, One Europe 1965. *Leisure interests:* lawn tennis, gardening, music. *Address:* House of Lords, Westminster, London S.W.1 (Office); Monkenholt, Hadley Green, Barnet, Hertfordshire, England (Home).

CARRELLI, Antonio; Italian physicist; b. 1 July 1900, Naples; s. of Raffaele and Silvia (Scardaccione) Carrelli; m. 1st Nora Laliccia 1937, 2nd Lisetta Pellerano 1965; two s. one d.; ed. Università degli Studi, Naples; Prof. of Experimental Physics, Naples Univ. 1932–;Vice-Pres. Italian Radio and Television (R.T.I.) 1946-55, Pres. 1955-59; Pres. Microlamba Co. 1948-52 and Filotecnica salmoiraghi Co. 1948-52; Chair. Nat. Cttee. for Physics of Nat. Research Council, Scientific Cttee. of Italian Nat. Comm. of UNESCO; Vice-Pres. European Atomic Energy Comm. (EURATOM) 1964-67; Pres. Board of Dirs. of Posts and Telecommunications Ministry; mem. Accad. dei Lincei; several decorations. *Address:* Via dei Mille, Naples, Italy. *Telephone:* 417909.

CARRICK, Hon. John Leslie; Australian politician; b. 4 Sept. 1918, Sydney; s. of Arthur James and Emily Ellen (Terry) Carrick; m. Diana Margaret Hunter 1951; three d.; ed. Sydney Technical High School, Univ. of Sydney; commissioned Univ. of Sydney Regt. 1939, served in Australian Imperial Force, Sparrow Force; prisoner-of-war 1942-45; mem. Citizen Mil. Force 1948-51; Gen. Sec. N.S.W. Div. of Liberal Party of Australia 1948-71; mem. Senate 1971-; mem. Library Cttee. 1971-73, Senate Standing Cttee. on Educ., Science and the Arts 1971-75, Senate Standing Cttee. on Foreign Affairs and Defence 1971-75, Joint Cttee. on Foreign Affairs 1971-72, on Foreign Affairs and Defence 1973-75; Opposition Spokesman for Federalism and Intergovernment Relations 1975; Minister for Housing and Construction, for Urban and Regional Devt. Nov.-Dec. 1975; Minister for Educ. and Minister assisting the Prime Minister in Fed. Affairs 1975-78; Leader of Govt. in the Senate, Vice-Pres. of Exec. Council Aug. 1978-. *Leisure interests:* swimming, running, reading. *Address:* Parliament Buildings, Canberra, A.C.T.; 8 Montah Avenue, Killara, N.S.W., Australia (Home). *Telephone:* Sydney 498-6326 (Home).

CARRIER, George Francis, PH.D.; American professor of applied mathematics; b. 4 May 1918, Millinocket, Maine; s. of Charles Mosher Carrier and Mary Marcoux Carrier; m. Mary Casey Carrier; three s.; ed. Cornell Univ.; Research Engineer, Harvard Univ. 1944-46; Asst. Prof. Brown Univ. 1946-47, Assoc. Prof. 1947-48, Prof. 1948-52; Gordon McKay Prof. of Mech. Eng., Harvard Univ. 1952-72, Coolidge Prof. of Applied Maths. 1972-; mem. Nat. Acad. of Sciences; Fellow, Amer. Acad. of Arts and Sciences, Nat. Acad. of Eng.; Assoc. Editor, Journal of Fluid Mechanics; mem. Editorial Board SIAM Journal of Applied Mathematics; mem. Corpn. of Woods Hole Oceanographic Inst.; mem. of Board of Trustees Rensellaer Poly. Inst.; Hon. mem. A.S.M.E.; Hon. Fellow, Inst. for Maths. and its Applications; Pi Tau Sigma Richards Memorial Award, A.S.M.E. 1963. *Publications:* Functions of a Complex Variable: Theory and Technique (with M. Krook and C. E. Pearson) 1966, Ordinary Differential Equations (with C. E. Pearson) 1968, Partial Differential Equations (with C. E. Pearson) 1976; numerous articles. *Address:* Pierce Hall, Harvard University, Cambridge, Mass. 02138; Rice Spring Lane, Wayland, Mass. 01778, U.S.A. (Home).

CARRIÈRE, Jean P.; French international civil servant: b. 7 Nov. 1925, Chalon/Saône; s. of Julien Carrière and Alice Daubard; m. Françoise Emery 1953; two s. one d.; ed. Dijon Law School and Ecole Nationale d'Admin. Administrateur Civil, Ministry of Finance 1957; Financial Attaché for Near and Middle East, Beirut 1962; Dir. Office of Int. Orgs., Ministry of Finance 1964, Deputy Dir. Information Dept. 1967; Financial Attaché, French Embassy, Washington and Alt. Exec. Dir. IBRD 1968-72; Dir. European Office of World Bank (IBRD) 1972-78; Gen. Man. S.E.I.T.A. March 1978-; Order of the Cedar of Lebanon. *Publications:* La Relève de l'Or 1966, L'Or Jaune et l'Or Noir 1976. *Address:* S.E.I.T.A., 53 quai d'Orsay, 75007 Paris; 52 avenue Bosquet, 75007 Paris, France (Home).

CARRILES GALLARAGA, Eduardo; Spanish government official; b. Nov. 1923, Santander; joined Nat. Lawyers' Assen. 1944, later Assen.'s adviser to Pres. of Council of Ministers; mem. Comm. for Admin. Reform; now Pres. Consumer Comm. of Devt. Planning Authority; Vice-Pres. of EDICA; Pres. Radio Popular; mem. Man. of CEU, Man. Board of UDE; many positions in private business corpns.; mem. Consultative Cttee. of RENFE (Nat. Railways); Dir.-Gen. of Cía. Aseguradora La Unión y el Fénix Español (insurance co.) 1971-; Minister of Finance 1976-77. *Address:* c/o Ministerio de Hacienda, Alcalá 5-9, Madrid 14, Spain.

CARRILLO, Santiago; Spanish journalist and politician; b. 18 Jan. 1915, Gijón; s. of Wenceslao and Rosalía (Solares) Carrillo; m. Carmen Menéndez 1924; three s.; Sec.-Gen. Junta Socialista Unida 1936; Councillor of Public Order, Junta de Defensa de Madrid 1936; Sec.-Gen. Partido Comunista de España 1960-; mem. Congress of Deputies July 1977-. *Publications:* Después de Franco, Que?, Nuevos enfoques ■ problemas de hoy, Mañana España, Eurocomunismo y Estado. *Address:* Castelló 36, Madrid, Spain. *Telephone:* 4036800.

CARRILLO FLORES, Antonio; Mexican lawyer, banker and politician; b. 1909, Coyoacán, D.F.; s. of Julián Carrillo; m. Fanny Gamboa 1935; four s. two d.; ed. in New York and Escuela Nacional de Jurisprudencia, Mexico; Prof. Faculty of Jurisprudence, Univ. de Mexico 1932-; Joint Sec. Supreme Court of Justice 1933; Head Law Dept. Attorney-Gen.'s Office 1930-34 (except while with Supreme Court); Head, Law Dept., Ministry of Finance 1935-36; mem. Admin. Council Banco de México 1938; Dir.-Gen. of Credit Ministry of Finance 1941-45, of Nacional Financiera 1945-52; Sec. of the Treasury 1952-58; Amb. to U.S.A. 1959-64; Minister of Foreign Affairs 1964-70; Dir. Fondo de Cultura Económica 1970-; Sec.-Gen. UN World Population Conf. 1972-74; Adviser to Mexican Govt. on financial and int. matters 1977-; decorations from Belgium, Fed. Repub. of Germany, Netherlands, France, Italy, Brazil, Paraguay, Argentina, Guatemala, El Salvador, Honduras, Nicaragua, Panama, Chile, etc.; Dr. h.c. (Lincoln Coll., Southern Methodist Univ. and Harvard Univ.). *Publications:* Administrative Justice in Mexico 1939, The Mexican Financial System 1946, The Economy and Human Rights in the Mexican Constitution 1959, Ideas and Economic Development in the Process of the Mexican Revolution 1960, The Supreme Court in the United States and in Mexico 1964, Some Aspects of International Economic Co-operation 1967, Homages and Testimonies 1967, The Protection of Civil Rights in Today's Mexico 1971; The Supreme Court of Mexico, Reflexions in its sesquicentennial 1975, The Bucharest Population Conference 1975, The Evolution of the Administrative Law in Mexico in this Century 1976, Thirty Years in Mexican Diplomacy 1977. *Address:* Texas No. 26, México 19, D.F., Mexico.

CARRINGTON, 6th Baron; **Peter Alexander Rupert Carrington,** P.C., K.C.M.G., M.C.; British politician; b. 6 June 1919, London; s. of 5th Baron Carrington and The Hon. Sybil Marion Colville; m. Iona McClean; one s. two d.; ed. Eton Coll. and Royal Military Coll., Sandhurst; Grenadier Guards 1939, and served N.W. Europe; Parl. Sec. Ministry of Agriculture 1951-54, Ministry of Defence 1954-56; High Commr. in Australia 1956-59; First Lord of the Admiralty 1959-63; Minister without Portfolio (at the Foreign Office), Leader of the House of Lords 1963-64; Leader of the Opposition in the House of Lords 1964-70; Sec. of State for Defence 1970-74, also Minister of Aviation Supply 1971-74; Sec. of State for Energy Jan.-March 1974, for Foreign and Commonwealth Affairs May 1979-, Minister of Overseas Devt. May 1979-; Leader of the Opposition, House of Lords 1974-79; Chair. Conservative Party 1972-74; Chair. Australia and New Zealand Bank Ltd. 1967-70, Dir. Amalgamated Metal Corpn. Ltd. 1965-70, Cadbury Schweppes Ltd. 1968-70, 1974-79, Barclays Bank Ltd. 1967-70, 1974-79; Hambros Bank Ltd. 1967-70, Rio Tinto Zinc Corpn. Ltd. 1974-79. *Address:* House of Lords, London, S.W.1; Manor House, Bledlow, nr. Aylesbury, Buckinghamshire, England. *Telephone:* 08444-3499.

CARRO MARTINEZ, Antonio; Spanish lawyer, economist and politician; b. 3 May 1923, Lugo; s. of Arsenio Carro and Herminia Martinez; m. Lucia Marina de Orta 1955; two s. three d.; mem. Parl.; Sec.-Gen. (technical) Ministry of the Presidency; Dir.-Gen. Inst. of Local Admin. Studies; Dir.-Gen. of Local Admin. June-Dec.

1973; Minister of Presidential Affairs Dec. 1973-75; Grand Cross of Civil Merit, Order of Cisneros. *Publications:* Derecho Politico, Principios de Ciencia Politica, La Constitución Española de 1869. *Address:* Calle Hermosilla 14, Madrid 1, Spain.

CARROLL, Donal Shemus Allingham, F.C.A.; Irish banker; b. 26 Dec. 1927, Ireland; s. of Col. J. D. Carroll and Sheila Maunsell (née Flynn); m. Monica D. M. Moran 1951; one s. one d.; ed. Glenstal Abbey School, Limerick and Trinity Coll., Dublin; joined P. J. Carroll & Co. Ltd. 1952, Dir. 1955, Chair. 1960- and Man. Dir. 1960-71; mem. court of Dirs., Bank of Ireland 1956-, Deputy Gov. 1962-64; Gov. and Chair. Irish Banks Standing Cttee. 1964-70; Dir. Carreras Ltd. 1962, Vice-Chair. 1971-72; Dir. Rothmans Int. Ltd. 1972-; Chair. Carreras Rothmans Ltd. 1972-; Dir. Cen. Bank of Ireland 1970-; Chair. Lloyds & BOLSA Int. Bank Ltd. 1971-73; mem. Public Services Advisory Council 1973-; Dir. Dunlop Holdings Ltd.; Dir. Irish Times Holdings, Irish Times Trust, Fieldcrest Ireland Ltd. 1977-; Hon. LL.D. (Dublin) 1969. *Leisure interests:* gardening, reading. *Address:* P. J. Carroll & Co. Ltd., Grand Parade, Dublin 6, Ireland. *Telephone:* Dublin 767555.

CARROLL, Julian Morton; American politician; b. 16 April 1931, Paducah, Ky.; m. Charlann Harting; two s. two d.; ed. Paducah Junior Coll., Univ. of Kentucky; served in U.S.A.F.; opened a law firm in Paducah; mem. from McCracken County, Ky. House of Reps. 1962-73, Ky. Senate 1974-75; Speaker of Ky. House of Reps. 1968-71; Lieut.-Gov. of Ky. 1971-74, Gov. of Kentucky Dec. 1974–;Pres. Paducah Optimist Club 1962; Chair. Nat. Govs.' Asscn.; mem. McCracken County, Kentucky, American Bar Asscns.; Moderator, Kentucky Synod of Cumberland Presbyterian Church; mem. Judiciary Board of Gen. Assembly of Cumberland Presbyterian Church; mem. Natural Resources and Environmental Man. Cttee. of Southern Govs.' Conf.; fmrly. States' Co-Chair. Appalachian Regional Comm.; Dr. h.c. from four Univs.; Minerva Award (Louisville Univ.). *Leisure interests:* hunting, fishing, golf. *Address:* Governor's Office, State Capitol Building, Frankfort, Ky. 40601, U.S.A. *Telephone:* (502) 564-2611.

CARRUTHERS, Robert, B.SC. (ENG.), C.ENG., A.C.G.I., F.I.E.E.; British electrical engineer; b. 29 Jan, 1921, Leeds; s. of Mr. and Mrs. J. Carruthers; m. Phyllis Kathleen Deal 1945; two d.; ed. Harrow County School and London Univ. City and Guilds Coll.; Research at Telecommunications Research Establishment, Swanage and Great Malvern 1941-46, Research engineer with Messrs. Standard Telecommunication Laboratories Ltd. devt. of R.F. equipment for microwave radio links 1946-47; research and development of synchrotrons, Atomic Energy Research Establishment 1947-51; research work on gas discharge phenomena and their application to the field of controlled thermonuclear reactors; Senior Principal Scientist, Atomic Energy Research Establishment, Harwell; Head, Applied Physics and Technology Division, Culham Laboratory 1961-. *Address:* Norman Cottage, 32 Norman Avenue, Abingdon, Oxon. OX14 2HJ, England. *Telephone:* Abingdon 20386.

CARSON, William Hunter; British jockey; b. 16 Nov. 1942, Stirling, Scotland; s. of Thomas Whelan and Mary Hay (Hunter) Carson; m. Carole Jane Sutton 1962 (divorced 1978); three s.; ed. Riverside School; Apprentice with Capt. G. Armstrong 1957-62; rode first winner Pinker's Pond at Catterick 1962; rode for Sam Armstrong, Newmarket 1962-68; First Jockey to Lord Derby 1968, to Bernard van Cutsem 1971-75, to Maj. Dick Hern 1977, to H.M. The Queen 1977; Champion Jockey 1972, 1973, 1978; won 2,000 guineas race 1972, Oaks and St. Leger 1977. *Leisure interest:* fox hunting. *Address:* Roachan, Eastbury, near Newbury, Berks., England.

CARSTAIRS, George Morrison, M.A., M.D., F.R.C.P.E., F.R.C.PSYCH.; British psychiatrist; b. 18 June 1916, Mussoorie, India; s. of Rev. George Carstairs, D.D., and Elizabeth H. Carstairs; m. Vera Hunt 1950; two s. one d.; ed. George Watson's Coll., Edinburgh and Edinburgh Univ.; Medical Officer, Fighter Command, R.A.F. 1942-46; Commonwealth Fund Fellow, U.S.A. 1948-49, Rockefeller Research Fellow, India 1950-51, Henderson Research Scholar, India 1951-52; Registrar, Maudsley Hospital, London 1953; Scientific Staff, Medical Research Council Social Psychiatry Research Unit 1954-60, Hon. Consultant, Maudsley Hospital 1956-60; Dir. Medical Research Council Unit for Research on Epidemiology of Psychiatric Illness 1960-71; Prof. of Psychiatry, Univ. of Edinburgh 1961-73; Vice-Chancellor, Univ. of York 1974-78; Visiting Prof. of Psychiatry, Nat. Inst. of Mental Health and Neuro-Sciences, Bangalore, India 1978-; B.B.C. Reith Lecturer 1962; Pres. World Fed. for Mental Health 1967-71. *Publications:* The Twice Born 1957, This Island Now (the 1962 Reith Lectures) 1963, The Great Universe of Kota 1976. *Leisure interests:* theatre, travel. *Address:* National Institute of Mental Health and Neuro-Sciences, Post Bag 2779, Bangalore, India.

CARSTENS, Karl, DR. IUR.; German lawyer and politician; b. 14 Dec. 1914, Bremen; m. Veronica Prior 1944; ed. Univs. of Frankfurt, Dijon, Munich, Königsberg, Hamburg and Yale; war service 1939-45; lawyer, Bremen 1945-49; Rep. of Free Hanseatic City of Bremen to Fed. Govt., Bonn 1949-54; Fed. German Del. to Council of Europe, Strasbourg 1954-55; Dep. Head. Political Div., Fed. Foreign Affairs 1961-66, Deputy of Fed. Minister of Defence 1966-67; Head of the Fed. Chancellor's Office 1968-69; Prof. of Law, Univ. of Cologne 1960-73; Dir. Research Inst., German Soc. for Foreign Affairs 1970-73; Dir. Research Inst., German Soc. for Foreign Affairs 1970-73; mem. Bundestag 1972-79, Pres. 1976-79; Pres. Fed. Repub. of Germany July 1979-; Parl. Leader Christian Democrats 1973-76. *Publications:* Grundgedanken der amerikanischen Verfassen und ihre Verwirklichung 1954, Das Recht des Europarats 1956, Politische Führung 1971. *Address:* Office of the President, 5300 Bonn, Federal Republic of Germany.

CARTAN, Henri Paul, D. ÈS SC.; French mathematician; b. 8 July 1904, Nancy; s. of Elie Cartan; m. Nicole Weiss 1935; two s. three d.; ed. Lycée Buffon, Lycée Hoche, Versailles and Ecole Normale Supérieure; Teacher, Lycée, Caen 1928; Lecturer, Faculty of Science, Lille Univ. 1929-31; Prof. Faculty of Science, Strasbourg Univ. 1931-40, Univ. of Paris 1940-69, Univ. de Paris-Sud (Orsay) 1969-75; Pres. French Section, European Assen. of Teachers 1957-75; Pres. Int. Mathematical Union 1967-70; Pres. Mouvement Fédéraliste Européen (France) 1974-; mem. Royal Acad., Denmark 1962; Corresp. Acad. des Sciences 1965, mem. 1974-; Foreign mem. Royal Soc. 1971; Foreign Hon. mem. American Acad. 1950, Foreign Assoc. Nat. Acad. of Sciences, Washington 1972, Acad. Royale Belgique 1978; Corresp. Akad. der Wissenschaften Göttingen 1971, Royal Acad. of Sciences, Madrid 1971, Bayerische Akad. der Wissenschaften 1974; Officier de la Légion d'honneur. *Address:* Département de Mathématique, Université de Paris-Sud, 91405-Orsay (Office); 95 boulevard Jourdan, 75014 Paris, France (Home). *Telephone:* 540-51-78 (Home).

CARTER, Benjamin Chadwick, A.B., C.P.A.; American business executive; b. 14 Jan. 1907, Rainier, Ore.; s. of Frank F. Carter and Mary R. Chadwick; m. Thelma R. Grothe 1934; one s. three d.; ed. Menlo School and Stanford Univ.; Accountant, Price, Waterhouse and Co. 1929-34; Asst. to Controller FMC, San Jose 1934, Asst. Controller 1934-40, Controller 1940-52, Vice-Pres. 1946-52, Dir. 1946-, Exec. Vice-Pres., Machinery Divs. 1952-60, Exec. Vice-Pres., Finance, 1960-66, Vice-Chair. Board of Dirs. 1966-71, Chair. 1971-73; Dir. Bank of Calif.; Dir. Emer. Menlo School and Coll. *Leisure interests:* golf, bridge, travel, gardening. *Address:* 15600 Alum Rock Av., San Jose, Calif. 95127, U.S.A. *Telephone:* 408-272-0397.

CARTER, Hon. Sir Douglas Julian, K.C.M.G; New Zealand farmer, politician and diplomatist; b. 5 Aug. 1908, Foxton; s. of Walter Stephen Carter and Agnes Isobel Nimmo; m. Mavis R. Miles 1936; ed. Palmerston North High School, Waitaki Boys' High School; mem. Parl. (Nat.) Raglan 1957-75; Parl. Under-Sec. of Agriculture 1967-70; Minister of Agriculture 1970-72; High Commr. to U.K. 1976-79; Chair. N.Z. Pig Producers' Council 1952-57, N.Z. Sharemilker Employers Assen. 1954-69. *Leisure interest:* travel. *Address:* c/o Ministry of Foreign Affairs, Private Bag, Auckland, New Zealand.

CARTER, Edward Robert Erskine, B.C.L., Q.C.; Canadian lawyer; b. 20 Feb. 1923, Saint John, New Brunswick; s. of Arthur Norwood and Edith Isobel Ireland; m. Verna Leman Andrews 1947; two s. two d.; ed. Univ. of New Brunswick, Osgoode Hall, Toronto, and Oxford Univ. (Rhodes Scholar); Mil. Service 1942-45; read law with McMillan, Binch, Wilkinson, Berry & Wright, Toronto; called to Bar of New Brunswick 1947, Bar of Ontario 1951; Assoc. with A. N. Carter, Q.C., law practice, Saint John, N.B. 1949-53; Legal Officer, Abitibi Power & Paper Co. Ltd., Toronto 1953-54; joined Fennell, McLean, Seed & Carter 1954, Partner 1955-58; Pres. and Chief Exec. Patiño Group 1957-72; Pres. and Chief Exec. Officer Hambro Canada Ltd. 1973-75; Counsel, Bordern and Elliott, Barristers and Solicitors, Toronto 1977-; Chair. and Pres. Advocate Mines Ltd.; Dir. Bank of Montreal, Westroc Industries Ltd., Sun Alliance Insurance Co., Global Natural Resources Properties Ltd.; mem. Law Soc. of Upper Canada; Hon. Consul for Norway. *Address:* 7th Floor, 250 University Avenue, Toronto, M5H 3EG, Canada. *Telephone:* 593-5511.

CARTER, Edward W.; American businessman; b. 29 June 1911; ed. Univ. of California, Harvard Univ.; Chair. of Bd. Carter Hawley Hale Stores, Inc., Los Angeles; Dir. American Telephone and Telegraph Co., Del Monte Corpn., Pacific Mutual Life Insurance Co., Southern Calif. Edison Co., Western Bancorporation; mem. Board of Regents, Univ. of Calif.; Trustee of Los Angeles County Museum of Art, Occidental Coll., The Brookings Inst., Washington, D.C.,

Cttee, for Econ. Devt.; Dir. Southern Calif. Symphony Assn., San Francisco Opera Assn., Stanford Research Inst., James Irvine Foundation, Santa Anita Foundation; mem. Business Council, Business Cttee. for the Arts, Harvard Business School Overseers Visiting Cttee., Harvard Board of Overseers' Cttee. on Univ. Resources, Rockefeller Univ. Council, UCLA Business School Visiting Cttee., The Conf. Board, Council on Foreign Relations. *Address:* 550 South Flower Street, Los Angeles, Calif., U.S.A. *Telephone:* 213-620-0150.

CARTER, Elliott Cook, Jr., A.B., A.M.; American composer; b. 11 Dec. 1908, New York; m. Helen Frost-Jones 1939; one s.; ed. Harvard Univ., Ecole Normale de Musique, Paris. Musical Dir. Ballet Caravan 1937-39; critic Modern Music 1937-42; tutor St. John's Coll., Annapolis 1939-41; teacher of composition Peabody Conservatory 1946-48, Columbia Univ. 1948-50, Queen's Coll. (N.Y.) 1955-56; Prof. of Music, Yale Univ. 1960; Andrew White Prof.-at-Large, Cornell Univ. 1967-; mem. Board of Trustees, American Acad., Rome; mem. Int. Soc. for Contemporary Music, Dir. 1946-52, Pres. American Section 1952, Nat. Inst. of Arts and Letters; Hon. degrees Swarthmore Coll. and Princeton Univ. 1969, Univs. of Harvard, Yale and Boston 1970; American Composers' Alliance Prize (for Quartet for Four Saxophones) 1943, First Prize Liège Int. Music Competition 1953, Prix de Rome 1953, Pulitzer Prize (for Second String Quartet), Sibelius Medal 1960, New York Critics Circle Award (for Double Concerto) 1961, Pulitzer Prize (for Third Strong Quartet) 1973; Gold Medal, Nat. Inst. of Arts and Letters 1971, Handel Medallion of New York 1978. *Works include: (Orchestral):* Symphony No. 1 1954, Variations for Orchestra 1955, Double Concerto 1961, Piano Concerto 1965, Concerto for Orchestra 1969, Symphony of Three Orchestras 1977; (Chamber): Elegy 1943, Sonata for Cello and Piano, Woodwind Quintet 1948, Sonata for Flute, Oboe, Cello and Harpsichord 1952, Brass Quintet 1974, three String Quartets 1951-71; (Vocal): A Mirror on Which to Dwell 1975; (Choral): The Defense of Corinth 1949; (Instrumental): Piano Sonata 1946; (Stage Works): The Minotaur 1947, Pocahontas 1939. *Address:* Mead Street, Waccabuc, N.Y. 10597, U.S.A.

CARTER, Herbert Edmund, A.B., M.S., PH.D.; American professor of biochemistry and college administrator; b. 29 Sept. 1910, Mooresville, Ind.; s. of George B. Carter and Edna Pidgeon Carter; m. Elizabeth DeWees 1933; two d.; ed. DePauw Univ. and Univ. of Illinois; Instructor in Biochemistry, Univ. of Ill., Urbana 1932-35, Assoc. 1935-37, Asst. Prof. of Biochem. 1937-43, Assoc. Prof. 1943-45, Prof. 1945-, Head of Dept. of Chem. and Chem. Eng. 1954-67, Acting Dean, Graduate Coll. 1963-65, Vice-Chancellor for Academic Affairs 1967-71; Co-ordinator interdisciplinary Programmes, Univ. of Ariz. 1971-77, Head Dept. of Biochemistry 1977-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Nat. Science Board 1964, Chair. 1970; Eli Lilly Award in Biochem. 1943; Nichols Medal 1965; American Oil Chemists Soc. Award in Lipid Chem. 1966; Kenneth A. Sencer Award 1968, Alton E. Bailey Award 1970. *Publications:* some 130 papers in various chemical and biochemical journals; Editor-in-Chief Vol. I of Biochemical Preparations. *Leisure interests:* squash, golf. *Address:* University of Arizona, Tucson, Ariz. (Office); 2401 Cerrada de Promesa, Tucson, Ariz. 85718, U.S.A. (Home).

CARTER, Jimmy (James Earl, Jr.); American farmer and politician; b. 1 Oct. 1924, Plains, Ga.; s. of James Earl Carter Sr. and Lillian Gordy; m. Rosalynn Smith 1946; three s. one d.; ed. Plains High School, Georgia Southwestern Coll., Georgia Inst. of Tech., U.S. Naval Acad., Annapolis, Md.; served U.S. Navy 1946-53, attained rank of Lieut.-Commdr.; peanut farmer, warehouseman 1953, businesses Carter Farms, Carter Warehouses, Ga.; State Senator, Ga. 1962-66; Gov. of Georgia 1971-74; Pres. of U.S.A. Jan. 1977-; Democrat. *Leisure interests:* reading, tennis. *Address:* The White House, 1600 Pennsylvania Avenue, Washington, D.C. 20500 (Office); 1 Woodland Drive, Plains, Ga. 31780, U.S.A. (Home).

CARTER, Sir John, Kt., LL.B., Q.C.; Guyanese diplomatist; b. 27 Jan. 1919; ed. Queen's Coll., Georgetown, and London Univ.; called to Bar, Middle Temple, London 1942; Law practice British Guiana 1945-66; mem. British Guiana Legislature 1948-53, 1961-64; Pro-Chancellor Univ. of Guyana 1962-66; Perm. Rep. of Guyana to UN 1966; Amb. to U.S.A. 1966-69, to Yugoslavia 1969-70; High Commr. to U.K. 1970-76, concurrently Amb. to Fed. Repub. of Germany, France, Netherlands and U.S.S.R.; Amb. to People's Repub. of China (also accred. to Dem. People's Repub. of Korea) 1976-. *Address:* Embassy of Guyana, Peking, People's Republic of China.

CARTER, J. Edwin, B.SC.; Canadian company executive; b. 3 April 1915, Jackson, Ga.; m. Virginia Meredith Crickmer; one s. one d.; ed. Georgia Inst. of Tech. Metallurgist, Huntington Alloys Inc. (a U.S. subsidiary of Inco Ltd.) 1937; rose to rank of Major in U.S. Army during World War II; various posts with Huntington Alloys, rising to Pres. 1945-71; transferred to Inco Ltd., Canada 1971, Vice-Pres. 1971-72, Exec. Vice-Pres. 1972-74, Dir. Feb. 1973-; Pres. 1974-77, Chair. and Chief Exec. officer April 1977-; Dir. Toronto-Dominion Bank, C. D. Howe Research Inst., Int. Copper Research Assn. Inc.; mem. British-North American Cttee., Canadian Inst. of Mining and Metallurgy, American Soc. for Metals, American Chem. Soc.; Pres. W.Va. Mfrs'. Assn. 1969-71; Gold Knight of Industry award, Nat. Man. Assn. 1965. *Leisure interest:* golf. *Address:* Inco Ltd., P.O. Box 44, 1 First Canadian Place, Toronto, Ont., M5X 1C4 (Office); 66 Collier Street, Toronto, Ont., M4W 1L9 Canada (Home). *Telephone:* (416) 361-7720.

CARTER, Lieut.-Gen. Marshall Sylvester, M.S.; American army officer and government official; b. 16 Sept. 1909, Fortress Monroe, Va.; s. of the late Brig. Gen. Clifton Carroll Carter and Mai Coleman Carter; m. Préot Nichols 1934; one s. two d.; ed. U.S. Military Acad., Mass. Inst. of Technology, and Nat. War Coll. 2nd Lieut., U.S. Army 1931; service with artillery, Honolulu, Panama; Staff Officer, Washington 1942-45; China Theatre 1945-46; Special Asst. to Sec. of State 1947-49; Minister, American Embassy, London 1949; Exec. to Sec. of Defense 1950-52; Deputy Commdg. Gen., U.S. Army Alaska 1952-55; Commdg. Gen. 5th Army Air Defense Region 1955-56; Chief of Staff, North American Air Defense Command, Colorado Springs 1957-59, Continental Air Defense Command 1956-59; Chief of Staff, 8th Army, Korea 1959-61; Commdg. Gen., Army Air Defense Center, Commdt. Army Air Defense School 1961-62; Deputy Dir. CIA 1962-65; Dir. Nat. Security Agency 1965-69; retd. from military service as Lieut.-Gen. 1969; Pres. George C. Marshall Research Foundation 1969-; Cheyenne Mountain Zoological Soc.; D.S.M. with two Oak Leaf Cluster, Legion of Merit with Oak Leaf Cluster, Bronze Star Medal, Distinguished Intelligence Medal, etc. *Leisure interests:* hunting, fishing, ecology. *Address;* 655 Bear Paw Lane, Colorado Springs, Colo. 80906, U.S.A. *Telephone:* 303-471-0692.

CARTIER-BRESSON, Henri; French photographer; b. 22 Aug. 1908, Paris; studied painting in André Lhote's studio; took up photography 1931; Asst. Dir. to Jean Renoir 1936, 1939; prisoner of war 1940-43, escaped; founded Magnum-Photos with Capa, Chim, and Rodger 1946; exhibitions Madrid, New York 1933, New York Museum of Modern Art 1946, The Louvre, Paris 1954, Phillips Collection, Washington 1964, Tokyo 1965, New York Museum of Modern Art 1968, Victoria and Albert Museum, London 1969, Grand Palais, Paris 1970; drawing exhibitions New York, Zurich 1975; collection of 390 photographs at Menil Foundation, Houston, U.S.A., Victoria and Albert Museum, London, Univ. of Fine Arts, Osaka, Japan, and Bibliothèque Nationale, Paris, exhibited Edinburgh Festival, Hayward Gallery, London 1978; Overseas Press Club awards; D.Lit.h.c., Oxford Univ. 1975. *Publications:* Images à la sauvette (U.S. edition The Decisive Moment), The Europeans, From One China to the Other, The People of Moscow, Danses à Bali, The World of Henri Cartier-Bresson 1968, L'homme et la machine 1968, Vive la France 1970, Cartier-Bresson's France 1971, Faces of Asia 1972, About Russia 1974. *Address:* c/o Magnum-Photos, 2 rue Christine, 75006 Paris, France; c/o Helen Wright, 135 East 74 Street, New York, N.Y., U.S.A.; c/o John Hillelson, 145 Fleet Street, London, England.

CARTWRIGHT, Rt. Hon. John Robert, P.C., C.C., M.C., Q.C., D.C.L., LL.D.; Canadian judge; b. 23 March 1895, Toronto; s. of James Strachan Cartwright, K.C., and Jane Elizabeth Young; m. 1st Jessie Carnegie Gibson 1915, one d.; m. 2nd Mrs. Mabel Ethelwyn Tremaine 1967; ed. Upper Canada Coll., Toronto, and Osgoode Hall, Toronto; served in First World War 1914-19; awarded Military Cross 1917; called to the Bar, Toronto 1920; practised Toronto 1920-49; K.C. 1933; Judge Supreme Court of Canada 1949-67; Chief Justice 1967-70; Bencher of the Law Soc. of Upper Canada 1946-; retd. 1970; Order of Canada 1970. *Address:* Leitchcroft Farm, c/o Thornhill P.O., Ontario L3T 3M9, Canada.

CARTWRIGHT, Dame Mary Lucy, D.B.E., M.A., D.PHIL., SC.D., F.R.S.; British mathematician; b. 17 Dec. 1900, Aynhoe, Northants; d. of Rev. W.. D. Cartwright and Lucy H. M. Cartwright, sister of William Frederick Cartwright, *q.v.*; ed. Godolphin School, Salisbury, and St. Hugh's Coll., Oxford; Asst. Mistress, Alice Ottley School, Worcester 1923-24, Wycombe Abbey School, Bucks. 1924-27; Yarrow Research Fellow, Girton Coll. 1930-34; Faculty Asst. Lecturer in Mathematics, Cambridge 1933-35; Fellow and Lecturer, Girton Coll. 1934-49; Mistress of Girton Coll. 1949-68, Life Fellow 1968-, Univ. Lecturer in Mathematics, Cambridge 1936-59, Reader in the Theory of Functions 1959-68, Emer. Reader 1968-; Consultant on U.S. Navy Mathematical Research Projects at Stanford and Princeton Univs. 1949; Fellow, Cambridge Philosophical Soc.; Vice-Pres. London Mathematical Soc. 1936-38; Pres. Mathematical Assn. 1951-52; London Mathematical Soc. 1961-63; Visiting Prof.

Brown Univ., Providence R.I. 1968-69, Claremont Graduate School 1969, Case Western Reserve Univ. 1970, Poland 1970, Univ. of Wales 1971, Case Western Reserve Univ. Cleveland 1971; Hon. F.R.S.E.; Hon. LL.D. (Edinburgh Univ.), Hon. D.Sc. (Leeds Univ., Hull Univ., Univs. of Wales, Oxford and Brown, R.I.); Commdr. Order of the Dannebrog (Denmark), Sylvester Medal of Royal Soc., De Morgan Medal of London Mathematical Soc., Medal of Univ. of Jyväskylä (Finland). *Address:* 38, Sherlock Close, Cambridge, CB3 0HP, England. *Telephone:* 52574.

CARTWRIGHT, William Frederick, D.L., LL.D., M.I.MECH.E.; British engineer; b. 13 Nov. 1906, Aynhoe, Northants; s. of Rev. W. D. Cartwright and Lucy H. M. Cartwright, brother of M. L. Cartwright *q.v.*; m. Sally Chrystobel Ware 1937; two s. one d.; ed. Dragon School, Oxford and Rugby; Chief Mechanical Engineer's Dept., Great Western Railway 1925-29; Guest, Keen and Nettlefolds Ltd., Dowlais 1929-30; student, German and French steelworks 1930-31; Asst. to Works Man. Guest, Keen, Baldwins Iron and Steel Co. Ltd., Port Talbot 1931-35, Technical Asst. to Man. Dir. 1935-40, Dir. and Chief Engineer, Guest, Keen, Baldwins Iron and Steel Co. Ltd. 1940-43, Gen. Man. Margam and Port Talbot Works 1943-47; Dir. Steel Co. of Wales 1947-, Gen. Man. Steel Div. 1947-62, Asst. Man. Dir. and Gen. Man. 1954-62, Man. Dir. 1962-67, Chair. Feb.-July 1967; Man. Dir. S. Wales Group, British Steel Corpn. 1967-70; Deputy Chair. British Steel Corpn. 1970-73; mem. Bd. of Davy Corpn., Bessemer Gold Medal, Iron and Steel Inst. 1958. *Leisure interests:* riding and yachting. *Address:* Castle-upon-Alun, St. Bride's Major, nr. Bridgend, Glamorgan, Wales. *Telephone:* Southerndown 298.

CARVALHO, José Candido de Melo, PH.D.; Brazilian zoologist and entomologist; b. 11 June 1914, Carmo do Rio Claro, Minas Gerais; s. of João Candido de Melo Carvalho and Ana da Silva Vilela Carvalho; m. Milza Freire Carvalho 1939; one d.; ed. Escola Superior de Agricultura e Veterinária, Viçosa, Univ. of Nebraska, and Iowa Univ. of Science and Technology; Prof. of Biology and Zoology, Viçosa 1942-46; Zoologist, Museu Nacional, Rio de Janeiro 1946-, Dir. of Museu Nacional 1955-61; Dir. Museu Goeldi, Belém 1954-55; Vice-Pres. Nat. Research Council, Brazil 1962-63; mem. Exec. Board Int. Union for Conservation of Nature 1963-70; Pres. Asscn. for Tropical Biology 1965-66; Prof. Nat. Coll. of Geology, Rio de Janeiro 1960-; mem. Council, Univ. of Brazil 1955-61, Nat. Council for Protection of Indians 1955-58, Council for Nat. Culture 1959-60; Pres. Perm. Cttee. Int. Congress on Entomology 1952-, Latin American Congresses on Zoology 1962-; mem. Brazilian Acad. of Sciences, Vice-Pres. 1955-56; John Simon Guggenheim Fellow 1954-55; British Council Fellow 1951; Corresp. mem. Zoological Soc. of London; carried out twelve expeditions to Hyléa (Amazonas); Pres. Brazilian Foundation for Nature Conservation 1966-69; Hon. mem. Mexican Inst. Nat. Research 1967-; Fellow Agra Zoological Soc. 1964-; mem. Directorate of Nat. Indian Foundation 1967-70; mem. Natural Resources Res. Comm. UNESCO 1969-; Chief Assessor Pres. Brazilian Inst. Forestry Devt. 1971-; Vice-Pres. Brazilian Soc. for Ecology 1971-; Pres. Section Entomology, Int. Union of Biological Sciences 1972-; mem. Council for Research and Post-Graduation, Fed. Univ. of Rio de Janeiro 1973-; Consulting Editor Biological Conservation 1968-; mem. Fed. Council of Culture 1974-; Senior Scientific Fellow, N.S.F. 1971-; Co-editor Amazoniana 1971-; mem. Brazilian Comm. on Man and the Biosphere 1975; Coordinator on Tech. Comm. of Brazilian Foundation for Nature Conservation 1975; Chair. Comm. on Zoology, Ecology, Botany, Brazilian Nat. Research Council 1975; Vice-Pres. Fed. Council of Culture 1977; Prizes: Mello Leitão 1951, Costa Lima of Brazilian Acad. of Sciences 1966, Gold Medal World Wildlife Fund 1973. *Publications:* Notas de Viagem ao Rio Negro 1952, Notas de Viagem ao Javari-Itacoai-Jurua 1955, Notas de Viagem ao Paru de Leste 1955, Key to the Genera of Miridae of the World 1955, Insects of Micronesia (Miridae) 1956, Catalogue of the Miridae of the World (5 vols.) 1957-60, The Miridae of Galapagos 1967, Notas de viagem de um zoólogo à região das catingas ■ áreas limítrofes 1969, and numerous papers on zoology, entomology, etc. *Address:* Museu Nacional, Quinta da Boa Vista, Rio de Janeiro, RJ; Rue Campos Sales 143, Apt. 601, Rio de Janeiro, RJ Brazil. *Telephone:* 2287010 (Office); 2486794 (Home).

CARVER, Baron (Life Peer), cr. 1977; **Field-Marshal Richard Michael Power Carver,** G.C.B., C.B.E., D.S.O., M.C.; British army officer; b. 24 April 1915, Bletchingley, Surrey; s. of Harold Power Carver and Winifred A. G. née Wellesley; m. Edith Lowry-Corry 1947; two s. two d.; ed. Winchester Coll. and Royal Military Acad., Sandhurst; with 7th Armoured Div. 1942, 1st Royal Tank Regt. 1943, 4th Armoured Brigade 1944; Ministry of Supply 1947; Allied Forces, Central Europe and SHAPE 1951-54; Deputy Chief of Staff, East Africa Command 1954-56; Dir. of Plans, War Office 1958-59; Commdr. 6th Infantry Brigade 1960-62; G.O.C. 3rd Div. (Maj.-Gen.) 1962-64; Dir. Army Staff Duties 1964-66; Commdr. Far East Land Forces (Lieut.-Gen.) 1966-67; C.-in-C. Far East (Gen.) 1967-69; G.O.C.-in-C. Southern Command 1969-71; Chief of Gen. Staff 1971-73; Chief of Defence Staff 1973-76; Commr.-designate for Rhodesia 1977-78. *Publications:* Second to None 1950, El Alamein 1962, Tobruk 1964, War Lords (Ed.) 1976, Harding of Petherton 1978. *Leisure interests:* writing, reading, gardening, tennis, sailing. *Address:* Wood End House, Wickham, near Fareham, Hants., PO17 6J2, England (Home). *Telephone:* (0329) 832143.

CARY, Frank T., M.B.A.; American business executive; b. Idaho; m. four c.; ed. Univ. of Calif. (Los Angeles) and Stanford Univ.; joined Int. Business Machines Corpn. 1948; IBM Vice-Pres. and Group Exec. and Gen. Man. Data Processing Group 1966; Senior Vice-Pres. 1967; mem. Board of Dirs. IBM Corpn. 1968, Exec. Vice-Pres. and mem. Exec. Cttee. March 1971; Pres. IBM Corpn. 1971-74, Chair. of the Board and Chief Exec. 1973-; Dir. J. P. Morgan & Co., Morgan Guaranty Trust Co.; mem. Business Council, Board of Trustees, American Museum of Natural History, Mass. Inst. of Technology, the Conf. Board. *Address:* International Business Machines Corpn., Armonk, N.Y. 10504, U.S.A. *Telephone:* 914-765-1900.

CARY, William Lucius, A.B., LL.B., LL.D., M.B.A.; American university professor, lawyer and government official; b. 27 Nov. 1910, Columbus, Ohio; s. of late William L. and Ellen K. Cary; m. Katherine L. Fenimore Cooper 1954; two d.; ed. Yale and Harvard Univs.; admitted Ohio Bar 1934, law practice 1934-36; Securities & Exchange Comm. 1938-40, Dept. of Justice 1940-42, Office of Coordinator of Inter-American Affairs, Rio de Janeiro 1942; Dir. Newark Telephone Co. 1936-; Lecturer, Finance and Law, Harvard Graduate School of Business Admin. 1946-47; Prof. Law Northwestern Univ. School of Law 1947-55, Columbia Univ. 1955-61, Dwight Prof. of Law, Columbia Univ. 1964-; Counsel, Patterson, Belknap, Webb and Tyler, New York, Arthur Anderson and Co.; Board of Public Review; Chair. Securities and Exchange Comm. 1961-64; mem. American Law Inst., American Acad. of Arts and Sciences; Democrat. *Publications:* The Effect of Taxation on Corporate Mergers 1951, Cases and Materials on Corporations 1959 and 1969, Politics and the Regulatory Agencies 1967, The Law and the Lore of Endowment Funds 1969. *Leisure interests:* tennis, music. *Address:* Columbia University School of Law, New York, N.Y. 10027, U.S.A. *Telephone:* 280-2644.

CASA-DEBELJEVIC, Lisa Della; Swiss singer; ed. Berne Conservatoire; Début at Zürich Opera House 1943; mem. Vienna State Opera Co. 1947-, New York Metropolitan Opera Co. 1953-; has appeared at Festivals at Salzburg 1947, 1948, 1950, 1953-58, Glyndebourne 1951, Bayreuth, Edinburgh 1952, Zürich, Lucerne, Munich 1951-58; has also appeared in London, Berlin, Paris, Milan, San Francisco and in South America, etc.; apptd. Austrian State Kammeršangerin. *Address:* Schloss Gottlieben, Thurgau, Switzerland.

CASARDI, Alberico Aubrey; b. 3 Feb. 1903, Siena; s. of Ruggero Casardi and Margaret Haskard; m. Virginia Harris 1935; Diplomatic Service 1927-, New York, Lima, London, Berlin, Buenos Aires, UN, NATO, Brussels, Tokyo; joined Ministry of Foreign Affairs in Brindisi-Salerno 1943-44; Asst. to Sec.-Gen. 1944-48, and mem. Italian Del. to peace negotiations, Council of Foreign Ministers, London 1947, Peace Conf., Paris 1947, Council of Foreign Ministers, New York 1947, Buenos Aires 1948-51; Asst. to Sec.-Gen. of UN 1951-54, Observer and subsequently Amb. to UN 1955-56; Dep. Sec.-Gen. of NATO, Paris; Amb. to Belgium 1963-65; Amb. to Japan 1965-68; Italian Comm.-Gen. to Expo 70, 1968-70; special adviser to Banco Commerciale Italiana 1970-75. *Leisure interest:* painting. *Address:* Villa il Frosino, via delle Fontanelle 22, San Domenico di Fiesole, Florence, Italy. *Telephone:* (055) 59-111.

CASARÈS, Maria; French actress; b. 21 Nov. 1922, Spain; ed. Conservatoire nationale d'art dramatique; Début, Théâtre des Mathurins, Paris 1942; mem. Comédie Française 1952, Théâtre national populaire 1955; appearances have included roles in Six personnages en quête d'auteur, Le triomphe de l'amour, Macbeth, La ville, Phèdre, La danse de mort; film appearances include: Les enfants du paradis, Les dames du Bois de Boulogne, La chartreuse de Parme, Orphée, Ombre et lumière, Le testament d'Orphée; also appears on television; Officier des Arts et des Lettres. *Address:* 8 rue Asseline, 75014 Paris, France.

CASARIEGO, H.E. Cardinal Mario; Guatemalan ecclesiastic; b. 13 Feb. 1909, Figueras de Castropol, Spain; ordained 1936; Titular Bishop of Pudenziana 1958, of Perge 1963; Archbishop of Guatemala 1964-; cr. Cardinal 1969. *Address:* Arzobispado Apdo. 723, Guatemala City, Guatemala.

CASE, Clifford Philip, A.B., LL.B., HON.LL.D.; American lawyer and politician; b. 16 April 1904, Franklin Park, N.J.; s. of Clifford P. and Jeannette (Benedict) Case; m. Ruth M. Smith 1928; one s. two d.; ed. Rutgers and Columbia Univs.; Assoc. Simpson Thacher and Bartlett, New York 1928-39, mem. firm 1939-53; mem. Rahway (N.J.) Common Council 1938-42; mem. House of Assembly of N.J. 1943 and 1944; mem. 79th-83rd U.S. Congresses, resigned 1953; Pres. and Dir. of the Fund for the Repub. 1953-54; Republican Senator from N.J. 1954-79; mem. N.Y. Bar 1928-; Liberty Magazine Award ▬ outstanding mem. 82nd Congress; N.J. Society for Crippled Children and Adults (Board of Dirs.); mem. Advisory Board N.J. Chapter, Arthritis and Rheumatism Foundation, Rahway (N.J.); Red Cross (Trustee); mem. Council of Foreign Relations; Hon. Trustee, Roper Public Opinion Research Center; mem. Advisory Council Woodrow Wilson School, Princeton Univ.; Dir. Columbia Univ. Law School Alumni Assen.; mem. Bar Assen., City of New York, N.Y. County, N.Y. State, and American Bar Assens.; mem. American Judicature Soc.; mem. N.J. Historical Soc. (Hon. Trustee); Sponsor, Inst. for American Democracy; Hon. LL.D. from ten U.S. Colls. and Univs. *Leisure interests:* music, reading, gardening, nature walks, travel. *Address:* 191 West Milton Avenue, Rahway, N.J. 07065, U.S.A. (Home).

CASE, Everett Needham, M.A.; American educator and historian; b. 9 April 1901, Plainfield, N.J.; s. of James Herbert and Alice Needham Case; m. Josephine Young; three s. one d.; ed. Princeton Univ., Corpus Christi Coll., Cambridge, and Harvard Univ. Asst. in History, Harvard Univ. 1926-27; Asst. to Owen D. Young 1927-33; Exec. Sec. Central Banking and Industrial Cttee., Washington, D.C. 1932-33; Asst. Dean, Harvard Graduate School of Business Admin. 1939-42; Pres. Colgate Univ. 1942-62, Emer. 1962-; Consultant on Far Eastern Affairs to Sec. of State 1949; Chair. American Council on Educ. 1951-52; Pres. Alfred P. Sloan Foundation 1962-68; Dir. Fed. Reserve Bank of New York 1961-68, Chair. 1966-68; Dir. Nat. Educational Television 1954-61, 1962- (Chair. 1963-69); Trustee, Memorial Sloan-Kettering Cancer Center 1963-68, Sloan-Kettering Inst. for Cancer Research 1966-68, Millbrook School 1944-69 (Chair. 1960-68), Educational Broadcasting Corpn. 1965-68; mem. Council on Foreign Relations, UNA-U.S.A. China Panel 1966-68; Dir. Nat. Cttee. on U.S.-China Relations 1966-; several hon. degrees. *Leisure interests:* music, tennis. *Address:* Van Hornesville, Herkimer County, N.Y. 13475, U.S.A. *Telephone:* 315-858-0036.

CASEY, Albert V., M.B.A.; American airline executive; b. 28 Feb. 1920, Boston, Mass.; s. of John J. Casey and Norine Doyle; m. Eleanor Anne Welch 1945; one s. one d.; ed. Harvard Univ. and Graduate School of Business Admin. Asst. Vice-Pres. and Asst. Treas. Southern Pacific Co. 1953-61; Vice-Pres. and Treas. REA Express 1961-63; Vice-Pres. Finance, Times Mirror Co. 1963-64, Exec. Vice-Pres. and Dir. 1964-66, Pres. and mem. Exec. Cttee. 1966-74; Pres. and Chief Exec. American Airlines Inc. Feb. 1974-, Chair. April 1974-; Dir. Pacific American Income Shares Inc., Boys' Club of America; Dir. C.I.T. Financial Co.; Dir. Times Mirror Co.; mem. Board of Visitors of UCLA Graduate School of Management, Board of Councillors of Univ. of S. Calif. School of Business Admin., Visiting Cttee., Board of Overseers, Harvard Business School. *Leisure interests:* golf, tennis. *Address:* American Airlines, 633 Third Avenue, New York, N.Y. 10017, U.S.A.

CASEY, Michael Bernard, LL.B.; British civil servant and shipbuilding executive; b. 1 Sept. 1928, Barnes, Surrey; s. of Joseph Bernard and Dorothy (née Love) Casey; m. Sally Louise Smith 1963; two s. two d.; ed. Colwyn Bay Grammar School, London School of Econs. Hon. Soc. of Middle Temple, Manchester Business School; served in R.A.F. 1947-49; at Ministry of Agric., Fisheries and Food 1954-63, Office of the Minister for Science 1963-64, at Dept. of Econ. Affairs 1964-69, Asst. Sec. 1967; Asst. Sec., Ministry of Tech. 1969-70, Dept. of Trade and Industry 1971-72, Dept. of Prices and Consumer Protection 1973-75; Under-Sec. to Head of Shipbuilding Policy Div., Dept. of Industry 1975-77; Chief Exec. and Deputy Chair., British Shipbuilders 1977-. *Leisure interests:* golf, chess, bridge. *Address:* 243 Knightsbridge, London, SW7 1DG, England. *Telephone:* 01-589 3488.

CASEY, William Joseph, B.S., LL.B.; American lawyer, author and government official; b. 13 March 1913, New York; s. of William J. and Blanche (La Vigne) Casey; m. Sophia Kurz 1941; one d.; ed. Fordham Univ. and St. John's Law School. Chair. Bd. of Editors, Research Inst. of America 1938-40, Inst. for Business Planning 1954-70; partner, Hall, Casey, Dickler and Howley, New York 1957-71; mem. Gen. Advisory Cttee. on Arms Control and Disarmament 1969-71; mem. Presidential Task Force on Int. Devt. 1969-70; Pres. Chair. Long Island Assen. of Commerce and Industry 1968-71; Pres. Int. Rescue Cttee. 1970-71; Chair. Securities and Exchange Comm. Washington, D.C. 1971-72; Under-Sec. of State for Econ. Affairs 1972-73; Pres. Export-Import Bank 1973-; Trustee, Fordham Univ. 1966-71; mem. Advisory Cttee. Notre Dame Law School; E.T.O. Bronze Star. *Publications:* Tax Sheltered Investments 1952, Lawyers Desk Book 1965, Forms of Business Agreements 1966, Accounting Desk Book 1967, and other works. *Leisure interests:* sailing, skiing and reading. *Address:* Glenwood Road, Roslyn Harbour, Long Island N.Y. and 2501 Massachusetts Avenue, N.W., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 202-755-1130 (Home).

CASIMIR, Hendrik Brugt Gerhard, PH.D.; Netherlands physicist; b. 15 July 1909, The Hague; s. of Rommert Casimir and Teunsina Dina Borgman; m. Josina Maria Jonker 1933; one s. four d.; ed. Univs. of Leiden, Copenhagen, and at Zürich; various research positions, Leiden 1933-42; joined staff of Philips Research Labs., Eindhoven 1942, Dir. of Labs. 1946, mem. Bd. of Man. of Philips 1957-72, supervising Philips research activities in various countries; Pres. European Physical Soc. 1972-75; mem. Royal Acad. of Netherlands 1946-, Pres. 1973; Foreign Hon. mem. American Acad. of Arts and Sciences; mem. Royal Flemish Acad. of Science, Letters and Arts; Corresp. mem. Heidelberg Acad. of Science, Austrian Acad. of Sciences, Vienna; Foreign mem. Royal Soc., London 1970, Finnish Acad. of Technical Sciences, Helsinki, American Philosophical Soc., Philadelphia; Foreign Assoc. Nat. Acad. of Sciences, Washington, D.C.; Alfred Ewing Medal (London), Hon. D.Sc. Technical Univ. Copenhagen, Louvain, Technical Univ. Aachen, Edinburgh, Cranfield Inst. of Technology, Columbia Univ. *Publications:* many papers on theoretical physics, applied mathematics and low temperature physics. *Address:* c/o Philips' Gloeilampen Fabrieken, Eindhoven; De Zegge 7, Heeze, Netherlands. *Telephone:* 040-862233.

CASKEY, John L., PH.D.; American classical archaeologist; b. 7 Dec. 1908, Boston, Mass.; s. of Lacey D. and Elsie (Stern) Caskey; m. Miriam Ervin 1967; ed. Yale Univ. and Univ. of Cincinnati; teaching fellow, acting instructor, and mem. of staff of Univ. of Cincinnati Excavations at Troy 1932-38; Instructor, Asst. Prof. Univ. of Cincinnati 1939-48; U.S. Army 1942-46; Asst. Dir. American School of Classical Studies, Athens 1948-49, Dir. 1949-59, Vice-Chair. Man. Cttee. 1965-75, Visiting Prof. 1975-76; Prof. of Classical Archaeology, Univ. of Cincinnati 1959-79; and Head, Dept. of Classics, 1959-72, Fellow of Graduate School; Field Dir. Excavations at Lerna 1952-58, in Keos 1960-; mem. Inst. for Advanced Study 1960, 1965; mem. Archaeological Soc. of Athens 1956-, German Archaeological Inst. 1956-; mem. American Philosophical Soc. 1967–; Hon. mem. Soc. for Cycladic Studies (Athens); Legion of Merit (U.S.A.); Commdr. Order of the Phoenix (Greece); Hon. Citizen of Athens. *Publications:* Troy (co-editor and co-author) Vols. I-IV, Preliminary Reports on Excavations at Lerna 1954-59, The Early Helladic Period in the Argolid 1960, Preliminary Reports on Excavations in Keos 1960-75; contrib. to Cambridge Ancient History Vols. I, II, new edn. 1964, 1965. *Address:* Department of Classics, University of Cincinnati, Ohio 45221, U.S.A. *Telephone:* Cincinnati 475-6097.

CASSAVETES, John; American actor and film director; b. 9 Dec. 1929, New York; m. Gena Rowlands 1954; ed. Colgate Univ. and N.Y. Acad. of Dramatic Arts. Asst. Man. Broadway play Fifth Season; television appearances include Omnibus, Elgin Playhouse; film appearances include Taxi, The Night Holds Terror, Crime in the Streets, Edge of the City, Fever, The Dirty Dozen, Rosemary's Baby, Husbands; Dir. of Shadows 1960, Too Late Blues 1961, A Child is Waiting 1962, Faces 1968, Husbands 1970, Minnie and Moskowitz 1971, A Woman Under the Influence 1974, Capone 1975, Two Minute Warning 1976, Killing of a Chinese Bookie 1976, Opening Night 1977. *Address:* c/o Director of Public Relations, United Artists, 729 Seventh Avenue, New York City, N.Y. 10017, U.S.A.

CASSELS, Field-Marshal Sir (Archibald) James (Halkett), G.C.B., K.B.E., D.S.O.; British army officer; b. 28 Feb. 1907, Quetta, then in India; s. of late Gen. Sir Robert A. Cassels and the late Lady Florence E. Cassels; m. 1st Joyce Kirk 1935 (died 1978), one s.; m. 2nd Joyce Dickson 1978; ed. Rugby School and Royal Military Coll., Sandhurst; commissioned 1926; served Second World War, G.O.C. 51st Highland Div. 1945, G.O.C. 6th Airborne 1946; G.O.C. 1st British Commonwealth Div., Korea 1951-52; Commdr. 1st British Corps 1953-54; Dir.-Gen. of Mil. Training, War Office 1954-57; Dir. of Operations, Malaya 1957-59; G.O.C.-in-C. Eastern Command 1959; C.-in-C. British Army of the Rhine and Commdr. NATO Northern Army Group 1960-63; Adjutant-General to the Forces 1963-65; Chief of Gen. Staff 1965-68. *Leisure interests:* shooting and fishing. *Address:* Pitearn, Alves, by Forres, Moray, Scotland. *Telephone:* Alves 616.

CASSELS, James Macdonald, M.A., PH.D., F.R.S.; British physicist; b. 9 Sept. 1924; s. of Alastair Macdonald Cassels and Ada White Scott; m. Jane Helen Thera Lawrence; one s. one d.; ed. Rochester House School, Edinburgh, St. Lawrence Coll., Ramsgate, and Cambridge Univ.; Harwell Fellow and Principal Scientific Officer, A.E.R.E., Harwell 1949-53; Lecturer 1953, Senior Lecturer, Univ. of Liverpool, Prof. of Experimental Physics, Univ. of Liverpool 1956-59; Visiting Prof. Cornell Univ. 1959-60; Lyon Jones Prof. of Physics, Univ. of Liverpool Oct. 1960-; mem. Council Royal Soc. 1968-69, Fellow; Rutherford Medal, Inst. of Physics 1973. *Publications:* Basic Quantum Mechanics 1970, and articles in scientific journals on atomic, nuclear and elementary particle physics. *Leisure interest:* travelling hopefully, by air and otherwise. *Address:* 14 Dudlow Court, Dudlow Nook Road, Liverpool, L18 2EU, England. *Telephone:* 051 722 2594.

CASSELS, John William Scott, M.A., PH.D., F.R.S.; British mathematician; b. 11 July 1922, Durham City; s. of John William Cassels and Muriel Speakman Cassels (née Lobjoit); m. Constance Mabel Senior 1949; one s. one d.; ed. Neville's Cross Council School, Durham, George Heriot's School, Edinburgh, and Edinburgh and Cambridge Univs. Lecturer, Manchester Univ. 1949-50, Cambridge Univ. 1950-65; Reader in Arithmetic, Cambridge Univ. 1965-67; Sadleirian Prof. of Pure Mathematics, Cambridge Univ. 1967-; Fellow of Trinity Coll., Cambridge 1949-. *Publications:* An Introduction to Diophantine Approximations 1957, An Introduction to the Geometry of Numbers 1959. *Leisure interests:* The Higher Arithmetic, gardening. *Address:* Department of Pure Mathematics and Mathematical Statistics, 16 Mill Lane, Cambridge, CB2 1SB, (Office); 3 Luard Close, Cambridge, CB2 2PL, England (Home). *Telephone:* 65621 (Office); 41608 (Home).

CASSILLY, Richard; American (tenor) opera singer; b. 14 Dec. 1927, Washington, D.C.; s. of Robert Rogers Cassily and Vera F. Swart; m. Helen Koliopulos 1951; four s. three d.; ed. Peabody Conservatory of Music, Baltimore, Md.; with New York City Opera 1955-66, Chicago Lyric 1959-, San Francisco Opera 1966-; Deutsche Oper Berlin 1965-, Hamburgische Staatsoper 1966-, Covent Garden 1968-, La Scala, Milan 1970, Wiener Staatsoper 1970, Staatsoper München 1970, Paris Opera 1972, Metropolitan Opera 1973-; Kammersänger 1973; television performances of Otello, Peter Grimes, St. of Bleeker Street, Fidelio, Wozzeck and Die Meistersinger; recordings for D.G., C.B.S., E.M.I. *Address:* Hamburgische Staatsoper, 2 Hamburg 36, Damtorstrasse, Federal Republic of Germany.

CASSIRER, Henry R., PH.D.; American radio and television administrator; b. 2 Sept. 1911, Berlin; s. of Kurt and Eva (née Solmitz) Cassirer; divorced; one d.; ed. Odenwaldschule, Univs. of Frankfurt, Paris, Cologne, London School of Econs. and London Univ. Announcer/translator, B.B.C. European Service 1938-40; Foreign News Editor, Columbia Broadcasting System (C.B.S.), New York 1940-44; Television News Editor, C.B.S. 1944-49; freelance producer of TV documentary programmes 1949-52; teacher of TV Production and Public Affairs Programming, New School for Social Research, New York Univ. School of Radio Techniques; with UNESCO 1952-71, Dir. Use of Mass Media in Out-of-School Educ.; Adviser on Educational Radio/TV to Govt. of India 1957, Pakistan 1960-, Israel 1961-, Senegal 1963-, Brazil 1967-, Mali 1968-, Algeria 1969-, Singapore, United States (Alaska) 1970, Morocco 1974-, Ghana 1975, Fed. Repub. of Germany and Ford Foundation for West Africa projects 1976, Portugal for World Bank 1976; Int. Consultant communication and educ. 1971-, parent education 1979 (Int. Year of the Child); Visiting Prof. Ontario Inst. for Studies in Educ. 1974. *Publications:* Television, a World Survey 1954, Television Teaching Today 1960, Media in Non-formal Education UNESCO 1978; films: Man of our Age—The Sculpture of Jo Davidson 19, Buma-African Sculpture Speaks 1952, Television Comes to the Land 1958, Bildung und Kommunikation 1974. *Leisure interest:* stereo, photography. *Address:* Les Moulins, 74290 Menthon St. Bernard, France. *Telephone:* (50) 44 88 53.

CASSOLA, Carlo; Italian writer; b. 17 March 1917. Strega Prize 1960. *Publications:* La Visita (short stories) 1942, Fausto e Anna (novel) 1952, Il Taglio del Bosco (short stories) 1959, La Ragazza di Bube (novel) 1960, Un Cuore Arido (novel) 1961, Il Cacciatore (novel) 1964, Tempi Memorabili (novel) 1966, Ferrovia Locale (novel) 1968, Monte Mario, Giselle 1974. *Address:* Via Michelangelo 12, Grosseto, Italy.

CASSON, Sir Hugh Maxwell, Kt., K.C.V.O., M.A., P.R.A., F.R.I.B.A., R.D.I., HON. DES. R.C.A.; British architect; b. 23 May 1910, ed. Eastbourne Coll., St. John's Coll., Cambridge, and Bartlett School of Architecture, Univ. Coll., London; private practice as architect 1935-; Camouflage Officer in Air Ministry 1940-44; Technical Officer Ministry of Town and Country Planning 1944-46; Dir. of Architecture, Festival of Britain 1951; mem. MARS Group 1945-; Prof. of Environmental Design, Royal Coll. of Art 1953-75; Pres. Royal Acad. of Arts 1976-; mem. Royal Danish Acad. 1954, Royal Fine Art Comm. 1960, British Council 1977-; Hon. LL.D. (Birmingham) 1977, (Southampton) 1977. *Publications:* Bombed Churches ■■ War Memorials 1944, Houses: Permanence and Prefabrication (with Anthony Chitty) 1945, Homes by the Million 1945, An Introduction to Victorian Architecture 1948, Inscape: The Design of Interiors 1968, Nanny Says (with Joyce Grenfell) 1972. *Address:* 35 Victoria Road, London, W8 5RH, England. *Telephone:* 01-937 0842.

CASSOU, Jean L. ÉS. L.; French writer; b. 9 July 1897; ed. Univ. de Paris à la Sorbonne. Sec., Mercure de France 1920, later Editor at Ministry of Public Instruction; on personal staff of M. Jean Zay (Front Populaire) Minister of Nat. Educ. and Fine Arts 1936; Asst. Keeper, Musée du Luxembourg 1938; forced to retire, then imprisoned by Vichy régime 1940, later fought in resistance and was seriously wounded 1944; Head Keeper, Musée Nat. d'Art Moderne 1945-65; now Dir. of Studies, Ecole Pratique des Hautes Etudes; mem. Acad. Royale de langue et littérature françaises de Belgique; Compagnon de la Libération, Commdr. Légion d'honneur, Croix de guerre 1939-45. *Publications:* Novels include: Les harmonies viennoises 1925, Les massacres de Paris 1936, Le voisinage des cavernes 1971; Essays include: Grandeur et infamie de Tolstoi 1932, Parti pris 1953; Poetry includes: Trente-trois sonnets composés au secret 1944; Art criticism includes: Picasso 1939, Ingres 1947, Situation de l'art moderne 1951, La création des mondes 1971. *Address:* 4 rue du Cardinal-Lemoine, 75005 Paris, France.

CASTAÑEDA, Jorge; Mexican diplomatist; b. 1 Oct. 1921, México, D.F.; s. of Jorge Castañeda and Carmen Alvarez de la Rosa; m. Neoma G. de Castañeda 1952; one s. one d.; ed. Univ. Nacional Autónoma de México; joined Mexican Foreign Service 1950; Legal Counsel, Ministry of Foreign Affairs 1955-58, Dir.-Gen. for Int. Orgs. 1959-60; Alt. Rep. to UN 1961-62; Amb. to Egypt 1962-65; Principal Dir., Ministry of Foreign Affairs 1965-; Under-Sec. of State 1976; Perm. Rep. to Int. Orgs. in Geneva; Prof. of Int. Public Law, Escuela Libre de Derecho 1958; Prof. of Int. Public Law, Univ. Nacional Autónoma de México 1959-60; mem. UN Int. Law Comm. 1967-; del. to numerous int. confs. including many sessions of UN Gen. Assembly; mem. Inst. of Int. Law, Int. Law Assen., Hispano-Luso-American Inst. of Int. Law; now Amb. at Large. *Publications:* México y el Orden Internacional 1956, Mexico and the United Nations 1958, Valor Jurídico de las Resoluciones de las Naciones Unidas 1967 (English version 1969), La No Proliferación de las Armas Nucleares en el Orden Universal 1969, and articles in various legal journals. *Address:* Fuego 990, México 20, D.F., Mexico. *Telephone:* 568-16-57.

CASTAÑÓN DE MENA, Juan, D.ARCH.; Spanish army officer; ed. Escuela Técnica Superior de Arquitectura, Madrid, Acad. de Infantería and Escuela Superior de Guerra. Capt. Gen. Staff 1931; active service Corunna, 8th military div. and Gallegas Columns campaign 1936, later C.-in-C. Gen. Staff 82nd Div. at Teruel, Alfambra, Levante, Ebro, Cataluña and liberation of Madrid, promoted Lt. Col.; Prof., Gen. Staff School; Brig.-Gen. 1959; Tactics Prof. Senior Army School 1959; A.D.C. to Gen. Franco 1951-75; Mil. Gov., Madrid 1962; C.-in-C. 11th Mechanized Div. 1964; Lt.-Gen. 1965; Chief of Mil. House of Gen. Franco 1965; Minister of the Army 1969-73; several decorations, incl. Gran Cruz de Isabel la Católica, Gran Cruz de Carlos III, Commdr. Legion of Merit, U.S.A. *Address:* Lopez de Hoyez 15, Madrid 6 (Office); Lagasca 77-6°, Madrid 6, Spain (Home).

CASTILLERO REYES, Ernesto de Jesús; Panamanian educationist and historian; b. 29 June 1889, Ocu, Herrera Province; s. of Mateo Castillero and Manuela Reyes de Castillero; m. Librada Pimentel de Castillero 1914; three s. three d.; ed. Inst. Nacional de Panamá. Primary School Teacher 1913-17; Provincial Insp. of Public Instruction 1917-22; Sec.-Gen. Inspectorate of Educ. 1922-27; Sec. Inst. Nacional de Panamá 1927-33; Prof. of History; Insp.-Gen. of Educ. 1936-40; Dir. Nat Library of Panama 1942-45; special Amb. for Repub. of Honduras 1957; Pres. Panama Acad. of History 1958-61; Hon. Pres. Bolivarian Soc.; corresp. mem. Spanish and ten Latin American Acads. of History; Dir. Panamanian Inst. of Hispanic Culture 1953. *Publications include:* Documentos históricos sobre la independencia del istmo de Panamá 1930, La causa inmediata de la emancipación de Panamá, Historia de los orígenes, la formación y el rechazo por el Senado colombiano del Tratado Herrán Hay 1933, El Profeta de Panamá y su gran traición 1936, Galería de Presidentes de Panamá 1936, 1953, Panamá: Breve historia de la República 1939, Historia de la Comunicación Interoceánica y de su influencia en el desarrollo de la entidad nacional panameña 1943, Historia de los Simbolos de la patria panameña 1947, Historia de Panamá 1955, Episodios de la independencia de

Panamá 1958, Intimidades del Congreso de Panamá de 1826 1961, La Isla que se transformó en Ciudad 1962, El Canal de Panamá 1964, Breve Historia de la Iglesia panameña 1965, Lecciones de Historia Patria 1967, Chiriquí: Ensayo de Monografía de la Provincia de Chiriquí 1968, Historia de los Protocolos del Istmo de 1826 1970, Historia de la Academia Panameña de la Historia' 1971, La Contribución de Panamá a la independencia del Perú 1974, Panamá y Colombia: Historia de su reconciliación 1975. *Address:* Calle 31E, No. 4-23, P.O. Box 1563, Panama City, Panama. *Telephone:* 250668.

CASTILLO MORALES, Carlos Manuel, PH.D., M.SC., D.ECON.; Costa Rican economist; b. 19 Dec. 1928; ed. Univ. de Costa Rica, and Univs. of Tennessee and Wisconsin. Head of Agricultural Section, UN Econ. Cttee. for Latin America (ECLA) 1956-59, in Mexican Office of ECLA ■ Sec. of Central Isthmus Econ. Cooperation Cttee. 1959-61, Asst. Dir. later Dir. of Office 1961-63, 1963-66; Sec.-Gen. Perm Secretariat of Gen. Treaty for Central American Econ. Integration 1966-70; Minister of Econs., Industry and Commerce 1971-72; Vice-Pres., Minister of the Presidency 1974-77. *Publications:* Análisis Exploratorio del Sistema de Tenencia de la Tierra en Costa Rica 1953, La Reforma Agraria y sus Efectos sobre la Tasa de Acumulación de Capital en la Economía 1953, El Régimen Agrario y el Funcionamiento de Mercado de los Factores 1955, La Economía Agrícola en la Región del Bajío 1956, Aspectos Políticos y Administrativos del Desarrollo Económico 1959, Growth and Integration in Central America 1966. *Address:* c/o Oficina del Vice-Presidente, San José, Costa Rica.

CASTILLO YURRITA, Alberto del, DR.HIST.; Spanish university professor; b. 3 July 1899, Oñate (Guipúzcoa); s. of Gonzalo del Castillo and Jesusa de Yurrita; m. Marie Louise Jaquolot 1924; one s.; ed. Univs. of Barcelona, Paris, London, Berlin, Munich and Bologna. Prof. Medieval History, Univ. of Barcelona 1931-71; Art Critic 1939; Cultural Attaché, Spanish Embassy, Paris 1944-45; Curator, Archaeological Museum, Barcelona 1931-65; Dir. Spanish Inst. of Mediterranean Studies 1942; Dir. Romantic Prov. Museum 1949; Vice-Editor Diario de Barcelona 1953-; Vice-Pres. Spanish Assn. of Art Critics 1962; Spanish Delegate at European Council for Modern Art 1967; Hon. Archaeological Insp., Barcelona prov. *Publications include:* La Cultura del Vaso Campaniforma 1929, Historia General (3 vols.) 1941, Barcelona a través de los tiempos 1942, De la Puerta del Angel ■ la Plaza de Lesseps 1943, El Neolítico y el Eneolítico de la Península Ibérica 1943, Cronología del Vaso Campaniforma en Europa 1944; José María Sert: Su vida y su obra 1946, Estética del Arte Paleolítico 1953, La Maquinista Terrestre y Marítima, personaje histórico 1955, La Barcelona de Menéndez y Pelayo (1871-1873) 1956, Ramón Casas y su época 1958, Lasar Segall 1958, (with M. Riu) Historia del Transporte Colectivo en Barcelona (1872-1959) 1959, Narciso Monturiol, inventor del Ictineo (1819-1885) 1963, Historia de la Asociación de Ingenieros Industriales de Barcelona (1863-1963) 1963, El manso medieval A de Vilosiu 1965, Guía del Museo Romántico Provincial 1968, Guía Abreviada del Museo Romántico Provincial 1968, Excavaciones altomedievales en las provincias de Soria, Logroño y Burgos 1972. *Address:* Mallorca 305, Barcelona 9, Spain.

CASTLE, Rt. Hon. Barbara Anne, P.C., B.A.,; British politician; b. 6 Oct. 1911, Chesterfield; d. of F. Betts and Annie Rebecca Farrand; m. Edward Castle (now Lord Castle of Islington) 1944; ed. Bradford Girls' Grammar School, St. Hugh's Coll., Oxford Univ. Admin. Officer, Ministry of Food 1941-44; Corresp. for Daily Mirror 1944-45; M.P. 1945-79; mem. St. Pancras Borough Council, London 1937-45, Metropolitan Water Board 1940-45, Nat. Exec. Cttee. of Labour Party 1950-; Chair. of Labour Party 1958-59; Minister of Overseas Devt. 1964-65; Transport 1965-68; First Sec. of State and Sec. of State for Employment and Productivity 1968-70, for Social Services 1974-76; mem. European Parl. for Greater Manchester North 1979-. *Publication:* The Castle Diaries 1974-76 1979. *Leisure interests:* walking, gardening, reading. *Address:* c/o House of Commons, London, S.W.1, England

CASTLE, Norman Henry; British business executive; b. 1 Sept. 1913, London; s. of Hubert William Castle, M.B.E.; and Elizabeth May Castle; m. Ivy Olive Watson 1939; one d.; ed. Norfolk House and Ludlow Grammar School; with Hafnia Konserves, Copenhagen 1931; London: C. & E. Morton Ltd. 1933, Vacuum Packed Produce Ltd. 1938, Vacuum Foods Ltd. 1939; Gen. Man. A. L. Maizel Ltd. 1945; Times Foods Ltd. 1947; Dir. Vacuum Foods Ltd. 1951; Man. Dir. Haigh Castle & Co. Ltd. 1956, Hafnia Ham Co. Ltd. 1956; Dir. S. & W. Berisford Ltd. 1967, Man. Dir. 1970, Chair. and Joint Man. 1971-78; Chair. Ashbourne Investments Ltd. 1976, Wace Group Ltd. 1978; Vice-Pres. British Importers Confed. 1975. *Leisure interests:* travel, sailing. *Address:* The Penthouse, 39 Courcels, Black Rock, Brighton, Sussex; 22 Highgate Heights, 77 Shepherds Hill, Highgate, London, N.6, England. *Telephone:* 0273-681039 (Brighton); 01-340 1035 (London).

CASTLE, William Bosworth, M.D., D.SC., M.S.; American physician and educator; b. 21 Oct. 1897, Cambridge, Mass.; s. of William Ernest and Clara (Sears) Bosworth Castle; m. Louise Müller 1933; one s. one d.; ed. Harvard. Prof. of Medicine, Harvard Univ. 1937-57; George R. Minot Prof. of Medicine 1957-63; Dir. Thorndike Lab., Boston City Hosp. 1948-63, Hon. Dir. 1963-68; Francis W. Peabody Faculty Prof. of Medicine, Harvard Univ. 1963-68, Emeritus 1968-; Distinguished Physician, U.S. Veterans Admin. 1968-72; Senior Physician 1972-73, Consultant, Veterans Admin. Hospital, West Roxbury, Mass 1973-79, Hon. D.Sc. (Harvard, Pa., Marquette, Mount Sinai), Hon. LL.D. (Jefferson), Hon. S.M. (Yale), Hon. M.D. (Utrecht), Hon. S.D. (Chicago), Hon. L.H.D. (Boston Coll.); John Phillips Memorial Prize 1932; Proctor Award, Philadelphia Coll. of Pharmacy and Science 1935, Walter Reed Medal, American Soc. of Tropical Medicine 1939, and Mead, Johnson and Co. Award 1950, for discovery of gastric intrinsic factor and its relation to vitamin B12 deficiency in pernicious anaemia, etc, Kober Medal of the Assn. of American Physicians 1962, John M. Russell Award of the Markle Scholars 1964, Oscar B. Hunter Memorial Award of the American Therapeutic Soc., Joseph Goldberger Award for Clincal Nutrition, Sheen Award of American Medical Assn. 1973, Distinguished Teacher Award of American Coll. of Physicans 1978. *Leisure interests:* small boat sailing, home repairs. *Address:* 22 Irving Street, Brookline, Mass. 02146, U.S.A. *Telephone:* 617-566-2676.

CASTRIES, René, Duc de; French historian and viticulturist; b. 6 Aug. 1908, La Bastide d'Engras; m. Mlle de Cassagne 1934; one s. two d.; ed. Collège Saint-Jean, Fribourg, Ecole Saint-Geneviève, Versailles and Ecole libre des Sciences politiques, Paris. Mayor of Castries 1941-51; Vice-Pres. Soc. des Gens de Lettres 1964; Pres. Soc. d'Histoire diplomatique; Pres. des Cincinnati de France; mem. Acad. Française 1972; Officier de la Légion d'honneur, Chevalier des Arts et des Lettres, Chevalier de Cincinnatus; numerous literary awards including Prix Balzac, Prix des Ambassadeurs 1978. *Publications include:* Le testament de la Monarchie (5 vols.) 1958-70, Mirabeau ou l'échec du destin 1960, Maurice de Saxe 1963, Henri IV, roi de coeur, roi de France 1970, Histoire de France des origines à 1970, Figaro ou la vie de Beaumarchais 1972, Lafayette, Pionnier de la liberté 1974, Chateaubriand ou la puissance du songe 1976, Papiers de famille 1977, La vieille dame du quai Conti 1978; articles in newspapers and journals, etc. *Address:* 45 avenue Montaigne, 75008 Paris; Château de Castries, 34160, France. *Telephone:* 225-77-41 (Paris); (67) 70-11-83 (Castries).

CASTRO, Raul H., A.B., J.D.; American lawyer, politician and diplomatist; b. 12 June 1916, Cananea, Sonora, Mexico; s. of Francisco D. Castro and Rosario Acosta de Castro; m. Patricia M. Norrish 1951; two d.; ed. Arizona State Coll., Flagstaff, and Univ. of Arizona, Tucson; fmr. owner and operator Castro Pony Farm, Tucson, Ariz.; in U.S. Foreign Service in Mexico 1941-46; Spanish Instructor, Univ. of Ariz. 1946-49; Senior Partner law firm Castro and Wolfe 1949-52; Deputy District Attorney, Pima County, Ariz. 1952-54, District Attorney 1954-58; Judge of Superior Court, Ariz. 1959-61, Presiding Judge, Juvenile Court 1963-64; Amb. to El Salvador 1964-68, to Bolivia 1968-70, to Argentina 1977-; private law practice, Tucson 1969-75; Gov. of Arizona 1975-77; Hon. S.J.D., N. Arizona Univ.), LL.D. (Arizona State Univ.); Dr. h.c. (Universidad Autonóma de Guadalajara, Mexico). *Leisure interests:* horseback-riding, hiking, reading. *Address:* American Embassy, Sarmiento 663, Buenos Aires, Argentina.

CASTRO JIJÓN, Rear-Admiral Ramón; Ecuadorean naval officer and politician; b. 1915; studied naval engineering in U.S.A.; fmr. Naval Attaché, London; C.-in-C. of Navy, Ecuador; Pres. Military Junta 1963-66; in exile 1966-. *Address:* Rio de Janeiro, RJ, Brazil.

CASTRO REAL, Juan Manuel; Spanish lawyer and diplomatist; b. 9 Feb. 1915, La Coruña, Cee; ed. Univs. of Madrid and Montreal. Asst. Prof. of Public Int. Law, Univ. of Madrid 1935, then Prof.; Prof. of Int. Law, Univs. of Valladolid and Salamanca; Sec. Int. Legal Affairs Office, Ministry of Foreign Affairs 1946; Sec. Consulate-Gen., Montreal 1948; Sec. for Cultural Affairs, Bonn 1950; mem. Int. Legal Affairs Office 1953; Asst. Dir. of UN Affairs 1956, Dir. 1958, 1961; served in The Hague 1960, Minister Plenipotentiary 1962; Amb. to Denmark 1971-77; del. to various int. confs. and UN Gen. Assembly. *Publications:* La Represalias 1939, La personalité internationale du Canada 1950, and various articles. *Address:* c/o Ministerio de Asuntos Exteriores, Madrid, Spain.

CASTRO RUZ, Fidel, D.IUR.; Cuban politician; b. 13 Aug. 1927; ed. Jesuit schools in Santiago and Havana, Univ. de la Habana; law practice in Havana; began active opposition to Batista regime by attack on Moncada barracks at Santiago 26th July 1953; sentenced

to 15 years' imprisonment 1953; amnestied 1956; went into exile in Mexico and began to organize armed rebellion; landed in Oriente Province with small force Dec. 1956; carried on armed struggle against Batista regime until flight of Batista Jan. 1959; Prime Minister of Cuba 1959-76; Head of State and Pres. of Council of State 1976-, Pres. of Council of Ministers 1976-; Chair. Agrarian Reform Inst. 1965-; First Sec. Partido Unido de la Revolución Socialista (PURS) 1963-65, Partido Comunista 1965- (mem. Political Bureau 1976-); Lenin Peace Prize 1961; Hero of the Soviet Union 1963; Order of Lenin 1972, Order of the October Revolution 1976, Somali Order (1st Class) 1977, Order of Jamaica 1977. *Publications:* Ten Years of Revolution 1964, History Will Absolve Me 1968. *Address:* Palacio del Gobierno, Havana, Cuba.

CASTRO RUZ, Gen. Raúl; Cuban politician; b. 3 June 1931; ed. Jesuit schools. Younger brother of Fidel Castro Ruz (*q.v.*); sentenced with him to 15 years' imprisonment for insurrection 1953; amnestied 1954; assisted his brother's movement in Mexico, and in Cuba after Dec. 1956; Chief of the Armed Forces Feb. 1959; Deputy Prime Minister 1960-72; Minister of the Armed Forces 1960-; First Deputy Prime Minister 1972-76; First Vice-Pres. Council of State 1976-, First Vice-Pres. Council of Ministers 1976-; Medal for Strengthening of Brotherhood in Arms 1977. *Address:* Oficina del Primer Vice-Presidente, Havana, Cuba.

CATALANO DI MELILLI, Felice; Italian diplomatist; b. 24 Jan. 1914; s. of Antonio and Verga Caterina; m. Rosana Muscatello; two s.; ed. Univ. degli Studi, Florence; joined Diplomatic Service 1938; Vice-Consul, Jerusalem 1939, Leipzig 1941-43; Sec., Washington 1945-52; at Ministry of Foreign Affairs 1952-55, 1958-59, 1961-65; Counsellor, Athens 1955-58; Minister, Bonn 1959-61; Acting Sec.-Gen. Ministry of Foreign Affairs 1965-66; Amb. to the United Arab Repub. 1966-69; Diplomatic Adviser to Prime Minister 1969-70; Perm. Rep. to N. Atlantic Council 1970-; numerous honours including Gran Croce Ordine al Merito della Repubblica Italiana, Grosses Deutsches Verdienstkreuz. *Address:* North Atlantic Council, NATO, Brussels 1110, Belgium.

CATCHESIDE, David Guthrie, D.SC., M.A., F.R.S., F.A.A.; British professor of genetics; b. 31 May 1907, London; s. of David Guthrie and Florence S. Catcheside; m. Kathleen M. Whiteman 1931; one s. one d.; ed. Strand School and King's Coll., Univ. of London. Asst. to Prof. of Botany, Glasgow Univ. 1928-30; Asst. Lecturer King's Coll., London 1931-33, Lecturer 1933-37; Rockefeller Int. Fellow, Calif. Inst. of Technology 1936-37; Lecturer in Botany, Cambridge Univ. 1937-50, Reader in Cytogenics 1950-51; Fellow and Lecturer, Trinity Coll., Cambridge 1944-51; Prof. of Genetics, Adelaide Univ. 1952-55; Prof. of Microbiology, Birmingham Univ. 1956-64; Research Assoc. Carnegie Inst. of Washington 1958; Visiting Prof. Calif. Inst. of Technology 1961; Prof. of Genetics, John Curtin School of Medical Research, Australian Nat. Univ. 1964-67; Dir. and Prof. of Genetics, Research School of Biological Sciences, ANU 1967-72; Visiting Fellow 1973-75; Foreign Assoc. U.S. Nat. Acad. of Sciences 1974. *Publications:* The Genetics of Micro-organisms 1951, Genetics of Recombination 1977. *Leisure interests:* natural history, walking. *Address:* 16 Rodger Avenue, Leabrook, South Australia 5068, Australia. *Telephone:* 332-3915.

CATER, Douglass; American writer, editor and government official; b. 24 Aug. 1923, Montgomery, Ala.; s. of Silas D. Cater, Sr. and Nancy Chesnutt Cater; m. Libby Anderson 1950; two s. two d.; ed. Philip Exeter Acad., Harvard Univ.; Washington Editor The Reporter (magazine) 1950-63, Nat. Affairs Editor 1963-64; Special Asst. to Pres. of U.S. 1964-68; writer and consultant 1968-; Vice-Chair. The Observer, London 1976-; Pres. Observer Int. Inc. 1976–; mem. Bd. of Editors, Encylopaedia Britannica 1978-; Special Asst. to Sec. of Army 1951; Consultant to Dir. of Mutual Security Agency 1952; Dir. Aspen Inst. Programme on Communications and Soc. 1970-76, Sr. Fellow Aspen Inst. for Humanistic Studies 1976-; Visiting Prof. Princeton Univ., Wesleyan Univ., Univ. of Calif., Stanford Univ.; Guggenheim Fellow 1955, Eisenhower Exchange Fellow 1957, George Polk Award 1961, New York Newspaper Guild, Page One Award 1961. *Publications:* Ethics in a Business Society (with Marquis Childs) 1953, The Fourth Branch of Government 1959, Power in Washington 1963, Dana: The Irrelevant Man 1970, TV Violence and the Child: The Evolution and Fate of the Surgeon General's Report (with Stephen P. Strickland) 1975. *Address:* Aspen Inst. for Humanistic Studies, 2010 Massachusetts Avenue, N.W., Washington, D.C. 20036, U.S.A. *Telephone:* 202/466-6410.

CATER, John Robert (Robin), M.A.; British businessman; b. 25 April 1919, Edinburgh; s. of the late Sir John Cater and of Lady Cater; m. Isobel Calder Ritchie 1945; one d.; ed. George Watson's Coll., Edinburgh, Cambridge Univ.; trainee, W. P. Lowrie & Co. Ltd. 1946; James Buchanan & Co. Ltd. 1949, Dir. 1950, Production Dir. 1959; Production Asst. The Distillers Co. Ltd. Edinburgh 1959, Dir. 1967; Man. Dir. and Vice-Chair. John Haig & Co. Ltd. 1965-70; Non-Exec. Dir. United Glass 1969, Chair. 1972; Chair. The Distillers Co. Ltd. Aug. 1976-. *Leisure interests:* music, theatre, fishing. *Address:* The Distillers Company Limited, Distillers House, 20 St. James's Square, London, SW1Y 4JF, England. *Telephone:* 01-930 1040.

CATHERWOOD, Sir (Henry) Frederick Ross, Kt.; British industrialist and public official; b. 30 Jan. 1925, Co. Londonderry, N. Ireland; s. of Stuart and Jean Catherwood; m. Elizabeth Lloyd-Jones 1954; two s. one d.; ed. Shrewsbury and Clare Coll., Cambridge. Chartered Accountant 1951; Sec. Laws Stores Ltd., Gateshead 1952-54; Sec. and Controller, Richard Costain Ltd. 1954-55, Chief Exec. 1955-60; Asst. Man. Dir. British Aluminium Co. Ltd. 1960-62, Man. Dir. 1962-64; Chief Industrial Adviser, Dept. of Econ. Affairs 1964-66; mem. Nat. Econ. Devt. Council (N.E.D.C.) 1964-71, Dir. Gen. 1966-71; mem. British Nat. Export Council 1965-70; Vice-Chair. British Inst. of Man. 1972-74, Chair. 1974-76; Vice-Pres. 1976-; Chair. British Overseas Trade Board 1975-79; Chair. Mallinson-Denny Ltd. Dec. 1976- (Dir. 1974), Goodyear Tyre and Rubber Co. (GB) Ltd. 1975-; Dir. John Laing Ltd. (Group Man. Dir. and Chief Exec. 1972-74) 1975-; Pres. Machine Tool Industry Research Assn. 1977-, Chair. British Inst. of Man.'s Econ. and Social Cttee. 1978; Pres. Fellowship of Ind. Churches 1977-78, Assn. Colls. of Further and Higher Educ. 1979-; mem. European Parl. for Cambridgeshire, 1979-. *Publications:* The Christian in Industrial Society 1964, The Christian Citizen 1969, A Better Way 1975. *Address:* 25 Woodville Gardens, London, W.5, England. *Telephone:* 01-997 4117.

CATLEDGE, Turner, B.S.; American newspaperman; b. 17 March 1901, Ackerman, Miss.; s. of Lee Johnson Catledge and Willie Anna (Turner) Catledge; m. 2nd Abby Ray Izard 1958; two d. (from 1st marriage); ed. Mississippi State Coll.; employed Neshoba (Miss.) Democrat 1921; Res. Editor Tunica (Miss.) Times 1922-23; Man. Editor Tupelo (Miss.) Journal 1923; reporter Memphis (Tenn.) Commercial Appeal 1923-27, Baltimore (Md.) Sun 1927-29; City Staff New York Times 1929, corresp. Washington Bureau 1930-36, Chief Washington News Corresp. 1936-41; Chief Corresp. New York Times 1943-44, Exec. Man. Editor 1950-51, Man. Editor 1951-64, Exec. Editor 1964-68, Vice-Pres. 1968-70, Dir. 1968-73; Hon. D.Litt. (Washington and Lee), L.H.D. (South-Western); Hon. D.Iur. (Kentucky Univ.) 1957, Hon. LL.D. (Tulane). *Publications:* The 168 Days (with Joseph W. Alsop, Jr.) 1937, My Life and the Times 1971. *Address:* 229 West 43rd Street, New York, N.Y. (Office); 2316 Prytania Street, New Orleans, La., U.S.A. (Home).

CATON-THOMPSON, Gertrude, F.B.A.; British archaeologist; b. 1888; ed. Miss Hawtrey's, Eastbourne, Paris and Newnham Coll. Cambridge (research); employed Ministry of Shipping 1915-19; Paris Peace Conf. 1919; Student British School of Archaeology in Egypt 1921-26; excavated at Abydos and Oxyrhynchos 1921-22, Malta 1921, 1924, Qau and Badari 1923-25, Northern Faiyum 1924-26, 1927-28, Zimbabwe and other Rhodesian sites 1928-29, Kharga Oasis 1930-33, Hadhramaut (Southern Arabia) 1937-38; Pres. Prehistoric Soc. 1939-46; fmr. Vice-Pres. Royal Anthropological Inst., fmr. Gov. Bedford Coll., Univ. of London, and School of Oriental and African Studies; mem. Governing Council, British School of East Africa; Fellow Newnham Coll., Cambridge 1934-51; Cuthbert Peake Award, Royal Geographical Soc. 1932, Rivers Medal, Royal Anthropological Inst. 1934, Huxley Medal 1946, Burton Medal, Royal Asiatic Soc. 1954; Hon. Litt.D. (Cambridge). *Publications:* The Badarian Civilisation (with Guy Brunton) 1928, The Zimbabwe Culture 1931, The Desert Fayum 1935, The Tombs and Moon Temple of Hureidha 1944, Kharga Oasis in Prehistory 1952. *Address:* Court Farm, Broadway, Worcs., England.

CATTO, 2nd Baron, of Cairncatto; **Stephen Gordon Catto;** British banker and company director; b. 14 Jan. 1923, s. of 1st Baron Catto and Gladys Forbes Gordon; m. 1st Josephine Innes Packer 1948, 2nd Margaret Forrest 1966; three s. three d.; ed. Eton Coll. and Cambridge Univ. Air Force service 1943-47; Chair. Morgan Grenfell & Co. Ltd., Australian Mutual Provident Soc. (U.K. Branch), Yule Catto & Co. Ltd., European Property Investment Co. N.V.; Dir. The General Electric Co. Ltd., Hongkong and Shanghai Banking Corpn. Ltd. (London Cttee.) and other cos.; mem. Advisory Council, Export Credits Guarantee Dept. 1959-65; Chair. R.A.F. Benevolent Fund; part-time mem. London Transport Board 1962-68. *Leisure interests:* gardening, music. *Address:* Morgan Grenfell and Co. Ltd., 23 Great Winchester Street, London, E.C.2, England. *Telephone:* 01-588 4545.

CATTO, Henry Edward, Jr.; American diplomatist; b. 6 Dec. 1930, Dallas, Texas; s. of Henry Edward Catto Sr. and Maurine

(née Halsell); m. Jessica Oveta Hobby 1958; two s. two d.; ed. Texas Mil. Inst. and Williams Coll. Partner, Catto & Catto, insurance brokers 1952-69; Deputy Rep. to OAS, mem. OAS Council for Educ., Science and Culture 1969-71; Amb. to El Salvador 1971-73; Chief of Protocol at White House and Dept. of State 1974-76; Amb. to UN Office at Geneva 1976-77; business consultant, Washington 1977-. *Leisure interests:* tennis, skiing, photography. *Address:* 7718 Georgetown Pike, McLean, Va. 22101, U.S.A. (Home). *Telephone:* 022 32-70-20 (Office); 022 36-26-26 (Residence); (703) 821-3249 (Home).

CAU, Jean, LIC. PHIL.; French writer and journalist; b. 8 July 1925; ed. Lycée Carcassonne, Lycée Louis-le-Grand, and Univ. of Paris; fmr. Sec. to Jean-Paul Sartre; Ed. Les Temps Modernes 1949-54; travelled extensively in U.S.A., Brazil, Greece, Italy, Spain, North Africa; journalist on L'Express, Le Figaro littéraire, Candide, France-Observateur, Paris-Match etc., Paris; Prix Goncourt 1961; Chevalier, Légion d'honneur. *Publications: novels:* Le coup de barre, Les paroissiens, La pitié de Dieu, Les enfants 1975; stories: Mon village; chronicle: Les oreilles et la queue, L'incendie de Rome 1964; *plays:* Les parachutistes, Le maître du monde, Dans un nuage de pouissière 1967, Les yeux crevés 1968, Pauvre France 1972; translation of Who's Afraid of Virginia Woolf, Numance; Lettre ouverte aux têtes de chiens de l'Occident 1967, L'agonie de la vieille 1969, Tropicanas 1970, Le temps des esclaves, Les entrailles du taureau 1971, Traité de morale I: les écuries de l'occident 1973, II: la grande prostituée 1974, Toros 1973, Pourquoi la France 1975, Les otages 1976, Le chevalier, la mort et le diable, une nuit à Saint-Germain des Prés; scripts of films La curée 1966, Don Juan 1973 1973. *Address:* 13 rue de Seine, 75006 Paris, France.

CAUSSE, Jean-Pierre; French scientist; b. 4 Oct. 1926, Montpellier; m. Françoise Villard; three d.; ed. Lycée de Montpellier and Ecole Normale Supérieure. Observatoire de Paris 1952-55; Physicist, Schlumberger Ltd. 1955-62; Dir. of Satellites Div., Centre Nat. d'Etudes Spatiales 1962-66, Dir. Brétigny Space Centre 1966-69; Deputy Sec.-Gen., European Launcher Devt. Org. 1969-73; Head Spacelab Programme, European Space Research Org. 1973-74; Scientific Dir. Cie. de Saint-Gobain-Pont-à-Mousson 1974-78, Deputy Dir.-Gen. 1978-; Chevalier Légion d'honneur. *Address:* 54 Avenue Hoche, 75008 Paris, France. *Telephone:* 763-12-12.

CAUWENBERG, Willy Van, DR. ECON.; Belgian diplomatist; b. 18 July 1914; m. Nini Wenger 1940; ed. Rijksuniversiteit te Gent; joined Diplomatic Service 1938; Vice-Consul New York 1945, Consul, New York 1946-52; Consul-Gen. Kansas City 1952-54, San Francisco 1954-58; Econ. Minister, Washington, D.C. 1958-63; Amb. to Australia 1963-66, to Netherlands 1966-74, to U.S.A. 1974-; Grand Officer Order of the Crown (Belgium), Grand Officer Order of Merit (Luxembourg), Grand Officer Order of Leopold (Belgium), Grand Officer Order of Leopold II (Belgium), Order of Orange-Nassau, Grand Cross (Netherlands). *Address:* Royal Belgian Embassy, 3330 Garfield Street, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* (202) 333-6900.

CAVALCÂNTI, José Costa; Brazilian army officer and politician; b. 6 Jan. 1918, Fortaleza, Ceará; m. Haideia Correia Cavalcânti; four s.; ed. Colégio dos Irmaõs Maristas and Escola Militar do Realengo; Second Lieut. 1938, rose to Col. 1964; Instructor at Gen. Staff Coll. after Second World War; U.S. Infantry Training 1952; Brazilian Mil. Attaché in U.S.A. 1955-57; Sec. of Mixed Comm. on Brazilian-U.S. Defence 1958; Sec. for Security, Pernambuco 1959; mem. Fed. Chamber of Deputies 1962-, Pres. Comm. on Nat. Security; Minister of Mines and Power 1967-68; Minister of Interior and of Regional Orgs. 1968-74. *Address:* Chamber of Deputies, Brasilia, D.F., Brazil.

CAVANAUGH, Robert W., B.C.S.; American international banker; b. 27 Jan. 1914, Oil City, Pa.; s. of D. J. and Clara Straub Cavanaugh; m. Ruth Virginia Paul 1943; one s.; ed. Univ. of Notre Dame; with Fed. Deposit Corpn. 1936; U.S. Office of Alien Property Custodian 1942; U.S. Foreign Econ. Admin. 1944; State Dept. 1946; Treasury Dept. 1947; Treas., Int. Bank, Int. Devt. Assn. and Int. Finance Corpn. 1947; Chair. and Chief Exec. Officer, Chase Manhattan Trust Corpn. Ltd. 1969-; Officer, Order of Leopold II. *Address:* Chase Manhattan Trust Corpn. Ltd., P.O. Box 1543, Nassau, Bahamas.

CAVE, Sir Richard Guy, Kt., M.C.; British businessman; b. 16 March 1920, Bickley, Kent; s. of William Thomas Cave and Gwendolyn Mary Nichols; m. Dorothy Gillian Fry 1957; two s. two d.; ed. Tonbridge School and Gonville and Caius Coll., Cambridge; Smiths Industries Ltd. 1946-76, Man. Dir. of Motor Accessory Div. 1963, Chief Exec. and Man. Dir. 1968-73, Chair. 1973-76; Chair. Thorn Electrical Industries Ltd. Sept. 1976-; Dir. Tate and Lyle Ltd., Equity & Law Life Assurance Soc. Ltd., Tunnel Holdings Ltd.; mem. British Overseas Trade Bd., Council of Industrial Soc.; Counsellor of British Electrical and Allied Mfrs. Assn. *Leisure interest:* sailing. *Address:* Thamescote, Chiswick Mall, London, W.4, England. *Telephone:* 01-994 8017.

CAYZER, Sir William Nicholas, Bt.; British shipowner; b. 21 Jan. 1910, Scotland; s. of the late Sir Augustus Cayzer, 1st Bt. and the late Ina Frances Stancomb; m. Elizabeth Catherine Williams 1935; two d.; ed. Eton and Corpus Christi Coll., Cambridge; joined Clan Line Steamers Ltd. 1931; Chair. Liverpool Steamship Owners Assn. 1944-45; Chair. Gen. Council of British Shipping 1959; Pres. Chamber of Shipping of the U.K. 1959, Chair. British Liner Cttee. 1960-63; Mem. Ministry of Transport Shipping Advisory Panel 1962-64; Pres. Inst. of Marine Engineers 1963; Prime Warden of the Worshipful Co. of Shipwrights 1969-70; Chair. British and Commonwealth Shipping Co. Ltd., Union Castle Mail Steamship Co. Ltd., Clan Line Steamers Ltd., Cayzer Irvine and Co. Ltd., Caledonia Investments Ltd., Scottish Lion Insurance Co. Ltd., Air Holdings Ltd. and various other cos. *Leisure interests:* gardening, golf. *Address:* Cayzer House, 2-4 St. Mary Axe, London, E.C.3; and 95J Eaton Square, London, S.W.1, England.

CAZZANIGA, Vincenzo; Italian oil executive; b. 3 Nov. 1907; ed. Bocconi Univ., Milan; Exec. Soc. Italiana Lubrificanti Bedford (affiliate of Standard Oil Co.) 1932, Man. Dir. 1938; Head, N. Italy Mineral Oils Industrial Cttee. 1945, N. Italy Mineral Oils Dept. 1945-48, Head N. Italy Lubricants Dept., Italian Petroleum Cttee. 1945-48; Pres. Esso Standard Italiana 1951-74; mem. Exec. Cttee. Confindustria (Italian Mfrs. Assn.) 1957; Dir. Int. Chamber of Commerce 1957; Pres. Unione Petrolifera 1958-73, Sarpom 1961, Esso Chimica 1966, Milan Experimental Fuel Station; Dir. Rasiom 1961, Stanic 1963, Esso Europe Inc. 1966-, Minn. Mining and Mfg. Co. 1970, Montedison 1972-, Istituto Bancario Italiano S.p.A. 1973, Fiduciaria Mobiliare & Immobiliare S.p.A. 1973; Vice-Pres. Bastogi Finanziaria 1972; Chair. and Chief Exec. Bastogi Int. Ltd. 1973-; Pres. UCID (Christian Execs. Assn.) 1972-; Chair. Compagnia Tecnica Industrie Petroli, CTIP 1975; Ad honorem Degree 1971; Cavaliere del Lavoro, etc. *Address:* Via Porta Latina 8, Rome, Italy.

CEAUŞESCU, Nicolae; Romanian politician; b. 26 Jan. 1918, Scornicești-Olt; m. Elena Ceaşescu (q.v.); two s. one d.; ed. Acad. of Economic Studies, Bucharest; mem. Union of Communist Youth 1933-, Communist Party of Romania 1933-; imprisoned for anti-fascist activities 1936-38, 1940-44; Sec. Cen. Cttee., Union of Communist Youth 1939-40, 1944-45; alt. mem. Cen. Cttee. Romanian Workers' Party (now Communist Party) 1945, mem. 1952-; Deputy Minister of Agriculture 1948-50; Deputy in the Grand Nat. Assembly 1948-; Deputy Minister of Armed Forces 1950-54; alt. mem. of Political Bureau 1954, mem. 1955-65; Sec. Cen. Cttee. of Romanian Workers' Party (now Communist Party) 1954-65, First Sec. 1965; mem. Exec. Cttee. 1965-74, Political Exec. Cttee. 1974–; Perm. Presidium 1965-74; Sec.-Gen. Cen. Cttee. 1965-69; Pres. State Council 1967-, Nat. Council of Socialist Unity Front 1968-74; Sec.-Gen. Romanian Communist Party 1969-; Pres. Socialist Repub. of Romania 1974-; Hon. Pres. Acad. of Social and Political Sciences 1970-; Chair. Supreme Council on Social and Econ. Devt. 1973-, Nat. Council of Working People 1977-; Dr. h.c. Univs. of Bucharest 1973, Bogotá 1973, Quito 1974, Lima 1974, Beirut 1974, Buenos Aires 1974, Bahia Blanca 1974, Nice 1975, Quezon City 1975, Yucatan 1975, Teheran 1975, Ph.D. political science, Ph.D. econs. 1978, Hero of Socialist Labour 1964; Hero of Socialist Repub. of Romania 1971, 1978; Gold Medal Frédéric Joliot-Curie Peace Award 1977; order Victory of Socialism 1978. *Publications:* Romania on the way to Completing Socialist Construction (3 vols.) 1969-72, For a Policy of Peace and International Co-operation 1970, Romania on the Way to Building Up the Multilaterally Developed Socialist Society (Vols. IV-VIII) 1970-78. *Address:* Office of the President, Bucharest, Romania.

CEAUŞESCU, Elena, PH.D.(CHEM.); Romanian scientist and politician, wife of Nicolae Ceauşescu, (*q.v.*) President of Socialist Repub. of Romania; b. 7 Jan. 1919, ed. Coll. of Industrial Chemistry, Polytechnic Inst., Bucharest; involved in militant activities in Union of Communist Youth (UCY) and trade unions before and during World War II; mem. Romanian Communist Party (RCP) 1937-; mem. Cen. Cttee. RCP 1972-; mem. Exec. Political Cttee. 1973-; mem. Standing Bureau 1977-; mem. Grand Nat. Ass.; Gen. Dir. Cen. Inst. of Chemical Research; mem. Exec. Bureau, Nat. Council on Science and Tech. 1972-; mem. Romanian Acad. 1974–; mem. New York Acad. of Sciences 1973; Corresp. mem. Athens Acad. 1976; Hon. mem. Int. Inst. of Industrial Chemistry 1970, American Inst. of Chemists, Chemical Eng. Coll. San José, Cen. Univ. Ecuador, Natural Sciences Inst. Quito, Nat. Univ. of Engineering, Lima 1973, Chemical Soc. Mexico 1975, Acad. of Arts and Sciences, Ghana 1977; Dr. (Univs. of Buenos Aires and Bahia Blanca) 1974, (Manilla,

Yucatán, Tehran) 1975; Hero of Socialist Labour 1971; Order, Victory of Socialism 1975. *Publications:* Research on the Synthesis and Description of Macromolecular Compounds 1974, studies and articles in learned reviews. *Address:* Comitetul Central, Partidul Comunist Român, Bucharest, Romania.

CECIL, Lord (Edward Christian) David (Gascoyne), C.H.; British writer; b. 9 April 1902; ed. Eton, Christ Church, Oxford; Trustee Nat. Portrait Gallery 1937-51; Goldsmiths' Prof. of English Literature, Oxford Univ. 1948-69, Fellow New Coll., Oxford 1939-69, now Hon. Fellow; C.Lit. 1972. *Publications:* The Stricken Deer 1929, Sir Walter Scott 1933, Early Victorian Novelists 1934, Jane Austen 1935, The Young Melbourne 1939, The Oxford Book of Christian Verse (Editor) 1940, Hardy, the Novelist 1943, Two Quiet Lives 1948, Poets and Story-Tellers 1949, Lord M 1954, The Fine Art of Reading 1957, Max 1964, Visionary and Dreamer 1969, A Portrait of Jane Austen, Editor The Bodley Head Max Beerbohm 1970, A Choice of Tennyson's Verse 1971, The Cecils of Hatfield House 1973, Library Looking-glass 1975. *Address:* Red Lion House, Cranborne, Wimborne, Dorset, England.

CEFIS, Eugenio; Italian business executive; b. 21 July 1921, Cividale; m. 1943; ed. Univ. of Milan; commissioned in Sardinian Grenadiers; Vice-Pres. Ente Nazionale Idrocarburi (ENI) until 1967, Pres. 1967-71; Pres. Montedison 1971-77, Chair. Montedison Int. Holdings 1977-; Dir. Snia Viscosa 1971-. *Address:* Montedison, Foro Bonaparte 31, Milan, Italy.

CEGIELSKI, Longin, D.AGRIC.; Polish politician; b. 1920, Moszczenica, Nowy Sącz voivodship; ed. agricultural studies; mem. of Peasant Batallions (BCh) in Cracow district during Nazi occupation 1940-45; mem. Peasant Party (SL) 1946-49, United Peasant Party (ZSL) 1949-, Cen. Cttee. 1969-, Presidium of Cen. Cttee. 1971-; worked in Agricultural Econ. Dept. of ZSL Cen. Cttee. 1949, later Editor Zielony Sztandar (Green Banner) till 1957; Counsellor, then Dir. of Office of Deputy Chair. of Council of Ministers 1957-68; Deputy Minister of Agric. 1968-71; Deputy Chair. Planning Comm. attached to Council of Ministers 1971-76; Deputy Chair. Council of Ministers March 1976-; Deputy to Seym; numerous decorations including Order of Banner of Labour Second Class, Commdr.'s, Officer's and Knight's Cross of Order of Polonia Restituta. *Address:* Urząd Rady Ministrów PRL, Al. Ujazdowskie 1-3, 00-583 Warsaw, Poland.

CEJKA, Karl, D.IUR.; Austrian civil servant; b. 1 Dec. 1917, Schrems Lawer, Austria; s. of Karl and Maria (née Tomek) Cejka; m. Editha Gersch; two s.; ed. Vienna Univ.; began his career as journalist and lawyer; Asst. Man. Supervising Dept. Ministry of Food; Adviser to Ministry of Finance on financial man. of Radio, Posts and Telegraph; mem. Radio Advisory Cttee.; Chair. Preparatory Cttee. for Radio Reorganization 1956-57; Dir.-Gen. Austrian Radio 1957-60; Counsellor, Ministry of Finance; Head, Dept. for Devt. Aid; Head, Dept. for Public Debt and Export Promotion, Dept. for Credit Policy, Debt Administration and Int. Orgs.; mem. Supervisory Boards of several companies. *Leisure interests:* music, writing. *Address:* Montecuccoliplatz 12, 1130 Vienna, Austria. *Telephone:* 82-41-44.

CELA, Camilo José; Spanish writer; b. 11 May 1916; ed. Univ. de Madrid; Dir. and Publisher of journal Papeles de Son Armadans; mem. Real Acad. Española 1957; Premio de la critica 1955. *Publications include:* La Familia de Pascual Duarte (novel) 1942, Pabellón de reposo 1943-57, Nuevas andanzas y desventuras de Lazarillo de Tormes (short stories) 1944-55, Pisando la dudosa luz del día (poems) 1945, Mesa revuelta 1945 and 1957, Viaje a la Alcarria 1948, La colmena 1951, Del Miño al Bidasoa 1952, Mrs. Caldwell habla con su hijo 1953. La Catira 1955, Judíos, moros y cristianos 1956, El molino de viento (short stories) 1956, Nuevo retablo de don Cristobita 1957, Viaje al Pirineo de Lerida 1965, Diccionario Secreto I 1968, II 1971, San Camilo 1936 1969, María Sabina 1970, A vueltas con España (essays) 1973, Orifio de tinieblas 5 1973. *Address:* La Bonanova, Palma de Mallorca, Spain.

CELEBREZZE, Anthony J., LL.B.; American politician and lawyer; b. 4 Sept. 1910, Anzi, Potenza, Italy; m. Anne Marco 1938; one s. two d.; ed. John Carroll and Ohio Northern Univs.; admitted Ohio Bar 1936; practised law in Cleveland; U.S. Navy Second World War; Senator, Ohio State 1952-53; Mayor of Cleveland 1953-62; U.S. Sec. of Health, Educ. and Welfare, July 1962-65; Judge, U.S. Court of Appeals 1965-; Order of Merit (Italy); Doctor of Humanity (Wilberforce Univ.) and many other hon. degrees; Democrat. *Leisure interests:* reading, fishing, hunting. *Address:* 312 Federal Building, Cleveland, Ohio 44114 (Office); 17825 Lake Road, Lakewood, Ohio 44107, U.S.A. (Home). *Telephone:* 522-4270 (Home).

CELIBIDACHE, Sergiu; Romanian-born German conductor, composer and musicologist; b. 28 June 1912; ed. Jassy and Berlin; Conductor and Artistic Dir. Berlin Philharmonic Orchestra 1946-51; now guest conductor to leading European orchestras; German Critics' Prize 1953, Berlin City Art Prize 1955; Grosses Verdienstkreuz (Fed. Repub. of Germany). *Address:* 1955 Kunstpreis Stadt, Berlin, Federal Republic of Germany.

CÉLIER, Pierre, B.A., LL.B.; French company executive; b. 25 Feb. 1917, Paris 7e; s. of Comte Alexandre Célier and Comtesse Elisabeth de Gastines; m. France-Victoire de Wendel 1942; one s. one d.; ed. Coll. Saint-Louis de Gonzague, Faculty of Arts and Faculty of Law (Paris). Inspecteur des Finances 1942-48; Asst. Dir.-Gen. Wendel et Cie. 1952-68; Dir.-Gen. Wendel-Sidélot 1968-73; Pres. of Directoire, Sacilor 1973-78; Pres. Admin. Board Marine-Wendel July 1975-; Officer Légion d'honneur; Croix de guerre 1945. *Address:* 37 rue de l'Université, 75067 Paris, France (Home). *Telephone:* 228 81 36 (Home).

ÇELIK, Vedat; Cypriot politician; b. 6 May 1935, Tera; m. Beria Irfan 1956; two s. one d.; ed. English School, Cyprus, and Univ. of Wales, Cardiff; Sr. Admin. posts in Civil Service 1953-60; Foreign Service 1961-68; Under-Sec. to Pres. Turkish Communal Chamber 1969-72; Minister of Commerce, Industry and Tourism of Turkish Cypriot Admin. 1973-75; Minister of State for Foreign Affairs 1975-76; Deputy Prime Minister, Minister of Defence and Foreign Affairs, Turkish Fed. State of Cyprus (TFSC) 1975-78; Minister of Tourism and Information 1978-. Turkish Cypriot Rep. to UN 1975; mem. for Kyrenia, Legislative Ass. TFSC 1976-. *Publications:* various papers on constitutional and political aspects of Cyprus problem. *Leisure interests:* hunting, swimming, underwater fishing. *Address:* c/o Ministry of Tourism and Information, Lefkoşe, Mersin 10 (Office); 9 Tuna Street, Kumsal, Lefkoşe, Mersin 10, Turkey (Home).

CELIO, Nello, D.IUR.; Swiss lawyer and politician; b. 12 Feb. 1914; ed. Univs. of Basel and Berne; Sec. Cantonal Interior Dept. 1941-45; Public Procurator 1945-46; mem. Council of States 1946-49, Nat. Council 1963-; mem. Fed. Council 1967-73, Vice-Pres. Jan.-Dec. 1971, Pres. Jan.-Dec. 1972; Head of Fed. Mil. (Defence) Dept. 1967-68, of Finance and Customs Dept. 1968-73; fmr. Pres. Radical Democrat Party. *Address:* Via Ronchi 13, Lugano, Switzerland.

CELLER, Emanuel; American politician; b. 6 May 1888; ed. Columbia Univ.; Legal practice, New York 1912-; mem. U.S. House of Reps. 1923-72, Chair. Judiciary Cttee. until 1972; Author, Fed. Register Act, Foreign Trade Zone Act, Celler Anti-Merger Act, Celler Civil Rights Act, 1957-60; Dir. Philanthropic religious orgs.; Order of Repub. of Guatemala, Commendatore dell 'Ordine al Merito della Repubblica Italiana, Alexander Hamilton Medal (Columbia Univ.); Democrat. *Publication:* You Never Leave Brooklyn (autobiog.). *Address:* 425 Park Avenue, New York, N.Y. 10022 (Office); 9 Prospect Park, West Brooklyn, N.Y. 11215, U.S.A. (Home).

CÉPÈDE, Michel; French agriculturalist; b. 20 Oct. 1908, Wimereux, Pas de Calais; s. of the late Casimir Cépède and Léonie Paccard; m. Yvonne Troude 1930 (died 1977); one s. three d.; ed. Lycée Louis-le-Grand, Saint Louis Inst. Nat. Agronomique and Univ. de Paris à la Sorbonne; Asst. Prof. Rural Econ., Nat. Agronomic Inst. 1931-47, Prof. 1947-; with Ministry of Agriculture 1944-59, Dir. of Studies and of the Plan 1957-59; Pres. Agricultural Cttee. OECD 1959-62; mem. French Del. to FAO 1945-69, Vice-Pres. 1965; mem. Programme Cttee. 1956-69, Pres. 1963-69; Ind. Chair. of the Council 1969-73; numerous other posts with FAO and UN; Sec.-Gen. Interministerial Cttee. for Food and Agriculture 1946-57, Pres. 1957; Pres. Interministerial Cttee. of World Campaign against Hunger 1960-69; mem. Acad. d'Agriculture de France; Foreign mem. Acad. of Agrarian Econ., Florence; numerous decorations and honours. *Publications:* Du prix de revient au produit net en agriculture 1946, Economie alimentaire du globe 1953, Economía Mundial de la Alimentación 1955, L'économie des besoins 1956, La vie rurale dans l'arc alpin 1960, Agriculture et alimentation en France durant la II Guerre Mondiale 1961, Nourrir les hommes 1963, Population and Food 1965, L'agriculture en l'administration française 1965, La faim 1967, La science contre la faim 1970, La solidarité 1973, and numerous articles on agricultural subjects. *Leisure interest:* archaeology. *Address:* 2 bis avenue de Sénart, 91230 Montgeron, France. *Telephone:* 551-61-38 (Office); 942-49-47 (Home).

ČERNIK, Oldřich; Czechoslovak politician; b. 27 Oct. 1921, Ostrava; ed. Mining Coll., Ostrava; machine fitter at Vítkovice Iron Works 1937-49; Sec. District Cttee of CP of Czechoslovakia, Opava 1949-54, Chair. Regional Nat. Cttee., Ostrava 1954-56; Sec. Cen. Cttee. of CP of Czechoslovakia 1956-60; mem. Econ. Comm. Cen.

Cttee. 1963-70; Minister of Fuel and Power 1960-63, of Fuel 1963; Deputy Prime Minister and Chair. State Planning Comm. 1963-68; Prime Minister April-Dec. 1968, Prime Minister Fed. Govt. of Czechoslovak Socialist Repub. 1969-70; mem. Presidium Cen. Cttee. CP of Czechoslovakia 1966-70; mem. of Cen. Cttee. Bureau for directing party work in Czech lands 1969; Minister, Chair. of Cttee. for Technological and Investment Devt. 1970; Deputy to Nat. Assembly 1960-69; Deputy to House of the People, Fed. Assembly 1969-70; suspended from CP of Czechoslovakia 1970. *Address:* Committee for Technological and Investment Development, Prague 2, Slezská 7, Czechoslovakia.

ČERNIK, Dr. Zdeněk; Czechoslovak diplomatist; b. 26 Feb. 1921, Ostrava; m.; two c.; ed. Inst. of Political and Social Sciences, Prague; joined Ministry of Foreign Affairs 1950; Deputy Head of Dept. of Int. Orgs. 1956-62, Head 1962-68; Deputy Perm. Rep. to UN 1959-62, Perm. Rep. 1968-73; Chief of Protocol 1973-77; Amb. to U.K. (also accred. to Ireland) 1977-; Head Czechoslovak Del. to Eighteen-Nation Disarmament Conf., Geneva 1965-67. *Address:* Czechoslovak Embassy, 25 Kensington Palace Gardens, London, W8 4QY, England.

CERULLI, Enrico, LL.D.; Italian diplomatist (retd.), anthropologist and linguist; b. 15 Feb. 1898, Naples; m. Lina Ciotola 1936; two s.; ed. Univ. of Naples; entered Civil Service 1920; Sec. and later Dir. of Political Affairs, Italian Somaliland 1920-25; First Sec. and later Counsellor, Italian Legation, Ethiopia 1926-29; Italian rep. Anglo-Italian Boundary Comm., Somaliland 1930-31; Head of Political Dep., later Sec.-Gen., Ministry for Italian Africa 1932-35; mem. Italian del. to L.N. 1935-37; Deputy Gov.-Gen. Italian East Africa 1938-39; retd. 1940-44; Counsellor of State and mem. of del. to Peace Conf. 1944-47; Italian rep. Four-Power Confs., London, and later to UN on question of Italian African territories 1947-49; Italian rep. UN Trusteeship Council 1949-50; Amb. to Iran 1950-54; Counsellor of State 1955-68; mem. Acad. dei Lincei (Vice-Pres. 1976-), British Acad., Inst. de France, Acad. Royale de Belgique, Real Acad. Española, Acad. Portuguesa de Historia, Akad. der Wissenschaften, Göttingen, Pontificial Acad. of Archaeology, etc.; Hon. Litt.D. (Brussels, Rome, Manchester); Corresp. Prof., S.O.A.S., Univ. of London; Hon. mem. Royal Asiatic Soc., London, Royal Anthropological Inst., London; fmr. Pres. Italian Anthropological Inst. *Publications:* The Folk Literature of the Galla in Southern Etiopia 1922, Etiopia Occidentale (2 vols.) 1930-33, Studi Etiopici (4 vols.) 1936-51, The Book of the Staircase and the Spanish-Arabic Sources of Dante 1949, History of Ethiopic Literature 1956, Somalia (3 vols.) 1958-59, Islam of Yesterday and Today 1971, New Researches on the Book of the Staircase 1972, A Collection of Persian Tales translated in Venice in 1557 1975. *Address:* Accademia Nazionale dei Lincei, Palazzo Corsini, 00165 Rome; and 11 Via Lovanio, 00198 Rome, Italy.

CÉSAIRE, Aimé Fernand, L. ÈS L.; French (Martiniquais) poet, dramatist and politician; b. 25 June 1913, Basse-Pointe, Martinique; s. of Fernand and Marie (Hermine) Césaire; m. Suzanne Roussi 1937; six c.; ed. Fort-de-France (Martinique) and Lycée Louis-le-Grand (Paris), Ecole Normale Supérieure and the Sorbonne; teaching career until 1945; mem. Constituent Assemblies 1945 and 1946; Dep. for Martinique 1946-; Pres. Parti Progressiste Martiniquais; Mayor of Fort-de-France 1945-. *Publications:* Verse: Cahier d'un retour au pays natal, Les armes miraculeuses, Et les chiens se taisaient, Soleil cou coupé, Corps perdu, Cadastre, Ferrements; Essays: Discours sur le colonialisme; Theatre: La tragédie du roi Christophe, Une saison au Congo, Une tempête. *Address:* Assemblée Nationale, 75007 Paris, France; La Mairie, Fort-de-France, Martinique, West Indies.

CEYRAC, François; French trade union administrator; b. 12 Sept. 1912, Meyssac; ed. Lycée Louis-le-Grand and Univ. of Paris. Metal Workers' and Miners' Union branch chief 1936, Asst. Sec.-Gen. 1945, Deputy Sec.-Gen. 1952-68, Pres. 1969-; social comm. of Patronat Français 1946-, mem. of council 1967-, Vice-Pres. 1968-73, Pres. 1973-; Dir. Wendel et Cie., Soc. Fonderie de Précision, Soc. Peugeot; founding mem. of Comité National pour le Développement des Grandes Ecoles; Officier, Légion d'honneur. *Leisure interest:* sailing. *Address:* 31 avenue Pierre-Ier-de-Serbie, 75008 Paris (Office); 16 avenue des Courlis, 78 Le Vésinet, France (Home).

CHABAN-DELMAS, Jacques Michel Pierre; French politician; b. 7 March 1915; ed. Lycée Lakanal, Sceaux, École Libre des Sciences Politiques, Paris; served army 1939-40, Brig.-Gen. 1940; nat. mil. del. responsible for co-ordination of mil. planning, Resistance 1944; Insp.-Gen. of Army Nov. 1944; Sec.-Gen. Ministry of Information 1945; elected Radical deputy for Gironde 1946; Mayor of Bordeaux 1947-; leader of Gaullist group (Républicains Sociaux) in Nat. Assembly 1953-56; mem. Consultative Assembly, Council of Europe; Inspecteur des Finances 1956-57; Minister of Nat. Defence 1957-58; Pres. of Nat. Assembly 1958-59; Prime Minister 1969-72; Insp.-Gen. des Finances 1973-; Pres. Regional Council, Aquitaine 1974-79; Cand. for Pres. of France May 1974; Pres. of Comm. for Regional Econ. Devt. of Aquitaine 1964-69; Pres. European Assembly of Local Authorities, United Towns Org.; Commdr. Légion d'honneur; Croix de guerre. *Address:* La Mendicka, Urrugne, 64700 Hendaye, France.

CHABERT, Jos, DR. EN DROIT; Belgian lawyer and politician; b. 16 March 1933, Etterbeek; ed. Univs. of Brussels and Louvain. Advocate Court of Appeal; Alderman, Meise; mem. Board of Admin. Intercommunale Haviland; mem. Chamber of Reps. 1968-74, Senator 1974-; Pres. of Christian Social Party Group in Parl. 1972-73; mem. Finance and Steering Cttees., Cultural Council for the Dutch cultural community; Minister of Dutch Culture and Flemish Affairs 1973-74, of Communications 1974-; Pres. Atelier protégé pour handicapés de Meise. *Address:* Ministry of Communications, rue de la Loi 65, 1040 Brussels, Belgium.

CHABROL, Claude; French film director and producer; b. 24 June 1930; ed. Paris Univ., Ecole Libre des Sciences Politiques; fmrly. film critic and Public Relations Officer in Paris for 20th-Century Fox; dir. and producer 1958-. *Films directed include:* Le beau Serge 1957, Les cousins 1958, A double tour 1959, Les bonnes femmes 1959, Les godelureaux 1960, Ophélia 1962, L'oeil du malin 1961, Landru 1962, Les plus belles escroqueries du monde 1963, Le tigre aime la chair fraîche 1964, Le tigre se parfume à la dynamite 1965, Marie-Chantal contre le Docteur Kha 1965, Le scandale 1967, Les biches 1968, La femme infidèle 1968, Que la bête meure 1969, Le boucher 1970, La rupture 1970, Juste avant la nuit 1971, Doctor Popaul 1972, La décade prodigieuse 1972, Les noces rouges 1973, Nada 1974, Les innocents aux mains sales 1975, Une partie de plaisir 1976, Alice ou la dernière fugue 1977, Les liens de sang 1977, Violette Nozière 1978; Locarno Festival Grand Prix 1958, Berlin Festival Golden Bear 1959. *Publications:* Alfred Hitchcock (with E. Rohmer). *Address:* 49 boulevard de Château, 92 Neuilly-sur-Seine, France. *Telephone:* Maillot 8849.

CHADENET, Bernard; French international civil servant; b. 16 Sept. 1915, Paris; m. Françoise Chêne-Carrère 1944; two d.; ed. Univ. de Paris à la Sorbonne and Ecole Supérieure d'Electricité, Paris, and Harvard Business School; Engineer and Chief, Public Utilities Div., Projects Dept., Int. Bank for Reconstruction and Devt. (World Bank) 1954-58; Gen. Man. NEYRPIC, Grenoble 1958-64; Assoc. Dir. Projects Dept., World Bank 1964-67, Deputy Dir. 1968-72, Vice-Pres. for Admin., Org. and Personnel Man. 1972-; Chevalier Légion d'honneur. *Leisure interest:* skiing. *Address:* 4759 Berkeley Terrace, N.W., Washington, D.C. 20007, U.S.A. *Telephone:* 333-1441.

CHADLI, Col. Bendjedid; Algerian army officer and politician; b. 14 April 1929, Sebaa. Joined Maquisards guerrilla forces in fight for independence against French 1955; mem. General Staff of Col. Boumedienne's army 1961; Commr. Constantine Mil. Region, East Algeria 1962, of Oran, Western Mil. Region 1963-79; mem. Revolutionary Council 1965; Acting Chief of Staff 1978; Sec. Gen. National Liberation Front Feb. 1979-; President of Algeria Feb. 1979-. *Address:* Office du Président, Algiers, Algeria.

CHADWICK, John, M.A., LITT.D., F.B.A.; British classical scholar; b. 21 May 1920, East Sheen, Surrey; s. of Fred Chadwick and Margaret Bray; m. Joan Isobel Hill 1947; one s.; ed. St. Paul's School, London, Corpus Christi Coll., Cambridge Univ.; war service in Royal Navy 1940-45; Editorial Asst. Oxford Latin Dictionary 1946-52; Lecturer in Classics, Cambridge Univ. 1952-66, Reader in Greek Language 1966-69, Perceval Maitland Laurence Reader in Greek Language 1969-; Collins Fellow, Downing Coll., Cambridge 1960-; Sec. Gen. Perm. Int. Cttee. for Mycenaean Studies 1975-; co-operated with Michael Ventris in the decipherment of the Minoan Linear B script; Corresp. mem. German archaeological Inst. 1957, Austrian Acad. of Sciences 1974, Acad. des Inscriptions et Belles Lettres, Inst. de France 1975; Hon. Fellow Athens Archaeological Soc. 1974; Hon. Doctorate, Athens Univ. Philosophical School 1958, Univ. Libre de Bruxelles 1969; Hon. Litt.D. (Trinity Coll., Dublin) 1971. *Publications:* The Medical Works of Hippocrates (with W. N. Mann) 1950; Documents in Mycenaean Greek (with Michael Ventris) 1956; The Decipherment of Linear B 1958 trans. into 11 languages 1959-76; The Pre-History of the Greek Language (in Cambridge Ancient History, Vol. II) 1963; The Mycenaean World 1976; Editor The Mycenae Tablets III 1963; Joint Editor The Knossos Tablets IV 1971; various articles in learned journals. *Leisure interest:* travel. *Address:* Downing College, Cambridge CB2 1DQ, England. *Telephone:* Cambridge 59491.

CHADWICK, Lynn Russell, C.B.E.; British sculptor; b. 24 Nov. 1914; ed. Merchant Taylors School; works shown in London, New York, Paris, Brussels (Exposition 1958) and Venice, where he won the International Sculpture Prize at the Biennale 1956; 1st Prize Padua Int. Competition 1959; Hors Concours, Bienal São Paulo 1961. *Address:* Lypiatt Park, Stroud, Glos., England.

CHADWICK, William Owen, F.B.A.; British historian; b. 20 May 1916, Bromley, Kent; s. of John and Edith (née Horrocks) Chadwick; m. Ruth Hallward 1949; two s. two d.; ed. St. John's Coll., Cambridge; Fellow, Trinity Hall, Cambridge 1947-56; Master of Selwyn Coll., Cambridge 1956-; Dixie Prof. of Ecclesiastical History, Cambridge Univ. 1958-68, Regius Prof. of Modern History 1968-; Vice-Chancellor of Cambridge Univ. 1969-71; Hon. D.D. (St. Andrews) 1960, (Oxford) 1973, Hon. D.Litt. (Kent) 1970, (Columbia Univ.) 1977, (East Anglia) 1977, (Bristol) 1977. *Publications:* From Bossuet to Newman 1957, The Victorian Church (2 vols.) 1966-70, The Mind of the Oxford Movement (2nd edn.) 1967, John Cassian (2nd edn.) 1968, The Reformation (8th edn.) 1975, The Secularization of the European Mind 1976; numerous articles and reviews in learned journals. *Leisure interests:* music, sailing. *Address:* The Master's Lodge, Selwyn College, Cambridge, England.

CHAFEE, John H., B.A., LL.B.; American lawyer and politician; b. 22 Oct. 1922, Providence, R.I.; s. of John Sharpe and Janet Hunter Chafee; m. Virginia Coates, 1950; four s. one d.; ed. Deerfield Acad., Yale Univ., and Harvard Law School; U.S. Marine Corps 1942-46, 1951-52; admitted to Rhode Island Bar 1951; State Rep. R.I. House 1956-62; Gov. of Rhode Island 1963-69, Senator 1977-; Sec. of the Navy 1969-72; Hon. LL.D. (Brown Univ., Providence Coll., Univ. of R.I.); Visiting Chubb Fellow, Yale Univ. 1965; Chair. Compact for Educ. 1965, Republican Govs'. Assn. 1967-68; Trustee, Deerfield Acad. 1970-, Yale Univ. 1972-; Republican. *Leisure interests:* squash, tennis, sailing, skiing. *Address:* 3105 Dirksen Senate Office Bldg., Washington D.C. 20510, U.S.A. *Telephone:* 202-224-2921 (Office).

CHAGALL, Marc; French (Russian-born) artist; b. 7 July 1887, Vitebsk; lived in France 1910-14, Russia 1914-22, France 1922-41, U.S.A. 1941-48, France 1948-; works include paintings, engravings, murals, costumes and décor for ballet and theatre, and ceramics; stained glass windows for synagogue of Medical Centre near Jerusalem; ceiling for Paris Opera 1964; murals for Metropolitan Opera House, Lincoln Center, New York 1966; sets for The Magic Flute (Mozart), Metropolitan Opera 1967; has exhibited in Tate Gallery, London, museums in Amsterdam, Paris, Chicago, New York, Venice, Jerusalem, Tel-Aviv, Berne, Zürich, Turin, Rome, Milan; exhbn. at Zürich Kunsthaus 1967, at Tretyakov Art Gallery, Moscow 1973; Int. Prize for Engraving, Venice Biennale 1948, Erasmus Prize 1960; Commdr. des Arts et des Lettres, Grand Croix, Légion d'honneur 1977, Grand Croix, Ordre national du mérite. *Publications:* Ma Vie 1931, English trans. 1965. *Address:* Villa la Colline, Quartier les Gardettes, 06570 Saint-Paul, France.

CHAGAS, Carlos, M.D., SC.D.; Brazilian biophysicist; b. 1910; ed. Colégio Rezende, Univ. do Brasil and Univ. de Paris; began career as Asst. at Inst. Oswaldo Cruz and Medical School, Univ. do Brasil; Prof. Univ. do Brasil Medical School 1937, Dir. Inst. of Biophysics 1946-64; mem. Brazilian Nat. Research Council 1950-55, UN Scientific Cttee. 1956-, WHO Scientific Advisory Cttee. 1959-61, Pan American Health Org. Scientific Advisory Cttee. 1962-; Chair. Exec. Cttee. Int. Brain Research Org.; Perm. Del. of Brazil to UNESCO; Adviser Puerto Rico Atomic Energy Comm.; mem. Brazilian Acads. of Science, Medicine and Pharmacy, Pontifical Acad. of Sciences, Assoc. Mem. Acad. de Médecine (Paris), Soc. de Biologie (Paris), London Physiological Soc.; Vice-Pres. ICSU; Dr. h.c. (Paris, Coimbra, Mexico, Recife Univs.); Premio Moinho Santista 1960; Commdr. Order of Christ (Portugal), of Merit (Italy); Officer, Légion d'honneur; Ordre de la Santé publique (France), Order of Polar Star (Sweden). *Publications include:* Homems ■ Cousas de Ciéncia (essays) and a large number of medical and scientific papers 1936-. *Address:* 38 Francisco Otaviano, Rio de Janeiro, RJ, Brazil.

CHAGLA, Mahomedali Currim, B.A.; Indian barrister; b. 30 Sept. 1900; ed. St. Xavier's High School and Coll., Bombay, and Lincoln Coll., Oxford. Pres. Oxford Indian Majlis 1922; called to Bar (Inner Temple) 1922; Prof. of Constitutional Law, Govt. Law Coll., Bombay 1927-30; Hon. Sec. Bar Council of High Court of Judicature, Bombay 1933-41; Puisne Judge Bombay High Court 1941-47; Chair. Legal Educ. Cttee. 1948; Vice-Chancellor, Bombay Univ. 1947; Chief Justice, High Court, Bombay 1947-58; Del. to UN 1946; Pres. Bombay Branch Royal Asiatic Soc. 1947-58; Gov. of Bombay 1956; Judge, Int. Court of Justice 1957; mem. Law Comm. 1955-58; Amb. to U.S., Mexico and Cuba 1958-61; High Commr. in U.K., Amb. to Ireland 1962-63; Minister of Educ., Govt. of India 1963-66, of External Affairs 1966-67; numerous Indian dels., including UN Gen. Ass. 1967; mem. Rajya Sabha; Chair. Life Insurance Corpn. Inquiry Comm. 1958; mem. Sikh Grievances Enquiry Comm. 1961; Hon. Fellow, Lincoln Coll., Oxford 1961; Hon. LL.D. Hartford, Temple, Boston, Leningrad and Punjab Univs., Dartmouth Coll., Benares Univ. *Publications:* The Indian Constitution 1929, Law, Liberty and Life 1950, The Individual and the State, An Ambassador Speaks 1962, Education and the Nation, Unity and Language, Roses in December—an Autobiography. *Address:* Pallonji Mansion, New Cuffe Parade, Bombay 5, India.

CHAGULA, Dr. Wilbert K., M.B., CH.B., M.A.; Tanzanian public servant and administrator; b. 3 Feb. 1926, Shinyanga, Tanganyika; s. of Kiyenze Chagula; unmarried; ed. Tabora Govt. School, Makerere Univ. Coll., Uganda, King's Coll., Cambridge Univ., Univ. of W. Indies, Jamaica, Yale Univ., U.S.A.; Asst. Medical Officer, Tanganyika 1952; Asst. in Dept. of Anatomy, Asst. Lecturer, Lecturer in Anatomy, Makerere Univ. Coll. 1953-61; Rockefeller Foundation Fellow in Histochemistry, Jamaica and Yale Univs. 1961-63; Registrar and Vice-Principal, Univ. Coll., Dar es Salaam 1963-65, Principal 1965-70; Minister for Water Devt. and Power 1970-72, for Econ. Affairs and Devt. Planning 1972-75, of Water Energy and Minerals 1975-77; Minister for Finance and Admin. (East African Community) 1977-78; Amb. to the UN, Geneva, Oct. 1978-; Chair. Tanzania Nat. Scientific Research Council 1972-; mem. UN Advisory Cttee. for the Application of Science and Technology to Devt. 1971- (Chair. sessions 1975-78), WHO Advisory Cttee. on Medical Research and WHO Expert Advisory Panel on Public Health Admin. 1976-77, UN Univ. Council 1977-, Bd. of Trustees Int. Fed. of Science 1975-, Editorial Bd. of Mazingira 1977-, E. African Acad. (Pres. 1963-, Fellow 1971), Medical Assn. of Tanzania, Econ. Soc. of Tanzania, The Third World Forum, Tanganyika African Nat. Union Nat. Exec. Cttee. 1969-75, Tanganyika Soc. of African Culture, Tanzania Soc.; Adviser Int. Fed. of Insts. of Advanced Studies. *Publications:* books and articles on education and health. *Leisure interests:* reading, writing. *Address:* Tanzanian Mission to the United Nations, 93 rue de la Servette, 1202 Geneva, Switzerland.

CHAI SHU-FAN; Chinese politician. Sixth Minister of Machine-Building 1978-. *Address:* People's Republic of China.

CHAILAKHAYAN, Mikhail Khristoforovich, DR.SC.; Soviet plant physiologist; b. 21 March 1902, Nakhuchevan-on-Don; ed. Yerevan State Univ.; Agronomist, Yerevan 1926-29; Lecturer, Faculty of Botany, Transcaucasian Zootechnical and Veterinary Inst. 1928-31; Aspirant (postgraduate), Lab. of Plant Physiology and Biochemistry, U.S.S.R. Acad. of Sciences, Leningrad 1931-34; Head of Lab., K. A. Timiriazev Inst. of Plant Physiology, U.S.S.R. Acad. of Sciences, Moscow 1935-; Chair. of Plant Anatomy and Physiology, Yerevan State Univ. 1941-48; Chair. of Plant Physiology and Microbiology, Yerevan Agric. Inst., Prof. 1943-; Corresp. mem. Armenian S.S.R. Acad. of Sciences, Yerevan 1945-71, mem. 1971–; Hon. Scientist, Armenian S.S.R., Yerevan 1967-; mem. U.S.S.R. Acad. of Sciences, Moscow 1968-, German Acad. Leopoldina-Halle 1969-; Corresp. mem. American Soc. of Plant Physiologists 1963-, American Botanical Soc. 1969-; Foreign mem. Bulgarian Botanical Soc., Sofia 1974-; Dr. h.c. (Rostock Univ., G.D.R.) 1969-; Order of Lenin (twice) and other decorations. *Publications:* many scientific works in field of physiology of higher plant growth and development processes. *Address:* K. A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Botanicheskaya 35, Moscow 127273, U.S.S.R. *Telephone:* 482-53-12.

CHAIN, Sir Ernst Boris, Kt., F.R.S., M.A., PH.D.; British biochemist; b. 19 June 1906, Berlin, Germany; s. of Dr. Michael Chain and Margarete Eisner; m. Anne Beloff 1948; two s. one d.; ed. Luisengymnasium and Friedrich-Wilhelm Univ., Berlin; Research in Chemical Dept., Pathological Inst., Charité Hospital, Berlin 1930-33; emigrated to England because of racial persecution 1933; research in School of Biochemistry, Cambridge 1933-35; Univ. Demonstrator and Lecturer in Chemical Pathology, Univ. of Oxford 1935-49; Guest Prof. of Biochemistry, Istituto Superiore di Sanità, Rome 1949; Prof. of Biochemistry and Scientific Dir. Int. Research Centre for Chemical Microbiology, Istituto Superiore di Sanità 1950-61; Prof. of Biochemistry, Imperial Coll. of Science and Technology, London 1961-73, Emer. Prof., Senior Research Fellow 1973-76; Hon. mem. U.S.S.R. Acad. of Sciences 1976-, and of other foreign acads. and learned socs.; many hon. degrees; awards include Nobel Prize for Physiology and Medicine 1945, Paul Ehrlich Prize 1954; Commdr. Légion d'honneur (France) 1947, Grand Ufficiale al Merito della Repubblica Italiana, Grand Decoration in Gold for services to the Repub. of Austria; Order of the Rising Sun (2nd degree). *Leisure interest:* music. *Address:* Department of Mech-

anical Engineering, Imperial College of Science, Imperial Institute Road, London, S.W.7; 7 Northview, Wimbledon Common, London, S.W.19, England.

CHAKAIPA, Patrick Fani; Rhodesian ecclesiastic; b. 25 June 1932, Mhondoro; ed. St. Michael's Mission, Mhondoro, Kutama Training Coll.; ordained Roman Catholic priest 1965; Titular Bishop of Rucuma and Auxiliary Bishop of Salisbury 1972-76; Archbishop of Salisbury June 1976-. *Publications:* Karikoga Gumiremiseve 1958, Pfumo Reropa 1961, Rudo Ibofu 1961, Garandichauya 6, 3, Dzasukwa Mwana Asina Hembe 1967. *Leisure interest:* chess. *Address:* Archbishop's House, 66 Fifth Street, Salisbury (Office); P.O. Box 8060, Causeway, Salisbury, Zimbabwe Rhodesia (Home). *Telephone:* 792125.

CHAKOVSKY, Aleksandr Borisovich; Soviet writer; b. 26 Aug. 1913, St. Petersburg (Leningrad); s. of Nina and Boris Chakovsky; m. Raisa Chakovskya 1945; one s. one d.; ed. Maxim Gorky Institute for Literature, Moscow; mem. CPSU 1941-; Editor-in-Chief Literaturnaya Gazeta 1962-; Sec. of Board, Union of Writers of U.S.S.R. 1963-; Deputy U.S.S.R. Supreme Soviet 1966-; Alternate mem. Cen. Cttee. CPSU 1971-; U.S.S.R. State Prize 1950; Hero of Socialist Labour 1973; Order of Lenin (twice), Order of October Revolution, Red Banner of Labour, Red Star, War Medals. *Publications include:* It Was in Leningrad (trilogy) 1944, Lyda 1945, Peaceful Days 1947, It's Already Morning with Us 1950, Khvan Cher is on Guard 1952, A Year of One Life 1956, Roads We Take 1960, Light of Distant Star 1962 (made into Film and play), Fiancée 1966 (made into Film and play), Blockade (5 vols.) 1968-75 (made into Film). *Leisure interest:* tennis. *Address:* Literaturnaya Gazeta, 30 Tsvetnoi Bulvar, Moscow, U.S.S.R. *Telephone:* 294-78-65.

CHAKRAVARTI, Subramaniam, M.A.; Indian administrator; b. 30 Aug. 1910, Madras; s. of T. K. Subramaniam and Bungaramma; m. Naina Rao 1940; two s.; ed. Hindu High School and Presidency Coll., Madras, London School of Econs. and Trinity Coll., Cambridge; Joint Sec. Ministry of Transport 1948-49; Chief, Industry Div., UN Econ. Mission for Asia and Far East 1950-51; Devt. Commr. and Sec. Planning and Devt. Dept., Govt. of Andhra Pradesh 1955; Admin., Nagarjunsagar Project 1955-59; Principal, Nat. Inst. of Study and Research in Community Devt., Mussoorie 1959-62; Sec. Ministry of Community Devt. and Co-operation 1963-65, Ministry of Food, Agriculture, Community Devt. and Co-operation 1966, Ministry of Transport 1967-69, Ministry of Educ. and Youth Services 1969-70; Gov. Himachal Pradesh 1971-77; fmr. del. to many int. confs. including ECAFE, UNICEF and UNESCO. *Leisure interests:* gardening, treks, golf. *Address:* 177 Jorbagh, New Delhi, India.

CHAKRAVARTY, Birendra Narayan, B.SC.; Indian administrator and diplomatist; b. 20 Dec. 1904, Bogra (Bangladesh); m. Indira Sanyal 1931; one s. one d.; ed. Presidency Coll., Calcutta Univ., Univ. Coll., London, School of Oriental Studies, London; joined Indian Civil Service 1929; held various appointments in Bengal districts and Bengal Secretariat; Finance Sec., Bengal Govt. 1944; Sec. to Gov., West Bengal 1947; Chargé d'affaires, Embassy of India, Nanking Feb.-June 1948; Head of Indian Liaison Mission, Tokyo, with personal rank of Minister 1948-49; Joint Sec., Ministry of External Affairs 1949-51; Sec. (Commonwealth Relations) 1951-52; Amb. to Netherlands 1952-54; Senior Alt. Chair. Neutral Nations Repatriation Comm., Korea 1953; Acting High Commr. to U.K. 1954, High Commr. to Ceylon 1955-56; Special Sec. Ministry of External Affairs 1956-60; High Commr. in Canada 1960-62; Perm. Rep. to UN 1962-65; Gov. of Haryana 1967-76. *Publication:* India Speaks to America. *Leisure interests:* gardening, photography. *Address:* c/o Haryana Raj Bhavan, Chandigarh, India. *Telephone:* 26085.

CHALANDON, Albin Paul Henri, L. ES L.; French businessman and politician; b. 11 June 1920, Reyrieux, Ain; s. of Pierre Chalandon and Claire Cambon; m. Princess Salomé Murat 1951; three c.; Inspecteur des Finances; Dir. Banque Nationale pour le Commerce et l'Industrie (Afrique) 1949; Admin. and Dir.-Gen. Banque Commerciale de Paris until 1964, Président-Directeur Général 1964-68; Minister of Industry May 1968, of Supply and Housing 1968-72; Special Asst., Ministry of Foreign Affairs 1974; mem. Cen. Cttee. Union pour la Nouvelle République (now Union des Démocrates pour la République) 1958-, Sec.-Gen. 1959, Deputy Sec.-Gen. UDR 1974; Chair. of Soc. Nationale de Pétroles d'Aquitaine (ERAP); mem. Social and Econ. Council; Officier Légion d'honneur, Croix de guerre. *Address:* 39 boulevard de Montmorency, 75016 Paris, France.

CHAŁASIŃSKI, Józef, PH.D.; Polish sociologist; b. 17 Feb. 1904, Rudnik, Lublin; m. Krystyna Chałasińska; ed. Poznań Univ.; Post-doctorate fellowship in U.S.A. and U.K. 1931-33; Prof. Free Univ., Warsaw 1936-39; Dir. State Inst. of Country Culture 1936-39; Prof. and Rector Łódź Univ. 1949-52; Prof. Warsaw Univ. 1953-74; collaborated in Yearbook of Education 1950-53; mem. Exec. Cttee. Int. Seminar for Family Research; Editor-in-Chief Nauka Polska 1953-57, Przegląd Socjologiczny 1935-39, 1957-, Kultura i Spotecześństwo 1957-, Młode Pokolenie Wsi Polski Luxowej 1964-; mem. Polish Acad. of Sciences 1952- (fmr. Deputy Scientific Sec.), mem. Presidium 1968-71, Sec. Dept. Social Sciences 1969-72; mem. Presidium Polish Cttee. for UNESCO Affairs; mem. Int. Social Science Council 1959-; Visiting Prof. California Univ. 1958; Chair. Study on Sociological and Cultural Problems of Contemporary Africa, Polish Acad. of Sciences until 1974; retd.; Wlodzimierz Pietrzak Scientific Prize 1967; Medal of 30th Anniversary of People's Poland 1974; Gold Cross of Merit, Commdr. Cross, Order of Polonia Restituta 1951, etc. *Publications:* Młode pokolenie chłopów (The Young Generation of Peasants) 1938, Społeczeństwo i wychowanie (Society and Upbringing) 1948, Przeszłość i Przyszłość Inteligencji Polskiej (Past and Future of the Polish Intelligentsia) 1958, Kultura Amerykańska (American Civilization) 1962, Blizej Afryki (Closer to Africa) with Krystyna Chałasińska 1965, Kultura i Naród (Culture and the Nations) 1968, Tradycje i perspektywy przyszłości kultury (Traditions and Perspectives of Future of Culture) 1970, The Diaries of the Young Peasant Generation as a Manifestation of Contemporary Culture 1972, Drogi awansu spotcznego robotnika (Ways for the Social Rise of the Worker), Szkota w spoteczeństwie amerykańskim (The School in American Society), 30 lat socjologii polskiej (Thirty Years of Polish Sociology). *Address:* Marszałkowska 16, m. 19, 00-590 Warsaw, Poland.

CHALFONT, Baron (Life Peer), cr. 1964; **(Arthur) Alun Gwynne Jones,** P.C., O.B.E., M.C.; British politician; b. 5 Dec. 1919, Lantarnam, Wales; s. of Arthur Gwynne Jones; m. Mona Mitchell, M.D., CH.B., 1948; ed. West Monmouth School; commissioned into S. Wales Borderers (24th Foot) 1940; Mil. Service Burma and India 1940-44, Cyprus, Malaya and East Africa 1944-61; Defence Corresp. The Times, London 1961-64; Minister of State for Foreign Affairs 1964-70, Minister for Disarmament 1964-67, 1969-70, in charge of day-to-day negotiations for Britain's entry into Common Market 1967-69; resigned from Labour Party 1974; Perm. Rep. to Western European Union 1969; Dir. IBM (U.K.) Ltd. 1973-, Actors Co. 1973–, Melo Productions 1973-. *Publications:* The Sword and the Spirit 1963, contribs. to journal of Royal United Services Inst. (The Ulster Debate 1972), Montgomery of Alamein 1977. *Leisure interests:* theatre, music. *Address:* 65 Ashley Gardens, London, SW1P 1QG, England.

CHALID, Idham (see Idham Chalid, Dr. Kjai Hadji).

CHALMERS, Floyd Sherman, O.C., LL.D., LITT.D., B.F.A.; Canadian publisher; b. 14 Sept. 1898, Chicago, Ill., U.S.A.; of Canadian-Scottish parentage; m. Jean A. Boxall 1921; one s. one d.; with Bank of Nova Scotia 1914; Reporter on Toronto News and Toronto World; joined Financial Post 1919, Montreal Editor 1923, Editor 1925-42; Exec. Vice-Pres. Maclean-Hunter Publishing Co. 1942-52, Pres. 1952-64, Chair. 1964-69, Hon. Chair. 1978; Chancellor, York Univ. 1969-73; Chair. Floyd S. Chalmers Foundation; Officer, Order of Canada 1967, Civic Award of Merit, Toronto 1974, Diplôme d'hon., Canadian Conf. of the Arts 1974, Canadian News Hall of Fame 1975, Canadian Music Council, Special Award 1977. *Leisure interests:* golf, theatre. *Address:* Room 805, 481 University Avenue, Toronto M5W 1A7 (Office); Apartment 4611, 44 Charles Street W., Toronto M4Y 1R8, Canada (Home). *Telephone:* 597-0319 (Office); 964-7667 (Home).

CHALORYOO, Admiral Sa'ngad (see Sa'ngad Chaloryoo, Admiral).

CHALUPA, Vlastimil, Ing.; Czechoslovak politician; b. 17 Oct. 1919, Ratenice; ed. Transport Inst., Žilina; held various econ. and CP posts 1945-51; engaged in govt. admin. and postal services 1952-69; Deputy Chair., Fed. Cttee. for Posts and Telecommunications 1970; Minister of Posts and Telecommunications 1971-; Head of Del. to CMEA Comm. for Posts and Telecommunications 1971-; Deputy Chair. of Cttee. of Friendship between G.D.R. and U.S.S.R., attached to the Czechoslovak Soc. for Int. Relations 1973-; Distinctions for "Merit in Construction" 1973, Order of Labour 74, Hon. Badge of the Central Council of Trade Unions 1974. *Address:* Ministry of Posts and Telecommunications, Olšanská 5, Prague 3, Czechoslovakia.

CHAMANT, Jean, L. EN D.; French lawyer and politician; b. 23 Nov. 1913; m. Hélène Claret 1936; one s. three d.; Advocate, Court of Appeal, Paris; Deputy for l'Yonne 1946-55, Senator 1977-; Sec. of State, Ministry of Foreign Affairs 1955-56; Vice-Pres. Nat. Ass. 1959-67; Minister of Transport 1967-69, 1971-72. *Address:* 6 rue Masseran, 75007 Paris, France. *Telephone:* 567-29-05.

CHAMBERLAIN, Joseph Wyan, A.M., M.S., PH.D.; American astronomer and geophysicist; b. 24 Aug. 1928, Boonville, Mo.; s. of Gilbert Lee Chamberlain and Jessie Wyan Chamberlain; m. Marilyn Roesler Chamberlain 1949; two s. one d.; ed. Univs. of Missouri and Michigan. Project Scientist in Aurora and Airglow, U.S.A.F., Cambridge Research Center 1951-53; Research Assoc., Yerkes Observatory, Univ. of Chicago 1953-55, Asst. Prof. of Astronomy 1955-59, Assoc. Prof. 1959-60, Assoc. Dir. Yerkes Observatory 1960-62, Prof. of Astronomy Jan.-June 1961, Prof. of Astronomy and Geophysical Sciences 1961-62; Assoc. Dir. for Planetary Sciences Div. (fmrly. Space Div.), Kitt Peak Nat. Observatory, Tucson, Ariz. 1962-70; Astronomer 1970-71; Dir. Lunar Science Inst., Houston, Texas 1971-73; Prof. Space Physics and Astronomy Dept., Rice Univ., Houston 1971-; Editor Reviews of Geophysics and Space Physics 1974-; mem. Nat. Acad. of Sciences; mem. numerous int. comms. and recipient of numerous awards. *Publications:* Theory of Planetary Atmospheres 1978, and over one hundred technical publs. on aurora, airglow and planetary astronomy. *Leisure interests:* golf, music, reading. *Address:* Space Physics and Astronomy Department, Rice Univ., Houston, Texas 77001, U.S.A. *Telephone:* (713) 527-8101, Ext. 3641.

CHAMBERLAIN, Owen, PH.D.; American physicist; b. 10 July 1920, San Francisco; s. of Edward and Genevieve Lucinda (Owen) Chamberlain; ed. Germantown Friends School, Dartmouth Coll., and Univ. of Chicago. Research physicist Manhattan Project, Berkeley 1942-43, Los Alamos 1943-46; graduate student (under Enrico Fermi) Univ. of Chicago 1946-48; Instructor in Physics Univ. of Calif., Berkeley 1948-50, Asst. Prof. 1950-54, Assoc. Prof. 1954-58, Prof. 1958-; on leave at Univ. of Rome as Guggenheim Fellow 1957-58; Loeb Lecturer, Harvard Univ. 1959; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; has specialized in research in spontaneous fission, proton scattering, discovery of antiproton, properties of antinucleons, etc.; shared Nobel Prize for Physics with Emilio Segre 1959. *Address:* Department of Physics, University of California, Berkeley 4, Calif., U.S.A.

CHAMBERS, Sir (Stanley) Paul, K.B.E., C.B., C.I.E., B.COM., M.SC.(ECON.); British businessman; b. 2 April 1904, London; s. of the late Philip Joseph Chambers; m. Edith Pollack 1955; two d.; ed. City of London Coll., and London School of Economics; mem. Indian Income Tax Enquiry Cttee. 1935-36; Income Tax Adviser to the Govt. of India 1937-40; Dir. of Statistics, Sec. and Commr. of Bd. of Inland Revenue 1940-47; Chief of Finance Div. Control Comm. for Germany, British Element 1945-47; Dir. ICI Ltd. 1947, Financial Dir. 1948-52, Deputy Chair. 1952-60, Chair. 1960-68; mem. Cttee. appointed to review the organization of Customs and Excise 1951-53; mem. Cttee. on Departmental Records 1952-54; Chair. Cttee. of Inquiry into London Transport 1953-55; Dir. Nat. Provincial Bank Ltd. 1951-69, Nat. Westminster Bank Ltd. 1969-74, Royal Insurance Co. Ltd. 1953-57 (Deputy Chair. 1966-68, Chair. 1968-74); Pres. Inst. of Dirs. 1964-68, British Shippers' Council 1963-68; Vice-Pres. The India, Pakistan, Burma Assn. 1955-71; Dir. Imperial Chemical Industries of Australia & New Zealand Ltd. 1952-68; Deputy Chair. of African Explosives & Chemical Industries Ltd. 1960-68; Pro-Chancellor Univ. of Kent 1971-77; Treas. The Open Univ. 1969-75; mem. Cttee. of Managers, Royal Inst. of G.B. 1976-; several hon. degrees. *Address:* 1A Frognal Gardens, Hampstead, London, N.W.3, England (Home). *Telephone:* 01-794 6906.

CHAMOUN, Camille, LL.D.; Lebanese lawyer and politician; b. 3 April 1900; ed. Coll. des Frères and Law School, Beirut; qualified as lawyer 1924; mem. Parl. 1934-; Minister of Finance 1938; Minister of Interior 1943-44; Minister to Allied Govts. in London 1944; Head of Del. to Int. Civil Aviation Conf., Chicago 1944, UNESCO Conf. and UN Preparatory Comm. 1945; Del. to UN Gen. Ass., London, New York 1946; Lebanese Rep. Interim Comm., UN 1948; Pres. Lebanese Republic 1952-58; Leader Liberal Nationalist Party 1958–; Deputy Prime Minister, Minister of the Interior, Posts, Telephones, Telecommunications, Power and Electricity 1975-76, also of Foreign Affairs June-Dec. 1976, of Defence Sept.-Dec. 1976. *Address:* Chambre des Députés, Place de l'Etoile, Beirut, Lebanon.

CHAMPETIER, Georges, D. ès SC. PHY.; French scientist; b. 3 Feb. 1905, Paris; s. of Hippolyte Champetier and Berthe Constant; m. Eugénie Haussonville 1927; two s. two d. Demonstrator, Ecole Pratique des Hautes Etudes, Paris 1928-30; Asst. Inst. de Biologie Physico-chimique, Paris 1930-37; Head of Lab., Faculty of Sciences, Univ. of Paris 1937-39; in charge of Research, Nat. Centre of Scientific Research 1939-45; Deputy Prof. Faculty of Sciences, Univ. of Paris 1945-47, Asst. Prof. 1947; Hon. Dir. Ecole Supérieure de Physique et de Chimie Industrielles Paris 1969-76; Prof. Faculty of Sciences, Univ. of Paris 1949-76; Hon. Dir. Nat. Centre of Scientific Research 1957; Pres. Soc. Chimique de France 1962-64; Pres. Admin. Council, Inst. Pasteur 1966-70; Pres. French Nat. Cttee. of Chemistry 1972-78, Muséum National d'Histoire Naturelle 1978-; mem. Acad. des Sciences 1960-; Commdr. Legion d'honneur; Grand Officier Ordre national du mérite. *Publications:* Traité de chimie générale, Notions et principes fondamentaux 1939, Les eléments de la chimie 1943, La chimie générale 1945, Dérivés cellulosiques 1947, Les molécules géantes 1948, Chimie macromoléculaire 1972. *Leisure interests:* photography, amateur cinema. *Address:* 10 boulevard Jourdan, 75014 Paris, France. *Telephone:* 589-79-74.

CHAMPIN, Pierre Marcel Henri; French businessman; b. 26 Aug. 1903; ed. Ecole des Sciences Politiques, Paris; fmr. Pres. and Gen. Man. Vallourec, now Hon. Pres.; fmr. Pres. and Gen. Man. Denain-Nord-Est-Longwy, now Hon. Pres.; Dir. Usinor, Metal Deployé, Brossette et Fils and of several other concerns; Officier Légion d'honneur. *Address:* 7 place Chancelier Adenauer, 75016 Paris (Office); 11 bis rue Jean Goujon, 75008 Paris, France (Home).

CHAMSON, André Louis Jules; French writer and museum curator; b. 6 June 1900, Nîmes (Gard); s. of Jean Chamson and Madeleine Aldebert; m. Lucie Mazauric 1924; one d.; ed. Ecole des Chartes. Curator Château de Versailles 1933-39; Curator Petit Palais 1945-59; mem. Acad. Française 1956-; Int. Pres. PEN Club 1956; Dir.-Gen. Archives de France 1959-71; mem. Board of Dirs. ORTF 1964-72; Pres. of Coll. of Curators of Museum of Chantilly 1973-; Hon. Dr. Laval Univ. (Quebec); Grand Croix Légion d'honneur, Croix de guerre, Médaille de la Résistance; many foreign honours. *Publications:* Roux le bandit 1925, les Hommes de la route 1927, Le crime des justes 1928, Héritages 1930, L'année des vaincus 1935, Les quatre éléments 1936, L'auberge de l'abîme 1936, La galère 1938, Le puits des miracles 1945, Le dernier village 1946, L'homme qui marchait devant moi 1948, La neige et la fleur 1951, On ne voit pas le coeur 1952, Le chiffre de nos jours 1954, Languedoc 1956, Adeline Venician 1956, Nos ancêtres, Les Gaulois 1958, Devenir ce qu'on est 1960, Le rendez-vous des espérances 1961, Comme une pierre qui tombe 1964, La petite Odyssée 1965, La superbe 1967, Suite cévenole 1968, Suite pathétique 1969, La tour de Constance 1970, Les taillons ou la terreur blanche 1974, La reconquête 1974, Suite guerrière 1975, Sans peur, un chouan dans les Cévennes 1977. *Leisure interests:* hunting, riding. *Address:* 35 rue Mirabeau, 75016 Paris, France. *Telephone:* 525-53-73.

CHAN, Julius, C.B.E.; Papua New Guinea politician; b. 29 Aug. 1939, Tanga, New Ireland; ed. Maurist Brothers Coll., Ashgrove, Queensland and Univ. of Queensland, Australia. Co-operative Officer, Papua New Guinea Admin. 1960-62; Man. Dir. Coastal Shipping Co. Pty. Ltd.; mem. House of Ass. 1968-75, Deputy Speaker, Vice-Chair. Public Accounts Cttee. 1968-72; Parl. Leader, People's Progress Party 1970-; Minister of Finance and Parl. Leader of Govt. Business 1972-77; Deputy Prime Minister and Minister for Primary Industry 1977-78; Gov. for Papua New Guinea and Vice-Chair. Asian Devt. Bank 1975-77; Fellowship mem. Int. Bankers' Assn. Inc., U.S.A. 1976; Hon. Doctorate (Econ.), Dankook Univ., Seoul 1978. *Address:* P.O. Box 381, Port Moresby, Papua New Guinea. *Telephone:* 211622.

CHANCE, Britton, M.S., PH.D., D.SC.; American biophysicist; b. 24 July 1913, Wilkes Barre, Pa.; s. of Edwin M. and Eleanor (Kent) Chance; m. 1st Jane Earle 1938 (divorced), 2nd Lilian Streeter Lucas 1955; four s. four d., two step s. two step d.; ed. Univ. of Pennsylvania and Cambridge Univ., England. Acting Dir. Johnson Foundation 1940-41; Investigator Office of Scientific Research and Devt. 41; staff mem. Radiation Lab., M.I.T.; Asst. Prof. of Biophysics, Univ. of Pa. 1941-46, Prof. and Dir. Johnson Foundation 1949-, E. R. Johnson Prof. of Biophysics 1949-; Guggenheim Fellow, Nobel and Molteno Inst. 1946-48; scientific consultant, research attaché, U.S. Navy, London 1948; consultant, Nat. Science Foundation 1951-56; President's Scientific Advisory Cttee. 1959-60; NCI Working Group on Molecular Control 1973-; NIAAA Council 1971-75; Vice-Pres. Int. Union Pure and Applied Biophysics 1972-75, Pres. 1975-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc., Royal Acad. of Science, Uppsala, Biochemical Soc., Biophysical Soc., Int. Soc. for Cell Biology, Royal Soc. of Arts, Royal Swedish Acad., Acad. Leopoldina, etc.; Foreign mem. Max-Planck-Inst. für Systemphysiologie und Ernährungsphysiologie, Dortmund; Fellow, Inst. of Radio Engineers; Heineken Prize 1970, Presidential Certificate of Merit 1950, Paul Lewis Award in Enzyme Chemistry, American Chemical Soc. 1950, William J. Morlock Award in biochemical electronics, Inst. of Radio Engineers 1961, Netherlands Biochemical Soc. Award 1966, Keilin Medal 1966, Franklin Medal 1966, Gairdner Award 1972, Festschrift Symposium, Stockholm 1973, Semmelweis Medal 1974, Nat. Medal of Science 1974. *Publications:* Waveforms (with Williams, Hughes, McNichol, Sayre) 1949, Electronic Time Meas-

urements (with Hulsizer, McNichol, Williams) 1949, Enzyme-Substrate Compounds 1951, Enzymes in Action in Living Cells 1955, The Respiratory Chain and Oxidative Phosphorylation 1956, Techniques for Assay of Respiratory Enzymes 1957, Energy-Linked Functions of Mitochondria 1963, Rapid Mixing and Sampling Techniques in Biochemistry 1964, Control of Energy Metabolism 1965, Hemes and Hemoproteins 1966, Probes of Structure and Function of Macromolecules and Enzymes 1972. *Leisure interests:* yacht sailing and cruising, amateur radio. *Address:* Johnson Research Foundation, Richards Building D-501 G4, University of Pennsylvania, Philadelphia, Pa. 19174 (Office); 4014 Pine Street, Philadelphia, Pa. 19104, U.S.A. (Home). *Telephone:* 215-243-7159.

CHANCELLOR, Sir Christopher (John), Kt., C.M.G., M.A.; British business executive; b. 29 March 1904, Cobham, Surrey; s. of Sir John and Lady Chancellor; m. Sylvia Mary Paget 1926; two s. two d.; ed. Eton Coll., and Trinity Coll., Cambridge; joined Reuters 1930, Gen. Man. 1944-59; Chair. Odhams Press Ltd. 1960-61, Daily Herald (1929) Ltd. 1960-61, The Bowater Paper Corpn. 1962-69; Vice-Pres. Nat. Council of Social Service 1959-71; Chair. Pilgrims Soc. 1959-68; Dir. Madam Tussaud's Ltd. (fmr. Chair.), Bristol Evening Post Ltd.; mem. of Council, Univ. of Bath; Trustee, American Museum in Britain. *Address:* Hill Lodge, 14 Hillsleigh Road, London, W.8, England.

CHANCELLOR, John; American newspaperman and TV compère; b. 14 July 1927; ed. Univ. of Illinois. Reporter, Chicago Sun-Times; NBC news staff 1950-65, corresp. Chicago, Vienna, London, Moscow, Brussels, Berlin; compère NBC TV Programme To-day 1961-62; Producer of Special Programmes 1962-63; Head of NBC Brussels Bureau to cover European Common Market July 1963-64; White House Corresp. of NBC 1964-65; Dir. Voice of America 1966-67; network nat. affairs corresp., NBC 1967-; Principal Reporter NBC Nightly News 1970-. *Address:* c/o NBC News, 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A.

CHAND, Khub, B.A.; Indian diplomatist and international development consultant; b. 16 Dec. 1911, Khurd (Jhelum); m. Nirmal Singh 1948; ed. Univ. of Delhi and Oriel Coll., Oxford; joined ICS 1935; Asst. and later Joint Magistrate, Shahjahanpur (U.P.) 1935-37; Joint and later Additional District Magistrate, Kanpur (U.P.) 1937-39; Under Sec. to Govt. of India, Dept. of Defence and Sec. Indian Soldiers' Board, later Asst. Financial Adviser, Mil. Finance 1939-43; District Magistrate, Azamgarh (U.P.) 1943-45; Regional Food Controller, U.P. 1945-47; Deputy Sec. Ministry of Defence 1947-48; Head Indian Mil. Mission in Germany, with rank of Major-Gen., Indian Army 1948-50; Head of Indian Mission Allied High Comm. for Germany 1949-50; Deputy High Commr. for India in Pakistan 1950-52, Acting High Commr. 1950-51; Minister to Iraq April 1952-55, concurrently Minister to Jordan 1954-55; Joint Sec. to Govt. of India, Ministry of External Affairs 1955-57; Amb. to Italy 1957-60, concurrently Minister to Albania; High Commr. for India in Ghana and Sierra Leone, Commr. in Nigeria and Amb. to Liberia, Guinea and Mali 1960-62; Amb. to Sweden and Finland 1962-66; Leader of Indian delegation to 41st session of ECOSOC 1966; Indian rep. on Ad Hoc Cttee. of Narcotics Comm. of UN; Amb. to Lebanon, Jordan, Kuwait and High Commr. in Cyprus 1966-67; Amb. to Fed. Repub. of Germany 1967-70; mem. Exec. Board, Indian Council of World Affairs 1972, Vice-Pres. 1974; mem. for American and W. European Studies, Cttee. of Jawaharlal Nehru Univ. School of Int. Studies 1974-; Pres. Fed. of Indo-German Socs. in India 1976-. *Leisure interests:* travel, bridge. *Address:* c/o 1/8A Shanti Niketan, New Delhi 21, India. *Telephone:* 672473.

CHANDAVIMOL, Abhai, M.A. (CANTAB.); Thai educationist; b. 16 Feb. 1908, Chanthaburi; s. of Meng Chandavimol and Wann Punyasthiti; m. Tongkorn Punyasthiti 1942; three s. one d.; ed. Suan Kularb School, Bangkok, Imperial Service Coll., Windsor, Gonville and Caius Coll., Cambridge, Inner Temple, London. Teacher 1925-28, 1935-36; Sec. Dept. of Physical Educ. 1936-43; Chief Private School Div. 1943-47; Asst. Dir.-Gen. Dept. of Gen. Educ. 1947-51; Dir.-Gen. Dept. of Physical Educ. 1951-52, Dept. of Elementary and Adult Educ. 1952-61; Under-Sec. of State for Educ. 1961-68; Deputy Minister of Educ. 1970-71, Minister 1972-74; Senator 1975-76; mem. Exec. Cttee. Boy Scouts of Thailand 1952–; elected Boy Scouts World Cttee. 1965-71; elected Chair. Far East Scouts advisory Cttee. 1966-68; Hon. Ed. D. (Chian Ma. Univ.) 1978; Order of Crown of Thailand, Order of the White Elephant, Bronze Wolf Award of World Scout Cttee. *Publications:* translations of Lord Baden-Powell's books into Thai. *Leisure interests:* scouting, gardening, orchid cultivation, golf. *Address:* 85 Rajatapan Lane, Makkasan Bangkok 4, Thailand. *Telephone:* 281-5912.

CHANDLER, Colby H.; American photographic company executive; b. 1925; joined Kodak Park Div. of Eastman Kodak Co. as quality control eng. in colour print and processing org. 1950, Gen. Man. of Div. 1971; Dir. of Photographic Programme Devt. for U.S. and Canadian Photographic Div. 1971-73, Dir. of Special Projects 1973, Gen. Man. of Div. 1974-75; mem. Board of Dirs. 1974; Exec. Vice-Pres. 1974-76, Pres. of Eastman Kodak Co. Jan. 1977-. *Address:* Eastman Kodak Company, 343 State Street, Rochester, N.Y. 14650, U.S.A.

CHANDLER, George, M.A., PH.D., F.L.A., F.R.HIST.S.; Australian (b. British) librarian; b. 2 July 1915, Birmingham; s. of late William Chandler and Mrs. F. W. Chandler; m. Dorothy Lowe 1937; one s.; ed. Central Grammar School, Birmingham, Birmingham and Midland Inst., Leeds Coll. of Commerce and Univ. of London; with Birmingham Public Libraries 1931-37, Leeds Public Libraries 1937-46; Borough Librarian and Curator, Dudley 1947-50; Deputy City Librarian, Liverpool 1950-52, City Librarian 1952-74; est. Int. Library 1957, American Library 1959, Commonwealth Library 1959; organizer of int. literary and historical exhbns. of books, manuscripts and prints; External Examiner, Sheffield Univ.; Pres. Soc. of Municipal and County Chief Librarians 1962-70; Chair. Exec. Cttee. of the Library Assn. 1965-70; mem. Library Advisory Council for England and Wales 1965-72; Dir. Ladsirlac Technical Information Centre; Editor, Int. Series of Monographs on Libraries and Information Science, Editor Int. Bibliographical and Library Surveys 1971; Pres. Int. Assn. of Metropolitan City Libraries 1967-71; mem. Organizing Cttee., British Library 1971-73, British Library Board 1973-74; Dir.-Gen. Nat. Library of Australia 1974-; Hon. Editor Int. Library Review 1969-; Pres. Library Assn. 1971. *Publications:* Dudley 1949, William Roscoe 1953, Liverpool 1957, Liverpool Shipping 1960, Liverpool under James I 1960, How to Find Out 1963, 1967, 1968, 1973, The Grasshopper and the Liver Bird 1964, Liverpool under Charles I 1965, Libraries in the Modern World 1965, Four Centuries of Banking 1964, 1968, How to find out about Literature 1968-, Libraries in the East 1971, International Librarianship 1972, Victorian and Edwardian Liverpool and the North West 1972, Libraries, Bibliography and Documentation in the Soviet Union 1972, Social History of Liverpool 1972, Merchant Venturers 1973, Victorian and Edwardian Manchester 1974. *Leisure interests:* travel, walking, country cottage, dancing, foreign languages. *Address:* c/o National Library of Australia, Canberra, A.C.T., Australia.

CHANDLER, Otis; American newspaper executive; b. 23 Nov. 1927, Los Angeles; s. of Norman Chandler and Dorothy Buffum Chandler; m. Marilyn Jane Brant 1951; three s. two d.; ed. Andover Acad., Mass., and Stanford Univ.; Trainee, Times Mirror Co. 1953, Asst. to Pres. (assigned to Mirror-News) 1957, Marketing Man., Los Angeles Times 1958-60, Publr., Los Angeles Times 1960-78, Publr. and Chief Exec. Officer 1978-; Vice-Pres. Times Mirror Co. 1961-, Dir. 1962, Sr. Vice-Pres. 1966-; Vice-Chair. Board Times Mirror Co. 1968. *Leisure interests:* board surfing, hunting, fishing, photography, tennis, water skiing, track and field, sports cars. *Address:* Times Mirror Square, Los Angeles, Calif. 90053 (Office); 1048 Oak Grove Place, San Marino, Calif., U.S.A. (Home).

CHANDRA, Avinash; Indian artist; b. 28 Aug. 1931, Simla; ed. Delhi Polytechnic, Delhi; on staff of Delhi Polytechnic, Delhi 1953-56; in London 1956-; executed glass mural for Pilkington Brothers' Head Office, St. Helens, Lancs and fibreglass mural for Indian Tea Centre, London 1964; Gold Medal, Prix Européen, Ostend 1962; John D. Rockefeller Third Fund Fellowship 1965. Works in following collections: Nat. Gallery of Modern Art, New Delhi, Tate Gallery, London, Victoria and Albert Museum, London, Arts Council of Great Britain, London, Ashmolean Museum, Oxford, Ulster Museum, Belfast, City Art Gallery, Birmingham, Gulbenkian Museum, Durham, Musée National d'Art Moderne, Paris, Whitworth Art Gallery, Manchester, Museum of Modern Art, Haifa, Punjab Museum, Chandigarh, etc.; one-man exhbns. in Srinagar, New Delhi, Belfast, London, Oxford, Paris, Bristol, Arnhem, Amsterdam, Zürich, Copenhagen, Stockholm, Chicago, Toronto, Geneva, etc. *Address:* 24 Willoughby Road, Hampstead, London, N.W.3, England.

CHANDRA, Satish, M.A., B.SC.; Indian business exec. and politician; b. 1917; ed. S.M. Coll., Chandausi, Govt. Agricultural Coll. Kanpur, and Bareilly Coll., Bareilly (Agra Univ.). Indian Nat. Congress 1936; mem. Indian Constituent Ass. 1948-50, Provisional Parl. 1950-52, Lok Sabha 1952-62; Parl. Sec. to Prime Minister 1951-52; Union Deputy Minister for Defence 1952-55, for Production 1955-57, for Commerce and Industry 1957-62; Chair. Indian Airlines Corpn. and Dir. Air-India 1963, 1964; Chair. British India Corpn. Ltd., The Elgin Mills Co. Ltd., Cawnpore Textiles Ltd., Cawnpore Sugar Works Ltd., Champarun Sugar Co. Ltd., Saran Eng. Co. Ltd. 1962-; Dir. other cos. *Address:* Chitrakut, Parbati Bagla Road, Kanpur, U.P., India.

CHANDRACHUD, Yeshwant Vishnu, LL.B.; Indian judge; b. 12 July 1920; practised at Bombay bar 1943-61; Govt. Pleader, Bombay High Court 1958-61, Judge 1961-72; Judge Supreme Court 1972-, Chief Justice Feb. 1978-. *Address:* Supreme Court, Tilak Marg, New Delhi 110001, India.

CHANDRASEKHAR, Bhagwat Subrahmanya, B.SC.; Indian cricketer and bank executive; b. 17 May 1945, Mysore; m. Sandhya Rajarao 1975; one s.; ed. Nat. Educ. Soc., Bangalore; right-arm leg-spin, googly bowler; bowling arm withered by attack of polio at age of 6; debut in First Class Cricket 1963, Test Cricket 1964; had taken 857 First Class wickets and 198 Test wickets by Aug. 1978; plays for Karnataka in Ranji Trophy competition (nat. championship of India); Arjuna Award; Padma Shri 1972. *Leisure interests:* badminton, Indian classical music. *Address:* 571 31st Cross, 4th Block, Jayanagar, Bangalore 560011, India. *Telephone:* 41268.

CHANDRASEKHAR, Sripati, M.A., M.LITT., M.SC., PH.D.; Indian economist and demographer; b. 22 Nov. 1918, Rajahmundry; s. of Prof. Sripati Sarangapanni and Mrs. Rajamma Sarangapanni; m. Dorothy Anne Downes 1947; three d.; ed. Univ. of Madras and Columbia, New York and Princeton Univs. Visiting Lecturer, Univ. of Pa. and Asia Inst., New York 1944-46; Prof. of Econs., Annamalai Univ. 1947-50; Dir. Demographic Research, UNESCO, Paris 1947-49; Prof. of Econs. and Head of Dept., Baroda Univ. 1950-53; Nuffield Fellow, London School of Economics 1953-55; Dir. Indian Inst. for Population Studies 1956-67; mem. Rajya Sabha 1964-70; Minister of State for Health and Family Planning 1967-Nov. 1967; Minister of State in Ministry of Health, Family Planning and Urban Devt. 1967-70; Research Prof. of Demography, Univ. of Calif.; Visiting Fellow Battelle Research Centre ("Think Tank") Seattle 1971-72; Distinguished Visiting Prof. of Sociology, Calif. State Univ., San Diego 1972-74; Prof. of Demography and Public Health Univ. of Calif., Los Angeles, 1974-75; Vice-Chancellor Annamalai Univ., Chidambaram, South India 1975-; Editor Population Review; Hon. D.Litt. (Redlands Univ., Kurukshetra Univ.); Hon. LL.D. (Punjabi Univ.); Hon. M.D. (Budapest); Hon. D.Sc. (Univ. of Pacific); numerous awards. *Publications:* India's Population 1946, Census and Statistics in India 1947, Indian Emigration 1948, Hungry People and Empty Lands 1952, Population and Planned Parenthood in India 1955, Infant Mortality in India 1959, China's Population 1959, Communist China Today 1961, Red China; An Asian View 1962, A Decade of Mao's China (ed.) 1963, American Aid and India's Economic Development 1965, Asia's Population Problems 1967, Problems of Economic Development 1967, India's Population: Fact, Problem and Policy 1968, Infant Mortality, Population Growth and Family Planning in India 1972, Abortion in a Crowded World: the Problem of Abortion with Special Reference to India 1974, Population and Law in India 1976, Ananda K. Coomaraswamy, A Critical Appreciation 1977. *Leisure interests:* reading, especially detective stories, European classical music. *Address:* Vice-Chancellor's Lodge, Annamalainagar, Tamil Nadu, India.

CHANDRASEKHAR, Subrahmanyan, PH.D., SC.D., F.R.S.; American (b. Indian) university professor; b. 19 Oct. 1910, Lahore; m. Lalitha Doraiswamy 1936; ed. Presidency Coll., Madras, and Cambridge Univ. Fellow of Trinity Coll., Cambridge 1933-37; Research Assoc. Univ. of Chicago 1937-38, Asst. Prof. 1938-41, Assoc. Prof. 1942-43, Prof. 1944-46; Distinguished Service Prof. of Theoretical Astrophysics 1947-52, Morton D. Hull Distinguished Service Prof. of Theoretical Astrophysics 1947-52, Morton D. Hull Distinguished Service Prof. of Theoretical Astrophysics 1952-; Man. Editor Astrophysical Journal 1952-71; mem. American Philosophical Society, American Academy of Arts and Sciences, N.A.S., Royal Soc. London; Bruce Gold Medal of Astronomical Soc. of the Pacific 1952; Gold Medal, Royal Astronomical Soc. 1953; Rumford Medal, American Acad. of Arts and Sciences 1957; Royal Medal, Royal Soc., London 1962; Nat. Medal of Science, U.S.A. 1967; Nehru Memorial Lecture 1968; Draper Medal, U.S. Nat. Acad. of Sciences 1971; Heineman Prize, American Physical Soc. 1974. *Publications:* Introduction to the Study of Stellar Structure 1939, Principles of Stellar Dynamics 1942, Radiative Transfer 1950, Hydrodynamic and Hydromagnetic Stability 1961, Ellipsoidal Figures of Equilibrium 1969. *Address:* Laboratory for Astrophysics and Space Research, 933 East 56th Street, Chicago, Ill. 60637, U.S.A. *Telephone:* 312-753-8562.

CHANDRASEKHARAN, Komaravolu, PH.D.; Indian mathematician; b. 21 Nov. 1920, Masulipatam, India; m. A. Sarada 1944; two s.; ed. Presidency Coll., Madras, and Inst. for Advanced Study, Princeton. Prof. Eidgenössische Technische Hochschule, Zürich; Sec. Int. Mathematical Union 1961-66, Pres. 1971-74; Vice-Pres. Int. Council of Scientific Unions 1963-66, Sec.-Gen. 1966-70; mem. Scientific Advisory Cttee, to Cabinet, Govt. of India 1961-66; Fellow Nat. Inst. of Sciences of India, Indian Acad. of Sciences; Foreign mem. Finnish Acad. of Science and Letters 1975; Padma Shri 1959, Shanti Swarup Bhatnagar Memorial Award for Scientific Research 1963, Ramanujan Medal 1966. *Publications:* Fourier Transforms (with S. Bochner) 1949, Typical Means (with S. Minakshisundaram) 1952, Lectures on the Riemann Zeta-function 1953, Analytic Number Theory 1969, Arithmetical Functions 1970. *Leisure interests:* painting, English literature, music. *Address:* Eidgenössische Technische Hochschule, 8092 Zürich, Rämistrasse 101 (Office); Hedwigstrasse 29, 8032 Zürich, Switzerland (Home). *Telephone:* 53-96-86.

CHANDY, Kanianthra Thomas, M.A., LL.M.; Indian business executive; b. 13 Jan. 1913; s. of K. I. Thomas and Mrs. A. Thomas; m. 1938; three s. two d.; ed. London Univ.; in legal practice; later joined Hindustan Lever Ltd., Dir. 1956-61; Dir. Indian Inst. of Man., Calcutta 1962-67; Chair. Food Corpn. of India 1966-68; Chair. Hindustan Steel Ltd. 1968-72; Chair. Kerala State Industrial Devt. Corpn., Nat. Productivity Council of India; Vice-Chair. Kerala State Planning Board; Dir. numerous govt. and joint sector cos.; fmr. Dir. Int. Iron and Steel Inst. Brussels; fmr. Chair. Indian Inst. of Technology; fmr. mem. Univ. Grants Comm. *Address:* P.O. Box 105, Trivandrum 695003, Kerala, India.

CHANG CHEN; Chinese politician. Fifth Minister of Machine-Building March 1978-. *Address:* People's Republic of China.

CHANG CHEN; Chinese government official. Dir., PLA Gen. Logistics Dept. 1978-. *Address:* People's Republic of China.

CHANG CHIANG-LIN; Chinese army officer. Regimental Commdr. 1948; Deputy Commdr. Tsinghai Mil. District, PLA 1965, Commdr. 1968-78; First Vice-Chair. Tsinghai Revolutionary Cttee. 1967; Alt. mem. 9th Cen. Cttee. CCP 1969; Second Sec. CCP Tsinghai 1971; Alt. mem. 10th Cen. Cttee. CCP 1973. *Address:* People's Republic of China.

CHANG CH'IH-MING; Chinese army officer. Political Commissar, 4th Field Army, PLA 1950; Political Commissar in Gen. Logistics Dept., Central-South Mil. District, PLA 1954; re-assigned to Gen. Mil. Org. 1954; Lieut.-Gen. PLA 1955; Pres. Logistics Inst., PLA 1960; Deputy Dir., Gen. Logistics Dept., PLA 1965, Political Commissar 1967-. *Address:* People's Republic of China.

CHANG CH'ING-FU; Chinese government official. Vice-Minister of Forestry 1956-58; Minister of Finance 1975-; mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

CHANG CHING-YAO; Chinese army officer. Commander Kwangtung Mil. District, PLA 1973-. *Address:* People's Republic of China.

CHANG CH'UN-CHI'AO; Chinese party official; b. circa 1911. Dir. East China Gen. Branch, New China News Agency 1950; Dir. Liberation Daily, Shanghai 1954; Alt. Sec. CCP Shanghai 1964, Sec. 1965; Chair. Shanghai Revolutionary Cttee. 1967; Deputy Head Cen. Cultural Revolution Group 1967; First Political Commissar Nanking Mil. Region, PLA 1967; mem. Politburo, 9th Cen. Cttee., CCP 1969; First Sec. CCP Shanghai 1971; mem. Standing Cttee., Politburo, 10th Cen. Cttee. of CCP 1973; Vice-Premier State Council 1975; Dir. Gen. Political Dept., PLA 1975; arrested Oct. 1976, expelled from CCP July 1977. *Address:* People's Republic of China.

CHANG CHUNG; Chinese army officer. Commander Kansu Mil. District, PLA 1967-78; Vice-Chair. Kansu Revolutionary Cttee. 1968; Sec. CCP Kansu 1972; Exec. Chair. 5th Nat. Cttee. CPPCC; Vice-Chair. 5th Nat. Cttee. CPPCC 1978-. *Address:* People's Republic of China.

CHANG DAI-CHIEN; Chinese painter; b. 1 April 1899; ed. Chuich'ing School, Chungking and under Li Ch'ing, Shanghai; mem. Cttee. first Nat. Exhbn. of Fine Arts 1929; Prof. Central Univ. Nanking 1936; moved to Argentina 1952; first one-man exhbn. Peking 1934, then Shanghai 1936, Chungking 1939, 1940, Chengtu 1943, Shanghai 1946, 1947, Hong Kong 1948, 1962, New Delhi and Hyderabad 1950, Buenos Aires 1952, Tokyo 1955, 1956, Museum of Modern Art, Paris 1956, Salon Nationale, Paris 1960, Brussels 1960, Athens 1960, Madrid 1960, Geneva 1961, São Paulo 1961, Singapore 1963, Kuala Lumpur 1963, New York 1963, Cologne 1964, Grosvenor Gallery, London 1965; represented at Paris Exhbn. of Chinese Painting 1933, London 1935, UNESCO Exhbn., Paris 1946; Gold Medal, Int. Council of Fine Arts, New York 1958. Major works: The Lotuses, Jeu-de-Paume Museum, Paris 1933, copied two hundred frescoes, caves of Tun-huang 1940, Giant Lotus 1945, twelve major works, Perm. Exhbn. Contemporary Chinese Art, Cernuschi Museum 1959, Lotus painting, Museum of Modern Art, N.Y. 1961.

CHANG DO YUNG, General; Korean army officer; b. 1923; ed. Tongyang Univ., Japan; fought in Japanese army in Second World

War; further educ. in U.S.A. 1953; Deputy C.-in-C. of Gen. Staff, S. Korean Army 1956, later Commdr. Second Army; C.-in-C. of General Staff; Minister of Defence May-June 1961, Chair. Supreme Council of Nat. Reconstruction and Prime Minister May-June 1961; under house arrest July 1961; sentenced to death Jan. 1962, sentence commuted, later released 1962. *Address:* Seoul, Republic of Korea.

CHANG HAI-T'ANG; Chinese army officer. Deputy Chief of Staff Liaoning Mil. District, PLA 1959, Deputy Commdr. 1960, Commdr. 1972- PLA 1975-; Vice-Chair. Yunnan Revolutionary Cttee.; mem. Standing Cttee. Yunnan CCP Cttee.; Maj.-Gen. PLA 1959; Vice-Chair. Liaoning Revolutionary Cttee. 1972. *Address:* People's Republic of China.

CHANG HSIANG-SHAN; Chinese party official; since 1959 leading mem. of various Depts. of Cen. Cttee.; Dir.-Gen. Cen. Broadcasting Admin.; Deputy Dir. Int. Liaison Dept. of Cen. Cttee.; Vice-Pres. China-Japan Friendship Assen. *Address:* People's Republic of China.

CHANG HSIU-LUNG; Chinese soldier. Deputy Commdr. Chekiang Mil. District, PLA 1966-72; Commdr. Hupeh Mil. District, PLA 1972-. *Address:* People's Republic of China.

CHANG JEN-HSIA; Chinese artist, poet and art historian b. 31 Jan. 1904, Anwhei, N. China; m. 1st Lee-Lan 1923 (deceased), one d.; m. 2nd Maeno Motoko 1936 (dissolved), one s.; m. 3rd Go So-Fen 1962, one s. one d.; has lectured at Int. Univ. of Santiniketan, India, at Central Univ., Chungking, and at Coll. of Oriental Studies, Kunming; Prof. of History of Art, Central Acad. of Fine Arts. *Publications:* Forget-Me-Not 1932, Harvest 1940, Mongolian Love Songs 1944, The Relationship in Art Between China and India 1955, The Classical Art of China 1956, A Study of Han Dynasty Paintings 1955, The Art of the Ajunta Caves 1956, Oriental Art 1956, An Art History of India and South East Asia 1964, The Relationship in Art Between China and Japan 1964, A Study of Silk Art. *Address:* Central Academy of Fine Arts, Peking (Office); Dong Dan, Xi-Zong-Bu Hu Tong No. 51, Peking, People's Republic of China (Home).

CHANG LI-HSIUNG; Chinese government official. Political Commissar, Kiangsi Mil. District 1978-. *Address:* People's Republic of China.

CHANG P'ING-HUA; Chinese party official; b. 1903, Hunan. Political Commissar in 120th Div. 1947; Sec. CCP Wuhan 1949-52; Third Sec. CCP Hupeh 1955-56, Second Sec. 1956, Sec. 1957-59; Alt. mem. 8th Cen. Cttee. of CCP 1956; First Sec. CCP Hunan 1959-67; First Political Commissar Hunan Mil. District, PLA 1960; Sec. Cen.-South Bureau, CCP 1966-67; Deputy Dir. Propaganda Dept., CCP 1966; criticized and removed from office during Cultural Revolution 1967; Vice-Chair. Shansi Revolutionary Cttee. 1971; Sec. CCP Shansi 1971; Sec. CCP Hunan 1973, Second Sec. 1974-; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; mem. Standing Cttee. 5th Nat. People's Congress 1978; Dir. CCP Cen. Cttee. Propaganda Dept. 1978-. *Address:* People's Republic of China.

CHANG SHU-CHIH; Chinese army officer. Commdr. Honan Mil. District, PLA 1964-78; Deputy Commdr. Wuhan Mil. Region, PLA 1970; Sec. CCP Honan 1971; mem. 10th Cen. Cttee. of CCP 1973. *Address:* People's Republic of China.

CHANG TA-CHIH; Chinese soldier; b. 1911, Shensi Province; ed. China Workers' and Peasants' Red Army Univ., Yenan. Dir., Public Security Dept. of North-West Mil. and Admin. Cttee. 1952; Commdr. Lanchow Mil. Region, PLA 1954-72; Alt. mem. 8th Cen. Cttee. of CCP 1956, mem. 9th Cen. Cttee. 1969; Commdr. PLA Artillery Corps 1972-. *Address:* People's Republic of China.

CHANG TING-CHENG; Chinese government official and lawyer. Chief Procurator; Vice-Chair. Standing Cttee. 4th Nat. People's Congress, 5th Nat. People's Congress 1978; a Perm. Chair. Presidium 4th Congress; Exec. Chair. Presidium 5th Nat. People's Congress 1978. *Address:* People's Republic of China.

CHANG TING-FA; Chinese air force officer and party official. Deputy Chief of Staff, PLA Air Force 1958, Deputy Commdr. 1964; criticized and removed from office during Cultural Revolution 1967; Deputy Commdr. Air Force 1973; Political Commissar 1976; mem. Politburo, 11th Cen. Cttee. of CCP 1977; Commdr. PLA Air Force 1978-. *Address:* People's Republic of China.

CHANG TS'AI-CH'IEN; Chinese army officer. Guerilla leader in Hupeh, Honan, Anhwei and Hunan 1946; Chief of Staff Hupeh Mil. District, PLA 1950; Lieut.-Gen. PLA 1958; Deputy Commdr. Nanking Mil. Region, PLA 1958-70; mem. 9th Cen. Cttee. of CCP 1969, 10th Cen. Cttee. 1973, 11th Cen. Cttee. 1977; Deputy Chief of Staff PLA 1971-. *Address:* People's Republic of China.

CHANG TSUNG-HSUN; Chinese military officer; b. 1898, Shensi; ed. Whampoa Mil. Acad.; graduated 1925; Div. Commdr. Red Army 1929; Chief of Staff, 4th Front Army on "Long March" 1934; Brigade Commdr. 1937; Alt. mem. 7th Central Cttee. 1945; Deputy Commdr. First Field Army, PLA 1949-54, Deputy Chief of Gen. Staff 1954-75; Alt. mem. 8th Cen. Cttee. CCP 1956; visited Eastern Europe 1959; Dir., Gen. Logistics Dept., PLA 1975-78. *Address:* People's Republic of China.

CHANG WEI-HSUN; Chinese civil servant and United Nations official; fmrly. in Foreign Relations Dept., Ministry of Health, Peking; Asst. Dir.-Gen. World Health Org. (WHO), in charge of family health and health services divs. 1973-79. *Address:* c/o Ministry of Foreign Affairs, Peking, People's Republic of China.

CHANG WEN-PI; Chinese soldier. Commdr., Chekiang Mil. District, PLA 1973-78. *Address:* People's Republic of China.

CHANGUFU, Lewis; Zambian politician; b. 1927, Kasama; ed. locally and by correspondence; entered politics 1950; fmr. mem., African Nat. Congress 1958; restricted 1959; attended course in public relations and leadership, U.S.A.; Parl. Sec. to Prime Minister's Office 1964-65; Minister of Information and Postal Services 1965-66; Nat. Chief Trustee, United Nat. Independence Party (UNIP); Minister of Home Affairs 1966-67; Minister of Labour 1967-68; Minister of Labour and Social Services Dec. 1968, later Minister of Transport; Minister of Home Affairs 1970-73; Dir. of cos. 1974-. *Address:* P.O. Box 3450, Lusaka, Zambia.

CHANNING, Carol; American actress; b. 31 Jan. 1921. Critics' Circle Award for Lend an Ear; Tony Award for Hello Dolly 1963, Golden Globe Award for Best Supporting Actress, Thoroughly Modern Millie 1967, Tony Award 1968. Stage productions include: No for an Answer, Let's Face It, So Proudly We Hail, Lend an Ear, Gentlemen Prefer Blondes, Wonderful Town, The Vamp, Hello Dolly, Lorelei. *Films include:* The First Traveling Saleslady 1956, Thoroughly Modern Millie 1967. *Address:* 8749 Sunset Boulevard, Hollywood, Calif. 90046, U.S.A.

CHAO FENG; Chinese government official. Leader, PLA unit 6011, 1967; Alt mem. CCP 9th Cen. Cttee. 1969; Alt mem. CCP 10th Cen. Cttee. 1973; Commdr. Shantung Mil. District 1978-. *Address:* People's Republic of China.

CHAO HSIEN-SHUN; Chinese soldier. Commdr., Heilungkiang Mil. District, PLA 1976-. *Address:* People's Republic of China.

CHAO HSIN-CHU; Chinese party official. Sec., CCP Hupeh 1957-65; Vice-Gov. Hupeh 1958-64; Vice-Minister of Culture 1965; criticized and removed from office during Cultural Revolution 1966; rehabilitated as a "leading cadre" in Inner Mongolia 1972; Vice-Chair. Provincial Revolutionary Cttee. and Secretary CCP, Hupeh 1973, Chair. Revolutionary Cttee and First Sec., Hupeh 1975-78; mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

CHAO HSIN-JAN; Chinese soldier. Vice-Chair. Kwangsi Provincial Revolutionary Cttee. 1972; Commdr. Kwangsi Mil. District, PLA 1972-. *Address:* People's Republic of China.

CHAO TS'ANG-PI; Chinese government official. Minister of Public Security 1977-; mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

CHAO TZU-YANG; Chinese party official. Sec.-Gen. S. China Sub-bureau, CCP 1950-54, Third Sec. 1954-55; Third Deputy Sec. CCP Kwangtung 1955, Sec. 1962, First Sec. 1965-67; Political Commissar Kwangtung Mil. District, PLA 1964; Sec. Cen.-South Bureau, CCP 1965-67; criticized and removed from office during Cultural Revolution 1967; Vice-Chair. Inner Mongolia Revolutionary Cttee. 1971; Sec. CCP Inner Mongolia 1971, CCP Kwangtung 1972; Vice-Chair. Kwangtung Revolutionary Cttee. 1972; mem. 10th Cen. Cttee. of CCP 1973; Alt. mem. Politburo, 11th Cen. Cttee. of CCP 1977; First Sec. CCP Kwangtung 1974; Chair. Kwangtung Revolutionary Cttee. 1974; First Sec. Szechuan CCP Cttee. 1975; Chair. Szechuan Revolutionary Cttee. 1975; Exec. Chair. 5th CPPCC Nat. Cttee.; Vice-Chair. 5th CPPCC Nat. Cttee. 1978-; First Political Commissar Chengtu Mil. District, PLA 1978. *Address:* People's Republic of China.

CHAO WEN-CHIN; Chinese government official. Vice-Commdr. 9th Regiment Pinghsi Advance Army, 8th Route Army 1938; Vice-Commdr. PLA Tibet Mil. Region 1962; Deputy. Commdr. PLA Chengtu Units 1978-; Commdr. Szechuan Mil. Dist. PLA 1978-. *Address:* People's Republic of China.

CHAPELAIN-MIDY, Roger; French painter; b. 24 Aug. 1904, Paris; s. of Maurice and Hélène Chapelain-Midy; m. Ginette Pierre-Alype 1935; two s.; ed. Lycée Louis le Grand, Paris; pictures hung in Musée d'Art Moderne and Musée des Beaux Arts, Paris, in museums in Boulogne, La Rochelle, Lyon, Saint-Etienne, Cambrai, Bordeaux, Dijon, Algiers, Tunis, etc.; also in Venice, Amsterdam, Brussels, Buenos Aires, Cairo, São Paulo and London; awards include Carnegie Prize 1938; Prix de l'Ile de France 1952; Prix de la Biennale de Menton 1953; Grand Prix de la Ville de Paris 1955; Prix du Costume de Théâtre at Int. Biennale São Paulo 1961; Officier de la Légion d'honneur; Commdr. des Arts et des Lettres; mem. Acad. Royale de Belgique. *Works include (in addition to pictures):* murals in the theatre of the Palais de Chaillot, the Inst. Nat. Agronomique, and on the steamships Provence, Bretagne, Jean Laborde, France; and theatrical costumes and decors, in particular for Les Indes Galantes 1952, Die Zauberflöte (Mozart) for the Théâtre National de l'Opéra 1954, and La Répétition (ballet) for Cologne Opera 1963, Les Femmes Savantes for the Comédie Française 1972. *Leisure interests:* everything related to gardens, plants, and nature in general. *Address:* 68 rue Lhomond, Paris 5e, France. *Telephone:* 707-27-90.

CHAPIN, Roy Dikeman, Jr., A.B.; American automobile executive; b. 21 Sept. 1915; s. of Roy D. Chapin; m. Loise Chapin; ed. Yale Univ; held various positions with Hudson Motor Car Co. and Hudson Sales Corpn. 1938-54; Asst. Sales Man. Hudson Div., American Motors Corpn. 1952-54; Asst. Treas. and Dir. American Motors Corpn. 1954-55, Treas. 1955, Vice-Pres. 1956-60, Exec. Vice-Pres., int. operations 1960-66, Exec. Vice-Pres. and Gen. Man. 1966-67, Chair. of Board and Chief Exec. Officer 1967-77, Chair. 1977-78, Chair. and Dir. American Motors (Canada) Ltd.; Dir. Rambler Motors Ltd., American Natural Resources Co., Whirlpool Corpn. and other cos. *Address:* American Motors Corporation, 27777 Franklin Road, Southfield, Mich. 48034, U.S.A.

CHAPIN, Schuyler Garrison; American musical impresario; b. 13 Feb. 1923, New York; s. of L. H. Paul Chapin and Leila H. Burden; m. Elizabeth Steinway 1947; four s.; ed. Longy School of Music and Harvard Coll.; Spot Sales, NBC Television, New York 1947-53; Gen. Man. Tex and Jinx McCrary Enterprises, New York 1953; Booking Dir. Judson O'Neill and Judd Div., Columbia Artists Man. 1953-59; CBS Dir. Masterworks, Columbia Records Div. 1959-62, Vice-Pres. Creative Services 1962-63; Vice-Pres. Programming, Lincoln Center for the Performing Arts Inc. 1964-69; Exec. Producer, Amberson Productions 1969-72; Gen. Man. Metropolitan Opera Assn. Inc. 1972-75; Dean of Faculty of Arts, Columbia Univ., New York 1976; Trustee, Naumburg Foundation 1962-; Bagby Music Lovers Foundation 1959-, mem. Board of Dirs., Amberson Enterprises Inc. 1972-; mem. Coffee House, The Century Assn.; Trustee, The Carnegie Hall Soc., Richard Tucker Music Foundation, The Stuart Ostrow Foundation; Hon. L.H.D. (New York Univ. and Hobart-William Smith Colls.); Hon. Litt.D. (Emerson Coll.) 1976; Air Medal 1945; N.Y. State Conspicuous Service Cross 1951; Christopher Award 1972, Emmy Awards 1972, 1976. *Publications:* Musical Chairs, A Life in the Arts 1977. *Leisure interests:* reading, tennis, bridge, swimming, gentle sailing. *Address:* 901 Lexington Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* (212) RE 7-1761.

CHAPLIN, Arthur Hugh, C.B., B.A., F.L.A.; British librarian; b. 17 April 1905, Bexhill; s. of Rev. H. F. Chaplin and Florence B. Lusher; m. Irene Marcousé 1938; ed. Univ. Coll., London; Asst. Librarian, Reading Univ. 1927-28, Queen's Univ. Belfast 1928-29; Asst. Keeper, Dept. of Printed Books, British Museum 1930-55, Deputy Keeper 1955-59, Keeper 1959-66, Principal Keeper 1966-70; Exec. Sec. I.F.L.A. Working Group on Cataloguing Principles 1954-59, Exec. Sec. Organizing Cttee. Int. Conf. on Cataloguing Principles (1961) 1959-66; mem. Council, Library Assn. 1964-70; Chair. I.F.L.A. Cttee. on Cataloguing 1966-74; Pres. Microfilm Assn. of Great Britain 1967-71. *Address:* 44 Russell Square, London, W.C.1, England. *Telephone:* 01-636 7217.

CHAPMAN, Albert Kinkade, PH.D.; American businessman; b. 31 May 1890, Marysville, Ohio; s. of Charles S. and Anna T. (Kinkade) Chapman; m. Ercil Howard 1916; two d.; ed. Ohio State and Princeton Univs.; physiological optical research at Clark Univ. 1916-17; served in U.S. Signal Corps and later in U.S. Air Corps (development of aerial photography) 1917-19; with Eastman Kodak Co. 1919-67, Asst. to Vice-Pres. (Mfg.) 1922-29, Production Man. 1930-41, Asst. Vice-Pres. 1936-41, Vice-Pres. and Asst. Gen. Man. 1941-43, Dir. 1943-66, Vice-Pres. and Gen. Man. 1943-52, Pres. 1952-60, Vice-Chair. of the Board 1960-62, Chair. 1962-66, Chair. of Exec. Cttee. 1961-66; Dir. Canadian Kodak Co. Ltd. 1931-66, Kodak Ltd. 1959-66; mem. of Advisory Cttee. to the Board Lincoln First Bank of Rochester; Hon. Trustee, Univ. of Rochester, Rochester Inst. of Technology; Trustee, Int. Museum of Photography at George Eastman House (Exec. Cttee.); Chevalier Légion d'honneur. *Address:* Eastman Kodak Co., 343 State Street, Rochester, N.Y. 14650, U.S.A.

CHAPMAN-ANDREWS, Sir Edwin Arthur, K.C.M.G., O.B.E., B.A.; British diplomatist; b. 9 Sept. 1903, Exeter; s. of Arthur John and Ada Chapman-Andrews (née Allen); m. Sadie Barbara Nixon 1931; two s. two d.; ed. Univ. Coll., London, Sorbonne, Paris, and St. John's Coll., Cambridge.; appointed to the Levant Consular Service 1926; studied Oriental languages, Cambridge 1926-28; consular appts. Port Said, Cairo, Suez, Addis Ababa, Kirkuk, Harar 1928-36; Asst. Oriental Sec. British Embassy, Cairo 1937; commissioned Royal Sussex Regt. and apptd. Major on staff of C.-in-C., Middle East; liaison officer with H.I.M. Emperor Haile Selassie and entered Abyssinia with H.I.M. 1941; Foreign Office 1942; Counsellor and Head, Personnel Dept. 1944; one of H.M. Inspectors-Gen. of Overseas Establishments 1946; Minister, British Embassy, Cairo 1947; Minister to the Lebanon 1951, Amb. 1952-56; Amb. to the Sudan 1956-61; London Rep. Massey-Ferguson (Export) Co. Ltd. 1961-77, Dir. Massey-Ferguson (Export) Co. Ltd. 1964-77, Mitchell Cotts (Exports) Ltd. 1965-73, John Carrington & Co. Ltd. 1972-; Fellow, Univ. Coll. London 1952; K.St.J. 1952; mem. of Council of Lord Kitchener Nat. Memorial Fund; mem. Council for Middle East Trade 1963-68, Chair. 1965-68; mem. Nat. Export Council 1965-68; mem. Council of Royal Albert Hall, mem. Council Anglo-Arab Assn. 1971-; mem. Hon. Soc. of Gray's Inn; K.C.S.G. (Papal) 1962. *Address:* 2 The Leys, Brim Hill, London, N.2, England.

CHAPMAN NYAHO, Daniel Ahmling, C.B.E., M.A.; Ghanaian teacher, public servant and business executive; b. 5 July 1909, Keta; s. of William and Jane (née Atriki) Chapman; m. Jane Abam Quashie 1941; two s. five d. (one deceased); ed. Bremen Mission School (Keta), Achimota Coll., Univ. of Oxford, Columbia Univ. and New York Univ. Teacher Govt. Senior Boys' School, Accra 1930, Achimota Coll. 1930-33, 1937-46; Gen. Sec. All-Ewe Conf. 1944-46; Area Specialist, UN Secr. Dept. of Trusteeship and Information from Non-Self-Governing Territories 1946-54; mem. Board of Man. of UN Int. School, New York 1950-54, 1958-59; Sec. to Prime Minister and Cabinet, Gold Coast 1954-57; Head of Ghana Civil Service 1957; Amb. to U.S.A. and Perm. Rep. to UN 1957-59; Chair. Mission of Ind. African States to Cuba, Dominican Repub., Haiti, Venezuela, Bolivia, Paraguay, Uruguay, Brazil, Argentina, Chile 1958; mem. Board of Man. of the UN Int. School, New York 1950-54, 1958-59; Headmaster Achimota School 1959-63; Vice-Chair. Comm. on Higher Educ. in Ghana 1960-61, mem. Interim Nat. Council of Higher Educ. and Research, Ghana 1961-62; Fellow, Ghana Acad. of Arts and Sciences; mem. UN Middle East/North Africa Technical Assistance Mission on Narcotics Control 1963; First Vice-Chair. Governing Council UN Special Fund 1959; Dir. UN Div. of Narcotic Drugs 1963-66; mem. Political Cttee. of Nat. Liberation Council 1967; mem. Board of Trustees, Gen. Kotoka Trust Fund; Amb. Ministry of External Affairs 1967; Exec. Dir. Pioneer Tobacco Co. Ltd. (British-American Tobacco Group) 1967-70, Dir. 1970-; Dir. Standard Bank Ghana Ltd. 1970-; Chair. Arts Council of Ghana 1968-69; Danforth Visiting Lecturer for Assn. of American Colleges 1969, 1970; Chair. Council of Univ. of Science and Technology, Kumasi 1972-; mem. Nat. Advisory Cttee. 1972-; Deputy Chair. Ghana Constituent Ass. 1978-79. *Publications:* Our Homeland (Book I—A Regional Geography of South-East Gold Coast) 1945, The Human Geography of Eweland 1945. *Leisure interests:* music, walking, gardening, reading. *Address:* Tobacco House, Liberty Avenue, P.O.B. 5211, Accra (Office); 7 Ninth Avenue, Tesano, Accra, Ghana (Home). *Telephone:* 21111 (Office); 27180 (Home).

CHAPPELL, Gregory (Greg) Stephen, M.B.E.; Australian cricketer and insurance executive; b. 7 Aug. 1948, Adelaide; s. of Arthur Martin and Jeanne Ellen (Richardson) Chappell; m. Judith Elizabeth Donaldson 1971; one s. one d.; ed. St. Leonards Primary School and Plympton High School, Adelaide, and Prince Alfred Coll., Adelaide; grandson of V.Y. Richardson (Australian Cricket Captain 1935-36); brother of I.M. Chappell (Australian Cricket Captain 1971-75); represented S. Australia 1966-73, Somerset (England) 1968-69, Queensland 1973-77; Captain of Queensland 1973-77, of Australia 1975-77; captained Australia in 17 test matches; signed five-year contract for World Series Cricket 1977 (currently Vice-Captain of W.S.C. Australians); made century in test debut v. England, Perth 1970; only captain to have scored a century in each innings of 1st test as captain (v. West Indies, Brisbane 1975); holds record for most catches in a test match (7, v. England, Perth 1975); holds record for most runs (aggregate) in a test match (247 not out and 133 v. New Zealand, Wellington 1974); Australian Sportsman of the Year 1976. *Leisure interests:* golf, tennis, reading,

listening to music. *Address:* 67 St. Paul's Terrace, Brisbane, Queensland (Office); 5 Delphin Street, Kenmore, Queensland, Australia (Home). *Telephone:* 2295416 (Office); 378-5034 (Home).

CHAPSAL, Jacques (Jean René); French political scientist; b. 11 May 1909; ed. Ecole des Sciences Politiques and Faculty of Law, Paris (Docteur en Droit). Librarian of the Senate 1936; Sec.-Gen. Ecole des Sciences Politiques 1939; Dir. of Inst. d'Etudes Politiques, Univ. of Paris 1947-; Administrator Fondation Nationale des Sciences Politiques 1950. *Address:* 27 rue Saint-Guillaume, Paris 7e, France.

CHAR, René; French poet; b. 14 June 1907; ed. Lycée d'Avignon and Univ. d'Aix en Provence. Chevalier Légion d'honneur; Croix de guerre. *Publications:* Le marteau sans maître, Placard pour un chemin des écoliers, Dehors la nuit est gouvernée, Seuls demeurent, Feuillets d'Hypnos, Fureur et mystère, Les matinaux, Le soleil des eaux, A une sérénité crispée, Poèmes et prose choisis, La parole en archipel, Commune présence, Poèmes des deux années, La bibliothèque est en feu, L'âge cassant, Retour amont, Dans la pluie giboyeuse, Le nu perdu, Recherche de la base et du sommet 1971, L'effroi, La voie, Arrière-histoire du "poème pulvérise" 1973, Se recontrer paysage avec Joseph Sima, Le monde de l'art n'est pas le monde du pardon 1974, Aromates chasseurs 1976, Poèmes, 1927-74 1977. *Address:* c/o Editions Gallimard, 5 rue Sébastien-Bottin, Paris 7e; Les Busclats, L'Isle-sur-Sorgue, Vaucluse, France (Home).

CHARBONNEL, Jean; French politician; b. 22 April 1927; m. Marielle Bal 1965; two s. two d.; ed. Lycées Henri IV and Louis-le-Grand, Paris; Univ. de Paris à la Sorbonne, Ecole Normale Supérieure and Ecole Nat. d'Administration. Research worker Centre Nat. de Recherches Scientifiques; with Cour des Comptes 1956; Asst. Prof. Inst. for Political Sciences, Sorbonne 1957-59; Technical Counsellor Ministry of Public Health and later Ministry of Justice 1959-62; Appeal Court Counsellor, Cour des Comptes 1962; mem. Chamber of Deputies 1962-; Gen. Counsellor Brive-Nord area 1964-66; Mayor of Brive 1966-; Sec. of State for Foreign Affairs (Co-operation) 1966-69; Nat. Sec. Union des Démocrates pour la République 1967-68; Asst. Sec.-Gen. to the Union des Démocrates pour la République 1968-71; Pres. Comm. des Finances, Assemblée nationale 1971-72; Fédération des Républicains de Progrès 1976-; Minister of Industrial and Scientific Devt. 1972-74; with Cour des Comptes 1974-. *Publication:* L'Aventure de la fidelité 1976. *Address:* 14 rue Dupont-des-Loges, Paris 7e, France.

CHARGAFF, Erwin, DR.PHIL.; American professor of biochemistry; b. 11 Aug. 1905, Austria; s. of Hermann and Rosa Chargaff; m. Vera Broido 1929; one s.; ed. Maximiliansgymnasium, Vienna, and Univ. of Vienna. Research Fellow, Yale Univ. 1928-30; Asst., Univ. of Berlin 1930-33; Research Assoc., Inst. Pasteur, Paris 1933-34; Columbia Univ., N.Y. 1935-, Asst. Prof. 1938-46, Assoc. Prof. 1946-52, Prof. of Biochemistry 1952-74, Chair. Biochemistry Dept. 1970-74, Prof. Emer. of Biochemistry 1974; Visiting Prof., Sweden 1949, Japan 1958, Brazil 1959; Einstein Chair., Collège de France, Paris 1965, Cornell Univ. 1967; mem. N.A.S.; Fellow American Acad. of Arts and Sciences, Boston; mem. Deutsche Akad. der Naturforscher Leopoldina; Foreign mem. Royal Swedish Physiographic Soc., Lund; Guggenheim Fellow 1949, 1958; Hon. Sc.D. (Columbia) 1976, Hon. Dr.Phil. (Basel) 1976; Pasteur Medal, Paris 1949; Neuberg Medal, N.Y. 1959; Charles Leopold Mayer Prize, Acad. des Sciences, Paris 1963; Dr. H.P. Heineken Prize, Royal Netherlands Acad. of Sciences, Amsterdam 1964; Bertner Foundation Award, Houston 1965; Gregor Mendel Medal, Halle 1973; Nat. Medal of Science, Washington 1975. *Publications:* Essays on Nucleic Acids 1963, Heraclitean Fire: Sketches from a Life before Nature 1978; Editor: The Nucleic Acids (3 vols.) 1955, 1960; numerous scientific articles and other literary work. *Address:* 350 Central Park West, New York, N.Y. 10025, U.S.A. *Telephone:* 222-7994.

CHARLES, Ray (b. Ray Charles Robinson); American jazz musician; b. 23 Sept. 1930, Albany, Ga.; s. of late Bailey and Aretha Robinson; m. Della Charles; three s.; ed. St. Augustine's School, Orlando, Fla.; taught himself to play and write for every bass and wind instrument in the orchestra, specializing in piano, organ and saxophone; composes and arranges; played at Rockin' Chair Club, Seattle Elks Club, Seattle; joined Lowell Fulsom's Blues Band, toured for a year; played at Apollo, Harlem; formed group to accompany singer Ruth Brown; Leader of Maxim Trio; with Atlantic Records 1954-59, ABC Records 1959-62, formed own co., Tangerine 1962-73, Crossover Records Co. 1973-; tours with Ray Charles Revue; major albums include Ray Charles' Greatest Hits, Modern Sounds in Country and Western Music (Vols. 1 and 2), Message from the People, Volcanic Action of my Soul, Through the Eyes of Love. *Address:* RPM International, 2107 West Washington Boulevard, Los Angeles, Calif. 90018, U.S.A.

CHARLES-ROUX, Edmonde; French writer; b. 17 April 1920, Neuilly-sur-Seine; d. of François Charles-Roux and Sabine Gounelle; m. Gaston Defferre 1973; ed. Italy.; served as nurse, then in Resistance Movement, during Second World War, in which she was twice wounded; Reporter, magazine Elle; Features Editor, French edn. of Vogue 1947-54, Editor-in-Chief 1954-66; awarded Prix Goncourt 1966. *Publications:* Oublier Palerme 1966, Elle Adrienne 1971, L'irrégulière 1974. *Leisure interests:* music, sea and sailing. *Address:* Editions Grasset, 61 rue des Saints-Pères, Paris 6e, France.

CHARLOT, Gaston; French chemist; b. 11 June 1904, Paris; m. Dora Haimovici; one d.; ed. Ecole de Physique et de Chimie de Paris. Hon. Prof. Univs. of Paris, Ecole de Physique et de Chimie de Paris; mem. Acad. Des Sciences (Inst. de France); Chevalier, Légion d'honneur; Grand Prix Scientifique de la Ville de Paris. *Publications:* numerous works on analytical chemistry. *Address:* 18 rue Berthollet, Paris 5e, France. *Telephone:* 587-0036.

CHARLOTTE, H.R.H., Grand-Duchess of Luxembourg, Duchess of Nassau; b. 1896, Colmar Berg; m. Felix, Prince of Bourbon and Parma, Prince of Luxembourg 1919; two s.; Jean (q.v.), b. 5 Jan 1921, Charles, b. 7 Aug. 1927 (died July 1977), four d.: Elizabeth, b. 22 Dec. 1922, Marie-Adelaide, b. 21 May 1924, Marie-Gabrielle, b. 10 Aug. 1925, Alix. b. 24 Aug. 1929.; ascended throne Jan. 1919; abdicated Nov. 1964 in favour of elder son, now Grand-Duke Jean of Luxembourg. *Leisure interest:* rose culture. *Address:* Grand-Ducal Palace, Luxembourg.

CHARLTON, Alfred Evan, C.B.E.; British journalist and writer; b. 9 June 1912, Brentford, Middx.; s. of Arthur Herbert Charlton and Margaret Icely Charlton; m. Joyce Edgeworth Johnstone; one s. one d.; ed. St. Paul's School. Sub-Editor The Statesman, New Delhi and Calcutta 1936, Editor 1964-67; Indian Army 1940-46; Deputy Corresp. in India for The Times, London 1954-62, External Services of B.B.C. 1967-77, freelance writer and broadcaster 1977-79; Editor, The Round Table: The Commonwealth Journal of Int. Affairs April 1979-. *Publications:* Go and Order the Drums 1964, India 1971. *Address:* 8 Elm Bank Gardens, Barnes, London, S.W.13, England. *Telephone:* 01-876 1754.

CHARMOT, Guy, M.D.; French physician; b. 1914, Toulon; s. of Ulysse Charmot and Claire Esmieu; m. Edith Dubuisson 1948; one d. Medical Officer in forces 1938; war service in Free French Forces 1940-45; served various hospitals in French-speaking Africa: Chad, Senegal, Congo, Madagascar 1945-66; now working at Hôpital Claude Bernard (infectious and tropical diseases), Paris; Commdr. Légion d'honneur, Companion de la Libération, Croix de guerre. *Publications:* numerous papers concerned chiefly with diseases of the liver and spleen, hereditary anaemia, malaria and amoeba-caused diseases. *Leisure interest:* mountaineering. *Address:* 72 boulevard de Reuilly, 75012 Paris, France. *Telephone:* 628-97-73.

CHARNEY, Jule Gregory, PH.D.; American professor of meteorology and oceanography; b. 1 Jan. 1917, San Francisco, Calif.; s. of Ely Charney and Stella Litman; two s. one d.; ed. Univ. of Calif. at Los Angeles. Research Assoc. Univ. of Chicago 1946-47; Nat. Research Council Fellow, Univ. of Olso 1947-48; Staff mem., long-term mem., Dir. Theoretical Meteorology Group, Inst. for Advanced Study, Princeton, N.J. 1948-56; Prof. of Meteorology, M.I.T. 1956-77, Alfred P. Sloan Prof. of Meteorology 1965-, Chair. Dept. of Meteorology 1974-77; Guggenheim Fellow, Cambridge Univ., Weizmann Inst. 1972-73; Symons Lecturer, Royal Meteorological Soc. 1974; von Neumann Lecturer, Soc. for Ind. and Applied Maths. 1974; mem. Nat. Acad. of Sciences; Fellow American Acad. of Arts and Sciences, American Meteorological Soc., American Geophysical Union; Foreign mem. Royal Swedish Acad. of Sciences, Norwegian Acad. of Sciences; Hon. D.Sc. (Univ. of Chicago) 1970; Meisinger Award, American Meteorological Soc. 1949; Losey Award, Inst. of Aeronautical Sciences 1957; Symons Memorial Gold Medal, Royal Meteorological Soc. 1961; Rossby Research Medal, American Meteorological Soc. 1964; Hodgkins Medal, Smithsonian Inst. 1969; Int. Meteorological Org. Prize 1971; Bowie Medal, American Geophysical Union 1976. *Publications:* Articles on stability of atmospheric motions, geostrophic scaling theory, extra-tropical and tropical cyclogenesis, maintenance of westerlies, numerical weather prediction, Gulf-Stream, Equatorial Under-current, mechanical coupling of troposphere and stratosphere, dynamics of deserts, general circulation of atmosphere. *Leisure interests:* music, reading, hiking. *Address:* Department of Meteorology, Massachusetts Institute of Technology, Cambridge, Mass. 02139, U.S.A. *Telephone:* 617-253-2451.

CHARNOCK, Henry, M.SC., F.R.S.; British meteorologist and oceanographer; b. 25 Dec. 1920, Blackburn; s. of Henry Charnock and Mary Gray (McLeod); m. Eva M. Dickinson 1946; one s. two d.; ed. Queen Elizabeth's Grammar School, Municipal Technical

Coll., Blackburn and Imperial Coll., London. RAFVR 1943-46; Nat. Inst. of Oceanography 1949-58, 1960-66; Imperial Coll. 1958-59; Prof. of Physical Oceanography, Univ. of Southampton 1966-71, 78-, Visiting Prof. 1971-78; Dir. Nat. Inst. of Oceanography (now Inst. of Oceanographic Sciences) 1971-78; Pres. Int. Union of Geodesy and Geophysics 1971-75; Sec. Scientific Cttee. of Oceanic Research 1978-: *Publications:* papers in scientific journals. *Address:* Department of Oceanography, The University, Southampton, SO9 5NH, England. *Telephone:* Southampton 559122.

CHARRY, René; French orthopaedic surgeon; b. 28 March 1898; ed. Univ. of Toulouse.; career dedicated to orthopaedic surgery and pathology of the hip in Toulouse, then grafting of bones and gerontology in Paris 1955-; mem. Soc. of Surgeons, Paris, Int. Soc. of Orthopaedic Surgeons, Int. Coll. of Surgeons, Socs. of German, Belgian and Italian Orthopaedic Surgeons, French League against Rheumatism; Chevalier Légion d'honneur, Commdr. Nichan Iftikhar. Surgical films: La reconstruction articulaire du coude, de la hanche, du genou, reconstruction plastique de la hanche au nylon, l'ostéotomie sous-trochantérienne avec synthèse permettant la marche précoce, La résection-angulation, L'operation mobilisatrice en chirurgie coxo-fémorale, Les meilleurs résultats de la résection-angulation, Aux deux pôles de la résection-angulation, Dynamic Reconstructive Osteotomy 1971. *Publications:* La chirurgie moderne de la hanche 1948, Dix consultations d'orthopédie, La résection-angulation de la hanche en deux temps 1964. *Leisure interests:* skiing, painting. *Address:* 16 rue Alphonse de Neuville, Paris 17e; and 33 boulevard de la Saussaye, Neuilly, France. *Telephone:* 227-35-31.

CHARTERIS, Leslie, F.R.S.A.; American author; b. 12 May 1907, Singapore; m. 1st Pauline Schishkin 1931, one d.; m. 2nd Barbara Meyer 1939, 3rd Elizabeth Borst 1943, 4th Audrey Long 1952; ed. Rossall School and King's Coll., Cambridge. Editor The Saint Magazine 1953-67; producer of The Saint and other radio programmes; writer of the internationally syndicated Saint comic strip; originator of The Saint television programme; has written several film scripts; columnist, Gourmet Magazine 1966-68; mem. Mensa, Council of Int. Foundation for Gifted Children; Pres. Saint Club and Arbour Youth Centre; invented universal sign language Paleneo 1969. *Publications:* Meet the Tiger 1929, Enter the Saint 1931, The Last Hero 1931, The Avenging Saint 1931, Wanted for Murder 1931, Angels of Doom 1932, The Saint v. Scotland Yard 1932, Getaway 1933, The Saint and Mr. Teal 1933, The Brighter Buccaneer 1933, The Misfortunes of Mr. Teal 1934, The Saint Intervenes 1934, The Saint Goes On 1935, The Saint in New York 1935, Saint Overboard 1936, The Ace of Knaves 1937, Thieves' Picnic 1937, Juan Belmonte: Killer of Bulls (translated from Spanish) 1937, Follow the Saint 1938, Prelude for War 1938, The First Saint Omnibus 1939, The Saint in Miami 1940, The Saint Goes West 1942, The Saint Steps In 1943, The Saint at Large 1943, The Saint on Guard 1944, The Saint Sees It Through 1946, Call for the Saint 1948, Saint Errant 1948, The Second Saint Omnibus 1951, The Saint in Europe 1953, The Saint on the Spanish Main 1955, The Saint Around the World 1956, Thanks to the Saint 1957, Señor Saint 1958, The Saint to the Rescue 1959, Trust the Saint 1962, Saint in the Sun 1963, Vendetta for the Saint 1964, The Saint on TV 1968, The Saint Returns 1968, The Saint Abroad 1969, The Saint and the Fiction Makers 1969, The Saint in Pursuit 1970, The Saint and the People Importers 1971, Saints Alive 1974, Catch the Saint 1975, The Saint and the Hapsburg Necklace 1976, Send for the Saint 1977, The Saint in Trouble 1978, The Saint and the Templar Treasure 1978. *Leisure interests:* reading, languages, horse racing, swimming, food and wine. *Address:* 8 Southampton Row, London, W.C.1, England.

CHARUE, André-Marie; Belgian ecclesiastic; b. 1 July 1898, Jemeppe-sur-Sambre; ed. Grand Séminaire de Namur, Catholic Univ. of Louvain. Prof. of Scriptures, Grand Séminaire de Namur 1928-41; Bishop of Namur 1941-; Vice-Pres. Theological Cttee. of Second Vatican Council; gave permission for the veneration of the shrine of Beaurang 1943, declared that the authenticity of the apparitions should be admitted 1949. *Publications:* include L'incrédulité des Juifs dans le Nouveau Testament 1929, L'année sociale dans le diocèse de Namur 1950, Les Epîtres catholiques (commentary on the collection La Sainte Bible) 1951, Le clergé diocésain tel qu'un evêque le voit et le souhaite 1960. *Address:* Evêché de Namur, Rue de l'evêché 1, B5000 Namur, Belgium.

CHARUSATHIRA, General Prapas; Thai army officer and politician; b. 25 Nov. 1912, Udorn Prov.; m. Khunying Sawai; one s. four d.; ed. Chulachomklao Royal Military Acad. and National Defence Coll. Army service 1933, rose through infantry to Gen. 1960; Minister of Interior 1957-71; Deputy Prime Minister 1963-71; Army Deputy Commdr. and Deputy Supreme Commdr. 1963-64, Supreme Commdr. 1964; mem. Nat. Exec. Council and Dir. of Security Council (Defence and Interior) 1971-72; Deputy Prime Minister, Minister of Interior 1972-73; Vice-Pres. and Rector, Chulalongkorn Univ. 1961-69; in exile 1973-77, returned to Thailand Jan. 1977; numerous decorations. *Publications:* The Role of the Ministry of Interior in the Development of National Security, The Role of the Ministry of Interior in Maintenance of National Peace and Order. *Leisure interests:* sport: boxing, soccer, golf, hunting, amateur ranching, arms collecting. *Address:* 132-5 Suan Puttan Residence, Bangkok, Thailand.

CHARVÁT, Josef, M.U.DR., DR.SC.; Czechoslovak professor of medicine; b. 6 Aug. 1897, Prague; s. of late Václav and Anna Charvát; m. Božena Charvát 1920 (deceased); two d.; ed. Charles Univ., Prague. Lecturer in Internal Medicine Univ. of Prague 1928-33, Prof. 1933-, Dir. Univ. Polyclinic 1939-45, Dir. 3rd Medical Dept., Faculty of Medicine 1945-72; Dir. Lab. for Endocrinology and Metabolism 1956-; mem. Scientific Council, Ministry of Health 1952-68; mem. Advisory Cttee. for Medical Research, WHO 1958-61, Pres. Endocrinological Soc. 1937-74; mem. UN Advisory Cttee. for Applications of Science and Technology 1964-71; mem. Czechoslovak Acad. of Sciences 1954-; Foreign mem. Serbian Acad. of Sciences and Arts 1965, Polish Acad. of Sciences 1966; Deputy to Czech Nat. Council 1968-71; Rector, Charles Univ., Prague 1969; Pres. Inter. Congress Endocrinology, Washington 1972; Hon. degree Cracow Univ. 1964, Charles Univ., Prague 1968, Comenius Univ., Bratislava 1969; Order of Labour 1957, State Prize 1962, Hero of Socialist Labour and Holder of the Gold Star 1967, Léon Bernard Prize 1968, J. E. Purkyně Hon. Golden Plaque of the Czechoslovak Acad. of Sciences for Merits in Science and Mankind 1967, for Merits in Medical Sciences 1972, J. G. Mendel Hon. Golden Plaque of the Czech. Acad. of Sciences for Merits in Biol. Sciences 1977. *Publications:* Internal Secretions 1935, Avitaminoses 1938, Metabolism of Carbohydrates 1942, Steroid Hormones 1952, Manual for Practitioners 1952, 1955, 1967, Parathyroid 1954, Growth Hormones 1952, Neurohypophysis 1956, Life Adaptation and Stress 1969, 1970, 1973, Man and his World 1974, over 500 articles on internal medicine. *Address:* Ostrovni 5, 110 00 Prague 1, Czechoslovakia. *Telephone:* 29-17-13.

CHARYK, Joseph Vincent, PH.D., M.S., B.SC.; American scientist and administrator; b. 9 Sept. 1920, Canmore, Alberta, Canada; s. of John and Anna (Dorosh) Charyk; m. Edwina Rhodes Charyk; three s. one d.; ed. Univ. of Alberta, Calif. Inst. of Technology. Instructor of Aeronautics, Calif. Inst. of Technology 1945; Asst. (later Assoc.) Prof. of Aeronautics, Princeton Univ. 1946; Dir. of Aerophysics and Chemistry Lab., Lockheed Aircraft Corpn. 1955-56; Dir. of Missile Technology Lab., Gen. Man. Space Technology Div. Aeronutronic Systems Inc. (Subsidiary of Ford Motor Co.) 1956-59; Chief Scientist U.S.A.F. 1959, Asst. Sec. of Air Force for Research and Devt. 1959; Under-Sec. U.S.A.F. 1960-63; Pres. and Dir. Communications Satellite Corpn. March 1963-; mem. Board of Dirs., Abbott Labs., CML Satellite Corpn., Comsat Gen. Corpn.; mem. Int. Acad. of Astronautics; Fellow of American Inst. of Aeronautics and Astronautics; mem. Nat. Space Club, Armed Forces Communications and Electronics Assen., Newcomen Soc., Nat. Inst. Social Sciences, and Conf. Board, Nat. Acad. of Eng.; Hon. LL.D., Hon. Dr.Ing. *Leisure interests:* golf, tennis, photography. *Address:* 5126 Tilden Street, N.W., Washington, D.C. 20016, U.S.A. *Telephone:* (202) 244-3761.

CHASE, Stuart, S.B.; American social scientist; b. 8 March 1888; ed. Mass. Inst. Technology and Harvard Univ.; certified Public Accountant 1916; Staff U.S. Federal Trade Comm. 1917 and U.S. Food Administration 1918-19; Consulting Economist for Nat. Resources Board, Resettlement Administration, and Securities Exchange Comm., Tennessee Valley Authority; mem. Nat. Inst. of Arts and Letters; Hon. Litt.D. (American Univ., Washington) 1950, (Emerson Coll., Boston) 1970, (Newhaven, Conn.) 1974. *Publications:* The Tragedy of Waste 1925, Your Money's Worth 1927, Men and Machines 1929, Mexico: a Study of Two Americas 1931, A New Deal 1932, The Economy of Abundance 1934, Government in Business 1935, Rich Land, Poor Land 1936, The Tyranny of Words 1938, The New Western Front 1939, Idle Money, Idle Men 1940, A Primer of Economics 1941, The Road We are Travelling 1942, Goals for America 1942, Where's the Money Coming From? 1943, Democracy under Pressure 1945, Men at Work 1945, To-morrow's Trade 1946, For This We Fought 1947, The Proper Study of Mankind 1948, Roads to Agreement 1951, Power of Words 1954, Guides to Straight Thinking 1956, Some Things Worth Knowing 1958, Live and Let Live 1960, American Credos 1962, Money to Grow On 1964, The Most Probable World 1967, Danger Man Talking 1969. *Address:* Somersworth, N.H., U.S.A.

CHASTEL, André (Adrien), DR. ÈS LETTRES; French art historian; b. 15 Nov. 1912, Paris; s. of Adrien Chastel and Marie-Isabelle Morin; m. P.-M. Grand 1942; three s.; ed. Sorbonne, Paris. Asst. in Art History, Sorbonne 1945-48; Focillon Fellowship, Yale 1949; Dir. of Studies for the History of the Renaissance, Ecole Pratique des Hautes Etudes 1951-; Prof. History of Modern Art, Sorbonne 1955–; Prof. Coll. de France 1970-; Andrew Mellon Lecturer, Nat. Gallery, Washington, D.C. 1977; art critic, Le Monde 1950-; Sec. Comité Int. d'Histoire de l'Art 1961-, Vice-Pres. 1969; mem. Inst. de France 1975-, Accad. dei Lincei, Rome 1976-; Foreign Hon. mem. American Acad. of Arts and Sciences 1975-; Corresp. Fellow, British Acad. 1976; Croix de guerre 1939-40; Officier Légion d'honneur 1974; Grand Prix National 1978. *Publications:* Vuillard 1946, L'art italien (2 vols.) 1957, Botticelli 1958, Art et humanisme à Florence au temps de Laurent le Magnifique 1959, L'age de l'humanisme (with R. Klein) 1963, Italie 1460-1500 (2 vols.) 1965, Crise de la Renaissance 1968, Mythe de la Renaissance 1969, edition of Gauricus de Sculptura (1504) 1969, Fables, formes et figures (2 vols.) 1978. *Leisure interest:* member of R.C.F. *Address:* 30 rue de Lubeck, Paris 75116, France.

CHATAWAY, Rt. Hon. Christopher John, P.C.; British banker, fmr. politician and fmr. athlete; b. 31 Jan. 1931; m. Carola Walker 1976; ed. Sherborne School and Magdalen Coll., Oxford.; represented U.K. at Olympic Games 1952, 1956; holder of world 5,000 metres record 1954; Junior Exec., Arthur Guinness, Son and Co. 1953-55; Staff Reporter, Ind. Television News 1955-56; Current Affairs Commentator, BBC Television 1956-59; mem. London County Council 1958-61; M.P. for Lewisham North 1959-66, for Chichester 1969-74; Parl. Private Sec. to Minister of Power 1961-62; Joint Parl. Under-Sec. of State, Dept. of Educ. and Science 1962-64; Alderman, Greater London Council 1967-70; Minister of Posts and Telecommunications 1970-72, for Industrial Devt. 1972-74; Chair. Advisory Council Honeywell U.K.; Man. Dir. Orion Bank 1974-; Dir. Dorchester Hotel, British Electric Traction Co., Utd. Medical Enterprises Ltd.; Treas. Nat. Cttee. for Electoral Reform 1976-; Conservative. *Address:* Orion Bank Limited, 1 London Wall, London EC2Y 5JX (Office); 40 Addison Road, London, W.14, England (Home). *Telephone:* 01-600 6222 (Office).

CHATENET, Pierre, LIC. EN DR.; French politician; b. 6 March 1917, Paris; s. of Henri Chatenet and Andrée Genès; m. Jacqueline Parodi 1947; one s.; ed. Lycée Buffon and Ecole des Sciences Politiques. Auditor Conseil d'Etat 1941; Chargé de Mission, Provisional Govt. 1944, Labour Office 1944-45; mem. French Del. UN Conf. San Francisco 1945; Maître des Requêtes, Conseil d'Etat 1946; Counsellor French Del. to UN 1946-47; Political Dir. Résidence Gen. Tunis 1947-50; Counsellor French Perm. Del. to NATO 1950-54; Dir. of Civil Service (Présidence du Conseil) 1954; mem. UN Rights of Man Comm., Consultative Cttee. Fonction Publique Int.; Sec. of State (Prime Minister's Office) Jan.-May 1959; Minister of the Interior May 1959-61; Pres. of EURATOM 1962-67; Conseiller d'Etat 1963-; Pres. Comm. des Opérations de Bourse 1967-72; mem. Conseil Constitutionnel 1968-77; Pres. CREDITEL 1973; mem. Board Compagnie Gén. d'Electricité 1974; Officier Légion d'honneur; Grand Croix de l'Ordre de la Couronne de Belgique. *Address:* 3 avenue Robert Schuman, Paris 7e, France.

CHATT, Joseph, C.B.E., PH.D., SC.D.; British chemist; b. 6 Nov. 1914, Horden; s. of Joseph Chatt and Elsie Chatt (née Parker); m. Ethel Williams 1947; one s. one d.; ed. Nelson School, Wigton, Cumberland and Cambridge Univ. Deputy Chief Chemist, later Chief Chemist, Peter Spence & Son Ltd. 1942-46; ICI Research Fellow, Imperial Coll., London 1946-47; Head of Inorganic Chemistry Dept., Butterwick, later Akers Research Labs., ICI Ltd. 1947-60; Akers Group Man. Research Dept. Heavy Organic Chemicals Div., ICI 1960-62, Group Head and Consultant, Petrochemical and Polymer Lab., ICI 1963; Dir. Unit of Nitrogen Fixation, Agricultural Research Council 1963-; Prof. of Chemistry, Queen Mary Coll., London Univ. 1963-64, Univ. of Sussex Jan. 1965-; Fellow of Royal Soc., mem. Council 1975-77; Hon. Fellow Emmanuel Coll., Cambridge 1978; mem. Chemical Soc., of Council, Hon. Sec. 1956-62, Vice-Pres. 1962-65, 1972-74; mem. American Chemical Soc., Royal Inst. of Chemistry; mem. IUPAC Comm. on the Nomenclature of Inorganic Chemistry 1959-, Chair. 1976-; mem. A.R.C. Advisory Cttee. on Plants and Soils 1964-67; Hon. Life. mem. New York Acad. of Sciences 1978; corresp. mem. Acad. of Sciences, Lisbon 1978; Distinguished Visiting Prof. of Chemistry, Pa. State Univ.; Visiting Prof. of Chemistry, Yale, Rajasthan and South Carolina Univs.; Debye Lecturer, Cornell Univ. 1975; Tilden Lecturer of Chemical Soc. 1962, Liversidge Lecturer 1971-72, Nyholm Lecturer 1976-77, Arthur D. Little Lecturer, M.I.T. 1977; Univ. Lecturer in Chemistry, Western Ont. 1978; Stieglitz Lecturer Chicago Univ. 1978; Stauffer Lecturer, Univ. of Southern Calif. 1979; Pres. Dalton Div. Chemical Soc. 1971-74; Hon. D.Sc. (East Anglia) 1974; Gordon Wigan Prize for Research in Chemistry Univ. of Cambridge 1939; American Chemical Soc. Award for Distinguished Service in the Advancement of Inorganic Chemistry 1971, Organometallic Award of Chemical Soc. 1971; Chugaev Commemorative Diploma and Medal, Kurnakov Inst. of Gen. and Inorganic Chemistry, Soviet Acad. of Sciences 1976. *Publications:* Scientific papers on complex chemistry, A.R.C. *Leisure interest:* numismatics. *Address:* Unit of Nitrogen Fixation, University of Sussex, Brighton BN1 9QJ (Office); 28 Tongdean Avenue, Hove, Sussex BN3 6TN, England (Home). *Telephone:* 606755 (Office); 554377 (Home).

CHATTERJEE, Dwarka Nath, B.A.; Indian diplomatist; b. 2 Nov. 1914, Calcutta; s. of P. N. Chatterjee; four d.; ed. Calcutta Univ., King's Coll., London, London School of Economics and School of Oriental Studies, London. Army Service 1940-47; Indian Foreign Service 1947-; First Sec., Paris 1948-49, London 1949-54; Deputy Sec., Ministry of External Affairs 1954-55; Deputy High Commr. in Pakistan 1956-58; Consul-Gen., Geneva 1958-59; Minister, Washington 1959-62; Amb. to Congo (Kinshasa) 1962-64; High Commr. in Australia 1965-67; Acting High Commr. in U.K. 1967-68, Deputy High Commr. 1968-69; Amb. to France 1969-76. *Address:* 9 Lovelock Place, Ballygune, Calcutta, India.

CHATTOPADHYAYA, Harindranath; Indian poet, dramatist, musician and actor; b. 1898; ed. U.K., Germany, U.S.A. and U.S.S.R.; studied theatrecraft under Stanislavsky and Meyerholdt; pioneer modern Indian Theatre; leader progressive movement in literature; produced a film, Azadi (Freedom); has written screen script for Legend of Gautam, Buddha, 1942, and Abul Hassan (musical comedy); mem. of Lok Sabha (Parliament) 1952. *Publications:* The Coffin, Feast of Youth, Ancient Wings, Grey Clouds and White Showers, Poems and Plays, Five Plays in Verse, Five Plays in Prose, Dark Well, The Divine Vagabond, Horizon—Ends, Edgeways and the Saint, Lyrics, Blood of Stones, Perfume of Earth, Magic Tree, Crossroads, Life and Myself (Vol. I: Autobiography), Hunter of Kalahasti (play), Treasury of Poems, Land of the New Man, The Toy-Maker of Kondapalli (play), Spring in Winter (lyrics), etc. *Address:* 3 Krishna Iyer Street, Nungumbakam, Madras, India.

CHATTY, Habib; Tunisian diplomatist; b. 1916; ed. Sadiki Coll., Tunis. Journalist 1937-52, Editor Ez-Zohra 1943-50, Es-Sabah 1950-52; imprisoned 1952, 1953; Head, Press Cabinet of Pres. of Council 1954-55, Head, Information Service 1955; mem. Nat. Council, Neo-Destour Party 1955; Dir. Al Amal 1956; Vice-Pres. Constituent Nat. Ass. 1956; Amb. to Lebanon and Iraq 1957-59, to Turkey and Iran 1959-62, to U.K. 1962-64, to Morocco 1964-70, to Algeria 1970-72; Dir. of Presidential Cabinet 1972-74; Minister of Foreign Affairs 1974-77; fmr. mem. Political Bureau and Central Cttee. of Destour Socialist Party 1974-77; Deputy to Nat. Ass. 1974, 1978-; several decorations. *Address:* c/o Ministry of Foreign Affairs, Tunis, Tunisia.

CHATZIDAKIS, Manos; Greek composer; b. 1925.; composer of ballet music, incidental music for theatre and films, piano and orchestral music, and popular songs; numerous national and int. awards, including Oscar 1961; composed music for Lysistrata, Birds, Plutus (Aristophanes), and for films Stella 1956, Never on Sunday 1960, Topkapi 1964, etc.

CHAU, Dr. the Hon. Sir Sik-Nin, Kt., C.B.E., LL.D., M.B., B.S.; Hong Kong business executive; b. 1903, Hong Kong; s. of late Cheuk-Fan Chau; m. Ida Hing-Kwai Lau 1927 (died 1967); two s.; ed. St. Stephen's Coll., Hong Kong, Univs. of Hong Kong, London and Vienna. Chair., Hong Kong Trade Devt. Council 1966-70, Hong Kong Model Housing Soc., The Hong Kong Chinese Bank Ltd., Kowloon Motor Bus Co., Pioneer Trade Devt. Co. Ltd., Repulse Bay Enterprises Ltd., Far East Insurance Co. Ltd., Nin Fung Hong Ltd., Oriental Express Ltd., Sik Yuen Co. Ltd., State Trading Corpn. Ltd.; Pres. Hong Kong Productivity Council 1970-73, Hong Kong Cttee. for Expo 1970, Osaka, Japan; Hon. Pres. Fed. of Hong Kong Industries; mem. Textiles Advisory Board, Legis. Council 1946-60, Exec. Council 1947-62; Chair. Sub-Comm. on Trade, UN Econ. Comm. for Asia and Far East Conf. 1955, Indo-Pacific Comm., Int. Council for Scientific Man. 1964-67; Pres. Japan Soc. of Hong Kong; Pres. designate World Council of Man. 1977, Dir. official, educational and philanthropic orgs.; Hon. LL.D. (Hong Kong); Order of Sacred Treasure (Japan) 1969. *Leisure interest:* racing. *Address:* The Hong Kong Chinese Bank Ltd., 61-65 Des Voeux Road; 3547 Hatton Road, Hong Kong. *Telephone:* 433695.

CHAUDHURI, Naranarain (Sankho), B.A.; Indian sculptor; b. 25 Feb. 1916; ed. Armanitoba High School, Dacca and Bishwa Bharti Santiniketan, West Bengal.; freelance artist 1947-; Chief, Dept. of Sculpture, Maharaja Sayajirao Univ. of Baroda 1951-,

Prof. 1957-, Dean of Faculty 1960-68; mem. Lalit Kala Akademi 1956-; Pres. Indian Sculptors' Assn. 1964-65; mem. Indian Cttee. Int. Assn. of Plastic Arts; exhibited São Paulo Bienal 1961, One-Man Exhbns. Bombay and Delhi; numerous Indian awards. *Major works:* Sculptures, All India Radio, Delhi 1955, Statue of Mahatma Gandhi, Rio de Janeiro, and works in collections in India, U.K. and U.S.A.

CHAUDHURI, Nirad Chandra, B.A., F.R.S.L.; Indian writer; b. 23 Nov. 1897; ed. Calcutta Univ.; fmr. Asst. Editor The Modern Review (Calcutta); fmr. Sec. to Sarat Bose (Leader of Congress Party, Bengal); fmr. Commentator, All India Radio; has contributed to The Times, Encounter, New English Review, The Atlantic Monthly, Pacific Affairs; also contributed to Indian papers The Statesman, The Illustrated Weekly, The Hindustan Standard, The Times of India; Duff Cooper Memorial Prize for The Continent of Circe 1967. *Publications:* The Autobiography of an Unknown Indian 1951 (published as Jaico, India 1964), A Passage to England 1959, The Continent of Circe 1965, Woman in Bengali Life (in Bengali) 1968, Scholar Extraordinary: The Life of Professor the Rt. Hon. Friedrich Max Müller P.C. 1974, Clive of India 1975. *Address:* P. and O. Buildings, Nicholson Road, Delhi-6, India.

CHAUDHURY, Mahendra Mohan, B.A., B.L.; Indian politician; b. 12 April 1908, Nagaon, Assam; m. Sukhalata Chaudhury 1934; two s. four d.; ed. Cotton Coll., Gauhati, and Earle Law Coll., Gauhati.; admitted to Barpeta Bar 1936; joined freedom struggle under Mahatma Gandhi, imprisoned 1932, 1941, and 1942; mem. Assam Legis. Ass. 1946; Sec. Assam Congress Parl. Party; Parl. Sec. 1947; Advocate of Assam High Court 1949; Cabinet Minister, Assam 1950-55; Pres. Assam Pradesh Congress Cttee. 1955-56; Gen. Sec. All India Congress Cttee. 1956-57; mem. Rajya Sabha 1956, 1972; Speaker Assam Legis. Ass. 1958; Chief Minister of Assam 1970-72; Gov. of Punjab 1973-77. *Publications:* Life of Mahatma Gandhi, Life and Philosophy of Acharya Vinoba Bhave. *Leisure interests:* gardening, cattle rearing, wildlife, horticulture, agriculture. *Address:* c/o Punjab Raj Bhavan, Chandigarh, India. *Telephone:* 24481, 24400.

CHAUDHURY, Moinul Haque; Indian politician; b. 13 May 1923, Sonabarighat, Assam; s. of M. A. Chaudhury and Safarunnessa Chaudhury; m. Rashida Mazumder 1948; one s. three d.; ed. Aligarh Univ.; elected Congress, M.L.A., Assam 1952, 1957, 1962, 1967; mem. All-India Congress Cttee. 1959-; Minister of Agriculture, Community Devt., Fisheries, Parl. Affairs, Irrigation, Govt. of Assam 1957-67; represented India at UN 1961, 1968, and in other int. bodies; mem. Parl., Minister of Industrial Devt., Govt. of India 1971-72; Senior Advocate, Supreme Court. *Leisure interests:* reading, gardening. *Address:* 4 Motilal Nehru Marg, New Delhi, India. *Telephone:* 38-7217.

CHAUFOURNIER, Roger, D. EN D.; French international bank official; b. 23 Jan. 1924, Lignières; s. of Louis Chaufournier and Josephine Rome; m. Edna Hylton 1951; two s. one d.; ed. Univ. de Paris (Sorbonne) and Ecole des Hautes Etudes Commerciales, Paris. Post Doctoral Studies and Research, Univs. of Uppsala and Ill.; mem. Teaching and Research Staff, Dept. of Econs., Univ. of Ill. 1949-52; Int. Bank for Reconstruction and Devt. (World Bank) 1952-, economist 1952-56, Bank Rep. in Peru and Adviser to Peruvian Govt. 1956-60, Div. Chief, W. Hemisphere and European Depts. 1960-64, Deputy Dir. W. Hemisphere Dept. 1964-68, Dir. W. African Dept. Nov. 1968-72, Regional Vice-Pres. for Africa Oct. 1972-; Fellow, Swedish Inst. 1948; Fulbright Fellow 1949; Fellow, Inst. of Int. Educ. *Leisure interests:* reading, bridge, tennis, swimming, sailing. *Address:* 1818 H Street, N.W., Washington, D.C. 20433 (Office); 5004 Nahant Street, Washington, D.C. 20016, U.S.A. (Home). *Telephone:* 477-4504 (Office); 229-2967 (Home).

CHAUVIRÉ, Yvette; French ballerina; b. 22 April 1917, Paris; ed. Paris Opera Ballet School.; joined Paris Opera Ballet 1930, Danseuse Etoile 1942; with Monte Carlo Opera Ballet 1946-47; Artistic and Technical Adviser to Admin. of Paris Opera 1963-; Chevalier Légion d'honneur; Officier des Arts et des Lettres; ballets in which she has performed leading roles include Istar, Les deux pigeons, David triomphant, Giselle, Les créateurs de Prométhée, Roméo et Juliette, L'écuyère, Les suites romantiques, Lac des cygnes, L'oiseau de feu, Petrouchka, Sylvia, La belle Hélène, Casse-Noisette, Les mirages, Le cygne, La dame aux camélias. *Publication:* Je suis ballerine. *Leisure interests:* drawings, watercolours, collecting swans. *Address:* 21 Place du Commerce, Paris 15e, France. *Telephone:* 250-4242.

CHAVAN, Yeshwantrao Balwantrao, B.A., LL.B.; Indian politician; b. 12 March 1913, Sangli district of Maharashtra; s. of Shri Balwantrao Chavan; m. Smt. Venubai 1942; ed. Rajaram Coll., Kolhapur, and Law Coll., Poona.; practised law at Karad; participated in Quit India movement 1942; directed underground movement in Satara District 1942-43; arrested 1943-44; Pres. District Congress Cttee., Satara 1940; Sec. Maharashtra Provincial Congress Cttee. 1948-50; mem. Bombay Legis. Ass. and Parl. Sec. 1946; started a Marathi daily, Prakash, at Satara; Minister for Civil Supplies 1952, later Minister of Local Self-Govt. and Forests; Chief Minister, Bombay State 1956-60, Maharashtra State 1960-62; Treas. Working Cttee. All-India Congress 1958; Minister of Defence, India 1962-66, of Home Affairs 1966-70, Minister of Finance 1970-74, of External Affairs 1974-77; leader of Congress Party in Rajya Sabha 1963; mem. Lok Sabha 1964-, leader of Congress Party in Parl. March 1977-; Pres. Inst. for Defence Studies and Analysis. *Leisure interests:* reading, fine arts and sports. *Address:* 1 Race Course Road, New Delhi, India.

CHAVANON, Christian, D. EN D.; French lawyer and radio administrator; b. 12 March 1913; law practice in Bordeaux; Auditeur 1941, later Maître des Requêtes, Conseil d'Etat 1946, Conseiller d'Etat 1963-; Dir. du Cabinet, Ministry of Reconstruction 1951-53; Prof. Inst. d'Etudes Politiques; Prés. Dir.-Gén. Soc. Nat. des Entreprises de Presse 1953-55, Hon. Prés. Dir.-Gén. 1955-; Sec.-Gén. of Information June 1958, Dir.-Gén, Radiodiffusion-Télévision Française July 1958-60; Prés. Dir.-Gén. l'Agence Havas 1960-73; Pres. Dir.-Gen. Havas Conseil 1960-73; Pres. Nat. Confed. for French Publicity 1967-69, Hon. Pres. 1969; Admin. Cie. Luxembourgeoise Télédiffusion 1960-75, Admin. Délegué Cie. Luxembourgeoise Télédiffusion 1975-78; Pres. Finance Section, Conseil d'Etat 1973-75, Vice-Pres. 1978-; Vice-Pres. Cour de discipline budgétaire et financière 1974-75; mem. Haut-Comité de la langue française 1969-76; Grand Officier, Légion d'honneur, Officier du Mérite agricole. *Address:* 18 Boulevard Maillot, 92 Neuilly-sur-Seine, France.

CHAVES DE MENDONÇA, Antônio Aureliano; Brazilian politician; b. 13 Jan. 1929, Três Pontas, Minas Gerais; s. of Jose Vieira and Luzia Chaves de Mendonça; m. Vivi Sanches de Mendonça; one s. two d.; ed. Itajuba Fed. School of Eng., Fluminense Faculty of Eng., War Coll.; teaching posts at Itajuba Fed. School of Eng. and Polytech. Inst. of Catholic Univ. of Minas Gerais; Tech. Dir. ELETROBRAS 1961; Majority Leader in State Congress of Minas Gerais 1963-67; State Sec. for Educ. 1964, for Transport and Public Works 1965; Fed. Deputy 1967-75, Chair. Comm. for Mines and Energy 1971, later of Comm. for Science and Tech., also posts in various other comms.; Vice-Pres. of Brazil March 1979-; mem. Brazilian Geographical Soc., Brazilian Comm. for Large Dams, Brazilian Centre for Physical Research; various Brazilian medals; Arena party. *Publications:* several text books. *Address:* Office of the Vice-President, Brasília, Brazil.

CHÁVEZ, Ignacio, M.D.; Mexican physician; b. 31 Jan. 1897, Zirándaro, Michoacán; s. of Ignacio Chávez and Socorro Sánchez de Chávez; m. Celia Rivera de Chávez 1928 (died 1969); one s. one d.; ed. Univ. Nacional Autónoma de México; Clinical Prof. Univ. Nacional Autónoma de México 1923-50, Dir. Nat. School of Medicine 1933-34; Prof. of Cardiology, School of Graduates 1946-61, Rector of Univ. Nacional Autónoma de México 1961-66; Founder and Dir. Nat. Inst. of Cardiology of Mexico 1944-66, Hon. Dir. 1966-; Founder Mexican Cardiological Soc. 1935; founder-mem. Colegio Nacional 1943; Hon. Rector Univ. Michoacana de San Nicolás de Hidalgo; Hon. Prof. Univs. de Guadalajara, San Carlos de Guatemala, San Salvador, Rio de Janeiro, etc.; Hon. Pres. Interamerican Soc. of Cardiology; Pres. Int. Soc. of Cardiology 1958-62, Hon. Pres. 1962-; mem. Acads. of Medicine of Mexico, New York, Buenos Aires, etc.; hon. degrees Paris, Montpellier, Lyons, Mexico, São Paulo, Oxford, Bologna, Prague, Cracow, Jerusalem, Salamanca; Scientific Prize of Mexico; numerous Mexican and foreign decorations. *Publications:* La Digitalina a pequeñas dosis en el tratamiento de las Cardiopatias 1920, Lecciones de Clínica Cardiológica 1931, Exploración Funcional de los Riñones y Clasificación de la Nefropatias 1931, Enfermedades del Corazón, Cirugía y Embarazo 1945, Diego Rivera, Sus Frescos en el Instituto Nacional de Cardiología 1946, México en la Cultura Médica 1947, El Instituto Nacional de Cardiologia a los diez años de su fundación 1954, . . . a los veinte años de su fundación 1964, El Nuevo Instituto Nacional de Cardiología 1978, Humanismo médico: Educación y Cultura 1978. *Leisure interests:* reading, history and literature, travelling, photography. *Address:* Paseo de la Reforma 1310, Lomas, México 10, D.F., Mexico. *Telephone:* 5-201176.

CHAVUNDUKA, Gordon Lloyd, M.A., PH.D.; Rhodesian university lecturer and nationalist politician; b. 16 Aug. 1931, Umtali; s. of Solomon and Lillian Chavunduka; m. Rachel Chavunduka 1959; two s. four d.; ed. Univ. of California at Los Angeles, Univs. of Manchester and London; Lecturer in Sociology, Univ. of Rhodesia, Salisbury 1966-, Acting Head, Dept. of Sociology 1974-75; mem.

Univ. Senate 1972; Sec.-Gen. African Nat. Council 1973-; Pres. Assen. of Univ. Teachers of Rhodesia 1974-. *Publications:* Traditional Healers and the Shona Patient; also papers in the field of sociology and contribs. to INCIDI, The Rhodesian Journal of Economics, The Society of Malawi Journal, etc. *Leisure interests:* gardening, boxing (spectator), football. *Address:* University of Rhodesia, P.O. Box 2702, Mount Pleasant, Salisbury; 6163 Mangwende Drive East, P.O. Highfield, Salisbury, Zimbabwe Rhodesia (Home.)

CHAYEFSKY, Paddy; American writer; b. 29 Jan. 1923, Bronx, N.Y.; s. of Harry Chayefsky and Gussie Stuchevsky Chayefsky; m. Susan Sackler 1949; one s.; ed. New York; author of television plays 1952-; Writer, Producer and Assoc. Producer of the films: Marty 1955, Bachelor Party 1957; Writer of films: The Goddess 1958, Middle of the Night 1959, The Americanization of Emily 1964, The Hospital 1971, Network 1975, Altered States 1979; of Broadway plays incl. Middle of the Night 1956, The Tenth Man 1959, Gideon 1961, The Passion of Josef D. 1964, The Latent Heterosexual 1968; Pres. Sudan Corpn. 1956-, Carnegie Productions 1957, S.P.D. Inc. 1959, Sidney Productions Inc. 1967, Simcha Productions Inc. 1971; mem. Dramatists Guild, Screenwriters Guild, etc.; Acad. Awards for Marty 1955, The Hospital 1972, Network 1977. *Publications:* Television Plays 1955, The Goddess 1958, Middle of the Night 1959, The Tenth Man 1960, Gideon 1961, The Passion of Josef D. 1964, The Latent Heterosexual 1968, Altered States 1978. *Leisure interest:* photography. *Address:* 850 7th Avenue, New York, N.Y. 10019, U.S.A.

CHAYES, Abram J., A.B., LL.B.; American professor of law; b. 18 July 1922, Chicago; m. Antonia Handler 1947; one s. four d.; ed. Harvard Univ.; U.S. Army service 1943-46; Legal Adviser to Gov. of Connecticut 1949-50; Assoc.-Gen. Counsel President's Materials Policy Comm. 1951; Law Clerk to Justice Felix Frankfurter 1951-52; private legal practice 1952-55; Asst. Prof. of Law, Harvard Univ. 1955-58, Prof. of Law 1958-61, 1965-; The Legal Adviser, Dept. of State 1961-64; Chair. Tech. Coordinating Cttee., Int. Nuclear Fuel Cycle Evaluation 1977-78; Guest Scholar, The Brookings Inst. 1977-78; Fellow, American Acad. of Arts and Sciences; mem. Bars of Washington, D.C., Conn. and Mass., American Law Inst., American Soc. of Int. Law, Assen. of the Bar of City of New York. *Publications:* The International Legal Process, (with T. Ehrlich and A. Lowenfeld) 1968, 1969, ABM, An Evaluation of the Decision to Deploy an Anti-Ballistic Missile System (with J. Wiesner) 1969, The Cuban Missile Crisis 1974. *Address:* c/o Harvard Law School, Cambridge, Mass. 02138; 2101 Connecticut Avenue, N.W., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* (617) 495-3122 (Office).

CHEBOTAREV, Dmitriy Fedorovich; Soviet gerontologist; b. 17 Sept. 1908, Kiev; ed. Kiev Medical Inst.; Intern Physiotherapeutical Inst., Chernigov 1933-36; Postgraduate 2nd Kiev Medical Inst. 1936-40; Army Surgeon 1941-44; Postgraduate, Senior Research Assoc. 1945-53; Deputy Dir. Inst. of Clinical Medicine, Kiev 1953-54, Prof. 1954; Chair. Learned Council of the U.S.S.R. Health Ministry 1955-64; Head of Chair, Inst. of Postgraduate Medical Training, Kiev 1953-61; Dir., Head of Dept., Inst. of Gerontology, U.S.S.R. Acad. of Medical Sciences 1961-; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1961, mem. 1966-; Pres. Int. Assen. of Gerontology 1972-75; Chair. U.S.S.R. Soc. of Gerontologists and Geriatrists; mem. U.S.S.R. and Ukrainian Socs. of Internists, Presidium U.S.S.R. Soc. of Cardiologists; Chair. Gerontology and Geriatrics Comm., U.S.S.R. Ministry of Public Health; Order of Red Banner of Labour (three times), Order of October Revolution; Merited Scientist Ukrainian S.S.R. *Publications:* Over 180 works; monographs Hypertensive Syndrome of Pregnancy, Internal Pathology in Clinic of Obstetrics and Gynaecology, Cardiovascular System of Ageing Organism, Care for Elderly and Old Patients, Geriatrics in the Clinic of Diseases of the Inner Organs. *Address:* Institute of Gerontology A.M.S. U.S.S.R., Vyshgorodskaya 67, 252655 Kiev-114, U.S.S.R. *Telephone:* 35-40-05 (Office).

CHEEK, James Edward, PH.D.; American university president; b. 4 Dec. 1932, Roanoke Rapid, N.C.; s. of late King Virgil Cheek and Lee Ella (Williams) Cheek; m. Celestine J. Williams 1953; one s. one d.; ed. Shaw Univ., Raleigh, N.C., Colgate-Rochester Divinity School, Drew Univ., Madison, N.J.; Teaching Asst. in Theology, Drew Theological School, Madison, N.J. 1959-60; Instructor in Western History, Union Junior Coll., Cranford, N.J. 1959-61; Asst. Prof. of New Testament and Historical Theology, Virginia Union Univ. 1961-63; Pres. Shaw Univ. 1963-69; Pres. Howard Univ. July 1969-; Dir. Union First Nat. Bank of Washington, Downtown Progress, Nat. Assen. for Equal Opportunity in Higher Educ., Nat. Capital Area Council, Nat. Council on Educating the Disadvantaged, Nat. Permanent Federal Savings and Loan Assen., People United to Save Humanity, UNA Bd. and Advisory Cttee., Joint Center for Political Studies, Trustee, Colgate-Rochester Divinity School, Washington Center for Metropolitan Studies, etc.; professional memberships include American Soc. of Church History, American Assen. of Univ. Profs., American Acad. of Religion; mem. numerous advisory boards and cttees.; various honorary degrees. *Address:* Howard University, Washington, D.C. 20059; 8035 16th Street, N.W., Washington, D.C. 20012, U.S.A. (Home).

CHEEVER, John; American writer; b. 27 May 1912, Quincy, Mass.; m. Mary M. Winternitz 1941; two s. one d.; regular contributor to The New Yorker; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Letters; American Nat. Book Award for The Wapshot Chronicle (first novel) 1957. *Publications include:* The Wapshot Chronicle, The Wapshot Scandal, The Brigadier and the Golf Widow, Bullet Park, The World of Apples 1973, and four vols. of short stories. *Address:* Cedar Lane, Ossining, N.Y., U.S.A.

CHÉHAB, Emir Maurice; Lebanese archaeologist and historian; b. 1904; s. of Emir Hafez; m. Olga Choribane 1945; two s. three d.; ed. Univ. St. Joseph, Beirut, Ecole du Louvre, and Ecole des Hautes Etudes Historiques, Paris; Conservator Lebanese Nat. Museum 1928; Chief of Antiquities Service 1937, Dir. 1944; Prof. Lebanese History, Ecole Normale and Gen. Diplomatic History, Ecole des Sciences Politiques 1945; Prof. of Oriental Archaeology, Inst. of Oriental Literature 1946; Prof., Ancient History, Univ. of Lebanon 1953-59; Dir. Tyre and Anjar Excavations 1950; Curator of Lebanese Antiquities 1953-59, Gen. Dir. 1959-. *Address:* Direction des Antiquités, rue de Damas, Beirut, Lebanon.

CHEHOU, Mehmet (*see* Shehu, Mehmet).

CHEKMAREV, Aleksandr Petrovich, DR.TECH.SC.: Soviet metallurgist; b. 12 Sept. 1902, Bolshaya Znamenka, Ukraine; ed. Dnepropetrovsk Mining Inst.; engineer, metallurgical plant 1927-30; Docent, Chief of faculty, Prof., Dnepropetrovsk Metallurgical Inst. 1931-41, 1944-; Head of Dept., Inst. of Ferrous Metallurgy, Ukrainian S.S.R. Acad. of Sciences 1948-75; Deputy Chief Engineer, Stalingrad Metallurgical Plant 1942; Prof. Magnitogorsk Mining Metallurgical Inst. 1942-44; mem. CPSU 1945-; Prof. 1934; Academician, U.S.S.R. Acad. of Sciences 1968-; State Prize 1941, 1949, Hero of Socialist Labour 1972, Order of Lenin (twice) and other decorations. *Address:* Institute of Ferrous Metallurgy, Dnepropetrovsk, U.S.S.R.

CHELI, Giovanni, M.THEOL., D.CN.L.; Italian ecclesiastic; b. 4 Oct. 1918, Turin; ed. Pontifical Lateran Univ., Pontifical Acad. for Diplomacy; ordained Roman Catholic priest 1942; Second Sec., Apostolic Nunciature in Guatemala 1952-55, First Sec., Madrid 1955-62; Counsellor, Nunciature in Rome 1962-67; served Council for Public Affairs of the Church, Vatican City 1967-73; Perm. Observer to UN Sept. 1973-; Archbishop of Santa Giusta, Sardinia 1978-; Knight Commdr. Orden de Isabel la Catolica (Spain), Ordine al Merito della Repubblica Italiana, Verdienstkreuz der Bundesrepublik Deutschland (Fed. Repub. of Germany). *Publications:* L'applicazione delle Riforme Tridentinenella diocesi di Asti 1952. *Leisure interests:* tennis, mountain climbing, reading, listening to classical music. *Address:* Permanent Observer Mission of the Holy See to the United Nations, 20 East 72nd Street, New York, N.Y. 10017, U.S.A.

CHELLI, Tijani; Tunisian politician; b. 23 March 1931, Nabeul; m. Chantal Jussiaux 1962; one s. two d.; ed. Collège Sadiki, Tunis and Ecole Polytechnique, Paris; engineer, Ministry of Public Works, Kef 1959-60; Deputy Chief Engineer of Roads and Bridges 1960; Dir. of Transport 1961; Dir. of Sea and Air Transport 1962; Pres., Dir.-Gen. Société Nationale des Chemins de Fer Tunisiens 1965-67; Dir. of Industry, Dept. of Planning and Nat. Economy 1967-69; Pres., Dir.-Gen. Industries Chimiques Maghrébines (I.C.M.) Jan.-Nov. 1969; Minister of Public Works 1969-70, of Economy 1970-72; Pres., Dir.-Gen. Investment Promotion and Industrial Land Agency 1973-75, Investment Promotion Agency 1976-; Chair. Econ. and Social Council 1976-; Grand Cordon de l'Ordre de la République. *Leisure interests:* shooting, swimming, reading. *Address:* Agence de Promotion des Investissements, 7 rue du Royaume de l'Arabie Saoudite, Tunis, Tunisia. *Telephone:* 282-155, 282-505.

CHELOMEY, Vladimir Nikolayevich; Soviet applied mathematician and engineer; b. 30 June 1914, Sedlets; ed. Kiev Aviation Inst.; Instructor, Kiev Aviation Inst. 1936-41; mem. CPSU 1941-; research work, Central Inst. Aircraft Engines and other research orgs. 1941-44; Prof., Bauman Higher Technical School, Moscow 1952-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-62, mem. 1962-; Deputy of the U.S.S.R. Supreme Soviet; mem. Int. Acad. of Astronautics 1974-; Lenin prize and other state prizes; Zhukovsky Gold Medal, Liapunov Gold Medal; Hero of Socialist Labour (2 gold stars), Order of Lenin (four times), Order of the October Revolution. *Publications:* Spring Theory 1938, The Dynamic Sta-

bility of Aircraft Structural Elements 1939, Pneumatic Servomechanisms 1954, Stability Increasing Possibility of Elastic Systems by Vibrations 1956, Investigation of Pneumatic and Hydraulic Servomechanisms 1958. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

CHEN CHI-TEH; Chinese government official; Political Commissar Hupeh PLA Mil. District 1978-. *Address:* People's Republic of China.

CHEN HO-CHIAO; Chinese soldier; Political Commissar, Second Artillery Corps, PLA 1976-. *Address:* People's Republic of China.

CH'EN HSI-LIEN; Chinese army officer; b. 1913, Hungan, Hupeh; ed. Red Army Acad.; joined CCP 1927; Battalion Commdr. 1931-33; on Long March 1934-35; Regimental Commdr. 1937; Commdr. 3rd Army Corps, 2nd Field Army 1949; Mayor of Chungking 1949; Commdr. of Artillery Force, People's Liberation Army 1951; Gen. 1955; Alt. mem. 8th Cen. Cttee. of CCP 1956; Commdr. Shenyang Mil. Region, PLA 1959-73; Sec. of N.E. Bureau, CCP 1963-67; Chair. Liaoning Revolutionary Cttee. 1968; mem. Politburo, 9th Cen. Cttee. of CCP 1969, Politburo, 10th Cen. Cttee. 1973; First Sec. CCP Liaoning 1971-73; Commdr. Peking Mil. Region, PLA 1974-78; Vice-Premier State Council 1975; mem. Politburo, 11th Cen. Cttee. of CCP 1977-, mem. Mil. Comm. CCP Cen. Cttee. 1978-. *Address:* People's Republic of China.

CHEN KUO-TUNG; Chinese government official; leading figure, Paochi (Shensi) Mil. Control Comm. 1949; Dir. Finance Dept., E. China Cttee. of Financial and Econ. Affairs 1949-50; mem. Cttee. of Financial and Econ. Affairs, E. China Mil. and Admin. Council and concurrently Dir. of its Finance Dept. 1950-52; mem. E. China Cttee. on Org. 1950; Dir. E. China Cttee. for Regulating and Distribution of Goods in Storage 1950; mem. E. China Cttee. for Govt. Offices Production Man. 1952; Vice-Minister of Finance, Cen. People's Govt. 1952-53; Vice-Minister of Food 1953; Sec. Leading Party Members' Group of CCP Cttee., Ministry of Food 1957; head, team of leading party members in rectification movement conducted in ministry 1957; mem. Cen. Famine Relief Cttee., for Nat. Conf. of Reps. of Outstanding Groups and Individuals in Culture and Educ. 1960, mem. Pres. of that Conf. 1960; del. as Specially Invited Personage to 4th CPPCC 1964; mem. Presidium CCP 11th Nat. Congress 1977-; mem. CCP 11th Cen. Cttee. 1977-; Dir., All-China Fed. of Supply and Marketing Co-operatives 1978-. *Address:* People's Republic of China.

CHEN MU-HUA, Miss; Chinese government and party official; mem. 10th Cen. Cttee. of CCP 1973; Minister for Econ. Relations with Foreign Countries 1977-, a Vice-Premier 1978; alt. mem. Politburo, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

CHEN PI-HSIEN; Chinese government official, b. 1911, Foochow, Fukien Province; Secretary Children's Bureau CCP Cen. Cttee.; Sec. S. Kiangsu Provincial Cttee. Communist Youth League 1935; with Ts'ai Hui-wen Commdr. S. Kiangsi Mil. Dist.; Sec. and Deputy Sec. CCP Kiangsi-Kwangtung Border Dist. Special Cttee. 1935; mem. CCP S. Kiangsi Dist. Special Cttee. 1936; Sec. CCP Cen. Kiangsu Dist. Cttee. 1937; Responsible Officer N. Kiangsu Army Corps. 1948; mem. Cen. Cttee. New Democratic Youth League 1949-53; Sec. CCP S. Kiangsu Dist. Cttee. 1949-52; Political Commissar, PLA, S. Kiangsu Mil. Dist. 1949-52; mem. E. China Mil. and Admin. Cttee. 1950-53; mem. S. Kiangsu Admin. Office 1950-52; Chair. Financial and Econ. Cttee. S. Kiangsu Admin. Office 1951-52; Fourth Sec. E. China Bureau CCP Cen. Cttee. 1952-54; Fourth Sec. CCP Shanghai Municipal Cttee. 1952-54; mem. E. China Admin. Cttee. 1953-54; Sec. Secr. CCP Shanghai Municipal Cttee. 1954-55; mem. Shanghai Municipal Fed. of Trades Unions 1955; mem. Shanghai Municipal People's Council 1955; Second Sec., Secr. CCP Shanghai Municipal Cttee. 1955-56; Sec. Secr. CCP Shanghai Municipal Cttee. 1956-65; mem. Exec. Cttee. China Welfare Inst. 1956; alt. mem. CCP 8th Cen. Cttee. 1956; Vice-Pres. Shanghai Branch Sino-Soviet Friendship Assen. 1957; Chair. Shanghai Municipal Cttee. CPPCC 1958; Political Commissar PLA, Shanghai Garrison HQ 1960; Sec. Secr., E. China Bureau CCP Cen. Cttee. 1964; mem. Pres. 4th Shanghai People's Political Consultative Conf. 1964; Chair. 4th Shanghai Municipal Cttee. CPPCC 1964; First Sec. CCP Shanghai Municipal Cttee. 1965-67; mem. Presidium 5th Shanghai People's Congress 1965; allegedly suppressed the Shanghai Worker Movement 1966; reportedly wrote a lengthy statement of confession 1967; tried by Shanghai workers at three televised struggles Dec. 1967, Mar. 1968, April 1968; mem. Presidium CCP 11th Nat. Congress 1977-; mem. CCP 11th Cen. Cttee. 1977-; First Sec. Hupeh CCP Prov. Cttee. 1978-; Chair. Prov. Revolutionary Cttee.1978. *Address:* People's Republic of China.

CH'EN TSAI-TAO; Chinese army officer; b. 1908, Macheng, Hupeh; guerrilla leader 1927; Commdr. 4th Army 1934, 2nd Column, Cen. Plains Field Army 1944; Commdr. Honan Mil. District, People's Liberation Army 1949, Wuhan Mil. Region, PLA 1954-67; Gen. 1955; Leader of Wuhan Incident uprising (an anti-Maoist army revolt during Cultural Revolution, for which he was criticized and removed from office) 20th July 1967; Deputy Commdr. Foochow Mil. Region, PLA 1973-; mem. Standing Cttee. 5th Nat. People's Congress 1978-. *Address:* People's Republic of China.

CHEN WEI-TA; Chinese government official; mem. Standing Cttee. CCP Chekiang Prov. Cttee. 1957; Vice-Gov. Chekiang 1958-64; mem. Pres. First Nat. Games 1959; Sec. CCP Chekiang Provincial Cttee. 1960; mem. 11th Cen. Cttee. CCP 1977-; Chair. Tientsin Municipal Revolutionary Cttee. 1978-; First Sec. Tientsin CCP Cttee. 1978-. *Address:* People's Republic of China.

CH'EN YUN; Chinese politician; b. 1905, Ching-pu, Kiangsu; joined CCP 1925; Trade Union activist 1925-27; mem. 6th Cen. Cttee. of CCP 1931; on Long March 1934-35; Deputy Dir. Org. Dept., CCP 1937, Dir. 1943; Dir. Peasants Dept., CCP 1939; mem. 7th Cen. Cttee. of CCP 1945; Vice-Premier, State Council 1949-74; Minister of Heavy Industry 1949-50; Sec., Secr. of Cen. Cttee., CCP 1954; Vice-Chair. CCP 1956-69; mem. Standing Cttee., Politburo of CCP 1956-69, 1978-; Minister of Commerce 1956-58; Chair. State Capital Construction Comm. 1958-61; mem. 9th Cen. Cttee. of CCP 1969, 10th Cen. Cttee. 1973, 11th Cen. Cttee. 1977; Exec. Chair. Presidium, Vice-Chair. Standing Cttee. 5th Nat. People's Congress. *Address:* People's Republic of China.

CH'EN YUNG-KUEI; Chinese party official; b. Shiyang, Shansi; Nat. Model Worker; Sec. CCP Tachai Production Brigade, Shansi 1963-; Vice-Chair. Shansi Revolutionary Cttee. 1967; mem. 9th Cen. Cttee. of CCP 1969; Sec. CCP Shansi 1971; mem. Politburo, Cen. Cttee. of CCP 1973; Vice-Premier State Council 1975-; mem. Politburo, 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

CHENERY, Hollis Burnley, B.S., PH.D.; American economist; b. 6 Jan. 1918, Richmond, Virginia; s. of Christopher Chenery and Helen Bates; m. 1st Louise Seamster 1942 (dissolved), two d.; m. 2nd Mary Montgomery 1970; ed. Arizona, Oklahoma and Harvard Univs.; officer, U.S. Army Air Corps 1942-46; Economist, U.S. Econ. Co-operation Admin., Paris 1949-50; Head, Programme Div., U.S. Mutual Security Agency, Rome 1950-52; Econ. Consultant to Pakistan Govt. 1955, Japanese Govt. 1956, UN 1957-61, Bank of Israel 1959-61, Bank of Sicily 1961, Govt. of South Korea 1970; Prof. of Econs., Stanford Univ. 1952-61; Asst. Admin. for Program, Agency for Int. Devt., Dept. of State 1961-65; Prof. of Econs. and mem. Center for Int. Affairs, Harvard Univ. 1965-70, Sr. Lecturer 1976–; Econ. Adviser to Pres., Int. Bank of Reconstruction and Devt. (World Bank) 1970-73, Vice-Pres. Devt. Policy 1973-; Dir. Southern Natural Gas Co., Ala. 1952-74; Fellow, Econometric Soc.; mem. American Econ. Assen., American Acad. of Arts and Sciences, Royal Econ. Soc.; Guggenheim Fellowship. *Publications:* with others Arabian Oil 1949, Interindustry Economics 1959, Studies in Development Planning 1970, Redistribution with Growth 1974, Patterns of Development 1950-1970 1975. *Leisure interests:* tennis, hiking, skiing. *Address:* The World Bank, 1818 H Street, N.W., Washington, D.C. 20433; 3033 West Lane Keys, N.W., Washington, D.C. 20007, U.S.A. (Home). *Telephone:* (202) 477-3665 (Office); (202) 338-4724 (Home).

CHENEY, Richard B.; American political administrator; b. 30 Jan. 1941, Lincoln, Neb.; m. Lynne Vincent; two d.; ed. Univ. of Wyoming, Univ. of Wisconsin; engaged on staff of Gov. of Wis. and as a Congressional Fellow on staff of ■ mem. of House of Reps.; also worked for an investment advisory firm; Exec. Asst. to Donald Rumsfeld 1969-71, Deputy 1971-73; Deputy Asst. to the Pres. 1974-75, Chief of White House Staff 1975-77; mem. American Political Science Assen.; Republican. *Address:* 902 South Beech Street, Casper, Wyo. 82601, U.S.A.

CHENG SHENG; Chinese politician; Minister of Communications Feb. 1979-. *Address:* People's Republic of China.

CHENG TIEN-HSIANG; Chinese politician; Minister of the Seventh Ministry of Machine Building Feb. 1979-. *Address:* People's Republic of China.

CHENG TZU-HUA; Chinese politician; Minister of Civil Affairs March 1978-. *Address:* People's Republic of China

CHENOT, Bernard, L. EN DR., D.SC.POL.; French politician; b. 20 May 1909, Paris; s. of André Chenot and Marcelle Pellerin; m. Clélie Schmit 1934; one s. two d.; ed. Lycée Montaigne, Lycée

Louis-le-Grand, Ecole libre des Sciences Politiques, Faculté de Droit, Paris; Chef de Cabinet in numerous Ministries 1932-39, including Public Health 1935, Public Works 1938 and 1939; Del.-Gen. of Tourism 1938-42; Sec.-Gen. Houillères nat. du Nord et du Pas de Calais 1944-46; Sec.-Gen. Conseil Economique 1951-58; Minister of Public Health and Population 1958-59 (de Gaulle Cabinet), 1959-61 (Debré Cabinet), Minister of Justice 1961-62 (Debré Cabinet); mem. Conseil Constitutionnel 1962; Président de la Cité internationale de l'Univ. de Paris; Pres. of Compagnies d'assurances générales 1964, Groupe des Assurances Générales de France 1968-70; Admin. Paribas Int. 1968-70; Pres. Comité de liaison d'étude et d'action républicaines 1968-71; Vice-Pres. Conseil d'Etat 1971-; Pres. Institut Français des Sciences Administratives 1974; fmr. Prof. Ecole Libre des Sciences Politiques, Inst. d'Etudes Politiques; Pres. French Section, Centre Européen de l'Entreprise Publique; mem. Admin. Council, Fondation des Sciences Politiques 1976, mem. Acad. des Sciences Morales et Politiques 1976, Sec. Perpetuel 1978; Commdr. Légion d'honneur, Grand Cross, Sovereign Order of Malta, Gran Ufficiale, Ordine del Merito della Repubblica Italiana, Grand Croix Ordre de St.-Charles, Grand Croix Ordre du Cèdre (Lebanon), Grand Officier de l'Ordre de la Couronne (Belgium), Médaille d'Or, Education Physique et des Sports. *Publications:* Organisation économique de l'état 1951, Les Entreprises nationalisées (Collection Que sais-je?) 1956; various published lectures, including Les Institutions administratives de la France and Histoire des doctrines politiques, Etre Ministre 1967. *Leisure interests:* literature, sport. *Address:* 2 square Racan, 75016 Paris, France. *Telephone:* 261-52-29.

CHERENKOV, Pavel Alekseyevich; Soviet physicist; b. 28 July 1904, Novaya Chigla, Voronezh; ed. Voronezh Univ.; discoverer of the Cherenkov Effect; mem. Inst. of Physics, U.S.S.R. Acad. of Sciences; mem. CPSU 1946; Nobel Prize for Physics (with Tamm and Frank) 1958; Corresp. mem. Acad. of Sciences 1964-70, Academician 1970-; State Prize (three times), Order of Lenin (twice), Order of Red Banner of Labour (twice), Badge of Honour and other decorations. *Address:* Lebedev Physics Institute of U.S.S.R. Academy of Sciences, Leninsky Prospekt 53, Moscow, U.S.S.R.

CHERKASSKY, Shura; Russian-born American pianist; b. 7 Oct. 1911, Odessa; s. of Isaac Cherkassky and Lydia Schlemenson; m. Genia Ganz 1946 (divorced 1948); no c.; ed. Curtis Inst. of Music, Philadalphia; studied under his mother and then Josef Hofmann; emigrated to U.S.A. 1922; debut Baltimore 1923; first major European tour 1946; numerous world tours and frequent tours of Germany, U.S.A. and U.S.S.R. in particular; regular contributor to Salzburg Festival concerts; has recorded for Deutsche Grammophon, Philips, Decca. *Leisure interest:* constant travelling. *Address:* c/o Ibbs and Tillett Ltd., 124 Wigmore Street, London, W.1, England. *Telephone:* 01-486 4021.

CHERMAYEFF, Serge, F.R.I.B.A., F.R.S.A.; American (b. Russian) architect, planning consultant and painter; b. 8 Oct. 1900, Russia; m. Barbara Maitland May 1928; two s.; practised in England and became a British citizen; went to U.S.A. 1940, became U.S. citizen 1946; essayist, lecturer, teacher, critic; fmr. Pres. Chicago Inst. of Design; fmr. Prof. Harvard Graduate School of Design; Emer. Prof. Yale Univ.; Hon. Dr. of Arts (Washington Univ.) 1967; Chicago Art Inst. Award 1947, 1949, Gold Medal, Royal Inst. of Canadian Architects 1974. *Publications:* Community and Privacy (with Christopher Alexander) 1963, The Shape of Community 1971, Design for Common Good (selected writings 1930-74) 1977. *Leisure interests:* painting, writing. *Address:* Wellfleet, Mass., U.S.A. *Telephone:* (617) 349-3321.

CHERN, Shiing-Shen, B.S., M.S., D.SC.; American (naturalized 1961) professor of mathematics; b. 26 Oct. 1911, Kashing, China; s. of Lien Chin Chern and Mei Han; m. Shih Ning Cheng 1939; one s. one d.; ed. Nankai Univ., Tientsin, Tsing Hua Univ., Peking, and Univ. of Hamburg, Germany; Prof. of Mathematics, Tsing Hua Univ., Peking 1937-43; mem. Inst. for Advanced Study, Princeton, N.J., U.S.A. 1943-45; Acting Dir. Inst. of Mathematics, Academia Sinica, Nanking, China 1946-48; Prof. of Mathematics, Univ. of Chicago, U.S.A. 1949-60, Univ. of Calif. at Berkeley 1960-; mem. Academia Sinica, Nat. Acad. of Sciences (U.S.A.), American Acad. of Arts and Sciences; Hon. mem. Indian Mathematical Soc.; Corresp. mem. Brazilian Acad. of Sciences; Hon. LL.D. (Chinese Univ. of Hong Kong) 1969; Hon. D.Sc. (Univ. of Chicago) 1969, (Univ. of Hamburg, Germany) 1971; Nat. Medal of Science (U.S.A.) 1975. *Publications:* scientific papers in various journals. *Address:* 8336 Kent Court, El Cerrito, Calif. 94530, U.S.A. (Home). *Telephone:* 415-232-4148.

CHERNENKO, Konstantin Ustinovich; Soviet politician; b. 24 September 1911, Bolshaya Tes; ed. CPSU Higher Party School and Kishinev Pedagogical Inst.; mem. CPSU 1931-; Head of Dept. Young Communist League (YCL) raion cttee.; Sec. of border guard party cttee.; head of dept. of raion cttee., CPSU 1929-41; Sec. Krasnoyarsk Territory Cttee. CPSU 1941-43; Sec. Penza Region Cttee. CPSU 1945-48; Head of Agitation and Propaganda of Cen. Cttee. of CP of Moldavia 1948-56, Head of Section, Dept. of Agitation and Propaganda of Cen. Cttee. CPSU 1956-60; Head of Secr. of Presidium of Supreme Soviet of the U.S.S.R. 1960-65, First Vice-Pres. of Presidium 1978-; Head of General Dept. of Cen. Cttee. CPSU 1965-; Deputy to Supreme Soviet 1966-; Cand. mem. of Cen. Cttee. CPSU 1966-71, mem. 1971-76, Sec. 1976-; mem. Politburo CPSU 1977-78, 1978-; Order of Lenin (twice), Hero of Socialist Labour 1976, and other decorations. *Address:* Central Committee of the Communist Party of the Soviet Union, Staraya pl. 4, Moscow, U.S.S.R.

CHERNIGOVSKY, Vladimir Nikolayevich; Soviet physiologist and neurophysiologist; b. March 1907, Yekaterinburg, now Sverdlovsk; s. of Nikolai E. and Natalia P. Chernigovsky; m. Natalia V. Chernigovsky; one s. one d.; ed. Perm State Univ.; began physiological investigations of circulation, hæmatology and neurophysiology 1933; Prof. of Physiology, Naval Medical Acad., Leningrad 1943-52; Dir. of Inst. of Normal and Pathological Physiology, Moscow 1952-59; Vice-Pres. Acad. of Medical Sciences 1953-56; Dir. Pavlov Inst. of Physiology 1959-77; Head of Lab. of Physiological Interception 1977-; mem. U.S.S.R. Acad. of Medical Sciences, corresp. mem. section of Physiology, U.S.S.R. Acad. of Sciences 1953-60, mem. 1960-, Academic Sec. 1963-67; Corresp. mem. Romanian Acad. of Sciences, Hon. mem. J. Purkyňe Soc., Czechoslovakia 1962, Int. Assen. Study of Pain 1976; mem. Int. Acad. of Astronautics 1965; Deputy to U.S.S.R. Supreme Soviet; Pavlov Prize 1943, Pavlov Gold Medal 1964 and I. M. Sechenov Prize 1974, U.S.S.R. Acad. of Sciences; Order of Red Banner of Labour (twice), Order of Red Star, Order of the Friendship of the Peoples. *Publications include:* The Afferent Systems of the Internal Organs 1943, Problems of the Nervous Regulation of Blood Compositions 1953, Morpho-physiological Structure of Interoceptive Analyser and Some Details of its Function 1959, The Interceptors 1960, Participation of Some Structures of Limbic System in Conducting Visceral and Somatic Signals 1964, Morpho-physiological Architecture of Subcortical and Cortical Projections of Afferent Fibres of Vagus 1964, Cortical and Subcortical Representation of Visceral Systems 1973. *Address:* I. P. Pavlov Institute of Physiology, Nabereznaja Markarova 6, Leningrad 199164, U.S.S.R.

CHERNYAKOV, Yuriy Nikolayevich; Soviet diplomatist; b. 1 Aug. 1918, Gorky; ed. Gorky Inst. of River Transport Engineers and Higher Diplomatic School; instructor, Gorky Inst. of River Transport Engineers 1943-46; entered diplomatic service 1948; Third Sec., Archives, Ministry of Foreign Affairs 1948-50; Third, Second then First Sec., Soviet Embassy, Budapest 1950-55; Counsellor, Ministry of Foreign Affairs 1955-57, Soviet Embassy, Budapest 1957-59; Deputy Head, Press Dept. 1959-65; Counsellor, Minister-Counsellor, Soviet Embassy, Washington, D.C. 1965-70; Head, Press Dept., Ministry of Foreign Affairs 1970-73; Sec.-Gen., Ministry of Foreign Affairs 1973-77; Amb. to Syria 1977-; Badge of Honour, Order of the Great Fatherland War, Order of the Red Banner of Labour, Order of the Friendship of Peoples and other decorations. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya Ploshchad, Moscow, U.S.S.R.

CHERVONENKO, Stepan Vasiliyevich, M.SC.; Soviet diplomatist; b. 16 Sept. 1915, Okop, Poltava; s. of Vassily Chervonenko and Agafia Kiritchenko; m. Loudmilla Chervonenko 1948; ed. Kiev State Univ.; headmaster, secondary school 1937-41; mem. CPSU 1940-; Soviet Army service 1941-44; teacher of Marxism-Leninism, Deputy Dir. Cherkass Pedagogical Inst. 1944-48; on staff of Cen. Cttee. CP Ukraine 1949-56; Sec. Cen. Cttee. CP Ukraine 1956-59; Amb. to People's Repub. of China 1959-65, to Czechoslovakia 1965-73, to France (also accred. to Madagascar) 1973-; mem. Cen. Cttee. CPSU 1961-, parliamentary group of Supreme Soviet; Deputy to Supreme Soviet of U.S.S.R. 1958, and to S.S.R. of Ukraine; Order of Lenin (three times), Order of Red Banner of Labour, Order of White Lion, Order of October Revolution and other decorations. *Leisure interests:* hunting, sport. *Address:* U.S.S.R. Embassy, 79 rue de Grenelle, 75007 Paris, France.

CHESHIRE, Group Captain Geoffrey Leonard, V.C., D.S.O., D.F.C., B.A.; British air force officer (retd.); b. 7 Sept. 1917, Chester; s. of the late Prof. G. C. Cheshire, F.B.A., D.C.L. and Primrose (Barstow) Cheshire; m. Margaret Susan Ryder, O.B.E.; one s. one d.; ed. Stowe School, Merton Coll., Oxford; Perm. Comm. 1939; served 1939-45 in Bomber Command; Wing Commdr. commanding 617 Squadron (The Dambusters) 1943; official British observer at dropping of atomic bomb on Nagasaki 1945; Founder Cheshire Foun-

dation Homes for the Disabled (operating 170 homes in 32 countries) and co-founder Ryder Cheshire Mission for the Relief of Suffering; Humanitarian Award, Variety Clubs Int. (with Sue Ryder-Cheshire) 1974. *Publications:* Bomber Pilot 1943, Pilgrimage to the Shroud 1956, Face of Victory 1961; Films: Dilip 1971, To Be A Pilgrim 1972. *Leisure interests:* tennis, photography. *Address:* Cavendish, Suffolk, England.

CHESTER, Sir (Daniel) Norman, Kt., C.B.E., M.A.; British political scientist; b. 27 Oct. 1907, Manchester; s. of Daniel and Edith Chester; m. Eva Jeavons 1936; ed. Manchester Univ.; Rockefeller Fellow 1935-36; Lecturer in Public Admin., Manchester Univ. 1936-45; mem. Economic Section, War Cabinet Secretariat 1940-45; Official Fellow, Nuffield Coll., Oxford 1945-54, Warden 1954-78; mem. Oxford City Council 1952-74; fmr. Chair. and now Vice-Pres. Royal Inst. of Public Admin.; fmr. Pres. Int. Political Science Assen.; Chair. Oxford Centre for Management Studies 1965-75; Chair. Football Grounds Improvement Trust; mem. Civil Service College Advisory Council; fmr. mem. South-East Regional Econ. Planning Council; Corresp. mem. Acad. des Sciences Morales et Politiques, Inst. de France; fmr. Editor Public Administration; Hon. D.Litt.; Chevalier, Légion d'honneur. *Publications:* Public Control of Road Passenger Transport 1936, Central and Local Government, Financial and Administrative Relations 1951, The Nationalised Industries 1951, Lessons of the British War Economy (Editor) 1951, Organisation of British Central Government 1914-1956 (Editor) 1957, Questions in Parliament (with Mrs. Bowring) 1962, The Nationalisation of British Industry 1945-51 1975. *Leisure interests:* football and bridge. *Address:* 136 Woodstock Road, Oxford, England. *Telephone:* Oxford 55323 (Home).

CHEVALIER, Louis; French university professor and political scientist; b. 29 May 1911; ed. Ecole Normale Supérieure; Prof. Coll. de France; Prof. Institut d'Etudes Politiques de Paris; mem. Conseil supérieur de la Recherche Scientifique; Pres. du Conseil Scientifique du Centre Int. d'Etude des Problèmes Humains de Monaco; mem. Conseil Economique et Social du District de Paris; Hon. degree (Columbia); Commdr. de la Légion d'honneur. *Publications:* Les paysans, Le problème démographique nord-africain, La formation de la population parisienne, Madagascar, Démographie générale; contributor to Population, Le choléra de 1832, Classes laborieuses et classes dangereuses, Les Parisiens, Histoire anachronique des Français, L'assassinat de Paris. *Address:* Collège de France, 11 place Marcelin-Berthelot, 75005 Paris, France.

CHEVALIER, Roger; French aeronautical engineer; b. 3 May 1922, Marseilles; m. Monique Blin 1947; two s.; ed. Ecole Polytechnique and Ecole Nationale Supérieure de l'Aéronautique; Head of Dept., Aeronautical Arsenal 1948-53; Chief Engineer, Nord-Aviation 1954-60; Technical Dir. Soc. pour l'Etude et la Réalisation d'Engins Balistiques (SEREB) 1960-, Dir.-Gen. 1967; Gen. Man. Société Nationale de l'Industrie Aérospatiale (SNIAS), Vice-Pres. 1974-76, Exec. Senior Vice-Pres. 1976-; Pres. Assen. Aéronautique et Astronautique de France; mem. Int. Acad. of Astronautics; Officier Légion d'honneur; Médaille de l'Aéronautique, Prix Galabert 1966, Commdr. Ordre national du mérite. *Leisure interests:* tennis, hunting, reading. *Address:* 4 rue Edouard Detaille, 75017 Paris, France. *Telephone:* CAR 59 28.

CHEVALLAZ, Georges-André, D.LITT.; Swiss politician; b. 7 Feb. 1915, Lausanne; m. Madeleine Roch 1945; two s.; ed. Univ. of Lausanne; Teacher, School of Commerce 1942-55; Dir. Canton Library, Reader in Diplomatic History, Univ. of Lausanne 1955-58; Syndic de Lausanne 1957-73; Nat. Councillor 1959-73; mem. Fed. Council 1973-, Head of Finance and Customs Dept. 1974-; Vice-Pres. of Switzerland Jan. 1979-; Radical Democrat. *Publications:* Aspects de l'agriculture vaudoise à la fin de l'ancien régime 1949, Histoire générale de 1789 à nos jours 1957, 1967, 1973, Les grandes conférences diplomatiques 1964, La Suisse ou le sommeil du juste 1967, etc. *Address:* Département des Finances et des Douanes, Bernerhof, Bundesgasse 3, Berne (Office); Elfenauweg 91, Berne, Switzerland (Home). *Telephone:* 61 60 01 (Office); 44 78 78 (Home).

CHEVRIER, Hon. Lionel, P.C., C.C., Q.C.; Canadian lawyer; b. Cornwall, Ont.; s. of Joseph E. Chevrier and Malvina de Repentigny; m. Lucienne Brûlé 1932; three s. three d.; ed. Cornwall, Ont., High School, Cornwall Collegiate Inst., Univ. of Ottawa, Osgoode Hall (Law School), Toronto, Ont.; Called to Bar (Ont.) 1928, (P.Q.) 1957; apptd. K.C. 1938; mem. of Dominion Parl. 1935-54, 1957-63; Deputy Chief Govt. Whip 1940; Chair. Parl. Sub-Cttee. on War Production (Parl. War Expenditure Cttee.) 1942; Parl. Asst. to Minister of Munitions and Supply 1943; Minister of Transport 1945-54; Pres. The St. Lawrence Seaway Authority 1954-57; Pres. of Privy Council 1957; Minister of Justice and Attorney-Gen. 1963-64; High Commr. for Canada in U.K. 1964-67; Commr.-Gen. for Overseas Visits, Expo 67, Montreal; Head of Special Mission to Francophone Countries of Africa 1968; Head of Mission to Canadian Consular Posts in U.S.A. 1968; retd. from govt. service 1969; mem. of law firm Geoffrion, Prud' homme, Chevrier, Cardinal, Marchessault, Mercier and Greenstein; Pres. Québecair; Chair. UN Inst. for Training and Research Del. to Study Aspects of Waterways for Int. Navigation, Buenos Aires 1970; Del. Bretton Woods Conf. 1945; Chair. Canadian del. to UN Gen. Assembly, Paris 1948; Freeman, City of London 1965; Hon. LL.D. (Univ. of Ottawa, Queen's Univ., Laval Univ.), Hon. D.C.L. (Bishop's Univ.). *Publication:* The St Lawrence Seaway 1959. *Leisure interests:* walking, reading, travelling. *Address:* 500 Place d'Armes, Montreal 126, P.Q., Canada.

CHEW, Geoffrey Foucar, PH.D.; American professor of physics; b. 5 June 1924, Washington, D.C.; s. of Arthur Percy Chew and Pauline Lisette Foucar; m. 1st Ruth Elva Wright 1945 (died 1971), one s. one d.; m. 2nd Denyse Mettel 1972, two s. one d.; ed. George Washington Univ. and Univ. of Chicago; Research Physicist, Los Alamos Scientific Lab. 1944-46; Research Physicist, Lawrence Radiation Lab. 1948-49, Head of Theoretical Group 1967-; Asst. Prof. of Physics, Univ. of California at Berkeley 1949-50, Prof. of Physics 1957-; Chair. Dept. of Physics 1974-78; Asst. Prof., then Assoc. Prof. of Physics, Univ. of Illinois 1950-55, Prof. 1955-56; Fellow, Inst. for Advanced Study 1956; Overseas Fellow, Churchill Coll., Cambridge 1962-63; Scientific Associate, CERN 1978-79; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Hughes Prize of American Physical Soc. 1962, Lawrence Award of U.S. Atomic Energy Comm. 1969. *Publications:* The S-Matrix Theory of Strong Interactions 1961, The Analytic S-Matrix 1966; over 100 scientific articles. *Leisure interests:* gardening, hiking. *Address:* Department of Physics, University of California, Berkeley, Calif. 94720 (Office); and Lawrence Radiation Laboratory, Berkeley, Calif. 94720; 10 Maybeck Twin Drive, Berkeley, Calif. 94708, U.S.A. (Home). *Telephone:* 642-4505 (Dept. of Physics); 843-2740, Ext. 5851 (Lawrence Radiation Lab.); 848-1830 (Home).

CHEYSSON, Claude; French public servant; b. 13 April 1920, Paris; s. of Pierre Cheysson and Sophie Funck-Brentano; m. Karene Schwarz 1969; three s. three d.; ed. Ecole Polytechnique and Ecole d'Administration, Paris; escaped from occupied France to Spanish prison 1943; Officer in the Free French Forces 1943-45; entered French Diplomatic Service 1948; attached to UN Mission in Palestine 1948; Head of French liaison office with Fed. German Govt., Bonn 1949-52; adviser to Prime Minister of Vietnam, Saigon 1952-54; Chef de Cabinet to French Prime Minister (Mendès-France) 1954-55; technical adviser to Minister for Moroccan and Tunisian Affairs 1955-56; Sec.-Gen. Comm. for Technical Co-operation in Africa (C.C.T.A.), Lagos 1957-62; Dir-Gen. Sahara Authority (Organisme Saharien), Algiers 1962-65; Dir.-Gen. Organisme de coopération industrielle, Algiers 1966; Amb. to Indonesia 1966-69; Pres. Entreprise minière et chimique and Pres. Dir.-Gen. Compagnie des potasses du Congo 1970-73; mem. Board Le Monde 1970-; Commr. for Devt. Aid, Comm. of European Communities 1973-; Dr. h.c. Univ. of Louvain; Officier, Légion d'honneur, Croix de guerre, Grand Cross, Liberia, Grand Officier, Chad, Cameroon, Lebanon, Togo, Tunisia, Upper Volta, Commdr. Central African Empire, Gabon, Mali, Indonesia; Joseph Bech Prize 1978. *Leisure interest:* skiing. *Address:* EEC Commission, 200 rue de la Loi, 1040 Brussels (Office); 15 avenue de la Faisanderie, 1150 Brussels, Belgium (Home).

CHI PENG-FEI; Chinese politician; b. 1910, Yung-chi, Shensi; ed. Mil. Medical Coll.; joined Communist Party 1931; on Long March in Medical Dept., Red Army 1935; Deputy Political Commissar, Army Corps, 3rd Field Army 1950; Amb. to German Democratic Repub. 1950-55; Vice-Minister of Foreign Affairs 1955-72; Acting Minister of Foreign Affairs 1968-72, Minister 1972-74; Sec.-Gen. of Nat. People's Congress 1974, Exec. Chair. Presidium 5th Nat. People's Congress 1978-; mem. 10th Cen. Cttee., CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

CHI TENG-K'UEI; Chinese party official; First Sec. CCP Loyang District, Honan 1959; Alt. Sec. CCP Honan 1966; Vice-Chair. Honan Revolutionary Cttee. 1968; Alt. mem. Politburo, 9th Cen. Cttee. of CCP 1969; mem. Politburo, 10th Cen. Cttee. of CCP 1973; First Political Commissar, Peking Mil. Region, People's Liberation Army 1974-78; Vice-Premier State Council 1975-; mem. Politburo 11th Cen. Cttee. of CCP 1977; Chair. Credentials Cttee. 5th Nat. People's Congress 1978-. *Address.* People's Republic of China.

CHI TIEN; Chinese politician; Minister of the First Ministry of Machine-Building 1979-. *Address:* People's Republic of China.

CHIANG CHIH-YUNG; Chinese soldier; First Political Commissar, Kiangsi Mil. District, PLA 1972-78. *Address:* People's Republic of China.

CHIANG CH'ING; Chinese party official; b. 1914; Chucheng, Shantung; m. Mao Tse-tung 1939 (died 1976); ed. Shantung Experimental Drama Acad., Tsinan; Librarian, Tsingtao Univ. 1933; Film Actress 1934-38; joined CCP 1937; Instructor Lu Hsun Art Acad., Yenan 1939; Head of Cen. Film Admin. Bureau, Propaganda Dept., CCP 1949; with Ministry of Culture 1950-54; Organizer of Reforms in Peking Opera 1963; First Deputy Head of Cen. Cultural Revolution Group 1966; leading pro-Maoist activist in propaganda work during Cultural Revolution 1965-69; mem. Politburo, 9th Cen. Cttee. of CCP 1969, Politburo, 10th Cen. Cttee. 1973; arrested ■ mem. "gang of four" 1976; expelled from CCP July 1977. *Address:* People's Republic of China.

CHIANG CHING-KUO, Gen.; Chinese politician; b. 18 March 1910, Chekiang Prov.; s. of late Gen. Chiang Kai-shek (Pres. of Repub. of China); m. Chiang Fang-liang; three s. one d.; ed. Sun Yat-sen Univ., Moscow, and U.S.S.R. Military and Political Inst.; Admin. Commr. for South Kiangsi 1939-45; Foreign Affairs Commr. of Mil and Political Admin. for N.E. China 1945-47; Deputy Econ. Control Supervisor for Shanghai 1948; Chair. Kuomintang Taiwan Province H.Q. 1949-50; Dir., Gen. Political Dept., Ministry of Nat. Defence 1950-54; mem. Reform Cttee. of Kuomintang 1950-52; Minister without Portfolio 1963; Deputy Minister of Nat. Defence 1964-65; Minister of Nat. Defence 1965-69; Vice-Premier 1969-72, Premier 1972-78; Pres. of Repub. of China 1978-; Chair. of Kuomintang 1975-; Deputy Sec.-Gen. Nat. Defence Council 1954-67; Chair. Nat. Gen. Mobilization Cttee. *Address:* c/o Office of the President, Taipei, Taiwan.

CHIANG HUA; Chinese party official; b. Hupeh; guerrilla activist with new 4th Army, CCP 1940; Mayor of Hangchow 1949-51; Deputy Sec. CCP Chekiang 1952-55, First Sec. 1952-68; Alt. mem. 8th Cen. Cttee. of CCP 1956; First Political Commissar Chekiang Mil. District, People's Liberation Army 1956-68; Prof. of Political Theories, Chekiang Univ. 1958; Sec. E. China Bureau 1965; criticized and removed from office during Cultural Revolution 1968; Alt. mem. 10th Cen. Cttee. of CCP 1973; mem. 11th Cen. Cttee. of CCP 1977; Pres. Supreme People's Court 1974-. *Address:* People's Republic of China.

CHIANG KAI-SHEK, Madame (Soong, Mayling), LL.D., L.H.D.; Chinese sociologist; ed. Wellesley Coll., U.S.A.; married (Pres.) Chiang Kai-shek 1927 (died 1975); first Chinese woman appointed mem. of Child Labour Comm.; inaugurated Moral Endeavour Assn.; established schools in Nanking for orphans of revolutionary soldiers; fmr. mem. Legislative Yuan; served as Sec.-Gen. of Chinese Comm. on Aeronautical Affairs; Dir.-Gen. New Life Movement; founded and directed Nat. Chinese Women's Assn. for War Relief and Nat. Assn. for Refugee Children; accompanied husband on mil. campaigns; Hon. Chair. American Bureau for Medical Aid to China and Cttee. for the promotion of the Welfare of the Blind; Patroness Int. Red Cross Cttee.; Hon. Chair. British United Aid to China Fund and United China Relief; First Hon. Mem. Bill of Rights Commemorative Soc.; first Chinese woman to be decorated by Nat. Govt. of China, awards include Gold Medal of Nat. Inst. of Social Sciences; L.H.D. John B. Stetson Univ., Bryant Coll., Hobart and William Smith Colls., Nebraska Wesleyan Univ., LL.D. Rutgers Univ., Goucher Coll., Wellesley Coll., Loyola Univ., Russell Sage Coll., Hahnemann Medical Coll., Univs. of Michigan and Hawaii, and Wesleyan Coll., Macon; Hon. F.R.C.S. (Eng.); Hon. mem. numerous socs. *Publications:* Sian: A Coup d'Etat 1937, China in Peace and War 1939, China Shall Rise Again 1939, This is Our China 1940, We Chinese Women 1941, American Tour Speeches 1942-43, Little Sister Su 1943, The Sure Victory 1955, Madame Chiang Kai-shek: Selected Speeches 1958-59, Album of Reproductions of Paintings Vol. I 1952, Vol. II 1962, Religious Writings 1963, Madame Chiang Kai-shek: Selected Speeches 1965-66, Album of Chinese Orchid Paintings 1971, Album of Chinese Bamboo Paintings 1972, Album of Chinese Landscape Paintings 1973, Album of Chinese Floral Paintings 1974. *Address:* Long Island, New York, U.S.A.

CHIANG NAN-HSIANG: Chinese politician; b. 1915; during war years in Yenan, co-ed. of Chung-Kuo ch'ing nien (China Youth) magazine; del. to the legis. body of Shensi-Kansu-Ninghsia Border Region Govt.; Dept. Head CCP Youth Work Cttee. 1949; Deputy Sec. New Democratic Youth League Cen. Cttee., and Standing Cttee., 1949; Sec. New Democratic Youth League Cen. Cttee., 1951; mem. All China Fed. of Democratic Youth Nat. Cttee., 1949-53; mem., Standing Cttee. First Nat. Cttee. CPPCC 1953; mem. Culture and Educ. Cttee. Govt. Admin. Council 1949-54; mem. Preparatory Cttee. All-China Athletic Federation, 1949-52; mem. Cinema Guidance Cttee., Ministry of Culture 1950; mem., Standing Cttee., China Peace Cttee., 1950-58; mem., Exec. Board, Sino-Soviet Friendship Assn., 1951-54; Pres. Tsinghua Univ., 1952; Sec. CCP Party Cttee. Tsinghua, 1957; Deputy to 1NPC Peking 1954-59 (re-elected 2NPC 1959-64, 3NPC 1964-65); Alt. mem., CCP 8th Cen. Cttee. 1956; Head China-Albania Friendship Assn. 1958; Vice-Minister of Educ. 1960-65; Minister of Higher Educ. 1965; Minister of Educ. 1979-. *Address:* People's Republic of China.

CHIANG WEI-CH'ING; Chinese party official; b. Kiangsu. Deputy Political Commissar, People's Liberation Army, Nanking 1949; Second Sec. CCP Kiangsu 1953-55, First Sec. 1956-68; Alt. mem. 8th Cen. Cttee. of CCP 1956; First Political Commissar Kiangsu Mil. District, PLA 1960-68; Sec. E. China Bureau, CCP 1966; criticized and removed from office during Cultural Revolution 1968; Alt. mem. 10th Cen. Cttee. of CCP 1973; First Sec. CCP Kiangsi 1975-; Chair. Kiangsi Revolutionary Cttee. 1975-; mem. 11th Cen. Cttee. of CCP 1977; Political Commissar Foochow PLA Mil. Region, First Political Commissar Kiangsi PLA Mil. District 1978-. *Address:* People's Republic of China.

CHIANG YI-CHEN; Chinese politician. Minister of Public Health 1977-; Vice-Chair. Cen. Patriotic Health Campaign Cttee. 1978-. *Address:* People's Republic of China.

CHIANG YU-AN; Chinese army officer. Commdr. Ninghsia Mil. District, People's Liberation Army 1972-. *Address:* People's Republic of China.

CHIAO HSIAO-KUANG; Chinese party official. Deputy Sec. CCP Kwangsi 1953, Sec. 1961-66, 1973-76, First Sec. 1977-; Vice-Chair. Kwangsi Revolutionary Cttee. 1968-76, Chair. 1977-; First Sec. CCP Kwangsi and Chair. Kwangsi Revolutionary Cttee. 1977; First Political Commissar, Kwangsi Mil. District PLA 1977-; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

CHIARI, Roberto; Panamanian businessman and politician; b. 2 March 1905; sugar manufacturer; President of Panama 1960-64; Conservative. *Address:* Panama City, Panama.

CHIBA, Saburo; Japanese industrialist and politician; b. 1894; ed. Tokyo Imperial and Princeton Univs.; entered Royal Oil Co., U.S.A. 1921; Dir. Japanese Business Joint Organisation 1922; mem. House of Reps. 1925-; Dir. South American Devt. Co. 1928; Dir. and Chief of Sales Dept., Jijishimpo Newspaper Co. Ltd. 1932; Man. Dir. Showa Petroleum Co. Ltd. 1935; Pres. Japan Petrochemical Industry Co. Ltd. 1938; Vice-Pres. Technical Authority 1945; Gov. Miyagi Prefecture 1945; Sec.-Gen. Democratic Party 1949; Dir. Tokyo Agricultural Univ. 1951, Pres. and Chair. Bd. of Dirs. 1955; Chair. Finance Cttee. House of Reps. 1953; mem. Gen. Affairs Cttee. 1963-;Minister of Labour 1954-55; Chief Dir. Soshinkai (LDP political group) 1960-, mem. Bd. of Counsellors LDP 1969-; Pres. Japanese Nat. Group, Asian Parliamentarians' Union 1965. *Address:* 31 Maruyama-cho, Bunkyo-ku, Tokyo, Japan.

CHIBESAKUNDA, Lombe Phyllis, BAR.-AT-LAW; Zambian lawyer and diplomatist; b. 5 May 1944; ed. Chipembi Girls' School, Nat. Inst. of Public Administration, Lusaka, Gray's Inn, England. State Advocate, Ministry of Legal Affairs 1969-72; private legal practice with Jacques and Partners 1972-73; M.P. for Matero Dec. 1973-; fmr. Solicitor-Gen. and Minister of State for Legal Affairs; Amb. to Japan 1975-77; High Commr. in the United Kingdom, concurrently Amb. to the Netherlands and the Holy See 1977-; Chief Zambian del., UN Law of the Sea Conf. 1975; founded Social Action charity, Lusaka; Life mem. Commonwealth Parl. Assn. *Address:* Zambia High Commission, Zambia House, 7-11 Cavendish Place, London, W.1. England.

CHIEH CHIN-WU; Chinese soldier. Commdr. Tibet Mil. District PLA 1975. *Address:* People's Republic of China.

CH'IEN CHENG-YING, Miss; Chinese government official; b. 1922; ed. Tatung Univ., Shanghai. Vice-Minister of Water Conservancy 1952-58, of Water Conservancy and Electrical Power 1958; Minister of Water Conservancy and Electrical Power 1975-79, of Water Conservancy Feb. 1979-; mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

CH'IEN CHIH-KUANG; Chinese government official. Vice-Minister of Textile Industry 1949, Minister 1978-; Minister of Light Industry 1975-78; mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

CH'IEN HSIN-CHUNG; Chinese governmental official. Vice-Minister of Public Health 1957-65; criticized and removed from office during Cultural Revolution 1967; Vice-Minister of Public Health 1977-; mem. Standing Cttee. 5th Nat. People's Congress 1978-, mem. Credentials Cttee. 1978-. *Address:* People's Republic of China.

CH'IEN MIN; Chinese government official. Minister of 4th Ministry of Machine Building 1978-79. *Address:* People's Republic of China.

CHIEPE, Miss Gaositwe Keagakwa Tibe, M.B.E., B.SC., M.A., LL.D. (HON.); Botswana diplomatist and politician; b. Serowe; d. of the late T. and S. T. Chiepe (née Sebina); unmarried; ed. secondary school in Tigerloof, S. Africa and Univs. of Fort Hare and Bristol. Educ. Officer, Botswana 1948, Senior Educ. Officer 1962, Deputy Dir. of Educ. 1965, Dir. of Educ. 1968; High Commr. in U.K. and Nigeria 1970-74, concurrently accredited to Sweden, Norway, Denmark, Fed. Repub. of Germany, France, Belgium and the EEC; Minister of Commerce and Industry 1974-77, of Mineral Resources and Water Resources 1977-. *Leisure interests:* music, gardening. *Address:* Ministry of Mineral Resources and Water Resources, Private Bag 0018, Gaborone, Botswana.

CHIH HAO-TIEN; Chinese army officer. Deputy Chief of Gen. Staff, PLA 1978-. *Address:* People's Republic of China.

CHIKAMI, Teruomi; Japanese banker; b. 11 Aug. 1902, Tokyo, Japan; s. of Kiyoomi and Toku Chikami; m. Mari Katayama 1930; one s. three d.; ed. Tokyo Univ. Man. Dir. The Mitsubishi Trust and Banking Corpn. 1958, Senior Man. Dir. 1962, Deputy Pres. 1964, Pres. 1965-71, Chair. 1971-75, Counsellor 1975-; Blue Ribbon Medal 1968, Second Order of Merit, Order of the Sacred Treasure 1974. *Leisure interests:* music, pictures. *Address:* The Mitsubishi Trust and Banking Corpn., 4-5, 1-chome, Marunouchi, Chiyoda-ku, Tokyo 100 (Office); No. 503 Town House Akasaka, 8-5-25 Akasaka, Minatoku, Tokyo, Japan (Home). *Telephone:* 212-1211 (Office); 403-8410 (Home).

CHILDS, Marquis William, A.B., A.M.; American writer; b. 17 March 1903; ed. Wisconsin and Iowa Univs.; with United Press 1923 and 1925-26; Corresp. St. Louis Post Dispatch 1926-44, Special Corresp. 1954-62, Washington Corresp. 1962-68; United Feature Syndicate Columnist 1944-54; Hon. LL.D. (Upsala Coll.); Pulitzer Prize for Commentary 1969, Order of North Star (Sweden), Order of Merit (Fed. Repub. of Germany). *Publications:* Sweden: The Middle Way, They Hate Roosevelt 1936, Washington Calling 1937, This is Democracy 1938, This is Your War, I Write from Washington 1942, The Cabin 1944, The Farmer Takes a Hand 1952, Ethics in Business Society (with D. Cater) 1954, The Ragged Edge 1955, Eisenhower: Captive Hero 1959, The Peacemakers 1961, A Taint of Innocence 1967, Witness to Power 1975. *Address:* 1701 Pennsylvania Avenue, N.W., Washington, D.C. 20036 (Office); 2703 Dumbarton Avenue, N.W., Washington, D.C. 20007, U.S.A. (Home).

CHILES, Lawton Mainor; American politician; b. 3 April 1930, Lakeland, Fla.; s. of Lawton Chiles; ed. Univ. of Florida; served U.S. Army, Korea 1953-54; law practice, Lakeland 1955-70; mem. Fla. House of Reps. 1958-66, Fla. Senate 1966-70; Senator from Florida 1971-; mem. Democratic Steering Cttee. 1971-; Govt. Award for Conservation 1964; Wildlife Conservation Award of Nat. Wildlife Fed. 1965; Democrat. *Address:* New Senate Office Building, Washington, D.C. 20510, U.S.A.

CHILLIDA JUANTEGUI, Eduardo; Spanish sculptor; b. 10 Jan. 1924, San Sebastian; ed. Colegio Marianistas, San Sebastian, and Univ. de Madrid; started sculpting 1947; first one-man exhbn., Madrid 1954; numerous one-man and group exhbns. in Europe, Japan and U.S.A.; has illustrated several books; Visiting Prof. Carpenter Centre, Cambridge, Mass. 1971; Premio del Comune di Venezia per la Scultura, Venice Biennale 1958, Prix Kandinsky 1960, Carnegie Prize, Pittsburgh Int. 1964, North Rhine Westphalian Prize for Sculpture 1965, Wilhelm Lehmbruck Prize, Duisburg 1966. *Address:* Villa Paz, Alto de Maracruz, San Sebastian, Spain.

CH'IN CHI-WEI; Chinese army officer; b. Hung-an, Hupeh. Company Commdr. Red Army 1931; Deputy Commdr. Yunnan Mil. District, People's Liberation Army 1954; Deputy Commdr. Kunming Mil. Region, PLA 1955, Commdr. 1958; Lieut.-Gen. PLA 1955; Sec. CCP Yunnan 1966-68; Commdr. Chengtu Mil. Region, PLA 1973-76; mem. 10th Cen. Cttee. of CCP 1973; 2nd Political Commissar, Peking Mil. Region, PLA 1975-78, First Political Commissar 1978-; mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

CHIPP, Hon. Donald Leslie, B.COM., A.A.S.A.; Australian politician; b. 21 Aug. 1925, Melbourne, Victoria; s. of L. T. Chipp; m. Monica T. Lalor 1951; two s. two d.; ed. Northcote High School; served in R.A.A.F. 1943-45; Registrar, Commonwealth Inst. of Accountants and Australian Soc. of Accountants 1950-55; Chief Exec. Officer Olympic Civic Cttee. 1955-56; Councillor, City of Kew 1955-61; mem. House of Reps. 1960-; Minister for Navy and Minister in charge of Tourist Activities 1966-68, Minister for Customs and Excise 1969-72; Minister assisting Minister for Nat. Devt. 1971-72; Minister for Social Security, Health, Repatriation and Compensation Nov.-Dec. 1975; Liberal to March 1977, Leader Australian Democratic Party 1977-. *Address:* Parliament House, Canberra, A.C.T. 2600; 60 Bluff Road, Black Rock, Victoria 3195, Australia (Home). *Telephone:* 62-2521 (Office).

CHIPUNZA, Chad Magumise, B.A.; Rhodesian politician, farmer and businessman; b. 1925, Rusape; m. Constance Chieza 1951; four s. two d.; ed. teacher training college. Headmaster, Highfield North School, Salisbury 1951-54; Exec. Officer Capricorn Africa Soc. 1955-57; Mem. of Parl. (United Federal Party) for Harare 1958-63, Party Whip, subsequently Parliamentary Sec. to Minister of External Affairs until Dec. 1963; Senior Lecturer, Domborhawa Training Centre 1964-65; Mem. of Parl. for Bindura 1965-; Leader of Official Opposition in Parl. (United People's Party) 1966-69, re-elected Leader of Opposition (Nat. People's Union) 1969; Pres. African Progressive Party 1974-76; mem. Bd. of Govs. Bernard Mizeki Coll.

CHIRAC, Jacques René; French politician; b. 29 Nov. 1932; s. of François Chirac and Marie-Louise Valette; m. Bernadette Chodron de Courcel 1956; two c.; ed. Lycée Carnot, Lycée Louis-le-Grand and Ecole Nationale d'Administration. Military Service in Algeria; Auditor, Cour des Comptes 1959-62; Head of Dept., Sec.-Gen. of Govt. 1962; Head of Dept., Private Office of M. Pompidou 1962-65; Counsellor, Cour des Comptes 1965-67; Sec. of State for Employment Problems 1967-68; Sec. of State for Economy and Finance 1968-71; Minister for Parl. Relations 1971-72, for Agriculture and Rural Devt. 1972-74, of the Interior March-May 1974; Prime Minister 1974-1976; Sec.-Gen. Union des Démocrates pour la République (UDR) Jan.-June 1975, Hon. Sec.-Gen. 1975-76; Pres. Rassemblement pour la République (fmrly. UDR) Dec. 1976, Hon. Sec.-Gen. 1977-; elected to Nat. Assembly 1967, 1968, 1973, 1976; mem. European Parl. 1979-; Counsellor-Gen., Meyrac 1968, 1970; Pres. Gen. Council, La Corrèze 1970-79; Municipal Counsellor, Sainte-Féréole 1965-; Mayor of Paris March 1977-. *Address:* 57 rue Boissière, 75116 Paris, France.

CHIRKOV, Boris Petrovich; Soviet actor; b. 13 Aug. 1901; ed. Leningrad Inst. of State Art; acted at Leningrad Theatre of the Young Spectator 1925-30, Leningrad Red Theatre 1930-32, Leningrad New Theatre of the Young Spectator 1936-38, Theatre Studio of the Film Actor, Moscow 1945-50, Moscow Pushkin Drama Theatre 1950-; People's Artist of the U.S.S.R. 1950; State prize-winner 1941, 1947, 1949, 1952; Order of Lenin (three times); Hero of Socialist Labour 1975; First prize in the All-Union Film Festival for the best male part (film Kievlanka) 1960, Principal roles: Maxim (Youth of Maxim 1935, Return of Maxim 1937, Vyborg Side 1939), Makhno (Alexander Parkhomenko 1942), Udivitelno (Front 1943), Dr. Chizhov (True Friends 1954), Biryukov (The Living and the Dead 1963), The Little Man (Extraordinary Mission 1965). *Publications:* Actor and his Role, from Thirty Years of the Soviet Cinematograph Industry 1950, 4 books of essays, About Us, The Actors, On the Screen and Behind the Screen 1961, Experience and Reflections 1964. *Address:* Moscow Gogol Theatre, 8A Kazakov Street, Moscow, U.S.S.R.

CHISSANO, Joaquim; Mozambique politician; b. 1939. Asst. Sec. to Pres., Frente de Libertação de Moçambique (FRELIMO) in charge of Educ. 1963-66, Sec. to Pres., FRELIMO 1966-69; Chief Rep. FRELIMO in Dar-es-Salaam 1969-74; Prime Minister, Transitional Govt. of Mozambique 1974-75, Minister of Foreign Affairs 1975-. *Address:* Ministry of Foreign Affairs, Maputo, Mozambique.

CHIT MYAING, U; Burmese retd. army officer and diplomatist; b. Oct. 1922; ed. Univ. of Rangoon; joined Burma Independence Army under Gen. Aung San 1942; Leader of Burmese Forces, Tharawaddy District during Liberation Movt. 1945; Battalion Commdr. 1948; Mil. Administrator 1950, Brigade Commdr. 1950; Insp.-Gen. Ministry of Immigration and Nat. Registration 1958-60; Commdt. Army Staff Coll. 1961; Minister of Trade and Industry 1963-64; retd. from Army 1967; Amb. to Yugoslavia 1968-71, to U.K. 1971-75; Sithu (Order of Burma). *Address:* c/o Ministry of Foreign Affairs, Rangoon, Burma.

CHITTY, Sir Thomas Willes, Bt., F.R.S.L. (pen name **Thomas Hinde**); British author; b. 2 March 1926, Felixstowe; s. of Sir Thomas Henry Willes Chitty; m. Susan Elspeth Hopkinson 1951; one s. three d.; ed. Winchester Coll. and Univ. Coll., Oxford; served in Royal Navy 1944-47; with Shell group 1953-60; Granada Arts Fellow, Univ. of York 1964-65; Visiting Lecturer, Univ. of Illinois 1965-67; Visiting Prof. Boston Univ. 1969-70; now freelance writer. *Publications:* Mr. Nicholas 1952, For the Good of the Company 1961, The Day the Call Came 1964, High 1968, Our Father 1975; travel: The Great Donkey Walk 1977. *Leisure interests:* eating, drinking, talking, listening, gardening, reading, travelling, thinking. *Address:* Bow Cottage, West Hoathly, Sussex, England.

CHŇOUPEK, Bohuslav, Ing.; Czechoslovak politician; b. 10 Aug. 1925, Bratislava; ed. Coll. of Econ. Sciences, Bratislava; mem. editorial staff, Pravda 1958-60; Moscow corresp., Pravda 1960-65; Chief Editor, Predvoj 1965-67; Deputy Minister of Culture 1967-69; Gen. Dir. Czechoslovak Radio 1969-70; Amb. to U.S.S.R. 1970-71; Minister of Foreign Affairs 1971-; alt. mem. Cen. Cttee., C.P. of Czechoslovakia 1967-69, mem. 1969-; Deputy to House of People 1972-; Klement Gottwald State Prize 1966; Order of Labour 1970, 1975. *Publications:* Dunaj sa končí v Izmaile (The Danube Ends in Izmail) 1956, Dobyvatel vesmíru 1961, Generál s levom (The General with the Lion), Milníky (Milestones) 1975. *Address:* Ministry of Foreign Affairs, Prague 1, Loretánské nám. 5, Czechoslovakia.

CHO, Kiyoko Takeda, D.LITT.; Japanese university professor; b. 20 June 1917, Hyogoken; d. of Takehira and Hiroko Takeda; m. Yukio Cho 1953; one s.; ed. Kobe Coll., Olivet Coll., U.S.A., Union Theological Seminary, Columbia Univ., U.S.A., and Tokyo Univ. Instructor in History of Thought, Int. Christian Univ. 1953-55, Asst. Prof. 1955-61, Prof. 1961-; Lecturer, Tokyo Univ. 1962-72; Dir. Cttee. on Asian Cultural Studies 1958-71; Research Assoc. Princeton Univ. 1965-66, on Asian Studies, Harvard Univ. 1966-67; Dean Liberal Coll. of Arts, Int. Christian Univ. 1967-69, Dean Graduate School 1970-74; Dir. Inst. of Asian Cultural Studies 1971-; mem. Pres. Cttee. World Council of Churches 1971-75; Senior Assoc. Fellow, St. Antony's Coll., Oxford 1975-76. *Publications:* Man, Society and History 1953, Conflict in Concept of Man in Modern Japan 1959, The Emperor System and Education 1964, Indigenization and Apostasy: Traditional Ethos and Protestants 1967, The Genealogy of Apostates: The Japanese and Christianity 1973, Between Orthodoxy and Heterodoxy 1976, The Dual Image of the Japanese Tenno Before and After 1945 1978; Editor Method and Objectives of History of Thoughts—Japan and the West 1961, Educational Thoughts and Activities of Japanese Protestants 1963, Christianity in Modern Japan 1964, Theory of Comparative Modernization 1970, Human Rights in Modern Japan 1970. *Leisure interests:* folk art, floriculture. *Address:* 1-59-6 Nishigahara Kita-ku, Tokyo, Japan. *Telephone:* 03-915-0886.

CHODOROW, Marvin, PH.D.; American physicist; b. 16 July 1913, Buffalo, N.Y.; s. of Isidor and Lena (Cohen) Chodorow; m. Leah Ruth Turitz 1937; two d.; ed. Univ. of Buffalo and M.I.T. Research Assoc., Pennsylvania State Coll. 1940-41; Instructor in Physics, Coll. of City of New York 1941-43; Senior Project Engineer, Sperry Gyroscope Co. 1943-47; Instructor, Stanford Univ. 1947, Prof. of Electrical Engineering and Applied Physics 1954, Barbara Kimball Browning Prof. of Applied Physics and Electrical Engineering 1975-78, Prof. Emer. 1978-, Dir. Microwave Lab. 1959-, Chair. Dept. of Applied Physics 1962-69; Lecturer, Ecole Normale Supérieure, Paris 1955-56; Visiting Research Assoc., Univ. Coll., London 1969-70; mem. Nat. Acad. of Sciences, Nat. Acad. of Engineering; Fellow, American Acad. of Arts and Sciences, American Physical Soc., Inst. of Electrical and Electronic Engineers; Fulbright Fellow, Cambridge Univ. (U.K.) 1962; W.R.G. Baker Award 1962; Hon. D. of Laws (Glasgow) 1972. *Publication:* Fundamentals of Microwave Electronics (co-author). *Leisure interests:* travel, bridge, reading. *Address:* Edward L. Ginzton Laboratory, Stanford University, Stanford, Calif. 94305; 809 San Francisco Terrace, Calif. 94305, U.S.A. (Home). *Telephone:* 415-497-0201 (Office); 415-327-2874 (Home).

CHOI, Kyong Nok; Korean army officer and diplomatist; b. 21 Sept. 1920, Eumsung-Gun, Choongbuk Province; m.; two s. two d.; ed. mil. colls. in Korea and U.S.A and George Washington Univ., Washington, D.C.; served in Korean Army 1946-61, rank of Commdg. Gen.; Supt. Mil. Acad. 1952, Nat. Defence Coll. 1959; Chief of Staff 1961; Amb. to Mexico 1967-71, also accred. to Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Nicaragua, Jamaica, Panama, Haiti; Amb. to U.K. 1971-74, also accred. to The Gambia and Mauritius; Minister of Transport 1974-77. *Leisure interests:* golf, tennis, swimming, skiing. *Address:* c/o Ministry of Transport, Seoul, Republic of Korea.

CHOI KYU-HAH; Korean politician; b. 16 July 1919, Wonju City, Kangwon-do; m.; two s. one d.; ed. Kyung Gi High School, Seoul, Tokyo Coll. of Educ., Japan and Nat. Daedong Inst., Manchuria. Prof., Coll. of Educ., Seoul Nat. Univ. 1945-46; Dir. Econ. Affairs Bureau, Ministry of Foreign Affairs 1951-52; Consul-Gen. Korean Mission, Japan 1952-57, Minister 1959; Vice-Minister of Foreign Affairs 1959-60; Amb. to Malaysia 1964-67; Minister of Foreign Affairs 1967-71; Special Pres. Asst. for Foreign Affairs 1971-75; Acting Prime Minister 1975-76; Prime Minister 1976-; Chief Korean del. to UN Gen. Assembly, 1967, 1968, 1969; del. to numerous int. confs. 1955-; Hon. Litt.D. (Hankook Univ. of Foreign Studies, Seoul); decorations from Ethiopia, Panama, El Salvador, Malaysia, Repub. of Viet-Nam, Tunisia and Belgium; Order of Diplomatic Service Merit. *Leisure interest:* angling. *Address:* 106, Samchung-dong, Chongno-ku, Seoul, Republic of Korea.

CHOI SIEW HONG, B.A.; Malaysian banker; b. 16 July 1921, Pahang; s. of late Choi Soon and of Chan Yew; m. Maria Lim Kheng Chew 1943; three s. two d.; ed. Clifford School, Kuala Lipis, Raffles Coll., Singapore, Univ. of Malaya; teacher in Malaysian Educ. Service 1946-55; joined Civil Service 1955; Asst. Sec. Econ. Div., Treasury, Asst. Sec. then acting Principal Asst. Sec., Econ. Sec., Prime Minister's Dept. 1955-59; Sec. Bank Negara Malaysia (Cen. Bank of Malaysia) 1959-60, Adviser 1960-66, Deputy Gov. 1966-72; Exec. Dir. IBRD 1972-76; Commdr. Order of Defender of the Realm (Johan Mangku Negara). *Address:* c/o Bank Negara Malaysia, Jalan Kuching, P.O.B. 922, Kuala Lumpur 01-02, Malaysia.

CHOJNOWSKA-LISKIEWICZ, Krystyna; Polish yachtswoman; b. 15 July 1936, Warsaw; ed. Polytechnical Univ., Gdańsk. Shipbuilding engineer, Gdańsk; first woman to circumnavigate the world solo 23 March 1976-20 March 1978, in Yacht 'Mazurek'; Commdr. Cross of Order Polonia Restituta 1978; Hon. Medal Czechoslovakian Women's Union 1978; Prize of Minister of Foreign Affairs 1978, and other decorations. *Address:* Ul. Gryglewskiego 13 m. 28, Gdańsk-Oliwa, Poland.

CHOMSKY, (Avram) Noam, M.A., PH.D.; American theoretical linguist; b. 7 Dec. 1928, Pennsylvania; s. of William Chomsky and Elsie Simonofsky; m. Carol Schatz 1949; one s. two d.; ed. Univ. of Pennsylvania; at M.I.T. 1955-, Prof. of Modern Languages 1961-66, Ferrari Ward Prof. of Modern Languages and Linguistics 1966–; Nat. Science Foundation Fellow, Princeton Inst. for Advanced Study 1958-59; American Council of Learned Socs. Fellow, Center for Cognitive Studies, Harvard Univ. 1964-65; mem. American Acad. of Arts and Sciences, Linguistics Soc. of America, American Philosophical Assn., American Acad. of Political and Social Science, Nat. Acad. of Sciences, etc.; Hon. D.H.L., (Chicago) 1967, (Loyola Univ., Swarthmore Coll.) 1970, (Bard Coll.) 1971, (Massachusetts) 1973; Hon. D.Lit., (London) 1967, (Delhi) 1972. *Publications include:* Syntactic Structures, Aspects of the Theory of Syntax, Cartesian Linguistics, Language and Mind, The Sound Pattern of English (with Morris Halle), American Power and the New Mandarins, At war with Asia 1970, Problems of Knowledge and Freedom 1971, Studies on Semantics in Generative Grammar 1972, For Reasons of State 1973, The Backroom Boys 1973, Bains de Sang (trans. of Bloodbaths in Fact and Propaganda) (with Edward Herman) 1974, Peace in the Middle East? 1974, Reflections on Language 1975, The Logical Structure of Linguistic Theory 1975, Essays on Form and Interpretation 1977, Human Rights and American Foreign Policy 1978. *Address:* Department of Linguistics, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Mass. 02139, U.S.A. *Telephone:* 617-253-7819 (Office).

CHONA, (Mathias) Mainza, BAR.-AT-LAW; Zambian politician; b. 21 Jan. 1930, Nampeyo, Monze; s. of Chief Chona; m. Yolanta Mainza 1953; two s. five d.; ed. Chona School, Chikuni Catholic Mission, Munali Govt. School, Lusaka and Gray's Inn, London. Interim Pres. UNIP (United National Independence Party) 1959-60, Vice-Pres. 1960-61, Gen. Sec. 1961-69, mem. Interim Exec. Cttee. 1969-71, mem. Cen. Cttee. 1971-; M.P. for Livingstone 1964, for Mankoya 1968; Minister of Justice 1964; Minister of Home Affairs 1964-66; Minister for Presidential Affairs 1967; Minister without Portfolio 1968; Minister for Central Province, Minister without Portfolio, Minister of Provincial and Local Govt. and Amb. to U.S.A. (also accred. to Chile) 1969-70; Vice-Pres. of Zambia 1970-73, Prime Minister 1973-75, 1977-78; Minister of Legal Affairs and Attorney Gen. 1975-77; Sec.-Gen. 3rd Non-Aligned Conf. (Lusaka) 1970; Pres. OAU Mediation Comm. 1971-; Chair. Zambian Industrial and Mining Corpn. Ltd. (ZIMCO); del. to numerous int. congresses. *Publication:* Kabuca Uleta Tunji (novel, Margaret Wrong Medal 1956). *Leisure interests:* reading, writing. *Address:* Freedom House, P.O. Box 302, Lusaka, Zambia.

CHOPRA, Mulk Raj, D.ENG.; Indian civil engineer; b. 18 Aug. 1906, Lahore (now Pakistan); s. of Dina Nath Chopra and Mrs. Chopra; m. Subersh Chopra 1933; one s. two d.; ed. Govt. Coll., Lahore and Thomason Coll. (now Roorkee Univ.); joined Irrigation Branch, Punjab 1930, rising to position of Under-Sec. to Govt., Punjab Irrigation Branch; promoted to Superintending Engineer 1948; in charge of Harrike Barrage construction 1949; Sec. Bhakra Control Bd. 1950; Joint Dir., Directorate of Construction and Plant Design, Bhakra Dam and Power Plant 1953, promoted to Chief Engineer, then Gen. Man. 1953; in charge of Beas Project Admin. 1960; Chair. Central Water and Power Comm., Govt. of India 1962-66; Vice-Chancellor, Roorkee Univ. 1966-71; Assessor Narmada Water Disputes Tribunal, New Delhi 1972-; Padma Bhushan Award

1967. *Address:* Narmada Water Disputes Tribunal, A-23-A, Kailash Colony, New Delhi 48 (Office); N-40 Panch Sheel Park, New Delhi, India (Home). *Telephone:* 631798 (Office); 78040 (Home).

CHORZEMPA, Daniel Walter, PH.D.; American pianist, organist, musicologist and composer; b. 7 Dec. 1944, Minneapolis; s. of Martin Chorzempa Sr. and Henrietta Reiswig; ed. Univ. of Minnesota; former church organist; Organ Instructor, Univ. of Minn. 1962-65; Fulbright Scholar, Cologne 1965-66; extensive piano and organ recitals in Germany, Denmark, Italy and U.K. etc. since 1968; J. S. Bach Prize, Leipzig 1968; records for Philips. *Leisure interests:* mathematics, architecture, poetry, renaissance history and literature. *Address:* 5000 Cologne 1, Grosse Budengasse 11, Federal Republic of Germany. *Telephone:* 231271.

CHOU CHIEN-JEN; Chinese biologist; b. 1887, Shaohsing, Chekiang; founder mem. China Assen. for Promoting Democracy 1945; Vice-Gov. Chekiang 1951-54, Gov. 1958-68; Vice-Minister of Higher Educ. 1954-58; Vice-Chair. Standing Cttee., Nat. People's Congress 1965-, Exec. Chair. Presidium 1978; Vice-Chair. Chekiang Revolutionary Cttee. 1968; mem. 9th Cen. Cttee. of CCP 1969, 10th Cen. Cttee. 1973, 11th Cen. Cttee. 1977; Exec. Chair. 5th Nat. Cttee. of CCP 1978, Vice-Chair. 1978-. *Address:* People's Republic of China.

CHOU CHUN-LIN; Chinese soldier; Commdr., Shanghai Garrison District, PLA 1970; Vice-Chair. Shanghai Revolutionary Cttee. 1970; Sec. Shanghai Party Cttee., CCP 1971; Deputy Commdr. Nanking Mil. Region, PLA 1972-; mem. 10th Cen. Cttee. CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

CHOU HUI; Chinese government official; mem. Hunan Provincial People's Council 1955; Deputy Sec. CCP Hunan Provincial Cttee. 1956; Sec. CCP Hunan Prov. Cttee. 1957; Head 2nd sub-group, large delegation to inspect Hunan's Campaign for Increasing Production and Practising Austerity 1959; First Sec. Inner Mongolia CCP Cttee. 1978-; mem. 11th Cen. Cttee. 1978-. *Address:* People's Republic of China.

CHOU TZU-CHIEN; Chinese government official; mem. 8th Route Army during Sino-Japanese war; Deputy Dir., Govt. Offices Bureau, Gen. Admin. Council 1951-54; Asst. to Minister, First Machine Building Ministry 1956-59, Vice-Minister 1960-78, Minister March 1978-; Alt. mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

CHOUARD, Pierre; French botanist and plant physiologist; b. 29 Oct. 1903; s. of Louis-Jules Chouard and Marie Loudierre; m. Denise Petit-Dutaillis 1929; two s. one d.; ed. Ecole Saint-Aspais, Melun, Univ. de Paris, Inst. catholique, Paris, and Ecole normale supérieure; at Ecole normale supérieure 1928-32; Teacher, Ecole nationale d'horticulture 1932-35; Editor-in-Chief Revue Horticole 1932-50; Dir. of Studies in Botany, Univ. of Bordeaux 1935-37; Prof. of Pure and Applied Botany, Univ. of Rennes 1937-38; Prof. of Agriculture, Conservatoire nat. des arts et métiers 1938-54; Prof. of Plant Physiology, Univ. of Paris 1953-; Founder, Lab. of the Phytotron 1953, Dir. 1957-; Sec.-Gen. 8th Int. Congress of Botany 1954; Pres. Botany Section, Int. Union of Biological Sciences 1953–; Vice-Pres. Int. Union of Biological Sciences 1955-64; mem. Acad. d'Agriculture 1953-; Pres. Botanical Soc. of France 1949-50; Dr. h.c. (Montreal and Louvain); Officier Légion d'honneur; Commdr. des Palmes academiques. *Letsure interest:* mountaineering. *Address:* 11 rue du Val-de-Grâce, 75005 Paris, France.

CHOW SHU-KAI; Chinese diplomatist; b. 21 Aug. 1913, Hupeh, China; ed. National Central Univ., Nanking and Univ. of London. Chinese Consul, Manchester, England 1944-45; Assoc. Prof. of Int. Relations, Univ. of Nanking 1946-47; Deputy Dir. Information Dept., Ministry of Foreign Affairs 1947-49; Minister, Chargé d'affaires, Manila 1953-55; Deputy Minister of Foreign Affairs 1956-60; Cabinet Minister and Chair. Overseas Chinese Affairs 1960-62; Amb. to Spain 1963-65, to U.S.A. 1965-71; Minister of Foreign Affairs 1971-72; Minister without Portfolio, Exec. Yuan (Cabinet) 1972-77; Ambassador to the Holy See 1978-. *Address:* Embassy of the Republic of China to the Holy See, Via Tolmino 31, Rome 00198, Italy.

CHOWDHURY, Abu Sayeed, M.A.; Bangladesh fmr. judge and politician; b. 31 Jan. 1921; s. of late Abdul Hamid Chowdhury; m. Kurshid Chowdhury 1948; two s. one d.; ed. Presidency Coll., Calcutta Univ. called to the bar, Lincoln's Inn 1947; Gen. Sec. Presidency Coll. Union 1941-42; Pres. U.K. Branch of All-India Muslim Students' Fed. 1946; Advocate Gen. East Pakistan 1960; mem. Constitution Comm. 1960-61; Judge, Dacca High Court 1961-72; Vice-Chancellor Dacca Univ. 1969-72; mem. UN Comm. on Human Rights 1971; Amb.-at-Large, High. Commr. in U.K. 1971, Head of Missions London and New York 1971-72; Pres. of Bangladesh 1972-73; Chancellor, all Bangladesh Univs. 1972-73; Minister of Foreign Affairs, also of Shipping and Ports 8-21 Aug. 1975; Hon. Research Fellow, Open Univ. 1977; mem. UN Sub-Comm. on Prevention of Discrimination and Protection of Minorities 1978-; Hon. Deshikottama Viswabharati (Shantiniketan) 1972; Hon. LL.D. (Calcutta) 1972. *Leisure interests:* reading, gardening. *Address:* 2 Paper Buildings, Temple, London E.C.4, England. *Telephone:* 01-353 9119.

CHRÉTIEN, Hon. Jean, P.C., B.A., LL.L.; Canadian lawyer and politician; b. 11 Jan. 1934, Shawinigan; s. of Wellie Chrétien and Marie Boisvert; m. Aline Chaîné 1957; two s. one d.; ed. Laval Univ., Quebec. Dir., Shawinigan Senior Chamber of Commerce 1962; Liberal mem. House of Commons 1963-; Parl. Sec. to Prime Minister, 1965, to Minister of Finance 1966; Minister without Portfolio 1967-68, of Nat. Revenue Jan.-July 1968, of Indian Affairs and Northern Devt. 1968-74; Pres. Treas. Bd. 1974-76; Minister of Industry, Trade and Commerce 1976-77, of Finance 1977-79. *Leisure interests:* skiing, fishing. *Address:* House of Commons, Ottawa, Ont.; 1711 Rhodes Crescent, Ottawa, Ont., Canada (Home).

CHRISTENSEN, Jens, M.POL.SC.; Danish diplomatist; b. 30 July 1921, Copenhagen; s. of Christian and Sophie Dorothea Christensen; m. Tove Jessen; one s. two d.; ed. Copenhagen Univ.; joined Danish Foreign Service 1945; Head of Section, Econ. Secretariat of Govt. 1947; Sec. to Del. to OECD 1949, to Del. to NATO 1952; Head of Section, Ministry of Foreign Affairs 1952; Acting Head of Div. 1954; Chargé d'affaires ad interim and Counsellor of Legation, Vienna, Austria 1957; Deputy Under-Sec., Ministry of Foreign Affairs 1960; Under-Sec. and Head of Econ./Political Dept. 1964-71; Head of Secretariat for European Integration 1966; Amb. Extraordinary and Plenipotentiary 1967; State Sec. for Foreign Econ. Affairs 1971; Amb. to U.K. Sept. 1977-; Danish Gov., Asian Devt. Bank 1967-73; Commdr., First Class, Order of Dannebrog; Knight Grand Cross, Order of the Icelandic Falcon; Knight Grand Cross, Order of the Northern Star (Sweden); Knight Grand Cross, Order of St. Olav (Norway). *Address:* Royal Danish Embassy, 55 Sloane Street, London, SW1X 9SR, England. *Telephone:* 01-235 1255.

CHRISTENSEN, Kai; Danish architect; b. 28 Dec. 1916, Copenhagen; s. of late J. C. Christensen and Jenny Christensen; m. Kirsten Vitrup Andersen 1941; two d.; ed. Royal Acad. of Fine Arts, Copenhagen; Dir., Technical Dept. of Fed. of Danish Architects 1947-52; Man. Dir. Danish Bldg. Centre 1952-61; Attached to Danish Ministry of Housing 1961-; Chief, Scandinavian Design Cavalcade 1962-68; mem. Danish Soc. of Arts and Crafts and Industrial Design 1942-74, Swedish Soc. for Industrial Design 1943, Fed. of Danish Architects 1943, The Architectural Assen., London 1955, Danish Cttee. for Bldg. Documentation 1950-, Danish Soc. of History, Literature and Art 1969, Royal Soc. of Arts, London 1977; Sec.-Gen. Nordisk Byggedag (Scandinavian Bldg. Conf.) VIII 1961, XIII 1977; Pres. Int. Conf. of Building Centres 1960; mem. Scandinavian Liaison Cttee. concerning Govt. Bldg. 1963-72; associated Editor Building Research and Practice/Bâtiment International (C.I.B. magazine); awards and prizes in public competition. *Major works:* designs for arts and crafts, graphic design, exhbns., furniture for the Copenhagen Cabinet Makers' Exhbns., and articles and treatises in technical magazines. *Leisure interests:* chamber music, chess, fencing. *Address:* Ministry of Housing, 12 Slotsholmsgade, DK-1216 Copenhagen K (Office); 100 Vester Voldgade, DK-1552 Copenhagen V, Denmark (Home). *Telephone:* 01-121337 (Home); 01-110201 (Office).

CHRISTIANS, F. Wilhelm, DR.JUR.; German banker; b. 1 May 1922; mem. of Man. Bd., Deutsche Bank AG; Pres. Bundesverband deutscher Banken e.V. (Fed. Assen. of German Banks); Chair. Supervisory Bd. Deutsche Centralbodenkredit-AG, Eisenbahn-Verkehrsmittel-AG, Mannesmann AG, Rheinisch-Westfälisches Elektrizitätswerk AG; Deputy Chair. Supervisory Bd. Bayer AG, Leverkusen, Karstadt AG, Klöckner-Humboldt-Deutz AG; mem. Man. Bd. Gerling-Konzern Versicherungs-Beteiligungs-AG, Vereinigte Industrie-Unternehmungen AG, Volkswagenwerk AG; mem. Admin. Bd., Liquiditäts-Konsortialbank GmbH; Vice-Pres. Rheinisch-Westfälische Börse. *Address:* Königsallee 45-47, 4000 Düsseldorf, Federal Republic of Germany.

CHRISTIANSEN, Ragnar Karl Viktor; Norwegian politician; b. 28 Dec. 1922, Drammen; ed. secondary school and Railway School; Norwegian State Railways, Drammen 1940, telegraphist 1942, Head Clerk 1961; mem. Nedre Eiker Municipal Council 1946-59, Chair. 1956-57; mem. Supervisory Bd. for Armaments Factories 1951-68; mem. Supervisory Bd. Konigsberg Arms Factory and Raufoss Munitions Factory 1969; mem. Consumers Council 1953-60; fmr. Chair. Nedre Eiker Labour Party; mem. Labour Party

Central Council 1965-; Minister of Finance 1971-72, of Transport and Communications 1976-78. *Address:* Arbeiderpartiet, Youngstorget 2, Oslo, Norway.

CHRISTIDIS, Theodore; Greek economist; b. 24 Oct. 1900, Constantinople; m. Anny Papastavrianou 1940; one s. one d.; ed. English High School, Constantinople and Ecole Supérieure de Commerce de Marseille; Dir. Athens Chamber of Commerce and Industry 1924-45; Gen. Sec. Ministry of Nat. Economy 1946: Counsellor to Greek Perm. Del. to OEEC (now OECD) 1948-50, Gen. Counsellor 1950-53, Deputy Head of Delegation 1953-55, Head 1956-71; concurrently Amb. to European Econ. Community, Brussels 1959-62; decorations include: Officier Légion d'honneur, Grand Officer Order of Phoenix (Greece), Grand Officer Order of King George (Greece), Grand Officer Order of Merit of Italian Republic, Grand Cross of Fed. Repub. of Germany. *Publications:* many economic essays and articles. *Address:* 3 Xenias Street, Athens, Greece.

CHRISTIE, John Traill; British educationist; b. 19 Oct. 1899; ed. Winchester and Trinity Coll., Oxford; Sixth Form Master Rugby 1922-28; Fellow and Tutor of Magdalen Coll., Oxford 1928-32; Head Master of Repton 1932-37, of Westminster School 1937-49; Principal of Jesus Coll., Oxford 1950-67: Hon. Fellow, Jesus Coll., Oxford 1967; Asst. Master, Westminster School 1967-69. *Address:* Great Henny, Sudbury, Suffolk, England.

CHRISTIE, Julie Frances; British actress; b. 14 April 1940, Assam, India; ed. Brighton Technical Coll., and Central School of Speech and Drama. *Films:* Crooks Anonymous, The Fast Lady, Billy Liar, Young Cassidy, Darling, (Acad. Award 1966), Doctor Zhivago, Fahrenheit 451, Petulia, Far From the Madding Crowd, In Search of Gregory, The Go-Between, McCabe & Mrs. Miller, Don't Look Now, Shampoo, Demon Seed, Heaven Can Wait. *Address:* c/o International Creative Management, 22 Grafton St., London, W.1, England. *Telephone:* 01-629 8080.

CHRISTIE, Ronald Victor, M.D., D.S.C., F.R.C.P., F.A.C.P.; British physician; b. 1902, Edinburgh; s. of Dr. Dugald Christie, C.M.G.; m. Joyce M. Ervine 1933; one s. one d.; ed. George Watson's Coll., Edinburgh and Edinburgh Univ.; Asst. Rockefeller Inst. for Medical Research, New York 1926-28; Asst. Dept. of Pathology, Freiburg Univ. 1929-30; Assoc. McGill Univ. Clinic, Royal Victoria Hospital, Montreal 1930-35, Asst. Dir. and Asst. Physician Medical Unit, London Hospital 1935-38: Dir. Medical Professorial Unit and Physician St. Bartholomew's Hospital 1938-55; Prof. of Medicine, London Univ. 1938-55, McGill Univ. 1955-68, Emer. (McGill Univ.); Physician-in-Chief, Royal Victoria Hospital, Montreal 1955-64; Dean, Faculty of Medicine, McGill Univ. 1964-67; Hon. Sc.D. (Dublin), Hon. D.Sc. (Edinburgh) 1970, Hon. LL.D. (Dunedin) 1975, Hon. D.Sc. (McGill) 1978. *Leisure interests:* travel, fishing. *Address:* Box 11147, 1055 W. Georgia, Vancouver, B.C. V6E 3P3, Canada.

CHRISTO (Christo Javacheff); American (naturalized) artist; b. 13 June 1935, Gabrovo, Bulgaria; m. Jeanne-Claude de Guillebon; one s.; ed. Fine Arts Acad., Sofia; work involves wrapping up and packaging objects, buildings and landscape; went to Paris, first wrapped objects 1958; first project for packaging of public building 1961; "Iron Curtain" wall of oil drums blocking rue Visconti, Paris, "Wrapping ■ Girl", London 1962; first Showcases 1963; first Store Front 1964; first Air Package and Wrapped Tree, Eindhoven, Netherlands 1966; 42,390 cu. ft. Package, Walker Art Center, Minneapolis School of Art 1966; first packaging of public building, Kunsthalle Bern 1968; 5,600 cu. m. Package for Kassel Documenta 4 1968; Packed Museum of Contemporary Art, Chicago 1969; Wrapped Coast, Little Bay, Sydney, Australia, 1 ■ sq. ft. of erosion control fabric, 36 miles of rope 1969; Valley Curtain, Grand Hogback, Rifle, Colorado, suspended fabric curtain 1970-72; Running Fence, Calif. 1972-76; Wrapped Roman Wall 1974; Ocean Front, Newport 1974; Wrapped Walk-Ways, Kansas City 1977-78. *Address:* 48 Howard Street, New York, N.Y. 10013, U.S.A. *Telephone:* (212) 966-4437.

CHRISTOFAS, Kenneth Cavendish, C.M.G., M.B.E.; British diplomatist; b. 1917; m. Jessica Laura Sparshott 1948; two d.; ed. Univ. Coll., London; served war 1939-45; rose to rank of Lieut.-Col.; Foreign Service 1948-; Deputy Head of U.K. Del. to EEC 1959-61; Counsellor British High Comm., Lagos 1961-64; Head of Econs. Dept., Colonial Office 1964-66; Counsellor, Foreign and Commonwealth Office 1966-69; Minister and Deputy Head, U.K. del. to EEC 1969-72; Dir.-Gen. for Econ., Financial, Parl. and Institutional Affairs, Council of Ministers of European Communities 1973-. *Address:* Directorate General F, General Secretariat of the Council of Ministers of European Communities, 170 rue de la Loi, Brussels, Belgium. *Telephone:* 736-79-00.

CHRISTOFF, Boris, D.JUR.; Bulgarian singer; b. 18 May 1919, Plovdiv, Bulgaria; ed. Sofia Univ. and Italy; began career as ■ lawyer; studied singing in Rome; interned in Austria in World War II; professional debut in Italy 1945; has appeared at principal European opera houses, including La Scala, Milan, Rome, Naples, Venice, Palermo, Paris, London and Vienna and in America; major roles include Boris Godunov, King Philip, Don Quixote, Ivan the Terrible, Mephistopheles, Pizarro, and others; Dir. (h.c.) Paris Opera. *Complete recordings* of Boris Godunov, Gounod's Faust, Don Carlos and Mussorgsky's Songs. *Address:* Via Bertolini 1, Rome, Italy.

CHRISTOPHERSEN, Henning, M.ECON.; Danish politician; b. 8 Nov. 1939, Copenhagen; s. of Richard and Gretha Christophersen; m. Jytte Risbjerg Nielsen 1961; one s. two d.; ed. Univ. of Copenhagen. Head of the Economic Section of the Handicrafts Council 1965-70; mem. Folketing 1971-, mem. of Parl. Finance Cttee. 1972-76, Vice-Chair. 1976-78, Minister of Foreign Affairs 1978-; Deputy Leader, Danish Liberal Party 1972, Acting Party Leader 1977-78, Party Leader 1978-; Nat. Order of Merit. *Publications:* En udfordring for de Liberale, and numerous articles on economics. *Address:* Ministry of Foreign Affairs, Christiansborg Castle, 1218 Copenhagen K, Denmark. *Telephone:* 01-15.08.25.

CHRISTOPHERSON, Sir Derman Guy, Kt., O.B.E., S.M., D.PHIL., F.R.S.; British university vice-chancellor; b. 6 Sept. 1915, Plumstead, Kent; s. of Derman and Edith F. Christopherson; m. Frances Edith Tearle 1940; three s. one d.; ed. Sherborne School, Univ. Coll., Oxford and Harvard Univ. Scientific Officer, Research and Experiments Dept., Ministry of Home Security 1941-45; Lecturer in Eng., Cambridge Univ. ■d Fellow and Bursar of Magdalene Coll., Cambridge 1945-49; Prof. of Mechanical Eng., Univ. of Leeds 1949-55; Prof. of Applied Science, Imperial Coll. of Science and Technology, London 1955-60; Vice-Chancellor and Warden, Univ. of Durham 1960-; mem. Royal Fine Art Comm. 1978-; Fellow, Imperial Coll. of Science and Technology 1966-; Hon. Fellow, Magdalene Coll., Cambridge 1969-, Master 1979-; Hon. Fellow, University Coll., Oxford 1977-; several hon. degrees; Clayton Prize, Inst. of Mechanical Engineers 1963. *Publications:* The Engineer in the University 1967, The University at Work 1973, and various articles in learned journals. *Address:* Magdalene College, Cambridge, CB3 0AG, England. *Telephone:* Cambridge 61543.

CHRISTOPHIDES, Ioannis; Cypriot barrister and politician; b. 21 Jan. 1924, Nicosia; s. of Cleanthis and Maris (née Ypsilantis) Christophides; m. Marvel Georgiadis 1953; two d.; ed. Pancyprian Gymnasium; called to the Bar, Gray's Inn, London 1947; joined Comptoir d'Escompte de Nicosie (family banking firm) and Cleanthis Christophides Ltd. (family insurance firm) 1948, Chief Exec. 1954-57; founder mem. and Chair. (until 1972), Merchant Credit Ltd., Universal Life Insurance Co. Ltd.; Minister of Foreign Affairs 1972-74, 1975-78; mem. Bd., Cyprus Telecommunications Authority, Chair. 1966-72: Vice-Chair. Commonwealth Telecommunications Council 1970-72; Chair. Commercial Union Assurance (Cyprus) Ltd., Universal Life Insurance Co. Ltd.; Pres. Cyprus Red Cross 1964-. *Leisure interest:* reading. *Address:* 25 El. Venizelou Street, Nicosia T.T. 109, Cyprus (Home). *Telephone:* 64653 (Home).

CHRISTY, Robert Frederick, B.A., M.A., PH.D.; American physicist; b. 14 May 1916, Vancouver; m. 1st Dagmar Elizabeth Lieven 1941 (divorced 1971); two s.; m. 2nd I. Juliana Sackmann 1973; two d.; ed. Univs. of British Columbia, and California (Berkeley); on U.S. Atomic Energy Project, Chicago and Los Alamos (Calif.) 1942-46; Prof. of Physics, Calif. Inst. of Technology, Pasadena 1946-, Exec. Officer for Physics, Chair. of Faculty 1969-, Vice-Pres. and Provost 1970-, Acting Pres. 1977; mem. American Astronomical Soc., Int. Astronomical Union, U.S. Nat. Acad. of Sciences 1965; Fellow, American Physical Soc., American Acad. of Arts and Sciences; Eddington Medal, Royal Astronomical Soc. (U.K.) 1967. *Publications:* Cosmic Ray Bursts 1941, The μ Meson Spin 1941, Determination of the Fine Structure Constant 1942, Angular Distribution of γ Rays 1949, The Coupling of Angular Momenta in Nuclear Reactions 1953, Low Excited States of F^{19} 1954, Analysis of Nuclear Scattering Data 1956, Corrections to Nuclear Q Values 1961, Direct Capture Nuclear γ Rays 1961, The Calculation of Stellar Pulsation 1964, A Study of Pulsation in RR Lyrae Models 1966, Review of Pulsation Theory 1966. *Address:* California Institute of Technology, Pasadena, Calif. 91109; 1230 Arden Road, Pasadena, Calif. 91106, U.S.A. (Home).

CHRYSLER, Walter P., Jr.; American art collector; m. 1st Marguerite Sykes 1938 (divorced), 2nd Jean Esther 1945; ed. Dartmouth Coll. Organizer, York Publishing House 1926; Pres. and Chair. Cheshire House, Inc., Publications, New York 1930; Pres.

Chrysler Building, New York 1935-53, Dir. 1932-53; Pres. Chrysler Art Museum, Provincetown, Mass. 1958; Pres., Trustee, Dir. Chrysler Art Museum, Norfolk, Va.; collection of paintings and sculpture. *Address:* c/o Chrysler Art Museum at Norfolk, Norfolk, Va. 23510, U.S.A.

CHU HUY MAN, Lieut.-Gen.; Vietnamese soldier and politician; b. 1920. mem. Cen. Cttee., Lao Dong Party; Maj.-Gen. in Viet-Nam People's Army; fmr. Political Commdr. in Western Highlands; mem. Politbureau of C. P. of Viet-Nam Dec. 1976-; represents the ethnic minorities in Govt. *Address:* Central Committee of the Communist Party of Viet-Nam, No. 1-c, rue Hoang Van Thu, Hanoi, Viet-Nam.

CHU MU-CHIH; Chinese journalist; Deputy Dir. New China News Agency 1954-72, Dir. 1972-77; Vice-Chair. Nat. Journalists Assn. 1960; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; Deputy Dir. CCP Cen. Cttee. Propaganda Dept. 1977-; mem. 5th Nat. Cttee. 1978. *Address:* People's Republic of China.

CHU, Peter, D. ÈS LETTRES; Chinese professor and businessman: b. 1902: ed. Univ. of Paris. Man. Dir. The Agricultural & Industrial Bank of China 1941-49: Publisher of Life Today; Prof. of Kwang Hsia Univ.; Dean of the Great China Univ.; Dir. South-Eastern Asia Development Corpn. Ltd. *Publications:* L'émigration japonaise depuis 1918, A Study of Scientific Management 1945.

CHU YAO-HUA; Chinese army officer; Maj.-Gen. PLA, Fukien Front 1964; Vice-Chair. Fukien Revolutionary Cttee. 1968; Commdr. Fukien Mil. District, PLA 1968: Deputy Commdr. Foochow Mil. Region, PLA 1973. *Address:* People's Republic of China.

CHUDAKOV, Aleksandr Yevgeniyevich: Soviet physicist; b. 16 June 1921, Moscow; ed. Moscow Univ. Research Assoc. Lebedev Inst. of Physics, U.S.S.R. Acad. of Sciences 1946-71, Inst. of Atomic Research 1971-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-, Lenin Prize 1960. *Publications:* works on nuclear physics. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

CHUDÍK, Michal; Czechoslovak politician and diplomatist; b. 29 Sept. 1914, Polomka. Commr. for Nutrition, Slovak Nat. Council 1948-49; Chair. Regional Nat. Cttee., Košice 1948-55; First Deputy Chair. Bd. of Commrs. and Comm. for Agriculture, Slovak Nat. Council 1955; Chair. Slovak Nat. Council 1965-68; Deputy Chair. Nat. Assembly 1965-68; mem. Central Cttee. of CP of Czechoslovakia 1950-68; mem. Agricultural Comm. of Central Cttee. of CP of Slovakia 1963-66; mem. Presidium of Central Cttee. 1964-68; Deputy to Nat. Assembly 1964-69; Deputy to House of the People, Fed. Assembly 1969-71; Amb. to Bulgaria 1971-76, to Cuba 1976- (also accred. to Guyana 1978-); Order of 25th Feb. 1948, 1949; Order of the Repub. 1964. *Address:* Embassy of Czechoslovakia, Avenida Kohly 259, Nuevo Vedado, Havana, Cuba.

CHUKHRAI, Grigoriy Naumovich; Soviet film director; b. 23 May 1921, Melitopol, Zaporozhye Region; ed. All-Union State Inst. of Cinematography; Soviet Army 1939-45; mem. CPSU 1944-; Dir. Mosfilm 1955-64; Dir. Experimental Film Studio 1965-; Honoured Art Worker of R.S.F.S.R., Lenin Prize 1961, Order of Red Star, Order of Patriotic War, Order of Red Banner of Labour (three times), Labour Order of Hungary, Partisan Star of Czechoslovakia. *Films:* The 41st 1956, Ballad of a Soldier 1959, The Clear Sky 1961, There Lived an Old Man and Old Woman 1964, Memory 1967. *Address:* Mosfilm Studio, 1 Mosfilmovskaya ulitsa, Moscow, U.S.S.R.

CHULASAPYA, Air Chief Marshal Dawee; Thai air force officer and politician; b. 8 Aug 1914, Thonburi; ed. Mil. Acad. (now Chulachomklao), Flying Training School and Command and Gen. Staff Coll., Fort Leavenworth, U.S.A.; fighter pilot, Royal Thai Air Force 1936, intelligence work and studies abroad during World War II; Dir. of Intelligence 1948-55; Acting Dir. Civil Aviation 1948-55; Air Marshal 1955; Chief of Air Staff 1955-61; Air Chief Marshal 1957; Chief of Staff, Supreme Command 1961-63; SEATO Mil. Adviser 1961-63; rank of Gen. and Admiral 1963; Special Officer, First Royal Guard Infantry 1963; Deputy Minister of Defence 1963-69; Minister of Communications 1969-71; Chair. Thai Maritime Navigation Co. 1969-74; Dir. of Nat. Devt. Agriculture and Communications in Nat. Exec. Council 1971; Minister of Agriculture and Co-operatives 1972-73, of Defence 1973-74; fmr. Chair. Joint Chiefs of Staff of Nat. Security Command; fmr. Deputy Dir. Communist Suppression Operations Command; concurrently Deputy C.-in-C. Armed Forces and Acting Supreme Commdr. 1973; retd. 1974; mem. House of Reps. for Mae Hong Son April-Oct. 1976; leader Social Justice Party 1976; Deputy Prime Minister, Minister of Public Health April-Oct. 1976; Medal of Courage 1972, and numerous other awards. *Address:* Thailand.

CHUMAKOV, Mikhail Petrovich; Soviet virologist; b. 14 Nov. 1909, Ivanovka, Tula; ed. First Moscow Medical Inst.; Physician, Postgraduate, Senior Research Associate, Institute of Microbiology, U.S.S.R. Acad. of Sciences 1931-38; Sr. Research Assoc., Head of Lab., U.S.S.R. Inst. of Experimental Medicine 1938-44; Head of Dept. Inst. of Neurology, U.S.S.R. Acad. of Medical Sciences 1944-50, Corresp. mem. 1948, mem. 1960; Dir., Head of Lab. Inst. of Virology 1950-55; Organizer, Dir. Inst. of Poliomyelitis and Virus Encephalitis 1955-72, Scientific Head 1972-76; mem. CPSU 1940; mem. Purkyně Medical Soc., Czechoslovakia; Order Badge of Honour, Red Banner of Labour, State Prize 1941, Ivanovsky Prize, Lenin Prize 1963. *Publications:* Over 170 works on epidemiology of virus infections (tick encephalitis, trachoma, poliomyelitis, tick fever); monographs Poliomyelitis—Epidemic Infantile Paralysis, Antibioticotherapy of Trachoma. *Address:* c/o Academy of Medical Sciences, ul. Solyanka 14, Moscow 109801, U.S.S.R.

CHUNDER, Pratap Chander, LL.B., PH.D.; Indian lawyer and politician; b. 1 Sept. 1919, Calcutta; ed. Univ. of Calcutta; law practice in Calcutta 1957; mem. Senate and Law Faculty of Calcutta Univ. 1961-68; mem. Exec. Council of Rabindra Bharati Soc. 1962-68; mem. West Bengal Legislative Assembly 1962-68; Pres. West Bengal Provincial Congress Cttee. 1967; Minister of Finance and Judiciary in State Govt. 1968-69; mem. Working Cttee. and Cen. Parl. Bd. of Org. Congress 1969; mem. Janata Party 1977-; mem. Lok Sabha from Calcutta North East March 1977-; Minister of Educational Affairs, Social Welfare and Culture March 1977-; mem. Inc. Law Soc. and Calcutta Bar Assn.; Vice-Pres. West Bengal Coll. and Univ. Teachers' Assn.; fmr. editor several Bengali literary magazines; Fellow, Asiatic Soc. of Calcutta 1975; Best Playwright award, Calcutta Univ. 1965. *Publication:* Kautilya on Love and Morals. *Address:* Ministry of Educational Affairs, Social Welfare and Culture, New Delhi, India.

CHUNG FU-HSIANG; Chinese government official; b. Kwangsi; Vice-Minister of Posts and Telecommunications 1953-57, of Second Ministry of Machine Building 1957-58, of First Ministry of Machine Building 1958-61, of Posts and Telecommunications 1962-67; criticized and removed from office during Cultural Revolution 1967; Minister of Posts and Telecommunications 1975-. *Address:* People's Republic of China.

CHUNG, (Raymond) Arthur; Guyanese judge; b. 10 Jan. 1918, Windsor Forest, West Coast, Demerara; s. of Joseph and Lucy Chung; m. Doreen Pamela Ng-See-Quan 1954; one s. one d.; ed. Modern High School, Georgetown and Middle Temple, London; land surveyor 1940; lived in England 1946-48; Asst. Legal Examiner, U.K. Inland Revenue Dept. 1947; returned to Guyana 1948; Magistrate 1954, Sr. Magistrate 1960; Registrar of Deeds of the Supreme Court 1961; Judge of the Supreme Court 1962-70; First Pres. of the Repub. of Guyana March 1970-. *Address:* Office of the President, Georgetown, Guyana.

CHUNG II KWON, Gen.; Korean army officer (retd.), diplomatist and politician; b. 21 Nov. 1917; m. 1st Kye Won Yoon 1946, three d.; m. 2nd Hae Soo Park 1977; ed. Military Acad. of Japan, U.S.A. Command and General Staff Coll., Harvard and Oxford Univs.; fmr. Army Chief of Staff, Chair. Joint Chiefs of Staff; Amb. to Turkey, France, U.S.A., concurrently to Brazil, Chile, Colombia, Argentina, Paraguay and Ecuador; Minister of Foreign Affairs 1963; Prime Minister 1964-70, concurrently Minister of Foreign Affairs 1966-67; Chair. Korean-Japan Co-operation Council 1971-; Chair. Democratic Republican Party 1972-73; mem. Nat. Assembly 1971–, Speaker 1973-. *Leisure interest:* horse-riding. *Address:* 1-1 Youido-dong, Yongdungpo-ku, Seoul, Republic of Korea.

CHUNG, Kyung-Wha; Korean violinist; b. 26 March 1948, Seoul; ed. Juilliard School of Music; studied under Ivan Galamian; started career in U.S.A.; winner of Leventritt Competition 1968; European debut 1970; has played under conductors such as Giulini, Haitink, Jochum, Maazel, Solti and Previn; has played with major orchestras including London Symphony Orchestra, New Philharmonia Orchestra, Pittsburgh Symphony Orchestra; has toured world; recordings for Decca; played at Salzburg Festival with London Symphony Orchestra 1973. *Leisure interests:* arts, antiques, French, farming. *Address:* c/o Harrison/Parrott Ltd., 22 Hillgate Street, London, W8 7SR, England.

CHUNG YUL KIM; Korean diplomatist and former air force officer; b. 1917; ed. Japanese Military Acad.; Commdt. Republic of Korea Air Acad. 1949, Chief of Staff, Korea Air Force 1949-52, 1954-56; Chief, Korean Liaison Group to United Nations Command, Tokyo 1952; Special Asst. to Minister of Nat. Defence 1954-57, Minister of Nat. Defence 1957-60; Amb. to U.S.A. 1963-68; mem.

Nat. Assembly 1967-71; Chief Commdr. Legion of Merit, Order of Mil. Merit Taeguk. *Address:* c/o Ministry of Foreign Affairs, Seoul, Republic of Korea.

CHURCH, Alonzo, A.B., PH.D.; American professor of mathematics and philosophy; b. 14 June 1903, Washington D.C.; s. of Samuel Robbins Church and Mildred H. L. Parker; m. Mary Julia Kuczinski 1925 (died 1976); one s. two d.; ed. Ridgefield School, Conn. and Princeton Univ.; Nat. Research Fellow in Mathematics, Harvard, Göttingen and Amsterdam Univs. 1927-29; Asst. Prof. of Maths., Princeton Univ. 1929-39, Assoc. Prof. 1939-47, Prof. 1947-61, Prof. of Maths. and Philosophy 1961-67; Editor The Journal of Symbolic Logic 1936-; Prof. of Philosophy and Maths., Univ. of Calif. at Los Angeles 1967-; mem. American Acad. of Arts and Sciences, Acad. Internationale de Philosophie des Sciences, Nat. Acad. of Sciences 1978-; Corresp. mem. British Acad. *Publications:* The Calculi of Lambda-Conversion 1941, Introduction to Mathematical Logic Vol. 1 1956. *Address:* c/o Department of Philosophy, University of California at Los Angeles, Los Angeles, Calif. 90024, U.S.A. *Telephone:* 213-825-4641.

CHURCH, Frank, A.B., LL.B.; American politician; b. 25 July 1924, Boise, Idaho; m. Bethine Clark 1947; two s.; ed. Stanford and Harvard Univs.; commissioned Infantry Officer 1944; Mil. Intelligence in China, India and Burma; law practice in Boise, Idaho 1950-56; Senator from Idaho 1957; del. O.A.S. Economic Conf., Buenos Aires 1957; del. to Interparl. Union Conf., Warsaw 1959; del. to Canadian-American Parl. Conferences, Ottawa, Montreal and Washington 1959-60; Keynoter, Democratic Nat. Convention 1960; Senatorial mem. U.S. Mission to the UN 1966; Chair., Senate Foreign Relations Sub-cttee. on Foreign Econ. Policy, Chair. Interior Sub-cttee. on Public Lands, Sub-cttee. on Consumer Interests of the Elderly, Chair. Special Cttee. on Ageing; Chair. U.S. Del. U.S.-Canada Interparl. Conf. 1969-, Steering Cttee. of Finance Cttee. 1973-; Select Cttee. on American Intelligence Activities 1975-; Democrat. *Address:* 245 Russell Senate Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* 224-6142.

CHURCHILL, Odette Maria Céline (*see* Hallowes).

CHYNOWETH, Alan Gerald, B.SC., PH.D.; British physicist; b. 18 Nov. 1927, Harrow, Middx.; s. of James Charles Chynoweth and Marjorie Fairhurst; m. Betty Freda Edith Boyce 1950; two s.; ed. King's College, Univ. of London; Postdoctoral Fellow of Nat. Research Council of Canada, Chemistry Div., Ottawa 1950-52; mem. Tech. Staff, Bell Telephone Labs. 1953-60, Head, Crystal Electronics Dept. 1960-65, Asst. Dir. Metallurgical Research Lab. 1965-73, Dir. Materials Research Lab. 1973-76, Exec. Dir. Electronic Device, Process and Materials Div. 1976-; Survey Dir. of Nat. Acad. of Sciences Cttee. on Survey of Materials Science and Eng. 1971-75, Comm. on Mineral Resources and the Environment 1973-75; mem. of Nat. Materials Advisory Bd., Wash., Metallurgical Soc., NATO Special Programme Panel on Materials 1977-; Sr. mem. Inst. of Electrical and Electronic Engineers; Fellow, American Physical Soc., Inst. of Physics, London; W. R. G. Baker Prize Award 1967. *Publications:* over 60 papers in professional journals on solid state physics, 12 patents on solid state devices, Nat. Acad. of Sciences reports: Materials and Man's Needs, Materials Conservation Through Technology, Resource Recovery from Municipal Solid Wastes. *Leisure interests:* travel, boating. *Address:* Bell Telephone Laboratories, Murray Hill, New Jersey 07974 (Office); 6 Londonderry Way Summit, New Jersey 07901, U.S.A. (Home). *Telephone:* 201-582-6810 (Office); 201-273-3956 (Home).

CHYORNY, Aleksey Klementyevich; Soviet politician; b. 1921; ed. Moscow Inst. of Chemical Engineering; Shop Supt., then Deputy Dir. of plant in Komsomolsk-on-Amur 1942-49; Chief of Section, later Second Sec., Komsomolsk-on-Amur City Cttee. of CP, then First Sec., District Cttee. of CP 1949-56; Sec., later Second Sec., Regional Cttee. of CP, Jewish Autonomous Region 1956-62; Chair. Exec. Cttee., Khabarovsk Territorial Soviet of Working People's Deputies 1962-70; First Sec., Khabarovsk Territorial Cttee. of CPSU 1970-; mem. CPSU 1946-; Deputy to U.S.S.R. Supreme Soviet 1962-; mem. Comm. on Trade, Municipal Catering and Economy, Soviet of Nationalities; mem. Cttee. U.S.S.R. Parl. Group 1970-; mem. CPSU Central Cttee. 1971-. *Address:* Khabarovsk Territorial Committee of the Communist Party of the Soviet Union, Khabarovsk, U.S.S.R.

CHYORNY, Vasiliy Ilyich; Soviet politician; b. 1913; ed. Belgorod Agricultural School and Higher Party School; Agronomist, Crimea 1932-35, 1939-41; in Soviet Army 1935-37; Leader, Komsomol 1937-39; Sec., District Cttee. of CP 1939-41; Commissar, Bakhchisarai Partisan Regt. 1941-42; in machine and tractor station, Kirghiz S.S.R. 1942-43; Party and Soviet worker 1944-50; Official, Cen. Cttee., CPSU 1950-54, 1960-61; First Vice-Chair. Council of Ministers, North Ossetian A.S.S.R. 1954-55; Second Sec., North Ossetian Regional Cttee. of CP 1955-60; First Sec. of Tambov Regional Cttee. of CP 1966-; mem. Cen. Auditing Comm. of CPSU 1966-71; Cand. mem. CPSU Cen. Cttee. 1971-76; mem. CPSU 1939–; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. Comm. for Planning and Budget, Soviet of Union. *Address:* Tambov Regional Committee of Communist Party of U.S.S.R., Tambov, U.S.S.R.

CIEŚLEWICZ, Roman; Polish graphic artist; b. 13 Jan. 1930, Lwów; ed. Cracow Acad. of Fine Arts; mem. AGI 1956–, ICTA 1967–; work includes posters and book typography; worked for RSW Prasa, WAG, WAF and Czytelnik (publishers in Poland); Graphic Editor Ty i Ja (You and I) magazine 1959-63; with Elle 1963-65, Art. Dir. 1966-70; with Vogue 1966, Mafia 1971; own studio, Paris 1971-; with Centre Beaubourg, Paris 1976-; works with C. Tchou, Juilliard, J. J. Pauvert, Adam (publishers in Paris); Grand Prix, Int. Exhbn. of Film Posters, Karlovy Vary 1964; Bronze Medal, Toulouse-Lautrec Centenary Competition, Paris; Gold Medal, 1st Industricke Oblikowanie Biennale, Ljubljana; 1st Prize, All-Poland Biennale of Posters, Katowice 1967; Gold Medal, 4th Int. Biennale of Posters, Wilanów 1972. *Works includes panels in:* Polish Industry Pavilion at Leipzig Int. Fair 1957, Navigation Pavilion, Poznań, Int. Fair 1959, Piombino Steelworks, Italy 1963; illustrations for Sklepy Cynamonowe (novel by B. Schultz) 1957; graphic layout for Guide de la France mystérieuse 1964; one-man exhbns.: BWA, Cracow 1960; Moderna Galerija, Rijeka 1961; Mandragore Bookshop, Paris 1963; Synergie Club, Paris 1964; Biebergalerie, Vienna 1966; Kordegarda, Warsaw 1967; Aurora Gallery, Geneva 1968; Muzeum Sztuki, Lódź 1971; Musée des Arts Décoratifs, Paris 1972; Muzeum Plakatu, Wilanów 1974. *Collections:* Museum of Modern Art, N.Y.; Stedelijk Museum, Amsterdam; Musée d'Art Décoratif, Paris; Library of Congress, Washington, D.C.; Museum of Modern Art, São Paulo; Fagersta Stadsbibliotek, Sweden. *Address:* Paris, France.

CIKKER, Ján; Czechoslovak (Slovak) composer; b. 29 July 1911, Banská Bystrica; m. Kitty Fiedler 1950; ed. Banská Bystrica Conservatoire and Master School of Composition, Prague, and conducting under Felix Weingartner in Vienna; Prof. of Theory of Music Bratislava Conservatoire 1939-51; Dramaturge, Opera House 1945-48; Prof. of Composition, School of Musical Arts 1951-77; mem. Slovak Theatre Council 1970-75; Chair. Czechoslovak Music Council 1975-77; Corresp. mem. Academy of Art, German Dem. Repub.; Czechoslovak Peace Prize 1951, State Prize 1955, 1963, 1975, Nat. Artist 1966, Herder Prize of Vienna Univ. 1966, Madach Prize, Hungary 1966, Order of Labour 1971. *Works include:* Sonatina for Piano 1933, Symphonic Prologue 1934, Two string quartets 1935, 1937, Capriccio 1936, Cantus Filiorum (cantata) 1940, About Life (trilogy of symphonic poems) 1941, 1943, 1946, Concertino for Piano and Orchestra 1942, Bucolic Poem (ballet music) 1944, scenic music for Hamlet 1947, and The Taming of the Shrew 1950, The Tatra Streams (three studies for piano) 1954, What the Children Told Me 1957, Meditation on the H. Schütz theme Glorified are the Dead 1964, orchestral studies 1965, Hommage à Beethoven 1970, Over the Old Trench (symphony) 1974, Symphonia 1945 1975; and operas: Juro Jánošík 1954, Beg Bajazid 1957, Resurrection (after Tolstoy) 1962, Mr. Scrooge (after Dickens) 1963, A play about Love and Death (after Romain Rolland) 1967, Coriolanus (after Shakespeare) 1974, Aquarelles 1977, Verdikt (after Kleist) 1978. *Address:* Fialkové údolie č. 2, Bratislava, Czechoslovakia. *Telephone:* 3359-34.

CILENTO, Sir Raphael West, Kt., M.D., B.S., D.T.M. & H.ENG.; Australian barrister; b. 2 Dec. 1893, Jamestown, S. Africa; ed. Prince Alfred Coll., Adelaide Univ. and School of Tropical Medicine, London; Dir. Australian Inst. of Tropical Medicine; Dir. Public Health and Quarantine, Mandated Territory of New Guinea for four years; Dir. Div. Tropical Hygiene and Chief Quarantine Officer N.E. Div. of Commonwealth 1928-33; Sr. Admin. Health Officer Commonwealth Dept. of Health 1934; Dir.-Gen. Health and Medical Services, Queensland 1934-45; Hon. Prof. Social and Tropical Medicine, Queensland Univ. 1937-46; Pres. Medical Bd. Queensland 1939-45; Barrister, Supreme Court, Queensland 1939-; Assessor, Medical Assessment Tribunal, Queensland 1939-45; apptd. head of UNRRA work in British zone of occupation in Germany 1945-46; Dir. Div. of Refugees and Displaced Persons UN 1946, Div. of Social Activities, Economic and Social Council UN 1946-50; Pres. Royal Hist. Soc. of Queensland 1934-35, 1943-44, 1953-68, Nat. Trust of Queensland 1967-71. *Publications:* Malaria 1923, Filariasis 1923, Diagnosis of Bowel Diseases in North Australia 1924, White Man in the Tropics 1925, Health Conditions in the Pacific 1929, Tropical Diseases in Australasia 1940, Blue Print for the Health of a Nation 1944. *Address:* Supreme Court, Brisbane, Queensland; Altaville, 56 Glen Road, Toowong, Queensland 4066, Australia (Home).

CINTRA DO PRADO, Luíz; Brazilian professor and physicist; ed. Escola Politécnica, Univ. de São Paulo, Univ. de Paris à la Sorbonne and Collège de France; Lab. Asst. Polytechnic Univ. de São Paulo 1928-30, Asst. Lecturer Physics 1929-33, Prof. 1938-64, Prof. Emer. 1964-; Lecturer Physics, Faculty of Medicine and Faculty of Sciences, Univ. de São Paulo 1933-37, Dir. Escola Politécnica 1940-42, Vice-Rector 1953-54; Prof. Pontificia Univ. Catolica de São Paulo 1938-54; Chief, Nuclear Eng. Dept. Inst. of Atomic Energy 1960-63, Dir. 1961-63; Pres. Nat. Comm. for Nuclear Energy 1964-66; mem. Del. to Int. Atomic Energy Agency (IAEA) 1957-67; mem. Nat. Research Council 1951-64; Vice-Pres. Brazilian Acad. of Sciences 1959-64; mem. Scientific Advisory Cttee. of UN and of IAEA 1960-; mem. Int. Cttee. on weights and Measures 1967-; over 120 publs. *Address:* Escola Politécnica, Universidade de São Paulo; 840 rua Altino Arantes, Ribeirão Preto, Est São Paulo, SP, Brazil (Home).

CIOARĂ, Gheorghe; Romanian politician; b. 23 Feb. 1924, Bucharest; ed. Polytechnic Inst., Bucharest, and Leningrad, U.S.S.R.; Lecturer Polytechnic Inst., Bucharest 1950-56; Deputy Minister of Electric Power 1953-54, Minister 1954-57; Minister of Foreign Trade 1965-69; First Deputy Chair. State Planning Cttee. 1969-70; Vice-Prime Minister 1976-79; alt. mem. Cen. Cttee. Romanian CP 1960-65, mem. 1965-, mem. Exec. Political Cttee. 1972-; Vice-Chair. Supreme Council on Econ. and Social Devt. 1973-; Deputy Rep. for Romania in Council for Mutual Econ. Assistance 1957-65; Chair. Municipal Cttee. and Gen. Mayor, Bucharest Municipality 1972-76; Minister of Industrial Construction 1978-79, of Electrical Power 1979-. *Address:* Ministerul Construcţiilor Industriale, Splaiul Independenţei 202A, Bucharest, Romania. *Telephone:* 49 30 80.

CIPA, Walter Johannes, DR. RER. NAT.; German business executive; b. 29 Nov. 1928, Gleiwitz/Oberschl.; s. of Ernst and Marie (née Kus) Cipa; m. Eva Mayer 1958; no c.; ed. Technische Hochschule, Aachen and Universität Freiburg; Deutsche Erdöl AG, Hamburg 1955; Gelsenkirchener Bergwerks AG 1961- (name of firm changed to Gelsenberg AG 1969), mem. Man. Bd. 1965-75, Chair. of Man. Bd. 1969-75; Chair. Supervisory Bd. Aral AG until 1973, Deputy Chief Exec AEG-Telefunken 1975-76, Chair. Man. Bd. 1976-. *Address:* Theodor-Stern-Kai, D-6000 Frankfurt 70, Federal Republic of Germany. *Telephone:* (0611) 600-5401.

CIRNE LIMA, Luís Fernando; Brazilian army officer and politician; b. 1930, Rio Grande do Sul; s. of Rui Cirne Lima and Maria Velho Cirne Lima; m. Miriam Obino Cirne Lima; President Federação da Agricultura do Rio Grande do Sul; founder Correio do Povo Rural; Minister of Agriculture 1969-73. *Address:* c/o Ministério de Agricultura, Esplanada dos Ministérios, Bloco 8, Brasília, D.F., Brazil.

CIROMA, Adamu, B.A.; Nigerian businessman and central banker; b. 1934, Potiskum; s. of Muhammadu and Aishatu Ciroma; m. 1970; one d.; ed. Barewa Coll. and Univ. Coll. Ibadan; Admin. Officer, N. Nigeria Civil Service 1961-65; Sr. Asst. Sec., Fed. Civil Service 1965-66; Editor New Nigerian 1966-69, Man. Dir. New Nigerian Newspapers 1969-74; business activities 1974-75; Gov. Cen. Bank of Nigeria 1975-77; mem. Constituent Assembly 1977-78. *Leisure interest:* golf. *Address:* c/o Central Bank of Nigeria, Tinubu Square, P.M.B. 12194, Lagos, Nigeria. *Telephone:* 23306, 53700/100.

CIRY, Michel; French painter, etcher and graphic artist; b. 31 Aug. 1919; ed. Ecole des Arts Appliqués, Paris; religious and secular paintings and etchings; Prof. School of Fine Arts Fontainebleau 1957-58, Académie Julian 1960; fmr. mem. Conseil Supérieur de l'Enseignement des Beaux-Arts; Vice-Pres. Comité National de la Gravure; numerous exhbns. in Europe and America including Paris, London, New York, Boston, Amsterdam, Rome and Berlin; works in Museums of Europe and America; has illustrated numerous books including books by Montherlant, Green, Claudel and Mauriac; Prix National des Arts 1945, Grande médaille de vermeil de la Ville de Paris 1962, Prix de l'Ile de France 1964, Prix Eugène Carrière 1964, Lauréate Acad. des Beaux-Arts 1968; mem. Acad. des Beaux-Arts, Florence 1964-; Prix Wildenstein 1968; Chevalier, Legion d'honneur, Chevalier des Arts et des Lettres. *Major Works:* Chemin de croix 1960-64, Stabat Mater 1960, 1961, 1963, 1965, Fièvres 1965, Christ's Passion 1955, 1957, 1960, 1964, Marie-Madeleine 1961, 1963, 1965, Saint François 1950, 1954, 1959, 1960, 1964, 1965. *Address:* La Bergerie, 76 Varengeville-sur-Mer, Seine-Maritime, France.

CISLER, Walker Lee; American engineer; b. 8 Oct. 1897, Marietta, Ohio; s. of Louis H. and Sara S. (Walker) Cisler; m. Gertrude Demuth Rippe 1939 (died 1975); two adopted c.; ed. Cornell Univ.; joined Public Service Electric & Gas Co., Newark 1922, rose to Asst. Chief Engineer Electric Dept. by 1941; Chief, Equipment Production Branch, Office War Utilities, War Planning Board, Washington 1941-43; Chief, Public Utilities Section, SHAEF, later Chief, Public Utilities Section, Office Mil. Govt. for Germany 1943-45; Chief Engineer power plants, Detroit Edison Co. 1945-47, Exec. Vice-Pres. 1948-51, Pres. 1951-64, Chair. 1964-75; Chair. Compensation Cttee. Fruehauf Corpn.; Pres. Overseas Advisory Assocs. Inc.; Dir. numerous other companies; Chair. Thomas Alva Edison Foundation; Hon. Chair. Int. Exec. Council, World Energy Conf; Official Adviser U.S. Del. Int. Conf. on Peaceful Uses Atomic Energy 1955; Act. Chair. Fruehauf Corpn. Nov. 1978-; official of numerous other scientific and educational institutions. *Address:* 1300 Washington Boulevard Building, Detroit, Mich. 48226 (Office); 1071 Devonshire Road, Grosse Pointe Park, Mich. 48230, U.S.A. (Home). *Telephone:* 313-963-6903.

CISSÉ, Jeanne Martin; Guinean diplomatist; b. April 1926, Kankan; m.; six c.; teacher, Guinea 1945-54; Dir. of school 1954-58; mem. Teachers' Union 1958-64; Parti Démocratique de Guinée, Kindia Office of the Fed. Bureau 1959-68, Regional Women's Cttee. of Dalaba and Kindia and Nat. Women's Cttee.; Nat. Assembly, successively First Sec., Second Vice-Pres. and First Vice-Pres. until 1972; Sec.-Gen. Conf. of African Women 1962-72; Rep. UN Comm. on the Status of Women 1963-69; Perm. Rep. to UN 1972-76; attended sessions of Gen. Assembly 1961-63, 1966-68, OAU 1964, 1965, 1967-70, 1972 and Afro-Asian Conf. 1961; participated in UN Seminars on the Status of Women 1964 and 1971, and in world confs. of women, Moscow 1963 and Helsinki 1969; Minister of Social Affairs 1976-; Lenin Peace Prize 1975. *Address:* Ministry of Social Affairs, Conakry, Guinea.

CITRINE, 1st Baron, cr. 1946, of Wembley; **Walter McLennan Citrine,** P.C., G.B.E., COMP.I.E.E.; British trade unionist and administrator; b. 22 Aug. 1887, Liverpool; s. of Alfred Citrine and Isabella McLennan; m. Doris Helen Slade 1913; two s.; Mersey District Sec. Electrical Trades Union 1914-20; Pres. 1917-18 and Sec. 1918-20 Mersey Fed. of Eng. and Shipbuilding Trades; Asst. Gen. Sec. Electrical Trades Union 1920-23; Asst. Sec. TUC 1924-26 and Gen. Sec. 1926-46; mem. Nat. Coal Board 1946-47; Chair. Cen. Electricity Authority 1947-57; part-time mem. Electricity Council, Atomic Energy Authority 1958-62; Chair. Miners' Welfare Comm. 1946-47; Pres. Int. Fed. of Trade Unions 1928-45; Chair. World Fed. of Trades Unions 1945-46; mem. H.M. Economic Advisory Council 1930-33; Dir. Daily Herald Ltd. 1929-46; mem. Gen. Advisory Council BBC 1934; Gov. L.S.E. 1932-36; Trustee Imperial Relations Trust 1937-49; mem. Cinematograph Council 1938-48; mem. Royal Comm. on West Indies 1938; mem. Consultative Council to Treasury 1940-46; Chair. Production Cttee. on Regional Boards (Munitions) 1942; Pres. British Electrical Approvals Bd.; Hon. LL.D. (Manchester). *Publications:* The British Trade Union Movement 1926, Labour and the Community, I Search for Truth in Russia 1936, 1938, A B C of Chairmanship, My Finnish Diary 1940, My American Diary 1941, In Russia Now 1942, Men and Work (autobiography) 1964, Two Careers 1967. *Address:* 13 Lower Rea Road, Brixham, South Devon, England. *Telephone:* 08-045-55341.

CIULEI, Liviu; Romanian actor, director, scenographer and architect; b. 7 July 1923, Bucharest; ed. Bucharest Univ. and Bucharest Acad. of Dramatic Art; actor since 1945, stage dir. and scenographer since 1946; Dir. "Lucia Sturdza Bulandra" Theatre, Bucharest 1963-72, First Dir. 1972-; mem. Union of Plastic Artists, Assen. Artists of Theatrical and Musical Insts.; Pres. Romanian Centre of the O.I.S.T.T. (Int. Org. of Scenographers and Theatre Technicians); Artist Emer. 1957; acted at Bulandra, Odeon and C. Nottara theatres in Bucharest, as Puck in A Midsummer Night's Dream, Oliver in As You Like It, Krogstadt in Nora, Piotr in The Last Ones, Protasov in The Children Of The Sun, Treplev in The Seagull, Dunois in St. Joan, Danton in Danton's Death; directed Danton's Death, Bucharest 1966, and Schillertheater, West Berlin 1967, As You Like It, Bucharest 1961, Deutsches Theater Göttingen 1967, Macbeth, Bucharest 1968, The Seagull, Schillertheater 1968, Bucharest 1977, Richard II, Düsseldorfschauspielhaus 1969, Volpone, Freie Volksbühne, West Berlin 1970, Leonce and Lena, Bucharest 1970, Washington 1974, Vancouver 1976, Ionesco's Macbett, Munich 1973, The Threepenny Opera, Mannheim 1973, Paul Foster's Elizabeth the First, Bucharest 1974, Essen 1974, West German television 1975, Paris 1976, The Lower Depths, Bucharest 1975, Washington 1977, Sydney 1977, The Cherry Orchard, Essen 1975, Long Day's Journey into Night, Bucharest 1975, Spring Awakening, New York 1977, The Inspector General, New York 1978, Hamlet, Washington 1978, The Tempest, Bucharest 1978; numerous tours abroad with Romanian productions, including Budapest 1960, Leningrad and Moscow 1966, Florence 1969, 1970, Regensburg Frankfurt/Main, Essen 1970, Edinburgh Festival 1971, The Hague, Amsterdam 1972, etc.; State Prize 1962 for films; Grand

Prize at the Int. Festival of Karlovy Vary 1960, for the film Valurile Dunării (The Waves of the Danube) as dir. and interpreter; prize for the best direction at the Int. Festival at Cannes 1965, for the film Padurea Spinzuratilor (The Forest of the Hanged) as dir. and interpreter. *Address:* Teatrul "Lucia Sturdza Bulandra", Bd. Schitu Măgureanu Nr. 1, Bucharest, Romania. *Telephone:* 149696, 129582.

CIVIL, Alan; British horn player and composer; b. 13 June 1929; ed. studied under Aubrey Brain, London, and Willy von Stemm, Hamburg; Prin. Horn, Royal Philharmonic Orchestra 1952-55; Co-Prin. Horn with late Dennis Brain, Philharmonia Orchestra 1955-57, Prin. 1957-66; Prof. of the Horn Royal Coll. of Music; Prin. Horn BBC Symphony Orchestra 1966-; Guest Prin. Horn with Berlin Philharmonic Orchestra; mem. several Chamber Music Ensembles including London Wind Quintet, London Wind Soloists, Wigmore Ensemble, Prometheus Ensemble, Alan Civil Horn Trio, Music Group of London; has performed horn concertos as soloist in the U.S.A., South America, the Caribbean and Europe; records for Columbia. *Compositions:* Symphony (for Brass and Percussion) 1950, Wind Octet 1951, Wind Quintet 1951, Horn Trio in E Flat 1952, Divertimento for Trombone Quartet, Suite for Two Horns; Songs, Music for Brass Ensemble, Horn Studies. *Address:* Downe Hall, Downe, Kent, England.

CLAES, Willy; Belgian politician; b. 24 Nov. 1938, Hasselt; m. Suzanne Meynen 1965; one s. one d.; ed. Univ. Libre de Bruxelles; mem. Exec. Cttee., Belgian Socialist Party, Joint Pres. 1975-77; mem. Limbourg Council 1964; mem. Chamber of Deputies 1968-; Minister of Educ. (Flemish) 1972-73, of Econ. Affairs 1973-74, 1977–. *Address:* Berkenlaan 23, B3500 Hasselt, Belgium. *Telephone:* 011/22-01-08.

CLAIR, René; French film director and writer; b. 11 Nov. 1898. began life as journalist and writer, then actor; later became film director; worked in France, England and America; mem. Acad. Française 1960-; Dr. h.c. (Cambridge Univ., Royal Coll. of Art (U.K.); Légion d'honneur and other nat. and foreign decorations. *Films include:* The Italian Straw Hat, Sous les toits de Paris, Le million, A nous la liberté, 14 Juillet, The Ghost Goes West, I Married a Witch, It Happened Tomorrow, Le silence est d'or, La beauté du diable, Les belles-de-nuit, Les grandes manoeuvres, Porte des lilas, Tout l'or du monde, Les fêtes galantes. *Publications:* Reflections on the Cinema, Star Turn, La Princesse de Chine, Comédies et commentaires, La serrure (play) 1967, Cinéma d'hier et d'aujourd'hui 1970, L'étrange ouvrage des cieux 1971, Jeux du hasard (short stories) 1976. *Address:* 11 bis avenue de Madrid, 92200 Neuilly-sur-Seine, France.

CLAPHAM, Sir Michael John Sinclair, K.B.E., M.A.; British printer and business executive; b. 17 Jan. 1912, Cambridge; s. of Sir John Clapham, C.B.E., and Lady Mary Margaret Clapham (née Green); m. Hon. Elizabeth Russell Rea (d. of 1st Baron Rea) 1935; three s. one d.; ed. King's Coll. Choir School, Cambridge, Marlborough Coll. and King's Coll., Cambridge; trained as printer 1933-38; joined Imperial Chemical Industries Ltd. (ICI) Man. of Kynoch Press 1938; seconded to Tube Alloys Project (Atomic Energy) in Second World War; Dir. Metals Div., ICI (now Imperial Metals Industries Ltd.) 1946-60, Chair. 1960-61, 1974-; Dir. Main Bd. of ICI 1961-68, Deputy Chair. 1968-74; Dir. ICI of Australia and New Zealand Ltd. (renamed ICI Australia Ltd. 1971) 1961-74, Imperial Metal Industries Ltd. 1962-70, Chair. 1974-; mem. Industrial Reorganization Corpn. April 1969-71; Chair. Council for Nat. Academic Awards 1971-77; Deputy Pres. CBI 1971-72, Pres. 1972-74, Vice-Pres. 1974-78; Dir. and Deputy Chair. Lloyds Bank 1974-; Dir., Chair. BPM Holdings 1974-; Dir. Grindlay's Bank 1975-;Hon. D.Sc., LL.D. *Publications:* Printing in History of Technology, Vol. III 1957, Multinational Enterprises and Nation States 1975. *Leisure interests:* sailing, swimming, cooking. *Address:* Lloyds Bank Ltd., 71 Lombard Street, London, E.C.3 (Office); 26 Hill Street, London, W.1. England (Home). *Telephone:* 01-626 1500 (Office); 01-499 1240 (Home).

CLAPP, Norton, LL.D., J.D., D.C.L.; American businessman; b. 15 April 1906, Pasadena, Calif.; m. 3rd Jane Bumiller 1952; three s.; ed. Occidental Coll., and Univ. of Chicago; admitted to Calif. and Wash. Bars 1929, private practice 1929-42; U.S. Navy 1942-46; Chair. Metropolitan Building Corpn., Seattle 1954-; Pres. Pelican (Alaska) Cold Storage Co. 1947-60, Chair. 1960-; Pres. Boise (Ida.) Payette Lumber Co. 1949-55; Pres. Laird, Norton Co. 1950-60, Chair. 1960-; mem. Board of Dirs. 1946, Vice-Pres. Weyerhaeuser Timber Co. 1955-57, Chair. 1957-60, 1966-77, Pres. 1960-66; dir. of numerous other cos.; Hon. Vice-Pres. Nat. Council Boy Scots of America; Chair. Trustees Univ. of Puget Sound, Tacoma, The Menninger Foundation, Univ. of Chicago; Officer Order of Leopold II (Belgium). *Address:* Norton Building, Seattle, Wash. 98104, (Office); P.O. Box 99, Medina, Wash. 98039, U.S.A. (Home).

CLAPPIER, Bernard; French economist; b. 9 Nov. 1913; ed. Ecole Polytechnique, Ecole Libre des Sciences Politiques; Deputy Sec.-Gen. Office of Industrial Production 1943; Dir. of the Cabinet of R. Schuman (Minister of Finance) 1947, (Minister of Foreign Affairs) 1948-50; Dir. External Econ. Relations, Ministry of Econ. Affairs 1951-64; Chair. Conf. between Member States of the European Communities and other states which applied for membership of the Communities 1962; Deputy Gov. Banque de France 1964-73, mem. Gen. Council 1973-, Gov. 1974-; Insp.-Gen. of Finances 1964; Vice-Pres. of Monetary Cttee. EEC; Alt. Dir. Bank for Int. Settlements until 1973; Pres., Dir.-Gen. Crédit Nat. 1973-74. *Address:* Banque de France, B.P. 140-01, 75049 Paris; 9 rue de Valois, 75001 Paris, France.

CLARET, Lucien Armand Joseph; French industrialist; b. 8 Jan. 1903, Barentin, Seine-Maritime; s. of Jean-Baptiste Claret and Jeanne Greux; m. Lydie Pujol; one s.; ed. Ecole Spéciale des Travaux Publics, Paris; founded Etablissements A. L. Claret, Colombes 1926, Man. 1926-28, 1975-; Société Industrielle de Travaux Electro-Mécaniques, Asnières 1941, Société Industrielle de Découpage et d'Emboutissage, Paris 1944, Société d'Exploitation des Procédés Leland & Claret 1945, Pres./Dir.-Gen. 1955-68, Fonderies de Carrières 1947, Man. 1953-68, Société Immobilière Claret, Colombes 1948, Société Starlec, Paris 1949, L'Unité Hermétique S.A., Pres./Dir.-Gen. 1958-68, La Verpillière (Isère) 1954, Société S.E.I.R.A.R., Paris 1956, Claret-Normandie 1957, Man. 1957-68, St. Pierre-de-Varengeville (Seine-Maritime) 1957, Claret-Ouest 1959, Man. 1959-68, Barentin (Seine-Maritime) 1959, Unidad Hermetica (Spain) 1962, Vice-Pres. 1962-72, C.M.E.P., Paris 1962, Société Lectra Paris 1964, Pres. 1970-76, Motores Claret (Spain) 1966, Vice-Pres. 1966-72; Man. Société de Distribution de Matériel 1949-68; Pres./Dir.-Gen. Fabriques de Fraises Dentaires et Mécaniques 1969; Pres. Dir.-Gen. Société Nouvelle des Ateliers de Constructions Electriques de Lagny 1971-78; Vice-Pres., Dir.-Gen. Le Matériel Hydraulique S.A., Saint Denis 1971; Dir. and Vice-Pres. Etablissements Willème; Man. Société d'Exploitation F.F.D.M.-Pneumat 1972, Stedell 1972-75, Adviser, French Foreign Trade; officer of several other companies; Officier Légion d'honneur; Commdr. Mérite commercial et industriel. *Leisure interests:* philately, music, binding, riding, mem. Yacht Club of France. *Address:* 43 boulevard Malesherbes, 75008 Paris (Office); 20 boulevard du Château, 92200 Neuilly-sur-Seine, France (Home).

CLARK, Baron (Life Peer), cr. 1969, of Saltwood; **Kenneth Mackenzie Clark,** O.M., C.H., K.C.B.; British art historian; b. 13 July 1903, London; s. of Kenneth Mackenzie Clark and Margaret Alice McArthur; m. Elizabeth Martin 1927 (died 1976); two s. one d.; ed. Winchester and Trinity Coll., Oxford; worked with Bernard Berenson in Florence 1926-28; mem. Cttee. Exhbn. of Italian Art at Burlington House 1930; Keeper Dept. of Fine Art, Ashmolean Museum, Oxford 1931-33; Dir. Nat. Gallery, London 1934-45; Surveyor of the King's Pictures 1934-45; Ryerson Lecturer, Yale Univ. 1936; Dir. Film Dept., Ministry of Information 1939-41; Chair. War Artists Advisory Cttee. 1939-45; Slade Prof. of Fine Art, Oxford Univ. 1946-50 and 1961-62; Chair. Arts Council of Great Britain 1953-60; Chair. Independent Television Authority 1954-57; Trustee, British Museum; Conseil Artistique des Musées Nationaux; Chancellor, York Univ. 1970-79; Hon. mem. Royal Scottish Acad., Swedish Acad., Spanish Acad., American Acad. of Arts and Letters, French Acad.; Hon. D.Lit. (Columbia, New York), Hon LL.D. (Glasgow, Liverpool), Hon. D.Lit. (Oxford, Cambridge, York, Warwick, London and Sheffield Univs.); C.Lit. 1974; Commendatore della Corona d'Italia and Commendatore al Ordine di Merito; Commdr. Légion d'honneur, Knight of the Lion of Finland, Austrian Silver Medal of Honour; Fellow, British Acad. and Royal Coll. of Arts; U.S. Nat. Gallery of Art Award for distinguished services for Civilisation 1970. *Publications:* The Gothic Revival 1930, Catalogue of Drawings by Leonardo da Vinci at Windsor 1935, Leonardo da Vinci 1939, One Hundred Details from the National Gallery (two vols.), Hay Wain 1944, Landscape into Art 1949, Piero della Francesca 1951, Moments of Vision 1954, The Nude 1955, Looking at Pictures 1960, Ruskin Today 1964, Rembrandt and the Italian Renaissance 1966, A Failure of Nerve 1967, Civilisation (also TV series) 1969, The Romantic Rebellion—Romantic versus Classic Art 1973, The Drawings of Henry Moore 1974, Another Part of the Wood (autobiography) 1974, The Drawings by Sandro Botticelli for Dante's Divine Comedy 1976, Animals and Men 1977, The Other Half: A Self Portrait (autobiography) 1977, An Introduction to Rembrandt 1978-, The Best of Aubrey Beardsley 1978. *Address:* B.2 Albany, Piccadilly, London, W.1., England.

CLARK, Rt. Hon. Charles Joseph, P.C., M.A.; Canadian politician; b. 5 June 1939, High River, Alberta; s. of Charles A. Clark and Grace R. Welch; m. Maureen Anne (née McTeer) 1973; ed.

Univ. of Alberta, Dalhousie Univ.; began career as a journalist; Nat. Pres. Progressive Conservative Party of Canada (PCP) Student Fed. 1963-65; First Vice-Pres. PCP Assn. of Alberta 1966-67; Lecturer, Univ. of Alberta 1965-67; Special Asst. to Davie Fulton 1967; Exec. Asst. to PCP Leader Robert Stanfield (q.v.) 1967-70; mem. House of Commons 1972-; Leader of PCP Feb. 1976-; Prime Minister of Canada May 1979-; mem. Hillcrest Miners' Literary and Athletic Assn. *Address:* Prime Minister's Residence, 24 Sussex Drive, Ottawa, Canada.

CLARK, Col. Charles Willoughby, D.S.O., O.B.E., M.C.; British engineering executive; b. 6 April 1888; ed. Atherstone Grammar School; apprentice, Alfred Herbert Ltd., Coventry 1904, Dir. 1934, Chair. and Joint Man. Dir. 1958-66, Pres. 1966; Pres. of all subsidiaries; army service 1914-18; Pres. Coventry Chamber of Commerce 1951-53; Chair., Mfrs. Section, Cttee. of Machine Tool Trades Assn. 1946-55; mem. Bd. of Trade Machine Tool Advisory Council 1957-66; Deputy Lieut. of Warwickshire; Fellow, Royal Commonwealth Soc.; Freeman of City of London. *Address:* Flat 41, Regency House, Newbold Terrace, Warwicks., England.

CLARK, Colin Grant, M.A.; British economist; b. 2 Nov. 1905; ed. Dragon School, Oxford, Winchester Coll., and Brasenose Coll., Oxford; Asst. Social Surveys of London 1928-29, of Merseyside 1929-30; Econ. Advisory Council 1930-31; Lecturer, Cambridge Univ. 1931-37; Visiting Lecturer, Univs. of Sydney, Melbourne and Western Australia 1937-38; Under-Sec. of State for Labour and Industry, Dir. Bureau of Industry, Financial Adviser to Treasury, Queensland 1938-52; Dir. Inst. for Research in Agricultural Econs., Oxford 1953-69; now Research Fellow, Monash Univ., Australia. *Publications:* The National Income, The Conditions of Economic Progress, The Economics of 1960, Welfare and Taxation, British Trade in the Common Market, Economics of Irrigation, Population Growth and Land Use, Starvation or Plenty?, The Value of Agricultural Land, etc. *Address:* Mannix College, Monash University, Clayton, Victoria 3168, Australia.

CLARK, Dick Clarence, M.A.; American politician; b. 14 Sept. 1929, Paris, Ia.; s. of Clarence and Bernice Clark; m. Jean Gross 1954 (divorced 1976), one s. one d.; m. 2nd Julie Marshall 1977; ed. Univ. of Maryland, Wiesbaden, Germany, Univ. of Frankfurt, Upper Iowa Univ. and Univ. of Iowa; U.S. Army, Germany, Private 1950, Corporal 1952; Teaching Asst., State Univ. of Ia. 1956-59; Asst. Prof. of History and Political Science, Upper Ia. Univ. 1959-64; Chair. Office of Emergency Planning in Ia., and Ia. Civil Defense Admin. 1963-65; Admin. Asst. to Congressman John C. Culver 1965-72; Senator from Iowa 1972-79; mem. American Historical Assn., Conf. on European History, American Assn. of Univ. Profs. and Conf. on Slavic and East European History, Members of Congress for Peace Through Law, Senate Agriculture and Foreign Relations Cttees., Special Cttee. on Aging, Rules Cttee., Democratic Steering Cttee.; Nat. Oratorical and Debate Champion 1953. *Leisure interests:* reading, debating, walking. *Address:* 404 Russell Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* 202-224-3254.

CLARK, Sir Fife, Kt., C.B.E.; British public servant; b. 29 May 1907; ed. Middlesbrough High School; political and diplomatic corresp. Westminster Press provincial newspapers 1936-39; P.R.O. Ministry of Health 1939-49; Controller, Cen. Office of Information (C.O.I.) 1949-52; Adviser on Govt. Public Relations and to the Prime Minister 1952-55; Adviser to Earl Marshal, Coronation of H.M. the Queen 1953; Dir.-Gen. C.O.I. 1954-71; Consultant on External Relations, Crown Agents for Overseas Govts. and Admins., London 1971-75; First Pres. Int. Public Relations Assn. 1955-57, mem. Emer. 1978; Fellow and founder mem. of Council, British Inst. of Public Relations, Pres. 1958-59; mem. Management Council, Brighton Int. Arts Festival 1966-. *Publication:* The Central Office of Information 1971. *Address:* Wave Hill, Nevill Road, Rottingdean, Sussex, England. *Telephone:* Brighton 33020.

CLARK, Most Rev. Howard Hewlett, C.C., D.D., D.C.L.; Canadian ecclesiastic; b. 23 April 1903, Macleod, Alta.; s. of Douglass Clark and Florence L. Hewlett; m. Anna E. Wilson 1935; one s. three d.; ed. Thorold High School, St. Catharine's Collegiate, Trinity Coll., Toronto, and Univ. of Toronto. Asst. Curate St. John's Church, Norway, Toronto 1930; Curate Christ Church Cathedral, Ottawa 1932-39, Rector 1939-41, Canon 1941-45, Dean 1945-54; Bishop of Edmonton 1954-59; Archbishop of Edmonton and Primate of the Anglican Church of Canada 1959-61; Archbishop and Metropolitan of Rupert's Land and Primate of the Anglican Church of Canada 1961-70; Chancellor, Univ. of Trinity Coll. 1972-; *Publication:* The Christian Life, according to the Prayer Book 1957. *Address:* 252 Glenrose Avenue, Toronto, Ont. M4T 1K9, Canada. *Telephone:* 483-6497.

CLARK, Howard Longstreth; American business executive; b. 14 March 1916, South Pasadena, Calif.; s. of Warren and Florence Clark; m. Jean Beaven 1961; nine c.; ed. Stanford Univ., Harvard Law School and Columbia Univ. Graduate Business School. Price Waterhouse and Co. 1937-39; admitted to New York Bar 1942; War Service, Navy 1942-45; American Express Co. 1945-, Vice-Pres. 1948, Senior Vice-Pres. 1952-56, Exec. Vice-Pres. 1956-60, Pres. and Chief Exec. Officer 1960-68, Chair. and Chief Exec. Officer 1968-74, 1975-77, Pres. 1974-75, Chair. Exec. Cttee. 1977-; Dir. of numerous companies. *Address:* American Express Plaza, 125 Broad Street, New York, N.Y. 10004 (Office); Box 513, Riverview Road, Hobe Sound, Fla. 33455, U.S.A. (Home).

CLARK, Sir John A., Kt.; British business executive; b. 14 Feb. 1926; s. of Sir Allen and Lady Jocelyn Clark (née Culverhouse); brother of Michael William Clark (q.v.); m. 1st Deidre Waterhouse 1952 (dissolved 1962), one s. one d.; m. 2nd Olivia Pratt 1970, two s. one d.; ed. Harrow and Cambridge. Royal Naval Volunteer Reserve, Second World War; fmrly. with Metropolitan Vickers and Ford Motor Co.; studied American electronics industry in U.S.A.; Asst. to Gen. Man., Plessey Int. Ltd. 1949; Dir. and Gen. Man. Plessey (Ireland) Ltd. and Wireless Telephone Co. Ltd. 1950; mem. Board of Dirs. Plessey Co. Ltd. 1953, Gen. Man. Components Group 1957, Man. Dir. and Chief Exec. 1962-70, Deputy Chair. 1967-70, Chair. and Chief Exec. 1970-; Dir. ICL Ltd. 1968-, Banque Nationale de Paris 1976-; Pres. Telecommunication Engineering and Mfg. Assn. 1964-66, 1972-74; Vice-Pres. Inst. of Works Mans.; Vice-Pres. Engineering Employers' Fed.; mem. Review Body on Top Salaries, Council and Pres.'s Cttee. of CBI Nat. Defence Industries Council; Fellow Inst. of Man.; Companion I.E.E. *Leisure interests:* golf, shooting, swimming, flying helicopters. *Address:* The Plessey Co. Ltd., Millbank Tower, London, S.W.1, England. *Telephone:* 01-478 3040.

CLARK, J(ohn) Desmond; C.B.E., F.B.A., F.S.A., SC.D., PH.D.; British anthropologist; b. 10 April 1916, London; s. of Thomas J. C. Clark and Catherine Wynne; m. Betty Cable Baume 1938; one s. one d.; ed. Monkton Combe School and Christ's Coll., Cambridge. Dir. Rhodes-Livingstone Museum, Livingstone, N. Rhodesia 1938-61; Prof. of Anthropology, Univ. of Calif. (Berkeley) 1961-; Mil. Service in E. Africa, Abyssinia, the Somalilands and Madagascar 1941-46; Founder mem. and Sec. N. Rhodesia Nat. Monuments Comm. 1948; Fellow, American Acad. of Arts and Sciences 1965. *Publications:* The Stone Age Cultures of Northern Rhodesia 1950, The Prehistoric Cultures of the Horn of Africa 1954, The Prehistory of Southern Africa 1959, Prehistoric Cultures of Northeast Angola and their Significance in Tropical Africa 1963, Atlas of African Prehistory 1967, Kalambo Falls Prehistoric Site Vol. I 1969, Vol. II 1974, The Prehistory of Africa 1970. *Leisure interests:* walking, photography, wood-cutting. *Address:* Dept. of Anthropology, University of California, Berkeley, Calif. 94720; 1941 Yosemite Road, Berkeley, Calif. 94707, U.S.A. (Home). *Telephone:* (415) 642-2533 (Office).

CLARK, John Grahame Douglas, C.B.E., M.A., PH.D., SC.D., F.B.A.; British archaeologist; b. 28 July 1907, Shortlands, Kent; s. of Lt.-Col. Charles Douglas Clark and Maud Shaw; m. Gwladys Maud White 1936; two s. one d.; ed. Marlborough Coll., and Peterhouse, Cambridge; research student Peterhouse, Cambridge 1930-32, Bye-Fellow 1932-35; Faculty Asst. Lecturer in Archaeology, Cambridge 1935-46; Squadron Leader, R.A.F.V.R. 1941-45; Univ. Lecturer in Archaeology, Cambridge 1946-52, Disney Prof. 1952-74; Head Dept. of Archaeology and Anthropology 1956-61, 1968, Master of Peterhouse 1973-; Pres. Prehistoric Soc. 1959-62, also its Editor 1935-70; Vice-Pres. Soc. of Antiquaries of London 1960-62; mem. Royal Comm. on Ancient Monuments 1957-69; mem. Ancient Monuments Bd. 1954-77; Trustee, British Museum 1976-; Hon. mem. or Fellow of Danish, Dutch, Finnish, German, Italian, Swedish, Swiss and American Acads. and Socs.; Order of Dannebrog, Hodgkins Medal, Smithsonian Inst. 1967, Viking Medal, Wenner-Gren Foundation 1972, Drexel Medal, Pennsylvania 1974, Gold Medal Soc. Antiquaries, London 1978. *Publications:* The Mesolithic Settlement of Northern Europe 1936, Archaeology and Society 1939, 1958, Prehistoric England 1940, Prehistoric Europe: the Economic Basis 1952, Excavations at Star Carr 1954, World Prehistory—an Outline 1961, (with Stuart Piggott) Prehistoric Societies 1965, 1970, The Stone Age Hunters 1967, World Prehistory—a New Outline 1969, 1977, Aspects of Prehistory 1970, The Early Stone Age Settlement of Scandinavia 1975, World Prehistory in New Perspective 1977, Mortimer Wheeler Memorial Lectures 1978. *Leisure interests:* gardening, sailing, contemporary art, oriental ceramics. *Address:* The Master's Lodge, Peterhouse, Cambridge, England. *Telephone:* Cambridge 50256.

CLARK, Joseph (*see* Clark, Charles Joseph).

CLARK, Joseph Sill, LL.B.; American politician; b. 21 Oct. 1901; ed. Harvard Univ., and Univ. of Pennsylvania Law School; practised law in Philadelphia 1926-50; Col. U.S.A.F. in World War II; Mayor of Philadelphia 1952-56; U.S. Senator from Pennsylvania 1956-68; mem. Foreign Relations Cttee., Labor and Public Welfare Cttee.; Pres. World Federalists, U.S.A. 1969-71; Chair. Coalition on Nat. Priorities and Mil. Policy 1969-73; mem. American, Pa. and Philadelphia Bar Asscns.; numerous hon. degrees; Philadelphia (Bok) Award 1956, Drexel Inst.; Democrat. *Publications:* The Senate Establishment 1963, Congress, The Sapless Branch 1964, 1966, Readings in Congressional Reform 1966. *Address:* 440 Rex Avenue, Chestnut Hill, Philadelphia, Pa. 19118, U.S.A.

CLARK, Ligia; Brazilian sculptress; b. 23 Oct. 1920; ed. Sacré Coeur de Marie, Belo Horizonte, Minas Gerais, and in Paris under Fernand Léger, Dobrinsky and Arpad Szénes. Co-founder Brazilian Neo-concrete Group 1959; first exhbn. of transformable sculptures Bichos 1960; Exhibitions in Paris, Rio de Janeiro, New York, São Paulo, Stuttgart and London; group exhbns. in France, Argentina, Germany, U.S.A., Italy, U.K., Israel, Czechoslovakia; numerous prizes and special exhbn., São Paulo Biennal 1963. *Address:* Avenida Prado Junior 16, Apdo. 801, Copacabana, Rio de Janeiro, RJ, Brazil.

CLARK, Gen. Mark W., D.S.C.; American army officer, b. 1 May 1896, New York; s. of Charles and Rebecca Clark; m. 1st Maurine D. Clark 1924 (deceased), 2nd Mary M. Applegate 1966; one s.; ed. U.S. Military Acad.; served as an infantry officer in France in First World War; 2nd Lieut. 1917, promoted through grades to Brig.-Gen. 1941, Major-Gen. 1942, Lieut.-Gen. 1942, Gen. 1945; mem. Gen. Staff Corps 1935-36, 1937-40, March-June 1942; apptd. Chief of Staff for Ground Forces in Europe July 1942; led secret mission by submarine to obtain information in N. Africa preparatory to Allied invasion 1942; Commanded Fifth Army in invasion of Italy 1943, capture of Rome 1944; Gen. in Command 15th Army Group Dec. 1944, U.S. forces in Austria 1945-47, 6th U.S. Army 1947-49; Deputy U.S. Sec. of State 1947; Chief of Army Field Forces, Fort Monroe, Va. 1949-52; C.-in-C. UN Command and U.S. Far East Command 1952-53; Pres. The Citadel (Mil. Coll.) 1954-65, Pres Emer. 1965-; Chair. Govt. Cttee. to investigate CIA 1954; numerous hon. degrees; decorations include Hon. K.B.E. 1944, Grand Officier Légion d'honneur, Mil. Order of Suvorov 1st Degree (U.S.S.R.), D.S.M. with three oak leaf clusters (U.S. Army), D.S.C. (U.S.A.), Hon. K.C.B. 1955. *Publications:* Calculated Risk 1950, From the Danube to the Yalu 1954. *Leisure interests:* fishing, hiking. *Address:* 17 Country Club Drive, Charleston, South Carolina 29412, U.S.A. *Telephone:* 803-795 5333.

CLARK, Michael William, C.B.E., C.I.E.R.E., C.I.E.E.; British business executive; b. 7 May 1927, London; s. of late Sir Allen and Lady Jocelyn Clark (née Culverhouse); brother of Sir John A. Clark (q.v.); m. Shirley MacPhadyen 1955 (died 1974); two s. two d.; ed. Harrow School. Asst. to Cen. Sales Man. The Plessey Co. Ltd. 1950, Exec. Dir. 1951, Dir. 1953, Dir. Electronics and Equipment Group 1958; Chair. and Man. Dir. Plessey U.K. Ltd. 1962-65; Deputy Man. Dir. The Plessey Co. Ltd. 1962, Dir. of Corporate Planning 1965-67, Man. Dir. Telecommunications Group 1967-68, Dir. Home-based operations, 1969, Man. Dir. The Plessey Co. Ltd. 1970-75, Group Deputy Chair. and Deputy Chief Exec. 1976-; formed Plessey Electronics Systems 1976; Vice-Pres. Soc. of Electronic and Radio Technicians; mem. Council, Inst. of Dirs., mem. Council, British Inst. of Man.; mem. Nat. Electronics Council; fmr. Vice-Pres. Soc. of British Aerospace Cttee.; mem. of the Court, Univ. of Essex. *Leisure interests:* fishing, golf, forestry. *Address:* Braxted Park, Witham, Essex, England.

CLARK, Petula; British singer and actress; b. (as Sally Olwen) 15 Nov. 1934, Epsom; m. Claude Wolff 1961; one s. two d.; started career as child singer entertaining troops during Second World War; early appearances in films under contract to Rank Organization; made numerous recordings and television appearances in both England and France; success of single Downtown started career in the U.S.; films; Medal for the General 1944, Murder in Reverse 1945, London Town 1946, Strawberry Roan 1947, Here Come the Huggets, Vice Versa, Easy Money 1948, Don't Ever Leave Me 1949, Vote for Huggett 1949, The Huggetts Abroad, Dance Hall, The Romantic Age 1950, White Corridors, Madame Louise 1951, Made in Heaven 1952, The Card 1952, The Runaway Bus 1954, My Gay Dog 1954, The Happiness of Three Women 1955, Track the Man Down 1956, That Woman Opposite 1957, Daggers Drawn 1964, Finian's Rainbow 1968, Goodbye Mr. Chips 1969; has received two Grammy Awards and ten Gold Discs. *Address:* 89A Route de Florissant, Geneva 1206, Switzerland.

CLARK, Ramsey, B.A., A.M., J.D.; American lawyer and government official; b. 18 Dec. 1927, Dallas, Tex.; s. of Thomas Campbell Clark; m. Georgia Welch 1949; one s. one d.; ed. Univs. of Texas and Chicago. Marine Corps 1945-46; admitted to Texas Bar 1951, U.S. Supreme Court 1956, New York Bar 1970; practised law, Texas 1951-61, New York 1970-; Asst. Attorney-Gen., Dept. of Justice 1961-65, Deputy Attorney-Gen. 1965-67, Attorney-Gen. 1967-69; Adjunct Prof., Howard Univ. 1969-72, Brooklyn Law School 1973–. *Publication:* Crime in America 1970. *Address:* 37 West 12th Street, New York, N.Y. 10011, U.S.A. *Telephone:* 212-989-6613.

CLARK, Sir Robert Anthony, Kt., D.S.C.; British merchant banker; b. 6 Jan. 1924, London; s. of John Anthony Clark and Gladys Clark (née Dyer); m. Marjorie Lewis 1949; two s. one d.; ed. Highgate School, King's Coll., Cambridge; served in Royal Navy 1942-46; qualified ■ lawyer with Messrs. Slaughter and May, became partner 1953; Dir. Philip Hill, Higginson, Erlangers Ltd., now Hill Samuel & Co. Ltd. 1962-, Chair. 1974-, Chief Exec. 1974-77, 1978-, also Chief Exec. Hill Samuel Group 1976-; Chair. Industrial Devt. Advisory Bd. 1973-; Dir. British Leyland 1975-, Bank of England 1976-. *Leisure interests:* music, reading. *Address:* 100 Wood Street, London EC2P 2AJ (Office); Munstead Wood, Godalming, Surrey England (Home). *Telephone:* 01-628 8011 (Office); Godalming 7867 (Home).

CLARK, William Donaldson, M.A.; British international official and author; b. 28 July 1916, Haltwhistle, Northumberland; s. of John McClare Clark and Marion Jackson; ed. Oriel Coll., Oxford. Commonwealth Fellowship, Univ. of Chicago 1938; served Ministry of Information Services, Chicago, and British Embassy, Washington, D.C. 1939-45; London Editor Encyclopaedia Britannica 1946-49; Diplomatic Corresp. The Observer 1949-55; Adviser on Public Relations to the Prime Minister 1955-56; Corresp. of The Observer at New Delhi Mar.-Dec. 1957; Editor of The Week section of The Observer 1958-60; Consultant on current affairs to Associated Television 1958-66; Dir. of Overseas Devt. Inst. 1960-68; Dir. of Information and Public Affairs, World Bank 1968-72, Dir. External Relations 1973-74, Vice-Pres. External Relations 1974-. *Publications:* Less than Kin 1957, Number 10 (novel and play) 1966, Special Relationship (novel). *Leisure interests:* writing, talking and travel. *Address:* World Bank, 1818 H Street, N.W., Washington, D.C. 20433; 3407 Rodman Street N.W. Washington D.C. 20008, U.S.A. (Home). *Telephone:* 202-477-2466 (World Bank); 202-363-0499 (Washington).

CLARKE, Arthur Charles, B.SC.; British science writer and underwater explorer; b. 16 Dec. 1917, Minehead, Somerset; s. of Charles W. Clarke and Mary N. Willis; m. Marilyn Mayfield 1953 (dissolved 1964); ed. Huish's Grammar School, Taunton, and King's Coll., London. H.M. Exchequer and Audit Dept. 1936-41; R.A.F. 1941-46; Inst. of Electrical Engineers 1949-50; Technical Officer on first G.C.A. radar 1943; originated communications satellites 1945; Chair. British Interplanetary Soc. 1946-47, 1950-53; Asst. Editor Science Abstracts 1949-50; engaged on underwater exploration on Great Barrier Reef of Australia and coast of Ceylon (Sri Lanka) 1954-; Chancellor, Univ. of Moratuwa, Sri Lanka, 1979; extensive lecturing, radio and TV, U.K. and U.S.; UNESCO Kalinga Prize 1961; Stuart Ballantine Medal, Franklin Inst. 1963; AAAS—Westinghouse Science Writing Award 1969; AIAA Aerospace Communic ations Award 1974; John Campbell and Nebula Science Fiction Awards 1974; Hugo Award 1974. *Publications:* Non-fiction: Interplanetary Flight 1950, The Exploration of Space 1951, The Young Traveller in Space 1954 (publ. in U.S.A. as Going into Space), The Coast of Coral 1956, The Making of ■ Moon 1957, The Reefs of Taprobane 1957, Voice across the Sea 1958, The Challenge of the Spaceship 1960, The Challenge of the Sea 1960, Profiles of the Future 1962, Voices from the Sky 1965, The Promise of the Space 1968, The View from Serendip 1977; with Mike Wilson: Boy Beneath the Sea 1958, The First Five Fathoms 1960, Indian Ocean Adventure 1961, The Treasure of the Great Reef 1964, Indian Ocean Treasure 1964; with R. A. Smith: The Exploration of the Moon 1954; with Editors of Life: Man and Space 1964; with the Apollo XI Astronauts: First on the Moon 1970; Report on Planet Three 1972; with Chesley Bonestell: Beyond Jupiter 1972; Fiction: Prelude to Space 1951, The Sands of Mars 1951, Islands in the Sky 1952, Against the Fall of Night 1953, Childhood's End 1953, Expedition to Earth 1953, Earthlight 1955, Reach for Tomorrow 1956, The City and the Stars 1956, Tales from the White Hart 1957, The Deep Range 1957, The Other Side of the Sky 1958, Across the Sea of Stars 1959, A Fall of Moondust 1961, From the Ocean, From the Stars 1962, Tales of Ten Worlds 1962, Dolphin Island 1963, Glide Path 1963, Prelude to Mars 1965; with Stanley Kubrick: 2001: A Space Odyssey (novel and screenplay) 1968; The Lost Worlds of 2001 1971, 1972, Of Time and Stars 1972, The Wind from the Sun

1972, Rendezvous with Rama 1973, The Best of Arthur C. Clarke 1973, Imperial Earth 1975, The Fountains of Paradise 1979. *Leisure interests:* photography, table tennis, diving. *Address:* 25 Barnes Place, Colombo 7, Sri Lanka; c/o David Higham Associates, 5 Lower John Street, Golden Square, London, W1R 3PE, England. *Telephone:* Colombo 94255.

CLARKE, Sir Cyril Astley, K.B.E., M.D., SC.D., F.R.C.P., F.R.C.P.E., F.R.C.O.G., F.R.S., F.F.C.M., F.A.C.P., F.R.C.P.I.; British professor of medicine; b. 22 Aug. 1907, Leicester; s. of Astley V. and Ethel Mary (née Gee) Clarke; m. Frieda M. M. (Féo) Hart 1935; three s.; ed. Oundle School, Caius Coll., Cambridge, and Guy's Hosp. Medical School; house physician, Guy's Hospital 1932-34, Demonstrator, Dept. of Pathology and Physiology 1934-35, Chief Clinical Asst., Dept. of Dermatology 1935-36; Life Insurance Work 1936-39; Medical Specialist, R.N. 1939-45; Medical Registrar, Queen Elizabeth Hospital, Birmingham 1946; Consultant Physician, United Liverpool Hospitals and Liverpool Regional Hospital Bd. 1946-58, Hon. Consultant Physician 1958-; Reader in Medicine, Univ. of Liverpool 1958, Dir. Nuffield Unit of Medical Genetics 1963-72, Prof. of Medicine 1965-72; Pres. Royal Coll. of Physicians 1972-77, Harveian Soc. of London 1977-78; Dir. Medical Service Study Group, Royal Coll. of Physicians; Nuffield Research Fellow, Dept. of Genetics, Univ. of Liverpool Oct. 1972-; Hon. Fellow, Caius Coll., Cambridge; Hon. F.R.A.C.P.; Chair. of Council, Bedford Coll., London Univ.; Hon. D.Sc. (Edinburgh, Leicester, East Anglia, Birmingham, Liverpool, Sussex, Hull, Wales); BMA Essay Prize 1932, Soc. of Apothecaries of London Gold Medal for Therapeutics 1970, James Spence Medal, 1973, Fothergillian Medal, Medical Soc. of London 1977, Gairdner Award 1977. *Publications:* Genetics for the Clinician 1962 (2nd edn. 1964), Selected Topics in Medical Genetics 1969 (Editor), Human Genetics and Medicine 1970, 1977, Rhesus Haemolytic Disease, Selected papers and extracts (Editor) 1975, papers in professional journals. *Leisure interests:* small boat sailing, breeding butterflies. *Address:* Nuffield Unit of Medical Genetics, Crown Street, P.O. Box 147, Liverpool, L69 3BX; High Close, Thorsway, Caldy, Cheshire, England (Home). *Telephone:* 051-709 6022, ext. 2821, (Office); 051-625 8811 (Home).

CLARKE, Denzil Robert Noble; British chartered accountant and business executive; b. 9 July 1908, Simla, India; s. of Robert T. Clarke, I.C.S.; m. Ismay Preston 1942; one s. two d.; ed. Stonyhurst Coll.; joined British-American Tobacco Co. Ltd. (accounting), travelling in U.S.A., India, Burma, Ceylon, Europe and Caribbean 1932; Army Service 1942-45; Asst. to Finance Dir., British-American Tobacco Co. Ltd. 1945, Finance Dir. 1954-60, Deputy Chair. 1960-62, Vice-Chair. 1962-66, Chair. 1966-70; Dir. Sun Life Assurance Soc. *Leisure interests:* gardening, tennis. *Address:* Puffins, South Drive, Wokingham, Berks., England.

CLARKE, Ellis Emmanuel Innocent, LL.B.; Trinidadian lawyer and diplomatist; b. 28 Dec. 1917, Port of Spain; s. of Cecil E. I. Clarke and Elma Pollard; m. Eyrmyntrude Hagley 1952; one s. one d.; ed. St. Mary's Coll., Port of Spain, Trinidad, London Univ. and Gray's Inn, London; private law practice, Trinidad 1941-54; Solicitor-Gen. Trinidad and Tobago 1954-56; Deputy Colonial Sec. 1956-57; Attorney-Gen. 1957-61; Constitutional Adviser to the Cabinet 1961-62; Amb. to the United States 1962-73, and to Mexico 1966-73; Perm. Rep. to UN 1962-66; Rep. on Council of OAS 1967-73; Chair. of Bd., British West Indian Airways 1968-73; Gov.-Gen. and C.-in-C. of Trinidad and Tobago 1973-76, Pres. 1976-; Awarded first Trinity Cross (T.C.) 1969, G.C.M.G. 1972. *Leisure interests:* golf, racing, cricket. *Address:* Office of the President, St. Ann's, Trinidad and Tobago. *Telephone:* 62-41261.

CLARKE, Sir (Henry) Ashley, G.C.M.G., G.C.V.O.; British diplomatist; b. 26 June 1903, Stourbridge, Worcs.; s. of H. H. R. Clarke, M.D.; m. Frances Pickett Molyneux 1962; ed. Repton and Pembroke Coll., Cambridge; served with diplomatic missions in Hungary 1925, Poland 1927, Turkey 1928-31; mem. British Del. to League of Nations and Disarmament Conf. 1932-34; mission to Japan 1934-38; at Foreign Office 1939-44, latterly as Head, Far-Eastern Dept.; Minister at Lisbon 1944-46; Minister in Paris 1946-49; Deputy Under-Sec. of State, Foreign Office 1950-53; Amb. to Italy 1953-62; Gov. of B.B.C. 1962-67, of Nat. Theatre 1962-66, of British Inst. of Recorded Sound 1964-67; Chair. Royal Acad. of Dancing 1964-69; Chair. British-Italian Soc. 1962-67, Italian Art and Archives Rescue Fund 1966-70; mem. Cttee. of Man., Royal Acad. of Music 1967-73; mem. Advisory Council Victoria and Albert Museum 1969-73; Sec.-Gen. Europa Nostra 1969-71; London Adviser Banca Commercible Italiana 1962-70, and mem. of Gen. Bd. Assicurazioni Generali, Trieste 1964-75; Vice-Chair. Venice in Peril Fund 1971–; Hon. Fellow, Pembroke Coll., Cambridge, Royal Acad. of Music; Hon. Dr. Pol.Sc. of Genoa Univ.; Torta Prize 1974, Grand Cross of the Order of Merit of the Italian Repub., Grand Cross of the Order of St. Gregory the Great. *Publications:* Restoring Venice: the Church of the Madonna dell'Orto (with Philip Rylands) 1977. *Leisure interests:* music and the arts. *Address:* Dorsoduro, 1113, Venice, Italy. *Telephone:* 706-530.

CLARKE, Mrs. Irene Fortune Irwin, C.M., M.A.; Canadian publisher; b. 21 March 1903; d. of John and Martha (Fortune) Irwin; m. William Henry Clarke 1927 (deceased); two s. one d.; ed. Parkdale Collegiate Inst., Victoria Univ., and Univ. of Toronto. Pres. and Chair. Clarke, Irwin & Co. Ltd., since the death of her husband (the founder) in 1955; official of several civic and educational orgs. *Address:* Clarke, Irwin & Co. Ltd., 791 St. Clair Avenue West, Toronto, Ont. M6C 1B8, Canada (Office). *Telephone:* 416-654-3211.

CLAUDE, Albert; American (born Belgian) cell biochemist and cancer research worker; b. 23 Aug. 1899, Longlier; ed. Univ. of Liège. Institut für Krebsforschung, Berlin Univ. and Kaiser Wilhelm Inst., Berlin-Dahlem 1928-29; joined Rockefeller Inst. (now Univ.) 1929, Prof. Emer. 1972; Visiting Research Prof. Johnson Research Foundation 1967; Dir. Jules Borfet Inst., Brussels 1948-72, Emer. 1972; Prof. Emer., Univ. of Brussels 1969; mem. Acad. Nat. de Médecine, Int. Soc. for Cell Biology, Acad. Royale de Médecine, Acad. Royale des Sciences; Assoc. mem. Inst. de France; Foreign Assoc. mem. Royal Belgian Acad. of Sciences, Letters and Arts; Hon. mem. American Acad. of Arts and Sciences 1971, Royal Belgian Acad. of Medicine 1947, Soc. Française de Microscopie Electronique, Koninklijke Acad. voor Geneeskunde van Belgie, Soc. Française de Biologie, Soc. Belge de Biologie Cellulaire; Dr. h.c. (Modena) 1963, (Univ. J. Purkinje, Brno) 1971, (Rockefeller Univ.) 1971, (Univ. Catholique de Louvain) 1975, (Liège Univ.) 1975, (Rijks Univ., Ghent) 1975; Prix du Fonds Nat. de la Recherche Scientifique and Prix Scientifique Baron Holvoet 1965, Medal of Royal Belgian Acad. of Medicine 1965, L. G. Horwitz Prize (jointly), Columbia Univ. 1970, Paul Ehrlich and Ludwig Darmstaedter Prize (jointly) 1971, Nobel Prize for Medicine and Physiology 1974, Prix de la Foundation Rik et Nel Wouters 1976, Grand Cordon de l'Ordre de Léopold II, Commdr., Ordre des Palmes académiques. *Address:* Laboratoire de Biologie Cellulaire, rue des Champs Elysées 62, 1050 Brussels, Belgium.

CLAUDIUS-PETIT, Eugène Pierre; French politician and town planner; b. 22 May 1907, Angers; s. of Eugène Petit and Célestine Coué; m. Marie-Louise Moire (died 1975); one s. two d.; ed. Ecole Nationale Supérieure des Arts Décoratifs; fmr. cabinet maker and teacher; mem. Exec. Cttee. Franc-Tireur 1942; founder mem. Conseil Nat. de la Résistance; mem. Provisional Consultative Assembly of Algiers 1943-44; Pres. Mouvement de Libération Nationale 1945; founder mem. Union démocratique et socialiste de la Résistance (UDSR) 1946; Pres. Parl. Group of UDSR 1946-47, 1955; mem. two Constitutent Assemblies 1945-46; mem. Nat. Assembly 1946-55, 1958-62, 1967-; Minister of Reconstruction and Town Planning 1948-53; Minister of Labour 1954; Mayor of Firminy 1953-71; Vice-Pres. Nat. Assembly 1959-62, 1968-73, 1976-77; Pres. Entente Démocratique group, Nat. Assembly 1962, Progrès et Démocratie Moderne 1969-73; Vice-Pres. Centre Démocratie et Progrès 1969-; Pres. Union Centrale des Arts Décoratifs, Association des Amis de Le Corbusier, Aménagement et Nature; Officier de la Légion d'honneur, Compagnon de la Liberation, Rosette de la Résistance, Croix de guerre avec palme. *Address:* 15 rue des Barres, 75004 Paris, France.

CLAUSEN, Alden Winship (Tom); American banker; b. 17 Feb. 1923, Hamilton, Ill.; s. of Morton and Elsie (Kroll) Clausen; m. Mary Margaret Crassweller 1950; two s.; ed. Carthage Coll., and Univ. of Minnesota; joined Bank of America 1949; assigned to Nat. Div., Southern Calif. 1955; Asst. Vice-Pres. for financial relationships in electronics 1961-65; Head Nat. Div., San Francisco World H.Q. 1963; Senior Vice-Pres. 1965-68; Exec. Vice-Pres. and mem. Man. Cttee. 1968-69; Vice-Chair. Bd. of Dirs. 1969; Pres. and Chief Exec. Officer, Bank of America Jan. 1970-; Dir. Int. Monetary Conf. of American Bankers Assn., Pres. 1977; Dir. Assocs. of Harvard Business School; fmr. Pres. San Francisco Clearing House Assn.; Dir. United Way of America; Dir. U.S.-U.S.S.R. Trade and Econ. Council, Nat. Council for U.S.-China Trade, S.R.I. International; mem. Assn. of Reserve City Bankers, Calif. Bar Assn., Business Council, U.S. Treasury's Advisory Cttee. on Reform of the Int. Monetary System, The Conference Board, The Business Round Table; Hon. LL.D. (Carthage Coll.) 1970; Grand Officer, Order of Merit of Italy, Grand Cross of the Order of Queen Isabel la Católica. *Address:* Bank of America, P.O. Box 37000, San Francisco, Calif 94137, U.S.A. *Telephone:* 415-622-2472 (Office).

CLAUSETTI, Eugenio, D.IUR.; Italian music publisher b. 7 Jan. 1905, Naples. Vice-Pres. G. Ricordi & Co., Milan; Vice-Pres. Dischi

Ricordi S.p.A.; Vice-Pres. International Confederation of Publishers, Music Section; Pres. Italian Music Publishers Union. *Address:* c/o Ricordi & Co., via Berchet 2, Milan, Italy.

CLAUSSE, Gilbert-Roger; Belgian professor; b. 1 Dec. 1902, Saint-Mard, Luxembourg; m. Janine Huriau 1950; ed. Univ. of Liège. Prof. Athénée de St. Gilles 1928-37; Dir. French broadcasts, Institut Nat. Belge de Radiodiffusion 1937-46, Asst. Dir. of the Institut 1947-53, Dir.-Gen. 1953-57; Prof. Université Libre de Bruxelles 1945; Dir. of Centre d'Etude des techniques de diffusion collective 1958-. *Publications:* Critique matérialiste de l'éducation 1934, L'éducation de base pour un humanisme social 1935, Mesure des humanités anciennes 1937, La radio, huitième art 1945, La radio scolaire 1949, L'information à la recherche d'un statut 1951, L'information d'actualité: critique de la relation 1953, Synopsis de l'information d'actualité 1961, Les nouvelles: synthèse critique 1963, Turquie: développement du journalisme 1964, Le journal et l'actualité 1967, Belgique 1965—Presse, radio et télévision aux prises avec les élections 1968, L'enseignement universitaire du journalisme et de la communication sociale 1970.

CLAVÉ, Antoni; Spanish painter; b. 5 April 1913, Barcelona; ed. evening classes at Escuela Superior de Bellas Artes de San Jorge, Barcelona; magazine and book illustrator 1930-49; full-time painter since 1955; commenced carpet painting 1957 and metal work 1960; first one-man exhbn., Perpignan, France 1939, later in Paris, London, Oran, Gothenburg, Buenos Aires, Rome, Milan, Barcelona, Bilbao, Los Angeles, Geneva, Cologne and Tokyo; other exhbns.: "Thirty Years of Painting", Tokyo 1972, New York 1973, Paris 1978; Matarasso Prize, Biennal São Paulo 1957. *Major works:* illustrations for La Dame de Pique, Pushkin 1946, black lithographs Candide, Voltaire 1948, Gargantua, Rabelais 1953, La Gloire des Rois, Saint-John Perse 1976. *Address:* 4 rue de Châtillon, 75014 Paris, France.

CLAVEL, Bernard; French writer; b. 29 May 1923, Lons-le-Saunier; s. of Henri Clavel and Héloïse Dubois; m. Andrée David 1945; three s.; ed. primary school; left school aged 14 and apprenticed as pâtissier 1937; subsequently held various jobs on the land and in offices; painter and writer since age 15; has written numerous plays for radio and television and contributes to reviews on the arts and pacifist journals; Prix Eugène Leroy, Prix populiste, Prix Jean Maci, Prix Goncourt (for Les fruits de l'hiver), Grand Prix littéraire de la Ville de Paris. *Publications:* Major works include: L'ouvrier de la nuit 1956, Qui m'emporte 1958, L'espagnol 1959, Malataverne 1960, Le voyage du père 1965, L'Hercule sur la place 1966, La maison des autres 1962, Celui qui voulait voir la mer 1963, Le coeur des vivants 1964, Les fruits de l'hiver 1968, Victoire au Mans 1968, L'espion aux yeux verts 1969, Le tambour du bief 1970, Le massacre des innocents 1970, Le seigneur du fleuve 1972, Le silence des armes 1974, Lettre à un képi blanc 1975, La boule de neige 1975, La saison des loups 1976, La lumière du lac 1977, Ecrit sur la neige 1977, La fleur de sel 1977, La femme de guerre 1978. *Leisure interests:* sport, manual labour. *Address:* 6 Villa Poirer, 75015 Paris; c/o Robert Laffont, 6 place Saint-Sulpice, 75006 Paris, France. *Telephone:* 273-35-02.

CLAY, John Martin, B.A.; British banker; b. 20 Aug. 1927, Manchester; s. of the late Sir Henry Clay and of Gladys Priestman Clay; m. Susan Jennifer Miller 1952; four s.; ed. Eton Coll. and Magdalen Coll., Oxford. Director, Hambros Bank Ltd. 1961-, Deputy Chair. 1972-; Dir. Johnson and Firth Brown Ltd. 1973-, Chair. 1975-; Dir. Guardian and Manchester Evening News Ltd. 1967-, Hambros Ltd. 1970-, Furness Withy & Co. Ltd. 1972-, Berkeley Hambro Property Co. Ltd. 1975-, Wedgwood Ltd. 1975-; mem. Commonwealth Devt. Corpn. 1970-; Dir. Bank of England 1973-. *Leisure interests:* sailing. *Address:* Hambros Bank Ltd., 41 Bishopsgate, London E.C.2; Farningham House, Farningham, Dartford, Kent, DA4 0DH, England (Home). *Telephone:* 01-588 2851 (Office); Farningham 862266 (Home).

CLAYDEN, Rt. Hon. Sir (Henry) John, P.C.; lawyer; b. 26 April 1904, Transvaal; s. of Harold Clayden and Florence Richardson; m. Gwendoline Lawrance 1948; ed. Cape Town, Charterhouse and Brasenose Coll., Oxford. Barrister Inner Temple 1926; Advocate Transvaal 1927; war service 1940-45, S.A. Engineer Corps, S.A. Staff Corps; K.C. 1945; Judge of Supreme Court of S. Africa, Transvaal Provincial Division 1946-55, 1964-65; Judge of Federal Supreme Court, Fed. of Rhodesia and Nyasaland 1955-60; Chief Justice of Fed. Supreme Court, Fed. of Rhodesia and Nyasaland 1960-64, Acting Gov.-Gen. of Fed. May-June 1961; Chair. Hammarskjöld Accident Comm. 1962. *Address:* 8 Walton Street, London, S.W.3, England. *Telephone:* 01-589 1300.

CLAYTON, Jack; British film director; b. 1921; entered film industry 1935; served in R.A.F. Film Unit 1939-45; Production Man. for An Ideal Husband; Assoc. Producer Queen of Spades, Flesh and Blood, Moulin Rouge, Beat the Devil, The Good Die Young, I am a Camera; Producer and Dir. The Bespoke Overcoat 1955; Dir. Room at the Top 1958; Producer and Dir. The Innocents 1961; Dir. The Pumpkin Eater 1964; Producer and Dir. Our Mother's House 1967; Dir. The Great Gatsby 1974. *Address:* Heron's Flight, Marlow, Buckinghamshire, England.

CLAYTON, Robert James, C.B.E., M.A., F.ENG.; British physicist and company executive; b. 30 Oct. 1915, London; m. Joy Kathleen King 1949; ed. Latymer Upper School, Christ's Coll., Cambridge. Man., Gen. Electric Co. (GEC) Applied Electronics Laboratories 1955; Deputy Dir. GEC Hirst Research Centre 1960; Man. Dir. GEC (Electronics) 1963, GEC (Research) 1966; Tech. Dir. The General Electric Co. Ltd. 1968-; Dir. of a number of GEC operating cos.; mem. of a number of govt. and industry cttees. on electronics, particularly research; Pres. Inst. of Electrical Engs. 1975-76. *Publications:* papers in Proceedings of the Institution of Electrical Engineers. *Leisure interests:* theatre, music. *Address:* The General Electric Company Ltd., c/o GEC Hirst Research Centre, East Lane, Wembley, Middx., HA9 7PP, England. *Telephone:* 01-904 1262.

CLEGG, Sir Cuthbert Barwick, Kt., T.D.; British banker; b. 9 Aug. 1904, Lancashire; s. of Edmund Barwick Clegg, J.P., D.L.; m. Helen Margaret Jefferson 1930; one s.; ed. Charterhouse and Trinity Coll., Oxford. Cotton Industry Working Party 1946; Cotton Manufacturing Comm. 1947-49; Anglo-American Council on Productivity 1948-52; Pres. British Employers' Confederation 1950-52; mem. Econ. Planning Bd. 1949-53, British Productivity Council 1952-54; Pres. U.K. Textile Mfrs. Assn. 1961-69, Cotton, Silk and Man-made Fibres Research Assn. 1962-67, Inst. of Bankers 1968-69; Chair. Martins Bank Ltd. 1964-69; Dir. Barclays Bank Ltd. 1969-75; Dir. Halifax Building Soc. 1960-76, Vice-Chair. 1971-76. *Address:* Willow Cottage, Arkholme, Carnforth, Lancs., England. *Telephone:* Hornby 21205.

CLEMEN, Wolfgang; German university professor; b. 29 March 1909, Bonn; s. of Prof. Paul Clemen; m. Ursula Gauhe 1943; two s. one d.; ed. Univs. of Heidelberg, Freiburg, Bonn, Berlin, Munich and Cambridge. Lecturer, Cologne Univ. 1938, Kiel Univ. 1939; Prof. of English, Kiel Univ. 1940-46, Munich Univ. 1946-; mem. Bavarian Acad. of Sciences 1948; Vice-Pres. German Shakespeare Soc. 1949; Visiting Prof. Columbia Univ., New York 1953; Pres. Modern Humanities Research Assn. 1964; Corresp. mem. British Acad. 1964; Churchill Foundation Visiting Prof. Bristol 1964; Hon. mem. American Modern Language Assn. and Modern Humanities Research Assn. 1965; Life Trustee Shakespeare Birthplace Trust 1977; Hon. D.Litt. (Birmingham) 1964, Hon. D.Phil. (Rouen) 1967, Dr. h.c. (Uppsala) 1977; Grosses Bundesverdienstkreuz 1969; Hon. C.B.E. 1972. *Publications:* Shakespeares Bilder 1936, Der junge Chaucer 1938, Shelleys Geisterwelt 1948, The Development of Shakespeare's Imagery 1951, 1959, English Tragedy before Shakespeare 1961, Chaucer's Early Poetry 1963, Kommentar zu Shakespeares Richard III 1957, Shakespeare's Soliloquies 1964, Spenser's Epithalamion 1964, Shakespeare's Midsummer Night's Dream (ed. 1963, Past and Future in Shakespeare's Drama 1966, A Commentary on Shakespeare's Richard III 1968, Das Problem des Stilwandels in der engl. Dichtung 1968, Was ist literarischer Einfluss? 1968, Das Drama Shakespeares 1969, Shakespeare's Dramatic Art 1972, Shakespeare and Marlowe 1972, G. M. Hopkins Gedichte (English and German edn.) 1973, The Pursuit of Influence 1974, Sympathielenkung bei Shakespeare, Einleitung 1977, Originalität und Tradition in der engl. Dichtungs Geschichte 1978, Some Aspects of Style in Shakespeare's Henry VI plays 1979. *Leisure interest:* chamber music. *Address:* 8207 Endorf, Upper Bavaria, Federal Republic of Germany. *Telephone:* 326.

CLÉMENT, René; French film director; b. 18 March 1913; ed. School of Architecture, Paris. Chevalier, Légion d'honneur, Commdr. des Arts et des Lettres; Cannes Festival Prize (1946, 1947, 1952, 1954), Grand Int. Prize Venice Biennale (1952) etc. *Films include:* Bataille du rail 1946, Les maudits 1947, Walls of Malapaga 1948, Château de verre 1950, Au delà des grilles 1951, Jeux interdits 1952, Lion d'or 1952, Monsieur Ripois 1954, Gervaise 1956, Sea Wall 1958, Demain est un autre jour 1962, Quelle joie de vivre, Purple Noon (Plein Soleil) 1960, The Love Cage (Les félins) 1964, Paris brûle-t-il? 1965, A la recherche du temps perdu 1966, Le passager de la pluie 1970, La maison sous les arbres 1971, La course du lièvre à travers les champs 1971, The Baby Sitter 1975. *Publications:* Bataille du rail (with C. Audry) 1947. *Address:* 10 avenue Saint-Roman, Monte Carlo, Monaco; and 91 avenue Henri Martin, 75016 Paris, France.

CLEMENTS, George L.; American businessman; b. 24 Feb. 1909, Chicago; s. of Fred Clements and Ina Small; m. Ruth Howell

1933; one s. one d.; ed. Univ. of Illinois; joined Jewel Tea Co. Inc. (now Jewel Cos., Inc.) Chicago 1929, Dir. 1948-, Pres. 1951-65, Chair. 1965-70, Chair. Exec. Cttee. 1970-73; Dir. G. B. Enterprises, Belgium, Super Bazars, S.A., Belgium, Northern Illinois Gas Co., Universal Oil Products Co.; Dir. Chicago Assen. of Commerce; Dir. and mem. Exec. Cttee. Nat. Assen. of Commerce; Dir. and mem. Exec. Cttee. Nat. Assen. of Food Chains; Chair. Board of Higher Educ., State of Illinois 1969-72. *Leisure interests:* hunting, golf, reading. *Address:* P.O. Box 866, Carefree, Ariz. 85331, U.S.A. (Home).

CLEMENTS, Sir John, Kt., C.B.E., F.R.S.A.; British actor, manager and producer; b. 25 April 1910, m. Kay Hammond 1946; made first stage appearance 1930; played many Shakespearean parts with Ben Greet's Co.; founded Intimate Theatre, Palmers Green, London, appearing in and directing weekly repertory 1935-40; produced Yes and No at Ambassadors Theatre 1937, Private Lives 1944; played Coriolanus, Petruchio with Old Vic Co. 1947-48; appeared in Edward My Son 1948; directed and appeared in The Beaux' Stratagem 1949-50; managed Saville Theatre 1955-57, presenting and appearing in The Wild Duck, The Rivals, The Seagull, The Doctor's Dilemma, The Way of the World; mem. Arts Council Drama Panel 1953-58; adviser on Drama to Associated Rediffusion Ltd. 1955-56, producing films for them; mem. Council Royal Acad. Dramatic Art 1957-; appeared in and directed The Rape of the Belt 1957-58; appeared in Gilt and Gingerbread 1959, The Marriage-go-round 1959-60, J.B. 1961, The Affair 1961; Old Vic American tour 1962; dir. and appeared in Robert and Elizabeth 1964; Dir. Chichester Festival Theatre 1966-73; productions include The Clandestine Marriage, The Fighting Cock, The Cherry Orchard, Macbeth 1966, The Farmer's Wife, Heartbreak House, The Beaux' Stratagem, An Italian Straw Hat 1967, The Unknown Soldier and his Wife, The Cocktail Party, The Tempest, The Skin of our Teeth 1968, Antony and Cleopatra, The Magistrate, The Caucasian Chalk Circle, The Country Wife 1969, Peer Gynt, Vivat, Vivat Regina!, The Proposal, Arms and the Man, The Alchemist 1970, The Rivals, Dear Antoine, Caesar and Cleopatra, Reunion in Vienna 1971, The Beggar's Opera, The Doctor's Dilemma 1972, The Director of the Opera, Dandy Dick 1973, (directed and acted in) The Fortune Hunters 1975, (directed and acted in) The Case in Question 1975. *Films include:* Things to Come, Knight without Armour, The Divine Spark, South Riding, Rembrandt, The Four Feathers, Convoy, Ships with Wings, Undercover, They Came to ■ City, The Silent Enemy, Train of Events, The Mind Benders, Oh What a Lovely War! *Address:* 7 Royal Crescent, Brighton, Sussex, BN2 1AT, England.

CLEMINSON, James Arnold Stacey, M.C.; British company director; b. 31 Aug. 1921, Hull, Yorkshire; s. of Arnold Russell and Florence Stacey Cleminson; m. Helen Juliet Measor; one s. two d.; ed. Bramcote and Rugby schools; served British Army, Parachute Regt. 1940-46; joined Reckitt and Colman Overseas 1946; Dir. and later Vice-Chair. J. J. Colman Norwich 1960-69; Dir. Reckitt and Colman Ltd. 1969, Chair. Food Div. 1970, Deputy Chair. 1976-77, Chair. and Chief Exec. 1977-; Chair. Exec. Cttee., Endeavour Training; Trustee, Airborne Forces Security Fund. *Leisure interests:* riding, fishing, shooting, tennis, golf. *Address:* Reckitt and Colman Ltd., P.O. Box 26, Burlington, Lane, London, W.4; Loddon Hall, Hales, Norfolk, England. *Telephone:* 01-994 6464 (Office).

CLEMMENSEN, Carl Johan; Danish economist; b. 26 Dec. 1916; m. Ingrid Clemmensen 1945; ed. Rungsted Statsskole and Københavns Universitet. Sec., Danish Employers' Confed. 1946-49, Principal 1949-55, Chief of Statistical-Econ. Dept. 1955-60, Vice-Dir. 1960-62, Dir. and mem. Board of Dirs. 1962-; mem. numerous Govt. and other Cttees.; Editor Statistiken. *Address:* Dansk Arbejdsgiverforening, Vester Voldgade 113, Copenhagen V (Office) Hummeltoften 13a, Virum, Denmark (Home). *Telephone:* (02) 85-57-57 (Home).

CLEMMESEN, Johannes, D.M.SC.; Danish pathologist; b. 14 Nov. 1908, Copenhagen; s. of Capt. Johan Clemmesen and Marie Gran; ed. Metropolitan School and Univ. of Copenhagen. Pathologist, Old People's Town 1950-55; Assoc. Prof. of Pathology, Royal Dental Coll. 1950-56; Chief Pathologist, Finsen Inst., Copenhagen 1955-78; Dir. Danish Cancer Registry 1942-; mem. WHO Sub-cttee. on Cancer Registration and other cttees. on statistics and endemiology of cancer 1950-; mem. Exec. Cttee. Int. Union against Cancer 1954-62; mem. Secr., Cttee. on Geographical Pathology of Cancer 1950-62, Cttees. on Tumour Nomenclature 1950-65; Chair. Co-ordinating Cttee. for Human Tumour Investigations 1973-75; Pres. Int. Assen. for Comparative Leukemia Research 1975-77; mem. Wissenschaftliches Beirat, Deutsches Krebsforschungszentrum, Heidelberg; mem. Int. Comm. for Protection against Environmental Mutagens and Carcinogens 1978; Dr. med. h.c. Aarhus 1978. *Publications:* X-radiation and Immunity to Heterotransplantation 1938, Statistical Studies in the Aetiology of Malignant Neoplasms 1965, 1969, 1974, 1977. *Address:* Finsen Institute, Strandboulevard 49, Copenhagen 2100; Home: Stockholmsgade 43, Copenhagen 2100, Denmark. *Telephone:* 01-26-2696 (Office); 01-42-8600 (Home).

CLERCQ, Willy De, LL.D.; Belgian barrister and politician; b. 8 July 1927, Ghent; m. Fernande Fazzi; two s. one d. Barrister, Court of Appeal, Ghent; with Gen. Secretariat of UN, New York 1952; mem. Chamber of Reps. for Ghent-Eklo 1958-; Deputy Prime Minister, in charge of Budget 1966-68; Deputy Prime Minister 1973-74, Minister of Finance 1973-77; Parti pour la Liberté et le Progrès (PLP); Head of PLP Group; Chair. PLP 1971; mem. Interparliamentary Union; part-time teacher Univs. of Ghent and Brussels. *Leisure interests:* sport, travel. *Address:* c/o B7C Bugssestraat 12, 9000 Ghent, Belgium.

CLERDENT, Baron Pierre Charles Jean Joseph, D. EN D.; Belgian business executive; b. 29 April 1909, Liège; s. of Frédéric Clerdent; m. Simone Lambeaux 1940; ed. Univ. of Liège. Advocate, Court of Appeal 1934-45; Gov. Province of Luxembourg 1946-53; Province of Liège 1954-71; Chair. Admin. Bd. S. A. Cockerill; Pres. European Cttee. for use of River Meuse; decorations from Belgium, France, U.K., U.S.A., Germany, Italy, Netherlands, Luxembourg, Greece, Austria, Poland, Sweden, Iran and Senegal. *Leisure interest:* golf. *Address:* Le Hinon, 1 rue de Tilff, B-4950 Beaufays, Belgium.

CLERIDES, Glavkos John, B.A., LL.B.; Cypriot lawyer and politician; b. 24 April 1919, Nicosia; s. of John Clerides, Q.C., C.B.E.; m.; one c.; ed. Pancyprian Gymnasium, Nicosia, King's Coll., London Univ., Gray's Inn, London; served with R.A.F. 1939-45; shot down and taken prisoner 1942-45 (mentioned in despatches); practised law in Cyprus 1951-60; Head of Greek Cypriot Del., Constitutional Comm. 1959-60; Minister of Justice 1959-60; mem. House of Reps. 1960-, Pres. of House 1960-76; Acting Pres. of Cyprus July-Dec. 1974; rep. Greek Cypriots in UN sponsored intercommunal talks 1975-76; rep. to Consultative Assembly of the Council of Europe; Chair. Democratic Rally 1976-; founder and leader of Unified Party; Gold Medal, Order of the Holy Sepulchre. *Address:* 56 Metochiou Street, Nicosia, Cyprus.

CLERMONT, Friedrich; German agriculturalist and politician; b. 5 April 1934, Flensburg. Chair., Collective Farm, Klinkow 1957-69; Head, Co-operative Farm Dedelow 1969-; mem. Socialist Unity Party (SED) 1954; mem. Bezirk exec. of SED 1962-; mem. Volkskammer 1963-; mem. Cttee. for Agriculture, Forestry and Food Supply, Volkskammer; mem. State Council 1971-76; Order of Banner der Arbeit and other decorations. *Address:* Staatsrat der Deutschen Demokratischen Republik, Marx-Engels-Platz, 102 Berlin, German Democratic Republic.

CLEVE, Nils Joachim Otto, PH.D.; Finnish archaeologist; b. 1905, Helsinki; s. of Otto Cleve and Anna Strålman; m. Marianne Albrecht 1931; one s. one d.; ed. Univ. of Helsinki and Åbo Acad. Dir., Municipal Museum of Turku 1934-45; Dir., Historical Dept., Nat. Museum (Kansallismuseo) 1945-59; Lecturer Åbo Acad. 1944-50, Univ. of Helsinki 1948-63; State Archaeologist (Nat. Museum) 1959-71. *Address:* Mäyrätie 6. B, Helsinki 80, Finland. *Telephone:* 789918.

CLEVELAND, Harlan, A.B.; American administrator, educationist and government official; b. 19 Jan. 1918, New York; s. of Stanley Matthews and Marian Phelps (van Buren); m. Lois W. Burton 1941; one s. two d.; ed. Princeton and Oxford Univs.; served Allied Control Commission, Rome 1944-45; served UNRRA, Rome and Shanghai 1946-48: Econ. Co-operation Admin., Washington 1948-51; Asst. Dir. for Europe, Mutual Security Agency 1952-53; Exec. Editor The Reporter, New York 1953-55, Publr. 1955-56; Dean, Maxwell Graduate School of Citizenship and Public Affairs, Syracuse Univ. 1956-61; Asst. Sec. for Int. Organization Affairs, State Dept. 1961-65; Amb. to NATO 1965-69; Pres. Univ. of Hawaii 1969-74; Dir. Aspen Program in Int. Affairs Sept. 1974-; Chair. Weather Modification Advisory Bd. 1977-78; Distinguished Visiting Tom Slick Prof. of World Peace, LBJ School of Public Affairs, Univ. of Texas 1979; Democrat. *Publications:* The Obligations of Power 1966, NATO: The Transatlantic Bargain 1970, The Future Executive 1972, The Third Try at World Order 1977; Co-author: The Overseas Americans 1960, Human Growth: An Essay on Growth, Values and the Quality of Life 1978. *Leisure interests:* sailing, golf, writing. *Address:* P.O. Box 2820, Princeton, N.J. 08540, U.S.A. *Telephone:* (609) 921-1141.

CLIBURN, Van (Harvey Lavan, Jr.); American pianist; b. 12 July 1934; studied with mother and at Juilliard School of Music; public appearances, Shreveport 1940; début, Houston Symphony

Orchestra 1952, New York Philharmonic Orchestra 1954, 1958; concert pianist on tour U.S. 1955-, U.S.S.R. 1958; appearances in Brussels, London, Amsterdam, Paris, etc.; Hon. H.H.D. (Baylor), numerous prizes. *Address:* 455 Wilder Place, Shreveport, La. 71104, U.S.A. (Home).

CLIFFORD, Clark McAdams; American lawyer and government official; b. 25 Dec. 1906, Fort Scott, Kan.; ed. Washington Univ.; Holland, Lashly and Donnell, St. Louis, Mo. 1928-33, Holland, Lashly and Lashly 1933-37, Partner, Lashly, Lashly, Miller and Clifford 1938-68, Senior Partner, Clifford & Miller, Washington 1950-68, 1969-; Special Counsel, President of U.S.A. 1946-50; Chair. Foreign Intelligence Advisory Bd. 1963-68; Sec. for Defense 1968-69; Dir. Phillips Petroleum Co., Knight-Ridder Newspapers; fmr. Dir. Nat. Bank of Washington, Washington-Sheraton Corpn. *Address:* 815 Connecticut Avenue, Washington, D.C. 20006 (Office); 9421 Rockville Pike, Bethesda, Md. 20014, U.S.A. (Home). *Telephone:* Oliver 2-2842 (Home).

CLINCHY, Everett Ross, B.S., M.A., PH.D.; American clergyman and educator; b. 16 Dec. 1896, N.Y.; s. of James Hugh Clinchy and Lydie Stagg; m. Winifred Mead 1918; one s. two d.; ed. Wesleyan Univ., Lafayette Coll., Columbia Univ., and Drew Univ.; Chaplain, Wesleyan Univ. 1924-28; Pres. Nat. Conf. of Christians and Jews Inc. 1928-58; Pres. The Council of World Tensions 1950-65; fmr. Dir. Williamstown Inst. of Human Relations; Pres. Inst. on Man and Science 1963-72, Chair. Exec. Cttee. 1972-. *Publications:* All in the Name of God 1931, Centers in Human Relations 1940, Handbook on Human Relations 1950. *Address:* Institute on Man and Science, Rensselaerville, N.Y. 12147 (Office); Little Meadow, Guilford, Conn. 06437, U.S.A. (Home). *Telephone:* 518-797-3477.

CLINTON, Bill, J.D.; American politician; b. 19 Aug. 1946, Hope, Arkansas; s. of Roger Clinton and Virginia Dwire; m. Hilary Rodham 1975; ed. Hot Springs High School, Georgetown Univ., Univ. Coll., Oxford, Yale Law School; Professor, University of Arkansas Law School 1974-76; McGovern Campaign Co-ordinator, Texas 1972; Democratic Nominee, U.S. House Third District, Arkansas 1974; Carter Campaign Co-ordinator, Arkansas 1976; Attorney-General, Arkansas 1977-79, State Gov. 1979-; Chair. Democratic Party Affirmative Action 1975; mem. U.S. Supreme Court Bar. *Leisure interests:* jogging, swimming, tennis, reading. *Address:* Office of the Governor, 250 State Capitol, Little Rock, Ark. 72201; Governor's Mansion, 1800 Center, Little Rock, Ark. 72206, U.S.A. *Telephone:* 501 371-2345 (Office); 501 376-6884 (Home).

CLINTON, Mark; Irish politician; m.; seven c.; ed. Warrenstown Coll. of Agriculture, Univ. Coll. Dublin; Fine Gael M.P. for West County Dublin 1961-; fmr. Chair. Dublin County Council, County Dublin Vocational Educ. Cttee., Eastern Health Board; fmr. Del. to Inter-Parl. Union; mem. Council of Europe; Minister for Agriculture and Fisheries 1973-76. *Address:* c/o Department of Agriculture and Fisheries, Agriculture House, Kildare Street, Dublin 2, Ireland.

CLITHEROE, 1st Baron, cr. 1955, of Downham; **Ralph Assheton,** Bt., P.C., K.C.V.O., D.L., M.A., F.S.A.; British farmer; b. 24 Feb. 1901, Worston; s. of Sir Ralph Assheton, 1st Bart.; m. Hon. Sylvia Hotham, F.L.A.S., F.R.I.C.S., 1924; two s. one d.; ed. Eton Coll., and Christ Church, Oxford; Barrister, Inner Temple 1925; mem. London Stock Exchange 1927-39; Nat. Conservative M.P. Rushcliffe Div. of Notts. 1934-45, City of London Nov. 1945-50, Blackburn West 1950-55; Parl. Sec. to Ministry of Labour and Nat. Service 1939-42, to Ministry of Supply 1942-43; Financial Sec. to Treasury 1943-44; Chair. Conservative Party 1944-46; Chair. Public Accounts Cttee. 1948-50, Select Cttee. on Nationalized Industries 1951; Chair. Mercantile Investment Trust Co. Ltd. 1958-71; Dir. Tanganyika Concessions Ltd. 1962-76; fmrly. Dir. Tube Investments (Ltd.), Nat. Westminster Bank Ltd., Borax (Holdings) Ltd., Coutts and Co., Rio Tinto Zinc Ltd., and other companies; fmr. Lord Lieut. County of Lancs.; fmr. mem. Council Duchy of Lancaster; High Steward of Westminster. *Leisure interests:* shooting, farming. *Address:* 17 Chelsea Park Gardens, London, S.W.3; Downham Hall, Clitheroe, Lancs., England. *Telephone:* 01-352 4020; Clitheroe 41210.

CLORE, Sir Charles, Kt.; British businessman; b. 26 Dec. 1904; m. 1943 (dissolved); one s. one d.; ed. in London; Life Pres., Sears Holdings Ltd.; Chair., Princes Investments Ltd., Taylor and Lodge Ltd., Kaye and Stewart Ltd., British Shoe Corpn.; Dir. Sears Industries Inc. (U.S.A.), and other companies. *Leisure interests:* farming, shooting.
[Died July 1979].

CLOUD, Preston, PH.D.; American research biogeologist; b. 26 Sept. 1912, Mass.; s. of Preston Cloud and Pauline Wiedemann; m. Janice Gibson 1972; one s. two d. (by previous marriage); ed. George Washington and Yale Univs; Geologist, U.S. Geological Survey 1942-61, 1974, Chief Paleontology and Stratigraphy Branch 1949-59, Rep. in Oceanography 1959-61; taught at Harvard Univ. 1946-48, Mo. School of Mines and Metallurgy 1940-41, Univ. of Minn. 1961-65, Univ. of Tex. 1962-78, U.C.L.A. 1965-68, Univ. of Calif. (Santa Barbara) 1968-74, Salzburg Seminar American Studies 1973, A. L. du Toit Memorial Lecturer 1975; has served on advisory panels to numerous orgs., including NASA, U.S. Dept. of Interior and Smithsonian Inst. and on Congressional panels; Assoc. Editor American Journal of Science, Quarterly Review of Biology, The Geomicrobiology Journal, Resources Policy and Precambrian Research; mem. and Chair. various cttees. of Nat. Research Council, Nat. Acad. of Sciences and Geological Soc. of America; mem. Nat. Acad. of Sciences (Council 1972-75, Exec. Cttee., 1973-75), Nat. Research Council (Gov. Bd. 1972-75), American Philosophical Soc., American Acad. of Arts and Sciences, Explorers' Club; Fellow, American Soc. of Naturalists, Paleontological Soc. of America, American Geophysical Union; Life Fellow, Geological Soc. of America (Council 1972-75), American Assn. for Advancement of Science; hon. mem. Paleontological Soc. of India and several other nat. and int. socs.; A. Cressy Morrison Prize, N.Y. Acad. of Sciences 1940, Rockefeller Public Service Award 1956, Distinguished Service Award and Gold Medal, U.S. Dept. of Interior 1959, Medal, Paleontological Soc. of America 1971, Lucius Wilbur Cross Medal, Yale Graduate School 1973, Penrose Medal of Geological Soc. of America 1976, C. D. Walcott Medal of Nat. Acad. of Sciences 1977. *Publications include:* Resources and Man 1969, Adventures in Earth History 1970, Cosmos, Earth and Man 1978 and various technical books; contributions to professional journals on the biological and sedimentological aspects of geology, both land and marine, on the origin and early evolution of life and on the interactions between biospheric, atmospheric and lithospheric evolution. *Leisure interests:* skiing, back-packing, music. *Address:* U.S. Geological Survey, Biogeology Clean Laboratory, University of California, Santa Barbara, Calif. 93106; 400 Mountain Drive, Santa Barbara, Calif. 93103, U.S.A. (Home). *Telephone:* 805-961-3514 (Office).

CLURMAN, Harold Edgar; American theatrical director and critic; b. 18 Sept. 1901; s. of Samuel M. Clurman and Bertha Saphir; ed. New York public schools, Columbia Univ. and the Sorbonne, Paris; actor and stage manager 1924-29; playreader for Theatre Guild, New York 1929-31; co-founder Group Theatre, New York 1931, Man. Dir. 1937-41; Art Columnist To-Morrow magazine 1946-53; Drama Critic New Republic 1948-53, The Nation 1953-; Exec. Consultant Repertory Theatre Lincoln Center 1963-; Visiting Prof. Hunter Coll., New York 1968-; productions directed include Awake and Sing 1935, Golden Boy (Odets) 1937, Montserrat (Robles) (Habimah Theatre, Tel Aviv) 1941, Member of the Wedding (Carson McCullers) 1949, Desire Under the Elms (O'Neill) 1952, The Autumn Garden (Hellman) 1953, Tiger at the Gates (Giraudoux) (London and New York), on television 1960, Waltz of the Toreadors (Anouilh) 1956, Orpheus Descending (Tennessee Williams), The Touch of the Poet (O'Neill) 1958, Heartbreak House (Shaw) 1959, A Shot in the Dark (Archard-Kurnitz) 1961, Uncle Vanya; Hon. D.Litt. (Bard Coll.), Hon. Dr. (Boston Univ., Ripon Coll., Carnegie Mellon Inst.); Chevalier, Légion d'honneur. *Publications:* The Fervent Years 1945, Lies like Truth 1958, The Naked Image 1969, On Direction 1972, The Divine Pastime 1974, All People Are Famous 1974, Ibsen 1977. *Leisure interests:* travel, music, art, dance, reading. *Address:* 205 West 57th Street, New York, N.Y. 10019, U.S.A.

CLUTTON-BROCK, (Arthur) Guy; British and Rhodesian (dual nationality) agriculturist and social worker; b. 5 April 1906, Northwood, Middx.; s. of Henry and Rosa Clutton-Brock; m. Frances M. Allen 1934; one d.; ed. Rugby School and Magdalene Coll., Cambridge; Cambridge House University Settlement 1927-29; Rugby House Settlement 1929-33; Borstal Service 1933-36; Principal Probation Officer, Metropolitan Area of London 1936-40; Head Oxford House University Settlement 1940-45; Youth and Religious Affairs Officer, British Military Govt., Berlin 1945; with Christian Reconstruction in Europe 1946; farm labourer in U.K. 1947-48; Diocesan Agricultural Officer, Mashonaland (Southern Rhodesia) and Dir. of Farm Activities, St. Faith's Mission, Rusape (Southern Rhodesia) 1949-59; briefly detained by Rhodesian Govt. on declaration of emergency March 1959; Hon. Dir. Bamangwato Devt. Assn., Bechuanaland Protectorate 1961-62; Field Officer of the African Trust 1962-65; retd. 1966; Treas. non-racial Cold Comfort Farm Soc.; deported to Britain 1971; Hon. Fellow Magdalene Coll., Univ. of Cambridge 1973. *Publications:* Dawn in Nyasaland 1959, Cold Comfort Confronted. *Leisure interest:* sitting under a tree with others talking and smoking. *Address:* Gelli Uchaf, Llandyrnog, Denbigh, L16 4HR, N. Wales. *Telephone:* Llandyrnog 482.

CLUVER, Eustace H., K.ST.J., E.D., M.A., M.D., B.CH., D.P.H., F.R.S.H.; South African emeritus professor of preventive medicine; b. 28 Aug. 1894; m. Eileen Ledger 1929; three d.; ed. Victoria Coll., Stellenbosch, and Oxford Univ.; Rhodes Scholar to Oxford 1913; fmr. Prof. of Physiology Witwatersrand Univ. Medical School, Sec. for Public Health and Dir. S. African Inst. for Medical Research Johannesburg; Prof. of Medical Education and Dean Faculty of Medicine, Univ. of Witwatersrand. *Publications:* Medical and Health Legislation in the Union of South Africa 1948, Social Medicine 1951, Recent Medical and Health Legislation 1955, Public Health in South Africa (6th edn.) 1959. *Leisure interest:* afforestation. Address: Mornhill Farm, Walkerville, Transvaal, South Africa. *Telephone:* Walkerville 1212.

CLYNE, Hon. John Valentine, C.C.; Canadian business executive; b. 14 Feb. 1902, Vancouver; s. of Henry Clyne and Martha Clyne; m. Betty Ventris Ann Somerset 1927; one s. one d.; ed. Florence Nightingale School and King Edward High School, Vancouver, Univ. of British Columbia, London School of Economics and King's Coll., London; various business firms 1923-29; Partner, Macrae, Duncan and Clyne, Vancouver 1929-46, Campney, Owen, Clyne and Murphy 1947-50; Judge of Supreme Court of British Columbia 1950-57; Chair. of Bd. MacMillian and Bloedel Ltd., Vancouver 1958-59; Chair. of Bd. and Chief Exec. Officer, MacMillan, Bloedel and Powell River Ltd. (name changed to MacMillan Bloedel Ltd. April 1966), Vancouver 1960-72, Chair. of the Bd. 1972-73; fmr. Chair. Canadian Maritime Comm.; Royal Commr. in Whatshan Power House Inquiry, Milk Industry Inquiry, Land Expropriation Inquiry; fmr. Chair. Prime Minister's Advisory Group on Executive Compensation in the Public Service; Pres. Canadian Inst. for Advanced Legal Studies, Chair. British Columbia Heritage Trust, Consultative Cttee. on Implications of Telecommunications for Canadian Sovereignty 1978-; Chancellor, Univ. of British Columbia 1978-. *Leisure interests:* sport, especially rugby football, theatre. *Address:* MacMillan Bloedel Ltd., 1075 W. Georgia Street, Vancouver V6E 3R9 (Office); 3738 Angus Drive, Vancouver V6J 4H5, B.C., Canada (Home). *Telephone:* 683-6711 (Office); 733-6120 (Home).

COALES, John Flavell, C.B.E., M.A., C.ENG., F.R.S.; British emeritus professor of engineering; b. 14 Sept. 1907, Birmingham; s. of John Dennis and Marion Beatrice (Flavell) Coales; m. Mary Dorothea Violet Alison 1936; two s. two d.; ed. Berkhamsted School and Sidney Sussex Coll., Cambridge; Admiralty Dept. of Scientific Research 1929-46; Research Dir. Elliott Bros. (London) Ltd. 1946-52; Asst. Dir. of Research, Eng. Dept., Cambridge Univ. 1953, Lecturer 1956, Reader 1958, Prof. 1965, now Emer.; Fellow, Clare Hall, Cambridge 1964-; Mackay Visiting Prof., Univ. of California, Berkeley 1963-; mem. Research and Devt. Board of Tube Investments Ltd. 1957-61, Eastern Electricity Board 1967-73; Pres. Int. Fed. of Automatic Control 1963-66; Chair. U.K. Automation Council 1963-66; Pres. Inst. of Electrical Engs. 1971-72; Chair. Council of Eng. Insts. 1975, now Chair. Educ., Training and Qualifications Cttee. of Council; mem. Exec. Cttee. of Nat. Physical Laboratory 1958-63, Gov. Body of Nat. Inst. of Agricultural Eng. 1970-75; Gov. Hatfield Coll. of Tech. and Hatfield Polytechnic 1952-71; Dir. Delta Materials Research Ltd. 1974-; now also Chair. Activities Cttee. of Fellowship of Eng.; Hon. Fellow, Hatfield Polytechnic 1971, Inst. of Measurement and Control 1971; Hon. Sc.D. (City) 1970; Hon. D.Tech. (Loughborough) 1977; Harold Hartley Medal 1971. *Publications:* many original papers on communications, radar, magnetic amplifiers, computers, control and systems eng., educ. and training in eng. *Leisure interests:* mountaineering, gardening, music, reading. *Address:* 4 Latham Road, Cambridge, CB2 2EQ, England. *Telephone:* 0223-63596.

COBBINA, John Henry; Ghanaian police officer; b. 29 Sept. 1919, Essikado, Sekondi; m.; one s. one d.; ed. Sekondi and Achimota Colls. and Metropolitan Police Training Centre, Hendon, England; teacher, Aggrey Coll., Sekondi 1939-42; joined W. African Frontier Forces 1942, Capt. and Co. Commdr. 1949-50; joined Ghana Police Service 1951, Asst. Supt. of Police 1951-54; rose through ranks, becoming Chief Supt. 1959; Asst. Commr. of Police and later Commr. of Police Admin. 1960-72; Insp.-Gen. of Police 1972-74, Commr. for Internal Affairs 1972-75; Grand Medal 1969. *Leisure interests:* gardening, poultry keeping. *Address:* Ministry of Internal Affairs, Accra, Ghana.

COBBOLD, 1st Baron, cr. 1960, of Knebworth; **Cameron Fromanteel Cobbold,** K.G., P.C., G.C.V.O.; British banker and Palace official; b. 14 Sept. 1904, London; s. of Col. Clement Cobbold and Stella Cameron; m. Lady Hermione Lytton 1930; two s. one d.; ed. Eton and King's Coll., Cambridge; Deputy Gov. Bank of England 1945-49, Gov. 1949-61; Lord Chamberlain 1963-71; Perm. Lord-in-Waiting to H.M. The Queen 1971; H.M. Lt. for City of London; High Sheriff County of London 1946-47; mem. H.M. Privy Council 1959; fmr. Dir. British Petroleum Co. Ltd., Guardian Royal Exchange Assurance Ltd., Hudson's Bay Co.; Chair. Italian Int. Bank, London 1972-75; Hon. LL.D. (McGill Univ.), Hon. D.Sc. (London Univ.). *Address:* Lake House, Knebworth, Herts., England. *Telephone:* 0438-81 2310.

COBURN, James; American actor; b. 31 Aug. 1928, Laurel, Nebraska; ed. Los Angeles City Coll.; studied drama with Stella Adler; m. Beverly Kelly, 1959; one s.; made professional theatre debut with Vincent Price in Billy Budd at the La Jolla Community Playhouse, Calif. *Films include:* Ride Lonesome 1959, Faces of a Fugitive 1959, The Magnificent Seven 1960, Hell is For Heroes, 1962, The Great Escape 1963, Charade 1963, The Americanization of Emily 1964, Major Dundee 1965, High Wind in Jamaica 1965, The Loved One 1965, Our Man Flint 1966, What Did You do in the War Daddy? 1966, In Like Flint 1966, The President's Analyst 1967, Duffy 1968, Candy 1968, Hard Contract 1968, A Fistful of Dynamite 1971, The Carey Treatment 1972, The Honkers 1972, Pat Garrett and Billy the Kid 1973, The Last of Sheila 1973, Harry in Your Pocket 1973, Hard Times 1976, Sky Riders 1976, Midway 1976, Cross of Iron 1977; producer, The President's Analyst 1967, Waterhole No. 3 1967; owner, Panpiper Productions, Hollywood; numerous TV appearances including The Dain Curse 1978. *Address:* c/o CMA, 8899 Beverly Boulevard, Los Angeles, Calif., U.S.A.

COCHEREAU, Pierre; French organist; b. 9th July 1924, Saint-Mandé; s. of Georges Cochereau and Anne Gros; m. Nicole Lacroix 1948; one s. one d.; ed. Paris Acad. and Paris Conservatory of Music; Dir., Conservatory of Le Mans 1951; Organist of Notre Dame, Paris 1955-; Dir. Conservatory of Music, Dancing and Drama, Nice 1960–; Concert tours throughout Europe, U.S.A., U.S.S.R., Australia, Japan and U.K.; Officer, Légion d'honneur; Chevalier des Arts et des Lettres; 50 records. *Leisure interests:* recording, organ building. *Address:* 15 bis rue des Ursins, 75004 Paris; 10 avenue Jean Lorrain, 06300 Nice, France. *Telephone:* MED-74-56 (Paris); 89-30-13 (Nice).

COCHRAN, Jacqueline; American airwoman and business executive; b. Muskogee, Florida; m. Floyd B. Odlum 1936; pilot since 1932; winner Bendix Transcontinental Air Race 1938; headed U.S. Women's Airforce Service Pilots in Second World War (Col. U.S.A.F.R.); holds numerous world air speed records; first woman to break sonic barrier 1953; Dir. Northeast Airlines; Pres. Nat. Aeronautic Assn. 1960; Pres. Int. Aeronautic Fed. 1958-; Consultant to Nat. Aeronautics and Space Admin.; Dir. Storer Broadcasting Co.; Dir. George Washington Univ.; Hon. Fellow, Soc. of Experimental Test Pilots; Hon. LL.D. (Elmira Coll., N.Y.), Hon. Sc.D. (Wisconsin Univ.), Sc.D. (Manchester Univ., N.H.); D.S.M.; Légion d'honneur; Gold Medal Int. Aeronautic Fed. 1954; Distinguished Flying Cross 1969, etc. *Publication:* The Stars at Noon 1954. *Leisure interests:* flying, golf, reading, cooking. *Address:* Cochran Odlum Ranch, Indio, Calif. 92201, U.S.A.

COCHRAN, Thad; American politician; b. 7 Dec. 1937, Pontotoc, Miss.; m. Rose Clayton; two c.; ed. Mississippi Univ. and School of Law, Univ. of Dublin, Ireland; law practice in Jackson, Miss. 1965; Pres. Young Lawyers' section of Miss. State Bar, Chair. Miss. Law Inst.; mem. U.S. House of Reps. 1973-78, mem. Public Works and Transportation Cttee. Ethics Cttee., Select Cttee. on Aging; Southern States Rep. on House Republican Policy Cttee.; Senator from Mississippi Jan. 1978-. *Address:* Senate House, Capitol Hill, Washington, D.C., U.S.A.

COCHRANE, Robert Greenhill, C.M.G., M.D., F.R.C.P., D.T.M. & H.; British consultant physician and leprologist; b. 11 Aug. 1899, Pei-Tai Ho, N. China; s. of Dr. Thomas Cochrane and Grace Hamilton Cochrane; m. 1st Ivy Gladys Nunn 1927, 2nd Martha Jeane Shaw 1968; two s. one d.; ed. Eltham Coll., Glasgow Univ. and St. Bartholomew's Hosp.; Sec. of Medical Work, Mission to Lepers (now Leprosy Mission), stationed at Purulia, Bihar, India 1924-27; Medical Supt., Leprosy Mission Hosp., Bankura, Bengal 1928-30; Medical Sec., British Empire Leprosy Relief Assn. (now LEPRA) 1930-35, 1951-53; Chief Medical Officer, Lady Willingdon Leprosy Sanatorium, Chingleput 1935-44, 1948-51; Dir. of Leprosy Campaign, Dir. of Leprosy Research, Madras State 1941-51; Dir. and Principal Prof. of Medicine and Dermatology and Dir. of Rural Medicine, Christian Medical Coll., Vellore, S. India 1944-48; Adviser in Leprosy to Ministry of Health, London 1951-65; Consultant and Lecturer in Leprosy, Hosp. for Tropical Diseases, St. Thomas's Hosp., St. John's Hosp. for Diseases of the Skin 1951-65; Visiting Medical Officer, Homes of St. Giles, E. Hanningfield 1951-65; Technical Medical Adviser, American Leprosy Missions, Inc. 1953-65; Founder and Dir., Leprosy Study Centre, London 1953-

66; Medical Supt., Leprosy Home and Hosp., Vadothorasalur, Madras State, India 1966-68; Medical Supt., Kola Ndoto Leprosarium, Shinyanga, Tanzania (Africa Inland Mission) 1968-72; Pres. Int. Leprosy Assn. 1963-68, Pres. Emer. 1968-; fmr. consultant to WHO; introduced use of D.D.S. for treatment of leprosy; integrated leprosy into gen. medicine; Kaiser-i-Hind gold medal 1946, Coronation Medal, King George VI, Damien-Dutton Award 1964; C.M.G. 1969. *Publications:* A Practical Textbook of Leprosy 1947, Leprosy, Its Challenge and Hope 1949; Editor Leprosy in Theory and Practice 1959; Biblical Leprosy, A Suggested Interpretation 1961. *Address:* 606 Swede Street, Norristown, Pa. 19401, U.S.A. *Telephone:* (215) 272-0244.

COCKBURN, Sir Robert, K.B.E., C.B., PH.D., M.SC., M.A. (CANTAB.); British civil servant; b. 31 March 1909, Portsmouth, Hants; s. of Rev. R. T. Cockburn; m. Phyllis Hoyland 1935; two d.; ed. Municipal Coll., Portsmouth, and London Univ.; taught science at West Ham Municipal Coll. 1930-37; research in communications at Royal Aircraft Establishment, Farnborough 1937-39; radar research at Telecommunications Research Establishment, Malvern 1939-45; atomic energy research at A.E.R.E., Harwell 1945-48; scientific adviser to Air Ministry 1948-53; Principal Dir. of Scientific Research (Guided Weapons and Electronics), Ministry of Supply 1954-55, Deputy Controller of Electronics 1955-56, Controller of Guided Weapons and Electronics 1956-59; Chief Scientist, Ministry of Aviation 1959-64; Dir. Royal Aircraft Establishment, Farnborough 1964-69; Chair. Council, Nat. Computing Centre 1970-77; Fellow, Churchill Coll., Cambridge 1969-76; Chair. TV Advisory Cttee. 1971-; Chair. BBC Engineering Advisory Cttee. 1973; Hon. Fellow, Royal Aeronautical Soc.; U.S. Congressional Medal for Merit. *Leisure interest:* sailing. *Address:* 21 Fitzroy Road, Fleet, Hampshire, England. *Telephone:* 02514-5518.

COCKERELL, Sir Christopher (Sydney), Kt., C.B.E., M.A., F.R.S.; British engineer; b. 4 June 1910, Cambridge; s. of Sir Sydney Cockerell and Florence Kingsford; m. Margaret E. Belsham 1937; two d.; ed. Gresham's, Holt and Peterhouse, Cambridge; radio research Cambridge 1933-35; joined Marconi's 1935, in charge Airborne Div. and Navigational Research 1946-48, research 1948-50; started boat-building business later known ■ Ripplecraft Co. Ltd. 1948, Chair. 1950-; inventor of Hovercraft 1954, formed Hovercraft Ltd. 1957; consultant to Ministry of Supply on Hovercraft Project 1957-58; consultant Hovercraft Devt. Ltd. 1958-70, Dir. 1959-66; Chair. Wavepower Ltd. 1978-; mem. Ministry of Technology's Advisory Cttee. for Hovercraft 1968-70; Pres. Int. Air Cushion Engineering Soc. 1969-71; Pres. British Hovercraft Eng. Soc. 1972-; Fellow, Royal Soc. of Arts 1960-70; Hon. Fellow, Soc. of Engineers, Manchester Univ. of Science and Technology, Swedish Soc. of Aeronautics; hon. mem. Southampton Chamber of Commerce 1963; Hon. Fellow, Downing Coll., Cambridge 1969, Fellow of the Royal Soc. 1967; Hon. Fellow, Peterhouse, Cambridge 1974; Trustee, Nat. Portrait Gallery 1967-; Hon. D.Sc. (Leicester and Heriot-Watt Univ.), Hon. D.Sc. (Royal Coll. of Art) 1968, (London Univ.) 1975; numerous medals. *Leisure interests:* fishing, gardening, antiquities. *Address:* 16 Prospect Place, Hythe, Southampton, Hants, 804 6AU, England. *Telephone:* Southampton 842931.

COCKFIELD, Baron (Life Peer), cr. 1978, of Dover in the County of Kent; **(Francis) Arthur Cockfield,** Kt., LL.B., B.SC.(ECON.); British business executive; b. 28 Sept. 1916; ed. Dover County School, London School of Economics; called to Bar, Inner Temple 1942; Inland Revenue Dept. of Civil Service 1938; Asst. Sec. Board of Inland Revenue 1945, Commr. 1951-52, also Dir. of Statistics and Intelligence to Board of Inland Revenue 1945-52; Finance Dir. Boots Pure Drug Co. Ltd. 1953-61, Man. Dir. and Chair. Exec. Man. Cttee. 1961-67; mem. Nat. Econ. Devt. Council (N.E.D.C.) 1962-64; Special Adviser on Taxation to the Chancellor of the Exchequer 1970-73; Chair. Price Comm. 1973-77; Hon. Fellow, L.S.E. 1972. *Address:* Connaught House, Mount Row, Berkeley Square, London, W.1, England.

COCKS, the Rt. Hon. Michael Francis Lovell, P.C., M.P.; British politician; b. 19 Aug. 1929; m. Janet Macfarlane 1954; two s. two d.; ed. Bristol Univ.; fmr. lecturer at Bristol Polytechnic; M.P. for Bristol South 1970-; Asst. Govt. Whip 1974-76, Parl. Sec. to Treasury and Govt. Chief Whip 1976-79, Opposition Chief Whip May 1979-; Labour. *Address:* House of Commons, Westminster, London, S.W.1, England.

CODY, H.E. Cardinal John; American ecclesiastic, b. 24 Dec. 1907, St. Louis, Missouri; s. of Thomas and Mary (Begley) Cody; ed. N. American Coll., Rome; ordained 1931; Auxiliary Bishop, Diocese of St. Louis 1947-54, Coadjutor with right of succession to the Bishop of St. Joseph, Missouri 1954, Apostolic Admin. 1955; Coadjutor to Archbishop-Bishop of Kansas City, St. Joseph Aug. 1956, Bishop 1956-61; Coadjutor with right of succession to Archdiocese of New Orleans 1961, Apostolic Admin. 1962-64; Archbishop of New Orleans 1964-65; Archbishop of Chicago 1965-; cr. Cardinal 1967; mem. Sacred Congregation for Catholic Educ., etc.; mem. Nat. Conf. of Bishops. *Address:* 1555 N. State Parkway, Chicago, Ill. 60610, U.S.A.

COETZEE, Johannes Petrus, B.SC.; South African business executive; b. 25 April 1918, Magaliesburg, Transvaal; s. of J. C. Coetzee; m. Hester E. van Niekerk 1944; three s. one d.; ed. High School, Rustenburg and Univ. of the Witwatersrand; Works Man. Amcor Works, Meyerton 1957; Gen. Man. Feralloys Ltd., Cato Ridge, Natal 1958-62; Gen. Man. Armament Board 1963-65, Man. Dir. 1965; Production Man. Amcor Group 1965-66; Asst. Gen. Man. ISCOR 1966-68, Gen. Man. 1968-71, Dir. and Gen. Man. 1971-72, Man. Dir. 1972-79. *Leisure interests:* cattle farming, golf. *Address:* 115 Drakensberg Drive, Pretoria, South Africa (Home). *Telephone:* 78-9661 (Home).

COETZER, William Bedford, B.COMM., C.A.(S.A.), F.C.I.S.; South African business executive; b. 13 Sept. 1909, Rouxville; s. of Hendrik Coetzer and Sylvia Elza Coetzer (née Blake); m. Margaret de Waal-Davies 1935; two s. three d.; ed. Grey Univ., Bloemfontein and Stellenbosch Univ.; Chair., Federale Mynbou Bpk. 1953-, Hollandstraat-Ses Beleggings (Edms.) Bpk., Sentrust Ltd.; Hon. D.Phil. (Univ. of South Africa). *Address:* 6 Hollard Street, Johannesburg; 21 Tugela Road, Emmarentia, Johannesburg, South Africa. *Telephone:* JHB. 836-1121 (Office).

COFFIN, Frank Morey; American lawyer and government official; b. 11 July 1919, Lewiston, Maine; s. of Herbert and Ruth Coffin; m. Ruth Ulrich 1942; one s. three d.; ed. Bates Coll., and Harvard Univ.; admitted to Maine Bar 1947, legal practice 1947-56; mem. U.S. House of Reps. 1957-61; Man. Dir. Devt. Loan Fund, Dept. of State 1961; Deputy Admin., Agency for Int. Devt. 1961-62; Deputy Admin. for Operations 1962-64; U.S. Rep. to Devt. Assistance Cttee., Org. for European Co-operation and Devt. (OECD), Paris 1964-; U.S. Circuit Judge, Court of Appeals for First Circuit 1965-, Chief Judge 1972-; Dir. Overseas Devt. Council; mem. American Acad. of Arts and Sciences, Int. Legal Centre. *Publication:* Witness for Aid 1964. *Leisure interests:* sculpture, painting, boating. *Address:* 156 Federal Street, Portland, Maine 04112 (Office); 1 Ocean Road, South Portland, Maine, U.S.A. (Home).

COGGAN, Most Rev. (Frederick) Donald, D.D.; British ecclesiastic; b. 9 Oct. 1909. London; s. of Cornish and Fannie Coggan; m. Jean Strain 1935; two d.; ed. Merchant Taylors' School, St. John's Coll., Cambridge and Wycliffe Hall, Oxford; Asst. Lecturer in Semitic Languages and Literature, Manchester Univ. 1931-34; Curate, St. Mary, Islington 1934-37; Prof. at Wycliffe Coll. Toronto 1937-44; Principal, London Coll. of Divinity 1944-56; Bishop of Bradford 1956-61; Archbishop of York 1961-74, of Canterbury 1974-80; Prelate Order of St. John of Jerusalem 1967-; Freedom of City of Canterbury 1976. *Publications:* A People's Heritage 1944, The Ministry of the Word 1945, The Glory of God 1950, Stewards of Grace 1958, Five Makers of the New Testament 1962, Christian Priorities 1963, The Prayers of the New Testament 1967, Sinews of Faith 1969, Word and World 1971, Convictions 1975, On Preaching 1978, The Heart of the Christian Faith 1978. *Leisure interests:* gardening, motoring, music. *Address:* Lambeth Palace, London, S.E.1; Old Palace, Canterbury, Kent, England.

COGHILL, Nevill Henry Kendal Aylmer, M.A., F.R.S.L.; British university teacher; b. 19 April 1899, Castle Townshend, Co. Cork; s. of Sir Egerton Coghill, Bart., and Hildegarde Coghill; m. Elspeth Nora Harley 1927 (dissolved 1933); one d.; ed. Haileybury Coll. and Oxford Univ.; Research Fellow, Exeter Coll., Oxford 1924; Fellow and Tutor in English Literature 1925; Fellow Royal Soc. of English Literature 1954; Merton Prof. of English Literature, Oxford 1957-66; produced A Midsummer Night's Dream (Haymarket Theatre, London) 1945, Pilgrim's Progress (Covent Garden, London) 1951; Gov. Shakespeare Memorial Theatre, Stratford 1956; has broadcast on Shakespeare, Chaucer, Langland, etc.; Pres. of the Poetry Soc. 1964-68; Pres. of the English Assn. 1970-71. *Publications:* Visions from Piers Plowman, The Poet Chaucer 1949, The Canterbury Tales (in modern English) 1951, Geoffrey Chaucer 1956, Shakespeare's Professional Skills 1964, Co-author (with Martin Starkie) Canterbury Tales (theatre) 1968, Troilus and Criseyde (in modern English); Editor: T. S. Eliot's Murder in the Cathedral 1965, The Family Reunion 1969, The Cocktail Party 1974. *Leisure interests:* pictures, music, writing. *Address:* Savran House, Aylburton, nr. Lydney, Glos., England. *Telephone:* Lydney 2240.

COHEN, Alexander H.; American theatre and television producer; b. 24 July 1920, New York; s. of Alexander H. and Laura (Tarantous) Cohen; m. 1st Jocelyn Newmark 1942 (divorced), 2nd

Hildy Parks 1956; two s. one d.; ed. New York Univ.; Producer, Broadway 1941-, London 1963-; New York productions include Anna Christie, Comedians, Ulysses in Nighttown, Good Evening, Home, Marlene Dietrich, John Gielgud's Ages of Man, Black Comedy, Victor Borge, Hamlet, Beyond the Fringe, The Devils, The School for Scandal, The Unknown Soldier and his Wife, At the Drop of a Hat, Little Murders, Maurice Chevalier, The Homecoming, Mike Nichols and Elaine May, Baker Street, I Remember Mama; London productions include Applause, The Happy Apple, Who Killed Santa Claus, Halfway Up the Tree, 1776, Plaza Suite, Mixed Doubles, The Price, Ivanov, Man and Boy, The Rivals, Come As You Are, The Doctor's Dilemma, You Never Can Tell, The Merchant of Venice; productions for television: Annual Antoinette Perry (Tony) Awards 1967-, CBS: On The Air (A Celebration of Fifty Years) 1978, The Emmy Awards 1978. *Address:* 225 West 44th Street, New York, N.Y. 10036. *Telephone:* New York 757-1200.

COHEN, Sir Edward, Kt., LL.B.; Australian lawyer and company director; b. 9 Nov. 1912, Malvern, Victoria; m. Meryl D. Fink 1939; one s.; ed. Scotch Coll., Melbourne and Ormond Coll., Univ. of Melbourne; served Australian Imperial Forces 1940-45; fmr. mem. Faculty of Law of Melbourne Univ., also of Bd. of Examiners and Council of Legal Educ.; mem. Council, Law Inst. of Victoria 1959-68, Pres. 1965-66; Chair. Pensions Cttee. of Melbourne Legacy 1959-; fmr. Partner, now Consultant, Paveys Solicitors, Melbourne; Chair. E.Z. Industries Ltd., Electrolytic Zinc Co. of Australasia Ltd., Commercial Union Assurance Co. of Australasia Ltd., Commercial Union Properties (Australia) Pty. Ltd., Emu Bay Railway Co. Ltd., CUB Fibre Containers Pty. Ltd., Carlton & United Breweries Ltd.; Dir. Associated Pulp and Paper Mills Ltd., Michaelis Bayley Ltd. and other cos. *Address:* 390 Lonsdale Street, Melbourne, Victoria 3000 (Office); 19 Russell Street, Toorak, Victoria 3142, Australia (Home).

COHEN, Morris, D.SC.; American metallurgist and materials scientist; b. 27 Nov. 1911, Chelsea, Mass.; s. of late Julius H. and Alice Cohen; m. Ruth Krentzman 1937 (deceased); one s. one d.; ed. Massachusetts Inst. of Technology; Instructor of Metallurgy M.I.T. 1936, Asst. Prof. 1937, Assoc. Prof. 1941, Prof. of Physical Metallurgy 1946, Ford Prof. of Materials Science and Eng. 1962-74, Institute Prof. 1974-; fmr. consultant to U.S. Atomic Energy Comm. and mem. of several govt. panels and advisory cttees.; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng.; Fellow, American Acad. of Arts and Sciences, New York Acad. of Sciences; Hon. mem. American Soc. for Metals (Pres. 1969), British Metals Soc., Japan Iron and Steel Inst., Japan Inst. of Metals, American Physical Soc., Indian Inst. of Metals etc.; Fellow Metallurgical Soc. of AIME, American Assen. for Advancement of Science; has delivered numerous memorial lectures including several to American Soc. for Metals, and Coleman Lecture, Franklin Inst. 1960; Hon. D. Tekn. (Royal Inst. of Technology, Stockholm) 1977; Kamani Medal, Indian Inst. of Metals 1952, Mathewson Gold Medal, AIME 1953, Clamer Medal, Franklin Inst. 1959, Gold Medal, American Soc. for Metals 1968, Gold Medal, Japan Inst. of Metals 1970, Médaille Pierre Chevenard, Soc. Française de Métallurgie 1971; Killian Faculty Achievement Award, M.I.T. 1974; Procter Prize, Research Soc. of N. america 1976; Nat. Medal of Science 1977, Albert Sauveur Achievement Award, American Soc. for Metals 1977. *Leisure interest:* art collecting. *Address:* Room 13-5046, Department of Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 02139; 491 Puritan Road, Swampscott, Mass. 01907, U.S.A. (Home). *Telephone:* 617-253-3325 (Office); 617-595-1443 (Home).

COHEN, Philip Pacy, PH.D., M.D.; American professor of physiological chemistry; b. 26 Sept. 1908, Derry, N.H.; s. of David and Ada (Cottler) Cohen; m. Rubye H. Tepper 1935; three s. one d.; ed. Tufts Coll. and Univ. of Wisconsin; Prof. and Chair., Dept. of Physiological Chem., Univ. of Wisconsin 1948-75, H. C. Bradley Prof. of Physiological Chem. 1968-; Visiting Prof. Univ. of Calif. at Los Angeles 1976; Chair. Cttee. on Growth, Nat. Research Council 1954-56; mem. Bd. of Scientific Counsellors, Nat. Cancer Inst. 1957-59, Chair. 1959-61; mem. Nat. Advisory Cancer Council, Nat. Insts. of Health 1963-67; mem. Advisory Cttee. to Dir. Nat. Insts. of Health 1966-70; mem. Advisory Cttee. for Medical Research, Pan American Health Org. 1967-75; mem. Advisory Cttee. for Biology and Medicine, U.S. Atomic Energy Comm. 1963-71, Chair. 1969-70; mem. Nat. Advisory Arthritis and Metabolic Diseases Council, Nat. Insts. of Health 1970-74; mem. Nat. Comm. on Research 1978-; mem. U.S. Nat. Acad. of Sciences, American Chem. Soc., American Soc. of Biological Chemists, Biochemical Soc. (U.K.); hon. mem. Sociedad Argentina de Investigación Bioquímica, Nat. Acad. of Medicine, Mexico, Japanese Biochemical Soc., Harvey Soc.; Fellow, A.A.A.S. *Publications:* over 200 papers in fields of intermediary nitrogen metabolism, enzymology, differentiation and development, comparative biochemistry. *Address:* Department of Physiological Chemistry, 694 Medical Sciences Bldg., University of Wisconsin. Madison, Wis. 53706; 1117 Oak Way, Madison, Wis. 53706, U.S.A. (Home). *Telephone:* 608-262-0299/1347 (Office); 608-233-1883 (Home).

COHEN, Ruth Louisa, C.B.E., M.A.; British university official; b. 10 Nov. 1906, Bushey Heath; d. of Walter Cohen and Lucy Cobb; ed. Newnham Coll., Cambridge; Commonwealth Fund Fellow, Stanford and Cornell Univs., U.S.A. 1930-32; Research Officer, Agricultural Research Inst., Oxford 1933-39; with Ministry of Food 1939-42, Bd. of Trade 1942-45; Fellow, Newnham Coll., Cambridge 1939-54, Principal 1954-72, Univ. Lecturer in Econs. 1945-74; lay mem. Gen. Medical Council 1961-76; City Councillor, Cambridge 1973-. *Publications:* History of Milk Prices 1936, England. *Telephone:* Cambridge 62699.

COHEN, Seymour Stanley, B.S., PH.D.; American biochemist; b. 30 April 1917, New York City; s. of Herman Cohen and Lena Tanz; m. Elaine Pear 1940; one s. one d.; ed. Coll. of City of New York and Columbia Univ.; NRC Fellow 1941-42 (to work with W. Stanley at Rockefeller Inst.), Research Assoc., Johnson Foundation, Univ. of Pa. 1943-45; Instructor in Dept. of Pediatrics, Univ. of Pa. 1945-50, Assoc. Prof. of Biochemistry and Pediatrics 1950-54, Prof. 1954-57, Charles Hayden American Cancer Soc. Prof. of Biochemistry 1957, Hartzell Prof. and Chair. Dept. of Therapeutic Research, School of Medicine, Univ. of Pa. 1963-71; American Cancer Soc. Prof. of Microbiology, Univ. of Colorado School of Medicine 1971-76; American Cancer Soc. Prof. of Pharmacological Sciences, New York State Univ. 1976-; Fellow, John Simon Guggenheim Foundation (to work with A. Lwoff and J. Monod at Pasteur Inst., Paris) 1947-48; Lalor Fellow, Marine Biology Lab., Woods Hole, Mass. 1951-52; Visiting Investigator, Virus Lab., Univ. of Calif. 1955, Inst. de Radium, Paris 1967; Instructor in Physiology, Marine Biology Lab. 1968-; mem. Nat. Acad. of Sciences, Serbian Acad. of Science and Arts; mem. American Acad. of Arts and Sciences; Visiting Prof. Hebrew Univ. (Jerusalem) 1969-74, Collège de France 1970; Consultant for Science, American Cancer Soc. 1973-76; mem. Inst. of Medicine 1973-; Fogarty Scholar, Nat. Insts. of Health 1973-74; Visiting Smithsonian Scholar 1973-; Dr. h.c. (Univ. of Louvain, Belgium) 1972; Eli Lilly Award of American Soc. of Bacteriology 1951, Mead Johnson Award, American Acad. of Pediatrics 1952, Newcomb Cleveland Award (AAAS) 1955, Medal, Soc. Chimie Biologique 1964, Borden Award, Assen. American Medical Colls., Passano Award 1974; Karl August Forster Prize of German Acad. of Science and Letters 1978, Townsend Harris Medal of Coll. of City of New York Alumni Assen. 1978. *Publications:* Virus-Induced Enzymes (The Jesup Lectures) 1968, Introduction to the Polyamines 1971, about 200 papers. *Leisure interests:* tennis, history., *Address:* 106 Quaker Path, Stonybrook, N.Y. 11790, U.S.A. *Telephone:* (516) 689-9216 (Home); (516) 444-2565 (Office).

COHEN, Wilbur Joseph, PH.B., L.H.D.; American government official and educator; b. 10 June 1913, Milwaukee, Wis.; s. of Aaron Cohen and Bessie Rubenstein; m. Eloise Bittel 1938; three s.; ed. Univ. of Wisconsin; with Cttee. Econ. Security 1934-35; Social Security Admin. 1936-56; Prof. Public Welfare Admin., Univ. of Michigan 1956-; Asst. Sec. Dept. of Health, Educ. and Welfare 1961-65, Under-Sec. 1965-68, Sec. 1968-69; Dean School of Educ., Univ. of Mich. 1969-78; Prof. of Educ., Univ. of Mich. 1969-; mem. Bd. of Govs., Haifa Univ. 1971-; Chair. President's Task Force on Health and Social Security 1960; Pres. American Public Welfare Assen. 1975-76; Chair. Nat. Comm. on Unemployment Compensation 1978-; mem. American Econ. Assen., Industrial Relations Research Assen., American Public Welfare Assen., American Public Health Assen., Nat. Comm. on Social Security and numerous cttees.; Distinguished Service Award of Dept. of Health, Educ. and Welfare 1956, Group Health Assen. 1956; Florina Lasker Award 1961; Blanche Ittleson Award 1962; Nat. Conf. Social Welfare, Distinguished Service Award 1957, Bronfman Public Health Prize 1957, Rockefeller Public Service Award 1967, Arthur J. Altmeyer Award, Dept. of Health, Educ. and Welfare 1972. *Publications:* Retirement Policies in Social Security 1957, Social Security: Programs, Problems and Policies (with W. Haber) 1960, Co-author Income and Welfare in the United States 1962, numerous articles. *Leisure interest:* floral arrangements. *Address:* School of Education, University of Michigan, Ann Arbor, Mich.; 620 Oxford Road, Ann Arbor, Mich. 48104; 9819 Capitol View Avenue, Silver Spring, Md. 20910, U.S.A. (Homes). *Telephone:* 313-764-8412 (Office); 313-663-6931, 301-565-0731 (Home).

COHN, Haim; Israeli lawyer; b. 11 March 1911, Lübeck, Germany; s. of Zeev Cohn and Miriam Cohn (née Carlebach); m. 1st Else Benjamin 1933, 2nd Michal Smoira; one s. one d.; ed. Univs. of Munich, Hamburg and Frankfurt-on-Main, Germany, Hebrew Univ. of Jerusalem and Govt. Law School, Jerusalem; admitted to Bar of Palestine 1937; Sec. Legal Council Jewish Agency for Palestine, Jerusalem 1947; State Attorney, Ministry of Justice, Hakirya 1948, Dir.-Gen. 1949; Attorney-Gen., Govt. of Israel 1950; Minister of Justice and Acting Attorney-Gen. 1952; Attorney-Gen., later Justice, Supreme Court of Israel 1960-; mem. Perm. Court of Arbitration, The Hague 1962-, UN Comm. on Human Rights 1957-59, 1965-67; Deputy Chair. Council of Higher Educ., Israel 1958-71; mem. Bd. of Govs., Int. Inst. of Human Rights, Strasbourg; Chair. Exec. Council Hebrew Univ. of Jerusalem; Visiting Prof. of Law, Univ. of Tel-Aviv; Visiting Prof. of Jurisprudence, Hebrew Univ. of Jerusalem; mem. Int. Comm. of Jurists, Pres. Int. Assn. of Jewish Lawyers and Jurists. *Publications:* The Foreign Laws of Marriage and Divorce (English) 1937, Glaube und Glaubensfreiheit (German) 1967, The Trial and Death of Jesus (Hebrew) 1968, The Trial and Death of Jesus (English) 1971, Jewish Law in Ancient and Modern Israel (English) 1972. *Address:* 36 Tchernihovsky Street, Jerusalem, Israel. *Telephone:* (02) 3-9973.

COHN, Mildred, M.A., PH.D.; American professor of biochemistry and biophysics; b. 12 July 1913, New York City; d. of Isidore M. Cohn and Bertha Klein; m. Henry Primakoff 1938; one s. two d.; ed. Hunter Coll. and Columbia Univ.; Cornell Univ. Medical Coll., New York 1938-46; Washington Univ. Medical School, St. Louis, Mo. 1946-60; Prof. of Biophysics and Biophysical Chem., Univ. of Pa. School of Medicine 1961-75, Prof. of Biochemistry and Biophysics 1975-; Benjamin Rush Prof. of Physiological Chem. 1978–; Career Investigator, American Heart Assn. 1964-78; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences, American Philosophical Soc.; Hon. Sc.D. (Women's Medical Coll. of Pennsylvania) 1966, (Radcliffe Coll.) 1978; Cresson Medal, Franklin Inst., Garvan Medal, American Chem. Soc. *Publications:* articles in professional journals, etc. *Leisure interest:* hiking. *Address:* Department of Biochemistry and Biophysics, University of Pennsylvania School of Medicine/G4, Philadelphia, Pa. 19104; 747 Clarendon Road, Narberth, Pa. 19104, U.S.A. (Home). *Telephone:* (215) 243-8794 (Office); (215) MO7-4674 (Home).

COÏDAN, Paul, LIC. EN DROIT; French civil servant; b. 3 Aug. 1911, Tripoli, Lebanon; s. of Michel and Marie Henriette Coïdan (née Pierson); m. Evelyn C. Sandison 1938; two s. one d.; ed. Univ. of Paris; joined Cen. Admin. of Finance 1932, with Budget Office, then Senate Finance Comm.; Head, Office of Econ. Affairs 1944; with UN 1946-, Head Budget Div. 1949, Head Financial Services, Geneva 1955, Dir. Internal Audit 1960, Dir. World Food Programme 1963; Dir. External Relations, UNCTAD 1965; Dir. Budget, UN 1970; Asst. Dir.-Gen. UN, Geneva 1973-77. *Address:* La Tuilière, 1249 Dardagny/Geneva, Switzerland.

COING, Helmut, DR. JUR.; German jurist; b. 28 Feb. 1912; ed. Hanover, Lille, Kiel, Munich and Göttingen. Prof. of Jurisprudence, Goethe Univ., Frankfurt (Main) 1940, Ord. Prof. 1948, Faculty Dean 1950-51, Univ. Rector 1955-57; Pres. West German Conf. of Rectors 1956-57, Wissenschaftsrat 1958-61; Chair. Wissenschaftlicher Beirat, F. Thyssen-Stiftung 1961-; Dir. Max Planck Inst. for History of European Law 1964-; Vice-Pres. Max Planck Gesellschaft zur Förderung der Wissenschaften e.V., Munich; mem. Bayerische Akad. der Wissenschaften, Accademia delle Scienze dell'Istituto di Bologna 1965: Commendatore Ordine al Merito (Italy); Stern zum Grossen Verdienstkreuz des Verdienstordens der Bundesrepublik Deutschland, Officier de la Légion d'honneur (France), Orden Pour le Mérite für Wissenschaft und Künste 1973, etc.; Dr. Iur. h.c. Lyon, Montpellier, Vienna, Aberdeen, Brussels and Uppsala. *Publications:* Die Rezeption des Römischen Rechts in Frankfurt am Main 1939, Die obersten Grundsätze des Rechts 1947, Grundzüge der Rechtsphilosophie 1950, 1969, Lehrbuch des Erbrechts 1953, Staudinger-Kommentar zum Allgemeinen Teil des BGB 1957, Römisches Recht in Deutschland (contribution to Ius Romanum Medii Aevi) 1964, Epochen d. Rechtsgeschichte in Deutschland 1967, 1971, Rechtsformen der privaten Vermögensverwaltung insbesondere durch Banken in U.S.A. und Deutschland 1967, Die Treuhandkraft privaten Rechtsgeschäfts 1973, Grundzüge der Rechtsphilosophie 1976; Editor Handbuch der Quellen und Literatur der neueren europäischen Privatrechtsgeschichte 1973. *Address:* Holzhecke 14, 6 Frankfurt-am-Main, Federal Republic of Germany.

COINTAT, Michel; French agronomist and politician; b. 13 April 1921, Paris; s. of Lucien Cointat and Marie-Louise Adam; m. Simone Dubois 1942; two s.; ed. Ecole Nat. des Eaux et Forêts; Insp. of water and forests, Uzès, Gard 1943-49; Insp. forests of Haute-Marne 1950-58; Dir. Gen. Soc. for Devt. of waste ground and scrub lands of East Chaumont 1958-61, Pres. 1961-71; Dir. du Cabinet, Ministry of Agriculture 1961-62, Dir. Gen. of Production and Supply 1962-67; Pres. Special Agricultural Cttee. to EEC 1965; Minister of Agriculture 1971-72; Deputy Rassemblement pour la République (fmrly. Union Démocratique pour la République) for Ille-et-Vilaine 1967-; mem. European Parl. 1968-71, 1974-; Mayor of Fougères 1971-; mem. Nat. Assembly; Pres. Financial Comm. in Regional Council of Brittany; Pres. Special Comm. to examine proposed land law; Dir. Editions Ufap 1975-; mem. various local socs.; Chevalier, Légion d'honneur; Officier de l'Ordre national du Mérite; Commandeur du Mérite agricole; Officier des Palmes académiques; Chevalier de L'Economie nationale; Grand Officier du Mérite de l'Allemagne Fédérale; Grand Officier de l'Ordre de Victoria; Commandeur du Mérite Italien; Grand Officier de l'Ordre de la Haute-Volta. *Publications:* about 500 articles on agriculture, forestry, fishing and related subjects; collections of poems: Souvenirs du temps perdu 1957, Poèmes à Clio 1965, Les heures orangées 1974. *Address:* Assemblée Nationale, 75007 Paris; 89 Faubourg St. Denis, 75010 Paris, France. *Telephone:* 770-58-27.

COKE, Gerald Edward, C.B.E.; British merchant banker; b. 25 Oct. 1907, London; s. of Hon. Sir John Coke, K.C.V.O., and Hon. Mrs. Coke; m. Patricia Cadogan 1939; three s. (one s. deceased) one d.; ed. Eton and New Coll., Oxford; Lieut.-Col., Second World War; Chair. Rio Tinto Co. Ltd. 1956-62; Deputy Chair. Rio Tinto-Zinc Corpn. 1962-66, Dir. 1947-75; Deputy Chair. Mercury Securities Ltd. 1964-70; fmr. Dir. S. G. Warburg and Co. Ltd., U.K. Provident Inst. and other companies; Treas. Bridewell Royal Hospital (King Edward's School), Witley 1946-72; Chair. Glyndebourne Arts Trust 1955-75; Gov. Royal Acad. of Music 1957-73; Dir. Royal Opera House, Covent Garden 1959-64; Gov. of BBC 1961-66; Hon. F.R.A.M.; D.L. (Hants) 1974. *Address:* Jenkyn Place, Bentley, Hants., England.

COLBERT, Claudette (as Lily Claudette Chauchoin); American actress; b. 13 Sept. 1905, Paris, France; d. of Georges and Jeanne (née Loew) Chauchoin; m. 1st Norman Foster 1928 (divorced 1934); 2nd Joel Pressman, 1935; made theatre début in The Wild Wescotts 1923; also appeared in We've Got to Have Money 1923, High Stakes 1924, Ginette in A Kiss in the Taxi, 1925; on Broadway in Fast Life 1928, Dynamo, See Naples and Die 1928; made London début as Lou in The Barker, 1928; also on Broadway in Janus 1956, Julio, Jake and Uncle Joe 1962, The Irregular Verb to Love 1963, The Kingfisher 1978; *Films include:* For the Love of Mike 1928, The Hole in the Wall 1929, The Lady Lies 1929, The Big Pond 1930, Young Man of Manhattan 1930, The Smiling Lieutenant 1931, Secrets of a Secretary 1931, His Woman 1931, Man From Yesterday 1932, The Sign of the Cross 1932, Cleopatra 1933, Tonight Is Ours 1933, I Cover the Waterfront 1933, Three Cornered Moon 1933, The Torch Singer 1933, Four Frightened People 1934, It Happened One Night 1934, Imitation of Life 1934, She Married Her Boss 1935, The Bride Comes Home 1935, I Met Him In Paris 1937, Tovarich 1937, Midnight 1939, It's a Wonderful World 1939, Drums Along the Mohawk 1939, Boom Town 1940, Arise my Love 1940, Skylark 1941, The Palm Beach Story 1942, So Proudly We Hail 1943, Since you Went Away 1944, Guest Wife 1945, The Egg and I 1947, Sleep My Love 1948, Bride For Sale 1949, Three Came Home 1950, Thunder on the Hill 1951, Love and the French Woman 1954, Texas Lady 1955, Parrish 1960; First appeared on television in the 1950's in such productions as Blithe Spirit, The Guardsman, One Coat of White; also hostess for the monthly documentary series Women 1959-60; Academy Award for Best Actress for It Happened One Night. *Address:* Bellerive, St Peter, Barbados, West Indies.

COLBERT, Edwin Harris, A.M., D.SC., PH.D.; American vertebrate palaeontologist; b. 25 Sept. 1905, Clarinda, Iowa; s. of George H. and Mary A. Colbert; m. Margaret Matthew 1933; five s.; ed. Univ. of Nebraska and Columbia Univ.; Student Asst. Univ. of Nebraska 1926-29; Univ. Fellow Columbia Univ. 1929-30; Research Asst. American Museum of Natural History 1930-32, Asst. Curator 1933-42, Curator and Chair. Dept. of Amphibians and Reptiles 1944-45, Chair. Dept. of Geology and Palaeontology 1958-60; Dept. of Vertebrate Palaeontology 1960-66, Curator 1966-70, Curator Emer. 1970-; Prof. Vertebrate Palaeontology, Columbia Univ. 1945-69, Prof. Emer. 1969-; Assoc. Curator, Acad. of Natural Sciences of Philadelphia 1937-48; Research Assoc., Museum of N. Ariz. 1954-68, Curator of Vertebrate Palaeontology 1969-; mem. Nat. Acad. of Sciences; Pres. Soc. of Vertebrate Palaeontology 1946-47, Soc. for Study of Evolution 1958; Vice-Pres. Palaeontological Soc. 1963-; Daniel Giraud Elliot Medal (N.A.S.), American Museum of Nat. History Medal 1970. *Publications:* The Dinosaur Book 1951, Evolution of the Vertebrates 1955, 1969, Millions of Years Ago: Prehistoric Life in North America 1958, Dinosaurs 1961, Stratigraphy

and Life History (with Marshall Kay) 1965, The Age of Reptiles 1965, Men and Dinosaurs 1968, Wandering Lands and Animals 1973, The Year of the Dinosaur 1977, and over 300 papers, etc. *Leisure interests:* history, travel. *Address:* The Museum of Northern Arizona, Flagstaff, Arizona 86001, U.S.A. *Telephone:* 602-774-6265.

COLBERT, Lester Lum, B.B.A., LL.B.; American automobile manufacturer; b. 13 June 1905; ed. Texas and Harvard Univs.; cotton buyer, Texas 1921-29; law practice with Larkin, Rathbone and Perry (New York) 1929-33; joined Chrysler Corpn. 1933; Resident Attorney 1933-36; Vice-Pres. Dodge Div. 1936-46; Gen. Man. Dodge Chicago plant (aircraft engines) 1943-46; Pres. Dodge Div. 1946-51; Vice-Pres. Chrysler Corpn. 1949-50, Dir. 1949-61, Pres. 1950-61, Chair. of Bd. 1960-61; Dir. Devt. Bd., Univ. of Tex. 1958–; Trustee Hanover Bank and Automotive Safety Foundation 1955-61; mem. Automobile Mfrs.' Assn. (Pres. 1958-61); mem. American Bar Assn.; mem. Nat. Industrial Conf. Bd.; Hon. LL.D. Bethany Coll.; Chevalier de la Légion d'honneur; Distinguished Alumnus, Univ. of Tex., Austin 1977. *Address:* Wabeek Building, Birmingham, Mich. 48011 (Office); 3401 Gulf Shore Boulevard N., Naples, Fla. 33940, U.S.A. (Home).

COLBY, William Egan, B.A., LL.B.; American lawyer and government official; b. 4 Jan. 1920, St. Paul, Minn.; s. of Elbridge and Margaret Colby (née Egan); m. Barbara Heinzen 1945; three s. one d.; ed. Princeton and Columbia Univs.; served to rank of Maj., U.S. Army 1941-45; admitted to N.Y. State Bar 1947, District of Colombia Bar 1976; Attorney Donovan, Leisure, Newton & Irvine 1947-49; Attorney Nat. Labor Relations Bd. 1949-50; Attaché, American Embassy, Stockholm 1951-53, Rome 1953-58, First Sec., Saigon 1959-62; Head, Far East Div., Cen. Intelligence Agency 1962-67; Amb., Dir. Civil Operations and Rural Devt. Support, Saigon 1968-71; Exec. Dir. CIA 1972-73, Dir. Sept. 1973-76; Silver Star Nat. Security Medal, St. Olav Medal (Norway), Croix de guerre (France), Dept. of State Distinguished Honor Award, Grand Officer, Nat. Order of Viet-Nam. *Publication:* Honorable Men—My Life in the CIA 1978. *Address:* Colby, Miller & Hanes, 1625 I St., N.W., Washington, D.C. 20006, U.S.A. *Telephone:* (202) 857-0571.

COLDSTREAM, Sir William Menzies, Kt., C.B.E., D.LITT.; British painter and university professor; b. 28 Feb. 1908, Belford, Northumberland; s. of George Probyn Coldstream and Lillian Mercer Tod; m. 1st Nancy Culliford Sharp 1931 (dissolved 1942), two d.; m. 2nd Monica H. Hoyer 1961, [illegible] s. two d.; ed. privately and Slade School of Fine Art, Univ. Coll., London; Slade Prof., Slade School of Fine Art, Univ. Coll. London 1949-75; Trustee Nat. Gallery 1948-55, 1956-63, Tate Gallery 1949-55, 1956-63; Chair. Art Panel, Arts Council 1953-62, Vice-Chair. Arts Council of Great Britain 1962-69; Dir. Royal Opera House, Covent Garden 1957-62; Chair. Nat. Advisory Council on Art Educ. 1958-72, British Film Inst. 1964-71; Hon. D.Litt. (Nottingham and Birmingham). *Address:* Slade School of Fine Art, University College London, Gower Street, London, W.C.1, England. *Telephone:* 01-387 7050.

COLE, Baron (Life Peer) cr. 1965, of Blackfriars; **George James Cole,** G.B.E.; British businessman; b. 3 Feb. 1906, Singapore; s. of James Cole and Alice Wheeler; m. Ruth Harpham 1940; [illegible] s. [illegible] d.; ed. Raffles Inst., Singapore; joined Niger Co. Ltd. (subsidiary of Lever Bros. Ltd., later merged into United Africa Co. Ltd.) 1923; various posts in London and Africa, Controller for British West Africa 1939; Dir. United Africa Co. Ltd. 1945-63, Joint Man. Dir. 1952-55; Dir. Taylor Woodrow (West Africa) Ltd. 1947-55; Dir. Palm Line Ltd. 1949-55; Chair. 1952-55; Dir. Unilever Ltd. 1948-, Vice-Chair. 1956-60, Chair. 1960-70; Chair. Rolls-Royce (1971) Ltd. 1971-72; Dir. Unilever N.V. 1948-, Vice-Chair. 1960-70; Dir. Finance Corpn. for Industry Ltd. 1957-73; Dir. Shell Transport and Trading Co. 1971-; Chair. The Leverhulme Trust Fund, Trustee of the Civic Trust; Deputy Chair. Bd. of Govs., London Graduate School of Business Studies 1963-70; Chair. Govt. Advisory Cttee. on the Appointment of Advertising Agents 1960-70; Vice-Pres. Royal African Soc., The Luso-Brazilian Council, The Hispanic Council, The Inc. Liverpool School of Tropical Medicine; Gov. Nat. Inst. of Econ. and Social Research; mem. of Council of Royal Inst. of Int. Affairs. *Address:* 50 Victoria Road, London, W.8, England. *Telephone:* 01-937 9085.

COLE, Alexander Colin, M.V.O., T.D., F.S.A., F.H.S.; British Garter King of Arms; s. of Capt. Edward Harold and Blanche Ruby Lavinia (Wallis) Cole; m. Valerie Card 1944; four s. three d.; ed. Dulwich Coll. and Brasenose Coll. Oxford; Capt., Coldstream Guards 1939-45; rank of Major, Artillery Co. (TA); Lieut.-Col. Queen's Regt. (TA) RARO 1973; Fitzalan Pursuivant of Arms Extraordinary 1953; Portcullis Pursuivant of Arms 1957; Windsor Herald of Arms 1966-78, Garter Principal King of Arms 1978-; [illegible] Court of Common Council, City of London 1964-, Sheriff of City of London 1976-77; Master, Scrivener's Co. of London 1978-79; mem. Int. Acad. of Heraldry. *Publications:* numerous articles; illustrator: Visitation of London 1568, Visitation of Wiltshire 1623. *Leisure interests:* architecture, wine-tasting, archaeology. *Address:* The College of Arms, Queen Victoria Street, London E.C.4, England.

COLE, Sir David Lee, K.C.M.G., M.C.; British diplomatist; b. 31 Aug. 1920, Newmarket, Suffolk; s. of Brig. and Mrs D. H. Cole; [illegible] Dorothy Patton 1945; one s.; ed. Cheltenham Coll., and Sidney Sussex Coll., Cambridge; Royal Inniskilling Fusiliers, Second World War; Dominions Office 1947; U.K. Del. to UN, New York 1948-51; First Sec. British High Comm. New Delhi 1953-56, Private Sec. to Sec. of State for Commonwealth Relations 1956-60; Head, Personnel Dept., Commonwealth Relations Office 1961-63; Dep. High Commr. in Ghana 1963-64, Acting High Commr. 1963; High Commr. in Malawi 1964-67; Minister (Political), High Comm., New Delhi, 1967-70; Asst. Under-Sec. of State, Foreign and Commonwealth Office 1970-73; Amb. to Thailand 1973-78. *Leisure interest:* watercolour painting. *Address:* c/o Foreign and Commonwealth Office, London, S.W.1, England.

COLE, Kenneth S(tewart), A.B., PH.D., SC.D., M.D.; American biophysicist; b. 10 July 1900, Ithaca, N.Y.; s. of Charles Nelson Cole and Mabel Stewart Cole; m. Elizabeth Evans Roberts 1932 (deceased); one s. one d.; ed. Oberlin Coll. and Cornell Univ.; Asst. and Assoc. Prof. of Physiology, Coll. of Physicians and Surgeons, Columbia Univ. 1929-46; Principal Biophysicist, Metallurgical Lab., Univ. of Chicago 1942-46; Prof. of Biophysics and Physiology, Univ. of Chicago 1946-49; Dir. Naval Medical Research Inst. 1949-54; Chief, Lab. of Biophysics, Nat. Inst. of Neurological Diseases and Blindness, Nat. Insts. of Health 1954-66, Senior Research Biophysicist 1966-77, Emer. 1978-; Prof. of Biophysics, Univ. of Calif. Berkeley 1965-77; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Foreign mem. Royal Soc., London; Order of Southern Cross, Brazil 1966; Nat. Medal of Science, U.S.A. 1967. *Publication:* Membranes, Ions and Impulses 1968. *Leisure interests:* sailing, music. *Address:* 2404 Loring Street, San Diego, California 92109, U.S.A. *Telephone:* 714-270-6984.

COLE, Dame Margaret Isabel, D.B.E.; British historian and writer; b. 6 May 1893, Cambridge; d. of Prof. J. P. Postgate and Edith Allen; m. G. D. H. Cole 1918 (deceased); one s. two d.; ed. Roedean School and Girton Coll., Cambridge; Classical Mistress St. Paul's Girls' School London 1914-17; Asst. Sec. Labour Research Dept. 1917-26; Tutorial Class Tutor Univ. of London and of Cambridge 1925-46; Hon. Sec. New Fabian Research Bureau 1935-39; Hon. Sec. Fabian Society 1935-53, Vice-Chair. 1954-55, Chair. 1955-56, Pres. 1962-; Alderman, London County Council 1952-65, Chair. Further Educ. Cttee. 1950-59, 1960-65, Vice-Chair. 1959-60, 1964-67; Chair. Battersea Coll. of Educ. 1962-67; mem. Inner London Educ. Authority 1964-67; Chair. Geffrye Museum 1952-67; Chair. Sidney Webb Coll. 1961-72, Vice-Chair. 1972-75. *Publications:* The New Economic Revolution, Books and the People, Women of To-Day, Marriage Past and Present, Education for Democracy, Evacuation Survey (with R. Padley), Beatrice Webb, Makers of the Labour Movement, Growing up into Revolution, Robert Owen, Servant of the County, Story of Fabian Socialism, Life of G. D. H. Cole 1971; Editor: Democratic Sweden, Our Soviet Ally, Twelve Studies in Soviet Russia, The Road to Success, The Webbs and their Work, Our Partnership, Beatrice Webb's Diaries 1912–24 and 1924–32; many detective novels, books and pamphlets on social subjects jointly with the late G. D. H. Cole, contributor to periodicals and collective works. *Leisure interests:* reading, art galleries. *Address:* 4 Ashdown, Clivedon Court, Clevelands, London, W13 8DR, England. *Telephone:* 01-997 8114.

COLE, Sterling, B.A., LL.B.; American lawyer and public servant; b. 18 April 1904, Painted Post, N.Y.; s. of Ernest and Minnie (Pierce) Cole; m. Mary Elizabeth Thomas 1929; three s.; ed. Colgate Univ. and Albany Law School, Union Univ.; practised law in Bath, N.Y. 1929-34; mem. U.S. House of Reps. 1934-57, Chair. Joint Cttee. on Atomic Energy 1953-54, and mem. of several other House Cttees.; Dir.-Gen. Int. Atomic Energy Agency, Vienna 1957-61; mem. Washington Inst. of Foreign Affairs; Advisory Council for Center for Int. Studies, Graz, Austria; private legal practice, Washington 1961-; Fed. Rep. [illegible] the Southern Inter-state Nuclear Bd.; mem. American, Fed., State of Va. and District of Columbia Bar Asscns.; Hon. LL.D. (Colgate Univ.), Hon. D.Sc. (Union Coll.), Hon. LL.D. (Elmira Coll.); Order of Merit (Italy), Great Golden Decoration of Honour for Merits (Austria); Republican. *Address:* Cole & Cole, 919 18th Street, N.W., Washington, D.C., U.S.A. *Telephone:* 452-0166.

COLEMAN, James Samuel, PH.D.; American sociologist; b. 12 May 1926, Bedford, Ind.; s. of late James F. Coleman and of Maurine L. Coleman; m. 1st Lucille Richey 1949 (divorced 1973), 2nd Zdzislawa Walaszek 1973; three s.; ed. Purdue and Columbia Univs.; Research Assoc., Bureau of Applied Social Research, Columbia Univ. 1953-55; Fellow, Center for Advanced Study in the Behavioural Sciences 1955-56; Asst. Prof., Dept. of Sociology, Univ. of Chicago 1956-59; Assoc. Prof., Dept. of Social Relations, Johns Hopkins Univ. 1959, Prof. of Social Relations 1961-73; Prof. of Sociology, Univ. of Chicago 1973-; mem. President's Science Advisory Cttee. 1970-73; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences, Nat. Acad. of Educ., American Philosophical Soc.; Guggenheim Fellow 1966; Hon. LL.D. (Purdue Univ.). *Publications:* Union Democracy (co-author) 1956, The Adolescent Society 1961, Introduction to Mathematical Sociology 1964, Equality of Educational Opportunity (co-author) 1966, Resources for Social Change: Race in the United States 1971, The Mathematics of Collective Action 1973, Power and the Structure of Society 1974. *Address:* Department of Sociology, University of Chicago, Chicago, Ill. 60637; 5625 Woodlawn Avenue, Chicago, Ill. 60637, U.S.A. (Home). *Telephone:* 312-753-2363 (Office); 312-241-7461 (Home).

COLEMAN, S. Othello; Liberian international bank official; b. 12 Feb. 1928, Monrovia, Liberia; m.; four c.; ed. Liberia Coll., American Int. Coll., Springfield, Mass.; self-employed 1954-60; Asst. Research Officer, Bureau of Econ. Research, then Research Officer 1960-61; Asst. Dir. of Econ. Research and Planning in charge of Bureau of Plans, Preparation and Co-ordination, Nat. Planning Agency 1962-63; Dir. of Projects Preparation, Review, Evaluation and Aid Co-ordination, Nat. Planning Agency 1964; Alt. Dir., Int. Bank for Reconstruction and Devt., Int. Finance Corpn., and Int. Devt. Assn. 1964-66, Exec. Dir. Nov. 1966-70; Amb. to European Communities 1974-. *Address:* 1640 Rhode-St.-Genèse, 18 avenue des Touristes, Brussels, Belgium.

COLEMAN, William Thaddeus, Jr.; American lawyer and government official; b. 7 July 1920, Philadelphia; ed. Univ. of Pennsylvania, Harvard Law School; Law Sec. to Judge Herbert Goodrich, U.S. Court of Appeals, Third Circuit 1947; Law Clerk, U.S. Supreme Court 1948; Assoc. Paul, Weiss, Rifkind, Wharton & Garrison, law firm 1949-52; Assoc. Dilworth, Paxson, Kalish, Levy & Coleman 1952, Partner 1956-75; mem. President's Cttee. on Govt. Employment Policy 1959-61; Consultant to U.S. Arms Control and Disarmament Agency 1963-75; mem. Nat. Comm on Productivity 1971-72; U.S. Sec. for Transportation 1975-77; Sr. Partner O'Melveny & Myers, Washington 1977-; Dir. Pan-American Airways Inc., Penn Mutual Life Insurance Co., First Pa. Corpn.; mem. Bd. of Govs., American Stock Exchange; Trustee, Rand Corpn., Brookings Inst. *Address:* O'Melveny & Myers, 1800 M Street, N.W., Washington, D.C. 20036, U.S.A.

COLINA RIQUELME, Rafael de la; Mexican diplomatist; b. 20 Sept. 1898, Tulancingo; s. of the late Prof. Manuel and Mrs. de la Colina; m. Amanda Steinmeyer 1944; three c.; Chancellor, Consular Service of Mexico, Philadelphia, Pa. 1918-22; various diplomatic posts rising to Amb. to U.S.A. 1949-53; Perm. Rep. to UN 1953-59; Amb. to Canada 1959-62, to Japan 1962-64; Perm. Rep. to OAS 1965-; mem. INTELSAT Arbitration Panel 1971; several foreign decorations. *Address:* Secretaria de Relaciones Exteriores, Avenida Ricardo Flores Magón 1, Tlatelolco, D.F., Mexico.

COLLADO, Emilio Gabriel, S.B., A.M., PH.D.; American company executive; b. 20 Dec. 1910, Cranford, N.J. s. of Emilio Gabriel Collado and Carrie (Hansee) Collado; m. 1st Janet Gilbert 1932, one s. one d.; m. 2nd Maria Elvira Tanco 1972; ed. Phillips Acad., Andover, Massachusetts Inst. of Technology and Harvard. U.S.; U.S. Treasury Dept. 1934-36; Fed. Reserve Bank of New York 1936-38; U.S. State Dept. 1938-46; Assoc. Econ. Adviser, Special Asst. to Under-Sec., Dir. of Office of Financial and Devt. Policy, Deputy on Financial Affairs; Alt., Inter-American Financial and Econ. Advisory Cttee. 1939-45; Alt., Inter-American Econ. and Social Council 1945-46; mem. Inter-American Statistical Inst. 1943-46; Chair. Inter-American Coffee Bd. 1943-44; Trustee, Export-Import Bank of Washington 1944-45; U.S. Exec. Dir. Int. Bank for Reconstruction and Devt. 1946-47; Standard Oil Co. (New Jersey) (now Exxon Corpn.) 1947-, Treas. 1954-60, Dir. 1960, Vice-Pres. 1962-66, Exec. Vice-Pres. 1966-75; Pres. Adela Investment Co., S.A. 1976-; [redacted] (fmr. Chair.) U.S.A./B.I.A.C. for OECD; Dir. J. S. Morgan and Co., Morgan Guaranty Trust Co., Republic Management Co., Discount Corpn. of New York; mem. Council on Foreign Relations; mem. and Dir. Nat. Bureau of Econ. Research; Chair., Center for Inter-American Relations; fmr. mem. Cttee. for Econ. Devt.; Trustee American Econ. Assn., Hispanic Soc. of America; mem. American Acad. of Arts and Sciences, U.S. Council of Int. Chamber of Commerce. *Leisure interests:* swimming, tennis. *Address:* 1 Rockefeller Plaza, New York, N.Y. 10022; 435 East 52nd Street, New York, N.Y. 10022, U.S.A.

COLLEY, George Joseph; Irish solicitor and politician; b. 18 Oct. 1925, Dublin; s. of Henry E. Colley and Christina Nugent; m. Mary Doolan 1950; three s. four d.; ed. Scoil Mhuire, Marino, St. Joseph's Christian Brothers' School, Fairview, and Univ. Coll., Dublin; mem. Dáil Éireann for Dublin N.E. 1961-69, for Dublin N.C. 1969-77, for Dublin-Clontarf 1977-; mem. Legal Cttee. and Political Cttee., Council of Europe (Irish Parl. Del.) 1962-64; Leader, Irish Del. to Council of Europe 1964-65; Parl. Sec. to Minister for Lands and Fisheries 1964-65; Minister for Educ. 1965-66, for Industry and Commerce 1966-70, for the Gaeltacht 1969-73, for Finance 1970-73; Chair. OECD Council 1972; Opposition spokes-[redacted] for Finance 1973-77; Deputy Prime Minister, Minister for Finance and Minister for the Public Service July 1977-; Gov. of IMF 1970-73, 1977-; Fianna Fail. *Address:* 10 Palmerston Gardens, Rathmines, Dublin 6, Ireland.

COLLIER, Gershon Beresford Onesimus, M.A., B.C.L., B.L., LL.M., J.S.D.; Sierra Leonean professor and lawyer; b. 16 Feb. 1927; s. of Samuel Adolphus Collier and Maria Jeanette Collier; m. Fashn Dora 1954; one s.; ed. Fourah Bay Coll., Sierra Leone, Durham Univ., England, Middle Temple, London and New York Univ.; Amb. of Sierra Leone to UN 1961-63, 1964-67, to U.S.A. 1963-67; Vice-Pres. UN Gen. Assembly (19th Session) 1965-66; Chair. UN Cttee. on Colonialism 1965-66; mem. UN Legal Cttee. on Peaceful Uses of Outer Space 1964-67; Chief Justice of Sierra Leone Jan.-April 1967; Senior Fellow, Centre for Int. Studies, New York Univ. 1967-69; mem. many Sierra Leonean and UN dels. to int. confs.; Prof. of Law and African Politics, State Univ. of New York at Albany 1972-; study leave and general legal practice, Sierra Leone 1974-; Chair. Guma Valley Water Co. 1977-; Hon. LL.D. (Univ. of New York, Troy). *Publications:* Sierra Leone: Experiment in Democracy in [redacted] African Nation 1970; chapter in: Committee of 24 Review of United Nations Affairs 1965 and Human Rights in Sierra Leone 1975. *Leisure interests:* tennis, swimming, fishing. *Address:* Department of Afro-American Studies, State University of New York at Albany, Albany, New York, U.S.A.; c/o Principal's Residence, Methodist Girls' High School, Freetown; 4 Percival Street, Freetown, Sierra Leone (Home). *Telephone:* 24300 and 30139 (Home).

COLLIN, Fernand (Jozef Maria Fanny), LL.D.; Belgian company director and university professor; b. 18 Dec. 1897, Antwerp; s. of John F. Collin and Jeanne Verelst; m. Maria Bellekens 1968; two s. three d.; ed. Univ. of Louvain; Lawyer, Antwerp 1923-38; Lecturer, Univ. of Louvain 1925, Prof. 1927-68, Dean Faculty of Law and mem. Rectorial Council 1945-48; Chair. Bd. of Dirs. Kredietbank 1938-73; Chair. Belgian Assoc. Investment Funds 1958-62, Imperial Products Co. 1959-; Utrecht-Allerlei Risico's 1959-71, Banque Diamantaire Anversoise 1964-68, Continental Foods 1968-; Dir. Gevaert Photo-Products 1952-; mem. Man. Cttee. Inst. de Rescompte et de Garantie 1940-63; Chair. Benelux Cttee. 1959-66; Chair. Cen. Social Section, Belgian Banking Assn. 1939-45; Chair. Supreme Family Council 1952-59; mem. Higher Council for Physical Educ. and Sports 1930-40; Royal Commissary to Middle Classes 1937; Chair. Cardiology Foundation Princess Liliane 1961-73; Pres. Int. Cardiology Fed. 1970-72; Commdr. Order of the Crown and Commdr. Order of Léopold, Grand Officer Order Léopold II (Belgium); Commdr. Order of Orange-Nassau (Neths.), Commdr. Italian Order of Merit, Commdr. Order St. Gregory the Great, Grand Officer Order of the Crown (Belgium), Grand Officer Order of Merit (Luxembourg), and other decorations. *Publications:* Enrico Ferri et l'avant-projet du code pénal italien de 1921 1925, Rapport sur les classes moyennes 1937, Strafrecht 1948, Code d'instruction criminelle et lois complémentaires (with M. H. Bekaert) 1949. *Leisure interests:* music, horse-riding. *Address:* Mechelsesteenweg 196, Antwerp, Belgium. *Telephone:* 03/37-86-39.

COLLIN, Jean, L.EN.D.; Senegalese politician; b. 19 Sept. 1924, Paris, France; s. of Louis Collin and Madeleine Meunier; m. Marianne Turpin 1973; one s. one d.; Chief Admin., French Overseas Territories; Chief Information Service and Dir. Radio-Dakar 1948; posted to Cameroon 1951-56; Dir. of Cabinet of Mamadou Dia, Vice-Pres. then Pres. of the Council 1957-58; Gov. of Cap-Vert March 1960-Dec. 1960; Sec.-Gen. of the Govt. 1960-64; Gen. Commr. of the Govt. to the Supreme Court 1960; Perm. Sec. to the Higher Council for Defence 1961-63; Sec.-Gen. to the Presidency of the Repub. 1963-64; Minister of Finance and Econ. Affairs 1964-71, of the Interior 1971-75, of State for the Interior 1975-; mem. IMF 1968-71. *Address:* 25 Avenue Carde, Dakar, Senegal.

COLLINGWOOD, Charles; American radio and television broadcaster; b. 4 June 1917; ed. Cornell Univ. and New Coll., Oxford; Foreign Corresp. United Press, London 1939, Amsterdam 1940; Foreign Corresp. CBS, North Africa 1942-43, France and Germany 1944-45, UN 1946-47, White House 1948-51, Special Asst. Dir. for Mutual Security (U.S. Govt.) 1951-52; radio and TV commentator 1952-; Chief, London Bureau CBS 1957-59; Corresp. New York 1959-64, Chief European Corresp. CBS News 1964-67, Chief Foreign Corresp. 1967-75; Chevalier, Légion d'honneur, Hon. O.B.E. 1975. *Publication:* The Defector 1970. *Address:* CBS News, 524 W. 57th Street, New York, N.Y. 10019 (Office); 47 E. 64th Street, New York, N.Y. 10021, U.S.A. (Home).

COLLINS, Basil Eugene Sinclair, F.Z.S., F.I.D., F.B.I.M.; British business executive; b. 21 Dec 1923, London; s. of Albert Collins and Pauline Alicia (née Wright); m. Doris Slott 1942; two d.; ed. Great Yarmouth Grammar School; joined L. Rose & Co. Ltd. as Accountant 1945, Sales Man. at time of merger with Schweppes Ltd., Export Dir., Schweppes (Overseas) Ltd. 1958; Group Admin. Dir., Schweppes Ltd. 1964, Chair. Overseas Group 1968; Chair. Overseas Group of Cadbury Schweppes Ltd. 1969, Deputy Man. Dir. 1972, Man. Dir. 1974-; Vice-Pres. Royal Coll. of Nursing 1972–, Chair. Devt. Trust 1971-, Chair. Finance and Gen. Purposes Cttee. 1970-, Hon. Treas. of Coll. 1970-. *Leisure interests:* music, languages, travel, English countryside. *Address:* Cadbury Schweppes Ltd., 1–10 Connaught Place, London, W2 2EX; Wyddial Parva, Buntingford, Herts., England. *Telephone:* 01-262 1212 (Office); 0763-72572 (Home).

COLLINS, Gen. Joseph Lawton; American retd. army officer; b. 1 May 1896; ed. Louisiana State Univ., and U.S. Mil. Acad.; graduated Mil. Acad. 1917, Instructor U.S. Mil. Acad. 1921-25, Infantry School 1927-31; student Command & Gen. Staff School 1931-35, Army Industrial Coll. 1936-37, Army War Coll. 1937-38; advanced through grades to Brig.-Gen. 1942, Major-Gen. 1942, Lieut.-Gen. 1945, Gen. 1948; Instructor Army War Coll. 1938-40; Asst. Sec. War Dept. Gen. Staff 1940-41; Chief of Staff, VII Army Corps 1941, Hawaiian Dept. 1941-42; Commdr. 25th Div. 1942-44, VII Corps 1944-45; Deputy Commdg.-Gen. and Chief of Staff Army Ground Forces 1945; Chief of Public Information War Dept. 1945-47; Deputy Chief of Staff, then Vice-Chief of Staff, U.S. Army 1947-49, Chief of Staff 1949-53; U.S. Rep. Military Cttee. and Standing Group, NATO 1953-56; special rep. of U.S. in Viet-Nam with rank of Amb. 1954-55; retd. from active service 1956; Dir. and Vice-Chair. of the President's Cttee. for Hungarian Refugee Relief 1956-57; elected to Bd. of Dirs., Chas. Pfizer & Co. Inc., New York; Vice-Chair. of the Bd., Pfizer Int. Inc., New York 1957-69; Chair. Bd. of Dirs., Foreign Student Service Council of Greater Washington 1957-58, Hon. Chair. 1958-; Bd. of Trustees of Inst. of Int. Educ. Inc., New York 1957-63; mem. USO Corpn. 1959-60, USO Nat. Council 1960-63; Chair. Greater Washington Council of Organizations Serving Int. Visitors 1962-64. *Address:* 1700 Pennsylvania Avenue, N.W., Washington 5, D.C., U.S.A.

COLLINS, Rev. Canon L(ewis) John, M.A.; British ecclesiastic; b. 23 March 1905, Hawkhurst, Kent; s. of Arthur and Hannah P. Collins; m. Diana Catherine Elliot; four s.; ed. Cranbrook School, Sidney Sussex Coll., Cambridge and Westcott House, Cambridge; Chaplain, Sidney Sussex Coll., Cambridge 1929-31; Minor Canon, St. Paul's Cathedral, London 1931-34; Priest-in-Ordinary to H.M. King George V; Vice-Principal, Westcott House, Cambridge 1934-37; Dean, Chaplain and Fellow, Oriel Coll., Oxford 1938-48; R.A.F. Chaplain 1940-45; Canon Residentiary, St. Paul's Cathedral 1948–; Chair. Campaign for Nuclear Disarmament 1958-64; Co-Pres. Western European Movt. against Nuclear Weapons 1959-64; Pres. Int. Defence and Aid Fund 1964-; Chair. ChristianPres. 1950-; Grand Companion of Freedom (Zambia), Commdr. of the Order of the Northern Star (Sweden). *Publications:* The New Testament Problem 1938, Theology of Christian Action 1947, Faith under Fire 1966 and contributions to various books and journals. *Leisure interests:* walking, gardening. *Address:* 2 Amen Court, London, EC4M 7BX; Mill House, Chapel Road, Mount Bures, Suffolk, England. *Telephone:* 01-248 3747 (London).

COLLINS, Michael; American fmr. astronaut and museum official; b. 31 Oct. 1930, Rome, Italy; m. Patricia M. Finnegan 1957; one s. two d.; ed. U.S. Military Acad. and Harvard Univ.; commissioned by U.S.A.F., served as experimental flight test officer, A.F. Flight Test Center, Edwards A.F. Base, Calif.; selected by NASA as astronaut Oct. 1963; backup pilot for Gemini VII mission 1965; pilot of Gemini X 1966; command pilot, Apollo XI mission for first moon landing July 1969; Asst. Sec. for Public Affairs, Dept. of State 1970-71; Dir. Nat. Air and Space Museum 1971-78, Under-Sec. Smithsonian Inst 1978-; Maj.-Gen. U.S.A.F. Reserve; Fellow, Royal Aeronautical Soc., American Inst. of Aeronautics and Astronautics; mem. Int. Acad. of Astronautics, Int. Astronautical Fed.; Exceptional Service Medal (NASA), D.S.M. (NASA), Presidential Medal of Freedom, D.C.M. (U.S.A.F.), D.F.C., F.A.I. Gold Space Medal. *Publications:* Carrying the Fire 1974, Flying to the Moon and Other Places 1976. *Address:* Smithsonian Institution, Washington, D.C., U.S.A.

COLLINS, Norman Richard; British writer; b. 3 Oct. 1907; ed. William Ellis School, Hampstead; with Oxford Univ. Press 1926-29; Asst. Literary Ed. News Chronicle 1929-33; Deputy Chair. Victor Gollancz 1934-41; Empire Talks Man., BBC 1941-44, Dir.-Gen. Overseas Service 1944-46, Head of Light Programme 1946-47, Controller of Television 1947-50; Chair. Hyde Park Films and Watergate Productions Ltd.; Gov. British Film Inst. 1949-51; Pres. Radio Industries Club 1950; Dir. Assoc. Television Corpn. Ltd. (Assoc. Communications Corpn. since 1978); Councillor English Stage Co. 1964-78; Gov. Sadler's Wells; Pres. Lifeline 1962-70; Chair. Cen. School of Speech and Drama, Independent Broadcasting Services Ltd.; Dir. Independent Television News Ltd., UPITN Corpn. 1971-73; Chair. Lord Mayor of London's 1976 Nat. Appeal for the Aged, British Foundation for Age Research. *Publications:* The Facts of Fiction 1932, Penang Appointment 1934, The Three Friends 1935, Trinity Town 1936, Flames Coming Out of the Top 1937, Love in Our Time 1938, The Captain's Lamp (play) 1938, I Shall Not Want 1940, Anna 1942, London Belongs to Me 1945, Black Ivory 1948, Children of the Archbishop 1951, The Bat that Flits 1953, The Bond Street Story 1959, The Governor's Lady 1968, The Husband's Story 1978. *Address:* Mulberry House, Church Row, Hampstead, London, N.W.3., England.

COLLINS, Ralph Edgar, M.A.; Canadian diplomatist; b. 23 Nov. 1914, Yunnanfu, China; m. Jane Irwin; three c.; ed. Univ. of Alberta, Zimmern School of Int. Studies, Geneva, Univ. of Calif. and Harvard and Oxford Univs.; joined Dept. of External Affairs 1940, served in Washington, Ottawa, London and Moscow 1940-56; Head, Far Eastern Div., Dept. of External Affairs 1957; Fellow, Harvard Center for Int. Affairs 1960-61; Head, African and Middle East Div., Dept. of External Affairs 1961; Amb. to South Africa 1964-65; Asst. Under-Sec. of State for External Affairs 1965-71, 1972-; Amb. to People's Repub. of China 1971-72. *Address:* c/o Department of External Affairs, Ottawa, Ont. K1A 0G2, Canada.

COLLINS, Samuel Cornette, M.S., PH.D., LL.D., D.SC.; American professor of mechanical engineering; b. 1898, Kentucky; s. of John W. and Rachel (Caudill) Collins; m. Lena Masterson 1929; no c.; ed. Univs. of Tennessee and North Carolina; taught successively at Carson-Newman Coll., Univ. of Tenn., Tenn. State Teachers' Coll. and Univ. of N.C.; joined staff M.I.T. 1930, Assoc. Prof. of Chem. 1943, Prof. of Mechanical Eng. 1949-64; previously engaged in further devt. and manufacture of cryogenic equipment and now Consultant, Naval Research Lab., Washington, D.C.; Vice-Pres. Cryogenic Technology Inc. 1969; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Hon. D.Sc. (Univ. of N.C.), Hon. LL.D. (St. Andrews); John Price Wetherill Medal, Franklin Inst. 1951, Kamerling Onnes Gold Medal 1958, Rumford Premium, American Acad. of Arts and Sciences 1965, Gold Medal, American Soc. of Mech. Engineers. *Publications:* Expansion Machines (with R. L. Cannaday) 1958; contributions to scientific journals, etc. *Address:* 12322 Riverview Road, Oxon Hill, Md. 20022, U.S.A. *Telephone:* 292-1367.

COLOMA GALLEGOS, Francisco; Spanish army officer and politician; b. 1912; m. 1st (deceased); m. 2nd 1976; six c.; ed. Acad. General Militar; army career 1930-72, Col. 1959; Military Attaché, Spanish Embassy, Washington 1960; Brig.-Gen., Chief of Staff Eighth Mil. Region 1965, transferred to Cen. Staff 1967; Maj.-Gen. 1969, Lt.-Gen. 1972; Under-Sec. Ministry for the Army 1969, Minister 1973-75; Capt.-Gen. Fourth Mil. Region 1975-. *Address:* Capitania General, Fourth Military Region, Barcelona, Spain.

COLOMBANI, Ignace Jean Aristide; French overseas administrator; b. 1908, Montreal, Canada; s. of Paul-Marie Colombani and Victorine Cormier; m. Marie-Laure Pellegrini 1943; one s.; ed. Ecole Pascal-Paoli, Morosaglia, Bastia Lycée and Ecole Nat. de la France d'Outre-Mer.; Admin., French West Africa 1933-49; Gov. Niger 1949-50, Oubangui-Chari (now Cen. African Empire) 1950-51, Chad 1951-56; Pres. Lingua Corsa; Officier de la Légion d'honneur, Commandeur de l'Etoile noire, Chevalier du Mérite agricole, Croix du Mérite de 1ère Classe de l'Ordre Souverain de Malte. *Leisure interest:* Corsican dialect. *Address:* 15 rue César Campinchi, Bastia, Corsica. *Telephone:* Bastia 31-43-23.

COLOMBO, Duilio; Italian industrial executive; b. 31 Jan. 1913, Rome; m. Luciana Di Nola; four c.; Man., Finsider S.p.A. 1948-51, Dir.-Gen. 1974-75, Vice-Chair. 1975-77, Commercial Dir. Cornigliano S.p.A. 1951-58; Dir.-Gen. Siderexport S.p.A. 1959-61, Pres.

1970-; Vice-Dir.-Gen. Italsider S.p.A. 1961-64, Dir.-Gen. 1966-74; Dir.-Gen. Deriver S.p.A. 1964-66. *Address:* Via F. Denza, 21-Rome, Italy. *Telephone:* 87.29.40.

COLOMBO, Emilio; Italian politician; b. 11 April 1920; ed. Rome Univ.; took active part in Catholic youth orgs.; fmr. Vice-Pres. Italian Catholic Youth Assen.; Deputy, Constituent Assembly 1946-48, Parl. 1948-; Under-Sec. of Agriculture 1948-51, of Public Works 1953-55; Minister of Agriculture 1955-58, of Foreign Trade 1958-59, of Industry and Commerce 1959-60, March-April 1960, July 1960-63, of the Treasury 1963-70, Feb.-May 1972; Prime Minister 1970-72; Minister without Portfolio in charge of Italian representation of UN 1972-73; Minister of Finance 1973-74, of the Treasury 1974-76; mem. European Parl. 1976- (Pres. 1977-79); Pres. Nat. Cttee. for Nuclear Research 1961; mem. Cen. Cttee. Christian Dem. Party 1952 and 1953. *Address:* Via Aurelia 239, Rome, Italy.

COLOMBO, H.E. Cardinal Giovanni; Italian ecclesiastic; b. 6 Dec. 1902; ordained priest 1926; consecrated Titular Bishop of Philippopolis in Arabia 1960; Archbishop of Milan 1963-; mem. Cttee. of the Ecumenical Council on Catholic Seminaries and Educ.; created Cardinal 1965. *Address:* Palazzo Arcivescovile, Piazza Fontana 2, Milan, Italy.

COLOMBO, Vittorino; Italian politician; b. 3 April 1925, Albiate (Milan); ed. Università Cattolica, Milan; Deputy for Milan-Pavia to Chamber of Deputies 1958-; mem. Nat. Council, Italian Workers' Catholic Action; mem. Federchimici. Fed. of Independent Trade Unions; mem. Nat. Council, Christian Democratic Party; fmr. Under-Sec. of State to Ministry of Finance; Minister of Foreign Trade 1968-69; Minister of Health March-Oct. 1974, of Posts and Telecommunications 1976-78, of Transport and the Merchant Navy 1978-79, of Posts and Telecommunications March 1979-. *Address:* c/o Ministry of Posts and Telecommunications, Via del Seminano 76, Rome 00100, Italy; Via Ruggero di Lauria 6, Milan, Italy (Home). *Telephone:* 86-11-59 (Home).

COLONNA DI PALIANO, Don Guido; Italian diplomatist; b. 16 April 1908; ed. Università degli Studi, Naples; Foreign Service 1933-, served New York, Toronto, Cairo, Stockholm, London, OEEC, Paris; Deputy Dir. of Political Affairs, Ministry of Foreign Affairs 1956-58; Amb. to Norway 1958-62; Deputy Sec.-Gen. North Atlantic Treaty Org. (NATO) 1962-64; mem. Comm. of EEC, Brussels 1964-67; mem. Combined Comm. of EEC, ECSC and Euratom 1967-70; Pres. La Rinascente (Italian dept. store) 1970-77; mem. Board of Dirs. Exxon Corpn. 1970-75. *Address:* c/o La Rinascente, Piazza Carlo Erba 6, Milan, Italy.

COLOTKA, Peter, JUDR., DR.SC.; Czechoslovak lawyer and politician; b. 10 Jan. 1925, Sedliacka Dubová; ed. Comenius Univ., Bratislava; Asst. Lecturer, Faculty of Law, Comenius Univ., Bratislava 1950-56, Asst. Prof. 1956-64, Prof. 1964-, Vice-Dean 1956-57, Dean 1957-58, Pro-Rector of Univ. 1958-61; Commr. for Justice, Slovak Nat. Council 1963-68; Deputy to Slovak Nat. Council 1963–; mem. Presidium, Slovak Nat. Council 1963-68; Deputy Premier 1968-69; Deputy Premier, Fed. Govt. Sept. 1969-; mem. Cen. Cttee. CP of Czechoslovakia and Cen. Cttee. of CP of Slovakia 1966-; Deputy to House of Nations Fed. Assembly Dec. 1968-, Pres. of Fed. Assembly Jan.-April 1969; mem. Presidium of Fed. Assembly Jan.-April 1969; Premier of Slovak Socialist Repub. May 1969-; mem. Presidium of Cen. Cttee. CP of Slovakia May 1969-; mem. Presidium of Cen. Cttee. CP of Czechoslovakia April 1969-; mem. Int. Court of Arbitration, The Hague 1962-70; Distinction for Merit in Construction 1965, Order of Labour 1969, Gold Medal of J. A. Comenius Univ. 1969, Order of Victorious February 1973, Order of the Repub. 1975. *Publications:* Personal Property 1956, Our Socialist Constitution 1961; scientific studies and articles in collaboration with Dr. Matoušek. *Address:* Government of S.S.R., Bratislava, Czechoslovakia.

COMAN, Col.-Gen. Ion; Romanian army officer and politician; b. 25 March 1926, Bujoreni, Teleorman County; ed. Mil. Acad.; promoted to Maj. Gen. 1962, Sec. High Political Council of Armed Forces 1965-73, Chief of Gen. Staff 1974-76; mem. Grand Nat. Assembly 1965-; Deputy Minister of Nat. Defence 1965-73, First Deputy Minister 1974-76, Minister June 1976-; mem. Romanian CP 1945-, mem. Cen. Cttee. 1965-, Head of Section, Cen. Cttee. 1973-74, alt. mem. Exec. Political Cttee. 1976-; mem. Nat. Council of Socialist Unity Front; Order of Star of Socialist Repub. of Romania and other Romanian and foreign decorations. *Publications:* works on military theory and history. *Address:* Ministry of National Defence, Bucharest, Romania.

COMAY, Michael, B.A., LL.B.; Israeli diplomatist; b. 18 Oct. 1908; m.; two c.; ed. Cape Town Univ., South Africa; Barrister, Supreme Court 1931-40; Maj., South African Army 1940-45; Special Rep. South African Zionist Fed., attached to Political Dept. Jewish Agency, Jerusalem 1946-48; mem. Israel del. to UN 1947-48; Dir. British Commonwealth Div., Israel Foreign Ministry 1948-51; Amb. to Canada 1953-57; Asst. Dir.-Gen. Ministry for Foreign Affairs 1957-59; Perm. Rep. to UN 1960-67; Political Adviser to Foreign Minister and Amb.-at-Large 1967-70; Amb. to U.K. 1970-73; Special Adviser to Minister of Foreign Affairs 1973-76; Research Fellow Leonard Davis Inst. for Int. Affairs 1976-. *Address:* Leonard Davis Inst. for Int. Affairs, Hebrew Univ. of Jerusalem; 47 Harav Berlin Street, Jerusalem, Israel (Home).

COMFORT, Alexander, M.A., M.B., D.SC., M.R.C.S., L.R.C.P., D.C.H.; British medical biologist and writer; b. 10 Feb. 1920; ed. Highgate School, Trinity Coll., Cambridge, and The London Hospital; medical and hospital practice 1944-48; Lecturer in Physiology, The London Hospital 1948-51; Nuffield Research Asst. Univ. Coll., London 1951-54, Nuffield Research Fellow in Biology of Senescence 1954-63; Dir. Medical Research Council Research Group in Ageing, Univ. Coll., London 1963-70; Dir. of Research, Gerontology, Univ. Coll., London 1970-73; Clinical Lecturer, Dept. Psychiatry, Stanford Univ. 1974-; Fellow Inst. of Higher Studies, Santa Barbara, Calif. 1975-; Prof. Dept. Pathology, Medical Coll., Univ. of Calif. 1976-78; Adjunct Prof., Dept. Psychiatry, Univ. of Southern Calif. 1977-; Consultant, Geriatric Psychiatry, VA Hospital, Brentwood, Calif. 1977-. *Publications:* Novels: No Such Liberty 1941, The Almond Tree 1943, The Powerhouse 1945, On This Side of Nothing 1948, A Giant's Strength 1952, Come out to Play 1961, A Fearful Symmetry, A Grain of Sand, Beyond the Night of Beulah (trilogy) 1978, Tiger, Tiger 1978; Verse: A Wreath for the Living 1942, Elegies 1944, The Signal to Engage 1946, And All but he Departed 1952, Haste to the Wedding 1962, Poems for Jane 1979; Stories: Letters from an Outpost 1947; Essays: Art and Social Responsibility 1946, The Novel and Our Time 1948, The Pattern of the Future 1951, Darwin and the Naked Lady 1961; Other: Barbarism and Sexual Freedom 1948, Sexual Behaviour in Society 1949, First-Year Physiological Technique 1949, Authority and Delinquency in the Modern State 1950, The Biology of Senescence 1956, Sex in Society 1963, Ageing 1964, The Koka Shastra (trans.) 1964, The Process of Ageing 1964, Nature and Human Nature (essays) 1966, The Anxiety Makers 1967, The Joy of Sex 1972, More Joy 1964, A Good Age 1976, Sexual Problems of Disability (ed.) 1978, I and That: the Biology of Religion 1979, One Plus One (with Jane Comfort) 1979. *Address:* 683 Oak Grove Drive, Santa Barbara, Calif. 93108, U.S.A.

COMITI, Joseph; French surgeon and politician; b. 1920; Sec. of State for Youth and Sports 1968-69; Sec. of State in charge of Youth, Sports and Leisure 1969-72; Minister for Youth and Sports 1972-73; Minister in charge of Relations with Parl. April-Oct. 1973; Sec. of State for Overseas Depts., and Territories March-May 1974; Pres. Haut Comité de la Jeunesse, des Sports et des Loisirs 1970–; Chevalier, Légion d'honneur. *Address:* 14 rue de Lorraine, 13008 Marseilles; 7 avenue Maréchal-Lyautey, Parc Talabot, 13067 Marseilles, France (Home).

COMMAGER, Henry Steele, PH.B., M.A., PH.D., M.A.(Cantab.), M.A.(Oxon.); American historian; b. 25 Oct. 1902; ed. Chicago and Copenhagen Univ.; Prof. New York Univ. 1925-39, Columbia 1939-56, Cambridge 1942-43; Pitt Prof. American History, Cambridge Univ. 1947-48; Harmsworth Prof. of American History, Oxford Univ. 1952-53; Gottesman Prof., Uppsala 1953; Prof. History, Amherst Coll. 1956-72, Simpson Lecturer 1972; Hon. Fellow, Peterhouse, Cambridge; Visiting Prof. Univ. of Copenhagen 1956; Commonwealth Lecturer, Univ. of London 1965; Visiting Prof. M.I.T. 1975, 1977; Patten Lecturer, Univ. of Ind. 1978; Vice-Pres. Nat. Comm. Effective Congress; consultant U.S. War Dept. Historical Branch, U.S. Office War Information, State Dept., U.S. Army I. & E. Div.; Trustee American Scandinavian Foundation, Friends of Cambridge Univ.; mem. U.S. War Dept. Comm. on History of War, UNESCO Nat. Comm., Exec. Cttee., U.S. Del. to UNESCO; mem. American Acad. of Arts and Letters; hon. degrees Columbia, Pa., Ohio State, Cambridge and other univs.; Gold Medal for History, American Acad. of Arts and Letters 1972; Knight Order of Dannebrog, Sidney Hillman Award for Lifetime services to Civil Liberties. *Publications:* The American Republic (2 vols., with S. E. Morison) 1930, Documents of American History 1934, Theodore Parker 1936, America: Story of a Free People (with A. Nevins) 1942, Majority Rule and Minority Rights 1943, History of the Second World War 1945, The American Mind 1950, The Great Declaration 1959, The Great Proclamation 1960, The Great Constitution 1961, The Story of Human Rights 1961, Living Ideas in America 1951, America's Robert E. Lee 1951, The Blue and the Gray (2 vols.) 1951, Freedom, Loyalty and Dissent 1954, Joseph Story 1954, The Spirit of Seventy-Six (with R. B. Morris), Europe and America (with G. Bruun), Writings of Theodore Parker 1961,

The Era of Reform 1961, Studies in Immigration 1961, Crusaders for Freedom 1961, History: Nature and Purpose 1965, Freedom and Order 1966, Search for a Usable Past 1967, Was America a Mistake? 1968, The Commonwealth of Learning 1968, The American Character 1970, The Use and Abuse of History 1972, Britain Through American Eyes 1974, The Defeat of America 1974, Essays on the Enlightenment 1974, Empire of Reason 1977; Editor Tocqueville's Democracy in America 1947, America in Perspective 1948, St. Nicholas Anthology 1948, The Rise of the American Nation (50 vols. in progress), Documents of American History 1950, Chester Bowles: An American Purpose 1961, Lester Ward and the Welfare State, Defeat of the Confederacy, The Nature and Study of History 1965, The Struggle for Racial Equality 1967. *Leisure interest:* music. *Address:* 405 S. Pleasant Street, Amherst, Mass., U.S.A. *Telephone:* (413) 253-3114.

COMMINS, Thomas Vincent; Irish diplomatist (retd.); b. 3 Oct. 1913, Ballymoreen, Co. Tipperary; s. of the late James and Mary Commins; ed. Rockwell Coll., and Univ. Coll., Dublin; Irish Govt. Service 1933-46; Diplomatic Service 1946-; Commercial Sec., Washington, D.C. 1946-48; Counsellor, Dept. of External Affairs 1948-54; Counsellor, Paris 1954-55; Chargé d'affaires *en titre*, Lisbon 1955-59; Minister to Argentina 1959-60; Amb. to Italy 1960-62, to Holy See 1962-66, 1970-74, to France 1966-70; also Perm. Rep. of Ireland to OECD; Dept. Foreign Affairs, Dublin 1974-77; Knight Grand Cross Order of Pius IX. *Leisure interests:* music, theatre, golf. *Address:* 12 Fairbrook Lawn, Ballyboden Road, Rathfarnham, Co. Dublin, Ireland. *Telephone:* 900350.

COMMONER, Barry, A.B., M.A., PH.D.; American professor of plant physiology; b. 28 May 1917, New York; s. of Isidore Commoner and Goldie Yarmolinsky; m. Gloria Gordon 1946; one s. one d.; ed. Columbia Coll. and Harvard Univ.; Asst. in Biology, Harvard Univ. 1938-40; Instructor, Queens Coll. 1940-42; U.S. Naval Reserve 1942-46; Assoc. Editor Science Illustrated 1946-47; Assoc. Prof. of Plant Physiology, Washington Univ., St. Louis 1947-53, Prof. 1953-76, Univ. Prof. of Environmental Science 1976-, Chair. Dept. of Botany 1965-69, Dir. Center for the Biology of Natural Systems 1965-; Hon. Life Vice-Pres. Soil Assn. 1968; Dir. A.A.A.S. 1967-74; Chair. A.A.A.S. Comm. on Environmental Alterations 1969-74; Pres. St. Louis Comm. for Nuclear Information 1965-66, mem. Bd. of Dirs. of St. Louis Comm. for Environmental Information 1958-, Pres. 1965-66; mem. Bd. of Dirs. Scientists' Inst. for Public Information 1963-, Co-Chair. 1967-69, Chair. 1969-78, Chair. Exec. Cttee. 1978–; mem. Gov. Bd. American Inst. of Biological Sciences 1965-67; mem. Sec.'s Advisory Council, U.S. Dept. of Commerce 1976, Advisory Cttee., Center for Devt. Policy, Council of Advisers, The Fund for Peace 1978; mem. of other consultatory bds.; mem. Editorial Bd. The World Book Encyclopedia and Environmental Pollution, National Wildlife, Journal of Human Ecology, Environment; mem. Advisory Bd. Science Year; mem. Bd. of Sponsors, In These Times 1976-; mem. Soc. of Biological Chemists, American Chem. Soc., Soc. Plant Physiologists, Soc. Gen. Physiologists, Nat. Parks Assn., Ecological Soc., Fed. of American Science; Hon. D.Sc. (Williams Coll.) 1970, (Clark Univ.) 1974; Commdr. of the Order of Merit of the Repub. of Italy 1977; First Int. Humanist Award 1970; Phi Beta Kappa Award for The Closing Circle 1972, Int. Prize from the City of Cervia, for Safeguarding the Environment, Italy 1973, Premio Iglesias, Italy 1978. *Publications:* Science and Survival 1966, The Closing Circle 1971, La Tecnologia del Profitto 1973, The Poverty of Power 1976, Ecologia e Lotte Sociali 1976; and over 250 articles, many of which are concerned with the origins and significance of alterations in the environment, especially in relation to modern technology. *Leisure interest:* walking. *Address:* Center for the Biology of Natural Systems, Box 1126, Washington University, St. Louis, Mo. 63130, U.S.A. *Telephone:* (314) 889-5350.

COMPTON, Denis Charles Scott, C.B.E.; British cricketer (retd.), journalist and advertising executive; b. 23 May 1918, Hendon; s. of Harry Ernest Compton and Jessie Douthie; m. Christine Franklin Tobias 1975; three s. from previous marriages; ed. Bell Lane School, Hendon; first played for Middx. County Cricket Club 1936, for England v. New Zealand 1937, v. Australia 1938, v. West Indies 1939, v. India 1946, v. South Africa 1947; played in 78 Test Matches; made 122 centuries in first class cricket; retd. 1957; played Association Football, mem. Arsenal XI; England XI 1943; Cricket Corresp., Sunday Express 1951-; Commentator, BBC Television 1958-; Exec. in Advertising Co. 1958-; one of Wisden's Cricketers of the Year 1939; Sportsman of the Year 1947, 1948; Hon. mem. MCC 1957-; FA Cup Winners' Medal 1949-50. *Publications:* Testing Time for England 1948, Playing for England 1948, End of an Innings 1958. *Leisure interests:* golf, tennis, theatre. *Address:* Royds House, Mandeville Place, London, W1M 6AE, England.

COMPTON, Sir Edmund Gerald, G.C.B., K.B.E., M.A.; British civil servant; b. 30 June 1906; m. Betty Tresyllian Williams 1934; one s. four d.; ed. Rugby School and New Coll., Oxford Univ.; joined Civil Service 1929; attached to Colonial Office 1930; joined Treasury 1931; Private Sec. to Financial Sec. to Treasury 1934-36; Private Sec. to Minister of Aircraft Production 1940; with Ministry of Supply 1941; Asst. Sec., Treasury 1942-47, Under Sec. 1947-49, Third Sec. 1949-58; Comptroller and Auditor Gen. 1958-66; Parl. Commr. for Admin. (Ombudsman) 1967-71, and in Northern Ireland 1969-71; Chair. Local Govt. Boundary Comm. 1971-78; BBC Programmes Complaints Comm. 1972-; Royal Acad. of Music 1975–. *Address:* 53 Evelyn Gardens, London, S.W.7, England. *Telephone:* 01-370 3220

COMPTON, John; St. Lucia politician; Leader, United Worker's Party; Chief Minister of St. Lucia 1964, Premier 1967-79, Prime Minister Feb.-July 1979. *Address:* c/o Office of the Prime Minister, Castries, St. Lucia.

COMROE, Julius H., Jr., A.B., M.D.; American physiologist; b. 13 March 1911, York, Pa.; s. of Julius Comroe and Mollie (Levy) Comroe; m. Jeanette Wolfson 1936; one d.; ed. Univ. of Pennsylvania; Instructor, Univ. of Pa. School of Medicine 1936-40, Assoc. in Pharmacology 1940-42, Asst. Prof. 1942-46; Prof. and Chair., Dept. of Physiology and Pharmacology, Univ. of Pa. Graduate School of Medicine 1946-57; Dir. Cardiovascular Research Inst. and Prof. of Physiology, Univ. of Calif. Medical Center, San Francisco 1957-73, Prof. of Biology 1974-; Editor Circulation Research (American Heart Assn.) 1966-71; mem. Nat. Acad. of Sciences; Fellow, Royal Coll. of Physicians (U.K.) 1971; Hon. medical degree, Karolinska Inst., Stockholm 1968; Hon. D.Sc., Univ. of Chicago 1968; Research Achievement Award, American Heart Assn. 1968, Trudeau Medal, American Lung Assn. 1974, Gold Heart Award, American Heart Assn. 1975, Kovalenko Medal, Nat. Acad. of Science 1976, Daggs Award, American Physical Soc. 1977, American Coll. of Physicians Medal 1977. *Publications:* Physiological Basis for Oxygen Therapy (with R. D. Dripps) 1950, Pulmonary Function Tests, Vol. II (in English and Japanese) 1950, The Lung: Clinical Physiology and Pulmonary Function Tests (with Foster, DuBois, Briscoe and Carlsen—in English, Spanish, Japanese, French, Russian, German, Italian and Turkish) 1955, 1962, Physiology of Respiration (in English, French, Italian, Spanish, German, Portuguese, Turkish, Japanese) 1965, 1974, Pulmonary and Respiratory Physiology 1976, Retrospectroscope 1977. *Leisure interest:* writing. *Address:* Cardiovascular Research Institute, University of California Medical Center, San Francisco, Calif. 94143; 555 Laurent Road, Hillsborough, Calif. 94010, U.S.A. (Home). *Telephone:* 415-666-1048 (Office); 415-342-2631 (Home).

CONANT, Kenneth John, A.B., M.ARCH., PH.D.; American archaeologist; b. 28 June 1894, Neenah, Wisconsin; s. of John F. Conant and Lucie E. Micklesen; m. 1st Marie A. Schneider 1923, two s.; m. 2nd Isabel Pope 1956; ed. Harvard Univ.; apptd. to Harvard Univ. staff 1920, Asst. Prof. 1925, Prof. of Architecture 1936-55, Prof. Emer. 1956-; Harvard Exchange Prof., Sorbonne 1935-36 and 1950, Nat. Univ. of Mexico 1942; Guggenheim Fellowships 1927-29 (for expeditions to Cluny) and 1955; excavations at Cluny 1928-50; expeds. to Cathedral of Santiago de Compostela 1920, 1924 and 1950, expeditions to Central America 1926, Kiev 1935 and 1936, to Abbey of Montecassino 1935, Holy Sepulchre 1938, 1955, St. Sophia, Constantinople 1935 and 1938; hon. mem. Faculty of Architecture, Univ. of Buenos Aires, Acad. de Mâcon, France, American Inst. of Architects, Acad. d'Aix-en-Provence; Hon. F.S.A. London, Royal Soc. of Arts, Benjamin Franklin Fellow 1960; corresp. Fellow of Soc. des Antiquaries de France; non-resident mem. Acad. de Dijon; Fellow American Philosophical Soc., Mediaeval Acad. of America; Hon. Pres. Archaeological Inst. of America, Soc. of Architectural Historians, Assoc. Splendide Bourgogne, Tournus, France; Hon. Corresp. Compagnie des Architectes en Chef des Monuments Historiques; corresp. mem. British Acad.; Dr. (h.c.) Lawrence Univ., Univs. of Dijon (France) and Illinois; Medallist of the Soc. of Architectural Historians, of the Signet 1960, of Mediaeval Acad. of America, and the Acad. d'Architecture, Paris, France 1972; Officier de la Légion d'honneur, and other decorations; Hon. Citizen Ville de Cluny, France. *Publications:* The Early Architectural History of the Cathedral of Santiago de Compostela 1926, Brief Commentary on Early Mediaeval Church Architecture 1942, Benedictine Contributions to Church Architecture 1949, Arquitectura Moderna en los Estados Unidos 1949, Carolingian and Romanesque Architecture 1959, 1966, 1974, Cluny-Les Eglises et la Maison du Chef d'Ordre 1968, etc. *Leisure interests:* historical research, drawing, travel. *Address:* 3 Concord Avenue, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-354-2881.

CONCEPCIÓN, Roberto, A.A., L.L.B.; Philippine lawyer; b. 7 June 1903, Manila; s. of Isidro Bernardino Concepción and Catalina Cabral Reyes; m. Dolores Buenaventura Concepción 1926; two s. three d.; ed. San Beda Coll. and Univ. of Santo Tomás; private practice 1925-29; Asst. Attorney, Office of the Attorney-Gen. 1929-38; successively Asst. Solicitor-Gen., Judge of First Instance, Under-Sec. of Justice, Assoc. Justice of Court of Appeals; Assoc. Justice of Supreme Court 1954, Chief Justice and Chair. Presidential Electoral Tribunal 1966-73; Prof. of Law at several leading univs.; active in many local and int. orgs. engaged in the promotion of the rule of law; rep. of the Philippines at several int. confs.; Hon. D.C.L. (Univs. of Santo Tomás and the Philippines and St. Louis Univ.); Knight Grand Cross of Rizal. *Publications:* various lectures and papers, etc. *Leisure interests:* golf, yoga. *Address:* Integrated Bar of the Philippines, 915 Quezon Boulevard Ext., Quezon City; 18 Kitanlad, Quezon City, Philippines (Home). *Telephone:* 97-23-88 (Office); 62-32-73 (Home).

CONCHON, Georges; French author, screenwriter and journalist; b. 9 May 1925, Saint-Avit; s. of Gilbert Conchon and Marcelle Gancille; m. Yvonne Message 1946; one d.; ed. Lycée Henri IV, Paris, and Univ. de Paris à la Sorbonne; Sec. of Debates, Assemblée de l'Union française 1947-52, Divisional Head 1952-58; Sec.-Gen. Parl. Central African Repub. 1959; Sec. of Debates at the Senate 1960-; Oscar Black and White in Colour 1976, Prix des Libraires de France 1960, Prix Goncourt 1964. *Publications:* novels: Les grandes lessives 1953, Les honneurs de la guerre 1955, La corrida de la victoire 1959, L'état sauvage 1964, L'apprenti gaucher 1967, Nous, la gauche, devant Louis-Napoléon 1969, L'amour en face 1972; play: Pourquoi pas vamos 1965, Le sucre 1977; films: 7 morts sur ordonnance 1975, Black and White in Colour 1976, L'état sauvage, Judith Therpauve, Le sucre 1978. *Address:* 132 rue de Rennes, 75016 Paris, France. *Telephone:* 222-89-96.

CONDLIFFE, John Bell, K.C.M.G., M.A., D.SC., LL.D., LITT.D.; American economist; b. 23 Dec. 1891, Melbourne, Australia; s. of Alfred Bell and Margaret (Marley) Condliffe; m. Olive Grace Mills 1916; two s. one d.; ed. Canterbury Coll. of New Zealand, Gonville and Caius Coll., Cambridge; Prof. of Econs., Canterbury Coll. 1920-26; Research Sec. Inst. of Pacific Relations, Hawaii 1927-31; Visiting Prof. of Econs., Univ. of Michigan 1930-31; mem. Economic Intelligence Service L.N. 1931-37; Prof. of Commerce, London Univ. 1937-39; Prof. of Econs., Univ. of Calif. 1940-58; Adviser Indian Nat. Council of Applied Economic Research 1959-60; Sr. Economist Stanford Research Inst. 1961-67; Erskine Fellow, Univ. of Canterbury 1973; Assoc. Dir. Div. Econs. and History, Carnegie Endowment for Int. Peace 1943-47; mem. Royal Econ. Soc., American Econ. Asscn., Econ. Soc. of Australia and N.Z.; Fellow A.A.A.S. 1953; Howland Memorial Prize, Yale Univ. 1939; Wendell Wilkie Prize 1950; Gold Cross, Royal Order of Phoenix (Greece), Hon. K.C.M.G. 1977. *Publications:* New Zealand in the Making 1930 (revised 1958), Problems of the Pacific 1927, 1929, China Today—Economic 1932, World Economic Survey 1931-37, Reconstruction of World Trade 1940, Agenda for a Post-War World 1942, Commerce of Nations 1950, The Welfare State in New Zealand 1959, The Development of Australia 1963, Foresight and Enterprise 1965, The Economic Outlook for New Zealand 1969, Te Rangi Hiroa: The Life of Sir Peter Buck 1972, Defunct Economists 1974. *Leisure interest:* golf. *Address:* 1641 Canyonwood Court No. 1, Walnut Creek, Calif. 94595, U.S.A.

CONFALONIERI, H.E. Cardinal Carlo; Vatican ecclesiastic; b. 25 July 1893, Seveso; ordained priest 1916; fmr. Private Sec. to Pope Pius XI; Archbishop of Aquila 1941-50; Titular Archbishop of Nicopolis al Nesto and Sec. Sacred Congregation of Seminaries and Univs. 1950-58; created Cardinal 1958; Archpriest of Liberian Patriarchal Basilica; Prefect Sacred Consistorial Congregation 1961-; mem. Sacred Congregations for the Doctrine of Faith, Oriental Churches, Clergy, De Propaganda Fide, Saints, Divine Cult, Catholic Educ., Council for Public Affairs. *Publications:* Pio XI visto da vicino 1957, Decennio Aquilano esperienze pastorali 1967. *Address:* Via Rusticucci 13, Rome, Italy.

CONN, Jerome W., M.D.; American professor of medicine; b. 24 Sept. 1907, New York; s. of Joseph H. Conn and Dora Kobrin; m. Elizabeth Stern 1932; one s. one d.; ed. Rutgers Univ. and Univ. of Michigan Medical School; Instructor of Internal Medicine, Univ. of Mich. Medical School 1935-38, Asst. Prof. 1938-44, Head of Div. of Endocrinology and Metabolism and Dir. of Metabolism Research Unit 1943-, Assoc. Prof. 1944-50, Prof. of Internal Medicine 1950-68, Louis Harry Newburgh Distinguished Univ. Prof. of Internal Medicine 1968-74; Prof. Emer. 1974-; Veterans' Admin. Distinguished Physician 1974-77; discoverer of Primary Aldosteronism, known as Conn's Syndrome; Hon. F.A.C.S.; mem. American Coll. of Physicians, Nat. Acad. of Sciences, U.S.A., Inst. of Medicine, U.S.A., Nat. Acad of Medicine, Argentina; Hon. Sc.D. (Rutgers Univ.); numerous U.S. and foreign awards, including Modern Medicine Award and Citation 1957, Banting Medal of American Diabetes Assn. 1958, Gordon Wilson Medal of American Clinical and Climatological Assn. 1962, John Phillips Memorial Award of American Coll. of Physicians 1965, Gold Medal of Int. Soc. for Progress in Internal Medicine, Buenos Aires 1969, Gairdner Int. Award 1969, Stouffer Int. Award 1971. *Publications:* 428, and contribs. to 17 books, on metabolism, endocrinology and hypertension. *Leisure interests:* tennis, squash, fishing, writing. *Address:* Admiralty Point, 2369 Gulf Shore Boulevard North, Naples, Fla. 33940, U.S.A. *Telephone:* 262-1893.

CONNALLY, John Bowden, Jr., LL.B.; American lawyer and politician; b. 27 Feb. 1917, Floresville, Texas; s. of John B. Connally and Lela Wright Connally; m. Idanell Brill 1940; two s. one d.; ed. Univ. of Texas; served in U.S. Navy 1941-46; fmr. exec. in oil, oilfield services, radio and television, carbon, ranches, insurance, New York Cen. Railroad; Sec. of the Navy Jan.-Nov. 1961; Gov. of Texas 1963-69; Senior Partner, Vinson, Elkins, Houston (law firm) 1969-70, 1972-; Sec. of the Treasury 1971-72; Dir. First City Bank Corpn. of Texas 1972-, Falconbridge Nickel Mines Ltd. 1973-, First City Nat. Bank of Floresville 1975-, Justin Ind. 1975-, Dr. Pepper Co. 1977-, Santa Gertrudis Breeders Int. 1977-, The Methodist Hospital 1977-, Continental Airlines Inc. 1978-; mem. and trustee Andrew W. Mellon Foundation 1973-; mem. Advisory Cttee. on Reform of Int. Monetary System 1973-; Vice-Chair. Houston Chamber of Commerce 1975-; Adviser to Pres. June-July 1973; Democrat until 1973, Republican 1973-. *Address:* c/o Vinson and Elkins, First City National Bank Building, Houston, Tex., U.S.A. *Telephone:* 713-651-2100 (Office).

CONNELLY, Brig.-Gen. Alan Burton, C.B.E., C.D., B.ENG.; Canadian army officer, engineer and international civil servant; b. 25 March 1908, Amble, Northumberland, England; s. of Thomas Connelly and Janet Burton; m. 1st Margaret Woodbury Forbes 1937, one s. one d.; m. 2nd Mary Evelyn Sharpe (née Brock) 1974; ed. Calgary Normal School, Royal Mil. Coll. of Canada, Nova Scotia Tech. Coll., McGill Univ. and School of Mil. Engineering, Chatham, England; Canadian Army 1931-53; Chief Engineer, 1 Canadian Corps 1943-44; Commdr. "B" Group and Canadian Reinforcement and Repatriation Units 1944-46; Commdr. Canadian Troops, N.W. Europe 1946; Deputy Adjutant-Gen. 1946-48; Commdr. Northwest Highway System 1948-50; Commdr. Saskatchewan Area and GOC Prairie Command 1950-51; Commdr. Canadian Mil. Mission, Far East 1951-52; Gen. Supt. Dufresne Eng., Montreal 1953-55; Vice-Pres. Mannix Construction and Empire Devt. 1955-57; Chief, Eng. Div., Dept. of Northern Affairs and Nat. Resources 1958-62; Dir. of Capital Assistance, External Aid Office, and Canadian Int. Devt. Agency 1963-69; Dir. Colombo Plan Bureau 1969-73; Adviser Ministry of Finance and Planning, Burma 1974-75; Vice-Pres. Eng. Inst. of Canada 1967-68; Eng. Medal, Assn. of Professional Engineers of Ont. 1969. *Leisure interests:* drawing, swimming, golf, tennis, music, books, antiques. *Address:* 360 Lake St. Louis Road, Ville de Lery, Quebec, Canada. *Telephone:* 514-692-6563.

CONNELLY, Marc; American dramatist; b. 13 Dec. 1890; ed. Trinity Hall, Washington; fmr. Pres. Authors' League of America, Nat. Inst. of Arts and Letters; fmr. Prof. of Playwriting, Yale Univ.; Hon. Litt.D. (Bowdoin); Pulitzer Prize, O. Henry Award 1930. *Publications:* The Green Pastures, The Wisdom Tooth, A Souvenir from Qam 1965, Voices off Stage 1968; co-author Beggar on Horseback, Dulcy, Merton of the Movies, To the Ladies, The Farmer Takes a Wife, Hunter's Moon 1958, A Stitch in Time 1977 (plays); Helen of Troy N.Y. (musical comedy). *Address:* 25 Central Park West, New York, N.Y. 10023; and Players' Club, New York, N.Y., U.S.A.

CONNELLY, Michael Aynsley, B.COM., F.C.A., C.M.A.; New Zealand politician; b. 21 Feb. 1916; ed. Univ. of Otago; served World War II; M.P. for Riccarton 1956-69, for Wigram 1969-78, for Yaldhurst 1978-; served on numerous parl. cttees.; fmr. Christchurch City Councillor; fmr. Pres. Canterbury Savings Bank; Minister of Police 1972-75, of Customs 1972-74, Assoc. Minister of Finance 1972-74; Minister of Statistics 1974-75, of Works and Devt. 1975, in charge of Earthquake and War Damage Comm. 1975; Spokesman for Social Welfare 1975-78, for Foreign Affairs, Defence, Police 1978-; Chair. Nat. Roads Bd. 1975, Nat. Water and Soil Conservation Authority 1975-; fmr. mem. Lincoln Coll. Council; Pres. Adult Cerebral Palsy Soc.; fmr. Chair. Exec. Cttee., Canterbury Provincial Bldgs. Board; Labour. *Address:* Parliament Buildings, Wellington; Corner of Yaldhurst and Pound Roads, Yaldhurst, Christchurch 5RD, New Zealand (Home).

CONNERY, Sean; Scottish actor; b. 25 Aug. 1930; s. of Joseph and Euphamia Connery; m. 1st Diane Cilento 1962 (diss. 1974), 2nd Michelin Boglio Roquebrun 1975; served in Royal Navy; Dir. Tantallon Films Ltd. 1972-. *Films include:* No Road Back 1955, Time Lock 1956, Action of the Tiger 1957, Another Time, Another Place, Hell Drivers, 1958, Darby O'Gill and the Little People 1959, Tarzan's Greatest Adventure 1959, On the Fiddle 1961, The Longest Day 1962, The Frightened City 1962, Woman of Straw 1964, Marnie 1964, The Hill 1965, A Fine Madness 1966, Shalako 1968, The Molly Maguires 1968, The Red Tent 1969, The Anderson Tapes 1970, The Offence 1973, Zardoz 1974, Murder on the Orient Express 1974, Ransom 1974, The Wind and the Lion 1975, The Man Who Would Be King 1975, Robin and Marian 1976, A Bridge Too Far 1977, The Great Train Robbery 1978; as James Bond in Dr. No 1963, From Russia with Love 1964, Goldfinger 1965, Thunderball 1965, You Only Live Twice 1967, Diamonds are Forever 1971. *Address:* c/o ICM, 22 Grafton Street, London, W.1. England.

CONNICK, Robert Elwell, B.S., PH.D.; American professor of chemistry; b. 29 July 1917, Eureka, Calif., s. of Arthur E. Connick and Florence Robertson Connick; m. Frances Spieth 1951; two s. four d.; ed. Univ. of California; Prof. of Chem. Univ. of Calif., Berkeley 1952-, Chair. Dept. of Chem. 1958-60, Dean of Coll. of Chem. 1960-65, Vice-Chancellor for Academic Affairs 1965-67, 1969-71; mem. Nat. Acad. of Sciences. *Publications:* numerous articles in Journal of American Chem. Soc., Journal of Chem. Physics, Inorganic Chem., etc. *Leisure interest:* Indian petroglyphs. *Address:* Department of Chemistry, University of California, Berkeley, Calif. 94720 (Office); 50 Marguerita Road, Berkeley, Calif. 94707, U.S.A. (Home). *Telephone:* 524-4693 (Home).

CONNOLLY, Hon. John Joseph, P.C., O.B.E., Q.C., PH.D., LL.D.; Canadian lawyer and politician; b. 1906; ed. Ottawa Separate Schools, Univ. of Ottawa, Queen's Univ., Kingston, Ontario, Univ. of Notre Dame, South Bend, Indiana, U.S.A., and Univ. of Montreal; mem. Bar of Province of Ontario and Province of Quebec; Exec. Asst. to Minister of Nat. Defence for Naval Services 1941-45; now Counsel to Honeywell Wotherspoon; Pres. Nat. Liberal Fed. 1961-64; Senator from Ontario 1953-; Minister without Portfolio and Leader of Govt. in Senate 1964-68; Past Pres. Nat. Liberal Fed. of Canada; Pres. Gen. Council Commonwealth Parl. Assn. 1965-66, mem. of Working Party and Exec. Cttee. 1966-70; Liberal. *Address:* The Senate, Ottawa, Ont., Canada.

CONNOR, John Thomas, J.D., A.B.; American business executive and government official; b. 3 Nov. 1914; Syracuse, N.Y.; s. of Michael J. and Mary Sullivan Connor; m. Mary O'Boyle 1940; two s. one d.; ed. Holy Rosary High School, Syracuse, N.Y., Holy Rosary Grammar School, Harvard Law School and Syracuse Univ.; fmrly. assoc. with law firm Cravath, de Gersdorff, Swaine and Wood; General Counsel, Office of Scientific Research and Devt. 1942-44; U.S. Marine Corps 1944-45; Counsel, Office of Naval Research, later Special Asst. to U.S. Sec. of Navy 1945-47; Gen. Attorney, Merck & Co. (pharmaceuticals) 1947, Pres. 1955-65; U.S. Sec. of Commerce 1965-66; Pres. Allied Chemical Corpn. 1967-69, Chair. of Bd., Chief Exec. Officer and Dir. 1969-; Dir., Gen. Motors Corpn., Chase Manhattan Bank, Chase Manhattan Corpn., Warner-Lambert Co., American Broadcasting Cos., Inc.; numerous hon. degrees. *Address:* P.O. Box 3000R, Morristown, N.J., U.S.A.

CONNOR, Ralph, B.S., PH.D.; American chemist; b. 12 July 1907, Newton, Ill.; s. of Stephen A. and Minnie (Ross) Connor; m. Margaret Raef 1931; one s.; ed. Univs. of Illinois and Wisconsin; Asst. Prof., Assoc. Prof. of Chem., Univ. of Pa. 1935-41; Technical Aide, Section Chief, and Chief of Div. 8, Nat. Defense Research Cttee. of Office of Scientific Research and Devt. 1941-45; Assoc. Dir. of Research, Rohm & Haas Co. 1945-48, Vice-Pres. and Dir. 1948-73 (in charge of Research 1948-70), Chair. of Bd. 1960-70, Chair. of Exec. Cttee. 1970-73; mem. Bd. of Dirs. American Chemical Soc. 1954-65, Chair. 1956-58; mem. Bd. of Dirs. Ursinus Coll. 1971-; Hon. D.Sc. (Philadelphia Coll. of Pharmacy and Science, Univ. of Pa., Polytechnic Inst. of Brooklyn), Hon. LL.D. (Lehigh Univ.); several medals. *Address:* P.O. Box 1975, Sun City, Ariz. 85372, U.S.A. (Home).

CONOMBO, Dr. Joseph Issoufou; Upper Volta politician; b. 9 Feb. 1917, Kombissiri; ed. Ecole Primaire et Supérieure, Bingerville, Ecole Normale "William Ponty", Dakar, Senegal. Participated in World War II; Co-founder of Union Voltaique 1946; medical practitioner 1946-48; Consultant to Union Française 1948-51; Del. to Assemblée Nat. in Paris 1951-59; mem. Nat. Assembly of Togo 1952-; Mayor of Ouagadougou 1960-65; Dir.-Gen. for Public Health 1966-68; Minister of Foreign Affairs 1971-73; Prime Minister July 1978-; mem. Rassemblée Démocratique Africaine 1959-; Pres. Upper Volta Red Cross Soc. 1961-. *Address:* Office du Premier Ministre, Ouagadougou, Upper Volta.

CONRAD, Anthony Lee; American business executive; b. 3 May 1921, Norwood, Mass.; s. of Charles W. and Flora (Tandy) Conrad; m. 1st Katherine W. Wolfe 1943 (died 1968), two s. one d.; m. 2nd Nancy R. Morrison 1969; ed. Phillips Exeter Acad. and Lafayette Coll.; Pres. RCA Service Co. 1960-68; Vice-Pres. Educ. Systems, RCA Corpn. 1968-69, Exec. Vice-Pres., Services 1969-71, Pres. and Chief Operating Officer RCA Corpn. 1971-76, Chief Exec. Jan.-Sept. 1976, Chair. June-Sept. 1976; Dir. Banquet Foods Corpn., Coronet Industries Inc., Cushman & Wakefield Inc., RCA Corpn., The Hertz Corpn., Random House Inc., RCA Global Communications Inc., ICI Americas, Chesebrough-Pond's Inc.; Vice-Chair. Lafayette Coll. Board of Trustees; Hon. D.Sc. (Florida Inst. of Technology) 1970. *Address:* c/o RCA Corpn., 30 Rockefeller Place, New York, N.Y. 10020, U.S.A.

CONSAGRA, Pietro; Italian sculptor; b. 4 Oct. 1920, Mazara; two s. two d.; ed. Acad. of Fine Arts, Palermo; one-man shows: Rome 1947, 1949, 1951, 1959, 1961; Milan 1958, 1961; Venice 1948; Brussels 1958; Paris 1959; Zürich 1961; São Paulo Bienal 1955, 1959; Venice Biennale 1956, 1960, New York 1962, Buenos Aires 1962, Boston 1962; Works in following museums: Tate Gallery, London; Nat. Museum and Middleheim Park, Antwerp; Museums of Modern Art, São Paulo, Paris, Rome, New York, Buenos Aires, Caracas, Zagreb, Helsinki; Guggenheim Museum, New York; Art Inst., Chicago; Carnegie Inst., Pittsburgh; Inst. of Fine Arts, Minneapolis and Houston; Grand Prize for Sculpture, Venice Biennale 1960. *Address:* c/o Galleria Nazionale d'Arte Moderna, viale delle Belle Arti 131, 00197, Rome; Via Cassia 1162, Rome, Italy. *Telephone:* 6995119.

CONSALVI, Simón Alberto; Venezuelan diplomatist; b. 7 July 1929; m.; two c.; ed. Univ. Central de Venezuela; mem. Nat. Congress 1959-64, 1974-; Amb. to Yugoslavia 1961-64; Dir. Cen. Office of Information for the Presidency 1964-67; Pres. Nat. Inst. of Culture and Art 1967-69; Dir. Nat. Magazine of Culture; Int. Editor El Nacional newspaper 1971-74; Minister of State for Information 1974; Perm. Rep. to UN 1974-77; Minister of Foreign Affairs 1977-79; mem. Nat. Congress Foreign Relations Comm. *Address:* Ministerio de Relaciones Exteriores, Casa Amoville, esq. Principal, Caracas, Venezuela.

CONSOLO, Federico; Italian international bank official; b. 18 March 1906, Palermo; m. Rysia Consolo-Toeplitz; ed. in Milan and London, and Univs. of Cambridge and Rome; with Montecatini S.p.A. and Pirelli S.p.A. 1928-43; liaison between Italian Govt. and Allied Comm. and subsequently UNRRA, Rome 1945-47; with Int. Bank for Reconstruction and Devt., rising to Asst. Dir., W. Hemisphere Dept. 1947-58; Dir.-Gen. Special Adviser to Comm., EURATOM, Brussels 1958-64; Special Rep. for UN Orgs., Int. Bank for Reconstruction and Devt. 1964-71. *Address:* c/o International Bank for Reconstruction and Development, 1818 H. Street, N.W., Washington, D.C. 20433, U.S.A.

CONSTANTINE XII; former King of the Hellenes; b. 2 June 1940; m. Princess Anne-Marie of Denmark 1964; two s. one d.; ed. Anavryta School and Law School, Athens Univ.; Military Training 1956-58; visited United States 1958, 1959; succeeded to throne March 1964; left Greece Dec. 1967; deposed June 1973; Monarchy abolished by Nat. Referendum Dec. 1974; Gold Medal, Yachting, Olympic Games, Rome 1960. *Address:* 4 Linnell Drive, Hampstead Way, London, N.W.11, England.

CONSTANCIO, Vitor; Portuguese banker; b. 12 Oct. 1943, Lisbon; s. of António Francisco Constâncio and Ester Ribeiro Vieira Constancio; m. Maria Jose Pardana Constâncio 1968; one s. one d.; ed. Instituto Superior de Ciências Económicas e Financeiras, Lisbon; Asst. Prof. Faculty of Econs. 1965; Dir. of Global Planning Studies, Planning Research Centre 1973; Sec. of State for Planning 1974-75; Head of Econ. Research Dept., Banco de Portugal 1975; Sec. of State for Budget and Planning 1975-76; mem. Parl. and Chair. Parl. Comm. of Econ. and Finance 1976; Pres. of Comm. formed to negotiate with EEC 1976; Vice-Gov. Banco de Portugal 1977-; Pres. Comm. for European Integration 1977; Minister of Finance and Planning 1978. *Address:* Banco de Portugal, 148 rua de Comércio, Lisbon 2, Portugal. *Telephone:* 36 29 31.

CONTE, Arthur; French journalist, politician and broadcasting executive; b. 31 March 1920, Salses, Pyrénées-Orientales; s. of Pierre Conte and Marie-Thérèse Parazols; m. Colette Lacassagne 1951; one s. one d.; ed. Montpellier Univ.; foreign leader writer, Indépendant de Perpignan 1945; later worked for Paris Match; subsequently leader-writer for Les Informations and contributor

to Le Figaro, Historia, Les Nouvelles Littéraires; Sec. Socialist Party Fed. for Pyrénées-Orientales; Deputy to Nat. Assembly 1951-62; Sec. of State for Industry and Commerce 1957; Deputy to Nat. Assembly (U.D.R.) 1968-72; Mayor of Salses 1947-; Del. To Assembly of Council of Europe 1956-62; Pres. WEU Assembly 1961-62; Chair. and Dir.-Gen. ORTF 1972-73. *Publications:* La légende de Pablo Casals, Les étonnements de Mister Newborn, Les promenades de M. Tripoire, Les hommes ne sont pas des héros, La vigne sous le rempart, Yalta ou le partage du monde, Bandoung, tournant de l'histoire, Sans de Gaulle, Lénine et Staline, Les frères Burns, Hommes libres, L'épopée mondiale d'un siècle (5 vols.), Le premier janvier 1900, Le premier janvier 1920, Le premier janvier 1940, Le premier janvier 1960, 1979. *Leisure interest:* golf. *Address:* 94 avenue de Suffren, 75015 Paris, France. *Telephone:* 783. 23. 45.

CONTÉ, Sadiou, DR.MED.; Guinean surgeon and diplomatist; b. 1925; ed. Ecole William Ponty and Lycée, Dakar, Paris Univ. Medical Faculty; Asst. Surgeon Dakar hospitals 1957-58; Chief Surgeon, Ballay Hospital, Conakry 1959; Amb. to U.S.S.R. 1959-61, to U.S.A. 1961-63; Minister of Educ. 1963, of Justice 1967; now Prof. of Surgery and Chief Surgeon, Ignace Deen Hospital, Conakry. *Publications:* Surgical papers in French and African journals; Le noir et les cultures indo-européennes 1956, Réflexions sur la lymphadénie mésentérique 1957, Notre expérience de l'abord direct du mal de pott 1957, De la fausse rareté de la pathologie vésiculaire en Afrique 1957, Un cas d'exulcératio simplex et problèmes connexes 1958, La spondylodiscite melitococcique 1958, Au fil de la liberté (collected poems) 1966. *Address:* Hôpital Ignace Deen, Conakry, Guinea.

CONTEH, Abdulai Osman, LL.M., PH.D.; Sierra Leonean lawyer and politician; b. 5 Aug. 1945, Pepec; ed. Albert Acad., Freetown, London and Cambridge Univs., England; former Barr.-at-Law, Lincoln's Inn; State Counsel 1974-75; private law practice 1964-77; lecturer in law, Fourah Bay Coll., Univ. of Sierra Leone 1975-77; Sec.-Gen. Sierra Leone Bar Assn. 1975-76; Minister of Foreign Affairs May 1977-; Harold Porter Prize in Land Law, King's Coll., London Univ. *Address:* Ministry of Foreign Affairs, Freetown; P.O. Box 296, Freetown, Sierra Leone (Home).

CONTI, Luciano; Italian diplomatist; b. 29 Sept. 1917, Leghorn; m.; ed. Univ. of Siena; entered Diplomatic Service 1940; held successive diplomatic posts in Stockholm, Vienna, Denver (U.S.A.) 1943-50; Consul successively in Munich, Hamburg 1951-54; Head of Section, Cultural Affairs Directorate, Ministry of Foreign Affairs; Deputy Dir.-Gen. of Personnel, Ministry of Foreign Affairs 1958; Consul-Gen., Munich 1959-62; Amb. to Lebanon, concurrently accred. to Kuwait 1962-64, to Denmark 1964-68; Amb.-at-Large, Econ. Affairs Gen. Directorate, Ministry of Foreign Affairs 1968-73; Perm. Rep. to OECD 1973-78. *Address:* c/o Ministry of Foreign Affairs, Parnésina, Rome 00100, Italy.

CONWAY, Hugh Graham, C.B.E., M.A.; British mechanical engineer; b. 25 Jan. 1914, Vancouver, Canada; s. of George R. G. and A. E. Conway; m. Eva Gordon-Simpson 1937; two s.; ed. Merchiston Castle School, Edinburgh, and Univ. of Cambridge; aircraft industry 1936-; Chief Eng., then Man. Dir. Short Bros. and Harland Ltd., Belfast; Man. Dir. Bristol Siddeley Engines Ltd. 1964; Group Man. Dir. Rolls Royce Ltd. 1970; Dir. Rolls Royce (1971) Ltd. 1971; now engaged in consultancy; Deputy Chair. Design Council 1972-76; Pres. Inst. of Mech. Engs. 1967; mem. Decimal Currency Bd., generally credited with design of the 50p coin; Hon. D.Sc. *Publications:* several textbooks, books on Ettore Bugatti. *Leisure interest:* vintage motoring, especially Bugatti. *Address:* 33 Sussex Square, London, W.2, England. *Telephone,* 01-262 8136.

CONYERS, John, Jr., J.D.; American politician; b. 16 May 1929, Detroit, Mich.; s. of John and Lucy Simpson Conyers; unmarried; ed. Detroit public schools and Wayne Univ.; Legislative Asst. to Congressman J. Dingell 1958-61; Sr. partner, Conyers, Bell & Townsend 1959-61; Referee, Michigan workmens Compensation Dept. 1961-63; fmr. Gen. Counsel, Detroit Trade Union Leadership Council; mem. Advisory Council, Mich. Civil Liberties Union; Rep. from Michigan, U.S. Congress 1964-; Democrat; Hon. LL.D. (Wilberforce Univ.). *Publications:* Politics and the Black Revolution 1969, To Change the Course of History (in Many Shades of Black) 1969. *Leisure interests:* tennis, jazz. *Address:* 2444 Rayburn House Office Building, Washington, D.C. 20515, U.S.A.

COOBAR, Abdulmegid; Libyan politician; b. 1909; ed. Arabic and Italian schools in Tripoli, and privately; with Birth Registration Section, Tripoli Municipal Council and later its Section Head, Adviser on Arab Affairs for the Council 1943-44; resigned from Govt. Service 1944; mem. Nat. Constitutional Ass. 1950, and mem. its Cttee. to draft the Libyan Constitution; mem. of Parl. for Eastern Gharian 1952-55, Pres. of Parl. Ass. 1952-55; Deputy Prime Minister and Minister of Communications 1955-56; again elected for Eastern Gharian to the new Chamber of Deputies 1955, Pres. 1956; mem. of Council of Viceroy 1956; Deputy Prime Minister and Minister of Foreign Affairs 1957; Prime Minister 1957-60; concurrently Minister for Foreign Affairs 1958; Independence Award (1st Class). *Address:* Asadu el-Furat Street 29, Garden City, Tripoli, Libya.

COOK, Chauncey William Wallace; American food company executive (retd.); b. 22 June 1909; ed. Univ. of Texas, Columbia Univ. Graduate School of Business Admin.; Proctor and Gamble Co. 1931-42; Gen. Foods Corpn. 1942-74, Chief Engineer 1942-44, Div. Man. (Manufacturing and Engineering) 1944-46, Production Man. Maxwell House Div. 1946-51, Product Man., Instant Maxwell House Coffee 1951-52, Sales and Advertising Man., Maxwell House Div. 1953-55, Gen. Man., Maxwell House Div. and Vice-Pres. Gen. Foods 1955-59, Exec. Vice-Pres. (Operations) 1959-62, Pres. 1962-65, Pres. and Chief Exec. Officer 1965-66, Chair. and Chief Exec. 1966-73, Chair. 1973-74, Chair. Exec. Cttee. 1974-; Dir., Gen. Foods Corpn. 1960-, Whirlpool Corpn. 1962-, Chase Manhattan Bank 1963-74, AMF Inc. 1972-, Shell Oil Co. 1973-, Capital Nat. Bank (Austin, Texas) 1973-, Texas Commerce Bancshares, Inc. 1977-; Trustee Conf. Board, Univ. of Texas Devt. Board; mem. Business Council; served on various nat. food advisory bds. as chair.; several honorary degrees in Laws, Humane Letters and Engineering. *Address:* General Foods Corporation, 250 North Street, White Plains, N.Y. 10625 (Office); 1116 Challenger Street, Lakeway, Austin, Tex. 78734, U.S.A. (Home). *Telephone:* 914-683-4414.

COOK, Donald C., A.B., M.B.A., J.D., L.L.M; American public utility executive (retd.) and business consultant; b. 14 April 1909, Escanaba, Mich.; s. of Nelson Cook, Jr. and Edith Bryant; m. Winifred V. Carlsen 1943; one s.; ed. Univ. of Michigan and George Washington Univ. Law School; Securities and Exchange Comm. 1935-45; Exec. Asst. to Attorney-Gen. of U.S. 1945-46; Dir. Office of Alien Property, U.S. Dept. of Justice 1946-47; Partner, Cook & Berger (attorneys) 1947-49; Commr., Securities and Exchange Comm. 1949-50, Vice-Chair. 1950-52, Chair. 1952-53; Vice-Pres. American Electric Power Service Corpn. 1953-54, Dir. 1954-76, Exec. Vice-Pres. 1954-61, Pres. 1961-72, Chief Exec. Officer 1961-76, Chair. of Bd. 1972-76; Pres. American Electric Power Co. 1961-72, Dir. and Chief Exec. Officer 1961-76, Chair. of Bd. 1971-76, also Pres. and Chief Exec. Officer of subsidiaries until 1976; Dir. Amerada Hess Corpn., American Broadcasting Cos., General Dynamics Corpn., Lincoln Nat. Corpn.; Gen. Partner Lazard Frères and Co., Lincoln Nat. Life Insurance Co. *Leisure interests:* collector of Islamic Art, travel. *Address.* Lazard Frères and Co., One Rockefeller Plaza, New York, N.Y. 10020, U.S.A. *Telephone:* (212) 489-6600.

COOK, G(eorge) Bradford, J.D.; American lawyer and company executive; b. 10 May 1937, Lincoln, Neb.; s. of George B. Cook and Margaret Colman; m. Laura Shedd Armour 1966; one s. five d.; ed. Stanford Univ. and Univ. of Nebraska Law School; Partner, Winston & Strawn, Chicago, Ill. 1962-71; U.S. Securities and Exchange Comm. (SEC), Washington, D.C., Gen. Counsel 1971-72, Dir. Div. of Market Regulation 1972-73, Chair. March-May 1973 (resigned); Chair. of Bd. and Chief Exec. Officer Farragut Investments Inc. *Leisure interests:* skiing, hunting, fishing. *Address:* 4808 Rockwood Parkway, N.W., Washington, D.C. 20016; and Woman Lake, Longville, Minn. 56655, U.S.A. *Telephone:* 202-244-1240 and 218-363-2078 (Homes).

COOK, Mercer, PH.D.; American university professor and diplomatist; b. 30 March 1903, Washington; s. of William Cook and Abbie Mitchell; m. Vashti Smith 1929 (died 1969); two s.; ed. Amherst Coll., Univ. of Paris and Brown Univ.; Asst. Prof. of French, Howard Univ. 1927-36; Prof. of French, Atlanta Univ. 1936-43; Supervisor, English-Teaching, Haitian Schools 1943-45; Prof. of French, Howard Univ. 1945-58, 1966-70; Foreign Rep. American Soc. of African Culture 1958-60; Dir. African Programme, Congress for Cultural Freedom 1960-61; Amb. to Repub. of Niger 1961-64, to Senegal 1964-66, concurrently to Gambia 1965-66; Visiting Prof. Harvard Univ. 1970; Prof. Emer., Howard Univ. 1970-. *Publications:* Le noir 1934, Five French Negro Authors 1944, Education in Haiti 1949; trans. Senghor's African Socialism 1959, Mamadou Dia's African Nations and World Solidarity 1961; The Militant Black Writer in Africa and the U.S.A. 1969. *Address:* 4811 Blagden Avenue, N.W., Washington, D.C. 20011, U.S.A. *Telephone:* 291-7388.

COOK, Sir William Richard Joseph, Kt., K.C.B., F.R.S., M.SC.; British physical research scientist; b. 10 April 1905, Trowbridge; s. of John and Eva (Boolyer) Cook; m. Grace Purnell 1929; one d.; m. 2nd Gladys Allen 1939; one s. one d.; ed. Bristol Univ.; various

scientific posts in Research Establishments of War Office and Ministry of Supply 1928-47; Dir. of Physical Research, Admiralty 1947-50; Chief of the Royal Scientific Service 1950-54; Deputy Dir. Atomic Weapons Research Establishment, Aldermaston 1954-58; mem. for Eng. and Production of the U.K. Atomic Energy Authority 1958-59, for Devt. and Eng. 1959-61, for Reactors 1961-64; Deputy Chief Scientific Adviser, Ministry of Defence 1964-67; Chief Adviser (Projects and Research), Ministry of Defence 1968-70; Chair. Buck and Hickman Ltd. 1970-72, Dir. 1970-; Dir. Rolls-Royce (1971) Ltd. 1971-76, Consultant 1977-; Chair. Marconi Int. Marine Co. 1971-75; Dir. GEC-Marconi Electronics 1972-; Chair. Truscon Ltd. 1972-73; Hon. D.Sc. (Strathclyde) 1967, (Bath) 1975. *Address:* Adbury Springs, Newbury, Berks., England. *Telephone:* 0635 40409 (Home).

COOKE, (Alfred) Alistair; American (b. British) writer and broadcaster; b. 20 Nov. 1908, Manchester, England; s. of Samuel Cooke and Mary Elizabeth Byrne; m. 1st Ruth Emerson 1934, 2nd Jane White Hawkes; one s. one d.; ed. Jesus Coll., Cambridge, Yale and Harvard Univs.; Film Critic, BBC 1934-37; London Corresp. Nat. Broadcasting Co. 1936-37; Special Corresp. on American Affairs, The Times 1938-41; Special Corresp. BBC 1938-, wrote and narrated America: ▪ Personal History of the United States, BBC TV 1972-73; American feature writer, Daily Herald 1941-44; UN Corresp. The Manchester Guardian 1945-48 (now The Guardian), Chief Corresp. in U.S.A. 1948-72; Peabody Award 1952, 1972, Writers' Guild Award for best documentary 1972, Dimbleby Award 1973, four Emmy Awards (Nat. Acad. of TV Arts and Sciences, U.S.A.) 1973, Benjamin Franklin Award 1973, Hon. K.B.E. 1973; Hon. LL.D. (Edinburgh, Manchester), Hon. Litt.D. (St. Andrews) 1975. *Publications:* Garbo and the Night Watchmen (edited) 1937, Douglas Fairbanks 1940, A Generation on Trial: U.S.A. v. Alger Hiss 1950, One Man's America (English title Letters from America) 1952, Christmas Eve 1952, A Commencement Address 1954, The Vintage Mencken (edited) 1955, Around the World in Fifty Years 1966, Talk about America 1968, Alistair Cooke's America 1973, Six Men 1977. *Leisure interests:* golf, music, travel, photography. *Address:* Nassau Point, Cutchogue, Long Island, N.Y. 11935, U.S.A.

COOKE, James, B.S.; American retail executive; b. 13 Nov. 1909; ed. Wharton School, Univ. of Pennsylvania; Store Clerk, The Penn Fruit Co., Philadelphia 1927, rose to Vice-Pres. and Gen. Man. 1927-59, Pres. and Chief Exec. Officer 1964-71, Chair. and Chief Exec. 1971-; Pres. and Chief Exec. Officer Allied Supermarkets Inc. 1959-65; Dir. and Sec.-Treas. of Topco Assocs. Inc.; Dir. Nat. Assn. of Food Chains (Chair. 1963-64), Dir. Supermarket Inst.; Chair. Rolling Hill Hospital. *Address:* Cedarbrook Hill Apartments, Wyncote, Pa. 19095, U.S.A.

COOKE, H.E. Cardinal Terence James, M.A.; American ecclesiastic; b. 1 March 1921, New York; ordained to the Priesthood 1945; Sec. to Cardinal Spellman 1957; Vicar-Gen. Archdiocese of New York 1965; Archbishop of New York 1968-; created Cardinal 1969. *Address:* 1011 First Avenue, New York, N.Y. 10022, U.S.A. (Office).

COOL, Pierre Auguste; Belgian trade unionist; b. 28 Aug. 1903, St. Niklaas-Waas; s. of Petrus Cool and Clémentine Heirman; m. Maria Wieers 1925; one s. five d.; ed. Tech. High School St. Antonius, St. Niklaas-Waas, High School for Workers, Louvain; Engineer, St. Niklaas-Waas 1919-20, Eisden 1920-21; studied High School for Workers, Louvain 1921-24; Sec. Regional Union, Beringen 1924-25, Free Miners Union for Limburg 1925-28, for Flemish Region of Belgium 1928-32; Sec.-Gen. Fed. of Christian Trade Unions of Belgium 1932-46, Pres. 1946-68; fmr. Vice-Pres. Int. Fed. of Christian Trade Unions, Hon. Regent Nat. Bank of Belgium; Pres. Belgian Nat. Comm. for Peace and Justice; Vice-Pres. Belgian Campaign against Cancer; Minister of State; fmr. mem. Econ. and Social Cttee. of EURATOM; mem. Nat. Bd. for Scientific Policy; mem. of Bd., Catholic Univ. of Louvain; Grand Officier, Order of Leopold II (Belgium), Commdr. Order of St. Gregory the Great, Chevalier Légion d'honneur, Grosses Verdienstkreuz (Fed. Repub. of Germany), Commdr. Order of Orange-Nassau (Netherlands). *Address:* Ter Beuken, Park Ten Doorn, 1852 Beigem, Belgium. *Telephone:* 02/269-46-63.

COOL, Rodney Lee, B.S., M.A., PH.D.; American professor of high energy physics; b. 8 March 1920, Platte, S. Dak.; s. of George E. and Muriel Post Cool; m. Margaret E. Macmillan 1949; one s. three d.; ed. Univ. of S. Dak., Harvard Univ.; served Army Signal Corps (rose to Major) 1942-46; Brookhaven Nat. Lab., upton, research physicist 1949-59, Deputy Chair. High Energy Physics 1960-64, Asst. Dir. High Energy Physics 1964-66, Assoc. Dir. 1966-70; Prof. Experimental High Energy Physics, Rockefeller Univ. 1970-; mem. Stanford Linear Acceleration Center Policy Cttee. 1962-67, 1976-; Assoc. Univs. High Energy Panel, Assoc. Univs. Inc. 1963-70; Walker Panel Cttee. on Science and Public Policy, Nat. Acad. of Science 1964; Scientific Assoc. European Centre for Nuclear Research 1973-; mem. High Energy Physics Advisory Panel, Atomic Energy Comm. 1967-70; Programme Consultant, Div. of Particles and Fields, American Physical Soc. 1968-70; Chair. High Energy Advisory Cttee., Brookhaven Nat. Lab. 1967-70; mem. Nat. Science Foundation, Advisory Panel for Physics 1970-73; Chair. Physics Advisory Cttee. Nat. Accelerator Laboratory 1967-70; mem. Nat. Acad. of Science; mem. Review Fellow, American Physical Soc.; Trustee, Univs. Research assn., Inc. 1977-. *Publications:* Advances in Particle Physics (ed. with R. E. Marshak) 1968, and many research papers. *Address:* Rockefeller University, New York, N.Y. 10021; 450 East 63rd Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* (212) 360-1750 (Office).

COOLS, André; Belgian politician; b. 1 Aug. 1927, Flémalle-Grande, Liège; s. of Marcel Cools; m. Thérèse Josis 1948; one s. one d.; fmr. Sec.-Receiver of Public Assistance Comm.; Socialist Deputy from Liège 1958-; Mayor of Flémalle-Haute; Minister of the Budget 1968-71, 1972-73, of Econ. Affairs 1971-72; Deputy Prime Minister 1969-73; Co-Pres. Belgian Socialist Party 1973-; Chevalier Ordre de Léopold, Grand Officer Order of Merit (Italy). *Address:* 35 Rue Omer Maisin, Flémalle-Haute (Liège), Belgium.

COOMBS, Herbert Cole, A.C.F.A.A., PH.D.; Australian former banker; b. 24 Feb. 1906, Kalamunda, W. Australia; s. of the late F. R. H. Coombs and Rebecca M. Coombs; m. Mary A. Ross 1931; three s. one d.; ed. Univ. of Western Australia and London School of Economics and Political Science; Asst. Economist, Commonwealth Bank of Australia 1935; Economist to Commonwealth Treasury 1939; mem. Commonwealth Bank Bd. 1942; Dir. of Rationing 1942; Dir.-Gen. of Post-War Reconstruction 1943; Gov. Commonwealth Bank of Australia 1949-60; Chair. Commonwealth Bank Bd. 1951-60; Gov. Reserve Bank of Australia 1960-68, Chair. Reserve Bank Bd. 1960-68; Chair. Australian Council for Aboriginal Affairs 1968-; Chair. Australian Council for the Arts 1968-74; Chancellor Australian Nat. Univ. 1968-76; Consultant to the Prime Minister 1972-75; Chair. Royal Comm. on Australian Govt. Admin. 1974-76; Hon. Fellow, L.S.E.; Visiting Fellow, Centre for Resource and Environmental Studies, Australian Nat. Univ. 1976-; Hon. LL.D. (Melbourne, Sydney and Australian Nat. Univs.), Hon. D.Litt. (Western Australia). *Publication:* Other People's Money 1971. *Leisure interests:* golf, theatre, squash. *Address:* P.O. Box E223, Canberra, A.C.T. 2600 (Office); 119 Milson Road, Cremorne, N.S.W. 2090, Australia (Home). *Telephone:* 062-474544 (Office); 90-2866 (Home).

COOMBS, Philip H.; American economist and educator; b. 15 Aug. 1915, Holyoke, Mass.; s. of Chas and Nellie Coombs; m. Helena Brooks 1941; one s. one d.; ed. Holyoke Public Schools, Amherst Coll., Univ. of Chicago and Brookings Inst.; Instructor in Econs., Williams Coll., Mass. 1940-41; Economist, Office of Price Admin. 1941-42; Econ. Adviser, Office of Strategic Services 1942-45; Econ. Adviser to Dir. of Office of Econ. Stabilization 1945-46; Deputy Dir. Veterans Emergency Housing Program 1946-47; Prof. of Econs., Amherst Coll. 1947-49; Exec. Dir. President's Materials Policy Comm. (Paley Comm.) 1951-52; Sec. and Dir. of Research, Fund for Advancement of Educ. (Ford Foundation) 1952-61, Program Dir., Educ. Div., Ford Foundation 1957-61; Asst. Sec. of State for Educational and Cultural Affairs, Dept. of State 1961-62; Fellow Council on Foreign Relations 1962-63; Dir. Int. Inst. for Educational Planning (UNESCO), Paris 1963-68: Dir. of Research 1969-70; Co-founder Center for Educational Enquiry 1970; Vice-Chair. Int. Council for Educational Devt. 1970-; Faculty mem. Inst. of Social and Policy Studies, Yale Univ. 1970-72; official numerous educational orgs.; Hon. L.H.D. (Amherst Coll.), LL.D. (Brandeis Univ. and Monmouth Coll.). *Publications:* The Fourth Dimension of Foreign Policy 1964, Education and Foreign Aid 1965, The World Educational Crisis—A Systems Analysis 1968, Managing Educational Costs 1972, New Paths to Learning: for Rural Children and Youth 1973, Attacking Rural Poverty: How Nonformal Education Can Help 1974, Education for Rural Development: Cases Studies for Planners 1975. *Leisure interests:* sailing, fishing, swimming, reading, touring, house repairs, community service. *Address:* International Council for Educational Development, Box 217, Essex, Conn. 06426 (Office); River Road, Essex, Conn. 06426 U.S.A. (Home).

COON, Carleton Stevens, B.A., M.A., PH.D.; American anthropologist; b. 23 June 1904, Wakefield, Mass.; s. of John and Bessie Coon; m. 1st Mary Goodale 1927; m. 2nd Lisa Dougherty 1945; two s.; ed. Phillips Acad., Andover, Harvard Coll., and Harvard Univ.; Instructor and later Assoc. Prof. Harvard 1934-41; Assoc. Prof. and later Prof. Harvard 1945-48; Prof. and Curator Univ. of Pa. 1948-63, Research Curator 1963-; Research Assoc., Peabody Museum,

Harvard 1968-, Lecturer Harvard 1969-; expeditions to Morocco 1924-28, 1962, Albania 1929-30, Ethiopia, Yemen and Aden Protectorate 1933-34, Iraq 1948-49, Iran 1948-49, 1951, Afghanistan 1954, Syria 1955, Japan and India 1956-57, S. Chile (Alakaluf Indians) 1959, Sierra Leone 1965, Chad, Cameroon and Libya 1966-67; mem. Nat. Acad. of Sciences 1955; served in Second World War in diplomatic and mil. posts 1942-45; Legion of Merit; hon. mem. Asscn. de la Libération Française; Wenner-Gren Foundation Medallist 1951, Gold Medal of Philadelphia Athenaeum for book The Origin of Races 1963, Gold Medal, Harvard Travellers' Club 1972. *Publications include:* Measuring Ethiopia 1935, The Races of Europe 1939, Southern Arabia 1943, Principles of Anthropology (with E. D. Chapple) 1942, A Reader in General Anthropology 1948, Races (with S. M. Garn and J. B. Birdsell) 1949, The Mountains of Giants 1950, Caravan 1951, 1958, Cave Explorations in Iran 1951, The Story of Man 1954, The Seven Caves 1957, The Origin of Races 1962, The Living Races of Man 1965, Yengema Cave Report 1968, The Hunting Peoples 1971, Racial Aptitudes 1979. *Leisure interests:* forestry, boating. *Address:* 207 Concord Street, Gloucester, Mass. 01930, U.S.A. *Telephone:* 617-283-1612.

COONEY, Patrick, LL.B.; Irish solicitor and politician; ed. Castleknock Coll., Univ. Coll., Dublin; Fine Gael M.P. for Longford and Westmeath 1970-77; Minister of Justice 1973-77; Senator 1977-. *Address:* Leinster House, Kildare Street, Dublin 2, Ireland.

COOPER, Charles Arthur, PH.D.; American economist; b. 23 Dec. 1933, Chicago, Ill.; s. of Arthur Shires and Elizabeth Burton Greenebaum; m. Janis Starr 1966; two d.; ed. Swarthmore Coll., Pennsylvania, Massachusetts Inst. of Tech., Russian Research Center of Harvard Univ.; Asst. to the Chair. and Economist, Rand Corpn. 1961-63, Economist 1963-66, 1968-70; Econ. Adviser to Special Asst. to the Pres. 1966-67; Assoc. Dir. and Econ. Counsellor, Agency for Int. Devt. (AID) Saigon 1967-68; Minister-Counsellor for Econ. Affairs, U.S. Embassy, Saigon 1970-73; Deputy Asst. to Pres. for Int. Econ. Affairs, Nat. Security Council 1973-74; Asst. Sec. of Treasury for Int. Affairs 1974; Exec. Dir. for U.S.A., IBRD, IDA, IFC 1975-; Deputy Man., Public Affairs Dept.; Man. Exxon Corpn. 1976-; AID Superior Honor Award 1968; U.S. State Dept. Distinguished Honor Award 1973. *Leisure interests:* skiing, tennis. *Address:* Room 4658B, Exxon Corporation, 1251 Avenue of Americas, New York, N.Y. 10020 (Office); 360 North Wilton Road, New Canaan, Conn. 06840, U.S.A. (Home). *Telephone:* (212) 398-2804 (Office); (203) 966-5901 (Home).

COOPER, James Lees; British journalist; b. 6 March 1907; ed. Darwen Grammar School, Lancs.; articled journalist, Darwen News, later reporter Ashton-under-Lyne, Allied Newspapers, Manchester, Daily Express, London; War Corresp. 1941-45; Daily Express Staff Correspondent, Canada 1947-55, Head, New York Bureau 1955-57; Organizer, Overseas Edition, The Globe and Mail, Toronto 1958, Asst. to Editor and Publr., Canada 1959-63, Vice-Pres., Editor-in-Chief 1963-74, Publr. 1965-74; Dir. The Globe and Mail Ltd., Imperial Trust, Montreal; Chair. Canadian Section Commonwealth Press Union; Trustee, Toronto Gen. Hospital. *Address:* 140 King Street West, Toronto 1, Ont., Canada. *Telephone:* 368-7851.

COOPER, John Sherman, A.B., LL.D.; American lawyer and politician; b. 23 Aug. 1901, Somerset, Ky.; s. of John Sherman and Helen (Tartar) Cooper; m. Lorraine R. Shevlin 1955; ed. Yale and Harvard Univs. and Univ. of Kentucky.; mem. Lower House kentucky State Legislature 1928-30; Judge Pulaski County, Ky. 1930-38; served army 1942-46; Circuit Judge 28th Judicial District, Kentucky 1945-51; Senator from Kentucky 1946-48, 1952-54; with law firm, Gardner, Morrison & Rogers, Washington 1949-51; Amb. to India and Nepal 1955-56; Republican Senator from Kentucky 1956-73; Amb. to German Democratic Repub. 1974-76; practising lawyer 1973-; mem. counsel Covington & Burling attorneys, Washington 1973-74, 1976-; Rapporteur for Mil. Cttee. of NATO Parliamentarians Conf. 1966-67, 1967-68; mem. Bd. of Trustees Univ. of Kentucky 1935-46, Yale Univ. Council 1960-65; mem. American Bar Asscn.; Bronze Star Medal for Services in Second World War; Hon. degrees from many American univs. *Address:* 503 N. Main Street, Somerset, Ky. 42501, U.S.A. (Home).

COOPER, Joseph, M.A., A.R.C.M.; British pianist and lecturer; b. 7 Oct. 1912; s. of Wilfrid Needham and Elsie (Goodacre) Cooper; m. 1st Jean Greig 1947 (died 1973); m. 2nd Carol Borg 1975; ed. Clifton Coll. (music scholarship), Keble Coll., Oxford (organ scholarship), studied piano under Egon Petri 1937-39; served in Royal Artillery 1939-46; solo pianist début, Wigmore Hall 1947; concerto début, Philharmonia Orchestra 1950; BBC début, Promenade Concerts, Royal Albert Hall 1953; tours specializing in lecture recitals in British Isles, Europe, Africa, India, Canada; Chair. BBC TV programme Face the Music; Liveryman, Worshipful Co. of Musicians 1963-; mem. Music Panel of Arts Council and Chair. piano sub-cttee. 1966-71; Trustee Countess of Munster Musical Trust 1975-; Gov. Clifton Coll.; Ambrose Fleming Award, Royal TV Soc. 1971. *Publications:* Hidden Melodies 1975, Arrangement of Vaughan Williams Piano Concerto for 2 pianos (in collaboration with composer); numerous recordings. *Leisure interests:* walking, church architecture. *Address:* Trocks Mill Cottage, Mill Hill, Barnes Common, London, S.W.13, England. *Telephone:* 01-876 8529.

COOPER, Leon N., D.SC., PH.D.; American professor of physics; b. 28 Feb. 1930, New York; s. of Irving Cooper and Anna Zola; m. Kay Anne Allard 1969; two d.; ed. Columbia Univ.; mem. Inst. for Advanced Study 1954-55; Research Assoc., Univ. of Ill. 1955-57; Asst. Prof., Ohio State Univ. 1957-58; Assoc. Prof. Brown Univ. 1958-62, Prof. 1974, Thomas J. Watson, Sr. Prof. of Science 1974–; Co-Dir. Center for Neural Science; Visiting Lecturer, Varenna, Italy 1955; Visiting Prof., Brandeis Summer Inst. 1959, Bergen Int. School of Physics, Norway 1961, Scuola Internazionale Di Fisica, Erice, Italy 1965, L'Ecole Normale Supérieure, Centre Universitaire Int., Paris 1966, Cargèse Summer School 1966, Radiation Lab., Univ. of Calif., Berkeley 1969, Faculty of Sciences, Quai St. Bernard, Paris 1970, 1971, Brookhaven Nat. Lab. 1972; Consultant for various industrial and educational orgs.; Nat. Science Foundation Postdoctoral Fellow 1954-55; Alfred P. Sloan Foundation Research Fellow 1959-66; John Simon Guggenheim Memorial Foundation Fellow 1965-66; Fellow, American Physical Soc., American Acad. of Arts and Sciences; Sponsor, American Fed. of Scientists; mem. Nat. Acad. of Sciences, American Philosophical Soc.; Hon. D.Sc. (Columbia, Sussex), 1973, (Illinois, Brown) 1974, (Gustavus Adolphus Coll.) 1975, (Ohio State Univ.) 1976, (Univ. Pierre et Marie Curie, Paris) 1977; Comstock Prize, Nat. Acad. of Sciences 1968; Nobel Prize 1972; Descartes Medal, Acad. de Paris, Univ. René Descartes 1977. *Publications:* An Introduction to the Meaning and Structure of Physics 1968; numerous scientific papers. *Leisure interests:* skiing, music, theatre. *Address:* Physics Department, Brown University, Providence, R.I. 02912 (Office); 49 Intervale Road, Providence, R.I. 02906, U.S.A. *Telephone:* (401) 863-2172 (Office); (401) 421-1181 (Home).

COOPER, Martin Du Pré, C.B.E.; British music critic and writer; b. 17 Jan. 1910, Winchester; s. of Cecil H. H. Cooper and Cecil Hatherley Stephens; m. Mary Stewart, 1940; one s. three d.; ed. Winchester Coll., Hertford Coll., St. Edmund Hall, Oxford.; studied music in Vienna with Egon Wellesz 1932-34; Hon. Fellow, Trinity Coll. Music, London and R.A.M.; Asst. Editor Royal Geographical Society Journal 1935-36; Music Critic, London Mercury 1935-39, Daily Herald 1946-50, The Spectator 1946-54; joined music staff Daily Telegraph 1950, Music Editor 1954-76; Editor The Musical Times 1953-56; Pres. Critics' Circle 1959-60; mem. Editorial Bd. New Oxford History of Music 1961-, Editor Vol. X (1975). *Publications:* Gluck 1935, Bizet 1938, Opéra comique 1949, French Music from the Death of Berlioz to the Death of Fauré 1951, Russian Opera 1951, Les musiciens anglais d'aujourd'hui 1952, Ideas and Music 1966, Beethoven—the Last Decade 1970. *Leisure interests:* walking, languages. *Address:* 34 Halford Road, Richmond, Surrey, TW10 6AP, England.

COORAY, H. E. Cardinal Thomas B., PH.D., S.T.D.; Ceylonese ecclesiastic; b. 28 Dec. 1901; Ordained priest 1929; Titular Archbishop of Preslavo and Co-adjutor Archbishop of Colombo 1945; Archbishop of Colombo 1947-76; created Cardinal 1965; mem. Pontifical Comm. for Canon Law; fmr. Pres. Ceylon Bishops Conf. *Address:* Emmaus, Tewatta Road, Ragama, Sri Lanka. *Telephone:* 0782-208.

COORE, David Hilton, B.A., B.C.L., Q.C., M.P.; Jamaican politician; b. 22 Aug. 1925, St. Andrew; s. of Clarence Reuben Coore and Ethlyn Maud Hilton; m. Rita Innis 1949; three s.; ed. Jamaica Coll., McGill Univ., Exeter Coll., Oxford; practised as barrister-at-law in Jamaica 1950-72; mem. Legis. Council 1960-62; Opposition Spokesman on Finance 1967-72; Chair. People's Nat. Party 1969-; mem. Parl. 1972-; Deputy Prime Minister March 1972-, also Minister of Finance 1972-78, of Planning Jan. 1977-78; Chair. Bd. of Govs. Caribbean Devt. Bank 1972-73, Inter-American Devt. Bank 1973-74; Queen's Counsel 1961. *Leisure interests:* reading, swimming, golf. *Address:* Office of the Deputy Prime Minister, Kingston (Office); Vale Royal, 3 Montrose Road, Kingston 10, Jamaica (Home). *Telephone:* 929-5080 (Office); 927-6696 (Home).

COOREMANS, Lucien, D. EN D.; Belgian administrator; b. 1899; ed. Univ. Libre de Bruxelles; Sec. to Paul Hymans 1928-34; Sec. of the Cabinet and Minister of Justice 1940; fmr. [illegible] Chamber of Reps.; Pres. Brussels Exhibition 1958; Hon. Pres. Brussels Int. Fair; fmr. Pres. Union of Int. Fairs; Mayor of Brussels 1956-75; Hon.

Pres. and founder of the Union of Capitals of the European Community; many Belgian and foreign orders. *Address:* 29 avenue Amarante, 1020 Brussels, Belgium.

COPE, James Francis, C.M.G.; Australian politician; b. 26 Nov. 1907, Sydney; m.; one d.; active in Australian Labor Party, holding many exec. positions 1930-; alderman Redfern Council 1948-; Hon. Treas. and del. to Fed. Council of Australian Glassworkers' Union 1953-55; M.P. for Cook 1955, then Watson, then Sydney 1969-75; Parl. Public Accounts Cttee. 1956-72; Temp. Chair. of Cttees. 1967-72; Speaker, House of Reps. Australian Fed. Parl. 1973-75. *Address:* 13 William Street, Redfern, N.S.W. 2016, Australia.

COPELAND, Lammot du Pont; American business executive; b. 19 May 1905, Christiana Hundred, Del.; s. of Charles and Louisa d'Andelot du Pont Copeland; m. Pamela Cunningham 1930; two s. one d.; ed. Harvard Univ.; E. I. du Pont de Nemours & Co. Inc. 1929-, Dir. 1942-, mem. Finance Cttee. 1943-59, Sec. 1947-54, Vice-Pres. 1954-62, Pres. 1962-67, Chair. of Bd. 1967-71, mem. Exec. Cttee. 1959-71; Dir. Chemical Bank of New York Trust Co.; Dir. and Trustee of numerous financial orgs.; Officier, Légion d'honneur, Officer Order of Leopold (Belgium), Commdr., Order of the Couronne de Chêne (Luxembourg); various honorary degrees in Laws, Science and Engineering. *Leisure interests:* hunting, yachting. *Address:* Du Pont Building, Wilmington, Del. 19898, U.S.A.

COPIC, Branko; Yugoslav writer; b. 1915; ed. Belgrade Univ.; recipient of several Yugoslav literary awards; Order of Meritorious Service to the People (First and Second Class), Order of Brotherhood and Unity (First Class), 1941 Partisan Commemoration Medal. *Publications include:* A Warrior's Spring, Fighters and Fugitives, Dew on the Bayonets, Partisan Stories, and volumes of verse. *Address:* c/o Yugoslav Academy of Sciences and Arts, Zrinski trg. 11, Zagreb 1, Yugoslavia.

COPLAND, Aaron; American composer; b. 14 Nov. 1900, Brooklyn, New York; s. of Harris and Sarah (Mittenthal) Copland; enrolled Fontainebleau School of Music 1921; studied with Nadia Boulanger in Paris 1921-24; returned to U.S. 1924; Guggenheim Fellowship 1925-27; with Roger Sessions organised Copland-Sessions Concerts 1928-31; Dir. American Festival of Contemporary Music, Yaddo; toured South America 1941 and 1947; Lecturer on Music, New School for Social Research New York 1927-37; has taught composition at Harvard and Berkshire Music Center, Charles Eliot Norton Prof. 1951-52; Dir. League of Composers, Edward MacDowell Assen., Koussevitsky Music Foundation, Walter W. Naumberg Music Foundation and American Music Center; numerous awards. *Works include:* First Symphony 1925, Concerto for Piano and Orchestra 1926, Two Pieces for String Quartet 1928, Lincoln Portrait 1942, Billy the Kid 1938, Violin Sonata 1943, Appalachian Spring 1944, Clarinet Concerto 1948, Twelve Poems by Emily Dickinson 1950, John Henry (revised 1957), The Tender Land 1954, Symphonic Ode 1955, Piano Fantasy 1957, Orchestral Variations 1958, Nonet 1960, Connotations for Orchestra 1962, Music for a Great City 1963, Emblems for Band 1964, Inscape for Orchestra 1967, Duo for Flute and Piano 1971, Three Latin American Sketches 1971, Night Thoughts for Piano 1971. *Publications:* What to Listen for in Music 1939, Our New Music 1941, Music and Imagination 1952, Copland on Music 1960, The New Music 1900-1960 1968. *Address:* c/o Boosey & Hawkes Inc., 30 West 57th Street, New York, N.Y. 10019, U.S.A.

COPPÉ, Albert; Belgian politician; b. 26 Nov. 1911, Bruges; s. of Albert Coppé and Helene Mahieu; m. Maria-H. Vandriessche 1940; four s. four d.; ed. Catholic Univ. of Louvain; mem. (Christian-Social Party) Chamber of Reps. 1946-52; Minister of Public Works 1950, of Economic Affairs and the Middle Classes 1950-51, of Reconstruction 1952; Vice-Pres. High Authority of the European Coal and Steel Community 1952-67, Acting Pres. 1967; mem. Combined Comm. of EEC, ECSC, and EURATOM 1967-73; Chair. Bd. Generale Bankmaatschappij; mem. Bd. Philips Eindhoven; Prof. Extraordinary, Univ. of Louvain; Dr. h.c. (Montreal and San Antonio, Texas); Commdr. Ordre de Léopold, Grand Cordon, Ordre du Chêne (Luxembourg), Great Cross Leopold II, Great Cross Verdienstorden (Fed. Repub. of Germany); *Publications:* De Europes e Uitdaging 1970, De Multinationale Onderneming 1972, Inflatie 1974. *Leisure interests:* walking, history, paleontology. *Address:* Liskensstraat 2, Tervuren 1980, Belgium. *Telephone:* 02-767 3991.

COPPIETERS, Emmanuel (Coppieters de ter Zaele, chevalier Emmanuel), DR. ECON., DR. IUR., M.SC. (ECON.); Belgian economist and jurist; b. 1925; three s. one d.; ed. Louvain and London Univs.; Prof. Int. Econ. Orgs., Nat. Univ. Faculty of Econs., Antwerp (now Univ. of Antwerp) 1954-, Royal Mil. Coll. 1963-66; Dir.-Gen. Institut Royal des Relations Internationales, Brussels 1954-; Editor Chronique de Politique Etrangère; Co-Editor Internationale Spectator, Tijdschrift voor Internationale Politiek; Consul-Gen. of Honduras 1961-; Minister chargé d'affaires a.i. of Honduras to the European Communities 1973-77; Public Auditor of Banks 1962-; Adviser for Foreign Trade to Govt. 1964-; mem. Belg. Nat. Council of Statistics; mem. Royal Acad. of Overseas Sciences; Assoc. mem., Acad. Mexicana de Derecho Int.; mem. Belgian Nat. Comm. UNESCO, Gov. Assen. pour l'Etude des Problèmes de l'Europe, Paris; Gov. European Cultural Foundation 1973-; Barrister; mem. American Political Science Assen.; Reserve Lieut.-Col.; Officier Ordre de Léopold, Commdr. Ordre de la Couronne, Commdr. Order of the Holy Sepulchre, Résistance and Volontaire de Guerre Medals, Commdr. Order of Merit (Senegal), Orange-Nassau (Netherlands), Luxembourg, Grand Officier, Order of Morazan (Honduras), Tudor Vladimirescu (Romania), Officer Order of Rwanda, Order of Polonia Restituta, Knight of the Order of Malta, mem. Order of the Leopard (Zaire). *Publications:* English Bank Note Circulation 1694-1954, L'accord monétaire européen et le progrès de la convertibilité des monnaies, Internationale organisaties en Belgische economie, La integración monetaria y fiscal europea, Culminación de la integración política, Les conséquences économiques d'un éventuel désarmement, etc. *Address:* 88 avenue de la Couronne, Brussels; and Vijverskasteel, Loppem bij Brugge, Belgium. *Telephone:* 648-20-00; and (050)-822-888.

COPPOLA, Francis Ford; American film writer and director; b. 7 April 1939, Detroit, Michigan; s. of Carmine and Italia Coppola; m. Eleanor Neil; two s. one d.; ed. Hofstra University, Univ. of California. *Films include:* Dementia 13 1963, This Property is Condemned 1965, Is Paris Burning? 1966, You're A Big Boy Now 1967, Finian's Rainbow 1968, The Rain People 1969, Patton 1971, The Godfather 1972, American Grafitti 1973, The Conversation 1974, The Godfather Part II 1975, The Great Gatsby 1974, The Black Stallion (produced) 1977, Apocalypse Now 1979; theatre direction includes Enrico IV at the American Conservatory Theatre, San Francisco 1971, Private Lives, The Visit of the Old Lady, San Francisco Opera Co. 1972; Cannes Film Award for The Conversation 1974; Director's Guild Award for The Godfather; Acad. Award for Best Screenplay for Patton, also awarded three Oscars for The Godfather Part II. *Address:* Coppola Co., 916 Kearny Street, San Francisco, Calif. 94133, U.S.A.

CORBALLY, John Edward, PH.D.; American university administrator; b. 14 Oct. 1924, South Bend, Washington; s. of John E. and Grace Williams Corbally; m. Marguerite Walker 1946; one s. one d.; ed. Univs of Washington and California (Berkeley); High School Teacher and principal, State of Wash. 1947-53; College of Educ. Faculty, Ohio State Univ. 1955-61, Dir. Personnel Budget 1959-61, Exec. Asst. to Pres. 1961-64, Vice-Pres. for Admin. 1964-66, Vice-Pres. for Academic Affairs and Provost 1966-69; Chancellor and Pres. Syracuse Univ. 1969-71; Pres. Univ. of Illinois 1971-; Chair. Nat. Council on Educational Research, Nat. Inst. of Educ. 1973-79; Hon. LL.D. (Univ. of Md. 1971, Blackburn Coll. 1972, Ill. State Univ. 1977). *Publications:* co-author: An Introduction to Educational Administration 1958, Educational Administration: The Secondary School 1961, School Finance 1962. *Leisure interests:* golf, model railroading, travel. *Address:* 364 Administration Building, Urbana, Ill. 61801 (Office); 711 West Florida Avenue, Urbana, Ill. 61801, U.S.A. (Home). *Telephone:* 217-333-3070 (Office); 217-344-2010 (Home).

CORBIÈRE, Jacques; French industrialist; b. 11 June 1906, Paris; s. of Paul Corbière and Marguerite Gervais; m. Odette Gravelin 1934; three s. one d.; ed. Ecole Fénelon and Lycée Condorcet, Paris; Pres. and Dir.-Gen. Fromageries Charles Gervais 1960-67, Société Charles Gervais 1962-67 and Compagnie Gervais Danone 1967-; Vice-Pres. Conseil de Surveillance, Gervais Danone S.A. 1967-73; Admin. Vice-Pres. BSN Gervais Danone 1973-75, Hon. Pres. 1976-; Admin. Société Diététique Gallia and Société France-Glaces Findus 1960-76; Pres. Syndicat Professionnel des Industriels Laitiers de la Seine-Maritime 1953-57, Hon. Pres. 1957–; mem. Admin. Council, Fed. Nat. de l'Industrie Laitière 1963-75; Pres. Centre d'études et de recherches technologiques des industries alimentaires 1968-73; mem. St. Hubert Club, Cercle du Bois de Boulogne and Cercle du Golf de St.-Germain; Croix de guerre 1939-45, Officier Légion d'honneur, Officier du Mérite agricole, Chevalier Ordre de Léopold. *Leisure interests:* ornithology, cattle breeding, hunting, fishing. *Address:* 7 rue de Téhéran, 75008 Paris; 45 rue Emile-Ménier, 75116 Paris, France. *Telephone:* 563-11-50.

CORBIN, Edmond Emile; French engineer and international civil servant (retd.); b. 11 April 1908, Rennes; m. Geneviève Audet 1935; three s. one d.; ed. Ecole Polytechnique and Ecole Nationale des Ponts et Chaussées; Bridges and Highways Engineer, Lorient 1932-34, Cherbourg 1934-41, Nancy 1941-45; Chief Engineer of

Bridges and Highways, Asst. to Dir.-Gen. of Railways and Transport, Ministry of Public Works and Transport, later Head of Dept. of Int. Affairs 1945-61; Engineer-Gen. of Bridges and Highways in charge of Int. Relations 1961-66; Sec.-Gen. of European Conf. of Ministers of Transport 1966-76; mem. Gen. Council of Bridges and Highways 1976-; Officier, Légion d'honneur, Commdr. Ordre national du Mérite, Knight Order of Isabel la Católica '(Spain), Officer Order of Vasa (Sweden), Grand Cross of Merit (Fed. Repub. of Germany). *Address:* 18 avenue Charles Floquet, 75007 Paris, France. *Telephone:* 783-72-18 (Home).

CORDEIRO, H.E. Cardinal Joseph; Pakistani ecclesiastic; b. 19 Jan. 1918, Bombay; Ordained 1946; Archbishop of Karachi 1958-; created Cardinal 1973. *Address:* St. Patrick's Cathedral, Karachi 3, Pakistan.

COREA, Gamani, D.PHIL.; Ceylonese economist, diplomatist and UN official; b. 4 Nov. 1925, Colombo; s. of Dr. C. V. S. and Freda (née Kotelawala) Corea; ed. Royal Coll., Colombo, Corpus Christi Coll., Cambridge, and Nuffield Coll., Oxford; Dir. Planning Secr. and Sec. Nat. Planning Council 1956-60; Dir. of Econ. Research and Asst. to Gov. of Central Bank of Ceylon 1960-65; Perm. Sec. to Ministry of Planning and Econ. Affairs and Econ. Sec. to Cabinet 1965-70; Deputy Gov. Central Bank of Ceylon 1970-73; Amb. to EEC and Benelux countries 1973-74; Consultant to Sec.-Gen., UN Conf. on Trade and Devt.; fmr. Chief, UN Econ. Mission to British Honduras; Chair. UN Cttee. on Devt. Planning 1972-74, Cocoa Conf. 1972, Expert Group on Int. Monetary Reform and Developing Countries, UNCTAD 1969; Sr. Advisor to Sec.-Gen., UN Conf. on Human Environment (Stockholm) 1971-72; Sec.-Gen. UNCTAD 1974-; Chair. Expert Group on Regional Performance Evaluation, ECAFE 1972, Group on Review and Appraisal of 2nd Devt. Decade 1971, 1972; fmr. Pres. Section F, Ceylon Assen. for Advancement of Science, Pres. Assen. 1971; mem. Consultative Cttee. Asian Agricultural Survey, Asian Devt. Bank; Chair. Expert Panel on Devt. and Environment 1971; mem. Bd. Govs. of Third World Forum, Int. Foundation for Development Alternatives, Dag Hammarskjöld Foundation (Sweden), Int. Inst. of Quantative Econs., Concordia Univ., Canada, Int. Econ. Assen., Marga Inst. Devt. Studies (Chair), Sri Lanka; Research Fellow, Int. Devt. Research Centre, Canada 1973; Visiting Fellow, Inst. of Devt. Studies, Univ. of Sussex 1973, mem. Bd. of Govs. 1974-; Visiting Fellow, Nuffield College, Oxford 1974; Dr. h.c. (Nice) 1977. *Publications:* numerous articles on economics and the Third World. *Leisure interests:* photography, golf. *Address:* United Nations Conference on Trade and Development, Palais des Nations, 1211 Geneva 10, Switzerland (Office); and Horton Lodge, 21 Horton Place, Colombo 7, Sri Lanka (Home). *Telephone:* 34 60 11 (Office).

CORELLI, Franco; Italian tenor; b. Ancona; ed. Pesaro Conservatory, Maggio Musicale, Florence; first appearance as Don José in Carmen, Spoleto; appeared in Spontoni's La Vestale, La Scala, Milan 1954, Teatro San Carlo, Naples 1955, Cavaradossi, Covent Garden, London 1956, Rome 1957, 1958, Naples 1958, La Scala (with Maria Callas q.v.) 1960; Metropolitan Opera début as Manrico in Il Trovatore 1961; has sung major parts in Andrea Chénier, La Bohème, Turandot, Tosca, Ernani, Aida, Don Carlos, Forza del Destino, Cavalleria Rusticana, I Pagliacci, etc.; performs regularly on American TV; completed recital tour with Renata Tebaldi; 1st Prize Spoleto Nat. Competition. *Address:* c/o S. A. Gorlinsky, 35 Dover Street, London, W.1, England.

COREY, Elias James, PH.D.; American professor of chemistry; b. 11 July 1928, Methuen, Mass.; s. of Elias J. Corey and Tina Hasham; m. Claire Higham 1961; two s. one d.; ed. Massachusetts Inst. of Tech.; Instructor in Chem., Univ. of Ill. 1951-53, Asst. Prof. of Chem. 1953-55, Prof. 1956-59; Sheldon Emery Prof. of Chem., Harvard Univ. 1959-, Chair. Dept. of Chem. 1965-68; Alfred P. Sloan Foundation Fellow 1955-57, Guggenheim Fellow 1957, 1968-69; mem. American Acad. of Arts and Sciences 1960-68, Nat. Acad. of Sciences 1966-; Hon. A.M., Hon. D.Sc.; Pure Chem. Award of American Chemical Soc. 1960, Fritzsche Award of American Chemical Soc. 1967, Intra-Science Foundation Award 1967, Harrison Howe Award, American Chemical Soc. 1970, Award for Synthetic Organic Chem. 1971, CIBA Foundation Award 1972, Evans Award, Ohio State Univ. 1972, Linus Pauling Award 1973, Dickson Prize in Science, Carnegie Mellon Univ. 1973, George Ledlie Prize, Harvard 1973, Remsen Award, Md. Section, American Chem. Soc. 1974, Arthur C. Cope Award 1976. *Publications:* approx. 300 chemical papers. *Leisure interests:* outdoor activities and music. *Address:* Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, Mass. 02138 (Office); 20 Avon Hill Street, Cambridge, Mass. 02140, U.S.A. (Home). *Telephone:* 617-495-4033 (Office); 617-864-0627 (Home).

CORFIELD, Rt. Hon. Sir Frederick Vernon, Kt., P.C., Q.C.; British barrister-at-law and politician; b. 1 June 1915, London; s. of Brig. Frederick A. Corfield, D.S.O. and Mary Vernon; m. Elizabeth M. R. Taylor; ed. Cheltenham Coll. and Royal Military Acad., Woolwich; regular army 1935-45, prisoner-of-war 1940-45; called to Bar, Middle Temple 1945; Judge Advocate Gen.'s Branch, War Office 1945-46; farming 1946-56; mem. Parl. for S. Gloucester 1955-74; Joint Parl. Sec. Ministry of Housing and Local Govt. 1962-64; Minister of State, Bd. of Trade June-Oct. 1970; Minister of Aviation Supply 1970-71, Minister for Aerospace, Dept. of Trade and Industry 1971-72; mem. British Waterways Bd. 1974-; Chair. London and Provincial Antique Dealers Assen. Ltd.; Conservative. *Publications:* Corfield on Compensation 1959, A Guide to the Community Land Act 1975, Compulsory Acquisition and Compensation (joint author) 1978. *Leisure interest:* gardening. *Address:* 2 Paper Buildings, Temple, London, E.C.4 (Office); 9 Randolph Mews, London, W.9; Wording's Orchard, Sheepscombe, Stroud, Glos., GL6 7RE, England.

CORFIELD, Kenneth George, C.E., C.I.E.E., F.I.MECH.E.; British engineer and company executive; b. 27 Jan. 1924, Rushall; s. of Stanley Corfield and Dorothy Elisabeth (née Mason); m. Patricia Jean Williams 1960; one d.; ed. Elmore Green High School, South Staffs. Coll. of Advanced Tech.; Tech. Officer, ICI Ltd. 1947-50; Chief Exec., K.G. Corfield Ltd., camera mfrs. 1950-61; Exec. Dir. Parkinson Cowan Ltd. 1962-67; Vice-Pres., Dir. and Gen. Man., ITT Europe Inc. 1967-70; Dir. Standard Telephones and Cables Ltd. 1970-, Deputy Chair. 1974-; Vice-Pres., Int. Standard Electric Corpn., ITT Sr. Officer in U.K. 1974-; Chair. Nat. Econ. Devt. Cttee. for Ferrous Foundries Industry 1975-; Vice-Chair. British Inst. of Man. 1978-; Chair. Joint CBI/BIM Advisory Panel Man. Education; mem. Advisory Council, Science Museum 1975-; Dr. h.c. (Surrey). *Publication:* Report on Product Design for N.E.D.C. 1979. *Leisure interests:* shooting, Hi Fi, photography, cinema. *Address:* Standard Telephones and Cables Ltd., 190 Strand, London, W.C.2 (Office); 14 Elm Walk, Hampstead, London, N.W.3, England (Home). *Telephone:* (01) 836 8055 (Office).

CORI, Carl Ferdinand, M.D.; American university professor; b. 5 Dec. 1896; ed. German Univ., Prague; Asst. in Pharmacology Univ. of Graz 1920-21; went to U.S.A. 1922, naturalized U.S. citizen 1928; Biochemist, State Inst. for Study of Malignant Disease, Buffalo, N.Y. 1922-31; Prof. of Pharmacology and Biochemistry, Washington Univ. School of Medicine, St. Louis, Mo. 1931-67; Visiting Prof. of Biochemistry at Mass. Gen. Hosp., Harvard Medical School, Boston, Mass. 1967-; mem. Nat. Acad. of Sciences, American Assen. for Advancement of Science, American philosophical Soc., American Chemical Soc., American Soc. of Biological Chemists (Pres. 1949-50); Pres. Fourth Int. Congress of Biochemistry, Vienna 1958; foreign mem. Royal Soc.; Lasker Award 1946, Mid-West Award (American Chemical Soc.) 1946, Sugar Research Foundation Award 1947, 1950, Squibb Award 1947, Nobel Prize in Medicine and Physiology 1947, Willard Gibbs Medal (American Chemical Soc.) 1948; numerous hon. degrees. *Address:* Enzyme Research Laboratory, Massachusetts General Hospital, Fruit Street, Boston, Mass. 02114, U.S.A. *Telephone:* 617-726-3737.

CORISH, Brendan; Irish politician; b. 1918; mem. of Parl. 1945–; Vice-Chair. Labour Party 1946, Chair. 1949-53, Parl. Leader 1960-77, mem. Council of State 1964-; Parl. Party Whip 1945-54; Parl. Sec. to Minister of Local Govt. and Minister of Defence 1948; Minister of Social Welfare 1954-57; Del. to Council of Europe 1955-59; Del. to Int. Affairs Assen. Conf. 1949; Del. to Inter-Parl. Union Conf., Istanbul 1951; assoc. mem. Del. to Commonwealth Relations Conf., Ottawa 1952; Deputy Prime Minister and Minister for Health and Social Welfare 1973-77. *Address:* Belvedere Road, Wexford, Ireland.

CORMACK, Sir Magnus Cameron, K.B.E.; Australian farmer and politician; b. 12 Feb. 1906, Caithness, Scotland; s. of William P. Cormack and Violet M. Cameron; m. Mary I. G. Macmeiken; one s. three d.; ed. St. Peter's School, Adelaide; mem. Senate 1951-53, 1961-, Pres. 1971-74; del. to Commonwealth Parliamentary Assen. Conf., Kuala Lumpur 1963, UN Gen. Ass. 1965; Liberal. *Leisure interests:* sailing, deep sea cruising. *Address:* The Senate, Parliament House, Canberra A.C.T. (Office); Seven, Market Court, Portland, Victoria, Australia (Home).

CORNEILLE (*see* Beverloo, Cornelis Van).

CORNELIS, Henri Arthur Adolf Antoon Marie Christophe; Belgian administrator; b. 18 Sept. 1910; ed. Univ. of Ghent and Geneva School of Int. Studies. Belgian Congo 1934-60, Territorial Administrator 1934-38, Head, Finance and Customs Office 1938-42, Principal Territorial Admin. 1942-46, Sub.-Dir. Econ. Affairs 1946-48; Dir. Econ. Affairs 1948-50, Dir.-Gen. Econ. Affairs

1950-51, Commr. Ten Year Plan 1951-53, Vice-Gov.-Gen. of Belgian Congo 1953-58, Gov.-Gen. 1958-60; Adviser Banque de Paris et des Pays-Bas, Brussels 1961-64; Dir., Adviser to the Chair. Cominière, Brussels 1965-. *Address:* 2 rue de la Sarte, Dion le Mont, Belgium.

CORNER, Edred John Henry, C.B.E., F.R.S., F.L.S.; British fmr. botanist; b. 12 Jan. 1906, London; s. of Edred Moss Corner and Henrietta (née Henderson) Corner; ed. Rugby School; Asst. Dir. Gardens Dept., Straits Settlements 1929-45; Principal Field Scientific Officer, Latin America, UNESCO 1947-48; Lecturer in Botany, Cambridge Univ. 1949-59, Reader in Plant Taxonomy 1959-65, Prof. of Tropical Botany 1966-73; Fellow, American Assen. for Advancement of Science and mem. or corresp. mem. of many other foreign botanical and mycological socs.; Darwin Medal, Royal Soc. 1960, Patron's Medal, Royal Geographical Soc. 1966, Gold Medal, Linnean Soc. 1970, Victoria Medal of Honour, Royal Horticultural Soc. 1974. *Publications:* Wayside Trees of Malaya 1940, Monograph of Clavaria 1950, Life of Plants 1964, Monograph of Cantharelliod Fungi 1966, Natural History of Palms 1966, Illustrated Guide to Tropical Plants (with K. Watanabe) 1969, Boletus in Malaysia 1972, Seeds of Dicotyledons 1976. *Leisure interest:* kindness. *Address:* 91 Hinton Way, Great Shelford, Cambridge, CB2 5AH, England. *Telephone:* Shelford 2167.

CORNER, Frank Henry, M.A.; New Zealand diplomatist; b. 17 May 1920, Napier; s. of C. W. Corner and S. O. Smith; m. Lynette Robinson 1943; two d.; ed. Victoria Univ. of Wellington; First Sec. Washington 1948-51; Sr. Counsellor, London 1952-58; Deputy Sec. of External Affairs 1958-62; Perm. Rep. to UN 1962-67; Amb. to U.S.A. 1967-72; Sec. of Foreign Affairs 1973-. *Leisure interests:* gardening, walking, music. *Address:* 26 Burnell Avenue, Wellington, New Zealand. *Telephone:* 736-678 (Office); 737-022 (Home).

CORNER, George Washington, M.D., SC.D., LITT.D, LL.D.; American physician and scientist; b. 12 Dec. 1889, Baltimore, Md.; s. of George W. Corner, Jr. and Florence E. Evans; m. Betsy Lyon Copping (died 1976); one s. one d. (deceased); ed. John Hopkins Univ.; Asst. in Anatomy, Johns Hopkins Univ. 1913-14, Resident House Officer, Johns Hopkins Hosp. 1914-15; Asst. Prof. Univ. of Calif. 1915-19; Assoc. Prof. Johns Hopkins Univ. 1919-23; Prof. Univ. of Rochester 1923-40; Dir. Dept. of Embryology, Carnegie Inst. of Wash., Baltimore 1940-55; Eastman Prof. Oxford 1952-53; Historian, The Rockefeller Inst. New York 1956-60; mem. U.S. Acad. of Sciences (Vice-Pres. 1953-57), American Philosophical Soc. (Vice-Pres. 1953-56, Exec. Officer 1960-77, Editor 1977-); Hon. Fellow, Zoological Society (London), Hon. F.R.C.O.G.; foreign mem. Royal Soc. of London; Fellow, Royal Soc. of Edinburgh. *Publications:* Anatomical Texts of the Earlier Middle Ages 1927, The Hormones in Human Reproduction 1942, Ourselves Unborn 1945, Anatomist at Large 1958, George Hoyt Whipple and his Friends 1963, Two Centuries of Medicine 1965, History of the Rockefeller Institute 1965, Doctor Kane of the Arctic Seas 1972. *Leisure interest:* travel. *Address:* American Philosophical Society, 104 S. 5th Street, Philadelphia, Pa. 19106. U.S.A. *Telephone:* MA 7-0706 (Office).

CORNFORTH, Sir John Warcup, Kt., C.B.E., D.PHIL., F.R.S.; Australian research scientist; b. 7 Sept. 1917, Sydney; s. of J. W. Cornforth and Hilda Eipper; m. Rita H. Harradence; one s. two d.; ed. Univs. of Sydney and Oxford; Scientific Staff, Medical Research Council 1946-62; Dir. Milstead Lab. of Chemical Enzymology, Shell Research Ltd. 1962-75; Assoc. Prof. Univ. of Warwick 1965-71; Visiting Prof. Univ. of Sussex 1971-75; Royal Soc. Prof. Univ. of Sussex 1975-; Foreign Hon. mem. American Acad. 1973; Corresp. mem. Australian Acad. of Science 1977-; Foreign Assoc. U.S. Nat. Acad. of Sciences 1978-; Foreign mem. Royal Netherlands Acad. of Sciences 1978-; Hon. Fellow St. Catherine's Coll., Oxford 1976-; Hon. D.Sc. (ETH Zurich) 1975, (Oxford, Dublin, Liverpool, Warwick Univs.) 1976, (Aberdeen, Hull, Sussex, Sydney Univs.) 1977; Corday-Morgan Medal, Chem. Soc. 1953, Flintoff Medal, Chem. Soc. 1966, Ciba Medal, Biochem. Soc. 1966, Stouffer Prize 1967, Davy Medal (Royal Soc.) 1968, Ernest Guenther Award, American Chemical Soc. 1969, Prix Roussel 1972, Nobel Prize for Chemistry 1975, Royal Medal, Royal Soc. 1976. *Publications:* The Chemistry of Penicillin (part author) 1949, and numerous papers on chemical and biochemical topics. *Leisure interests:* tennis, gardening, chess. *Address:* University of Sussex, The School of Molecular Sciences, Falmer, Brighton, Sussex, BN1 9QJ, England. *Telephone:* Brighton (0273) 66755.

CORNWELL, David John Moore (pseudonym John le Carré); British writer; b. 19 Oct. 1931; ed. St. Andrew's Preparatory School, Pangbourne, Sherborne School, Berne Univ., and Lincoln Coll., Oxford; Teacher, Eton Coll. 1956-58; in Foreign Service 1959-64; Somerset Maugham Award 1963, James Tait Black Award 1977. *Publications:* Call for the Dead 1961 (filmed ■ The Deadly Affair 1967), Murder of Quality 1962, The Spy Who Came in From the Cold 1963, The Looking Glass War 1965, A Small Town in Germany 1968, The Naive and Sentimental Lover 1971, Tinker, Tailor, Soldier, Spy 1974, The Honourable Schoolboy 1977. *Address:* c/o John Farquharson Ltd., Bell House, Bell Yard, London, WC2A 2JR, England.

CORONA MARTIN, Ramón; Mexican architect; b. 1906; ed. Xaverian Coll., Brighton, Oxford Univ., Escuela Nacional Preparatoria, Escuela Nacional de Arquitectos de México, and Univ. Nacional de México; Architectural Practice 1929-; Vice-Pres. Int. Union of Architects; mem. Bd. of Dirs. Univ. Autónoma de Guadalajara; mem. Bd. of Honour, Colégio de Arquitectos de México and Sociedad de Arquitectos de México; mem. numerous int. architectural societies. *Address:* Monte Libano 670, México 10, D.F., Mexico.

CORONEL DE PALMA, Luis, LL.B.; Spanish banker; b. 4 May 1925, Madrid; m. María del Rosario Martínez-Agulló Sanchis 1953; five c.; ed. Cen. Univ. of Madrid; Called to the Bar 1954; with Barcelona Treasury Office; Deputy Magistrate, High Court of Barcelona 1956; Dir.-Gen. Savings and Investment, Gen. Banking and Exchange Office, Secr. of Bd. of Investments, Ministry of Finance 1957, Dir.-Gen. Confed. of Savings Banks 1959, 1976-; Savings Banks Credit Inst. 1962; Nat. Econ. Adviser 1965; Gov. IBRD, IMF 1970; Gov. Banco de España 1970; mem. Royal Acad. of Jurisprudence 1955; Grand Cross, Civil Merit, Military Merit, and other decorations. *Leisure interests:* music, reading. *Address:* c/o Banco de España, Alcalá 50, Madrid 14, Spain.

CORRE, Max, L. ÈS L.; French journalist; b. 25 Feb. 1912; ed. Paris Univ.; Editor-in-Chief Samedi-Soir; Dir. of Paris-Match; Dir.-Gen. of Paris Presse, France-Dimanche; Admin. Télé-7-jours 1963; co-Dir. Aigle-Azur Presse 1968-70; Adviser Hebdo Press Group 1968-73; Dir. Soc. Animatique depresse 1972; Editor Paris-Paris 1973; Officier, Légion d'honneur, Croix de guerre. *Address:* 19 rue Octave-Feuillet, 75016 Paris, France.

CORRÊA DA COSTA, Sérgio; Brazilian diplomatist; b. 19 Feb. 1919, Rio de Janeiro; s. of Dr. I. Alfonso da Costa and Lavinia Corrêa da Costa; m. Zazi Aranha 1943; one s. two d.; ed. Univ. do Brasil and Univ. of California (Los Angeles); Sec., Brazilian Embassy, Buenos Aires 1944-46, Washington D.C. 1946; Acting Rep. to Council of OAS and Inter-American ECOSOC 1946-48; Deputy Head, Econ. Dept., Ministry of Foreign Relations 1952; Head Div. of Int. Affairs, Brazilian War Coll. 1952; Acting Pres. Brazilian Nat. Tech. Assistance Comm. 1955-58; Minister Counsellor, Rome 1959-62; Amb. to Canada 1962-65; Sec.-Gen. Ministry of Foreign Relations 1967-68, Acting Minister 1968; Amb. to U.K. 1968-74; Perm. Rep. to UN 1974-; Brazilian Rep., 18th and 21st Sessions, UN Gen. Assembly 1963 and 1966; numerous orders. *Publications:* As Quatro Corôas de D. Pedro I 1941, Pedro I e Metternich—Tracos de uma guerra diplomática 1942, A Diplomacia Brasileira na questão de Letícia 1942, A Diplomacia do Marechal-Intervenção Estrangeira na Revolta da Armada 1945, Every Inch a King—A Biography of Dom Pedro I, First Emperor of Brazil 1950. *Leisure interests:* swimming, yachting, reading. *Address:* Permanent Mission of Brazil to United Nations, 747 Third Avenue, 9th Floor, New York, N.Y. 10017, U.S.A.

CORRÊA DO LAGO, Antonio, M.A., LL.B.; Brazilian diplomatist; b. 28 Aug. 1918, Pau, France; s. of Gen. Manoel Corrêa do Lago and Maria Helena Guerra do Lago; m. Delminda Aranha Corrêa do Lago 1948; five s.; ed. Colégio Santo Ignácio, Rio de Janeiro, Univ. do Brasil, Rio de Janeiro, and Univ. of S. California, Los Angeles; Foreign Service 1939-, Buenos Aires 1944, Montevideo 1945-47; Consul, Los Angeles 1951-53; Head, Econ. Div., Ministry of External Relations 1954-58; Consul-Gen. Paris 1959-61; Head of Brazilian Del. to Conf. of Latin American Free Trade Assen. 1961; Amb. to Venezuela 1961-64; Perm. Rep. to European Office of UN, Geneva, and Del. to Disarmament Cttee. 1964-66; Dir. Instituto Rio Branco (Foreign Service Inst.) 1966-69; Del. to XXII Session UN Gen. Ass. 1967; Amb., Head Mission to European Communities, Brussels 1970-74; Amb. to Uruguay 1974-; *Address:* Brazilian Embassy, Bulevar Artigas 1410, Montevideo, Uruguay. *Telephone:* 79-68-21.

CORRENS, Erich; German chemist and politician; b. 12 May 1896, Tübingen; ed. Univs. of Berlin and Tübingen; Chemist in rayon industry; works dir. cellulose and paper factory, Blankenstein, and rayon factory, Schwarza 1946-50; Dir. Fibre Research Inst., German Acad. of Sciences, Berlin 1951-62; mem. German Acad. of Sciences 1951-; mem. Volkskammer 1954-; Pres. of Nat. Council of Nat. Front of Democratic Germany 1950-; mem. Council of State 1960-; Dr. h.c.; Karl-Marx-Orden and other awards. *Address:* Staatsrat, Berlin, German Democratic Republic.

CORRIGAN, Mairead; British Peace Prize winner; b. 27 Jan. 1944, Belfast; d. of Andrew Corrigan; ed. St. Vincent's Primary

School, Belfast, Miss Gordon's Commercial Coll.; works as shorthand typist; Winner of Nobel Peace Prize for launching the Northern Ireland Peace Movement (later renamed Community of the Peace People) 1976; Carl von Ossietzky Medal for Courage (Berlin Section, Int. League of Human Rights); Hon. LL.D. (Yale Univ.). *Address:* Community of the Peace People, 224 Lisburn Road, Belfast BT9 6GE, Northern Ireland.

CORSARO, Frank Andrew; American theatre and opera director; b. 22 Dec. 1924, New York; s. of Joseph and Marie (née Quarino) Corsaro; m. Bonnie Leaders 1971; one s.; ed. Yale Univ.; began career as actor 1948, appearing since in productions including Mrs. McThing, Broadway 1951; first film appearance in Rachel, Rachel 1967; dir. of numerous plays including A Hatful of Rain, Broadway 1955-56, The Night of the Iguana 1961-62, Tremonisha 1975, 1600 Pennsylvania Avenue 1976, Cold Storage, Lyceum 1977-; directed and acted in numerous TV productions; one-man art show 1976; dir. numerous operas with New York City Opera 1958-, Washington Opera Soc. 1970-74, St. Paul Opera 1971, Houston Grand Opera 1973-77, Assoc. Artistic Dir. 1977-; productions include La Traviata, Madame Butterfly, Faust, Manon Lescaut, A Village Romeo and Juliet, L'Incoronazione di Poppea, The Angel of Fire, Hugh the Drover, Rinaldo; now Assoc. Artistic Dir. Houston Grand Opera; Prof. Music and Drama, Univ. of Houston. *Publications:* L'histoire du soldat (adaptation), La Bohème (adaptation), A Piece of Blue Sky (play), Maverik 1978. *Leisure interests:* painting, piano playing, writing. *Address:* c/o New York City Opera, State Theater, Lincoln Center, New York, N.Y. 100023 (Office); 33 Riverside Drive, New York, N.Y. 100023, U.S.A. (Home). *Telephone:* (212) TR7-4700 (Office); 212-874-1048 (Home).

CORSON, Dale R., PH.D.; American physicist and university administrator; b. 5 April 1914, Pittsburg, Kansas; s. of the late Harry R. Corson and of Alta Hill Corson; m. Nellie E. Griswold 1938; three s. one d.; ed. Coll. of Emporia, Univs. of Kansas and California; with Los Alamos Scientific Lab. 1945-46; Asst. Prof. of Physics, Cornell Univ. 1946-47, Assoc. Prof. 1947-52, Prof. 1952-56, Chair., Dept. of Physics 1956-59, Dean, Coll. of Eng. 1959-63, Univ. Provost 1963-69; Pres. Cornell Univ. 1969-77, Chancellor 1977-; Dir. K Mart Corpn., Int. Minerals and Chemical Corpn.; Gov. The New York Hosp.; Fellow New York Acad. of Sciences, A.A.A.S. *Publications:* Introduction to Electromagnetic Fields and Waves (with Lorrain), Particle Accelerators in Encyclopedia Americana. *Leisure interests:* hiking, mountain climbing, canoeing, photography, sailing. *Address:* 300 Day Hall, Cornell University, Ithaca, N.Y. 14853 (Office); 144 Northview Road, Ithaca, N.Y. 14850, U.S.A. (Home). *Telephone:* (607) 256-5201 (Office); (607) 272-1815 (Home).

CORSON, Bishop Fred Pierce, LL.D.; American ecclesiastic; b. 11 April 1896, Millville, N.J.; s. of Jeremiah and Mary Corson; m. Frances Blount Beaman 1922; one s.; ed. Dickinson Coll., and Drew Univ.; ordained 1920, successively Pastor Jackson Heights (New York), New Haven (Conn.), Pt. Washington (New York), Simpson Church, Brooklyn (New York) until 1929; Superintendent, New York East Methodist Conf. 1930-34; Pres. Dickinson Coll. (Carlisle, Pa.) 1934-44; Methodist Bishop of Philadelphia 1944-68; Pres. Methodist Gen. Bd. of Educ. 1948-60; Pres. Council of Methodist Bishops 1952-53; Pres. World Methodist Council 1961-66; Vice-Pres. Methodist Council on World Service and Finance 1960-; Protestant Observer to the Vatican Council 1962, 1963, 1964, 1965; Titular Pastor, Old St. George's Church 1968-; mem. Ecumenical Theological Symposium, 41st Eucharistic Congress; mem. Newcomen Soc. and numerous other socs.; Hon. Chancellor, Union Coll., Schenectady, N.Y.; Trustee, numerous Colls.; Hon. D.D., L.H.D., Litt.D., S.T.D., Sc.D., J.U.D., D.C.L., D.S.L., Pd.D., D.R.E., Arts D., Ecu.D., E.J.D.; Peace Medal Award of Third Order of St. Francis of Assisi 1967, Rerum Novarum Medal from Pope Paul VI 1967, John Wesley Ecumenical Medal 1967, Order of St. Olav of Norway 1964, Royal Order of Scotland 1977. *Publications include:* Dickinson College, A Christian Philosophy of Education for the Postwar World, The Minister and Christian Higher Education, The Education We Have and the Education We Need, Free Masonry and the Framing of the Constitution, Your Church and You, American Methodism's Magna Carta, How Good is Communism?, Pattern for Successful Living, The Christian Imprint; co-author: Steps to Christian Unity, Doctrines and Vatican Council II, Augustin Cardinal Bea; editor Anniversary Edition of John Wesley's Translation of the New Testament. *Address:* Cornwall Manor, Cornwall, Pa. 17016, U.S.A. *Telephone:* 717-273-1077.

CORT, Stewart Shaw; American steel executive (retd.); b. 9 May 1911, Duquesne, Pa.; s. of Stewart J. and Carolyn (Schreiner) Cort; m. 2nd Alys Bennett 1978; ed. Yale Univ. and Harvard Business School; Bethlehem Steel Corpn. 1937-74, Clerk, Commercial Research Div. 1937-39, Sales Dept., Pacific Coast Div. 1939, later Man. Commercial Research and Sheet and Tinplate Sales; Asst. Gen. Man., Sales, Pacific Coast Div. 1950-52, Gen. Man. 1952-54, Vice-Pres. Sales (Pacific Coast Div.) 1954-60, Asst. Gen. Man. Sales 1960-61, Vice-Pres. 1961-63, Dir. 1963-, Pres. 1963-70, Chair. 1970-74; Chair., Chief Exec. Officer and Dir. American Iron and Steel Inst.; mem. Business Council, Exec. Council of Harvard Business School Assoc., The Pa. Soc. (Pres. 1971-72); Chair. Radio Free Europe 1971-73; Trustee, Blair Acad.; Grand Commdr. of the Order of African Redemption (Liberia). *Leisure interests:* bridge, golf. *Address:* Suite 310, 437 Main Street, Bethlehem, Pennsylvania 18018, U.S.A.

CORTÁZAR, Julio; Argentine writer; b. 1914; shorter works have appeared in New World Writing (New York), La Table Ronde (Paris), Akzente (Germany); on staff of UNESCO, Paris; mem. Jury, Casa de las Américas Prize, Prix Médicis 1974. *Publications:* Bestiario (short stories) 1951, Final del juego (short stories) 1956, Las armas secretas (short stories) 1959, Rayuela (novel) 1963, Los premios (novel) 1964, Story of Cronopios and Famas (stories), All the Fires, Fire (stories), Devil's Drool 1962, Modelo Para Armar 1968, Relatos (short stories) 1970, Libro de Manuel (novel) 1973, Alguien que anda por ahí 1978. *Address:* Place Général Beuret, 75015 Paris, France.

CORTESI, Gaetano, D.ECON.; Italian industrial executive; b. 8 May 1912, Mesenzana, Varese; s. of late Giuseppe Cortesi and late Angela Ferrini; m. Fiorella Lello 1946; three s.; ed. Bocconi Univ., Milan; with Inst. for Industrial Reconstruction (IRI) group 1935-; first in textile industry, then with Banca Commerciale Italiana in New York and in Italy; Man. Control Dept. of IRI 1945, responsible for mechanical industries sector incl. Alfa Romeo 1957-60, Head of Man. Control Dept. 1960-66; assigned to superintend merger of Italian shipyards into Italcantieri, Trieste 1966; Pres. Italcantieri until 1971; Man. Dir. Fincantieri corpn. controlling 14 major shipbuilding and repair yards in Italy 1971-74; Chair., Man. Dir. Alfa Romeo S.p.A. 1974-78; also Chair. Alfa Romeo Alfasud S.p.A.; Cavaliere del Lavoro. *Publication:* Pianificazione, Programmazione e Controlli Industriali 1955. *Leisure interest:* mountaineering. *Address:* c/o Alfa Romeo S.p.A., via Gattemelata 45, Milan, Italy.

CORTINA MAURI, Pedro; Spanish lawyer; diplomatist and politician; b. 1908; ed. Univ. of Madrid, Acad. of International Law, The Hague; Legal Adviser on Int. Affairs, Ministry of Foreign Affairs 1937-52; Consul-Gen. Tangiers 1945-52; Dir. Int. Orgs., Ministry of Foreign Affairs 1952-55; Consul-Gen. Paris, del. to Int. Orgs., Paris 1955-58; mem. del. to UN Gen. Ass. 1956; Under-Sec. Ministry of Foreign Affairs 1958-66; Amb. to France 1966-74; Minister of Foreign Affairs 1974-75; mem. Inst. of Int. Law; Grand Cross Order of Isabel la Católica, Order of Civil Merit, Order of San Raimundo de Penafort, Légion d'honneur. *Address:* c/o Ministerio de Asuntos Exteriores, Madrid, Spain.

CORTLANDT, Lyn, B.A., F.I.A.L., F.R.S.A.; American artist; b. New York; d. of Graf Karl Gustav von Lubieński and Elinor Ernestine (Thiel) Cortlandt; ed. Chouinard Art Inst., Jepson Art Inst. (Los Angeles), Art School of Pratt Inst., Columbia Univ. School of Painting and Sculpture, Hans Hofmann School of Fine Arts, China Inst. in America, Art Students' League of New York (all in New York), and private instruction; Advisory mem., Marquis Biographical Library Soc.; Comitato Internazionale, Centro Studi e Scambi Internazionali; works in Metropolitan Museum of Art, New York, Museum of Fine Arts, Boston, Fogg Museum of Art, Art Inst. of Chicago, Brooklyn Museum, Baltimore Museum of Art, Cincinnati Art Museum, Musée National d'Art Moderne, Paris, Stedelijk Museum, Amsterdam, Springfield Museum of Fine Arts, Mass., New York Public Library, Boston Public Library, etc.; Exhibitions in U.S.A., Belgium, Switzerland, Greece, Netherlands, Japan, Italy, Portugal, France, Brazil, Argentina, Curaçao, Puerto Rico, Jamaica, and Trinidad; mem. many socs. including Int. Platform Assn., American Acad. of Political and Social Science, American Judicature Soc., Nat. Trust for Historic Preservation, Acad. of Political Science, UN/U.S.A., Nat. Soc. of Literature and the Arts, Allied Artists of America, Painters and Sculptors Soc. of New Jersey; Fellow, Royal Soc. of Arts (London), Int. Inst. of Arts and Letters (Germany); many awards for oils and watercolours. *Leisure interests:* music, reading (non-fiction), tennis, foreign travel. *Address:* 1070 Park Avenue, New York City, N.Y. 10028, U.S.A. *Telephone:* (212) 289-6370.

CORWIN, Norman; American writer-producer-director of radio, television, stage and cinema; b. 3 May 1910, Boston, Mass.; s. of Samuel H. Corwin and Rose Ober; m. Katherine Locke 1947; one s. one d.; Newspaperman 1929-38; writer, director, producer for Columbia Broadcasting System 1938-48; Chief, Special Projects,

UN Radio 1949-53; mem. Faculty of Theatre Arts Univ. of Calif., Los Angeles; Regents Lecturer Univ. of Calif., Santa Barbara; mem. Telecommunications faculty, Univ. of Southern Calif.; writer in residence Univ. of N. Carolina; Co-Chair. Scholarship Cttee. of Acad. of Motion Picture Arts and Sciences; Chair. Documentary Awards Cttee. of Acad. of Motion Picture Arts and Sciences 1964–; mem. Bd. of Dirs. Writers Guild of America; Trustee Filmex; writer, dir. and host TV series, Norman Corwin Presents, Westinghouse Broadcasting Co.; recipient of Peabody Medal, Edward Bok Medal; Award of American Acad. of Arts and Sciences 1942; American Newspaper Guide Page One Award 1944, 1945; Wendell Wilkie One-World Award 1946, entered in Radio Hall of Fame 1962; Hon. D.Litt. (Columbia Coll. of Communications); other awards. *Publications:* They Fly through the Air 1939, Thirteen by Corwin 1942, More by Corwin 1944, On a Note of Triumph (both as a book and album of recordings) 1945, Untitled, and Other Dramas 1947, Dog in the Sky 1952, Overkill and Megalove 1962, Prayer for the 70's 1969, Holes in a Stained Glass Window 1978; *Films:* The Blue Veil, The Grand Design, Lust for Life, The Story of Ruth, Prayer for the 70's 1969; *Cantatas:* The Golden Door, Yes Speak Out Yes (commissioned by UN 1968); Stage plays: The Rivalry, The World of Carl Sandburg, The Hyphen, Cervantes, Together Tonight 1975. *Leisure interests:* mineralogy, music, painting, chess. *Address:* 10401 Wellworth Avenue, Los Angeles, Calif. 90024 (Office); 4477 Colbath Avenue, Sherman Oaks, Calif. 91403, U.S.A. (Home). *Telephone:* 213-27-48601 (Writers' Guild of America, West).

COSGRAVE, Liam, LL.B.; Irish politician; b. 30 April 1920, Templeogue, Co. Dublin; s. of the late William T. Cosgrave (Pres. of the Exec. Council of the Irish Free State, 1922-32) and Louise Flanagan; m. Vera Osborne 1952; two s. one d.; ed. Christian Brothers' Schools, Dublin, St. Vincent's Coll., Castleknock, Co. Dublin and Kings Inns; called to the Bar 1943; called to the Inner Bar 1958; served in Army, first as private and later in commissioned rank; T.D., Dublin Co. 1943-48, Dún Laoghaire and Rathdown 1948-; leader, Fine Gael Party 1965-77, Pres. 1977-; Parl. Sec. to the Prime Minister and to Minister for Industry and Commerce 1948-51; Minister for External Affairs 1954-57; Prime Minister 1973-77; Minister for Defence 1976; Chair. and Leader of first Irish Del. to UN Gen. Ass. 1956; Hon. LL.D. (Duquesne Univ., St. John's Univ.) 1956, (De Paul Univ.) 1958, (Nat. Univ. of Ireland and Dublin Univ.) 1974; Knight Grand Cross of Pius IX. *Address:* c/o Fine Gael, 16 Hume Street, Dublin 2, Ireland.

COSSIGA, Francesco, LL.D.; Italian politician; b. 26 July 1928, Sassari; joined Democrazia Cristiana (DC) 1945, Provincial Sec. 1956-58, mem. Nat. Council 1958-, now mem. Comm. for Constitutional Affairs and Exec. Cttee. of DC Parl. Group; mem. Parl. for Cagliari 1963-; Under-Sec. of State for Defence 1966-70; Minister for Public Admin. 1974-76, of the Interior 1976-78; Chair. Parl. Group of DC. *Address:* Partito Democrazia Cristiana, Piazzale Luigi Sturzo 15, 00144 Rome, Italy.

COSSLETT, Vernon Ellis, PH.D., SC.D., F.R.S.; British physicist; b. 16 June 1908, Cirencester; s. of Edgar William Cosslett and Annie Williams; m. 1st Rosemary Wilson 1936 (divorced 1940); m. 2nd Anna Joanna Wischin 1940 (deceased 1969); ed. Cirencester Grammar School, Bristol and London Univs., Kaiser Wilhelm Institut, Berlin-Dahlem; Lecturer, Faraday House Electrical Eng. Coll., London, 1935-39; Keddey-Fletcher Warr Research Student, London Univ. 1939-41; Lecturer, Electrical Lab., Oxford 1941-46; ICI Research Fellow, Cavendish Lab., Cambridge Univ. 1946-49, Lecturer in Physics 1949-65, Reader in Electron Physics 1965-75, Emer. 1975-; Fellow, Corpus Christi Coll., Cambridge 1963-; Pres. Royal Microscopical Soc., London 1961-64, Int. Fed. of Socs. for Electron Microscopy 1972-75; Hon. D.Sc. (Tübingen), Hon. D.Med.Sci. (Gothenburg), Duddell Medal of Inst. of Physics. *Publications:* Introduction to Electron Optics 1946, The Electron Microscope 1947, Bibliography of Electron Microscopy 1950, Practical Electron Microscopy 1951, X-Ray Microscopy (with W. C. Nixon) 1960, Modern Microscopy 1966, Advances in Optical and Electron Microscopy (with R. Barer) 1966. *Leisure interests:* gardening, listening to music, skiing, mountain walking. *Address:* Corpus Christi College, Cambridge University; Old Cavendish Laboratory, Free School Lane, Cambridge University (Offices); 31 Comberton Road, Barton, Cambridge, England (Home). *Telephone:* Comberton 2428; Cambridge 59418; Cambridge 58381.

COSTA, Lucio; Brazilian architect; b. 1902; ed. England, France and Escola Nacional de Belas-Artes, Rio de Janeiro; with Le Corbusier and others designed Brazilian Govt. buildings 1936, with Niemeyer designed Brazilian Pavilion at New York World Fair 1939, won int. competition for design of city of Brasília 1957. *Address:* Brasília, D.F., Brazil.

COSTA, Manuel Pinto da; São Tomé politician; Founded Movement for the Liberation of São Tomé and Príncipe (MLSTP) 1972; Sec.-Gen., MLSTP, based in Gabon 1972-75; Pres. of São Tomé and Príncipe July 1975-; Minister of Agric., Land Reform and Defence 1975-77, of Territorial Admin. 1977-; visited China and North Korea Dec. 1975. *Address:* Office of the President, São Tomé, Sáo Tomé and Príncipe.

COSTANZO, Henry J., M.A.; American international finance official; b. 20 June 1925, Alabama; s. of Joseph and Mary Costanzo; m. Maxine Kruse 1955; two d.; ed. St. Mary's Univ. and Columbia Univ.; Economist, Econ. Co-operation Admin., Italy 1949-52; Asst. U.S. Treasury Rep., Rome 1952-53, Seoul 1954-55; Financial Adviser and Chief of Programme Planning, Int. Co-operation Admin. 1955; Adviser to IMF 1957-61; Economist, Office of Asst. Sec. of Treasury for Int. Affairs 1961; Dir. office of Latin America, Treasury Dept. 1962-67; Dir. Agency for Int. Devt., Seoul, 1967-69; Exec. Dir. for U.S.A. Inter-American Devt. Bank (IDB) 1969-71, Exec. Vice-Pres. 1972-74, Financial Man. 1976-; Exec. Sec. Joint Ministerial Devt. Cttee. IBRD/IMF 1974-76. *Address:* Inter-American Development Bank, 808 17th Street, N.W. Washington, D.C. 20577, U.S.A. *Telephone:* 202-634-8338.

COSTAR, Sir Norman, K.C.M.G.; British diplomatist; b. 18 May 1909; ed. Battersea Grammar School and Jesus Coll., Cambridge; Asst. Principal, Colonial Office 1932-35; Private Sec. to Perm. Under-Sec., Dominions Office 1935; U.K. High Commr.'s Office, Australia 1937-39, N.Z. 1945-47; Dep. High Commr. for U.K. in Ceylon 1953-57; Asst. Under-Sec. Commonwealth Relations Office 1958-60; Dep. High Commr. in Australia 1960-62; British High Commr., Trinidad and Tobago 1962-66, Cyprus 1967-69; Immigration Appeals Adjudicator 1970-. *Address:* c/o Foreign and Commonwealth Office, Downing Street, London, S.W.1, England.

COSTE-FLORET, Paul, D. EN D.; French lawyer and politician; b. 9 April 1911, Montpellier; s. of Jules Coste-Floret and Juliette Pierron; m. Andrée Railhac 1937; one s.; ed. Coll. Saint-François-Régis and Grand Lycée Montpellier, Univs. of Montpellier and Paris; Asst. Prof. Faculty of Law, Paris 1933-37; Prof. Faculty of Law, Algiers 1938; Prof. of Law, Montpellier Univ. 1947; after Armistice one of founders of Resistance Movement organ Combat and mem. of Liberation Assn.; tech. adviser to Comm. for Interior; Sec. to Minister of Justice in Provisional Govt. Algiers 1943; Joint Sec. at Ministry of Justice 1944-45; Sec.-Gen. of Comm. for Reform of Civil Code and then Joint Procurator-General for France at Trials of War Criminals, Nuremberg 1945; Extraordinary Counsellor of State 1945-46; Deputy for L'Hérault 1945-67, Counsellor-Gen. 1967-; Minister of War 1947; Minister for Overseas Territories 1947-50; Minister of Information Jan.-Feb. 1952, of State Jan.-June 1953, of Public Health and Population 1953-54; Mayor of Lamalonles-Bains 1953-59, 1971-; mem. of Finance Comm. of Nat. Ass. 1949; Pres. Comm. Universal Suffrage and Constitutional Laws 1952; associated with newspaper L'Aube and several legal publications; Mayor of Lodève 1959-67; mem. Conseil Constitutionnel 1971-; Head of Faculty of Law and Economics, Univ. of Montpellier 1976-77, Pres. 1977; Officier, Légion d'honneur, Médaille de la Resistance. *Address:* 16 rue du Cardinal-de-Cabrières, 34 Montpellier, France. *Telephone:* (Montpellier) 72-52-47.

COTRUBAS, Ileana; Romanian opera and concert singer; b. Galati; d. of Maria and Vasile Cotrubas; m. Manfred Ramin 1972; ed. Conservatorul Ciprian Porumbescu, Bucharest; Lyric soprano range; début as Yniold in Pelléas et Mélisande at Bucharest Opera 1964; Frankfurt Opera 1968-70; Glyndebourne Festival 1968; Salzburg Festival 1969; Royal Opera House, Covent Garden 1971; Lyric Opera of Chicago 1973; Paris Opera 1974; La Scala, Milan 1975; Metropolitan Opera, New York 1977; operatic roles include Susanna, Pamina, Norina, Gilda, Traviata, Manon, Antonia, Mimi, Mélisande; concerts with all major European orchestras; Lieder recitals at Musikverein Vienna, Royal Opera House, Covent Garden, Vienna State Opera, Metropolitan Opera, La Scala; First Prize, Int. Singing Competition, Hertogenbosch, Netherlands 1965, First Prize, Munich Radio Competition 1966. *Recordings:* Bach Cantatas, Mozart Masses, Brahms Requiem, Mahler Symphonies 2, 8; complete operas, including Calisto, Louise, L'Elisir d'amore, Les Pêcheurs de perles, La Traviata. *Address:* c/o The Royal Opera House, Covent Garden, London, W.C.2, England.

COTTESLOE, 4th Baron, cr. 1874, Baron of the Austrian Empire (Baron Fremantle); **Sir John Walgrave Halford Fremantle,** Bt., G.B.E., T.D., M.A.; British businessman; b. 2 March 1900; s. of 3rd Baron and Florence Cottesloe; m. 1st Lady Elizabeth Harris 1926 (divorced 1945); one s. one d.; m. 2nd Gloria Dunn 1959; one s. two d.; ed. Eton and Trinity Coll., Cambridge; Chair. Thomas Tapling & Co., Heritage in Danger, Tate Gallery 1959-60, Arts Council of

Great Britain 1960-65, Reviewing Cttee. on Export of Works of Art 1954-72, South Bank Theatre Bd. 1962-77, N.W. Metropolitan Regional Hosp. Bd. 1953-60, Nat. Rifle Assn. 1960-72, Hammersmith Hosp. 1967-73, British Postgraduate Medical Fed. 1959-73; Gov. King Edward VII's Hosp. Fund; Fellow Royal Postgraduate Medical School; Pres. Hosp. Saving Assn. 1975; fmr. Vice-Chair. Port of London Authority; fmr. Pres. of Leander Club. *Leisure interests:* rowing, shooting. *Address:* 89 York Mansions, Prince of Wales Drive, Battersea Park, London, S.W.11, England. *Telephone:* 01-435 6626.

COTTIER, Jean; French civil servant; b. 2 Sept. 1912, Chalon-sur-Saône; s. of Pierre Cottier and Jeanne Jouard; m. Yvette Billod 1952; two d.; ed. Lycées Rollin and Henri IV, Sorbonne and Ecole Normale Supérieure, Paris; Insp. of Finances 1941-51; Financial Counsellor, Latin America 1951-53; Deputy Dir. Foreign Finance Dept., Ministry of Finance 1953-57; Financial Counsellor, French Embassy, Washington 1957-61; Alt. Exec. Dir. Int. Bank for Reconstruction and Devt. 1958-61; Deputy Sec.-Gen., Org. for European Econ. Co-operation (OEEC), Org. for Econ. Co-operation and Devt. (OECD) 1961-69; Insp. Gen. of Finances 1967-; Chair. Comm. Export Credit 1970; Head, Service Inspection Générale des Finances 1971; Minister (Financial), French Embassy, London 1971-74; Chair. Banque Française du Commerce Extérieur 1974-77, Hon. Chair. 1977-; Dir. Caisse d'Amortissement pour l'Acier; Officier, Légion d'honneur, Commdr., Ordre du Mérite national, Croix de guerre. *Address:* 21 boulevard Haussmann, 75427 Paris; 2 place de Bagatelle, 92 Neuilly-sur-Seine, France. *Telephone:* 233-4445 (Paris).

COTTON, Fran(cis) Edward; British rugby player; b. 3 Jan. 1948, Wigan; s. of David and Alice (née Halsall) Cotton; m. Patricia Taylor-Walker 1977; ed. Newton-le-Willows Grammar School, Wigan Mining Coll., Loughborough Coll. of Education; played for England Under 25's 1970; joined Senior England side 1971, touring in Far East 1971, South Africa 1972, N.Z. and Fiji 1973, Australia 1975; Toured with British Lions, South Africa 1974, N.Z. 1977; England Capt. 1975; 26 Full England Caps; mem. Coaching Advisory Panel, Rugby Football Union. *Publications:* numerous articles for Rugby World, Rugby News and coaching publications for the Rugby Football Union. *Leisure interests:* all sports. *Address:* 102 Radnormere Drive, Cheadle Hulme, Cheshire, England. *Telephone:* 061-485 8249.

COTTON, Frank Albert, PH.D.; American chemist; b. 9 April 1930, Philadelphia, Pa.; s. of Albert Cotton and Helen M. Taylor; m. Diane Dornacher 1959; two d.; ed. Drexel Inst. of Tech., Temple and Harvard Univs.; Asst. Prof. Mass. Inst. of Tech. (M.I.T.) 1955-60, Assoc. Prof. 1960-61, Prof. 1961-71; Robert A. Welch Distinguished Prof., Texas A & M Univ. 1972-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Royal Danish Acad. of Sciences and Letters; American Chem. Soc. Awards in Inorganic Chem. 1962, 1974, Baekeland Award (N.J. section) 1963, Dwyer Medal (Univ. of N.S.W.) 1966, Centenary Medal (Chemical Soc. London) 1974, Nichols Medal (New York section) 1975, Harrison Howe Award (Rochester section) 1975, Edgar Fahs Smith Award (Philadelphia section) 1976, Pauling Medal (Oregon and Puget Sound Sections) 1976, Kirkwood Medal (Yale Univ.) 1978. *Publications:* Advanced Inorganic Chemistry (with G. Wilkinson, F.R.S.) 3rd edn. 1972, Chemical Applications of Group Theory 2nd edn. 1971, Chemistry, An Investigative Approach 2nd edn. 1973, Basic Inorganic Chemistry (with G. Wilkinson) 1976, approx. 600 research papers. *Leisure interests:* equitation, conservation. *Address:* Department of Chemistry, Tex. A & M University, College Station, Tex. 77843 (Office); Twaghcliffe Ranch, Route 2, Box 230, Bryan, Tex. 77801, U.S.A. (Home). *Telephone:* (713) 845-4432 (Office); (713) 589-2501 (Home).

COTTON, Hon. Sir Robert Carrington, K.C.M.G., A.A.S.A.; Australian politician; b. 29 Nov. 1915, Broken Hill, N.S.W.; s. of H. L. Carrington and Laura Cotton; m. Eve MacDougall 1937; one s. two d.; ed. St. Peter's Coll., Adelaide; fmr. Federal Vice-Pres. Liberal Party of Australia, State Pres. Liberal Party, N.S.W. 1957-60, Acting Pres. 1965; Senator for N.S.W. 1965-78; leader Del. of Fed. Parl. to meetings of Inter-Parl. Union in Majorca and Geneva 1967; Chair. Cottons' Pty. Ltd., Broken Hill; Minister of State for Civil Aviation 1969-72, Minister of Manufacturing Industry, Science and Consumer Affairs Nov.-Dec. 1975, of Industry and Commerce Dec. 1975-78; Consul Gen., New York 1978. *Leisure interest:* golf. *Address:* The Senate, Parliament House, Canberra, A.C.T. (Office); Carrington Park, Oberon, N.S.W. 2787; 13 Cynthea Road, Palm Beach, N.S.W. 2108, Australia (Home).

COTTRELL, Sir Alan (Howard), Kt., PH.D., SC.D., F.R.S.; British scientist and professor of physical metallurgy; b. 17 July 1919, Birmingham; s. of Albert and Elizabeth Cottrell; m. Jean Elizabeth Harber 1944; one s.; ed. Moseley Grammar School and Univ. of Birmingham; Lecturer in Metallurgy, Univ. of Birmingham 1943-49, Prof. of Physical Metallurgy 1949-55; Deputy Head, Metallurgy Div., Atomic Energy Research Establishment, Harwell, Berks. 1955-58; Goldsmiths' Prof. of Metallurgy, Cambridge Univ. 1958-65; Deputy Chief Scientific Adviser (Studies), Ministry of Defence 1965-67, Chief Adviser 1967; Deputy Chief Scientific Adviser to H.M. Govt. 1968-71, Chief Scientific Adviser 1971-74; Master, Jesus Coll., Cambridge 1974-, Vice-Chancellor, Cambridge Univ. 1977-79; Part-time mem. UKAEA 1962-65; mem. Advisory Council on Scientific Policy 1963-64, Cen. Advisory Council for Science and Tech. 1967-; Hon. mem. American Soc. for Metals 1972, Fellow 1974; Hon. mem. The Metals Soc. 1977; Foreign Assoc. Nat. Acad. of Sciences, U.S.A. 1972, Nat. Acad. of Eng., U.S.A. 1976; Foreign Hon. mem. American Acad. of Arts and Sciences 1960; Fellow Royal Soc., (Vice-Pres. 1964, 1976, 1977), Royal Swedish Acad. of Sciences 1970; Hon. Fellow Christ's Coll., Cambridge 1970 (Fellow 1958-70); Hon. D.Sc. (Columbia) 1965, (Newcastle) 1967, (Liverpool) 1969, (Manchester) 1970, (Warwick) 1971, (Sussex) 1972, (Bath) 1973, (Strathclyde and Aston in Birmingham) 1975, (Cranfield Inst. of Tech.) 1975; Sc.D. (Cambridge) 1976; Rosenhain Medal, Inst. of Metals, Hughes Medal, Royal Soc. 1961, Réaumur Medal, Soc. Française de Métallurgie 1964; Inst. of Metals (Platinum) Medal 1965, James Alfred Ewing Medal, ICE 1967, Holweck Medal, Soc. Française de Physique 1969, Albert Sauveur Achievement Award, American Soc. for Metals 1969, James Douglas Gold Medal, American Inst. of Mining, Metallurgy and Petroleum Engineers 1974, Rumford Medal, Royal Soc. 1974, Harvey Prize (Technion, Israel) 1974, Acta Metallurgica Gold Medal 1976, Guthrie Medal and Prize, Inst. of Physics 1977. *Publications:* Theoretical Structural Metallurgy 1948, Dislocations and Plastic Flow in Crystals 1953, The Mechanical Properties of Matter 1964, Theory of Crystal Dislocations 1964, An Introduction to Metallurgy 1967, Portrait of Nature 1975, Environmental Economics 1978, and scientific papers to various learned journals. *Leisure interest:* music. *Address:* The Master's Lodge, Jesus College, Cambridge, CB5 8BL, England. *Telephone:* Cambridge 53310.

COTTRELL, Donald Peery, PH.D.; American university teacher and administrator; b. 17 Feb. 1902, Columbus, Ohio; s. of Dr. Harvey V. Cottrell and Della Stone Miller; m. Eleanor H. Westberg 1928; one s. one d.; ed. The Ohio State Univ. and Columbia Univ.; Public School Teaching and Admin. in Ohio 1923-26; Tutor, Hunter Coll. of the City of New York 1927-29; Asst. and Assoc. in Coll. Admin., Teachers' Coll., Columbia Univ. 1927-29; Asst. Prof. 1929-31, Assoc. Prof. 1931-41, Prof. 1941-46 (Educ.); Asst. Dir., Div. of Instruction 1941-44, Exec. Dir. Horace Mann-Lincoln School 1943-46, Exec. Officer, Div. of Instruction 1946 (all at Teachers' Coll., Columbia Univ.); Dean, Coll. of Educ., The Ohio State Univ. 1946-67, Prof. of Educ. 1967-72, Prof. Emer. 1972-; Expert Consultant, U.S. War Dept. to advise Military Govt. (U.S.) in the field of University Educ. in Germany 1947; Chair. of Comm. to survey the educational insts. of the Foreign Missions Conf. of N. America in the Philippines 1948; Chief UN Educational Planning Mission to Korea 1952-53; Pres. The American Assn. of Colleges for Teacher Educ. 1957; Chair. The Nat. Comm. on Teacher Educ. and Professional Standards of the Nat. Educ. Assn. 1962; Exec. Consultant in Secondary and Teacher Educ. to Ministry of Educ., Govt. of India, and U.S. A.I.D. Mission, India, 1958, 1961, 1964; Chair. Comm. on Educ. for the Teaching Profession 1966; Emer. mem. Bd. of Trustees, Talladega Coll., Alabama. *Leisure interest:* painting (oils and acrylics). *Address:* 6671 Olentangy River Road, Worthington, Ohio 43085, U.S.A. (Home).

COTTRELL, Thomas Edward, B.A.; American petroleum executive; b. 30 July 1920, California; s. of Osceola P. Cottrell and Alva T. Cottrell; m. Laura S. Close 1942; four d.; ed. Colgate Univ. New York; joined Texaco Inc. as Sales Rep. 1946, District Sales Man., Memphis, Tenn. 1957, Div. Sales Man., San Francisco 1962, Regional Sales Man., New York 1965, Gen. Man. (Admin. and Operations) 1968; Vice-Pres. Texaco Services (Europe) Ltd., Brussels 1969; Man. Dir. and Chief Exec. Officer, Texaco Ltd. (Texaco Group of cos. in U.K.) March 1973-. *Leisure interests:* fishing, golf. *Address:* Texaco Ltd., 1 Knightsbridge Green, London, S.W.1, England. *Telephone:* 01-584 5000.

COUCH, John Nathaniel, PH.D.; American teacher and research worker; b. 12 Oct. 1896, Prince Edward, Va.; s. of John Henry Couch and Sallie Love Terry; m. Dorothy Else Ruprecht 1927; one s. one d.; ed. Univ. of North Carolina, Duke Univ., Univ. of Wisconsin, Univ. of Nancy, France; served with U.S. Army 1918-19; Instructor in Botany, Univ. of North Carolina 1917-18, 1922-25, Asst. Prof. 1925-28, Assoc. Prof. 1928-32, Prof. 1932-45, Chair. Botanical Dept. 1944-60, Kenan Prof. of Botany 1945-67, Emer.

1967-; Visiting Prof. Johns Hopkins Univ. 1933-35; Hopkins Tropical Experimental Station, Jamaica 1926; cultural exchange specialist, Dept. of State, India 1961; mem. N.C. Gov.'s Scientific Advisory Cttee. 1961-64; special adviser to Chair. Office of Scientific Advisory Cttee. 1961-64; special adviser to Chair. Office of Scientific Research and Devt. 1944; Assoc. Editor Mycologia 1937-39, Editor Journal Elisha Mitchell Scientific Society 1946-60; discovered sporangia and motile cells in actinomycetales 1949; Vice-Pres. XI Int. Botany Congress, Seattle 1969; mem. numerous socs. including Botany Soc. of America (Chair. S.E. section 1951), American Mycological Soc. (Pres. 1943), Nat. Acad. Sciences, American Soc. of Naturalists, Soc. Gen. Microbiology, N.C. Acad. Science (Pres. 1946-47); Hon. foreign mem. Nat. Acad. Science of India; Fellow American Acad. Arts and Sciences (Vice-Pres., Chair. Botany Section 1962); Hon. Sc.D. (Catawba Coll., Duke Univ. and Univ. of N. Carolina); awards include Jefferson Medal, N. Carolina Acad. of Sciences 1937, Walker Grand Prize in Nat. History 1938, Certificate of Merit, Botany Soc. of America. *Publications:* The Gasteromycetes of the Eastern United States and Canada (with W. C. Coker) 1928, The Genus Septobasidium 1938, numerous articles on botanical subjects. *Leisure interests:* flower and vegetable gardening, foreign and domestic travelling. *Address:* Rocky Ridge Road, Chapel Hill, N.C. 27514, U.S.A. (Home). *Telephone:* 919-942-3097 (Home).

COUDERC, Paul; French astronomer; b. 15 July 1899; ed. Faculté des Sciences, Paris, and Ecole Normale Supérieure; Teacher of Math., Lycée, Chartres 1926-29, then at Lycées Montaigne, Charlemagne and Janson-de-Sailly, Paris 1930-44; Astronomer, Paris Observatory 1944-69, Hon. Astronomer 1970-; fmr. Sec.-Gen. French Nat. Cttee. for Astronomy; fmr. Vice-Pres. Astronomical Soc. of France; Officier de la Légion d'honneur; officier des Palmes académiques; UNESCO Kalinga Prize 1966-67. *Publications include:* L'Architecture de l'univers 1930, Parmi les étoiles 1938, La relativité 1942, l'expansion de l'univers 1952. *Address:* 61 avenue de l'Observatoire, 75014 Paris, France.

COULET, François, L. ÈS L., L. EN D., HON. C.B.E.; French diplomatist; b. 16 Jan. 1906, Montpellier; m. Natalie Sullivan 1945; ed. Univs. of Montpellier and Paris; entered Diplomatic Service 1935; Third Sec. Moscow 1936-37, Second Sec. Helsinki 1937-40; served Free French Forces 1940-44; Private Sec. to Gen. de Gaulle 1941-42; C.O. Free French Airborne Forces in U.K. 1942-43; Sec.-Gen. of Corsica 1943; Commr. of the Repub. for the Liberated Territories of the Normandy Beachhead 1944; in charge of inter-allied relations 1945; Dir. European Dept. (with rank of Minister) Ministry of Foreign Affairs 1946-47; Minister to Finland 1947-50; Amb. to Iran 1950-55, to Yugoslavia 1955-56; granted leave on personal request 1956; volunteered for service in Algeria; Lieut.-Col. C.O. Parachute Regt., French Air Force 1956-60; Minister and Dir. of Political Affairs to Del. Gen., Algiers 1960; Pres. Société Financière de Radio-diffusion 1962-65; Dir. C.G.C.T. 1970; Dir. Pigier 1970-77; Del.-Gen. Fédération Française des Clubs Automobiles 1971-74; Commdr., Légion d'honneur, Croix with 3 palms and gold star, etc. *Publication:* Vertu des temps difficiles 1967. *Address:* 81 boulevard de Port-Royal, 75013 Paris; and Juvanzé, 10140 Vendeuvre sur Barse, France. *Telephone:* (25) 263072.

COULOMB, Jean; French physicist; b. 7 Nov. 1904, Blida, Algeria; s. of Charles Coulomb and Blanche d'Izalguier; m. Alice Gaydier 1928; two s. two d.; ed. Ecole Normale Supérieure; Dir. Institut de Physique du Globe Algiers 1937-41; Dir. Institut de Physique du Globe Paris 1941-56; Prof. at the Sorbonne 1941-72; Visiting Prof. Istanbul Univ. 1954-55; Pres. Int. Assen. of Terrestrial Magnetism and Electricity 1951-54; Dir.-Gen. Centre Nat. de la Recherche Scientifique 1956-62; mem. of Cttee. for Int. Geophysical Year 1957-59; Pres. of Centre Nat. d'Etudes Spatiales 1962-67; Pres. Int. Union of Geodesy and Geophysics 1967-71; Pres. Bureau des Longitudes 1966-69; Vice-Pres. Int. Council of Scientific Unions 1968-72, Pres. 1972-74; mem. French Acad. of Sciences 1960 (Pres. 1977-78), Int. Acad. of Astronautics 1966, Royal Danish Acad. 1969, Acad. Royale de Belgique 1971. *Publications:* La physique des nuages (in collaboration) 1940, La constitution physique de la terre 1952, Physical Constitution of the Earth (in collaboration) 1963, Expansion des fonds océaniques 1969, Sea Floor Spreading and Continental Drift 1972, Traité de géophysique interne, Vol. I 1973, Vol. II 1975 (in collaboration). *Address:* 4 rue Emile Dubois, 75014 Paris, France. *Telephone:* 707-01-54.

COULSON, Sir John Eltringham, K.C.M.G.; British diplomatist; b. 12 Sept. 1909, Gosforth, Northumberland; s. of Henry Coulson and Florence Eltringham; m. Mavis Beazley 1944; two s.; ed. Cambridge Univ.; entered Foreign Service 1932; served Romania 1934-37, Foreign Office, Ministry of Econ. Warfare and War Cabinet 1937-46; Counsellor, Paris 1946-48; Deputy U.K. Rep. OEEC, Paris 1948-50; Deputy Perm. Rep. to UN 1950-52; Asst. Under-Sec. of State, Foreign Office 1952-55; Minister in Washington 1955-57; Adviser to the Paymaster-Gen. 1957-59; Amb. to Sweden 1960-63; Deputy Under-Sec. of State, Foreign Office 1963-64; Chief of Admin., Diplomatic Service 1965; Sec.-Gen. European Free Trade Assen. (EFTA) 1965-72. *Leisure interests:* golf, tennis, fishing. *Address:* The Old Mill, Selborne, Hants, England.

COURCEL, Geoffroy Chodron de, D. EN DR., L. ÈS L., DIP. ECOLE DES SC. POL.; French diplomatist; b. 11 Sept. 1912, Tours; s. of Louis de Courcel and Alice Lambert-Champy; m. Martine Hallade 1954; two s.; ed. Coll. Stanislas and Paris Univ.; Attaché Warsaw 1937; Sec. Athens 1938-39; joined Free French forces June 1940; Chef de Cabinet, Gen. de Gaulle 1940-41; military service in Egypt, Libya and Tunisia 1941-43; Dep. Dir. du Cabinet, Gen. de Gaulle 1943-44; Regional Commr. for Liberated Territories 1944; Deputy Dir. Cen. and Northern European Sections, Ministry of Foreign Affairs 1945-47; First Counsellor Rome 1947-50; Dir. Bilateral Trade Agreements Section, Ministry of Foreign Affairs 1950-53; Dir. African and Middle East Section, Ministry of Foreign Affairs 1953-54; Dir.-Gen. Political and Economic Affairs, Ministry of Moroccan and Tunisian Affairs 1954-55; Perm. Sec. of Nat. Defence 1955-58; Perm. Rep. to N.A.T.O. 1958-59; Sec. Gen. Présidence de la République 1959-62; Amb. to U.K. 1962-72; Ambassadeur de France 1965; Sec.-Gen. French Ministry of Foreign Affairs 1972-75 (retd.); State Rep. Bd. of Compagnie Française des Pétroles 1977; Chair. France-Grande Bretagne 1978; Chair. French section Franco-British Council 1978; Grand Officier, Légion d'honneur, Compagnon de la Libération, Croix de guerre, Mil. Cross, Hon. G.C.V.O., etc.; Hon. D.C.L. (Oxford); Hon. LL.D. (Birmingham). *Publication:* L'influence de la Conférence de Berlin de 1885 sur le droit colonial international 1936. *Leisure interests:* shooting, swimming. *Address:* 7 rue de Medicis, 75006 Paris, France.

COURNAND, André; American physician; b. 24 Sept. 1895, Paris; s. of Jules Cournand and Marguerite Weber; m. 1st Sybille Blumer (died 1959), 2nd Ruth Fabian 1963 (died 1973), 3rd Beatrice Bishop Berle 1975; one s. (deceased) three d.; ed. Sorbonne, Paris; Resident U.S. since 1930; held teaching appointments with Coll. of Physicians and Surgeons, Columbia Univ. 1935-, Prof. of Medicine 1951-64, Emer. 1964-; Chair. cardiovascular study section of Nat. Heart Inst. of Washington; on editorial bd. of Circulation (journal of American Heart Assen.), Journal de Physiologie (Paris), Revue Française d'Etudes Cliniques et Biologiques (Paris), and American Journal of Physiology; mem. several medical and research socs. including American Physiological Soc., Assen. of American Physicians, American Clinical and Climatological Assen., Nat. Acad. of Sciences; Foreign mem. Acad. Nat. de Médecine, Acad. des Sciences, Inst. de France, Acad. Royale de Médicine Belgique; hon. mem. British Cardiac Soc., Royal Soc. of Medicine, Swedish Cardiac Soc., Soc. Médicale des Hôpitaux de Paris; Dr. h.c. (Columbia, Brazil, Brussels, Strasbourg, Lyons and other univs.); Commdr. de la Légion d'honneur; Andreas Retzius Silver Medal of the Swedish Soc. of Internal Medicine 1946, Lasker Award of U.S. Public Health Assen. 1949, John Phillips Memorial Award of American Coll. of Physicians 1952, Gold Medal of Royal Academy of Medicine, Brussels 1956, joint winner Nobel Prize for Medicine 1956, Jiménez Díaz Prize, Madrid 1970, Trudeau Medal, American Thoracic Soc. 1971. *Leisure interests:* collecting paintings, American Alpine Club. *Address:* Columbia University College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032 (Office); 1361 Madison Avenue, New York, N.Y. 10028, U.S.A. (Home). *Telephone:* (212)-694-4031 (Office); (212)-289-4456 (Home).

COURRÈGES, André; French couturier; b. 9 March 1923, Pau (Pyrenees); s. of Lucien Courrèges and Céline Coupe; m. Jacqueline Barrière 1966; one d.; ed. Ecole Supérieure Technique; studied eng., specializing in roads and bridges; moved to Paris and spent year as fashion designer 1945; went to Balenciaga's workrooms 1948 and served 11 years apprenticeship; launched own fashion house in Paris August 1961 and moved to larger premises 1966; launched his "Couture-Future" 1967; "Couture-Future" distributed by stores all over the world and by 45 exclusive boutiques in ten countries including U.S.A., Canada, Venezuela, Japan, Australia. *Leisure interests:* pelote basque, swimming, skiing. *Address:* 40 rue François 1er, 75008 Paris (Office); 27 rue Delabordère, 92 Neuilly-sur-Seine, France (Home).

COURRIER, Robert, D.SC., D.MÉD.; French professor; b. 6 Oct. 1895, Saxon-Sion; m. Juliette Desmots 1923; two d.; ed. Coll. de France, Paris; Prof. of Experimental Morphology and Endocrinology at Coll. de France; mem. Scientific Council, Atomic Energy Comm. 1957-; mem. Inst. de France; mem. Acad. Nat. de Médicine 1941-, Vice-Pres. 1971, Pres. 1972; Pres. of Council, Nat. Natural History Museum 1964-71; foreign mem. Royal Soc. 1953; Dr. h.c. (Brazil, Brussels, Istanbul, Louvain, Athens, Quebec and Geneva);

Perm. Sec., Acad. des Sciences; Grand Officier Légion d'honneur; Médaille d'Or du Centre national de la recherche scientifique. *Publications include:* Endocrinologie de la gestation, and various biographies. *Address:* 3 rue Mazarine, Paris 6e, France. *Telephone:* 326-66-21.

COURSON DE LA VILLENEUVE, Tanguy de, L. EN D.; French diplomatist (retd.); b. 27 April 1911, Kharkhov, Russia; s. of Guy and Elisabeth de Courson de la Villeneuve; m. Francine Bérard 1952; ed. Ecole Libre des Sciences Politiques, Paris Univ.; posts at embassies in London 1937, Brussels 1944, Berlin 1949; Counsellor, The Hague 1952; Deputy Dir. in charge of Saarland Affairs, Direction d'Europe 1953-56; Minister-Del. to Saarbrücken 1957-59, Minister Plenipotentiary 1960; Consul-Gen. Düsseldorf Jan.-Aug. 1960; Minister-Counsellor, French Embassy, Bonn 1960; Head, Dept. of Bilateral Agreements, Ministry of Foreign Affairs 1963-68; Amb. to Democratic Repub. of Congo (Kinshasa) 1968-70; Amb. to Norway 1971-75; Officier, Légion d'honneur, Ordre de Léopold, Ordre de la Couronne, etc. *Address:* Kalina, Place Maure, 06780 Saint-Cézaire, France.

COURT, Hon. Sir Charles Walter Michael, K.C.M.G., O.B.E. (MIL.), M.L.A., F.C.A., F.C.I.S.; Australian politician; b. 29 Sept. 1911, Crawley, Sussex, England; s. of late W. J. Court and Rose R. Court; m. Rita Steffanoni 1936; five s.; ed. Perth; Founder Partner, Hendry, Rae & Court, chartered accountants 1938; served Australian Imperial Forces 1940-46, rising to rank of Lt.-Col.; mem. Legis. Ass. for Nedlands 1953-; Deputy Leader of Opposition W. Australian Parl. 1957-59; Minister for Railways 1959-67, for Industrial Devt. and the N.W. 1959-71, for Transport 1965-66; Deputy Leader of Opposition 1971-72, Leader 1972-73; Premier, State Treas., Minister Coordinating Econ. and Regional Devt., W. Australia April 1974-; State Registrar (W. Australia) Inst. of Chartered Accountants in Australia 1946-52; Senator Junior Chamber Int. 1971; Hon. Col. W. Australia Univ. Regt. 1969; Hon. LL.D. (W. Australia) 1969; Australian Mfrs. Export Council Award 1970, Inst. of Production Engs. Award 1971; Hon. Col. S.A.S. Regt. 1976, Liberal. *Publications:* many papers on industrial, economic and resource development matters. *Leisure interests:* music, occasional appearance as guest conductor. *Address:* Premier's Department, 32 St. George's Terrace, Perth, W. Australia 6000 (Office); 46 Waratah Avenue, Dalkeith, W. Australia 6009, Australia (Home). *Telephone:* Perth 325-3749 (Office); 386-1257 (Home).

COURTENAY, Tom; British actor; b. 25 Feb. 1937; s. of Henry Courtenay and late Anne Eliza Quest; m. Cheryl Kennedy 1973; ed. Kingston High School, Hull, Univ. Coll., London, Royal Acad. of Dramatic Art; started acting professionally 1960; stage performances in Billy Liar 1961-62, The Cherry Orchard 1966, Macbeth 1966, Hamlet 1968, She Stoops to Conquer 1969, Charley's Aunt 1971, Time and Time Again 1972, Table Manners 1974, The Norman Conquests 1974-75, The Fool 1975, The Rivals 1976, Clouds 1978. *Films include:* The Loneliness of the Long Distance Runner 1962, Private Potter 1962, Billy Liar 1963, King and Country 1964, Operation Crossbow 1965, King Rat 1965, Doctor Zhivago 1965, The Night of the Generals 1966, The Day the Fish Came Out 1967, A Dandy in Aspic 1968, Otley 1969, One Day in the Life of Ivan Denisovitch 1972, Catch Me ■ Spy. *Address:* c/o ICM, 22 Grafton Street, London, W.1, England.

COURTHION, Pierre-Barthélemy; French art historian; b. 14 Jan. 1902, Geneva; s. of Louis Courthion and Elisa Bocquet; m. Pierrette Karcher 1927; one d.; ed. Univ. de Genève, Ecole des Beaux-Arts, Paris and Ecole du Louvre; fmr. Asst. Dir. Arts section at Int. Inst. of Intellectual Co-operation of Soc. des Nations and Dir. Archaeological Museum, Valère; fmr. Dir. fondation Suisse dans la Cité universitaire de Paris; fmr. Vice-Pres. Union of French Artistic Press; Vice-Pres. Int. Assen. of Art Critics; mem. Jury of Int. Guggenheim Prize 1960-; Cultural Mission to Brazil and Venezuela 1963, to American Univs. 1965, 1967, 1974, to Canadian Univs. 1969, to Japan and Republic of Korea 1973; Silver Medal Reconnaissance française. *Publications:* Gabriele d'Annunzio 1925, Panorama de la peinture contemporaine 1927, Vie d'Eugène Delacroix 1927, Nicolas Poussin 1929, Claude Lorrain 1932, Courbet (2 vols.), Henri Matisse 1934, Genève ou le portrait des Töpffer 1936, Delacroix 1940, Henri Rousseau de Douanier 1944, Le Visage de Matisse 1945, Bonnard, Peintre du merveilleux 1945, Géricault 1947, Utrillo 1948, Peintres d'aujourd'hui, Raoul Dufy 1951, La Montagne, L'Art indépendant, Montmartre 1955, Paris d'autrefois 1957, Paris des temps nouveaux 1957, Le Romantisme 1961, Manet 1962, Georges Rouault 1962, Autour de l'impressionnisme 1965, Paris de ■ naissance à nos jours 1966, L'Ecole de Paris de Picasso à nos jours 1968, Seurat 1968; Dir. of art films: Ingres peintre du nu 1968, Georges Rouault 1971, Impressionism 1972, Soutine 1973, Pablo Gargallo 1973. *Leisure interests:* mountaineering, mushroom picking and music. *Address:* 11 rue des Marronniers, Paris 16e, France. *Telephone:* 647-58-03.

COUSINS, Rt. Hon. Frank, P.C.; British trade unionist; b. 8 Sept. 1904; ed. King Edward School, Doncaster; service with Transport and General Workers Union; appointed successively Organizer (1938), Nat. Officer (1944), Nat. Sec. (1948) of Road Transport Section; Asst. Gen.-Sec. T. & G.W.U. 1955, Gen. Sec. 1956-64, 1966-69; mem. British Transport Joint Consultative Council 1955-63, Ministry of Labour Nat. Joint Advisory Council 1956-, Exec. Council Int. Transport Workers Fed. 1956-64, Pres. 1958-60, 1962-64, Vice-Pres. 1968-; Chair. Cen. Training Council; Community Relations Comm. 1968-70; elected mem. Gen. Council T.U.C. 1956-64, 1966-69; mem. Dept. Scientific and Industrial Research 1960-66, Export Credits Guarantee Dept., Advisory Cttee. 1962, Nat. Econ. Devt. Council (N.E.D.C.) 1962-69, British Nat. Export Council 1967-69, Central Advisory Council for Science and Tech. 1967-, Nat. Freight Corpn.; Chair. Port of London Trade Devt. Cttee. 1975-; Minister of Tech. 1964-66; M.P. 1965-66; Labour. *Address:* 93 Park Drive, Spotbrough, Doncaster, S. Yorks., England.

COUSINS, Norman, LITT.D., L.D.H., LL.D., D.E.; American editor and author; b. 24 June 1915; ed. Columbia Univ.; educ. writer with New York Evening Post 1935-36; Man. Editor Current History 1936-40; Exec. Editor Saturday Review 1940-42, Editor 1942-71, 1973-77; Editor World Magazine 1972-73; mem. Bd. Dirs. McCall Corpn. and Chair. Editorial Cttee. 1961-70; Editor U.S.A. during Second World War; Chair. Connecticut Fact-Finding Comm. on Educ. 1951-54; Pres. United World Federalists 1954-56, Hon. Pres. 1956-; U.S. Presidential Rep. at Inauguration of Pres. of Philippines 66; Pres. World Assen. of World Federalists 1965-; mem. Bd. of Dirs. UN Assen. of U.S.A., Nat. Educational Television, The Charles F. Kettering Foundation, Samuel H. Kress Foundation; officer of many orgs. *Publications:* The Good Inheritance, A Treasury of Democracy 1941, The Poetry of Freedom (with William Rose Benét) 1943, Modern Man is Obsolete 1945, Talks with Nehru 1951, Who Speaks for Man 1953, In God We Trust 1958, Ed. March's Dictionary Thesaurus 1958, Dr. Schweitzer of Lambaréné 1960, In Place of Folly 1961, Present Tense 1966, The Improbable Triumvirate 1972, The Celebration of Life 1974. *Address:* 488 Madison Avenue, New York 22, N.Y., U.S.A.

COUSINS, Ralph Wynne; American naval officer (retd.); b. 24 July 1915, Eldorado, Okla.; s. of Richard Clyde Cousins and Louise Hennessey Cousins; m. Mary Gordon McBride June 1947; ed. L.L. Wright High School and Ironwood Junior Coll., Ironwood, Mich. and U.S. Naval Acad. Annapolis, Md. Commissioned 1937; Cmmdr. 1945; Commanded Attack Carrier Air Group Eleven 1945-47; Commdr. Naval Air Facility, Annapolis, Md.; 1952-54; Capt. 1955; Deputy Chief of Staff, COMSIXTHFLT 1958-59; Commdg. Officer, U.S.S. Nantahala 1959-60; and U.S.S. Midway 1960-61; Rear-Admiral 1964; Mil. Asst. to Deputy Sec. of Defense 1963-65; Commdr. Carrier Div. Nine 1965-66; Asst. Chief of Staff (Plans), CINCPAC 1966-67; Vice-Adm. 1968; Attack Carrier Striking Forces Seventh Fleet (CTF) 1977 and Commdr. Carrier Div. Five 1967-69; Deputy Chief of Naval Operations (Fleet Operations and Readiness) 1969-70; Adm. 1970; Vice-Chief of Naval Operations 1970-72; Supreme Allied Commdr. Atlantic (NATO) 1972-75; Asst. to Pres. Newport News Shipbuilding and Drydock Co. 1975-77, Pres. 1977-79, Chair. of Bd. 1979-; numerous medals incl. Navy Cross, Distinguished Service Medal with two gold stars, Legion of Merit with gold star, Air Medal with gold star, Presidential Unit Citation, Vietnamese decorations. *Leisure interests:* fly fishing, tennis. *Address:* Newport News Shipbuilding and Drydock Co., Va. 23607, U.S.A.

COUSTEAU, Jacques-Yves; French marine explorer, writer, and film producer; b. 11 June 1910, St. André de Cubzac; s. of Daniel P. and Elizabeth (Duranthon) Cousteau; m. Simone Melchior 1937; two s.; ed. Stanislas Acad., Paris, Brest Naval Acad.; Lieut. French Navy, World War II; partly resonsible for invention of the Aqualung 1943; founder, Groupe d'études et de recherches sous-marines, Toulon 1946; Founder and Pres. Campagnes Océanographiques Françaises, Marseilles 1950; Founder and Pres. Office Français de Recherches Sous-marines, later became Centre d'Etudes Marines Avancées, Marseilles 1952; Leader Calypso Oceanographic Expeditions; Dir. Oceanographic Museum, Monaco 1957-; promoted Conshelf dive programme 1962; Gen. Sec. ICSEM 1966; went on scientific world cruise from Red Sea through Indian Ocean to Pacific, as far as North Alaska, filming TV series The Undersea World of Jacques-Yves Cousteau 1967; led expedition in Antarctic and along Chile coast, filming further TV series 1972; archaeological expedition in Greek waters 1975; mem. Soc. des Gens de Lettres de France 1976; Foreign Assoc. mem. U.S. Nat. Acad. of Sciences 1968; Corresp. mem. Hellenic Inst. of Marine

Archaeology 1975; Fellow, Soc. of Film and TV Arts 1974; Hon. D.Sc. (Berkeley and Brandeis) 1970; Commdr., Légion d'honneur; Croix de guerre avec palmes; Mérite agricole, Mérite maritime; Officer Arts et Lettres; Potts Medal, Franklin Inst. 1970; Gold Medal, Grand Prix d'océanographie Albert Ier 1971; Gold Medal, Nat. Geographic Soc. 1971; Grande Médaille d'Or, Soc. d'encouragement au progrès 1973; Award of New England Aquarium 1973; Prix de la Couronne d'or 1973; Gold Medal "Sciences" (Arts, Sciences, Lettres) 1974; Pollena della Bravura 1974; Prix Manley Bendall, Acad. de Marine 1976; Special Prize of Cervia (Italy) for conservation of marine environment 1976; Int. Pahlavi Environment Prize 1977; numerous awards for documentary films at Festivals in Paris, Cannes, Venice. *Documentary films include:* The Silent World (Motion Picture Acad. Arts and Sciences Award (Oscar) for best documentary feature, and Grand Prix, Palme d'or, Cannes) 1956, The World without Sun (Oscar for best documentary feature) 1956, The Golden Fish (Oscar for the best short film) 1960; TV series: The World of Jacques-Yves Cousteau 1966-68, The Undersea World of Jacques-Yves Cousteau 1968-, South to Fire and Ice, The Flight of Penguins, Beneath the Frozen World, Blizzard at Hope Bay, Life at the End of the World. *Publications:* Par 18 mètres de fond 1946, La Plongée en Scaphandre 1950, The Silent World (Editor with James Duggan) 1952, Captain Cousteau's Underwater Treasury (with James Duggan) 1962, The Living Sea 1962, World Without Sun (with P. Cousteau) 1965, The Shark: Splendid Savage of the Sea (with Ph. Diolé) 1971, Life and Death in a Coral Sea 1971, Diving for a Sunken Treasure 1971, The Whale: Mighty Monarch of the Sea 1972, Octopus and Squid 1973, Galapagos, Titicaca, the Blue Holes: Three Adventures 1973, Diving Companions 1974, Dolphins 1975, The Ocean World of Jacques Cousteau (Encyclopedia, 20 vols.); numerous articles for National Geographic Magazine 1952-66. *Address:* Musée océanographique, avenue Saint-Martin, Monaco-ville M.C., Monaco.

COUTINHO, Vice-Admiral António Alba Rosa; Portuguese naval officer; b. 14 Feb. 1926, Lisbon; s. of António Rodrigues Coutinho and Ilda dos Prazeres Alva Rosa Coutinho; m. Maria Candida Maldonado 1950; three s. one d.; ed. Portuguese Naval Acad., Libson Univ., Scripps Inst. of Oceanography, U.S.A.; commissioned in Portuguese Navy 1947; served on board naval vessels and attended naval courses 1948-54; Hydrographic Engineer, Chief of Hydrographic Mission, Angola 1959-61; in prison in Zaire 1961; several commissions and naval courses 1962-64; Dir. of Dredging Services, Mozambique 1964-72; Commdg. Officer of Frigate Admiral P. Silva 1973-74; mem. Portuguese Armed Forces Movt. 1974, mem. Mil. Junta 1974-75, mem. Supreme Revolutionary Council March-Nov. 1975; Pres. Angola Gov. Junta 1974, High Commr. in Angola 1974-75; suspended from armed services Jan. 1977, found guilty of violating human rights Aug. 1977; Distinguished Services Medal, Mil. Merit; Knight Aviz Order; Commdr. Order of Henry the Navigator; Vasco da Gama Naval Medal; Knight of Spanish Naval Merit. *Leisure interests:* big game hunting, angling, sailing. *Address:* Rua Carlos Macheiro Dias 18, 3° esq., Lisbon, Portugal. *Telephone:* 723638.

COUTSOHERAS, John; Greek lawyer, politician and poet; b. 1904, Ziria, Patras; ed. Univs. of Athens and Paris; called to the Bar 1927; mem. Social Democratic Party 1932; Founder, Gen. Sec. Movt. for Democracy in Greece 1935; Pres. Soc. for the Study of Greek Problems 1956-; mem. Centre Union Party 1961; mem. Parl. for Athens 1964-67, 1974-; under house arrest 1968-70; co-founder mem. Socialist Party 1974; mem. Council of Europe 75; Pres. Greek PEN 1959-; Founder Universal Centre of the World Citizen—Cosmopolitis, Brussels 1970; mem. many literary socs.; Medaglia d'oro di Poesia (Italy) 1969, Grand Prix de la Poésie libre, Syndicat des Journalistes et Ecrivains 1970, Grand Prix de la Poésie, Cercle Int. de la Pensée et des Arts Français 1970, Grand Prix Int. du Disque d'Or, CIPAF 1971, and many others. *Publications:* poetry: Thoughts and Echoes 1942, Blue Breaths 1949, Greek Nights 1954, The Supper of Bethany 1959, The March of the Lilies 1959, Jordan, the Ever Running 1960, Smoke Spiralling Up 1960, Golgotha 1961, Markos Evgenikos 1964, The Man and the Sea 1965, Aphaia 1965, The Charioteer 1966, Men for Human Rights, Arise! 1969, The Golden Fleece 1970, With the Gull's Wing and Poseidon's Trident 1971; essays: Poetry and Language 1954, Mon credo à l'homme libre 1970, and publications on law, economics and politics. *Address:* 60a Skoufa Street, Athens 144, Greece. *Telephone:* 61-35-16.

COUTURE, Jean Désiré; French mining and nuclear energy executive; b. 23 June 1913, Paris; s. of Julien Couture and Mathilde Bouneau; ed. Lycées Montaigne, Saint-Louis and Louis-le-Grand, Ecole Polytechnique and Ecole Nationale Supérieure des Mines de Paris; Engineer 1937-45, Chief Engineer 1945-64 and Engineer-Gen. of Mines 1964-; Dir. Cabinet of the Minister for Industrial Production 1946; Dir. of Industrial Production and Mines of Morocco 1947-48; Deputy Dir.-Gen. Charbonnages de France 1948-49, 1953-63; Deputy Dir.-Gen. Houillères de Bassin du Nord et du Pas-de-Calais 1949-53; Pres. Admin. Council 1957-63, Hon. Pres. 1963; Vice-Pres. Comité consultatif de l'utilisation de l'énergie 1948-63; Pres. Inst. français de l'énergie 1956; Sec.-Gen. for Energy, Ministère de l'Industrie 1963-73; Admin., Société Nationale des Chemins de fer Français 1964-74; Pres. Comm. consultative pour la production d'électricité d'origine nucleaire 1967-73; Pres. Comm. de l'énergie au Commissariat général du Plan 1978; Pres. French Nat. Cttee. of World Energy Conf. 1975-; Senior Adv. to Chair. of Société Générale 1974-; Commandeur Légion d'honneur; Croix de guerre 1939-45. *Address:* 29 bd. Haussmann, 75009 Paris (Office); 13 rue Monsieur, 75007 Paris, France (Home). *Telephone:* 266-54-00 (Office).

COUTURE, Pierre Julien; French mining executive; b. 25 Feb. 1909, Paris; s. of Julien Couture and Mathilde Bouneau; m. Yvonne Galot 1957; two s. three d.; ed. Lycée St. Louis, Ecole Polytechnique and Ecole Nationale Supérieure des Mines de Paris; Engineer, Chief Engineer and Engineer-Gen. of Mines 1933-72; Asst. Dir.-Gen., Houillères de Lorraine 1946-50; Dir.-Gen. Mines de la Sarre 1950-57; Govt. Admin.-Gen., Commissariat of Atomic Energy 1958-63; Adviser, Charbonnages de France 1959-63; mem. Bd. of Admins., Electricité de France 1959-63; mem. Council, Ecole Nat. des Mines de Paris 1959-69; Pres. Council Ecole Nat. des Mines de St-Etienne 1960-73; mem. Devt. Cttee., Ecole Polytechnique 1958-63; Pres. Bd. of Dirs., Les Mines Domaniales de Potasse d'Alsace 1964-67; Pres. Supervisory Bd. Soc. Commerciale des Potasses d'Alsace 1964-68; Pres. Soc. Potasses et Engrais Chimiques 1964-67; Pres. S.A. Pec-Rhin 1967-73, S.A. Tessenderloo-Chemie (Belgium) 1967-76; Pres. Bd. of Dirs. Entreprise minière et chimique 1967-72, Mines de Potasses d'Alsace S.A. 1968-72, SOFDI 1972-76, ENERCO 1974-78, GENERCO 1974-78; Pres. Soc. Industrie Minérale 1978–; Commdr., Légion d'honneur; Officier du Mérite Saharien; Officier des Palmes académiques; Commdr. Ordre Couronne (Belgium). *Leisure interests:* Rotary Club of Paris, shooting, tennis, skiing. *Address:* 22 rue Beaujon, 75008 Paris, France. *Telephone:* 924-37-95.

COUVE DE MURVILLE, (Jacques) Maurice; French politician; b. 24 Jan. 1907; ed. Paris Univ.; Principal Personal Sec. to Gen. Giraud, Algiers; mem. French Cttee. for Nat. Liberation June-Nov. 1943; Commr. for Finance to 1944; Italian Advisory Council 1944; Amb. to Italy 1945; Dir.-Gen. Political Affairs, Foreign Office 1945-50; Amb. to Egypt 1950-54, to U.S.A. 1955-56, to Fed. Repub. of Germany 1956-58; Minister of Foreign Affairs 1958-68, of Finance May-July 1968; Prime Minister July 1968-June 1969; Pres. North Atlantic Council 1967-68; Inspector-Gen. of Finance 1969-; Pres. Foreign Affairs Cttee. of Nat. Ass. 1973-; mediator in Lebanon civil war 1975. *Publication:* Une politique étrangère 1958-69 1973. *Address:* 44 rue du Bac, Paris 7e, France.

COVENEY, James, D.D'UNIV.; British professor of French; b. 4 April 1920; s. of James and Mary Coveney; m. Patricia Yvonne Townsend; two s.; ed. St. Ignatius Coll., Stamford Hill and Univs. of Reading and Strasbourg. Served in Queen's Own Royal West Kent Regt. (Second Lieut.) and Pilot, R.A.F. (Flight-Lieut.) 1940-46; French Govt. Research Scholar, Univ. of Strasbourg 1950-51, Lecteur d'Anglais 1951-53; Lecturer in French, Univ. of Hull 1953-58; Asst. Dir of Examinations (Modern Languages), Civil Service Comm. 1958-59; Translator, UN Secretariat 1959-61; Interpreter and Translator, NATO Secretariat 1961-64; Senior Lecturer and Head of Modern Languages, Univ. of Bath 1964-68, Prof. of French 1969-, Joint Dir. Centre for European Industrial Studies 1969-75; Visiting Prof. Univ. Coll. Buckingham 1974-, Ecole nat. d'Admin. 1975-; Corresp. mem. Acad. des Sciences, Agriculture, Arts et Belles-lettres, Aix-en-Provence 1975; Chevalier, Ordre des Palmes Academiques 1978. *Publications:* La Legende de l'Empereur Constant 1955; Co-author: Glossary of French and English Management Terms 1972, Le Français pour l'Ingénieur 1974, Guide to French Institutions 1978. *Address:* School of Modern Languages, University of Bath, Claverton Down, Bath (Office); 40 Westfield Close, Bath, England (Home). *Telephone:* Bath 6941 (Office); 36670 (Home).

COWDREY, (Michael) Colin, C.B.E.; British cricketer and businessman; b. 24 Dec. 1932, Bangalore, India; s. of Ernest Arthur Cowdrey and Kathleen Mary Cowdrey (née Taylor); m. Penelope Susan Chiesman 1956; three s. one d.; ed. Homefield, Sutton, Tonbridge and Brasenose Coll., Oxford; Capt. of Cricket Team, Oxford 1954, Kent 1957-70, England 25 times since 1959, MCC to West Indies 1968, to Pakistan and Ceylon 1969; Dir. Chiesmans 1962-67, Whitbread Fremlins 1974-; Exec. Barclays Int. 1975-, local

Dir. Barclays, Maidstone; Dir. First Warden Skinners Co.; Chair. Trendan Sports Ltd.; mem. Council, Winston Churchill Memorial Trust 1971-, Australia Soc. 1975-. *Publications:* Cricket Today 1957, Tackle Cricket This Way 1960, Time for Reflection 1963, Incomparable Game 1969, MCC: Life of a Cricketer 1975. *Leisure interest:* golf. *Address:* Kentish Border, Limpsfield, Surrey, England. *Telephone:* 283-8989 (Office); Limpsfield Chart 2377 (Home).

COWEN, Sir Zelman A.K., G.C.M.G., Q.C.; Australian; b. 7 Oct. 1919, Melbourne; m. Anna Wittner 1945; three s. one d.; ed. Scotch Coll., Melbourne, Univ. of Melbourne, Univ. of Oxford; served in Royal Australian Naval Volunteer Reserve 1940-45; consultant to Military Govt. in Germany 1947; Australian Dominion Liaison Officer to Colonial Office 1951-66; Dean of Faculty of Law, Prof. of Public Law, Univ. of Melbourne 1951-66; Vice-Chancellor, Univ. of New England, N.S.W. 1967-70, Univ. of Queensland 1970-77; Gov.-Gen. of Australia Dec. 1977-; Visiting Prof., Univ. of Chicago 1949, Harvard Law School and Fletcher School of Law and Diplomacy 1953-54, 1963-64, Univ. of Utah 1954, Illinois 1957-58, Washington 1959, Univ. of Calcutta, India 1975; Pres. Adult Education Assn. of Australia 1968-70; mem. and (at various times) Chair. Victorian State Advisory Cttee. to Australian Broadcasting Comm.; mem. Devt. Corpn. of N.S.W. 1969-70, Bd. of Int. Assn. for Cultural Freedom 1970-75; Academic Gov. of Bd. of Govs., Hebrew Univ. of Jerusalem 1969-77; a Dir. Aust. Opera 1969-77; mem. Queensland Regional Selection Cttee., Winston Churchill Memorial Trust 1970-Club of Rome 1974-77; Pres. Australian Inst. of Urban Studies 1973; Chair. Bd. of Govs., Utah Foundation 1975-; Law Reform Commr., Commonwealth of Australia 1976-; Chair. Australian Vice-Chancellor's Cttee. 1977-; Trustee Sydney Opera House 1969-70, Queensland Overseas Foundation 1976-77; Foreign Hon. Mem. American Acad. of Arts and Sciences; Hon. Fellow Oriel Coll., New Coll., Oxford, Aust. Nat. Univ., Aust. Inst. of Architects, Aust. Acad. of Social Sciences, Aust. Coll. of Educ., Hon. Master, Gray's Inn Bench 1976; K.St.J. *Publications include:* books on legal and constitutional matters; chapters, articles and essays for books and journals in Australia, U.K., U.S.A., Canada, Europe. *Leisure interests:* travel, public affairs, theatre, music, art. *Address:* Government House, Canberra, A.C.T. 2600, Australia.

COWLES, Gardner, A.B.; American publisher; b. 31 Jan. 1903, Algona, Iowa; s. of Gardner and Florence (Call) Cowles; m. 1st Lois Thornburg (divorced 1946), one s. two d.; m. 2nd Jan Streate Cox 1956, one d.; ed. Phillips Exeter Acad., and Harvard Univ.; City Editor Des Moines Register 1925, News Editor 1926-27; Assoc. Man. Editor Des Moines Register and Tribune 1927, Man. Editor 1927-31, Exec. Editor 1931-39, Assoc. Publisher 1939-43, Pres. 1943-71, Chair. 1971-73; Founder Look magazine 1937; Dir. Emer. United Air Lines; Chair., Ed.-in-chief, Cowles Communications 1937-71, Hon. Chair. 1971-; Vice-Chair. and Trustee, Museum of Modern Art, New York; fmr. mem. Bd. of Overseers of Harvard Univ.; Hon. LL.D. (Drake Univ.) 1942, (Coe Coll.) 1948, (Long Island) 1955, (Grinnell Coll.) 1957; Litt.D. (Iowa Wesleyan Coll.) 1955, (Morningside Coll.) 1958; L.H.D. (Board Coll.) 1950, (Cornell Coll.) 1951; and other hon. degrees. *Leisure interests:* reading, bridge, golf, travel. *Address:* 12 Indian Creek Island, Surfside, Fla. 33154, U.S.A. (Home).

COWLES, John, A.B.; American newspaperman; b. 14 Dec. 1898, Algona, Iowa; s. of Gardner and Florence (Call) Cowles; m. Elizabeth Bates 1923; two s. two d.; ed. Phillips Exeter Acad., and Harvard Univ. Chairman, Minneapolis Star and Tribune 1954-73; Chair. Des Moines Register and Tribune 1945-70; fmr. Dir. Assoc. Press, First Nat. Bank of Minneapolis; mem. Hoover Comm. Nat. Defense Establishment Cttee. 1948; mem. Business Council; Consultant Nat. Security Council 1953; mem. White House Educ. Conf. Cttee. 1954-55; mem. Gen. Advisory Cttee. U.S. Arms Control and Disarmament Agency 1962-69; Trustee Phillips Exeter Acad. 1936-54, American Ass., Ford Foundation 1950-68; Carnegie Endowment for Int. Peace; mem. Bd. of Overseers, Harvard Univ. 1944-50, 1960-66; Hon. LL.D. (Harvard, Grinnell Coll., Boston Univ., Macalester Coll., Allegheny Coll., Rochester Univ., Carleton), Hon. L.H.D. (Simpson Coll., Drake Univ., Coe Coll.), Hon. Litt.D. (Jamestown Coll.); Presidential Certificate of Merit (Lease-Lend Admin.), Centennial Award Northwestern Univ., Award for Distinguished Service in Journalism Univ. of Minnesota. *Address:* Minneapolis Star and Tribune, 425 Portland Avenue, Minneapolis, Minnesota 55415, U.S.A. *Telephone:* 612-372-4141.

COWLES, John Jr.; American publisher; b. 27 May 1929, Des Moines, Iowa; s. of John and Elizabeth Bates Cowles; m. Jane Sage Fuller 1952; two s. two d.; ed. Phillips Exeter Acad. and Harvard Coll.; joined Minneapolis Star and Tribune Co. 1953, Vice-Pres. 1957-68, Pres. 1968-73, Editor 1961-69, Editorial Chair. 1969-73, Chair. 1973-; Pres. Harper's Magazine Inc. 1965-68, Chair. 1968-; Dir. Harper and Row, Publishers Inc. 1965-, Chair. 1968-; Dir. Des Moines Register and Tribune Co. 1960-, Associated Press, Guthrie Theatre Foundation 1960-71, Minneapolis Foundation 1975-77, American Newspaper Publishers Assn. 1975-77, etc.; fmr. Dir. Equitable Life Insurance Co. of Iowa, Phillips Exeter Acad., First Bank System, Inc. (Minneapolis), etc.; Campaign Chair. Minneapolis United Fund 1967. *Address:* 425 Portland Avenue, Minneapolis, Minn. 55413 (Office); 1418 Curve Avenue, Minneapolis, Minn. 55403, U.S.A. (Home).

COWLEY, Malcolm, A.B.; American writer; b. 24 Aug. 1898, Belsano, Pa.; s. of William and Josephine (Hutmacher) Cowley; m. 2nd Muriel Maurer 1932; one s.; ed. Harvard and Montpellier Univs.; Copy writer Sweet's Architectural Catalogue 1920 and 1923-25; free-lance writer 1925-29; Literary Editor The New Republic 1929-40; staff critic 1940-53; literary adviser to the Viking Press 1948-; mem. American Acad. of Arts and Letters (Chancellor 1967-77), Nat. Inst. of Arts and Letters (Pres. 1956-59, 1962-65); Hon. D. Litt. *Publications:* Exile's Return 1934, The Literary Situation 1954, Black Cargoes 1962 (with Daniel P. Mannix), The Faulkner-Cowley File 1966, Think Back on Us 1967, Blue Juniata: Collected Poems 1968, A Many-Windowed House 1970, A Second Flowering 1973, And I Worked at the Writers Trade 1978; trans. Valéry's Variety 1926, Princess Bibesco's Catherine-Paris 1927, Gide's Imaginary Interviews 1944, etc.; Editor: Adventures of an African Slaver 1927, After the Genteel Tradition 1937, Books that Changed our Minds 1939, The Portable Hemingway 1944, The Portable Faulkner 1946, The Portable Hawthorne 1948, The Complete Whitman 1948, The Stories of F. Scott Fitzgerald 1951, Writers at Work 1958, etc. *Leisure interest:* gardening. *Address:* Sherman, Conn. 06784, U.S.A. *Telephone:* 203-354-6636.

COX, Allan, M.A., PH.D.; American geophysicist; b. 17 Dec. 1926, Santa Ana, Calif.; s. of Vernon D. Cox and Hilda Cox; ed. Univ. of California at Berkeley; Geophysicist, U.S. Geological Survey 1959-67; Prof., Stanford Univ. 1967-; Pres. American Geophysical Union; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Vetlesen Prize; Fleming Award of American Geophysical Union; Day Medal, Geological Soc. of America. *Publications:* Rock Glaciers in the Alaska Range (with C. Wahrhaftig) 1959, Long Period Variations of the Geomagnetic Field (with R. R. Doell), 1964, Radiometric Time Scale for Geomagnetic Reversals (with R. R. Doell and G. B. Dalrymple) 1968, The Lengths of Geomagnetic Polarity Intervals 1968, Geomagnetic Reversals 1969, Paleomagnetism of San Cristobal Island, Galapagos 1971, Pacific Geomagnetic Secular Variation (with R. R. Doell) 1971, Magnetism of Pillow Basalts and their Petrology (with M. Marshall) 1971, Plate Tectonics and Geomagnetic Reversals 1973, Frequency of Geomagnetic Reversals and the Symmetry of the Nondipole Field 1975, Ages of the Galapagos Islands 1979. *Leisure interests:* hiking, chopping firewood, theatre, vegetable gardening. *Address:* Department of Geophysics, Stanford University, Stanford, Calif. 94305, U.S.A. *Telephone:* 415-327-3720.

COX, Archibald, A.B., LL.B.; American lawyer; b. 17 May 1912, Plainfield, N.J.; s. of Archibald Cox and Frances Bruen; m. Phyllis Ames 1937; one s. two d.; ed. St. Paul's School, Concord, and Harvard Univ.; admitted to Mass. Bar 1937; in practice with Ropes, Gray, Best, Coolidge and Rugg, Boston 1938-41; Attorney, Office of Solicitor-Gen., U.S. Dept. of Justice 1941-43; Assoc. Solicitor, Dept. of Labor 1943-45; Lecturer on Law, Harvard Univ. 1945-46, Williston Prof. of Law 1946-76; Carl M. Loels Univ. Prof. 1976-; Chair. Wage Stabilization Bd. 1952, Advisory Panel to Senate Cttee. on Educ. and Labour 1958-59; Solicitor-Gen. of U.S. 1961-65; Prosecutor, Watergate Investigation 1973; Pitt Prof. of American History and Insts., Cambridge Univ. 1974-75; mem. American Bar Assn., American Acad. of Arts and Sciences, Bd. of Overseers, Harvard Univ. 1962-65. *Publications:* Law and the National Labor Policy 1960, Cases on Labor Law (8th edn.) 1976, Civil Rights, the Constitution and the Courts 1967, The Warren Court 1968, The Role of the Supreme Court in American Government 1976, and articles in legal periodicals. *Address:* Glezen Lane, Wayland, Mass. 01778, U.S.A.

COX, Sir (Ernest) Gordon, K.B.E., T.D., F.R.I.C., F.INST.P., LL.D., D.SC., F.R.S.; British scientist; b. 24 April 1906, Bath, Somerset; s. of Ernest and Rosina (née Ring) Cox; m. 1st Lucie Baker 1929 (died 1962), 2nd Mary Truter (née Jackman) 1968; one s. one d.; ed. City of Bath Boys' School and Univ. of Bristol; Research Asst. Davy-Faraday Laboratory, Royal Inst. 1927; Asst. Lecturer in Chemistry, Univ. of Birmingham 1929, Lecturer 1932, Senior Lecturer 1939, Reader in Chemical Crystallography 1940; Prof. of Inorganic and Structural Chem., Univ. of Leeds 1945-60; mem. Agricultural Research Council 1957-60, Sec. 1960-71; Vice-Pres. Inst. of Physics 1950-53; Treas. Royal Inst. of Great Britain 1971-76; Hon. Sec.

British Assn. 1971-75; Hon. Assoc. Royal Coll. of Veterinary Surgeons. *Publications:* papers, chiefly on the crystal structures of chemical compounds. *Leisure interests:* gardening, natural history, music, books. *Address:* 117 Hampstead Way, London, NW11 7JN, England. *Telephone:* 01-455 2618.

COX, Sir Trenchard, Kt., C.B.E., D.LITT., F.S.A., F.M.A.; British museum official; b. 31 July 1905; ed. Eton Coll., and King's Coll., Cambridge; Asst. to Keeper, Wallace Collection 1932-39; served 1939-45 war in Home Office; Dir. City Museum and Art Gallery, Birmingham 1944-55; Dir. and Sec. Victoria and Albert Museum 1956-66; Chevalier, Légion d'honneur 1967. *Publications:* Jehan Foucquet 1931, David Cox 1947, Peter Bruegel 1951, Pictures: A Handbook for Collectors 1956. *Address:* 33 Queen's Gate Gardens, London, S.W.7, England.

COXETER, Harold Scott MacDonald, PH.D., LL.D., D.MATH., D.SC., F.R.S., F.R.S.C.; British mathematician; b. 9 Feb. 1907, London; s. of Harold Samuel Coxeter and Lucy (née Gee) Coxeter; m. Hendrina Johanna Brouwer 1936; one s. one d.; ed. King Alfred School, London, St. George's School, Harpenden, and Trinity Coll., Cambridge; Rockefeller Foundation Fellow, Princeton 1932-33; Procter Fellow, Princeton 1934-35; Asst. Prof., Toronto 1936-43, Assoc. Prof. 1943-48, Prof. of Mathematics 1948-; Visiting Prof., Notre Dame 1947, Columbia Univ. 1949, Dartmouth Coll. 1964, Univ. of Amsterdam 1966, Univ. of Edinburgh 1967, Univ. of E. Anglia 1968, Australian Nat. Univ. 1970, Univ. of Sussex 1972, Univ. of Warwick 1976, Calif. Inst. of Tech. 1977, Univ. of Bologna 1978; mem. Koninklijke Nederlandse Akademie van Wetenschappen, Mathematische Gesellschaft in Hamburg, London Mathematical Soc., etc. *Publications:* Non-Euclidean Geometry 1942, Regular Polytopes 1948, 1973, The Real Projective Plane 1949, Introduction to Geometry 1961, Projective Geometry 1946, Twelve Geometric Essays 1968, Regular Complex Polytopes 1974. *Leisure interests:* music, travel. *Address:* 67 Roxborough Drive, Toronto M4W1X2, Ont., Canada.

CRABBE, Hon. Samuel Azu, B.A., LL.B.; Ghanaian judge; b. 18 Nov. 1918; s. of Q. L. Crabbe; m. Dorice Martinson; three s. two d.; ed. Achimota Coll. and Univ. Coll., London; Called to the Bar, Middle Temple 1948; Barrister and Solicitor, Gold Coast Bar 1948-52; mem. Accra Town Council 1950-51; District Magistrate 1953-57, Acting Sr. Magistrate 1957; Acting Chief Registrar, Supreme Court and Acting Registrar, Ghana Court of Appeal 1957-58; Sr. Crown Counsel, Attorney-Gen.'s Office 1958; Acting Solicitor-Gen. 1959; Judge, High Court of Justice 1959-61, Supreme Court 1961; mem. Gen. Legal Council of Ghana 1961, Deputy Chair. 1965-66; Chair. Concessions Tribunal 1962; Justice of Appeal, Court of Appeal for Eastern Africa 1963-65; Judge, Court of Appeal 1966; Chair. Govt. Finance Bd. 1967, Chair. Business Cttee., Constituent Ass. 1968-69; Acting Chief Justice of Ghana 1970, 1972; Justice Supreme Court 1971-77; Chief Justice of Ghana 1973-77; Pro-Chancellor Univ. of Cape Coast, Chair. Univ. Council 1972-76; Justice of the First Demonstration Int. Court of Justice, Belgrade; Chair. Advisory Cttee. Int. Assoc. of Trial Lawyers 1976; Pres. Olympic and Commonwealth Games Assn. of Ghana 1968; Mohammed Ali Jinnah Centenary Medal 1976, Int. Assoc. of Trial Lawyers Gold Medal 1977; Companion Order of the Volta (Ghana) 1977. *Publication:* John Mensah Sarbah (1874-1910), His Life and Works. *Leisure interests:* football, cricket, reading, swimming, golf. *Address:* Hillcrest, nr. Pebuase, P.O. Box 01687, Osu, Accra, Ghana. *Telephone:* 76223.

CRADOCK, Percy, C.M.G.; British diplomatist; b. 26 Oct. 1923; m. Birthe Marie Dyrlund 1953; joined Foreign Office 1954; First Sec. Kuala Lumpur, Malaya 1957-61, Hong Kong 1961-62, Peking 1962-63; Foreign Office 1963-66; Counsellor and Head of Chancery, Peking 1966-68, Chargé d'affaires 1968-69; Head of Foreign and Commonwealth Office Planning Staff 1969-71; Asst. Under-Sec. of State and Head of Cabinet Office Assessments Staff 1971-76; Amb. to German Democratic Repub. 1976-78, to People's Repub. of China 1978-. *Address:* British Embassy, 11 Kuang Hua Lu, Chien Kuo Men Wai, Peking, People's Republic of China. *Telephone:* Peking 52-1961/2/3/4.

CRAIG, Rev. Robert, S.T.M., PH.D., D.D.; British ecclesiastic, university professor and administrator; b. 22 March 1917, Markinch, Fife, Scotland; s. of late John Craig and Anne Peggie Craig; m. Olga Wanda Strzelec 1950; one s. one d.; ed. St Andrews Unv. and Union Theological Seminary, N.Y.; Asst. Minister, St. John's Kirk, Perth 1941-42; British Army Infantry Chaplain 1942-47; Prof. of Divinity, Natal Univ., S. Africa 1950-57, Dean of Coll. 1953-54; Prof. of Religion, Smith Coll., Northampton, Mass., U.S.A. 1958-63; Prof. of Theology, Univ. Coll. of Rhodesia 1963-69, Vice-Principal 1966 and 1969, Principal 1969-70; Principal and Vice-Chancellor, Univ. of Rhodesia 1970-; Hon. Fellow, Rhodesian Inst. of Engineers 1976; Hon. D.D. (St. Andrews) 1967. *Publications:* The Reasonableness of True Religion 1954, Social Concern in the Thought of William Temple 1963, Religion: Its Reality and its Relevance 1965, The Church: Unity in Integrity 1966, Politics and Religion: A Christian View 1972, On Belonging to a University 1974. *Leisure interests:* cinema, theatre, recent and contemporary history, light classical music, listening and talking to people. *Address:* University of Rhodesia, P.O. Box 2702, Salisbury, Zimbabwe Rhodesia. *Telephone:* Salisbury 303211.

CRAIG, Walter Early, A.B., LL.B.; American lawyer and judge; b. 26 May 1909; ed. Stanford Univ.; Law practice 1934-; Assoc. Fennemore, Craig, Allen and Bledsoe 1936-45, Partner 1945-55; Partner Fennemore, Craig, Allen and McClennen 1955-64; Pres. Maricopa County Bar Assn. 1941; mem. Bd. of Govs. 1949-53, Pres. State Bar of Arizona 1951-52; Vice-Pres. Western States Bar Council 1955-56, Pres. 1956-57; House of Delegates 1947-, Board of Govs. 1958-65, Pres. American Bar Assn. 1963-64; Council Inter-American Bar Assn. 1964-70, and Int. Bar Assn. 1964-67; U.S. District Judge Arizona 1963-; Chair. Nat. Conf. of Fed. Trial Judges 1972-73; Trustee Harry S. Truman Educ. Foundation 1975-79; mem. numerous judicial bodies, several hon. degrees, and numerous awards. *Address:* U.S. Court House, Phoenix, Ariz. 85025, U.S.A. *Telephone:* 602-261-3547.

CRAIG, Rt. Hon. William; British politician; b. 2 Dec. 1924; ed. Queen's Univ. Belfast; mem. (Ulster Unionist) Parl. of N. Ireland (Stormont) 1960-72; mem. N. Ireland Ass. 1973-74; Chief Whip 1962-63; Minister of Home Affairs 1963-64, 1966-68; Minister of Health and Local Govt. 1964; Minister of Devt. 1965-66; Leader, Ulster Vanguard 1972-74, Vanguard Unionist Party 1973-77; mem. Parl. East Belfast (United Ulster Unionist Coalition) 1974-; mem. Northern Ireland Convention, East Belfast 1975-76; mem. British Parl. Del. to Council of Europe and to WEU 1977-. *Address:* 23 Annadale Avenue, Belfast 7, Northern Ireland.

CRAM, Donald James, M.S., PH.D.; American professor of chemistry; b. 22 April 1919, Chester, Vt.; s. of Joanna Shelley and William Moffet Cram; m. Jane Maxwell 1969; no c.; ed. Rollins College Fla., Univ. of Nebraska and Harvard Univ.; Researcher, Merck & Co., Rahway, N.J. 1942-45; Instructor, American Chem. Soc. Fellowship, Univ. of Calif., Los Angeles 1947-48, Asst. Prof. 1948-51, Assoc. Prof. 1951-56, Prof. 1956-; Fellow Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Dr. h.c. (Uppsala Univ., Sweden) 1977; A.C.S. Cope Award in Organic Chem. 1965, 1974, 1975, McCoy Award for Contributions to Chem. 1965, 1975; Calif. Scientist of the Year 1974. *Publications:* Organic Chemistry (with Prof. George Hammond and Prof. James Hendrickson), Elements of Organic Chemistry (with Prof. John Richards and Prof. George Hammond), Essence of Organic Chemistry (textbook with Jane M. Cram) 1977, monograph Carbanions, 286 papers in Journal of American Chemical Society and other chemical journals from 1943. *Leisure interests:* tennis, surfing, skiing, guitar. *Address:* Department of Chemistry, University of California, 405 Hilgard Avenue, Los Angeles, Calif. 90024 (Office); 1250 Roscomare Road, Los Angeles, Calif. 90024, U.S.A. (Home). *Telephone:* (213)-825-1562 (Office); (213)-472-8477 (Home).

CRAMÉR, Harald, PH.D.; Swedish university professor; b. 25 Sept. 1893, Stockholm; s. of Carl Cramér and Emily Cramér; m. Marta Hansson 1918; two s. one d.; ed. Stockholm Univ.; mem. of Govt. Cttees. on Insurance Questions 1917-; Prof. of Mathematical Statistics and Actuarial Mathematics, Univ. of Stockholm 1929-58, Pres. 1950-58; Chancellor of Univs. 1958-61; Visiting Prof. Princeton, Yale and Berkeley Univs. 1946-47, Columbia Univ. 1963, Moscow and Leningrad 1963, Berkeley 1966; mem. Royal Swedish Acad. of Science, Norwegian, Danish and Finnish Acads. of Science, American Acad. of Arts and Sciences; Hon. mem Int. Statistical Inst.; Hon. Pres. Swedish Soc. of Actuaries; Hon. D.Sc. (Princeton, Copenhagen, Helsinki, Edinburgh, Paris and Calcutta); Hon. LL.D. (Stockholm); Guy Gold Medal, Royal Statistical Soc., London 1972. *Publications:* Random Variables and Probability Distributions 1937, Mathematical Methods of Statistics 1945, Elements of Probability Theory 1954, Collective Risk Theory 1955, Stationary and Related Stochastic Processes (with M. R. Leadbetter) 1967. *Address:* Sjötullsbacken 15, Blockhusudden, 115 25, Stockholm, Sweden. *Telephone:* 08-62-37-19.

CRAMER, Morgan J.; American business executive; b. 6 Oct. 1906, Monessen, Pa.; s. Morgan J. and Cecilia (Michaels) Cramer; m. Miriam Fuchs 1933; one d.; ed. Lehigh Univ., Bethlehem, Pennsylvania; served in U.S. Army 1943-46; P. Lorillard Co. 1931-66, Sales Dept. 1931-60, Dir. 1958-65, Vice-Pres. 1960-61, Asst. to Pres. 1961, Pres. 1961-62, Pres. and Chief Exec. Officer 1962-65;

Pres. and Chief Exec. Officer Royal Crown Cola Int. Ltd. 1966-68, Chair. of Bd. and Chief Exec. Officer 1969-70; Dir. Greater New York Fund; Pres. and Dir. Morgan J. Cramer Associates Inc. 1970–; Trustee, Polytechnic Hospital, Lehigh Univ. 1973-. *Address:* 530 East 72nd Street, New York, N.Y. 10021, U.S.A.

CRANE, Horace Richard, PH.D.; American professor of physics; b. 4 Nov. 1907, Turlock, Calif.; s. of Horace Stephen Crane and Mary Alice Roselle; m. Florence Rhomer LeBaron 1934; one s. one d.; ed. California Inst. of Tech.; Research Fellow Calif. Inst. of Technology 1934-35; on Faculty of Univ. of Mich. 1935-, Chair. of Dept. of Physics 1965-72; Mass. Inst. of Tech. Radiation Lab. 1940; at Carnegie Inst. of Washington 1941; Henry Russel Lecturer Univ. of Mich.; mem. Standing Cttee. on Controlled Thermonuclear Research, U.S. Atomic Energy Comm. 1969-72; Chair. Bd. of Govs. American Inst. of Physics 1971-75; mem. Comm. on Human Resources 1977-; mem. Council for Int. Exchange of Scholars 1977–; Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences; Distinguished Service Award of Univ. of Mich. 1957, and of Calif. Inst. of Tech. 1968; Davisson-Germer Prize of American Physical Soc. 1968; Oersted Medal of American Assn. of Physics Teachers 1976. *Publications:* over 150 scientific papers on nuclear physics, accelerators, electronics, biophysics and physics education, including Principles and Problems of Biological Growth (Scientific Monthly Vol. 70), Precision Measurement of the g-factor of the Free Electron (with D. Wilkinson, The Physical Review Vol. 121) 1961. *Leisure interests:* ham radio, photography, horticulture. *Address:* Physics Department, University of Michigan, Ann Arbor, Mich. 48104, U.S.A.

CRANSTON, Alan; American politician; b. 19 June 1914, Palo Alto, Calif.; m. Geneva McMath 1940 (divorced 1977); two s.; m. 2nd Norma Weintraub 1978; ed. Mount View High School, Los Altos, Pomona Coll., Univ. of Mexico, and Stanford Univ.; International News Service, England, Germany, Italy, Ethiopia 1937-38; Chief, Foreign Language Div., Office of War Information 1940-44; U.S. Army 1944-45; Nat. Pres. United World Federalists 1949-52; Pres. Calif. Democratic Council 1953-58; Controller of Calif. 1958; re-elected 1962; business career in land investment and home construction; U.S. Senator from Calif. 1969-; Democratic Majority whip in the Senate 1977-. *Publications:* co-author The Big Story (play) 1940, The Killing of the Peace 1945, and numerous articles in newspapers and periodicals. *Leisure interests:* painting in oils, running. *Address:* United States Senate, Washington, D.C. 20510, U.S.A. *Telephone:* 202/224-3553.

CRAWFORD, Bryce, Jr., PH.D.; American professor of chemistry; b. 27 Nov. 1914, New Orleans, La.; s. of Bryce Low Crawford and Clara Hall Crawford; m. Ruth Raney 1940; ed. Stanford Univ.; Nat. Research Council Fellow, Harvard Univ. 1937-39; Instructor, Yale Univ. 1939-40; Asst. Prof., Univ. of Minn. 1940-43, Assoc. Prof. 1943-46, Prof. 1946-, Chair. Dept. of Chem. 1955-60, Dean, Graduate School 1960-72; Fulbright Prof., Oxford Univ. 1951, Tokyo Univ. 1966; Editor Journal of Physical Chemistry 1970-; Chair. Council of Graduate Schools 1962-63; Pres. Assn. of Graduate Schools 1970, Graduate Record Examinations Bd. 1968-72; mem. Nat. Acad. of Sciences (Council 1975-78); mem. American Acad. of Arts and Sciences 1977; American Chem. Soc. (Bd. of Dirs. 1969-77), Coblentz Soc., American Philosophical Soc.; Fellow, American Physical Soc.; Presidential Certificate of Merit 1946; Guggenheim Fellowships 1950, 1972; Fulbright Professorship 1951, 1966; Minn. Award, American Chem. Soc. 1969, Pittsburgh Spectroscopy Award 1977, Ellis Lippincott Award 1978. *Publications:* Articles in scientific journals. *Address:* Molecular Spectroscopy Laboratory, Dept. of Chemistry, University of Minnesota, 207 Pleasant Street SE, Minneapolis, Minn. 55455 (Office); 1545 Branston, St. Paul, Minn. 55108, U.S.A. (Home). *Telephone:* 612-373-9947.

CRAWFORD, Sir John Grenfell, Kt., A.C., C.B.E., M.EC.; Australian economist and administrator; b. 4 April 1910, Sydney; s. of Harry Crawford and Harriet Wood; m. Jessie Morgan 1935; one d.; ed. Univ. of Sydney; Lecturer in Rural Economics, Univ. of Sydney 1934-41; Econ. Adviser, Rural Bank of N.S.W. 1935-43; Adviser, Dept. of War Org. of Industry 1942-43; Dir. of Research, Commonwealth Ministry of Post-War Reconstruction 1943-45; Dir. Commonwealth Bureau of Agricultural Econs. 1945-50; Commonwealth Wool Adviser 1949-55; Sec. Dept. of Commerce and Agriculture, Canberra 1950-56, Dept. of Trade 1956-60; Sr. Consultant to Int. Bank for Reconstruction and Devt. 1964-; Dir. School of Pacific Studies, and Prof. of Econs., Australian Nat. Univ. 1960-67, Vice-Chancellor 1968-73, Chancellor 1976-; Chancellor, Univ. of Papua New Guinea 1972-75; Vice-Chair. Commonwealth Econ. Enquiry 1962-64; Chair. Tech. Advisory Cttee., Int. Agricultural Research, FAO 1971-76; Special Commr. Australian Industries Assistance Comm. 1974-77; Chair. Australian Devt. Assistance Advisory Bd. 1975-; Walter and Eliza Hall Fellow 1933-35; Commonwealth Fund Fellow, U.S.A. 1938-40; Farrer Medallist (and Orator) 1957; Foreign Hon. mem., American Acad. of Arts and Science; Fellow Acad. of Social Sciences in Australia; Fellow, Australian Inst. of Agricultural Science 1958; Hon. D.Sc., Hon. D.Ec., Hon. LL.D., Hon. D.Sc.Ec.; Order of Sacred Treasure (Japan). *Publications:* Australian National Income (with Colin Clark) 1938; War-Time Agriculture in Australia and New Zealand (with C. M. Donald, D. B. Williams and A. A. Ross) 1954; Australian Trade Policy 1942-1966: A Documentary History 1968. *Leisure interest:* reading. *Address:* 32 Melbourne Avenue, Deakin, A.C.T. 2600, Australia.

CRAWFORD, William Avery; American diplomatist; b. 14 Jan. 1915, New York; s. of John Raymond and Pauline Avery Crawford; m. Barbara Gardner 1940; two s. three d.; ed. Haverford Coll., Haverford, Pa., Centro de Estudios Históricos, Madrid, Ecole Libre des Sciences Politiques, Paris, Harvard Coll., Columbia Univ. and Nat. War Coll., Washington, D.C.; Foreign Service 1941-, Havana 1941-44, Dept. of State 1944-45, Moscow 1945-47, Dept. of State 1947-50, Paris 1950-54, Dept. of State 1954-57, Prague 1957-59; Dir. Office of Research and Analysis for Sino-Soviet Bloc, Dept. of State 1959-61; Minister to Romania 1961-64, Amb. 1964-65; Special Asst. for Int. Affairs to Supreme Allied Commdr., Europe, NATO 1965-67; Senior Foreign Service Insp. 1967-70; Editorial Dir. Scholarly Resources Inc. 1970-73; Dir. Foreign Relations WJS, Inc. 1973-; Dir. Foreign Bondholders Protective Council, Inc. 1975-. *Address:* 4402 Boxwood Road, Washington, D.C. 20016, U.S.A. *Telephone:* (301) 229-3880.

CRAXI, Bettino; Italian journalist, writer and politician; b. 24 Feb. 1934, Milan; m. Anna Maria Moncini 1959; one s. one d.; active in Socialist Youth Movement and working on socialist daily and scientific review during 1950s; promoted "autonomist tendency" within Socialist Youth Movement, worked on *Energie nuove* (publ. of autonomist tendency) 1956-; Pres. Nat. Union of Students 1957; mem. Central Cttee. of Italian Socialist Party (PSI) 1957; mem. Community Council of Milan 1960; Pres. Inst. for Science of Public Admin. 1964; Provincial Sec. Milan Fed. of PSI and mem. PSI Nat. Exec. 1965; mem. Chamber of Deputies 1968-; Deputy sec. PSI 1970-76; Gen. Sec. Socialist Party of Italy (PSI) 1976-; Vice-Pres. Socialist Int. 1977-. *Publications:* Socialismo ▪ realtà 1973, Nove lettere da Praga 1973, Socialismo da Santiago ▪ Praga 1976, Costruire il futuro 1977; co-author Inequality in the World 1977 (contributions by Willy Brandt, q.v., Felipe Gonzales, Carlos Andrés Pérez, q.v., Léopold Sédar Senghor, q.v.). *Leisure interests:* Italian history, especially Garibaldi. *Address:* Via Foppa 5, Milan, Italy. *Telephone:* 46-96-757.

CREAN, Frank, B.A., B.COM., A.A.S.A.; Australian accountant and politician; b. 28 Feb. 1916, Hamilton, Victoria; ed. state schools, Melbourne Univ.; Income Tax Assessor for ten years; mem. Victoria Legislative Ass. for Albert Park 1945-47, for Prahan 1949-51; mem. Parl. for Melbourne Ports 1951-77; mem. Fed. Parl. Labor Party Exec. 1956-; Deputy Leader 1975-76; mem. Privileges Cttee. 1967-77, Joint Cttee. on Defence Forces Retirement Benefits Legislation 1970-72; Treas. 1972-74; Minister for Overseas Trade 1974-75; Deputy Prime Minister July-Nov. 1975; mem. several Parl. dels. abroad; Labor Party. *Publication:* Government and Politics (with Byrt) 1973. *Address:* 106 Harold Street, Middle Park, Vic. 3206, Australia.

CREASEY, Lieut.-Gen. Sir Timothy May, K.C.B., O.B.E.; British army officer; b. 21 Sept. 1923, Bexley, Kent; s. of late Lieut.-Col. G. M. and Phyllis Creasey (née Robinson); m. Ruth Annette Friend 1951; two s. one d. (one s. deceased); ed. Clifton Coll., Army Staff Coll., Royal Coll. of Defence Studies; Commissioned Baluch Regt., Indian army 1942; active service in Far East, Italy, Greece 1942-45; transferred to Royal Norfolk Regt. 1946; Instructor, School of Infantry 1951-53; Brigade Major 39th Infantry Brigade, Kenya and Ireland 1955-56; Instructor, Army Staff Coll. 1959-61; Instructor, Royal Mil. Acad., Sandhurst 1963-65; commanded First Batallion Royal Anglian Regt., Aden, and British Army of the Rhine (BAOR) 1965-67, Brigade Commdr., 11th Armoured Brigade, BAOR 1969-70; Student, Imperial Defence Coll. 1971; Commdr. and Chief of Defence Staff, Sultan's Armed Forces, Oman 1972-75; Dir. of Infantry 1975-77; Gen. Officer Commanding and Dir. of Operations, Northern Ireland 1977-; Hashemite Order of Independence (First Class) 1974, Order of Oman (Second Class) 1975. *Leisure interests:* golf, shooting, fishing. *Address:* Headquarters, B.F.P.O. 825, Northern Ireland. *Telephone:* Lisburn 5111.

CREELEY, Robert White, M.A.; American writer and professor of English; b. 21 May 1926, Arlington, Mass.; s. of Oscar Slade and Genevieve (Jules) Creeley; m. 1st Anne McKinnon 1946 (divorced 1955), two s. one d.; m. 2nd Bobbie Louise Hall 1957 (divorced 1976), three d.; m. 3rd Penelope Highton 1977; ed. Univ. of New

Mexico and Harvard Univ.; Instructor Black Mountain Coll. 1954-55; Visiting Lecturer Univ. of New Mexico, Albuquerque 1961-62, Lecturer in English 1963-66, Visiting Prof. 1968-69, 1978, 1979; Lecturer Univ. of British Columbia, Vancouver 1962-63; Prof. of English, State Univ. of New York, Buffalo 1967-, Gray Prof. of Poetry and Letters 1978-; Visiting Prof., San Francisco State Coll. 1970-71; Editor Black Mountain Review 1954-57; American Field Service 1944-45; D. H. Lawrence Fellow 1960, Guggenheim Fellow 1964, 1971; Rockefeller Grantee 1965; Levinson Prize of Poetry Magazine 1960, Blumenthal-Leviton Award of Poetry Magazine 1965. *Publications:* Le Fou 1952, The Immoral Proposition 1953, The Kind of Act of 1953, The Gold Diggers 1954, revised edn. 1965, All That is Lovely in Men 1955, If You 1956, The Whip 1957, A Form of Women 1959, For Love, Poems 1950-60 1962, The Island 1963, Words 1967, Numbers 1968, Pieces 1969, The Charm 1969, A Quick Graph 1970, The Finger 1970, St. Martins 1971, A Day Book 1972, Listen 1972, A Sense of Measure 1973, His Idea 1973, Contexts of Poetry 1973, Thirty Things 1974, Backwards 1975, Presences (with Marisol) 1976, Selected Poems 1976, Mabel: A Story 1976, Myself 1977, Hello 1978, Was That ■ Real Poem and Other Essays 1979; Edited: New American Story (with Donald M. Allen) 1965, The New Writing in the U.S.A. (with Donald M. Allen) 1967, Selected Writings of Charles Olson 1967, Whitman: Selected Poems 1972. *Address:* Clemens 306, State University of New York, Buffalo, N.Y. 14260 (Office); Box 563, Placitas, N.M. 87043, U.S.A. (Home). *Telephone:* 7/6-886-0475 (Office); 505-867-5300 (Home).

CREIGHTON, Donald Grant, C.C., B.A., M.A., D.LITT., LL.D.; Canadian univ. professor; b. 15 July 1902, Toronto; s. of William and Laura Creighton; m. Luella Bruce 1926; one s. one d.; ed. Victoria Coll., Univ. of Toronto and Balliol Coll., Oxford; Lecturer in History, Univ. of Toronto 1927-32, Asst. Prof. 1932-39, Assoc. Prof. 1939-45, Prof. 1945-; Chair. Dept. of History 1955-59; Research Asst. Royal Comm. on Dominion-Provincial Relations 1938-39; John Simon Guggenheim Memorial Fellowship 1940-41; Rockefeller Fellow 1944-45; Nuffield Fellow 1951-52; Pres. Canadian Historical Assen. 1956-57; mem. Historic Sites and Monuments Bd. of Canada; Chair. Canadian Bd. of Editors, Encyclopaedia Americana; Fellow, Royal Soc. of Canada, British Acad., Royal Historical Soc.; mem. Monckton Comm. 1960, Ontario Advisory Cttee. on Confed. 1965; Sir John A. Macdonald Prof. of History, Univ. of Toronto 1965, Univ. Prof. 1967-; numerous hon. degrees; Tyrell Medal for History 1951, Gov.-General's Medal for Academic Non-Fiction 1952 and 1955, Univ. of British Columbia Medal for Popular Biography 1955, Univ. of Alberta Nat. Award in Letters 1957, Molson Prize of Canada Council 1964. *Publications:* The Commercial Empire of the St. Lawrence 1937, Dominion of the North: ■ History of Canada 1944, John A. Macdonald: The Young Politician 1952, John A. Macdonald: The Old Chieftain 1955, Harold Adams Innis: Portrait of ■ Scholar 1957, The Story of Canada 1959, The Road to Confederation: The Emergence of Canada 1863-1867 1964, Canada's First Century 1970, Towards the Discovery of Canada 1972, Canada, the Heroic Beginnings 1974, The Forked Road: Canada 1939-1957 1976, Takeover (novel) 1978. *Leisure interests:* travel, music, water colours. *Address:* 15 Princess Street, Brooklin, Ontario, Canada. *Telephone:* 655-4402.

CREMER, Fritz; German sculptor; b. 22 Oct. 1906, Arnsberg; ed. Hochschule für bildende Künste, Berlin-Charlottenburg; studied in France, England and Italy 1934-39; master's studio, Prussian Acad. of Arts, Berlin 1938; Mil. service (prisoner-of-war) 1940-46; Prof. of Sculpture, Akad. für angewandte Kunst, Vienna 1946; return to Germany 1950; mem. Deutsche Akad. der Künste, Berlin 1950- (Vice-Pres. 1975); Corresp. mem. Accademia Nazionale di San Luca, Rome 1973; Hon. mem. Acad. of Arts, U.S.S.R. 1967; Art Prize of Freie Deutsche Gewerkschaftsbund 1961; Vaterländischer Verdienstorden in Gold 1965; Johannes R. Becher Medal (Gold) 1968; Nat. Prize (1st Class) 1972; Karl Marx Order (Gold) 1974; Held der Arbeit 1976. *Address:* Akademie der Künste der Deutschen Demokratischen Republik, 104 Berlin, Robert-Koch-Platz 7, German Democratic Republic.

CREMIN, Cornelius Christopher, M.A., B.COMM.; Irish diplomatist; b. 6 Dec. 1908; ed. Nat. Univ. of Ireland, British Schools at Athens and Rome, Oxford Univ.; served Paris 1937-43, Berlin 1943-45, Lisbon 1945-46; Asst. Sec. Dept. of External Affairs 1948-50; Irish Del. to O.E.E.C. Conf. 1948; Amb. to France and Head of Irish Del. to O.E.E.C. 1950-54; Amb. to Holy See 1954-56, to the U.K. 1956-58, 1963-64; Perm. Rep. to UN 1964-74; Sec. Dept. of External Affairs, Dublin 1958-62; Chair. Irish Del. to UNCLOS III 1973-; Hon LL.D. (Nat. Univ. of Ireland) 1965; Grand Officier Légion d'honneur; Knight Grand Cross Order of Pius; Grosses Bundesverdienstkreuz. *Address:* Tuosist, Killarney, Co. Kerry, Ireland.

CREMONA, His Honour John Joseph, K.M., LL.D., D.LITT., PH.D., DR.JUR.; Maltese jurist, historian and writer; b. 6 Jan. 1918, Gozo; s. of Dr. Antonio Cremona and Anne Camilleri; m. Beatrice Barbaro 1949; one s. two d.; ed. Malta, Rome, London and Cambridge Univs.; Crown Counsel 1947; Lecturer in Constitutional Law, Royal Univ. of Malta 1947-65; Attorney Gen. 1957-64; Prof. of Criminal Law, Univ. of Malta 1959-65; Prof. Emer. 1965-; Pres. of Council 1972-; Crown Advocate-Gen. 1964-65; Vice Pres. Constitutional Court and Court of Appeal 1965-71; Judge, European Court of Human Rights 1965-; Pro-Chancellor, Univ. of Malta 1971; Chief Justice of Malta, Pres. the Constitutional Court, the Court of Appeal and the Court of Criminal Appeal 1971-; Fellow, Royal Historical Soc.; Hon. Fellow, London School of Econs.; Hon. mem. Real Academia de Jurisprudencia y Legislación (Madrid); Knight of Magisterial Grace, Soverign Mil. Order of Malta; Commdr. Order of Merit (Italy); Knight Commdr. Constantine St. George; Knight Order of St. Gregory the Great. *Publications include:* The Treatment of Young Offenders in Malta 1956, The Malta Constitution of 1835 1959, The Legal Consequences of a Conviction in the Criminal Law of Malta 1962, The Constitutional Development of Malta 1963, From the Declaration of Rights to Independence 1965, Human Rights Documentation in Malta 1966; two volumes of poetry; articles in French, Italian and American law reviews. *Address:* Chambers of the Chief Justice of Malta, Valletta; 5 Victoria Gardens, Sliema, Malta, G.C. *Telephone:* 33203.

CRÉPIN, Général d'Armée Jean-Albert-Emile; French army officer; b. 1 Sept. 1908; ed. Ecole Polytechnique; served China, Cameroun 1933-39; with Free French Army 1940-44, served Chad, Fezzan, Tunisia, France, Germany; served Indo-China 1945; attached to 8th Infantry Div., Paris 1951; Insp.-Gen. of Works and Planning for the Armed Forces 1954-60; Général de Corps d'Armée, Algeria 1959; Commdr. Forces in Algeria 1960-61; Général d'Armée, C-in-C. French Forces in Germany 1961-63; C.-in-C. Allied Forces, Central Europe 1963-66; Pres. Nord-Aviation 1967-69; Pres. Euromissile 1972-75; Vice-Pres. Société Nationale Industrielle Aérospatiale (SNIAS) 1970-73, Counsellor for Military Affairs 1974-75; Grand Officier, Légion d'honneur, Compagnon de la Libération, Croix de guerre (1939-45), Croix de la Valeur militaire. *Address:* 51 rue de l'Assomption, Paris 16e, France.

CRESPIN, Régine; French soprano; b. 23 Feb. 1927, Marseilles; ed. Conservatoire National d'Art Dramatique; Singer, Opéra, Paris 1951-; has sung in principal concert houses, Europe and America; singing teacher, Higher Nat. Conservatory of Music 1976-; Chevalier, Légion d'honneur, Chevalier, Ordre national du Mérite, Commdr. Arts et Lettres. *Address:* c/o Michel Glotz, 141 boulevard Saint-Michel, 75005 Paris, France.

CREWE, Albert Victor, PH.D.; American physicist and professor; b. 18 Feb. 1927, Bradford, England; m. Doreen Crewe; one s. three d.; ed. Liverpool Univ.; Asst. Lecturer, Liverpool Univ. 1950-52, Lecturer 1952-53; Research Assoc. Chicago Univ. 1955-56, Asst. Prof. of Physics 1956-59, Assoc. Prof. 1959-63; Dir. Particle Accelerator Div., Argonne Nat. Lab. 1958-61, Dir. 1961-67; Prof. Dept. of Physics and Biophysics Enrico Fermi Inst., Univ. of Chicago 1963-, Dean, Physical Sciences Div. 1971-(81); constructed England's first diffusion cloud chamber with Dr. W. H. Evans at Liverpool Univ.; directed construction of large magnetic spectrometer for Chicago Univ.'s synchrocyclotron; consultant Sweden, Argentina; directed much of design and construction of Argonne's Zero Gradient Synchrotron; as Dir. Argonne Nat. Lab., developed relationships with U.S. Atomic Energy Comm., Argonne Univ. and Chicago Univ., expressed in Tripartite Agreement; Fellow, American Physical Soc., American Nuclear Soc.; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Scientific Research Soc. for America, Electron Microscopy Soc. of America, Chicago Area Research and Devt. Council (Chair. 1964), Governor's Science Advisory Cttee. for State of Ill.; Immigrant's Service League's Annual Award for Outstanding Achievement in the Field of Science 1962; "Industrial Research Man of theYear 1970"; William E. Wrather Distinguished Professorship Award 1977; Michelson Medal (Franklin Inst.) 1978. *Leisure interests:* archery, sculpture, photography, home design. *Address:* Department of Physics, University of Chicago, Chicago, Ill., U.S.A.

CRICHTON, Sir Andrew James Maitland-Makgill-, Kt.; British shipping executive; b. 28 Dec. 1910, Bryn Garth, Hereford; s. of Lieut.-Col. D. M.-M.-Crichton and Phyllis née Cuthbert; m. Isabel McGill 1948; ed. Wellington Coll.; Man. Dir. P. & O. S. N. Co. 1957-69, Dir. 1970-; Dir. Gen. Steam Navigation Co. Ltd. 1958-68; Chair. Port Employers and Registered Dock Workers Pension Fund Trustees Ltd. 1961-69, Nat. Assen. of Port Employers and Joint Chair. Nat. Council for Port Transport Industry 1958-65, E. Higgs (Air Agency) Ltd. 1963, investigation on the Post Office on

behalf of N.E.D.C. 1965; Vice-Chair. British Transport Docks Bd. 1963-67, Port of London Authority (P.L.A.) 1967-76; Dir. British United Airways Ltd. 1962-68, British India Steam Navigation Co. Ltd. 1961-68; mem. Civil Service Arbitration Tribunal 1963-69, Nat. Freight Corpn. 1968-73, Council, Chamber of Shipping in U.K. 1958-, Industrial Court 1964; Chair. Overseas Containers Ltd. 1965-73; Vice-Pres. Inst. of Transport; mem. Police Council for G.B. 1966-75, Arbitrator 1975-; mem. Court of the Chartered Bank 1970. *Leisure interests:* golf, collecting paintings, music. *Address:* 55 Hans Place, Knightsbridge, London, S.W.1; The Mill House, Earl Soham, Nr. Woodbridge, Suffolk, England. *Telephone:* 01-584 1209 (London); 072-882 330 (Suffolk).

CRICK, Francis Harry Compton, PH.D., F.R.S.; British biologist; b. 8 June 1916; ed. Univ. Coll., London, and Cambridge Univ.; Scientist, Admiralty, Second World War; Medical Research Council (M.R.C.) Student, Strangeways Lab. Cambridge 1947-49: M.R.C. Lab. of Molecular Biology, Cambridge 1949-76; Kieckhefer Distinguished Research Prof., The Salk Inst., La Jolla, Calif. 1977-; Protein Structure Project, Brooklyn Polytechnic, New York 1953-54; Fellow, Churchill Coll., Cambridge 1960-61, Hon. Fellow 1965; Fellow Univ. Coll., London 1962, A.A.A.S.; Foreign Assoc. American Nat. Acad. of Sciences 1969-77; mem. German Acad. of Science 1969; Foreign mem. American Phil. Soc., Phila. 1972; Foreign mem. Académie Française; Foreign Hon. mem. American Acad. of Arts and Sciences 1962, American Soc. Biological Chem. 1963, Hellenic Biochem. and Biophysics Soc. 1974; Hon. MRIA 1964; Hon. FRSC 1969; Nobel Prize for Medicine (with J. D. Watson and M. H. F. Wilkins) 1962; Royal Medal, Royal Soc. 1972; Copley Medal, Royal Soc. 1975. *Publications:* numerous papers and articles on molecular and cell biology; Of Molecules and Men 1967, etc. *Address:* The Salk Inst., 10010 N. Torrey Pines Road, La Jolla, Calif. 92037 (Office); 337 Longden Lane, Solana Beach, Calif. 92075, U.S.A. (Home).

CRISTOFINI, Charles; French civil servant; b. 16 July 1913, Garlin; s. of Louis and Marie (Costeig) Cristofini; m. Solange Demerliac 1939; two d.; with Ministry of Finance 1938-48, Air Ministry 1948; Staff Dir. to M. Bourgès-Maunory 1950-52; Dir. Financial Dept. and Programmes, Ministry of Nat. Defence and Armed Forces 1952-55; Asst. Sec.-Gen. Western European Union 1955-59; founded Soc. pour l' Etude et la Réalisation d'Engins Balistiques (SEREB) 1959, Pres., Man. Dir. until 1969; Special Adviser to Pres. Soc. Nat. Industrielle Aérospatiale 1970, Pres. of Directorate 1974-75; Commdr. Légion d'honneur. *Address:* 3 rue Ernest-Hébert, 75016 Paris, France.

CRISTOL, Stanley Jerome; American professor of chemistry; b. 14 June 1916, Chicago, Ill.; s. of Myer J. and Lillian (Young) Cristol; m. Barbara Wright Swingle 1957; one s. one d.; ed. Northwestern Univ. and Univ. of California, Los Angeles; Asst. in Chem., Univ. of Calif. at Los Angeles (UCLA) 1937-38, 1941-42; Research Chemist, Standard Oil Co. of Calif. 1938-41; Instructor, UCLA 1942-43; Post-doctoral Fellow, Univ. of Ill. 1943-44; Research Chemist, Bureau of Entomology and Plant Quarantine U.S. Dept. of Agriculture 1944-46; Univ. of Colo., Asst. Prof. 1946-49, Assoc. Prof. 1949-55, Prof. 1955-, Chair. Dept. of Chem. 1960-62; mem. Nat. Acad. of Sciences; Guggenheim Fellow 1955-56; Robert L. Stearns Award 1971; James Flack Norris Award of the American Chemical Soc. 1972. *Publications:* Organic Chemistry 1966 (with L. O. Smith, Jr.), numerous articles in scientific journals. *Leisure interests:* skiing and fishing. *Address:* Department of Chemistry, University of Colorado, Boulder, Colo. 80309 (Office); 2918 Third Street, Boulder, Colo. 80302, U.S.A. (Home).

CRITCHFIELD, Charles Louis, PH.D.; American physicist; b. 7 June 1910, Shreve, Ohio; s. of Roy and Clara (Prince) Critchfield; m. Jean La Zelle Anderson 1935; three s. one d.; ed. Eastern High School, George Washington Univ.; with Nat. Bureau of Standards 1930-37; Instructor Univ. of Rochester 1939-40; Nat. Research Fellow Princeton Univ. and Inst. for Advanced Study 1940-41; Instructor Harvard Univ. 1941-42; physicist, Geophysical Lab. 1942-43; group leader Los Alamos 1943-46; Assoc. Prof. George Washington Univ. 1946; physicist, Monsanto Chemical Co., Oak Ridge, Tenn. 1946-47; Assoc. Prof. Univ. of Minnesota 1947-49, Prof. of Physics 1949-55; Dir. of Scientific Research, Convair Div. of Gen. Dynamics Corpn. 1955-60; Vice-Pres. Research Telecomputing Corpn. 1960-61; assoc. division leader Theoretical Physics Division, Los Alamos Scientific Lab. 1961-77; mem. Editorial Bd. Annual Review of Nuclear Science 1957-61; Assoc. Editor Journal of the Franklin Inst. 1956-62; Assoc. Editor Physical Review 1951-54; Fellow American Physical Soc.; Nat. Research Fellowship 1940. *Publications:* Theory of Atomic Nucleus and Nuclear Energy Sources (with G. Gamow) 1949, and many papers. *Leisure interests:* chess, golf. *Address:* Theoretical Division, Los Alamos Scientific Laboratory, Los Alamos, N.M. (Office); 391 El Conejo, Los Alamos, N.M. 85474, U.S.A. (Home). *Telephone:* 662-7336.

CRITCHLEY, Macdonald, C.B.E., M.D., F.R.C.P.; British consulting neurologist; b. 2 Feb. 1900, Bristol; s. of Arthur Frank and Rosina Matilda Critchley; m. 1st Edna Auldyth Morris (deceased); m. 2nd. Eileen Hargreaves; two s.; ed. Christian Brothers Coll., Bristol, Univ. of Bristol; Physician, National Hospital, London 1927-65; Neurologist, King's Coll. Hospital, London 1927-65; Consulting Neurologist to the Royal Navy 1939-77; Pres. World Fed. of Neurology 1965-73; Master, Worshipful Soc. of Apothecaries of London 1956-57; Hon. Fellow, American Coll. of Physicians; Hon. M.D. (Zurich and Aix-Marseille); Orton Award for work on dyslexia. *Publications:* Mirror Writing 1927, Shipwreck Survivors 1942, Biography of Sir William Gowers 1949, Parietal Lobes 1953, Developmental Dyslexia 1964, The Dyslexic Child 1963, 1970, Aphasiology 1970, Silent Language 1976, Music and the Brain 1977, Dyslexia Defined 1978. *Leisure interests:* reading and writing. *Address:* National Hospital, Queen Square, London WC1N 3BG, England. *Telephone:* 01-837 3611.

CRITCHLEY, Thomas Kingston, A.O., C.B.E., B.EC.; Australian diplomatist; b. 1916, Melbourne; s. of the late G. L. Critchley; m. Susan Cappel 1962; four d.; ed. North Sydney Boys' High School and Sydney Univ.; Asst. Econ. Adviser, Dept. of War Org. of Industry 1943-44; Head, Research Section, Far Eastern Bureau, New Delhi, British Ministry of Information 1944-46; Head, Econ. Relations Section, Dept. of External Affairs, Canberra 1946-47; Australian Rep. UN Cttee. of Good Offices on Indonesian Question 1948-49; Rep. UN Comm. for Indonesia 1949-50; Acting Australian Commr. Malaya 1951-52; Rep. UN Comm. for Unification and Rehabilitation of Korea (UNCURK) 1952-54; Head, Pacific and Americas Branch, Dept. of External Affairs, Canberra 1954-55; Commr. Fed. of Malaya 1955-57, High Commr. 1957-63, High Commr. in Malaysia 1963-65; Senior External Affairs Rep., Australian High Comm., London 1966-69; Amb. to Thailand 1969-74; High Commr. of Papua New Guinea 1974-75; Australian High Commr. in Papua New Guinea 1975-78; Amb. to Indonesia 1978-; Officer of The Order of Australia 1976. *Leisure interests:* golf, tennis, flying. *Address:* Australian Embassy, 15 Jalan Thamrin, Jakarta, Indonesia; c/o Department of Foreign Affairs, Canberra, Australia.

CRNOBRNJA, Bogdan; Yugoslav diplomatist; b. 16 Dec. 1916, Vrgin Most; s. of Mihailo Crnobrnja and Saveta Cumura; m. Angelina Grabric 1944; two s.; ed. Teacher's Coll.; temporarily employed as teacher and studied philosophy; Col. in Nat. Liberation Struggle, Second World War; mem. Parl. 1945-49, 1949-53; Deputy Minister for Foreign Trade 1946-51; Deputy Minister for Foreign Affairs 1951-54, 1958-61; Amb. to India 1954-58; Sec.-Gen. to Pres. of Yugoslavia 1961-67; Amb. to U.S.A. 1967-71; Pres. Cttee. for Social Planning and Devt. Policy at Fed. Ass.; Special Counsellor to Bd. of Machinery and Equipment Mfrs., Belgrade (Pres. until 1975); Yugoslav and foreign decorations. *Leisure interests:* fishing, hunting. *Address:* Nemanjina 4/x, 11000 Belgrade, Yugoslavia.

CROCKER, Sir Walter Russell, K.B.E.; Australian diplomatist; b. 25 March 1902, Broken Hill; s. of Robert Crocker and Alma Bray; m. Claire Ward 1951 (dissolved 1968); two s.; ed. Balliol Coll., Oxford, Univ. of Adelaide, Australia, and Stanford Univ., California; with British Colonial Service 1930-34, L.N. and I.L.O. 1934-40; served army 1940-46; with U.N. 1946-49; Prof. of Int. Relations, Australian Nat. Univ. 1949-52, Acting Vice-Chancellor 1951; High Commr. for Australia in India 1952-55; Amb. to Indonesia 1955-57; High Commr. in Canada 1957-59; High Commr. in India 1959-62 and Amb. to Nepal 1960-62, to the Netherlands and Belgium 1962-65, to Ethiopia and High Commr. to Kenya and to Uganda 1965-67, to Italy 1967-70; Lieut.-Gov. of S. Australia 1973-; Croix de guerre, Order of the Lion (Belgium), Knight Grand Cross of Italy, Grand Officier, Ordre nationale du Mérite, Order of Malta. *Publications:* The Japanese Population Problem 1931, Nigeria: Critique of Colonial Administration 1936, On Governing Colonies 1946, Self-Government for Colonies 1949, Can the U.N. Succeed? 1951, The Racial Factor in International Relations 1955, Nehru 1966, Australian Ambassador 1971. *Leisure interests:* gardening, music. *Address:* 256 East Terrace, Adelaide, South Australia 5000, Australia.

CROHAM, Baron (Life Peer), cr. 1978, of the London Borough of Croydon; **Douglas Albert Vivian Allen,** G.C.B.; British civil servant; b. 15 Dec. 1917, Surrey; s. of Albert Allen and Elsie Maria (née Davies); m. Sybil Eileen Allegro 1941; two s. one d.; ed. Wallington County Grammar School and London School of Econs.; Asst. Principal, Bd. of Trade 1939; served Royal Artillery 1940-45; Principal, Bd. of Trade 1945, Cabinet Office 1947, Treasury 1948;

Asst. Sec., Treasury 1949-58; Under-Sec., Ministry of Health 1958-60, Treasury 1960-62; Third Sec., Treasury 1962-64; Deputy Under-Sec. of State, Dept. of Econ. Affairs 1964-66, Second Perm. Under-Sec. of State 1966; Perm. Under-Sec. of State, Dept of Econ. Affairs 1966-68; Perm. Sec., Treasury 1968-74; Head Home Civil Service, Perm. Sec. Civil Service Dept. 1974-77; Chair. Econ. Policy Cttee., Org. for Econ. Co-operation and Devt. 1972, Deputy Chair. BNOC 1978-; Adviser to Gov., Bank of England 1978-; Dir. (non-exec.) Pilkington Bros. 1978-; (Home) Trustee Anglo-German Foundation 1977-; Adviser, Bank of England. *Leisure interests:* tennis, woodwork. *Address:* 9 Manor Way, South Croydon, Surrey, England. *Telephone:* 01-688 0496 (Home).

CROMER, 3rd Earl of; **George Rowland Stanley Baring,** K.G., G.C.M.G., M.B.E., P.C.; British merchant banker and financial administrator; b. 28 July 1918; ed. Eton Coll., and Trinity Coll., Cambridge; served with Grenadier Guards, rising to rank of Lt. Col. 1939-46; Man. Dir. Baring Brothers and Co. Ltd. 1947-58, 1967-70, Adviser 1974-; Econ. Minister and Head of U.K. Treasury Del., Washington, U.K. Exec. Dir. IMF., Int. Bank for Reconstruction and Devt., Int. Finance Corpn. 1959-61; Gov. Bank of England 1961-66; U.K. Gov., Int. Bank for Reconstruction and Devt., Int. Finance Corpn., Int. Devt. Assn. 1963-66; Partner Baring Brothers and Co. Ltd.; Dir. Union Carbide Corpn. 1967-71; Chair. IBM (U.K.) Ltd. 1967-71, 1974-79, Dir. IBM World Trade Corpn. 1977–, mem. IBM European Advisory Council 1974-; Chair. Int. Advisory Council, Morgan Guaranty Trust Co. 1978-; Amb. to U.S.A. 1971-74; mem. Bd. Cie. Financière de Suez, Paris; Dir. Shell Transport and Trading Co. 1974-; mem. Bd. P. & O. Steam Navigation Co. 1974-, Imperial Group Ltd., Daily Mail and General Trust Ltd., Supervisory Bd. ROBECO Group; Hon. LL.D. (New York) 1966. *Address:* 88 Leadenhall Street, London, EC3A 3DT, England. *Telephone:* 01-588 2830.

CRONIN, Archibald Joseph, M.D., M.R.C.P., D.PH.; British physician and writer; b. 19 July 1896, Helensburgh, Dumbarton; s. of Patrick Cronin and Jessie Montgomerie; m. Agnes Gibson 1921; three s.; ed. Glasgow Univ.; practised medicine until 1930; Hon. D.Litt. Bowdoin Coll. and Lafayette Coll. *Publications:* Hatter's Castle, Three Loves, Grand Canary, The Stars Look Down, The Citadel, Jupiter Laughs (play), The Keys of the Kingdom, The Green Years, Shannon's Way, The Spanish Gardener, Adventures in Two Worlds, Beyond this Place, Crusaders' Tomb, The Northern Light, The Judas Tree, A Song of Sixpence, A Pocketful of Rye, The Minstrel Boy, The Lady with Carnations 1976; creator Dr. Finlay's Casebook. *Leisure interests:* golf, salmon-fishing, gardening. *Address:* Champ-Riond, Baugy sur Clarens, VD, Switzerland. *Telephone:* (021)-61-50-43.

CRONKITE, Walter Leland, Jr.; American television correspondent; b. 4 Nov. 1916, St. Joseph, Missouri; s. of W. L. Cronkite (deceased) and Helene Fritsche; m. Mary Elizabeth Maxwell 1940; one s. two d.; ed. Univ. of Texas; News writer and Editor, Scripps-Howard & United Press, Houston, Kansas City, Dallas, Austin, El Paso and New York; United Press War Corresp. 1942-45, later Foreign Corresp., Chief Corresp. Nuremberg War Crimes Trials, Bureau Man., Moscow 1946-48; Lecturer 1948-49; CBS, television commentator 1950-; News Analyst, CBS T.V. News 1950-, Man. Editor CBS Evening News with Walter Cronkite; Narrator for Twentieth Century; Emmy Award, Acad. TV Arts and Sciences 1970, George Polk Journalism Award 1971, and other awards. *Leisure interest:* yachting. *Address:* Columbia Broadcasting System Inc., 524 West 57th Street, New York, New York 10019, U.S.A. (Office).

CROSBY, John Campbell; American writer; b. 18 May 1912, Milwaukee, Wis.; s. of Frederick and Edna (née Campbell) Crosby; m. Katherine Blachford Wood 1964; two s. two d.; ed. Exeter, Yale Univ.; Reporter Milwaukee Sentinel 1933, New York Herald Tribune 1935-41, syndicated columnist 1946-65; U.S. Army 1941-46; columnist Observer, London 1965-; John Crosby TV Programme (New York); Peabody Award, Newspaper Guild Award. *Publications:* Out of the Blue 1952, With Love and Loathing 1963, Sappho in Absence 1970, The Literary Obsession 1973, The White Telephone 1974, An Affair of Strangers 1975, Nightfall 1976, The Company of Friends 1977, Dear Judgment 1978. *Leisure interests:* skiing, reading, movies, carpentry, farming, riding. *Address:* Esmont, Va. 22937, U.S.A.

CROSS, G(eorge) L(ynn), M.S., PH.D.; American university president and professor; b. 12 May 1905, Woonsocket, S. Dakota; s. of George Washington Cross and Jemima Jane Dawson; m. Cleo Sikkink 1926; two s. one d.; ed. South Dakota Coll., and Univ. of Chicago.; Instructor Bacteriology, South Dakota State Coll. 1927-28; Head Botany Dept., Univ. of South Dakota 1930-34; Prof. of Botany, Univ. of Oklahoma 1934-38, Head of Botany Dept. 1938-42, Act. Dean Graduate Coll. 1942-44, Act. Dir. Research Inst. 1942-44, Pres. of the Univ. 1944-68; Chair. Bd. American Exchange Bank, Norman, Okla. 1964-; Pres. Oklahoma Health Sciences Foundation 1968-; mem. of many learned socs. *Leisure interests:* golf, art, music, writing. *Address:* 812 Mockingbird Lane, Norman, Okla. 73071, U.S.A. *Telephone:* 405-321-4527.

CROSS, Richard Eugene; American lawyer and automobile executive; b. 20 Sept. 1901; ed. St. Thomas Military Acad., Assumption Coll., Univ. of Wisconsin and Univ. of Michigan; Chair., Bd. of Dirs. American Motors Corpn. 1962-66, now mem. Finance and Audit Cttees. and Dir.; Legal Counsel, Cross, Wrock, Miller & Vieson (lawyers); Dir. Hiram Walker-Gooderham & Worts Ltd., Mfrs. Life Insurance Co., Gen. Real Estate Shares Inc., Mountain States Pipe and Supply Co., The Packer Corpn. *Address:* 4200 Penobscot Building, Detroit, Mich. (Office); 20008 Lichfield Road, Detroit 21, Mich., U.S.A. (Home).

CROSS OF CHELSEA, Baron (Life Peer), cr. 1971; **Geoffrey Cross,** P.C.; British judge (retd.); b. 1 Dec. 1904, Chelsea, London; s. of Arthur G. Cross and Mary E. Dalton; m. Joan Eardley Wilmot 1952; one d.; ed. Westminster School and Trinity Coll., Cambridge; Fellow, Trinity Coll., Cambridge 1927; called to the Bar 1930; K.C. 1949; Judge, Chancery Div., The High Court 1960-69; Lord Justice of Appeal 1969-71; Lord of Appeal in Ordinary 1971-75; Chair. Appeal Cttee. of City Take-over Panel, Cttee. on Accountancy. *Address:* The Bridge House, Leintwardine, Craven Arms, Salop, England.

CROSSLAND, Sir Leonard, Kt.; British motor executive; b. 2 March 1914; s. of Joseph and Frances Crossland; m. 1st Rhona Griffin 1941; m. 2nd Joan Brewer 1963; two d.; ed. Penistone Grammar School; Purchase Dept. Ford Motor Co. Ltd. 1937-39; Royal Army Service Corps 1939-45; Purchase Dept., Ford Motor Co. Ltd. 1945-54, Chief Buyer, Tractor and Implement Dept. 1954-57, Chief Buyer, Car and Truck Dept. 1957-59, Asst. Purchase Man. 1959-60, Purchase Man. 1960-62, Exec. Dir. 1962-68, Supply and Services 1962-66, Dir. Mfg. Staff and Services 1966, Asst. Man. Dir. 1966-67, Man. Dir. June-Dec. 1967, Deputy Chair. Jan.-May 1968, Chair. May 1968-72; mem. Board Eaton Corpn., U.S.A. 1974-; Chair. Eaton Ltd. U.K., Sedgeminster Tech. Devts. Ltd. *Leisure interests:* fishing, shooting, golf. *Address:* Abbotts Hall, Great Wigborough, Colchester, Essex, England. *Telephone:* Peldon 456.

CROW, James F(ranklin), PH.D.; American geneticist; b. 18 Jan. 1916, Phoenixville, Pa.; s. of H. E. Crow and Lena Whitaker Crow; m. Ann Crockett 1941; one s. two d.; ed. Friends Univ. (Wichita, Kan.) and Univ. of Texas; Instructor and Asst. Prof. Dartmouth Coll. 1941-48; Asst. Prof., Assoc. Prof., Prof., Dept. of Genetics, Univ. of Wisconsin, 1948-, Chair. of Dept. 1959-63, 1965-72, 1975-77; Acting Dean, Medical School, Univ. of Wis. 1963-65; mem. Nat. Acad. of Sciences; Pres. Genetics Soc. of America 1959, American Soc. of Human Genetics 1967. *Publications:* Genetics Notes (7th edn.) 1976; various technical articles on genetics; Introduction to Population Genetics Theory 1970. *Leisure interest:* orchestral and chamber music. *Address:* 24 Glenway, Madison, Wis. 53706, U.S.A. (Home).

CROWE, Sir Colin Tradescant, G.C.M.G.; British diplomatist; b. 7 Sept. 1913, Yokohama, Japan; s. of Sir Edward Crowe, K.C.M.G.; m. Bettina Lum 1938; ed. Stowe School and Oriel Coll., Oxford; served Embassy Peking 1936-38, 1950-53, Shanghai 1939-40, Washington 1940-45; mem. U.K. Del. to OEEC Paris 1948; served Tel-Aviv Legation 1949, Imperial Defence Coll. 1957; Chargé d'Affaires Cairo Dec. 1959-61; Dep. Perm. Rep. to UN 1961-63; Amb. to Saudi Arabia 1963-64; Chief of Admin., Diplomatic Service 1965-68; High Commr. in Canada 1968-70; Perm. Rep. to UN 1970-73; Supernumerary Fellow, St. Antony's Coll., Oxford 1964-65; Chair. Marshall Aid Commemoration Comm. 1973-, Council Cheltenham Ladies Coll. 1974-; Vice-Chair. Council Cttee., Univ. Coll., London; Dir. Grindlays Bank Ltd. 1976-. *Leisure interests:* bird watching, gardening. *Address:* Pigeon House, Bibury, Glos., England.

CROWN, Henry; American business executive; b. 13 June 1896, Chicago; s. of Arie and Ida (Gordon) Crown; m. 1st Rebecca Kranz 1920 (died 1943), three s. (one s. died 1969); m. 2nd Gladys Kay 1946; ed. Chicago; Clerk Chicago Firebrick Co. 1910-12; Traffic Man. Union Drop Forge Co. 1912-16; Partner S.R. Crown & Co. 1916-19; Treasurer, Material Service Corpn. 1919-21, Pres. 1921-41, Chair. 1941-59; Chair. Material Service Div. of Gen. Dynamics Corpn., Chair. Exec. Cttee. and Dir. 1959-66, 1970-; Chair. Bd., Henry Crown & Co. 1967-; Dir. Waldorf Astoria Corpn.; Vice-Pres. Dir. 208 S. LaSalle St. Bldg. Corpn.; Dir., Chair. Finance Cttee., mem. Exec. Cttee., Chicago, Rock Island and Pacific Railway; mem. Chicago Civil Defence Corps; Trustee, Univ. of Chicago Cancer

Research Foundation, De Paul Univ.; Fellow, St. Joseph's Coll., Rensselaer, Ind.; Assoc. Fellow, Brandeis Univ.; mem. of several orgs. and cttees.; Col. of Engineers in Second World War; Hon. Dr.Eng. (Tri-State Coll., Angola, Ind.) 1955, Hon. LL.D. (Barat Coll., Lake Forest, Ill.) 1955, (Syracuse Univ.) 1957, (De Pauw Univ.) 1964; Horatio Alger Award (American Schools and Colls. Assn.) 1953, and several other awards; Legion of Merit; Chevalier, Légion d'honneur, Gold Cross, Royal Order of the Phoenix (Greece), Order of Ruben Dario (Nicaragua). *Address:* 300 W. Washington, Chicago, Ill. 60606 (Office); 900 Edgemere Court, Evanston, Ill. 60202, U.S.A. (Home).

CROZIER, Brian Rossiter; British writer and journalist; b. 4 Aug. 1918; s. of R. H. and Elsa (McGillivray) Crozier; m. Mary Lillian Samuel 1940; one s. three d.; ed. Lycée, Montpellier, Peterborough Coll., Harrow, Trinity Coll. of Music, London; music and art critic, London 1936-39; reporter and sub-editor, Stoke-on-Trent, Stockport, London 1940-41; aeronautical inspection 1941-43; sub-editor, Reuters 1943-44, News Chronicle 1944-48, sub-editor and writer Sydney Morning Herald, Australia 1948-51; corresp., Reuters-AAP 1951-52; features editor, Straits Times, Singapore 1952-53; leader writer and corresp., The Economist 1954-64; BBC commentator, English, French and Spanish overseas services 1954-66, Chair. Forum World Features 1965-74; Editor, Conflict Studies 1970-75; Co-founder and Dir.-Gen. Inst. for the Study of Conflict 1970-. *Publications:* The Rebels 1960, The Morning After 1963, Neo-Colonialism 1964, South-East Asia in Turmoil 1965, The Struggle for the Third World 1966, Franco 1967, The Masters of Power 1969, The Future of Communist Power (in U.S.A.: Since Stalin) 1970, De Gaulle (vol. I) 1973, (vol. II) 1974, A Theory of Conflict 1974, The Man Who Lost China (Chiang Kai-shek) 1977, Strategy of Survival 1978, The Minimum State 1979, and contributions to journals in numerous countries. *Leisure interests:* taping stereo, piano, SX-70 photography. *Address:* 12-12A Golden Square, London W1R 3AF (Office); 112 Bridge Lane, Temple Fortune, London, NW11 9JS, England (Home). *Telephone:* 01-439 7381-7

CRUMB, George, B.M., M.M., D.M.A.; American composer; b. 24 Oct. 1929, Charleston, W. Va.; s. of George Henry and Vivian Reed; m. Elizabeth Brown 1949; two s. one d.; ed. Mason Coll. of Music, Univ. of Illinois, Univ. of Michigan, Hochschule für Musik (Berlin); Prof., Univ. of Colorado 1959-63; Creative Assoc., State Univ. of New York at Buffalo 1963-64; Prof., Univ. of Pennsylvania; Koussevitsky Int. Recording Award 1971; Pulitzer Prize for Music 1968. *Publications:* Ancient Voices of Children, Black Angels, Eleven Echoes of Autumn, 1965, Songs, Drones and Refrains of Death, Makrokosmos Vols. I-III, Music for a Summer Evening, Five Pieces for Piano, Night of the Four Moons, Night Music I, Echoes of Time and the River, Four Nocturnes, Star-child, Dream Sequence. *Leisure interest:* reading. *Address:* 240 Kirk Lane, Media, Pa. 19063, U.S.A. *Telephone:* (215) 565-2438.

CRUZ, Ivo; Portuguese composer and conductor; b. 1901, Corumba, Brazil; s. of Manuel Pereira da Cruz and Palmira Machado da Cruz; m. Maria Adelaide Soares Cardoso 1931; three s. one d.; ed. Univs. of Lisbon and Munich; has conducted in Austria, France, Germany, Switzerland, Spain, Holland, Belgium, Eire, Romania, Brazil and Portugal; his compositions have been played in Europe, North America, Brazil, New Zealand, North Africa and the Repub. of South Africa; founder and Pres. Nat. Union of Musicians; Dir. Conservatoire Nat. de Lisbonne 1938-71; Head of the Lisbon Philharmonic Orchestra, of the Duarte Lobo Choral Soc., Pres. Pro Arte; Commdr. Order of St. Jacques; Knight Order of Alfonso el Sabio (Spain). *Compositions include:* Sinfonia de Amadis, Sinfonia de Queluz, Homenagens a Falla and Pastoral (ballet), Aquarelas, Homenagens, Suite and Caleidoscopio, for piano; songs include Les amours du poète, Ballades lunatiques, Chansons perdues, Chansons profanes, Chansons sentimentales. *Leisure interest:* antiques. *Address:* Rua do Salitre, 166, 2° E, Lisbon, Portugal. *Telephone:* 680646.

CRUZ-DIEZ, Carlos; Venezuelan painter; b. 17 Aug. 1923; ed. School of Plastic and Applied Arts, Caracas; Dir. of Art. Venezuelan subsidiary of McCann-Erickson Advertising Agency 1946-51; Teacher, History of Applied Arts, School of Arts, Caracas 1953-55; in Barcelona and Paris working on physical qualities of colour now named *Physichromies* 1955-56; opened studio of visual arts and industrial design, Caracas 1957; Prof. and Asst. Dir. School of Arts, Caracas 1959-60; moved to Paris 1960; First one-man exhbn., Caracas 1947, later in Madrid, Genoa, Turin, London, Paris, Cologne, Oslo, Brussels, Ostwald Museum, Dortmund and Essen; Retrospective exhbns. at Signals, London and Galerie Kerchache, Paris 1965; represented at numerous Group exhbns.; works in Museo de Bellas Artes, Caracas, Victoria and Albert Museum, London, Casa de la Cultura, Havana, Städtisches Museum, Leverkusen, Germany, Museum of Modern Art, New York, Museum of Contemporary Art, Montreal, Museum des 20. Jahrhunderts, Vienna, Univ. of Dublin, Museo Civico di Torino, Wallraf-Richartz Museum, Cologne, Museum of Contemporary Art, Chicago, Musée de Grenoble; Grand Prix at 3rd Biennale, Córdoba, Argentina; Prix Int. de Peinture à la IX Biennale de São Paulo. *Address:* 24 rue Pierre Semard, Paris 75009, France.

CRUZ UCLÉS, Ramón Ernesto; Honduran lawyer and politician; b. 4 Jan. 1903; fmr. teacher; Magistrate, Supreme Court of Justice 1949-54; Prof., Univ. Nacional Autónoma de Honduras 1961; fmr. Leader Partido Nacional (PN); Pres. of Honduras 1971-72 (deposed by mil. coup).

CRVENKOVSKI, Krste; Yugoslav politician; b. 16 July 1921, Prilep, Macedonia; s. of Trajko and Balga Crvenkovski; m. Margarette Crvenkovski 1947; one s. one d.; ed. Higher Party School, Belgrade; mem. C.P. of Yugoslavia 1939-; active in People's Liberation Movt.; imprisoned 1943-44; mem. Political Bureau, Cen. Cttee. League of Communists of Macedonia 1948-51; Minister for Science and Culture, Govt. of Macedonia 1949-51; Organizational Sec., Cen. Cttee., League of Communists of Macedonia 1951-58, Political Sec. 1963-66, Pres. Cen. Cttee. 1966-69; mem. Fed. Exec. Council, Macedonia 1954-63, Sec. for Educ. and Culture 1958-63; mem. Exec. Bureau, Presidium of League of Communists of Yugoslavia (LCY) 1969-71; mem. Council of Fed. 1969; First Vice-Pres. Presidency of Repub. of Yugoslavia June 1971-72; Deputy to Ass., Socialist Repub. of Macedonia; Deputy to Fed. Ass; del. to IPU 1965; leader or mem. del. to numerous congresses of Communist parties in other countries; numerous national decorations including Order of Nat. Hero, Order of Brotherhood and Unity, Order of Partisan Star, etc. *Publications:* The Problems of Education, The Leading Role of the League of Communists of Yugoslavia, The League of Communists and the National Question, The League of Communists and Society. *Leisure interests:* hunting, philately. *Address:* Vodnjanska 78, Skopje, Yugoslavia.

CSETERKI, Lajos; Hungarian trade unionist and politician; b. 29 Oct. 1921; m. Piroska Martinovszki; two s. one d.; ed. teachers' training coll. and Soviet political school; Lecturer, Soviet anti-fascist school until 1947; Lecturer, Trades Union Council, Budapest 1947-50; Tutor, Party Acad. of Hungarian Working People's Party 1950-51; Sec.-Gen. Teachers' Union 1951-53; Sec. Trades Union Council 1954-56; Liaison Duties, Revolutionary Worker-Peasant Govt., County Fejér 1956-57, First Sec., County Fejér Cttee. 1957-61, County Borsod Cttee. 1961-62; mem. Cen. Cttee. Hungarian Socialist Workers' Party 1959-, Substitute mem. Political Cttee. Nov. 1962-66, Sec. Cen. Cttee. 1963-67; Sec. Presidential Council 1967-78. *Address:* c/o Presidential Council of the Hungarian People's Republic, Parliament Building, Budapest, Hungary.

CSIKÓS-NAGY, Béla; Hungarian economist; b. 9 Sept. 1915, Szeged; s. of Dr. József Csikós-Nagy and Jolán Jedlicska; m. Dr. Livia Kneppó 1944; two d.; ed. Szeged Univ. and Univ. of Pécs; joined Hungarian CP 1945; Chair. Hungarian Bd. of Prices and Materials; Lecturer on Price Theory at Karl Marx Univ. of Econ. Sciences, Budapest 1959-, title of univ. prof. 1964, Dr. of Econ. Sc. 1967; Under-Sec. of State 1968-; Pres. Hungarian Econ. Assn. 1970-; Chair. Hungarian Soc. of Economists 1975-; mem. Exec. Cttee. Int. Econ. Assn. 1971-77; Hungarian State Prize 1970. *Publications:* Pricing in Hungary 1968, General and Socialist Price Theory 1968, Hungarian Economic Policy 1971, Socialist Economic Policy 1973, Socialist Price Theory and Price Policy 1975, Towards a New Price Revolution 1978; other studies on pricing theory and political economy. *Leisure interest:* card patience. *Address:* Országos Anyag-és Árhivatal (National Board of Materials and Prices), Budapest V, Guszev-utca 23, Hungary (Office). *Telephone:* 113-650.

CUADRA MEDINA, Lieut.-Gen. Mariano; Spanish air force officer; b. 12 May 1912, Madrid; m. Carmen Lores Gutiérrez 1944; three s. one d.; ed. Cavalry Acad.; Spanish Army 1930-36, Lieut., Cavalry Regt. 1934-36; entered Air Force 1936; Commdr. Air Base, Torrejon; Deputy Chief of Staff of Air Force; dir. Higher Coll. for Nat. Defence Studies; Chief of Staff of Air Force; Minister for the Air Force 1973-76; several decorations including Grand Cross of Mil. Merit, of Naval Merit, of San Hermenegildo. *Address:* c/o Ministerio del Aire, Plaza de la Moncloa, Madrid 15, Spain. *Telephone:* 2-44-04-19.

CUADRA MEDINA, Lieut.-Gen. Ramón; Spanish army officer; b. 29 Dec. 1910, Madrid; ed. Gen. Mil. Acad., Cavalry Acad.; Second Lieut. 1931, Cavalry Lieut. 1932, Capt. 1937, Major 1945, Lieut.-Col. 1957, Col. 1966, Brig.-Gen. 1969, Div. Gen. 1972, Lieut.-Gen. 1974-; Prof., Cavalry Acad. 1939-42, 1947-56, 1956-58, also Prof., Infantry Cavalry and Service Corps Acad.; main commands

held: 5th, then 2nd Cavalry Regt.; Security Corps at Valladolid; 2nd Regt. of Cavalry Brigade of Cen. Mil. Region; Flechas (arrows) Mixed Div.; 1st Regt. of Flechas Negras (black arrows); Guerrilla Sqn. of FET y de las JONS (the Falange) in Cáceres; Gen. Staff of 7th Army Corps, then of Cavalry Div., then of Castilla Army Corps; 2nd Chief of Gen. Staff, 7th Mil. Region; 12th Armoured Regt.; Deputy Insp. of Cavalry of 2nd, 3rd, 4th Mil. Regions; Mil. Gov. of La Plaza and Province of Santander; Deputy Insp. of Cavalry, 1st, 7th, 8th Mil. Regions; Dir. of Maintenance Services, Gen. Staff; now Chief of Gen. Staff in Canary Islands and Head of Joint Command, Canary Islands Zone; Chief of Gen. Army Staff 1976-; Cross of Mil. Merit (twice), Cross of War (twice), Bronze Medal for Mil. Valour, Cross, Plaque and Grand Cross, Royal Mil. Order of St. Hermenegildo, Cross and Grand Cross, Order of Mil. Merit, Grand Cross, Order of Naval Merit, Cross of Mil. Merit (Italy). *Address:* Ministerio del Ejército, Alcalá 51, Madrid 14, Spain.

CUBILLOS SALLATO, Hernan; Chilean company director and government official; b. 25 Feb. 1936, Viña del Mar; s. of Hernan Cubillos Leiva and María Graciela Sallato; m. Marcela Sigall; four c.; ed. Colegio de los Sagrados Corazones in Viña del Mar and Santiago, Oratory School, Bournemouth, England, Arturo Prat Naval Coll., Valparaiso; Officer, Chilean Navy 1953-61; Empresas Industriales El Melón S.A. 1961-62; Empresa Periodística El Mercurio, S.A.P. 1963-74; Pres. Revista Qué Pasa 1974-78, Santillana del Pacífico S.A. de Ediciones 1974-78, Compañía de Inversiones La Transandina, S.A. 1974-78; Minister of Foreign Affairs 1978-; Dir. Inter-American Press Assen. 1974-77; mem. Int. Press Inst.; Presidential Medal, Medal of City of Santiago 1953, Abdón Calderón Medal (Ecuador), Antonio Nariño Medal (Colombia), Grand Cross of Order of the Sun (Peru). *Leisure interests:* yachting, photography. *Address:* Ministerio de Relaciones Exteriores, Palacio de la Moneda, Santiago (Office); Candelaria Goyenechea 4241, Santiago, Chile (Home). *Telephone:* 62 574, 64 574 (Office); 48 1541 (Home).

CUCINO, Gen. Andrea; Italian army officer; b. 23 July 1914, Montecorvino Rovella; s. of Matteo and Giuseppina Lenza; m. Iolanda Saviani 1953; one s.; ed. Artillery and Eng. Acad., Scuola di Guerra, NATO Defence Coll.; promoted to the rank of Second Lieut., Artillery 1935, Lieut. 1937, Capt. 1942, Maj. 1946, Lieut.-Col. 1951, Col. 1957, Brig.-Gen. 1962, Div. Gen. 1967, Lieut.-Gen. 1970, Gen. 1972; Commdg. Officer 132nd Armoured Artillery Regt. 1959-60, 3rd Brigade of Ariete Armoured Div. 1963-64; Div. Commdr. Ariete Armoured Div. 1967-68; Insp. of Artillery 1968-72; Sec.-Gen. Ministry of Defence 1972-75; Chief of Gen. Staff Feb. 1975-; Cavaliere di Gran Croce, Ordine al Merito della Repubblica Italiana, Grand Officer, Order of Merit (Fed. Repub. of Germany), Order of Tudor Vladimirescu 2nd Class (Romania), Commdr. Legion of Merit (U.S.A.), Silver and Bronze Medals for Mil. Valour, Italian Army. *Leisure interests:* sports, particularly tennis. *Address:* Via XX Settembre 123A, Rome (Office); Via della Lungara 61, 00165 Rome, Italy (Home). *Telephone:* 478248 (Office); 659343 (Home).

CUCKNEY, Sir John Graham, Kt., M.A.; British banker; b. 12 July 1925, India; s. of late Air Vice-Marshal E. J. Cuckney; m. 2nd Muriel Boyd 1960; ed. Shrewsbury, Univ. of St. Andrews; Civil Asst., Gen. Staff, War Office 1949-57; Dir. of various industrial and financial companies 1957-72 incl. Lazard Bros. & Co. 1964-70, J. Bibby & Sons 1970-72; Chair. Standard Industrial Trust 1966-70, Mersey Docks and Harbour Bd. 1970-72, Building Econ. Devt. Council 1976-; Ind. mem. Railway Policy Review Cttee. 1966-67; Special mem. Hops Marketing Bd. 1971-72; Chief Exec. (Second Perm. Sec.), Property Services Agency 1972-74; Senior Crown Agent and Chair. of Crown Agents for Oversea Govts. and Administrators 1974, 1978, Chair. (part-time) Port of London Authority Oct. 1977–; Chair. (part-time) The Thomas Cook Group Ltd. and Thomas Cook Bankers Ltd. 1978-; Chair. (part-time) Int. Mil. Services Ltd. 1974–; Dir., Midland Bank Ltd., Brooke Bond Liebig Ltd. 1978-; Gov. Centre for Int. Briefing. *Address:* 45 Berkeley Street, London, W1A 1EB, England. *Telephone:* 01-499 4000.

CUDLIPP, Baron (Life Peer), cr. 1974, of Aldingbourne in the County of West Sussex; **Hugh Cudlipp,** Kt., O.B.E.; British journalist; b. 28 Aug. 1913; ed. in Wales; with various provincial newspapers in Cardiff and Manchester 1927-32; Features Editor Sunday Chronicle 1932-35; Daily Mirror 1935-37; Editor Sunday Pictorial 1937-40; served army 1940-46; Editor, Sunday Pictorial 1946-49; Man. Editor Sunday Express 1950-52, Editorial Dir. Daily Mirror and Sunday Pictorial (now Sunday Mirror) 1952-63; Jt.-Man. Dir. Daily Mirror Newspapers Ltd., Sunday Pictorial Newspapers Ltd. 1960-63; Chair. Daily Mirror Newspapers Ltd. 1963-68; Chair. Odhams Press Ltd. 1961-63; Daily Herald (1929) Ltd. 1961-64; Dir. Associated TV Ltd. 1956-73, Reuters Ltd.; Editorial Dir. Int. Publishing Corpn. 1963-68, Deputy Chair. 1964-68, Chair. 1968-73; Deputy Chair. Reed Int. Ltd. 1970-73; Head, Counter-Inflation Publicity Unit. *Publications:* Publish and be Damned! 1953, At Your Peril 1962, Walking on The Water (autobiog.) 1976. *Address:* The Dene, Hook Lane, Aldingbourne, Chichester, Sussex, England.

CUEVAS, José Luis; Mexican painter; b. 26 Feb. 1934, México, D.F.; s. of Alberto Cuevas and María Regla; m. Bertha Riestra 1961; three d.; ed. Univ. de México, School of Painting and Sculpture "La Esmeralda", Mexico; over forty one-man exhbns. in New York, Paris, Milan, Mexico, Buenos Aires, Toronto, Los Angeles, Washington, etc.; Group Exhbns. all over N. and S. America, Europe, India and Japan; works are in Museum of Modern Art, Solomon R. Guggenheim Museum, Brooklyn Museum (New York), Art Inst. Chicago, Phillips Collection, Washington, D.C., Museums of Albi and Lyons, France, etc.; First Int. Award for Drawing, São Paulo Bienal 1959, First Int. Award, Mostra Internazionale di Bianco e Nero de Lugano, Zürich 1962, First Prize, Bienal de Grabado, Santiago, Chile 1964, First Int. Prize for engraving, first Biennial of New Delhi, India 1968; has illustrated following books: The Worlds of Kafka and Cuevas 1959, The Ends of Legends String, Recollections of Childhood 1962, Cuevas por Cuevas (autobiog.) 1964, Cuevas Charenton 1965, Crime by Cuevas 1968, Homage to Quevedo 1969, El Mundo de José Luis Cuevas 1970, Cuaderno de Paris 1977. *Publications:* Cuevas by Cuevas 1964, Cuevario 1973, Confesiones de José Luis Cuevas 1975, Cuevas por Daisy Ascher 1979. *Address:* Galeana 109, San Angel Inn, México 20, D.F., Mexico; c/o Grace Borgenicht Gallery, 1018 Madison Avenue, New York, N.Y., U.S.A. *Telephone:* 548-78-20; 548-90-54 (both México, D.F.)

CUKOR, George; American film director; b. 7 July 1899; Stage dir. New York until 1928; started work in films 1929; Dir. of Metro-Goldwyn-Mayer 1933-. *Films include:* A Bill of Divorcement 1932, Little Women 1933, David Copperfield 1934, Romeo and Juliet 1936, Camille 1936, Holiday 1937, The Women 1939, The Philadelphia Story 1940, Two Faced Woman 1941, A Double Life 1947, Adam's Rib 1949, Born Yesterday 1950, The Marrying Kind 1952, Pat and Mike 1952, A Star is Born 1954, Wild is the Wind 1957, Let's Make Love 1961, My Fair Lady 1964, Justine 1969, Travels with my Aunt 1972, Love Among the Ruins 1974, The Bluebird 1975, The Corn is Green 1979. *Address:* 9166 Cordell Drive, Los Angeles, Calif. 90069, U.S.A.

CULLBERG, Brigit Ragnhild; Swedish choreographer; b. 3 Aug. 1908, Nyköping; d. of Carl Cullberg and Elna Westerström; m. Anders Ek 1942 (divorced); two s. one d.; ed. Univ. of Stockholm, Jooss School of Dance, Lilian Karina Ballet School; Choreographer, Swedish Opera Ballet 1951-57; Guest Choreographer, Royal Danish Ballet 1957-61, 1975, American Ballet Theatre 1958-64, New York City Ballet 1958, Nat. Ballet of Santiago de Chile, City Ballets of Cologne, Munich, Düsseldorf, Zürich, Dortmund, Oslo, Helsinki, Antwerp, Geneva, Warsaw, Teheran and West Berlin; Dir. Cullberg Ballet, The Swedish Nat. Theatre Centre 1967-; choreography includes: Miss Julie, Medea, Moon-reindeer, The Evil Queen (Prix d'Italia 1961), Lady from the Sea, Adam and Eve, Eurydice is Dead, Romeo and Juliet, Red Wine in Green Glasses (Prix d'Italia 1971), Revolt, School for Wives, Peer Gynt, Rapport (The 7th Symphony of Allan Pettersson), War Dance (9th Symphony). *Publication:* Ballet and Us 1954. *Leisure interests:* theatre, art, political and social problems, peace. *Address:* Kommendörsgatan 8C, 114 48 Stockholm, Sweden. *Telephone:* 615835.

CULLEN, Hon. Jack Sydney George (Bud), P.C.; Canadian politician; b. 20 April 1927, Creighton Mine, Ont.; s. of Chaffey Roi Cullen and Margaret Evelyn Leck; m.; one s. two d.; ed. Sudbury High School, Univ. of Toronto and Osgoode Hall; Barrister-at-Law; M.P. for Sarnia-Lambton 1968-; Parl. Sec. to Minister of Nat. Defence, Minister of Energy, Mines and Resources and Minister of Finance; Minister of Nat. Revenue 1975-76; of Employment and Immigration Sept. 1976-; first Pres. Sarnia Educ. Authority; mem. Sarnia School Bd., Sarnia and District Assen. for the Mentally Retarded; Liberal. *Address:* House of Commons, Ottawa, Ont. Canada. *Telephone:* 996-6861 (Office).

CULLIGAN, John William; American business executive; b. 22 Nov. 1916, Newark, N.J.; m. Rita McBride 1944; two s. four d.; ed. Seton Hall, Utah, Chicago and Philippine Univs.; Pres. Whitehall Lab. (div. of American Home Products Corpn.) 1964-67; Vice-Pres. and mem. Operations and Finance Cttees., American Home Products Corpn. 1967-70, Exec. Vice-Pres. 1970-73, Dir. 1970, Pres. and Chair. Operations Cttee. 1973-; Vice-Pres. and Dir. The Proprietary Assen.; Dir. Prestige Group, London; Treas., Council of Family Health; Trustee, Valley Hosp., N.J.; Knight of Malta.

Leisure interest: golf. *Address:* American Home Products Corporation, 685 Third Avenue, New York, N.Y. 10017 (Office); 345 Algonquin Road, Franklin, N.J. 07417, U.S.A. (Home). *Telephone:* (201) 444-8407 (Home).

CULLMAN, Joseph Frederick, III, B.A.; American business executive; b. 9 April 1912, New York; s. of Joseph F. Cullman, Jr. and Frances Nathan (Wolff) Cullman; one d.; ed. Hotchkiss School, Yale Univ.; Sales Man. Eastern Area, Webster Tobacco Co. 1936-41; served in U.S. Navy ■ Air Defence Officer and Commdr. 1941-45; Vice-Pres. Benson & Hedges 1946-53, Exec. Vice-Pres. 1953-55, Pres. 1955-61; Vice-Pres. Philip Morris Inc. 1954, Exec. Vice-Pres. 1955, Pres. and Chief Exec. Officer 1957-66, Chair. and Chief Exec. Officer 1966-78, Chair. Exec. Cttee. of Bd. Oct. 1978-; Dir. Philip Morris (Australia) Ltd., Benson and Hedges (Canada) Ltd., Mission Viejo Co. (operating co. of Philip Morris), IBM World Trade Europe/Middle East/Africa Corpn., Bankers Trust Co., Ford Motor Co., Braniff Int. and Levi Strauss and Co.; mem. Exec. Cttee. of Tobacco Inst., Washington, D.C.; mem. Finance Cttee. of Cttee. for Econ. Devt.; mem. Nat. Bd. of Smithsonian Assocs.; Trustee, New York State Nature and Historical Preserve Trust, American Museum of Natural History, Colonial Williamsburg Foundation; mem. Yale Devt. Bd., Advisory Council of Graduate School of Business, Stanford Univ., Conf. Bd.; Pres. Int. Atlantic Salmon Foundation; Dir. World Wildlife Fund—U.S. Appeal; Pres., Dir. Whitney M. Young, Jr. Memorial Foundation; New York City Chair. of United Negro Coll. Fund 1972 Campaign; Chair. U.S. Open Tennis Championships at Forest Hills 1969-70, Hon. Chair. 1971; Ordre du Mérite commercial et industriel (France) 1963, Commdr. Order of Merit (Italy) 1966; Hon. D.Iur. (Bellarmine Coll., Louisville, Ky.) 1973, Hon. Dr. Commercial Science (Univ. of Richmond, Va.). *Leisure interests:* tennis, golf, fishing, hunting. *Address:* 100 Park Avenue, New York, N.Y. 10017, U.S.A. (Office). *Telephone:* 212-679-1800.

CULMANN, Herbert Ernst, DR.IUR.; German airline executive; b. 15 Feb. 1921, Neustadt; m.; two s. one d.; ed. Gymnasium Neustadt and Ruprecht-Karl Universität, Heidelberg; German Air Force 1939-45; legal studies and legal practice 1945-53; Deutsche Lufthansa A.G. 1953-, Dir. of Central Admin. Div. (Int. relations, Org. Legal, Planning, Financial divs.) 1957-64, mem. Man. Bd. 1964-72, Chair. Exec. Bd. 1972-; official of other companies; mem. Int. Law Assen. 1954-; Chair. Exec. Bd. Int. Air Transport Assen. 1972, mem. Exec. Cttee.; mem. Aviation Advisory Cttee., Fed. Transport Ministry. *Leisure interests:* flying, music, sailing, skiing. *Address:* Deutsche Lufthansa AG, 5 Cologne 21 (Deutz), Von-Gablenz Strasse 2-6, Federal Republic of Germany. *Telephone:* (0221) 8261 (Office).

CULVER, John C., A.B., LL.B.; American politician; b. 8 Aug. 1932, Rochester, Minn.; s. of William Culver; m. Ann Cooper 1958; one s. three d.; ed. Franklin High School, Cedar Rapids, Harvard Coll., Emmanuel Coll., Cambridge, Harvard Univ.; Dean of Men, Harvard Univ. Summer School 1960; Legis. Asst. to U.S. Senator Edward M. Kennedy 1962-63; mem. Congress (Iowa) 1965-75; U.S. Senator for Iowa Jan. 1975-; Democrat. *Leisure interests:* reading, sports, historical restoration. *Address:* United States Senate Office Building, Washington, D.C. 20510 (Office); Cedar Rapids, Ia. 53401, U.S.A. (Home). *Telephone:* 224-3744 (Office).

CUMMINGS, Constance, C.B.E.; British actress; b. (as Constance Halverstadt) 15 May 1910, Seattle, U.S.A.; m. Benn W. Levy 1933; one s. one d.; ed. St. Nicholas School, Seattle; first appeared on the stage in Four Grapes, since then in many stage, film and television roles; has performed Peter and the Wolf and played Joan in the Claudel-Honegger oratorio St. Joan at the Stake with the orchestra at the Albert Hall and Festival Hall; mem. Arts Council 1965-70; Chair. of Arts Council Young People's Theatre Panel 1965-74; mem. Royal Soc. of Arts 1975. *Plays include:* Emma Bovary, The Taming of the Shrew, Romeo and Juliet, St. Joan, Lysistrata, Coriolanus, Long Day's Journey into Night, The Cherry Orchard, The Bacchae, Mrs. Warren's Profession. *Films include:* Busman's Honeymoon 1940, Blithe Spirit 1945, John and Julie 1955, The Intimate Stranger 1956, The Battle of the Sexes 1959, Sammy Going South 1962, In the Cool of the Day 1963. *Leisure interests:* needlework, gardening. *Address:* 68 Old Church Street, London, S.W.3; Cote House, Aston, Oxfordshire, England. *Telephone:* 01-352 0437.

CUMMINGS, Nathan; American business executive; b. 14 Oct. 1896, St. John, N.B., Canada; m. 1st Ruth Kellert 1935 (died 1952); m. 2nd Joan Toor Cummings 1959 (dissolved); two s. one d.; ed. Economist Training School, New York; retail shoe business 1914-17; wholesale shoe business 1917-24; shoe manufacturing 1924-30; importing gen. merchandise 1930-34; manufacturing biscuits and candy 1934-38 (all in Canada); took up residence in U.S.A. 1939; Pres. C. D. Kenny Co. (wholesale food), Baltimore 1939-; acquired this and other firms to form Consolidated Foods Corpn., of which he is Hon. Chair.; Dir. Soc. Nat. Bank Cleveland; Dir.-Gen. Dynamics Corpn.; Patron and benefactor several art socs.; Officier, Légion d'honneur, Commendatore Al Merito della Repubblica Italiana and other awards, including hon. degrees from American and Canadian Univs. *Leisure interest:* art collection. *Address:* 375 Park Avenue, New York (Office); Waldorf Astoria Towers, 100 East 50th Street New York, U.S.A. (Home). *Telephone:* Plaza 1-3330.

CUMMINGS, Ralph W., PH.D.; American agriculturist; b. 13 Dec. 1911, Reidsville, N.C.; m. Mary Parrish Cummings; three s. one d.; ed. N. Carolina State Univ., Ohio State Univ.; Asst. and Assoc. Prof. Cornell Univ. 1937-42; Prof. Head of Agronomy, N. Carolina State Univ. 1942-47, Asst. Dir. of Agricultural Research 1945-47, Dir. 1948-54; Chief N. Carolina Agricultural Research, Mission in Peru 1955-56; Field Dir., Chief Rep. in India, Rockefeller Foundation 1957-66, Assoc. Dir. for Agricultural Sciences 1963-68; Admin. Dean for Research N. Carolina State Univ. 1968-71, Emer. Prof. of Soil Science 1977-; Agriculture Programme Adviser in Asia and the Pacific, Ford Foundation 1971-72; Dir. Int. Rice Research Inst., Philippines June-Nov. 1972, Int. Crops Research Inst. for the Semi-Arid Tropics, Hyderabad 1972-77; Chair. Tech. Advisory Cttee. Consultative Group on Agric. Research 1977-; Chair. Govt. of India Cttee. on Agricultural Univs. 1960-64; Consultant Agricultural Research Org., Indonesia 1970; Vice-Chair. Cttee. on Study of African Agricultural Research Capabilities, Nat. Acad. of Sciences, U.S.A. 1970-73; Fellow, American Acad. of Arts and Sciences, American Soc. for Agronomy; mem. American Chem. Soc., Soil Science Soc. of America; many hon. degrees; Int. Agronomy Award, Soc. of Agronomy 1970. *Address:* 812 Rosemont Avenue, Raleigh, N.C. 27607, U.S.A. (Home).

CUMMINGS, Tilden, B.S., M.B.A.; American banker; b. 18 Sept. 1907; ed. Princeton Univ. and Harvard Graduate School of Business Admin.; Dir. Continental Illinois Nat. Bank and Trust Co. of Chicago, Pres. 1960-73; Dir. Northern Natural Gas Co., Omaha, American Brake Shoe Co., New York, Consolidated Foods Corpn., Chicago; Vice-Pres. Bd. of Trustees, Northwestern Univ.; Dir. Chicago, Milwaukee, St. Paul and Pacific Railroad Co. 1970-, Canteen Corpn., Chicago, Northern Natural Gas Co., Omaha; official of many civic and philanthropic orgs. *Address:* Continental Illinois National Bank and Trust Co. of Chicago, 231 South La Salle Street, Chicago, Ill. 60690 (Office); 1025 Hill Road, Winnetka, Ill., U.S.A. (Home).

CUNHAL, Alvaro; Portuguese politician; b. Coímbra; ed. Lisbon Univ.; mem. of Portuguese Communist Party 1931-; Sec.-Gen. Fed. of Communist Youth Movts. 1935; mem. PCP Cen. Cttee. 1936, Cen. Cttee. Secr. 1942-49, 1960-; active in party reorganization and devt. of links with int. communist movt. 1942-49; imprisoned for political activities 1937-38, 1940, 1949-60; Sec.-Gen. PCP 1961-; Minister without Portfolio 1974-75; mem. many PCP dels. abroad. *Leisure interests:* drawing and painting. *Address:* Partido Comunista Português, Rua Soeiro Pereira Comes, Lisbon, Portugal.

CUNNINGHAM, Alexander A.; American business executive; b. 7 Jan. 1926, Sofia, Bulgaria; Navigator-electronics radar specialist, R.A.F., World War II; joined Gen. Motors 1948, Gen. Motors Overseas Operations Div. 1953, Adam Opel A.G., Fed. Repub. of Germany 1953, Gen. Motors Ltd., London 1956; Works Man. Gen. Motors do Brasil 1958-62, Man. Dir. 1963; Works Man. Gen. Motors Argentina S.A. 1962-63; Man. Adam Opel, Bochum 1964; Asst. Gen. Mfg. Man. Adam Opel A.G. 1966-69, Gen. Mfg. Man. 1969-70, Man. Dir. 1970-74; Dir. European Operations, Gen. Motors Overseas Corpn. Feb. 1974-. *Address:* General Motors Overseas Corporation, Stag Lane, Kingsbury, London, N.W.9. England.

CUNNINGHAM, Harry Blair; American retail executive; b. 23 July 1907, Home Camp, Pa.; ed. Miami Univ., Oxford, Ohio; Newspaper Reporter Harrisburg Patriot 1927-28; S. S. Kresge Co., Lynchburg, Va. 1928-29, Washington 1930, Brooklyn 1931-32, Detroit 1933-35, Wheeling 1936, Lafayette (Ind.) 1936-38; Muncie (Ind.) 1939-40, Grosse Pointe (Mich.) 1940-41, Highland Park (Mich.) 1942-46, Superintendent, Stores 1947-50, Asst. Sales Dir. 1951-52, Sales Dir. 1953-57, Gen. Vice-Pres. 1957-59, Pres. 1959-70, Chair. of Bd. 1967-72, Hon. Chair. 1973-; official of other companies. *Address:* 210 Lowell Court, Bloomfield Hills, Mich. 48013, U.S.A.

CUNNINGHAM, Merce; American dancer and choreographer; b. 16 April 1919, Centralia, Wash.; s. of Mr. and Mrs. C. D. Cunningham; ed. Cornish School, Seattle and Bennington Coll. School of Dance; soloist with Martha Graham Dance Co. 1939-45; began solo concerts 1942; on faculty of School of American Ballet, New York 1948-50; formed own company 1953; has been in residence with his company at Black Mountain Coll., N.C., Connecticut Coll.

School of Dance, Univ. of Calif. at Los Angeles, State Univ. of N.Y. at Buffalo, Univ. of Colo.; opened his own dance school in New York 1959; Guggenheim Fellowships 1954, 1959; Dance Magazine Award 1960, Soc. for Advancement of The Dance in Sweden Gold Medal 1964, Gold Star for Choreographic Invention Paris 1966, New York State Award 1975, Capezio Award 1977, Wash. State Award 1977. *Works include:* The Seasons 1947, 16 Dances for Soloist and Company of Three 1951, Septet 1953, Minutiae 1954, Springweather and People 1955, Suite for Five 1956, Nocturnes 1956, Antic Meet 1958, Supperspace 1958, Rune 1959, Crises 1960, Aeon 1961, Story 1963, Winterbranch 1964, Variations V 1965, How to Pass, Kick, Fall and Run 1965, Place 1966, Scramble 1967, Rainforest 1968, Walkaround Time 1968, Canfield 1969, Second Hand 1970, Tread 1970, Signals 1970, Un Jour ou Deux 1973, Sounddance 1975, Rebus 1975, Torse 1976, Squaregame 1976, Travelogue 1977, Inlets 1977. *Publication:* Changes: Notes on Choreography 1969. *Leisure interests:* reading, cooking, dominoes. *Address:* 463 West Street, New York, N.Y. 10014, U.S.A.

CURIE, Eve Denise (*see* Labouisse, Eve Denise).

CURIEN, Hubert, D. ès SC.; French scientist; b. 30 Oct. 1924, Cornimont; s. of Robert Curien; m. Anne-Perrine Dumézil 1949; three s.; ed. Lycée d'Epinal, Coll. de Remiremont, Lycée Saint-Louis, Ecole Normale Supérieure and Faculté des Sciences, Paris; Prof., Faculté des Sciences, Paris 1956-; Scientific Dir. Centre Nat. de la Recherche Scientifique (CNRS) 1966-69, Dir.-Gen. 1969-73, Gen. Del. of Scientific and Tech. Research 1973-76, Pres. Centre Nat. Etudes Spatiales 1976-; fmr. Pres. Soc. Française de Minéralogie et Cristallographie; Officier, Légion d'honneur, Military Medal; Prize, Acad. des Sciences. *Publications:* scientific articles on solid state physics and mineralogy. *Address:* 129 rue de l'Université, 75007 Paris (Office); 24 rue des Fossés Saint-Jacques, 75005 Paris, France (Home). *Telephone:* 605-2471 (Office); 633-2636 (Home).

CURRAN, Sir Charles John, Kt.; British broadcasting executive; b. 13 Oct. 1921, Dublin; s. of Felix Curran and Alicia Isabella (née Bruce); m. Silvia Meyer 1949; one d.; ed. Wath-on-Dearne Grammar School, S. Yorkshire, and Magdalene Coll., Cambridge; Indian Army 1941-45; Producer, Home Talks, BBC 1947-50; Asst. Editor Fishing News 1950-51; BBC 1951-, Canadian Rep. 1956-59, Sec. 1963-66, Dir. of External Broadcasting 1967-68; Dir.-Gen. BBC 1969-77; Man. Dir. Visnews 1978-; Pres. European Broadcasting Union 1973-78; Dir. Nationwide Bldg. Soc. 1978-; mem. Bd. British Council; Hon. Dr. (Open Univ.), D.Lit. (City Univ.). *Leisure interest:* opera. *Address:* Visnews Ltd., Cumberland Avenue, London, N.W.10, England. *Telephone:* 01-965 7733.

CURRAN, Sir Samuel Crowe, D.L., D.SC., PH.D., D.SC., LL.D., SC.D., F.R.S.; British university principal and vice-chancellor; b. 23 May 1912, Ballymena, Ulster; s. of John Curran and Sarah Owen Crowe; m. Joan Elizabeth Strothers 1940; three s. one d.; ed. Glasgow Univ. and St. John's Coll., Cambridge; Royal Aircraft Establishment 1939-40; Ministry of Aircraft Production and Ministry of Supply 1940-44; Manhattan Project (Minstry of Supply), Univ. of Calif. 1944-45 (invention of scintillation counter 1944); Natural Philosophy Dept., Glasgow Univ. 1945-55; U.K. Atomic Energy Authority, Chief Scientist, Atomic Weapons Research Establishment, Aldermaston 1955-59; Principal, Royal Coll. of Science and Tech., Glasgow 1959-64; Principal and Vice-Chancellor, Univ. of Strathclyde, Glasgow 1964-; mem. Council for Scientific and Industrial Research 1962-65; Science Research Council 1965-68, Advisory Council on Tech. 1964-70; Chair. Advisory Cttee. on Medical Research 1962-75, Advisory Bd. on Relations with Univs. 1966-70; Chief Scientific Adviser to Sec. of State for Scotland 1967-77; Deputy Chair. (part-time) Electricity Council 1977-; Chair. Electricity Supply Research Council 1978-; Dir. Scottish Television Ltd., Int. Research and Devt. Co. Ltd. 1970-78, Cetec. Systems Ltd. 1965-77, Hall-Thermotank Ltd. 1969-76; mem. Advisory Cttee. on Safety of Nuclear Installations 1977-; mem. Radioactive Waste Man. Advisory Cttee. 1978-; Fellow Royal Soc. of Edinburgh; Hon. FRCPS (Glasgow); Hon. Fellow, St. John's Coll., Cambridge; Commdr. of Order of St. Olav (Norway), Freeman of Burgh of Motherwell and Wishaw, Officer's Cross, Order of Polonia Restituta, Commdr. Order, Polish People's Repub.; St. Mungo Prize of The City of Glasgow. *Publications:* Counting Tubes 1949, Luminescence and the Scintillation Counter 1953, Alpha, Beta and Gamma Ray Spectroscopy 1964, Energy Resources and the Environment (with others) 1975; papers on education, nuclear research and energy. *Address:* University of Strathclyde, Royal College, 204 George Street, Glasgow, G1 1XW (Office); 5 Camstradden Drive East, Bearsden, Glasgow, G61 4AH, Scotland (Home). *Telephone:* 041-552 4400 (Office); 041-942 3936 (Home).

CURREA CUBIDES, Maj.-Gen. Hernando; Colombian army officer and politician; b. 7 Dec. 1919, Bogotá; s. of Miguel Angel Currea and María Cubides de Currea; m. Stella Pombo de Currea Cubides 1944; one s. three d.; ed. Colegio Americano, Bogotá and Escuela Militar de Cadetes; Dir. and Prof., Escuela Militar de Cadetes 1965; Chief of Staff and Commdr. of the Army 1968; C.-in-C. of Armed Forces 1969; Minister of Nat. Defence 1970-74; Amb. to Portugal 1975-; several decorations and medals. *Leisure interests:* golf, photography. *Address:* Embassy of Colombia, Praça José Fontana, 10-5° Dt., Lisbon, Portugal.

CURRIE, George Bale, B.A.; Canadian business executive; b. 11 Jan. 1925, Hamilton, Ont.; s. of John Ferguson and Marie (Allen) Currie; m. Martha Bernice Home Brown 1955; two s.; ed. Hamilton Collegiate Inst., McMaster Univ., Harvard Graduate School of Business; Asst. Man. Canadian Bank of Commerce 1952-55, Asst. Gen. Man. Ont. Branches 1955, European Rep., Zurich 1959, Regional Gen. Man. B.C. and Yukon Branches, Canadian Imperial Bank of Commerce 1963; Asst. Vice-Pres. Finance, MacMillan Bloedel Ltd. 1965, Vice-Pres. Strategic Planning and Devt. 1968, Vice-Pres. Finance and Strategic Planning and Devt. 1969, Exec. Vice-Pres. Finance and Admin. 1972, Chair. 1974-76. *Leisure interests:* golf, music. *Address:* 1680 West 40th Avenue, Vancouver B.C. V6M 1V9, Canada. *Telephone:* (604) 263-6080 (Home).

CURTI, Merle, A.B., PH.D.; American historian; b. 15 Sept. 1897, Papillion, Neb.; s. of John Eugene Curti and Alice Hunt Curti; m. 1st Margaret Wooster 1925 (deceased), 2nd Frances Becker 1968; two d.; ed. Harvard; Dwight Morrow Prof. of History Smith Coll. 1937-37; visiting Prof. Chicago and Calif. Univs. and Inst. of Tech. Calif.; Prof. Columbia Univ. 1937-42, Univ. of Wis. 1942-68; Frederick Jackson Turner Prof. of History, Univ. of Wis. 1947-68, Emer. Prof. 1968-; Visiting Prof. Univ. of Tokyo 1959-60; Hon. Consultant, Library of Congress 1969-72; Hon. Fellow Truman Inst. 1975-; mem. Bd. of Advisers American Council Learned Socs., mem. Social Science Research Princeton Univ. Advisory Council 1918; Pres. Miss. Valley Historical Assn. 1951-52; and American Historical Assn. 1953-54; Fellow Inst. for Behavioral Sciences 1955-56; Pulitzer Prize 1944, A.C.L.S. Prize for "extraordinary scholarly achievement" $10,000 1960; Knight Order of Northern Star (Sweden); Hon. L.H.D., Hon. Lit.D. *Publications:* Austria and the United States 1848-1852 1926, Bryan and World Peace 1927, American Peace Crusade 1815-1861 1929, War or Peace: The American Struggle 1636-1936 1936, The Social Ideas of American Educators 1935, American Issues 1941, Growth of American Thought 1944, The Roots of American Loyalty 1946, American Scholarship in the Twentieth Century (jointly), Prelude to Point Four (jointly) 1954, Probing Our Past 1955, An American Paradox 1956, The Making of an American Community 1959, Rise of the American Nation (with Paul Todd) 1960, American Philanthropy Overseas: a History 1963, Philanthropy in the Shaping of American Higher Education (with Roderick Nash) 1965, Rise of the American Nation 1966, Human Nature in American Historical Thought 1969, etc. *Address:* 110 S. Henry Street, Madison, Wis. 53703, U.S.A. (Home).

CURTIN, David Yarrow, PH.D.; American chemist; b. 22 Aug. 1920, Philadelphia, Pa.; s. of Ellsworth F. Curtin and Margaretta Cope Curtin; m. Constance O'Hara 1950; one s. two d.; ed. Swarthmore Coll. and Univ. of Illinois; Private Asst. (with L. F. Fieser), Harvard Univ. 1945-46; Instructor in Chem., Columbia Univ. 1946-49, Asst. Prof. 1949-51; Asst. Prof. Univ. of Ill. 1951-52, Assoc. Prof. 1952-54, Prof. 1954-, Head, Div. of Organic Chem. 1963-65, Head, Div. of Chem. 1968-; mem. Nat. Acad. of Sciences. *Publications:* many scientific papers. *Leisure interests:* music, photography. *Address:* Department of Chemistry and Chemical Engineering, University of Illinois, Urbana, Ill. 61801 (Office); 3 Montclair Road, Urbana, Ill. 61801, U.S.A. (Home). *Telephone:* 217-344-5149.

CURTIS, Ellwood F., B.A., C.P.A.; American accountant and business executive; b. 14 May 1914; ed. Dartmouth Coll.; with Haskins & Sells, Certified Public Accountants 1935-39; with Deere & Company (mfrs. of agricultural and industrial equipment) 1939-. Comptroller 1944, Dir. 1951-, Vice-Pres. 1956-59, Exec. Vice-Pres. 1959-64, Pres. and Chief Operating Officer 1964-78, Vice-Chair. April 1978-. *Address:* Deere & Company, John Deere Road, Moline, Ill., 61265 (Office); 4005 7th Avenue Ill. 61265, U.S.A. (Home).

CURTIS, Tony (Bernard Schwarz); American film actor; b. 3 June 1925, New York; s. of Manuel and Helen (née Klein) Schwarz; m. 1st Janet Leigh 1951 (divorced 1962); 2nd Christine Kaufmann 1963 (divorced); 3rd Leslie Allen 1968; ed. New School of Social Research; served in United States Navy. *Films include:* Houdini 1953, Black Shield of Falworth 1954, So This is Paris? 1954, Six Bridges to Cross 1955, Trapeze 1956, Mister Cory 1957, Sweet Smell of Success 1957, Midnight Story 1957, The Vikings 1958, Defiant Ones 1958, Perfect Furlough 1958, Some Like It Hot

1959, Spartacus 1960, The Great Imposter 1960, Pepe 1960, The Outsider 1961, Taras Bulba 1962, Forty Pounds of Trouble 1962, The List of Adrian Messenger 1963, Captain Newman 1963, Paris When It Sizzles 1964, Wild and Wonderful 1964, Sex and the Single Girl 1964, Goodbye Charlie 1964, The Great Race 1965, Boeing, Boeing 1965, Arriverderci, Baby 1966, Not with My Wife you Don't 1966, Don't Make Waves 1967, Boston Strangler 1968, Lepke 1975, Casanova 1976, The Last Tycoon 1976, The Manitou 1978. *Television includes:* Third Girl from the Left 1973, The Persuaders 1971-72, The Count of Monte Cristo 1976, Vegas 1978. *Publication:* Kid Andrew Cody and Julie Sparrow 1977. *Address:* c/o Charter Management, 9000 Sunset Boulevard, Los Angeles, Calif., U.S.A.

CURZON, Sir Clifford, Kt., C.B.E., D.MUS., F.R.A.M.; British concert pianist; b. 18 May 1907, London; m. Lucille Wallace 1931 (died 1977); two s.; ed. Royal Acad. of Music, London, and studied in Berlin under Schnabel and in Paris under Wanda Landowska and Nadia Boulanger; recent tours throughout the world; coast-to-coast tours U.S.A. 1937-72, including engagements with the New York Philharmonic Orchestra, the Philadelphia Orchestra, etc.; Hon. D.Mus. (Leeds) 1970, Hon. D.Litt. (Sussex) 1973. *Leisure interest:* gardening. *Address:* The White House, Millfield Place, London, N.6., England.

CUSACK, Cyril James; Irish actor and writer; b. 26 Nov. 1910, Durban; s. of Alice Violet Cole and James Walter Cusack; m. Mary Margaret Kiely 1945; two s. four d.; ed. Univ. Coll., Dublin and Nat. Univ.; joined Abbey Theatre, Dublin 1932; Leading Actor, Nat. Theatre, Dublin 1932, 1945, 1946, Assoc. and Shareholder 1966-; Producer, Gaelic Players 1935-36; Man. Dir. Cyril Cusack Productions 1946-61; first London appearance in Ah Wilderness 1936; Produced Tareis An Aifrinn, Gate Theatre, Dublin 1942; Man. Gaiety Theatre, Dublin 1945; has played leading roles in many stage plays in Ireland, U.K., and Broadway including The Playboy of the Western World, The Moon for the Misbegotten, Julius Caesar (Cassius), The Physicists, Andorra, The Cherry Orchard, Mr. O, Arms and the Man (Int. Critics' Award 1961), Krapp's Last Tape (Int. Critics' Award 1961) The Plough and the Stars 1977; since first film appearance in Knocknagow 1937, other films have included: The Small Back Room, Odd Man Out, The Elusive Pimpernel, The Man Who Never Was, Ill Met by Moonlight, A Terrible Beauty, The Blue Veil (Oscar nomination 1952), Johnny Nobody, The Waltz of the Toreadors, I Thank a Fool, 80,000 Suspects, One Spy Too Many, The Spy Who Came in from the Cold, The Taming of the Shrew, Oedipus Rex, Galileo Galilei, King Lear, David Copperfield, Country Dance, Day of the Jackal, Juggernaut, The Temptation of Mr. O; also appears in television plays and series including The Good and Faithful Servant (Canadian TV) 1974, Catholics (U.S.A. TV) 1974, Crystal and Fox (Irish TV) 1975, Jesus of Nazareth 1976; extensive radio work and recordings. *Publication:* Timepieces (poetry) 1970. *Address:* Cluan Chaoin, Deilginis, Dublin; Mont Alto, Deilginis, Dublin, Ireland; 2 Vincent Terrace, London, N.1. England. *Telephone:* Dublin 809707; 01-278 2681.

CUSHMAN, Gen. Robert E., Jr.; American government official; b. 1914, St. Paul, Minnesota; m. Audrey Boyce 1940; one s. one d.; commanded U.S. Marine Infantry battalion in Pacific; after war various command and staff assignments in U.S. and Europe; Asst. to Vice-Pres. Nixon for Nat. Security Affairs 1957-61; Commdr. 3rd Marine Div. 1962, G-2 and G-3 H.Q. 1962-64, Camp Pendleton, Calif. and 5th Marine Div. 1964-67, III Marine Amphibious Force, Viet-Nam 1967-69; Deputy Dir. of Central Intelligence Agency (CIA) 1969-72; Commdt. Marine Corps. 1972-75. *Address:* c/o Headquarters, U.S. Marine Corps, Washington, D.C. 20380, U.S.A.

CUTLER, Sir (Arthur) Roden, V.C., K.C.M.G., K.C.V.O., C.B.E., K.ST.J., B.EC.; Australian public servant and diplomatist; b. 24 May 1916, Sydney; s. of Arthur and Ruby (née Pope) Cutler; m. Helen Morris 1946; four s.; ed. Sydney High School and Univ. of Sydney; Justice Dept. N.S.W. (Public Trust Office) 1935-42; State Sec. Retd. Servicemen's League N.S.W. 1942-43; mem. of Aliens' Classification and Advisory Cttee. to advise Commonwealth Govt. 1942-43; Asst. Deputy Dir. of Security Service N.S.W. 1943; Commonwealth Asst. Commr. of Repatriation 1943-46; High Commr. in New Zealand 1946-52, in Ceylon 1952-55; Minister to Egypt 1955-56; Sec.-Gen. SEATO 1957; Chief of Protocol, Dept. of External affairs, Canberra 1957; State Pres. Retd. Servicemen's League, Australian Capital Territory; Australian High Commr. in Pakistan 1959-61; Australian Rep. to the Independence of the Somali Repub. 1960; Australian Consul-Gen., New York 1961-65; Del. to UN Gen. Ass. 1963-64; Australian Amb. to the Netherlands 1965-66; Gov. New South Wales 1966-79; 2/5th Field Regt., A.I.F., Middle East 1940-42; Hon. LL.D. (Sydney), Hon. D.Sc. (Univ. of N.S.W., Univ. of Newcastle); Hon. Col. Royal N.S.W. Regt., Sydney Univ. Regt.; Hon. Air Commodore No. 22 Sqdn. R.A.A.F. *Leisure interests:* sailing, swimming, shooting, photography. *Address:* c/o Government House, Sydney, N.S.W., Australia.

CUTLER, Walter Leon, M.A.; American diplomatist; b. 25 Nov. 1931, Boston, Mass.; s. of Walter Leon Cutler and Esther Dewey; m. Sarah Gerard Beeson 1957; two s; ed. Wesleyan Univ. and Fletcher School of Int. Law and Diplomacy; Vice-Consul, Yaoundé, Cameroon 1957-59; Staff Asst. to Sec. of State 1960-62; Political-Econ. Officer, Algiers 1962-65; Consul, Tabriz, Iran 1965-67; Political-Mil. Officer, Seoul, Repub. of Korea 1967-69; Political Officer, Saigon, Repub. of Viet-Nam 1969-71; Special Asst., Bureau of Far Eastern Affairs, Dept. of State 1971-73, mem. Sr. Seminar on Foreign Policy 1973-74, Dir. Office of Cen. Africa 1974-75; Amb. to Zaire 1975-79, appointed Amb. to Iran 1979-. *Leisure interests:* sports, ornithology. *Address:* c/o Department of State, 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

CUTTS, Trevett Wakeham, LL.B.; Australian diplomatist; b. 28 May 1914, Mildura, Victoria; m. Maidie Phyllis Stuhmcke 1945; two s.; ed. Melbourne High School and Melbourne Univ.; Naval war service; joined Dept. of External Affairs 1946; mem. Mission Singapore and Indonesia 1946-50; Official Sec. High Comm. in Canada 1952-54; Counsellor UN 1954-57; Chargé d'affaires Moscow 1959-60; Consul-Gen. San Francisco 1960-62; Amb. to the Philippines 1963-65; High Commr. to Pakistan 1966-68; Amb. to S. Africa 1968-72; High Commr. to Malta 1972-75. *Leisure interests:* golf, sailing. *Address:* 5 Ernest Street, Caloundra, Queensland 4551, Australia.

CYRANKIEWICZ, Józef; Polish politician; b. 23 April 1911, Tarnów; ed. Jagiellonian Univ., Cracow; served in the artillery from the outbreak of war, captured by the Germans, escaped and organized resistance in the Cracow district; arrested and imprisoned in Auschwitz and Mauthausen concentration camps 1941-45; mem. of the Polish Socialist Party 1932-48, Polish United Workers' Party 1948-; Sec.-Gen. of the PSP Cen. Exec. Cttee. 1945-48; mem. of the Cen. Cttee. 1948-75, of the Political Bureau of the PUWP Cen. Cttee. 1948-71; Minister without Portfolio 1946; Deputy to the Seym 1947-72; Premier 1947-52, Vice-Premier 1952-54. Premier 1954-70; Chair. of the Econ. Cttee. of the Council of Ministers 1957-69; Chair. of the Union of Former Political Prisoners 1946-49, Union of Fighters for Freedom and Democracy 1949-72; Chair. Council of State 1970-72, All-Polish Peace Cttee. 1973-; mem. Presidium, All-Polish Cttee. of Nat.Unity Front 1971-, World Peace Council 1973-; Order of Polonia Restituta (First Class) 1949, Order of Banner of Labour (First Class) 1951, Orders of Builders of People's Poland 1964, and other awards. *Address:* Ogólnopolski Komitet Pokoju, ul. Rajców 10, 00-220 Warsaw, Poland.

CZIFFRA, Georges; French concert pianist; b. 5 Nov. 1921, Budapest, Hungary; s. of Julius Cziffra and Helen Nagy; m. Soleyka Abdin 1942; one s. one d.; ed. Conservatoire of Music, Budapest; Cabaret pianist in Hungary 1938-50; went to Paris 1956; recitals and concerts in U.S.A., U.K., Canada, France, Israel, Belgium, Netherlands, Italy, Switzerland, Japan and South America; plays Liszt, Grieg, Tchaikovsky, Beethoven, Schumann, etc.; f. Festival de la Chaise Dieu 1966, Biennial Concours Int. de Piano, Versailles, for young pianists 1968, and Cziffra Foundation; works include Paraphrase—Transcriptions and Improvisations; Chevalier, Légion d'honneur 1973, Commdr., Ordre des Arts et des Lettres. *Publications:* Des canons et des fleurs (autobiog.). *Address:* 4 rue Saint-Pierre, 60300 Senlis, France.

CZINEGE, Lajos; Hungarian politician; b. 24 March 1924, Karczag; s. of József Czinege and Mária Andrási; m. Maria Völgyi 1949; two s. one d.; Agricultural labourer; official Communist Party 1947-51; Lieut.-Col. 1951-54; Lieut.-Gen. 1960; Col.-Gen. 1962-78; Gen. 1978-; mem. Central Cttee., Hungarian Socialist Workers' Party 1959-, Substitute mem. Political Cttee. 1961-70; Minister of Defence 1960-. *Leisure interests:* mountaineering, wild game shooting. *Address:* Ministry of Defence, Pálffy György utca 7/11 H-1885 Budapest V, Hungary. *Telephone:* 322 500

CZUBIŃSKI, LUCJAN, D.JUR.; Polish lawyer; b. 21 July 1930, Dobrzelin, near Kutno; ed. A. Mickiewicz Univ., Poznań; Army 1949-; Officer of Public Prosecutor 1951-; Chief Mil. Prosecutor 1968-72; Brig.-Gen. 1970-; mem. Cen. Revisional Comm. of Polish United Workers' Party, then mem. Presidium 1971-75; Procurator Gen. 1972-; Deputy mem. Cen. Cttee. Polish United Workers' Party Dec. 1975-; Order of Banner of Labour (1st Class), Officer's Cross, Order of Polonia Restituta, Gold Cross of Merit, J. Krasicki Gold Award, Medal of 30th Anniversary of People's Poland. *Publications:* Niektóre problemy odpowiedzialności karnej żołnierzy 1968, Istota rozkazu wojskowego 1969, Kodeks karny, Cześć wojskowa 1969, Wychowawcze treści prawa wojskowego i regulaminów 1970. *Address:* Prokuratura Generalna, ul. Krakowskie Przedmieście 25, 00-071 Warsaw, Poland. *Telephone:* 26-05-05 (Office).

D

DAANE, James Dewey; American banker and educator; b. 6 July 1918, Grand Rapids, Mich.; m. 1st Blanche M. Tichenor 1941 (dissolved); m. 2nd Onnie B. Selby 1953 (deceased); m. 3rd Barbara W. McMann 1963; three d.; ed. Duke Univ. and Harvard Univ.; Fed. Reserve Bank of Richmond 1939-60, Monetary Economist 1947, Asst. Vice-Pres. 1953, Vice-Pres., Dir., Research Dept., 1957; Chief, IMF Mission to Paraguay 1950-51; Vice-Pres., Econ. Adviser, Fed. Reserve Bank of Minneapolis May-July 1960; Asst. to Sec. of U.S. Treasury, Principal Adviser to Under-Sec. for Monetary Affairs 1960-61; Deputy Under-Sec. of Treasury for Monetary Affairs and Gen. Deputy to Under-Sec. for Monetary Affairs 1961-63; mem. Bd. of Govs., Federal Reserve System 1963-74; Vice-Chair. Commerce Union Bank 1974-; Vice-Chair. Tennessee Valley Bancorp 1975-78, Chair. Int. Policy Cttee. 1978-; Vice-Chair. Commerce Union Bank 1974-78; Frank K. Houston Prof. of Banking and Finance, Graduate School of Man., Vanderbilt Univ. 1974-; Dir. Whittaker Corpn., Calif. 1974-; mem. American Finance Assn., American Econ. Assn. *Address:* Commerce Union Bank, 4th and Union, Nashville, Tenn. 37219 (Office); 102 Westhampton Place, Nashville, Tenn. 37205, U.S.A. (Home).

DACKO, David; Central African Empire (frmly. Republic) politician; b. 1930; ed. Ecole Normale, Brazzaville. Minister of Agriculture, Stockbreeding, Water and Forests, Cen. African Govt. Council 1957-58; Minister of Interior, Economy and Trade, Cen. African Provisional Govt. 1958-59; Premier, Cen. African Republic 1959-66, Minister of Nat. Defence, Guardian of the Seals 1960-66; Pres. of Cen. African Repub. 1960-66 (deposed by mil. coup); mem. Mouvement pour l'Evolution Sociale de l'Afrique Noire (MESAN); under house arrest for several years; appointed Personal Adviser to Pres. (now Emperor) Sept. 1976-. *Address:* c/o Office of the Emperor, Bangui, Central African Empire.

DADDAH, Moktar Ould, L.EN.D.; Mauritanian politician; b. 20 Dec. 1924, Boutilmit; ed. secondary school, Senegal and Paris. Interpreter; studied law; with firm Boissier Palun, Dakar; territorial councillor 1957; Premier, Islamic Repub. of Mauritania 1958-78; Pres. of the Repub. 1961-78; Pres. Org. Commune Africaine et Malgache 1965; Chair. OAU 1971-72; Sec.-Gen. Parti du Peuple Mauritanien. *Address:* c/o Office of the President, Nouakchott, Mauritania.

DAHANAYAKE, Wijeyananda; Ceylonese politician; b. 22 Oct. 1902; ed. Richmond Coll. Galle and St. Thomas' Coll. Mount Lavinia; trained teacher; elected mem. Galle Municipal Council 1935-59, Mayor of Galle 1939, 1940 and 1941; elected to the State Council for Bibile 1944; M.P. 1948-; Minister of Educ. 1956-59; Prime Minister, 1959-60; Minister of Home Affairs 1965-70; mem. Nat. State Assembly 1972-; founded Ceylon Dem. Party 1959; Hon. LL.D. (Vidyalankara), Hon. D.Litt. (Vidyodaya). *Address:* c/o National State Assembly, Colombo; 225 Richmond Hill Road, Galle, Sri Lanka (Home). *Telephone:* 09-2403 (Home).

DAHL, Charles Raymond; American business executive; b. Brooklyn, N.Y.; ed. Cooper Union School of Eng., New York and Stanford Graduate School of Business; joined Crown Zellerbach Corpn. 1950, Man. pulp and paper mill, Bogalusa La. 1961-64, Vice-Pres. 1964, Exec. Vice-Pres. 1969, Pres. and Chief Exec. Officer 1970-77, Chair. 1977-; Dir. Pacific Gas and Electric Co.; mem. of American Paper Inst.; mem. Nat. Industrial Pollution Control Council. *Address:* Crown Zellerbach Corporation, One Bush Street, San Francisco, Calif. 94119, U.S.A.

DAHL, Robert Alan, PH.D.; American professor of political science; b. 17 Dec. 1915; s. of Peter I. Dahl and Vera Lewis Dahl; m. 1st Mary Louise Barlett 1940, (deceased 1970), three s. one d.; m. 2nd Ann Goodrich Sale 1973; ed. Univ. of Washington, Div. of Econ. Research, Nat. Labor Relations Bd. and Yale Univ.; Man. Analyst, U.S. Dept. of Agriculture 1940; Economist, Office of Production Man., O.P.A.C.A. and War Production Bd. 1940-42; U.S. Army 1943-45; Yale Univ., successively Instructor, Asst. Prof., Assoc. Prof. and now Sterling Prof. of Political Science 1946-; Chair. Dept. of Political Science 1957-62; Ford Research Prof. 1957; Lecturer in Political Science, Flasco, Santiago, Chile 1967; Guggenheim Fellow 1950; Fellow, Center for Advanced Study in the Behavioral Sciences 1955-56 and 1967; Fellow, American Acad. of Arts and Sciences, American Philosophical Soc., Nat. Acad. of Sciences; Trustee, Center for Advanced Study in the Behavioral Sciences; mem. Educ. Advisory Bd., Guggenheim Foundation; Woodrow Wilson Prize 1963, Talcott Parsons Prize 1977; Bronze Star Medal with Cluster. *Publications:* Congress and Foreign Policy 1950, Domestic Control of Atomic Energy (with R. Brown) 1951, Politics, Economics and Welfare (with C. E. Lindblom) 1953, A Preface to Democratic Theory 1956, Social Science Research on Business (with Haire and Lazarsfeld) 1959, Who Governs? 1961, Modern Political Analysis 1963, Political Oppositions in Western Democracies 1966, Pluralist Democracy in the United States 1967, After the Revolution 1970, Polyarchy: Participation and Opposition 1971, Regimes and Opposition 1972, Democracy in the United States 1972, Size and Democracy (with E. R. Tufte) 1973. *Address:* Department of Political Science, Brewster Hall, Yale University, New Haven, Conn. 06520, U.S.A.

DAHLBECK, Eva; Swedish actress and author; b. 8 March 1920, Nacka; d. of Edvard Dahlbeck and Greta Österberg; m. Col. Sven Lampell 1944; two s.; ed. Royal Dramatic Threatre School, Stockholm. *Films acted in include:* The Counterfeit Traitor 1961, Biljett till Paradiset 1961, För att inte tala om alla dessa Kvinnor 1964, Alskande par 1964, Kattorna 1965, Les créatures 1965, Den Röda Kappan 1966. *Plays acted in include:* Candida 1961, Ändå älskar vi varavdra 1963, Tchin-Tchin 1963, The Balcony 1964, Doctors of Philosophy 1964. *Publications:* Dessa mina minsta (play) 1955, Hem till Kaos (novel) 1964, S'is'ta Spegeln (novel) 1965, Den S'junde Natten (novel) 1966, Domen (novel) 1967, Med Seende Ögon (novel) 1972, Hjrätslagen (novel) 1974, Saknadens Dal (novel) 1976. *Leisure interests:* reading, music. *Address:* c/o Svenska Filminstitutet, Kungsgatan 48, Stockholm C, Sweden; 35 Chemin Pont du Centenaire, CH 1213 Onex, Switzerland (Home). *Telephone:* 924452.

DAHLGAARD, Tyge; Danish economist and diplomatist; b. 8 April 1921, Copenhagen; s. of Bertel Dahlgaard; m. Karen Joergen- 1947; two d.; ed. Copenhagen Univ.; Jr. Economist, Ministry of Agriculture 1947-49; Perm. Rep. to UN, Geneva 1949-50; Asst. Head of Section (Multilateral Econ. Problems), Ministry for Foreign Affairs 1950-54; Danish Sec.-Gen. Nordic Cttee. for Econ. Cooperation 1954-57; Counsellor, Danish Perm. Del. to OEEC, Paris 1957-59; Counsellor (Econ. Affairs), Danish Embassy, Washington, D.C. 1959-64; Amb. and Perm. Rep. to EEC, ECSC and EURATOM, Brussels 1964-66; Minister of Commerce and European Market Relations 1966-67; Amb. to Yugoslavia 1968-72, to Japan and Repub. of Korea 1972-76, to The Netherlands Nov. 1976-. *Leisure interests:* music, piano playing, reading political and historical literature. *Address:* c/o Danish Embassy, Koninginnegracht 30, The Hague, Netherlands. *Telephone:* 70-655830.

DAHL-IVERSEN, Erling, M.D., D.M.SC.; Danish surgeon; b. 30 Nov. 1892, Copenhagen; s. of Anders Dahl-Iversen and Catherine Pedersen; m. Inga Margrethe Thortsen 1925; two s.; ed. Univ. of Copenhagen and Copenhagen hospitals; Prof. of Surgery, Univ. of Copenhagen 1935-63, Emer. 1963-; Surgeon-in-Chief, Univ. Clinic C, Rigshospitalet, Copenhagen 1935-63; Hon. Fellow American Coll. of Surgeons, Royal Coll. of Surgeons (U.K. and Ireland); Hon. mem. Soc. Int. de Chirurgie; Foreign Assoc. Académie de Chirurgie, Paris. *Publications:* Etude expérimentale de l'influence de la cholecystectomie sur les voies biliaires et la sécrétion gastrique 1924, Operative Surgery 1939, Special Urological Diagnostics 1942, Physical Signs in Surgery 1944, Clinical Surgery I 1952, II 1955, The Importance of Sex-Hormones in the Physiological and Pathological Conditions of the Breast 1935, The Influences of Endocrines in the Post-operative Period 1955, Surgery in Denmark in the 19th Century 1960, Surgery in Denmark in the 18th Century 1965, and numerous surgical papers. *Leisure interest:* painting. *Address:* Tranegaardsvej 24, Copenhagen-Hellerup, Denmark. *Telephone:* Hellerup 7820.

DAHLSTEN, Gunnar, ECON.SC.; Swedish company executive; b. 25 July 1927, New York, N.Y., U.S.A.; s. of Gunnar and Kate (Wiberg) Dahlsten; m. Monica Louise Häller 1951; two s. two d.; ed. Gothenburg School of Econs.; Econ. Dept., Mölnlycke AB, Gothenburg 1951, Deputy Man. Dir. 1964, Man. Dir. and mem. Bd. of Dirs. 1965; Man. Dir. Swedish Match Co., Stockholm June 1977–; Knight of Royal Order of Vasa (1st Class). *Leisure interest:* sailing. *Address:* The Swedish Match Company, Västra Trädgårdsgatan 15, P.O. Box 16 100, 103 22 Stockholm, Sweden. *Telephone:* 08-22 06 20.

DAHRENDORF, Ralf Gustav, F.B.A., DR.PHIL., PH.D.; German university administrator, sociologist and politician; b. 1 May 1929, Hamburg; s. of Gustav Dahrendorf and Lina Witt; ed. Hamburg Univ. and London School of Econs.; Asst., Univ. of Saar, Saarbrücken 1954, Privatdozent in sociology 1957; Fellow, Center for Advanced Study in the Behavioral Sciences, Palo Alto, U.S.A. 1957-58; Prof. of Sociology, Hamburg 1958, Tübingen 1960, Constance 1966 (on leave since 1969); Visiting Prof. at several European and North American univs.; Vice-Chair. Founding Cttee. Univ. Constance 1964-66, First Dean Faculty of Social Science 1966-67; Adviser on educational questions to the Land Govt. of Baden-Württemberg 1964-68; mem. German Council of Educ. 1966-68; Chair. Comm. on Comprehensive Univ. Planning 1967-68; mem. Free Dem. Party (FDP) 1967, Fed. Exec. 1968-74; mem. Land Diet of Baden-Württemberg and Vice-Chair. FDP Parl. Party 1968-69; mem. Fed. Parl. (Bundestag) and Parl. Sec. of State in Foreign Office 1969-70; mem. Comm. of the European Communities 1970-74; Chair. Royal Univ. of Malta Comm. 1972-74; mem. Hansard Soc. Comm. for Electoral Reform 1975-76, Royal Comm. on Legal Services 1976-78, Cttee. to Review the Functioning of Financial Institutions 1977-; Dir. European Centre for Research and Documentation in Social Sciences 1966-, L.S.E. 1974-; Pres. German Sociological Soc. 1967-70; Hon. Presidium Anglo-German Soc. 1973-; Senator Max-Planck Gesellschaft 1975-; Chair. Social Science Council of the European Science Foundation 1976-77; mem. German PEN Centre 1971-; Foreign Assoc., Nat. Acad. of Sciences, Washington D.C. 1977; Foreign mem. American Philosophical Soc., Phila. 1977; Hon. mem. Royal Irish Acad. 1974; Foreign Hon. mem. American Acad. of Arts and Sciences 1975; Fellow Imperial Coll., London 1974, Royal Soc. of Arts 1977, British Acad. 1977; Hon. Fellow L.S.E. 1973; Trustee Ford Foundation 1976; Hon. D.Litt (Reading) 1973, LL.D. (Manchester) 1973, D.Sc. (Ulster) 1973, (Bath) 1977, D. Univ. (Open Univ.) 1974, D.H.L. (Kalamazoo Col.) 1974, Litt.D. (Trinity College, Dublin) 1975, Hon. Dr. (Univ. Catholique de Louvain) 1977, Hon. LL.D. (Wagner Coll., Staten Is., New York) Hon. D.H.L. (Maryland) 1978, Hon. D. Univ. (Surrey) 1978; Journal Fund Award for Learned Publications 1966; BBC Reith Lecturer 1974; Grand Croix de l'Ordre du Mérite du Sénégal 1971, Grand Croix de l'Ordre du Mérite du Luxembourg 1974, Grosses Bundesverdienstkreuz mit Stern und Schulterband (Feb. Repub. of Germany) 1974, Grosses goldenes Ehrenzeichen am Bande (Austria) 1975, Grand Croix de l'Ordre de Léopold II (Belgium) 1975. *Publications include:* Marx in Perspective 1953, Industrie- und Betriebssoziologie 1956, Homo Sociologicus 1959, Soziale Klassen und Klassenkonflikt 1957 and 1959, Die angewandte Aufklärung 1963, Gesellschaft und Demokratie in Deutschland 1965, Pfade aus Utopia 1967, Essays in the Theory of Society 1968, Konflikt und Freiheit 1972, Plädoyer für die Europäische Union 1973, The New Liberty: Survival and Justice in a Changing World (Reith Lectures) 1975, Lebenschancen 1979, A New World Order? (Ghana Lectures 1978), 1979. *Address:* London School of Economics and Political Science, Houghton Street, London, WC2A 2AE, England. *Telephone:* 01-405 7686.

DAICHES, David, M.A. (EDIN.), D.PHIL (OXON.), PH.D. (CANTAB.); British university professor and writer; b. 2 Sept. 1912, Sunderland; s. of Dr. Salis and Flora (née Levin) Daiches; m. 1st Isobel J. Mackay 1937 (died 1977) [illegible] s. two d.; m. 2nd Hazel Neville 1978; ed. George Watson's Coll., Edinburgh, Edinburgh Univ. and Balliol Coll., Oxford; Bradley Fellow, Balliol Coll., Oxford 1936-37; Asst. Prof. of English, Univ. of Chicago 1940-43; Sec. Sec. British Embassy, Washington 1944-46; Prof. of English, Cornell Univ. 1946-51; Univ. Lecturer in English, Cambridge Univ. 1957-61, Fellow of Jesus Coll., Cambridge 1957-62; Dean, School of English Studies, Univ. of Sussex 1961-67, Prof. of English 1961-77, Prof. Emer. 1977-; Hon. Litt.D. (Brown, Edinburgh, and Sussex Univs.); Dr. h.c. (Sorbonne); many awards and prizes. *Publications:* 35 books including: The Novel and the Modern World 1939, A Study of Literature 1948, Robert Burns 1950, Two Worlds 1956, Critical Approaches to Literature 1956, Literary Essays 1956, Milton 1957, A Critical History of English Literature 1960, More Literary Essays 1968, Scotch Whiskey 1969, Sir Walter Scott and his World 1971, A Third World (autobiography) 1971, Robert Burns and his World 1971, Prince Charles Edward Stuart 1973, Robert Louis Stevenson and his World 1973, Was 1975, Moses 1975, James Boswell and His World 1976, Scotland and the Union 1977, Glasgow 1977, Edinburgh 1978. *Leisure interests:* music, talking. *Address:* 9 Randolph Crescent, Edinburgh, EH3 777, Scotland.

DAINTON, Sir Frederick Sydney, Kt., F.R.S., PH.D., SC.D.; British scientist and university administrator; b. 11 Nov. 1914, Sheffield; s. of George Whalley and Mary Jane Dainton; m. Barbara Hazlitt, PH.D., 1942; [illegible] s. two d.; ed. Central Secondary School, Sheffield, St. John's Coll., Oxford and Sidney Sussex Coll., Cambridge; Univ. Demonstrator in Chem., Cambridge Univ. 1944, H. O. Jones Lecturer in Physical Chem. 1946; Prof. of Physical Chem. Leeds Univ. 1950-65; Vice-Chancellor, Univ. of Nottingham 1965-70; Prof. Dept. of Physical Chem., Univ. of Oxford 1970-73; Visiting Prof. Univ. of Toronto 1949; Mass. Inst. of Tech. 1959; Tilden Lecturer Chemical Soc. 1950; Lecturer, Univ. of Notre Dame, Indiana 1952; Cornell Univ. 1961, Univ. of Alberta 1962; Fellow, St. Catharine's Coll., Cambridge 1945, Praelector 1946; Chair., Assen. for Radiation Research 1964-66, Advisory Cttee. for Scientific and Tech. Information 1966-, Nat. Radiological Protection Bd. 1978-; mem. Council for Scientific Policy 1965-, Chair. 1970-73, Cen. Advisory Council for Science and Tech. 1967-; Chair. Advisory Bd. for Research Councils 1972-; Chair. Univ. Grants Cttee. 1973-78, British Library Bd. 1978-; Pres. Faraday Soc. 1965-67, Chemical Soc. 1972-73, Assen. for Science Educ. 1967; Centenary Pres. Library Assen. 1977; Chancellor, Univ. of Sheffield 1978-; mem. Genetic Manipulation Advisory Group 1979-; Hon. mem. Royal Soc. of Science, Uppsala, American Acad. of Arts and Sciences, Göttingen Acad. of Sciences; Hon. Fellow, St. Catharine's Coll., Cambridge 1961, St. John's Coll., Oxford 1968; Trustee British Museum (Nat. Hist.), Int. Council Educ. Devt.; Hon. Sc.D. (Łódź and Trinity Coll., Dublin); many hon. degrees from British and foreign Univs.; Sylvanus Thompson Medal, British Inst. of Radiology 1958, Davy Medal, Royal Soc. 1969, Faraday Medal, Chemical Soc. 1973. *Publications:* Chain Reactions 1956, Photochemistry and Reaction Kinetics 1968; numerous papers in scientific journals on reaction kinetics, especially photo and radiation chemistry, polymer chemistry and on scientific policy and education. *Leisure interests:* walking, colour photography. *Address:* Fieldside, Water Eaton Lane, Kidlington, Oxford, England (Home).

DAKOV, Mako; Bulgarian politician; b. 5 Dec. 1920, Pleven; m. Milka Stefanova 1951; two d.; ed. studies in forestry engineering; Dir. of Scientific Research, Inst. of Forestry 1950-51; Prof. Higher Forestry and Tech. Inst. 1951-57; Deputy Minister of Agriculture and Forestry 1957, subsequently Chair. Cttee. for Forestry; Minister for Forestry and Forest Industry 1966-71; Deputy Chair. Council of Ministers 1971-78. *Publications:* more than 120 publications on politics, economics and forestry. *Leisure interest:* sport (especially tennis). *Address:* c/o Council of Ministers, Sofia, Bulgaria. *Telephone:* 87-61-51.

DALAI LAMA, The (Tenzin Gyatso); temporal and religious head of Tibet; Fourteenth Incarnation; b. 6 July 1935, Taktser; born of Tibetan peasant family in Amdo Province; enthroned at Lhasa 1940; rights exercised by regency 1934-50; assumed political power 1950; fled to Chumbi in S. Tibet after abortive resistance to Chinese 1950; negotiated agreement with China 1951; Vice-Chair. Standing Cttee., mem. Nat. Cttee. CPPCC 1951-59; Hon. Chair. Chinese Buddhist Assen. 1953-59; Del. to Nat. People's Congress 1954-59; Chair. Preparatory Cttee. for the "Autonomous Region of Tibet" 1955-59; left Tibet for India after abortive resistance to Chinese 1959; Dir. of Buddhist Philosophy 1959; Supreme Head of all Buddhist sects in Tibet. *Publications:* My Land and People 1962, The Opening of the Wisdom Eye 1963, Key to the Middle Way 1971. *Address:* Thekchen Choling, Dharmsala Cantt., Kangra District, Himachal Pradesh, India.

DALE, William B.; American financial official; b. 24 March 1924; ed. Wayne High School, Michigan, Univ. of Michigan and Fletcher School of Law and Diplomacy; Asst. U.S. Treasury Rep., Brussels 1948-50, Acting U.S. Rep. 1951-52; Deputy Chief, British Commonwealth and Middle East Div., U.S. Treasury Dept. 1952-53; U.S. Treasury Rep. in Middle East 1953-55; Program Man., Int. Research, Stanford Research Inst., Washington 1956-61; Dir. Bureau of Int. Programs, U.S. Dept. of Commerce 1961-62; Deputy Asst. Sec. for Int. Affairs, U.S. Dept. of Commerce 1962; U.S. Exec. Dir. IMF 1962-74, Deputy Man. Dir. March 1973-. *Address:* 6008 Landon Lane, Bethesda 14, Md., U.S.A.

DALEA, Mihai; Romanian politician; b. 21 Feb. 1917, Tirnava, Caraș-Severin County; mem. Romanian Communist Party (RCP) 1935-; Sec. Caraș County Cttee. RCP 1944-45; mem. Banat Regional Cttee. 1945-46; Gen. Sec. Union of Working Youth 1947-48; Vice-Chair State Control Comm. 1949-51; Amb. to U.S.S.R. (also accred. to Finland) 1952-54, 1956-60; Minister for Agric. Purchases 1955-56; Chair. Higher Council of Agric. 1962-65; Pres. Gen. Trades Union Confed. 1972-75; mem. Cen. Cttee. RCP 1948-, Sec. Cen. Cttee. 1954-55, 1960-69; Chair. Cen. College RCP 1969-72, 1975-77; alt. [illegible] Exec. Political Cttee. 1970-; [illegible] Chamber of Deputies 1946-47; mem. Grand Nat. Ass. 1948-; Vice-Pres. Nat. Council Socialist Unity Front 1977-; Hero of Socialist Labour 1971. *Address:* Consiliul Național al Frontului Unității Socialiste, Bucharest, Romania.

DALHOUSIE, 16th Earl of; **Simon Ramsay,** G.B.E., M.C., D.L., LL.D.; British politician and fmr. Governor-General; b. 17 Oct. 1914; ed. Eton Coll., and Oxford Univ.; served in Black Watch 1936-45; M.P., 1945-50; Conservative Whip 1946-48; Gov.-Gen. Fed. of Rhodesia and Nyasaland 1957-63; Lord Lieut. District of Angus 1965; Lord Chamberlain to H.M. Queen Elizabeth, the Queen Mother 1965; Chancellor of Dundee Univ. 1977-; Hon. LL.D. (Dundee Univ.) 1967. *Address:* Brechin Castle, Brechin, Scotland.

DALI, Salvador; Spanish painter; b. 11 May 1904; ed. Acad. of Fine Arts, Madrid and Paris; Futurist, Constructivist and Surrealist; designer of film scenarios, scenery and costumes for ballet and opera; lecturer in Museum of Modern Art, New York 1935; Exhbn. of Jewels, London 1960; retrospective exhbn., Rotterdam 1970-71. *Publications:* Babaoua, Secret Life of Salvador Dali 1942, Hidden Faces, Fifty Secrets of Magic Craftmanship, Dali on Modern Art, The World of Salvador Dali, Le Mythe Tragique de l'Angélus de Millet, Diary of A Genius 1965, The Unspeakable Confessions of Salvador Dali 1976. *Address:* c/o Carstairs Gallery, 11 East 57th Street, New York 22; Hotel St. Regis, Fifth Avenue and 55th Street, New York 22, New York, U.S.A.; Port-Lligat, Cadaqués, Spain (Home).

DALLDORF, Gilbert, M.D., D.SC.; American experimental pathologist and administrator; b. 12 March 1900, Davenport, Iowa; s. of Julius and Hulda (Leisner) (Dalldorf) Goos; m. Frances Elizabeth Barnhart 1926; [illegible] d.; ed. Univs. of Iowa and Freiburg, New York Univ. and Cornell Univ. Medical Coll. Pathologist, New York Hosp. 1926-30; Dir. of Lab., Grasslands Hosp. 1930-45; Dir. Div. of Lab. and Research, N.Y. State Dept. of Health and Prof. of Pathology, Albany Medical Coll. 1945-57; Prof., Univ. of Buffalo Medical School 1950-57, Graduate School of Cornell Univ. 1958-67; retd.; [illegible] Sloan-Kettering Inst. 1958-67, Nat. Acad. of Sciences, Assen. of American Physicians, Assen. of Immunology, Soc. of Experimental Pathology, Assen. of Public Health Labs. (Pres. 1942); research, in vitamin deficiency diseases 1926-37, in virus diseases 1937-57, and in neoplastic diseases 1958-69; Dr. h.c. (Albert Ludwigs Univ. and Bowdoin Coll.); Fisher Memorial Award 1951, Distinguished Service Award, New York Univ. Alumni 1956, Albert Lasker Award 1959, Medal of New York Acad. of Medicine 1964. *Publications:* Avitaminoses (with Walter Eddy) 1937-41, Introduction to Virology 1955, Fungi and Fungous Diseases 1962. *Leisure interest:* sailing. *Address:* Oxford, Maryland 21654, U.S.A. *Telephone:* 301-226-5357.

DALLE, François Léon Marie-Joseph, L. EN D.; French busi[illegible] executive; b. 18 March 1918, Hesdin; s. of Joseph and Jeanne (Dumont) Dalle; m. 1st Miss Estampa, one s. [illegible] d.; [illegible] 2nd Miss Girard, [illegible] s.; m. 3rd Sophie Camplez, [illegible] s. one d.; ed. Saint-Joseph de Lille, Faculty of Law, Paris; fmr. advocate, Court of Appeal, Paris 1941-42; Plant Man., then Asst. Gen. Man., Monsavon Co. 1945-48, Marketing Man., l'Oréal 1948-50, Asst. Gen. Man. 1950-57, Gen. Man. Monsavon-L'Oréal 1957-; Pres. Union of perfumery and beauty salon suppliers 1957-; Chair. Saipo; Dir. Philips (France),. Banque Nat. de Paris, Masson Editeurs, Union des Annonceurs, Dir. and [illegible] bd. Nestlé S.A. 1975-, fmr. dir. Lancôme; Vice-Pres. Institut Pasteur 1970-78; Hon. Dir. 1978-; Pres. Exec. Cttee. Humanisme et Entreprise 1968-; mem. staff, Conseil Nat. du Patronat Français 1968, Exec. Council 1972-75; Founder and Pres. Entreprise et Progrès Assen. 1969, mem. Man. Cttee. 1971-; Dir. Futuribles Int. Assen., INSEAD, [illegible] council Centre d'Etudes Littéraires et Scientifiques Appliquées (CELSA), Vice-Pres. Institut de l'Entreprise 1975-; fmr. Pres. Mennen-France, Dir. Centre Européen d'Educ. Permanente; Officer, Légion d'honneur, Médaille de la Résistance, Officier des Palmes académiques, Commdr. della Repubblica Italiana. *Publications:* L'entreprise du futur (with Jean Bounine Cabalé) 1971, Quand l'entreprise s'éveille à la conscience sociale (with Jean Bounine Cabalé) 1975, Dynamique de l'auto-reforme de l'entreprise (with Nicolas Thiéry) 1976. *Leisure interests:* writing, hunting. *Address:* Centre Eugene Schueller, 41 rue Nartre, 92117 Clichy (Office); 11 rue de Chanaleilles, 75007 Paris, France (Home). *Telephone:* 731.11 45 (Office); 705-17-25 (Home).

DALLEY, Christopher Mervyn, C.M.G., M.A., M.I.MECH.E., F.INST.PET.; British oil executive; b. 26 December 1913, U.S.; s. of late Christopher Dalley; m. Elizabeth A. Gammell 1947; one s. three d.; ed. Epsom Coll., Surrey and Queens' Coll., Cambridge; served in Royal Navy 1939-45; joined British Petroleum Co. 1946; Iranian Oil Producing Co. 1954-62; Iraq Petroleum Co. and assoc. cos., Man. Dir. 1963-70, Chair. 1970-73; Dir. Viking Resources Trust 1973-; Chair. Oil Exploration (Holdings) 1973-, Viking Jersey Equipment Ltd. 1973; Order of Homayoun (Iran). *Address:* Mead House, Woodham Walter, [illegible] Maldon, Essex and 6 Godfrey Street, London, S.W.3, England (Homes). *Telephone:* Danbury 2404 (Essex); 01-352 8260.

DALLIER, Louis, L.EN D.; French diplomatist; b. 7 March 1914, Paris; s. of Gustave and Andrée (Dunet) Dallier; m. Elaine Landau 1950; ed. Massillon and Stanislas Colls. and Paris Univ.; govt. service in Morocco as Contrôleur civil 1938-56; joined Foreign Service 1956; Auditor, NATO Defence Coll. 1956; UN and Int. Orgs. section of Foreign Service 1957-60, Second Counsellor Tel Aviv 1960, First Counsellor Vienna 1965, Amb. to Mali 1968-75, to Chad 1975, full rank of Amb. 1978; Officier, Légion d'honneur; Croix de guerre 1939-45, Commdr. de l'Ordre nat. du Mérite. *Address:* Ambassade de France, N'Djamena, Chad; La Marthoune, Sainte Marguerite, La Garde 83, France (Home).

DALRYMPLE, Ian Murray, B.A., F.R.S.A.; British writer, film producer and director; b. 26 Aug. 1903, Johannesburg, S. Africa; s. of late Sir William Dalrymple and Lady Dalrymple; m. 2nd Joan Margaret Craig 1939; three s. [illegible] d.; ed. Rugby School and Trinity Coll., Cambridge; Film Editor 1927-35; writer of screen plays 1935-40; Exec. Producer, Crown Film Unit, Ministry of Information 1940-43; Assoc. Exec. Producer, M.G.M.-London Films 1943-46; Producer and Man. Dir. Wessex Film Productions Ltd. 1946-; Advisory Producer, British Lion Film Corpn. Ltd. 1952-54; Chair. British Film Acad. 1957-58; Fellow, Royal Soc. of Arts. *Principal productions:* A Cry from the Streets, The Admirable Crichton, A Hill in Korea, Raising [illegible] Riot, The Heart of the Matter, Bank of England, The Changing Face of Europe (a series of six short films in colour [illegible] European recovery), The Wooden Horse, All over the Town, Once [illegible] Jolly Swagman, Dear Mr. Prohack, Esther Waters, The Woman in the Hall, Western Approaches, Target for To-night, London Can Take It, Chaucer's Tale; [illegible] writer of screen plays: South Riding, The Citadel, Storm in [illegible] Teacup, Pygmalion, etc. *Leisure interests:* reading, weeding. *Address:* 3 Beaulieu Close, Cambridge Park, Twickenham, TW1 2JR, England.

DALSAGER, Poul Christian; Danish politician; b. 5 March 1929, Hirtshals; s. of Verner and late Carla (née Svendsen) Dalsager; m. Betty Jørgensen 1951; two s.; M.P. 1964-; del to UN Ass. 1969 and 1971; Chair. of Common Market Cttee., Parl. 1971-73; mem. EEC Parl. 1973-74; Minister of Agriculture and Fisheries 1975-77; Minister of Agriculture 1977-78; Chair, Social Democratic Group in Parl. 1978. *Address:* Gram Mikkelsens Vej 12, 9800 Hjoerring, Denmark. *Telephone:* 08-922267.

DALTON, Jack; American librarian; b. 21 March 1908, Holland, Va., s. of John Preston and Selma (Butler) Dalton; m. Mary Armistead Gochnauer 1933; [illegible] s.; ed. Virginia and Michigan Univs.; Instructor in English, Virginia Polytechnic Inst. 1930-34; Reference Librarian, Univ. of Va. 1934-42, Assoc. Librarian 1942-50, Librarian 1950-56; Dir. Int. Relations Office, American Library Assen. 1956-59; Dean, School of Library Service, Columbia Univ. 1959-70; Dir. Library Devt. Centrer, Columbia Univ. 1970-79. *Address:* School of Library Service, Columbia Univ., New York 27, N.Y. (Office); 445 Riverside Drive, New York, N.Y. 10027, U.S.A. (Home). *Telephone:* MO3-3359.

DALY, John (Charles), Jr.; American (b. South African) broadcaster; b. 20 Feb. 1914, Johannesburg; s. of John Charles and Helen Grant (Tennant) Daly; m. 1st Margaret Criswell Neal 1937 (deceased), 2nd Virginia Warren 1960; four s. two d.; ed. Boston Coll.; Schedule Engineer, Capital Transit Co., Washington 1935-37; Corresp. and News Analyst, Columbia Broadcasting System 1937-49; Special Events Reporter and White House Corresp. 1937-41, service in U.S.A., Europe and South America for C.B.S. 1945-49; Corresp.-Analyst, American Broadcasting Co., also Moderator, television programmes on all networks; Vice-Pres. American Broadcasting Co., in charge of News, Special Events and Public Affairs 1953-60; mem. Water Pollution Control Advisory Bd. 1960-62; Dir. Voice of America 1967-68, Consultant, Citibank, New York 1971-; Moderator American Enterprise Inst., Washington, 1976-. *Address:* 1070 Park Avenue, New York, N.Y. 10028, U.S.A.

DAMAS, Aléka Georges; Gabonese politician; b. 18 Nov. 1902, Libreville; m.; eight c.; ed. Mission Catholique de Libreville, Ecole Universelle (correspondence course) Paris, diplomatic training course, Quai d'Orsay, Paris; worked in bank 1924-39; Chief Accountant, Compagnie Maritime des Chargeurs Réunis, Libreville 1939-59; del. Conseil d'Admin., Gouvernement Gén. de l'Afrique Equatoriale Française 1943-46; deputy mem. Privy Council to Gov. of Gabon 1948-54; Town Councillor, Libreville 1956-63; Amb. to EEC, Belgium, Netherlands and Luxembourg 1961-64, to Fed. Repub. of Germany 1963-64; mem. Gabonese Nat. Ass. 1964-, Pres. 1964-75; High Councillor of State 1975-76; Admin., Shell-Gabon Co., Port Gentil 1960-; Composer of La Concorde (Gabon Nat. Anthem); Chevalier, Légion d'honneur, Etoile Noire du Bénin, Ordre des Arts et Lettres, Grand Officier, Etoile Equatoriale, Ordre Nat.

Gabonais, Ordre du Mérite Centraficaine, etc. *Publications:* L'homme noir, Recueil des allocutions prononcées par M. Georges Damas-Aléka. *Address:* National Assembly, Libreville, Gabon.

DAMON, Roger Conant, B.A.; American banker; b. 4 Aug. 1906, Fitchburg, Mass.; s. of Isaac and Marion (Conant) Damon; m. Ruth T. Hawley 1931; one d.; ed. Hotchkiss School, Yale Coll, and Stonier Graduate School of Banking; joined First Nat. Bank of Boston 1929, Asst. Cashier 1936-41, Asst. Vice-Pres. 1941-43, Vice-Pres. 1943-52, Sr. Vice-Pres. 1952-59, Dir. 1956-, Pres. and Chair. of Exec. Cttee. 1959-71, Chair. of Bd. and Chief Exec. Officer 1966-71; Chair. First Nat. Boston Corpn. 1970-71; Dir. Edison Co., New England Mutual Life Insurance Co., Raytheon Co., Massachusetts Bay United Fund Inc., Eastern Air Lines Inc., Howard Johnson Co., Liberty Mutual Insurance Co., and other Cos.; official of other financial and educational orgs. *Leisure interests:* golf, duck-shooting, salt-water fishing. *Address:* 100 Federal Street, Room 712, Boston, Mass. 02110 (Office); 172 Beacon Street, Boston, Mass. 02116, U.S.A. (Home).

DAN DICKO, Dankoulodo; Niger scientist and international official; b. 1934, Maradi; ed. Acad. de Dakar-Bordeaux and Acad. de Montpellier; Asst. Lecturer in Chem., Univ. of Montpellier, France 1958-61; Lecturer, Faculty of Science, Univ. of Abidjan, Ivory Coast 1966-67, Maître des Conférences, Abidjan 1967-72; Vice-Pres. Econ. and Social Council, Niger 1969-71; Minister of Nat. Educ., Youth and Sport, Niger 1971-74; Prof., Niamey 1971-74; Sec.-Gen. Agency for Cultural and Tech. Co-operation, Paris 1974-; mem. Exec. Council, Int. African Inst., London 1976-; Chevalier, Ordre de Mérite de la République de Côte d'Ivoire. *Publications:* numerous scientific articles. *Address:* Agence de Coopération Culturelle et Technique, 19 avenue de Messine, 75008 Paris, France; B.P. 100, Niamey, Niger.

DĂNĂLACHE, Florian; Romanian politician; b. 9 July 1915, Bucharest; m. Virginia Dănălache; one s. one d.; ed. Acad. of Econ. Studies, Bucharest; mem. Romanian Communist Party 1944; mem. Cen. Cttee. 1955-; alt. mem. Exec. Cttee. of Cen. Cttee. of RCP 1965-67, mem. Exec. Cttee. 1967; First Sec., Bucharest Town Cttee. of the RCP 1954-66; Minister of Railroads 1966-69; Chair. Romanian Gen. Trade Union 1969-71; Minister of Transport and Telecommunications Feb. 1971-72; Chair. Central Union of Handicraft Co-operatives 1972-; Deputy to Grand Nat. Assembly 1952-; [illegible] of Grand Nat. Assembly Presidium 1958-61; Chair. Comm. for Defence of Grand Nat. Assembly 1961-66; Hero of Socialist Labour. *Address:* UCECOM, Calea Plennei 46, Bucharest, Romania.

DANCKWERTS, Peter Victor, S.M., G.C., M.B.E., F.R.S.; British chemical engineer; b. 4 Oct. 1916, Southsea; s. of Vice-Admiral V. H. Danckwerts, C.M.G. and Joyce Middleton; m. Lavinia Anne MacFarlane 1960; ed. Winchester Coll. School, Balliol Coll., Oxford, Massachusetts Inst. of Tech.; served in Royal Navy (Lieut.) 1940-46; Graduate Student, M.I.T. 1946-48; Lecturer, Cambridge Univ. 1948-54; Deputy Dir. of Research and Devt., U.K. Atomic Energy Authority, Industrial Group 1954-56; Prof. of Chem. Eng. Science, Imperial Coll. of Science and Tech. 1956-59; Shell Prof. of Chem. Eng. 1959-77; E. V. Murphree Award of American Chem. Soc.; Hon. Foreign Fellow, American Acad. of Arts and Sciences, Prof. Emer. 1977; Foreign Assoc. Nat. Acad. of Eng. 1978; Hon. Fellow Inst. of Chem. Engineers. *Publications:* Gas-Liquid Reactions 1970, numerous scientific papers. *Address:* Department of Chemical Engineering, Pembroke Street, Cambridge, England. *Telephone:* 58231.

DANDAVATE, Madhu; Indian politician and fmr. professor of physics; b. 21 Jan. 1924, Ahmed Nagar, Maharashtra; ed. Royal Inst. of Science, Bombay; participated in Independence Movement, later in Quit India Movement 1942; leader of passive resistance in Goa Campaign 1955; took part in Samyukta Maharashtra Movement for formation of Maharashtra state; joined Praja Socialist Party (PSP) 1948, Chair. Maharashtra State Unit of PSP, later Joint Sec. of All-India PSP; participated in Land Liberation Movement 1969; associated with Maharashtra Citizens' Defence Cttee. during conflicts with People's Repub. of China and Pakistan; mem. Maharashtra Legis. Council 1970-71; mem. Lok Sabha from Rajapur 1971-; Vice-Principal and Head of Physics Dept., Siddhartha Coll. of Arts and Science, Bombay until 1971; mem. Janata Party 1977–; Minister of Railways March 1977-. *Publications:* Gandhiji's Impact on Socialist Thinking, Three Decades of Indian Communism, Evolution of Socialist Policies, Kashmir—a Test for Secularism, Myth and Mystery of Congress Socialism, Bharatiya Swarajwad (in Marathi). *Address:* Ministry of Railways, New Delhi, India.

DANFORTH, John Claggett, L.H.D., LL.D., D.D.; American lawyer and politician; b. 5 Sept. 1936, St. Louis; s. of Donald and Dorothy Danforth; m. Sally B. Dobson 1957; four d. one s.; ed. Princeton and Yale Univs., Drury Coll., Lindenwood Coll., Lewis and Clark Coll.; Admitted to N.Y. bar 1964, Mo. bar 1966; David, Polk, Wardwell, Sunderland and Kiendl, law firm 1964-66, Bryan, Cave, McPheeters and McRoberts 1966-68; Attorney-Gen. of Missouri 1968-76; ordained Deacon of Episcopal Church 1963; Asst. Rector, New York, 1963-66; Assoc. Rector, Clayton, Mo. 1966-68, Grace Church, Jefferson City 1969-; Senator from Mo. Jan. 1977-; Chair. Mo. Law Enforcement Assistance Council 1973; Republican. *Address:* United States Senate, Capitol Hill, Washington, D.C. 20510 (Office); Route 1, Box 43, Newburg, Mo. 65550, U.S.A. (Home).

DANGE, Shripad Amrit, M.P.; Indian trade union leader; b. 10 Oct. 1899; m. 1928; two d.; took [illegible] prominent part in organizing Textile Workers' Unions in Bombay; one of the founders of Indian Communist Party 1924; arrested on many occasions for trade union and political activity; sentenced to twelve years' transportation in the Meerut conspiracy trial; released 1936; imprisoned 1939-43; Pres. Girni Kamgar Union; Pres. All-India T.U.C. 1943-45; Del. to W.F.T.U. Paris 1945, Moscow 1946; Vice-Pres. W.F.T.U. 1948; Editor and Founder of Socialist 1922, first Marxist paper in India; Editor and Founder of Kranti, first working-class paper in Marathi language; mem. Legis. Assembly, Bombay 1946-51; imprisoned 1948-50; Gen. Sec. All-India Trade Union Congress 1956-; [illegible] Legis. Assembly, New Delhi 1957-62, 1967-72; Chair. Nat. Council, Indian Communist Party 1962-77; Order of Lenin 1974. *Publications:* Gandhi versus Lenin 1921, Hell Found 1927, Literature and the People 1945, India from Primitive Communism to Slavery 1949, One Hundred Years of our Trade Unions 1952, Mahatma Gandhi and History 1968, When Communists Differ 1970, etc. *Leisure interests:* history, philosophy, literature. *Address:* 9 Kohinoor Road, Dadar, Bombay 400014; Ajoy Bhavan, Kotla Marg, New Delhi 110004, India.

DANIEL, (Elbert) Clifton, Jr.; American newspaperman; b. 19 Sept. 1912, Zebulon, N.C.; s. of Elbert and Elvah Daniel; m. Margaret Truman 1956; four s.; ed. Univ. of North Carolina; Assoc. Editor Daily Bulletin, Dunn, N.C. 1933-34; Reporter News and Observer, Raleigh, N.C. 1933-37; Associated Press, New York, Washington, Berne, London 1937-43; New York Times 1944-, London SHAEF Headquarters, Paris, Middle East, Germany, U.S.S.R. 1944-55, New York 1955-73, Asst. to Man. Editor 1957-59, Asst. Man. Editor 1959-64, Man. Editor 1964-69, Assoc. Editor 1969-, Washington Corresp. 1973-76; D.Litt. 1970. *Leisure interests:* reading, swimming. *Address:* New York Times, 1920 L Street, N.W., Washington, D.C. 20036, U.S.A.

DANIEL, Glyn Edmund, PH.D., LITT.D.; British archaeologist; b. 23 April 1914, Lampeter Velfrey; s. of late John Daniel and Mary Jane Edmunds; m. Ruth Langhorne 1946; ed. Barry County School, Univ. Coll. of S. Wales (Cardiff), and St. John's Coll., Cambridge; in Cambridge 1932-, except for service in R.A.F. during Second World War (Photo Intelligence: Wing Commdr. in Charge Air Photographic Interpretation, India and S.E. Asia Command); Fellow, St. John's Coll., Cambridge 1938-, Univ. Lecturer in Archaeology 1945-74, Disney Prof. of Archaeology 1974-; Dir. of Studies in Archaeology and Anthropology, St. John's Coll., Cambridge; Dir. Anglia Television Ltd.; Pres. Royal Anthropological Inst. 1977-; Editor Antiquity and Ancient Peoples and Places series 1957-. *Publications:* The Three Ages 1942, A Hundred Years of Archaeology 1950, The Prehistoric Chamber Tombs of England and Wales 1950, The Megalith Builders of Western Europe 1956, The Prehistoric Chamber Tombs of France 1960, New Grange (with S. P. O'Riordain) 1964, Man Discovers his Past 1967, The Origins and Growth of Archaeology 1968, The First Civilisations 1968, Archaeology and the History of Art 1970, Megaliths in History 1973, France before the Romans 1974, A Hundred and Fifty Years of Archaeology 1975, A Hundred and Fifty Years of Archaeology 1976. *Leisure interests:* travelling, walking, writing detective stories. *Address:* St. John's College, Cambridge (Office); The Flying Stag, 70 Bridge Street, Cambridge, England (Home). *Telephone:* 61621 (Office); 56082 (Home).

DANIEL-LESUR, J. Y.; French composer; b. 19 Nov. 1908, Paris; s. of Robert and Alice (née Thiboust) Lesur; m. Simone Lauer 1943; [illegible] s. one d.; ed. Paris Conservatoire; Musical Adviser to Radiodiffusion-Télévision Française; Principal Inst. of Music at Ministry of Cultural Affairs; Admin. de la Réunion des Théâtres Lyriques Nationaux; Insp.-Gen. of Music, Ministry of Cultural Affairs; contrib. to Arts, La Gazette des Lettres, Polyphonie, La Revue Musicale and other publs.; teaches, and writes film music; Dir. hon. Schola Cantorum; mem. Conseil Supérieur de l'Enseignement musical, French Comm. UNESCO; Officier, Légion d'honneur, Commdr. Ordre Nat. du Mérite, Officier Ordre des Arts et des Lettres; Grand Prix du Conseil Général de la Seine, Grand Prix de Paris, Lauréat Acad. des Beaux Arts. *Works include:* Suite

française pour orchestre 1935, Passacaille 1937, Pastorale pour petit orchestre 1938, Ricercare pour orchestre 1939, Quatre lieder pour chant et orchestre 1933-39, Trio d'Anches 1939, Trois poèmes de Cécile Sauvage 1939, Quatuor à cordes 1941, L'enfance de l'art 1942, Variations pour piano et orchestre à cordes 1943, Clair comme le jour 1945, Suite pour trio à cordes et piano 1943, Suite médiévale pour flûte, harpe et trio à cordes 1944, Chansons cambodgiennes 1946, Berceuses à tenir éveillé (chant) 1947, Pastorale variée pour piano 1947, Ballade pour piano 1948, Andrea del Sarto (symphonic poem) 1949, Dix chansons populaires à trois voix égales 1950, Ouverture pour un festival 1951, Chansons françaises à quatre voix mixtes 1951, L'annonciation (cantata) 1952, Cantique des cantiques, pour 12 voix mixtes 1953, Concerto da camera pour piano et orchestre de chambre 1953, Cantique des colonnes pour ensemble vocal féminin et orchestre 1954, Sérénade pour orchestre à cordes 1954, Le bal du destin (ballet), Elégie pour deux guitares 1956, Symphonie de danses 1958, Messe du jubilé pour choeur mixte, orchestre et orgue 1960, Fantasie pour deux pianos, Trois études pour piano 1962, Chanson de mariage pour choeur de voix de femmes 1964, Deux chansons de marins pour choeur d'hommes 1964, Deux chansons de bord pour choeur mixte 1964, Andrea del Sarto (2-act opera) 1968, Contre-fugue pour deux pianos 1970, Symphonie 1974, Nocturne pour hautbois et orchestre à cordes 1974, Intermezzo pour violon et piano, Novelette pour flûte et piano 1977, Marine pour harpe 1978. *Leisure interest:* Racing Club de France. *Address:* 82 Boulevard Flandrin, 75116 Paris, France. *Telephone:* 727-49-86.

DANIELS, John Hancock; American business executive; b. 28 Oct. 1921, St. Paul, Minn.; s. of Thomas L. Daniels and Frances Hancock Daniels; m. Martha Hill Williams 1942; two s. two d.; ed. St. Paul Acad., Phillips Exeter Acad., Yale Univ., and Harvard Univ.; Archer Daniels Midland Co. 1946, Flax Buyer, and Sales Man., Linseed Oil Div., Asst. Vice-Pres. 1955-57, Dir. of Production and Procurement, Dehydrated Alfalfa Div. 1956-57, Vice-Pres., Dir. and Man. Formula Feed Div. 1957-58, Pres. and Chief Exec. Officer 1958-68, Chair. of Bd. 1968-72; Chair. National City Bancorpn. 1972-; Pres. Mulberry Resources Inc. 1972-; Dir. SOO Line Railroad, Nat. City Bank of Minneapolis, Warwick Electronics Inc.; Trustee of Cttee. for Econ. Devt.; mem. Business Council; Dir. Masters of Foxhounds Assn. of America. *Leisure interest:* foxhunting. *Address:* 75 South Fifth Street, Minneapolis, Minn. 55402 (Office); 2472 Parkview Drive, Hamel, Minn. 55340, U.S.A. (Home). *Telephone:* 612-340-3186 (Office).

DANIELSSON, Bengt Emmerik, PH.D.; Swedish anthropologist and writer; b. 6 July 1921, Krokek; m. Marie-Thérèse Sailley 1948; one s.; ed. Univ. of Uppsala, Sweden and Univ. of Washington, Seattle; field research among Jibaro Indians, Upper Amazonas 1946-47, in Tuamotu Archipelago, French Polynesia 1949-51, Australia 1955-56; mem. Kon-Tiki Expedition 1947; Assoc. Anthropologist Bernice P. Bishop Museum Honolulu, 1952-; mem. Pacific Science Bd. expedition to Tuamotu Archipelago 1952; Leader George Vanderbilt expedition to Society Islands 1957, Swedish TV expedition to South Seas 1962; tech. adviser for film Mutiny on the Bounty 1961; Producer series Terry's South Sea Adventures; Swedish Consul French Polynesia 1960-67, 1971-; Dir. Nat. Museum of Ethnography, Stockholm 1967-71. *Publications:* The Happy Island 1951, The Forgotten Islands of the South Seas 1952, Love in the South Seas 1954, Work and Life on Raroia 1955, From Raft to Raft 1959, What Happened on the Bounty 1962, Gauguin in the South Seas 1965, La découverte de la Polynésie 1972, Moruroa, mon amour 1974, Mémorial Polynésien (6 vols.) 1976-80; Children's Books: Terry in the South Seas 1957, Terry in Australia 1958, Terry's Kon-Tiki Adventure 1963. *Address:* Papehue, Paea, Tahiti; Box 558, Papeete. *Telephone:* 82474; 82320.

DANINOS, Pierre; French writer; b. 26 May 1913, Paris; m. 1st Jane Marrain 1942, 2nd Marie-Pierre Dourneau 1968; one s. two d.; ed. Lycée Janson de Sailly; began as journalist 1931; liaison agent to the British Army, Flanders 1940; Columnist for Le Figaro. *Publications:* Les carnets du bon Dieu (Prix Interallié) 1947, Sonia, les autres et moi (Prix Courteline) 1952, Les carnets du Major Thompson 1954, Vacances à tous prix 1958, Un certain Monsieur Blot 1960, Le jacassin 1962, Snobissimo 1964, Le 36e dessous 1966, Le plus que parfait 1970, Le pyjama 1972, Les touristocrates 1974, Made in France 1977. *Leisure interests:* loafing, tennis, collecting British hobbies. *Address:* 81 rue de Grenelle, 75007 Paris, France.

DANNAY, Frederic (co-writer with late Manfred B. Lee under pseudonym **Ellery Queen**); American writer and editor; b. 20 Oct. 1905, Brooklyn, New York; s. of Meyer H. Nathan and Dora Wallerstein; m. Hilda Wiesenthal 1947 (deceased); two s.; ed. Boys High School, Brooklyn; Editor Ellery Queen's Mystery Magazine 1941-; Editor 70 anthologies; Visiting Prof., Univ. of Texas 1958-59; owner of Ellery Queen Collection of First Editions of mystery short stories and Sherlock Holmes in Library of Univ. of Texas; many awards including 5 "Edgars", Grand Master 1960 and Columba Mystery Award, Iona Coll. 1968. *Publications include:* numerous crime and mystery novels (many about Ellery Queen), 7 books of short stories (about Ellery Queen), 3 books of criticism, history and bibliography, 4 novels under pseudonym Barnaby Ross, biographical novel, by Daniel Nathan, The Golden Summer 1953. *Leisure interests:* book and stamp collecting, reading, theatre, television and spectator sports. *Address:* 29 Byron Lane, Larchmont, New York 10538, U.S.A.

DANSON, Hon. Barnett (Barney) Jerome, P.C.; Canadian politician; b. Feb. 1921, Toronto; s. of Joseph B. and Saidie Eleanor Wolfe Danson; m. Isobel Bull 1943; four s.; ed. Public and High Schools, Toronto; served Queen's Own Rifles of Canada 1939-45; joined Joseph B. Danson & Sons Ltd., insurance brokers 1945; Sales Man. Maple Leaf Plastics Ltd. 1950-53; Chair. Danson Corpn. Ltd. 1953; M.P. for York North 1968-79; fmr. mem. Standing Cttee. on Finance, Trade and Econ. Affairs, fmr. Vice-Chair. Standing Cttee. on External Affairs and Nat. Defence; Parl. Sec. to Prime Minister Trudeau 1970-72; Minister of State for Urban Affairs 1974-76; Minister of National Defence Nov. 1976-79; fmr. Pres. UN Conf. on Human Settlements (Habitat) 1976; mem. Canadian NATO Parl. Assn., Canadian Group Inter-Parl. Union; Co-Chair. Canada/U.S. Interparl. Group; Del. to Interparl. Conf. on European Co-operation and Security 1973; fmr. Chair. Soc. of Plastics Industry in Canada; mem. Bd. Soc. of Plastics Industry in New York, Canadian Mfrs. Assn., Canadian Chamber of Commerce; Liberal. *Leisure interests:* fishing, wine, music. *Address:* 1 Bower Avenue, Ottawa, Ont.; Summer: Carling Bay, Nobel, Ont., Canada (Homes).

DANTON, J. Periam, M.A., PH.D.; American professor and librarian; b. 5 July 1908, Palo Alto, California; s. of George Henry and Annina Periam; m. Lois King 1948; one s. one d.; ed. Leipzig, Columbia and Chicago Univs., and Oberlin and Williams Colls.; served in New York Public Library 1928-29; Williams Coll. Library 1929-30, American Library Assn. 1930-33; Librarian and Assoc. Prof. Colby Coll. Library 1935-36, Temple Univ. 1936-46; Del. Int. Fed. of Library Asscns. meetings 1939, 1964, 1966-72; Visiting Prof., Univs. of Chicago 1942 and Columbia 1946; Lt., Lt.-Commdr., U.S.N.R. 1942-45; Prof. Librarianship, Calif. Univ. 1946-76, Dean, School of Librarianship 1946-61, Prof. Emer. 1976-; Pres. Assn. American Library Schools 1949-50; Fulbright Research Scholar (Univ. Göttingen) 1960-61, (Vienna) 1964-65; Guggenheim Fellow 1971-72; U.S. Dept. of State, American Specialist, Ethiopia 1961; Ford Foundation Consultant on Univ. Libraries in Southeast Asia 1963; UNESCO Library Consultant, Jamaica 1968; Surveyor and Consultant, numerous libraries; Dir. U.S. Dept. of State-American Library Assn. Multi-Area Group Librarian Program 1963-64; Guest Lecturer, The Hague 1961, Univ. Toronto 1963, Hebrew Univ. Jerusalem 1965, Univs. Belgrade, Ljubljana and Zagreb 1965, Univ. of British Columbia 1968, McGill Univ. 1969, Univ. Puerto Rico 1970; Hon. Research Fellow, Univ. London 1974-75; Berkeley Citation 1976. *Publications:* Library Literature, 1921-32 1934, Education for Librarianship 1949, United States Influence on Norwegian Librarianship 1890-1940 1957, The Climate of Book Selection: Social Influences on School and Public Libraries 1959, Book Selection and Collections: A Comparison of German and American University Libraries 1963, Jamaica: Library Development 1968, Index to Festschriften in Librarianship 1970, Between M.L.S. and Ph.D.: A Study of Sixth-Year Specialist Programs in Accredited Library Schools 1970, The Dimensions of Comparative Librarianship 1973, Index to Festschriften in Librarianship 1967-75, 1978; mem. Bd. of Editors Assn. of Coll. and Research Libraries Monographs 1966-70, Library Quarterly 1968-, International Library Review 1968-. *Leisure interests:* classical music, tennis, swimming, skiing, travel. *Address:* School of Library and Information Studies, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 642-0924.

DANTZIG, George Bernard, PH.D.; American professor of operations research and computer science; b. 8 Nov. 1914, Portland, Ore.; s. of Tobias and Anna G. Dantzig; m. Anne Shmuner 1936; two s. one d.; ed. Univs. of Maryland, Michigan and California (Berkeley); Statistician, U.S. Bureau of Labor Statistics 1937-39; Chief, Combat Analysis Branch, U.S.A.F. Jr. Statistical Control 1941-46; Mathematical Adviser, U.S.A.F. HQ 1946-52; Research Mathematician, Rand Corpn., Santa Monica, Calif. 1952-60; Chair. Operations Research Center and Prof., Univ. of Calif. (Berkeley) 1960-66; Prof. of Operations Research and Computer Science, Stanford Univ. 1966, C. A. Criley Chair. of Transportation Sciences; Int. Inst. for Applied Systems Analysis, Head of Methodology Project 1973-74; mem. Nat. Acad. of Sciences; Fellow, American

Acad. of Arts and Sciences; Hon. degrees, (Technion, Israel, Linkoping, Sweden, Maryland and Yale); Nat. Medal of Science, U.S.A. 1975. *Publications:* Linear Programming and Extensions 1963, Compact City (with Thomas L. Saaty) 1973; over 100 published technical papers. *Address:* Department of Operations Research, Stanford University, Calif. 94305, U.S.A. *Telephone:* 415-497-1304.

DANTZIG, Rudi Van; Netherlands choreographer; b. 4 Aug. 1933, Amsterdam; s. of Murk van Dantzig and Berendina Homburg; ed. High School and Art Coll.; took ballet lessons with Sonia Gaskell; joined Sonia Gaskell's co. Ballet Recital (later Netherlands Ballet), soloist 1959; won Prix de la Critique (Paris) for choreography in Night Island 1955; artistic dir. and principal choreographer Netherlands Nat. Ballet 1968-; has also worked for London Dance Theatre, Ballet Rambert, The Royal Ballet, Harkness Ballet (New York), Bat-Dor (Tel-Aviv), Ballet d'Anvers (Antwerp), Nat. Ballet of Washington, Royal Danish Ballet, American Ballet Theater, Nat. Ballet of Canada, Ballets of Munich and Cologne; Ridder Oranje-Nassau 1969. *Choreography for:* Night Island 1955, Jungle 1961, Monument for a Dead Boy 1965, Romeo and Juliet 1967, Moments 1968, Epitaaf 1969, Astraal 1969, The Ropes of Time 1970, On Their Way 1970, Painted Birds 1971, Are Friends Delight or Pain 1972, The Unfinished 1973, Orpheus 1974, Ramifications 1974, Blown in a Gentle Wind (with Wade Walthall, for Rudolf Nureyev) 1975, Ginastera 1976. *Publications:* Nureyev, Aspects of the Dancer, articles in Ballet and Modern Dance. *Address:* Emma-Straat 27, Amsterdam, Netherlands. *Telephone:* 79-83-31.

DAPHTARY, Chandra Kisan; Indian lawyer; b. 1 April 1893, Bombay; s. of Kisanlal Daphtary; m. Sushila Chatterjee 1924; one s. two d.; ed. St. Paul's School, London, and Magdalene Coll. Cambridge; Advocate-Gen., Bombay State 1945-51; Solicitor-Gen. of India 1951-63; Attorney-Gen. 1963-68; Chair., Bar Council of India 1963-68; mem. Rajya Sabha. *Address:* A-8 Maharani Bagh, Ring Road, New Delhi 14, India. *Telephone:* 631066.

DARBY, Harry, B.S., M.E.; American industrialist, farmer-stockman; b. 23 Jan. 1895, Kansas City, Kansas; s. of Harry and Florence Isabelle (Smith) Darby; m. Edith Marie Cubbison 1917; four d.; ed. local public schools Kansas, and Univ. of Illinois; with Missouri Boiler Works Co. 1911-17; Shop Supt. 1917, Vice-Pres. 1917-19; with The Darby Corpn. since 1920, Pres. 1923-45, at present Chair. of Bd. and owner; Dir. Commercial Nat. Bank, Kansas Heart Asscn. Inc., Navy League of U.S., Washington D.C., Univ. of Kansas Research Foundation; mem. Advisory Cttee. Nat. Rivers and Harbours Congress, Washington; Chair. State Highway Comm., Kan. 1933-37, Kansas City Post, Soc. of American Mil. Engineers; Fellow, American Soc. of Mechanical Engineers; Chair. Emer. Bd. of Govs., American Royal Livestock and Horse Show; Dir. and mem. several other livestock asscns.; Nat. Conventions 1940, 1944, 1948, 1952, 1956 and 1960; mem. Republican Del. to Republican Nat. Cttee. for Kansas 1940-64, Exec. Cttee. of 15 of Republican Nat. Convention since June 1944; U.S. Senator from Kansas 1949-50; U.S. Army First World War; Chair. Bd. Eisenhower Foundation, Abilene, Kansas; Hon. LL.D. (Kansas and Missouri). *Address:* First and Walker Avenue, Kansas City, Kan. 66110 (Office); 1220 Hoel Parkway, Kansas City, Kan. 66102, U.S.A. *Telephone:* 913-281-0080 (Office); 913-321-2988 (Home).

DARBY, William Jefferson, M.D., PH.D.; American professor of nutrition; b. 6 Nov. 1913, Galloway, Ark.; s. of William J. and Ruth (Douglass) Darby; m. Elva Louise Mayo 1935; three s.; ed. Univs. of Arkansas and Michigan; Asst. Prof., Biochemistry, Vanderbilt Univ. School of Medicine 1944-46, Asst. Prof. Medicine 1944-46, Asst. Prof. Biochemistry and Medicine 1946-48, Prof. Biochemistry, Chair. Dept., Dir. Div. of Nutrition 1949-71, Prof. Medicine in Nutrition 1965-; mem. Council on Foods and Nutrition, American Medical Assn. 1948-62, Chair. 1960-62; WHO expert panel on nutrition, consultant Yugoslavia, Austria, Indonesia, Egypt, Southern Rhodesia, Basutoland, Guatemala and other Cen. American countries 1950-; mem. Cttee. of Consultants Interdepartmental Cttee. on Nutrition for Nat. Defense and Dir. of Surveys in the Philippines, Ethiopia, Ecuador, Lebanon, Jordan and Nigeria 1955-63; Chair. Advisory Cttee. on Nutrition to the Office of the Surgeon Gen., U.S. Army 1959-72; mem. Panel on Nutrition, Space Science Bd., Nat. Acad. of Sciences 1962-72; Nat. Consultant to the Surgeon Gen., U.S. Air Force 1967-72; mem. Scientific Advisory Cttee. the Nutrition Foundation Inc. 1967-71, Pres. 1972-; Public Trustee, Food and Drug Law Inst.; Co-Chair. Hazardous Materials Advisory Cttee., Environmental Protection Agency 1971-; mem. or fmr. mem. of numerous other professional and public bodies; Hon. mem. El Colegio de Guatemala 1950, Austrian Public Health Assn. 1951, Nat. Medical Society of Panama 1951, Philippine Dietetic Assn. 1957, Serbian Acad. of Science 1959; Conrad. A. Elvehjem Award for Public Service in Nutrition, American Inst. of Nutrition 1972, Thomas Jefferson Award, Vanderbilt Univ. 1969; Order of the Cedars of Lebanon 1972, Star of Jordan 1963, Order of Rodolfo Robles, Guatemala 1959; numerous other awards. *Publications:* (with J. S. McLester) Nutrition and Diet in Health and Disease 1952, (with V. N. Patwardhan) The State of Nutrition in the Arab Middle East, numerous other contributions to medical books, numerous articles. *Leisure interests:* bibliophily, history of nutrition. *Address:* Route 2, Box 165 Thompson Station, Tenn. 37170, U.S.A. (Home). *Telephone:* 212-687-4832 (Home); 615-794-6888.

DARIDAN, Jean-Henri; French diplomatist; b. 15 Aug. 1906; ed. Collège de Juilly, Ecole des Chartes and Univ. de Paris à la Sorbonne; entered French Ministry of Foreign Affairs 1932; Third Sec. Rome, Prague 1933-38; war and resistance services 1942-44; Counsellor Chungking 1945-46; Chargé d'affaires Bangkok 1947; Minister-Counsellor Washington 1948-54; Deputy High Commr. French Indochina 1954; Deputy Dir.-Gen. Political and Econ. Affairs, Paris 1955, Dir.-Gen. 1956; Amb. to Japan 1959-62; Diplomatic Adviser to French Govt. 1963-65; Amb. to India 1965-70, concurrently to Nepal 1965-67; Hon. Chair., France-Amérique; two prizes from Académie Française; Commdr., Légion d'honneur, Croix de guerre, Hon. K.B.E. (U.K.). *Publications:* John Law, père de l'inflation 1938, Abraham Lincoln 1962, Noirs et blancs, de Lincoln à Johnson 1965, De la Gaule à de Gaulle, une histoire de France 1977. *Address:* 36 rue Sainte-Croix-de-la-Bretonnerie, 75004 Paris, France.

DARKEN, Lawrence Stamper, PH.D.; American physical chemist; b. 18 Sept. 1909, Brooklyn, N.Y.; s. of William H. Darken and Gertrude Stamper Darken; m. Margaret Fitzgerald 1939; three s. three d.; ed. Hamilton Coll., Clinton, N.Y. and Yale Univ.; Chemist with H. Kohnstamm Co., New York 1934-35; Physical Chemist, U.S. Steel Corpn. 1935-54, Asst. Dir. 1954-56, Asst. Dir. Fundamental Research Lab. 1956-57, Assoc. Dir. 1957-62, Dir. of Fundamental Research 1962-71; Darken Conf., U.S. Steel 1976; Prof. of Mineral Sciences, Pa. State Univ. 1972-; Williams Lecturer, M.I.T. 1956, Howe Lecturer, A.I.M.E. 1961; Campbell Lecture, American Soc. for Metals 1961, Jeffries and Carnegie Lectures 1963, Sauveur Lecture 1968, 20th Hatfield Memorial Lecturer, Sheffield Univ. 1969; mem. Nat. Acad. of Sciences; Distinguished mem. Iron and Steel Soc. of A.I.M.E.; Fellow, New York Acad. of Sciences, American Assn. for Advancement of Science, Metallurgical Soc. of A.I.M.E. and American Inst. of Chemists; Clamer Medal, Franklin Inst. 1966, Hunt Award, A.I.M.E. 1968; American Soc. for Metals Gold Medal 1971. *Publications:* Physical Chemistry of Metals (with R. W. Gurry) 1953; numerous articles in professional journals. *Address:* 248 Deike Building, The Pennsylvania State University, University Park, Pa. 16802, U.S.A. *Telephone:* 814-865-9063.

DARLING, Sir Frank Fraser (*see* Fraser Darling, Sir Frank).

DARLING, Sir James Ralph, Kt., C.M.G., O.B.E., M.A.; Australian (b. British) teacher and administrator; b. 18 June 1899, Tonbridge, Kent; s. of Augustine M. Darling and Jane Baird (née Nimmo); m. Margaret Dunlop Campbell 1935; one s. three d.; ed. Repton School and Oriel Coll., Oxford; served in First World War; Schoolmaster, Liverpool 1921-24, Charterhouse, Godalming 1924-29; Headmaster, Geelong Church of England Grammar School, Australia 1930-61; mem. Commonwealth Universities Comm. 1942-51, Australian Broadcasting Control Bd. 1955-61; Chair. Australian Broadcasting Comm. 1961-67; Hon. Fellow and Past Pres. Australian Coll. of Educ.; Chair. Australian Road Safety Council 1961-71; Chair. Australian Frontier Comm. 1962-71, Pres. 1971-73, Immigration Publicity Council 1962-71; mem. Melbourne Univ. Council 1933-71; Vice-Pres. Australian Elizabethan Theatre Trust 1964, now Pres. *Publications:* The Education of a Civilised Man, Timbertop, etc. *Address:* 3 Myamyn Street, Armadale, Victoria 3143, Australia. *Telephone:* Melbourne 20-6262.

DARLINGTON, Cyril Dean, D.SC., F.R.S.; British scientist; b. 19 Dec. 1903, Chorley, Lancs.; two s. (one deceased) three d.; ed. St. Paul's School and Wye Coll.; Dir., John Innes Inst. 1939-53; Emer. Prof. of Botany, Oxford Univ. 1953-71; Keeper, Oxford Botanic Garden 1953-71; Hon. Fellow of Magdalen Coll.; foreign mem. Royal Danish Acad. and Accad. Nazionale dei Lincei; awarded Royal Medal of Royal Soc. for research in Cytology and Genetics 1946; founder (with Sir Ronald Fisher) of Heredity 1947. *Publications:* Chromosomes and Plant Breeding 1932, Recent Advances in Cytology, 3rd edn. 1965, The Handling of Chromosomes (with L. F. La Cour) 6th edn. 1976, The Conflict of Science and Society 1948, The Dead Hand on Discovery 1949, Elements of Genetics 1949, Genes, Plants and People (with K. Mather) 1950, The Facts of Life 1953, (transl. French, German, Italian, Japanese), Chromosome Botany and the Origins of Cultivated Plants 3rd edn. 1973, Chromosome Atlas of Flowering Plants (with A. P. Wylie) 2nd edn. 1956, Evolution of Genetic Systems 2nd edn. 1958, Darwin's Place

in History 1959, Genetics and Man 1964, Teaching Genetics (co-editor) 1963, Chromosomes Today (co-editor) 1964-72, Evolution of Man and Society 1969 (trans. in seven languages), The Little Universe of Man 1978. *Leisure interest:* gardening. *Address:* Botany School, Oxford, England. *Telephone:* Oxford 53391.

DARMOJUWONO, H.E. Cardinal Justine; Indonesian ecclesiastic; b. 2 Nov. 1914, Godean; ordained Priest 1947; Archbishop of Semarang 1963-; created Cardinal by Pope Paul VI 1967; Chair. Conf. of Indonesian Bishops; Bishop of the Indonesian Armed Forces; mem. of Congregation for Sacraments and Divine Worship; mem. Secr. for Non-Christians; mem. Cen. Cttee., Fed. of Asian Bishops' Confs. *Address:* Jalan Pandanaran 13, Semarang, Java, Indonesia. *Telephone:* Semarang 20348.

DARRIEUX, Danielle; French actress; b. 1 May 1917, Bordeaux; m. 3rd Georges Mitsinkides 1948; one s.; ed. Paris Univ.; First appeared in films 1931; in theatre 1937; Officier, Légion d'honneur. Has played important roles in the following films: Le bal, Mayerling, Un mauvais garçon, Battement de coeur, Premier rendez-vous, Ruy Blas, Le plaisir, Madame de . . . , Le rouge et le noir, Bonnes à tuer, Le salaire du péché, L'amant de Lady Chatterley, Typhon sur Nagasaki, La ronde, Alexander the Great, Marie Octobre, L'homme à femmes, Les lions sont lâchés, Le crime ne paie pas, Le diable et les dix commandements, Le coup de grâce, Patate, Greengage Summer, Les demoiselles de Rochefort, 24 heures de la vie d'une femme, Divine, L'année sainte. Has acted in the following plays: La robe mauve de Valentine 1963, Gillian 1965, Comme un oiseau 1965, Secretissimo 1965, Laurette 1966, CoCo 1970, Ambassador (musical) 1971, Folie douce 1972. *Address:* 2 Villa de la Tour, 75016, Paris, France.

DART, Justin; American business executive; b. 17 Aug. 1907, Evanston, Ill.; ed. Northwestern Univ.; Walgreen Co. 1929-41, Gen. Man. 1939-41, Dir. 1934-41; Rexall Drug Co. (now Dart Industries Inc.) 1941-, Pres. 1946-75, Chair. and Chief Exec. Officer 1966-; Dir. United Air Lines 1942-, Cowles Communications Inc.; Chair. Bd. of Trustees, Univ. of Southern Calif. 1967-71, Vice-Chair. 1972. *Address:* P.O. Box 3157, Terminal Annex, Los Angeles, Calif. 90051, U.S.A.

DART, Raymond Arthur, M.SC., M.D., CH.M.; Australian anatomist; b. 4 Feb. 1893, Toowong, Brisbane, Queensland; s. of Samuel Dart and Eliza Ann Brimblecombe; m. Marjorie Frew 1936; one s. one d.; ed. Queensland and Syndey Univs.; House Surgeon, Royal Prince Alfred Hospital, Sydney 1917-18; Capt. Australian Army Medical Corps 1918-19; Sr. Demonstrator in Anatomy, Univ. Coll., London 1919-20; Fellow, Rockefeller Foundation 1920-21; Sr. Demonstrator in Anatomy and Lecturer in Histology, Univ. Coll., London 1921-22; Prof. of Anatomy 1923-59, Dean Faculty of Medicine 1925-43, Prof. Emer. 1959-, Univ. of the Witwatersrand, Johannesburg; mem. Int. Comm. on Fossil Man 1929-; Fellow Royal Soc. of South Africa 1930-, mem. Council 1938; mem. Bd. South African Inst. for Medical Research 1934-46; mem. South African Medical Council 1934-48; mem. S. African Nursing Council 1944-50; Pres. S. African Soc. of Physiotherapy 1959-68, Anthropological Section, Pan-African Congress of Prehistory 1947-51, Vice-Pres. 1959-63; Pres. S. African Assen. for the Advancement of Science 1952-53, Pres. Anthropological Section 1925, Gold Medallist 1939; Guest Lecturer, Viking Fund Seminar, New York 1949; Lowell Lecturer, Boston Oct. 1949; John Hunter Memorial Lecturer, Sydney 1950; Robert Broom Memorial Lecturer (Durban) 1951; Sr. Capt. Scott Medal, South African Biological Soc. 1955; Hon. D.Sc. (Natal, Witwatersrand and La Salle Univs.); Viking Medal and Award for Physical Anthropology (New York) 1957, Woodward Lecturer (Yale) 1958, Simon Biesheuvel Medal 1963, Pres. Assen. Scientific and Technical Socs. of S. Africa 1963-64; Fellow Inst. Biology, Foreign Fellow Linnaean Soc., London 1974; Drennan Memorial Lecturer (Cape Town) 1966; United Steelworkers Prof. of Anthropology in The Inst. of Man, in The Insts. for the Achievement of Human Potential 1966-; Gold Medal, S. African Nursing Assen. 1970, Silver Medal, Medical Assen. of S. Africa 1972, L. S. B. Leakey Foundation Award 1973, 80 year tribute for Human Evolution Nov. 1973. *Publications include:* Australopithecus Africanus: the Man-Ape of South Africa 1925, Racial Origins in the Bantu speaking Tribes of South Africa 1937, African Serological Patterns and Human Migrations 1951, The Osteodontokeratic Culture of Australopithecus Prometheus 1957, Adventures with the Missing Link 1959, Africa's Place in the Emergence of Civilisation 1960, Beyond Antiquity 1965. *Address:* 20 Eton Park, Sandhurst, Sandton 2196, Tvl. South Africa.

DAS, Sudhi Ranjan, B.A., LL.B.; Indian fmr. judge; b. 1 Oct. 1894, Calcutta; s. of late Rakhal Chandra and Binodini Das; m. Swapana Das 1919; two s. one d.; ed. Tagere's School, Santiniketan, Bangabasi Coll., Calcutta and Univ. Coll., London; called to Bar, Gray's Inn 1918, to Calcutta Bar 1919; Lecturer Univ. Law Coll., Calcutta; Additional Judge, High Court, Calcutta 1942, Puisne Judge 1944; Chief Justice East Punjab High Court (Simla) 1949-50; Judge Fed. Court of India 1950; Judge Supreme Court of India 1950-55; Chief Justice of India 1956-59; Vice-Chancellor, Visva-Baharati Univ. 1959-66; Vice-Pres. Indian Council for Cultural Relations 1964-65; Chair. Statesman Ltd. 1968-; edited Mulla's Transfer of Property Act. *Leisure interests:* reading and writing books. *Address:* Swapanpuri, Kalimpong, West Bengal (Office); 118 Netaji S. C. Bose Road, P.O. Regent Park, Calcutta 40, India (Home). *Telephone:* Calcutta 46-3103.

DAS GUPTA, Bimal; Indian artist; b. 27 Dec. 1917; ed. Krishnalth Collegiate School, Berhampore, W. Bengal, and Govt. Coll. of Arts and Crafts, Calcutta; originally painted landscapes in water colours; is now avant-garde painter in oils; Sr. Lecturer in Painting, Coll. of Art, Delhi 1963-; paintings in Nat. Gallery of Modern Art, New Delhi, Nat. Gallery of Poland, Warsaw, Berlin Museum, Pilnitz Gallery, Dresden, Hermitage Gallery, Leningrad; one-man exhbns. in Delhi, Calcutta, Bombay, Madras, Amritsar, Mysore, Berlin, Poland, London, New York, Cairo, Moscow, Belgrade and Paris; exhibited at São Paulo Bienal, and int. exhbns. in Japan, New York and U.S.S.R. *Address:* E13 Motibag II E Block, New Delhi, India.

DAS GUPTA, Prodosh Kusum, B.A.; Indian sculptor and writer; b. 10 Jan. 1912, Dacca; s. of late Nalini Nath Das Gupta and Charubala Das Gupta; m. T. C. Kamala 1940; two s.; ed. Univ. of Calcutta Govt. Schools of Arts and Crafts, Lucknow and Madras, Royal Acad. of Arts, London and Ecole de Grand Chaumère, Paris; Founder, Calcutta Group (pioneer org. of modern art in India) 1943, Sec. 1943-51; Reader and Head, Dept. of Sculpture, Baroda Univ. 1950; Prof. of Sculpture, Govt. Coll. of Arts and Crafts, Calcutta 1951-57; Dir. Nat. Gallery of Modern Art, New Delhi 1957-70; Pres. Third Congress, Int. Assen. of Arts, Vienna 1960; mem. Indian Artists' Dels. to U.S.A. and U.S.S.R.; represented India in int. sculpture competition The Unknown Political Prisoner, Tate Gallery, London; works in Nat. Gallery of Modern Art, New Delhi, Madras Museum, Acad. of Fine Arts Gallery, Calcutta and in private collections in India and abroad. *Publications:* My Sculpture, Temple Terracottas of Bengal, Fallen Leaves, and numerous articles on art. *Leisure interests:* music, photography, poetry, writing on art. *Address:* 5 Jatin Das Road, Calcutta 29, W. Bengal, India.

DASKALAKIS, Apostolos; Greek university professor; b. 1903, Sparta; s. of Vassilios and Maria Daskalakis; m. Hellen Vranicus 1935; two d.; ed. Athens Univ. and Univ. de Paris à la Sorbonne; began career as journalist 1921; Foreign Corresp. of various Athens newspapers 1927-32; Prof. of Medieval and Modern History, Athens Univ. 1939, of Ancient Greek History 1950-54, and of Modern Greek History 1955; Rector, Athens Univ. 1953-55; Cultural Counsellor, Ministry of Foreign Affairs 1950; Perm. Rep. of Greece to Council of Cultural Co-operation, Council of Europe, 1952-73, Pres. 1965; Hon. Prof. of many European univs. *Publications:* The Causes of the Greek War of Independence 1927, Chypre hellénique à travers quarante siècles d'histoire 1932, History of Modern Greece 1952, The Hellenism of the Ancient Macedonians 1960, La Bataille des Thermopyles 1962, Alexander the Great 1963, Rhigas Velestinlis 1964, Texts and Sources of the History of Greek War of Independence (6 vols.) 1968, The Greek People under the Turkish Empire 1970 and many other books and articles. *Address:* Apostolos Evrou 3, Athens 611, Greece. *Telephone:* 7770151.

DASSAULT, Marcel; French aeronautical engineer; b. 22 Jan. 1892, Paris; m. Madeleine Minckès; two s. (Serge Dassault, *q.v.*); ed. Lycée Condorcet, Paris, and Ecole Nat. Supérieure de l'Aéronautique; responsible for prototypes of numerous civil and mil. aircraft 1918-39; Partner Soc. d'études Marcel Dassault; Eng. Adviser and Tech. Dir. Soc. des avions Marcel Dassault; Dir. Dassault Belgique Aviation 1968-; fmr. Pres. Union syndicale des industries aéronautiques; Editor-in-Chief Jours de France; sole partner Soc. Régie—Jours de France 1967-; Editor Vingt-quatre heures (daily) 1965-66; Partner Soc. immobilière du rond-point des Champs-Elysées 1968-72; Deputy 1951-55, 1958-; Senator 1957-58; Rassemblement pour la République; Daniel Guggenheim Award 1976. *Publication:* Le Talisman 1970. *Address:* Assemblée Nationale, 75007 Paris (Office); Villa Dassault, avenue du Roi-Albert, 06400 Cannes, France (Home).

DASSAULT, Serge; French engineer; b. 4 April 1925, Paris; s. of Marcel Dassault (*q.v.*) and Madeleine Minckès; m. Nicole Raffel 1950; ed. Lycée Janson-de-Sailly, Ecole Polytechnique, Ecole Nat. Supérieure de l'Aéronautique, Centre de Perfectionnement dans l'Administration des Affaires and Inst. des Hautes Etudes de la Défense Nationale; Dir. of Flight Testing, Avions Marcel Dassault 1955-61, Export Dir. 1961-63; Dir.-Gen. Electronique Marcel Dassault 1963-67, Pres. Dir.-Gen. 1967-; Pres. Fondation des Oeuvres Sociales de l'Air, Commissaire Général des Salons Internationaux

de l'Aéronautique et de l'Espace; Pres. Asscn. Française pour la Participation dans les Entreprises; Chevalier, Légion d'honneur; Médaille de l'Aéronautique. *Leisure interests:* golf, hunting. *Address:* 55 quai Carnot, 92214 Saint-Cloud, France. *Telephone:* 602-50-00.

DASSIN, Jules; American film director; b. 12 Dec. 1911; m. 2nd Melina Mercouri (*q.v.*) 1966; ed. Morris High School; Attended drama school in Europe 1936; Asst. Dir. to Alfred Hitchcock 1940; films directed in U.S. include Brute Force 1947, Naked City 1948, Thieves' Highway 1949; settled in France 1954 and directed Rififi (also acted) 1954, Celui qui doit mourir 1956, Never on Sunday (also acted) 1960, Phaedra 1961, Topkapi 1963, 10.30 p.m. Summer 1966, Up Tight 1968, Promise at Dawn 1970, The Rehearsal 1974, A Dream of Passion 1978 etc.; Director's Prize, Cannes Film Festival 1955 for Rififi. *Address:* c/o Alain Bernheim, 16 avenue Hoche, 75008 Paris, France.

DATCU, Ion; Romanian diplomatist; b. 20 Feb. 1930, Brasov; s. of Ion and Maria Datcu; m. Viorica Datcu 1956; ed. history and philosophy; Cultural Attaché, Romanian Embassy, Moscow 1957-59; Press Attaché, Rome 1959-61; Dir., Div. of Int. Orgs. and mem. of the Bd., Min. of Foreign Affairs 1961-66; Del. to UN Gen. Ass. 1961-65; Rep. at confs. of the ILO, Econ. Comm. for Europe and UNESCO; Amb. to Japan 1966-69, also Australia 1967-69; Rep. at sessions of Econ. Comm. for Asia and the Far East, Tokyo 1967, Canberra 1968 and Singapore 1969; Rep. to UN Office and specialized agencies in Geneva, Del. to Cttee. on Disarmament Conf. and Rep. to ILO Governing Body 1969-71; Perm. Rep. to UN 1972-78. *Leisure interests:* theatre, classical music, tennis. *Address:* c/o Ministry of Foreign Affairs, Bucharest, Romania.

DAUBE, David, D.IUR., PH.D., D.C.L., F.B.A.; university professor; b. 8 Feb. 1909, Freiburg-im-Breisgau, Germany; s. of Jakob Daube and Selma Daube (née Ascher); m. 1936, divorced 1964; three s.; ed. Berthold-gymnasium, Freiburg, and Univs. of Freiburg, Göttingen and Cambridge; Fellow of Caius Coll., Cambridge 1938-46; Lecturer in Law, Cambridge 1946-51; Prof. of Jurisprudence, Aberdeen 1951-55; Regius Prof. of Civil Law, Oxford, and Fellow of All Souls Coll. 1955-70, Emer. Regius Prof. 1970; Dir. Robbins Hebraic and Roman Law Collections and Prof.-in-Residence, School of Law, Univ. of Calif., Berkeley 1970-; Senior Fellow, Yale Univ. 1962; Gifford Lecturer, Edinburgh 1962, 1963; Lecturer at Uppsala Univ. 1963; Ford Prof. of Political Science, Univ. of Calif., Berkeley 1964; Riddell Lecturer, Newcastle 1965; Gray Lecturer, Cambridge 1966; Pope John XXIII Lecturer, Catholic Univ. of America, Washington 1966; Messenger Lecturer, Cornell Univ. 1971; Visiting Prof., Univ. of Constance 1966-; Charles Inglis Romson Prof. of Law, Univ. Colorado 1974; Fellow, British Acad., American and World Acad. of Arts and Sciences; Pres. Classical Assen. of G.B. 1976-77; Hon. Fellow, Oxford Univ. Centre for Postgraduate Studies 1973, Gonville and Caius Coll., Cambridge; Corresp. mem. Göttingen and Bavarian Acads. of Sciences, Royal Irish Acad.; Hon. LL.D. (Edinburgh and Leicester); Dr. h.c. (Paris, Sorbonne, Hebrew Union Coll); Dr. Jur. h.c. (Munich) Hon. D.C.L. (Oxford). *Publications:* Studies in Biblical Law 1947, The New Testament and Rabbinic Judaism 1956, Forms of Roman Legislation 1956, The Exodus Pattern in the Bible 1963, The Sudden in the Scriptures 1964, Collaboration with Tyranny in Rabbinic Law 1965, Roman Law 1969, Civil Disobedience in Antiquity 1972, Duty of Procreation 1977, Typologie im Werk des Flavius Josephus 1977, Ancient Jewish Law (with B. S. Jackson). *Address:* School of Law, University of California, Berkeley, Calif. 94720, U.S.A.

DAUBEN, William Garfield, PH.D.; American professor of chemistry; b. 6 Nov. 1919, Columbus, Ohio; s. of H. J. Dauben and Leilah Stump; m. Carol Billings Hyatt 1947; two d.; ed. Ohio State, Harvard and Oxford Univs., and Eidgenössische Technische Hochschule, Zurich; Postdoctoral Fellow, Harvard Univ. 1944; at. Univ. of Calif., Berkeley 1945-, Prof. of Chem. 1958-; Editor-in-Chief Organic Syntheses, Organic Reactions; Consultant to U.S. Public Health Service, Nat. Science Foundation, American Chem. Soc. Petroleum Research Fund 1973-77. Nat. Research Council Office of Chem. and Chemical Tech.; mem. Nat. Acad. of Sciences, Chair., Chem. Section 1977-; American Chem. Soc. American Acad. of Arts and Sciences, Chem. Soc.(London), Swiss Chem. Soc., Nat. Research Council, Ass. of Mathematical and Physical Sciences 1977-. *Publications:* scientific research articles in Journal of the American Chemical Society and Journal of Organic Chemistry. *Leisure interests:* golf, skiing. *Address:* 20 Eagle Hill, Berkeley, Calif. 94707, U.S.A. (Home). *Telephone:* 415-524-2142.

DAULTANA, Mian Mumtaz Muhammad Khan; Pakistani politician; b. 23 Feb. 1916; s. of the late Mian Ahmad Yar Khan Daultana; ed. Punjab Univ. and Corpus Christi Coll., Oxford Univ.; Pres. Indian Majlis, Oxford Univ. 1936-37; called to the Bar 1939; Punjab Legis. Ass., Muslim League Party Rep. 1943, re-elected 1951, Rep. from Sialkot Mohammedan Rural Constituency 1946; Gen.-Sec., Punjab Provincial Muslim League 1944-47; mem. All-India Muslim League Cttee. of Action 1946; mem. Indian Constituent Ass. 1946, and first Pakistan Constituent Ass. 1947; Finance Minister, Punjab 1947; Pres., Punjab Muslim League 1948; Chief Minister of the Punjab 1951-53; Minister for Defence, Central Govt. Oct.-Dec. 1957; Pres. Council Muslim League 1967-72; participated Round Table Conf. ■■ mem. Democratic Action Cttee. 1969; mem. Nat. Assembly 1970; Amb. to the U.K. 1972-78. *Address:* c/o Ministry of Foreign Affairs, Islamabad, Pakistan.

DAUX, Georges; French Hellenist; b. 21 Sept. 1899, Bastia, Corsica; s. of Louis Daux and Célestine Digoy; m. Vida Pirjevec 1926; ed. Univ. of Paris; mem. French Archaeological School, Athens 1920-24; Cultural Counsellor, French Embassy, Istanbul 1924-26; Prof., Dean of the Faculty of Letters and Pres. of Dijon Univ. 1927-45; Prof. of Greek History, Sorbonne and Dir. of French Archaeological School at Athens 1945-69; mem. of Security Council's Comm. of Inquiry in the Balkans 1947; mem. Inst. for Advanced Studies, Princeton 1947-48; visiting Prof. Harvard 1949-50; Sather Prof. Berkeley 1956-57; Geddes-Harrower Prof., Aberdeen 1970; mem. Deutsches Archäologisches Inst., Berlin, Accademia Pontificale, Rome, Yugoslav Acad., Zagreb, Deutsche Akademie der Wissenschaften, Berlin, American Philosophical Soc., Philadelphia, Accademia dei Lincei, Rome, Académie des Inscriptions, Paris, British Acad.; hon. life mem. Soc. for Promotion of Hellenic Studies, London, Archaeological Inst. of America, New York, Société Archéologique, Athens and others; Dr. h.c. (Brussels and Liège). *Leisure interests:* skiing, tennis, zoology. *Address:* 6 avenue Paul Appell, 75014 Paris, France. *Telephone:* Paris 540-4928.

DAVICO, Oskar; Yugoslav poet and novelist; b. 1909; ed. Belgrade Univ.; imprisoned for working with Resistance 1941; escaped and joined partisans 1943; mem. Fed. Cttee. on Film Censorship 1958; recipient of several literary awards. *Publications:* With the Partisans of Markos, Poetry and Resistance, The Poem (novel), A Man's Man (poetic drama), Gedichte 1965. *Address:* c/o Serbian Writers' Association, Belgrade, Yugoslavia.

DAVID, Edward Emil, Jr., SC.D.; American scientist; b. 25 Jan. 1925, Wilmington, N.C.; s. of the late Edward Emil and Beatrice Liebman David; m. Ann Hirshberg 1950; one d.; ed. Georgia Inst. of Tech. and Mass. Inst. of Tech. (M.I.T.); joined Bell Telephone Labs. 1950; specialized in field of underwater sound and communication acoustics 1950-63, in research in computing science 1963-70; Science Adviser to Pres. Nixon and Dir. Office of Science and Tech. (Exec. Office of the Pres.) 1970-73; Exec. Vice-Pres. Gould Inc. 1973-; Pres. Gould Labs. 1973-77, Edward E. David, Inc., Chicago, Ill. 1977-; Chair. Bd. of Trustees, Aerospace Corpn.; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng.; Fellow, American Acad. of Arts and Sciences, Acoustical Soc. of America, Audio Eng. Soc., American Assen. for the Advancement of Science (Pres.) and Inst. of Electrical and Electronics Engineers; hon. degrees, (Stevens Inst. of Tech., Polytechnic Inst. of Brooklyn, Carnegie-Mellon Univ., Univ. of Mich. etc.). *Publications:* Co-author of Man's World of Sound 1958, Waves and the Ear 1960, The Man-made World 1969; over 100 technical articles. *Leisure interests:* tennis, skiing, minerals, photography, travel. *Address:* 1251 Avenue of the Americas, New York, N.Y. 10020, U.S.A. (Office).

DAVID, René, D.JUR., PH.D.; French jurist; b. 12 Jan. 1906, Paris; m. Hélène Labbé 1937, two s. two d.; ed. Univs. of Paris and Cambridge. Prof., Law Faculty, Grenoble Univ. 1929-42, Paris Univ. 1945-70, Aix-en-Provence Univ. 1970-76, European Univ. Inst. Florence 1976-78; Deputy Sec.-Gen. Int. Inst. for the Unification of Private Law (UNIDROIT), Rome 1929-33; Capt. Bataillon de Choc 1943-45; Legal Adviser to Imperial Govt. of Ethiopia 1954-58; Dr. h.c. (Edinburgh, Brussels, Ottawa, Basel); Hon. Bencher Middle Temple; Alciat Prize (Italy), Erasmus Prize (Netherlands). *Publication:* Major Legal Systems in the World Today 1969. *Address:* Le Tholonet, 13100 Aix-en-Provence, France. *Telephone:* (42) 28-90-10.

DAVID, Václav; Czechoslovak politician and diplomatist; b. 23 Sept. 1910, Studený; ed. Commercial Coll., Prague; worked for ČKD Liben 1929-32; mem. of the illegal Cen. Cttee. of the Communist Party of Czechoslovakia 1944-45; mem. of the Nat. Assembly 1945-69; Minister of Foreign Affairs 1953-68; Amb. to Bulgaria 1969-71; mem. of Cen. Cttee. of the CP of Czechoslovakia 1945-; Deputy to House of the People, Fed. Assembly 1969-, Chair. 1971–; mem. Presidium, House of the People, Fed. Assembly 1971-, Deputy Chair. Fed. Assembly 1971-; Deputy Chair. of Cen. Cttee. Czechoslovak-Soviet Friendship Union 1953-72, Chair. 1972; several decorations for part in Resistance Movement during World War II;

Order of the Republic 1955, Klęment Gottwald Order 1960, Order of Victorious February 1973. *Address:* Presidium, Sněmovna Lidu, Federální Shromáždění, Prague, Czechoslovakia.

DAVIDSON, Alfred E.; American international lawyer; b. 11 Nov. 1911; s. of Maurice P. Davidson and Blanche Reinheimer; m. Claire H. Dreyfuss 1934; ed. Horace Mann School, Harvard Univ. and Columbia Law School; Legis. Counsel, Exec. Office of Pres. of U.S.A. 1941-43; Asst. Gen. Counsel, Foreign Econ. Admin. 1944-45, Gen. Counsel 1945-; Gen. Counsel UNRRA 1945-46; Counsel Int. Refugee Org. (Preparatory Comm.), Geneva 1947; Dir. for Europe, Middle East and Africa, UNICEF 1947-51; Econ. Adviser to UN Sec.-Gen. 1951-52; Gen. Counsel Korean Reconstruction Agency, UN, New York 1952-54; Exec. Asst. to Chair. of Bd., Riotinto of Canada, New York 1955-58; int. law practice, including Dir. Channel Tunnel Study Group 1959-69; Int. Econ. Adviser, Co. for Establishment of the Great Belt Bridge (Denmark) 1959-69; Special Rep. of IFC in Europe, Paris 1970-72; Counsel, Wilmer, Cutler & Pickering (law firm) 1972-75; mem. Bars of New York and D.C.; Co-Chair. Bipartisan Cttee. on Absentee Voting, Bipartisan Cttee. for MEDICARE Overseas; Dir. American Assn. for Residents Abroad; Campaign Co-ordinator for Democrats Abroad (France); co-founder, Assn. for the Promotion of Humor in Int. Affairs. *Publications:* articles in journals. *Leisure interests:* politics, reading, tennis, bridge. *Address:* 5 rue de la Manutention, 75016 Paris, France. *Telephone:* 7235168.

DAVIDSON, George F., C.C., PH.D., LL.D., L.H.D., D.C.L.; Canadian public official; b. 18 April 1909, Bass River, Nova Scotia; s. of late Oliver Wendell Davidson and Emma Jane Sullivan; m. 1st Elizabeth Ruth Henderson 1935, two s. one d.; m. 2nd Anneke Irene Kuiper 1975; ed. Univs. of British Columbia and Harvard. Superintendent of Welfare and Neglected Children for B.C. 1934; Exec. Dir. Vancouver Welfare Fed. and Council of Social Agencies 1935; Dir. of Social Welfare, B.C. 1939; Exec. Dir. of Canadian Welfare Council 1942; Deputy Minister of Nat. Welfare 1944-60, of Citizenship and Immigration 1960-63; Dir. Bureau of Govt. Org. 1963, Sec. of Treasury Bd. 1964-67; Pres. Canadian Broadcasting Corpn. 1968-72; Under-Sec.-Gen. of UN for Administration and Man. 1972-; has served since 1946 ■■ Canadian Rep. or mem. Canadian dels. to various sessions of UN Gen. Assembly, Econ. and Social Council and Social Comm. and Chair. of the Social, Humanitarian and Cultural Cttee. 1953; Pres. Inst. of Public Admin. of Canada 1951; Pres. of the UN Econ. and Social Council 1958; Pres. Int. Conf. of Social Work 1956-60; Chair. Nat. Jt. Council of Public Service 1954-60. *Leisure interests:* music, travel, swimming, people. *Address:* United Nations, New York, N.Y. 10017 (Office); 400 East 54th Street, Apt. 24C, New York, N.Y. 10022, U.S.A. (Home). *Telephone:* 754-1234, ext. 5004 (Office); 371-9087 (Home).

DAVIDSON, Sir (Leybourne) Stanley (Patrick), Kt., F.R.S.E., F.R.C.P., F.R.C.P.E., M.D.; British physician; b. 3 March 1894; s. of late Sir L. F. W. Davidson; m. Isabel Margaret Anderson; ed. Cheltenham Coll., Trinity Coll. Cambridge, Edinburgh Univ.; Regius Prof. of Medicine, Aberdeen Univ. 1930-38, Edinburgh Univ. 1938-59, retd.; Sr. Physician, Royal Infirmary, Aberdeen 1932-38; Hon. Physician to H.M. King George VI in Scotland 1947-52, to H.M. Queen Elizabeth II in Scotland 1952-61, an Extra Physician to H.M. in Scotland 1961-; Hon. M.D. (Oslo), Hon. LL.D. (Edinburgh) 1938, (Aberdeen) 1970. *Publications: co-author:* Pernicious Anaemia 1930, A Textbook of Medical Treatment 1963, The Principles and Practice of Medicine 1963, Human Nutrition and Dietetics 1963, articles in medical journals. *Leisure interests:* tennis, golf, fishing, shooting. *Address:* 28 Barnton Gardens, Davidson's Mains, Edinburgh, EH4 6AE, Scotland.

DAVIDSON, Norman Ralph, PH.D.; American professor of chemistry; b. 5 April 1916, Chicago, Ill.; s. of Bernard R. Davidson and Rose Lefstein; m. Annemarie Behrendt 1942; three s. one d.; ed. Univ. of Chicago and Oxford Univ.; Prof. of Chem., Calif. Inst. of Tech. 1967-; mem. Nat. Acad. of Sciences. *Publications:* Statistical Mechanics 1962, and numerous scientific articles. *Address:* Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, Calif. 91125 (Office); 318 East Laurel Avenue, Sierra Madre, Calif. 91024, U.S.A. (Home). *Telephone:* 213-795-6811 (Office); 213-355-1969 (Home).

DAVIDSON, Ralph P.; American magazine publisher; b. 17 Aug. 1927, Santa Fe, N.M.; s. of Clarence and Doris Parsons Davidson; m. Jeanne Skidmore 1951; two s.; ed. Stanford Univ.; European Advertising Dir. Time-Life Int., London 1964; Man. Dir. Time Int., New York 1967; Asst. Publr. Time 1968, Assoc. Publr. 1969, Publr. 1972-; Vice-Pres. Time Inc. 1972-. *Leisure interests:* reading, tennis, skiing. *Address:* Time Inc., Time & Life Building, Rockefeller Center, New York, N.Y. 10020 (Office); 494 Harbor Road, Southport, Conn., U.S.A. (Home). *Telephone:* 212-556-3456 (Office); 203-259-3861 (Home).

DAVIE, Alan, C.B.E.; British painter; b. 1920, Grangemouth, Stirlingshire; s. of James W. Davie and Elizabeth Turnbull; m. Janet Gaul 1947; one d.; ed. Edinburgh Coll. of Art; jazz musician and maker of jewellery; Gregory Fellowship, Leeds Univ. 1956-59; first one-man exhbn. Edinburgh 1946; one-man exhbns. in Europe and U.S.A. 1949-; rep. at Dunn Int. Exhbn., London 1963; Prize for the best foreign painter at his one-man exhbn. at the 7th Bienal de São Paulo, Brazil 1963; Gulbenkian Painting and Sculpture of ■ Decade Exhbn., Tate Gallery, London 1964; several exhbns. at the Salon de Mai; one-man exhbns. at Gimpel Galleries in London, New York and Zürich 1949; exhbns. at Rome, Munich, Montreal, Texas, California 1970, Switzerland, Los Angeles, Norway, Poland, Geneva, Cologne 1971, New York 1972, Los Angeles, Chicago, Brussels 1976, London, Athens, Paris 1977; retrospective exhbn. Edinburgh Festival, R.S.A. Galleries 1972; exhbn. Tapestries, Paris 1977; first public music recital, Tate Gallery and Gimpel Fils, London 1971; three recordings 1972; music concerts 1972, concerts and broadcasts 1974; C.B.E. 1972. *Leisure interests:* gliding, music, photography, underwater swimming. *Address:* The Bottoms, St. Buryan, Penzance, Cornwall, England.

DAVIE, Donald Alfred; British academic and literary critic; b. 17 July 1922; s. of George Clarke and Alice (née Sugden) Davie; m. Doreen John 1945; two s. one d.; ed. Barnsley Holgate Grammar School, St. Catherine's Coll., Cambridge; served with Royal Navy 1941-46; Lecturer, Dublin Univ. 1950-57, Fellow, Trinity Coll., Dublin 1954-57; Visiting Prof., Univ. of Calif. 1957-58; Lecturer, Univ. of Cambridge 1958-64, Fellow of Gonville and Caius Coll., Cambridge 1959-64; Prof. of Literature, Univ. of Essex 1964-68, Pro Vice-Chancellor 1965-68; Prof. of English, Stanford Univ. 1968-74; Clark Lecturer, Trinity Coll., Cambridge 1976; Fellow, American Acad. of Arts and Sciences; Hon. Fellow Trinity Coll., Dublin 1978; Hon. D.Lit. (Southern Calif.) 1978. *Publications:* poetry: Brides of Reason 1955, A Winter Talent 1957, The Forests of Lithuania 1959, A Sequence for Francis Parkman 1961, Events and Wisdoms 1964, Essex Poems 1969, Six Epistles to Eva Hese 1970, Collected Poems 1972, The Shires 1975, In the Stopping Train 1977; literary criticism: Purity of Diction in English Verse 1952, Articulate Energy 1957, The Heyday of Sir Walter Scott 1961, Ezra Pound: Poet as Sculptor 1965, Thomas Hardy and British Poetry 1972, Pound 1976. *Leisure interests:* verse-translation, literary politics, travel. *Address:* 4400 Belmont Park Terrace, 230 Caesar Court, Nashville, Tennessee 37215, U.S.A. *Telephone:* 615 292 8598.

DAVIES, Sir Arthian (*see* Davies, Sir William Arthian).

DAVIES, David Arthur, M.SC., F.INST.P.; British meteorologist; b. 11 Nov. 1913, Barry, Wales; m. Mary Shapland 1938; one s. two d.; ed. Univ. of Wales; Meteorological Office, Air Ministry 1935-39, R.A.F. 1939-47; Principal Scientific Officer, Meteorological Office, Air Ministry 1947-49; Dir. East African Meteorological Dept., Nairobi 1949-55; Pres. WMO Regional Assn. for Africa 1951-55; Sec.-Gen. WMO 1955-; mem. Royal Inst. of Public Admin. 1950-; Hon. mem. American Meteorological Soc. 1970, Hungarian Meteorological Soc. 1975; Dr. h.c. (Univ. of Bucharest) 1970, (Eötvos Loránd Univ., Budapest) 1976, D. ès Sc. (Ecole Polytechnique, Lausanne) 1978; Gold Medal of Merit, Czechoslovak Acad. of Sciences 1978. *Publications include:* meteorological papers and articles on international co-operative efforts through meteorology. *Leisure interests:* music, reading. *Address:* World Meteorological Organization, 41 Avenue Giuseppe Motta, Geneva (Office); Chemin des Rojalets, 1296 Coppet, Vaud, Switzerland (Home). *Telephone:* 34-64-00 (Office); 76-18-26 (Home).

DAVIES, Rev. Jacob Arthur Christian, B.SC.; Sierra Leonean diplomatist; b. 24 May 1925; m.; ed. Univ. of Reading, Selwyn Coll., Cambridge Univ., Imperial Coll. of Tropical Agriculture; served in various capacities at Min. of Agriculture and Natural Resources and later became Perm. Sec.; Co-Man. of ■ project of the UN Devt. Programme, FAO 1967-69, and later apptd. Chair. of the Public Service Comm.; fmr. Amb. to U.S.A.; High Commr. to the U.K. and non-resident Amb. to Denmark, Sweden and Norway 1972-74; Asst. Dir.-Gen. UN Food and Agriculture Org., Rome 1974-75. *Leisure interests:* philately, sports. *Address:* c/o Ministry of Foreign Affairs, Freetown, Sierra Leone.

DAVIES, Percy Richmond, M.B.E., M.R.S.L.; Sierra Leonean lawyer; b. 18 Sept. 1911, Freetown; ed. Govt. Model School, C.M.S. Grammar School, Council of Legal Educ. School of Law, London; Official Admin. 1952-54; part-time Lecturer in Law, Fourah Bay Coll., Univ. of Durham 1953, 1957; Admin., Registrar-Gen. 1954-66; Master, Registrar, Supreme Court of Sierra Leone; Commr. for Oaths 1953; Public Notary 1954; Puisne Judge 1966; Justice of Appeal 1971; Chancellor, Diocese of Sierra Leone and Prov. of West Africa (Anglican Communion) 1969; has served ■■ chair. various

govt. inquiry comms.; Speaker House of Parl. 1973-77. *Address:* 29 Old Railway Line, Brookfields, Freetown, Sierra Leone.

DAVIES, Peter Maxwell, B.MUS.; British composer; b. 8 Sept. 1934, Manchester; s. of Thomas Davies and Hilda Howard; ed. Leigh Grammar School, Royal Manchester Coll. of Music, Manchester Univ.; studied with Goffredo Petrassi 1957; Dir. of Music, Cirencester Grammar School 1959-62; lecture tours in Europe, Australia and New Zealand 1965; Composer in Residence Univ. of Adelaide 1966; Dir. Pierrot Players 1967-70, Fires of London 1970–; Olivetti Prize 1959; Koussevitsky Award 1964, Koussevitsky Recording Award 1966. *Compositions include:* St. Michael sonata for 13 wind instruments 1957, Prolation for orchestra 1958, O Magnum Mysterium for chorus, instruments and organ 1960, String Quartet 1961, Leopardi Fragments for soprano, contralto and chamber ensemble 1961, First Fantasia on John Taverner's In Nomine 1962, Veni Sancte Spiritus for chorus and orchestra 1963, Seven In Nomine 1963-65, Second Fantasia on John Taverner's In Nomine 1964, Shepherd's Calendar for young singers and instrumentalists 1965, Revelation and Fall for soprano and instrumental ensemble 1965, Ecce Manus Tradentis for mixed chorus and instruments 1965, Antechrist for chamber ensemble 1967, L'homme armé 1968, revised 1971, Stedman Caters for instruments 1968, St. Thomas Wake-Foxtrot for orchestra 1969, Worldes Blis 1969, Vesalii Icones 1969, Eram quasi Agnus (instrumental motet) 1969, Eight Songs for Mad King 1969, Points and Dances from Taverner 1970, From Stone to Thorn for mezzo-soprano and instrumental ensemble 1971, Taverner (opera) 1972, Blind Man's Buff (masque) 1972, Hymn to Saint Magnus for chamber ensemble and soprano 1972, Stone Litany for mezzo-soprano and orchestra 1973, Miss Donnithorne's Maggot for mezzo-soprano and chamber ensemble 1974; Ave Maris Stella for chamber ensemble 1975; Three Studies for Percussion 1975, Five Klee Pictures for percussion, piano and strings, revised 1976, Stevie's Ferry to Joy (beginner's piano solo) 1976, Three Preludes for Organ 1976, Kinloche His Fantassie (Kinloch/Davies) 1976, Anakreontika (Greek songs for mezzo-soprano) 1976, The Blind Fiddler for soprano and chamber ensemble 1976, orchestral Symphony 1976, The Martyrdom of St. Magnus (chamber opera) 1976, Westerlings (unaccompanied part songs) 1977, A Mirror of Whitening Light for chamber orchestra 1977, Le Jongleur de Notre Dame (Masque) 1978, The Two Fiddlers 1978; has written music for films: The Devils, The Boyfriend, and many piano pieces, works for choir, instrumental works and realisations of fifteenth and sixteenth century composers. *Address:* c/o Judy Arnold, 50 Hogarth Road, London, S.W.5, England.

DAVIES, Richard Townsend, A.B.; American diplomatist; b. 28 May 1920, Brooklyn, New York; s. of late John W. A. Davies and of Laura (née Townsend) Davies; m. Jean Stevens 1949; four s.; ed. Columbia Univ., Ohio State Univ., Middlebury Coll., Vt.; diplomatic posts in Warsaw and Moscow 1947-53; Political Officer, Int. Staff, NATO 1953-55; Second Sec., American Embassy, Kabul 1955-58; Public Affairs Adviser, Office of E. European Affairs, Dept. of State 1958-59, Office of Soviet Union Affairs 1959-61; First Sec., American Embassy, Moscow 1961-62, Political Counsellor 1962-63; Fellow Foreign Service Inst. 1963-64; Deputy Exec. Sec., Dept. of State 1964; Asst. Dir. for U.S.S.R. and E. Europe, U.S. Information Agency 1965-68; Consul-Gen. Calcutta 1968-69; mem. Planning and Co-ordination Staff, Dept. of State 1969-70, Deputy Asst. Sec. of State for European Affairs 1970-72; Amb. to Poland 1972-78. *Leisure interests:* reading, tennis, paddle tennis. *Address:* c/o Department of State, 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

DAVIES, Robertson, C.C., B.LITT., F.R.S.C.; Canadian writer and professor of English; b. 28 Aug. 1913, Thamesville, Ont.; s. of William Rupert Davies and Florence Sheppard Davies (née Mackay); m. Brenda Mathews 1940; three d.; ed. Renfrew and Kingston Schools, Upper Canada Coll., Toronto, Queen's Univ., Kingston, Ont., Balliol Coll., Oxford; teacher and actor, Old Vic Co., London 1938-40; Literary Editor Saturday Night, Toronto 1940-42; Editor and Publisher Examiner, Peterborough, Ont. 1942-63; Prof. of English, Trinity Coll., Univ. of Toronto 1960-, and Master of Massey Coll., Univ. of Toronto 1963-; Hon. LL.D. (Alberta) 1957, (Queen's Univ.) 1962, (Manitoba) 1972; Hon. D. Litt. (McMaster) 1959, (Windsor) 1971, (York Univ., Toronto, Mount Allison) 1973, (Memorial Univ. of Newfoundland, Univ. of W. Ontario, McGill, Trent) 1974, Hon. D.C.L. (Bishop's Univ., Que.) 1967; Hon. D. Univ. (Calgary) 1975; Louis Jouvet Prize, Stephen Leacock Medal for Humour 1955, Lorne Pierce Medal of Royal Soc. of Canada 1961, Gov.-Gen.'s Award for Fiction 1973. *Publications:* studies: Shakespeare's Boy Actors 1939, Stephen Leacock 1970, Feast of Stephen 1970; literary criticism: A Voice from the Attic 1960; history: (co-author) The Revels History of Drama in English Vol. VI 1975; text book: Shakespeare for Young Players 1942; essays: The Diary of Samuel Marchbanks 1947, The Table Talk of Samuel Marchbanks 1949, Samuel Marchbanks' Almanack 1967, One Half of Robertson Davies 1977; co-author (with Sir Tyrone Guthrie): Renown at Stratford 1953, Twice Have the Trumpets Sounded 1954, Thrice the Brinded Cat Hath Mew'd 1955; plays: Eros at Breakfast and Other Plays 1949, Fortune My Foe 1949, At My Heart's Core 1950, A Masque of Aesop 1952, A Jig for the Gypsy 1954, A Masque for Mr. Punch 1963, Hunting Stuart and Other Plays 1972, Question Time 1975; novels: Tempest Tost 1951, Leaven of Malice 1954, A Mixture of Frailties 1958, Fifth Business 1970, The Manticore 1972, World of Wonders 1975. *Leisure interests:* music, theatre. *Address:* Master's Lodging, Massey College, University of Toronto, 4 Devonshire Place, Toronto, Ont. M5S 2EI, Canada. *Telephone:* (416) 978-2891 (Office); (416) 979-2664 (Home).

DAVIES, Ryland; British (Welsh) opera and concert singer (tenor); b. 9 Feb. 1943, Cwm Ebbw Vale, Monmouthshire (now Gwent); s. of Joan and Gethin Davies; m. Anne Howells (q.v.) 1966; ed. Royal Manchester Coll. of Music; début as Almaviva in The Barber of Seville, Welsh Nat. Opera 1964, subsequent appearances including Tamino in The Magic Flute 1965; Glyndebourne Festival Chorus 1964-66, taking parts including Belmonte in The Abduction from the Seraglio, Ferrando in Così fan tutte, Flamand in Capriccio; appearances with Scottish Opera as Ferrando, with Sadler's Wells Opera as Almaviva, Essex in Britten's Gloriana, with Royal Opera as Hylas in The Trojans, Don Ottavio in Don Giovanni, Ferrando, Cassio in Otello, Ernesto in Don Pasquale, Lysander in A Midsummer Night's Dream, and Almaviva; overseas appearances include parts at Salzburg Festival as Cassio, at San Francisco, Chicago and Paris as Ferrando, at Metropolitan Opera, New York, as Ferrando and Almaviva 1975, Hollywood Bowl, Paris Opera, Geneva, Brussels and Vienna; concert works in U.K. include Messiah, Saul, Beethoven's 9th Symphony, Christ on the Mount of Olives, Verdi's Requiem, The Dream of Gerontius, St. Ludmila (Dvořák), in U.S.A. include Messiah, Die Fledermaus. *Recordings include:* The Abduction from the Seraglio, The Trojans, Saul, Così fan tutte, Thérèse, Monteverdi Madrigals, Idomeneo, The Seasons (Haydn), Messiah, L'Oracolo-Leone, Judas Maccabaeus. *Leisure interests:* antiques, art, cinema, sport. *Address:* Milestone, Broom Close, Esher, Surrey, England.

DAVIES, Rt. Hon. Sir (William) Arthian, Kt., P.C., D.L., M.A.; British judge (retd.); b. 10 May 1901, London; s. of Arthian and Claudia Davies; m. Mary Bailey Liptrot 1933; d.; ed. Dulwich Coll., and Trinity Coll., Oxford; called to the Bar (Inner Temple) 1925; Jr. Counsel to Ministry of Labour and Nat. Service 1934-47; Recorder of Merthyr Tydfil 1946-49; K.C. 1947; Recorder of Chester 1949-52; J.P. (Buckinghamshire) 1948; Deputy Chair. Quarter Sessions 1951-61, Chair. 1961-71; Deputy Chair. Cardiganshire Quarter Sessions 1949-52; Judge, High Court of Justice 1952-61; Deputy Chair. Parl. Boundary Comm. for Wales 1959-61; Lord Justice of Appeal 1961-74; Privy Councillor 1961; Hon. Fellow Trinity Coll., Oxford 1969. *Publication:* The Arbitration Acts 1934. *Address:* Ballinger Lodge, Great Missenden, Bucks., England.

DAVIGNON, Viscount Etienne, LL.D.; Belgian diplomatist; b. 4 Oct. 1932, Budapest, Hungary; m. Françoise de Cumont 1959; s. two d.; Head of Office of Minister of Foreign Affairs 1963, Political Dir. 1969-76; Chair. Gov. Bd., Int. Energy Agency 1974-76; Commr. for Industry and Int. Markets, Comm. of European Communities 1977-. *Leisure interests:* golf, skiing, tennis. *Address:* Commission of The European Communities, 200 rue de la Loi, 1040 Brussels; 12 avenue des Fleurs, Brussels, Belgium.

DAVIS, Artemus Darius; American business executive; b. 22 Nov. 1905, Henderson, Ark.; s. of William M. and Ethel Chase Davis; m. Pauline K. McCormick 1970; two s. (by previous marriage); ed. Univ. of Idaho; Man. Table Supply Store, Little River, Fla. 1925-29, Vice-Pres. Table Supply Stores Inc. 1929-34, Pres. 1934-39; Pres. and Dir. Winn-Dixie Stores Inc., Jacksonville, Fla. 1939-65, Chair. Exec. Cttee. 1954-70, Vice-Chair. of Bd. 1965-. *Leisure interests:* hunting, ranching. *Address:* 5050 Edgewood Court, Jacksonville, Fla., U.S.A. *Telephone:* 904-384-5511.

DAVIS, Arthur John; British banker; b. 28 July 1924, Farnham; m. Jean Elizabeth Edna Hobbs; s. one d.; ed. grammar school; Man. Lloyds Bank Ltd., Leicester 1968; Asst. Gen. Man. 1970, Joint Gen. Man. 1973, Asst. Chief Gen. Man. 1973, mem. Bd. of Dirs. Jan. 1977-, Deputy Chief Gen. Man. 1977, Chief Gen. Man. May 1978-. *Leisure interests:* beagling, gardening, music. *Address:* Lloyds Bank Ltd., 71 Lombard Street, London, E.C.3 (Office); Church Farm House, Aldbury, Tring, Herts., England (Home). *Telephone:* 01-626 1500 (Office); Aldbury Common 321 (Home).

DAVIS, Bernard D(avid), A.B., M.D.; American professor microbiology; b. 7 Jan. 1916, Franklin, Mass.; s. of Harry and Tillie

Davis; m. Elizabeth Menzel 1955; two s. one d.; ed. Harvard Univ. and Harvard Medical School; at Johns Hopkins Hosp. 1940-41; with U.S. Public Health Service 1942-54; Prof. of Pharmacology, New York Univ. Medical School 1954-57; Prof. of Bacteriology and Immunology, Harvard Medical School 1957-68; Adele Lehman Prof. of Bacterial Physiology, Harvard Medical School 1968-; mem. N.A.S., American Acad. of Arts and Sciences, World Acad. of Art and Science, American Soc. Biological Chem., American Soc. Microbiology, Inst. of Medicine, Soc. Gen. Physiology, Soc. Study Social Biology. *Publications:* Microbiology (co-author) 1967 and numerous articles on science, and on science and society. *Leisure interest:* piano. *Address:* Harvard Medical School, Boston, Mass. 02115 (Office); 23 Clairemont Road, Belmont, Mass. 02178, U.S.A. (Home). *Telephone:* 617-732-2022 (Office); 617-IV4-0460 (Home).

DAVIS, Bette (Ruth Elizabeth); American actress; b. 5 April 1908, Lowell, Mass.; d. of Harlow M. and Ruth F. Davis; m. 1st Harmon O. Nelson 1932 (dissolved); m. 2nd Arthur Farnsworth 1940 (died 1943); m. 3rd William G. Sherry 1945 (dissolved), one d.; m. 4th Gary Merrill 1950 (dissolved), one s. one d.; ed. Cushing Acad., Ashburnham, Mass.; Motion Picture Acad. Award as best actress of year, in Dangerous 1935, Jezebel 1938; received American Film Insts. Life Achievement in Motion Pictures Award 1977. *Films acted in include:* Of Human Bondage, Bordertown, Dangerous, The Petrified Forest, Jezebel, Dark Victory, Juarez, The Old Maid, The Private Lives of Elizabeth and Essex, The Great Lie, The Bride Came C.O.D., All About Eve, Payment on Demand, Phone Call from a Stranger, The Star, The Virgin Queen, Storm Center, The Catered Affair, John Paul Jones, The Scapegoat, What Ever Happened to Baby Jane, Hush . . . Hush, Sweet Charlotte, The Nanny, The Anniversary, Connecting Rooms, Bunny O'Hare, Madam Sin, The Game, Miss Moffatt (musical) 1974, Death on the Nile 1978. *Publication:* The Lonely Life (autobiography) 1962. *Address:* c/o Gottlieb Schiff Ticktin Fabricant & Sternklar, P.C., 555 Fifth Avenue, New York, N.Y. 10017, U.S.A. *Telephone:* 212-MU2-4717.

DAVIS, Colin Rex, C.B.E.; British musician; b. 25 Sept. 1927, Weybridge, Surrey; m. 1st April Cantelo 1949 (dissolved 1964), one s. one d.; m. 2nd Ashraf Naini 1964, two s.; ed. Christ's Hospital and Royal Coll. of Music; Asst. Conductor, BBC Scottish Orchestra 1957-59; Conductor, Sadler's Wells Opera House 1960, Musical Dir. 1961-65; Chief Conductor, BBC Symphony Orchestra 1967-71, Chief Guest Conductor 1971-75; Musical Dir. Covent Garden Sept. 1971-; Principal Guest Conductor, Boston Symphony Orchestra 1972-. *Leisure interests:* reading, cooking, gardening. *Address:* c/o Pears-Phipps Management, 8 Halliford Street, London, N1 3HE, England (Office).

DAVIS, Deane Chandler; American lawyer and politician; b. 7 Nov. 1900; ed. Boston Univ.; practised law, Barre, Vt. 1922-31, 1936-40; City Attorney Barre 1924-26, 1928-30; State Attorney, Washington County, Vt. 1926-28; Superior Judge, State of Vt. 1931-36; with law firm, Barre, Vt., and Chelsea, Vt. 1936-40; Gen. Counsel, Nat. Life Insurance Co. 1940-50, Vice-Pres. 1943-50, Pres. 1950-66, Chair. Bd. 1967-68; Gov. of Vermont 1969-73; Pres., Man. Dir. Co-operative Health and Information Center, Vermont 1973–; Republican. *Address:* 5 Dyer Avenue, RD1, Montpelier, Vt., U.S.A.

DAVIS, Jacob E.; American business executive; b. 31 Oct. 1905; ed. Ohio State Univ., and Harvard Univ.; admitted to Ohio Bar 1930; legal practice 1930-37; with Ohio Gen. Ass. 1935-37; Judge, Court of Common Pleas, Pike County, Ohio 1937-40; mem. U.S. House of Reps. 1941-43; Special Asst. Sec. Navy, Asst. Gen. Counsel, Navy Dept. 1943-44; Vice-Pres. Kroger Co. 1945, Dir. 1949-, Exec. Vice-Pres. 1961-62, Pres. 1962-70; Dir. Anchor Hocking Corpn., Cincinnati Milacron Inc., Ohio Nat. Life Insurance Co. 1970-, Dir. Overhead Door Corpn. 1973-. *Address:* 5685 Kugler Mill Road, Cincinnati, Ohio, U.S.A.

DAVIS, Jerome, PH.D.; American sociologist; b. 2 Dec. 1891, Kyoto, Japan; s. of Jerome and Frances Davis; m. Mildred Rood 1920; s. one d.; ed. Oberlin Coll., Union Theological Seminary and Columbia Univ.; Lecturer, extension courses, New York 1914; Sec. to Sir Wilfred Grenfell, Labrador 1915; Russian war work 1916-18; Asst. Prof. of Sociology, Dartmouth Coll. 1921-24; Gilbert L. Stark Prof. of Practical Philanthropy, Yale Univ. 1924-37; mem. Bd. of Trustees, Oberlin Coll.; Dir. Promoting Enduring Peace Inc.; Pres. American Fed. of Teachers 1936-39, Eastern Sociological Soc. 1936, 1937; Chair. Conn. Legis. Comm. on Jails 1931-39; Dir. of work in P.O.W. camps for all Canada for World's Cttee., Y.M.C.A. 1940-43; made survey on Arab-Israel situation 1953; Visiting Prof. Univ. of Colorado 1950, Fisk Univ. 1954, Japanese Univs. 1955, 1965; Hon. D.D. (Oberlin), LL.D. (Hillsdale Coll.), D.Litt. (Fla. Southern); directed American-European Seminars to Russia and other European countries 1957, 1959-64, 1966, 1968, 1969, Around the World Seminar 1967; directed Seminar to Moscow 1970, to Eastern European countries 1971, 1972, 1973, to China and to Europe and England 1974; Winner of the Gandhi Peace Award 1967. *Publications:* The Russians and Ruthenians in America 1921, The Russian Immigrant 1922, Christian Fellowship among the Nations (with R. B. Chamberlin) 1925, Adventuring in World Co-operation 1925, Business and the Church 1926, Introduction to Sociology (with H. E. Barnes) 1927, Readings in Sociology, Christianity and Social Adventuring 1927, Labor Speaks for Itself on Religion 1929, Contemporary Social Movements 1930, The New Russia 1933, The Jail Population of Connecticut, Capitalism and its Culture 1935, Labor Problems in America (with E. Stein) 1940, Behind Soviet Power 1946, Character Assassination 1951, Peace, War and You 1952, Religion in Action 1955, On the Brink 1959, Citizens of One World 1961, World Leaders I Have Known 1963, Disarmament—a World View 1964, A Life Adventure for Peace 1967, Peace or World War III 1968. *Leisure interests:* lecturing, tennis, horse shoes, shuffle board. *Address:* Friends House, Sandy Spring, Md. 20860, U.S.A. *Telephone:* 301-774-4609.

DAVIS, Sir John Henry, Kt., F.C.I.S.; British industrialist; b. 10 Nov. 1906, London; s. of Sydney Myering Davis and Emily Harris; m. Felicity Rutland 1976; one s. two d. by earlier marriages; ed. City of London School, Chair. Rank Org. Ltd. 1962-77, Pres. 1977–; Chief Exec. 1962-74; Joint Pres. Rank Xerox Ltd. 1972-; Chair. Children's Film Foundation Ltd.; Dir. Eagle Star Insurance Co. Ltd.; fmr. Gov. British Film Inst.; fmr. Pres. Advertising Assn.; Hon. D.Tech. (Loughborough) 1975; Commdr., Ordre de la Cou- 1974. *Leisure interests:* farming, gardening, reading, travel, music. *Address:* 38 South Street, London, W1A 4QU (Office); The Mill House, Ide Hill Road, Four Elms, Edenbridge, Kent, England (Home). *Telephone:* 01-629 7454 (Office).

DAVIS, Kingsley, PH.D.; American sociologist; b. 20 Aug. 1908; ed. Univ. of Texas and Harvard Univ.; Instructor in Sociology, Smith Coll., 1934-36; Asst. Prof. Clark Univ. 1936-37; Assoc. Prof. Pennsylvania State Univ. 1937-42, Prof. 1942-44, Head, Sociology Div. 1937-42; Research Assoc. Office of Population Research, Princeton Univ. 1942-48; Assoc. Prof. Princeton 1944-48; Prof. of Sociology, Graduate Faculty of Political Science, Columbia 1948-55; Assoc. Dir. Bureau of Applied Social Research 1948-49, Dir. 1949-52; Prof. of Sociology, Univ. of Calif. at Berkeley 1955-; fmr. Pres. American Sociological Assn., Population Assn. of America. *Publications:* Modern American Society (with Bredemeier and Levy) 1949, Human Society 1949, The Population of India and Pakistan 1951, World's Metropolitan Areas (with others) 1959, World Urbanization, Vol. I 1969, Vol. II 1972. *Address:* 7 Selbourne Drive, Piedmont, Calif. 94611, U.S.A.

DAVIS, Miles Dewey; American jazz trumpet player and composer; b. 25 May 1926, Alton, Ill.; ed. Juilliard School; first played in High School band; performed with Eddie Randall, St. Louis 1941-43, with Charlie Parker, Coleman Hawkins, and on tour with Eckstine's Band 1945-48; leader bands Royal Roost; appeared Paris Jazz Festival 1949, New York 1950, 1951; on tour with Jazz Inc. 1952; appeared Café Bohemia, New York 1957; background music for Elevator to the Gallows (French film) 1958; JAY award poll (No. 4 jazz album Miles Smiles) 1967; named No. 1 Trumpeter, No. 2 J Man of Year, No. 1 Small Group, No. 2 Jazz album (Miles Smiles) (3rd annual readers' poll) 1968; named No. 1 Combo, No. 1 Trumpet, No. 2 Record of Year (Sorcerer), 16th Int. Jazz Critics Poll 1968. *Recordings include:* Modern Idiom, Trumpet Stylists, Cool and Quintet, Miles Ahead, Miles Davis Plus 19, Relaxin', Walkin', Cookin', Bags' Groove, Collector's Items, Birth of the Cool, Round About Midnight, Sorcerer, Bitches' Brew, At Fillmore. *Address:* c/o Neil C. Reshen, 50 West 57th Street, Suite 1200, New York, N.Y. 10019, U.S.A.

DAVIS, Nathanael Vining; Canadian businessman; b. 26 June 1915, Pittsburgh, Pennsylvania; s. of late Edward Kirk and Rhea (Reineman) Davis; m. Lois Howard Thompson 1941; one s. one d.; ed. Harvard Univ., London School of Econs.; joined Alcan Group 1939; Pres. and Dir. Alcan Aluminium Ltd. 1947-72, Chair. Chief Exec. Officer and Dir. 1972-; Dir. Aluminum Co. of Canada Ltd. and other subsidiaries in the Alcan Group, Bank of Montreal and Canada Life Assurance Co.; Gov. The Canadian Assn. for Latin America. *Address:* Box 6090, Montreal, Quebec, Canada H3C 3H2. *Telephone:* 514/877-2340.

DAVIS, Nathaniel, PH.D.; American diplomatist; b. 12 April 1925, Boston, Mass.; s. of Harvey Nathaniel Davis and Alice Marion Rohde; m. Elizabeth Kirkbride Creese 1956; two s. two d.; ed. Phillips Exeter Acad., Brown Univ., Fletcher School of Law and Diplomacy, Cornell Univ., Middlebury Coll., Columbia Univ., Univ. Central de Venezuela; Asst. in History, Tufts Univ. 1947; Lecturer in History, Howard Univ. 1962-65, 1966-68; Third Sec., U.S. Embassy, Prague 1947-49; Vice-Consul, Florence 1949-52; Second

Sec., Rome 1952-53, Moscow 1954-56; Deputy Officer-in-Charge, Soviet Affairs, Dept. of State 1956-60; First Sec., Caracas 1960-62; Special Asst. to Dir. of Peace Corps 1962-63, Deputy Assoc. Dir. 1963-65; Minister to Bulgaria 1965-66; Senior Staff, Nat. Security Council, White House 1966-68; Amb. to Guatemala 1968-71, to Chile 1971-73; Dir.-Gen. U.S. Foreign Service 1973-75; Asst. Sec. of State for African Affairs April-Dec. 1975; Amb. to Switzerland 1975-77; State Dept. Adviser, Nat. War Coll. 1977-; Hon. LL.D. (Brown Univ.) 1970; Hartshorn Premium 1942, Caesar Misch Premium 1942; Cinco Aguilas Blancas Alpinism Award 1962. *Leisure interests:* skiing, mountain climbing, white water canoeing, water-colour painting. *Address:* Department of State, 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

DAVIS, Owen Lennox, B.A., LL.B., O.B.E.; Australian diplomatist; b. 12 April 1912, Sydney; s. of late Henry Davis; m. Alison Mary Nicholas 1940; ed. King's School, Sydney and Sydney Univ.; Barrister-at-Law 1938-40; Australian Forces (Capt.) 1940-45; joined Australian Dept. of External Affairs 1946; First Sec., Washington 1948-51, Karachi 1952-53; Acting High Commr., Wellington, N.Z. 1954-55; Sr. External Affairs Rep. London 1957-59; High Commr. to S. Africa 1959-61, Amb. 1961-62, to Brazil 1962-64; Asst. Sec. Ministry of External Affairs 1965-66, First Asst. Sec. 1967-69; Amb. to Belgium and EEC 1969-72, and Luxembourg 1970-72; Amb. to Mexico 1972-74; Perm. Rep. to the UN Office at Geneva 1974-77; Australian Rep., UN Human Rights Comm. 1978-(80). *Leisure interests:* history, tennis, golf. *Address:* Lot 154, Campo Mijas, Apartado 32, Fuengirula, Malaga, Spain. *Telephone:* 47-10-78.

DAVIS, Sammy, Jr.; American singer and entertainer; b. 12 Dec. 1925, New York; s. of Sammy and Elvina (née Sanchez) Davis; m. 1st Loray White 1958 (divorced 1959); m. 2nd May Britt 1961 (divorced 1967); two s. one d.; m. 3rd Altovise Gore 1970; made stage début at age one in parents' vaudeville act; performed with father and uncle as Will Marstin Trio; Theatre includes On Broadway, Charlie Welch in Mr. Wonderful 1956; Joe Wellington in Golden Boy 1964; appeared at the Palladium in London 1968; one man show at the Uris Theater, New York 1974, Stop the World, I Want to Get Off, New York 1978; *Films include* The Benny Goodman Story 1956, Anna Lucasta 1958, Porgy and Bess 1959, Ocean's 11 1960, Pepe 1960, Johnny Cool 1963, Robin and the Seven Hoods 1964, Threepenny Opera 1965, Salt and Pepper 1968, Sweet Charity 1968, One More Time 1970, Save the Children 1973; *television includes* Poor Devil (series) 1973, NBC Follies 1973; Sammy and Company 1975, GE Presents Sammy Davis Jr. 1977; also various guest appearances on many US series. *Publication:* Yes I Can (autobiography) 1965. *Address:* c/o SyniCorp, 8335 Sunset Boulevard, Calif. 90069, U.S.A.

DAVIS, Shelby Cullom; American diplomatist; b. 1 April 1909; ed. Princeton and Columbia Univs., and Univ. of Geneva; Man. Partner, Shelby Cullom Davis & Co. 1947-; mem. N.Y. Stock Exchange 1941-; Econ. Adviser to T. E. Dewey Presidential Campaigns 1940, 1944; Amb. to Switzerland 1969-74. *Address:* c/o State Department, Washington, D.C., U.S.A.

DAVIS, Thomas Robert Alexander Harries, M.D.; Cook Islands politician, b. 1917, Ruatonga, Rarotonga; ed. Otago Univ. and Medical School, Univ. of Sydney, Harvard School of Public Health; Medical Officer and Surgeon Specialist, Cook Islands Medical Service 1945-48; Research mem. Dept. of Nutrition, Harvard School of Public Health 1952; Head of Dept. of Environmental Medicine, Arctic Aero-medical Laboratory, Fairbanks, Alaska 1955-56; U.S. Army Medical Research Laboratory, Fort Knox, Ky. 1956-61; Dir. of Research, U.S. Army Research Inst. of Environmental Medicine 1961-63; employed by Arthur D. Littlem Inc. 1963-71; returned to Cook Islands 1971, formed Democratic Party; also in medical practice in Rarotonga; Premier of Cook Islands July 1978–; Fellow, Royal Soc. of Tropical Medicine and Hygiene; mem. Royal Soc. of Medicine; Pres. Medical and Dental Assen. *Publications:* two books and over eighty other publications. *Address:* Office of the Premier, Rarotonga, Cook Islands.

DAVIS, Hon. William Grenville, Q.C., M.P.P.; Canadian lawyer and politician; b. 30 July 1929, Brampton, Ont.; s. of late Albert Grenville and Vera (Hewetson) Davis; m. 1st Helen MacPhee 1953 (died 1962); m. 2nd Kathleen Mackay 1963; two s. three d.; ed. Univ. of Toronto; called to the Bar 1955; mem. Ontario House of Ass. 1959-; Minister of Educ., Provincial Govt. of Ont. 1962-71, also of Univ. Affairs 1964-71; Premier of Ont. and Pres. of Council March 1971-. *Leisure interests;* boating, tennis, football. *Address:* Office of the Premier, Main Legislative Building, Queen's Park, Toronto, Ont. M7A 1A1, Canada. *Telephone:* 965-1941.

DAVOS, Gen. Ioannis; Greek army officer; b. 23 Nov. 1918, Aghios Georgios, Dorion, Trifila; s. of Ioannis and Athanasia Davos; m. Anastasia Demetropoulou 1947; three s.; ed. Army Cadets Coll., War Coll., Nat. Defence Coll.; served Albania 1940-41, Resistance in Peloponnese 1941-42, Company Commdr. in anti-communist campaign in Greece 1946-49; Instructor at War Coll. 1959; Staff Officer, G3/HAGS 1960-62; Battalion Commdr., Mil. Cadets School 1962-64; Commdr. 30th Infantry Regt. 1967-68; 1st Field Army/AC of S G3 1968-69; Chief of Staff II Corps 1970-72; Commdr. XI Infantry Div. 1972-73; Commdr. C Corps 1973-74; Chief of Army Staff 1974-76; Commdr.-in-Chief, Supreme Greek Armed Forces Command Sept. 1976-; Gold Order of Merit for Bravery; Grand Commdr. Order of Honour; War Cross C Class (twice); Order of Cavalier de Madara with Epées, First Class (Bulgaria), Order Tudor Vladimirescu, First Class (Romania), Gran Croce dell Ortine Al Merito (Italy), Grosse Verdienstkreuz Mit Stern (Fed. Repub. of Germany), Commdr., Ordre nat. du Mérite and numerous other Greek and foreign decorations. *Address:* Hellenic National Defense General Staff, Greek Armed Forces, Athens, Greece.

DAWNAY, Lt.-Col. Christopher Payan, C.B.E., M.V.O.; British business executive (retd.); s. of late Maj. Gen. Guy P. Dawnay and Mrs Dawnay; m. Patricia Wake 1939; two s. two d.; ed. Winchester and Magdalen Coll., Oxford; Dawnay Day & Co. Ltd., Merchant Bankers 1933-39, 1946-50; Army service 1939-45; Partner, Edward de Stein & Co., Merchant Bankers 1951-60; Man. Dir., Lazard Bros. & Co. 1960-74; Chair. Guardian Assurance Co. 1967-68, Guardian Royal Exchange Assurance Co. 1970-74; Pres. Dalgety Ltd.; Dir. other cos.; Legion of Merit. *Address:* Longparish House, Andover, Hampshire, England.

DAY, J. Edward, A.B., LL.B.; American lawyer and politician; b. 11 Oct. 1914, Jacksonville, Ill.; s. of James Allmond and Frances Edna (Wilmot) Day; m. Mary Louise Burgess 1941; one s. (deceased) two d.; ed. Univ. of Chicago and Harvard Univ.; admitted Illinois Bar 1938, in private law practice 1939-40, 1945-49; served U.S. Navy 1940-45; Legal and Legis. Asst. to Gov. Adlai Stevenson 1949-50; Commr. of Insurance, Illinois 1950-53; with Prudential Insurance Co., America 1953-61, Vice-Pres. Western Operations, Los Angeles 1957-61; Postmaster-Gen. of U.S. 1961-63; Partner at Washington Office of Chicago law firm, Sidley and Austin 1963-73, Cox, Langford and Brown, Washington, D.C. 1973-; and Squire, Sanders and Dempsey, Cleveland, Ohio; mem. Bd. and Exec. Cttee. of 6 insurance cos.; voting trustee Commonstock of Consolidated Rail Corpn. (Conrail). Democrat. *Publications:* Bartholf Street, Descendants of Christopher Day of Bucks County, Pennsylvania, My Appointed Round—929 Days as Postmaster General, Speeches Don't Have to be Dull, Humor in Public Speaking. *Leisure interest:* breeding English Red Devon Beef Cattle. *Address:* 21 DuPont Circle, N.W., Washington, D.C. 20036, U.S.A. *Telephone:* (202) 862-7000.

DAY, John W.; American motor manufacturing executive; b. 25 Feb. 1933, Chicago, Ill.; s. of John W. Day and Gay Potters Day; m. Barbara Cline 1955; two d.; ed. Northwestern Univ.; Captain, U.S. Marine Corps 1955-57; Man. of Accounting, Missile Div. of U.S.A.F.T.A. 1957-61, Man. of Finance of U.S.A.F.T.A. 1961-63; Man. of Accounting and Audit, Chrysler Int. 1963-64; Finance Dir. Chrysler Peru 1964-67, Chrysler do Brasil 1967-69; Man. Dir. Chrysler Colmotores (Colombia) 1969-71, Chrysler Fevre Argentina 1971-73, Chrysler España 1973-75; Group Dir. of Chrysler Corp. in France and Spain 1975; Vice-Pres. Chrysler Corpn. (Europe) 1976–, Pres. Chrysler France 1976-. *Leisure interests:* golf, swimming. *Address:* 1 Place de l'Alma, Paris, France. *Telephone:* 723 9810.

DAY, Robin; British television and radio journalist; b. 24 Oct. 1923, London; s. of William and Florence Day; m. Katherine May (née Ainslie) 1965; one s.; ed. Bembridge School, Oxford Univ.; Army Service 1943-47; Pres. Oxford Union 1950; called to the Bar 1952; BBC radio journalist 1954-; Independent Television News newscaster and political corresp. 1955-59; BBC television political interviewer and reporter specializing in current affairs 1959-; BBC radio World at One interviewer Jan. 1979-; introducer of Panorama 1967-72; mem. Phillimore Cttee. on Law of Contempt 1971-74; Richard Dimbleby Award, Soc. of Film and TV Arts 1974. *Publications:* Television—A Personal Report 1961, The Case for Televising Parliament 1963 (pamphlet), Troubled Reflections of a TV Journalist (article in "Encounter") May 70, Day by Day 1975. *Leisure interests:* talking, skiing, reading. *Address:* c/o BBC Studios, Lime Grove, London, W.12, England.

DAYAL, Rajeshwar, M.A.; Indian diplomatist; b. 12 Aug. 1909, Naini Tal. U.P.; s. of the late Mr. and Mrs. D. Dayal; m. Susheela Srivastara 1938; ed. P.S. Coll., Naini Tal, U.P. Allahabad Univ., and New Coll., Oxford; entered Indian Civil Service 1932; Deputy Sec. Civil Supplies Dept., U.P. Govt. 1943-46, Home Sec. 1946-48; Minister-Counsellor and Chargé d'Affaires Moscow 1948-50;

Special Commr. to Indian Govt. and Joint Sec. to Govt. External Affairs Dept. 1950; Alternate Rep. Security Council 1950-51, Perm. Rep. to U.N. 1952-54, mem. U.N. Peace Observation Comm., U.N. Comm. of Twelve on Disarmament, U.N. Comm. for Relief and Rehabilitation of Korea, U.N. Trusteeship Council, U.N. Human Rights Comm.; Amb. to Yugoslavia 1955-58, concurrently Minister to Bulgaria and Romania; High Commr. to Pakistan 1958-60, 1961-63; Personal Rep. of Sec.-Gen. of UN in the Congo Sept. 1960-May 1961; Special Sec. Ministry of External Affairs 1963-65; Commonwealth Sec. Ministry of External Affairs 1965; Amb. to France 1965-67; Sec.-Gen. Ministry of Foreign Affairs 1967-Nov.1968; Chair. UN Cttee. for Eradication of Racial Discrimination 1969-; Visiting Prof. Princeton Univ. 1969-70; Scholar in Residence, Aspen Inst. for Humanistic Studies 1972; Woodrow Wilson Fellow, Smithsonian Inst. 1971, 1973; Fellow, St. Antony's Coll., Oxford 1976; Padma Vibhushana 1969. *Publication:* Mission for Hammarskjöld (The Congo Crisis) 1976. *Leisure interests:* shooting, riding, music, gardening, reading. *Address:* 17 Palam Marg, New Delhi 57, India. *Telephone:* 671-446.

DAYAN, Lt.-Gen. Moshe, LL.B.; Israeli soldier and politician; b. 20 May 1915, Degania; s. of Dvora and Shmuel Dayan; m. 1st Ruth Schwartz 1935 (divorced 1972); m. 2nd Rachel Corem 1973; ed. agricultural high school, Nahalah, Staff Coll., Camberley, U.K. and Tel-Aviv Univ.; trained in Haganah (Jewish militia) 1929; second in command to Capt. Orde Wingate 1937; imprisoned by British when Haganah declared illegal 1939; released to lead reconnaissance and commando troops in Vichy Syria, wounded, losing eye 1941; intelligence work in Haganah 1941-48; Jordan Valley Front, "Dany" campaign 1948; promoted to Sgan-Aluf (Lt.-Col.) and named Commdr. Jerusalem front 1948; rep. Israel Defence Forces at Rhodes armistice talks with Jordan 1949; promoted to Aluf (Maj.-Gen.) and Commdr. Southern Region Command 1950; after military studies in U.K. appointed Commdr. Northern Region Command 1951; Head of Gen. Staff Branch at GHQ 1952; Chief of Gen. Staff 1953-58; studied at Faculty of Law, Tel-Aviv Univ. and in Jerusalem 1958-59; Minister of Agriculture 1959-64; resigned from Govt. 1964; joined RAFI party 1965; mem. of Knesset Nov. 1965-; joined Unity Govt. ■■ Minister of Defence 1967; Knesset "Maarach" (Alignment) list 1969; Minister of Defence 1969-74, of Foreign Affairs June 1977-; Editor-in-Chief of Hayom Haze (newspaper) 1976-. *Publications:* Diary of the Sinai Campaign 66, Mapa Kadasha, Yahassim Aherim (New Map, Other Relations) 1969, Story of my Life 1976, Living with the Bible 1978; various articles on Viet-Nam, etc. *Leisure interest:* archaeology. *Address:* 11 Yoav Street, Zahala, Israel.

DEACON, Sir George E.R., Kt., C.B.E., D.SC., F.R.S., F.R.S.E., F.R.A.S., F.R.G.S.; British physicist; b. 21 March 1906, Leicester; s. of late George R. Deacon; m. Margaret E. Jeffries 1940 (died 1966); one d.; ed. City of Leicester Boys' School and King's Coll., London; joined Discovery Investigations 1927; Royal Navy Scientific Service 1939; Dir. Nat. Inst. of Oceanography 1949-71; Fellow, King's Coll., London; Fellow, Royal Inst. of Navigation, Pres. 1961-64; Vice-Pres. Royal Geographical Soc. 1965-70; Hon. D.Sc. (Liverpool, Leicester); Polar Medal 1942; Alexander Agassiz Medal, U.S. Nat. Acad. of Sciences 1962, Royal Medal, Royal Soc. 1969, Prince Albert I of Monaco Medal 1970, Inst. of Navigation Bronze Medal 1970; Founder's Medal, Royal Geographical Soc. 1971; Scottish Geographical Medal 1972. *Publications:* publications on the Southern Ocean in Discovery Reports; papers on waves, currents and general oceanographic topics in scientific and professional journals. *Leisure interests:* walking, gardening, history, history of science. *Address:* Flitwick House, Milford, Surrey. England. *Telephone:* Godalming 5929.

DEAKIN, Sir William, Kt., D.S.O., M.A.; retired British university official; b. 3 July 1913, London; s. of Albert Whitney and Bertha Mildred Deakin; m. 1st Margaret Beatson Bell 1935 (dissolved); m. 2nd Livia Stela Nasta 1943; two s.; ed. Westminster School and Christ Church, Oxford; Fellow and Tutor, Wadham Coll., Oxford 1936-49, Research Fellow 1949, Hon. Fellow 1952; with Queen's Own Oxfordshire Hussars 1939-41; seconded to Special Operations, War Office 1941; led first British Mil. Mission to Marshal Tito 1943; First Sec. Embassy, Belgrade 1945-46; Warden of St. Antony's Coll., Oxford 1950-69; Hon. Fellow 1969; D.S.O. 1943; Russian Order of Valour 1944, Chevalier, Légion d'honneur 1953, Bundesehrenkreuz (Fed. Repub. of Germany) 1958, and two Yugoslav mil. orders. *Publications:* The Brutal Friendships: Mussolini, Hitler and the Fall of Italian Fascism 1962, The Case of Richard Sorge 1964. The Embattled Mountain 1971. *Leisure interests:* travel, writing. *Address:* Le Castellet, 83 Var, France. *Telephone:* 90-63-21.

DEAN, Antony Musgrave; British broadcaster; b. 7 Jan. 1921, Loose, Kent; s. of Arthur Edis Dean, C.B.E., M.A., M.LITT. and Elsie Georgina Dean (née Musgrave-Wood); m. 1st Anne Virginia Batcup 1943; m. 2nd Sheila Francis Whittingham 1956; three s. three d.; ed. The King's School, Canterbury; Commissioned Queen's Bays (2nd Dragoon Guards) 1941, wounded Western Desert 1942; forces Broadcasting Service Kenya 1945-46; Recording, feature film work and BBC news stringer 1947-52; Broadcasting Officer, Kenya Govt. 1952-59; Controller of Programmes, Kenya Broadcasting Service 1959-61, Operations Exec. 1962-64; Dir. of Radio Programme Dept., European Broadcasting Union 1964-. *Leisure interests:* music, skiing. *Address:* Villa Chania, 1295 Mies, Vaud, Switzerland. *Telephone:* (022) 55-19-63.

DEAN, Arthur Hobson, LL.D.; American lawyer; b. Oct. 1898, Ithaca, New York; s. of William Cameron and Maud J. J. Dean; m. Mary Marden 1932; one s. one d.; ed. Cornell Univ.; admitted to New York Bar 1923, practised with Sullivan & Cromwell, New York, partner of firm 1929-76, Counsel 1976-, general counsel to various corpns.; Dir. and Trustee numerous cos. including El Paso Co., American Bank Note Co., Nat. Union Electric Corpn.; Trustee Emer., Cornell Univ.; mem. American Bar Assn.; Hon. Dir. Council on Foreign Relations and Japan Soc. Inc.; Rep. for U.S. and 16 nations contributing troops at Panmunjom negotiations; special U.S. Amb. to Korea 1953-54; Amb. to UN Conf. on Law of the Sea, Geneva 1958, 1960, to Nuclear Test Ban Negotiations, Geneva 1961-62, to Disarmament Conf., Geneva 1962; American Soc. of Int. Law 1956-59, Pres. 1961-62, Hon. Vice-Pres. 1962-; mem. Acad. of Political Science, and Political and Social Science, American Law Inst., American Judicature Soc., etc.; Hon. LL.D. (Hamilton, Allegheny, Rutgers, Washington, Brown, Dartmouth, Bowdoin and C.W. Post Colls. and Adelphi Univ.); Hon. D.C.L. (Hofstra Coll.); Hon. D.Hum. (Washington Coll.); Hon. D.Litt. (Lafayette Coll.); Officier, Légion d'honneur. *Publications include:* Investment Banking in ■ Changing World 1951, Can Conventional accounting Cope with Inflation? 1951, The Relation of Law and Economics to the Measurement of Income 1952, Investment Banking and the Anti-trust Laws 1952, Test Ban and Disarmament: The Path of Negotiation 1966. *Address:* 125 Bond Street, New York, N.Y. 10004 (Office); Mill River Road, Oyster Bay, L.I., N.Y. 11771, U.S.A. (Home).

DEAN, John Gunther, PH.D.; American diplomatist; b. 24 Feb. 1926, Germany; s. of Dr. Joseph and Lucy Dean; m. Martine Duphénieux 1952; two s. one d.; ed. Harvard Coll., Harvard and Paris Univs.; entered Govt. Service 1950; diplomatic posts in France, Belgium, Viet-Nam, Laos, Togo, Mali and in U.S. Dept. of State; Dir. Pacification Programme in Mil. Region 1, Viet-Nam 1970-72; Deputy Chief Mission, American Embassy, Laos 1972-74; Amb. to Khmer Repub. 1974-75, to Denmark 1975-78, to the Lebanon 1978-; various U.S. and foreign decorations. *Leisure interest:* tennis. *Address:* Embassy of America, Beirut; Department of State, Washington, D.C. 20520, U.S.A.

DEAN, Sir Patrick Henry, G.C.M.G.; British diplomatist; b. 16 March 1909, Berlin, Germany; s. of Prof. Henry Roy and Irene Dean (née Wilson); m. Patricia Wallace Jackson 1947; two s.; ed. Rugby School and Gonville and Caius Coll., Cambridge; called to Bar at Lincoln's Inn 1934; legal practice 1934-39; Asst. Legal Adviser, Foreign Office 1939-45, Head German Political Dept. 1945-50, Minister in Rome 1950-51; Civilian Instructor Imperial Defence Coll. 1952; Asst. Under-Sec. Foreign Office 1953-56, Deputy Under-Sec. 1956-60; Perm. Rep. to UN 1960-64; Amb. to U.S.A. 1965-69; Chair. ESU Dec. 1972-, Governing Body Rugby School 1972-; Dir. Taylor Woodrow Ltd., Ingersoll Rand Holdings Ltd.; Int. Adviser to American Express; Hon. LL.D. (Columbia, Lincoln, Wesleyan Chattanooga, Hofstra Univs., William and Mary Coll.); Hon. Bencher Lincoln's Inn; Hon. Fellow Clare Coll. and Gonville and Caius Coll., Cambridge. *Leisure interests:* shooting, fishing, walking. *Address:* 5 Bentinck Mansions, Bentinck Street, London, W.1, England. *Telephone:* 01-935 0881.

DEAN, Robert Halladay, B.A.; American food executive; b. 27 June 1916; ed. Grinnell Coll.; Man. Checkerboard Elevator Co., Buffalo 1941-43; Man. Ralston Purina Co., Ohio 1943-45, Grain Div., St. Louis 1945-48, Pres. Int. Div., St. Louis 1958-, Vice-Pres., Asst. to Pres. 1958-61, Exec. Vice-Pres., Dir. 1961-63, Chief Operating Officer 1963-66, Pres. 1966-69, Chair., C.E.O. 1966-. *Address:* 835 South 8th Street, St. Louis, Mo. (Office); 4 Devon Road, Glendale 22, Mo., U.S.A. (Home).

DEARDEN, H. E. Cardinal John, S.T.D.; American ecclesiastic; b. 15 Oct. 1907, Valley Falls, R.I.; s. of John S. Dearden and Agnes Gregory Dearden; ed. Holy Trinity School, Central Falls, St. Philomena Elementary School, Cleveland, Cathedral Latin School, Cleveland, St. Mary Seminary, Cleveland, N. American Coll., Rome and Pontifical Gregorian Univ., Rome; Ordained priest 1932; Papal Chamberlain with title of Very Rev. Monsignor 1945; Coadjutor

Bishop of Pittsburgh 1948-50, Bishop of Pittsburgh 1950-58; Asst. to Pontifical Throne 1957; Archbishop of Detroit 1958-; held various posts on Nat. Catholic Welfare Conf. and Vatican Council; Pres. Nat. Conf. of Catholic Bishops 1966-71; cr. Cardinal 1969. *Leisure interest:* reading. *Address:* 1234 Washington Boulevard, Detroit, Mich. 48226, U.S.A. *Telephone:* 237-5816.

DE ARÉCHAGA, Eduardo Jiménez (*see* Jiménez de Aréchaga, Eduardo).

DE BACKER-VAN OCKEN, Rika; Belgian politician; b. 1 Feb. 1923, Anvers; seven c.; ed. Ecole Ste. Lutgarde, Anvers and Catholic Univ. of Louvain; worked on Winkler Prins voor de Vrouw encyclopaedia; Editor KAV (Christian league of working women); Vice-Pres. Christian Social Party, Anvers; mem. Provincial Senate for Anvers 1971-74; mem. Senate 1974-; mem. Comms. for Nat. Educ., Culture, Justice; Minister of Dutch Culture and Flemish Affairs 1974-79, of Dutch Culture April 1979-. Ministry of Dutch Culture, Brussels, Belgium.

DEBAKEY, Michael Ellis, B.S., M.D., M.S.; American surgeon; b. 7 Sept. 1908, Lake Charles, Louisiana; s. of Shaker M. DeBakey and Raheega Zerba; m. 1st Diana Cooper 1936 (died 1972); four s.; m. 2nd Katrin Fehlhaber 1975; ed. Tulane Univ., New Orleans; Instructor Tulane Univ. 1937-40, Asst. Prof. of Surgery 1940-46; War Service, Colonel, ultimately Dir. Surgical Consultant Div., Office of the Surgeon Gen. 1942-46; U.S. Army Surgical Consultant to Surgeon-Gen. 1946-; Assoc. Prof. Tulane Univ. 1946-48; Prof. and Chair. Dept. of Surgery, Baylor Coll. of Medicine, Houston, Texas 1948-, Pres. 1969-, Chancellor 1978-, Dir. Nat. Heart and Blood Vessel Research and Demonstration Center, Baylor Coll. of Medicine; Surgeon-in-Chief, Ben Taub Gen. Hosp.; Senior Attending Surgeon, Methodist Hosp. and Consultant in Surgery, Veterans Administration Hospital, Houston; consultant surgeon to many hospitals in Texas; mem. Nat. Advisory Heart Council 1957-61, Program, Planning Cttee. and Cttee. on Training 1961-, Nat. Advisory Council on Regional Medical Programs 1965-, Advisory Council, Inst. for Advanced Research in Asian Science and Medicine, Brooklyn, New York 1978-; Chair. Pres. Comm. on Heart Disease, Cancer and Stroke 1964-; implanted first artificial heart in man April 1966; editorial staff of numerous medical journals and editor of General Surgery: Vol. II, History of World War II, co-editor American Lectures in Surgery; mem. numerous American and foreign medical socs. and asscns. and holder of numerous advisory appointments; many awards including Harris County Hospital District 30-year Service Award and hon. degrees. *Publications:* over 1,000 articles. *Address:* Baylor College of Medicine, Texas Medical Center, 1200 Moursund Avenue, Houston, Texas 77025, USA. (Office). *Telephone:* 797-9353.

DE BEER, Zacharias Johannes, M.B., CH.B.; South African physician, business executive and politician; b. 11 Oct. 1928, Woodstock, Cape; s. of the late Dr. Z. J. De Beer and Jean De Beer; m. 1st Maureen Strauss 1952, 2nd Mona Schwartz 1965; one s. two d.; ed. Diocesan Coll., Rondebosch and Univ. of Cape Town. House Surgeon, Groote Schuur Hosp. 1952; Medical Practitioner 1953-59; mem. Parl. 1953-61, 1977-; Dir. P. N. Barrett Co. (S. African Advertising Contractors) 1962-67; joined Anglo American Corpn. of S. Africa 1968, Man. 1970-72, mem. Board 1974-; Chair. Anglo American Corpn. of Cen. Africa Ltd. 1972-; Pres. Zambia Copper Investments; Chair. LTA Ltd.; Exec. Dir. Anglo American Corpn. (South Africa) Ltd.; Dir. Nchanga Consolidated Copper Mines Ltd. and other cos. *Publication:* Multi-Racial South Africa: the Reconciliation of Forces 1960. *Leisure interests:* bridge, politics, tennis. *Address:* Box 61587, Marshalltown, Transvaal (Office); 39 Cotswold Drive, Saxonwold, Johannesburg, South Africa (Home). *Telephone:* 838-8111 (Office); 42-9778 (Home).

DE BENEDETTI, Carlo; Italian company executive; b. 14 Nov. 1934, Turin; m. Margherita Crosetti 1960; three s.; ed. Turin Polytechnic; Chairman and Chief Exec. Officer, Gilardini 1972-76; Vice-Chair. and Man. Dir. IMMOFINA 1973-; Dir. Euromobiliare finance co. 1973-, Vice-Chair. 1977-; Vice-Chair. and Chief Exec. Officer Compagnie Industriali Riunite (CIR) 1976-; exec. post with FIAT 1976; Vice-Chair. and Chief Operating Officer, Ing. C. Olivetti & Co. S.p.A. April 1978-. *Publications:* lectures and articles in business journals. *Address:* Ing. C. Olivetti & Co. S.p.A., via Jervis 77, 10015 Ivrea, Turin, Italy. *Telephone:*0125-522011.

DE BESCHE, Hubert W. A.; Swedish diplomatist; b. 7 July 1911, Frösö; s. of Col. Hubert and Mrs. Ebba de Besche; m. Eva D. K. H. Rhedin 1946; two d.; ed. Univ. of Stockholm and Grenoble and Heidelberg; Ministry of Foreign Affairs 1936-, served in London and Stockholm 1936-47, Head Comm. of Trade and Commerce 1947-49, Economic Counsellor, Washington; Head Trade Dept., Ministry of Foreign Affairs 1953-56, Deputy Sec.-Gen. Ministry of Foreign Affairs 1956-63; Amb. to U.S.A. 1964-73, to Denmark 1973-77; mem. Steering Board for Trade, OEEC 1956-60; Vice-chair. Trade Cttee., OECD 1960-63; Chair. EFTA Negotiations 1959; del. to numerous trade negotiations; Grand Cross North Star (Sweden), Grand Cross of Dannebrog (Denmark), Grand Cross Homayoun (Iran), Grand Cross Order of Christ (Portugal), Order of the Sun (Peru), Order of Merit (Chile); Hon. K.B.E., etc. *Leisure interests:* fencing, fishing, skiing. *Address:* c/o Ministry of Foreign Affairs, Stockholm, Sweden.

DE BEUS, J. G., LL.D.; Netherlands diplomatist; b. 1909; m. Louise G. Broussard 1960; one d.; ed. Univ. of Leyden; entered foreign service; served Brussels 1936-38, Copenhagen 1938-39, Berlin 1939-40; Sec. to Foreign Office and to Prime Minister (London) 1940-45; Counsellor, Washington 1945-49; Perm. Del. to UN 1948-49; Alternative Del. to Third Gen. Assembly of UN; Head Far-Eastern Office 1949; Deputy High Commr., Jakarta 1950; Minister, Washington 1950-54; Amb. to Pakistan 1955-57; Amb. to the U.S.S.R. 1957-60; Amb. to Australia 1960-63; Perm. Rep. of Netherlands to UN 1964-67; Amb. to Fed. Repub. of Germany 1967-74; Asst. Sec.-Gen. UN 1975-; Exec. Dir. UN Fund for Drug Abuse Control 1975-; Commdr. Order of Orange-Nassau, Knight Order of Netherlands Lion, Grand Cross, Order of Merit, Fed. Republic of Germany. *Publications:* The Jurisprudence of the General Claims Commission, U.S.A. and Mexico 1938, De Wedergeboorte van het Koninkrijk 1943, The Future of the West 1953, In Rusland 1964, Morgen by het aanbreken van de dag 1977, Tomorrow at Dawn 1979. *Leisure interests:* tennis, squash, skiing. *Address:* Claire Fontaine, 1297 Founex (Vd). Switzerland (Home).

DEBEYRE, Guy Edouard Pierre Albert; French university professor; b. 6 Nov. 1911; ed. Lille Univ.; Prof. Faculty of Law and Economic Sciences, Univ. of Lille 1945-55, Dean 1950-55, Rector 1955-72; Prof. Univ. Paris; Conseiller d'Etat 1972-76; Pres.-Gen. Cttee. for Econ. Expansion of the North and Pas de Calais 1956-; Vice-Pres. Nat. Council of Regional Economies and of Productivity 1969-; Deputy Mayor of Lille 1977-; Commdr. Légion d'honneur, Croix de guerre (1939-45), Hon. C.B.E. *Publications:* La responsabilité de la puissance publique en France et en Belgique 1936, Le Conseil d'Etat belge 1947, Traité de droit administratif 1954, Le droit public des français 1956. *Address:* 12 place du Panthéon, 75005 Paris; Mairie de Lille, 59033 Lille (Office); 112 rue Meurein, 59000 Lille, France (Home). *Telephone:* 572156 (Home).

DEBRÉ, Michel, D. en D.; French politician; b. 15 Jan. 1912, Paris; m. Anne Marie Lemaresquier 1936; four s.; ed. Ecole des Sciences Politiques, Paris; Auditeur, Conseil d'Etat 1934; Commr. de la République, Angers region 1944; mem. Comm. for Reform of the Civil Service 1945; attached to Saar Economic Mission 1947; Sec.-Gen. German and Austrian Affairs, Ministry of Foreign Affairs 1948; elected Senator from Indre et Loire 1948, re-elected 1955, Deputy from St. Denis, Réunion 1963-, re-elected 1967, 1968-73, 1978; Keeper of the Seals 1958-59; Prime Minister Jan. 1959-April 1962; Minister of Economic Affairs and Finance 1966-68, of Foreign Affairs 1968-69, of Defence 1969-73; Officier Légion d'honneur, Croix de guerre, Rosette de la Resistance Rassemblement pour la République (RPR). *Publications:* Refaire la France 1944, Demain la paix 1945, La République et son pouvoir 1950, La République et ses problèmes 1953, La mort de l'état républican, Ces princes qui nous gouvernent 1957, Refaire une démocratie, un Etat, un pouvoir 1958, Au service de la nation 1963, France, quelle jeunesse te faut-il? 1965, Sur le gaullisme 1967, A la jeunesse 1969, Lettres à des militants sur la continuité, l'ouverture et la fidélité 1970, Une certaine idée de la France 1972, Combat pour les élections de 1973 1973, Une politique pour la Réunion 1974, Ami ou ennemi du peuple? 1975. *Address:* 18 rue Spontini, 75116 Paris, France.

DE BRUYNE, Dirk; Netherlands petroleum executive; b. 1 Sept. 1920, Rotterdam; m.; one s. one d.; ed. Nederlandsche Econ. Hoogeschool, Rotterdam; joined Shell Group 1945, worked in Finance Div. 1945-55; worked with group in Indonesia 1955-58, Treas. Indonesia 1957-58; Deputy Treas., London 1958-60; Finance Man., The Hague 1960-62; Finance Man. Shell Italiana 1962-64, Exec. Vice-Pres. 1964-65; Regional Co-ordinator (Oil) for Africa 1965-68; Gen. Man. Deutsche Shell 1968-70; Dir. of Finance, London 1970; Dir. Shell Petroleum Co. Ltd. 1970, Man. Dir. 1971-; Dir. Shell Petroleum N.V. 1970, mem. Presidium of Board of Dirs. 1971-76, Vice-Chair. 1976-; Dir. Shell Int. Petroleum Co, Ltd. 1970; Dir. Shell Transport and Trading Co. Ltd. 1971-74; Man. Dir. N.V. Koninklijke Nederlandsche Petroleum Maatschappij (Royal Dutch Petroleum Co. Ltd.) 1974-77, Pres. July 1977-; Knight, Order of the Netherlands Lion. *Address:* Royal Dutch Petroleum Company, Carel van Bylandtlaan 30, The Hague, Netherlands. (Office). *Telephone:* (070) 776655.

DEBU-BRIDEL, Jacques, L.EN D.; French writer and politician; b. 22 Aug. 1902, Mézières en Drouais; s. of Gabriel Debû and Ernestine Bridel; m. Marie-Adélaïde Pluzanski 1927; two d.; ed. Colls. of Lausanne and Dreux, Faculty of Law, Sorbonne, Paris, and Ecole Libre des Sciences Politiques; Journalist with l'Eclair 1922; then with various publs., notably l'Avenir and Comédia; co-founder of Federalist review Latinité; wrote for l'Ordre for six years; mem. of Ligue des Patriotes and l'Union pour la Nation; Chief Sec. to Minister for Merchant Marine 1939; French Army 1940; Leader of Resistance in Occupied Zone; mem. of l'Organisation Civile et Militaire and of Front National; rep. of Nat. Republicans to Council of Resistance 1943-45; Provisional Sec.-Gen. for Navy 1945; mem. of Provisional Consultative Assembly and of Comms. for National Defence, Propaganda and Information; Dir. of journal Front National, resgnd. because of Communist domination 1945; mem. of R.P.F. (Gaulliste); Vice-Pres. Organizing Cttee. R.P.F. for the Seine; Paris Municipal Councillor 1947-48; Senator for the Seine 1948, re-elected 1952-58; mem. Paris Municipal Council 1953; founder Union Démocratique du Travail 1958; Chair. of Budget Cttee. for Fine Arts, Council of the Republic; Dir. of Paris Services, Radio Monte Carlo 1960-66, Dir. of Information 1966-69; Dir. of weekly Notre République 1966; Médaille de la Resistance, Croix de guerre, Officier de la Légion d'honneur. *Publications:* Novels: Jeunes ménages 1935 (Prix Interallié), Exil au grand palais 1948, Déroute 1945, Sous la cendre 1951, Frère esclave (new edn. 1957); Essays: Alphonse Daudet et la famille 1929, Alger 1930, La grande tragédie du monde animal 1955; Biographies: La Fayette 1945, Emily Brontë 1950, Fourier; general: Journées révolutionnaires de Paris, Vol. I 1960, Vol. II 1961, Vol. III, Conjuration d'Amboise 1963, 20,000 siècles de chasse à la pierre ou l'épopée du silex, La résistance intellectuelle De Gaulle contestataire, De Gaulle et le C.N.R, L'Actualité de Charles Fourier. *Leisure interests:* horses, dogs, knitting. *Address:* 15 rue des Barres, 75004 Paris, France (Home). *Telephone:* TUR 21-61.

DE BUNSEN, Sir Bernard, Kt, C.M.G., M.A.; British educator and administrator; b. 1907, Cambridge; s. of the late L. H. G. de Bunsen and Victoria (née Buxton) de Bunsen; m. Joan Harmston, M.B.E. 1975; ed. Leighton Park School and Balliol Coll., Oxford; Schoolmaster, Liverpool Public Elementary Schools 1931-34; Asst. Dir. of Education, Wiltshire County Council 1934-38; H.M. Inspector of Schools, Ministry of Education 1938-46; Dir. of Education, Palestine 1946-48; Prof. of Education, Makerere Univ. Coll. 1948, Act. Principal Aug. 1949, Principal 1950-63; Vice-Chancellor, Univ. of East Africa 1963-65; Principal, Chester Coll., England 1966-71; Chair. Africa Educ. Trust 1966-, Africa Bureau 1971-77, Council for Aid to African Students 1976; Vice-Pres., Anti-Slavery Soc. 1975-, Royal African Soc. 1977; Hon. LL.D. (Univ. of St. Andrews). *Address:* 3 Prince Arthur Road, London, N.W.3, England. *Telephone:* 01-435 3521.

DEBUS, Kurt Heinrich, PH.D., M.S.; American (b. German) engineer; b. 29 Nov. 1908, Frankfurt-am-Main, Germany; s. of Heinrich Peter Jakob Debus and Melly Frida Graulich; m. Irmgard Helene Brückmann 1937; two d.; ed. Technische Hochschule, Darmstadt; Asst. Prof. Technische Hochschule, Darmstadt 1939-42; Test Engineer, Flight Test Dir., Peenemuende Rocket Centre, Germany 1942-45; Deputy Dir. Guidance and Control Div., and Staff Asst. to Wernher von Braun, Army Ballistic Missile Agency, Huntsville, Ala. 1945-52; U.S. citizen 1950-; Dir. Missile Firing Lab., Army Ballistic Missile Agency, Cape Canaveral (later Cape Kennedy), Florida 1960-62; Dir. Launch Operations Center, Nat. Aeronautics and Space Admin. (NASA), Cape Canaveral 1962-63; Dir. John F. Kennedy Space Center, NASA Kennedy Space Center 1963-74; retd. from govt. service 1974; Chair. of Board of OTRAG 1975-; mem. Nat. Acad. of Engineering 1975-, Advisory Board, British Interplanetary Soc.; Hon. mem. Hermann Oberth Gesellschaft, German Soc. for Rocket Technology and Space Flight, Instrument Soc. of America; Ex-Officio mem. Florida Council of 100; numerous decorations and medals including Exceptional Civilian Service Award, U.S. Army 1959, NASA Distinguished Service Medal 1969, U.S. Space Hall of Fame Award 1969, Bundesverdienstkreuz (Fed. Germany); many hon. degrees. *Publications:* Numerous works, designs, etc. on launch of ballistic missiles and space vehicles 1939-. *Leisure interests:* music, boating. *Address:* 280 Bahama Boulevard, Cocoa Beach, Fla. 32931, U.S.A.

DE BUTTS, John D.; American communications executive; b. 10 April 1915, Greensboro, N.C.; s. of Sydnor and Mary Ellen De Butts; m. Gertrude Willoughby Walke 1939; two d.; ed. Virginia Military Inst.; joined Chesapeake and Potomac Telephone Co. of Virginia 1936; subsequently held assignments with American Telephone and Telegraph Co. (AT & T) and New York Telephone; Vice-Pres. C & P Companies 1959; Pres. Illinois Bell Co. 1962; Exec. Vice-Pres. AT & T 1966, Vice-Chair. 1967-72, Dir. 1967-, Chair. and Chief Exec. Officer 1972-79; Dir. Citicorp and its subsidiary Citibank, Gen Motors Corpn., Kraft Corpn., U.S. Steel Corpn.; mem. Business Council; mem. Business Roundtable; Vice-Chair. and Trustee Duke Endowment. *Leisure interests:* hunting, fishing, golf. *Address:* American Telephone & Telegraph Co., 195 Broadway, New York, N.Y. 10007, U.S.A. (Office).

DECARIS, Albert Marius Hippolyte; French artist; b. 6 May 1901, Sotteville-les-Rouen; m.; one d.; ed. Ecole Estienne, Ecole Nationale Supérieure des Beaux-Arts; Frescoes, Int. Exhibition, Paris 1937, New York 1938, Town Hall, Vesoul; engravings and book illustrations; design of French and French Overseas postage stamps; Premier Grand Prix de Rome 1919; mem. Acad. des Beaux Arts, Pres. 1960, 1966, 1978; Pres. Inst. de France 1960; Officier Légion d'honneur, Croix de guerre (1939-45). *Address:* 3 quai Malaquais, 75006 Paris, France. *Telephone:* 0338261.

DECONCINI, Dennis, LL.B.; American lawyer and politician; b. 8 May 1937, Tucson, Ariz.; s. of Evo and Ora DeConcini; m. Susan Margaret Hurley; one s. two d.; ed. Univ. of Arizona and Univ. of Arizona Coll. of Law; Committeeman, Pima County 1958-76; worked with family law practice 1963-65; special counsel to Gov. of Ariz. 1965, Admin. Asst. to Gov. 1965-67; Partner, DeConcini & McDonald, law firm 1968-73; Pima County Attorney 1973-76; Admin., Ariz. Drug Control District 1975-76; fmr. mem. Ariz. Democratic Exec. Cttee., Vice-Chair. 1964, 1970; mem. U.S. Senate for Ariz. Jan. 1977-, mem. judiciary cttee., appropriations cttee., special cttee. on ageing; Chair. sub-cttee. on improvements in judicial machinery; served U.S. Army 1959-60, Judge Advocate Gen. Corps. 1964-67; mem. Pima County Bar Assn., Ariz. Bar Assn., American Bar Assn., American Judicature Soc., American Arbitration Assn., Nat. District Attorneys' Assn.; mem. Ariz. County Attorneys' and Sheriffs' Assn., Sec.-Treas. 1975, Pres. 1976. *Leisure interests:* tennis, golf, boating. *Address:* 4104 Senate Office Building, Washington, D.C. 20510, U.S.A. (Office). *Telephone:* (202) 224-4521.

DÉDÉYAN, Charles, D. ès L; French university professor; b. 4 April 1910, Smyrna, Turkey; s. of Prince and Princess Dédéyan (née Emma Elisabeth Ekisler); m. Phyllis Sivrisarian 1938; four s. one d.; ed. Coll. Notre Dame de Ste. Croix, Neuilly and Sorbonne; Reader in French Literature, Univ. of Rennes 1942; Prof. of French and Comparative Literature, Univ. of Lyons 1945; Prof. of Comparative Literature at the Sorbonne 1949-; Sec.-Gen. Int. Fed. of Modern Languages and Literature 1946-54; Dir. Inst. of Comparative Modern Literature, Sorbonne 1955-68, 1971; ed. of Encyclopédie permanente Clartés 1961-, and Revue des Etudes Gaulliennes. *Publications:* La sophonisbe de Mairet 1945, Montaigne chez ses amis anglo-saxons 1946, Essai sur le journal de voyage de Montaigne 1946, Le journal de voyage de Montaigne 1947, Argile 1947, Studies in Marivaux, Stendhal, Du Fail, Balzac, V. Hugo 1950-53, Le thème de Faust dans la littérature européenne 1954-67, Madame de Lafayette, La nouvelle Héloïse, Stendhal et les Chroniques italiennes 1955, Voltaire et la pensée anglaise 1956, Le "Gil Blas" de La Sage 1956, 1965, Gérard de Nerval et l'Allemagne 1957-59, L'Angleterre dans la pensée de Diderot 1959, Dante en Angleterre 1958-66, "Le Roman Comique" de Scarron 1959, Rilke et la France 1961, L'Influence de Rousseau sur la sensibilité européenne à la fin du XVIIIe. siècle 1961, Stendhal Chroniqueur 1962, Victor Hugo et l'Allemagne 1963, 1965, 1967, L'Italie dans l'oeuvre romanesque de Stendhal 1963, Le cosmopolitisme littéraire de Charles Du Bos 1968-70, Racine et sa "Phèdre" 1968, Le nouveau mal du siècle de Baudelaire à nos jours 1968-72, Une guerre dans le mal des hommes 1971, Chateaubriand et Rousseau 1972, Le cosmopolitisme européen sous la révolution et l'empire 1976, L'Arioste en France 1975-76, Lamartine et la Toscane 1978, Giorgione dans les lettres françaises 1979. *Leisure interest:* fine arts. *Address:* 27 rue de la Ferme, Neuilly-sur-Seine; Manoir de La Motte, 35780 La Richardais, France. *Telephone:* 747-83-84 and 46-21-12.

DEDIJER, Vladimir, DR.IURIS, M.A.; Yugoslav writer; b. 4 Feb. 1914, Belgrade; m. 1st Olga Popović 1943, 2nd Vera Križman 1944; one s. two d.; ed. Belgrade Univ.; Lieut.-Col. in Tito's army, Second World War; Yugoslav Del. to U.N. Gen Assemblies 1945, 1946, 1948, 1949, 1951, 1952; mem. Yugoslav Del. to Peace Conf., Paris 1946; mem. Cen. Cttee. League of Communists of Yugoslavia 1952-54; Prof. of Modern History, Belgrade Univ. 1954-55; defended right of M. Djilas to free speech 1954; expelled from Cen. Cttee. of Leâgue of Communists 1954; sentenced to 6 months on probation 1955; Simon Senior Fellow, Manchester Univ. 1960-62 now Hon. Fellow; Fellow of St. Antony's Coll., Oxford 1962-63; Research Assoc., Harvard Univ. 1963-64; Visiting Prof. Cornell Univ. 1964-65, Mass. Inst. of Technology 1969, Brandeis Univ. 1970-71; Pres. Bertrand Russell's Int. War Crimes Tribunal 1964-; mem. Serbian Acad. of Sciences 1968; Order of Liberation of Yugoslavia. *Publi-*

cations: Partisan Diary 1945, Notes from the United States 1945, Paris Peace Conference 1948, Yugoslav-Albanian Relations 1949, Tito 1952, The Beloved Land 1962, Sarajevo 1963, The Battle Stalin Lost 1969, History of Yugoslavia 1973. *Leisure interests:* ping-pong, fortune-telling. *Address:* Gorkičeva 16/V, Ljubljana, Yugoslavia. *Telephone:* 261-729.

DE DUVE, Christian René, M.D., M.SC.; Belgian scientist; b. 2 Oct. 1917, Thames Ditton, England; s. of Alphonse de Duve and Madeleine Pungs; m. Janine Herman 1943; two s. two d.; ed. Univ. of Louvain; Prof. of Physiol. Chemistry, Univ. of Louvain Medical School 1947-; Prof. of Biochemistry, Rockefeller Univ., New York City 1962-; Pres. Int. Inst. of Cellular and Molecular Pathology, Brussels; mem. Royal Acad. of Medicine (Belgium), Royal Acad. of Belgium, American Chem. Soc., Biochem. Soc., American Soc. of Biol. Chem., Pontifical Acad. of Sciences, American Soc. of Cell Biology, Deutsche Akademie der Naturforsches, Leopoldina, Koninklijke Akademie voor Geneeskunde van België, etc.; Foreign mem. American Acad. of Arts and Sciences; Foreign assoc. Nat. Acad. of Sciences, U.S.A.; Prix des Alumni 1949; Prix Pfizer 1957; Prix Franqui 1960; Prix Quinquennal Belge des Sciences Médicales 1967; Gairdner Foundation Int. Award of Merit (Canada) 1967; Dr. H. P. Heineken Prijs (Netherlands) 1973; Nobel Prize for Medicine 1974. *Leisure interests:* tennis, skiing, bridge. *Address:* 80 Central Park West, New York, N.Y. 10023, U.S.A.; Le Pré St. Jean, 5988 Nethen, Belgium. *Telephone:* (212)-724-8048 (U.S.A.); (010)-866628 (Belgium).

DEEDES, Rt. Hon. William Francis, P.C., M.C.; British fmr. politician and newspaper editor; b. 1 June 1913, Aldington, Kent; m. Evelyn Hilary Branfoot 1942; two s. (one deceased) three d.; ed. Harrow School; M.P. for Ashford (Kent) 1950-74; Parl. Sec., Ministry of Housing and Local Govt. 1954-55; Parl. Under-Sec. Home Dept. 1955-57; Minister without Portfolio (Information) July 1962-64; mem. Advisory Cttee. on Drug Dependence 1967-74; Chair. Select Cttee. on Immigration and Race Relations 1970-74; ed. Daily Telegraph 1975-. *Address:* New Hayters, Aldington, Kent, England. *Telephone:* Aldington 269.

DEER, William Alexander, M.SC., PH.D., F.R.S.; British mineralogist and petrologist; b. 26 Oct. 1910, Manchester; s. of William Deer and the late Davina Cunningham; m. 1st Margaret Marjorie Kidd 1939 (died 1971), 2nd Rita Tagg 1973; two s. one d.; ed. elementary and Central High School, Manchester, and Univs. of Manchester and Cambridge; Lecturer, Univ. of Manchester 1937-39; Senior 1851 Research Fellow 1939-40; Research Fellow, St. John's Coll., Cambridge 1939-47; Demonstrator, Mineralogy Dept., Cambridge Univ. 1946-50; Tutor, St. John's Coll. 1948-50; Prof. of Geology, Manchester Univ. 1950-61; Prof. of Mineralogy and Petrology, Cambridge Univ. 1961-; Master of Trinity Hall, Cambridge 1966-75; Vice-Chancellor, Cambridge Univ. 1971-73; mem. Natural Environment Research Council 1968-71; Pres. Mineralogical Soc. 1968-70; Pres. Geological Soc. 1969-71; Greenland expeditions 1935, 1936, 1953, 1966; Hon. Fellow, St. John's Coll., Cambridge; Trustee, British Museum 1966-75; Daniel Pigeon Prize and Murchison Medal of Geological Soc., London; Bruce Medal of Royal Soc. of Edinburgh. *Publications:* Carsphairn Igneous Complex 1935, Petrology of the Skaergaard Intrusion, East Greenland (with L. R. Wager) 1939, Rock Forming Minerals 5 vols. (with R. A. Howie and J. Zussman) 1962-63, Petrology and Mineralogy of the Kangerdlugssuaq Alkaline Intrusion (with Dr. C. Kempe) 1970. *Leisure interest:* gardening. *Address:* Department of Mineralogy and Petrology, Downing Place, Cambridge (Office); Steading, Church Street, Great Shelford, Cambs., England (Home). *Telephone:* 51741 (Office); Shelford 3671. (Home).

DEES, Bowen Causey, PH.D.; American science administrator; b. 20 July 1917, Batesville, Miss.; s. of John S. and Ida Lea (Causey) Dees; m. Sarah E. Sanders 1937; one d.; ed. Mississippi High Schools, Mississippi Coll., New York Univ.; Graduate Asst., New York Univ. 1937-42, Instructor in Physics 1942-43; Prof. of Physics, Mississippi Coll. 1943-44; Instructor in Electrical Communications, Radar School, Mass. Inst. of Technology 1944-45; Asst. Prof. of Physics, Rensselaer Polytechnic Inst. 1945-47; Physicist to Div. Dir., Scientific and Technical Div., Gen. H.Q., Supreme Commdr. for the Allied Powers, Tokyo 1947-51; Program Dir. for Fellowships, Nat. Science Foundation 1951-56; Deputy Asst. Dir. for Scientific Personnel and Educ. 1956-59, Asst. Dir. 1959-63; Assoc. Dir. for Educ. 1963-64, for Planning 1963-66; Vice-Pres. Univ. of Arizona 1966-68, Provost for Academic Affairs 1968-70; Pres. The Franklin Inst. Feb. 1970-. *Publications:* Fundamentals of Physics 1945; articles in educational and scientific journals. *Leisure interests:* photography, handicrafts. *Address:* The Franklin Institute, 20th and Benjamin Franklin Parkway, Philadelphia, Pa. 19103 (Office); 8208 Seminole Avenue, Chestnut Hill, Philadelphia, Pa. 19118, U.S.A. (Home).

DE FERRANTI, Basil Reginald Vincent Ziani, M.A., C.ENG., F.I.E.E., F.B.C.S.; British business executive; b. 2 July 1930, Alderley Edge, Cheshire; s. of Sir Vincent (q.v.) and Lady de Ferranti (née Wilson); brother of Sebastian Ziani de Ferranti (q.v.); m. 1st Susan Sara Gore, three s.; m. 2nd Simone Nangle, one d.; m. 3rd Hilary Mary Laing; ed. Eton and Trinity Coll., Cambridge; Graduate Apprenticeship Course, D. Napier & Sons, Acton 1953-54; Man. Domestic Appliances, Ferranti Ltd. 1954-57; Dir. of Overseas Operations, Ferranti Ltd. 1957-62; Dep. Man. Dir., Int. Computers & Tabulators Ltd. 1963-64, Man. Dir. ICT 1964-68; Dir. International Computers (Holdings) Ltd. 1968-72; Deputy Chair., Ferranti Ltd. 1972-; M.P. 1958-64; Parl. Sec. Ministry of Aviation July-Oct. 1962; mem. Econ. and Soc. Cttee. of EEC 1973-, Chair. 1976-78; Conservative. *Address:* Ferranti Ltd., Millbank Tower, Millbank, London, S.W.1 (Office); 19 Lennox Gardens, London, S.W.1, England (Home). *Telephone:* 01-834 6611.

DE FERRANTI, Sebastian Ziani; British electrical engineer; b. 5 Oct. 1927, Alderley Edge, Cheshire; s. of Sir Vincent (q.v.) and Lady de Ferranti (née Wilson); brother of Basil Reginald Vincent Ziani de Ferranti (q.v.); m. Mona Helen Cunningham 1953; one s. two d.; ed. Ampleforth Coll.; served 4th/7th Dragoon Guards 1947-49; Brown Boveri, Switzerland and Alsthom, France 1948-50; Transformer Dept., Ferranti Ltd. 1950, Dir. 1954-, Man. Dir. 1958-75, Chair. Feb. 1963-; Pres. BEAMA 1969-70, Manchester Technology Assn. 1972-, Manchester and Region Centre for Educ. in Science, Educ. and Technology 1972-; Chair. Int. Electrical Assn. 1970-72; mem. Nat. Defence Industries Council 1969-; Trustee, Tate Gallery 1971-78; Chair. Civic Trust for the North-West 1978-; Hon. D.Sc. (Salford Univ.); Hon. Fellow, Manchester Univ. Inst. of Science and Technology; Granada Guildhall Lecture 1966; Royal Inst. Discourse 1969; Louis Blériot Lecture, Paris 1970; Faraday Lecture 1970, 71; Hon. D.Sc., Cranfield Inst. of Technology 1973. *Address:* Ferranti Ltd., Hollinwood, Lancashire (Office); Henbury Hall, Macclesfield, Cheshire, England (Home). *Telephone:* 061-681 2000 (Office).

DE FERRANTI, Sir Vincent Ziani, Kt. M.C., LL.D., D.ENG., F.I.E.E., F.R.A.E.S.; British electrical engineer; b. 16 Feb. 1893; m. Dorothy H. C. Wilson 1919; two s. (Basil and Sebastian, q.v.), three d.; ed. Repton School; served First World War 1914-19; Man. Transformer Dept., Ferranti Ltd. 1921-30, Chair. Ferranti Ltd. 1930-63; Chair. British Electrical and Allied Manufacturers' Assn. 1938-39, Vice-Pres. 1946-57, Pres. 1957-59; served Second World War 1939-40; Hon. Col. 123 Field Engineer Regt., R.E., T.A. 1948-57; Pres. Inst. of Electrical Engineers 1946-47; Chair. British Nat. Cttee. and Chair. Int. Exec. Council of World Power Conf. 1950-62; Pres. British Electrical Power Convention 1949-50; Pres. Television Society 1954-57. *Address:* Henbury Hall, Macclesfield, Cheshire, SK11 9PJ, England (Home). *Telephone:* Macclesfield 22400.

DEFFERRE, Gaston, LIC. EN D.; French lawyer, politician and journalist; b. 14 Sept. 1910; ed. Coll. de Nîmes, Aix.-en-Provence Univ.; legal practice in Marseilles before the second World War, resistance activity in the "Brutus" organization 1940-44; Dir. Le Provençal 1944-; Pres. Municipal Resistance Del., Marseilles 1944; Mayor of Marseilles April-Oct. 1945, May 1953-; Deputy from Bouches du Rhône to Constituent Assemblies 1945-46, Nat. Assembly 1946-58; Sec. of State, Présidence du Conseil Jan.-June 1946; Under-Sec. of State for Overseas France Dec. 1945-Jan. 1946; Minister of the Merchant Marine July 1950-August 1951; Minister of Overseas France Jan. 1950-May 1957; Senator 1959-62; Deputy to Nat. Assembly 1962-; Socialist Candidate for President of the Republic 1964-65; 1969; Officier, Légion d'honneur, Croix de guerre, Rosette de la Résistance, King's Medal for Courage in the Cause of Freedom; fmr. mem. Dir. Cttee. Parti Socialiste (SFIO). *Publication:* Un nouvel horizon. *Address:* Assemblée Nationale, 75007 Paris; Mairie de Marseille, Marseille, France

DE FILIPPO, Eduardo (brother of Peppino De Filippo, (q.v.); Italian playwright, actor producer and impresario; b. 1900; worked as actor, producer and writer with Compagnia Vincenzo Scarpetta and Compagnia Teatro Nuovo; founder of Il Teatro Umoristico I De Filippo 1931-44; continued acting; Dir. and Owner Teatro San Ferdinando, Naples 1953-; many prizes ▬ playwright, actor and producer; Hon. D.Litt. (Birmingham) 1977. *Publications:* Three volumes of about 40 plays, ▬▬ of which in translation, and including Natale in Casa Cupiello, Non ti Pago, Napoli Milionaria, Filumena Marturano, Questi Fantasmi, Le Voci de Dentro, Le Bugie con le gambe lunghe, Sabato, Domenica ▪ Lunedi, Gli Esami Non Finiscono Mai, Il Contratto, Il Monumento; many other one-act plays, operas, TV scripts and films; three books of poetry. *Address:* Via Aquileia 16, Rome, Italy.

DE FILIPPO, Giuseppe (Peppino De Filippo) (brother of Eduardo De Filippo, q.v.); Italian playwright, actor and producer;

b. 24 Aug. 1903; debut 1909, with brother Eduardo founded variety company 1931; Founder and Dir. Italian Theatre Co. of Peppino de Filippo 1944-, Company toured Russia May 1965; writer of over sixty farces, musical Le metamorfosi di un suonatore ambulante, and numerous poems and songs; also appears in films and on television. *Address:* Viale Parioli 96, Rome, Italy.

DE FISCHER REINCHENBACH, Henry-Béat, DR. JUR.; Swiss diplomatist; b. 22 July 1901, Berne; s. of Henry and Marie Caroline de Fischer Reichenbach (née Falck-Crivelli); m. Madeleine de Graffenried 1949; three d.; ed. Stella Matutina, Feldkirch, Univs. of Berne, Fribourg, Munich and Paris; entered Swiss Diplomatic Service 1929, The Hague, Buenos Aires, Warsaw, Riga and Helsinki; Counsellor, Bucharest 1942-47; Asst. to Head of Mission, Cairo 1947-49, Minister, Cairo 1949-54, Addis Ababa 1952-54, Lisbon 1954-59; Amb. to Austria 1959-64; Amb. to United Kingdom 1964-66; Pres. Fondation pour l'histoire des Suisses à l'étranger; Pres. Swiss Asscn. of Knights of the Sovereign Order of Malta; Pres. Comité international exécutif de l'Ordre de Malte pour l'assistance aux lépreux 1970; Pres., Fédération Européenne des Associations contre La Lèpre 1972-73; Head. Del. of Sovereign Order of Malta to Int. Cttee. of Red Cross Diplomatic Conference on Humanitarian Law applicable in Armed Conflicts, Geneva 1974-77; Lecturer on the Sovereign Order of Malta, Int. Law Academy, The Hague 1979-; Camões Prize 1961. *Publications:* Contributions à la connaissance des relations suisses-égyptiennes 1956, Dialogue luso-suisse 1960, Les suisses en Grande-Bretagne au XVIIIe siècle 1968. *Leisure interests:* architecture, history, psychology. *Address:* Le Pavillon, Thunplatz 52, 3000 Berne; Clos Soleil, Vufflens-le-Château, (Vaud), Switzerland. *Telephone:* 031-44-15-09 (Berne).

DE FREITAS, Rt. Hon. Sir Geoffrey Stanley, K.C.M.G., P.C.; British barrister, politician, and diplomatist; b. 7 April 1913; s. of Sir Anthony Patrick and Lady de Freitas (née Maud Short); m. Helen Graham Bell 1938; three s. one d.; ed. Haileybury, Clare Coll., Cambridge (Hon. Fellow) and Yale Univ. (Mellon Fellow); Borough Councillor in Shoreditch 1936-39; mem. Gen. Council of the Bar 1939; served Royal Air Force 1940-45; Labour M.P. for Central Nottingham 1945-50, for Lincoln 1950-61, for Kettering 1964-79; Parl. Private Sec. to Prime Minister 1945-46; Under-Sec. of State for Air 1946-50; Under-Sec. of State Home Office 1950-51; Del. to UN Assembly 1949, 1964; Del. to Council of Europe 1951-54; Leader of Del. 1965-70; Pres. Assembly of Council of Europe 1966-69; Del. to NATO Parl. Conf. 1955-60, Treas. 1958-60, Leader of Del. 1965-66, 1974-, Pres. 1976-78; Chair. Labour Party Housing Cttee. 1951-54, Air Cttee. 1955-60, Agriculture Cttee. 1960-61, Defence Cttee. 1964-74, Labour Cttee. for Europe 1964-72, Select Cttee. on Overseas Devt. 1974-; mem. Select Cttee. on Privileges 1964-66; High Commr. in Ghana 1961-63, in Kenya 1963-64; mem. European Parl. (Vice-Pres.) 1975-79; Pres. North Atlantic Assembly 1976-78; Chair Soc. Labour Lawyers 1956-58; Dir. Laporte Industries Ltd. 1968-78. *Address:* 23 Highsett, Hills Road, Cambridge, England. *Telephone:* Cambridge 58477 (Home).

DEGA, Wiktor, M.D.; Polish surgeon, orthopaedist and educator; b. 7 Dec. 1896, Poznań; s. of Wiktor and Zofia D.; m. Maria Zelewska 1928; one s. two d.; ed. Berlin, Warsaw and Poznań Univs.; Asst.-Resident, Orthopaedic Clinic of Poznań Univ. 1924-30; Chief Asst., Orthopaedic Inst., Poznań 1930-38; Head Orthopaedic Dept. Municipal Hosp., Bydgoszcz 1938-39; Head Children's Surgery Dept., Karol and Maria Hosp., Warsaw 1940-45; Dir. Orthopaedic Clinic, Univ. and Medical Acad., Poznań 1946-67, Prof. Emer. 1967-; mem. Presidium All-Polish Cttee. of Nat. Unity Front June 1971-;Chair. Polish Soc. for Fight against Disablement, until 1974, Hon. Chair 1974-; mem. Polish Acad. of Sciences, Vice-Chair. Cttee. for Rehabilitation and Adaptation of Man 1972-; mem. Int. Soc. of Orthopaedics and Traumatology, Int. Soc. of Surgeons, Fed. German Orthopaedic Asscn.; Hon. mem. Austrian, Czechoslovak, Finnish, French, G.D.R., Hungarian, Soviet, Polish, Yugoslav, Bulgarian Soc. of Orthopaedics and Traumatology, Polish Soc. of Rheumatology, Polish Medical Soc., Polish Medical Alliance U.S.A.; corresp. mem. American Acad. of Orthopaedic Surgery, Italian Soc. Orthopaedics and Traumatology; foreign mem. French Acad. Surgeons; fmr. Expert on Rehabilitation Affairs WHO; Dr. h.c. Medical Acad., Poznań, Cracow, Wrocław, Lodz and Halle-Wittenberg; Prof. Emer. 1976; State Prizes 1951, 1968; Albert Lasker Prize 1966; Alfred Jurzvkowski Award, U.S.A. 1973; order of Builders of People's Poland, Officer's and Commdr.'s Cross with Star of Order Polonia Restituta, Order of Banner of Labour (1st Class), Medal of Chief Cttee. for Physical Culture and Tourism 1977 and other awards. *Publications:* numerous articles in professional journals. *Leisure interests:* travelling, music. *Address:* Ul. Dzierżyńskiego 135, 61-545 Poznań, Poland (Home). *Telephone:* 333-366

DE GAAY FORTMAN, Wilhelm Friedrich; Netherlands politician; b. 8 May 1911, Amsterdam; s. of Bastiaan and Elisabeth (Nolte) de Gaay Fortman; m. Margaretha Titia Hillegonda Woltjar 1936; two s. three d.; ed. Gymnasium Dordrecht, Reformed Gymnasium, Amsterdam, and Free Univ. Amsterdam; Special agricultural Office, Ministry of Econ. Affairs 1934-38; with Ministry of Social Affairs, later Head Industrial Relations Div. 1938-47; Principal, Nat. Protestant Trade Union Cadre Training Centre 1948-72; Prof. of Civil Law and Labour Law, Free Univ. of Amsterdam 1947, Rector 1962-63, 1965-72; Chamberlain (Extraordinary) to the Queen 1955; mem. Parl. (First Chamber) 1960-73, 1977-, Second Vice-Chair. First Chamber 1969; Party Leader in Chamber 1971; Minister for Home Affairs 1973-77; mem. Royal Comm. on Civil Law 1947, European Comm. of Human Rights 1965, Vice-Chair. 1972; mem. Board Netherlands Org. for the Advancement of Fundamental Research (ZWO) 1960-73; numerous church activities; Knight, Order of Netherlands Lion 1959, Commdr. Order of Orange-Nassau 1972; Medal for Energy and Ingenuity, Order of the House of Orange 1974. *Publications:* De onderneming in het arbeidsrecht 1936, De arbeider in de nieuwe samenleving 1952, De vakbeweging 1954, Recht doen 1972. *Address:* Zuidwerfplein 7, 2594 CV The Hague, Netherlands. *Telephone:* 070-850750.

DE GALE, Sir Leo Victor, G.C.M.G., C.B.E.; Grenadan administrator; b. 28 Dec. 1921, St. Andrew's; s. of George Victor and Marie Leonie de Gale; m. Brenda Mary Helen Scott; five s. two d.; ed. Grenada Boys' Secondary School, Univ. of St George Williams, Montreal, Canada; Chair., mem. Public Service Comm. 1960-74; mem. Judicial and Legal Services Comm. 1970-73; Chair. Grenada Cadets Comm. Board 1971-74; Gov.-Gen. of Grenada 1974-78; Chair. and mem. Board of Govs. Grenada Boys' Secondary School 1960-65; mem. Board of Govs., Grenada Teachers' Coll. 1966-67; First Dir. Grenada Branch, British Red Cross Soc. 1960-65; Deputy Chair. Grenada Co-operative Banana Soc. *Leisure interests:* golf, tennis, billiards. *Address:* Woodlands, St. George's, Grenada (Home). *Telephone:* 2401.

DEGAZON, Frederick; Dominican politician and Head of State; Speaker, House of Ass. until 1978; Pres. of Dominica Nov. 1978. *Address:* Office of the President, Roseau, Dominica.

DE GEER, Carl; Swedish diplomatist; b. 4 Jan 1923, Lund; m. Berit Jacoboson 1946; two s.; entered Swedish Foreign Service 1946, posted in Berlin, Paris and Washington 1948-67; Head of Econ. and Commercial Dept., Foreign Office 1970, Deputy Sec.-Gen. 1972; Amb. to the Int. Orgs., Geneva 1975-. *Address:* Swedish Delegation, 9-11 rue Varembé, Case Postale 190, CH-1211 Geneva 20 Switzerland. Ministry for Foreign Affairs, Box 16121, S-103 23 Stockholm, Sweden. *Telephone:* 122-34 36 00 (Switzerland); 08-763 10 00 (Sweden).

DE GEER, Jan Gustaf Gérard; Swedish international official; b. 7 Sept. 1918; Swedish Red Cross Liaison Officer with British Red Cross in Germany 1946, with British Red Cross Comm. for N.W. Europe and Control Comm. for Germany 1947; A.D.C. to Count Bernadotte, Palestine 1948; Chief, Swedish Red Cross Mission to Berlin 1948-49; Chief, Foreign Relations Dept., Swedish Red Cross 1949-56, Acting Sec.-Gen. (ex officio) 1956-57; Sec.-Gen., World Fed. of United Nations Asscns. 1963, now Hon. Treas.; several foreign decorations. *Address:* World Federation of United Nations Associations, Centre International, Geneva (Office); 20 Chemin Colladon, 1211 Geneva, Switzerland (Home).

DEGERBØL, Magnus, DR. PHIL; Danish zoologist; b. 8 July 1895, Sjørring; s. of Jens Hansen Jensen and Mette Sørensen; m. Ellen Marie K. Jürgensen 1924; one s. one d.; ed. Københavns Universitet; Curator of Mammals, Zoological Museum, Univ. of Copenhagen 1924-43, Keeper of Vertebrate Dept. 1943-50; Dir. Quaternary-Zoological Laboratory 1956-66; Univ. of Copenhagen Lecturer Quaternary-Zoology 1950-56, Prof. 1956-66; Pres. Danish Natural History Soc. 1944-49, and Zootopografical Investigations of Denmark 1946-62; Ed. Videnskabelige Meddelelser Dansk Naturhistorisk Forening 1931-44, Danmarks Fauna 1940-46, and Acta Arctica 1943-60; mem. Royal Danish Acad. of Sciences and Letters; Hon. mem. American Soc. of Mammalogists 1962; Corresp. Fellow Arctic Inst. N. America 1967; Knight Order of Dannebrog. *Expeditions:* Blossevilles Coast, East Greenland 1932, Equatoria, Central Africa Expedition 1947, Subantarctic Seas, Galathea Expedition 1952, Andes Mountains 1954, Pres. Danish Thule-Ellesmere Island Expedition 1939-41. *Publications:* The Prehistoric Vertebrates of Denmark 1933-70, Mammals, Fifth Thule Expedition Arctic North America 1935, Mammals of Denmark 1935, Mammalia Zoology of the Faroes 1940, and works on evolution, domestication, Norse culture and Eskimo habitation in Greenland. *Address:* Lions Park, 8131 Birkeröd, Denmark. *Telephone:* 870529.

DE GROOTE, Jacques, M.A. (ECON.); Belgian international finance official; b. 25 May 1927, Klerken; m.; ed. Cambridge and Louvain Univs.; Adviser Nat. Bank of Belgium 1957-65; Adviser to Gov. of Nat. Bank of Zaire 1966-69; Financial Adviser to Belgian Del. to OECD 1965-71; Chief Adviser, Research Dept., Nat. Bank of Belgium 1971-73; Exec. Dir. Int. Bank for Reconstruction and Devt. (World Bank) and Int. Monetary Fund 1973-; Knight Order of Leopold (Belgium). *Address:* 700 19th Street, N.W., Washington, D.C. 20431, U.S.A. (Office); 11 avenue de Mercure, 1180 Brussels, Belgium (Home). *Telephone:* (202) 393-6362 (Office).

DEGTYAR, Dmitriy Danilovich; Soviet diplomatist and politician; b. 1904; ed. Moscow Planning Inst. Trade Union activity 1935-38; State Exec. 1938-39; Chair. State Planning Cttee. of the R.S.F.S.R. 1939-47; Vice-Chair. U.S.S.R. State Planning Comm. 1949-53; Vice-Chair. Council of Ministers of the R.S.F.S.R. 1939-47; mem. later Deputy Chair. State Cttee. for Foreign Econ. Affairs 1957-62; Amb. to Guinea 1962-64; Deputy Chair. State Cttee. for Foreign Econ. Affairs 1965-. *Address:* State Cttee. for Foreign Economic Affairs, Ovchinnikovskaya nab. 18/1, Moscow, U.S.S.R. (Office).

DE HAVILLAND, Olivia Mary; American (b. British) actress; b. 1 July 1916, Tokyo, Japan; d. of Walter Augustus de Havilland and Lilian Augusta (née Ruse); m. 1st Marcus Aurelius Goodrich 1946 (divorced 1953), one s.; m. 2nd Pierre Paul Galante 1955 (separated 1963), one d.; ed. Saratoga Grammar School, Notre Dame Convent, Los Gatos Union High School; stage debut in A Midsummer Night's Dream 1934, film debut in screen version 1935; Pres. Cannes Film Festival 1965; on lecture tours in U.S.A. 1971-78; mem. Board of Trustees of American Coll. in Paris 1970-71, of American Library in Paris 1974-78; mem. Altar Guild, Lay Reader, American Cathedral in Paris; numerous awards include: Acad. Award 1946, 1949; New York Critics Award 1948, 1949; Look Magazine Award 1941, 1946, 1949; Venice Film Festival Award 1948; Filmex Tribute 1978; American Acad. of Achievement Award 1978. *Films include:* Captain Blood 1935, Anthony Adverse 1936, The Adventures of Robin Hood 1938, Gone with the Wind 1938, Hold Back the Dawn 1941, Princess O'Rourke 1942, To Each His Own (Acad. Award) 1946, The Dark Mirror 1946, The Snake Pit 1947, The Heiress (Acad. Award) 1949, My Cousin Rachel 1952, Not as ■ Stranger 1954, The Proud Rebel 1957, The Light in the Piazza 1961, Lady in ■ Cage 1963, Hush Hush Sweet Charlotte 1964, The Adventurers 1968, Airport '77 1976, The Swarm 1978; *Plays:* Romeo and Juliet 1951, Candida 1951-52, A Gift of Time 1962; *TV:* Noon Wine 1966, Screaming Woman 1972, Roots, The Next Generations 1979. *Publication:* Every Frenchman Has One 1962. *Leisure interests:* needlepoint, painting, photography. *Address:* B.P. 156, 75764 Paris Cedex, France.

DEHNKAMP, Willy; German politician; b. 22 July 1903, Hamburg; s. of Arthur and Anna Dehnkamp (née Griebel); m. Helene Kömmpel 1927; two s.; ed. elementary school; Apprenticeship as locksmith 1918-22; mem. Social Democrat Party 1920-; mem. Blumenthal County Council 1929-33; persecuted by Nazis 1933-36; Army Service 1942-45; Prisoner-of-War in U.S.S.R. 1945-48; Municipal Official Bremen-Blumenthal 1949-51; Senator for Educ., Bremen 1951-65, Pres. of Senate and Mayor of Bremen 1965-67; Deputy mem. Bundesrat 1952-63, mem. 1963-67; Pres. Standing Conf. of Ministers for Cultural Affairs of German Federal Republic 1954-55, 1962-63; mem. German Scientific Council 1957-65, German Educ. Council 1968-72, Exec. Board of German UNESCO Comm. 1968-77; Chair. Gerhard-Marcks-Stiftung, Bremen 1970-77; mem. Bd. Deutschen Schiffahrts museums in Bremerhaven 1970-78; Ehrenmedaille in Gold der Freien Hansestadt Bremen 1973. *Leisure interest:* gardening *Address:* 282 Bremen-Blumenthal, Rönnebeckerstrasse 87a, Federal Republic of Germany. *Telephone:* 60-22-86.

DE HOFFMANN, Frederic, M.A., PH.D.; American scientist and industrialist; b. 8 July 1924, Vienna, Austria; s. of Otto and Marianne de Hoffmann; m. Patricia Lynn Stewart 1953; no c.; ed. Harvard Univ.; Scientific mem. Los Alamos Lab., U.S. Atomic Energy effort 1944-45, Alt. Asst. Dir. 1950-51; founded Gen. Atomic Div. of Gen. Dynamics Corpn. 1955; founded Gen. Atomic Europe 1960; Vice-Pres. and Senior Vice-Pres. Gen. Dynamics 1955-67, also Pres. Gen. Atomic and Gen. Atomic Europe; Pres. Gulf Gen. Atomic and Gulf Gen. Atomic Europe 1967-79; Vice-Pres. Gulf Oil Corpn. 1967-69; Chancellor, The Salk Inst. 1970-72, mem. Board 1970-, Pres. 1972-; mem. Board, Gulf Mineral Resources Co. 1968-73, S. Calif. First Nat. Bank 1971-75; Pres. Conf. on future of Science and Technology, Govt. of Austria 1972; trustee various academic institutions, etc.; Grand Silver Cross of Merit and Cross of Science and Arts (Austria), Grand Silver Decoration of Merit, Grand Gold Decoration of Merit. *Leisure interests:* skiing, photography. *Address:* The Salk Institute, P.O. Box 1809, San Diego, Calif, 92112 (Office); 9736 La Jolla Farms Road, La Jolla, Calif. 92037, U.S.A. Telephone: 714-453-4100 (Office); 714-453-0454 (Home).

DEIF, Nazir; Egyptian international finance official; b. 4 March 1923; m.; four c.; ed. Univs. of Cairo and Chicago; Mem. Expert roup on Industrialization of U.A.R. 1953-54; Dir. Econ. Planning omm. 1957-58, Dir.-Gen. 1958-61; Under-Sec. Ministry of Planning 1961-64; Gov. IMF 1964-66; Ministry of Treasury 1964-68; mem. UN Cttee. for Devt. Planning 1966; Consultant UN Industrial Devt. Org. 1968; Adviser Arab Centre for Industrial Devt. 1969; Prof. Inst. of Statistical Studies and Research, Cairo Univ. 1968; Special Sequestrator American Univ. in Cairo 1969-70; Exec. Dir. IMF 1970-76. *Address:* c/o International Monetary Fund, 19th and H Streets, N.W., Washington, D.C. 20431, U.S.A.

DEIGHTON, Len; British author; b. 1929, London. *Publications:* The Ipcress File, Horse under Water 1963, Funeral in Berlin 1964, Billion Dollar Brain 1966, An Expensive Place to Die 1967, Action Cook Book, Où est le Garlic, Len Deighton's London Dossier (guide book), Only When I Larf 1968, Bomber 1970, Declarations of War (short stories) 1971, Close-Up 1972, Spy Story 1974 (film 1976), Yesterday's Spy 1975, Twinkle, Twinkle, Little Spy 1976, Catch ■ Falling Spy 1976, Fighter: the True Story of the Battle of Britain 1977, SS 1978. *Address:* c/o Jonathan Cape Ltd., 30 Bedford Square, London, W.C.1, England. *Telephone:* 01-636 9395.

DELNOFF, Rolf, B.SC.(ECON.); Swedish business executive; b. 6 Feb. 1917, Örebro, Sweden; s. of Josef and Elisabeth Deinoff; m. Britta Danielson 1938; two s. one d.; ed. Higher Commercial School, Örebro, Stockholm School of Economics, and Inst. of Business Studies; Asst. Dept. of Prices for Mil. Deliveries, Nat. Swedish Industry Comm. 1941-43; Financial Man. AB Pumpindustri, Mölndahl 1943-47; Stockholms Enskilda Bank 1947-67, Deputy Man. Dir. 1960-67; Deputy Man. Dir. Svenska Tändsticks Aktiebolaget (Swedish Match Co.), Jönköping Jan.-June 1968, Man. Dir. 1968-77; Chair. Vice-Chair. and mem. of the Board of a number of Swedish and foreign companies; Commdr. Royal Order of Vasa; Grand' Ufficiale dell' Ordine al Merita della Repubblica Italiana. *Leisure interest:* golf. *Address:* Investment AB Collector, Erik Dahlbergsallé 15, 115 24 Stockholm (Office); Strandvägen 27, 114 56 Stockholm, Sweden (Home). *Telephone:* 08/618791 (Office); 08/633435 (Home).

DE JAGER, Cornelis; Netherlands astronomer; b. 29 April 1921, Texel; s. of Jan de Jager and Cornelia Kuyper; m. Duotsje Rienks 1947; two s. two d.; ed. Univ. of Utrecht; Asst. in theoretical physics, Univ. of Utrecht 1946; Asst. in Astronomy, Univ. of Leiden; Asst. Astron. Inst., Utrecht; Assoc. Prof. of Stellar Astrophysics, Univ. of Utrecht 1957, Ordinary Prof. in Gen. Astrophysics 1960-; Extraordinary Prof., Univ. of Brussels and founder, Space Research Lab., Utrecht Astron. Inst. 1961; Man. Dir. Utrecht Astron. Inst. 1963-78, Chair. Inst. Council 1978-; Asst. Gen. Sec. Int. Astron. Union 1967-70, Gen. Sec. 1970-73; Pres. Netherlands Astron. Comm. 1975–; mem. Exec. Council Cttee. on Space Research (COSPAR) 1970-72, Pres. 1972-78; mem. Exec. Council, ICSU 1970-, Vice-Pres. 1976-78; Aggregate Prof., Univ. of Brussels 1970-; mem. Royal Netherlands Acad. of Art and Sciences, Royal Belgium Acad. of Art and Sciences; Assoc. mem. Royal Astron. Soc. (London); Corresp. mem. Soc. Royale de Science, Liège; mem. Int. Acad. Astronautics; Dr. h.c. Univ. of Wrocław, Poland 1975, Observatoire de Paris 1976. *Publications:* About 200 publications including: The Hydrogen Spectrum of the Sun 1952, Structure and Dynamics of the Solar Atmosphere 1959, The Solar Spectrum 1965, Solar Flares and Space Research (with Z. Svestka) 1969, Sterrenkunde 1969, Reports on Astronomy 1970, 1973, Highlights in Astronomy 1970, Ontstaan en Levensloop van Sterren (with E. van den Heuvel), 2nd edn. 1973, Image Processing Techniques in Astronomy (with H. Nieuwenhuyzen) 1975. *Leisure interests:* wild life, bird observation, cinematography, participation in cross-country races. *Address:* Utrecht, Observatory, Zonnenburg 2; Space Research Laboratory Beneluxlaan 21, Utrecht (Offices); Zonneburg 3512 NL Utrecht, Netherlands (Home). *Telephone:* 312841, 937145 (Offices); 314253 (Home).

DEJEAN, Maurice; French diplomatist; b. 30 Sept. 1899, Clichy; m. Marie-Claire Giry 1953; one d.; ed. Sorbonne; served Ministry of Foreign Affairs 1926, Berlin 1929-39; Chef de Cabinet (for Foreign Affairs) to Daladier and Reynaud 1939-40; collaborated with Coulondre in editing French Yellow Book 1940; Nat. Commr. for Foreign Affairs French Nat. Cttee. 1941-42; Diplomatic Adviser to French Cttee. of Nat. Liberation 1942-43; Minister Plenipotentiary to Allied Governments in London 1943-44; Gen. Dir. for Political Affairs Foreign Office 1944-45; Del. San Francisco Conf. 1945, UN Gen. Assembly N.Y. 1946; French Amb. to Czechoslovakia Dec. 1945-Dec. 1949; French Del. Int. Ruhr Authority May 1949-Feb.

1950; Head of French Mission, SCAP, Tokyo (rank of Amb.) 1950-52; Amb. to Japan 1952-54; Commr.-Gen. in Indo-China 1953-54; Head of Mission to Libyan Govt. 1955; Amb. to U.S.S.R. 1956-64; Ambassadeur de France 1945-; Dir. Shell française 1965-72; Soc. des bains de mer et du Cercle des étrangers de Monaco 1966-73; Pres. Soc. franco-soviétique de coopération industrielle (SOFRACOP) 1966-68; Commdr. Légion d'honneur. *Address:* 110 boulevard de Courcelles, 75017 Paris, France.

DEJMEK, Kazimierz; Polish actor and theatre director; b. 17 May 1924, Kowel; s. of Henryk and Włodzimiera Dejmek; m. 1st Irena Dejmek 1945, 2nd Danuta Dejmek 1954; one s. one d; ed. State Theatrical Acad., Łódź; Actor, Rzeszów, Jelenia Góra Companies 1945; Actor, Teatr Wojska Polskiego 1946-49; Founder and Gen. Dir. Teatr Nowy, Łódź 1949-71; Head, State Theatrical Acad., Łódź 1952-55; Gen. Man. and Artistic Dir., Teatr Naradowy, Warsaw 1961-68; Assoc. Man. Teatr Dramatyczny, Warsaw 1972-74; Gen. Man. and Artistic Dir., Teatr Nowy, Łódź 1974-; numerous decorations. *Principal productions:* Winkelried's Day (Andrzjewski and Zagórski) 1956, Measure for Measure, Julius Caesar (Shakespeare) 1956, 1960, Darkness Covers the Earth (Andrzejewski) 1957, Agamemnon (Aeschylus), Electra (Euripides), The Frogs (Aristophanes) 1961, 1963, The Story of the Glorious Resurrection of Our Lord (Nicolai of Wilkowiecko) 1961, 1962, 1975, Word about Jacob Szela (Bruno Jasieński) 1962, The Life of Joseph (Nicolai Rej) 1965, Kordian (Słowacki) 1965, Der Stellvertreter (Hochhuth), Dziady (A. Mickiewicz) 1967, Uncle Vanya (Chekhov) 1968, Jeux de Massacre (Ionesco) 1971, Baths and Bed-Bug (Mayakovsky) 1971, Trial Against Nine from Catonsville (Berrigan) 1971, Controller (Gogol) 1971, La Passione 1972, Acting About Resurrection 1972, opera Henry VI at the Chase (Karol Kurpiński) 1972, Philemon (Biedermann) 1973, opera Magic Flute (Mozart) 1973, Electra (Giraudoux) 1973, opera Devils of Loudun (Penderecki) 1974, Operetta (Gombrowicz) 1975, Dialogus de Passione 1975, Garbus (Mrożek) 1976, Patna (J. Conrad) 1976, Wielki Fryderyk (A. Nowaczyński) 1977, Cień (E. Szwarc, W. Młynarski) 1977, Die Frist (Dürrenmatt) 1977, Obecność (Słonimski) 1977, opera Franc-tireur (Carl Maria von Weber) 1978, Revange (Fredro) 1978, Vatzlav (Mrożek) 1978, Krakowiacy y górale (Bogusławski) 1978. *Address:* Ul. Rajców 8, 00-220 Warsaw, Poland.

DE JONGH, Theunis Willem, M.SC., M.A., D.COM.; South African banker; b. 15 Dec. 1913, Gouda; s. of Petrus Johannes de Jongh and Rachel E. Wium; m. Anna F. Visser 1914; three s. two d.; ed. Stellenbosch, Pretoria and Columbia Univs.; Chief Statistician, Industrial Devt. Corpn. of S. Africa 1942-45; Head Econ. Research, S. African Reserve Bank 1946-62, Exec. Asst. 1962-67, Gov. and Chair. 1967-; Chair. Nat. Finance Corpn. of S. Africa 1967-; Alt. Gov. IBRD, IFC and IDA 1967-72, Gov. 1972-; mem. of Prime Minister's Econ. Advisory Council 1967-; Decoration for Meritorious Service, S. Africa 1975. *Publication:* An Analysis of Banking Statistics in South Africa 1947. *Leisure interests:* golf, tennis; keen follower of rugby and cricket. *Address:* South African Reserve Bank, P.O. Box 427, Pretoria 0001 (Office); 134 Eastwood Street, Arcadia, Pretoria 0002, South Africa (Home). *Telephone:* 41-3011 (Office); 74-2231 (Home)

DEKEYSER, Willy Clément, D.SC.; Belgian university professor; b. 16 Feb. 1910, Ostend; s. of Georges and Eugenie Vanderputte; m. Marie Madeleine Vandenberge 1943; one d.; ed. Albert School and Athénée Royal, Ostend, Ghent Univ.; Teacher, Athénée Royal, Ghent 1931; Asst. Ghent Univ. 1938, Lecturer 1944; Prof. of Crystallography 1948-; mem. Scientific and Technical Cttee. Euratom, Advisory Panel NATO, Flemish Acad. of Sciences; mem. Board Soc. Belge d'Optique et Instruments de Précision (OIP); Croix de guerre, Commdr. Ordre de Léopold. *Publications:* Les dislocations et la croissance des cristaux (with S. Amelinckx) 1955, The Structure and Properties of Grain Boundaries (with S. Amelinckx) in Solid State Physics Vol. 8, Reactivity of Solids (with W. P. Gomes) in Solid State Chemistry Vol. 4, 1974. *Leisure interest:* French literature. *Address:* Laboratorium voor Kristallografie en Studie van de Vaste Stof, Krijgslaan 271, B-9000 Ghent (Office); Rijsenbergstraat 57, B-9000 Ghent, Belgium (Home). *Telephone:* 091-22-57-15.

DE KIEWIET, Cornelis Willem, M.A., PH.D., LL.D., L.H.D., LITT.D.; American (b. Netherlands) historian; b. 21 May 1902; ed. Jeppe High School, Johannesburg, and Univs. of Witwatersrand, London, Paris and Berlin; Teaching Asst. in History, Univ. of Witwatersrand 1923; Teacher of Afrikaans and History, Prince Edward High School, Salisbury, S. Rhodesia 1923-25; Asst. Prof. of History, State Univ. of Iowa 1929-35, Assoc. Prof. 1935-37, Prof. 1937-41; Prof. of Modern European History, Cornell Univ. 1941, Dean of Coll. of Arts and Sciences 1945-48, Provost 1948-49, acting Pres., Cornell Univ. 1949-51; Pres. Rochester Univ. June 1951-61, Emer. 1961-; Special Consultant to Navy Dept. and Dir. of Army Specialized Training Programmes in Area and Language, Cornell Univ. 1943-45; Sec.-Treas. Assen. American Univs. 1951-54, Vice-Pres. 1954-56, Pres. 1956-58; Council Higher Educ., N.Y. State 1958-; Nat. Acad. of Sciences Advisory Comm. for Africa 1958-; Comm. for Education Liaison between U.S. and Sub-Sahara Africa 1959-; Special Cttee. on Sponsored Research A.E.E. 1958. *Publications:* British Colonial Policy and the South African Republics 1929, The Imperial Factor 1937, A History of South Africa 1941, The Anatomy of South African Misery 1956; collaborator in many works, including Cambridge History of the British Empire. *Address:* 22 Berkeley Street, Rochester, N.Y., U.S.A.

DE KLERK, Albert; Netherlands organist and composer; b. 4 Oct. 1917; ed. Amsterdamsch Conservatorium under Dr. Anthon van der Horst; Organist St. Joseph's Church, Haarlem 1933-; City Organist Haarlem 1956-; Dir. of Catholic Choir, Haarlem 1946-; Prof. of Organ and Improvization, Amsterdamsch Conservatorium 1964-; numerous gramophone records for Telefunken, C.B.S., E.M.I.-Bovema, etc.; Prix d'Excellence, Amsterdam 1941, Prix du Disque, Prix Edison (for Die Kleinorgel) 1962. *Compositions:* several works for organ including three concertos for organ and orchestra, chamber-music, and liturgical music (seven masses). *Address:* Crayenesterlaan 22, Haarlem, Netherlands. *Telephone:* 023-280654.

DE KLERK, Frederik Willem, LL.B.; South African politician; b. 18 March 1936, Johannesburg; s. of J. de Klerk; m. Marike Willemse 1959; two s. one d.; ed. Monument High School, Krugersdorp, Potchefstroom Univ.; in law practice 1959-72; Prof. of Administrative Law, Potchefstroom Univ. 1972; mem. House of Ass. 1972; Minister of Posts and Telecommunications and Social Welfare and Pensions 1978, subsequently Minister of Posts and Telecommunications and of Sport and Recreation Oct. 1978-; mem. Nat. Party. *Publications:* various articles and brochures for the Nat. Party Information Service. *Leisure interests:* golf, tennis. *Address:* P.O. Box 616, Pretoria 0001, South Africa. *Telephone:* 4191911.

DE KOONING, Willem; American (b. Netherlands) artist; b. 24 April 1904, Rotterdam; ed. Rotterdam Acad. of Fine Arts; display work, dept. stores in the Netherlands 1920-24; worked in Belgium 1924-25, America 1926, housepainter, muralist, New York 1926, Mural, Hall of Pharmacy, New York World's Fair 1939; Teacher, Black Mountain Coll. 1948, Yale 1950-51; One-man shows Egan Gallery 1948, 1950, Sidney Janis Gallery 1953, 1956, 1959, 1962; Knoedler & Co., Manhattan 1967, 1969; retrospective exhbn. at Tate Gallery, London 1968; pictures in Museum of Modern Art, New York, St. Louis Museum, Chicago Art Inst. and in private collections. *Address:* Woodbine Drive, The Springs, East Hampton, N.Y. 11973, U.S.A.

DELACOMBE, Sir Rohan, K.C.M.G., K.C.V.O., K.B.E., C.B., D.S.O., K.ST.J.; British administrator and fmr. army officer; b. 25 Oct. 1906, Malta; s. of the late Lieut.-Col. and Mrs. A. Delacombe; m. Eleanor J. Foster, C.ST.J. 1941; one s. one d.; ed. Harrow, Royal Mil. Acad., Sandhurst, and Staff Coll., Camberley; served in Egypt, North China, India, active service Palestine 1937-39, France, Norway, Normandy, Italy, South-East Asia 1939-45; Deputy Mil. Sec., War Office 1953-55; Major-Gen. 1956; G.O.C., Berlin 1959-62; retd. 1962; Gov. Victoria, Australia 1963-74; Administrator of Australia on four occasions; Pres. Royal British Legion, Wiltshire; mem. Victoria Promotion Council (Europe); Freeman of Melbourne; Hon. LL.D. Univs. of Melbourne and Monash. *Leisure interests:* normal. *Address:* Shrewton Manor, Salisbury, Wilts., England. *Telephone:* Shrewton 253.

DE LA FLOR VALLE, Gen. Miguel; Peruvian army officer and politician; b. 11 March 1924, Ferreñafe, Lambayeque; s. of Guillermo E. De la Flor Zevallos and Manuela M. Valle Urtega; m. María L. Illich Remotti 1959; two s. two d.; ed. Colegio Nacional San José de Chiclayo, Escuela Militar Chorrillos, Escuela de Infantería, Escuela Superior de Guerra and Ecole Supérieure de Guerre, France; entered army 1942, commissioned 1946, Gen. 1971; Pres. Board of Dirs. Compañia Peruana de Teléfonos 1970, 1971; Minister of Foreign Affairs 1972-76; Orden Militar de Ayacucho, Cruz del Mérito Militar and decorations from Belgium and Argentina. *Leisure interests:* badminton, football. *Address:* c/o Ministerio de Relaciones Exteriores, Azangaro 359, Lima, Peru.

DE LA FUENTE Y DE LA FUENTE, Licinio; Spanish politician and lawyer; b. 7 Aug. 1923, Noez, Toledo; m.; six c.; ed. Univ. complutense de Madrid; called to the Bar 1949; lawyer in Cuidad Real 1950-54, Segovia 1954-56; Civil Gov. of Caceres 1956-60; lawyer, Supreme Court 1963-65; Nat. Adviser to Toledo Movement 1961-64, Chief of Secr. of Nat. Council of Toledo Movement 1964-68, First Sec. 1968-69; Dir.-Gen. Servicio Nacional de Cereales

1965-68; [illegible] Parl. 1964-71; Minister of Labour 1969-75, Third Vice-Pres. Council of Ministers 1973-75. *Address:* c/o Ministerio de Trabajo, Madrid, Spain (Office).

DELAGE, Emile Jean-Baptiste, D. ès L.; French university professor; b. 23 July 1890, Paris; s. of Emile Jules and Emma (née Schmieder) Delage; m. Marguerite Martin 1921 (died 1970); ed. Univ. of Paris; Lecturer, Faculty of Letters, Bordeaux 1929-31, Prof. 1931-32, Prof. of Greek Language and Literature 1932-46; Dean of Faculty of Letters 1941-46; Rector Académie de Clermont-Ferrand 1946-50; Rector Acad. de Bordeaux 1950-60, Hon. Rector 1960-; served in First and Second World Wars; Croix de Guerre, Officier de la Légion d'honneur, Commdr. des Palmes académiques. *Publications:* Biographie d'Apollonios de Rhodes 1930, La géographie dans les "Argonautiques" d'Apollonios de Rhodes 1930, Les "Argonautiques" d'Apollonios de Rhodes (trans. Vol. I 74, Vol. II 78). *Leisure interest:* music (violin). *Address:* 100 rue Chevalier, Bordeaux, France. *Telephone:* 48-75-82.

DE LA MARE, Sir Arthur, K.C.M.G., K.C.V.O.; British diplomatist; b. 15 Feb. 1914, Jersey; s. of Walter de la Mare and Laura (née Syvret); m. Katherine Elisabeth Sherwood 1940; three d.; ed. Victoria Coll., Jersey, and Pembroke Coll., Cambridge; Diplomatic Service, served Tokyo and Seoul 1936-42, Washington 1942-43; Foreign Office 1943-47; Consul, San Francisco 1947-50; First Sec., Tokyo 1950-53; Counsellor, Foreign Office 1953-56, Washington 1956-60; Head of Far Eastern Dept., Foreign Office 1960-63; Amb. to Afghanistan 1963-65; Asst. Under-Sec. of State, Foreign Office 1965-68; High Commr. in Singapore 1968-70; Amb. to Thailand 1970-73; Int. Business Consultant 1975-; Chair. Anglo-Thai Soc. 1976-; Chair. Royal Soc. for Asian Affairs 1978-. *Leisure interests:* gardening, walking. *Address:* The Birches, Onslow Road, Burwood Park, Walton-on-Thames, Surrey, KT12 5BB, England (Home). *Telephone:* Walton-on-Thames 20978 (Home).

DE LA MARE, Richard Herbert Ingpen, M.A.; British publisher; b. 4 June 1901; s. of Walter de la Mare, O.M., C.H. (poet) and Constance Elfrida Ingpen; m. Amy Catherine Donaldson 1930, three s. one d.; ed. Oxford Univ.; Faber and Gwyer Ltd. 1925-29, Dir. 1927; Dir. Faber & Faber Ltd. 1929, Vice-Chair. 1946, Chair. 1960-71; Pres. Faber & Faber (Publishers) Ltd. 1971-. *Leisure interests:* listening to music, oriental art, gardening. *Address:* Faber & Faber Ltd., 3 Queen Square, London, W.C.1 (Office); Much Hadham Hall, Hertfordshire, England (Home). *Telephone:* Much Hadham 2663 (Home).

DE LANCEY, William J.; American steel executive; b. 2 June 1916, Chicago, Ill.; m. Sally (née Roe) 1940, ed. Elgin High School, Michigan Univ. and Law School; navy service in World War II, Lieut, Junior Grade, commendation ribbon; with Cravath, Swaine and Moore law firm; joined Repub. Steel Corpn. as Asst. Counsel 1952, Asst. Gen. Counsel 1954-59, Gen. Counsel 1959-, Vice-Pres. 1961-71, mem. Bd. of Dirs. 1968-, Exec. Vice-Pres. 1971-73, Pres. 1973-, Chief Exec. Officer Feb. 1974-; Dir. Cleveland Trust Co., Standard Oil Co., Sherwin-Williams Co., Ohio Bell Telephone Co., Reserve Mining Co., Metropolitan Life Insurance Co., Beatrice Pocahontas Co. *Address:* Republic Steel Corporation, Republic Building, Cleveland, Ohio 44104, U.S.A. (Office).

DELAUNEY, Maurice Charles Jules, B. EN D.; French diplomatist; b. 31 July 1919, la Hay-du-Puits, Manche; ed. Collège de Saint-Lô, Collège Chaptal, Paris; Chef de subdivision et de région, Cameroon 1945-54; Chef de Cabinet civil of the High Comm., Madagascar 1954-55; Chargé de Mission, Ministry of French Overseas Depts. and Territories 1955-56; Chef de région, Bamileke, Cameroon 1956-58; Chargé de Mission to the Minister of State for Aid and Co-operation 1959; First Counsellor, High Comm. to Dahomey (now Benin) 1959-60; Resident Commr. of France in the New Hebrides 1960-65; Amb. to Gabon 1965-72, Minister Plenipotentiary 1969; Amb. to Madagascar 1972-75, to Gabon and São Tomé and Príncipe 1975-; Breveté de l'Ecole Nationale de France d'Outre-mer et du Centres des Hautes Etudes d'Administration musulmane; Officier, Légion d'honneur, Croix de guerre, Officier du Mérite agricole, Chevalier de l'Etoile noire, Grand Croix de l'Etoile équatoriale, Grand Officer of Merit (Spain), Commdr. dell'Ordine al Merito (Italy), Commdr. of Merit of the Sovereign Order of Malta. *Address:* Ambassade de France, B.P. 2125, Libreville, Gabon; 150 rue de Rennes, 75006 Paris, France (Home).

DE LAURENTIIS, Dino; Italian film producer; b. 8 Aug. 1919, Torre annunziata, Naples; s. of Aurelio and Giuseppina (née Salvatore) De Laurentiis; m. Silvana Mangano 1949; one s. three d.; founded Real Ciné, Turin 1941; Exec. Producer Lux Film 1942; acquired Safir Studios and founded Teatri della Farnesina 1948; co-founder Ponti-De Laurentiis S.p.A. 1950; numerous awards and prizes include Oscars for La Strada 1957, Le Notti di Cabiria 1958, Golden David Awards for Le Notti di Cabiria 1958, The Tempest 1959, Silver Ribbon (Italian Film Critics) for La Strada 1954, Venice Silver Lion for Europa 51 1952. *Films produced include:* La Figlia del Capitano, Il Bandito, Molti Sogni per la Strada, Anna, Bitter Rice, La Strada, Le Notti di Cabiria, Ulysses, War and Peace, The Tempest, This Angry Age, Europa 51, The Gold of Naples, The Great War, Five Branded Women, I Love, You Love, The Best of Enemies, Barabbas, To Bed or not to Bed, The Bible, The Three Faces of a Woman, Barbarella, A Man Called Sledge, Waterloo, The Valachi Papers, Serpico, Mandingo, Lipstick 1976, Buffalo Bill and the Indians 1976, Drum 1976, King Kong 1976. *Address:* Viale Libano 28, Rome; Casella Postale 10780, Rome, EUR, Italy (Office). *Telephone:* 5915551 (Office).

DELAY, Jean, DR. en MED., DR. ès L.; French psychologist; b. 14 Nov. 1907; ed. Paris Univ.; Prof. of Mental Diseases and Encephalography, Dir. Inst. of Psychology, Sorbonne 1951-70; Pres. 1st World Congress of Psychiatry 1950; mem. Acad. de Médicine 1955–; Acad. Française 1959-, Conseil supérieur des lettres 1974-; Commandeur, Légion d'honneur; Dr. h.c. Zürich and Montreal Univs. *Publications:* Les dissolutions de la mémoire, Les dérèglements de l'humeur, La psychophysiologie humaine, Aspects de la psychiatrie moderne; novels: La cité grise 1946, Hommes sans nom 1948; La jeunesse d'André Gide. *Address:* 53 avenue Montaigne, Paris 8e, France.

DELBARRE, Florian François, D. en MED.; French professor of medicine; b. 7 Sept. 1918, Paris; s. of Florian and Marguerite Delbarre; m. 2nd Jeanne Dacheux; two c. (of 1st m.); ed. Lycée Michelet, and Faculties of Science and Medicine, Paris; served as intern in Paris Hospitals 1943-49; Head of Clinic of Faculty of Medicine, Paris 1949-55; Fellow of the Faculty of Medicine, physician, Paris Hospitals 1955-60, Prof. of Rheumatology at the Faculty of Medicine 1960-, Prof. Clinic of Rheumatology 1967-; Dir. Research Inst. of Rheumatology at l'Hôpital Cochin; Hon. Dean of the Faculty of Medicine, Paris-Cochin; mem. of Bd. of the Nat. Centre of Scientific Research; Consultant to the World Health Org.; Pres. Paris-René Descartes Univ. 1976-; fmr. Pres. French League against Rheumatism; Officier de la Légion d'honneur, Officier du Mérite, Chevalier de l'Ordre de la Santé Publique, Chevalier de l'Ordre des Palmes académiques, Officier du Mérite de la République Italienne, Médaille d'Or des Hopitaux de Paris, Lauréat de l'Académie Nationale de Médicine. *Publications:* L'Insuffisance alimentaire (with Prof. C. Richet) 1950, Les Stimulines hypophysaires (with Profs. Lemaire and Michard) 1950, Cortisone et cortico-stimuline en Rhumatologie (with Profs. F. Coste and J. Cayla). *Address:* 62 boulevard Arago, Paris 13, France. *Telephone:* 587-3403.

DELBART, Georges, D. ès SC.; French engineer; b. 11 April 1899, Anzin; s. of Charles Delbart and Thérèse Verriez-Delhalle; m. Nelly Laurent; one s. one d.; ed. Lycée de Valenciennes and Faculty of Science, Lille Univ.; Laboratory Chief, Société Escaut et Meuse 1922-27; entered Anciens Etablissements Cail and was successively Laboratory Service Chief, Head of the steelworks and Chief Metallurgist; engaged in manufacture of armaments, especially of tanks; Scientific Adviser to the "Armoured Vehicles" service Ministry of Armaments 1939-40; missions to England 1940, Germany 1946, Western Europe 1951, U.S.A. and Canada 1952, Brazil 1954, 1958, Argentina, Chile 1959, Peru, Brazil 1960, India 1964, Brazil 1966, Mexico 1966, Australia 1967, Japan 1967; Hon. Dir . of the French Iron and Steel Research Inst.; Hon. Pres., Dir.-Gen. of Revue de Métallurgie; Hon. Dir. standardization office, French Steel Industry; Officier Légion d'honneur; Commdr. de l'Ordre national du Mérite. *Leisure interests:* sculpture, painting, literature. *Address:* 35 rue de Lorraine, 78100 Saint-Germain-en-Laye, France. *Telephone:* 963-5220.

DELBRÜCK, Max; American (b. German) biologist; b. 4 Sept. 1906, Berlin; s. of Hans Delbrück; ed. Univs. of Tübingen, Berlin, Bonn and Göttingen; went to U.S. 1937, naturalized 1945; Prof. of Biology, California. Inst. of Technology 1947-; Visiting Prof. 1956 and Acting Prof. 1961-63, Cologne Univ.; mem. Nat. Acad. of Sciences; Fellow Leopoldina Acad., Halle, Royal Danish Acad., Foreign mem. Royal Soc. (U.K.), Foreign mem., Acad. Française; Kimber Gold Medal (Genetics), U.S. Nat. Acad. of Sciences; Hon. Ph.D. (Copenhagen, Chicago); Nobel Prize for Medicine (jointly with S. Luria, *q.v.*) 1969. *Address:* California Institute of Technology, Pasadena, Calif. 91109, U.S.A. (Office).

DEL CAMPO, Juan Domingo; Uruguayan diplomatist; b. 20 Oct. 1919, Montevideo; s. of Juan Domingo del Campo and Paulina Mañé; m. Esther Pastorino 1969; one s. one d.; ed. Faculty of Law and Social Sciences, Univ. de la República, Montevideo; held various diplomatic posts in Brazil 1938-40, Colombia 1948-49, Venezuela 1958-59, Argentina 1961-67; Amb. to Italy 1970-72, to

U.K. 1972-75; mem. leader of dels. on OAS, Inter-American Council of Jurists, Latin American Free Trade Assn. and other int. orgs., mem. negotiations for Latin American integration; Adviser to Pres. Jorge Pacheco Areco on Econ. Trade. *Publications:* An Experience in the Application of the Right of Political Asylum 1956, The Uruguayan Policy in LAFTA 1968, The Uruguayan Policy in the River Plate Basin 1969, Prevailingness of J. E. Rodó's Thought 1971, Political Realism of Talleyrand 1971. *Leisure interests:* history, philosophy, horse racing. *Address:* c/o Ministerio de Relaciones Exteriores, Avenida 18 de julio, Montevideo, Uruguay.

DE LEEUW, Ton; Netherlands composer; b. 16 Nov. 1926, Rotterdam; m. Arlette Reboul 1952; one s. three d.; ed. musical colls. in Netherlands and France and under Jaap Kunst, Amsterdam; with Radio Hilversum 1954-, responsible for annual radio programmes of Contemporary and non Western Music 1956-; Prof. Composition Conservatoires of Amsterdam and Utrecht 1959-, Lecturer, Univ. of Amsterdam 1962-; Dir. Conservatoire of Amsterdam 1972-; Study of Indian classical music and dance 1961; numerous prizes including Prix Italia 1956 and Prix des Jeunesses Musicales 1961. *Compositions:* Hiob (Radiophonic Oratorio) 1956, Mouvements Rétrogrades 1957, First String Quartet 1958, Antiphonie (chamber music with 4 electronic sound-tracks) 1960, Symphonies for Wind Instruments 1963, The Dream (Opera) 1963, Men go their ways (piano) 1964, Second String Quartet 1965, Syntaxis I (Electronic) 1966, Spatial music I-IV 1966-68, Haiku II (Sopr. and orch.) 1968, Lamento Pacis (vocal and instr.) 1969, Litany of our Time (Television play) 1970, Music for Strings 1970 and works for electronic instruments, Mountains (bass clarinet and tape) 1977, The Birth of Music 1978. *Publication:* The Music of the 20th Century 1964. *Address:* Costeruslaan 4, Hilversum, Netherlands. *Telephone:* 02150-15783.

DELEURAN, Aage; Danish journalist; b. 11 Oct. 1925, Korsør; s. of Holger Johannes and Agnete (née Lorentsen) Deleuran; m. Birthe Braae 1955. Staff reporter Korsør Avis 1942, Berlingske Aftenavis 1945, Paris Corresp. Berlingske Tidende 1952-56, Asst. Editor-in-Chief 1961, Exec. Editor 1967, Editor-in-Chief 1970-; Dir. Berlingske House 1975-; Chair. Soc. of Danish Press History 1966–, Ritzau's News Agency 1971-76, Assen. of Danish Newspapers 1972-; Order of Dannebrog; Chevalier Légion d'honneur. *Publication:* April 40 1965. *Address:* 34 Pilestraede, 1147 Copenhagen K (Office); 1 Carl Johans Gade 2100 Copenhagenø, Denmark (Home). *Telephone:* 01-157575 (Office).

DELFIM NETTO, Antônio, D.ECON.; Brazilian economist; b. 5 May 1928, São Paulo; s. of José Delfin and Maria Delfim; ed. School of Econs. and Management, Univ. de São Paulo; Univ. de São Paulo, Asst. Prof. 1952-54, Assoc. Prof. 1954-59, Prof. 1963; fmr. Dir. Insts. of Management and Econ. Research, School of Econs. and Man.; mem. São Paulo State Planning Comm. for Devt. 1965; Sec. of Finance, São Paulo State Govt. 1966-67; Minister of Finance 1967-74; Consultant and Technical Adviser to several orgs. in São Paulo; Order of Merit of the Brazilian Armed Forces; Order of Boyaca (Colombia); Order of Christ (Portugal); Ordine del Merito (Italy); Légion d'honneur (France). *Publications:* O Mercado de Açucar no Brasil 1958, O Problema do Café no Brasil 1959, O Trigo no Brasil 1960, Alguns Aspectos da Inflação Brasileira 1963, Agricultura e Desenvolvimento 1966, Planejamento para o Desenvolvimento 1966. *Leisure interest:* reading. *Address:* 503 Avenida Aclimação, 01531 São Paulo, Brazil.

DELFINI, Delfo; Italian international civil servant; b. 6 July 1913, Rome; ed. Univ. of Rome; Captain in Army Reserve 1939-45; with Shell, Rome 1945-49; expert for econ. questions, Ministry of Foreign Affairs, mem. Italian Del. to OECD 1950-59; Head of Div., Econ. and Social Cttee., European Communities 1960, Dir. 1969, Acting Sec.-Gen. 1971, Sec.-Gen. March 1973-. *Address:* Economic and Social Committee of the European Community, rue Ravenstein 2, 1000 Brussels, Belgium. *Telephone:* 512-39-20, 513-95-95.

DELFONT, Baron (Life Peer), cr. 1976, of Stepney in Greater London; **Bernard Delfont,** Kt.; British impresario and film executive; b. 5 Sept. 1909, Tokmak, Russia; s. of Isaac and Olga Winogradsky; brother of Sir Lew Grade (*q.v.*); m. Carole Lynne 1946; one s. two d.; entered theatrical management in Britain 1941; first London production 1942, has since presented very many shows in London; re-introduced variety to the West End at the London Casino 1947-48, presenting Laurel and Hardy, Sophie Tucker, Lena Horne, Olsen and Johnson, Mistinguette, etc.; presents summer shows in many seaside resorts; presenter with Louis Benjamin of the annual Royal Variety Performance; assumed management of London theatres: Wimbledon 1942, Whitehall 1943, St. Martin's 1943, Winter Garden (with Mala de la Marr) 1944, Saville 1946, New Royalty 1960, Comedy and Shaftesbury theatres 1964; took over lease of Prince of Wales Threatre 1958, New London Theatre 1973; converted London Hippodrome into Talk of the Town theatre restaurant 1958; Chair. and Chief Exec. EMI Film and Theatre Corpn., EMI Films, EMI Television Films Ltd.; Chair. EMI Cinemas Ltd., EMI Leisure, EMI Elstree Studios, EMI Film Productions Ltd., Associated British Cinemas Ltd., Chair. Associated Film Distributors; Dir. Bernard Delfont Org., Forte's (Holdings) Ltd., Central Beach Amusements Ltd., Lewenstein-Delfont Productions Ltd., Bernard Delfont Ltd., Theatre Restaurants Ltd., and many other companies; Pres. Variety Artistes' Fed., Entertainment Artistes Benevolent Fund 1978-; Trustee, Theatres Trust 1977-; Past Chief Barker, Variety Club of Great Britain; Pres. Printers' Charitable Corpn. 1978-. *Recent productions, alone or with others, include:* The Roar of the Greasepaint—The Smell of the Crowd, Pickwick, both in New York (with David Merrick), Barefoot in the Park, The Killing of Sister George, The Matchgirls, Funny Girl, The Odd Couple, Martha Graham Dance Co., Sweet Charity, The Four Musketeers, Golden Boy, Hotel in Amsterdam, Time Present, Mame, Your Own Thing, What the Butler Saw, Cat Among the Pigeons, Carol Channing with her 10 Stout-Hearted Men, The Great Waltz, Kean, Rabelais, Applause, The Threepenny Opera, The Good Old Bad Old Days, The Unknown Soldier and His Wife, A Doll's House, The Wolf, Brief Lives, Henry IV, A Streetcar Named Desire, Cinderella, The Good Companions, The Danny La Rue Show, Harvey, A Little Night Music, Dad's Army, The Plumber's Progress, The Exciting Adventures of Queen Daniella, Great Expectations, Mardi Gras. *Address:* 30-31 Golden Square, London, W1R 4AA, England. *Telephone:* 01-437 9234.

DELFORGE, Marc, D. EN D.; Belgian journalist; b. 2 Dec. 1909, Heusy; s. of René Delforge and Marie-Elise Laroche; m. Lucie Attout 1935; three s. four d.; ed. Coll. Notre Dame de la Paix, Namur and Univ. of Louvain; Barrister Namur 1932-34 and 1940-42; Asst. Editor Vers l'Avenir 1932-34, Editor-in-Chief 1934-75; Chef de Cabinet to Belgian Minister of Information, London 1942-44; Lecturer, Univ. of Louvain 1946; Dr. h.c. (Univ. of Montreal); Officer, Order of Leopold of the Crown and of Leopold II, Commdr., Order of St Gregory the Great, Medaille de la Résistence, etc. *Leisure interests:* travelling and reading. *Address:* 22 Rue de la Falise, Namur, Belgium. *Telephone:* 081/121064.

DELHAYE, Jean, D. ÈS SC.; French astronomer; b. 25 Feb. 1921, Lourches; s. of Parfait Delhaye and Rosa Duc; m. Jeanne Guézel 1944; four c.; ed. Facultés des Sciences, Rennes and Paris and Univs. of Leiden and Stockholm; Astronomer, Observatoire de Paris 1943-57; Prof. and Dir. of Observatory, Univ. of Besançon 1957-64; Deputy Dir. Observatoire de Paris 1964-67, Dir. 1968-71; Dir. Inst. National d'Astronomie et de Géophysique 1971-; corresp. mem. Acad. des Sciences, Société Royale des Sciences de Liège; mem. Bureau des Longitudes; Chevalier, Légion d'honneur; Officier, Ordre nationale du Mérite. *Publications:* various articles on astronomy. *Address:* Institut National d'Astronomie et de Géophysique, 77 avenue Denfert-Rochereau, 75014 Paris (Office); 2 rue de la Pléiade, 94240 L'Hay les Roses, France (Home). *Telephone:* (1) 329-21-12 (Office); (1) 664 5771 (Home).

DE L'ISLE, 1st Viscount, cr. 1956, 6th Baron De L'Isle and Dudley; **William Philip Sidney,** V.C., K.G., P.C., G.C.M.G., G.C.V.O., K.ST.J., M.A., D.L.; British Peer of the Realm; b. 23 May 1909, London; s. of late 5th Baron De L'Isle and Dudley and late Winifred Bevan; m. 1st Hon. Jacqueline Corinne Yvonne Vereker 1940 (died 1962), one s. four d.; m. 2nd Margaret Lady Glanusk 1966; ed. Eton and Magdalene Coll., Cambridge; Fellow of Inst. of Chartered Accountants 1934; with Barclays Bank 1936-39; commissioned Grenadier Guards (Reserve) 1929; served France and Belgium 1939-40, Italy 1943-44; Conservative M.P. for Chelsea 1944-45; Parl. Sec. to Ministry of Pensions 1945; Joint Treas. Conservative Party 1948; Sec. of State for Air 1951-55; Exec. with Schweppes (Home) Ltd. 1958-61; Gov.-Gen. of Australia 1961-65; Chair. Pheonix Assurance Co. Ltd. 1966-78; Dir. Yorkshire Bank Ltd., New York, The Diners' Club, Inc. and Diners' World Travel, Inc., New York, Security Archives Ltd., Century Insurance Co. (Bermuda) Ltd.; Pres. British Heart Foundation 1976; Trustee of the Winston Churchill Memorial Trust; Dir. Hamilton Art Gallery, New York; Trustee R.A.F. Museum; Chancellor, Order of St. Michael and St. George 1968. *Leisure interests:* fishing, shooting, oil painting, gardening, reading biographies. *Address:* Penshurst Place, near Tonbridge, Kent, England (Home). *Telephone:* Penshurst 223 (Home).

DELIVANIS, Dr. Dimitrios J.; Greek university teacher; b. 3 April 1909, Vienna; s. of John D. Delivanis and Helen J. Triantaphyllidis; m. Maria Negreponti 1959; one d.; ed. Univs. of Athens, Paris, Berlin and London School of Economics. Asst. Prof. Econs., Univ. of Athens 1938-44; Sec.-Gen. Ministry of Welfare 1939-41; Greek Co-ordinator, Joint Relief Cttee. for Greece 1943-45; Assoc.

Prof. of Econs. Salonika Univ. 1944-47, Prof. 1948-74; mem. Exec.Cttee. Centre of Econ. Research, Athens 1961-64, Centre of Social Sciences, Athens 1960-67; Vice-Pres. Greek Econ. Assn. 1961-70, Pres. 1971-75, Hon. Pres. 1975-; mem. Exec. Cttee. Int. Econ. Assn. 1959-65, Treas. 1965-68; mem. Board of Mediterranean Social Sciences Research Centre 1961, Pres. 1965-69; mem. Board Inst. of Balkan Studies 1960-73, Exec. Dir. 1971-72, Pres. 1974-; Vice-Rector, Univ. of Salonika 1964-65, Rector 1965-66, Pro-Rector 1966-67; Pres. Centre of Planning and Econ. Research 1968-73; mem. Board of Assn. Française de Science Economique 1975-; Guest Prof. at foreign univs. 1949-; Orders of Phoenix (First Class) and George I (Second Class), Greece; Officier Légion d'honneur, France. *Publications:* La politique des banques allemandes en matière de crédit à court terme 1934, Greek Monetary Developments 1939-48 1949, L'économie sous-développé 1963, Die internationale Liquidität 1965, Economics (in Greek), six edns. 1952-71, L'Influence de l'inflation sévissante depuis 1939 1970, Economic and Monetary Policy (in Greek) 5th edn. 1974, numerous articles in Greek, French, German and English. *Leisure interests:* mountaineering, travel. *Address:* Jan Smuts 50, Athens; Morgenthaou 1, Thessalonika, Greece. *Telephone:* Athens 363209; Thessaloníka 229-977.

DELL, Rt. Hon. Edmund, P.C., M.A.; British politician; b. 15 Aug. 1921, London; s. of Reuben and Frances Dell; m. Susanne Gottschalk 1963; ed. Owen's School, London, The Queen's Coll., Oxford. Lecturer, The Queen's Coll., Oxford 1947-49; Exec. Imperial Chemical Industries Ltd., 1949-63; mem. Manchester City Council 1953-60, Pres. Manchester and Salford Trades Council 1958-61; M.P. for Birkenhead 1964-79; Parl. Sec. Ministry of Technology 1966-67, Parl. Under-Sec. of State, Dept. of Econ. Affairs 1967-68, Minister of State, Board of Trade 1968-69, Minister of State, Dept. of Employment 1969-70, Chair. Public Accounts Cttee. of House of Commons 1972-74, Paymaster-Gen. 1974-76; Sec. of State for Trade 1976-78; apptd. by the European Council ■ mem. of Cttee. of Three to report on mechanisms and procedures of the Institutions of the EEC; Dir., Deputy Chair. Guinness Peat Group 1979-; Labour. *Publication:* Political Responsibility and Industry 1973. *Leisure interest:* listening to music. *Address:* 4 Reynolds Close, London, NW11 7EA, England. *Telephone:* 01-455 7197.

DELLA CASA-DEBELJEVIC, Lisa (*see* Casa-Debeljevic).

DEL MAR, Norman Rene, C.B.E., F.R.C.M., F.G.S.M.; British conductor; b. 31 July 1919, London; m. Pauline Mann 1947; two s.; ed. Marlborough and Royal Coll. of Music. Asst. to Sir Thomas Beecham, Royal Philharmonic Orchestra 1947; Principal Conductor English Opera Group 1949-55; Prof. of Conducting Guildhall School of Music 1953-60; Conductor BBC Scottish Orchestra 1960-65; Principal Guest Conductor Gothenburg Symphony Orchestra 1969-73; Conductor Royal Acad. of Music 1973-77; Conductor and Prof. of Conducting, Royal Coll. of Music; Principal Conductor Acad. of the BBC 1974-77; freelance conductor in U.K. and abroad; Hon. D.Mus. (Glasgow), Hon. D.Litt. (Sussex), Hon. R.A.M., Hon. D.Mus. (Bristol). *Publication:* Richard Strauss (3 vols.) 1962-72. *Address:* Witchings, Hadley Common, Herts., England (Home).

DEL MONACO, Mario; Italian singer; b. 1919; ed. Scuola d'Arte, Pesaro; début in Madame Butterfly (Teatro Puccini, Milan) 1940; La Scala début in La Bohème 1943; foreign début Royal Opera House, Covent Garden (London) 1945; American début in Manon Lescaut (New York Metropolitan Opera House) 1950; South American début in Otello (Teatro Colón, Buenos Aires) 1950; has appeared in numerous films: Arena d'Oro 1955, Orfeo d'Oro 1957, Maschera d'Oro 1958. *Address:* c/o Metropolitan Opera Association, 147 West 39th Street, New York City 18, N.Y., U.S.A.

DE LOËS, Charles, LL.D.; Swiss businessman and banker; b. 30 Aug. 1895; ed. Mulhouse Coll., and Univs. of Geneva and Berne. Partner, Hentsch and Co., Bankers, Geneva 1930-; Vice-Chair. Helvetia-Vie, Life Insurance Co., Geneva 1932, Vice-Chair. Société Générale pour l'Industrie, Geneva 1943; Dir. Helvetia Accident Insurance Co., Zürich 1947; Dir. Crédit Foncier Suisse, Zürich 1949; Hon. Chair. of Board Swiss Bankers' Assn., Basle 1950; Dir. Int. Chamber of Commerce, Paris 1951; Chair. Soc. Int. pour Participations Industrielles et Commerciales S.A., Basle 1958. *Address:* Ch. Belle-Fontaine 10, Cologny, Geneva, Switzerland.

DELON, Alain; French actor; b. 8 Nov. 1935; Sceaux; m. Nathalie Delon (dissolved); ■■■ s.; with French Marine Corps 1952-55; independent actor-producer under Delbeau (Delon-Beaume) Productions 1964- and Adel Productions 1968-. *Films include:* Christine 1958, Faibles femmes 1959, Le chemin des ecoliers 1959, Purple Noon 1959, Rocco and His Brothers 1960, Eclipse 1961, The Leopard 1962, Any Number Can Win 1962, The Black Tulip 1963, The Love Cage 1963, L'Insoumis 1964, The Yellow Rolls Royce 1964, Once ■ Thief 1964, Les centurions 1965, Paris brûle-t-il? 1965, Texas Across the River 1966, Les adventuriers 1966, Le samourai 1967, Histoires extraordinaires 1967, Diaboliquement votre 1967, Adieu l'ami 1968, Girl on a motorcycle 1968, La piscine 1968, Jeff 1968, Die Boss, Die Quietly 1969, Borsalino 1970, Madly 1970, Doucement les basses 1970, Le cercle rouge 1971, L'Assassinat de Trotsky 1971, La veuve Couderc 1971, Un flic 1972, Le professeur 1972, Scorpio 1972, Traitement de choc 1972, Les granges brûlées 1973, Deux hommes dans la ville 1973, Borsalino & Co. 1973, Les seins de glace 1974, Creezy 1975, Zorro 1975, Le gitan 1975, Mr. Klein 1975, Le gang 1977, Mort d'un pourri 1977, Armaguedon 1977. *Stage performances:* 'Tis Pity She's ■ Whore 1961, 1962, Les yeux crevés 1967. *Address:* 4 rue Chambiges, 75008 Paris, France.

DELORME, Jacques Emile; French international civil servant; b. 2 Dec. 1926, Isques; s. of Albert Delorme and Louise Delorme-Vasseur; m. Armelle Sourrieu 1954; five d.; ed. Ecole Polytechnique, Ecole Supérieure du Génie Maritime. Chief armaments eng. 1966; Head of Tech. Services, Ministry of Industry 1970-75; Dir.-Gen. European Patent Office 1976-; Officier, Ordre du Mérite, Chevalier, Légion d'honneur. *Leisure interests:* reading, sport. *Address:* European Patent Office, 2 Patentlaan, Rijswijk, Z.H. (Office); Belgischeplein 29A, The Hague, Netherlands (Residence); 5 rue du Parc, Meudon, France (Home). *Telephone:* 90-67-89 (Office).

DE LOS ANGELES, Victoria; Spanish soprano singer; b. (as Victoria Gómez Cima) 1 Nov. 1923, Barcelona; m. Enrique Magriñá Mir 1948; two s.; ed. Univ. and Conservatoire of Barcelona. Barcelona début 1945, Paris Opera and La Scala, Milan 1949, Royal Opera House, Covent Garden, London 1950, Metropolitan Opera House, New York 1951, Vienna State Opera 1957; numerous appearances at the other opera houses, concert tours and recordings; 1st Prize, Geneva Int. Competition 1947; Cross of the Order of Isabel the Catholic and numerous other orders and decorations. *Address:* Avenida de la Victoria 57, Barcelona 17, Spain.

DELOUVRIER, Paul; French civil servant; b. 25 June 1914; ed. Collège Saint-Etienne, Strasbourg, Faculté de Droit and Inst. d'Etudes Politiques, Paris. Inspector, Ministry of Finance 1941; Dir. Finance Division, Monnet Plan Commissariat General 1946-47; Dir. du Cabinet, Ministry of Finance 1947-48; Dir.-Gen. of Taxes 1948-53; Sec.-Gen. Interministerial Cttee. on European Econ. Co-operation; Dir. of Finance, European Iron and Steel Community 1955-58; Delegate Gen. in Algeria Dec. 1958-60; Prof. Inst. of Political Studies, Paris 1948-, mem. Board of Dirs. 1969-; Del.-Gen. Paris Region 1961-69; Prefect of Paris Region 1966-69; Pres. Inst. of Housing and Town Planning, Paris Region 1962-69; Pres. Conseil d'Admin., Electricité de France 1969-79; Pres. West Atlantic Assn. 1970-; Pres. Plan-Construction 1970-; Croix de guerre, Grand Officier Légion d'honneur, Grand' Croix de l'Ordre National du Mérite. *Address:* 7 avenue de Ségur, 75007 Paris, France (Home). *Telephone:* 705-14-64 (Home).

DEL PORTILLO, Very Rev. Alvaro, D.C.ENG., D.PHIL.LITT., D.CH.L.; Spanish priest; b. 11 March 1914, Madrid; ed. Higher Technical School of Civil Eng., Madrid, Univ. of Madrid, Angelicum Univ., Rome; trained as engineer; ordained Roman Catholic priest 1944; Procurator Gen. Opus Dei 1944, Sec.-Gen. 1940-47, 1956-75, Pres.-Gen. 1975-; Consultator to the Sacred Congregation of the Religious, Vatican Curia 1954, to the Sacred Congregation of the Council 1959; Pres. Preparatory Comm. for the Laity, Vatican Council II 1960, Sec. Comm. for the Clergy, 1962-65; Consultator to Conciliar Comm. for Bishops, also to Pontifical Comm. for Reform of the Code of Canon Law 1963; Consultator to the Congregation for the Doctrine of the Faith 1965; Grand Chancellor, Univs. of Navarra (Spain) and Piura (Peru) 1975; Kt. of Honour and Devotion of the Supreme Order of Malta 1958; Grand Cross of St. Raymond of Pennafort 1967. *Publications:* Discovery and Explorations of the Coasts of California 1947, Faithful and Laity in the Church 1969, On the Priesthood 1970, Ethics and Law 1971, Associations for Priests 1975. *Address:* Viale Bruno Buozzi 73, 00197 Rome, Italy. *Telephone:* 879042.

DELPRAT, Daniel Apollonius, DR. JUR.; Netherlands shipowner; b. 10 Jan. 1890, Amsterdam; s. of Dr. Constant Charles Delprat and Catharina Elisabeth Reynvaan; m. 1st Saskia Veth 1915, 2nd Martine L. A. Labouchere 1973; ed. Amsterdam High School and Univ. of Amsterdam; joined Nederland Line Royal Dutch Mail 1915, apptd. rep. in Neths. East Indies 1920, Man. Dir. 1927-, Chair. 1957, Dir. 1958; Chair. Shareholders Trust Comm., Royal Netherlands Navigation Co.; Founder, Overslagbedrijf Amsterdam; Hon. Chair. Amsterdam Chamber of Commerce, Hon. Chair. Sea Transport Cttee., Int. Chamber of Commerce; Knight, Order of Netherlands Lion; Grand Officer Order of Orange-Nassau; Cmmdr. Légion d'honneur, Order of Vasa (1st Class), 1st Class

Order of Merit, Austria. *Publications:* Treatise on Through Bills of Lading 1915, Treatise on Flag Discrimination 1952, Aperire Terram Gentibus: Reminiscences Last Decade Suez Canal Company 1972. *Leisure interest:* historical studies. *Address:* Museumplein 7, 1071 DJ Amsterdam, Netherlands. *Telephone:* 73-66-90.

DE LULLO, Giorgio; Italian actor and theatre producer; b. 24 April 1921; ed. Accad. Nazionale d'Arte Dramatica, Rome; joined Compagnia Ninchi-Pagnani 1945; founder-mem. Piccolo Teatro, Milan and Rome; founded Compagnia dei Giovani with R. Falk, R. Valli and A. M. Guarnieri 1955; numerous tours in Europe including World Theatre Season, London 1965, 1966; produces open-air theatre seasons in Florence, Capri and Verona; St. Vincent Prize 1958 for production D'amore si muore (Patroni-Griffi); Gold Medal 1960. *Address:* Appia Antica 140, Rome, Italy.

DELVAUX, Paul; Belgian artist; b. 1897; ed. Brussels Acad. of Fine Arts; began as painter of portraits, land- and sea-scapes; after travel in France and Italy adopted the surrealistic style; has executed murals in the Kursaal, Ostend, Institut de Zoologie, Liège, and in private houses in Brussels; Prof. Inst. Nat. Supérieur d'Architecture et des Arts Décoratifs, Brussels; mem. Acad. Royale des Sciences, des Lettres et des Beaux Arts de Belgique; exhbn. at Piccadilly Gallery, London 1966. *Address:* c/o Académie Royale des Sciences, des Lettres et des Beaux Arts de Belgique, Palais des Académies, 1 rue Ducale, Brussels, Belgium.

DE MAIZIÈRE, General Ulrich; German army officer; b. 24 Feb. 1912, Stade; s. of Walther de Maizière and Elisabeth Dückers; m. Eva Werner 1944; two s. two d.; ed. Humanistisches Gymnasium, Hanover; army service 1930, commissioned 1933; Battalion and Regimental Adjutant, 5th Prussian Infantry Reg.; Gen. Staff Coll., Dresden 1940; during Second World War Gen. Staff Duties with 18th Motorized Infantry Div., G3 and Chief of Staff of 10th Mechanized Div., wounded 1944, at end of war G3 in Operations Div. Army Gen. Staff; Prisoner-of-war 1945-47; dealer in books and sheet music 1947-51; Office of Fed. Commr. for Nat. Security Affairs 1951; Col. and Chief of Ops. Branch, Fed. Armed Forces Staff 1955; Commdr. of Combat Team A1 and Commdr. 2nd Brigade 1958; Deputy Commdr. 1st Armoured Infantry Div. 1959; Commdt. Fed. Armed Forces School for Leadership and Character Guidance 1960-62, Fed. Armed Forces Command and Staff Coll. 1962-64; Chief of Army Staff 1964-66; Chief of Fed. Armed Forces Staff 1966-72; Commdr. Légion d'honneur 1962, Freiherr-von-Stein-Preis 1964, Commdr. Legion of Merit 1965 and 1969, Grand Officier Légion d'honneur 1969, Grosses Bundesverdienstkreuz mit Stern und Schulterband 1970; retd. *Publications:* Die Landesverteidigung im Rahmen der Gesamtverteidigung 1964, Soldatische Führung heute 1966, Bekenntnis zum Soldaten 1971, Führen im Frieden 1974, Verteidigung in Europa—Mitte 1975. *Leisure interests:* classical music, literature. *Address:* 53 Bonn 2, Eschenweg 37, Federal Republic of Germany. *Telephone:* 02221/321972.

DEMARTEAU, Joseph, DR. en DROIT; Belgian journalist; b. 1919, Liège; s. of Joseph Demarteau and Geneviève Dijon; m. Françoise Beer 1944; one s. four d.; ed. Coll. Saint Servais, Liège, and Univ. of Liège; Asst., Univ. of Liège 1942; barrister 1942; Sec. Gazette de Liège 1944, Dir. and Editor-in-Chief 1959-; Dir. Libre Belgique-Gazette de Liège 1967; medal Pro Ecclesia et Pontifice, Officer Ordre Mérite Civil Espagnol, Officer Ordre Léopold II, and other foreign orders. *Leisure interest:* music. *Address:* 26 Boulevard d'Avroy, Liège (Office) 5 place Emile Dupont, Liège, Belgium (Home). *Telephone:* (041) 23-70-03.

DE MARTINO, Ciro; Italian banker; b. 12 Dec. 1903; m. Renata Cametti; two d.; ed. Università degli Studi, Rome; joined Banca d'Italia, Cosenza br. 1927, Sec. to Vice Gen. Man. 1931, Asst. Insp. 1940; Rep. to Banca d'Italia at Interdepartmental Comm. on change of currency; Chair. Interbanks Cttee., negotiating re-establishment of Italian bank brs, in East Africa 1948; Adviser to Somali authorities on Italian banking in the territory 1950; Senior Insp. in charge of Gen. Inspectorate, Banca d'Italia 1951, Head of Org. Dept. 1953, Gen. Insp. and Head of Banking Supervision Dept. 1960; resigned 1965; Chair. Board of Dirs., Banco di Sicilia, Palermo, 1965-78; Knight of Grand Cross, Ordine al Merito della Repubblica Italiana. *Address:* Via Dei Colli Della Farnesina 118, Rome, Italy (Home).

DE MARTINO, Francesco; Italian university professor and politician; b. 31 May 1907; ed. Liceo Gianbattista Vico, Naples, and Univ. degli Studi, Naples; Prof. of History of Roman Law, Univ. of Naples 1934-38, Univ. of Messina 1938-40, Univ. of Bari 1940-50, Univ. of Naples 1950; mem. Chamber of Deputies 1948-; Sec. Partito Socialista Italiano 1964-66; Joint Sec. Unified Italian Socialist Party 1966-70; Sec.-Gen. Partito Socialista Italiano (PSI) 1972-76; Deputy Prime Minister 1968-69, 1970-72. *Publications:* Storia della Costituzione Romana, Vol. 5 and numerous legal, historical and political articles. *Address:* c/o Partito Socialista Italiano, Via del Corso 476, Rome, Italy.

DEMAS, William Gilbert, M.A.; Trinidadian economist and civil servant; b. 14 Nov. 1929, Port-of-Spain; s. of late Herman and Audrey (née Walters) Demas; m. Norma Taylor 1958; one d.; ed. Queen's Royal Coll., Trinidad and Emmanuel Coll., Cambridge; Head, Econ. Planning Div., Govt. of Trinidad and Tobago 1959-66; Perm. Sec. Ministry of Planning and Devt. 1966-68; Econ. Adviser to the Prime Minister 1968-69; Sec.-Gen. Commonwealth Caribbean Regional Secr. 1970-74; Pres. Caribbean Devt. Bank 1974-; Humming Bird Gold Medal (for public service). *Publications:* Economics of Development in Small Countries 1965, Planning and the Price Mechanism in the Context of Caribbean Economic Integration 1966. *Leisure interests:* films, listening to all kinds of music. *Address:* Colgrain House, 205 Camp Street, Georgetown, Guyana.

DE MAYO, Paul, PH.D., D. ÈS SC., F.R.S.C., F.R.S.; British chemist; b. 8 Aug. 1924, London; s. of S. N. de Mayo and A. B. Juda; m. Mary Turnbull 1949; one s. one d.; ed. Univ. of Exeter, Birkbeck Coll. and Univ. of London. Asst. Lecturer, Birkbeck Coll. 1954-55; Lecturer, Univ. of Glasgow 1955-57, Imperial Coll. of Science and Technology 1957-59; Prof. Univ. of W. Ont. 1959-, Dir. Photochemistry Unit 1969-72; Merck, Sharp & Dohme Lecture Award 1966; Centennial Medal (Canada) 1967. *Publications:* Ed. Molecular Rearrangements, Vol. I 1963, Vol. II 1964; Monographs: Mono and Sesquiterpenoids 1959, The Higher Terpenoids 1959; over 160 publications in scientific journals. *Address:* Photochemistry Laboratory, University of Western Ontario, London, Ont. (Office); 436 St. George Street, London, Ont. N6A 3B4, Canada (Home). *Telephone:* 519-679-2473 (Office); 519-679-902 (Home).

DE MERODE, Prince Werner; Belgian diplomatist; b. 25 March 1914, St Gilles; m. Mathilde Rolin 1947; two s. four d.; ed. in Belgium; served Embassy in London 1944, in Paris 1944-46; Ministry of Foreign Affairs 1946-48; Second Sec., London 1948-51; Ministry 1951-53; First Sec., later Counsellor, Athens 1953-55; Counsellor, Ottawa 1955-58; Counsellor, Perm. Mission to EEC 1958-59; Minister Counsellor, Paris 1959-63, Minister Plenipotentiary 1963-65; Dir. of European Affairs in Ministry of Foreign Affairs, also Insp. of Personnel 1965-72; Amb. to Vatican City 1972-76, to France Dec. 1976-; Grand Officier de l'Ordre de la Couronne, Croix de guerre, Croix des Evadés (Belgium), Grand Cross, Order of Pius IX (Vatican City), Commdr. Légion d'honneur (France), Croix de guerre (France), K.C.V.O. (U.K.). *Address:* Embassy of Belgium, 9 rue de Tilsitt, 75840 Paris Cédex 17 (Office); 25 rue de Surène, 75008 Paris, France (Home). *Telephone:* 380-61-00 (Office); 265-93-95 (Home).

DEMETRIADIS, Phokion; Greek journalist and cartoonist; b. 18 Nov. 1894, Istanbul; m. Melpo Theodoridou 1924; one d.; ed. National School of Languages and Commerce, Istanbul; Journalist 1922-; regular contributor to Athens To Vima, Ta Nea and to Makedonia of Thessaloniki; European and World first prizes in World Political Cartoonists' Competition, Los Angeles 1961; Acad. of Athens Award 1969. *Publications:* Shadows over Athens 1945, The Spotted Goat 1950, With the Cartoonist's Eye 1959, illustrated modern Greek Homer's Odyssey 1969. *Address:* 3rd September Street 174, Athens, Greece. *Telephone:* 871381.

DEMICHELI LIZASO, Pedro Alberto; Uruguayan lawyer and politician; b. 7 Aug. 1896, Rocha; m. Sofia Alvarez Vignoli de Demicheli, 1925; one s.; Minister of Public Education; Minister of Interior and Vice-Pres. of Uruguay 1930-35; Pres. of Council of State and Vice-Pres. of Uruguay 1974-June 1976, interim Pres. of Uruguay June-Aug. 1976; prizes from Univs. of Montevideo and Buenos Aires for various books. *Publications:* Los Entes Autónomos 1925, Gobierno Local Autónomo 1929, Lo Contencioso Administrativo 1934, Formación Constitucional Rioplatense (3 vols.) 1950, Origen Federal Argentino 1966, Formación Nacional Argentina (2 vols.) 1972. *Address:* Juan Benito Blanco 1275, Piso 10°, Montevideo, Uruguay. *Telephone:* 79-50-54.

DEMICHEV, Pyotr Nilovich; Soviet politician; b. 3 Jan 1918; ed. Moscow Mendeleyev Chemical and Technological Inst.; Soviet Army 1937-44; Instructor, Moscow Mendeleyev Chemical and Technological Inst. 1944-45; Party Work 1945-56; Sec. Moscow Regional Cttee. CPSU 1956-58; Business-Man. U.S.S.R. Council of Ministers 1958-59; First Sec. Moscow Regional Cttee., CPSU 1959-60; First Sec. Moscow City Cttee., CPSU 1960-62; mem. Cen. Cttee. CPSU 1961-, Sec. CPSU Cen. Cttee. 1961-74, Cand. mem. Politburo CPSU Cen. Cttee. 1964; Minister of Culture 1974-; Deputy to U.S.S.R. Supreme Soviet; Order of Lenin (three times), Order of Red Banner and other decorations. *Address:* Ministry of Culture, Moscow, U.S.S.R.

DEMIÉVILLE, Paul; French orientalist; b. 13 Sept. 1894, Lausanne; m. 1927; two c.; mem. Ecole française d'Extrême-Orient, Hanoi 1919-24; Prof. Univ. of Amoy, China 1924-26; mem. Maison Franco-Japonaise, Tokyo 1926-30; Prof. School of Oriental Languages, Paris 1931-45; Dir. of Studies, Ecole des Hautes Etudes, Paris 1945; Prof. of Chinese Language and Literature, Coll. de France 1946-64; mem. Inst. de France (Acad. des Inscriptions et Belles-Lettres) 1951-. *Address:* 234 boulevard Raspail, 75014 Paris, France. *Telephone:* 033-41-84.

DEMIREL, Süleyman; Turkish engineer and politician b. 1924; ed. Istanbul Technical Univ.; qualified engineer; worked in U.S.A. 1949-51; 1954-55; with Dir.-Gen. of Electrical Studies, Ankara 1950-52; in charge of building various hydro-electric schemes 1952-54; Head of Dept. of Dams; Dir.-Gen. of Water Control 1954-55; first Eisenhower Fellow for Study in U.S.A. 1955; Dir. State Hydraulics Admin. 1955-60; Teacher of Engineering, Middle East Technical Univ. 1960-64; in private practice 1961-65 (consultant to Morrison-Knudsen); Pres. Justice Party 1964-; Deputy Prime Minister Feb.-Oct. 1965; Prime Minister 1965-71, 1975-June 1977, July-Dec. 1977. *Address:* Adalet Partisi, Ankara, Turkey.

DE MITA, Luigi Ciriaco; Italian politician; b. 2 Feb. 1928, Nusco, Avellino; fmr. mem. Catholic Action; mem. Chamber of Deputies for Benevento-Avellino-Salerno 1963, 1972-; Nat. Counsellor Partito Democrazia Cristiana (Christian Democrats) 1964, later Political Vice-Sec.; Under-Sec. for the Interior; Minister of Industry and Commerce 1973-74, of Foreign Trade 1974-76; Minister without Portfolio with responsibility for the Mezzogiorno July 1976-79; Christian Democrat. *Address:* Via Boncompagni 30, Rome, Italy (Office).

DEMUS, Joerg; Austrian concert pianist; b. 2 Dec. 1928, St. Pölten, Lower Austria; s. of Dr. Otto and Erika (Budik) Demus; ed. Vienna State Acad. of Music and studies with various musicians; début at age 14; Gesellschaft der Musikfreunde, Vienna; concerts in London and Switzerland 1950, tour of Latin America 1951; Paris début 1953; has performed in almost all important musical centres; has made over 200 LP records; Premier Busoni at Int. Piano Competition, Bolzano 1956; several Edison Awards and Grand Prix du Disque. *Publications:* Abenteuer der Interpretation (essays); co-author of a book on Beethoven's piano sonatas. *Leisure interest:* collecting and having restored historic keyboard instruments. *Address:* Döblinger Hauptstrasse 77A, 1190 Vienna, Austria. *Telephone:* 366238.

DEMUS, Otto, DR. PHIL., M.A.; Austrian art historian; b. 4 Nov. 1902, Harland; s. of Dr. Karl and Paula Demus; m. Margarethe Demus 1950; two s.; ed. Univ. of Vienna. Asst. Inst. for History of Art, Univ. of Vienna 1928-29; keeper of monuments in Carinthia 1929-36; monuments officer in Fed. Monuments Office 1936-39; voluntary emigration to England 1939; returned to Austria 1946; Pres. Fed. Monuments Officer 1946-; lecturer on History of Art, Univ. of Vienna 1937-39, 1946-51, Prof. 1951-; Slade Prof. Art, Cambridge 1968-69; mem. Vienna Acad. of Science and Inst. of Archaeology, Mainz Acad. of Sciences, Académie des Inscriptions et Belles-Lettres, Acad. Palermo, British Acad., Acad. of Serbia; Fellow, Soc. of Antiquaries 1960; mem. Ateneo Veneto; Dr.h.c. (Munich); Austrian Cross of Honour for Science and Art (1st Class) 1959, Grosses Ehrenzeichen der Republik Österreich 1965, Commendatore dell'Ordine al Merito della Repubblica Italiana 1965, Grosses österreichisches Verdienstzeichen für Kunst und Wissenschaft 1975. *Publications:* Byzantine Mosaics in Greece (with E. Diez) 1931, Die Mosaiken von San Marco in Venedig 1100-1300 1935, Byzantine Mosaic Decoration 1947, Sicilian Mosaics of the Norman Period 1949, The Church of San Marco in Venice 1960, Romanische Wandmalerei 1968, Byzantine Art and the West 1970. *Leisure interests:* reading, music, walking, travel. *Address:* Prinz Eugenstrasse 27, 1030 Vienna III, Austria. *Telephone:* 73-49-094.

DEMUTH, Richard H., A.B., LL.B.; American lawyer and financier; b. 11 Sept. 1910, New York; s. of Leopold and Dora Holzman Demuth; m. Eunice Burdick 1947; one d.; ed. Princeton Univ. and Harvard Law School; Law Clerk to Fed. Circuit Judge 1934-35; practised law in New York with firm of Simpson, Thacher and Bartlett 1935-39; Special Asst. to U.S. Attorney-Gen., Office of Solicitor-Gen. 1939-42; Asst. to Chief of Procurement Div., Air Technical Service Command 1942-45; Legal Adviser, Industry Division, U.S. Mil. Govt. in Germany, mem. Cen. German Admin. Depts. (Economic) Cttee. Allied Control Council 1945-46; Asst. to Pres., Int. Bank for Reconstruction and Development 1946-47, Asst. to Vice-Pres. 1947-51, Dir. Technical Assistance and Liaison 1951-61, Dir. Devt. Services Dept. 1961-73; Asst. to Pres. Int. Finance Corpn. 1956-57; Partner law firm of Surrey, Karasik and Morse, Washington March 1973-; led Bank missions to Brazil 1949, Surname 1951, Burma 1953, Spain 1958, Turkey 1965; mem. of President's Council; Chair. Int. Board for Plant Genetic Resources; fmr. Chair. Consultative Group on Int. Agricultural Research; fmr. mem. Governing Board, Int. Inst. for Educational Planning. *Leisure interests:* tennis, golf. *Address:* c/o Surrey, Karasik and Morse, 1156 15th Street, N.W. Washington, D.C. 20005; 5404 Bradley Boulevard, Bethesda, Maryland 20014, U.S.A. (Home).

DEMY, Jacques; French film director; b. 5 June 1931, Pont Chateau; s. of Raymond Demy and Marie Louise Leduc; m. Agnès Varda (*q.v.*) 1962; one s. one d.; ed. Collège de Nantes and Ecole Nationale de Photographie et Cinématographie, Paris; Prix Louis Delluc 1964, Palme d'Or Festival de Cannes 1964. *Short films:* Le sabotier du Val de Loire 1957, Le bel indifférent 1958, Ars 1959; *Full-length films:* Lola 1960, La baie des anges 1962, Les parapluies de Cherbourg 1963, Les demoiselles de Rochfort 1966, Model Shop 1968, Peau d'âne 1970, Pied Piper of Hamelin 1971, L'événement le plus important depuis que l'homme a marché sur la lune 1973, Lady Oscar 1978. *Leisure interests:* painting, flying. *Address:* 86 rue Daguerre, 75014 Paris, France. *Telephone:* 322-66-00.

DENEUVE, Catherine (Catherine Dorléac); French actress; b. 22 Oct. 1943, Paris; d. of Maurice Dorléac and Renée Deneuve; m. David Bailey (divorced); one s.; ed. Lycée La Fontaine, Paris; Film debut in Les petits chats 1959; *films include:* Les portes claquent 1960, L'homme à femmes 1960, Le vice et la vertu 1962, Et Satan conduit le bal 1962, Vacances portugaises 1963, Les parapluies de Cherbourg 1963 (Golden Palm at Cannes Festival 1964), Les plus belles escroqueries du monde 1963, La chasse à l'homme 1964, Un monsieur de compagnie 1964, La Costanza della Ragione 1964, Repulsion 1964, Le chant du monde 1965, La vie de château 1965, Liebes Karusell 1965, Les créatures 1965, Les demoiselles de Rochefort 1966, Belle de jour 1967 (Golden Lion at Venice Festival 1967), Benjamin 1967, Manon 70 1967, Mayerling 1968, La chamade 1966, Folies d'avril 1969, Belles d'un soir 1969, La sirène du Mississippi 1969, Tristana 1970, Peau d'âne 1971, Ça n'arrive qu'aux autres 1971, Liza 1971, Un flic 1972, L'événement le plus important depuis que l'homme a marché sur la lune 1973, Touche pas la femme blanche 1974, La femme aux bottes rouges 1975, La grande bourgeoisie 1975, Hustle 1976, March or Die 1977, Coup de foudre 1977, Ecoute, voir ... 1978, L'argent des autres 1978. *Address:* 36 ave. George-Mandel, 75116 Paris, France.

DEN HARTOG, Jacob Pieter, E.E., PH.D.; American engineer; b. 23 July 1901, Java, Indonesia; s. of Maarten Den Hartog and Elisabeth Schol; m. Elisabeth Stolker 1926; two s.; ed. Delft Univ. of Technology, Netherlands and Univ. of Pittsburgh, Pa.; moved to Netherlands 1916; came to U.S. 1924; Engineer, Westinghouse Research Laboratory, Pittsburg 1924-32; Asst. Prof. and Assoc. Prof. Harvard Univ. 1932-41; Lieut.-Commdr. to Capt., U.S. Naval Reserve; U.S. Navy 1941-45; Prof. of Mechanical Engineering, M.I.T. 1945-67, Head, Dept. of Mechanical Engineering 1954-58, Prof. Emer. 1967-; also Consulting Engineer; Fellow, American Inst. of Aeronautics and Astronautics, Inst. of Mechanical Engineers, London; mem., Nat. Acad. of Sciences, American Inst. of Consulting Engineers, Royal Inst. of Engineers, Netherlands; Hon. mem. American Soc. of Mechanical Engineers, Japan Soc. of Mechanical Engineers; Hon. A.M. Harvard Univ., Hon. Dr. Eng. Carnegie Inst. of Technology, Pittsburgh, Hon. Dr. Eng. Carnegie Inst. of Technology, Pittsburgh, Hon. Dr. Applied Sc. (Ghent), Hon. Dr. Tech. Sc. (Delft Univ. of Technology), Hon. Sc.D. (Salford), Hon. Sc.D. (Newcastle-upon-Tyne). *Publications:* Mechanical Vibrations (trans. in ten languages) 1st U.S. edn. 1934; also three other books and 35 papers. *Address:* Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); Barnes Hill Road, Concord, Mass. 01742, U.S.A. (Home). *Telephone:* 617-253-3298 (Office); 617-369-2907 (Home).

DENCH, Judith (Judi) Olivia, O.B.E.; British actress; b. 9 Dec. 1934, York; d. of Reginald Arthur and Eleanora Olave (née Jones) Dench; m. Michael Williams 1971; one d.; ed. The Mount School, York, Central School of Speech Training and Dramatic Art; played in Old Vic seasons 1957-61, appearing in parts including Ophelia (Hamlet), Katherine (Henry V), Cecily (The Importance of Being Earnest), Juliet (Romeo and Juliet), appeared with Old Vic Co. at two Edinburgh Festivals, Venice, on tour to Paris, Belgium and Yugoslavia, and on tour to U.S.A. and Canada; appearances with R.S.C. 1961-62, including parts as Anya (The Cherry Orchard), Titania (A Midsummer Night's Dream), Dorcas Bellboys (A Penny for a Song), Isabella (Measure for Measure); on tour to W. Africa with Nottingham Playhouse 1963; subsequent roles include Irina (The Three Sisters), and Doll Common (Alchemist), Oxford Playhouse 1964-65, title-role in Saint Joan, and Barbara (The Astrakhan Coat), Nottingham Playhouse 1965, Amanda (Private Lives), Lika (The Promise) 1967, Sally Bowles (Cabaret) 1968, Grace Harkaway

(London Assurance) 1970, 1972, Barbara Undershaft (Major Barbara) 1970; Assoc. Mem. R.S.C. 1969-, appearing as Bianca (Women Beware Women), Viola (Twelfth Night), Hermione and Perdita (Winter's Tale), Portia (Merchant of Venice), Duchess (Duchess of Malfi), Beatrice (Much Ado About Nothing), Lady Macbeth (Macbeth), Adriana (Comedy of Errors), also on tour with R.S.C. to Japan and Australia 1970, Japan 1972; other performances include Vilma (The Wolf), Oxford and London 1973, Miss Trant (The Good Companions), 1974, Sophie Fullgarney (The Gay Lord Quex) 1975, Nurse (Too True to be Good) 1975, 1976, Millament (Way of the World) 1978; recital tour of W. Africa 1969. *Films include:* A Study in Terror 1965, He Who Rides ■ Tiger 1966, Four in the Morning 1966, A Midsummer Night's Dream (R.S.C. Production) 1968, The Third Secret 1978, Dead Cert. *TV Appearances in* Major Barbara, Pink String and Sealing Wax, Talking to ■ Stranger, The Funambulists, Age of Kings, Jackanory, Hilda Lessways, Luther, Neighbours, Parade's End, Marching Song, On Approval, Days to Come, Emilie, Comedy of Errors, Macbeth, Langrishe Go Down, On Giants Shoulders. Numerous awards including Paladino d'Argentino (Venice Festival Award for Juliet) 1961, Best Actress of Year (Variety London Critics for Lika in The Promise) 1967, Most Promising Newcomer (British Film Acad. for Four in the Morning) 1965, Best Actress of the Year (Guild of Dirs. for Talking to ■ Stranger) 1967; Soc. West End Theatre Award (for Lady Macbeth) 1977; Hon. D. Litt. (Warwick) 1978. *Leisure interests:* painting, drawing, swimming, sewing, catching up with letters. *Address:* c/o Leading Artists Ltd., 60 St. James' Street, London, S.W.1 (Home).

DENHOLM, John Ferguson, C.B.E.; British shipowner; b. 8 May 1827, Glasgow; s. of Sir William and Lady Denholm (née Ferguson); m. Elizabeth Murray Stephen 1952; two s. two d.; ed. Loretto School, Midlothian. Chair. Denholm Line of Steamers Ltd., Denholm Ships Management Ltd.; Pres. Chamber of Shipping of U.K. 1973-74; mem. National Ports Council 1973-76; mem. Scottish Transport Group; Chair. North of England Protecting & Indemnity Assen. 1976-78; mem. Board P. & O. Steam Navigation Co. 1974-; Gov. Loretto School; Hon. Norwegian Consul in Glasgow. *Leisure interests:* sailing, skiing, shooting, fishing. *Address:* Newton of Belltrees, Lochwinnoch, Renfrewshire, Scotland. *Telephone:* Lochwinnoch 406.

DENIAU, Jean François, D. EN D., L. ÈS L.; French economist and diplomatist; b. 31 Oct. 1928, Paris; s. of Marc Deniau and Marie-Berthe Loth-Simmonds; brother of Xavier Deniau (*q.v.*); m. Frédérique Dupuy 1971; two c.; ed. Institut d'Etudes Politiques de Paris, Ecole Nationale d'Admin.; Ecole Nationale d'Administration 1950-52; Finance Insp. 1952-55; Sec.-Gen. Inter-Ministerial Cttee. on European Econ. Co-operation 1955-56; Del. to OEEC 1955-56; Del. to Inter-Govt. Conf. on the Common Market and Euratom 1956; Head of Mission, Cabinet of Pres. of Counsel 1957-58; Technical Adviser, Ministry of Industry and Commerce 1958-59; Dir. Comm. on countries seeking association with EEC 1959-61; Head of Del., Conf. with States seeking membership of EEC 1961-63; Dir. External Econ. Relations, Ministry of Finance and Econ. Affairs (France) 1963; Amb. to Mauritania 1963-66; Pres. Comm. Franco-Soviétique pour la télévision en couleur; mem. Combined Comm. of EEC, ECSC, and Euratom 1967-73; Commr. for Devt. Aid, European Communities 1969-73; Sec. of State for Foreign Affairs 1973-74, for Agricultural and Rural Devt. 1974, for Agriculture 1975-76; Amb. to Spain 1976-77; Sec. of State for Foreign Affairs 1977-78; Minister of Foreign Trade April 1978-. *Publications:* Le marché commun 1958, 1960, La mer est ronde (Prix de la Mer) 1976, L'Europe interdite 1977. *Leisure interest:* sailing. *Address:* 14 rue Saint-Guillaume, 75007 Paris, France.

DENIAU, Xavier; French politician; b. 24 Sept. 1923, Paris; s. of Marc Deniau and Marie-Berthe Loth-Simmonds; brother of Jean François Deniau (*q.v.*); m. Irène Ghica-Cantacuzène 1953; five c.; ed. Univ. of Paris and Ecole Nationale de la France d'Outre-mer; successively Dir. of External Affairs, Cameroon, and Political Adviser to the Gen. High Commr. of Dakar 1944-55; mem. French del. to UN 1955-58 and to NATO 1960-62; Technical Adviser, Cabinet of the Minister for Armed Forces 1960-62; Maître des Requêtes, Council of State 1962-; Deputy for the fourth constituency of the Loiret 1962-; Chair. for Cultural Relations and Technical Co-operation, Foreign Affairs Comm., Nat. Assembly 1962-68, Vice-Pres. Foreign Affairs Comm., 1968-72, 1973-; Mayor of Escrignelles 1965-; Sec. of State ■ charge of Overseas Depts. and Territories 1972-73; Vice-Pres. of Council of Centre region 1974-; mem. Comm. nationale pour l'éducation, la science et la culture 1968; Sec.-Gen. Association internationale des parlementaires de langue française 1967-; Vice-Pres. Assen. nationale France-Canada 1966-69; Pres. Association France-Québec 1969-72; Pres. friendship groups France- Cameroun 1963-72, France-Québec and France-Canada 1967-72, 1973-; Pres. Comité de la francophonie 1973-; mem. Société française d'onomastique; mem. Overseas Acad. of Sciences 1974-; Officier, Legion d'honneur, Croix de guerre 1939-45 and Croix de guerre des Théâtres d'Opérations Extérieurs, Commdr. Ordre du Christ; allied to Rassemblement pour la République (RPR). *Address:* La Tardivière, Escrignelles, 45250 Briare, France.

DENISSE, Jean-François; French astronomer, b. 16 May 1915, Saint-Quentin, Aisne; s. of Jean Julien Denisse and Marie Nicolas; m. Myriam Girondot 1948, two d., ed. Ecole Normale Supérieure. Teacher at Lycée, Dakar 1942-45; at Centre Nat. de la Recherche Scientifique (C.N.R.S.) 1946-47; Guest Worker, Nat. Bureau of Standards, U.S.A. 1948-49; Head of Research of C.N.R.S. at Ecole Normale Supérieure 1950-51, Dir. of Studies, Inst. des Hautes Etudes, Dakar 1952-53; Asst. Astronomer, Paris Observatory 1954-56, Astronomer 1956-63, Dir. 1963-68; Chair. of Board of Nat. Space Research Centre 1968-73; Dir. Institut Nationale d'Astronomie et de Géophysique 1968-71; Pres. Bureau des Longitudes 1974-75; mem. Atomic Energy Comm. 1970-75, Head of Research 1976-; Pres. Council of the European Southern Observatory 1977-; Pres. Cttee. for Space Research (COSPAR) 1978-; mem. Acad. des Sciences 1967-; Corresp. mem. of Int. Acad. of Astronautics 1968–; Commdr. Légion d'honneur, Commdr. de l'Ordre national du Mérite. *Leisure interests:* tennis, sailing, skiing, golf. *Address:* Observatoire de Paris, Section d'Astrophysique, 92190 Meudon; 177 rue Marceau, 91120 Palaiseau, France (Home). *Telephone:* 626-16-30.

DENKTAŞ, Rauf R.; Cypriot politician; b. 27 Jan. 1924; s. of Judge M. Raif bey; m. Ayden Munir 1949; two s. two d.; ed. The English School, Nicosia, and Lincoln's Inn, London; law practice in Nicosia 1947-49; Jr. Crown Counsel 1949, Crown Counsel 1952; Acting Solicitor-Gen. 1956-58; Pres. Fed. of Turkish Cypriot Asscns. 1958-60; Pres. Turkish Communal Chamber 1960, re-elected 1970; Vice-Pres. of Cyprus 1973-; Pres. Turkish Federated State of Cyprus 1975-. *Publications:* Secrets of Happiness 1943, Hell Without Fire 1944, A Handbook of Criminal Cases 1955, Five Minutes to Twelve 1966, The AKRITAS Plan 1972, A Short Discourse on Cyprus 1972, The Cyprus Problem 1973. *Leisure interests:* reading, writing, ■■ sports, shooting. *Address:* The Office of the President, Turkish Federated State of Cyprus, Mersin 10, Turkey.

DENMAN, Sir Roy, K.C.B., C.M.G., M.A.; British civil servant and administrator; b. 12 June 1924, Liverpool; s. of Albert Edward and Gertrude Ann Denman; m. Moya Lade 1966; one s. one d.; ed. Harrow Grammar School and St. John's Coll., Cambridge; Asst. Principal, Board of Trade 1943, Asst. Private Sec. to successive Pres. 1950-52; First Sec., Embassy, Bonn, Fed. Repub. of Germany 1957-60; mem. del., Geneva 1960-61; Counsellor, Geneva 1965-67; mem. negotiating del. with European Communities 1970-72; Deputy Sec. Dept. of Trade and Industry 1970-75; Second Perm. Sec., Cabinet Office 1975-77; Dir.-Gen. of External Relations Comm. of EEC 1977-. *Address:* Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium (Office); 26 St. Luke's Street, London, S.W.3, England (Home). *Telephone:* Belgium 7358040 (Office); 01-352 3199 (Home).

DENNERY, Etienne Roland; French diplomatist; b. 20 March 1903, Paris; s. of Georges and Amélie Dennery (née Meyer); m. Denise Fenard 1949 (died 1967); one s.; ed. Ecole Normale Supérieure, Univ. of Paris. Economic expert L.N. Study Comm., Manchuria 1932; Prof. Ecole Libre des Sciences Politiques, Paris 1932-39; Sec.-Gen. Centre d'Etudes de Politique Etrangère, Paris 1935-39; Dir. of Information, Fighting French H.Q., London 1941-42; Capt. Artillery, Fighting French Forces, Libya and Italy 1943-44; Dir. American Section, Ministry of Foreign Affairs, Paris 1945-50; Amb. to Poland 1950-54, to Switzerland 1954-61, to Japan 1961-64; Gen. Admin. of Nat. Library and Dir. French Libraries and Public Reading 1964-75; mem. UNESCO Exec. Council 1966-; mem. du Comité de direction du Centre national des lettres 1974-; Commdr. Légion d'honneur, Commdr. des Palmes academiques, etc. *Publication:* Foules d'Asie 1930. *Leisure interests:* golf, reading. *Address:* Bibliothèque Nationale, 58 rue de Richelieu, 75002 Paris; 8 rue des Petits-Champs, 75002 Paris, France (Home). *Telephone;* Richelieu 32-03.

DENNING, Baron (Life Peer), cr. 1957 of Whitchurch; **Alfred Thompson Denning,** P.C., M.A.; British lawyer; b. 23 Jan. 1899; ed. Magdalen Coll., Oxford; called to the bar, Lincoln's Inn 1923; K.C. 1938; High Court Judge 1944; Lord Justice of Appeal 1948-57; Nominated Judge for War Pensions Appeals 1945-48; Chair. Cttee. on Procedure in Matrimonial Causes 1946-47; Lord of Appeal in Ordinary 1957-62; Master of the Rolls 1962-; Chair. Cttee. on Legal Educ. for Students from Africa 1962-; Pres. Birkbeck Coll.; Treas. Lincoln's Inn 1964; Head of Security Enquiry 1963; Hon. D.C.L.

(Oxford) 1965, Hon. LL.D. (Columbia) 1976. *Publications:* Freedom under the Law 1949, The Changing Law 1953, The Road to Justice 1955, The Discipline of Law 1979. *Address:* The Lawn, Whitchurch, Hants., England.

DENNIS, Cecil Charles, Jr., A.B., LL.B.; Liberian lawyer and politician; b. 21 Feb. 1931; s. of Charles and Isabel Thomson Dennis; m. Agnes Cooper 1956; three c.; ed. Coll. of W. Africa, Lincoln Univ., Pennsylvania and George Washington Univ., U.S.A.; Legal Counsel, Dir. Legislative Drafting Service, Liberian Senate; admitted to Bar of Supreme Court of Liberia 1960; with Morgan Grimes and Harmon, law firm 1962; established C. Cecil Dennis, Jr., law firm 1965; Prof. Louis Arthur Grimes School of Law, Univ. of Liberia; mem. Liberian Codification Comm.; Chair. Board of Dirs. Bank of Liberia; Vice-Pres. LAMCO 1972-73; Hon. Consul-Gen. of Repub. of Korea; Minister of Foreign Affairs 1973-; Commdr. Order of the Star of Africa, Knight Great Band of Humane Order of African Redemption, Knight Grand Commdr. of Most Venerable Order of Pioneers, Grand Cross Commdr. Order of Orange-Nassau. *Address:* Ministry of Foreign Affairs, Monrovia, Liberia.

DENNISON, Admiral Robert Lee, B.S., M.S., D.ENG.; American naval officer; b. 13 April 1901, Warren, Pennsylvania; m. Mildred Fenton Mooney Neely 1937; one s. one d.; ed. U.S. Naval Acad., Pennsylvania; State Coll., Johns Hopkins Univ.; Ensign 1923, promoted through grades to Admiral 1959; commanded U.S.S. Ortolan 1935-37, Cuttlefish 1937-38, John D. Ford 1940-41, Missouri 1947-48; Chief of Staff, Pacific Fleet Amphibious Forces 1942-43, 9th Amphibious Fleet 1943; mem. Joint War Plans Cttee. (Joint Chiefs of Staff) 1944-45; Asst. Chief of Naval Operations (Politico-Mil. Affairs) 1945-47; Naval Aide to Pres. of U.S. 1948-53; Commdr. 4th Cruiser Div. Atlantic Fleet 1953-54; Dir. Strategic Plans Div., Asst. Chief of Naval Operations, ■■■ Joint Strategic Plans Cttee. 1954-56; Commdr. 1st Pacific Fleet 1956-58; Deputy Chief of Naval Operations (Plans and Policy) 1958-59; C.-in-C. U.S. Naval Forces, Eastern Atlantic and Mediterranean 1959-60; C.-in-C. Atlantic Command, Atlantic Fleet and NATO Supreme Allied Commdr. Atlantic 1960-63; Vice-Pres. and mem. Board Copley Press Inc. 1963-74; Dir. Atlantic Council 1966-; numerous American and overseas decorations. *Address:* 5040 Westpath Terrace, Washington, D.C. 20016, U.S.A.

DENNIER, William H.; American business executive; b. 30 Sept. 1910; ed. Iowa State Univ.; joined Gen. Electric Co. 1933; Gen. Man. Major Appliance Div. 1960; Vice-Pres. 1962; Vice-Pres. and Group Exec. of Components and Construction Materials Group Jan. 1966, Exec. Vice-Pres. and mem. President's Office, Jan. 1968; Dir., Vice-Chair. of Board and Exec. Officer, Dec. 1968-. *Address:* General Electric Co., 570 Lexington Avenue, New York, N.Y. 10022,U.S.A. (Office).

DENNY-BROWN, Derek Ernest, M.D., D.PHIL.; American neurologist; b. 1 June 1901, Christchurch, New Zealand; s. of Charles and Marian Denny-Brown; m. Sylvia Summerhayes 1937; four s.; ed. Otago and Oxford Univs.; Beit Memorial Research Fellow, Oxford Univ. 1925-28; House Officer and Registrar, Nat. Hosp., London 1928-35, Physician 1935-41; Neurologist, St. Bartholomew's Hosp., London 1936-41; Major, R.A.M. Corps 1939-41, Brig. 1945-46; Prof. of Neurology, Harvard Univ., U.S.A. 1941-46; Putnam Prof. of Neurology 1946-67, Emer. 1972-; Dir. of Harvard Neurological Unit at Boston City Hosp. 1941-67; Chief of Section on Physiology, New England Regional Primate Center 1967-72; Sherrington Medal, Royal Soc. of Medicine 1962, Order of Unanue (Peru) 1963, Jacoby Award, American Neurological Assn. 1968; Hon. O.B.E. 1941; Hon. F.R.S.M., Hon. Fellow of Magdalen Coll. Oxford, Hon. LL.D. (Wayne Univ.) 1959, (Glasgow Univ.) 1971, Hon. D.Sc. (Otago Univ.) 1969, Hon. D.F.L. (Jefferson Univ.) 1977. *Publications:* Diseases of Muscle (co-author) 1953, The Basal Ganglia and Their Relation to Disorders of Movement 1962, The Cerebral Control of Movement 1966, five other books, papers in journals of neurology and neurophysiology. *Leisure interest:* sailing. *Address:* 3 Mercer Circle, Cambridge, Mass. 02138, U.S.A.

DENSON, John Boyd, C.M.G., O.B.E.; British diplomatist; b. 13 Aug. 1926, Sunderland, Co. Durham; only s. of late George Denson and Alice Denson; m. Joyce Myra Symondson 1957; ed. Perse School and St. John's Coll., Cambridge; army service, Royal Artillery and Intelligence Corps 1944-48; St. John's Coll., Cambridge 1948-51; joined British Foreign Service 1951, served Hong Kong 1951-52, Tokyo 1952-53, Peking 1953-55, London 1955-57, Helsinki 1957-59, Washington 1960-63, Laos 1963-65; Asst. Head of Far Eastern Dept., Foreign Office, London 1965-68; Chargé d'Affaires a.i., Peking 1969-71, Chargé d'affaires en titre 1971; Royal Coll. of Defence Studies, London 1972; Counsellor and Consul-Gen., Athens 1973-77; Amb. to Nepal 1977-. *Leisure interests:* looking at pictures, the theatre and wine. *Address:* British Embassy, P.O. Box 106, Lain Chaur, Kathmandu, Nepal; 19 Gainsborough Court, College Road, Dulwich, London, S.E.21, England (Home). *Telephone:* 01-693 8361. (Home).

DENT, Frederick; fmr. American government official; b. 17 Aug. 1922, Cape May, N.J.; s. of late Magruder Dent and of Edith Baily Dent; m. Mildred C. Harrison 1944; two s. three d.; ed. St Paul's School, Concord, N.H., Yale Univ.; U.S. Navy, Pacific Theater, World War II, with rank of Lieut.; joined Mayfair Mills, Arcadia 1947, Pres. Mayfair Mills 1958-, Dir. and Treas. 1977-; Chair. Spartanburg South Carolina, County Planning and Devt. Comm. 1960-73; Dir. S.C. Textile Mfg. Assn., American Textile Mfg. Inst., ARMCO Steel Co., Int. Paper Co., S.C. Johnson and Son Inc., S.C. Corpn., Joshua L. Baily and Co. Inc.; fmr. Dir. Gen. Electric Co., S.C. Nat. Bank, Scott Paper Co., Mutual Life Insurance Co. of New York; fmr. mem. Gates Comm. on All-Volunteer Armed Force 1969-70; Sec. of Commerce 1973-75; Special Rep. of U.S. Govt. for Trade Negotiations 1975-77. *Leisure interests:* golf, tennis, bowls, swimming. *Address:* Mayfair Mills, Arcadia, S.C. 29320 (Office); 19 Montgomery Drive, Spartanburg, S.C. 29320, U.S.A. (Home). *Telephone:* 803-576-2610 (Office).

DEN UYL, Dr. Johannes ("Joop") Marten; Netherlands politician; b. 9 Aug. 1919, Amsterdam; m.; seven c.; ed. Univ. of Amsterdam; fmrly. Councillor, Municipal Council of Amsterdam; Minister of Econ. Affairs 1965-66; Leader of the Opposition, Second Chamber 1967-73; Prime Minister and Minister of Gen. Affairs 1973-77; Partij van de Arbeid (Labour). *Address:* Partij van de Arbeid, Tesselschadestraat 31, Amsterdam-West, Netherlands (Office).

DE OLIVEIRA CAMPOS, Roberto; Brazilian diplomatist; b. 17 April 1917, Cuiabá, Mato Grosso; s. of Waldomiro de Oliveira Campos and Honorina de Oliveira Campos; m. Maria Stella Tambellini de Oliveira Campos; two s. one d.; ed. Catholic Seminaries of Guaxupé and Belo Horizonte; George Washington Univ., Columbia Univ., N.Y., and New York Univ.; entered Brazilian Foreign Service 1939; Econ. Counsellor to Brazil, U.S.A. Econ. Devt. Comm. 1951-53; Dir., Gen. Man. and Pres. of Nat. Econ. Devt. Bank 1952-59; Sec.-Gen. Nat. Devt. Council 1956-59; Prof. of Money and Banking and Business Cycles, School of Econs., Univ. of Brazil 1956-61; Roving Amb. for Financial Negotiations in W. Europe 1961; Amb. to U.S.A. 1961-63; Minister of State for Planning and Co-ordination 1964-67; Amb. to U.K. March 1975-; mem. Inter-American Cttee. for the Alliance for Progress 1964-67; Pres. Inter-American Council of Commerce and Production 1968-70; mem. Board of Govs. Int. Devt. Research Centre, Board of Dirs. Resources for the Future, Inc.; numerous Brazilian and foreign orders and decorations. *Publications:* Ensaios de História Econômica ■ Sociologia Economia, Planejamento ■ Nacionalismo, A Moeda, O Govêrno ■ o Tempo, A Técnica e o Riso, Reflections on Latin American Development, Do outro lado da cerca, Temas e Sistemas, Ensaios contra ■ maré, Política Econômica e Mitos Políticos; co-author: Trends in International Trade (GATT report), Partners in Progress (report of Pearson Cttee., IBRD), A Nova Economia Brasileira, Formas Criativas No Desenvolvimento Brasileiro; technical articles and reports in journals. *Address:* Embassy of Brazil, 32 Green Street, London, W.1 (Office); 54 Mount Street, London, W.1, England (Home). *Telephone:* 01-499 0877 (Office); 01-629 0507 (Home).

DE OLIVEIRA FIGUEIREDO, João Baptista; Brazilian army officer; b. 15 Jan. 1918, Rio de Janeiro; s. of Euclydes and Valentina de Oliveira Figueiredo; m. Dulce Maria de Castro Figueiredo 1942; two s.; ed. Colégio Militar de Porto Alegre, Colégio Militar do Rio de Janeiro, Acad. Militar das Agulhas Negras; Instructor, Escola Militar do Realengo, Acad. Militar das Agulhas Negras, Escola de Aperfeiçoamento dos Oficiais, Escola de Comando e Estado-Major de Exército, Escola Superior de Guerra 1954-55, 1961-64; mem. Mil. Mission to Paraguay 1955-57; Commdr. Fôrça Pública, State of São Paulo 1966-67; Commdr. 1st Regiment, Guards' Cavalry 1967-69; Gen. and Chief of Staff, 3rd Army 1969; Chief of Pres. Mil. Household 1969-74; Sec.-Gen. Council of Nat. Security; many orders and medals incl. Medalha Militar, Medalha de Guerra, Medalha Honorífica (Paraguay), etc. *Leisure interest:* horse racing. *Address:* Granja do Torto, Brasília, D.F., Brazil. *Telephone:* 23-7755.

DE ORIOL Y URQUIJO, Antonio Maria; Spanish lawyer and politician; b. 15 Sept. 1913; ed. Stonyhurst Coll., England, and Universidad Central de Madrid; Captain in civil war; later in private business; Dir.-Gen. of Charities and Social Works 1957-65; fmr.Pres.Supreme Assembly of Spanish Red Cross; Minister of Justice 1965-74; Pres. of the Council of State 1974-; Gran Cruz del Mérito Civil and other decorations. *Address:* Finca Valgrande, El Plantio (Madrid), Spain.

DE PEYER, Gervase, A.R.C.M.; British clarinettist and conductor; b. 11 April 1926; s. of Esme Everard Vivian de Peyer and Edith Mary Bartlett; m. 1st Sylvia Southcombe 1950 (divorced 1971), one s. two d.; m. 2nd Susan Rosalind Daniel 1971; ed. King Alfred's School, London, Bedales School and Royal Coll. of Music, London; studied in Paris 1949; Int. soloist 1949-; Founder-mem. and Dir. Melos Ensemble; Principal Clarinet, London Symphony Orchestra 1955-72; Musical Dir. Melos Sinfonia; Dir. London Symphony Wind Ensemble; Assoc. Conductor Haydn Orchestra of London; solo clarinettist, Chamber Music Society of Lincoln Center, New York; recording artist with all major companies; gives recitals and master classes throughout the world; Gold Medallist Worshipful Company of Musicians 1948, Charles Gros Grand Prix du Disque 1961, 1962, Plaque of Honor for Acad. of Arts and Sciences of America for the recording of Mozart concerto 1962. *Leisure interests:* theatre, good food, anything dangerous. *Address:* 16 Langford Place, St. John's Wood, London, N.W.8, England. *Telephone:* 01-624 4098.

DE POUS, Jan Willem; Netherlands politician; b. 23 Jan. 1920, Aalsmeer; s. of Theunis de Pous and Aagje Maarse; m. Greta van Itterzon 1951; one s. two d.; ed. Amsterdam Univ. and Northwestern Univ., Chicago; on staff of Trouw 1943-46; mem. Board, Christian Nat. Press Org. for Neths. 1945-; Sec. and Econ. Adviser, Protestant Employers' Org. in the Netherlands 1949-59; Lecturer Econ. Theory, Free Univ. of Amsterdam 1953-59; mem. Council of State 1958-59; Minister of Econ. Affairs May 1959-63; Pres. Social-Econ. Council 1964-, Cen. Cttee. on Hospital Tariffs 1964; Pres. Mining Council 1967-; Adviser Govts. of Suriname and Dutch Antilles 1966-74; Pres. Del. Dutch-Belgian Joint Venture Baalhoek canal 1969-75; Christian-Historical Union; Pres. of Supervisory Boards, K.L.M. Royal Dutch Airlines 1964-, Philips, R.S.V. Engineering Works and Shipyards, B.A.M. Batavian Contracting Co., I.C.U. Information and Communication Co.; Hon. D. Econ. 1977; numerous decorations. *Address:* c/o Social-Economic Council, Bezuidenhoutseweg 60, The Hague; Van Zaeckstraat 1965, The Hague, Netherlands (Home). *Telephone:* 070-814341 (Office); 070-241575 (Home).

DEPREUX, Edouard Gustave; French lawyer and politician; b. 31 Oct. 1898, Viesly (Nord); s. of Hector Depreux and Marie Poulit; m. Françoise Monroy 1921; one s. one d.; ed. Faculties of Letters and Law, Paris; Del. to Provincial Consultative Assembly 1944; Mayor of Sceaux 1944-59; Deputy to Constituent Assembly 1946-58, Minister of the Interior 1946-47, of Nat. Educ. Feb.-April 1948; Pres. Socialist Party, Nat. Assembly 1946-56; fmrly. Pres. of High Court of Justice; Nat. Sec. Parti Socialiste Unifié 1960-67, Hon. Nat. Sec. 1967-; Croix de guerre (1914-18 and 1939-45), Médaille de la Résistance avec rosette. *Publications:* Renouvellement du socialisme, La Chine nouvelle et son héritage, Souvenirs d'un militant 1972, Servitude et grandeur du P.S.U. 1974. *Address:* 13 rue Linois, Apartement 2202, 75015 Paris, France.

DEQUAE, André, L. ÈS SC.ECON.; Belgian politician; b. 3 Nov. 1915, Kortrijk; s. of F. Paul and M. Elodie Soen; m. Agnes Vandemoortele 1940; three s. three d.; ed. Louvain Univ.; mem. Chamber of Reps. 1946-, Vice-Pres. 1958-60, First Vice-Pres. 1965-74, Pres. 1974-77; Minister of Reconstruction 1950, of Colonies 1950-54, of External Trade 1958, of Econ. Co-ordination 1960-61, of Finance 1961-65; Pres. of Belgian Farmers' Union; mem. Council of Europe and WEU; Christian Social Party; Commdr. de l'Ordre de Léopold, Médaille de la Résistance, Médaille du Souvenir. *Leisure interests:* books, swimming. *Address:* Sint Elooidreef 36, Kortrijk, Belgium. *Telephone:* 056-351999.

DE QUAY, Jan Eduard, D.LITT.; Netherlands politician; b. 1901, 's-Hertogenbosch; m. Maria Van der Lande 1927; five s. four d.; ed. Utrecht Univ. Lecturer and later Prof. Tilburg Roman Catholic Univ. 1934-46; Labour Org. Commr. 1940; leader Netherlands Union 1940-41; prisoner 1942-43; Minister of War 1945; Prov. Governor North Brabant 1946-59; Prime Minister and Minster of General Affairs 1959-63; Chair. of Board of Dirs. K.L.M. 1964-72; Commdr. Order Orange-Nassau, Commdr. Order Netherlands Lion, etc. *Leisure interests:* history, psychology. *Address:* c/o Eerste Kamer der Staten-Generaal, 's-Gravenhage, Binnenhof 1921-23, The Netherlands.

DE RANITZ, Jonkheer Johan Antoni; Netherlands diplomatist; b. 30 June 1915; ed. Univ. of Leiden; entered diplomatic service 1940; has served in Canberra, Batavia, Berne, and Cairo; Deputy Perm. Rep. to N. Atlantic Council 1957; Amb. and leader of del. negotiating admission of new members to EEC 1962; Amb. to U.A.R. 1963; Dir.-Gen. Dept. of Political Affairs, Ministry of Foreign Affairs, The Hague 1964-70; Amb. to France 1970-. *Address:* Ambassade des Pays-Bas, 85 rue de Grenelle, 75007 Paris, France.

DERNESCH, Helga; Austrian opera singer; b. 3 Feb. 1939, Vienna; m.; two c.; sang many operatic roles in Berne 1961-63, Wiesbaden 1963-66, Cologne 1966-69; guest appearance with Deutsche Oper Berlin; regular appearances at Bayreuth Festival 1965-69, at Salzburg Easter Festival 1969-73; has sung in operas and concerts throughout Europe and U.S.A.; many recordings. *Leisure interests:* riding, hunting, literature. *Address:* c/o Music and Arts SA, Tobelhofstrasse 2, 8044, Zurich, Switzerland.

DE ROBERTIS, Eduardo Diego Patricio, M.D.; Argentine histologist, cytologist and embryologist; b. 11 Dec. 1913; ed. Univ. de Buenos Aires. Rockefeller Fellow, Chicago and Johns Hopkins Univs. 1940, 1944; at Biophysical Laboratory, Rio de Janeiro 1943; Dir. Dept. of Cellular Ultrastructure, Inst. de Investigaciones de Ciencias Biológicas 1946; Lecturer in Physiology, Texas Univ. 1952; Walker-Ames Prof. Univ. of Washington (Seattle) 1953; Prof. Histology, Univ. de Buenos Aires 1957, now Prof. Cytology, Histology and Embryology; Dir. Inst. de Anatomía Gen. y Embriología 1957, now Dir. Inst. de Biología Celular, Faculty of Medicine, Univ. de Buenos Aires; mem. Argentine Acad. of Sciences, Argentine Research Counil, American Acad. of Neurology, American Soc. for Neurochemstry; Fellow, New York Acad. of Sciences; Mitre Inst. Award, Van Meeter Award, Argentine Nat. Prize, Buenos Aires Gold Medal, hell Foundation Prize 1969; Dr. h.c. (Loyola Univ.); Hon. mem. merican Coll. of Physicians, Nat. Acad. of Sciences, Pan American cal Assen. *Publications:* Citologia General 1946, 1952, 1955 English trans 1948, 1954, Japanese trans. 1955, Russian trans. 1962; since 1965 appears as Cell Biology); Histophysiology of Synpses and Neurosecretion 1946 (French trans.), Cell Biology 5th edn. (translated into Spanish, Italian, Russian, Hungarian, Polish), ynaptic Receptors: Isolation and Molecular Biology, Modern macology-Toxicology, Vol. 4 1975; more than 300 papers on cytology, thyroid gland, electromicroscopy, neurology and neuro-chemistry. *Address:* Instituto de Biología Celular, Facultad de Medicina, Paraguay 2155, 2°, Buenos Aires, Argentina. *Telephone:* 83-9180 and 83-8989.

DEROBURT, Hammer; Nauru politician. Head Chief of Nauru; Pres. of Nauru 1968-67, April 1978-; Leader of the Opposition 1976-78. *Address:* Office of the President, Nauru, Central Pacific.

DERTHICK, Lawrence Gridley, Snr., B.A., M.A., LL.D.; American administrator and educationist; b. 23 Dec. 1906, Hazel Green, Kentucky; s. of Henry J. and Pearl S. Derthick; m. Helda L. Hannah 927; two s. one d.; ed. Univs. of Tennessee, Clumbia and Chattanooga; has held many educational appointments since 1927; U.S. Commr. of Educ., Dept. of Health, Educ. and Welfare 1956-61; Asst. Exec. Sec. for Professional Devt. and Instructional Services, at. Educ. Assen. of U.S. 1961-71; Educ. Consultant 1972-. *Publications:* Be Safe and Live (co-author); numerous educ. and other works. *Leisure interests:* travel, volunteer service in civic and international activities. *Address:* P.O. Box 817, 699 Prince Street, Suite 102, Alexandria, Va. 22314, U.S.A. *Telephone:* (703) 836-7572.

DE RUITER, Jacob (Job); Netherlands lawyer and politician; b. 1930; ed. Univ. of Utrecht. Judge, later District Judge, Court of Zutphen; Prof. of Civil Law, Vrije Universiteit, Amsterdam, Principal 1976-; Minister of Justice Dec. 1977-; mem. Anti-Revolutionary Party. *Address:* Ministry of Justice, The Hague, Netherlands.

DE SAEGER, Jozef; Belgian accountant and politician; b. 1911, Boom, Province of Antwerp. Accountant; Christian Social Deputy 1949-74; Minister of Public Works 1965-1973, of Public Health and Environment Jan.-Sept. 1973, of Public Health, Environment and Family 1973-74, of Public Health and Family Affairs 1974-77; Pres. Confed. of Caritas Insts. for Health and Social Welfare 1977-; Minister of State 1978-. *Address:* 14 Willem Geetsstraat, 2800 Mecheeln, Belgium.

DESAI, Hitendra Kanaiyalal, B.A., LL.B.; Indian politician; b. 9 Aug. 1915 in Surat; s. of Kanaiyalal Desai and Mrs. Malvikaben; m. Mrs. Sagunaben 1954; ed. Bombay Univ. Faculties of Economics and Law; took part in anti-British political activities; imprisoned 1930, 1941, 1942-43; set up private legal practice in Surat 1939; elected mem. Surat Municipal Council 1939-57; mem. Bombay Legislative Assen. 1957-60; Minister of Educ., Bombay 1957-60; Minister of Revenue, Gujarat State 1960, later Home Minister; Leader of the House Gujarat Assembly 1960; Chief Minister of Gujarat 1965-72; mem. Congress Party, elected to Supreme Exec. 1968; Pres. Gujarat Pradesh Congress Cttee. 1975-; Minister of Works and Housing 1976-77; elected to House of the People of the Indian Parl. from Godhra constituency (Gujarat) 1977; Treas. All India Congress Cttee. 1978. *Address:* 1 Shahibaug, Ahmedabad 4, Gujarat, India.

DESAI, Khandubhai Kasanji; Indian politician; b. 23 Oct. 1898 Bulsar, Gujarat; ed. High School Bulsar and Wilson Coll.; joined Non-co-operation Movement under Gandhi 1920; graduated from Gujarat Vidyapith Nat. Inst. and taught for some time; with Labour Union, Ahmedabad 1921; Asst. Sec. Textile Labour Assen., now Gen. Sec.; spread a network of unions throughout Gujarat; imprisoned 1932-33; elected to Bombay Assembly 1937 and to Constituent Assembly 1946; served with many cttees. in the Ministries of Commerce, Industries, Railways and Labour; mem. of Congress Working Cttee., Industrial Finance Corpn. and Employers' State Insurance Corpn.; founded Indian Nat. Trade Union Congress 1947, Pres. for three years, and fmr. Gen. Sec.; Minister of Labour 1954-57; mem. Fiscal Cttee. 1948; Chair. Oil India Ltd. 1961-68; mem. first Nat. Defence Council, Board of Trade, Gujarat Devt. Corpn.; Gov. of Andhra Pradesh 1968-75. *Address:* Raj Bhavan, Hyderabad-41, Andhra Pradesh, India.

DESAI, Shri Morarji Ranchhodji; Indian politician; b. 29 Feb. 1896, Bulsar, Gujarat; s. of Shri Ranchhodji Desai and Smt. Vajiyaben; m. Smt. Gajraben Desai 1911; one s. one d.; ed. Wilson Coll., Bombay Univ.; served in the Provincial Civil Service, Govt. of Bombay 1918-30; joined Civil Disobedience Movement led by Mahatma Gandhi 1930, convicted twice 1930-34; mem. All-India Congress Cttee. 1931-69, Treas. 1950-58, Sec. Gujarat Pradesh Congress Cttee. 1931-37, 1939-46; Minister for Revenue, Co-operation, Agric. and Forests 1937-39; imprisoned in the Quit India Movement 1940-41, detained 1942-45; Home and Revenue Minister, Bombay 1946-52; Chief Minister of Bombay 1952-56; Minister for Commerce and Industry 1956-58, for Finance 1958-63; resigned from Govt. to work for Congress Org. 1963; Chair. Admin. Reforms Comm., Govt. of India 1966-67; Deputy Prime Minister and Minister of Finance 1967-69; Chair. Parl. Group Congress Party (Opposition) 1969-77; arrested 1975-77; Chair. and Leader Janata Party (electoral alliance of 4 non-communist opposition parties) 1977-; Prime Minister of India March 1977-, also Minister for Atomic Energy, Space, Electronics, Science and Tech.; mem. Lok Sabha 1957-; Chancellor, Gujarat Vidyapeeth, Ahmedabad and Jawaharlal Nehru Univ.; Pres. Lok Bharati Univ.; mem. and Chair. numerous trusts; Hon. Fellow, Coll. of Physicians and Surgeons, Bombay; Hon. LL.D. (Karnatak Univ. 1957, Utkal Univ., Cuttack 1962). *Publications:* A View of the Gita, In My View, A Minister and His Responsibilities, The Story of My Life, Indian Unity: From Dream to Reality *Leisure interests:* spinning, sports, music. *Address:* 1 Safdarjung Road, New Delhi 110011; Oceana, Marine Drive, Bombay, India.

DESAILLY, Jean; French actor; b. 24 Aug. 1920, Paris; ed. Paris Ecole des Beaux Arts. Pensionnaire, Comédie Française 1942-46; mem. Renaud-Barrault Company 1947-68; Dir. Théâtre Jacques Hébertot 1972-; mem. Council for Cultural Devt. 1971-73; *plays include:* La nuit du diable, Le bossu, Malatesta, Le procès, On ne badine pas avec l'amour, Le château, Madame Sans-Gène, Tête d'or, La cerisaie, Le marchand de Venise, Comme il vous plaira, Hamlet, Andromaque, Le soulier de satin, Il faut passer par les nuages, Le mariage de Figaro, Brève rencontre, Un ami imprévu, Double jeu, Le légume; Co-Dir. Tout dans le jardin; *films include:* Le père Goriot, La symphonie pastorale, Le point du jour, Occupe-toi d'Amélie, Si Versailles m'etait conté, Les grandes manoeuvres, Maigret tend un piège, Les grandes familles, Le baron de l'ecluse, Plein soleil, La mort de belle, Un soir sur la plage, Les sept péchés capitaux, Les amours célèbres, L'année du bac, La peau douce, Le doulos, Les deux orphelines, Le franciscain de Bourges, L'Ardoise, Comptes à rebours, L'Assassinat de Trotsky, Un flic. *Address:* 53 quai des Grands Augustins, 75006 Paris, France.

DESAZARS DE MONTGAILHARD, Baron **(Jacques);** French company executive; b. 21 May 1923, Epernay; s. of Jean Baron Desazars de Montgailhard and Francoise Dumast; m. Geneviève de Nicolay 1950; three s.; ed. St. Louis de Gonzague, Paris, Univs. of Paris and Toulouse, Ecole nat. d'admin.; served in resistance in World War II, Sub-lieut., wounded; Prof. Inst. des Etudes Politiques de Paris 1947-68; Finance Ministry 1947-53; Gen. Sec. and Dir. Banque Union Européenne 1953-60; Financial Dir., Deputy Man. Dir. Schneider S.A. 1960-69; Man. Dir. Ugine Kuhlmann 1969-71; Deputy Man. Dir. and then Man. Dir. Péchiney Ugine Kuhlmann 1972-75, Pres. 1975-; Chair. Péchiney Ugine Kuhlmann Corpn., New York, N.Y. 1975-; mem. Econ. and Social Council 1970-71; Commdr. Légion d'honneur, Croix de guerre, médaille de la Résistance française. *Address:* Péchiney Ugine Kuhlmann, 23 rue Balzac, 75008 Paris, France. *Telephone:* 563-11-00.

DESBORDES, Joseph-Noël; French steel executive; b. 23 Dec. 1898; ed. Ecole Polytechnique. Pres.-Dir.-Gen. Havre Drawing and Rolling Mills until 1962; Vice-Pres. Dir.-Gen. Tréfimétaux (merger of Havre Drawing and Rolling Mills and French Metal Co.) 1962-67, Pres. 1967, Hon. Pres. 1970-; Man. Cie. Péchiney 1970-, Soc. Péchiney-Ugine-Kuhlmann 1972-; Officier, Légion d'honneur. *Address:* Péchiney-Ugine-Kuhlmann, 23 rue Balzac, 75008 Paris (Office); 17 Avenue Paul Doumer, 78 Chatou (Seine-et-Oise), France (Home).

DESBRIÈRE, Georges; French business executive; b. 25 Nov. 1901; ed. Ecole Centrale des Arts et Manufactures and Ecole Supérieure d'Electricité. Engineer, Compagnie Française des Métaux 1925-32, Sec.-Gen. 1932-38, Dir.-Gen. 1938-47, Administrator Dir.-Gen. 1947-52, Vice-Pres. Dir.-Gen. 1952-56, Pres. Dir.-Gen. 1956-62, Pres. of Société Tréfimétaux (merger of Tréfileries et Laminoirs du Havre and Compagnie Française des Métaux) 1962-67, now Hon. Pres. Seichimé; Vice-Pres. of Péchiney 1967; Vice-Pres. Soc. Péchiney-Ugine-Kuhlmann 1971-75, Pres.-Dir.-Gen. 1967-72; Administrator Tréfimétaux GP, Cegedur GP and Scal GP, of Crédit Industriel et Commercial, Sidelor, Comptoir Lyon-Allemand, Pres. Chamber of Commerce and Industry, Paris 1960-63; mem. Conseil Economique et Social 1964-74; Commdr. Légion d'honneur, Commdr. du Mérite Commercial et du Mérite Touristique. *Address:* 6 rue de l'Amiral-Courbet, 75116 Paris, France.

DESCAMPS, Albert Louis; Belgian theologian and university official; b. 27 June 1916, Escanaffles, s. of Fidèle Descamps and Mélanie Dumonchaux; ed. Collège St.-Léon, Bruges, Petit Séminaire de Bonne-Espérance, Université Catholique de Louvain and Institut Biblique Pontifical, Rome. Prof., Great Seminary of Tournai 1947-55; Lecturer, Univ. Catholique de Louvain 1952; Prof., Faculty of Theology, Univ. Catholique de Louvain 1953-60, 1969–; Pres. Institut Supérieur des Sciences Religieuses 1954-60; Pres. Holy Ghost Coll. 1956-60; Rector, Univ. Catholique de Louvain 1962, Rector Magnificus 1964, Hon. Rector Magnificus 1970-; Titular Bishop of Tunis 1960-; Sec. Papal Biblical Comm. 1973-; mem. Studiorum Novi Testamenti Societas, Cambridge 1957-; mem. Société des Sciences, des Arts et des Lettres du Hainaut, Société des Sciences, des Arts et des Lettres du Hainaut, Société scientifique de Bruxelles; Commandeur Ordre de Léopold. *Publications:* books and numerous articles. *Leisure interest:* history. *Address:* 13 Oude Markt, B-3000 Louvain, Belgium. *Telephone:* 016-220431.

DESCH, Kurt; German publisher; b. 2 June 1903; ed. Oberrealschule; fmrly. in advertising and journalism including Frankfurter Zeitung and Dortmunder General-Anzeiger; expelled from Reichsschrifttumskammer 1936; with Zinnen-Verlag, Vienna and Munich 1941-44; escaped to Tirol 1944; took over Zinnen-Verlag and founded his own firm, Kurt Desch, Munich, and Theaterverlag Kurt Desch Nov. 1945 (branches in Basel and Vienna 1953); founded Deutscher Laienspielverlag, Weinheim 1947, Welt im Buch 1953, Kurt Desch Film G.m.b.H., Munich 1957. *Address:* Desch-Insel der Romanstrasse 7-9, Munich 19, Federal Republic of Germany.

DESHMUKH, Chintaman Dwarkanath, B.A.; Indian administrator and banker; b. 14 Jan. 1896, Nata District Kolaba Maharashtra; s. of Dwarkanath Ganesh Deshmukh and Bhagirathi Deshmukh; m. 1st Rosina Silcox 1920 (died 1949); 2nd G. Durgabai 1953; one d.; ed. Elphinstone Coll., Bombay, and Jesus Coll., Cambridge; served in Central Province and Berar as Asst. Commr. Under-Sec. to Govt.; Deputy Commr. and Settlement Officer 1919-30; Sec. to second Round Table Conf. 1931; Revenue and Financial Sec. Govt. of Central Province and Berar 1932-39; Joint Sec. Dept. of Education; Health and Lands Officer on Special Duty, Finance Dept.; Custodian Enemy Property April-Oct. 1939; Sec. Central Board of the Reserve Bank of India 1939-41; Deputy Gov. Reserve Bank of India 1941-43; del. World Monetary Conf. 1944; Gov. Reserve Bank of India 1943-49; Pres. Indian Statistical Inst., 1945-64; Gov. for India on Int. Monetary Fund and Int. Bank for Reconstruction and Development 1946-49; Financial Rep. of Govt. of India in Europe and America 1949-50; mem. Planning Comm.; Minister of Finance Govt. of India 1950-56; Chair. Int. Monetary Fund and Int. Bank for Reconstruction and Development 1950; Chair. Univ. Grants Comm. 1956-61; Chair. Nat. Book Trust 1957-60; Chair. Admin. Staff Coll. of India, Hyderabad 1960-73; Pres. India Int. Centre, New Delhi 1959-; Vice-Chancellor, Univ. of Delhi 1962-67; mem. Board of Trustees, UN Inst. for Training and Research 1965-70, Vice-Chair. 1966-70; Chair. Central Sanskrit Board 1967-68; Pres. Indian Inst. of Econ. Growth 1965-74; Pres. Council for Social Devt. 1966-; Pres. Population Council of India 1970-; Barrister at Law; Hon. Fellow, Jesus College, Cambridge 1952; Hon. LL.D. (Univ. Princeton, New Jersey, Leicester and 13 Indian univs.); Ramon Magsaysay Award 1959. *Publications:* The Course of My Life 1974, Bhagavadgita 1976, Gems from the Amara

Kosha 1976, Dhammapada 1977. *Leisure interests:* social work, gardening. *Address:* "Rachana", 2-2-18/50 Central Training Institute, Hyderabad 500768, Andhra Pradesh, India. *Telephone:* 71323.

DESHMUKH, Shantaram Dwarkanath, M.A., B.SC.; Indian economist; b. 3 Oct. 1919, Roha, Maharashtra; s. of Dwarkanath Ganesh Deshmukh; m. Kamalini Jayavant 1943; one s.; ed. Univs. of Bombay and Cambridge. Research Officer, Reserve Bank of India 1948-51, Private Sec. to Gov. 1951-53, Deputy Dir. Research Dept. 1953-58, Dir. Int. Finance Div. 1958-60, Man. London Branch 1961-63, Sec. to Cen. Board 1963-66, Exec. Dir. Jan.-June 1977; Exec. Trustee, Unit Trust of India 1966-74; Adviser to Bank of Sierra Leone 1974-76; Exec. Dir. IMF for India, Bangladesh, Sri Lanka June 1977-. *Publications:* trans. of The Village Had no Walls 1956, short stories, tech. articles, book reviews, etc. *Address:* The Irene, 6701 Willard Avenue, Chevy Chase, Md. 220015, U.S.A. *Telephone:* (301) 654-0381.

DESIO, Ardito, DR.RER.NAT., F.D.S., F.R.G.S., F.M.G.S.; Italian geologist, geographer and explorer; b. 18 April 1897, Palmanova, Udine; s. of Antonio Desio and Caterina Zorzella; m. Aurelia Bevilacqua 1932; one s. one d.; ed. Dept. of Natural Science, Univ. of Florence. Lecturer of Geology, Univ. of Milan 1926-31; Prof. of Geology, Univ. of Milan 1931; Dir. Inst. of Geology, Univ. of Milan, now Prof. Emer.; led seventeen overseas exploratory expeditions and scientific missions in Libya, Sahara, Ethiopia, Jordan, Iran, Afghanistan, Pakistan (Karakoram), India, Philippines, Burma, Antarctica; leader of the successful expedition to K2 (28,250 feet), second highest peak in the world 1954; mem. Acad. Nazionale dei Lincei; Hon. mem. Italian Geog. Soc., Geol. Soc., London, Gesellschaft für Erdkunde, Berlin, Soc. Belge de Géologie, Indian Paleontological Soc., Faculty of Sciences, Univ. of Chile. Patron's Medal (U.K.), Antarctic Service Medal (U.S.A.), Gold Medal of Pakistan, Knight Grand Cross (Italy); numerous other awards. *Publications:* 364 publs. including a number of vols. about the geology and geography of Libya, Aegean Islands, Eastern Alps, Karakoram Range (Himalaya), Hindu Kush Range, Afghanistan, a monograph on the glaciers of Ortles-Cevedale massif, a treatise of geology applied to engineering, a vol. on the geology of Italy, seven vols. of scientific reports on expeditions, etc. *Leisure interests:* mountaineering, photography. *Address:* Istituto di Geologia, Piazza Gorini 15, 20133 Milan; Viale Maino 14, 20129 Milan, Italy (Home). *Telephone:* 292813 (Office); 709845 (Home).

DE SITTER, Lamoraal Ulbo, D.SC.; Netherlands geologist; b. 6 March 1902, Groningen; s. of Prof. Dr. Willen de Sitter and E. Suermondt; m. 1st Ingrid Frick 1926; 2nd C. M. Koomans 1942; three s. two d.; ed. Universität Zürich, Univ. de Lausanne and Rijksuniversiteit te Leiden; military service 1925-26; field geologist, Bataafse Petroleum Mij. (Royal Dutch Shell), Borneo 1926-29; field geologist Shell Oil Co., Venezuela 1929-31; in Hague Office, Shell 1932; Chief Geologist, Java, Bataafse Petroleum 1933-34; Univ. of Leiden 1934-; Prof. of Structural and Applied Geology 1948-68; mem. Royal Netherlands Acad. of Science; Hon. mem. Royal Irish Acad. (Science Section); Foreign mem. Geol. Soc. of London; Hon. mem. Soc. Belge de Géologie, de Paléontologie et d'Hydrologie, Geol. Soc. of America. *Publications:* Structural Geology 1964, Geology of the Bergamasc Alps 1949, Geologic Maps of Central Pyrenees (1:50,000, sheets 1, 2, 3, 4, 5, 6, 7, 8), Geologic Maps of the Paleozoic of the Cantabrian Mountains (1 : 50,000, 4 sheets), Variation in Tectonic Style 1963, Hercynian and Alpine Orogenies in N. Spain 1965. *Leisure interests:* wood carving and sculpture, gardening. *Address:* Geological Institute, University of Leiden, Garenmarkt 1B, Leiden Maxend 66, Nistelrode (N. Br.), Netherlands. *Telephone:* 04124-444.

DESNUELLE, Pierre Antoine Edouard; French biochemist; b. 8 Aug. 1911; ed. Lycée Ampère, Lyons, and Univs. of Lyons, Heidelberg and Cambridge. Prof. of Biochemistry, Univ. de Marseilles 1946-, Dir. Inst. of Biochemistry, Faculty of Sciences, Marseilles 1961-; mem. Nat. Cttee. on Scientific Research 1948-; Pres. of Soc. of Biochemistry 1960-; Sec. Gen. Int. Union of Biochemistry; mem. Institut de France (Sciences); Officier, de la Légion d'honneur, Officier de l'Ordre Nat. du Mérite, Chevalier des Palmes académiques. *Address:* 17 avenue du Colonel-Sérot, 13 Marseille (8e), France.

DE SOUZA, Wilfred Raoul Eugène; Benin diplomatist; b. 18 April 1935, Ouidah; s. of Pierre E. de Souza and Angèle Ninaggioli; m. Francine Antonini 1963; one d.; ed. Univ. de Paris. Diplomatic intern, French Ministry of Foreign Affairs and French Embassy, Vienna 1960; Second Sec. Embassy of Dahomey, Bonn 1961-64; First Sec., Paris 1964-68; Sec. Gen. Dahomey Ministry of Foreign Affairs (with Rank of Minister Plenipotentiary) 1968-70; Chief, Dahomey del. to Franco-Dahomey Comm. on Econ. Co-operation 1967; del. to various int. confs. including sessions of Council of Ministers of OAU, and UN Gen. Assembly; Perm. Rep. to UN, concurrently Amb. to U.S.A. 1970-73; Amb. to France 1973-76, also accred. to Algeria, Italy, Malta, Spain and U.K.; Chevalier Ordre Nat. du Dahomey, Légion d'honneur and other hons. *Address:* c/o Ministère des Affaires Etrangères, Cotonou, Benin.

DE STAERCKE, Roger; Belgian industrial official; b. 1902. Pres. Fed. of Belgian Industries 1962-70; fmr. Vice-Pres. Gen. Council of Econs., Nat. Council of Labour; Hon. Regent Nat. Bank of Belgium; fmr. Pres. Board of Dirs., Belgian Office of Foreign Trade; fmrly. Administrator Office of Nat. Export Credits Guarantee; Chair. Econ. and Social Cttee., European Econ. Community and Euratom 1958-60, Vice-Chair. 1960-62; Hon. Pres. Fed. of Belgian Industries 1970-. *Address:* Fédération des Entreprises de Belgique, 4 rue Ravenstein, Brussels 1, Belgium. *Telephone:* (02) 511-58-80.

DE STRYCKER, Cecil A. J. F. J. M., D.S.C.; Belgian banker; b. 2 Feb. 1915, Derby, England; s. of Joseph de Strycker and Jeanne André Dumont; m. Elisabeth Braffort, 1948; Gov. Banque Nationale de Belgique Feb. 1975-; Pres. Conseil des Institutions publiques de Crédit Feb. 1975-, Institut Belgo-Luxembourgeois du Change Feb. 1975-; Dir. Bank for Int. Settlements Feb. 1975-; mem. Cttee. of Cen. Bank Govs. of EEC Feb. 1975-, Dir. European Fund for Monetary Co-operation Feb. 1975-; Gov. IMF Feb. 1975-, Alt. Gov. Int. Bank for Reconstruction and Devt. Feb. 1975-; Officier de l'Ordre de Léopold, Grand Officier de l'Ordre de la Couronne. *Address:* 14 avenue Bois du Dimanche, B-1150 Brussels, Belgium. *Telephone:* 219-46-00 (Office).

DESWARTE, Willem; Belgian lawyer and public servant; b. 6 Sept. 1906; m. Irene Tesch 1940; ed. Univs. of Brussels and Geneva; practising lawyer, assoc. with Bâtonnier Soudan till 1933; then entered S.A. Grands Magasins "A l'Innovation," became Sec.-Gen., Dir. and Admin. Dir.-Gen.; Pres. Tribunal Maritime Belge à Londres 1945; Counsellor Ministère des Finances 1946; Private Sec. to Prime Minister and later to Minister of Interior 1947; Dir.-Gen. Soc. Anonyme Belge d'Exploitation de la Navigation Aérienne (SABENA) 1949-71; Pres. Belgian Section, World Assn. of World Federalists; Commdr. Ordre de Léopold. *Publications:* La limitation des dividendes 1942, L'impôt sur le capital appliqué aux sociétés par actions 1946. *Leisure interest:* chess. *Address:* Chaussée de Charleroi 133, 1060 Brussels, Belgium. *Telephone:* 537-15-86.

DE TERRA, Helmut, PH.D.; American (b. German) anthropologist; b. 11 July 1900, Guben; s. of Otto Albert de Terra and Margarethe Günther; m. 1st Rhoda Hoff 1929, 2nd Eleanore Muller 1939, 3rd Elizabeth Pschorr 1964; one s. one d.; ed. public school, Marburg (Hesse) and Univ. of Munich. Asst., Inst. of Geology, Univ. of Munich 1925-27; Instructor and Asst. Prof. Yale Univ. 1930-36; Research Assoc. Carnegie Inst. of Washington, D.C. 1936-50; Geographer, U.S. Dept. of Interior 1942-44; Research Assoc. Wenner-Gren Foundation for Anthropological Research 1945-50; Research Assoc. and Adjunct Prof., Columbia Univ. 1952-61; Guest Prof. Univ. of Munich 1962-63; Dir. Werner Reimers Foundation for Anthropogenetic Research, Frankfurt (Main) 1963-66; Silliman Fellow, Yale Univ.; Fellow, Geological Soc. of America; special research: pleistocene geology of early man in Asia and Mexico and biographical studies of leaders in natural science; mem. of numerous expeditions. *Publications:* Geologische Forschungen in K'un-lun und Karakorum Himalaya 1930, Geological Studies in the Northwest Himalayas 1935, Studies on the Ice Age in India and Associated Human Cultures 1939, Durch Urwelten am Indus 1940, The Pleistocene of Burma and Java 1944, Tepexpan Man (Mexico) 1949, The Life and Times of Alexander von Humboldt 1955, Man and Mammoth in Mexico 1956, Studies of the Documentation of Alexander von Humboldt 1958-60, Memoirs of P. Teilhard de Chardin 1964. *Leisure interests:* reading, hiking. *Address:* Chalet Montclair, CH 1837, Château d'Oex, Switzerland. *Telephone:* 029-47169.

DE THÉ, Guy Blaudin, M.D., PH.D.; French cancer research specialist; b. 5 May 1930, Marseilles; s. of François Blaudin de Thé and Magdeleine du Verne; m. Colette Pierrard de Maujouy 1958; one s. two d.; ed. Faculty of Medicine, Marseilles, Sorbonne (Paris). Research Asst. Duke Univ. Medical Center, U.S.A. 1961-63; Visiting Scientist, Laboratory of Viral Oncology, Nat. Cancer Inst., U.S.A. 1963-65; Head of Unit of Electron Microscopy, Centre Nat. de Recherche Scientifique 1965-67; Chief, Unit of Biological Carcinogenesis, WHO Int. Agency for Research on Cancer, Lyons 1967-; Consultant to Inst. de cancérologie et d'immunogénétique 1970-; mem. Scientific Council, ligue nat. française contre le cancer 1972-74; mem. Soc. française de Microscopie électronique, Soc. française de Microbiologie, Royal Microscopic Soc. of England, American Soc. for Cell Biology, American Assn. for Cancer Research, A.A.A.S., American Soc. of Electron Microscopy, European Assn.

for Cancer Research, European Assn. for Cell Biology. *Publications:* many publs. on the cell virus relationship on avian and murine leukaemia viruses, and role of viruses in human tumours (Burkitt's lymphoma in Africa, Nasopharyngeal carcinoma in South-East Asia). *Leisure interest:* arts. *Address:* International Agency for Research on Cancer, 150 cours Albert Thomas, 69008 Lyon (Office); 76 quai Clémenceau, 69300 Lyon/Caluire, France (Home). *Telephone:* (78) 75-81-81 (Office).

DETHIER, Vincent Gaston, A.B., A.M., PH.D.; American professor of biology; b. 20 Feb. 1915, Boston, Mass.; s. of Jean Vincent Dethier and Marguerite Frances (Lally); m. Lois Evelyn Check 1960; two s.; ed. Harvard Coll. and Harvard Univ. Instructor, Biology and Asst. Prof., John Carroll Univ. 1939-41; Lieut. to Major SNC, Army Air Corps 1942-46; Active Reserve, Lieut.-Col., Office of the Surgeon-Gen. 1946-62; Prof. of Zoology and Entomology, Ohio State Univ. 1946-47; Assoc. Prof. and Prof. of Biology, Johns Hopkins Univ. 1947-58; Prof. of Zoology and Psychology, and Assoc. of Neurological Inst. of School of Medicine, Univ. of Pa. 1958-67; Prof. of Biology, Princeton Univ. 1967-75; Prof. of Zoology, Univ. of Mass. 1975-; Pres. American Soc. of Zoologists 1967; Fellow, American Acad. of Arts and Sciences, Nat. Acad. of Sciences, Explorers Club; mem. Entomological Soc. of America; Hon. Sc.D. (Ohio State Univ. and Providence Coll.); Hon. Fellow, Royal Entomological Soc., London; Fellow, R.S.A. *Publications:* Chemical Insect Attractants and Repellents, Animal Behaviour (with E. Stellar), To Know ■ Fly, The Physiology of Insect Senses, Fair-weather Duck, Biological Principles and Processes (with C. Villee) 1971, Man's Plague, The Hungry Fly; and numerous scientific papers. *Leisure interests:* skiing, boating. *Address:* Department of Zoology, University of Massachusetts, Amherst, Mass. 01003, U.S.A. *Telephone*: 413-545-2046.

DEUTEKOM, Cristina; opera singer; b. 28 Aug. 1938, Amsterdam; one d.; first major appearance at Munich State Opera 1966, then at Vienna Festwochen; sang at Metropolitan Opera, New York 1967; has sung in all the major opera houses in Europe, especially Italy, and U.S.A.; specializes in bel canto operas by Rossini, Bellini and Donizetti and the great Verdi operas; recordings for EMI, Decca and Philips; Grand Prix du Disque 1969, 1972. *Leisure interests:* driving round the world, singing, shopping (especially for shoes). *Address:* c/o S.A. Gorlinsky Ltd., 35 Dover Street, London, W1X 4NJ England; c/o H. R. Rothenberg, Johannisthaler Chaussee 421, 1 Berlin 47, Federal Republic of Germany.

DEUTSCH, Babette; American writer; b. 22 Sept. 1895, New York; d. of Michael Deutsch and Melanie Fisher; m. Avrahm Yarmolinsky 1921; two s.; ed. Barnard Coll. Lecturer, Columbia Univ. 1944-71; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Letters, Acad. of American Poets, PEN; Hon. Litt.D. (Columbia Univ.); Distinguished Alumna Award, Barnard Coll. 1977. *Publications:* Banners 19, Contemporary German Poetry 1923, Honey Out of the Rock 1925, A Brittle Heaven 1926, In Such a Night 1927, Modern Russian Poetry, International Poetry 1927, Potable Gold: Some notes on Poetry and this Age 1929, Modern Russian Poetry, International Poetry, Fire for the Night 1930, The Twelve 1931, Epistle to Prometheus 1931, Mask of Silenus 1933, This Modern Poetry 1935, One Part Love 1939, Heroes of the Kalevala 1940, Walt Whitman: Builder for America 1941, It's ■ Secret 1941, Rogue's Legacy 1942, The Welcome 1942, Take Them, Stranger 1944, The Reader's Shakespeare 1946, Poetry in Our Time 1952, 1956, 1963, 1964, 1975, Tales of Faraway Folk (with A. Yarmolinsky) 1952, Animal, Vegetable, Mineral 1954, Poetry Handbook 1957, 1962, 1969, 1974, Coming of Age: New and Selected Poems 1959, Collected Poems 1919-62, 1963, More Tales of Faraway Folk (with A. Yarmolinsky) 1964, The Steel Flea (with A. Yarmolinsky) 1964, Eugene Onegin (with A. Yarmolinsky) 1965; trans. Poems from The Book of Hours, by Rilke 1941, Two Centuries of Russian Verse (with A. Yarmolinsky) 1966, I Often Wish 1966, Poems of Samuel Taylor Coleridge 1967, The Collected Poems of Babette Deutsch 1969, There Comes ■ Time (trans. from E. Borchers) 1969. *Leisure interests:* friendship, the arts, modest cooking. *Address:* 300 West 108th Street, New York, N.Y. 10025, U.S.A. *Telephone:* 212-749-1324.

DE VALOIS, Dame Ninette, D.B.E.; British choreographer; b. 6 June 1898, Baltiboys, Blessington, Co. Wicklow; d. of Lieut-Col. T. R. A. Stannus, D.S.O.; m. Dr. A. B. Connell 1935. Prima Ballerina, Royal Opera Season, Covent Garden 1919 and 1928; British Nat. Opera Co. 1918; mem. The Diaghileff Russian Ballet 1923-26; Choreographic Dir. to the Old Vic. Festival Theatre, Cambridge, and the Abbey Theatre, Dublin 1926-30; Founder and Dir. The Royal Ballet and the Royal Ballet School 1931-63, now Gov. Royal Ballet; Hon. Mus. Doc. (London) 1947; Hon. D.Mus. (London, Sheffield, Trinity Coll. Dublin); Hon. D.Litt. (Reading, Oxford); D.F.A. (Smith Coll. Mass.) 1957; Hon. LL.D. (Aberdeen) 1958; Chevalier de la Légion d'honneur 1950; Erasmus Prize 1974. *Choreographic works include:* Job, The Rake's Progress, Checkmate, The Prospect Before Us, Don Quixote. *Publications:* Invitation to the Ballet 1937, Come Dance with Me 1957, Step by Step 1977. *Address:* c/o Royal Ballet School, 153 Talgarth Road, London, W.14, England.

DE VAUCOULEURS, Gerard Henri, DR. de L'UNIV. (Paris), D.SC. (Canberra); American (b. French) astronomer; b. 25 April 1918; ed Univ. of Paris. Asst. astronomer, Peridier Observatory 1939, 1941-42; C.N.R.S. research student, Physics Research Laboratory, Sorbonne 1943-45; Research Fellow, Astrophysics Inst. C.N.R.S., Paris 1945-49; Science programme, BBC London 1950-51; Research Fellow, Australian Nat. Univ. at Commonwealth Observatory, Mt. Stromlo 1951-54; Observer-in-Charge, Yale-Columbia Southern Station, Mt. Stromlo 1954-57; Astronomer, Lowell Observatory, Flagstaff, Ariz. 1957-58; Research Assoc. Harvard Coll. Observatory, Cambridge, Mass. 1958-60; Assoc. Prof. Astronomy, Univ. of Texas 1960-64; Prof. Univ. of Texas 1965-; Visiting Prof. Collège de France 1976; mem. Int. Astronomical Union, and several astronomical asscns. in U.S.A., U.K. and France. *Publications:* Astronomie (with L. Rudaux) 1948, English, Spanish and Italian trans. 1959-67, Physique de la planète Mars 1951, English trans. 1954, Russian trans. 1956, Discovery of the Universe 1956, Manuel de photographie scientifique 1956, L'exploration des galaxies voisines 1958, Astronomical Photography 1961 (Russian trans. 1975), Reference Catalogue of Bright Galaxies (with A. de Vaucouleurs) 1964, Survey of the Universe (with D. Menzel and F. Whipple) 1970, Second Reference Catalogue of British Galaxies (with A. de Vaucouleurs and H. G. Corwin, Jr.) 1976, Le monde des galaxies 1977, and about 350 papers. *Address:* Department of Astronomy, University of Texas, Austin, Texas 78712, U.S.A. (Office). *Telephone:* 471-4488.

DEVAUX, Louis Armand; French business executive; b. 5 April 1907, Tananarive, Madagascar; s. of Louis-Séraphin Devaux and Estelle Charpentier; m. Suzanne Perche 1927; one s.; ed. Lycée Louis-le-Grand and Univ. de Paris à la Sorbonne; with Banque de Paris et des Pays-Bas 1927-29; Cartier S.A. 1929-46, Pres. 1944-46, Chair. Board Cartier Inc., New York 1946-49; Pres. Pétroles Toneline S.A. 1949-51; Asst. Dir.-Gen. Compagnie des Produits Chimiques et Raffineries de Berre 1949-51; Asst. Dir.-Gen. Shell Française 1952-60, Pres. Dir.-Gen. 1960-67; Pres. Soc. des Pétroles Shell Berre 1960-67; Pres. Dir.-Gen. Soc. Le Nickel 1967-71; Chair. Centre Français du Commerce Extérieur 1972-75; Chair. Laffitte-Tokyo 1973-77; Dir. Shell Française Deutz et Geldermann S.A., Les Ateliers de Construction du Nord de la France, Soc. Générale de Fonderie; Chair. Export Assistance Int.; Dir. Laffitte-Tokyo; Commdr. Ordre national du Mérite, Commdr. Légion d'honneur, Croix de guerre. *Address:* 1 rue de la Paroisse, 7800 Versailles, France.

DE VENOT DE NOISY, Jack; French international lawyer; b. 29 July 1916, Orléans; m. Lilian Marie Harel de la Coutancière; one s. one d.; ed. Ecole Saint-Grégoire, Pithiviers. Pres. Int. Fed. of Judicial and Fiscal Counsellors; Sec.-Gen. Int. Council of Space Law; Pres. Fed. of Latin Nations; Hon. Pres. order of Int. Lawyers of France; Vice-Pres. Int. Confed. of Asscns. of Experts and Advisers (UNO); Officier Légion d'honneur, Croix de guerre. *Leisure interests:* riding, hunting. *Address:* 2 avenue Foch, 75016 Paris, France. *Telephone:* 500 4826.

DE VILLIERS, Willem Johannes, PH.D.; South African engineer; b. 4 April 1921, Jacobsdal, Orange Free State; m. Francina Maria Meyer 1949; two s. one d.; ed. Grey Coll., Bloemfontein and Univ. of Cape Town. Engineer, Pretoria Power Station 1945-49; joined Anglo American Corpn. 1950, successively Engineer, Power Station Supt., Tech. Research and Devt. Engineer, Engineering Supt., Asst. Man. and Man., Rhokana Corpn., Kitwe, Zambia 1950-60; Consulting Mechanical Engineer responsible for method and work studies at the gold mines, Anglo American Corpn., Johannesburg and at Welkom 1961-65; played an important part in the planning of the Cabora-Bassa project; Man. Dir. L.T.A. Engineering 1965-68; Industrial Adviser to Sanlam 1968-70; Deputy Man. Dir., Gen. Mining and Finance Corpn. 1970-71, Man. Dir. 1971-76, Exec. Chair. 1976-. *Leisure interests:* tennis, water-skiing. *Address:* General Mining and Finance Corporation Ltd., 6 Holland Street, Johannesburg, South Africa (Office).

DEVITT, Edward James; American judge; b. 5 May 1911, St. Paul, Minnesota; m. Marcelle LaRose MacRae 1939; one s. one d.; ed. Univ. of North Dakota; private legal practice, East Grand Forks, Minn. 1935-39, Municipal Judge 1935-39, Asst. Attorney-Gen., Minnesota 1939-42, Instructor in Law, Univ. of North Dakota 1935-

39; St. Paul Coll. 1945-; mem. U.S. House of Reps. 1947-48; Probate Judge, Ramsey County, St. Paul 1950-54, Judge, U.S. District Courts, Minnesota 1954-, Chief Judge 1958-. *Address:* 730 Federal Courts Building, St. Paul, Minn. 55101, U.S.A. *Telephone:* 612-228-7178.

DEVLETOGLOU, Evangelos A., PH.D.; Greek economist and politician; ed. Univ. of Athens, Columbia Univ., N.Y. Reserve Officer Greek Navy; with Bank of Greece 1960-67; Senior Economist, Int. Monetary Fund 1969; with IMF, Geneva 1972; Under-Sec. of Co-ordination and Planning July-Nov. 1974; mem. Parl. Nov. 1974-; Minister of Finance 1974-77; New Democracy Party. *Address:* Ministry of Finance, Athens, Greece.

DEVLIN, Baron (Life Peer, cr. 1961), of West Wick in the County of Wiltshire, **Patrick Devlin,** Kt. P.C., F.B.A.; British lawyer; b. 25 Nov. 1905; ed. Stonyhurst Coll., and Christ's Coll., Cambridge; called to the Bar 1929, K.C. 1945; Attorney-Gen. to the Duchy of Cornwall 1947-48; Justice of the High Court 1948-60; Master of the Bench of Gray's Inn 1947; Pres. of Restrictive Practices Court 1957-60; Lord Justice of Appeal 1960-61; Lord of Appeal in Ordinary 1961-63; Chair. Cttee. Inquiry into Dock Labour Scheme 1956, into decasualisation of Dock Labour 1964, Nyasaland Inquiry Comm. 1959, Inquiry into the Port Transport Industry 1964-65, into Industrial Representation 1971-72, on Identification in Criminal Cases 1974; Chair. the Press Council 1964-69; Pres. British Maritime Law Asscn. 1962-; High Steward of Cambridge Univ. 1966-; Hon. LL.D. (Glasgow) 1962, (Toronto) 1962, (Cambridge) 1966, Hon. D.C.L. (Oxford) 1965. *Publications:* Trial by Jury 1956, Criminal Prosecution in England 1958, Samples of Lawmaking 1962, The Enforcement of Morals 1965, Inside Journalism 1967, Too Proud to Fight 1974. *Address:* West Wick House, Pewsey, Wilts., England.

DEVONS, Samuel, PH.D., F.R.S.; British professor of physics; b. 30 Sept. 1914, Bangor, N. Wales; s. of David I. Devons and Edith Edlestein; m. Celia Ruth Toubkin 1938; four d.; ed. Trinity Coll., Cambridge. Scientific Officer, Air Ministry 1939-45; Fellow, Dir. of Studies, Lecturer in Physics, Trinity Coll., Cambridge 1946-49; Prof. of Physics, Imperial Coll. of Science 1950-55, Acting Dir. of Laboratory 1953-54; Langworthy Prof. of Physics and Dir. of Physical Laboratories, Manchester Univ. 1955-60; Visiting Prof. of Physics, Columbia Univ. New York 1959-60, Prof. 1960-, Chair. Dept. of Physics 1963-67; Visiting Prof., Barnard Coll., History of Physics 1969; mem. UNESCO Technical Aid, Argentina 1957; Royal Soc./Leverhulme Visiting Prof., India 1968-69; Racah Visiting Prof., Hebrew Univ., Jerusalem 1973-74; Balfour Visiting Prof., Weizmann Inst., Rehovot 1973; Rutherford Prize and Medal, Physical Soc. 1970. *Publications:* Excited States of Nuclei 1949, Biology and the Physical Sciences (Editor) 1969, High Energy Physics and Nuclear Structure (Editor) 1970. *Address:* Physics Department, Columbia University, New York, N.Y. 10027 (Office); Lewis Road, Irvington, New York, N.Y. 10533, U.S.A. (Home). *Telephone:* 212-280-4124/5102 (Office); 914-LY1-7681 (Home).

DE VRIES, Peter, A.B.; American writer; b. 27 Feb. 1910; m. Katinka Loeser; three c.; ed. Calvin Coll., Michigan, and Northwestern Univ.; free-lance writer 1931-; Assoc. Ed. Poetry 1938, co-Ed. 1942; joined editorial staff of New Yorker 1944; mem. American Acad. and Inst. of Arts and Letters. *Publications:* No But I Saw the Movie 1952, The Tunnel of Love 1954, Comfort Me with Apples 1956, The Mackerel Plaza 1958; dramatization of The Tunnel of Love (with Joseph Fields) 1957, The Tents of Wickedness 1959, Through the Fields of Clover 1961, The Blood of the Lamb 1962, Reuben, Reuben 1964 (dramatized as Spofford by Herman Shumlin 1967), Let Me Count the Ways 1965, The Vale of Laughter 1967, The Cat's Pyjamas and Witch's Milk 1968, Mrs. Wallop 1970, Into Your Tent I'll Creep 1971, Without A Stitch in Time 1972, Forever Panting 1973, The Glory of the Hummingbird 1974, I hear America Swinging 1976, Madder Music 1977. *Address:* 170 Cross Highway, Westport, Conn., U.S.A.

DEVYATKOV, Nikolay Dmitriyevich; Soviet electronics specialist; b. 11 April 1907, Vologda; ed. Leningrad Polytechnical Inst.; junior, then senior scientific assoc. A. F. Ioffe Inst. of Physics and Technology and other research insts. 1925-54; Head of Dept., Inst. of Radio Engineering and Electronics U.S.S.R. Acad. of Sciences 1954-60; Chair of Dept., Moscow Physics and Technology Inst. 1960-; corresp. mem. U.S.S.R. Acad. of Sciences 1953-68, Academician 1968-; U.S.S.R. State Prize 1949, Lenin Prize 1965, Hero of Socialist Labour 1969, Order of Lenin (twice), Hammer and Sickle Gold Medal, etc. *Publications:* numerous works on theoretical and experimental problems of electronics. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

DE WAART, Edo; Netherlands conductor; b. 1 June 1941, Amsterdam; s. of M. de Waart and J. Rose; m. Roberta Alexander 1974; one s. one d.; ed. Amsterdam Music Lyceum. Asst. Conductor, Concertgebouw Orchestra, Amsterdam 1966; Perm. Conductor, Rotterdam Philharmonic 1967, Musical Dir. and Principal Conductor 1973-; Principal Guest Conductor, San Francisco Symphony Orchestra 1975-; First Prize Dimitri Mitropoulos Competition, New York 1964. *Address:* Essenlaan 68, Rotterdam 3016, Netherlands. *Telephone:* 010-124391.

DEWAR, Michael James Steuart, B.A., D.PHIL., M.A., F.R.S.; British professor of chemistry; b. 24 Sept. 1918, Ahmednagar, India; s. of Francis Dewar and Nan Balfour Dewar; m. Mary Williamson 1944; two s.; ed. Winchester Coll. and Balliol Coll., Oxford; ICI Fellow, Oxford Univ. 1945; Physical Chemist, Courtaulds Ltd. 1945-51; Prof. of Chem. and Head of Dept., Univ. of London, Queen Mary Coll. 1951-59; Prof. of Chem., Chicago Univ. 1959-63; Robert A. Welch Prof. of Chem., Univ. of Texas in Austin 1963-; Fellow, Royal Soc. and American Acad. of Arts and Sciences; Reilly Lecturer, Notre Dame Univ. 1951; Tilden Lecturer, Chemical Soc. 1954; Visiting Prof., Yale Univ. 1957; Hon.-Sec. Chemical Soc. 1957-59; Harrison Howe Award, American Chem. Soc. 1961; Falk-Plaut Lecturer, Columbia Univ. 1963; Daines Lecturer, Univ. of Kansas 1963; Glidden Co. Lecturer, Western Reserve Univ. 1964; William Pyle Philips Visitor, Haverford Coll. 1964; Arthur D. Little Visiting Prof., M.I.T. 1966; Marchon Visiting Lecturer, Newcastle upon Tyne, England 1966; Glidden Company Lecturer, Kent State Univ. 1967; Barton Lecturer, Univ. of Okla. 1969; Benjamin Rush Lecturer, Univ. of Pa. 1970; Kahlbaum Lecturer, Univ. of Basel 1970; William Pyle Philips Visitor, Haverford Coll. 1970; Kharasch Visiting Prof., Chicago 1971; Venable Lecturer, Univ. of N.C. 1971; Phi Lambda Upsilon Speaker, Johns Hopkins Univ. 1972; Firth Visiting Prof., Sheffield Univ., England, 1972; Foster Lecturer, State Univ. of N.Y. at Buffalo, 1973; Five College Chemistry Lecturer, Mt. Holyoke, Hampshire, Amherst, Smith Colls., Univ. of Mass., 1973; Robert Robinson Lecturer of the Chem. Soc. 1974; Special Lecturer, Univ. London 1974; Sprague Lecturer Univ. Wis. 1974; Distinguished Bicentennial Prof., Univ. of Utah 1976; Bircher Lecturer, Vanderbilt Univ., 1976; Pahlavi Lecturer, Iran 1976; Michael Faraday Lecturer, Northern Ill. Univ. 1977; Hon. Fellow Balliol Coll., Oxford 1974; G. W. Wheland Memorial Medal, Univ. of Chicago 1976, Evans Award, Ohio State Univ 1977, S.W. Regional Award of the American Chem. Soc. 1978. *Publications:* The Electronic Theory of Organic Chemistry 1949, Hyperconjugation 1962, Introduction to Modern Chemistry 1965, The Molecular Orbital Theory of Organic Chemistry 1969, Computer Compilation of Molecular Weights and Percentage Compositions of Organic Compounds 1970, The PMO Theory of Organic Chemistry 1975; frequent contributions to scientific journals. *Leisure interests:* numerous and varied. *Address:* Department of Chemistry, University of Texas, Austin, Texas 78712 (Office); 6808 Mesa Drive, Austin, Tex. 78731, U.S.A. (Home). *Telephone:* 512-345-0147 (Home).

DE WECK, Philippe; Swiss banker; b. 2 Jan. 1919, Fribourg; s. of Pierre and Lucie (Glasson) de Weck; m. Alix de Saussure 1944; two s. five d.; ed. Fribourg Grammar School, Univ. of Fribourg; joined law firm of Mr. Bourgknecht (later Fed. Councillor) 1948-51; partner in Bank Weck, Aeby and Cie, Fribourg 1951-54; Man. Fribourg Branch Office, Union Bank of Switzerland 1954-56, Man. Geneva Branch Office 1956-62, Gen. Man. Head Office, Zürich 1964, Chair. Board 1976-. *Leisure interests:* skiing, sailing, mountain climbing. *Address:* Union Bank of Switzerland, P.O. Box 645, Bahnhofstrasse 45, 8021 Zürich, Switzerland. *Telephone:* 01-234.11.11.

DEWDNEY, Duncan Alexander Cox, C.B.E.; British company director; b. 22 Oct. 1911, Hampton-on-Thames, England; s. of Claude Felix Dewdney and Annie Ross; m. Edith Marion Riley 1935; two d.; ed. Bromsgrove School, Worcs., and Birmingham Univ.; Chemist, British Petroleum Co. 1932-36; Technical Asst., Standard Oil Devt. Co. 1936-40; R.A.F. 1940-45; Research and Devt. Adviser, Anglo-American Oil Co. Ltd. 1946-47; Man. Devt. Dept., Esso Devt. Co. 1947-49; Man. Esso European Laboratories 1949-51; with Refining Dept. Esso Petroleum Co. 1951-57, Dir. 1957-63, Man. Dir. 1963-68, Vice-Chair. 1968; Chair. Board Irish Refining Co. Ltd. 1957-65; Chair. Mechanical Eng. Econ. Devt. Comm. 1964-68, of Anglesey Aluminium Ltd. 1968-71, of RTZ Metals Ltd. 1968, of RTZ (Britain) 1969, of RTZ Devt. Enterprises Ltd. 1970; Exec. Dir. Rio Tinto-Zinc Corpn. Ltd. 1968-72; mem. Nat. Prices and Incomes Board 1965-69; Chair. Welsh Industrial Devt. Board 1972–; Dir. The Coverdale Org. 1973-; Deputy Chair. Manpower Services Comm. 1974-; Legion of Merit. *Address:* Salters, Harestock, Winchester, England. *Telephone:* 0962-2034.

DE WENDEL, Henri; French industrialist; b. 9 Sept. 1913; ed. Ecole centrale des arts et manufactures; Administrator of Metallurgical Soc. of Senelle-Maubeuge, Slate Quarries of Angers, J. J. Carnaud Establishments and Forges de Basse-Indre; Pres. Compagnie Lorraine Industrielle et Financière, Profilés et Tubes de l'Est; fmr. Vice-Pres. SACILOR; Chevalier, Légion d'honneur. *Address:* 9 avenue du Maréchal-Manoury, 75016 Paris, France.

DE WET, Dr. Carel, B.SC., M.B., B.CH.; South African physician, politician and diplomatist; b. 25 May 1924, Memel, Orange Free State; m. Rina Maas 1949; one s. three d.; ed. Vrede High School, Orange Free State, Pretoria Univ., and Univ. of Witwatersrand; medical practice, Boksburg, Transvaal, Winburg, Orange Free State, and Vanderbijlpark, Transvaal; Mayor of Vanderbijlpark 1950-52; mem. House of Assembly for Vanderbijlpark 1954-64, for Johannesburg-West 1967-72; Amb. to U.K. 1964-67, 1972-77; Minister of Planning and Mines 1967-69, of Mines and Health 1969-72. *Leisure interests:* farming, shooting, deep-sea fishing, golf, rugby, cricket, trees. *Address:* Castrol House, P.O. Box 6424, Johannesburg 2000, South Africa *Telephone:* 642-4343 (Office); 706-6202 (Home).

DE WINDT, Edward Mandell; American business executive; b. 31 March 1921, Great Barrington, Mass.; s. of Delano de Windt and Ruth Church; m. Betsy Bope 1941; three s. two d.; ed. Berkshire School and Williams Coll.; Production Clerk, Valve Plant, Eaton Corpn. 1941, Vice-Pres. and Dir. of Sales 1960, Group Vice-Pres. International 1961, Exec. Vice-Pres. 1967, Pres. 1967-69, 1978- and Chief Exec. Officer, Chair. of Board Sept. 1969-. *Leisure interests:* golf, tennis. *Address:* Eaton Corporation, 100 Erieview Plaza, Cleveland, Ohio 44114, U.S.A.

DE WINTER, August; Belgian barrister and politician; b. 12 May 1925, Grimbergen; m. Marcelle Janssens; one s. one d.; Barrister; Sec. of State, Regional Econ., Brussels; mem. Chamber of Reps. 1963; mem. Belgian Del. to UN 1963; Mayor of Grimbergen 1964-71; Nat. Rep. at symposium of European Liberal Parties 1964; Pres. Parti pour la liberté et le progrès (PLP) Fed. of Brussels 1962-66; Minister for External Trade 1966-68; Chair. Board of Govs. Vrije (Free) Univ. Brussels 1969-72; Pres. PLP-PVV faction Chamber of Reps. 1973-74; Pres. PVV Brussels district 1973-74. *Address:* 180 G. Van Haelen Avenue, 1190 Brussels, Belgium. *Telephone:* 02/344-91-65.

DEXTER, John; British theatre and opera director; actor in repertory, television and radio until 1957; directed 15 plays at Royal Court Theatre 1957-72; Assoc. Dir. Nat. Theatre 1963-73, directed 14 plays; directed 13 plays elsewhere 1959-74; Dir. of Production, Metropolitan Opera, New York 1974-; *Plays directed in 1963-66 include* Chips With Everything, Do I Hear a Waltz?, Royal Hunt of the Sun, Black Comedy and White Lies, The Unknown Soldier and his Wife (all in New York); in 1971-73 include Woman Killed With Kindness, Tyger, The Good Natur'd Man, The Misanthrope, Equus, The Party (all National Theatre); The Old Ones 1972 (Royal Court), Pygmalion 1974, Phèdre Britannica 1975 (National Theatre), The Merchant 1977 (Kennedy Center); Film directed: The Virgin Soldiers 1968; Operas directed: Benvenuto Cellini (Covent Garden) 1966, House of the Dead, Boris Godunov, Billy Budd, Ballo in Maschera, I Vespri Siciliani (Hamburg), The Devils (Sadler's Wells), I Vespri Siciliani (new production) (Metropolitan, New York and Paris), La Forza del Destino (Paris) 1975, La Gioconda 1975, Aïda (new production) 1976, Le Prophète (new production) 1977 (all Metropolitan Opera), Dialogues of the Carmelites, Lulu, Rigoletto (new productions) 1977 (Metropolitan Opera), Billy Budd, The Bartered Bride, Don Pasquale (new productions) 1978 (Metropolitan Opera). *Leisure interest:* work. *Address:* c/o Metropolitan Opera, Lincoln Center, New York, N.Y. 10023, U.S.A.

DEXTRAZE, Gen. Jacques Alfred, C.C., C.B.E., C.M.M., D.S.O., C.D.; Canadian army officer; b. 15 Aug. 1919, Montreal; s. of Alfred and Amanda Dextraze; m. Francis Helena Pare; four s. (one deceased); ed. St. Joseph de Bethier, Montreal, MacDonald Business Coll. and Univ. of Columbia; with Dominion Rubber Co. 1938-40; Fusiliers Mount Royal 1939-45, Lt.-Col. and Commdg. Officer 1944-45; Commdg. Officer Hastings and Prince Edward Regt. 1945; with Singer Mfg. Co. 1945-50; Man. Forest Operations 1947-50; Commdg. Officer 2nd Battalion, Royal 22e Regt. 1950-52; Officer in charge of Admin., E. Quebec Area 1952-54; Gen. Staff Officer, Quebec 1954-55, Col. and Chief of Staff, Quebec 1956-57; Commdt. Royal Canadian School of Infantry 1957-60, Camp Valcartier 1960-62; Brig., Commdr. E. Quebec Area 1962; Chief of Staff, H.Q., UN Operations in Congo 1963-64; Commdr. 2 Canadian Infantry Brigade Group 1964-66; Chief of Staff for Operations and Training, H.Q. Mobile Command 1966-67, Maj.-Gen., Deputy Commdr. Operations 1967; Deputy Chief of Personnel, Canadian Forces H.Q. 1969, Lt.-Gen., Chief of Personnel 1970-72, Gen., Chief of Defence Staff 1972-77; mem. Canadian Comm. to Tripartite Mil. Confs. 1957; mem. Inst. Cttee. for Standardization of Arms and Nat. Mil. Resources 1957-60; Hon. Aide-de-Camp to H.E. the Gov.-Gen. 1958; Chair. Bd. Canadian Nat. Railways 1977-; Council for Canadian Unity, Canada Safety Council, Centraide Montreal, Consortium for Atlantic-Pacific Affairs, NATO's Fifteen Nations, Ottawa General Hospital; Hon.LL.D. (Wilfrid Laurier Univ.); Commdr. Canadian Order of Mil. Merit, Canadian Forces Decoration, Cross of Grand Officer of the Order of the Crown (Belgium) 1977. *Leisure interests:* reading, bridge, golf, editing military papers. *Address:* c/o National Defence Headquarters, Ottawa, Ont. K1A 0K2; P.O.Box 8100, Montreal, Quebec H3C 3N4, Canada.

DEY, Bishnu; Bengali poet; b. 18 July 1909, Calcutta; s. of late Abinash Ch. Dey and Mrs. M. Dey (née Bhose); m. Pranati Raychaudhuri 1934; one s. two d.; ed. Calcutta Univ.; Prof. of English, Central Calcutta Coll., now retd. *Publications:* Urbasi-o-Artemis 1932, Chorābāli 1936, Purbolékh 1941, 22nd June 1942, Sāt Bhāi Champā (poems) 1945, Roochi-o-Pragatee (essays) 1946, Sandipér Char (poems) 1947, The Art of Jamini Roy (with John Irwin) 1945, Samundrér Mauno 1945, Caramel Doll (English trans. of Abandranath Tagore's Story) 1946, Introducing Nirode Mazumdar 1946, Bengal Painters' Testimony 1946, Anwista (poems) 1950, Sahityér Bhabisyat (essays) 1952, Eliotér Kabita (translations of T. S. Eliot's poems) 1953, Nām Rékhéchhi Komal Gāndhār (poems) 1953, An Introduction to Jamini Roy 1953, Hé Bidéshi Phul (trans. of poems of various countries) 1957, Paintings of Rabindranath Tagore, India and Modern Art; Alekhya (poems) 1958, Tumi Shudhu Panchisé Baisakh (poems) 1958, Mao Tse-tung (translations in verse) 1958, Prodosh Das Gupta—His Sculpture 1961, Élo-mélo-jiban o Silpasahitya (essays) 1958, Sāhityér Désh Bidésh (essays) 1963, Smriti Sattā Bhabisyat (poems) 1963, Ékalér Kabitā 1963, Satyendranath Bose, A Legend in His Lifetime 1963, Sei Andhakār chāi (poems) 1966, Rabindranath-o-Adhunikatār Samasyā (essays) 1966, Michael, Rabindranath-o-anyānya-jijnānsa (critical essays) 1967, Rushati Panchāsati (poems) 1967, Sambad Mulata Kabya (poems) 1970, Itihasér Tragic Ullyāsé (poems) 1970, In the Sun and the Rain (essays in English) 1972, History's Tragic Exultation (translations of poems into English) 1973, Rabi Karojjal Nija Déshé (poems on Bangladesh) 1973, Ishā Bāshya Dibā Nishā (poems) 1974, Chitrarup Matta Prithibir (poems) 1975, Uttaré Thako Mouno (poems) 1977, Jamini Roy (essays on the artist) 1977. *Leisure interests:* music, painting, drama, sculpture. *Address:* 9/17 Fern Road, Calcutta 19, West Bengal, India.

DEY, Surendra Kumar, M.SC.; Indian electrical engineer and politician; b. 15 Sept. 1906, Sylhet (now in Bangladesh); s. of late P. L. Dey and late B. Dey; m. Aruna Dey 1933; two s. three d.; ed. Zilla School, Rangpur, Bengal Engineering Coll., Purdue and Michigan Univs.; rose from position of Sales Engineer to Divisional Man. for India, Burma and Ceylon with Victor X-ray Corpn. (India) Ltd. 1932-47; Hon. Technical Adviser, Ministry of Rehabilitation 1947-52; built township of Nilokheri, a pilot experiment in agro-industrial development; mem. of Exec., United Council for Relief and Welfare 1949-53; Admin., Community Projects Admin., mem. Central Board, Bharat Sewak Semaj 1952-56; Minister for Community Development 1956-58 and Co-operation 1959-66; Minister of Mines and Metals 1966-67; resgnd office in Govt. of India early 1967; then worked as Special Adviser to Administrator UNDP on global mission of rural devt. in continents; Pres. All India Panchayat Parishad 1968-73; Special Consultant UNROD, Dacca, Bangladesh 1972-73; awarded Padma Bhushan 1955; Hon. LL.D. (Michigan). *Publications:* The Quest, Fragments Across, Missing Link, Planning for Life, Random Thoughts I, II and III, Community Development, Community Development—A Bird's Eye View, Sahakari Samaj—A Cooperative Commonwealth, Panchayati Raj, Nilokheri, Community Development: A Chronicle, Power to the People?—A Chronicle of India 1947-67. *Leisure interests:* reading, gardening. *Address:* A-23, Kailash Colony, New Delhi 48 (Office); "Bul Bul", 5-Lajpatrai Marg, Lajpatnagar IV, New Delhi 24, India (Home). *Telephone:* 624836 (Office); 74151 (Home).

DEY-DEVA, Mukul Chandra, M.C.S.E., F.R.S.A., A.R.C.A., F.I.A.L. (Germany), I.E.S. and B.S.E.S.; Indian artist and writer; b. 23 July 1895, Sridharkhola village, District Dacca; s. of Kula Chandra Dey and Purnasasi Basu; m. Srimati Bina Roy 1932; one d.; ed. Santiniketan School (West Bengal); studied art with Dr. Abanindranath Tagore (Calcutta), and in Japan, Chicago and London; exhibited Indian Soc. of Oriental Art, Calcutta 1913, Tokyo 1916, Art Int., Chicago 1916; studied Slade School of Art, London 1920; scholarship Royal Coll. of Art, London 1920-22; Art Teacher, King Alfred School, Hampstead 1920-21; Lecturer Indian Art, L.C.C. London 1925-27; Royal Acad. 1922-23; paintings and drypoint-etchings in

perm. collection, British Museum, London 1924-28, 1st one-man show, London 1927; executed murals Wembley Exhbn., London 1925; exhibited Philharmonic Hall, Berlin 1926, Indian Soc. of Oriental Art, Calcutta 1928; Principal Govt. Coll. of Art, Calcutta; Officer-in-Charge Art Section and Keeper Govt. Art Gallery, Indian Museum, Calcutta; Trustee Indian Museum 1928-43; Co-founder (with Mahatma Gandhi) Kalika Art Gallery 1944; Fulbright Visiting Prof. of Art in U.S.A. 1953-54; Curator Nat. Gallery of Modern Art, Govt. of India, New Delhi 1955-57; exhbn., Commonwealth Inst., London 1960; works accepted for Australian Nat. Collection previously in New Australian Art Gallery, Canberra 1969, Bengal School of Indian Art, Tetsuro and I. Sugimoto Museum, Kyoto, Japan 1968-70; Award, Rabindra Bharati Univ., Calcutta 1972. *Works include:* paintings, portraits, drypoint-etchings, engravings, copies of frescoes in Ajanta and Bagh Caves, Pollonaruwa temples, Ceylon, Sittanavasal caves, S. India, British Museum, London, U.S.A., Germany, etc. *Publications:* 12 Portraits 1917, My Pilgrimages to Ajanta and Bagh 1925 and 1951, My Reminiscences 1938, 15 Drypoints 1939, Birbhum Terracottas 1960, Indian Life and Legends (10 vols.) 1974-. *Leisure interests:* painting, drawing, writing, gardening, photography. *Address:* Kalika Art Gallery, P.O. Santiniketan, West Bengal, India.

DEYOUNG, Russell; American rubber company executive; b. 3 April 1909, New Jersey; m. Lois Bishop 1937; two s. one d.; ed. Akron Univ., and Mass. Inst. of Technology; joined Goodyear Tire & Rubber Co. 1928-; Vice-Pres. (Production) 1947-56, Exec. Vice-Pres. 1956-58, Pres. 1958-64, Chair. of Board 1964-74, Chief Exec. Officer 1964-74, Chair. Exec. and Finance Cttee. 1974-, also Dir.; Dir. Lykes-Youngstown Corpn., Kennecott Copper Corpn., Continental Can Co., Ward Foods Inc. *Address:* 1144 E. Market Street, Akron, Ohio 44316 (Office); 3003 Gulf Shore Boulevard N., Naples, Fla. 33940, U.S.A. (Home).

DHARIA, Mohan; Indian politician; b. 14 Feb. 1925, Nate village, Kolaba; ed. Mahad, Poona, Poona Law Coll.; took active part in Independence Movement, organized youth march to Mahad Tehsil 1942; associated with several trade unions; imprisoned five times after independence; joined Congress Party 1961; Gen. Sec. Maharashtra Pradesh Congress Cttee. 1962-67; mem. Rajya Sabha 1964-71; mem. Lok Sabha from Pune (Poona) 1971-; Minister of State for Planning 1971-75; left Congress Party 1975; detained during emergency 1975-77; mem. Janata Party 1977-; Minister of Commerce, Civil Supplies and Co-operation March 1977-; mem. Deccan Educ. Soc., Shikshan Prasarak Mandali, Janata Educ. Soc., also several co-operative orgs. *Publication:* Fumes and the Fire 1975. *Address:* Ministry of Commerce, Civil Supplies and Co-operation, New Delhi, India.

DHARMASAKTI, Sanya; Thai lawyer and judge; b. 5 April 1907, Bangkok; ed. Bangkok and London; fmr. Chief Justice of Thailand; fmr. Rector, Thammasat Univ.; Prime Minister 1973-75; Pres. Privy Council 1976; Pres. Buddhist Assen. of Thailand; Vice-Pres. World Fellowship of Buddhists. *Address:* 15 Sukhumvit Road, Soi 41, Bangkok, Thailand.

DHAVAN, Shanti Swarup; Indian judge and diplomatist; b. 2 July 1905; s. of Beli Ram Dhavan and Saraswati Dhavan (née Chopra); m. Shakuntala Kapur 1935; two s. one d.; ed. Government Coll., Lahore, Forman Christian Coll., Lahore, Emmanuel Coll., Cambridge, Middle Temple, London, and Univs. of Bonn and Heidelberg; fmr. Pres. Cambridge Union; Advocate, Allahabad High Court; Lecturer in Law, Univ. of Allahabad 1940-54; Senior Standing Counsel, Govt. of Uttar Pradesh 1956-58; Puisne Judge, Allahabad High Court 1958-67; High Commr. of India in U.K. 1968-69; Governor of W. Bengal 1969-71; Pres. Uttar Pradesh Section, Indo-Soviet Cultural Soc. 1965-67; mem. Law Comm. of India 1972-77; Sastri Memorial Lecturer, Kerala Univ., Trivandrum 1973. *Publications:* several articles on Indian jurisprudence and the legal and judicial systems of Ancient India. *Address:* 28 Tashkent Marg, Allahabad, Uttar Pradesh, India (Home).

DHILLON, Gurdial Singh; Indian politician; b. 6 Aug. 1915, Amritsar; s. of Hardit Singh; ed. Govt. Coll., Lahore, and Univ. Law Coll., Lahore; law practice 1937-47; army service; active in Congress and Akali Dal movements; imprisoned twice before independence in 1947; journalist and co-founder, Punjab daily Virman 1947-52; Chief Ed. Urdu daily Sher-e-Bharat 1947-52; Man. Dir. Sikh Newspaper Ltd.; founder mem. Fed. of Working Journalists of India; mem. Punjab Legis. Assembly 1952-67, Deputy Speaker 1952-54, Speaker 1954-62, Sec.-Gen. and Chief Whip Congress Legis. Party 1964-67; Punjab State Minister of Transport 1965-66; mem. Lok Sabha 1967-, Chair. Parl. Cttee. on Public Undertakings 1968-69, Speaker 1969-75; Minister of Transport and Shipping 1975-77; fmr. mem. A.I.C.C.; Pres. Commonwealth Speakers' Conf. 1970, Chair. Standing Cttee. of Commonwealth Speakers 1971-73; mem. Exec. Commonwealth Parl. Assen. 1969-, Vice-Pres. 1973-74, Pres. 1974-75; Pres. IPU Conf. 1969, mem. Exec. Cttee. IPU 1969-72, Pres. Oct. 1973-; mem. Syndicate Punjab Univ. 1960-, Fellow 1968-69, now Dean Faculty of Law; mem. Syndicate and Fellow, Guru Nanak Univ. 1970-. *Publications:* several brochures on current affairs. *Address:* c/o Indian National Congress, 5 Dr. Rajendra Prasad Road, New Delhi, India.

DHOM, Robert; German banker; b. 16 Dec. 1919, Rosenheim; Chair., Board of Man. Dirs., Commerzbank AG; mem. Board of Dirs., Int. Commercial Bank Ltd., London; Chair. Supervisory Board, Karstadt AG, Rheinische Hypothekenbank; mem. Supervisory Board, Bayer AG, Daimler-Benz AG, Fichtel & Sachs AG, Heidelberger Druckmaschinen AG, Hutschenreuther AG, Linde AG, Standard Elektrik Lorenz AG, Thyssen Handelsunion AG, Sachs AG; Pres. Advisory Board, Commerzbank Int. S.A., Luxembourg; mem. Advisory Board, Allgemeine Kreditversicherung AG; mem. Board of Man. Dirs., Bundesverband deutscher Banken e.V. (Fed. Assen. of German Banks), Köln. *Address:* Commerzbank AG, Neue Mainzer Strasse 32-36, D-6000 Frankfurt am Main, Federal Republic of Germany (Office). *Telephone:* (0611) 13-62-1.

DIA, Mamadou; Senegalese politician; b. 18 July 1910, Kombole; ed. William Ponty School, Dakar; Councillor, Senegal 1946-52; Grand Councillor, French West Africa 1952-57; Founder mem. Bloc Démocratique Sénégalais (BDS), later Sec.-Gen; Senator for Senegal 1949-55; Dep. to Nat. Assembly, Paris 1956-59; Dep. to Legis. Assembly, Senegal 1959; Vice-Pres., Council of Ministers, Senegal 1957-58, Pres. 1958-59; Vice-Pres., Mali Fed. 1959-60; Pres. Council of Ministers, Senegal 1960-62, concurrently Minister of Defence and Security 1962; Govt. overthrown Dec. 1962, sentenced to life detention May 1963, sentence reduced to 20 years imprisonment 1972, released 1974; political rights restored 1976; co-founder of And Soppi (perodical) July 1977; Chevalier, Palmes académiques. *Publications:* Réflexions sur l'économie de l'Afrique noire 1953, Contributions à l'étude du mouvement coopératif en Afrique noire 1957, L'économie africaine 1957, Nations africaines et solidarité mondiale 1960. *Address:* Dakar, Senegal, West Africa.

DIACONESCU, Gheorghe; Romanian lawyer and diplomatist; b. 12 March 1915; ed. School of Law, Iaşi Univ.; in Supreme Court and Gen. State Prosecuting Magistracy until 1954; with Ministry of Justice 1951-61; Amb. to Poland 1961-66; Perm. Rep. of Romania to UN 1966-72; Dir., Ministry of Foreign Affairs 1972-73, Deputy Dir. 1973-; Prof. of Law, Bucharest Univ. *Publications:* several works and studies in field of law. *Address:* Ministerul Afacerilor Externe, Bucharest, Romania.

DIAH, Burhanudin Mohamad (husband of Herawati Diah, q.v.); Indonesian journalist and diplomatist; b. 1917; ed. Taman Siswa High School, Medan, Sumatra and Ksatrian School for Journalism, Bandung, Java; Asst. Editor daily Sinar Deli, Medan 1937-38; freelance journalist 1938-39; Chief of Indonesian Information Desk, British Consulate-Gen. 1939-41; Editor-in-chief Indonesian monthly Pertjaturan Dunia dan Film 1939-41; radio commentator and editorial writer daily Asia Raya 1942-45; Editor-in-chief daily Merdeka 1945-49, 1968-; Pres. Merdeka Press Ltd., Masa Merdeka Printing Presses; active in political movement, especially during Japanese occupation; Chair. New Youth (underground) movement and jailed by Japanese in 1942 and again in 1945; active in forcing proclamation of Indonesian Independence Aug. 1945; mem. Provisional Nat. Cttee., Repub. of Indonesia 1945-49; mem. Provisional Indonesian Parl. 1954-56; mem. Nat. Council 1957-59; Amb. to Czechoslovakia 1959-62, to U.K. 1962-64, to Thailand 1964-66; Minister of Information 1966-68; Vice-Chair., Press Council of Indonesia 1970-. *Address:* Jalan M. Sangadi 11, Jakarta (Office); Jalan Diponegoro, Jakarta, Indonesia (Home).

DIAH, Herawati, B.A. (wife of Burhanudin Mohamad Diah, q.v.); Indonesian journalist; b. 1917; ed. Barnard Coll. (Columbia Univ.); Announcer and feature writer, Indonesian Radio 1942; Sec. to Minister of Foreign Affairs, Republic of Indonesia Sept.-Dec. 1945; reporter daily Merdeka 1946; Ed. Indonesian Sunday paper Minggu Merdeka Jan.-July 1947 (when it was banned by Dutch authorities); reporter Merdeka 1947-48; Ed. illustrated weekly Madjalah Merdeka 1948-51, of Minggu Merdeka May 1951; Editor of women's monthly magazines, Keluarga (Family) 1953-59, of daily, Indonesian Observer 1955-59; Founder, Dir. Foundation for Preservation of Indonesian Art and Culture 1967-; mem. Int. Fund for Cultural Devt. (UNESCO body) 1977; mem. Exec. Board of Inst. for Man. and Educ. Devt. *Address:* Jalan Diponegoro, Jakarta, Indonesia.

DIAKITÉ, El Hadj Moussa; Guinean government official; b. 1927; ed. Ecole Primaire Supérieure, Ecole Technique Supérieure; Treasury 1954; Deputy Mayor of Kankan 1956; Vice-Pres. Grand

Council of West Africa 1958; Sec. of State, Grand Council of West Africa 1958; Gov. Central Bank of Guinea and Minister of Finance 1960-63; Minister of Foreign Trade and Banking 1963-68; Sec. of State for Industry, Mines and Power 1968-71; Minister of the Interior and Security Domain 1972-; Compagnon de l'Indépendance. *Address:* Ministry of the Interior and Security Domain, Conakry, Republic of Guinea.

DIAMAND, Peter, C.B.E.; Netherlands (b. Austrian) musical administrator; b. 8 June 1913; m. Sylvia Rosenberg; one s.; ed. Schiller-Real-gymnasium, Berlin, and Friedrich Wilhelm Univ., Berlin; studied law in Berlin until Nazi laws made this impossible; emigrated to Holland 1933, Private Sec. to Artur Schnabel 1934-39; Asst. Dir. Netherlands Opera 1946-48; Gen. Man. Holland Festival 1948-65, Artistic Adviser 1965-73; co-founder Netherlands Chamber Orchestra and mem. of Board 1955-77; Dir. Edinburgh Festival 1965-78; Dir. and Gen. Man. Royal Philharmonic Orchestra 1978-; Knight Order of Orange-Nassau, Grand Cross of Merit, Austria, Commdr. Order of Merit, Italy, Chevalier des Arts et des Lettres, France; Hon. LL.D. (Edinburgh). *Address:* Royal Philharmonic Orchestra, 97 New Bond Street, London W.1.

DIAMOND, Baron (Life Peer), cr. 1970, of the City of Gloucester; **John Diamond,** F.C.A.; British politician; b. 1907, Leeds; s. of Solomon Diamond and Henrietta Beckerman; two s. two d.; ed. Leeds Grammar School; Chartered Accountant; Labour M.P. for Blackley, Manchester 1945-51, Gloucester 1957-70; mem. Gen. Nursing Council and Chair. of its Finance and Gen. Purposes Cttee. 1947-53; Hon. Treas. Fabian Soc. 1950-64; Dir. Sadler's Wells Trust 1957-64; Hon. Treas. Labour Cttee. for Europe 1961-64; Chief. Sec. to the Treasury 1964-70; mem. Cabinet 1968-70; Hon. Treas. The European Movt.; Deputy Chair. of Cttees., House of Lords 1974; Chair. Royal Comm. on Distribution of Income and Wealth 1974–; Privy Councillor; Chair. Industry and Parl. Trust 1977-; LL.D.h.c. *Publications:* Public Expenditure in Practice 1975, co-author: Socialism the British Way 1948. *Leisure interests:* music, golf and skiing. *Address:* House of Lords, London, S.W.1; Aynhoe, Doggetts Wood Lane, Chalfont St. Giles, Bucks., England.

DIAMOND, William, PH.D.; American international finance official; b. 1917, Baltimore, Md.; m. Lois Wilhelm 1946; ed. Johns Hopkins Univ.; with U.S. Board of Econ. Warfare and U.S. Foreign Econ. Admin. 1942-44; Economist on U.S. missions to Turkey and Czechoslovakia 1944-46; Econ. Adviser to UNRRA mission to Czechoslovakia, later in London; joined Loan Dept. of World Bank 1947; Deputy Dir. of Foreign Trade Admin. of Greece 1947-48; various posts, World Bank 1948-55; Econ. Devt. Inst. 1955-58; Adviser to Industrial Credit and Investment Corpn. of India 1959-60; Asst. Dir. Operations, Western Hemisphere, World Bank 1960-62; Dir. Devt. Finance Companies Dept., Int. Finance Corpn. 1962-68; Dir. Devt. Finance Companies Dept., World Bank 1968-72, Dir. S. Asia Dept. 1972-75; Special Asst. to Vice-Pres., Finance 1975-77; Sr. Fellow, Econ. Devt. Inst. 1977-. *Publications:* The Economic Thought of Woodrow Wilson 1943, Czechoslovakia between East and West 1947, Development Banks 1957, Development Finance Companies: Aspects of Policy and Operations (ed.) 1968. *Address:* Economic Development Institute, International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C. 20433 (Office); 3315 Garfield Street, N.W., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 333-1863 (Home).

DIARRA, Col. Amadou Baba; Mali army officer and politician; b. 30 Dec. 1929, Bamako; ed. Ecole Normale Supérieure, Bamako, and Univ. de Montpellier, France; fmrly. at the Overseas Scientific and Tech. Research Bureau, Paris, then Minister of Public Works; Sec. of State for Labour and Social Affairs 1959-61, for the Civil Service and Labour 1961-65; Minister of Labour 1965-67; Asst. to Sec.-Gen. Nat. Council for Scientific and Technological Research 1967-68; Adviser to Minister of Foreign Affairs 1969-72; Minister of Finance and Commerce 1970-73; Vice-Pres. Mil. Cttee. of Nat. Liberation 1968-; fmr. Prof. of Political Econs. and Public Law, Nat. School of Admin.; Pres. UN Econ. Comm. for Africa 1962, Comm. on Apartheid 1964; Vice-Pres. African Regional Conf., ILO 1964; Pres. Council of Admin., ILO 1965-66; fmr. Adviser on African Affairs, Int. Centre for Advanced Tech. and Vocational Training. *Address:* Cabinet du Vice-Président, Comité Militaire de la Libération Nationale, Bamako, Mali.

DIAS, Anthony Lancelot, B.A., B.SC.(ECON.); Indian civil servant; b. 13 March 1910, Poona; s. of late Dr. and Mrs. E. X. Dias; m. Joan J. Vas 1939; four d.; ed. Deccan Coll., Poona, L.S.E. and Magdalene Coll., Cambridge; entered Indian Civil Service 1933; Sec. Educ. Dept. 1952-55, Agricultural Dept. 1955-57, Home Dept. 1957-60; Chair. Bombay Port Trust 1960-64; Sec. Dept. of Food, Ministry of Food and Agriculture 1964-70; Lieut.-Gov. of Tripura 1970-71; Gov. of West Bengal 1971-77; Chair. Indian Inst. of Man. 1976-, Nat. Book Trust 1978-; mem. Board of Govs., Int. Dept. Research Centre, Ottawa 1970-74; Padma Vibhushan 1970. *Publication:* Feeding India's Millions. *Leisure interests:* golf, photography. *Address:* National Book Trust, India, A-5, Green Park, New Delhi-110016, India. *Telephone:* 692607.

DIAS, Felix (Bandaranaike); Ceylonese politician; b. 1931; Minister of Finance and Parl. Sec. to Minister of Defence and of External Affairs 1960-62; Minister without Portfolio Nov. 1962-63, of Agriculture, Food and Co-operatives 1963-65; Minister of Public Admin., Local Govt. and Home Affairs 1970-75, of Justice 1972-77, of Finance 1975-77. *Address:* Mahanuga Gardens, Colombo 3, Sri Lanka. *Telephone:* 27343.

DÍAZ DE MOLINA, Alfredo Hugo Florencio, D.JUR. AND SC.S.; Argentine writer; b. 27 Oct. 1901; ed. Nat. Univ. de Buenos Aires; Minister of Government, Justice and Education, Jujuy 1943; Head of Monopolies Department, Ministry of Industry and Commerce 1943-49; Legal Adviser 1950-52; Lawyer, Vialidad 1955-63; mem. Nat. Comm. on Anniversary of Sovereign Ass. of 1913, 1963; Teacher at Reconquista Nat. Coll.; Hon. mem. Co-operative Assn. 1950-64; Santiago Derquix and José Figueroa Alcorta Colls.; Prof. Civil Law, Univ. Nacional de La Plata 1955-62; Prof. History of Argentine Inst., Univ. de Buenos Aires 1958-63; Founder and Dean of Faculty of Econs. at the Univ. de Morón 1961-63; Rector 1963; Vice-Pres. Argentine Inst. of Genealogical Science; Founder and Editor first Argentine Heraldic Review 1940; Pres. Argentine-Cuban Cultural Inst.; Vice-Pres. Bolívar Soc. of Argentina; mem. chief historical and genealogical insts. of Europe and America; Chevalier, Légion d'honneur. *Publications include:* El Poema del Olimpo 1919, Ja, ja, ja, 1923, El genio epónimo del Libertador José de San Martín 1950, Los orígenes constitucionales argentinos 1955; La constitución cordobesa de 1821 y su influencia institucional 1958, El sindicato y los derechos sindicales en la reforma constitucional de 1957 1960, La oligarquía argentina Córdoba 1965. *Address:* Juan María Gutiérrez 3931, Buenos Aires, Argentina.

DÍAZ, Jose Luís; Spanish mining engineer and executive; b. 30 Nov. 1929, León; m. Da. Raymonde Cassou Barès; two s. one d.; Director Petrol Research Dept., AUXINI 1971-73; Dir. Empresa Nacional de Petróleos de Aragón; mem. Empresa Nacional de Petróleos de Tarragona 1972-74; Dir.-Gen. of Energy 1972-75; Exec. Vice-Pres. Empresa Nacional del Petróleo (ENPETROL) Dec. 1975-; Gran Cruz del Mérito Civil. *Address:* c/o Cascanueces 16, (Parque Conde de Orgaz), Madrid 33, Spain. *Telephone:* 200-04-09.

DIBA, H.I.M. Queen Farah (see Pahlavi, H.I.M. Queen Farah).

DI BELGIOJOSO, Lodovico Barbiano; Italian architect; b. 1 Dec. 1909; ed. School of Architecture, Milan; Architect 1932; Prof. of Architecture 1949; Prof. Venice Univ. Inst. of Architecture 1956-63; Prof. of Architectural Composition, School of Architecture, Milan Polytechnic 1963-; private practice with Peressutti and Rogers in town planning, architecture, interior decoration and industrial design; mem. Nat. Council of Italian Town Planning Inst.; mem. Acad. di S. Luca, Rome; *works include* houses, factories, pavilions; Italian Merchant Navy Pavilion, Paris Int. Exhbn. 1937; health resort for children, Legnano 1939; Post Office, Rome 1939; monument to the dead in German concentration camps, Milan cemetery 1946; U.S. Pavilion at Triennale 1951; Olivetti Showroom, Fifth Avenue, New York, and Labyrinth at the Tenth Triennale 1954; restoration and re-arrangement of Castello Sforzesco Museums 1956; skyscraper Torre Velasca, Milan 1957; Canadian Pavilion, Venice Biennale; collaborator Italian Pavilion, Brussels Exhbn. 1958; Hispano Olivetti Building, Barcelona 1965. *Publications:* (in collaboration with Banfi, Peressutti and Rogers): Piano regolatore della Val d'Aosta 1937, Piano A.R. 1946, Stile 1936, etc. *Address:* Studio Architetti B.B.P.R., 2 via dei Chiostri, Milan, Italy.

DICHTER, Ernest, PH.D.; American psychologist; b. 14 Aug. 1907, Vienna; s. of William Dichter and Matilde Schneider; m. Hedy Langfelder 1935; one s. one d.; ed. Univs. of Paris and Vienna; Consultant Psychologist on Programs, Columbia Broadcasting System 1942-46; developed application of social science to advertising, public service, politics (motivational research); Pres. Ernest Dichter Associates International Ltd. *Publications:* Successful Living 1947, Strategy of Desire 1960, Handbook of Consumer Motivations 1964, Motivating Human Behavior 1971, The New World of Packaging 1973, Why Not: Management Problems of the 70s 1973, Die zweite Karriere 1976, Total Self Knowledge 1976, Motivforschung Mein Leben 1977, Getting Motivated by Ernest Dichter 1979. *Leisure interests:* gardening, painting, bee-keeping, *Address:* P.O. Box 217, Albany Post Road, Croton-on-Hudson, N.Y. 10520, U.S.A. *Telephone:* (914) CR-1-8774.

DICK, John Kenneth, C.B.E., F.C.A., F.R.S.A.; British chartered accountant and executive; b. 5 April 1913; s. of late John Dick and Beatrice May Dick (née Chitty); m. Pamela Madge Salmon 1942; three s. (one deceased); ed. Sedbergh School; qualified with Mann Judd & Co., Chartered Accountants 1936, Partner 1947; Joint Man. Dir. Mitchell Cotts Group Ltd. 1957, sole Man. Dir. 1959, Deputy Chair. 1964, Chair. 1966-78; mem. Commonwealth Devt. Corpn. 1967; mem. British Nat. Export Cttee. 1968-71; Chair. Cttee. for Middle East Trade 1968-71; a Vice-Pres. Middle East Assn. 1970, Pres. 1977-; Chair. Hume Holdings Ltd., N.M. Rothschild (Leasing) Ltd.; Dir. N.M. Rothschild and Sons Ltd., Esperanza Trade and Transport Ltd.; mem. Covent Garden Market Authority. *Leisure interest:* golf. *Address:* "Overbye", 18 Church Street, Cobham, Surrey, England. *Telephone:* 01-623 1090 (Office).

DICKE, Robert H(enry), A.B., PH.D.; American physicist; b. 6 May 1916, St. Louis, Mo.; s. of Oscar H. and Flora P. Dicke; m. Annie Dicke 1942; two s. one d.; ed. Princeton Univ. and Univ. of Rochester, Microwave Radar Devt., M.I.T. 1941-46; Physics Faculty, Princeton Univ. 1946-, Cyrus Fogg Brackett Prof. of Physics 1957-75, Albert Einstein Prof. of Science 1975-, Chair. Physics Dept., Princeton Univ. 1967-70; mem. Advisory Panel for Physics, Nat. Science Foundation 1959-61; Chair. Advisory Cttee. on Atomic Physics, Nat. Bureau of Standards 1961-63; mem. N.A.S.A. Cttee. on Physics 1963-70, Chair. 1963-66; Chair. Physics Panel, Advisory to Cttee. on Int. Exchange of Persons (Fulbright-Hays Act) 1964-66; mem. Visiting Cttee. Nat. Bureau of Standards 1974-; Fellow American Physical Soc., American Geophysical Union, American Acad. of Arts and Sciences; mem. American Astronomical Soc., Nat. Acad. of Sciences, American Philosophical Soc.; Nat. Science Board 1970-76; Assoc. Royal Astronomical Soc.; Hon. D.Sc. (Edinburgh) 1972; Rumford Medal, American Acad. of Arts and Sciences 1967, Nat. Medal of Science 1970, Comstock Prize, Nat. Acad. of Sciences 1973, Medal for Exceptional Scientific Achievement, NASA, 1973, Cresson Medal, Franklin Inst. 1974. *Publications:* (with Montgomery and Purcell) Principles of Microwave Circuits 1948 (with J. P. Wittke) An Introduction to Quantum Mechanics 1960, The Theoretical Significance of Experimental Relativity 1964, Gravitation and the Universe 1970. *Address:* 321 Prospect Avenue, Princeton, N.J. 08540, U.S.A. (Home).

DICKEL, Col.-Gen. Friedrich; German army officer and politician; b. 9 Dec. 1913, Wuppertal-Vohwinkel; ed. elementary school; fmr. moulder; mem. Communist Youth League 1928-31; mem. Kommunistische Partei Deutschlands until 1946, Sozialistische Einheitspartei (S.E.D.) 1946-, mem. Cen. Cttee. 1967-; fought in Spanish Civil War 1936-37; First Deputy Minister of Nat. Defence 1956-57; studied at General Staff Academy of U.S.S.R. 1957-59; Deputy Minister of Nat. Defence 1959-63; Minister of Interior and Chief of People's Police (Volkspolizei) 1963-; Col.-Gen. 1965-; Deputy to Volkskammer 1967-; Karl Marx Orden, Vaterländischer Verdienstorden in Gold and other decorations. *Address:* Innenministerium, Berlin Mauerstrasse 29/31, 108 Berlin, German Democratic Republic (Home).

DICKENS, Frank, M.A., D.SC., PH.D., F.INST.BIOL., F.R.S.; British biochemist; b. 1899, Northampton; s. of John William and Elizabeth Ann Dickens; m. Molly Jelleyman 1925; two d.; ed. Northampton Grammar School and Magdalene Coll., Cambridge; Lecturer in Biochemistry, Middlesex Hospital Medical School, at same time working for Medical Research Council 1929-31; mem. Scientific Staff, Medical Research Council 1931-33; Research Dir. North of England Council of British Empire Cancer Campaign 1933-46; mem. Scientific Advisory Cttee. of British Empire Cancer Campaign 1934-; Research for Naval Personnel Cttee. of Medical Research Council, Nat. Inst. for Medical Research 1943-44; ■■ Editor of Biochemical Journal 1937-47; Philip Hill Prof. of Experimental Biochemistry, Middlesex Hosp. Medical School, Univ. of London 1946-67; Chair. British Nat. Cttee. for Biochemistry 1964-66; fmrly. Dir. Tobacco Research Council's Laboratories 1967-69; Hon. D.Sc. (Newcastle-upon-Tyne) 1972; Hon. mem. Biochem. Soc. 1967-. *Publications:* Chemical and Physical Properties of the Internal Secretions (with E. C. Dodds), translation of The Metabolism of Tumours (by O. Warburg), Editor Oxygen in the Animal Organism (with E. Neil), Carbohydrate Metabolism and its Disorders (with P. Randle and W. J. Whelan), Essays in Biochemistry (with P. N. Campbell). *Leisure interests:* fishing, photography. *Address:* 9 Doone End, Ferring, West Sussex, BN12 5PT, England (Home). *Telephone:* Worthing 43627.

DICKENS, Monica Enid; British author and journalist; b. 10 May 1915, London; d. of late Henry Charles and Fanny Runge Dickens; m. Commdr. Roy Stratton, U.S.N. 1951; two d.; ed. Norland Place School, London and St. Paul's Girls' School, London; first book published 1931; nursing, aircraft factory work during war 1939-45; resident in U.S.A. 1951- with annual visits to London; joined The Samaritans (suicide prevention) 1968, Dir. branch at Boston, Mass. (first in U.S.A.) 1974-. *Publications:* One Pair of Hands 1939, Mariana 1940, One Pair of Feet 1942, The Fancy 1942, Thursday Afternoons 1945, The Happy Prisoner 1946, joy and Josephine 1948, My Turn to Make the Tea (autobiography) 1951, The Winds of Heaven 1955, The Angel in the Corner 1956, Man Overboard 1958, The Heart of London 1961, Cobbler's Dream 1963, Kate and Emma 1964, The Room Upstairs 1966, The Landlord's Daughter 1968, The Listeners 1970, Last Year When I Was Young 1974, The Horse of Follyfoot 1975, An Open Book 1978, and 10 children's books. *Leisure interest:* riding. *Address:* Box 386, North Falmouth, Mass. 02556; The Samaritans, 802 Boylston Street, Boston, Mass. 02199 U.S.A. *Telephone:* (617) 247-0220 (Office); (617) 563-3225 (Home).

DICKEY, James, B.A., M.A.; American poet; b. 2 Feb. 1923, Atlanta, Georgia; s. of Eugene and Maibelle Swift Dickey; m. 1st Maxine Syerson 1948 (died 1976), 2nd Deborah Dodson 1976; two s.; ed. Clemson Coll. and Vanderbilt Univ.; served Second World War with U.S. Army Air Force and U.S. Air Force in Korea; Consultant in Poetry, Library of Congress, Washington 1966-68; Sewanee Review Fellow 1954-55, Guggenheim Fellow 1962-63; writer in residence and Prof. of English, Univ. of S. Carolina 1968-; Vachel Lindsay Award and Longview Award 1959; Prix Médicis 1971. *Publications:* Poems: Into the Stone 1960, Drowning with Others 1962, Helmets 1964, Two Poems of the Air 1964, Buckdancer's Choice 1965 (Nat. Book Award), Poems 1959-1967 1967, The Eye-Beaters 1970, Self-Interviews 1970, Sorties 1971, Exchanges 1971, Jericho: The South Beheld 1974, The Zodiac 1976, God's Images 1977; Criticism: The Suspect in Poetry 1964; novel: Deliverance 1970. *Address:* 4620 Lelia's Court, Columbia, South Carolina 29206, U.S.A. *Telephone:* (803) 787-9962.

DICKEY, John Sloan, A.B., J.D.; American college president and lawyer; b. 4 Nov. 1907, Lock Haven, Pa.; s. of John W. Dickey and Gretchen Sloan Dickey; m. Christina M. Gillespie 1932; one s. two d.; ed. Dartmouth Coll., and Harvard Law School; began practice in Boston 1932; Asst. to Asst. Sec. of State and Asst. to legal adviser, U.S. Dept. of State 1934-36; law practice with Gaston, Snow, Hunt, Rice & Boyd, Boston 1936-40; Special Asst. to Sec. of State 1940; Special Asst. to Co-ordinator of Inter-American Affairs 1940-44, and detailed to U.S. Dept. of State ■■ Chief, Div. of World Trade Intelligence; Dir. Office of Public Affairs, Dept. of State 1944-45, and served ■■ public liaison officer U.S. del., UN Conf. on Int. Org., San Francisco 1945; Pres. of Dartmouth Coll. 1945-70, Pres. Emer. and Bicentennial Prof. of Public Affairs 1970-. *Publications:* Contributor to The Secretary of State 1960, Editor The United States and Canada 1964, Canada and the American Presence 1975, The Dartmouth Experience 1977. *Leisure interests:* fishing, hunting, conservation. *Address:* Dartmouth College, Hanover, New Hampshire; 11 Lyme Road, Hanover, New Hampshire 03755, U.S.A. (Home). *Telephone:* 603-646-3578 (Office); 603-643-3034 (Home).

DIDRIKSEN, Jan, LL.M.; Norwegian lawyer and business executive; b. 15 May 1917; m. Dagmar Mellgren 1946; ed. Oslo Univ. and Harvard Business School; District Commdr. Underground Mil. Forces 1941-42; Judge 1946-54; Chief, Law Dept., Norwegian Employers' Fed. 1954-62, Del. to Int. Labour Org. (ILO) 1956-62; Dir. Fed. of Norwegian Industries 1963-65, Dir.-Gen. 1965-. *Address:* Norges Industriforbund, Drammensveien 40, P.O. Box 2435 Solli, Oslo 2 (Office); Sörkedalsveien 94, Oslo 3, Norway (Home). *Telephone:* Oslo 56-43-90 (Office); Oslo 14-48-52 (Home).

DIEBENKORN, Richard; American artist; b. 22 April 1922, Portland, Ore.; s. of Richard Diebenkorn and Dorothy Stephens; m. Phyllis Gilman 1943; one s. one d.; ed. Stanford Univ., Univ. of California and New Mexico and California School of Fine Arts; Teacher, Calif. School of Fine Arts 1947-50, Univ. of Ill. 1952-53, Calif. Coll. of Arts and Crafts 1955-60, San Francisco Art Inst. 1961-66; Prof. of Art; Univ. of Calif. at Los Angeles 1966-73; Artist-in-residence, Stanford Univ. 1963-64; Tamarind Fellowship 1962; mem. Nat. Council on the Arts 1966-69; first one-man exhbn. San Francisco 1948; numerous one-man exhbns. in cities throughout U.S.A. 1948-, Tate Gallery, London 1964; has exhibited in many group shows at Guggenheim Museum, Carnegie Internationals, Museum of Modern Art, San Francisco Museum of Art, Art. Inst. of Chicago, Museum of Fine Arts, Boston, Whitney Museum of American Art, New York, etc.; Venice Biennale 1968, retrospective exhbn. Albright Knox Art Gallery, Buffalo, New York 1977, Venice Biennale 1978, McDowell Medal 1978. *Publication:* Drawing 1965. *Address:* 334 Amalfi Drive, Santa Monica, Calif. 90402, U.S.A.

DIEBOLD, John, M.B.A., LL.D., SC.D., D.ENG.; American management consultant; b. 8 June 1926, Weehawken, N.J.; s. of William and

Rose (Theurer) Diebold; m. Doris Hackett 1951; one d.; ed. Swarthmore Coll. and Harvard Business School; with Griffenhagen & Assocs., management consultants, New York City, also Chicago 1951-57, owner 1957-, merged with Louis J. Kroeger and Assocs. to become Griffenhagen-Kroeger Inc. 1960; established Diebold Group Inc., New York City 1954, Pres., Chair. Board, Los Angeles, San Francisco, Washington, Chicago 1954-; est. Urwick Diebold Ltd., England 1958, Co-Chair. 1958-; est. Raadgevend Bur. Berenschot-Diebold, N.V. 1958, Diebold Europe, S.A., Pres. 1960-; Chair. Diebold Computer Leasing Inc. 1967-, Gemini Computer Systems Inc. 1968-, Intermodel Transport Systems Inc. 1969-; Dir. Genesco 1969-; U.S. Council Trusteeship, Int. Chamber of Commerce 1972–; Dir. Acad. for Educ. Devt. 1972-; Trustee Carnegie Inst., Washington 1975-; Order of Merit, Italy; Grand Cross 1971; coiner of word automation. *Publications:* Automation—The Advent of the Automatic Factory 1952, Beyond Automation 1964, Man and the Computer Technology ■ an Agent of Social Change 1969, Business Decisions and Technological Change 1970; Editor World of the Computer 1973. *Address:* John Diebold and Assoc., 430 Park Avenue, N.Y. 10022, U.S.A. (Office).

DIEDERICHS, Georg, DR.RER.POL.; German politician; b. 2 Sept. 1900; ed. Univs. of Göttingen and Rostock. Soldier 1918-19; mem. German Democratic Party 1926-30, Social Democratic Party 1930–; in pharmaceutical industry 1930-45; concentration camp and prison for illegal resistance work 1935, 1936; soldier 1939-45; Mayor, Northeim 1945-46; M.P. Council 1948-49; mem. Landtag, Lower Saxony 1947-; Vice-Pres. Lower Saxony Landtag 1955-57, Minister for Social Affairs 1957-61, Prime Minister 1961-70; mem. (Federal) Bundersrat 1962-, Deputy Pres. 1962-63, Pres. 1963-64. *Address:* Leinerandstrasse 23, Laatzen near Hanover, Federal Republic of Germany.

DIEFENBAKER, Rt. Hon. John George, C.H., P.C., Q.C., M.A., LL.B., F.R.S.C., M.P.; Canadian lawyer and politician, b. 18 Sept. 1895, Grey County, Ont.; s. of William and Mary (Bannerman) Diefenbaker; m. 1st Edna Brower 1929 (deceased), 2nd Olive Palmer (née Freeman) 1953 (died 1976); ed. Saskatchewan Univ. Served overseas with Canadian Army 1916-17; called to Bar of Saskatchewan 1919; King's Counsel 1929; Vice-Pres. Canadian Bar Assn. 1939-42; mem. Canadian Parl. 1940; Leader Progressive Cons. Party Dec. 1956-Sept. 1967; Prime Minister of Canada June 1957-April 1963; Chancellor of Univ. of Saskatchewan 1969-; Fellow Royal Soc. of Arts, Fellow Royal Soc. of Canada; Fellow Royal Architectural Inst. of Canada; Hon. Bencher, Gray's Inn, London; 35 hon. degrees; Hon. Fellow (Bar-Ilan Univ., Israel); Hon. Freeman of City of London 1963; Scottish Rite Mason. *Publications:* One Canada, The Crusading Years 1895-1956 (Vol. I) 1976.
[Died 16 August 1979].

DIEHL, Günter; German diplomatist; b. 8 Feb. 1916, Cologne; m. Helga von Rautenstrauch 1939; three s. one d.; ed. Univ. of Cologne, and Université de Bordeaux; entered Diplomatic Service 1939; Foreign Office 1945; Foreign Ed. Hamburger Abendblatt 1948; Foreign Dept. Press Office 1950; Foreign Office Spokesman 1952; Counsellor German Embassy, Santiago 1956; Head of Foreign Dept. Press and Information Service 1960; Head Planning Div. Foreign Office 1966; Chief, Press and Information Office, Fed. Republ. of Germany 1967-69; Amb. to India 1970-77, to Japan 1977-. *Leisure interests:* painting, shooting, fishing. *Address:* Embassy of the Federal Republic of Germany, C.P.O. Box 955, Tokyo, Japan.

DIEHL, Val B.; American business executive; b. 1917, Mitchell, S. Dakota; ed. Dakota Wesleyan Univ.; joined Nabisco Inc. 1942; U.S. Navy; various sales posts, Nabisco Inc. until 1954, Asst. Dir. of Int. Operations 1954-56; Chair. Nabisco Foods Ltd., U.K. 1956-61; Asst. to Pres., Nabisco Inc. 1961, Vice-Pres. Int. Div. 1962, Exec. Vice-Pres., Dir., mem. Exec. Cttee. 1968, Pres., Chief Operating Officer 1973-. *Address:* Nabisco Inc., East Hanover, New Jersey 07936, U.S.A. *Telephone:* (212) 751-5000.

DIEMINGER, Walter E., DR. RER. TECH.; German aeronomist; b. 7 July 1907, Würzburg; s. of Ludwig and Anna (née Kraus) Dieminger; m. Dr. Ilse Günther 1935; two s. one d.; ed. Humanistisches Gymnasium, Würzburg and Technische Hochschule, Munich. Research Scientist, German Air Force Test Centre 1934-43; Head, Advisory Org. for Radio Propagation 1943-45; Head, Inst. for Ionospheric Research 1945-56; Man. Dir. Max-Planck-Inst. für Aeronomie 1956-65, Dir. 1965-75; Hon. Pres. German Nat. Cttee. URSI; mem. Finnish Acad. of Sciences, Acad. Leopoldina, Int. Acad. of Astronautics, Austrian Acad. of Sciences; Vice-Pres. URSI 1966-69, Pres. 1969-72, Hon. Pres. 1978; F. C. Gauss-Medal 1972, Cross of Merit, Hon. Citizen Community Kathenburg-Lindau. *Publications:* about 100 articles on radio propagation, aeronomy and space research; contribs. to encyclopaedias (including Brockhaus). *Leisure interests:* amateur radio, model railway, photography. *Address:* D 3412 Noerten-Hardenberg 1, O. T. Elvese, Berlinerstrasse 14, Federal Republic of Germany.

DIENESCH, Marie-Madeleine; French politician; b. 1914, Cairo, Egypt; ed. Coll. Sainte Marie, Neuilly, Coll. Sévigné and Sorbonne, Paris. Prof. Lycée de Saint-Brieuc; Founder and Sec. Syndicat Général de l'Education Nationale des Côtes-du-Nord (S.G.E.N.) 1944; Founder and Pres. Union Féminine Civique et Sociale des Côtes-du-Nord 1944; Rep. to Nat. Constituent Assembly 1945-46; Rep. to Nat. Assembly 1946-; Vice-Pres. 1958-59; Int. Vice-Pres. Union of European Women 1962; Sec. of State for Educ. June-July 1968, for Social Affairs 1968-69, for Social Welfare 1969; Sec. of State at Ministry of Health, responsible for Social Welfare 1972-74; Amb. to Luxembourg 1975-78; Chevalier, Légion d'honneur. *Address:* 79 avenue de Breteuil, Paris 15e, France (Home).

DIESEL, Jurgen, DR.JUR.; German diplomatist; b. 4 Jan. 1926, Berlin; m. Elenore von Dungern 1954; one s. two d.; ed. Univs. of Erlangen and Munich. Diplomatic Acad., Spreyer 1952-54; Attaché, German Embassy, Santiago 1954-56, First Sec., Caracas 1956-60; Disarmament Section, Ministry of Foreign Affairs 1960-64; Disarmament Negotiations, Geneva 1964-68; head, E. European Div., Ministry of Foreign Affairs 1968-73; Amb. to Switzerland 1973-77; decorations from Chile, Romania, Sweden, Venezuela, Italy. *Leisure interests:* filming, mountains, travelling. *Address:* 81800 Braha 1, Vlasaka 19, Federal Republic of Germany.

DIETRICH, Helmut, DR.RER.OEC.; German banker; B. 23 March 1922; ed. Hochschule für Ökonomie, Berlin. Pres. Deutsche Investitionsbank 1963-64; Pres. Deutsche Notenbank 1964-67; Vice-Pres. Staatsbank der Deutschen Demokratischen Republic 1967-71; Pres. Deutsche Aussenhandelsbank AG 1971-78; ■■■ Socialist Unity Party 1946-; Vaterländischer Verdienstorden in Silber, Verdienstmedaille der Deutschen Demokratischen Republik, etc. *Address:* c/o Deutsche Aussenhandelsbank AG, 108 Berlin, Unter den Linden 24-30, German Democratic Republic.

DIETRICH, Marlene; German-born American actress and singer; b. (as Maria Magdalena von Losch) 27 Dec. 1901; ed. Augusta Victoria School, Berlin; début in Berlin: worked with Max Reinhardt 1922-29; emigrated to U.S. 1930; numerous stage and cabaret appearances; Officier, Légion d'honneur 1972, U.S. Medal of Freedom. *Films include:* The Blue Angel 1930, Morocco 1930, Dishonoured 1931, Shanghai Express 1932, Blonde Venus 1932, Song of Songs 1933, The Scarlet Empress 1934, The Devil is ■ Woman 1935, Desire 1936, The Garden of Allah 1936, Knight Without Armour 1937, Angel 1937, Destry Rides Again 1939, Seven Sinners 1940, The Flame of New Orleans 1941, Manpower 1941, The Spoilers 1942, Kismet 1944, A Foreign Affair 1948, Stage Fright 1950, Rancho Notorious 1952, Around the World in Eighty Days 1956, Witness for the Prosecution 1957, Touch of Evil 1958, Judgement of Nuremburg 1961, Just ■ Gigolo 1978. *Address:* c/o Capitol, 1750 Vine Street, Hollywood, Calif., 90028, U.S.A.

DIETZ, David (Henry), A.B., LITT.D., LL.D.; American newspaper editor and author; b. 6 Oct. 1897, Cleveland, Ohio; s. of Henry and Hannah (Levy) Dietz; m. Dorothy Cohen 1918; one s. two d.; ed. Western Reserve Univ.; mem. Editorial staff The Cleveland Press 1915-77; Science Editor Scripps-Howard Newspapers 1921-77; Lecturer in Gen. Science, Western Reserve Univ. 1927-50; Visiting Lecturer on the Science of Modern War at Yale Univ. 1942; Science Commentator, Nat. Broadcasting Co. 1945-50; was Consultant to the Surgeon-General of the U.S. Army during Second World War; newspaper corresp. and radio commentator, atomic bomb tests, Bikini 1946; Winner Pulitzer Prize in Journalism 1937; Westinghouse Award for Distinguished Science Writing 1945; Lasker Medical Journalism Award 1954; James T. Grady Award 1960; Hon. Litt.D. (Western Reserve Univ.) 1948; Hon. LL.D. (Bowling Green State Univ.) 1954. *Publications:* The Story of Science 1931, Medical Magic 1937, Atomic Energy in the Coming Era 1945; article on "The Atomic Bomb" in the 1946 edition of the Encyclopaedia Britannica, Atomic Science, Bombs and Power 1954, All about Satellites and Space Ships 1958, All About Great Medical Discoveries 1960, All About the Universe 1965, Stars and the Universe 1969, The New Outline of Science 1972. *Leisure interests:* violin, golf, book-collecting. *Address:* 2891 Winthrop Road, Shaker Heights, Ohio 44120, U.S.A. *Telephone:* 991-3834.

DIETZFELBINGER, Herman, German ecclesiastic; b. 14 July 1908, Ermershausen; s. of Wilhelm Adam Dietzfelbinger and Magdalena Nicol; m. Hedwig Bettina Stählin 1935; four s. three d.; ed. Friedrich-Alexander-Univ. zu Erlangen-Nürnberg. Eberhard-Karls Univ., Tübingen, and Ernst Moritz Arndt-Univ., Greifswald. Prot-

estant Bishop of Bavaria 1955-75; Pres. Council of German Evangelical Church 1967-73. *Publications:* Hören, wie Jünger hören 1975, Die bessere Freiheit 1975, Oberstdorfer Gespräche 1977, Jesus Christus und die Weisen aus dem Abendland 1978. *Address:* 8000 Munich 22, Himmelreichstr. 4, Federal Republic of Germany. *Telephone:* 089 292 030.

DIEUDONNÉ, Jean Alexandre, D. ES SC.; French university professor; b. 1 July 1906, Lille (Nord); s. of Ernest Dieudonné and Léontine Lebrun; m. Marie Odette Clavel 1935; one s. one d.; ed. Ecole Normale Supérieure and Inst. of Advanced Study, Princeton. Asst. Prof., Univ. of Rennes 1933-37, Univ. of Nancy 1937-48; Prof., Univ. of Nancy 1948-52, Univ. of Michigan 1952-53, Northwestern Univ. 1953-59, Inst. des Hautes Etudes Scientifiques, Paris 1959-64, Univ. of Nice 1964-70; retd. 1970; mem. French Acad. of Sciences; Pres. Soc. Mathématique de France 1964-65; Officier Légion d'honneur. *Publications* La géométrie des groupes classiques 1955, Foundations of Modern Analysis 1960, Eléments d'Analyse II 1968, III 1970, IV 1971, V-VI 1975, VII, VIII 1978, Calcul infinitésimal 1968, Introduction to the Theory of Formal Groups 1973, Cours de Géométrie Algébrique (2 vols.) 1974; 130 papers in mathematical journals. *Leisure interests:* music, cooking, gardening. *Address:* 119 Avenue de Brancolar, 06 Nice; 10 rue du Général Camou, Paris 7e, France. *Telephone:* 705-14-56 (Paris).

DIJOUD, Paul Charles Louis; French politician; b. 25 July 1938, Neuilly-sur-Seine; s. of Jules-Raoul Dijoud and Andrée Claquin; m. Catherine Cochaux 1968; one s. one d.; ed. Lycée Condorcet, Faculté de Droit de Paris, Inst. d'Etudes politiques de Paris. Student at Ecole Nat. d'Admin. 1964-66; Commercial attaché, dept. of external econ. relations in Ministry of Econ. and Finance; mem. Parl. for Hautes-Alpes 1967-; Asst. Sec.-Gen. Ind. Republican Party 1967-69; Conseiller Général for canton of Embrun 1968-; Pres. Ind. Republican Exec. Cttee. for Provence-Côte d'Azur 1968-; Mayor of Briançon 1971-; Sec. of State attached to Prime Minister's Office 1973-, later to Minister of Cultural Affairs and the Environment, to Minister of Employment with Responsibility for Immigrant Workers 1974-. *Address:* Immeuble "la Durance", 05200 Embrun, France.

DIKE, Kenneth Onwuka, PH.D.; Nigerian historian; b. 17 Dec. 1917; ed. Dennis Memorial Grammar School (Onitsha), Achimota Coll. (Ghana), Fourah Bay Coll. (Sierra Leone), Univs. of Durham, Aberdeen and London. Lecturer in History. Univ. Coll. Ibadan 1950-52, Senior Lecturer 1954-56, Prof. History 1956-60, Principal 1958-60; Vice-Chancellor, Univ. of Ibadan 1960-66; Founder-Dir. Nigerian Nat. Archives 1951-64; Senior Research Fellow, West African Inst. of Social and Econ. Research 1952-54; Chair. Nigerian Antiquities Comm. 1954-67; Pres. Historical Soc. of Nigeria 1955-69; Dir. Inst. of African Studies, Univ. of Ibadan 1962-67; Chair. Planning Cttee., Univ. of Port Harcourt 1967-70; Prof. of History, Harvard Univ. 1971-73, of African History 1973-; Fellow Royal Historical Soc.; Hon. LL.D. (Aberdeen, Leeds, Northwestern, London, Columbia, Princeton, Ahmadu Bello Univs.); Hon. D.Litt. (Boston and Birmingham), Hon. D.Sc. (Moscow) *Publications:* Report on the Preservation and Administration of Historical Records in Nigeria 1953, Trade and Politics in the Niger Delta 1830-1890 1956, A Hundred Years of British Rule in Nigeria 1957, The Origins of the Niger Mission 1958; numerous articles in learned journals on Nigerian and West African history. *Address:* 275 Widener Library, Harvard University, Cambridge, Mass. 02138, U.S.A.

DIKSHIT, Umar Shankar; Indian politician and journalist; b. 12 Jan. 1901, Ugo, Uttar Pradesh; s. of late Ram Swarup Dikshit; m. Shiva Pyari Dikshit; one s.; ed. Govt. School and Christchurch Coll., Kanpur; Sec. Kanpur City Congress Cttee. and mem. Uttar Pradesh Congress Cttee. 1920-25; imprisoned for participation in Non-Co-operation Movt. 1921-23; Pres. Uttar Bharatiya Sabha and Hindi Bhashi Sammendan 1925-30; active in underground movt. 1932, imprisoned 1930, 1932-33; Hon. Sec. Hindustani Prachar Sabha, Bombay 1934-41; joined Quit India Movt. 1942, detained until 1944; Custodian Evacuee Property, New Delhi 1948-52; Hon. Adviser, Nat. Small Industries Corpn. 1956; Man. Dir. Associated Journals Ltd., Lucknow 1957-; mem. Rajya Sabha 1961-76; mem. All India Congress Cttee., mem. and Hon. Treas. Indian Nat. Congress 1969-76, Gen. Sec. 1971-72; Minister of Health and Family Planning 1971-73, of Home Affairs 1973-74, without Portfolio 1974-75, of Shipping and Transport Feb.-Nov. 1975; Gov. of Karnataka 1976-77, resgnd. and rejoined working Cttee., All India Congress Cttee. Aug. 1977. *Leisure interests:* reading, swimming, badminton. *Address:* 2/1 I.E.N.S. Building, Rafi Marg, New Delhi; 2/1 Hazrat Mahal Marg Lucknow, India.

DIKUSHIN, Vladimir Ivanovich; Soviet mechanical engineer b. 8 Aug. 1902, Kuibyshev; ed. Moscow Higher Technical School. Experimental Scientific Research Inst. of Metal Cutting Lathes 1933-; Chief engineer of plan of first automatic factory in U.S.S.R.; specialist in field of machine-tool engineering; Corresp. mem. Acad. of Sciences of the U.S.S.R. 1943-53; State prizewinner 1941, 1951; Hero of Socialist Labour 1969; Order of Lenin (three); Hammer and Sickle Gold Medal and other decorations. *Publications include:* Ultrasonic Erosion and its Dependence on Vibration Characteristics of Tool 1958.
[Deceased].

DILHORNE, 1st Viscount, cr. 1965, 1st Baron, cr. 1962; **Reginald Edward Manningham-Buller,** Bt., Kt., P.C., Q.C., B.A.; b. 1 Aug. 1905, Latimer, Bucks.; s. of Sir Mervyn Manningham-Buller, Bt. and the Hon. Lilah Cavendish; m. Lady Mary Lindsay 1930; one s. three d.; ed. Eton Coll. and Magdalen Coll., Oxford; called to Inner Temple Bar 1927, Treas. 1975; M.P. 1943-62; Solicitor-Gen. 1951-54; Attorney-Gen. 1954-62; Lord Chancellor 1962-64; Lord of Appeal in Ordinary 1969-. *Leisure interests:* shooting, fishing. *Address:* 6 King's Bench Walk, Temple, London, E.C.4 (Office); Horninghold Manor, Market Harborough, Leics., England (Home). *Telephone:* 01-583 5836 (London); Hallaton 641 (Home).

DILLARD, Hardy Cross, B.S., LL.B., LL.D.; American judge and former professor; b. 23 Oct. 1902, New Orleans, La.; s. of James Hardy Dillard and Avarene Budd Dillard; m. 1st Janet Schauffler 1934 (died 1970), one s. one d.; m. 2nd Valgerdur Nielsen Dent 1972; ed. U.S. Military Acad., Univs. of Virginia and Paris and Inst. des Hautes Etudes Internationales; Asst. and Assoc. Prof. Univ. of Va. Law School 1927-29, 1932-38, Prof. 1938-58, James Monroe Prof. of Law 1958-70, Dean 1963-68; private law practice 1929-30; Carnegie Endowment Fellow 1930-31; Dir. Inst. of Public Affairs (Univ. of Va.) 1939-42; served U.S. Army 1943-46; Dir. of Studies Nat. War Coll. 1946-47; Board of Consultants 1951-54; mem. Comm. to revise constitution of Va. 1968-69; Advisory Council U.S. Air Force Acad. 1966-70, and various consultancy work to public and private orgs. until 1970; Judge, Int. Court of Justice, The Hague 1970-79; mem. Arbitral Tribunal in Beagle Channel case between Argentina and Chile 1971-77; Lecturer, Oxford Univ. 1953, Hague Acad. Of Int. Law 1957, Sibley Lecturer, Univ. of Georgia 1962, Visiting Prof. Columbia Univ. Law School 1962-63, Tucker Lecturer, Washington and Lee Univ. 1965, Bailey lecturer Louisiana State Univ. 1966, Irvine Lecturer Cornell Univ. 1972, Moers Lecturer, American Univ. Law School 1977; Pres. American Soc. of Int. Law 1963; mem. Council American Law Inst., Soc. of the Cincinnati, and Editorial Boards of American Journal of International Law and Virginia Quarterly Review; Fellow, World Acad. of Science and Letters; Raven and Thomas Jefferson Awards of Univ. of Va., Bronze Star Medal and Legion of Merit with Oak Leaf Cluster, Distinguished Civilian Award of U.S. Air Force. *Publications:* Some Aspects of Law and Diplomacy; about 125 articles and reviews in technical and non-technical journals. *Leisure interests:* reading, grandchildren. *Address:* International Court of Justice, Peace Palace, The Hague, Netherlands; 1221 Rugby Road, Charlottesville, Va. 22903, U.S.A. *Telephone:* 070-92-44-41 (Peace Palace); 804-295-5992 (Home).

DILLER, Hans, PH.D.; German professor of classics; b. 8 Sept. 1905, Worms; s. of the late Gustav and Klara (née Tent) Diller; m. Inez Sellschopp 1932; two s.; ed. Univs. of Frankfurt/Main, Hamburg, Munich and Florence; Lecturer, Leipzig Univ. 1932; Lecturer, Hamburg Univ. 1933; Prof. at the Univ. of Rostock 1937; Prof. Univ. of Kiel 1942-75; mem. Akademie der Wissenschaften und der Literatur, Mainz, 1952; Ed. Hermes and Zetemata; Dr. Phil. h.c. Athens; Dr. Med. h.c. Kiel. *Publications:* Die Überlieferung der hippokratischen Schrift, etc. 1932, Wanderarzt und Aitiologe 1934, Göttliches und menschliches Wissen bei Sophokles 1950, Die Bakchen und ihre Stellung im Spätwerk des Euripides 1955, Hippokrates, Schriften: Die Anfänge der abendländischen Medizin 1962, Die dichterische Form von Hesiods Erga 1962, Sophokles-Wege der Forschung 1967, Hippocrates, De aere aquis locis edidit et in linguam Germanicam vertit, CMG I 1, 2 1970, Kleine Schriften zur antiken Literatur 1971, Zur Periodisierung des geschichtlichen Ablaufs in der griechischen Antike 1972, Kleine Schriften zur griechischen Medizin 1973. *Leisure interests:* history and art of Schleswig-Holstein. *Address:* Sternwartenweg 18, 23 Kiel, Federal Republic of Germany. *Telephone:* Kiel 85194.

DILLON, Brendan, M.A.; Irish diplomatist; b. 30 Nov. 1924, Dublin; s. of William Dillon and Pauline Kerrigan; m. Alice O'Keeffe 1949; four s. one d.; ed. Blackrock Coll. and Univ. Coll., Dublin; Chief of Protocol, Ministry of Foreign Affairs 1968; Amb. to Denmark, concurrently to Norway and Iceland 1970; Asst. Sec.-Gen., Ministry of Foreign Affairs 1972; Amb., Perm. Rep. to European

Communities Aug. 1973-. *Address:* Permanent Representation of Ireland to the European Communities, avenue Galilée 5, 1030 Brussels, Belgium. *Telephone:* 218-06-05.

DILLON, C. Douglas, A.B.; American investment banker and diplomatist; b. 21 Aug. 1909, Geneva; s. of Clarence and Anne (Douglass) Dillon; m. Phyllis Elsworth 1931; two d.; ed. Groton School and Harvard Coll.; mem. New York Stock Exchange 1931-36; with U.S. and Foreign Securities Corpn. and U.S. and Int. Securities Corpn. 1937-53, Pres. 1946-53, 1967-, Dir. 1938-53, 1967–; Dir. Dillon, Read & Co. Inc. 1938-53, Chair. of Board 1946-53, Chair. of Exec. Cttee. 1971-; served ■ Ensign, advancing to Lieut.-Commdr. U.S.N.R. 1941-45; awarded Air Medal, Legion of Merit with Combat Device; American Amb. to France Jan 1953-57; Under-Sec. of State for Econ. Affairs 1957-59; Under-Sec. of State 1959-61; Sec. of the Treasury 1961-65; Chair. Rockefeller Foundation; Pres. Metropolitan Museum of Art 1970-; Hon. LL.D. (Harvard, Columbia, New York, Hartford, Rutgers, Pennsylvania and Princeton Univs., Lafayette, Williams and Middlebury Colls.); Republican. *Address:* 767 Fifth Avenue, New York, N.Y. 10022, U.S.A. *Telephone:* 18 06 05.

DILLON, Ian Birt Harper; Rhodesian ex-politician; b. 18 April 1915, Salisbury; s. of Charles and Ivy Dillon; m. Maureen M. Comley 1939; three s. two d.; ed. Gatooma and Hartley Schools and St. George's Coll., Salisbury; mine manager 1954-59; Councillor, Belingwe/Shabani Road Council 1954-59; M.P. for Shabani Constituency 1958-77; Chief Govt. Whip 1962-64; Parl. Sec. (subsequently Deputy Minister) to Minister of Mines and Lands 1964-68; Minister of Mines 1969-77. *Leisure interest:* golf, fishing. *Address:* 6 Cuba Avenue, Mount Pleasant, Salisbury, Zimbabwe Rhodesia. *Telephone:* Salisbury 33562.

DILLON, James Mathew; Irish lawyer and politician; b. 1902; s. of John Dillon and Elizabeth Mathew; m. Maura Phelan 1942; one s.; ed. Mount St. Benedict and Nat. Univ. of Ireland; studied business org. in London and Chicago; barrister, King's Inns 1931; mem. Daíl for Co. Donegal 1932-37, for Co. Monaghan 1937-69; Minister of Agriculture 1948-51 and 1954-57; Leader of Fine Gael and of Opposition 1959-65; mem. Council of State; Knight Commdr. Order of St. Gregory the Great 1975. *Address:* Ballaghaderreen, Co. Mayo, Ireland.

DIMBLEBY, David, M.A.; British broadcaster and newspaper proprietor; b. 28 Oct. 1938, London; s. of the late Richard Dimbleby and of Dilys Thomas; m. Josceline Gaskell 1967; one s. two d.; ed. Charterhouse, Christ Church, Oxford, Univs. of Paris and Perugia; News Reporter, BBC, Bristol 1960-61; presenter and interviewer, various scientific, religious and political programmes, BBC TV 1961-63, Foreign Affairs Film Reporter and Dir. 1964-65; Special Corresp. CBS News 1966; Reporter, Panorama, BBC TV 1967-69, Presenter 1974-77; Presenter, 24 Hours, BBC TV 1969-72; Presenter Dimbleby Talk-In 1972-74; Man. Dir. Dimbleby Newspaper Group 1966-; Reporter The White Tribe of Africa, BBC TV 1978. *Leisure interests:* sailing, reading, music, not watching television. *Address:* 14 King Street, Richmond, Surrey, England.

DIMECHKIÉ, Nadim, B.A., M.A.; Lebanese diplomatist; b. 5 Dec. 1919, Lebanon; m. Margaret Alma Sherlock 1946; two s.; ed. American Univ. of Beirut; entered Ministry of Supply 1943, Dir. Econ. Affairs 1944; entered Foreign Service 1944; served London 1944-49, Ottawa 1949-51; Dir. Econ. and Social Dept., Ministry of Foreign Affairs 1951-52; Chargé d'affaires, Cairo 1952, Minister and Chargé d'affaires 1953-55; Minister to Switzerland 1955-57; Amb. to U.S.A. 1958-62; Dir. Econ. Affairs, Ministry of Foreign Affairs 1962-66; Amb to U.K. 1966-; Hon. K.C.V.O. 1978; Doyen of the Diplomatic Corps 1977-78; awards include Ordre du Cèdre, Egyptian Order of Ismail, Greek Order of Phoenix. *Leisure interest:* swimming. *Address:* c/o Ministry of Foreign Affairs, Beirut, Lebanon.

DIMÉNY, Dr. Imre, DR.AGR.; Hungarian agronomist and politician; b. 3 Aug. 1922, Komolló; s. of János Dimény and Anna Illyés; m. Erzsébet M. Buzgó 1947; one d.; Agronomic Engineer; rural, county and ministry official 1945-55; Dept. Head, later Vice-Pres. Nat. Planning Bureau 1955-62; Alt. mem. Cen. Cttee. and Leader Agricultural Dept. Hungarian Socialist Workers' Party 1962-66, mem. 1966-; Minister of Agriculture and Food 1967-75; Rector Univ. of Horticulture, Budapest 1975-. *Publications:* Determinants of the Power Machine Requirement in Domestic Agriculture 1961, Economy of Mechanization in Agriculture 1972, Agriculture and Technological Development 1973, Economy of Mechanization in Animal Husbandry 1974, Economy of Development of Mechanization in Agriculture 1975. *Leisure interest:* reading. *Address:* University of Horticulture, Budapest XI, Villányi ut 1935-41 (Office); Budapest II, Szilágyi Erzsébet Fasor 79, Hungary (Home).

DIMITRIOS I, (Dimitrios Papadopoulos); Archbishop of Constantinople and Ecumenical Patriarch; b. 8 Sept. 1914, Istanbul; ed. Theological School of Halki, Heybeliada-Istanbul; ordained Deacon 1937; ordained Priest 1942; Preacher in Edessa, Greece 1937-38; Preacher, Parish of Feriköy-Istanbul 1939-45; Priest of the Orthodox Community, Teheran 1945-50; Head Priest, Feriköy 1950-64; Bishop of Elaia, Auxiliary Bishop of the Patriarch Athenagoras in Istanbul 1964-72; Metropolitan of Imvros and Tenedos 1972; Archbishop of Constantinople and Ecumenical Patriarch July 1972-. *Address:* Rum Ortoks Patrikhanesi, H. Fener, Istanbul, Turkey. *Telephone:* 23-98-50; 21-19-21; 21-25-32.

DIMITRIOU, Nicos George, F.C.C.S.; Cypriot merchant banker, diplomatist and politician; b. 16 July 1920; m.; three d.; ed. Larnaca Commercial Lyceum, Greek Gymnasium, Athens, and Maiden Erlegh Private School, Reading, England; Man. and Sec. N. J. Dimitriou Ltd., Merchant Bankers 1952-62, Man. Dir. 1962-; Man. Dir. Larnaca Oil Works Ltd. 1963-73; Dir. several Cyprus cos; Dir. Bank of Cyprus Ltd. 1958-61; Chair. Cyprus Chamber of Commerce 1960-63; Pres. Chamber of Commerce and Industry, Larnaca 1963-68, mem. Council Cyprus Chamber of Commerce and Industry 1963-68; Pres. Cyprus Soc. of Inc. Secretaries 1968; Consul-Gen. of Denmark 1961-; Chair. Cyprus Devt. Corpn. Ltd. 1966-68; Minister of Commerce and Industry 1968-70; Chair. Electricity Authority of Cyprus 1970-73, Advisory Board Nat. and Grindlays Bank Ltd. 1970-73; Amb. to U.S.A. 1974; High Commr. of Cyprus to Canada also accred. to Argentina, Brazil, Chile, Mexico, Panama and Peru 1974-; Commdr. Order of Cedar of Lebanon, Order of the Dannebrog (Denmark). *Publication:* Chambers of Commerce, their Objects and Aims. *Leisure interests:* photography, riding, swimming, writing, golf. *Address:* Embassy of Cyprus, 2211 R Street, N.W., Washington D.C., U.S.A.; P.O. Box 18, Larnaca, Cyprus.

DINE, James; American artist; b. 1935, Cincinnati, Ohio; m. Nancy Minto 1957; three s.; ed. Cincinnati Art Acad.; first one-man exhbn. Reuben Gallery, New York 1960; has subsequently held numerous one-man exhbns. in U.S.A. and throughout Europe including Palais des Beaux Arts, Brussels 1963, 1970, Sidney Jannis Gallery, New York 1963, 1964, 1967, Robert Fraser Gallery, London 1965, 1966, 1969, Stedelijk Museum, Amsterdam (drawings) 1967, Museum of Modern Art, Munich 1969, Berlin Festival, Sonnabend Gallery, New York, and Whitney Museum of American Art, New York 1970; exhbn. of Designs for A Midsummer Night's Dream, Museum of Modern Art, New York 1967; has participated in numerous group exhbns. including Painting and Sculpture of a Decade, Tate Gallery, London 1964, Venice Biennale 1964, A Decade of American Drawings 1965, Young America 1965, and Art of the United States 1670-1966 1966 (all three at Whitney Museum of American Art), U.S. Pavilion, Expo 1967, Montreal, and Hayward Gallery, London 1969; work appears in many public collections including Guggenheim Museum, Moderna Museet, Stockholm, Museum of Modern Art, New York, Dallas Museum of Fine Arts, Tate Gallery, and Whitney Museum of Modern American Art. *Publications:* Welcome Home, Lovebirds 1969 (also illustrator); co-author and illustrator The Adventures of Mr. and Mrs. Jim & Ron 1970. *Address:* c/o Sonnabend Gallery, 924 Madison Avenue, New York City, N.Y. 10021, U.S.A.

DINESEN, Erling; Danish trade unionist and politician; b. 25 Feb. 1910; ed. Public School, Naestved, and Commercial School, Naestved; Pres. Roskilde Branch, Commercial and Office Employees' Union 1937; Sec. Danish Commercial and Office Employees' Union 1943-45, Business Man. 1945-49, Pres. 1949-63; mem. Exec. Board Danish Fed. of Trade Unions 1950-63, mem. Apprentice Council 1950-63; mem. Industrial Council of Labour Movement 1950-63, Cttee. of Productivity of Ministry of Commerce 1953-63, Labour Council 1954-63, Nat. Assessment Cttee. 1957-63, Cttee. of Social-Democratic Press in Denmark 1958-63, Exec. Cttee. of Int. Fed. of Commercial, Clerical and Technical Employees, Amsterdam 1952-63; Minister of Labour 1963-68, 1971, 1975-76; mem. Exec. Board Social-Democratic Party 1965-, Vice-Chair. 1969-72, Chair. 1972-73; mem. European Parl. 1977-. *Address:* Ullasvej 3, Bagsvaerd, Denmark. *Telephone:* 98-22-78.

DINI AHMED, Ahmed; Djibouti politician; b. 1932, Obock; Vice-Pres., Territorial Assembly, French Somaliland (now Repub. of Djibouti) 1959-60; Minister of Production 1963-64, of the Interior 1967-72; joined Ligue Populaire Africaine pour l'Indépendance 1972; Pres. Nat. Assembly of French Territory of the Afars and the Issas May-June 1977, of Repub. of Djibouti June-July 1977; Prime Minister July-Dec. 1977. *Address:* Assemblée Nationale, Djibouti, Republic of Djibouti.

DINITZ, Simcha, M.SC.; Israeli diplomatist; b. 23 June 1929, Tel Aviv; s. of Josef and Bruria Dinitz; m. Vivian Dinitz 1954; two d.

one s.; ed. Herzeliah High School, Tel Aviv, Univ. of Cincinnati and Georgetown Univ. School of Foreign Service; Israel Defence Forces 1948-50; Asst. to Dir. of Information Embassy of Israel, Washington 1954-58; Dept. of Information, Ministry for Foreign Affairs, Jerusalem 1958-61; Dir. of Bureau of Dir.-Gen. of Ministry for Foreign Affairs 1961-63; Dir. of Bureau and Political Sec. to Foreign Minister 1963; mem. Israel Del. to UN 1963-66; Minister to Rome 1966-68; Minister in charge of Information, Washington 1968-69; Political Adviser to Prime Minister 1969-73, also Dir.-Gen. of Prime Minister's Office 1972-73; Amb. to U.S.A. 1973-78. *Leisure interests:* music, sports, reading. *Address:* 40 Nayot, Jerusalem, Israel. *Telephone:* 32314.

DI NOLA, Raffaello; Italian business executive; b. 10 Aug. 1912, Naples; s. of Enrico di Nola and Maria Luisa de Rosa; m. Liliana Carisch 1942 (divorced); three c.; ed. Milan Univ.; commenced career with Rumianca (chemicals firm); joined the Pirelli Group 1939, subsequently became Gen. Man. and Man. Dir. and Dir. of other cos in the group; Man. Dir. Alfa Romeo S.p.A. 1962-74, Vice-Pres., and Man. Dir. Alfa Romeo Alfasud S.p.A.; Pres. Alfa Romeo Int. S.A.; Pres. Spica S.p.A.; Pres. Breda Termomeccanica S.p.A.; Pres. Termosud S.p.A.; mem. Board Banca Popolare di Milano; Cavaliere di Gran Croce della Repubblica Italiana. *Leisure interests:* riding, skiing. *Address:* Breda Termomeccanica S.p.A., Piazzetta Bossi 1, 20121 Milan, Italy. *Telephone:* 8858.

DIOP, Majhemout; Senegalese pharmacist and politician; b. 30 Sept. 1922, St. Louis; ed. Ecole Africaine de Médecine et de Pharmacie (Dakar), Paris Univ. and African Inst., Univ. of Moscow; Hospital pharmacist, Senegal and Gabon 1947-50; Pres. Senegalese students' assn. in France 1951; studied Marxism at Bucharest 1953-56; Sec.-Gen. Parti Africain de l'Indépendance (PAI) 1957-76, Pres 1976-; exiled from Senegal 1961-76; engaged in research in political sociology at Inst. of Human Sciences, Mali 1968-76; dispensary pharmacist, Dakar 1977-. *Publications:* Contribution à l'Etude des problems politiques en Afrique Noire 1959, Classes et Idéologies de class au Sénégal 1963, Notes sur la classe ouvriere sénégalaise 1965, Histoire des classes sociales dans l'Afrique de l'Ouest (Vol. I) 1971, (Vol. II) 1972, Etude sur le Salariat 1975, Essai sur l'esclavage en Afrique de l'Ouest (to be published); and many articles in review and journals. *Address:* 153 Avenue du Président Lamine Gueye, Dakar (Office); 210 HCM, Guediawaye, Dakar, Senegal (Home).

DIORI, Hamani; Niger politician; b. 16 June 1916; ed. Victor Ballot School, Dahomey, and Ecole William Ponty, Senegal; Deputy, Niger Territory, French Nat. Assembly 1946-51, 1956-58; Vice-Pres. Nat. Assembly 1957; Prime Minister, Republic of Niger 1958-60; Pres. of Republic of Niger 1960-74, Council of Ministers 1960-74, also Minister of Foreign Affairs until 1974; ousted by coup April 1974, imprisoned 1974-; mem. Rassemblement Démocratique Africain (RDA); Chair. OCAM 1967-70; fmr. Pres. Conseil d'Entente.

DIOUF, Abdou, L. EN D., L. ES SC.; Senegalese politician; b. 7 Sept. 1935, Louga; ed. Lycée Faidherbe, St. Louis, Dakar and Paris Univs.; joined the Sengalese Progressive Union (U.P.S.) 1961; now mem. Political Bureau and Deputy Admin. Sec. U.P.S.; Dir. of Technical Co-operation and Minister of Planning 1960; Asst. Sec.-Gen. to Govt. until 1961, Sec.-Gen. 1964-65; Gov. Sine-Saloum Region 1961-62; Dir. de Cabinet of Pres. of Repub. 1963-65; fmr. Chair. Council of Ministers Org. of Senegal River Basin States; Minister of Planning and Industry 1968-70; Prime Minister 1970–; mem. Nat. Assembly 1973-; mem. Political Bureau and Asst. Sec. Parti Socialiste Sénégalais Feb. 1978-. *Address:* Office of the Prime Minister, Dakar, Senegal.

DIPLOCK, Baron (Life Peer), cr. 1968, of Wansford; (**William John**) **Kenneth Diplock,** P.C.; British judge; b. 8 Dec. 1907, Croydon; s. of W. J. H. Diplock; m. Margaret S. Atcheson 1938; no c.; ed. Whitgift School, Univ. Coll., Oxford and Middle Temple, London; called to the Bar 1932; King's Counsel 1948; Recorder of Oxford 1950-56; Judge of the High Court 1956-61; Pres. Restrictive Practices Court 1960-61; Lord Justice of Appeal 1961-68; Lord of Appeal in Ordinary 1968; Chair. Security Comm. 1971-, Inst. of Advanced Legal Studies 1973-; Pres. Inst. of Arbitrators 1977; Hon. Fellow American Bar Foundation 1969; Hon. LL.D. (Alberta) 1972, Hon. D.C.L. (Oxford) 1977. *Address:* 1 Crown Office Row, Temple, London, E.C.4 (Office); Wansford-in-England, Peterborough, England (Home). *Telephone:* 01-219 3110 (Office).

DIRAC, Paul Adrien Maurice, O.M., F.R.S., B.SC., PH.D.; British physicist; b. 8 Aug. 1902; ed. Bristol, Cambridge Univ.; Fellow St. John's Coll., Cambridge; Lucasian Prof. of Mathematics, Cambridge Univ. 1932-68, now Prof. Emer.; Prof. of Physics Fla. State Univ. 1971-; Nobel Prize for Physics 1933; awarded Royal Medal of Royal Soc. for devt. of new quantum mechanics 1939; Copley Medal of Royal Soc.; Dr. h.c. (Moscow). *Publication:* Principles of Quantum Mechanics 1930. *Address:* Department of Physics, Florida State University, Tallahasse, Fla 32306, U.S.A.

DISALLE, Michael Vincent, LL.B.; American government official; b. 6 Jan. 1908, New York; m. Myrtle E. England 1929; one s. four d.; ed. Georgetown Univ.; Asst. District Counsel Home Owners' Loan Corpn. 1933-35; mem. Ohio Legislature 1937-38; Asst. City Law Dir., Toledo 1939-41; Councilman, Toledo 1942-50, Vice-Mayor 1944-48, Mayor 1948-50; Founder and first Chair. Labour-Management-Citizens Cttee., Toledo; Dir. Office of Price Stabilisation, Washington, D.C. 1950-52; nominated Democratic cand. for U.S. Senate from Ohio 1952; Dir. Econ. Stabilisation Agency 1952-53; Gov. of Ohio 1958-62; law practice, Columbus, Ohio 1963-66; Partner Chapman, Gadsby, Hannah & Duff 1971-. *Leisure Interests:* golf, reading. *Address:* Watergate East, Apt 1014 N., (Office). 2510 Virginia Avenue NW, Washington D.C. 20037, U.S.A. (Home).

DITCHBURN, Robert William, M.A., PH.D., F.R.S., M.R.I.A.; British physicist; b. 14 Jan. 1903, Lancashire; s. of William and Martha Ditchburn; m. Doreen May Barrett 1929; one s. three d.; ed. Liverpool and Cambridge Univs.; Fellow of Trinity Coll., Dublin 1928-46; Prof. of Natural Philosophy (Physics), Dublin Univ. 1929-46; Principal Experimental Officer, Admiralty 1942-45; Prof. of Physics, Reading Univ. 1946-68, Emer. 1968-, Tech. Consultant; Senior Scholar, Hooper Prize, Yeats Prize (Trinity Coll., Cambridge); Isaac Newton Student, Cambridge Univ. *Publications:* Light 1952 (revised 1963, 1976); Eye-Movements and Visual Perception 1973. *Leisure interests:* music, the social implications of science. *Address:* 9 Summerfield Rise, Goring, Reading, RG8 0DS, England. *Telephone:* Goring 3470.

DIWAKAR, Ranganath, LL.B., M.A.; Indian author and politician; b. 30 Sept. 1894, Dharwar; s. of Ramachandra and Sita Diwakar; m. Radha Diwakar 1918; one s.; ed. Bombay Univ.; Teacher and Prof. of English 1916-20; founded Karmaveer (Kannada weekly paper) 1921, editor until 1930, now sole trustee of People's Education Trust, Hubli, controlling Karmaveer and Samyukta Karnatak (Kannada daily paper) and Kasturi (monthly Kannada digest); Pres. Karnatak Provincial Congress Cttee. 1930-34; mem. Constituent Assembly 1946; Min. of Information and Broadcasting 1948-52; Gov. of Bihar 1952-57; Chair. Gandhi Smarak Nidhi 1957–, and Peace Foundation, New Delhi 1959-; imprisoned for sedition (during freedom movement) 1921-23, 1924-26, 1930-32, 1940, 1944; mem. Rajya Sabha 1962-69. *Publications:* In English: Glimpses of Gandhiji 1949, Satyagraha in Action 1949, Upanishads in Story and Dialogue 1950, Satyagraha — Pathway to Peace 50, Mahayogi (biography of Aurobindo Ghose), Saga of Satyagraha 1970, and 20 books in Kannada and Hindi on religion, philosophy, and other subjects. *Leisure interests:* reading, writing, swimming, walking, gardening. *Address:* c/o Sri Arvind Krupa, 233 Sadashiv Nagar, Bangalore 560006, Karnataka, India.

DIXEY, Paul Arthur Groser; British underwriter; b. 13 April 1915, Herts.; s. of the late Neville Dixey and Marguerite Groser; m. Mary Margaret Baring Garrod 1939; one d. four s.; ed. Stowe School and Trinity Coll., Cambridge Univ.; served Royal Artillery,1939-45; mem. London Insurance Market Del. to Indonesia 1958; mem. Dunmow R.D.C. 1958-64, Cttee. of Lloyd's Underwriters' Assn. 1962-74, Cttee. of Salvage Assn. 1962-74 (Chair. 1964-65), Cttee. of Lloyd's 1964-70, 1972-75, Gen. Cttee. Lloyd's Register of Shipping 1964-; Deputy Chair. of Lloyd's 1967, 1969, 1972, Chair. 1973, 1974; mem. Council, Morley Coll. 1952-62; Chair. Govs., Vinehall School 1966-73. *Leisure interests:* riding, fly-fishing. *Address:* Little Easton Spring, Dunmow, Essex, England. *Telephone:* Great Dunmow 2840.

DIXON, Frank James: American medical scientist; b. 9 March 1920, St. Paul, Minnesota; s. of Frank James and Rose Augusta (Kuhfield) Dixon; m. Marion Edwards 1946; two s. one d.; ed. Univ. of Minnesota, U.S. Naval Hospital, Great Lakes, Illinois; Research Asst., Dept. of Pathology, Harvard Medical School 1946-48; Instructor, Dept. of Pathology, Washington Univ. Medical School 1948-50; Asst. Prof. Dept. of Pathology 1950-51; Prof. and Chair. Dept. of Pathology, Univ. of Pittsburgh School of Medicine 1951-61, Chair. Biomedical Research Depts. 1970-74; Chair. Dept. of Experimental Pathology, Scripps Clinic and Research Foundation 1961-74, Dir. 1974-; Prof. in Residence, Dept. of Pathology, Univ. of Calif. at San Diego 1968-; mem. Nat. Acad. of Sciences, Assn. American Physicians, American Assn. for Advancement of Science and numerous other professional orgs.; Harvey Society Lecturer 1962; mem. numerous editorial boards and advisory cttees.; Theobald Smith Award in Medical Sciences from AAAS 1952, Parke-Davis Award from the American Soc. for Experimental Pathology 1957, Award for Distinguished Achievement from Modern Medicine

1961, Martin E. Rehfuss Award in Internal Medicine 1966, Von Pirquet Medal from Annual Forum on Allergy 1967, Bunim Gold Medal from the American Rheumatism Assn. 1968, Mayo Soley Award from the Western Soc. for Clinical Research 1969, Gairdner Foundation Award 1969, Dickson Prize in Medicine, Univ. of Pittsburgh 1975, Albert Lasker Basic Medical Research Award 1975, Pahlavi Lecturer, Ministry of Science and Higher Educ., Iran 1976, Homer Smith Award in Renal Physiology, New York Heart Assn. 1976. *Publications:* Co-editor Advances in Immunology, Tumors of the Male Genital System, Atlas of Tumor Pathology (Section VIII—Fascicle 32, Armed Forces Institute of Pathology) 1952; and over 320 papers. *Address:* Scripps Clinic and Research Foundation, 10666 N. Torrey Pines Road, La Jolla, California 92037 (Office); 2355 Avenida de la Playa La Jolla, Calif, 92037, U.S.A. (Home). *Telephone:* (714) 455-9100, Ext. 1133 (Office).

DIXON, Thomas F., B.S.ENG., B.S. AND M.S. CHEM.ENG.; American executive and aerospace engineer; b. 15 March 1916; ed. Vanderbilt and Michigan Univs., and California Inst. of Technology; Research Engineer, N. American Aviation 1946-54, Dir. Propulsion Center, Rocketdyne Div. N. American Aviation 1954-55, Chief Engineer 1955-60, Vice-Pres. Research and Engineering 1960-63, Vice-Pres. 1963-68; Deputy Assoc. Administrator Nat. Aeronautics and Space Admin. 1961-63; Chair. of the Board, Airtronics Inc. 1967-69, 1973–; Pres. 1969-73; Exec. Vice-Pres. Teledyne McCormick Selph 1975-76, Pres. 1976-; Fellow, American Rocket Soc., American Inst. Aeronautics and Astronautics; Robert M. Goddard Memorial Award 1957; shared Louis W. Hill Space Transportation Award 1961. *Address:* Teledyne McCormick Selph, 3601 Union Road, Hollister, Calif. 9502, U.S.A. (Office). *Telephone:* 408-637-3731.

DIZ, Adolfo César, C.P.A., D.ECON., M.A., D.PHIL.; Argentine economist; b. 12 May 1931, Buenos Aires; s. of Agustín Diz and Elisa Aristizábal; m. Martha Solari 1959; five s.; ed. Univ. de Buenos Aires and Univ. of Chicago; Instructor of Statistics, Univ. de Buenos Aires 1951-55, 1958-59; Prof. of Statistics, Univ. Nacional de Tucumán 1959-60, Dir. Inst. of Econ. Research 1959-65, Prof. of Statistics and Econometrics 1960-61, 1964, Prof. of Monetary Theory 1962, 1965-66; Exec. Dir. Int. Monetary Fund (IMF) 1966-68; Envoy extraordinary and Minister plenipotentiary, Argentine Financial Rep. in Europe 1969-73; Dir. Center for Latin American Monetary Studies 1973-76; Pres. Banco Central de la República Argentina 1976-; mem. of Argentine socs. and of Directive Cttee., Argentine Branch, Inst. of Applied Econ. Science, Paris, American Econ. Assn. and Econometric Soc. *Publications:* Money and Prices in Argentina 1935-62 in varieties of Monetary Experience, Money Supply Models (in Spanish), and numerous economic articles. *Address:* Banco Central de la República Argentina, Reconquista 266, Buenos Aires, Argentina.

DJERASSI, Carl, A.B., PH.D.; American chemist; b. 29 Oct. 1923, Vienna; s. of Dr. Samuel Djerassi and Dr. Alice Friedmann; m. Norma Lundholm (divorced 1976); one s. one d.; ed. Kenyon Coll. and Univ. of Wisconsin; Research Chemist, Ciba Pharmaceutical Co., Summit, N.J. 1942-43, 1945-49; Assoc. Dir. of Research, Syntex, S.A., Mexico City 1949-51, Research Vice-Pres. 1957-60, Pres. Syntex Research 1968-72; Assoc. Prof. of Chemistry, Wayne State Univ., Detroit 1952-54, Prof. 1954-59, Stanford Univ. 1959-; Pres. and Chair. of the Board Zoecon Corp. 1968-; Dir. Cetus Corpn. 1972-; British Chemical Soc. Centenary Lecturer 1964; Royal Swedish Acad. of Engineering Sciences thirteenth Chemical Lecturer 1969; Swedish Pharmaceutical Soc. Scheele Lecturer 1972; mem. Editorial Board Journal of the American Chemical Society 1968-76, Journal of Organic Chemistry 1955-58, Tetrahedron 1958-, Steroids 1963-, Proceedings of Nat. Acad. of Sciences 1964-70; mem. Nat. Acad. of Sciences Board on Science and Technology for Int. Devt. 1967-76, Chair. 1972-76; mem. American Pugwash Cttee. 1967-; mem. Nat. Acad. of Sciences, Brazilian Acad. of Sciences, American Acad. of Arts and Sciences; Foreign mem. German Acad. of Natural Scientists (Leopoldina), Royal Swedish Acad. of Sciences 1973; Hon. Fellow British Chemical Soc. 1968, American Acad. of Pharmaceutical Science; Hon. D.Sc., Univ. Nacional de México, Kenyon Coll., Ohio, Fed. Univ. of Rio de Janeiro, Worcester Polytechnic Inst., Wayne State Univ., Columbia Univ., Univ. of Uppsala, Univ. of Geneva, Coe College, Iowa; Award in Pure Chemistry 1958, Baekeland Medal 1959, Fritsche Medal 1960, Creative Invention Award 1973, American Chemical Soc.; Intra-Science Research Award 1969, Freedman Foundation Patent Award 1971, Chemical Pioneer Award 1973, Perkin Medal 1975, American Inst. of Chemists; Nat. Medal of Science 1973, Wolf Prize in Chemistry 1978. *Publications:* (author or co-author) over 900 articles and Optical Rotatory Dispersion 1960, Steroid Reactions 1963, Interpretation of Mass Spectra of Organic Compounds 1964, Structure Elucidation of Natural Products by Mass Spectrometry (2 vols.) 1964, Mass Spectrometry of Organic Compounds 1967. *Leisure interests:* skiing, modern art, opera. *Address:* Department of Chemistry, Stanford University, Calif. 94305, U.S.A.

DJILAS, Milovan; Yugoslav writer and politician; b. 1911; ed. Belgrade Univ.; mem. Communist Party 1932, imprisoned 1932-35; mem. Cen. Cttee. Communist Party 1938, Politburo 1940; successively Minister, Head of Parliament, Vice-Pres. of Yugoslavia until 1954; expelled from Communist Party 1954; imprisoned 1956-61, May 1962-Dec. 1966; 1969 Freedom Award (U.S.) 1968. *Publications:* Essays 1941-46 1947, Struggle of the Communist Party of Yugoslavia 1948, On National History [redacted] Educational Subject 1949, Lenin and the Relations Between Socialist States 1950, On New Roads to Socialism 1950, Reflections on Various Questions 1951, On the Aggressive Pressure of the Soviet Bloc against Yugoslavia 1951, The Legend of Njegoš 1952, The New Class 1957; in English: Land without Justice (autobiography vol. 1) 1958, Montenegro 1964, The Leper 1965, The Unperfect Society: Beyond the New Class 1969, Memoir of [redacted] Revolutionary (autobiography vol. 2) 1973, Parts of [redacted] Lifetime 1975. *Address:* c/o Harcourt Brace Jovanovich Inc., 757 3rd Ave., New York, N.Y. 10017, U.S.A.

DJOJOHADIKUSUMO, Sumitro; Indonesian politician; b. 29 May 1917, Kebumen, Central Java; s. of Margono Djojohadikusumo and Raden Ayu Siti Katumi; m. Dora Sumitro Djojohadikusumo 1947; two s. two d.; ed. Netherlands School of Economics, Rotterdam and the Sorbonne, Paris; Asst. to Prime Minister of Indonesia 1946; Pres. Indonesian Banking Corpn. 1947; Chargé d'affaires, Washington, D.C. 1949-50; Minister of Econ. Affairs 1950-51; Minister of Finance 1952-53, 1955-56; Prof. and Dean, Faculty of Econs., Univ. of Indonesia, Jakarta 1951-57; left the country after the PRRI/Permesta armed rebellion 1958; Minister of Trade 68-73; Minister of State for Research 1973-78. *Publications:* Strategic Variables in Indonesia's Long Term Growth 1977, Sciences, Resources and Development 1977. *Leisure interests:* literature, philosophy, tennis. *Address:* Jalan Kartanegara 4, Jakarta, Indonesia (Home).

DJURANOVIĆ, Veselin; Yugoslav politician; b. 17 May 1925, Martinići, near Danilovgrad, Montenegro; s. of Vjera Djuranović; m. two s.; one d.; joined the partisan movement 1941, League of Yugoslav Communist Youth 1941, League of Communists of Yugoslavia 1944; various posts in party during post-war period; Pres. Cen. Cttee. Youth Org. of Montenegro; Dir. Radio Titograd 1953-54, Editor-in-Chief Pobjeda newspaper 1954-58; Chair. Cen. Board Montenegro Socialist Alliance of the Working People 1962-63; mem. Ideological Comm. of Cen. Cttee. of Montenegro League of Communists, then mem. Cen. Cttee. of Yugoslav League of Communists 1964-; Pres. of Exec. Council (State Premier) of Socialist Repub. of Montenegro 1963-66; Sec. Exec. Cttee. of Cen. Cttee of Montenegro League of Communists 1967-68, Pres. 1968-77; Pres. Fed. Exec. Council (Prime Minister) of Yugoslavia March 1977-. *Address:* Federal Executive Council, Bul. Lenjina 2, 11075 Novi Beograd, Yugoslavia.

DLAMINI, Rt. Hon. Prince Makhosini, LL.D.; Swazi politician; b. 1914, Enkhungwini; s. of Prince Majozi Inkhosikati Lasimelane; m.; ten c.; ed. Franson Christian Memorial School, Swazi National School, Matsapa, and Umphumulo Training Inst., Natal; Headmaster, Bethel Mission School 1939; teacher, Franson Christian High School 1941-42, Matsapa Swazi Nat. High School 1943-46; Principal, Swazi Nat. High School, Lobamba 1946-47; Chair. Hlatikulu Branch, Swaziland Teachers' Assn., Sec.-Gen. Swaziland Teachers' Assn.; mem. Swazi Nat. Council 1947; Rural Devt. Officer 1949-62; Chief of Enkungwini 1950; acted [redacted] Sec. to Swazi Nation several times 1950-; studied in Europe 1959-60; Leader Imbokodvo Nat. Movement 1964-; mem. Swazi Legislative Council 1964-67; mem. self-govt. Cttee. 1965-66; led del. to Independence Conf., London 1968, to Land Alienation Talks 1968; Prime Minister 1967-76; Grand Commdr., Order of the Niger 1970; Nat. Security Merit First Class (S. Korea) 1971; Nat. Order of the Brilliant Star (China) 1971. *Leisure interests:* reading, farming, politics. *Address:* c/o Office of the Prime Minister, Box 395, Mbabane, Swaziland. *Telephone:* 2251.

DLAMINI, Col. Maphevu; Swazi army officer and politician; fmr. Commander of Army; Prime Minister March 1976-. *Address:* c/o Office of the Prime Minister, P.O. Box 395, Mbabane, Swaziland. *Telephone:* 2251.

DO MUOI; Vietnamese politician; b. 1911, North Vietnam; [redacted] Vice-Premier and Minister of Building in Democratic Repub. of Viet-Nam 1974-76; in charge of building Ho Chi Minh mausoleum; a Vice-Premier of Socialist Repub. of Viet-Nam Dec. 1976-, also Minister of Construction 1976-77, of Capital Construction, Industry, Communications, Transport and Postal Services Nov. 1977-;

Chair. Econ. Affairs Board in Office of the Premier Dec. 1976-; alt. mem. Politbureau of Communist Party of Viet-Nam Dec. 1976-. *Address:* Council of Ministers, Hanoi, Viet-Nam.

DOAN, Charles Austin, B.S., M.D., SC.D (HON.), M.A.C.P.; American physician; b. 5 June 1896; ed. Hiram Coll., Johns Hopkins Medical School, Univ. of Cincinnati and Harvard Medical School; Asst. Dept. of Anatomy, Johns Hopkins Medical School 1924; Asst., Dept. of Medicine, Harvard Medical School; Asst. Physician, Boston City Hospital and Asst., Thorndike Memorial Laboratory 1925; Assoc. in Medical Research, Rockefeller Inst. for Medical Research 1925-30; Prof. of Medicine and Dir., Dept. of Medical and Surgical Research, Ohio State Univ. 1930-36; Chair. and Prof. Dept. of Medicine and Dir. of Medical Research 1936-44; Dean, Coll. of Medicine, Dir. Univ. Health Centre, Ohio State Univ. 1944-61, Prof. Emer. 1961-, Dir. Division of Hematology, Dept. of Medicine, Coll. of Medicine; Pres. American Soc. of Hematology 1962-63; Pres. Ohio Public Health Assen. 1938-40; Dir.-at-large, Nat. Tuberculosis Assen., Medical Dir. Columbus Cancer Clinic 1947, mem. Assen. American Physicians, American Soc. for Experimental Pathology, American Assen. for Advancement of Science; Gov. for Ohio of F.A.C.P.; Chair. Board of Govs., Vice-Pres. M.A.C.P. 1957-59; A.M.A. Distinguished Service Citation, Gold Medal Award 1960. *Address:* 3600 Oletangy River Road, Columbus, Ohio (Office); 4935 Oletangy Boulevard, Columbus, Ohio, U.S.A. (Home).

DOAN, Herbert D., B.CH.E.; American chemical executive; b. 5 Sept. 1922, Midland, Mich.; s. of Leland and Ruth Doan; two s. two d.; ed. Cornell Univ.; Man., Chemicals Dept., Dow Chemical Co. 1956-60, Exec. Vice-Pres. Dow Chemical Co. 1960-62, Pres. 1962-71, now Dir.; Partner Doan Assocs.; Chair. Doan Resources Corpn.; Dir. Chemical Bank and Trust Co., Midland, Mich., Dow Corning Corpn., Michigan Bell Telephone Co., Detroit, Mich.; Pres. Mich. Foundation for Advanced Research; Incorporator, Neurosciences Research Foundation, Brookline, Mass.; Trustee, Dow Foundation; mem. American Inst. of Chemical Engineers, Cornell Univ. Engineering Coll. Council, American Chem. Soc., Board of Fellows, Saginaw Valley Coll., Advisory Board, Dept. of Chemical Eng., Univ. of Calif. Berkeley, Nat. Science Board, Nat. Science Foundation, Washington, D.C. *Leisure interests:* skiing, sailing, reading. *Address:* Doan Associates, 110 E. Grove Street, Midland, Michigan 48640 (Office); 3801 Valley Drive, Midland, Mich. 48640, U.S.A. (Home). *Telephone:* (517) 631-2471 (Office).

DOBBS, Mattiwilda; American singer; ed. Spelman Coll., Atlanta, and Columbia Univ.; studied with Lotte Leonard 1946-50; Marian Anderson scholarship, soloist at Mexico Univ. Festival 1947; studied at Mannes Music School and Berkshire Music Center 1948, with Pierre Bernac, Paris 1950-52; 1st Voice Prize, Geneva Int. Competition 1951; concert tour Netherlands, France and Sweden 1952; debut La Scala (Milan) in L'Italiana in Algeri 1953; sang at Glyndebourne 1953, 1954, 1956, 1961, Royal Opera House, Covent Garden (London) 1954, 1955, 1956, 1959, San Francisco Opera 1955, Metropolitan Opera (New York) 1956-; Stockholm Royal Opera 1957-; Hamburg State Opera 1961-63; concert appearances in Europe, U.S.A., Mexico, Israel, Australia, New Zealand and U.S.S.R.; Order of the North Star (Sweden). *Address:* Vastmannagatan 50, Stockholm, Sweden; 1101 South Arlington Ridge Rd., Arlington, Va. 22202, U.S.A. *Telephone:* 34-83-00; (703) 892-5234.

DOBLES SÁNCHEZ, Lic. Luis; Costa Rican diplomatist; b. 1925; m.: five c.; ed. McDonogh School, Baltimore, and Univ. of California, U.S.A.: Sec., Costa Rican Legation, Paris 1948; Chargé d'affaires, Rio de Janeiro 1949-51; Dir. of Protocol, Ministry of Foreign Affairs 1951-53; Amb. to Brazil 1953-55; Man. Dir. Coffee Office, Costa Rica 1958-60; Amb. to Peru 1960-62, to Bolivia 1961-62, to France 1975-79; Vice-Minister, Ministry of Foreign Affairs 1966-68; Perm. Rep. to UN 1968-70; Pres. Corpn. Euro-Costarricense S.A. (COERSA). *Address:* Apartado 1518, San José, Costa Rica.

DOBOZY, Imre; Hungarian writer; b. 30 Oct. 1917, Vál; s. of Dániel Dobozy and Ilona Kukucska; m. Ilona Horvát 1939; one s. one d.; Gen. Sec., Assen. of Hungarian Writers, Pres. 1976-; Kossuth Prize; Labour Order of Merit (Golden Degree); Socialist Hungary Medal 1970; Order of Friendship Among Nations (U.S.S.R.). *Publications:* New Seed in Cumenia (novel), Spring Wind (short story), Storm (play and film), Continuation Tomorrow (play), films: Yesterday, Dawn, The Song of the Swain, Corporal and the Others, Eljött a Tavasz (Spring has Come) 1968. *Leisure interest:* travel. *Address:* Hungarian Writers' Assen., H-1062 Budapest VI, Bajza u. 18, Hungary. *Telephone:* 201-013.

DOBRESCU, Miu; Romanian politician; b. 30 Jan. 1927, Bucharest; ed. Bucharest Univ.; mem. of Romanian Communist Party (RCP) 1945-; Sec. Bucharest Cttee. Union of Communist Youth (UCY) 1953; mem. Cen. Cttee. UCY 1954; party worker Cen. Cttee. RCP 1954-66; alt. mem. Cen. Cttee. RCP 1965-69, mem. 1969-; First Sec. Iaşi Regional Cttee. RCP 1966-68; First Sec. R.C.P. Cttee. and Chair. Exec. Cttee. People's Council, Iaşi County 1968-71; Head of Section Cen. Cttee. 1971-72; First Sec. RCP Cttee. and Chair. Exec. Cttee. People's Council, Suceava County 1972-76; Chair. Council of Socialist Culture and Educ. 1976-; alt. mem. Exec. Political Cttee. 1969-; mem. Grand Nat. Ass. 1969-; mem. Nat. Council Socialist Unity Front 1969-. *Address:* Consiliul Culturii şi Educaţiei Socialiste, Piaţa Scînteii 1, Bucharest, Romania. *Telephone:* 17 60 10.

DOBRYNIN, Anatoly Fedorovich, M.SC.; Soviet diplomatist; b. 16 Nov. 1919, Krasnaya Gorka, Moscow Region; ed. technical coll.; engineer at aircraft plant, Second World War; joined diplomatic service 1946; Counsellor, later Minister-Counsellor, Soviet Embassy, Washington 1952-55; Asst. Deputy Minister of Foreign Affairs 1955-57; Under-Sec.-Gen. for Political and Security Council Affairs UN 1957-59, Head American Dept., U.S.S.R. Ministry of Foreign Affairs 1959-61; Amb. to U.S.A. 1962-; mem. CPSU 1945–, Cand. mem., CPSU Cen. Cttee. 1966-71, mem. 1971-; Order of Lenin, Order of Red Banner and other decorations. *Address:* Embassy of the U.S.S.R., 1125 16th Street, N.W., Washington, D.C. 20036, U.S.A.

DOBRZAŃSKI, Dr. Bohdan; Polish soil scientist; b. 3 March 1909, Strutynka; s. of Zofia and Stanislaw Dobrzański; m. Dr. Alina Chomicka 1948; one s. one d.; ed. Lwów Polytechnic. Docent 1939-50, Assoc. Prof. 1950-56, Prof. 1956-; Corresp. mem. Polish Acad. of Sciences 1960-69, mem. 1969-, Presidium mem. 1966-, Deputy Sec. 1969-71, Sec. Dept. V 1972-78; fmr. Chair. Establishment for Protection of Environment of Industrial Regions; Chair. Inst. of Agrophysics, Polish Acad. of Sciences; Prof. Higher School of Agriculture 1946-69; Dir. Inst. of Soil Science and Rural Chem., Agricultural Acad. Warsaw 1969-; Chair. Scientific Council of Inst. of Soil Cultivation, Fertilizing and Pedology; Editor-in-Chief Polish Journal of Soil Science 1968-; mem. Int. Soc. of Soil Science; Deputy Chair. Polish Soc. of Soil Science; Vice-Chair. FAO Working Party on Soil Classification and Survey; mem. Hungarian Acad. of Sciences; foreign mem. All-Union V. I. Lenin Acad. of Agricultural Sciences, Moscow, Acad. of Sciences G.D.R.; Dr. h.c. (Higher School of Agriculture, Lublin); Knights Cross, Order of Polonia Restituta 1952, Officer's Cross 1954, Commdr.'s Cross 1972; Medal of 30th Anniversary of People's Poland 1974. *Publications:* Gleby i ich wartosc użytkowa (Soils and their Usefulness) 1961, Zarys geografii gleb (Outline of Geography of Soils) 1966, Gleboznawstwo (Soil Science) 1966; many articles, some in English. *Address:* Ul. Marszalkowska 84/92 m. 111, 00-514 Warsaw, Poland. *Telephone:* 28-25-84.

DOBSON, Sir Richard Portway, Kt., M.A.; British business executive; b. 11 Feb. 1914, Bristol; s. of Prof. J. F. Dobson and Dina Portway; m. E. M. Carver (née Herridge) 1946; one d.; ed. Clifton Coll., Bristol and King's Coll., Cambridge; joined British-American Tobacco 1935, appointments in China 1936-40, 1946-50; served R.A.F. 1941-45; Dir. British American Tobacco 1955, Deputy Chair. 1962, Vice-Chair. 1968-70, Chair. 1970-76, Pres. B.A.T. Industries (fmrly. British American Tobacco) April 1976-; Chair. British Leyland Ltd. 1976-77; Dir. Commonwealth Devt. Finance Co. Ltd. 1974, Exxon Corpn. 1975, Lloyds Bank Int. 1976-, etc. *Leisure interests:* golf, fishing. *Address:* 16 Marchmont Road, Richmond, Surrey, England. *Telephone:* 01-940 1504 (Home).

DOBSON, William Arthur Charles Harvey, O.C., D.LITT., F.R.S.C.; Canadian sinologist; b. 8 Aug. 1913, London; two s.; ed. Christ Church, Oxford; service with Argyll and Sutherland Highlanders, rising to rank of Lieut.-Col. 1940-45; lecturer in Chinese, Oxford Univ. 1948-52; Prof. of Chinese, Toronto Univ. 1952-, Head, Dept. of East Asian Studies 1952-64; Order of Cloud and Banner, Fifth Class (China), Canada Council Molson Prize. *Publications:* Civilisations of the Orient 1955, Late Archaic Chinese (grammar) 1959, Early Archaic Chinese 1962, Mencius 1963, Late Han Chinese 1964, The Language of the Book of Songs 1967, A Dictionary of the Chinese Particles 1974. *Address:* 47 Queen's Park Crescent East, University of Toronto, Toronto M5S 2C3, Ont., Canada. *Telephone:* 978-2902.

DOCKING, Robert B., B.S.; American banker and politician; b. 9 Oct. 1925, Kansas City, Mo.; s. of George Docking and Mary Virginia Blackwell; m. Meredith Gear 1950; two s.; ed. Univ. of Kansas and Graduate School of Banking, Univ. of Wisconsin; with Union State Bank, Arkansas City, Kansas 1956-59, Pres. 1959-; Pres. and Dir. City Nat. Bank, Guymon, Okla. 1978-; Mayor of Arkansas City 1963-66; Gov. of Kansas 1967-75; Asst. Treas. and Dir. Kansas Public Service Co.; owns Docking Devt. Co. Oxford,

Kansas (oil explorations); fmr. Pres. American Assn. for the UN; Emissary for President Johnson, S. Viet-Nam, Code Two 1967; mem. American Assn. of Criminology; fmr. Chair. of Interstate Oil Compact Comm. 1969; State Co-Chair. of the Ozarks Regional Comm. 1969; fmr. Chair. American Red Cross; Chair. South and Central American del., Partners for Progress 1970; fmr. Pres. Arkansas City Chamber of Commerce; mem. American and Kan. Bankers' Asscns., Ind. Oil and Gas Assn. and numerous other nat. and regional socs.; Fellow, Harry Truman Library Inst. for Nat. and Int. Affairs; Hon. LL.D. (Benedictine Coll.) 1973; Democrat. *Address:* P.O. Box 928, Arkansas City, Kan. 67005 (Office); Stonebridge, Route 3, Arkansas City, Kan. 67005, U.S.A. (Home). *Telephone:* 316-442-5200 (Office); 316-442-0776 (Home).

DODD, Edwin Dillon; American business executive; b. 26 Jan. 1919, Point Pleasant, W. Va.; s. of David Rollin and Mary G. (Dillon) Dodd; m. Marie Marshall 1942; one d.; ed. Upper Arlington High School, Columbus, Ohio, Ohio State Univ. and Harvard Graduate School of Business Admin.; joined Owens-Illinois Inc. 1946, Dir. of Public Relations 1949, Production Man. Libbey Glass Div. 1954, Factories Man. 1956; joined Forest Products Group 1958, Gen. Man. 1961; Vice-Pres. Owens-Illinois Inc. 1959, Exec. Vice-Pres. 1964, Dir. 1966, Pres. 1968-72, Chief Operating Officer 1968-72, Chief Exec. Officer 1972-, Chair. 1976-; Dir. Ohio Bell Telephone Co., Nat. Petro-Chemicals Corpn., Goodyear Tire and Rubber Co., Toledo Trust Co., U.S.A. Chamber of Commerce, Great Atlantic and Pacific Tea Co.; Distinguished Citizens Award; Legion of Merit; Military Medal (Philippines Govt.). *Leisure interests:* fishing, hunting, golf. *Address:* Owens-Illinois Inc., P.O. Box 1035, Toledo, Ohio 43666, U.S.A. (Home). *Telephone:* 419-242-6543 (Office).

DODDS, Eric Robertson, M.A., F.B.A.; British classical scholar; b. 26 July 1893, Banbridge, N. Ireland; m. Annie Edwards Powell 1923; ed. Campbell Coll., Belfast, and Univ. Coll., Oxford; Lecturer in Classics, Univ. Coll. Reading 1919-24; Prof. of Greek, Birmingham Univ. 1924-36; Regius Prof. of Greek, Oxford Univ. 1936-60; Sather Visiting Prof. Univ. of Calif. 1949; Pres. Classical Assn. 1963; corresp. mem. Bavarian Acad.; mem. Inst. Français; Hon. mem. American Acad. of Arts and Sciences; Hon. D.Litt. (Manchester, Belfast, Edinburgh and Birmingham); Hon. Litt.D. (Dublin); Hon. Fellow, Univ. Coll., Oxford; Hon Student, Christ Church, Oxford; Commdr. Order of the Phoenix. *Publications:* Select Passages Illustrative of Neoplatonism 1923 and 1924, Thirty-two Poems 1929, Proclus' Elements of Theology 1933, Journal and Letters of Stephen MacKenna 1936, Euripides' Bacchae 1944, The Greeks and the Irrational 1951, Plato's Gorgias 1959, Pagan and Christian in [redacted] age of Anxiety 1965, The Ancient Concept of Progress and other Essays 1973, Missing Persons 1977. *Leisure interest:* psychical research. *Address:* Cromwell's House, Old Marston, Oxford, England. *Telephone:* Oxford 41024.

DODDS, Harold Willis, A.M., PH.D., LL.D., LITT.D.; American educationist; b. 28 June 1889; ed. Princeton and Pennsylvania Univs.; Instructor Purdue Univ. 1914-16; Asst. Prof. Western Reserve Univ. 1919-20; Prof. of Politics, Princeton Univ. 1927-34 and Pres. 1933-57; Electoral Adviser to Nicaraguan Govt. 1922-24; Technical Adviser to Pres. Tacna-Africa Plebiscitary Comm. 1925-26; Chief Adviser to Pres. Nat. Board of Elections of Nicaragua 1928, Consultant in Election Law and Procedure, Cuban Govt. 1935; Chair. American Del., Anglo-American Conf. on Refugee Problem, Bermuda 1943; Chair. President's Comm. on Integration of Govt. Medical Services 1945; mem. President's Advisory Comm. on Universal Training 1947; Chair. Task Force on Personnel, 2nd Hoover Comm. 1954-55; Trustee, Union Theological Seminary, Danforth Foundation; mem. American Philosophical Soc. *Publications:* Out of this Nettle . . . Danger 1943, The Academic President—Educator or Caretaker? 1962. *Address:* 87 College Road West, Princeton, N.J., U.S.A.

DODGE, Cleveland E., A.B., LL.D., PH.D.; American company director and executive; b. 5 Feb. 1888; ed. Princeton, New York and Columbia Univs.; Phelps Dodge Corpn. 1910-, Vice-Pres. 1924-61, now Hon. Dir.; Dir. Atlantic Mutual Insurance Co.; Officer First World War 1917-19; Pres. YMCA, New York City 1925-35, Mining and Metallurgical Soc. of America 1937, and Woodrow Wilson Foundation 1950; Alumni Trustee, Princeton Univ. 1941-45; Dir. Emer. Int. House, New York City, Int. Cttee. YMCA; Board of Trustees, Teachers' Coll., Columbia Univ.; Dir. Near East Foundation, Council of Churches, City of New York; Hon. Trustee, American Museum of Natural History, Grant Foundation; Grand Commdr. Order of George I of Greece; Order of Homayoun (Iran). *Address:* Dodgewood Road, Riverdale, New York City, N.Y. 10471; (Office); 641 Lexington Avenue, New York, N.Y. 10022, U.S.A. (Home).

DODGE, John Vilas; American editor; b. 25 Sept. 1909, Chicago; s. of George Dodge and Helen Porter; m. Jean Plate 1935; two s. two d.; ed. Northwestern Univ., Illinois and Univ. de Bordeaux; freelance writer 1931-32; Editor Northwestern University Alumni News, and Official Publications of Northwestern Univ. 1932-35, Exec. Sec. Northwestern Univ. Alumni Assn. 1937-38; Asst. Editor Encyclopaedia Britannica, and Assoc. Editor Britannica Book of the Year 1938-43, Assoc. Editor Ten Eventful Years (4 vol. History 1937-46) 1947; Asst. Editor Encyclopaedia Britannica 1946-50, Man. Editor 1950-60, Exec. Editor 1960-64, Senior Vice-Pres. Editorial 1964-65, Senior Editorial Consultant 1965-70, 1972-; Editor Britannica World Language Dictionary 1954; Editorial Adviser Encyclopaedia Universalis (Paris) 1968-. *Address:* 425 N. Michigan Avenue, Chicago, Ill. 60611 (Office); 1499 Shermer Road, Northbrook, Ill. 60062, U.S.A. (Home). *Telephone:* 312-321-7183 (Office); 312-272-0254 (Home).

DOELL, Richard Rayman, PH.D.; American geophysicist; b. 28 June 1923, Oakland, Calif.; s. of Raymond A. and Mabel L. Doell; m. Ruth G. Jones 1950 (divorced 1976); two d.; ed. Univ. of California (Berkeley); Asst. Prof. of Geophysics, M.I.T. 1956-59; Geophysicist U.S. Geological Survey 1959-78; retd. 1978; mem. Nat. Acad. of Sciences. *Publications:* Paleomagnetism 1961, Geomagnetic reversals 1963, History of the geomagnetic field 1969. *Leisure interests:* sailing, hiking. *Address:* P.O. Box 1463, El Granada, Calif. 94018, U.S.A. *Telephone:* 415-843-1648.

DOERING, William von Eggers, PH.D.; American professor of chemistry; b. 22 June 1917, Fort Worth, Tex.; s. of Carl Rupp Doering and Antoinette Mathilde von Eggers; m. 1st Ruth Haines 1947 (divorced 1954); two s. one d.; m. 2nd Sarah Cowles 1969; ed. Shady Hill School, Cambridge, Massachusetts, Belmont Hill School, Belmont, Massachusetts and Harvard Univ.; with Office of Scientific Research and Devt. 1941, Nat. Defense Research Cttee. 1942, Polaroid Corpn. 1943 (all in Cambridge, Mass.); Instructor, Columbia Univ. 1943-45, Asst. Prof. 1945-48, Assoc. Prof. 1948-52; Prof. Yale Univ. 1952-56, Whitehead Prof. of Chem. 1956-67; Prof. Harvard Univ. 1967-68, Mallinckrodt Prof. of Chem. 1968-; Consultant Upjohn Co. 1956-; Chair. Council for a Livable World, Washington, D.C. 1964-73, Pres. 1973-78; mem. Nat. Acad. of Sciences, Amer. Acad. of Arts and Sciences; John Scott Award 1945, Amer. Chem. Soc. Award in Pure Chem. 1953, A. W. von Hoffman Medal (Gesellschaft Deutscher Chemiker) 1962, and other awards from Amer. Chem. Soc.; Hon. D.Sc. (Texas Christian Univ.). *Publications:* Quinine 1944, Tropolone 1950, Tropylium Ion 1954, Carbenes 1954, Bullvalene 1962, Thermal Rearrangements 1966. *Leisure interests:* music, theatre, tennis, hiking. *Address:* Harvard University Dept. of Chemistry, 12 Oxford Street, Cambridge, Mass. 02138 (Office); 53 Francis Avenue, Cambridge, Mass. 02138, U.S.A. (Home).

DOGRAMACI, Ihsan, M.D., LL.D., F.R.C.P., F.A.A.P.; Turkish pediatrician and educator; b. 3 April 1915, Erbil; s. of Ali Dogramaci and Ismet Kirdar; m. Ayser Hikmet Suleyman 1942; two s. one d.; ed. Istanbul and Washington Univs.; Asst. Prof. of Pediatrics, Ankara Univ. 1947-49, Assoc. Prof. 1949-54, Prof. and Head of Dept. 1954-63; Dir. Research Inst. of Child Health, Ankara 1958-; Prof. of Pediatrics and Head of Dept., Hacettepe Faculty of Medicine 1963-, Dean of Faculty June 1963-Nov. 1963; Pres. Ankara Univ. 1963-65; Pres. Hacettepe Children's Medical Centre, Ankara 1965–; Rector, Hacettepe Univ. 1967-75; Pres. UNICEF Exec. Board 1967-70; Pres. Int. Pediatric Assn. 1968-77, Dir.-Gen. 1977-; Pres. Union of Middle-Eastern and Mediterranean Pediatric Socs. 1971-73; mem. of Standing Conf. of Rectors and Vice-Chancellors of the European Univs. 1969-; Hon. Fellow, American Acad. Pediatrics 1959; Hon. mem. American Pediatric Soc., Deutsche Gesellschaft für Kinderheikunde 1973, Soc. de Pédiatrie de Paris 1958, British Ped. Assn. 1964, Finnish Pediatric Assn. 1971, etc.; Corresp. mem. Acad. Nat. de Médecine, France 1973; Hon. LL.D. (Nebraska) 1965; Dr. h.c. (Nice) 1973; hon. degrees also from Univs. of Glasgow, Anatolia and Baghdad; Fellow, Royal Coll. of Physicians (London) 1971; Grand Officier, Duarte, Sanchez y Mella 1976, Officier, Légion d'honneur 1978. *Publications:* Annenin Kitabi—Mother's Handbook on Child Care 1952-74, Premature Baby Care 1954, articles and monographs on child health, pediatrics and medical education; Editor of Turkish Journal of Pediatrics, consulting editor of Clinical Pediatrics (Philadelphia). *Address:* Hacettepe University, Ankara, Turkey.

DOHNÁNYI, Christoph Von (*see* von Dohnányi, Christoph).

DOHNANYI, Klaus von, DR.JUR.; German politician; b. 23 June 1928, Hamburg; s. of Johann-Georg and Christine (née Bonhoeffer) von Dohnanyi; m. Christa Gross 1966; two s. one d.; ed. Munich, Columbia, Stanford and Yale Univs.; fmrly. with Ford Motor Co.,

Detroit, Mich. and Cologne; Dir. Planning Div. Ford-Werke, Cologne 1956-60; Dir. Inst. für Marktforschung und Unternehmensberatung, Munich 1960-67; Sec. of State, Fed. Ministry of Economy 1968-69; mem. Bundestag 1969-; Parl. Sec. of State, Ministry of Educ. and Science 1969-72; Minister of Educ. and Science 1972-74; Minister of State, Fed. Foreign Office 1976-; Social Democrat. *Address:* 5300 Bonn-Ippendorf, Am Lappenweiher 20, Federal Republic of Germany. *Telephone:* 636434.

DOI, Masaharu; Japanese chemical executive; b. 1 May 1894, Amagasaki Hyogo; s. of Yataro and Taki Doi; m. Tae Shimizu 1922; three s. one d.; ed. Tokyo Imperial Univ.; Sumitomo Chemical Co. 1920-, Gen. Man. 1942, Dir. 1944-, Pres. 1947-63, Chair. 1963-75, Counsellor 1975-; Chair. Japan-Italy Econ. Cttee., Japan-Korea Econ. Assn.; Advisor Japan Productivity Centre, Osaka Chamber of Commerce and Ind., The Fed. of Econ. Orgs.; Consultant Japan Chemical Ind. Assn., Kansai Chemical Ind. Assn.; Counsellor and Standing Dir. Kansai Econ. Fed.; Standing mem. Int. Chamber of Commerce. *Leisure interest:* Kouta (Japanese traditional song). *Address:* 15 5-chome, Kitakama Higashi-ku, Osaka; 2-21 Kumoi-cho, Nishinomiya, Hyogo Prefecture, Japan.

DOI, Shozaburo; Japanese banking executive; b. 23 Dec. 1907, Yonago City; s. of Chikao Doi and Toshie Miyoshi; m. Mikiko Mikamo 1929; two s. two d.; ed. Aoyama Gakuin Univ.; joined The Mitsui Trust & Co. Ltd. 1929; Dir. The Mitsui Trust & Banking Co. Ltd. 1958, Pres. 1968, Chair. 1971-78; Dir. Mitsui Petroleum Devt. Co. Ltd. 1969, Mitsui Ocean Devt. Co. Ltd. 1970, Mitsui Devt. Co. 1971; Auditor Developer Sanshin Co. Ltd. 1971, Mitsui Alumina Co. Ltd.; Insp. Japan Medical Foods Assn. 1972. *Address:* c/o The Mitsui Trust and Banking Co. Ltd., 1-1, Nihombashi Muromachi 2-chome, Chuo-ku, Tokyo 103, Japan.

DOISY, Edward Adelbert, A.B., M.S., PH.D.; American university professor; b. 13 Nov. 1893; ed. Univ. of Illinois and Harvard Univ.; Asst. in Biochemistry, Harvard Medical School 1915-17; Army service 1917-19; Instructor, Assoc. and Assoc. Prof. in Biochemistry, Washington Univ. School of Medicine 1919-23; Prof. of Biochemistry, and Dir. of Dept., St. Louis Univ. School of Medicine 1923-65; Distinguished Service Prof. Emeritus of Biochemistry and Dir. Emer. of Edward A. Doisy Dept. of Biochemistry 1965-; mem. Pontifical Acad. of Science 1948, American Acad. of Arts and Sciences, Nat. Acad. Sciences, American Philosophical Soc.; awarded gold medal, St. Louis Medical Soc. 1935; Willard Gibbs Medal 1941; Squibb award 1944; shared the Nobel Prize in Physiology and Medicine for 1943 with Dr. Henrick Dam; Barren Medal 1973; Hon. Sc.D. Washington, Yale, Chicago, Central Coll., Illinois Univ., Gustavus Adolphus Coll.; Dr. h.c. Paris; Hon. LL.D. St. Louis Univ. *Address:* 1402 South Grand Boulevard, St. Louis, Missouri 63104, U.S.A. (Office). *Telephone:* 664-9800.

DOKE, Clement Martyn, M.A., D.LITT.; South African philologist; b. 16 May 1893, Bristol, England; s. of Rev. J. J. Doke and Agnes Biggs; m. Hilda Lehman 1919 (deceased 1948); one s. four d.; ed. Transvaal Univ. Coll., Pretoria, and London Univ.; Missionary S. Africa Baptist Missionary Soc. 1914-21; Lecturer in Bantu Languages, Univ. of Witwatersrand, Johannesburg 1923; Prof. and Head of Dept. of Bantu Studies 1931-53; Editor South African Baptist 1922-47; Joint Editor Bantu Studies 1931-41 and African Studies 1942-53; has conducted research trips to Lamba, Ila, Shona, the Bushman tribes, etc.; Pres. Baptist Union of S. Africa 1949-50; Acting Principal, Baptist Theological Coll. of Southern Africa 1951 and 1955; Hon. D.Litt. (Rhodes), Hon.LL.D. (Witwatersrand). *Publications:* Ukulayana Kwawukumo (translation of New Testament in Lamba) 1921, Lamba Folklore 1927, Text Book of Zulu Grammar 1927, Unification of the Shona Dialects 1931, The Lambas of Northern Rhodesia 1931, Comparative Study in Shona Phonetics 1931, Bantu Linguistic Terminology, Lamba-English Dictionary 1937, Text Book of Lamba Grammar 1938, (with the late Dr. B. W. Vilakazi) Zulu-English Dictionary 1948, The Southern Bantu Languages 1954, Textbook of Southern Sotho Grammar 1957 (with the late Dr. S. M. Mofokeng), English-Zulu Dictionary 1958 (with the late Dr. D. McK. Malcolm and J. M. A. Sikakana), Amasiwi Awalesa (trans. of Bible in Lamba) 1959, Contributions to the History of Bantu Linguistics, 1961 (with D. T. Cole), English-Lamba Vocabulary 1963, Trekking in South Africa 1913-1919, 1975. *Leisure interest:* biblical studies. *Address:* Flat 19, Marina Hills, Kearn Road, Baysville, East London 5201, South Africa. *Telephone:* East London 20433.

DOKO, Toshio; Japanese business executive; b. 15 Sept. 1896; ed. Tokyo Inst. of Industrial Science, Univ. of Tokyo; with K.K. Tokyo Ishikawajima Shipyard 1920; with Ishikawajima Shibaura Turbine Co. Ltd. 1936, Pres. 1946; elected Pres. Ishikawajima Heavy Industries Co. Ltd. 1950, Chair. of Board 1964-74 (now Ishikawajima-Harima Heavy Industries); Dir. Tokyo Shibaura Electric 1957, Pres. 1965-; Ishikawajima do Brasil Estaleiros S.A. 1959-; Vice-Pres. Fed. of Econ. Orgs. (Keidanren), Pres. 1974-; Medal of Honour with Blue and Navy Ribbons, Order of Southern Cross (Brazil), First Class Order of the Sacred Treasure. *Address:* Tokyo Shibaura Electric Co. Ltd., 1-6 1-chome, Chiyodaku, Tokyo, Japan.

DOLANC, Stane; Yugoslav politician; b. 1925; held various positions in the Army, Ljubljana Univ. and the Slovene League of Communists; mem. Exec. Bureau of the Presidium, League of Communists of Yugoslavia 1969, Exec. Sec. Jan. 1972-78, Sec. 1978-79. *Address:* Savez Komunista Jugoslavije, Bulevar Lenjina 6, Novi Beograd, Yugoslavia.

DOLCI, Danilo; Italian writer and social worker; b. 28 June 1924, Sesana (Trieste); ed. Faculty of Architecture, Milan Polytechnic; collaborated with Saltini, founder of Christian community Nomadelfia; social work in Sicily 1952-; opened centres for study on problem of providing organic development for a traditionally underemployed population 1958; Premio della Bontà, Milan 1954, Lenin Peace Prize 1958, Laurea philosophiae h.c. (Berne) 1968, Sonning Prize 1971, Premio Internazionale di Poesia Taormina 1975. *Publications:* Banditi a Partinico 1955 (English trans. 1960), To Feed the Hungary 1959, Spreco 1960 (English trans. 1963), Conversazioni 1962, Verso un mondo nuovo 1964, (English trans. 1965), Chi gioca solo 1966 (English trans. The Man Who Plays Alone 1969), Inventare il futuro 1968, Il limone lunare 1970, Non sentite l'odore del fumo? 1971, Chissà se i pesci piangono 1972, Poema umano 1973, Esperienze e riflessioni 1974, Il Dio delle Zecche 1976. *Address:* Centro Studi e Iniziative, Largo Scalia 5, Partinico (Palermo), Sicily, Italy. *Telephone:* 781905.

DOLE, Robert; American politician: b. 22 July 1923, Russell, Kan.; s. of Mr. and Mrs. Doran R. Dole; m. Elizabeth Hanford 1975; one d.; ed. Russell public schools, Univ. of Kansas and Washbourn Municipal Univ.; mem. Kansas Legislature 1951-53; Russell County Attorney 1953-61; mem. House of Reps. 1960-68; U.S. Senator from Kansas 1968-; Chair. Republican Nat. Cttee. 1971-72; Vice-Presidential Cand. 1976; Dir. Mainstream. Inc.; Adviser, U.S. Del. to FAO Conf., Rome 1965, 1974, 1977; mem. Congressional del. to India 1966, Middle East 1967; mem. U.S. Helsinki Comm., del. to Belgrade Conf. 1977; Trustee, William Allen White Foundation, Univ. of Kan.; mem. Nat. Advisory Cttee., The John Wesley Colls.; mem. American Bar Assn.; mem. Nat. Advisory Cttee. on Scouting for the Handicapped, Kan. Assn. for Retarded Children, Advisory Board of United Cerebral Palsy, Kan.; Hon. mem. Advisory Board of Kidney Patients Inc.; Republican. *Address:* New Senate Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* 202-224 6521.

DOLGIKH, Vladimir Ivanovich; Soviet politican; b. 5 Dec. 1924; ed. Irkutsk Mining Institute; mem. CPSU 1942-; Army service 1941-43; Chief engineer at various plants in Krasnoyarsk 1949-58, Chief engineer 1958-62; Dir. of Zavenyagin Metallurgical Combine, Norilsk 1962-69; First Sec. Krasnoyarsk Territory Cttee., CPSU 1969-72; mem. of Cen. Cttee. CPSU 1971-, Sec. 1972-; Deputy to U.S.S.R. Supreme Soviet 1966-; Hero of Socialist Labour and other decorations. *Address:* Central Committee of the CPSU, Moscow, U.S.S.R.

DOLGOPLOSK, Boris Aleksandrovich; Soviet organic chemist; b. 25 Nov. 1905, Lukoml, Byelorussia; ed. Moscow Univ.; at synthetic rubber plants 1932-46; Instructor, later Prof. Yaroslavl Technical Inst. 1944-46; Assoc. All-Union Research Inst. of Synthetic Rubber 1946-; Assoc., Inst. of High Molecular Compounds, U.S.S.R. Acad. of Sciences; Inst. of Petrochemical Synthesis, U.S.S.R. Acad. of Sciences 1963-; mem. CPSU 1945-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-64, mem. 1964-; State Prize 1941, 1949, Lebeder Prize of U.S.S.R. Acad. of Sciences 1949, 1963; Hero of Socialist Labour, Order of Lenin (twice) and other awards. *Address:* Leninsky Prospekt 29, Moscow V-71, U.S.S.R.

DOLIN, Anton (Patrick Healey-Kay); British ballet dancer and choreographer; b. 27 July 1904; ed. privately, actor and dancer 1915-21; Diaghilev's Russian Ballet Co. 1921-27, 1928-29, created roles in Le Train Bleu, Le Bal, Zepher and Flore, Le Facheaux, Fils Prodigue, Les Biches; created Nemchinova-Dolin Co. of Ballet 1926, 1927; associated with Camargo Soc.; Guest Dancer, Vic-Wells Ballet Co. 1931-35, Markova-Dolin Ballet Co. 1935-37; founded and Artistic Dir. and Premier Dancer London Festival Ballet 1950-59; Rome Opera Dir. of Ballet 1960, now artistic adviser to Les Grands Ballets Canadiens and Vice-Pres. of the Royal Acad. of Dancing; Co-Chair. Ballet Dept., Indiana Univ.; Order of the Sun (Peru), Queen Elizabeth II Coronation Award 1958. *Choreographic works:* David, Job, Nightingale and the Rose, Rhapsody in Blue, Quintet,

Capriccioso, Pas de Quatre. Hymn to the Sun, Espagnol, Giselle, Variations for Four, The Swan of Tuonela. *Publications:* Divertissement 1930, Ballet Go Round 1939, Pas de Deux 1950, Markova 1953, Autobiography 1959, The Sleeping Ballerina 1966. *Address:* 99 Madison Street, New Bedford, Mass. 02740, U.S.A.

DOLL, Sir William Richard Shaboe, Kt., O.B.E., F.R.S., M.D., D.SC., F.R.C.P.; British epidemiologist and medical researcher; b. 28 Oct. 1912, Hampton; s. of William and Kathleen Doll; m. Joan Faulkner (née Blatchford) 1946; one s. one d.; ed. Westminster School and St. Thomas's Hospital Medicial School, Univ. of London; Military Service 1939-45; with Medical Research Council's Statistical Research Unit 1948-69, Dir. 1961-69; mem. Advisory Cttee. on Medical Research WHO 1963, Council of Int. Epidemiological Assn. 1961, Scientific Cttee. Int. Agency for Cancer Research 1965-70, 1975, Hebdomadal Council, Oxford Univ. 1975-; Regius Prof. of Medicine, Oxford 1969-, Warden Green Coll. Sept. 1979-; mem. Royal Comm. on Environmental Pollution 1973-; Foreign Hon. mem. Norwegian Acad. of Sciences 1976, New York Acad. of Arts and Sciences 1977; Hon. Assoc. Physician Central Middx. Hospital 1949-69; David Anderson Berry Prize, Royal Soc. of Edin. (jointly) 1958, Bisset Hawkins Medal, Royal Coll. of Physicians, London 1962, UN Award for Cancer Research 1962, Rock Carling Fellow, Nuffield Provincial Hospitals Trust, London 1967, Gairdner Award 1970, Buchanan Medal, Royal Soc. 1972, Presidential Award, New York Acad. of Sciences 1975, Prix Griffuel, Paris 1975, John Snow Award, Epidemiology Section, American Public Health Assn. 1976, Gold Medal, Royal Inst. of Public Health 1977. *Publications:* Articles of aetiology or lung cancer, leukaemia, epidemiology, effects of ionizing radiations, oral contraceptives, treatment of gastric ulcers, etc. *Leisure interests:* conversation, good food. *Address:* 13 Norham Gardens, Oxford, England. *Telephone:* Oxford 55207.

DÖLLE, Hans, Dr. Jur., Dr. h.c.; German lawyer; b. 25 Aug. 1893, Berlin; s. of Emil and Maria (née Hils) Dölle; m. Else Vorwald 1920; one s.; ed. Berlin, Freiburg and Lausanne Univs.; Prof. of Law, Hamburg; Vice-Pres. Max Planck Soc. 1961-. *Publications:* Kernprobleme des internationalen Rechts der freiwilligen Gerichtsbarkeit 1961, Familienrecht, mit rechtsvergleichenden Hinweisen 2 vols. 1964-65, Der Beitrag der Rechtsvergleichung zum deutschen Recht, Hundert Jahre deutsches Rechtsleben 1860-1960 1962, Internationales Privatrecht 1968. *Address:* Wohnstift Augustinum, München-Nord, Weitlstrasse 66, 8000 München 45, Federal Republic of Germany.

DOLLEZHAL, Nikolay Antonovich; Soviet academician and power engineering scientist; b. 27 Oct. 1899, Omelnik, Ukraine; ed. Moscow Higher Technical School; Lecturer, Inst. of Nat. Economy, and Moscow Higher Technical School 1923-32; Tech. Dir. Leningrad Inst. of Nitrogen Production Equipment 1932-34; Chief Eng. Kiev "Bolshevik" plant 1935-38; Dir. Moscow Research Inst. of Chemical Machinery 1942-53; Dir. Power Eng. Inst. of the U.S.S.R. State Atomic Energy Cttee. 1953-; mem. Bureau of Dept. of Physico—Technical Problems of Energy of U.S.S.R. Acad. of Sciences 1953-62; corresp. mem. U.S.S.R. Acad. of Sciences 1953-62, mem. Dept. Technical Science, U.S.S.R. Acad. of Sciences 1962-; State Prize (four), Lenin Prize 1957, Hero of Socialist Labour 1949, Order of Lenin (four), Hammer and Sickle Gold Medal, etc. *Publications:* The Principles of Designing Steam Operated Power Units 1933, Theory of Compressor Valves 1941, Reactor of Atomic Power Station of U.S.S.R. Academy of Sciences 1956; Uranium-graphite reactors in power stations with steam heating 1957. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

DOLLFUS, Audouin, D. ÈS SC.; French astronomer; b. 12 Nov. 1924, Paris; s. of Charles Dollfus and Suzanne Soubeyran; m. Catherine Browne 1959; four c.; ed. Univ; de Paris. joined Observatoire de Meudon (astrophysical div. of Observatoire de Paris) 1946, now Head of Lab. for Physics of the Solar System; Astronomer, Observatoire de Paris 1965-; mem. Int. Acad. of Astronautics; Prize of Acad. des Sciences. *Publications:* 200 scientific publications on astrophysics. *Leisure interest:* ballooning. *Address:* 77 rue Albert Perdreaux, 92370 Chaville, France. *Telephone:* 926-97-43.

DOLLINGER, Werner, DR. RER. POL.; German politician and industrialist; b. 10 Oct. 1918, Neustadt/Aisch; s. of Richard and Lisette (née Hösch) Dollinger; m. Herta Dehn 1945; one s. two d.; ed. School of Commerce, Nuremberg and Frankfurt Univ.; military service 1943-45; Chair. Neustadt Chamber of Commerce and Industry 1948; founder mem. of CSU and Neustadt Town Councillor 1946-; Dist. Chair. CSU 1951; Dist. Councillor 1952-; mem. Bundestag and CDU/CSU Parl. group 1953-; mem. ECSC Common Assembly 1956-58; Deputy Chair. CSU Land chapter in Bundestag 1957-62; Chair. CDU/CSU working cttee. on budget, finance and taxes 1957-62; Deputy Chair. CSU and Minister of Fed. Property 1962-66; Minister of Posts and Telecommunications 1966-69; Deputy Chair. CSU Land Chapter in Bundestag; Chair. CSU working group foreign affairs and defence, Chair. CDU/CSU working cttee. on Agric., Traffic and Housing. *Leisure interests:* tennis, skiing, swimming, walking. *Address:* Bundeshaus, 53 Bonn (Office); 30 Hampfergrundweg, 853 Neustadt/Aisch, Federal Republic of Germany (Home). *Telephone:* Bonn 163641.

DOLMAN, Claude Ernest, M.B., B.S., D.P.H., PH.D., F.R.C.P. London, F.R.C.P. (Canada), F.R.S.C.; Canadian medical bacteriologist and writer; b. 23 May 1906, Porthleven, Cornwall, England; s. of John E. Dolman and Peternal E. Holloway; m. 1st Ursula Coray 1931, 2nd Clarisse Askanazy 1955; four s. two d.; ed. Wallingford Grammar School, Christ's Hospital, St. Mary's Hospital Medical School and several other London hospitals; Research and Cinical Assoc., Connaught Labs., Univ. of Toronto 1931-35, Research mem. 1935-72, Consultant 1972-73; Dir. Div. of Labs., Provincial Dept. of Health of British Columbia 1935-56, Acting Head Dept. of Nursing and Health, Univ. of British Columbia 1935-43, Prof. and Head 1943-51; Prof. and Head of Dept. of Bacteriology and Preventive Medicine, Univ. of B.C. 1936-51, Dept. of Bacteriology and Immunology 1951-65, Research Prof. Dept. of Microbiology 1965-71; Prof. Emer. of Microbiology 1971-; Hon. Lecturer Dept. of History of Medicine and Science 1964-; Int. Northwest Conf. on Diseases in Nature Communicable to Man 1978; Assoc. Editor Journal of Immunology 1946-57; Pres. Canadian Assn. of Medical Bacteriologists 1964-66; Pres. Royal Soc. of Canada 1969-70; Hon. life mem. Canadian Assn. of Medical Microbiologists 1971-, Canadian Public Health Assn. 1973-, American Soc. for Microbiology 1977-; Cheadle Gold Medal for Medicine (St. Mary's Hospital) 1929, Coronation Medal 1953, Silver Jubilee Medal. *Publications:* Bacterial Food Poisoning 1943, Report on a Survey of Medical Education in Canada and the United States 1946, Science and the Humanities 1950, The Epidemiology of Meat-Borne Diseases 1957, Type E Botulism: its Epidemiology, Prevention and Specific Treatment 1963, Water Resources of Canada (Editor) 1967, Bacteriophages of Clostridium botulinam 1972, Science [redacted] Way of Life 1974; also numerous articles in scientific and medical journals [redacted] staphylococcus toxins, botulinus toxins and botulism, salmonella infections, brucellosis, etc., general public health and the history of microbiology, contributor to the Dictionary of Scientific Biography. *Leisure interests:* antiquarian, gardening. *Address:* 1611 Cedar Crescent, Vancouver B.C. V6J 2P8, Canada. *Telephone:* 604-738-8374 (Home).

DOLMATOVSKY, Yevgeniy Aronovich: Soviet poet; b. 5 May 1915, Moscow; s. of Aron and Adel Dolmatovsky; ed. Moscow Literature Inst. Prof., Moscow Literature Inst.; mem. CP 1941-; State Prizewinner 1949; Orders of Great Patriotic War (1st Class), of Red Star, Badge of Honour, Red Banner of Labour (twice), of October Revolution, and other decorations. *Publications:* Anthologies: Lyrics 1934, Song of the Dnieper 1942, Notes on the Steppes 1945, A Word About the Future 1959, African Poems 1961; Novel in verse Volunteers 1956, 1969, 1976; Selected Works 1959, Years and Songs 1963, Poems about Us 1964, Life of Lyrics 1965, Selected Works 1965, The Last Kiss 1967, The Girl in White 1968, Happiness, Ballads, Songs 1970, Selected Works (2 vols.) 1971, Victory Autographs 1972, Stories of your Songs 1973, A Poet's Notes 1973, It Was ... 1973, I Ask the Floor 1974, Both Song and Poem 1975, Worries of Hope 1977. *Leisure interest:* driving. *Address:* Writers' Union, Ul. Vorovskogo 52, Moscow, U.S.S.R.

DOLMETSCH, Carl Frederick, C.B.E.; British musician; b. 23 Aug. 1911, Fontenay-sous-Bois, France; s. of Arnold Dolmetsch and Mabel Johnston; m. (dissolved); two s. (one deceased) two d.; ed. privately; first public concert performance at age of 7, and first concert tour aged 8; toured Alaska and South America, Australia, Austria, Belgium, Canada, France, Germany, Netherlands, Italy, Japan, New Zealand, Sweden, Switzerland and the U.S.A.; Dir. Soc. of Recorder Players 1937-; Dir. Haslemere Festival of Early Music and Instruments 1940-; mem. Art Workers' Guild, I.S.M.; Hon. Fellow, Trinity Coll. of Music (London), London Coll. of Music; Hon. D.Litt. (Exeter). *Publications:* many editions of recorder music; books on recorder playing 1957, 1962, 1970 and 1977. *Leisure interests:* ornithology, natural history. *Address:* Jesses, Haslemere, Surrey, England. *Telephone:* Haslemere 3818.

DOMENICI, Pete V., B.S., LL.B.; American senator; b. 7 May 1932; s. of Choppo and Alda Domenici; m. Nancy Burk 1958; two s. six d.; ed. Univs of Albuquerque, New Mexico, Denver; elected to Albuquerque City Comm. 1966, Chair. 1967; mem. Nat. League of Cities Revenue and Finance Steering Cttee. and the Resolutions Cttee. of the 1969 Annual Conf. of Mayors; served on Governor's Policy Board for Law Enforcement and on Middle Rio Grande Conf. of Govts.; elected U.S. Senator from New Mexico 1972-.

Leisure interests: hunting, fishing. *Address:* Russell Office Building, Washington, D.C. 20510, U.S.A.

DOMINGO, Placido; Spanish opera singer; b. 21 Jan. 1941, Madrid; s. of Placido and Pepita (Embil) Domingo; m. Marta Ornelas; three s.; ed. Nat. Conservatory of Music, Mexico City; operatic début at Monterrey, Mexico 1961; début at Metropolitan Opera, New York, 1968; British début in Verdi's Requiem at Festival Hall 1969; Covent Garden début in Tosca 1971, returned to sing in Aida, Carmen 1973, La Bohème 1974, Un ballo in maschera 1975; has taken leading roles in about 50 operas; recent engagements include Tosca (conducting), Romeo and Juliet at Metropolitan Opera, New York, N.Y., Aida, Il Trovatore in Hamburg, Don Carlos in Salzburg, I vespri siciliani and La forza del destino in Paris, Turandot in Barcelona, Otello in Paris and Hamburg, Carmen in Edinburgh; film: Madame Butterfly with Von Karajan; recent recordings include: Aida, Un ballo in maschera. *Address:* 30 Herrick Avenue, Teaneck, N.J. 07666, U.S.A.

DOMINICK, Peter Hoyt, A.B., LL.B.; American lawyer and politician; b. 7 July 1915; ed. Yale Univ. and Yale Law School; U.S. Army Air Corps 1942-45; Partner, law firm Holland and Hart, Denver, Colo. 1946-61; mem. Colo. House of Reps. 1957-61; mem. U.S. Congress 1961-63; U.S. Senator from Colorado 1963-74; Amb. to Switzerland 1975; Republican. *Address:* 5050 East Quincy Street, Englewood, Colorado, 80110 U.S.A.

DOMITIEN, Elizabeth; Central African Empire politician; mem. Mouvement d'évolution sociale de l'Afrique noire (MESAN), Vice-Pres. Jan. 1975-; Prime Minister of Central African Repub. Jan. 1975-May 1976. *Address:* c/o Office of the Prime Minister, Bangui, Central African Empire.

DOMOTO, Hisao; Japanese painter; b. 1928; ed. Kyoto Acad. of Fine Arts; First Prize, Acad. of Japan 1951 and 1953; studied in France, Italy and Spain 1952; settled in Paris 1955; abandoned traditional Japanese style and exhibited abstract paintings Salon des Indépendants, Salon de Mai, Paris 1956, 1957; rep. at Rome/New-York Art Foundation first exhbn. Rome, "Otro Arte" Exhbn. Madrid, Facchetti and Stadler Galleries, Paris 1957; First Prize of Musée d'Art Moderne for foreign painters in Paris 1958; one-man exhbn. Martha Jackson Gallery, New York 1959.

DONALDSON, Hon. Sir John Francis, Kt.; British judge; b. 6 Oct. 1920, London; s. of Dr. M. Donaldson and Mrs. E. M. H. Maunsell; m. Dorothy M. Warwick 1945; one s. two d.; ed. Charterhouse School and Trinity Coll., Cambridge; called to the Bar, Middle Temple 1946; Queen's Counsel 1960; Judge of the High Court of Justice, Queen's Bench Div. 1966-; Pres. Nat. Industrial Relations Court (NIRC) 1971-74. *Leisure interest:* sailing. *Address:* Royal Courts of Justice, Strand, London, W.C.2, England.

DONALDSON OF KINGSBRIDGE, Baron (Life Peer), cr. 1967, of Kingsbridge; **John George Stuart Donaldson,** O.B.E.; British politician; b. 9 Oct. 1907; s. of Rev. S. A. Donaldson and Lady Albinia Donaldson (née Hobart-Hampden); m. Frances Annesley Lonsdale 1935; one s. two d.; ed. Eton and Trinity Coll., Cambridge; Pioneer Health Centre, Peckham 1935-38; Road Transport 1938-39; Royal Engineers 1939-45; farming in Glos., later Bucks. 1945-74; Parl. Under-Sec. of State, Northern Ireland Office 1974-76; Minister for the Arts 1976-79; Hon. Sec. Nat. Asscn. Discharged Prisoners Aid. Socs. 1961; Chair. Board of Visitors, H.M. Prison, Grendon 1963-69, Nat. Assen. for Care and Resettlement of Offenders 1966-74, Consumer Council 1968-71, Nat. Cttee. for Family Service Units 1968-74, Cttee. of Inquiry into conditions of service for young servicemen 1969, Econ. Devt. Council for Hotel and Catering Industry 1972-74, British Fed. of Zoos; Pres. Royal Soc. for the Protection of Birds 1975-; Dir. British Sugar Corpn. 1966-74; Dir. Royal Opera House, Covent Garden 1958-74, Sadler's Wells 1963-74. *Leisure interests:* music in general, opera in particular. *Address:* 1 Chalcot Crescent, London, N.W.1, England.

DONAT-CATTIN, Carlo; Italian journalist and politician; b. 26 June 1919, Finale Ligure; trained as journalist; wrote for L'Italia until 1940, then Popolo Nuovo, Turin; joined Christian Democrat Regional Cttee. of Piedmont, Turin Provincial Cttee. and Nat. Council; helped organize Fed. of Independent Labour Unions; fmr. mem. Gen. Council L.C.G.I.L., C.I.S.L., Italian Catholic Action; organized Christian Democrat Party; represented Christian Democrat Party on Nat. Cttee. of Liberation at Ivrea and in Canavese district; elected to Chamber of Deputies 1958, 1963, 1968, 1972, 1976 for Turin constituency; Under-Sec. for State Participations in 1st, 2nd and 3rd Moro govts.; fmr. mem., Parl. Comm. to investigate Mafia; Minister of Labour and Social Security 1969-73; Minister without Portfolio in charge of Southern Devt. 1973-74; Minister of Trade and Industry 1974-78. *Address:* Camera dei Deputati, Rome, Italy.

DONATH, Helen; American opera and concert singer; b. 10 July 1940, Corpus Christi, Tex.; d. of Jimmy Erwin and Helen Hamauei; m. Klaus Donath 1965; one s.; ed. Roy Miller High School, Del Mar Coll., Texas; studied with Paola Névikova, later with husband Klaus Donath (by whom all song-recitals are accompanied); début at Cologne Opera House 1962, at Hanover Opera House 1963-68, Bayerische Staatsoper, Munich 1968-72; guest appearances in Vienna, Milan, San Francisco, Lisbon, etc.; has given concerts in all major European and American cities; major roles include, Pamina in Die Zauberflöte, Zerlina in Don Giovanni, Eva in Die Meistersinger, Sophie in Der Rosenkavalier; many recordings 1962-; Pope Paul Medal, Salzburg 50 Year Anniversary Medal, Bratislava Festival Award, Deutsche Schallplattenpreis and Grosse Lob for her first song recital recording. *Leisure interests:* playing with son, swimming, filming. *Address:* 3002 Wedemark 1, Federal Republic of Germany.

DONATI, Antigono; Italian banker; b. 20 Jan. 1910, Rome; s. of Giacomo and Olga Fano Donati; m. Margherita Flora; one s. one d.; ed. Liceo Tasso, Rome and Univs. of Rome and Padua; mem. First Republican Parl. 1948-53; Pres. Italian Nat. Cttee. for Int. Econ. and Technical Co-operation, Ministry of Foreign Affairs 1960-67; Pres. Cttee. of Technical Co-operation, OECD 1963-66; Pres. Nat. Inst. for Foreign Trade 1965-69; Pres. Banca Nazionale del Lavoro 1967-; Pres. Ente Finanziario Interbancario Efibanca 1968-; Pres. Int. de iure Assen. of Insurance Law, Luxembourg 1960-; mem. Consiglio Nazionale dell'Economia e del Lavoro (CNEL) 1961-; Dr. jur. h.c. (Hamburg) and hon. degrees from Univs. of Calif. (Los Angeles), Mexico, Phoenix, Ariz.; Gold Medal for Culture and Arts 1960, INA Prize, Accad. Nazionale dei Lincei 1962, Cavaliere del Lavoro, Cavaliere di Gran Croce dell'Ordine al merito della Repubblica Italiana; honours from Argentina, Brazil, Chile, Finland, France, Fed. Repub. of Germany, Greece, Luxembourg, Mexico, Peru, Portugal and Spain. *Publications:* Il Contratto di assicurazione in abbonamento 1935, L'assicurazione per conto di chi spetta 1937, L'invalidità delle deliberazioni di assemblea di società anonime 1937, L'assicurazione nel Codice Civile, nel Commentario D'Amelio 1943, Trattato di diritto delle assicurazioni private (3 vols.) 1952-56, Manuale del Diritto delle assicurazioni 1956, Codice delle assicurazioni 1960, L'assicurazione nei Paesi del MEC 1963. *Address:* Via Cassia 1951, Rome, Italy. *Telephone:* 3788193.

DONATONI, Franco; Italian professor of musical composition; b. 9 June 1927, Verona; s. of Silvio Donatoni and Dolores Stefannuci; m. Susan Park 1958; one s. one d.; ed. Bologna and Rome; Prof. of Composition, Bologna 1953-55, Milan 1955-67, Turin 1967-69, Milan 1969-; Docente, Advanced Course in Composition, Accademia Chigiana di Siena 1970; Marzotto Prize 1966, Koussevitsky Prize 1968 and other prizes for composition. *Works include:* Puppenspiel 1951, Sezioni 1960, Per Orchestra 1962, Quartetto IV 1963, Asar 1964, Puppenspiel (2) 1965, Souvenir 1967, Etwa ruhiger im Ausdruck 1967, Doubles II 1969-70, Questo 1970. *Address:* Via Bassini 39, 20133 Milan, Italy. *Telephone:* (02) 293408.

DONEGAN, Patrick Sarsfield; Irish businessman, farmer and politician; b. 29 Oct. 1923, County Louth; s. of Thomas F. and Roseanne Donegan; m. 1955; two s. two d.; ed. St. Vincent's, Castleknock; Fine Gael M.P. for Louth 1954-; fmr. Del. to Inter-Parliamentary Union; mem. Council of Europe; Vice-Pres. Fine Gael Party; Minister of Defence 1973-76, of Lands 1976-77; Underwriter, Lloyd's 1978-. *Leisure interests:* hunting, boating, football, shooting, tennis, badminton. *Address:* "St. Etchen's", Monasterboice, Co. Louth, Ireland. *Telephone:* (041) 8944.

DONEN, Stanley; American film producer and director; b. 13 April 1924; Dir. of films including Fearless Fagan, Give the Girl a Break, Royal Wedding, Love is Better Than Ever, Deep in My Heart, Seven Brides for Seven Brothers, Funny Face, Kiss Them for Me; co-dir. Singin' in the Rain, It's Always Fair Weather, On the Town; producer-dir. Pajama Game, Indiscreet, Damn Yankees, Once More with Feeling, Surprise Package, The Grass is Greener, Charade, Arabesque, Two for the Road, Bedazzled, Staircase, The Little Prince, Lucky Lady. *Address:* c/o Edward Traubner, Suite 504, 1800 Century Park East, Los Angeles, Calif. 90067, U.S.A.

DÖNHOFF, Gräfin (Countess) **Marion,** DR. RER. POL.; German journalist; b. 2 Dec. 1909, Friedrichstein, East Prussia; d. of August Graf Dönhoff and Ria (née von Lepel); unmarried; ed. in Potsdam, Königsberg, Frankfurt/Main and Basel Univ.; engaged in admin. of various agricultural estates in East Prussia 1936-45; joined Die Zeit 1946, Political Editor 1955, Chief Editor of Die Zeit 1968-72,

Publisher 1972-; Hon. Dr. Smith Coll., U.S.A.; Joseph E. Drexel Prize; Theodor Heuss Prize, Peace Prize of German Book Trade 1971. *Publications:* Namen, die keiner mehr nennt 1962, Die Bundesrepublik in der Ära Adenauers 1963, Reise in ein fernes Land (co-author) 1964, Welt in Bewegung 1965, Deutsche Ausse politik von Adenauer bis Brandt 1970, Menschen, die Wissen, worum [redacted] geht 1976, Hart am Wind, The Political Career of Helmut Schmidt 1978 (Editor). *Leisure interest:* art (painting and graphic art). *Address:* Hamburg-Blankenese, Am Pumpenkamp 4, Federal Republic of Germany.

DONINI, Ambrogio, PH.D.; Italian historian, politician and diplomatist; b. 8 Aug. 1903, Lanzo Torinese; s. of the late Pier Luigi and of Giaccone Irene; m. Olga Jahr 1930; one s.; ed. Univ. of Rome and Harvard Univ.; Reader in History of Christianity, Univ. of Rome 1926; obliged to emigrate to U.S.A. in 1928 because of opposition to Fascist régime; research for Th.D. at Harvard Univ. Theological School 1928-30; Lecturer in Italian Literature, Brown Univ., Providence 1929; Asst. Prof. of Italian, Smith Coll., Northampton, Mass. 1930; anti-fascist political activity in Europe 1932-39; Editor of anti-fascist daily La Voce degli Italiani, Paris; in U.S.A. as Editor of Italian anti-fascist weekly L'Unità del Popolo 1939-45; Lecturer of History of Religion, Jefferson School, New York 1943-45; returned to liberated Italy after 17 years' exile 1945; Free Prof. of History of Christianity, Univ. of Rome; Dir. of Gramsci Cultural Institute, Rome 1949; joint editor of Rome review Ricerche Religiose; elected to Rome City Council Nov. 1946; Amb. to Poland 1947-48; mem. World Peace Council 1950; elected to the Senate 1953, 1958; mem. Communist Party of Italy since 1927; elected to Cen. Cttee. 1948, to Central Control Cttee. 1956; Prof. History of Christianity, Univ. of Bari 1960; retd. *Publications:* Ippolito di Roma, Polemiche teologiche e controversie disciplinari nella Chiesa di Roma agli inizi del III secolo 1925, Manuale introduttivo alla Storia del Cristianesimo (joint author) 1926, Per una storia del pensiero di Dante in rapporto al movimento gioachimita (Dante Prize, Harvard Univ.) 1930, Le basi sociali del Cristianesimo primitivo 1946, L'Italia al bivio 1955, I Manoscritti ebraici del Mar Morto e le origini del Cristianesimo 1957, Chiesa e Stato nell'Italia d'oggi 1958, Lineamenti di Storia delle Religioni 1959, Lezioni di Storia del Cristianesimo, Vol. I, Le Origini 1964, Storia del Cristianesimo dalle Origini a Giustiniano 1975, Enciclopedia delle Religioni 1977. *Leisure interests:* chess and classical music. *Address:* Contrada S. Sisinio, 00068 Rignano Flaminio, Rome, Italy. *Telephone:* 0761-50027.

DONLEAVY, James Patrick; American author; b. 23 April 1926, New York City; s. of Patrick and Margaret Donleavy; m. 1st Valerie Heron (divorced 1969); one s. one d.; m. 2nd Mary Wilson Price; one d.; ed. Preparatory School, New York, and Trinity Coll., Dublin; served in the U.S.N. during the Second World War; Brandeis Univ. Creative Arts Award, Evening Standard Drama Award, American Acad. and Nat. Inst. of Arts and Letters Award. *Publications:* The Ginger Man (novel) 1955, (play) 1959, Fairy Tales of New York (play) 1960, A Singular Man (novel) 1963, (play) 1964, Meet My Maker the Mad Molecule (short stories and sketches) 1964, The Saddest Summer of Samuel S (novella) 1966, (play) 1968, The Beastly Beatitudes of Balthazar B (novel) 1968, (play) 1977, The Onion Eaters (novel) 1971, The Plays of J. P. Donleavy (collection) 1972, A Fairy Tale of New York (novel) 1973, The Unexpurgated Code: A Complete Manual of Survival and Manners 1975, The Destinies of Darcy Dancer, Gentleman (novel) 1977, Schultz (novel) 1979. *Address:* Levington Park, Mullingar, Co. Westmeath, Ireland. *Telephone:* 044-8903.

DONNAY, J(oseph) D(ésiré) H(ubert), E.M., PH.D.; Canadian university professor; b. 6 June 1902, Grandville, Belgium; s. of Joseph Donnay and Marie Doyen; m. 1st Marie Hennin 1931, 2nd Gabrielle Hamburger 1949; three s. one d.; ed. Liège and Stanford Univs.; engineer and geologist, Société financière franco-belge de colonisation, French Morocco 1929-30; Research Assoc. and Teaching Fellow, Stanford Univ. 1930-31; Assoc. in Mineralogy and Petrography, Johns Hopkins Univ. 1931-39; Prof. Laval Univ. Quebec 1939-45; Research Chemist, Hercules Powder Co. 1942-45; Visiting Prof. Johns Hopkins Univ. 1945; Prof. Univ. of Liège 1946-47; Prof. of Crystallography and Mineralogy, Johns Hopkins Univ. 1946-71, Emer. Prof. 1971-; Chargé de cours, Univ. de Montréal 1970-72, Guest Prof. 1972-76; Sec.-Treas. American Soc. for X-ray and Electron Diffraction 1944-46; Vice-Pres. Soc. Géologique Belgique 1946-47; Vice-Pres. Mineralogical Soc. of America 1949 and 1952, Pres. 1953; Vice-Pres. Crystallographic Soc. of America 1946 and 1948, Pres. 1949; Corresp. mem. Société Royale des Sciences de Liège; Vice-Pres. Société française de Minéralogie 1949; Vice-Pres. Geological Soc. of America 1954; Hon. Prof. Univ. of Liège 1948-; Pres. American Crystallographic Assn. 1956; Fulbright Lecturer, Sorbonne 1958-59; Vice-Pres. Assn. française de Cristallographie 1959-60, Visiting Prof. Univ. Marburg 1966, 1968; Corresp. mem. Soc. Géologique Belgique 1966, Hon. mem. 1972; Assoc. McGill Univ. 1975, Foreign Assoc. Académie Royale de Belgique 1976; Roebling Medal 1971, Médaille Trasenster 1977. *Publications:* Spherical Trigonometry 1945, Crystal Data 1954, 1963, 1972-73, Space Groups and Lattice Complexes 1973. *Leisure interest:* philology. *Address:* 320 Côte Saint-Antoine, Montreal, Quebec H3Y 2J4, Canada.

DONNELL, James C., II, A.B., LL.D., D.S., L.H.D.; American business executive (retd.); b. 30 June 1910, Findlay, Ohio; s. of Otto Dewey Donnell and Glenn McClelland; m. Dolly Louise De Vine 1932; one d.; ed. Princeton Univ.; Dir. Marathon Oil Co. 1936-75, Vice-Pres. 1937-48, Pres. 1947-72, Chair. 1972-75; Dir. Mountain Fuel Supply Co. 1935-72, Chair. of the Board 1972-74; Dir. Nat. City Bank of Cleveland, First Nat. Bank of Findlay, Armco Steel Corpn., Phelps Dodge Corpn., American Petroleum Inst., Libbey-Owens-Ford Co., New York Life Insurance Co.; mem. Nat. Petroleum Council, World Alliance of YMCA's, Nat. Board YMCA. *Address:* 539 South Main Street, Findlay, Ohio 45840 (Office); 839 South Main Street, Findlay, Ohio 45840, U.S.A. (Home). *Telephone:* 419-422-2121 (Office).

DONNER, Andreas Matthias, D.IUR.; Netherlands jurist; b. 15 Jan. 1918; s. of Jan Donner (*q.v.*) and Golida van den Burg; m. Dina A. Mulder 1946; three s. six d.; ed. Amsterdam Free Univ.; Legal Adviser Assoc. of Christian Schools in the Netherlands 1941-45; Prof. of Constitutional Law, Free Univ. of Amsterdam 1945-58; Pres. Court of Justice of the European Communities 1958-64, Judge 1964-, alt. Pres. of First Chamber; Hon. Dr. Iur. (Louvain), Fellow, Royal Netherlands Acad. of Sciences and Art. *Publications:* Nederlands Bestuursrecht (Netherlands Administrative Law) 1953, Handboek van het Nederlandse Staatsrecht 10th edn. 1977. *Address:* Cour de Justice des Communautés Européennes, Kirchberg (Office); Route de Thionville 235, Hespérange, Luxembourg (Home). *Telephone:* 47621.

DONNER, Frederic G., B.A.; American businessman; b. 1902; ed. Michigan Univ.; joined Gen. Motors Corpn. 1926, Asst. Treas. 1934-37, Gen. Asst. Treas. 1937-41, Vice-Pres. 1941-56, Exec. Vice-Pres. 1956-58, Chair. and Chief Exec. Officer 1958-67, remains mem. Board and mem. Finance Cttee.; Chair. Board of Trustees, Alfred P. Sloan Foundation 1968-. *Address:* 630 Fifth Avenue, New York, N.Y. 10020, U.S.A.

DONNER, Jan, DR. JUR., DR. RER. POL.; Netherlands jurist; b. 1891, Assen; m. Golida van den Burg 1916 (died 1965); six c.; ed. Univs of Utrecht and Leiden; Adviser of the Minister of Justice 1922-26; Minister of Justice 1926-33; [redacted] of Supreme Court 1933-46, Pres. 1946-61; Minister of State 1971. *Address:* Scheveningseweg 86b, The Hague, Netherlands. *Telephone:* 070-551056.

DONNER, Jörn Johan, B.A.; Finnish film director and writer; b. 5 Feb. 1933, Helsinki; s. of Dr. Kaj Donner and Greta von Bonsdorff; m. 1st Inga-Britt Wik 1954 (divorced), two s.; m. 2nd Jeanette Bonnier 1974; ed. Helsinki Univ.; worked [redacted] writer and film dir. in Finland and Sweden, writing own film scripts; contributor and critic to various Scandinavian and int. journals; Dir. Swedish Film Inst., Stockholm 1972-75, Exec. Producer 1975-78, Man. Dir. 1978-; Man. Dir. Jörn Donner Productions; mem. Board Marimekko Textiles and other cos.; Opera Prima Award Venice Film Festival 1963, Vittorio Sica Prize, Sorrento 1978. *Films:* A Sunday in September 1963, To Love 1964, Adventure Starts Here 1965, Rooftree 1967, Black on White 1968, Sixtynine 1969, Portraits of Women 1970, Anna 1970, Images of Finland 1971, Tenderness 1972, Baksmalla 1974, Three Scenes (with Ingmar Bergman), The Bergman File 1975-77, Men Can't Be Raped 1978. *Publications:* novels, short stories and non-fiction including: Report from Berlin 1958, The Personal Vision of Ingmar Bergman 1962. *Leisure interest:* fishing. *Address:* Pohjoisranta 12, 00170 Helsinki 17, Finland; Fredrikshovsgatan 10, S-11522, Stockholm; and The Swedish Film Institute, Filmhuset, Box 27126, S-10252 Stockholm, Sweden. *Telephone:* 652675 661212 (Helsinki); 677333, (Stockholm).

DONOSO, José, A.B.; Chilean writer; b. 5 Oct. 1924; s. of José and Alicia Donoso; m. María P. Serrano 1961; one d.; ed. The Grange School, Santiago, Instituto Pedagógico (Univ. de Chile), and Princeton Univ., U.S.A.; worked as shepherd in Patagonia before going to Univ.; later lived in Buenos Aires; Doherty Foundation Scholarship to Princeton Univ.; Prof. of English Conversation, Univ. Católica de Chile 1952, later Teacher of Techniques of Expression, School of Journalism, Univ. de Chile; journalist on Revista Ercilla, Santiago 1959-64; Visiting Lecturer, Writers' Workshop, English Dept., Univ. of Iowa 1966-67; Premio Municipal de Santiago 1955; Chile-Italia Prize for Journalism 1960; William Faulkner Foundation Prize (for Coronación) 1962, Guggenheim Fellow. *Publications:*

Veraneo y otros Cuentos 1955, Coronación 1958, El Charleston (short stories) 1960, Este Domingo (novel) 1966, El Lugar sin Limites (novel) 1966, El obsceno pájaro de la noche (novel) 1971, Cuentos (short stories) 1971, Historia Personal del "Boom" (essay) 1972. *Address:* Calaceite, Province of Teruel; also c/o Carmen Balcells, Urgel 241, Barcelona 11, Spain. *Telephone:* Calaceite 78.

DONSKOI, Mark Semyonovich; Soviet film producer and scenario writer; b. 6 March 1901, Odessa; m. Irina Sprink 1936; two s.; film producer 1926-; mem. CPSU 1945-: State Prizewinner (for Gorky's Childhood 1941, Rainbow 1946, Village School 1948, Mother's Fidelity 1968); Richard Winnington Award 1955, Honoured Art Worker of Turkmen S.S.R., People's Artist of the U.S.S.R. 1966, Hero of Socialist Labour 1971, Order of Lenin (twice), Hammer and Sickle Gold Medal and other decorations. *Principal productions:* Gorky's Childhood 1938, My Apprenticeship 1939, My Universities 1940 (Trilogy); The Rainbow 1943, Village School 1947, Mother 1955, At A High Price 1958, Foma Gordeev 1960, Good Day Children 1961, Mother's Heart 1965, Mother's Fidelity 1966, The Orlov Couple 1978. *Publication:* How I Became a Director 1946. *Address:* Union of Cinematographists of the U.S.S.R., 14 Vassilievskaya ul., Moscow, U.S.S.R.

DOOB, Joseph Leo, M.A., PH.D.; American professor of mathematics; b. 27 Feb. 1910, Cincinnati, Ohio; s. of Leo Doob and Mollie Doerfler Doob; m. Elsie Haviland Field 1931; two s. one d.; ed. Harvard Univ.; Univ. of Illinois 1935-, Prof. of Maths 1945-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, French Acad. des Sciences. *Publication:* Stochastic Processes. *Leisure interest:* recorder. *Address:* Department of Mathematics, University of Illinois, Urbana, Ill. 61801, U.S.A. *Telephone:* 333-1716.

DOOB, Leonard W., PH.D.; American psychologist; b. 3 March 1909, New York; s. of William and Florence Doob; m. Eveline Bates 1936; three s.; ed. Dartmouth Coll., Duke Univ., Univ. of Frankfurt, and Harvard Univ.; Dept. of Psychology, Yale University 1934-, Prof. of Psychology 1950; Psychologist, War Dept., 1942-43; Policy Co-ordinator, Overseas Branch, Office of War Information 1944-45; Chair. Council of African Studies, Yale Univ. 1961-67, 1972-; Visiting Research Prof. Univ. Coll. of Dar es Salaam, Tanzania 1967-68, Univ. of Ghana 1971; Dir. of Social Sciences, Yale 1963-66; Editor Journal of Social Psychology 1965-; Fellow John Simon Guggenheim Foundation 1960-61. *Publications:* Propaganda 1935, Frustration and Aggression 1939, The Plans of Men 1940, Public Opinion and Propaganda 1948, Social Psychology 1952, Becoming More Civilised 1960, Communication in Africa 1961, Patriotism and Nationalism 1964, Ants will not Eat Your Fingers 1966, A Crocodile has me by the Leg 1967, Resolving Conflict in Africa 1970, Patterning of Time 1972, Pathways to People 1975, Ezra Pound Speaking 1978, Panorama of Evil 1978. *Leisure interests:* music, cycling, gardening. *Address:* Department of Psychology, Box 11A, Yale Station, New Haven, Conn. 06520, U.S.A. *Telephone:* 203-436-8551.

DOOLITTLE, Lieut.-Gen. James H., M.SC., D.SC.; American aviator and business executive; b. 14 Dec. 1896; ed. Univ. of California, and Mass. Inst. of Technology; enlisted in U.S. Army Signal Corps as aviation cadet 1917; commissioned as Second Lieut.; flight and gunnery instructor; served in Army ≡ Second and First Lieut. 1917-30; est. a number of air records, including the following (1) first flight across U.S. in less than 24 hours; (2) won Schneider Cup Race 1925; (3) first man to do outside loop; (4) first man to fly over 300 m.p.h. in a land plane; retd. from Army with a reserve commission to become Man. of Aviation for Shell Oil Co. 1930; awarded Harmon trophy of Ligue Internationale des Aviateurs for pioneering work in blind flying 1931; est. new transcontinental flight record 1931; new world speed record for land planes 1932; recalled to active duty with U.S. Army 1940; as Lieut.-Col. led famous Tokyo raid April 1942; later commanded 12th and 15th Air Forces, and, in Jan. 1944, 8th Air Force, retd. Air Force Feb. 1959; Vice-Pres. of Shell Oil Co. 1946-58, Dir. of Corpn. April 1946-67; Chair. Exec. Cttee., Vice-Chair. Board of Trustees Aerospace Corpn. 1965-70; Chair. Board, Space Technology Laboratories 1959-62, Consultant 1962-66; Dir. TRW Inc. 1962-69; Dir. Mutual of Omaha Insurance Co. 1961-, United Benefit Life Insurance Co. 1964-, Tele-Trip Co., Inc. 1966-; Dir. Companion Life Insurance Co. 1968-, Mutual of Omaha Growth and Income Funds 1968-; adviser to govt. boards; decorations include Congressional Medal of Honor, D.F.C., and D.S.M. with Oak-Leaf Clusters, Air Medal with three Oak-Leaf Clusters, Silver Star, Bronze Star, and many foreign awards, including Hon. K.C.B. (U.K.). *Address:* 5225 Wilshire Boulevard, Los Angeles 90036, Calif. (Office); P.O. Box 6087, Carmel, Calif., U.S.A. (Home). *Telephone:* 213-936-8109.

DORATI, Antal; American conductor and composer; b. 9 April 1906, Budapest, Hungary; ed. Franz Liszt Acad. of Music, Budapest, and Univ. of Vienna; asst. conductor Royal Opera, Budapest 1924-28; First conductor Opera House, Münster 1929-32; Musical Dir. de Ballet Russe de Monte Carlo 1933-39, Ballet Theatre of New York 1939-41, New Opera Co., New York 1942-43, Dallas Symphony Orchestra 1945-49, Minneapolis Symphony Orchestra 1949-60; Principal Conductor B.B.C. Symphony Orchestra 1962-66, Stockholm Philharmonic Orchestra 1966-74; Musical Dir. Washington Nat. Symphony Orchestra 1970-77; Principal Conductor Royal Philharmonic Orchestra 1975-78, Conductor Laureate 1978-; Music Dir. Detroit Symphony Orchestra 1977-; Hon. Pres. Philharmonia Hungarica; mem. Royal Acad. Sweden; guest conductor of several American and European Orchestras and at numerous festivals; has made over 500 symphonic recordings; 20 Grand Prix du Disque and other record awards, Bruckner Medal, Mahler Medal, George Washington Award, etc.; Hon. Dr. Macalester Coll., Min.; Commdr. of Royal Vasa Order, Sweden, Chevalier des arts et lettres, France, Ehrenkreuz litteris et artibus, Austria. *Compositions:* Concerto for cello and orchestra, Concerto for piano and orchestra, The Way (Dramatic Cantata), Missa Brevis (for chorus and percussion), The Two Enchantments of Li-Tai-Pe (Chamber Cantata), Nocturne and Capriccio (for Oboe and String Quartet), Magdalena (Ballet), Symphony, Octet for Strings, Largo Concertato (for string orchestra), Madrigal Suite (chorus and small orchestra), Seven Pictures for Orchestra, Contours (for large orchestra), Nightmusic (flute and chamber orchestra), Chambermusic (song cycle with small orchestra), The Voices (for Bass voice and Orchestra) symbolic song cycle, violin and piano pieces, choral works, ballet arrangements, etc. *Address:* c/o Ibbs & Tillett, 124 Wigmore Street, London, W.1, England; c/o Columbia Artists Management, 165 West 57th Street, New York, N.Y. 10019, U.S.A.

DORAZIO; Italian artist; b. 1927, Rome; ed. Rome, Paris; played major role in the revival of Italian Futurist and Abstractionist tradition, published manifesto Forma I 1947; has exhibited throughout Europe, U.S.A., S. America and Australia; est. Fine Arts Dept. of School of Fine Arts, Univ. of Pa. 1960-61, Prof. 1960-69; included in main avant-garde exhbns. of 1950s and 1960s; one-man exhbns. mainly in Venice Biennale 1960, 1966, Düsseldorf 1961, San Marino Int. 1967, Bennington, U.S.A., Cologne, Berlin 1969, Museum of Modern Art, Belgrade 1970, and at Marlborough Galleries in Rome 1964, 1968, 1972, New York 1965, 1969, London 1966; Venice Biennale Prize 1960, Paris Biennale Prize 1961, Prix Kandinsky 1961, Premio Int. Lissone 1965, Int. Prize, Cracow 1970. *Address:* c/o Marlborough Galleria d'Arte, Rome, Italy.

DORENFELDT, Lauritz Jenssen; Norwegian Prosecutor-General; b. 1909. Assistant Judge 1937; Prosecutor, Oslo 1947; Prosecutor-Gen. 1968-. *Address:* c/o Tinghuset, Grubbegate 1, Oslo, Norway. *Telephone:* 33-22-70.

DORIOT, Georges Frederic, B.S.; American educator and business executive; b. 24 Sept. 1899, Paris, France; s. of Auguste and Berthe Doriot; m. Edna Allen 1930; ed. Lynton Coll., Kent, England, Paris Univ., Harvard Graduate School of Business Admin. Prof. of Industrial Man., Harvard Graduate School of Business Admin. 1929-66, Prof. Emer. 1966-; Brigadier Gen., U.S. Army 1941-47, serving as Dir. of Military Planning (Office of the Quartermaster-Gen.), Deputy Dir. for Research and Devt. (War Dept. Gen. Staff) and Deputy Admin., War Assets Admin. (Office of Asst. Chief of Staff G-4); Dir. American Research and Devt. Corpn. 1946-72, Chair. 1972-; Hon. Pres. European Enterprise Devt. (EED) S.A.; Advisory Dir. Nat. Shawmut Bank of Boston; Dir. The Boston Co.; Digital Equipment Corpn., Sun Life Assurance Co. of Canada (U.S.), Technical Studies, Canadian Enterprise Devt. (CED) and other cos.; Conseiller, Institut Européen d'Administration des Affaires, Paris; Trustee, Vice-Pres. Franklin Foundation; Trustee Inst. for the Future; public mem. Hudson Inst.; Distinguished Service Medal (U.S.) Commdr. Légion d'honneur (France), C.B.E. (U.K.), Grand Officier du Mérite, Recherche et Invention (France). *Leisure interests:* photography, painting. *Address:* 12 Lime Street, Boston, Mass. 02108, U.S.A. *Telephone:* 742-3838.

DORIVAL, Bernard, D. ES. L.; French museum curator and writer; b. 14 Sept. 1914; ed. Lycées Carnot and Condorcet, Paris and Ecole normale supérieure. Prof. Ecole du Louvre 1941-; Curator Musée National de l'Art Moderne, Paris 1941-65, Chief Curator 1965-68; Curator Musée Nat. des Granges de Port-Royal 1955-68; Chargé de recherches at Centre National de la Recherche Scientifique 1968-72; Prof. Univ. of Paris 1972-. *Publications:* La peinture française 1942, Les étapes de la peinture française contemporaine 1943-46, Du côté de Port-Royal 1946, Les peintres du XXe siècle 1955, L'ecole de Paris au Musée National de l'Art Moderne 1961; monographs on Cézanne, Philippe de Champaigne and Rouault. *Address:* 78 rue Notre-Dame-des-Champs, 75006 Paris, France.

DORJ, Gen. Batyn; Mongolian diplomatist and soldier; b. 17 Sept. 1914. Head, Frontier Troops' Directorate 1943; Minister of Defence and Public Security 1956-59; Minister of Public Security 1959-61; Amb. to Democratic People's Repub. of Korea 1961-63, to German Democratic Repub. 1963-66, to Yugoslavia 1964-66; Deputy Minister of Public Security 1968-69; Minister of Defence 1969-78 and C.-in-C. Mongolian People's Army 1969-; Col.-Gen. 1969-71; Army Gen. 1971-; Chair. Cttee. of Veterans of Revolutionary Struggle 1978-; Deputy to People's Great Hural (Assembly); mem. Mongolian People's Revolutionary Party (MPRP) Cen. Cttee. 1966-; Hero of the Mongolian People's Repub., Order of Sühbaatar, Order of Lenin. *Address:* c/o The People's Great Hural, Ulan Bator, Mongolia.

DORMAN, Sir Maurice Henry, G.C.M.G., G.C.V.O., D.L., M.A.; British administrator (retd.); b. 7 Aug. 1912, Stafford; s. of the late John Ehrenfried Dorman and Madeleine Bostock; m. F. Monica Churchward Smith 1937; one s. three d.; ed. Sedbergh School, Magdalene Coll., Cambridge; Administration Officer, Tanganyika Territory 1935, Clerk of Council 1940-45; Asst. to Lieut.-Gov. Malta 1945; Principal Asst. Sec., Palestine 1947; seconded to Colonial Office as Asst. Sec., Social Services Dept. 1948; Dir. Social Welfare and Community Devt., Gold Coast 1950; Chief Sec., Trinidad and Tobago 1952, Acting Gov., Trinidad 1954, 1955; Gov., C.-in-C. and Vice-Admiral of Colony and Protectorate of Sierra Leone 1956-61, Gov.-Gen. Independent State of Sierra Leone 1961-62; Gov. and C.-in-C. State of Malta 1962-64, Gov.-Gen. 1964-71; Deputy Chair. Pearce Comm. on Rhodesia 1972; Dir. MLH Consultants, Ramsbury Building Soc.; Chair. Wiltshire Area Health Authority; Trustee, Imperial War Museum, Lambeth; Pres. Anglo-Sierra Leone Soc.; Chief Commdr., St. John Ambulance; Chair. Board of Govs., Badminton School, Bristol; Deputy-Lieut., Wiltshire; Hon. D.C.L. (Durham), Hon. LL.D. (Royal Univ. of Malta), K.St.J. 1957; Gran Croce al Merito Melitense (Sov. Ordine Militaire di Malta) 1966. *Leisure interests:* house, garden, golf, reading. *Address:* The Old Manor, Overton, Marlborough, Wiltshire; 42 Lennox Gardens, London, S.W.1, England. *Telephone:* Lockeridge 600; 01-584 8698.

DORODNITSYIN, Anatoliy Alekseyevich; Soviet geophysicist; b. 2 Dec. 1910, Bashino, Tula Region; ed. Grozny Petroleum Inst. Instructor, higher educational and research establishments, Moscow, Leningrad 1936-41; Central Aerodynamics Inst. Moscow 1941-55; Mathematics Inst. U.S.S.R. Acad. of Sciences 1945-55; Prof. Moscow Physics-Technical Inst. 1947-; mem. U.S.S.R. Acad. of Sciences 1953-; Dir. Computing Centre, U.S.S.R. Acad. of Sciences 1955-; State Prizes 1946, 1947, 1951; Hero of Socialist Labour 1970-; Order of Lenin (thrice), Hammer and Sickle Gold Medal and other decorations. *Publications:* The Boundary Layer in Compressible Gas 1942, The Effects of the Earth's Surface Topography on Air Currents 1950, Asymptotic Laws of Distribution of Proper Meanings for Some Special Types of Second Order 1952, Solution of Mathematical and Logical Problems with Help of Fast Electronic Computers 1956, Laminar Border Layer in Compressible Gas 1957, Some Cases of Axial Symmetric Supersonic Current of Gas 1957, A Contribution to Solution of Mixed Problems of Transonic Aerodynamics 1959, A Method of Solution of Equation of Laminar and Border Layer 1960. *Address:* Computing Centre, U.S.S.R. Academy of Sciences, 28 Ul. Vavilova, Moscow, U.S.S.R.

DOROLLE, Pierre-Marie, M.D., F.R.C.P.; French international health official (retd.); b. 14 Nov. 1899, Wassy; s. of Maurice and Marie Luce Dorolle; m. Mary A. Andrew 1953; two d.; ed. Univs. of Marseille, Paris and Bordeaux, Naval Medical Coll., and Post-Graduate School of Tropical Medicine, Marseille. Overseas Army Medical Corps, later with Govt. Medical Service, French Indochina, Dir. Health Services, Hanoi, etc. 1925-37; Rapporteur, League of Nations Intergovernmental Conf. of Rural Hygiene, Far East 1937; Chief Medical Expert, Rep. of Sec.-Gen. of League of Nations Technical Co-operation with China 1937-40; successively Dir. Health Services Saigon-Cholon, Dir. Health Services, Annam Protectorate, Dir. Health Services, Office of High Commr. 1940-50; Deputy Dir.-Gen. WHO 1950-73; Officier Légion d'honneur, Croix de guerre avec palme, Médaille d'argent des Epidémies, Médaille d'honneur du Service de Santé, Grand Cross of Merit, Order of Malta, Grand Cross, Order of Merit, Fed. Repub. of Germany, Commdr., Ordre de Léopold II (Belgium); numerous other awards; Hon. Fellow, Royal Soc. of Health; Laureate of French Nat. Acad. of Medicine (Prix de la ville de Paris); Lord Cohen Gold Medal, Royal Soc. of Health; Dr. h.c. (Geneva). *Publications:* articles and books on tropical medicine, preventive and social medicine, public health, int. health. *Leisure interest:* natural sciences. *Address:* Le Chazal, 11 Chemin des Ramiers, 1245 Collonge-Bellerive, Switzerland. *Telephone:* (022) 52-1966 (Home).

DORONINA, Tatyana Vasiliyevna; Soviet actress; b. 12 Sept. 1933; ed. Studio School of Moscow Art Theatre; at Leningrad Lenin Komsomol State Theatre 1956-59; at Leningrad Maxim Gorky State Bolshoi Drama Theatre 1959-66; Moscow Art Theatre 1966-71; Majakovski Theatre 1971-; Honoured Artist of R.S.F.S.R. *Main roles include:* theatre: Zhenka Shulzhenko (Factory Girl by Volodin), Lenochka (In Search of Happiness by Rozov), Sophia (Wit Works Woe by Griboyedov), Nadya Rozoyeva (My Elder Sister by Volodin), Nadezhda Polikarpovna (The Barbarians by Gorky), Lushka (Virgin Soil Upturned by Sholokov), Nastasya Filippovna (The Idiot by Dostoyevsky), Valka (Irkutsk Story by Arbuzov), Oxana (Loss of the Squadron by Korneichuk); film: Nadya (Elder Sister by Volodin), Natasha (Again about love by Radzuiskiy). *Address:* Majakovski Theatre, 3 Proyezd Khudozhestvennogo Teatra, Moscow, U.S.S.R.

DORRANCE, John Thompson, Jr.; American business executive; b. 7 Feb. 1919; m. (deceased); two s. one d.; ed. St. George's School and Princeton Univ. Asst. Treasurer, Campbell Soup Co. 1950-55, Asst. to the Pres. 1955-62, Chair. of Board 1962-; mem. Board of Dirs. Campbell Soup Co. 1947-, Morgan Guaranty Trust Co. 1955-, Pa. Mutual Life Insurance Co., Carte Hawley Halz Inc. *Address:* Campbell Soup Co., Campbell Place, Camden, N.J. 08101, U.S.A.

DORSEY, Bob Rawis; American oil executive; b. 27 Aug. 1912, Rockland, Texas; m. Angelina Johnapelus 1941; two s. one d.; ed. Univ. of Texas; with Gulf Oil Corpn., Port Arthur Refinery 1934-38; Univ. of Texas 1938-40; Port Arthur Refinery, Gulf Oil Corpn. 1940-48; Man. Venezuela Gulf Refining Co., Puerto la Cruz, Venezuela 1948-55; Gen. Office, Gulf Oil Corpn. 1955-58, Admin. Vice-Pres. 1958-61, Senior Vice-Pres. 1961, Exec. Vice-Pres. 1961-65, Pres. 1965-72, Dir. 1964-76, Chair. of the Board and Chief Exec. Officer 1973-76; Charter Trustee, Univ. of Pittsburgh; Oil and Gas Consultant, Austin, Tex. 1976-78; Chair. and Chief Operations Resource Drilling, Inc., Houston, Tex. 1978-; Dir. The Superior Oil Co., Canadian Superior Oil Ltd., Falconbridge Nickel Mines Ltd., mem. Univ. of Tex. Devt. Board; Hon. D.Sc. (Tampa); Distinguished Graduate Award in Engineering, Univ. of Texas 1965, Distinguished Alumnus of Univ. of Texas 1968. *Leisure interests:* hunting, fishing, modern art, horticulture, football, baseball, reading (especially geography). *Address:* Resource Drilling, Inc., P.O. Box 4341, Houston, Tex. 77210, U.S.A.

DORTICÓS TORRADO, Osvaldo; Cuban lawyer and politician; b. 17 April 1919; ed. Univ. de la Habana. Leader of Castro revolutionary movement in Cienfuegos 1957-58; arrested and imprisoned Dec. 1958; escaped and fled to Mexico; returned upon success of revolution; Minister of Revolutionary Laws Jan.-July 1959; Pres. of Cuba 1959-76; Minister of Economy and Chair. Central Board of Planning 1964-76; mem. Council of State, Vice-Pres. Council of Ministers Dec. 1976-; Vice-Pres. Cuban Nat. Bar Assn. *Address:* Consejo del Estado, Havana, Cuba.

DOS SANTOS, Marcelino; Mozambique poet and nationalist leader; b. 1931, Lourenço Marques; ed. Lisbon and Paris. Sec. of External Affairs, Presidential Council of Frente de Libertação de Moçambique (FRELIMO) Feb. 1969-; Vice-Pres. FRELIMO May 1970-; Minister of Devt. and Econ. Planning, FRELIMO Govt. 1975-78, for the Nat. Comm. of the Plan April 1978-; audience with Pope Paul VI, Rome July 1970. *Address:* FRELIMO, Maputo, Mozambique.

DOSTROVSKY, Israel, PH.D.; Israeli scientist; b. 1918; Odessa, U.S.S.R.; m. Daphne Wormald; one s. one d.; ed. Univ. Coll., London; engaged in research work, Univ. Coll., London 1940-43; Lecturer in Chem., Univ. Coll. of N. Wales 1943-48; joined staff of Weizmann Inst. of Science 1948-; Head of Isotope Research Dept., Weizmann Inst. 1948-65; mem. Israel Atomic Energy Comm. and first Dir. Research 1953-57; Chair. Nat. Council of Research and Devt. 1959-61; Senior scientist, Brookhaven Nat. Laboratory, U.S.A. 1961-64; Dir.-Gen. Israel Atomic Energy Comm. 1965-71; Vice-Pres. Weizmann Inst. 1971-73, Acting Pres., Chief Exec. Officer 1973-; Ramsay Medal, U.K. 1944, Weizmann Prize, Israel 1952; Dr. h.c. (Tel-Aviv) 1973. *Address:* Neve Weizmann, Rehovot, Israel.

DOTY, Paul Mead, B.S., M.A., PH.D.; American biochemist and specialist in science policy and arms control; b. 1 June 1920; ed. Pennsylvania State Coll., Columbia and Cambridge Univs. Instructor and Research Assoc. Polytechnic Inst., Brooklyn 1943-45, Asst. Prof. Chemistry 1945-46; Asst. Prof. Chemistry, Univ. de Notre Dame 1946-48; Asst. Prof. Harvard 1948-50, Assoc. Prof. Chemistry 1950-56, Prof. 1956-; Pres. Science Advisory Cttee. 1961-65; Mallinckrodt Prof. of Biochemistry 1968-; Consultant to the Arms Control and Disarmament Agency, Nat. Security Council; Dir. of

Program for Science and Int. Affairs, Harvard Univ. 1973-; Fellow, American Acad. of Arts and Science, Nat. Acad. of Sciences, Philosophical Soc. *Address:* Harvard University, 9 Divinity Avenue, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-1554.

DOUCE, William C., B.SC. (CHEM. ENG.); American business executive; b. 9 Dec. 1919, Kingman, Kan.; s. of William Thew and Grace Clark Douce (née Griswold); m. Willene Magruder; one c.; ed. Univ. of Kansas; Chair. Operating Cttee., Phillips Petroleum Co. 1963, Man. Chemical Dept. 1966, Senior Vice-Pres., Dir. 1969, Exec. Vice-Pres. 1971, Chair. Exec. Cttee. 1971, Pres. and Chief Operating Officer 1974-. *Leisure interests:* hunting, fishing, golf. *Address:* Phillips Building, Bartlesville, Okla. 74004 (Office); 12630 Cherokee Hill Drive, Bartlesville, Okla. 74003, U.S.A. (Home).

DOUGAN, Robert Ormes, M.A., F.L.A.; American (b. British) librarian; b. 21 Aug. 1904; ed. Univ. Coll., London; Librarian, Royal Historical Soc. London 1925-35; Cataloguer and Bibliographical Research Worker, E. P. Goldschmidt & Co. (London antiquarian booksellers) 1926-40; service with R.A.F. 1941-45; Librarian, Sandeman Public Library, Perth 1945-52; Organizer, Scottish Books Exhibitions (Edinburgh and Glasgow), Festival of Britain 1950-51; Deputy Librarian, Trinity Coll. Dublin 1952-58; Lecturer on Book of Kells for Forás Eireann 1956-58; Keeper, Archbishop Marsh's Library, Dublin 1957-58; Librarian, Henry E. Huntington Library, San Marino (Calif.) 1958-72; Fellow, Library Assn. (U.K.); Hon. D.Lit. *Publication:* Scottish Tradition in Photography 1949. *Leisure interests:* early photography, travel. *Address:* 2663 Tallant Road, Apartment N-293, Santa Barbara, Calif. 93105, U.S.A. (Home).

DOUGLAS, David Charles, M.A., F.B.A., D.LITT.; British historian; b. 5 Jan. 1898, London; s. of Dr. John and Margaret (née Peake) Douglas; m. Evelyn Wilson 1932; one d.; ed. Sedbergh and Keble Coll., Oxford; Lecturer in Medieval History, Glasgow Univ. 1924-34; Prof. of History, Univ. Coll. of the South-West 1934-39; mem. Council Royal Historical Soc. 1935-38, Vice-Pres. 1949-54; Prof. of Medieval History, Leeds Univ. 1939-45; Prof. of History, Bristol Univ. 1945-63; Dean Faculty of Arts 1958-60; Ford's Lecturer, Oxford Univ. 1962-63; Trustee London Museum 1945-70; Hon. Fellow Keble Coll., Oxford 1959-. *Publications:* The Norman Conquest 1926, The Social Structure of Medieval East Anglia 1927, The Age of the Normans 1928, Feudal Documents from the Abbey of Bury St. Edmunds 1932, The Development of Medieval Europe 1935, English Scholars (awarded James Tait Black Memorial Prize) 1939, Domesday Monachorum 1945, William the Conqueror 1964, The Norman Achievement 1969, The Norman Fate 1976, Time And the Hour 1977; Gen. Editor English Historical Documents 1953- (in progress). *Address:* 4 Henleaze Gardens, Bristol, England.

DOUGLAS, Donald W., B.SC.; American engineer; b. 6 April 1892; ed. U.S. Naval Acad., and Mass. Inst. of Technology; Chief Engineer Glenn L. Martin Co. 1915-16 and 1917-20; Chief Civilian Engineer U.S. Signal Corps for Aviation 1916-17; Pres. Douglas Co., Santa Monica, Calif. 1920-28; Pres. Douglas Aircraft Co. Inc. 1928-57, Chair. Board, Chief Exec. Officer 1957-67; Hon. Chair. McDonnell Douglas Corpn. 1967-; Commdr. Order of Orange-Nassau 1950, Chevalier, Légion d'honneur 1950. *Address:* 4 Crest Road East, Rolling Hills, Calif. 90274, U.S.A.

DOUGLAS, Donald Wills, Jr.; American businessman; b. 3 July 1917, Washington D.C.; s. of Donald Wills Douglas and Charlotte (Ogg) Douglas; m. 1st Molly McIntosh 1939 (deceased), 2nd Jean Cooper 1947; two d.; ed. Stanford Univ. and Curtiss-Wright Technical Inst.; joined Douglas Aircraft Co. Inc., Santa Monica, Calif. 1939, Chief, Flight Test Group in charge of testing models 1943-, Dir. Contract Admin. 1948, in charge, Research Laboratories, Santa Monica Div. 1949, Vice-Pres. Mil. Sales 1951-57, Pres. 1957-67; Corporate Vice-Pres., McDonnell Douglas Corpn. 1967-71, Senior Corp. Vice-Pres. 1971-72; Pres. and Chief Exec. Officer Douglas Devt. Co. 1972-74; Chair. of Board, Capistrano Nat. Bank 1975-; Chair. of Board, Biphase Engines Inc. 1975-; Chair. of Board of Trustees, Donald Douglas Museum and Library 1974-; Govt. Aerospace Industries Assn.; Air Force Assn.; Trustee Air Force Museum Foundation; Assn. of the U.S. Army; Conquistadores del Cielo; Nat. Defense Transportation Assn.; Nat. Industrial Conf. Board; American Inst. of Aeronautics and Astronautics; Nat. Security Industrial Assn.; Dir. Hilton Corpn. Hotels; Dir. Nat. Advisory Cttee., Youth Opportunity Campaign; Chevalier, Légion d'honneur 1961, Officer of the Order of Merit (Italy) 1962; mem. various clubs and yachting clubs. *Leisure interests:* hunting, fishing, yachting. *Address:* Biphase Engines Inc., 2907 Ocean Park Boulevard, Santa Monica, Calif. 90406 (Office); 707 Brooktree Road, Pacific Palisades, Calif. 90272, U.S.A. (Home). *Telephone:* (213) 450-3892 (Office); (213) 459-2487 (Home).

DOUGLAS, Kirk, A.B.; American actor; b. 9 Dec. 1916; ed. St. Lawrence Univ., and American Acad. of Dramatic Arts; Pres. Bryna Productions 1955-; Dir. Los Angeles Chapter, UN Assn.; Acad. Awards 1948, 1952, 1956; New York Film Critics Award, Hollywood Foreign Press Award, etc.; Hon. Dr. of Fine Arts (St. Lawrence) 1958; appeared on Broadway in Spring Again, Three Sisters, Kiss and Tell, The Wind is Ninety, Alice in Arms, Man Bites Dog; films include The Strange Love of Martha Ivers, Letter to Three Wives, Ace in the Hole, The Bad and the Beautiful, 20,000 Leagues under the Sea, Ulysses, Lust for Life, Gunfight at O.K. Corral, Paths of Glory, The Vikings, Last Train from Gun Hill, The Devil's Disciple, Spartacus, Strangers When We Meet, Seven Days in May, Town without Pity, The List of Adrian Messenger, In Harms Way, Cast a Giant Shadow, The Way West, War Waggon, The Brotherhood, The Arrangement, There Was a Crooked Man, Gunfight 1971, Light at the Edge of the World, Catch Me a Spy, A Man to Respect 1972, Cat and Mouse, Scalawag (dir.) 1973, Once Is Not Enough 1975, Posse (prod., actor) 1975, The Moneychangers (TV) 1976, Holocaust 2000 1977, The Fury 1977. *Address:* Bryna Productions, 141 El Camino Drive, Beverly Hills, Calif. 90212; 805 N. Rexford Drive, Beverly Hills, Calif. 90210, U.S.A. *Telephone:* (213) 274-5294 (Office).

DOUGLAS, William Orville, A.B., LL.B.; retd. American jurist; b. 16 Oct. 1896; ed. Whitman Coll., Columbia Univ., New York; Instructor, Yakima High School, Washington 1920-22, with law firm Cravath, de Gersdorff, Swaine and Wood, New York 1925-27; Lecturer in Law, Columbia Univ. Law School 1924-28; collaborated with U.S. Dept. of Commerce, bankruptcy studies 1929-32; Dir. Bankruptcy Studies, Inst. of Human Relations, Yale Univ. 1929-32; Sec. to Cttee. on Study of Business of Federal Courts (Nat. Comm. on Law Observance and Enforcement) 1930-32; Prof. of Law, Yale Law School 1928-32, Sterling Prof. of Law 1932-39; Dir. Protective Cttee. Study, Securities and Exchange Comm., Washington, D.C. 1934-36, Commr. Securities and Exchange Comm. 1936-39, Chair. 1937-39; mem. Temporary Nat. Econ. Cttee. 1938-39; Assoc. Justice, Supreme Court of U.S. 1939-75. *Publications:* Democracy and Finance 1940, Being an American 1948, Of Men and Mountains 1950, Strange Lands and Friendly People 1951, Beyond the High Himalayas 1952, North from Malaya 1953, An Almanac of Liberty 1954, We the Judges 1956, Russian Journey 1956, The Right of the People 1958, West of the Indus 1958, Exploring the Himalaya (Landmark) 1958, My Wilderness: East to Kathadin 1961, A Living Bill of Rights 1961, America Challenged 1960, Muir of the Mountains 1961, Democracy's Manifesto 1962, Anatomy of Liberty 1963, Mr. Lincoln and the Negroes 1963, Freedom of the Mind 1963, A Wilderness Bill of Rights 1965, The Bible and the Schools 1966, Towards a Global Federalism 1968, Points of Rebellion 1969, Hemispheric Co-op. 1971, The Three Hundred Year War 1972, Go East, Young Man 1974. *Address:* Goose Prairie, Wash. 98929, U.S.A.

DOULATRAM, Jairamdas, B.A., LL.B.; Indian politician; b. 21 July 1891; joined Indian Home Rule Movement 1916; took part in Gandhi's Satyagraha Movement 1919; mem. All-India Congress Cttee. 1927-40; Editor The Bharatvasi 1919-20; participated in Gandhi's Non-Co-operation Movement 1920-21; imprisoned for sedition 1921-23; Editor The Hindustan Times Delhi 1925-26, Gandhi's Young India 1930; mem. Bombay Legislative Council 1927-29; joined Satyagraha Movement for Indian Freedom 1930; imprisoned twice during Civil Disobedience Movement 1930-32, released 1934; Gen. Sec. Indian Nat. Congress 1931, Acting Pres. I. N. Congress 1934, mem. Congress Working Cttee. 1929-40; Chair. Textile Labour Wage Enquiry Cttee. 1938; detained in prison during "Quit India" movement 1942-45; mem. All-India Village Industries Board 1941-46; Indian Constituent Assembly 1946-50; Gov. of Bihar 1947; Minister of Food and Agriculture Govt. of India 1948-50; Gov. of Assam 1950-56; Chief Editor Collected Works of Mahatma Gandhi 1957-59; mem. Governing Body Gandhi Peace Foundation 1958-70; mem. Indian Parl. 1959-. *Address:* Rajya Sabha, Parliament House, New Delhi 1 (Office); 14 Tughlak Road, New Delhi 11, India (Home).

DOUNTAS, Mihalis; Greek diplomatist; b. 1932, Athens; ed. Univ. of Athens; entered Greek Diplomatic Service 1958; Cyprus and Turkish Desk in Ministry of Foreign Affairs 1958-60; took part in bilateral Greek-Turkish negotiations 1959; mem. Del. to UN Gen. Assembly 1960-66; Consul in Toronto, Canada 1960-63; First Sec. Embassy in Nicosia 1963-66; First Sec., Washington, D.C. 1966-69; Counsellor, Nicosia 1969-71; Counsellor, Perm. Greek Del. to NATO 1971-73; Head of Greek Del. to talks on Mutual and Balanced Force Reductions (MBFR), Vienna 1973-74; Diplomatic Adviser to Constantine Karamanlis, Prime Minister Aug. 1974; Amb. to Cyprus Aug. 1974-; Officer, Order of Phoenix, Commdr.,

Order of the Holy Sepulchre; Officer, Order of Merit (Egypt). *Address:* Greek Embassy, 8-10 Byron Avenue, Nicosia, Cyprus; Stratiotikou Syndesmou 12, Athens, Greece (Home). *Telephone:* 3608741.

DOURI, Izzat Ibrahim al-; Iraqi politician; b. 1942, al-Dour Shire; ed. secondary schools; Editor Voice of the Peasant 1968, Head Supreme Cttee., for People's Work 1968-70; Minister of Agrarian Reform 1970-74; Vice-Pres. Supreme Agric. Council 1970-71, Head 1971-; Minister of Agriculture 1973-74; Minister of Interior 1974-; mem. Revolutionary Command Council; Arab Baath Socialist Party. *Address:* Ministry of Interior, Baghdad; Karkh, Baghdad, Iraq (Home).

DOURS, Jean, L. ES D.; French administrator; b. 14 Jan. 1913; ed. Lycée d'Auch, Coll. de Saint-Gaudens and Faculté de Droit, Paris; Adviser, Council of Prefecture of Rouen 1939; Asst. Prefect, Albertville 1943; Asst. Chief, Office of Central Admin. 1945; Asst. Dir. Private Office, Prefect of Seine 1947-57; Technical Adviser, Private Office of René Billères, Minister of Educ.; Adviser, Head Office of Nat. Defence 1958, Dir. 1959; Prefect, Bône 1961-62; Dir. Private Office of Christian Fouchet, High Commr. of France in Algeria April-June 1962, Private Office of Christian Fouchet, Minister of Information 1962, then of Nat. Educ. 1962-66; Dir.-Gen. Sûreté Nationale 1967; Dir.-Gen. of Nat. Police 1969-72; Dir.-Gen. Groupement des Industries Françaises Aéronautiques et Spatiales; Mayor of Auch 1968-; Commdr., Légion d'honneur, Croix de guerre, Commdr. des Palmes Académiques, and other awards. *Address:* 81 boulevard Suchet, 75016 Paris, France

DOVALÍ JAIME, Antonio; Mexican civil engineer and business executive; b. 3 Oct. 1905, Zacatecas, Zac.; m. María Ramos Elorduy; two c.; ed. Nat. Preparatory School and Nat. Engineering School, Univ. de México; Dir., Railway Construction, Ministry of Public Works 1943-48; Under-Sec. for Public Works 1949-52; Dir. Gen. Mexican Petroleum Inst. 1966-70; Dir. Gen. Petróleos Mexicanos Dec. 1970-; Nat. Engineering Award. *Publication:* Situación y Tendencias de la Industria Petrolera Nacional 1971. *Address:* Marina Nacional 329, 12°, México 17, D.F., Mexico. *Telephone:* 531-61-65.

DOVER, Sir Kenneth James, Kt., M.A., D.LITT., F.R.S.E., F.B.A.; British classical scholar; b. 11 March 1920, Croydon; s. of Percy Henry James and Dorothy Valerie Anne (Healey) Dover; m. Audrey Ruth Latimer 1947; one s. one d.; ed. St. Paul's School, Balliol and Merton Colls., Oxford; served Royal Artillery 1940-45; Fellow and Tutor of Balliol Coll., Oxford 1948-55; Prof. of Greek, Univ. of St. Andrews 1955-76; Pres. Corpus Christi Coll. Oxford 1976-; Visiting Lecturer, Harvard Univ. 1960; Visiting Prof. Univ. of Calif., Berkeley 1967; Fellow British Acad. 1966-78, Pres. 1978-; Pres. Hellenic Soc. 1971-74, Classical Assen. 1975. *Publications:* Greek Word Order 1960, Clouds (Aristophanes) 1968, Lysias and the Corpus Lysiacum 1968, (with A. W. Gomme and A. Andrews) Historical Commentary on Thucydides, vol. IV 1970, Theocritus, Select Poems 1971, Aristophanic Comedy 1972, Greek Popular Morality in the Time of Plato and Aristotle 1974, Greek Homosexuality 1978. *Leisure interests:* rough and lonely country and hill walking, historical and comparative linguistics. *Address:* President's Lodgings, Corpus Christi College, Oxford, OX1 4JF, England. *Telephone:* Oxford 49431 (College); 42950 (Lodgings).

DOW, John Christopher Roderick, B.SC. (ECON.); British economist; b. 1916, Harrogate; s. of Warrender Begernie and Amy Dow; m. Clare Keegan 1960; one s. three d.; ed. Bootham School, York, Brighton, Hove and Sussex Grammar School, and Univ. Coll., London; Drummond-Fraser Research Fellow, Dept. of Economics Univ. of Manchester 1938-39; R.A.F. 1940-43; Ministry of Aircraft Production 1943-45; Econ. Section, Cabinet Office, later Treasury successively Econ. Asst., Econ. Adviser, Senior Econ. Adviser 1945-54, 1962-63; Research in Management of British Economy, Cambridge Univ. 1954-55; Nat. Inst. of Econ. and Social Research, London 1955-62, Deputy Dir. 1957-62; Asst. Sec.-Gen. (Econ. and Statistics) OECD 1963-73; Exec. Dir. Bank of England 1973-. *Address:* c/o Bank of England, Threadneedle Street, London, E.C.2., England.

DOWELL, Anthony, C.B.E.; British ballet dancer; b. 16 Feb. 1943, London; s. of Arthur H. Dowell and late Catherine E. Dowell; unmarried; ed. Royal Ballet School; Principal dancer, The Royal Ballet 1966, Senior Principal dancer 1967-; joined American Ballet Theatre 1978; created the following ballets: The Dream 1964, Benvolio in Romeo and Juliet 1965, Shadow Play 1967, Monotones 1969, Triad 1972, Manon 1974, Encounters 1975. *Leisure interests:* painting, paper sculpture, theatrical costume design. *Address:* c/o The Royal Ballet, Covent Garden, London, WC2E 7QA, England. *Telephone:* 01-240 1200.

DOWIYOGO, Bernard; Nauru politician; b. 14 Feb. 1946; ed. local schools and Australian Nat. Univ.; Lawyer; mem. Parl. 1973–; Sec. Nauru Gen. Hosp. and Gen. Man. Nauru Co-operative Soc.; Pres. of Nauru 1976-78. *Address:* c/o Parliament House, Nauru, Central Pacific.

DOWN, Sir Alastair Frederick, Kt., O.B.E., M.C., T.D., C.A.; British oil executive; b. 23 July 1914, Kirkcaldy, Fife, Scotland; s. of Frederick Edward Down and Margaret Isobel Hutchison; m. Bunny Mellon 1947; two s. two d.; ed. Marlborough Coll.; British Petroleum (then Anglo-Iranian Oil Co.) 1938-; Army Service 1940-45; with BP in Iran 1945-47, London 1947-54; Chief Rep. of BP, Canada 1954, later Pres. The British Petroleum Co. of Canada Ltd., BP Canada Ltd., BP Refinery Canada Ltd., BP Exploration Co. of Canada Ltd.; Man. Dir. The British Petroleum Co. Ltd. 1962-75, Deputy Chair. 1969-75; Chair., Burmah Oil Co. Ltd. 1975-; Dir. TRW Inc., Ohio 1977-; mem. Soc. of Chartered Accountants of Scotland. *Leisure interests:* golf, fishing, shooting. *Address:* Burmah Oil Co. Ltd., Burmah House, Pipers Way, Swindon, Wilts., England. *Telephone:* (0793) 30151.

DOWNER, Hon. Sir Alexander Russell, K.B.E., M.A., F.R.S.A., BAR.-AT-LAW; Australian diplomatist; b. 7 April 1910, Adelaide; s. of the late Hon. Sir John Downer, K.C.M.G., K.C., M.P.; m. Mary Isobel, d. of the late Sir James Gosse, 1947; one s. three d.; ed. Geelong Grammar School, Victoria, Brasenose Coll., Oxford, and Inner Temple, London; served with Australian Imperial Forces 1940-45; prisoner of war of Japanese 1942-45; Liberal Mem. Australian House of Representatives 1949-64; mem. Parl. Foreign Affairs Cttee. 1952-58; mem. of Constitutional Review Cttee. 1956-59; Rep. of the Australian Parl. at the Coronation of H.M. Queen Elizabeth II 1953; Minister of State for Immigration 1958-63; High Commr. for Australia in the United Kingdom 1964-72; a Gov. English Speaking Union 1973; Freeman of City of London 1965; Hon. LL.D. (Birmingham) 1973. *Leisure interests:* reading, country life, travel, collecting antiques. *Address:* Martinsell, Williamston, South Australia, Australia.

DOWNES, Ralph (William), C.B.E., K.S.G., M.A., B.MUS., F.R.C.M.; British organist; b. 16 Aug. 1904, Derby; s. of James and Constance Downes; m. Agnes Rix 1929; one s.; ed. Derby Municipal Secondary School, Royal Coll. of Music, Keble Coll., Oxford, and Pius X School of Liturgical Music, New York; Dir. of Music, Univ. Chapel, Princeton Univ. 1928-35; Concert Organist and Organist, the London Oratory 1936-77, Emer. 1977-; Organ Consultant to L.C.C., Royal Festival Hall 1949-53, Govt. of Malta 1960-62, Corpn. of Croydon 1961-64, Cardiff City Council (Nat. Concert Hall of Wales) 1978-; Curator of Organs, Royal Festival Hall 1954-, and Fairfield Hall, Croydon 1964-67; Prof. of Organ, Royal Coll. of Music 1954-75; Jury-mem. Int. Organ Festivals, Haarlem, Munich, St. Albans; designer of organs; organ, choral and piano compositions and articles on organ design and its musical significance; Hon. R.A.M., Hon. F.R.C.O. *Address:* c/o The Oratory, London, S.W.7, England.

DOWNS, Brian Westerdale, M.A., D.LITT.; British university professor; b. 4 July 1893, Hull; s. of James and Ethel Downs (née Wilson); m. Evelyn Faith Marion Wrangham 1946; ed. Abbotsholme School and Christ's Coll., Cambridge; Fellow of Christ's Coll. 1919-50; 1963-; Lecturer in English, Cambridge Univ. 1926-50; British Council Rep. in the Netherlands 1945-46; Master of Christ's Coll. 1950-63 and Prof. of Scandinavian Studies 1950-60; Vice-Chancellor, Cambridge Univ. 1955-57; Commdr. of the Royal Swedish Order of the North Star, Officier Légion d'honneur; Ridder (1st Class) Order of Dannebrog (Denmark). *Publications:* Richardson 1928, Ibsen, the Intellectual Background 1946, Six Plays by Ibsen 1950, Strindberg (in collaboration with Miss Mortensen) 1949, Norwegian Literature 1860-1918 1966. *Address:* Christ's College, Cambridge; 20 Marlborough Court, Grange Road, Cambridge, England (Home). *Telephone:* Cambridge 65605.

DOWSON, Graham Randall; British business executive; b. 13 Jan. 1923, Southend; s. of late Cyril James and Dorothy Celia Dowson (née Foster); m. 1st Fay Valerie Weston 1954 (dissolved 1974), two d.; m. 2nd Denise Joy Sherman 1975; ed. City of London School, Ecole Alpina, Switzerland; war service 1939-45, Pilot, Squadron Leader R.A.F. 1941-46; Sales, U.S. Steel Corpn. (Columbia Steel), Los Angeles 1946-49; Mid-South Network (MBS), Radio U.S.A. 1949-52; Dir. A. C. Nielsen Co., Oxford 1953-58, Southern T.V. Ltd., London 1958-59; Dir. Rank Organisation 1960, Deputy Chief Exec. 1972, Chief Exec. 1974-75; Chair. Erskine House Investments; Dir. Carron Holdings Ltd., Carron Investments Ltd., Cambridge Communication Ltd., Knox-Moore Bagley Ltd., Euryalus Ltd., Nimslo Ltd., PPR Securities Ltd.; Deputy Chair., Nat. Playing Fields Assen. 1971-73; Chair. British Section, Euro-

pean League for Econ. Co-operation 1972. *Leisure interest:* sailing. *Address:* 193 Cromwell Tower, Barbican, London, EC2Y 5DD, England. *Telephone:* 01-588 0396.

DOYLE, Brian André, B.A., LL.B.; British (later Zambian) judge; b. 10 May 1911, Moulmien, Burma; ed. Douai School and Trinity Coll., Dublin; Magistrate, Trinidad and Tobago 1937; Resident Magistrate Uganda 1942; Solicitor-Gen. Fiji 1948, Attorney-Gen. 1949; Attorney-Gen. N. Rhodesia 1956, Attorney-Gen. and Minister of Legal Affairs 1959-65; Justice of Appeal, Zambia 1965; Chief Justice of Zambia 1969-75; Dir. Law Devt. Comm. 1975-; mem. Botswana Court of Appeal 1974-. *Address:* Law Development Commission, P.O. Box 3670, Cha Cha Cha Road, Lusaka, Zambia.

DRABBLE, Bernard J., B.A.; Canadian international financial official; b. 20 May 1925, Portsmouth, England; s. of James C. W. Drabble and Mary Buchanan Simpson; ed. Portsmouth Grammar School, and McGill Univ.; Deputy Chief, Research Dept., Bank of Canada 1964, Assoc. Adviser 1966, Adviser the the Govs., 1971, Deputy Gov. 1974; Exec. Dir. Int. Monetary Fund Nov. 1974-; Allan Oliver Gold Medal, McGill Univ. *Leisure interests:* tennis, swimming, music. *Address:* International Monetary Fund, Washington, D.C. 20431 (Office); 4701 Willard Avenue, Apartment 531, Chevy Chase, Md. 20015, U.S.A. (Office).

DRABBLE, Margaret; British author; b. 5 June 1939, Sheffield; d. of J. F. and Kathleen (Bloor) Drabble; m. Clive Swift 1960 (divorced 1975); two s. one d.; ed. Newnham Coll., Cambridge. *Publications:* A Summer Bird-Cage 1963, The Garrick Year 1964, The Millstone 1965, (John Llewelyn Rhys Memorial Prize 1966), Jerusalem the Golden 1967, The Waterfall 1969, The Needle's Eye 1972, Arnold Bennett: A Biography 1974, The Realms of Gold 1975, The Genius of Thomas Hardy (Editor) 1976, The Ice Age 1977, For Queen and Country: Britain in the Victorian Age 1978. *Address:* c/o A. D. Peters & Co., 10 Buckingham Street, London W.C.2. England. *Telephone:* 01-839 2556.

DRĂGAN, Dr. Joseph Constantin; Romanian industrialist (lives in Italy); b. 1917, Lugoj, Timiş County; ed. Univs. of Bucharest and Rome; Founder-Manager Dacia Co. 1940, Dacia Inc. 1947, Banca Gallia & Co. and Butane-Gas 1948, Dragochimica Co. 1952, Transchimici Shipping Co. 1952; and various companies in Europe and Africa, all controlled by Dragofina Petroleum Investment Trust Reg. Lugano, Switzerland and Vaduz, Liechtenstein; founded Romanian Catholic Monitor and European Bulletin 1949 and Eastern Europe Monitor 1954; Chair. N. Italy Marketing Assen., Spanish Marketing Assen.; mem. Int. Chamber of Commerce; Vice-Chair. for Europe of Int. Marketing Fed. *Publications:* works on management, marketing and history. *Address:* 9 via Larga, Milan, Italy.

DRĂGĂNESCU, Emil; Romanian politician; b. 18 Dec. 1919, Galaţi; m. Ofelia Drăgănescu; one s. one d.; ed. Polytechnic School, Bucharest; Eng. in Bucharest 1942-48; Deputy Man. Romanian Railways, Bucharest 1950-51; Deputy Minister of Building and of Building Materials Industry 1952-55; Vice-Chair., State Control Cttee. 1955-61; Vice-Chair. State Planning Cttee. 1961-65; Minister of Electric Power 1965-68; Vice-Chair. Council of Ministers 1968-78; Minister of Transport and Telecommunications 1972-74; Chair. Nat. Council for Physical Educ. and Sports 1973-74; Chair. State Planning Cttee. 1974-75; Minister of Sports and Tourism 1978-; mem. of RCP 1946-; mem. Central Cttee. of RCP 1965-; alt. mem. Exec. Political Cttee. 1968-69, mem. Exec. Political Cttee. 1969-; mem. Grand Nat. Assembly 1969-; Order of Labour 1969. *Address:* Ministerul Turismului, Bd. Magheru 7, Bucharest, Romania. *Telephone:* 14 51 60.

DRAKE, Sir (Arthur) Eric (Courtney), Kt., C.B.E., M.A., F.C.A.; British business executive; b. 29 Nov. 1910, Rochester, Kent; s. of Dr. A. W. Courtney Drake and Ethel Davidson; m. 1st Rosemary Moore 1935; two d.; m. 2nd Margaret E. Wilson 1950; two s.; ed. Shrewsbury School and Pembroke Coll., Cambridge. British Petroleum Co. Ltd. (fmrly. Anglo-Iranian Oil Co.) 1935-75; Man. Dir. The British Petroleum Co. Ltd. 1958-75, Deputy Chair. 1962-69, Chair. 1969-75; Pres. Chamber of Shipping of U.K. 1964; Dir. P. & O. Co. (Deputy Chair. 1976-), Hudson's Bay Co., Kleinwort Benson and Lonsdale Ltd., B.P. Canada Ltd., Toronto Dominion Bank, Société Française B.P., Eastern Asia Navigation Co. Ltd.; Hon. Petroleum Adviser to British Army 1971-; mem. Cttee. on Invisible Exports (resigned 1975); mem. Gen. Cttee., of Lloyd's Register of Shipping; mem. Gov. Body of Shrewsbury School; Hon. D.Sc. (Cranfield) 1971; Hon. Fellow, Manchester Inst. of Science and Technology 1974; Hon. Fellow, Pembroke Coll., Cambridge 1975; Freeman of City of London 1974; one of H.M. Lieuts. for City of London; Hambro Award for Businessman of the Year 1971, Commdr. Ordre de la Couronne (Belgium), Kt. Grand Cross, Order of Merit (Italy), Officier Légion d'honneur (France), Order of Homayoun II (Iran) 1974, Commdr. Order of Leopold (Belgium) 1975, Cadman Memorial Medal of Inst. of Petroleum 1976; Hon. Elder Brother, Trinity House; Hon. Co. Master Mariners. *Leisure interests:* sailing, shooting. *Address:* The Old Rectory, Cheriton, Alresford, Hants, England.

DRAKE, Frank Donald, B.ENG.PHYS., M.A., PH.D.; American astronomer; b. 28 May 1930, Chicago; s. of Richard C. Drake and Winifred Thompson Drake; m. 1st Elizabeth B. Bell 1953 (divorced 1976); three s., m. 2nd Amahl Shakhashiri 1978; ed. Cornell and Harvard Univs.; U.S. Navy 1952-55; Harvard Radio Astronomy Project 1955-58; Ewen-Knight Corpn. 1957-58; Scientist, Head Scientific Services and Telescope Operations on Nat. Radio Astron. Observatory 1958-63; Chief, Lunar and Planetary Science Section, Jet Propulsion Laboratory 1963-64; Prof. of Astronomy, Cornell Univ. 1964-; Dir. Arecibo Ionospheric Observatory 1966-68; Assoc. Dir. Center for Radiophysics and Space Research, Cornell Univ. 1967-75; Chair. Dept. of Astronomy, Cornell Univ. 1968-71; Dir. Nat. Astronomy and Ionosphere Center 1971-; Goldwin Smith Prof. of Astronomy, Cornell Univ. 1976-; mem. American Assen. for the Advancement of Science, Nat. Acad. of Sciences 1972-, The Explorers Club, Advisory Board The World Book Encyclopedia, Advisory Board The Astrophysical Journal; Councillor American Astronomical Soc.; Fellow, American Acad. of Arts and Sciences. *Publications:* Intelligent Life in Space 1962, and over 100 papers and articles. *Leisure interests:* snorkelling, horticulture, lapidary. *Address:* National Astronomy and Ionosphere Center, Space Sciences Building, Cornell University, Ithaca, N.Y. 14853, U.S.A. *Telephone:* (607) 256-3734.

DRAKE-BROCKMAN, Hon. Sir Thomas Charles, Kt., D.F.C.; Australian politician; b. May 1919, Toodyay, W. Australia; s. of Mr. and Mrs. R. J. Drake-Brockman; m. Edith M. Sykes; one s. four d.; ed. Guildford Grammar School, Perth; served with R.A.A.F. 1941-45; Pres. Wool Exec., Farmers Union of W. Australia; Vice-Pres. Australian Wool and Meat Producers Fed. 1957-58; mem. Senate 1958-, Chair. of Cttees., 1976-; Minister of State for Air 1969-72, for Aboriginal Affairs and Admin. Services Nov.-Dec.1975. *Leisure interest:* golf. *Address:* Parliament House, Canberra, A.C.T. 2600, Australia.

DRAPEAU, Jean, C.C., Q.C., LL.B.; Canadian lawyer and politician; b. 18 Feb. 1916, Montreal; s. of late Joseph-Napoléon Drapeau and Berthe Martineau; m. Marie-Claire Boucher 1945; three s.; ed. Jean-de-Brébeuf and Le Plateau Schools, Montreal, and Univ. of Montreal; admitted to Montreal Bar 1943; practised law in Criminal and Civil Courts, specializing in commercial and corpn. law; Mayor of Montreal 1954-57, 1960-; founded Montreal Civic Party 1960; Senior Canadian rep. at the Int. Bureau of Exhbns., Paris 1967-71; Hon. degrees from Univs. of Moncton 1956, Montreal 1964, McGill 1965, Boswell Inst., Loyola Univ. 1966, Sir George Williams Univ. and Laval Univ. 1967; Hon. mem. American Bar Assen.; Gold Medal, Royal Architectural Inst. of Canada 1967. *Address:* Mayor's Office, City Hall, Suite 104, Montreal, Canada. *Telephone:* 872-3100.

DRAPER, Charles Stark, B.A., B.S., M.S., PH.D.; American aeronautical engineer; b. 2 Oct. 1901, Windsor, Mo.; s. of Charles A. and Martha W. Draper (née Stark); m. Ivy Hurd Willard 1938; three s. one d.; ed. Univ. of Missouri, Stanford Univ., and Mass. Inst. of Technology; Asst. Prof. of Aeronautical Engineering, M.I.T. 1935-38, Assoc. Prof. 1938-39, Prof. 1939-71, Dir. Instrumentation Laboratory 1940-69; Head of Dept. of Aeronautics and Astronautics 1951-66; Vice-Dir. Charles Stark Draper Laboratory 1970-, Pres. 1971-; research and devt. on fire control, flight control and inertial guidance systems for U.S. Air Force and Navy, consulting engineer to many aeronautical companies and instrument manufacturers; mem. several advisory groups connected with military services; Pres. Int. Acad. of Aeronautics; Foreign mem. Acad. des Sciences 1978-; Medal of Merit (presidential citation) 1946, Exceptional Civilian Service Award (Dept. of Air Force) 1951, 1968 and 1969, Navy Distinguished Public Service Award 1956, 1960, Holley Medal (American Soc. of Mech. Engrs.) 1957, American Hon. Fellowship for 1958 of Inst. of Aeronautical Sciences 1959, Potts Medal Award, Franklin Inst. 1960, Nat. Medal of Science 1965; Hon. degree Eidgenössische Technische Hochschule, Switzerland; Guggenheim Award 1967; N.A.S.A. Distinguished Public Service Medal 1967; N.A.S.A. Public Service Award, Apollo Achievement Award 1969; Founder's Medal, Nat. Acad. of Engineering 1969, Distinguished Civilian Service Medal, Dept. of Defence; Hon. degree, Univ. of Portland, Ore., and many other national awards. *Publications:* Instrument Engineering (with W. McKay and S. Lees) Vol. 1 1952, Vol II 1953, Vol. III 1955, and numerous papers in the fields of instrumentation and control. *Leisure interests:* sports cars, gliding. *Address:* Massachusetts Institute of Technology, Charles Stark

Draper Laboratory, 555 Technology Square, Cambridge, Mass. 02139 (Office); 62 Bellevue Street, Newton, Mass., U.S.A. (Home). *Telephone:* (617) 258-2275.

DRAPICH, Wit, M. ECON. SC.; Polish politician; b. 23 Jan. 1924, Swiatniki Górne, Cracow Voivodship; ed. Higher School of Economics, Szczecin; served in Home Army during German occupation; Asst., Higher School of Econs., Szczecin 1951-55; Lecturer, Tech. Univ., Szczecin 1955-56; mem. Polish Socialist Party (PPS) 1945-48, Polish United Workers' Party (PZPR) 1948-; Sec. PZPR Voivodship Cttee., Szczecin 1956-65, First Sec., Voivodship Cttee., Cracow 1975-77; Deputy mem. PZPR Cen. Cttee. 1971-75, mem. 1975-; mem. Chief Council, Union of Fighters for Freedom and Democracy (ZBoWiD); Deputy Chair. All-Poland Cttee. Nat. Unity Front (OK FJN) 1977-; Dir. of Dept., Ministry of Education and Higher Education 1966-69, Deputy Minister 1969-72; Chair. of Presidium, Voivodship Nat. Council, Cracow 1972-73, Voivode, Cracow 1973-75; Deputy to Seym (Parl.) 1957-65, 1976-; Cross of Valour 1945, Gold Cross of Merit 1955, Chevalier's Cross of Order Polonia Restituta 1958, Order of Banner of Labour 2nd Class 1969, 1st Class 1974, Medal of 30th Anniversary of People's Poland 1974, Gold Medal for Merits for Country's Defence 1975, Partisan Cross 1976. *Address:* Ogólnopolsi Komitet Frontu Jedności Narodu, Aleje Ujazdowskie 13, 00-567 Warsaw, Poland.

DREES, Willem (father of Willem Drees, *q.v.*); Netherlands politician; b. 5 July 1886, Amsterdam; s. of Johannes M. and Anna S. Drees; m. Catharina Hent 1910 (died 1974); two s. one d.; ed. Commercial School; joined Twentsche Bank; stenographer to States-Gen. 1907; Chair. Hague Federation of the SDAP (Social Democratic Workers' Party) 1911-31; mem. Hague Municipal Council 1913; mem. Provincial States of Zuid Holland 1919, and in 1933 mem. Second Chamber; mem. SDAP party executive since 1927; filled many other Social posts; during the occupation Chair. of Convention of Political Parties and Central Cttee. Resistance Movement; mem. Gov. Advisory Council; Min. Social Affairs in Schermerhorn's Govt. June 1945-46, and Beel's Govt. June 1946-48; introduced Old Age Pensions Act 1947; Prime Minister 1948-58; awards include Hon. G.C.M.G., Grand Cross of Order of Léopold (Belgium), of Order of Crown of Oak (Luxembourg), Grand Croix Légion d'honneur and Order of Dannebrog, Grand Cross Order of the Netherlands Lion, Hon. Minister of State, etc.; Hon. Citizen, The Hague; Hon. D.Econ., Hon. Dr. Jur. *Address:* Beeklaan 502, The Hague, Netherlands. *Telephone:* 070-450142.

DREES, Willem, DR.ECON.; Netherlands politician; b. 24 Dec. 1922, The Hague; s. of Dr. Willem Drees (*q.v.*) and late Catharina Hent; m. Anna E. Gescher 1947; one s. four d.; ed. grammar school, The Hague and Netherlands School of Econs., Rotterdam; Economist, International Monetary Fund, Washington, D.C. 1947-50; Financial Counsellor, Netherlands Embassy, Jakarta 1950-53; Deputy Dir. Central Planning Bureau, The Hague 1955; Dir. of the State's Budget, Ministry of Finance, 1956-69; Treasurer-Gen. Ministry of Finance 1969-71; Prof. of Public Finance, Netherlands School of Econs. 1963-71; mem. Second Chamber of States-Gen. (Parl.) May-July 1971, 1972-77; Minister of Transport and Public Works 1971-72; mem. Int. Inst. of Public Finance, Board of Gen. Chamber of Audit 1977-; Knight, Order of Netherlands Lion 1961, Commdr. Order of Orange-Nassau 1972. *Publications:* On the Level of Government Expenditure in the Netherlands after the War 1955, Moving the Capital City 1959, Efficiency in Government Spending 1966, Financing Higher Education 1966, Dutch Public Expenditure (co-author) 1968. *Leisure interest:* animal watching. *Address:* General Chamber of Audit, Lange Voorhout 8, The Hague (Office); Wildhoeflaan 35, The Hague, Netherlands (Home). *Telephone:* 070-469290 (Office); 070-680118 (Home).

DRELL, Sidney David; American professor of physics; b. 13 Sept. 1926, Atlantic City, N.J.; s. of Tulla and Rose White Drell; m. Harriet Stainback 1952; one s. two d.; ed. Princeton Univ. and Univ. of Illinois; Research Assoc. Univ. of Illinois 1949-50; Physics Instructor Stanford Univ. 1950-52; Research Assoc. M.I.T. 1952-53, Asst. Prof. 1953-56; Assoc. Prof. Stanford Univ. 1956-60, Prof. of Physics 1960-63; Prof. Stanford Linear Accelerator Center 1963–, Deputy Dir. and Exec. Head of Theoretical Physics 1969-; Visiting Scientist and Guggenheim Fellow, CERN 1961-62; Visiting Prof. and Loeb Lecturer, Harvard Univ. 1962, 1970; Consultant to Office of Science and Technology, Exec. Office of the Pres., President's Science Advisory Cttee. 1966-70, Arms Control and Disarmament Agency, etc.; Chair. High Energy Physics Advisory Panel, DOE 1974-; Visiting Schrodinger Prof., Theoretical Physics, Univ. of Vienna 1975-; mem. Board of Trustees, Inst. for Advanced Study, Princeton, N.J. 1974-; Gov. Weizmann Inst. of Science, Rehovoth, Israel 1970-; Dir. Annual Reviews Inc. 1976-; mem. numerous advisory cttees., and editorial boards; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Fellow American Physical Soc.; Guggenheim Fellow, Rome 1972; Richtmeyer Memorial Lecturer to American Assen. of Physics Teachers 1978; Visiting Fellow, All Souls Coll., Oxford Univ. 1979; E. O. Lawrence Memorial Award 1972; Univ. of Illinois Alumni Award for Distinguished Service in Engineering 1973. *Publications:* Relativistic Quantum Mechanics, Relativistic Quantum Fields (both with J. D. Bjorken) and numerous articles in The Physical Review and other professional journals. *Leisure interest:* music. *Address:* Stanford Linear Accelerator Center, P.O. Box 4349, Stanford, Calif. 94305 (Office); 570 Alvarado Row, Stanford, Calif. 94305, U.S.A. (Home). *Telephone:* (415) 854-3300 (Office); (415) 325-0565 (Home).

DRESE, Claus Helmut, DR.PHIL.; German theatre director; b. 25 Dec. 1922, Aachen; s. of Karl Drese and Helene Drese; m. Helga Lautz 1950; two c.; studied German studies, philosophy and history in Cologne, Bonn and Marburg; Theatre Literary Man., Mannheim 1952-59; Theatre Dir., Heidelberg 1959-62, Wiesbaden 1962-68, Cologne 1968-75, Zurich 1975-. *Publications:* Various contributions to newspapers, radio and television. *Address:* Opernhaus Zürich, Schillerstrasse 1, 8001 Zürich, Switzerland.

DREW, Jane Beverly, F.R.I.B.A., F.I.ARB., F.S.I.A.; British architect; b. 24 March 1911, Thornton Heath, Surrey; d. of Harry Guy Radcliffe Drew and Emma Spering Jones; m. Edwin Maxwell Fry 1942; two d.; ed. Croydon High School, Architectural Assen.; in partnership with J. T. Alliston 1934-39; private practice 1939-45; Partner, Fry, Drew & Partners 1946-73, Fry, Drew, Knight & Creamer 1973-; Asst. Town Planning Adviser to Resident Minister, West African Colonies 1944-45; Senior Architect Capital Project of Chandigarh, Punjab, India 1951-54; Beamis Prof. M.I.T. 1961; Visiting Prof. of Architecture Harvard Univ. 1970; Bicentennial Prof., Utah Univ.; mem. Council Royal Inst. of British Architects; mem. Council, Pres. Architectural Assen. 1969; Hon. Fellow, American Inst. of Architects; Hon. LL.D. (Ibadan), Dr. h.c. (Open Univ.); major work includes housing, hospitals, schools, colls. in U.K., West Africa, Middle East, India; town planning, housing and amenity bldgs. in Iran, West Africa, India; a section of Festival of Britain 1951; current work in office planning, industrial housing, hospitals and Open Univ.; architectural consultancy and school design. *Publications:* Architecture for Children (with Maxwell Fry) 1944, Village Housing in the Tropics (with Maxwell Fry and Harry Ford) 1945, Founder Editor Architects' Year Book 1945-, Architecture in the Humid Tropics (with Maxwell Fry), Tropical Architecture 1956. *Address:* The Lake House, The Old Hollow, Rowfant, Sussex, England

DREYFUS, Pierre; French business executive; b. 18 Nov. 1907; Insp.-Gen. of Industry and Commerce, Chief of Gen. Inspectorate, and Dir. of Cabinet to Minister of Industry and Commerce 1947-49; Pres. Houillères de Lorraine 1950, Charbonnages de France 1954; Pres. of Energy Comm. of the Plan, and Dir. of Cabinet to Minister of Industry and Commerce 1954; Vice-Pres. Régie nationale des usines Renault 1948-55, Pres., Dir. Gen. 1955-57; Pres. Société des Aciers fins de l'Est 1955-76; Pres. Société Financière et Foncière, Société Renault-Finance, Lausanne 1976-; Commdr. Légion d'honneur. *Address:* 12 rue Duroc, 75007 Paris, France (Home).

DREYFUS, Pierre; French industrialist; b. 2 Nov. 1907, Mulhouse; m. Colette Schwob 1933; three c.; ed. Lycée de Mulhouse, Ecole de Filature et Tissage, Mulhouse; joined Etablissement Dreyfus Frères, Mulhouse 1929, Admin. Dir. 1933, Man. Dir. 1949-65; Président-directeur-général, P. Dreyfus et Cie, Mulhouse 1965-; Président du Directoire de Schaeffer-Impression, Vieux-Thann; Chevalier, Légion d'honneur. *Address:* Grand-Rue, 68 Vieux-Thann, France.

DRICK, John, E., B.S.; American banker; b. 26 Nov. 1911, Williamsport, Pa.; ed. Phillips Acad., Andover, Mass., and Sheffield Scientific School, Yale Univ.; Asst. Cashier, The First National Bank of Chicago 1944-46, Asst. Vice-Pres. 1947-50, Vice-Pres. Petroleum and Term Loans Divs. 1950-63, Senior Vice-Pres. 1964, Exec. Vice-Pres. 1965, Head of Commercial Banking Dept. 1968, Pres. 1969-74, Dir. 1969-77, Chair. Exec. Cttee. 1974-77, Hon. Dir. 1977-; Dir. Stepan Chemical Co., MCA Inc., Oak Industries Inc., Cen. Ill. Public Service Co., Outdoor Sports Industries. *Address:* 1 First National Plaza, Chicago, Ill. 60670 (Office); 1039 Miami Road, Wilmette, Ill., U.S.A. (Home).

DRICKAMER, Harry George, B.S.E., M.S., PH.D.; American professor of physical chemistry and chemical engineering; b. 19 Nov. 1918, Cleveland, Ohio; s. of George H. and Louise S. Drickamer; m. Mae Elizabeth McFillen 1942; two s. three d.; ed. Univ. of Michigan; Pan American Refining Corpn., Texas City 1942-46; Asst. Prof. of Chemical Engineering, Univ. of Illinois 1946-49, Assoc. Prof. 1949-

53, Prof. 1953-, Head, Div. of Chemical Engineering 1955-58, Prof. of Physical Chem. and Chemical Engineering 1958-, mem. Center for Advanced Study 1963-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Allan P. Colburn Award, American Inst. of Chemical Engineers 1947, Ipatieff Prize, American Chem. Soc. 1956, Oliver E. Buckley Solid State Physics Award, American Physical Soc. 1967, Alpha Chi Sigma Award, American Inst. of Chemical Engineers 1967, Walker Award 1972, Vincent Bendix Award, American Soc. of Engineering Educ. 1968, William Walker Award, American Inst. of Chemistry 1972, Langmuir Award in Chemical Physics, American Chemical Soc. 1974, P. W. Bridgman Award, Int. Assn. for the Advancement of High Pressure Research and Tech. 1977, Michelson-Morley Award, Case-Western reserve Univ. 1978. *Publications:* Over 290 papers in scientific journals. *Leisure interests:* reading of Roman, medieval and 18th century history, walking. *Address:* 105 R. Adams Laboratory, East Chemistry Building, University of Illinois, Urbana, Ill. 61801, (Office); 304 East Pennsylvania Street, Urbana, Ill. 61801, U.S.A. (Home). *Telephone:* (217) 333-0025 (Office).

DRIJVER, Alexander, M.MECH.ENG.; Netherlands mechanical engineer; b. 17 Nov. 1904, Bodegraven; m. 1930; five s. one d.; ed. Technische Hogeschool te Delft; Mechanical Eng., Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V., IJmuiden 1928, Chief, Engineering Dept. 1945-50, Dir. of Engineering 1950-59, Asst. Man. Dir. 1959-61, Man. Dir. 1961-67, Chair. of Board of Man. Dirs. 1967-70, deputy mem., Supervisory Board 1970-; Vice-Pres. Centre Nat. de Recherches Métallurgiques, Liège 1960-70; Dir. Int. Iron and Steel Inst. 1967-70; mem. State Council of Ministry of Waterworks 1967-; Board mem. Royal Soc. of Engineers (Netherlands), mem. Iron and Steel Inst. (U.K.), Verein Deutscher Eisenhüttenleute; Hon. mem. Iron and Steel Inst. of Japan; Gold Medal of Honour of Mech. Eng. and Shipbuilding Section of Royal Netherlands Soc. of Engineers; Knight Order of Netherlands Lion; Dr. h.c. *Publications:* articles and papers on technical and econ. devt. in iron and steel industry in nat. and int. magazines. *Leisure interests:* yachting, swimming, cycling, ice-skating; nature-lover. *Address:* Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V., IJmuiden (Office); Zomerzorgerlaan 4, Bloemendaal, Netherlands. *Telephone:* IJmuiden 99111 (Office); 023-252801 (Home).

DRISS, Rachid; Tunisian journalist and diplomatist; b. 27 Jan. 1917, Tunis; m. Jeanine Driss 1953; one s.; ed. Sadiki Coll., Tunis; joined Neo-Destour party 1934; journalist exiled in Cairo, and with Pres. Bourguiba founder mem. Bureau du Maghreb Arabe; returned to Tunisia 1955; Editor El Amal; Deputy, Constitutional Assembly 1956; Sec. of State Post Office and Communications 1957-64; mem. National Assembly 1958, 1969-; Amb. to the U.S.A. and Mexico 1964-68; mem. Political Bureau of Council of the Repub. 1969-; Perm. Rep. to UN 1970-76; Vice-Pres. Econ. and Soc. Council 1970, Pres. 1971; Grand Cordon de l'Ordre de l'Indépendance de la République Tunisienne and many foreign decorations. *Address:* P.O. Box 5, Tunis, Tunisia.

DRIVER, William J., B.B.A., LL.B.; American government official; b. 9 May 1918; s. of John J. Driver and Bridget A. Farrell; m. Marian R. McKay 1947; two s.; ed. Niagara Univ., Rochester, N.Y., and George Washington Univ., Washington, D.C.; Exec. and Admin. Officer, H.Q., Adjutant-Gen., European Theatre of Operations, U.S. Army 1942-46; Office of Asst. Chief of Staff, U.S. Army 1951-53; Chief Benefits Dir., Veterans Administration 1959-61; Deputy Admin., Veterans Admin. 1961-65, Admin. of Veterans Affairs 1965-69; Pres. Mfg. Chemists Assn. 1969-78; numerous awards. *Address:* 215 West Columbia Street, Falls Church, Virginia 22046, U.S.A.

DROGHEDA, 11th Earl of, cr. 1661; **Charles Garrett Ponsonby Moore,** K.G., K.B.E.; b. 23 April 1910; British newspaper executive and arts administrator; ed. Eton and Trinity Coll., Cambridge; joined staff of Financial News 1932-; worked for Ministry of Production 1942-45; Man. Dir. Financial Times 1945-70, Chair. and Chief Exec. 1971-75; Dir. Industrial & Trade Fairs Ltd.; Dir. Economist Newspaper Ltd.; Chair. Royal Opera House, Covent Garden Ltd. 1958-74, Newspaper Publrs.' Assn. Ltd. 1968-70; Gov. The Royal Ballet; Pres. Inst. of Dirs. 1975-76; Chair. London Celebrations Cttee. Queen's Silver Jubilee 1977; Pres. Contemporary Dance Theatre; Trustee, British Museum 1974-; Joint Chair. Youth and Music; Commdr. Légion d'honneur 1960, Ordine al Merito (Italy) 1968, Grand Officer Order of Léopold II (Belgium) 1974. *Address:* Parkside House, Wick Lane, Englefield Green, Surrey; 8 Lord North Street, London, S.W.1, England. *Telephone:* Egham 2800.

DROIT, Michel; French journalist and writer; b. 23 Jan. 1923, Vincennes; s. of Jean Droit; m. Janine Bazin 1947; one s. one d.; ed. Lycée Louis le Grand, Paris, Univ. of Paris, and Ecole Libre des Sciences Politiques; Resistance Movement 1942-44; War Correspondent and Reporter for press, radio and TV 1944-56; Foreign Affairs Commentator, French TV 1956-60; Editor-in-Chief Tribunes et Débats, French TV 1960-61; Editor-in-Chief Le Figaro Littéraire 1961-71; Advisory Editor to La Librairie Plon 1968; Management Adviser to Le Figaro 1971-; Producer TV Programme A propos 1962-74, Ces Années Là 1975; Chair. Safaris de la Ouandjia-Vakaga, Central African Empire, Prix Max Barthou 1955, Prix Carlos de Lazerme 1961, Grand Prix du Roman de l'Académie Française 1964; Chevalier, Légion d'honneur, Médaille militaire. *Publications:* novels: L'écorché, Pueblo, Le retour, Les compagnons de la Forêt-Noire, L'Orient perdu, La ville blanche, La mort du connétable; travel: Jours et nuits d'Amérique du sud, J'ai vu vivre le Japon, Panoramas mexicains; essays: André Maurois, La Camargue; biography: De Lattre Maréchal de France, L'homme du destin (5 vols.); short stories: La fille de l'ancre bleue; film: Un Français libre. *Leisure interests:* big game hunting, karate, skin-diving. *Address:* 29 avenue d'Eylau, 75016 Paris, France. *Telephone:* Kleber 23-10.

DROOGLEEVER FORTUYN, Jan, M.D., M.SC.; Netherlands neurologist; b. 12 April 1906; ed. Univs. of Utrecht, Amsterdam; Dept. of Neurology, Amsterdam 1939-51; Prof. Emer. of Neurology, Groningen 1951-; Montreal Neurological Inst. 1946-47; Dutch Central Inst. for Brain Research 1947-51. *Publications:* Experimental Study on Cortico-Thalamic Relationships 1938, Studies in Epilepsy 1947, Studies on Topographical Relationships in the Brain 1956, Petit Mal 1957, Geometrical properties of the neurons in general and of the lateral geniculate body of the rabbit in particular 1964, Forms of Muscle Fatigue 1970, On the State of the Nervous System and Related Subjects 1971-73. *Address:* Department of Neurology, University Hospital, Oostersingel 59, Groningen, Netherlands. *Telephone:* 050-139123.

DROZDENKO, Vasiliy Ivanovich; Soviet diplomatist; b. 1924; ed. Engineering Inst., Dnepropetrovsk and CPSU Higher Party School; Mem. CPSU 1944-, mem. Cen. Auditing Comm. CPSU 1961-66, cand. mem. Cen. Cttee. CPSU 1966-71, mem. 1971-; army service 1942-45; party and Komsomol work 1946-52; Sec. Cen. Cttee. Ukrainian CP 1952-54, Second Sec. 1954-55, First Sec. 1955-60; First Sec., Kiev City Cttee., Ukrainian CP 1960-62; First Sec., Regional CP Cttee., Kiev 1962-66; Sec. Cen. Cttee., CP of Ukrainian S.S.R. 1966-71; Amb. to Romania 1971-; Order of Lenin (twice), Order of October Revolution and other decorations. *Address:* Soviet Embassy, Şoseaua Kiseleff 6, Bucharest, Romania.

DRUCKER, Peter Ferdinand, LL.D.; American management consultant and teacher; b. 19 Nov. 1909, Vienna, Austria; s. of Adolph and Caroline Drucker; m. Doris Schmitz 1937; one s. three d.; ed. gymnasium, Vienna and Univ. of Frankfurt; Prof. of Political Philosophy, Bennington Coll., Bennington, Vt. 1942-49; Prof. of Management, Graduate School of Business Admin., New York 1950-72; Clarke Prof. of Social Science, Claremont Grad. School, Claremont, Calif. 1971-; Management Consultant (own firm) 1945–; Fellow, American Assn. for Advancement of Science, American Acad. of Management, Int. Acad. of Management; Hon. Fellow, British Inst. of Management; ten hon. degrees from univs. in U.S.A., U.K., Japan, Belgium and Switzerland. *Publications:* The End of Economic Man 1939, The Future of Industrial Man 1942, Concept of the Corporation 1946, The New Society 1950, The Practice of Management 1954, America's Next Twenty Years 1957, Landmarks of Tomorrow 1959, Managing for Results 1964, The Effective Executive 1966, The Age of Discontinuity 1969, Technology, Management and Society 1970, The New Markets and other essays 1971, Management: Tasks, Responsibilities, Practices 1974, The Unseen Revolution; How Pension Fund Socialism came to America 1976, People and Performance 1977, Management, an Overview 1978 and textbooks and educational films. *Address:* Claremont Graduate School, Claremont, Calif. 91711 (Office); 636 Wellesley Drive, Claremont, Calif., U.S.A. (Home). *Telephone:* (714) 621-1488 (Home).

DRUMALBYN, 1st Baron, cr. 1963, of Whitesands; **Niall Malcolm Stewart Macpherson,** P.C., K.B.E.; British politician; b. 3 Aug. 1908, Gaya, India; s. of Sir (Thomas) Stewart Macpherson, C.I.E., I.C.S.; m. Margaret Phyllis Runge 1937; two d.; ed. Edinburgh Acad., Fettes Coll., and Trinity Coll., Oxford; with Reckitt & Colman Ltd. 1931-39; Major, Queen's Own Cameron Highlanders 1939-45; M.P. for Dumfries 1945-63; Joint Under-Sec. of State for Scotland 1955-60; Parl. Sec. Board of Trade 1960-62; Minister of Pensions and Nat. Insurance 1962-63; Minister of State, Board of Trade 1963-64; Chair. Advertising Standards Authority 1965-70, 1974-77; Chair. Overseas Cttee., Assn. of British Chambers of Commerce 1968-70; Minister without Portfolio 1970-74; Conserv-

ative. *Leisure interests:* music, sport. *Address:* Claytons, Beeches Hill, Bishop's Waltham, by Southampton, SO3 1FU, England. *Telephone:* (04893) 2663.

DRUMMOND, Roscoe, B.S.J.; American journalist and writer; ed. Syracuse Univ.; Reporter with Christian Science Monitor, Boston 1924, later editorial writer, Chief, Washington News Bureau; on leave as Dir. of Information, E.C.A. (Paris) 1949-51; Chief, Washington Bureau New York Herald Tribune 1953-55; Washington columnist for Publishers' Newspaper Syndicate 1955-; Hon. Litt.D. (Dartmouth Coll.) 1947, Hon. D.D.L. (Principia Coll.) 1954. *Publication:* Duel at the Brink: John Foster Dulles' Command of American Power (with Gaston Coblenz) 1960. *Address:* 3900 Cathedral Avenue, N.W., Washington, D.C. 20016, U.S.A.

DRUMMOND DE ANDRADE, Carlos; Brazilian writer; b. 30 Oct. 1902; Head of Private Office of Minister of Educ. and Culture 1934-45; Head of History Section, Office of Nat. and Artistic Heritage 1945-62; Historian of Correio da Manhã (Rio de Janeiro) 1954-. *Publications:* Poetry includes: Alguma poesia 1930, Brejo das Almas 1934, Sentimento do Mundo 1940, A Rosa do Povo 1945, Claro Enigma 1951, Fazendeiro do Ar 1953, Lição de Coisas 1962; prose: Contos de Aprendiz 1951, and four vols. of history. *Address:* Rua Conselheiro Lafaiete 60, Ap. 701, Rio de Janeiro, RJ, Brazil.

DRUON, Maurice Samuel Roger Charles; French author; b. 23 April 1918, Paris; m. Madeleine Marignac 1968; ed. Lycée Michelet and Ecole des Sciences Politiques et Faculté des Lettres de Paris; War Corresp. Allied Armies 1944-45; mem. Académie Française 1966-; Minister for Cultural Affairs 1973-74; Prix Goncourt for novel Les Grandes Familles 1948, Prix de Monaco 1966; Officier, Légion d'honneur, Commdr. des Arts et Lettres, Commdr. Order of Phoenix (Greece), Commdr. Ordre de la Républíque de Tunisie; Grand Cross of Merit (Italy), Grand-Croix ordre du Lion du Sénégal, Grand Cross of the Aztec Eagle (Mexico), Grand Officer, Order of Merit (Malta), Ordre de Mérite culturel (Monaco). *Publications:* Lettres d'un Européen 1943, La dernière brigade 1946, La fin des hommes (3 vols. Les grandes familles 1948, La chute des corps 1950, Rendez-vous aux enfers 1951), La volupté d'être 1954, Les rois maudits 1955-60 (6 vols. Le roi de fer, La reine étranglée, Les poisons de la couronne, La loi des mâles, La louve de France, Le lis et le lion), Tistou les pouces verts 1957, Alexandre le Dieu 1958, Des seigneurs de la plaine à l'hôtel de Mondez 1962, Les mémoires de Zeus (2 vols. L'aube des dieux 1963, Les jours des hommes 1967), Bernard Buffet 1964, Paris, de César à Saint Louis 1964, Le pouvoir 1965, Les tambours de la mémoire 1965, Le bonheur des uns . . . 1967, Discours de réception à l'Académie française 1968, L'avenir en désarroi 1968, Vezelay, colline éternelle 1968, Nouvelles lettres d'un européen 1943-70, Une église qui se trompe de siècle 1972, La parole et le pouvoir 1974, Oeuvres complètes 1974-76; plays: Mégarée 1942, Un voyageur 1953, La Contessa 1962. *Leisure interest:* riding. *Address:* 73 rue de Varenne, 75007 Paris; Abbaye de Faize, Les Artigues de Lussac, 33570 Lussac, France.

DRURY, Allen Stuart, B.A.; American writer; b. 2 Sept. 1918, Houston; ed. Stanford Univ.; Editor Tulare Bee 1940-41; County Editor Bakersfeld Californian 1942; army service 1942-43; Senate Staff, United Press 1943-45; freelance corresp. Washington 1946-47; Nat. Editor Pathfinder Magazine 1947-52; Nat. Staff, Washington Evening Star 1952-54; Senate Staff, New York Times 1954-59; contrib. Readers' Digest 1959-62; Pulitzer Prize for novel Advise and Consent 1960. *Publications:* advise and Consent 1959, A Shade of Difference 1962, A Senate Journal 1963, That Summer 1965, Three Kids in a Cart 1965, Capable of Honor 1966, A Very Strange Society, Courage and Hesitation 1971, The Promise of Joy: The Presidency of Orrin Know, Come Nineveh, Come Tyre 1974, A God against the Gods 1976, Return to Thebes 1976, Anna Hastings 1977. *Address:* c/o Doubleday and Co. Inc., 245 Park Avenue, New York, N.Y. 10017, U.S.A.

DRURY, Hon. Charles Mills, P.C., C.B.E., D.S.O., E.D.; Canadian politician; b. 17 May 1912; m. Jane Ferrier Counsell (deceased); two s. two d.; ed. McGill Univ., Royal Military Coll., Kingston, Ontario, and Univ. of Paris; Chief, UNRRA Mission, Poland 1945-47; Dep. Minister, Dept. of Nat. Defence 1949-55; Pres. Provincial Transport Co. 1956-60; Pres. Avis Transport of Canada Ltd. 1958-63, Needco Frigistors Ltd. 1960-63; Dir. Livingstone Range Syndicate Ltd. 1961-63; Minister of Defence Production and Industry 1963-68; Pres. of Treasury Board 1968-74; Minister of Science and Technology and of Public Works 1974-76; Special Rep. for Constitutional Devt. in N.W. Territories 1977; resigned seat in House of Commons Jan. 1978; Chair. Nat. Capital Comm. Feb. 1978-; Chevalier de la Légion d'honneur, Order of Polonia Restituta (Poland); Liberal. *Leisure interest:* sport. *Address:* 23 Mackay Street, Ottawa, Ontario, Canada.

DRUZHININ, Nikolay Mikhailovich; Soviet historian; b. 13 Jan. 1886, Kursk; s. of Mikhail and Nadyezhda (Khudokormova) Druzhinin; m. Yelena Iosifovna Chistyakova 1949; ed. Moscow Univ.; Officer in World War I 1916-18; Educ. Officer, Red Army 1919-21; gen. educ. work 1919-29; Prof. Moscow Univ. 1934-48; research work Historical Inst. of U.S.S.R. Acad. of Sciences 1938–; mem. U.S.S.R. Acad. of Sciences 1953-; State Prize, Order of Lenin (three), Order of Red Banner of Labour (two). *Publications include:* Decembrist Nikita Muravjev 1933, On Periods of History of Capitalist Economic System in Russia 1949, State Peasantry and P. D. Kiselev's Reform, Vols. 1-2 1946-58, Conflict Between Productive Forces and Feudal Economic System Before 1861 Reform 1957, Memoirs and Thoughts of an Historian 1967, Besonderheiten der Genesis des Kapitalismus in Russland 1973, The Effect of the Agrarian Reforms of the 1860s upon the Economy of the Russian Village 1975, Russian Village in Turning-Point (1861-1880), The Economics and Social History of Russia 1976. *Leisure interest:* 19th century history. *Address:* U.S.S.R. Academy of Sciences, Department of History, 19 Ul. Dmitry Ulyanov, Moscow, U.S.S.R.

DRYSDALE, Sir (George) Russell, Kt.; British-born Australian artist; b. 7 Feb. 1912; ed. Geelong Grammar School, Victoria, Australia; art studies in Melbourne, London and Paris; works in New York Metropolitan Museum of Art, Nat. Gallery, London, Tate Gallery, London, Nat. Galleries of New South Wales, Victoria, South Australia, etc.; mem. Commonwealth Art Advisory Board 1962-73; Dir. Pioneer Sugar Mills Ltd. *Publication:* (with Jock Marshall) Journey Among Men 1962. *Address:* Bouddi Farm, Kilcare Heights, Hardy's Bay, N.S.W., Australia.

DUA, Indardev, B.A., LL.B.; Indian judge; b. 4 Oct. 1907, Mardan (now in Pakistan); s. of Amirchand and Parbati Devi; m. Sheila Dua 1951; one s.; ed. Christian Coll., Lahore, Law Coll., Punjab and Punjab Univ.; practised at the Bar, Lahore High Court 1933-47; Punjab High Court 1947-58; Judge, Punjab High Court 1958, Delhi High Court 1966; Chief Justice, Delhi High Court 1967-69; Judge of the Supreme Court 1969-73; mem. Int. Law Assn., Regional Branch (India), Ombudsman Advisory Board, Int. Bar Assn., Allentown, Pa., U.S.A.; Lokayukta (Ombudsman), State of Rajasthan 1973-; Chair. Human Rights Sub-Cttee., Int. Law Assn.; mem. Ombudsman Advisory Board, Int. Bar Assn. *Leisure interests:* studies in development of rule of law and liberal-democratic movement, human rights, interested in promoting egalitarian system of society. *Address:* 5-C, Sagar Apartments, 6, Tilak Marg, New Delhi, India. *Telephone:* 387537.

DUARTE, Paulo; Brazilian writer, journalist, and anthropologist; b. 1899; ed. Institut Champagnat, France and Faculty of Law, São Paulo, Institut d'Ethnologie and Musée de l'Homme, Paris; former Deputy 1934-37; Editor of Diário Nacional, O Estado de São Paulo, and Dir. of Editôra Anhambi; during the 1932 revolution commanded the Frente de Bianor and Trem Blindado which fought and took part in the retreat of Cruzeiros; exiled, returned to Brazil 1934; elected State Legislature; exiled again 1937, returned 1946; Pres. Cttee. for Prehistory, São Paulo Inst. of Prehistory and Ethnology; worked at Musée de l'Homme, Paris, and Museum of Modern Art, New York; founded the periodical Anhambi; Pres. Sociedade de Escritores and Sec.-Gen. Institut Français des Hautes Etudes Brésiliennes, Paris; Dir. Inst. of Prehistory, Univ. de São Paulo. *Publications:* Sob as Arcadas 1927, Agora Nos 1927, Versos de Trilussa 1928, Que e que há 1931, Contra o Vandalismo e o Exterminio 1936, Variações sobre a gastronomia 1942, Lingua Brasileira 1942, Prisão, Exilio e Luta 1945, Palmares pelo Avesso 1947, Trilussa 1955, O Espírito das Catedrais 1958, Paul Rivet, por ele mesmo 1960, O resto não é silencio 1966, O Sambaqui Visto atraves de alguns Sambaquis 1968. *Address:* Cuidade Universitária, Caixa Postal 11.133, São Paulo, SP, Brazil.

DUBČEK, Alexander, R.S.DR.; Czechoslovak politician; b. 27 Nov. 1921, Uhrovec; ed. Communist Party Coll., Moscow, and Law Faculty, Comenius Univ., Bratislava; Chief Sec. of Regional Cttee. of CP of Slovakia in Banská Bystrica 1953-55; Chief Sec. Regional Cttee. of CP of Slovakia, Bratislava 1958-60; mem. Presidium and Sec. of Cen. Cttee. of CP of Slovakia 1962-68; mem. Presidium Cen. Cttee. of CP of Czechoslovakia 1963-69; First Sec. Cen. Cttee. of CP of Slovakia 1963-68; First Sec. Cen. Cttee. CP of Czechoslovakia 1968-69; Chair. Cen. Cttee. of Slovak Nat. Front 1963-68; mem. Presidium of Cen. Cttee. of Nat Front; Deputy to Nat. Assembly 1948, 1960, 1964-69, and to Slovak Nat. Council 1964-70; mem. Exec. Cttee. of Presidium Cen. Cttee. CP of Czechoslovakia 1968-69; Deputy to House of the People 1967-70; Chair. Fed. Assembly April-Oct. 1969; Amb. to Turkey 1969-70; Inspector, Forestry Admin., Bratislava 1970-; Order of 25 Feb. 1948, 1949, Award for Merits in Construction 1958, Czechoslovak Peace Prize 1968. *Address:* Forestry Enterprise, Bratislava, Czechoslovakia.

DUBININ, Mikhail Mikhailovich; Soviet physical chemist; b. 1 Jan. 1901, Moscow; ed. Moscow Higher Technical School; in Moscow Higher Technical School 1921-32, Prof. 1933-, Head of Laboratory of Sorbtion Processes, Inst. of Physical Chemistry, U.S.S.R. Acad. of Sciences 1946-; mem. U.S.S.R. Acad. of Sciences 1943-; Pres. Mendeleyev Chemical Soc. 1946-50; Head Chemical Section U.S.S.R. Acad. of Sciences 1948-57; Editor-in-Chief Bulletin of U.S.S.R. Academy of Sciences, Chemical Series; Hon. mem. Hungarian Acad. of Sciences; State Prize 1942, 1950; Hero of Socialist Labour, Order of Lenin (twice), Order of the Patriotic War, Order of the Red Star (twice), Hammer and Sickle Gold Medal and other decorations. *Publications:* Fiziko-khimicheskie osnovy sortsionnoi tekhniki 1935, 1939, Theory of Volume Filling for Vapor Adsorption 1966, Porous Structure and Adsorption Properties of Active Carbons 1966, Adsorption in Micropores 1967, Porous Structure of Adsorbents and Catalysts 1967, Surface of Non-Porous and Porous Adsorbents 1970, 1973, 1974, Physical Adsorption of Gases and Vapors in Micropores 1975. *Address:* c/o U.S.S.R. Institute of Physical Chemistry, Academy of Sciences, Leninsky Prospekt 31, Moscow 117071, U.S.S.R.

DUBININ, Nikolay Petrovich; Soviet geneticist; b. 4 Jan. 1907, Kronstadt; s. of Pyotr Fedorivich and Anna Gerasimovna Dubinin; m. Lydia Georgievna Dubinina 1962; one d.; ed. Moscow Univ.; at Moscow Zootechnical Inst. 1928-32; at Inst. of Cytology, Histology and Embryology, U.S.S.R. Acad. of Sciences 1932-48; at Inst. of Forestry 1949-55, Inst. of Biophysics 1955-58; Dir. Inst. of Cytology and Genetics, Siberian Dept., U.S.S.R. Acad. of Sciences 1958-60; Dir. Inst. of Gen. Genetics, U.S.S.R. Acad. of Sciences 1966-; mem. CPSU 1969-; Presidium mem. Siberian Dept., U.S.S.R. Acad. of Sciences 1958; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-66, mem. 1966-; Chair. of "Man and Environment" Section of State Cttee. for Science and Technology of U.S.S.R. Council of Ministers; Darwin Medal 1950, Lenin Prize 1966, Order of October Revolution 1975, 30th Anniversary of Victory Medal. *Publications:* General Genetics 1970, Horizons of Genetics 1970, Vesnoe Dvizhenie 1973. *Leisure interests:* fishing, hunting. *Address:* Institute of General Genetics, U.S.S.R. Academy of Sciences, 7 Profsoyuznaya Street, 117312 Moscow, U.S.S.R. *Telephone:* 135-62-13.

DUBINSKY, David; Polish-born American trade unionist; b. 22 Feb. 1892; emigrated to U.S.A. 1911, naturalized 1916; Man. Sec. Local Branch Int. Ladies' Garment Workers' Union 1921-29; Vice-Pres. Int. Ladies' Garment Workers' Union 1922-29, Gen. Sec. and Treas. 1929-32, Pres., Gen. Sec. and Treas. 1932-59, Pres. 1959-66; Vice-Pres. and mem. Exec. Council A.F.L. 1934-36 (resigned), 1945-55, A.F.L.-C.I.O. 1955-; a founder of the American Labor Party 1936; founder Vice-Chair. Liberal Party 1944; founder Americans for Democratic Action 1947. *Address:* 24 Fifth Avenue, New York City, N.Y. 10011, U.S.A.

DUBOIS, Jacques-Emile, D.SC.; French university professor; b. 13 April 1920, Lille; s. of Paul Dubois and Emilienne Chevrier; m. Bernice Claire Shaaker 1952; one s. one d.; ed. Univs. of Lille and Grenoble; Mem. Liberation Cttee., Isère 1943-47; Ramsay Fellow, Univ. Coll., London 1948-50; Scientific Adviser to French Cultural Counsellor, London 1948-50; Prof. of Physical Chemistry and Petrochemistry, and Dir. of Chemistry Inst., Univ. of Saar 1949-57, Dean of Science Faculty 1953-57; Prof. of Physical Organic Chemistry, Univ. of Paris 1957-; Research Fellow, Columbia Univ., New York 1956; Guest Prof. of Physical Chemistry, Univ. of Saar 1958; Scientific Adviser to French Minister of Educ. 1962-63; Joint Dir. of Higher Educ. 1963-65; Dir. of Research for Ministry of Defence 1965-77; Co-Dir. Curie Foundation 1977-; Dir. French Nat. Univ. Agency for Scientific and Tech. Documentation and Information (AUDIST) 1978-; Chair. IUPAC Interdivisional Cttee. on Machine Documentation 1970-77; Pres., Assen. for Research and Devt. in Chem. Informatics (ARDIC) 1971-; Vice-Pres. French Physical Chem. Soc. 1972-74, Pres. 1974-76; French Nat. Del. to Codata; mem. Directorate Nat. Research Council 1963-71, 1976-; mem. Council French Chemical Soc. 1965-67; mem. Faraday Soc.; Officier Légion d'honneur, Commdr. Ordre national du Mérite, Médaille de la Résistance, Commdr. des Palmes académiques, Jecker Prize and Berthelot Medal (Acad. of Sciences), Le Bel and Ancel Prizes (French Chemical Soc.), Stas Medal (Belgian Chemical Soc.), Grand Prix Technique, City of Paris 1975. *Publications:* works in field of kinetics, fast reaction rates, electro-chemistry, automation applied to chemistry and author of the D.A.R.C. topological system used for on-line information systems and for computer-assisted design in chemistry. *Leisure interests:* skiing, water skiing. *Address* 100 rue de Rennes, 75006 Paris, France. *Telephone:* 222-45-16.

DUBOS, René Jules, PH.D.; American bacteriologist; b. 20 Feb. 1901, Saint Brice, France; ed. Coll. Chaptal and Inst. Nat. Agronomique (Paris); Asst. Editor Int. Inst. of Agronomy, Rome 1922-24; settled in U.S.A. 1924 (naturalized U.S. citizen 1938); Research Asst. Rutgers Univ. N.J. Experimental Station 1924-27; Fellow, Rockefeller Univ. for Medical Research 1927-28, Asst. 1928-30, Assoc. 1930-38, Assoc. mem. 1938-41, mem. 1941-42; Fabyan Prof. of Comparative Pathology and Tropical Medicine, Harvard Univ. Medical School 1942-44; mem. Rockefeller Univ. for Medical Research 1944-56, Prof. 1956-71, Emer. 1971-; mem. Emer. Nat. Acad. of Sciences, American Philosophical Soc., Nat. Research Council; numerous awards include John Phillips Memorial Award (American Coll. of Physicians) 1940, George Wilson Medal (American Clinical and Climatological Assen.) 1946, Lasker Award (American Public Health Assen.) 1948, Hitchcock Award (Univ. of Calif.) 1954, Scientific Achievement Award (American Medical Assen.), Arches of Science Award 1966, Pulitzer Prize for Non-Fiction for So Human an Animal 1969, Inst. of Life Prize 1972; numerous hon. degrees. *Publications include:* The Bacterial Cell 1945, Bacterial and Mycotic Infections of Man 1948, Louis Pasteur 1950, The White Plague—Tuberculosis, Man and Society 1952, Biochemical Determinants of Microbial Disease 1954, Mirage of Health 1959, The Unseen World 1963, Health and Disease 1965, Man Adapting 1965, Man, Medicine & Environment 1968, So Human an Animal 1968, Reason Awake: Science for Man 1970, A God Within 1972, Only One Earth (co-author Barbara Ward) 1972, Beast or Angel? 1974, Of Human Diversity 1974, The Professor, The Institute and DNA 1976. *Address:* Rockefeller University, 1230 York Avenue, New York, N.Y. 10021 (Office); Old Albany Post Road, Garrison, New York, N.Y. 10524, U.S.A. (Home).

DUBRIDGE, Lee Alvin, M.A., PH.D.; American physicist and educator; b. 21 Sept. 1901, Terre Haute, Indiana; s. of Frederick A. and Elizabeth (née Browne) DuBridge; m. Doris M. Koht 1925; one s. one d.; ed. Cornell Coll., and Univ. of Wisconsin. Instructor in Physics, Univ. of Wisconsin 1925-26; Fellow Nat. Research Council at Calif. Inst. of Technology 1926-28; Asst. Prof. of Physics, Washington Univ. St. Louis, Mo. 1928-33; Assoc. Prof. 1933-34; Prof. of Physics and Chair. of Dept., Univ. of Rochester 1934-46; Dean of Faculty of Arts and Science 1938-42; on leave of absence, Univ. of Rochester, for war service as Dir. of Radiation Lab. at M.I.T., under the Nat. Defense Research Cttee. 1940-45; Pres. of Calif. Institute of Tech. 1949-69; Scientific Adviser to Pres. Nixon 1969-70; mem. Scientific Advisory Cttee., Gen. Motors 1971-; mem. Gen. Advisory Cttee. U.S. Atomic Energy Comm. 1946-52; Chair. Science Advisory Cttee., Office of Defense Mobilisation 1952-56; mem. Nat. Academy of Sciences, American Philosophical Society; Pres. American Physical Society 1947; mem. Governing Board, American Inst. of Physics 1941-46; Fellow, American Assen. for Advancement of Science; mem. Board of Trustees, Carnegie Endowment for Int. Peace 1951-57, Nat. Science Foundation Board 1950-54, 1958-64; mem. Board of Trustees, Rockefeller Foundation 1956-67; mem. Board of Trustees Mellon Inst. 1958-67; Trustee, U.S. Churchill Foundation 1960-68, Thomas Alva Edison Foundation, Inc. 1960-68, Henry E. Huntington Library and Art Gallery, San Marino, Calif.; various directorships, Benjamin Franklin Fellow, Royal Soc. of Arts, London, England 1962-; Research Corpn. award 1947, Medal for Merit 1948, King's Medal for Service in Cause of Freedom 1946, Hon. Fellow and Gold Medal award American Coll. of Cardiology 1966; numerous hon. degrees. *Publications:* Photoelectric Phenomena (with A. L. Hughes) 1932, New Theories of the Photoelectric Effect 1935, Introduction to Space 1960. *Address:* Apartment 3A, 2355 Via Mariposa West, Laguna Hills, Calif. 92653, U.S.A. (Home).

DUBUFFET, Jean; French artist; b. 31 July 1901, Le Havre, France; m. Emilie Carlu 1937; one d.; ed. Académie Julian (Paris) 1918-19; worked alternately as painter and commercial traveller 1924-42; free-lance artist 1942-; first exhibition at Galerie Drouin, Paris 1944, and many subsequent exhibitions in various countries; travels in the Sahara 1947-49; settled at Vence 1955; has made extensive study of "Art Brut"—the work of criminals, mental defectives, etc.; has experimented widely in the production of works from unusual materials such as sand, sponges, nails, tar and glass; retrospective exhbn., Tate Gallery, London 1966, Guggenheim Museum, New York 1967, 1973, Grand Palais, Paris 1973. *Publication:* Prospectus et tous écrits suivants vol. I 1968, Vol. II 1967. *Address:* 51 rue de Verneuil, Paris, France.

DU CANN, Col. the Rt. Hon. Edward Dillon Lott, P.C., M.A., M.P.; British politician and banker; b. 28 May 1924, Beckenham; s. of C. G. L. du Cann; m. Sallie Murchie 1962; two d. one s.; ed. Woodbridge School, Suffolk, and St. John's Coll., Oxford; M.P. 1956-; Founder and Chair. Unicorn Group of Unit Trusts 1957-62, 1964-72; Chair. Assen. Unit Trust Mans. 1961; Econ. Sec. to the Treasury 1962-63; Minister of State, Board of Trade 1963-64; Chair. of Conservative Party 1965-67; Chair. 1922 Cttee. 1972-; First Chair. Select Cttee. on Public Expenditure 1970-72, Public Accounts

Cttee. 1972-; Chair. Keyser Ullmann Ltd. 1968-75, Cannon Assurance Ltd. 1972-; Dir. Lonrho Ltd. 1972-, Centralised Audio Systems 1977-; Visiting Fellow, Univ. of Lancaster Business School; Patron, Assen. of Insurance Brokers 1973-; Hon. Col. 155 Regiment (Wessex) Volunteers, Admiral, House of Commons Yacht Club. *Publication:* Investing Simplified 1959. *Address:* 9 Tufton Court, Tufton Street, London, S.W.1, England.

DUCCI, Roberto, LL.D.; Italian diplomatist; b. 8 Feb. 1914, Florence; s. of Adm. of the Fleet Gino Ducci and Virginia Boncinelli; m. Wanda Matyjewicz 1951; two s.; ed. Rome Univ.; entered Foreign Service 1937; served Ottawa 1938, Newark N.J. 1940; Italian Del. to Peace Conf. 1946, Warsaw 1947, Rio de Janeiro 1949, Italian Del. to N.A.T.O. and O.E.E.C. 1950-55; mem. Del. Brussels Six-Power Conf. 1955-57; Chair. Drafting Cttee. Rome Treaties 1956-57; Asst. Dir.-Gen. Economic Affairs 1955-57; Amb. to Finland 1958-62; mem. Board, European Investment Bank 1958-68; Head, Italian Del. to Brussels U.K.-EEC Conf. 1961-63; Deputy Dir.-Gen. for Political Affairs 1963-64, Dir.-Gen. 1970-75; Amb. to Yugoslavia 1964-67, to Austria 1967-70, to U.K. 1975-(79), Grand Cross, Italian Order of Merit. *Publications:* Prima età di Napoleone 1933, Questa Italia 1948, L'Europa Incompiuta 1971, D'Annunzio Vivente 1973, I Contemporanei 1976, L'Innocenza (poems) 1978 and numerous political essays and articles. *Leisure interests:* riding, collecting delicate ornaments. *Address:* Via Belisana 35, 00187, Rome, Italy.

DUCHESNE, Lucien R.; French international official; b. 9 March 1908, Paris; m.; two d.; Mem. Staff, Int. Chamber of Commerce 1932-, later Asst. Sec.-Gen. and Admin. Dir.; Sec. Int. Congresses 1933-; Sec. of Council, Exec. Cttee. and Budget Comm.; Sec. Int. Bureau of Chambers of Commerce 1950-56; mem. soc. for Accountancy and French Inst. of Expert-Accountants 1936-; mem. Ecole Nouvelle d'Organisation Economique et Sociale 1945-; Mayor of La Celle Saint-Cloud 1959-; Gen. Councillor of Yvelines district 1964–; Chevalier, Légion d'honneur, and numerous other French and foreign honours and medals. *Address:* 15 Allée Corot, 78170 La Celle Saint-Cloud, France. *Telephone:* 969 70 33.

DUCKMANTON, Talbot Sydney, C.B.E.; Australian broadcasting executive; b. 26 Oct. 1921, South Yarra, Victoria; s. of S. J. Duckmanton; m. Florence Simmonds 1947; one s. three d.; ed. Newington Coll., Stanmore, New South Wales, Sydney Univ. and Australian Administrative Staff Coll.; Australian Army and Air Force Service; Australian Broadcasting Comm. 1939-, Man. for Tasmania 1953-57, Controller of Admin. 1957-59, Asst. Gen. Man. (Admin.) 1959-64, Deputy Gen. Man. 1964-65, Gen. Man. 1965-; Vice-Pres. Asian Broadcasting Union 1970-73, Pres. 1973-77; Pres. Commonwealth Broadcasting Assen. 1975-; Trustee, Visnews Ltd. 1965-; mem. Council, Australian Admin. Staff Coll. 1969-, Australian Film Devt. Corpn. 1970-75, Australian Council for the Arts 1973-75, Int. Inst. of Communciations. *Address:* Australian Broadcasting Commission, 145-153 Elizabeth Street, Sydney, 2000 New South Wales, Australia. *Telephone:* 31-0211.

DUCREUX, Louis Raymond; French theatrical and operatic manager; b. 22 Sept. 1911; Artistic Man. Theatrical Company Le Rideau Gris 1931-35; Co-Dir. with André Roussin 1935-40; Stage Dir. Compagnie Claude Dauphin, Cannes 1940-42; Actor-Man. La Comédie de Lyon 1942-43; playwright, actor, composer and stage dir. in Paris 1944-61; Man. Opéra de Marseille 1961-65, 1968-72, Opéra de Monte Carlo 1965-72, Grand Théâtre de Nancy 1973-77; Officier Légion d'honneur, Officier des Arts et Lettres. *Publications:* Plays: La part du feu, Un souvenir d'Italie, French version of The Heiress and Bell, Book and Candle; Musical Plays: L'amour en papier, Le Square du Pérou; Libretto of L'héritière. *Address:* 10 rue Hégé Sippe Moreau, 75018 Paris, France.

DUDA, Edward, M.A.; Polish politician; b. 1922, Podedworze, Włodawa district; ed. Higher School of Social Sciences, Warsaw; Mem. of Peasant Battalions (BCh) and later of People's Army (AL) during Nazi occupation 1940-45; mem. Civic Militia, later mem. Łódź Voivodship Board, Union of Fighters for Freedom and Democracy (ZBoWiD) during post-war years; active mem. youth orgs.; Editor-in-Chief Walka Młodych 1951-55; Deputy Chair. of Presidium, Warsaw Voivodship Nat. Council 1955-58; Head of Propaganda Dept., Cen. Cttee. of United Peasant Party (ZSL) 1958-59, 1962-65; Chair. of Presidium, Rzeszów Nat. Council 1965-69; mem. Exec. Council of ZSL 1949, mem. Cen. Cttee. 1959-, Sec. of Cen. Cttee. 1969-, mem. Presidium of Cen. Cttee. 1971-; Deputy to Seym 1961-, Chair. Seym Comm. for Admin., Local Econ. and Environmental Protection 1976-; mem. Presidium of Gen. Board, Polish-Soviet Friendship Soc. (TPPR) 1974-; mem. State Council March 1976-; numerous decorations incl. Order of Banner of Labour, First and Second Class, Grunwald cross, Third Class, Knight's Cross, Order of Polonia Restituta, Partisan Cross. *Address:* Kancelaria Rady Państwa PRL, ul. Wiejska 4/6/8, 00-489 Warsaw, Poland.

DUDINSKAYA, Natalya Mikhailovna; Soviet ballerina; b. 21 Aug. 1912, Kharkov, U.S.S.R.; d. of Mikhail Dudinskiy and Natalya Grippenberg; m. Konstantin Sergeyev 1947; ed. Leningrad School of Choreography; Prima Ballerina Kirov Academic Opera and Ballet Theatre, Leningrad; theatre coach in the Kirov Theatre 1951-; lecturer Vaganova Choreographical Inst., Leningrad 1964-; principal parts include all ballets by Tchaikovsky, Raimonda by Glazunov, Giselle, Les Sylphides, Don Quixote and The Bayadere by Mincous; has created leading roles in Laurencia by Krein, Gayane by Khachaturyan, Cinderella by Prokofiev, The Bronze Horseman by Gliere, Shuralé by Yarullin, the Polish Maiden in Taras Bulba by Soloviev-Sedoy 1956, Sarie in The Path of Thunder by Kara Karayev 1958, Baroness Strahl in The Masquerade by Laputin 1960, Titania in A Midsummer Night's Dream 1963, The Wicked Fairy in the film The Sleeping Beauty 1964, The Spanish Suite by Viana López Gerardo 1966, Miniature by Krein 1967, Pacquita 1968. Choreographic work (with K. Sergeyev): Hamlet 1970, Le Corsair 1973, The Left-Hander 1976, Beethoven Apassionata 1977; guest artist in many foreign countries; People's Artist of U.S.S.R.; State Prizewinner 1941, 1947, 1949, 1951; Order of Esteem 1939, Order Red Banner of Labour 1940, 1972, Medal for Defence of Leningrad and other decorations. *Leisure interests:* swimming, diving. *Address:* 2 Gogol Street, Apartment 13, Leningrad D-65, U.S.S.R. *Telephone:* 2147172.

DUDINTSEV, Vladimir Dmitriyevich; Soviet writer; b. 29 June 1918, Kupyansk, Ukraine; s. of Claudia and Dmitry Dudintsev; m. Natalia Gordeeva 1942; one s. three d.; ed. Moscow Legal Inst.; Soviet Army 1941-45; Feature Writer of Komsomolskaya Pravda 1946-51; mem. Union of Soviet Writers. *Publications:* With Seven Brothers (collected stories) 1952, In His Place 1954, Not By Bread Alone 1956, 1968, Tales and Stories 1959, A New Year's Tale 1960, Stories 1963; trans. Suvra Golovanivsky's Poplar on the other Bank 1967 and twenty other books 1957-74. *Leisure interest:* sailing. *Address:* Lomonosovsky Prospekt 19, KW 74, Moscow W311; U.S.S.R. Union of Writers, Ul. Vorovskogo 52, Moscow, U.S.S.R. *Telephone:* 130-21-68 (Home).

DUESENBERRY, James Stembel, B.A., M.A., PH.D.; American economist; b. 18 July 1918; ed. Univ. of Michigan; Teaching Fellow in Econs., Univ. of Michigan 1939-41; in U.S. Air Force 1942-45; Instructor, Mass. Inst. of Technology 1946; Teaching Fellow in Econs., Harvard Univ. 1946-48, Asst. Prof. of Econs. 1948-53, Assoc. Prof. 1953-57, Prof. 1957-; Fulbright Research Prof., Cambridge Univ. 1954-55; Ford Foundation Research Prof. 1958-59; Consultant, Cttee. of Econ. Devt. 1956; mem. President's Council of Econ. Advisers 1966-. *Publications:* Income, Saving and the Theory of Consumer Behavior 1949, Business Cycles and Economic Growth (with Lee Preston) 1958, Cases and Problems in Economics 1959, Money and Credit: Impact and Control 1964. *Address:* 25 Fairmont Street, Belmont, Mass., U.S.A.

DUFF, Sir (Arthur) Antony, K.C.M.G., C.V.O., D.S.O., D.S.C.; British diplomatist; b. 1920; Amb. to Nepal 1964-65; with Commonwealth Office and subsequently with F.C.O. 1965-69; Deputy High Commr., Kuala Lumpur 1969-72; High Commr. to Kenya 1972-75; Deputy Under-Sec. Foreign and Commonwealth Office 1975-77; Perm. Rep. to WEU 1977-78. *Address:* 30 Park Mansions, Prince of Wales Drive, London, S.W.11, England. *Telephone:* 01-720 2883.

DUFOURCQ, Norbert, D. ÈS L.; French musicologist and organist; b. 21 Sept. 1904, Saint Jean de Braye, Loiret; s. of Albert Dufourcq; m. Odette Latron 1926; one s. five d.; ed. Collège Stanislas and Lycée Henri IV, Paris, Sorbonne and Ecole Nationale des Chartes; teacher of History, Coll. Stanislas, Paris 1935-45; Prof. of History of Music and Musicology at Paris Conservatoire 1941-75; Organist Eglise Saint-Merry 1923-; Sec.-Gen., then Vice-Pres. of Soc. of Friends of Organ 1927-; mem. of Comm. for Historic Organs 1932–; Editor-in-Chief review L'Orgue 1929-; Prof. Sweet Briar Coll. (Paris) 1949-78; Pres. Société Française de Musicologie 1956-58; Prof. Ecole Normale de Musique de Paris 1958-63; Pres. Soc. de l'Ecole des Chartes 1975-76; Dir. Conservatoire Municipal du Luxembourg, Paris 1975-; in charge of course in Modern Western Civilization, Sorbonne; Dir. Orgue et Liturgie, les Grands Heures de l'Orgue, L'Orgue, Cahiers et Mémoires de l'Orgue; Lecturer, Jeunesses Musicales de France 1942-61; Visiting Prof., Univs. of Lisbon and Ottawa. *Publications:* Documents inédits relatifs à l'orgue français, XIVe-XVIIIe siècles 1934-35, Esquisse d'une histoire de l'orgue en France du XIIIe au XVIIIe siècles 1935, La musique d'orgue française de J. Titelouze à J. Alain 1941-49, Orgues comtadines et provençales, Les Clicquot, César Franck, Le Clavecin,

L'Orgue 1948, 5th edn. 1976, Petite histoire de la musique en Europe, Bach, génie allemand, génie latin?, Bach, le Maître de l'Orgue 1948-74, La musique française 1948, 2nd edn. 1970, Autour de Coquard, Nicolas Lebègue 1954, Notes et références . . . sur Michel R. Delalande 1957, Jean de Joyeuse et la pénétration de la facture parisienne dans le Midi de la France au XVIIe siècle 1958, J. B. de Boesset 1962, Le grand orgue du prytanée militaire de la flèche 1964, Le livre de l'orgue française, Vol. II: Le buffet 1969, Vol. I: Les sources 1971, Vol. IV: La musique 1972; César Franck et la genèse des premières oeuvres d'orgue 1973, Vol. III: La facture I 1975; La facture II 1978; preface to organ compositions of P. Dandrieu, G. Jullien, N. de Grigny, A. Raison, Clérembault, G. C. Nivers (3 vols.), F. Couperin (2 vols.), A. Dornel, M. Lanes, M. Corrette, A. Boely (6 vols.); Pièces de Clavecin de N. Lebègue 1957, L'orgue parisien sous le règne de Louis XIV 1957, Préfaces aux livres de clavecin de J. F. Dandrieu 1973; edited La musique, des origines à nos jours 1948, Histoire de France, Vol. I, Larousse de la Musique 1957-58 (2 vols.), La Vie musicale en France sous les Rois Bourbons (27 vols.), Recherches sur la musique classique française (17 vols.) 1960-78, musical section of Que Sais-Je? (40 vols.), La Musique, les Hommes, les Instruments, les Oeuvres 1965 (2 vols.); Gen. Editor Le lys d'or, Les neuf muses (30 vols.). *Leisure interests:* archaeology, travel. *Address:* 14 rue Cassette, 75006 Paris, France. *Telephone:* 222-53-29.

DUGERSUREN, Mangalyn; Mongolian diplomatist; b. 15 Feb. 1922, Galuut Somon, Bayanhonger Aymag (Province); ed. Inst. of International Relations, Moscow; schoolmaster 1941-44; studies in Moscow 1946-51; Deputy Head, later Head of Dept., Ministry of Foreign Affairs, Mongolia 1951-53; Sec. of Central Cttee. of Mongolian Revolutionary Youth League 1953-54; Deputy Minister of Justice 1954-56; Deputy Minister of Foreign Affairs 1956-58; Amb. to India 1958-62; First Deputy Minister of Foreign Affairs 1962-63, Minister of Foreign Affairs 1963-68; Perm. Rep. to UN 1968-72; Perm. Rep., UN Office at Geneva and other int. orgs. 1972-76, Minister for Foreign Affairs 1976-; mem. Central Cttee. of Mongolian People's Revolutionary Party; Deputy to People's Great Hural (Parl.). *Address:* Ministry of Foreign Affairs, Ulan Bator, Mongolia.

DUISENBERG, Willem Frederik, D.ECONS.; Netherlands economist; b. 9 July 1935, Heerenveen; m. Tine Stelling 1960; two s. one d.; ed. State Univ. of Groningen; Scientific Asst., State Univ., Groningen 1961-65; with Int. Monetary Fund 1966-69; Special Adviser De Nederlandsche Bank N.V. 1969-70; Prof. of Macroecons., Univ. of Amsterdam 1970-73; Minister of Finance 1973-77; Chair. Centrale Rabobank Jan. 1979-. *Publications:* Economic Consequences of Disarmament 1965, The IMF and the International Monetary System 1966, The British Balance of Payments 1969, Some Remarks on Imported Inflation 1970. *Leisure interests:* sailing, tennis, photography. *Address:* Gentsestraat 108, Scheveningen, Netherlands (Home). *Telephone:* 070-555988.

DUKAKIS, Michael S.; American politician; b. 3 Nov. 1933, Brookline, Mass.; s. of Dr. Panos Dukakis and Euterpe Dukakis; m. Katharine Dickson; one s. two d.; ed. Brookline High School, Swarthmore Coll., Harvard Law School. Army service in Korea 1955-57; mem. Town Meeting, Brookline 1959, Chair. Town Cttee. 1960-62; alt. Del. Democratic Nat. Convention 1968; mem. Mass. House of Reps. for Brookline 1962-70, later Chair. Cttee. on Public Service and mem. Special Comm. on Low Income Housing; founded a research group for public information 1970; moderator of television public affairs debate programme The Advocates; Gov. of Massachusetts 1975-79. *Address:* c/o State House, Boston, Mass. 02133, U.S.A. *Telephone:* (617) 727-3600.

DUKE, Angier Biddle; American diplomatist; b. 30 Nov. 1915, New York City; s. of Cordelia Drexel Biddle and Angier B. Duke; m. Robin Chandler Lynn 1962; three s. one d.; ed. St. Paul's School, Concord, N.H., and Yale Univ.; Maj. U.S. Army Air Force, Second World War; entered American Foreign Service 1949, Sec. and Consul, Buenos Aires 1949-51; Special Asst. to Stanton Griffis, Amb. in Madrid 1951-52; Amb. to El Salvador 1952-53; Pres. Int. Rescue Cttee. 1954-61; Vice-Pres. CARE 1955-58; Chair. Exec. Cttee. American Friends of Viet-Nam 1957-60; Chief of Protocol, Dept. of State, Washington, D.C. 1961-65, and Chief of Protocol for White House with rank of Amb. 1961-65, 1968; Amb. to Spain 1965-68, to Denmark 1968-69; Commr. of Civic Affairs, New York 1974-77; Pres., Spanish Inst., New York 1977-; Pres. American Immigration and Citizenship Conf. 1959-64; Chair. New York State Council on Ethnic Affairs 1978-; Trustee, Inst. for American Univs., Aix-en-Provence, France, Westminster Coll., Fulton, Mo.; Hon. C.B.E., Commdr. Nat. Order of Viet-Nam, Grand Cross of Merit of Order of Malta (Austria), Order of Honour and Merit (Haiti), Commdr. Order of George I (Greece) and numerous other foreign decorations. Hon. L.H.D. (Long Island Univ.), Hon. LL.D. (Iona Coll, Duke Univ.). *Leisure interests:* skiing, golf. *Address:* 684 Park Avenue, New York, N.Y. 10021 (Office); 435 East 52nd Street, New York, N.Y. 10022, U.S.A. (Home).

DULBECCO, Renato; American virologist; b. 22 Feb. 1914, Cantanzaro, Italy; s. of Leonardo and Maria Dulbecco; m. 1st Guiseppina Salva 1940 (divorced 1963); m. 2nd Maureen Muir 1963; one s. two d.; ed. Università degli Studi, Turin; Asst. Prof. of Pathology, Univ. of Turin 1940-46, of Experimental Embryology 1947; Research Assoc. Dept. of Bacteriology, Indiana Univ. 1947-49; Senior Research Fellow Calif. Inst. of Tech. 1949-52, Assoc. Prof. 1952-53, Prof. 1954-63; Senior Fellow, Salk Inst. for Biological Studies 1963-72; Asst. Dir. of Research, Imperial Cancer Research Fund Labs. (London) 1972-74, Deputy Dir. March 1974-76; Distinguished Research Prof., Salk Institute for Biological Studies and Prof. of Pathology and Medicine, Univ. of California 1976-; mem. American Assen. for Cancer Research; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Foreign mem. Royal Soc., London 1974; Accademia Nazionale dei Lincei; Hon. mem. Accademia Ligure di Scienze e Lettere; Hon. LL.D. (Glasgow) 1970, Hon. D.Sc. (Yale) 1968; several awards, including Ehrlich Prize, Ludovic Gross Horwitz Prize 1973, Selman A. Waksman Award in Microbiology, Nat. Acad. of Sciences, U.S.A. 1974, Nobel Prize in Medicine (Physiology) 1975. *Address:* The Salk Institute, 10010 North Torrey Pines Road, La Jolla, Calif. 90327 (Office); 7525 Hillside Drive, La Jolla, Calif., U.S.A. (Home).

DULTZIN, Leib (Leon Aryeh); Israeli business executive; b. 31 March 1913, Minsk, Russia; m. Annette Gutman Hanow 1962; one s. (by previous marriage), one d.; lived in Mexico 1928-56, Israel 1965-; mem. of the exec. Jewish Agency, Treas. 1968-78, Chair. Exec. Cttee. 1973-74, 1978-; Minister without Portfolio, Govt. of Israel 1970-73; Gov. Pal Land Devt. Co. Ltd., Bank Leumi Le Israel; Dir. Rassco Ltd., Yakhim Hakal Co. Ltd., Otzar Hataasiya; mem. World Directorate, Keren Hayesod; mem. Exec. Likud Party; mem. of numerous Zionist orgs. *Address:* The Jewish Agency for Israel, P.O. Box 92, Jerusalem; and 11 Mapu Street, Tel-Aviv, Israel.

DUMAS, Pierre, L. ÈS D.; French politician; b. 15 Nov. 1924; ed. Ecole Libre des Sciences Politiques; Sales Man. Box Co., La Rochette; Deputy 1958-62, 1967, 1968, 1969-73; Sec. of State for Public Works April-Oct. 1962, Sec. of State for Relations with Parl., responsible for Tourism 1962-67; Sec. of State to Prime Minister, in charge of Tourism 1967-68; Sec. of State for Social Affairs 1968-69; Pres. Soc. française pour le Tunnel Routier du Fréjus; Pres. Conseil d'Admin., Office National des Forêts; Rassemblement pour la République. *Address:* 17 rue de Boigne, 73 Chambéry, France (Home).

DU MAURIER, Dame Daphne (Lady Browning), D.B.E.; British writer; b. 13 May 1907; d. of Sir Gerald du Maurier and Muriel Beaumont; m. Sir Frederick Browning 1932 (died 1965); one s. two d.; ed. privately, Paris. *Publications:* The Loving Spirit 1931, I'll Never be Young Again 1932, The Progress of Julius 1933, Gerald, a Portrait 1934, Jamaica Inn 1936, The du Mauriers 1937, Rebecca 1938, Frenchman's Creek 1941, Hungry Hill 1943, The Years Between (play) 1945, The King's General 1946, September Tide (play) 1948, The Parasites 1949, My Cousin Rachel 1951, The Apple Tree 1952, Mary Anne 1954, The Scapegoat 1957, The Breaking Point 1959, The Infernal World of Branwell Brontë 1960, Castle Dor (continuation of MS. left by late Sir A. Quiller-Couch) 1962, The Glass-Blowers 1963, Flight of the Falcon 1964, Vanishing Cornwall 1967, The House on the Strand 1969, Not After Midnight 1971, Rule Britannia 1972, Golden Lads 1975, The Winding Stair: Francis Bacon, His Rise and Fall 1976, Growing Pains (autobiography) 1977 (title Myself When Young in U.S.A.). *Leisure interests:* walking, swimming. *Address:* Kilmarth, Par, Cornwall, England. *Telephone:* Par 2706.

DUMINY, Jacobus Petrus, B.SC., M.A.; South African university professor and administrator; b. 16 Dec. 1897, Bellville, Cape; s. of J. A. Duminy and Maria Zeederberg; m. Gwendoline Ellen Finnemore 1930; two s. one d.; ed. Cape Town Univ., Oxford Univ., and Univ. of Paris; Prof. of Mathematics, Univ. of Pretoria 1930-42; Principal, Pretoria Technical Coll. 1942-58; Principal and Vice-Chancellor, Univ. of Cape Town 1958-67; Pres. S.A. Assen. for the Advancement of Science 1962; First Vice-Pres. Rotary International 1969-70; Hon. LL.D. (Natal, Rhodes, Cape Town); Commdr. Order of St. John. *Leisure interests:* music, art appreciation, Rotary, reading, writing, travel, tennis, gardening. *Address:* The Cotswolds, Kenilworth, Cape 7700, South Africa. *Telephone:* 71-0507.

DUMITRIU, Petru; Romanian novelist and essayist; b. 8 May 1924, Bazias, Romania; s. of the late Lt.-Col. Petre Dumitriu and

Theresia von Debretzy; m. Irene Medrea 1955; two d.; ed. Ludwig-Maximilians-Universität, Munich. Chief Editor Viata Romaneasca (literary monthly), Bucharest 1953-55; Man. State Publishing House for Literature and Art, Bucharest 1955-58; Chair. Council of Publishing Houses, Ministry of Culture, Bucharest 1958-60; in W. Europe 1960-; Editor, S. Fischer Verlag, Frankfurt am Main, Federal Repub. of Germany 1963-67, Romanian State Prize for Literature 1949, 1952, 1956, Star of the Republic, Order of Labour, etc. (Romania). *Publications:* Novels: The Boyars (3 vols., Romanian) 1956, Meeting at the Last Judgement 1961, Incognito 1962, The Extreme Occident 1964, Die Transmoderne (essay, German) 1965, Les initiés (French) 1965, The Sardinian Smile 1967, L'Homme aux yeux gris (French) 1968, Retour à Milo (French) 1969, Le beau voyage (French) 1969. *Address:* Seilerstrasse 12, Frankfurt am Main, Federal Republic of Germany. *Telephone:* Frankfurt 29 12 14.

DUMONT, René; French agronomist; b. 13 March 1904, Cambrai; s. of Rémy Dumont; m. Suzanne Philippon 1928; one d.; ed. Institut National Agronomique, Ecole Supérieure d'Agriculture Tropicale; adviser in agronomy, rural economy and agricultural planning to numerous govts. throughout the world, to UN, UNESCO, FAO, etc.; Prof. of Agriculture, Inst. Nat. Agronomique 1933-74; candidate, French Presidential election 1974. *Publications:* 28 works including: Terres vivantes 1961, L'Afrique noire est mal partie 1962, Nous allons à la famine 1966, Développement et socialisme 1969, Cuba, est-il socialiste? 1970, Paysanneries aux abois 1972, L'utopie ou la mort 1973, Agronome de la faim 1974, La croissance de la famine 1975, La Chine, Révolution culturale 1976, Nouveaux voyages en France 1977. *Leisure interests:* antiques, painting, wife. *Address:* 2 avenue Roosevelt, 94 Fontenay-sous-Bois, France. *Telephone:* TRE-46-85.

DUNANT, Yves, DR.CHEM.; Swiss chemicals and pharmaceuticals executive; b. 8 Sept. 1912, Emmen; s. of Georges Dunant and Denyse (née Schumacher); m. 1st Chantal de Rivoyre 1949 (deceased), 2nd Claudine Guyonnet 1974; two d.; ed. Eidgenössische Technische Hochschule, Zürich, Inst. Pasteur, Univ. of Paris; joined Sandoz Ltd., Basel 1938; Asst. mem. Board of Man. Laboratoires Sandoz, Paris 1946, mem. Board of Man. 1948; Head of Marketing Dept. of Pharmaceutical Div., Sandoz Ltd. 1963, Head of Pharmaceutical Div., mem. Exec. Cttee. 1967, Man. Dir. 1969, Vice-Chair. and Man. Dir. 1973-76, Chair. and Man. Dir. 1976-. *Leisure interests:* travel, modern art, literature, music, sports. *Address:* Sandoz Ltd., CH-4002 Basel (Office); 51 Rennweg, CH-4052 Basel, Switzerland (Home). *Telephone:* 43 95 53 (Office); 42 94 83 (Home).

DUNAWAY, Faye; American actress, b. (as Dorothy Faye) 14 Jan. 1941, Bascom, Florida; d. of John and Grace Dunaway; m. Peter Wolf 1974; ed. Univs. of Florida and Boston; spent three years with Lincoln Center Repertory Co. in New york, appearing in A Man For All Seasons, After the Fall and Tartuffe; Off-Broadway in Hogan's Goat 1965; appeared at the Mark Taper Forum, L.A. in Old Times, as Blanche du Bois in A Streetcar Named Desire 1973; films include: Hurry Sundown 1967, The Happening 1967, Bonnie and Clyde 1967, The Thomas Crown Affair 1968, A Place For Lovers 1969, The Arrangement 1969, Little Big Man 1970, Doc 1971, The Getaway 1972, Oklahoma Crude 1973, The Three Musketeers 1973, Chinatown 1974, Three Days of the Condor 1975, The Towering Inferno 1976, Voyage of the Damned 1976, Network 1976, The Eyes of Laura Mars 1978; Television includes: After the Fall 1974, The Disappearance of Aimee 1976, Hogan's Goat; Academy Award Best Actress for Network. *Address:* Creative Management Associates, 8899 Beverly Boulevard, Los Angeles, Calif. U.S.A.

DUNCAN, Admiral Charles Kenney; American naval officer; b. 7 Dec. 1911, Nicholasville, Kentucky; s. of late Charles W. Duncan and late May Kenney; m. Sheila A. Taylor 1941; ed. Univ. of Kentucky, U.S. Naval Acad. and Armed Forces Staff Coll. Exec. Officer, U.S.S. Hutchins 1942; Commdg. Officer U.S.S. Wilson 1943; Dir. of Naval Officer Procurement, Bureau of Naval Personnel 1944; Exec. Officer, U.S.S. Wisconsin 1946; Commdr. Destroyer Div. 62, 1951; Admin Aide to chief of Naval Personnel 1953; Commdg. Officer, U.S.S. Chilton 1955; Commdr. Amphibious Group One 1958, Amphibious Training Command, Pacific 1959; Commdr. Naval Base, Subic Bay, Philippines 1961; Asst. Chief of Naval Personnel 1962; Commdr. Cruiser-Destroyer Force Atlantic 1964, Amphibious Force Atlantic 1965, Second Fleet and NATO Striking Fleet Atlantic 1967; Chief of Naval Personnel and Deputy Chief of Naval Operations (Manpower and Naval Reserve) 1968; C.-in-C. Atlantic 1970-72; C.-in-C. U.S. Atlantic Fleet 1970-72; Supreme Allied Commdr. Atlantic 1970-72; C.-in-C. W. Atlantic Area 1970-72; mem. Sec. Navy's Advisory Board on Educ. and Training 1976–; Distinguished Service Medal, Legion of Merit, Grand Cross of Order of Orange-Nassau, and many other awards. *Address:* 813 First Street, Coronado, Calif. 92118, U.S.A.

DUNCAN, Charles William, Jr.; American government official and former company executive; b. 9 Sept. 1926, Houston, Tex.; s. of Charles William and Mary Lillian (née House) Duncan; m. Anne Smith; one s. one d.; ed. Rice Univ., Univ. of Texas; served U.S.A.A.F. 1944-46; Humble Oil and Refining Co.; Duncan Foods Co. (absorbed by Coca-Cola Co. 1958), rising to Pres.; joined Coca-Cola Co. 1958; Chair. Coca-Cola Co. in Europe 1967-70; Exec. Vice-Pres. Coca-Cola Co. 1970-71, Pres. 1971-74; U.S. Deputy Sec. of Defense Jan. 1977-; Dir. of several cos.; Trustee, Emory Univ.; served Atlanta Forum. *Leisure interests:* tennis, hunting, fishing, ranch. *Address:* Department of Defense, The Pentagon, Washington, D.C. 20301, U.S.A.

DUNCAN, John Spenser Ritchie, C.M.G., M.B.E., M.A.; British diplomatist; b. 26 July 1921, Glencarse, Scotland; s. of late Rev. J. H. Duncan, D.D., and Sophia Playfair Ritchie; m. Sheila Grace Fullarton Conacher, D.R.C.O.G. 1950; one d.; ed. George Watson's Boys' Coll., Glasgow Acad., Dundee High School, Edinburgh Univ. Sudan Political Service 1941-56; Deputy Dir.-Gen. British Information Services, U.S.A. 1959-63; Consul-Gen. Muscat 1963-65; Head of Personnel, Foreign and Commonwealth Office 1965-69; Minister, Canberra 1969-71; High Commr. in Zambia 1971-74; Amb. to Morocco 1975-78; High Commr. in Bahamas 1978-. *Publications:* The Sudan: A Record of Achievement 1952, The Sudan's Path to Independence 1957. *Leisure interests:* golf, music. *Address:* c/o Foreign and Commonwealth Office, King Charles Street, London, SW1A 2AH, England.

DUNCAN, Ronald, M.A.; British poet and playwright; b. 6 Aug. 1914, Salisbury, Rhodesia; s. of Reginald John and Ethel Duncan; m. Rose Marie Theresa Hansom 1940; one s. one d.; ed. Switzerland and Cambridge Univ.; founded English Stage Co. with George Devine 1956. *Publications:* The Dull Ass's Hoof 1941, Postcards to Pulcenella 1942, Journal of a Husbandman 1944, This Way to the Tomb 1946, The Rape of Lucretia 1946, Home Made Home 1947, Ben Jonson 1947, Songs and Satires of the Earl of Rochester 1948, Stratton 1948, Jan's Journal 1948, Tobacco Cultivation in England 1948, The Typewriter 1948, Beauty and the Beast 1948, The Cardinal 1949, The Mongrel and Other Poems 1950, Our Lady's Tumbler 1951, Selected Writings of Mahatma Gandhi 1961, The Blue Fox 1951, Jan at the Blue Fox 1952, The Last Adam 1952, Where I Live 1953, Don Juan 1954, The Death of Satan 1955, The Catalyst 1957, Christopher Sly 1959, The Solitudes 1960, Blind Man's Buff, Saint Spiv 1960, Judas 1960, Abelard and Heloïse 1960, The Rabbit Race 1963, All Men are Islands (autobiog. Vol. I) 1964, O-B-A-F-G 1965, The Rebel 1965, The Trojan Women 1966, How to Make Enemies (autobiog. Vol. II) 1968, The Perfect Mistress 1969, Unpopular Poems 1969, Man (Parts I-V) 1970-74, The Gift 1970, Collected Plays 1970, A Kettle of Fish 1971, Dante's De Vulgari Eloquentia 1973, The Tale of Tails 1975, The Encyclopedia of Ignorance 1977, Obsessed for the Few (autobiog.) 1977, Mr. and Mrs. Mouse 1977, Nothing to Declare (4 vols. autobiog.) 1978, Benjamin Britten 1978, The Ward 1978, Selected Poems 1978, Encyclopaedia of Ignorance (2 vols.) 1978, Auschwitz 1979, Collected Poems 1979. *Address:* Mead Farm, Welcombe, Nr. Bideford, Devon, England. *Telephone:* Morwenstow (028-883) 375 and 215.

DUNCAN, William Barr McKinnon, C.B.E., B.SC.; British company executive; b. 16 Dec. 1922, Glasgow; s. of George Leopold Duncan; m. Christina Boyd Worth 1951; one s. two d.; ed. Ardrossan Acad. and Royal Tech. Coll., Glasgow. Pres. and Chief Exec., ICI North America Ltd. 1970-, Chair. 1972-74; Chair. ICI Americas Inc. 1970-; mem. Board of Dirs., ICI Ltd., London 1971-, Tech. Dir. 1974-75, Commercial Dir. 1975-76, Deputy Chair. Jan. 1977-. *Leisure interests:* golf, tennis, bridge. *Address:* Imperial Chemical Industries Limited, Imperial Chemical House, Millbank, London, SW1P 3JF, England. *Telephone:* 01-834 4444.

DUNCAN-SANDYS, Baron (Life Peer), cr. 1974; **Duncan Edwin Duncan-Sandys,** P.C., C.H.; British politician; b. (as Duncan Edwin Sandys) 24 Jan. 1908; s. of Capt. George and Mildred (Cameron) Sandys; m. 1st Diana Churchill, d. of the late Rt. Hon. Sir Winston Churchill, 1935 (dissolved 1960), one s. two d.; m. 2nd Marie-Claire Schmitt 1962, one d.; ed. Eton and Magdalen Coll., Oxford. Diplomatic Service 1930-33; served at Foreign Office and British Embassy, Berlin; M.P. (Conservative) for Norwood Div. of Lambeth 1935-45, for Streatham Div. of Lambeth 1950-74; Lieut. Territorial Army 1937; political columnist, Sunday Chronicle 1937-39; mem. Conservative Party Nat. Exec. 1938-39; served in Norway 1940; Lieut.-Col. 1941; disabled on active service 1941; Finance mem. of Army Council 1941-43; Parl. Sec. to Ministry of Supply

1943-44; Chair. of Cabinet Cttee. for defence against German "V" weapons 1943-45; Minister of Works 1944-45; founded European Movement 1947, Chair. Int. Exec. 1948-50, Chair. Parl. Council 1950-51, 1968-70; mem. Parl. Assembly of Council of Europe 1950-51, 1965-; mem. Gen. Advisory Council of BBC 1947-51; Dir. Ashanti Goldfields Corpn. 1947-51, 1966-72; Minister of Supply 1951-54; Minister of Housing and Local Govt. 1954-57; Minister of Defence 1957-59; Minister of Aviation 1959-60; Sec. of State for Commonwealth Relations 1960-62, Sec. of State for Commonwealth Relations and Sec. of State for Colonies 1962-64; Founder Civic Trust, Pres. 1956-; Chair. Lonhro Ltd. 1972-; Pres. Europa Nostra 1969–; mem. WEU Assembly; Joint Pres. Franco-British Council 1972-; Chair. Int. Org. Cttee. for Architectural Heritage Year 1975; Hon. Fellow, Royal Inst. of British Architects; Hon. mem. Royal Town Planning Inst.; Grand Cross of the Order of Merit of Italy, Medal of City of Paris 1974, Order of Sultanate of Brunei 1974, Gold Cup of European Movement 1975, Goethe Gold Medal of Hamburg Foundation 1975, Grand Cross of Order of Crown of Belgium 1975. *Leisure interest:* abstract painting. *Address:* 86 Vincent Square, London, SW1P 2PG, England. *Telephone:* 01-834 5886.

DUNCKEL, Wallis Bleecker, B.A.; American banker; b. 9 May 1901, New York; s. of Dr. Walter Adams Dunckel and Amalie Jean Inglis Young; m. Margaret Lindsay Sutherland 1928; two s. one d.; ed. Trinity School, New York City, and Yale Univ.; joined Bankers Trust Co. 1923, Head, Pension Div. 1938-57, mem. Senior Management 1957-60, Pres. and Dir. 1960-66; Pres. BT New York Corpn. (now Bankers Trust New York Corpn.) 1966-68, Dir. 1966-74; Dir. American Bank Note Co. *Address:* 320 Valley Road, Easton, Conn. 06612, U.S.A.

DUNDEE, 11th Earl of, cr. 1660 (Scot.), **Henry James Scrymgeour-Wedderburn,** P.C., J.P., D.L., LL.D.; British politician; b. 3 May 1902; ed. Winchester and Balliol Coll. Oxford. Pres., Oxford Union 1924; M.P. 1931-45; Parl. Under-Sec. of State for Scotland 1936-39; Additional Parl. Under-Sec. of State, Scottish Office 1941-42; Minister without Portfolio 1958-61; Minister of State for Foreign Affairs 1961-64; Deputy Leader House of Lords 1962-64; Hereditary Royal Standard Bearer for Scotland; Hon. LL.D. (St. Andrews); Conservative. *Address:* Birkhill, Cupar, Fife, Scotland.

DUNHAM, Katherine; American dancer and choreographer; ed. Chicago and Northwestern Univs.; debut, Chicago World's Fair 1934; with Chicago Opera Co. 1935-36; Julius Rosenwald Travel Fellowship 1936-37; Dance Dir. Labor Stage 1939-40; has appeared in numerous films 1941-; founded Katherine Dunham School of Cultural Arts and Katherine Dunham Dance Co. 1945; numerous tours and personal appearances in North and South America and Europe. *Publications:* Journey to Accompong, Form and Function in Primitive Dance, Form and Function in Educational Dance, etc. *Address:* c/o Performing Arts Training Center, St. Louis, Ill. 62201, U.S.A.

DUNHAM, Sir Kingsley C., Kt., PH.D., F.R.S., F.ENG., F.R.S.E., D.SC., M.S., S.D.; British geologist; b. 2 Jan. 1910, Sturminster Newton, Dorset; s. of Ernest Pedder and Edith Agnes Dunham; m. Margaret Young 1936; one s.; ed. Johnston School, Durham, Univ. of Durham and Harvard Univ. Temp. Geologist, New Mexico Bureau Mines 1935; Geologist, Geological Survey of Great Britain 1935-45, Head of Petrographical Dept. 1946-50; Prof. of Geology and Head of Dept. Univ. of Durham 1950-66, Prof. Emer. 1968, Sub-Warden 1959-61; Consulting Geologist, Laporte Industries Ltd. 1953-66, Consolidated Gold Fields Ltd. 1954-66; Geological Adviser Imperial Chemical Industries Ltd. 1961-66; Dir. Inst. of Geological Sciences (Natural Environment Research Council) 1966-75; Chair. Council for Environmental Science and Engineering 1972-75; Pres. Yorks. Geological Soc. 1958-60, British Assen. for the Advancement of Science (Section C 1961, Assen. 1972-73), Inst. of Mining and Metallurgy 1963-64, Geological Soc. of London 1966-68, Int. Union of Geological Sciences 1969-72, Mineralogical Society 1976-78; mem. Council, Royal Soc. 1964-66, Foreign Sec., Vice-Pres. 1971-76; Chair. Int. Geological Correlation Project of IUGS/UNESCO 1972-76; mem. Council for Scientific Policy, Dept. of Educ. and Science 1964-66; U.K. mem. Council Int. Inst. for Applied Systems Analysis 1973-77, Hon. Scholar 1977; Fellow of Imperial Coll. 1976, D.Sc. h.c. (Durham, Liverpool, Birmingham, Illinois, Leicester, Michigan, Kent, Edinburgh, Exeter, Hull), Hon. Sc.D. (Cambridge); Bigsby Medal of Geological Soc. 1954, Gold Medal of Inst. of Mining and Metallurgy 1968, Murchison Medal of Geological Soc. 1966, Royal Medal of the Royal Soc. 1970, Wollaston Medal 1976. *Publications:* Geology of the Organ Mountains of New Mexico 1936, Geology of the Northern Pennine Orefield 1949, Fluorspar 1952, Geology of North Skye (with F. W. Anderson) 1966; Editor Symposium on the Paragenesis and Reserves of the Ores of Lead and Zinc 1948. *Leisure interests:* music (piano, organ, opera, ballet), gardening. *Address:* Charleycroft, Quarryheads Lane, Durham, DH1 3DY, England. *Telephone:* (0385) 3977.

DUNLOP, John T., A.B., PH.D., LL.D.; American economist and industrial relations expert; b. 5 July 1914, Placerville, Calif.; s. of John and Antonia Dunlop (née Forni); m. Dorothy Webb 1937; two s. one d.; ed. Univs. of California and Chicago. Instructor Harvard Univ. 1938, Assoc. Prof. 1945, Chair. Wertheim Cttee. on Industrial Relations 1945-, Prof. 1950-, Chair. Dept. of Econs. 1961-66, Dean Faculty of Arts and Sciences 1970-73; Chair. Board for Settlement of Jurisdictional Disputes 1948-57; mem. Atomic Energy Labor Relations Panel 1948-53; mem. Sec. Labor's Advisory Cttee. on Labor-Management Relations in Atomic Energy Installations 1954-57; mem. Kaiser Steelworkers' Commission 1960-68, Presidential Railroad Workers' Commission 1960-68, Presidential Railroad Comm. 1960-62, Missiles Sites Labor Comm. 1961-67; Chair. Nat. Manpower Policy Task Force 1968-69; mem. President's Nat. Comm. on Productivity 1970-73, Chair. 1973-; Chair. Manpower Inst. 1970-; Dir. Cost of Living Council 1973-74; Co-ordinator President's Labor-Management Cttee. 1974-; U.S. Sec. of Labor 1975-76; Chair. Construction Industry Joint Conf. 1959-68; mem. Construction Industry Collective Bargaining Comm. 1969-; Chair. Construction Industry Stabilization Ctte. 1971-73, mem. 1973-74; Pres. Industrial Relations Research Assen. 1960, Int. Industrial Relations Research Assen. 1973-76; mem. American Acad. of Arts and Sciences, American Philosophical Soc.; Louis K. Comstock Award, Nat. Electrical Contractors' Assen. 1974. *Publications:* Wage Determination under Trade Unions 1944, Cost Behaviour and Price Policy 1944, Collective Bargaining: Principles and Cases (with James J. Healy) 1949, The Wage Adjustment Board (with Arthur D. Hill) 1950, The Theory of Wage Determination (Editor) 1957, Industrial Relations Systems 1958, Industrialism and Industrial Man 1960, Potentials of the American Economy (Editor) 1961, Economic Growth in the United States (Editor) 1961, Automation and Technological Change (Editor) 1962, Frontiers of Collective Bargaining (Editor) 1967, Labor and the American Community (with Derek Bok) 1970, Inflation and Incomes Policies: the Political Economy of Recent U.S. Experience 1974, Industrialism and Industrial Man Reconsidered 1975, The Lessons of Wage and Price Controls—The Food Sector 1978. *Address:* 509 Pleasant Street, Belmont, Mass. 02178, U.S.A. (Home).

DUNLOP, Sir John Wallace, K.B.E.; Australian company director; b. 1910; ed. Geelong Grammar School (Australia). Chair. CSR Ltd. 1977, Edwards Dunlop and Co. Ltd.; Dir. Australian Industry Devt. Corpn., Rothmans of Pall Mall (Australia) Ltd., Lansing Australia Pty. Ltd.; Senior advisor in Australia, Banque de Paris et des Pays-Bas. *Address:* 275 George Street, Sydney, N.S.W. 2000, Australia. *Telephone:* 2-0222.

DUNN, Halbert Louis, M.D., M.A., PH.D.; American statistician; b. 17 May 1896, New Paris, Ohio; s. of Louis and Irene (Halbert) Dunn; m. 1st Katherine Brandner 1920, three s.; m. 2nd Elizabeth Phelps 1941; ed. Univ. of Minnesota. Instructor of Anatomy, Univ. of Minn. 1922-23; Asst. in Medicine, Presbyterian Hospital, New York 1923-24; Fellow in Medicine, Mayo Clinic, Rochester, Minn. 1924-25; Assoc. Prof., Johns Hopkins Univ. 1925-29; Head, Dept. of Statistics, Mayo Clinic 1929-32; Dir. Univ. Hospital and Prof. of Medical Statistics, Univ. of Minn. 1932-53; Chief Statistician and Chief of Vital Statistics Div., Bureau of the Census, Dept. of Commerce, Washington 1935-46; Chief of Nat. Office of Vital Statistics, Dept. of Health, Education and Welfare 1946-60, Special Asst. on Ageing, U.S. Public Health Service 1960-61; Sec.-Treas. Public Health Conf. on Records and Statistics 1949-58, Chair. 1958-60; Charter mem. Inter-American Statistical Inst. 1940-, Sec.-Gen. 1942-52, Consultant to its Exec. Cttee. 1952-54, Hon. Pres. 1955-; Consultant and Lect. High-Level Wellness 1962-, Consultant on Ageing U.S. Office of Educ. 1962-66; Fellow, American Public Health Assen., American Statistical Assen., American Assen. for the Advancement of Science. *Publications:* Creative Destiny, Your World and Mine, High Level Wellness, Positive Health, Man and the Environment, and numerous articles. *Leisure interest:* music (library of tape recordings). *Address:* 3637 Edelmar Terrace, Rossmoor Silver Spring, Md. 20906, U.S.A. *Telephone:* (301) 598-6221.

DUNNETT, Alastair MacTavish; British journalist; b. 26 Dec. 1908, Kilmacolm; s. of David Sinclair Dunnett and Isabella Crawford MacTavish; m. Dorothy Halliday 1946; two s.; ed. Overnewton School and Hillhead High School, Glasgow; entered Commercial Bank of Scotland Ltd. 1925; co-founder, The Claymore Press 1933-34; with Glasgow Weekly Herald 1935-36, The Bulletin 1936-37, Daily Record 1937-40; Chief Press Officer, Sec. of State for Scotland 1940-46; Editor Daily Record 1946-55, The Scotsman 1956-72; Man. Dir. Scotsman Publications Ltd. 1962-70, Chair. 1970-74; Chair. Thomson Scottish Petroleum Ltd., Edinburgh 1972-; mem. Exec.

Board Thomson Org. Ltd. 1973-78; Dir. Scottish Television 1975–; Gov. Pitlochry Festival Theatre; mem. Press Council 1959-62; mem. Scottish Tourist Board 1962-70; mem. Council of Nat. Trust for Scotland 1962-70; mem. Scottish Int. Educ. Trust, Scottish Int. Information Cttee., Scottish Theatre Ballet Cttee., Scottish Opera Cttee; Hon. LL.D. (Strathclyde) 1978. *Publications:* Treasure at Sonnach 1935, Heard Tell 1946, Quest by Canoe 1950, Highlands and Islands of Scotland 1951, No Thanks to the Duke 1978; Plays: The Original John Mackay 1956, Fit to Print 1962. *Leisure interests:* sailing, riding, walking. *Address:* Thomson Scottish Petroleum Ltd., 17 Charlotte Square, Edinburgh EH2 4DJ (Office); 87 Colinton Road, Edinburgh EH10 5DF, Scotland (Home). *Telephone:* 031-225 4285 (Office); 031-337 2107 (Home).

DUNPHY, John Englebert, M.D.; American surgeon and physician; b. 31 March 1908, Northampton, Mass.; s. of Dr. M. M. Dunphy and Kathryn Duggan; m. Nancy S. Stevenson 1936; one s. three d.; ed. Coll. of the Holy Cross, Harvard Medical School. Peter Bent Brigham Hosp. 1933-59, Surgeon 1949-57, Assoc. Staff 1959; Harvard Medical School 1936-59, Asst. Prof. 1947-50, Clinical Prof. 1953-55, Prof. 1955-59; Mil. Service 1940-46, Medical Corps 1940-45 (Lt.-Col. 1944), Consultant Oise Intermediate Section E.T.O. 1945; Chief Consultant in Surgery for Veterans' Admin., New England area 1946-59; Consultant to the Surgeon-Gen., Educ. and Training Div., Dept. of the Army 1954-, mem. Advisory Cttee. on Trauma 1970-; Dir. Fifth Surgical Service and Sears Surgical Laboratory, Boston City Hosp. 1955-59; Surgeon, New England Deaconess Hosp. 1956-59; Kenneth A. J. Mackenzie Prof. of Surgery and Chair. of Dept., Univ. of Ore. Medical School 1956-64; Prof. of Surgery and Chair. of Dept., Univ. of Calif. School of Medicine 1964-75; now Assoc. Chief of Staff for Educ., Veterans Admin. Hosp.; Pres. Lahey Clinic Foundation, Soc. of Univ. Surgeons, American Surgical Assen., American Coll. of Surgeons, Soc. for Surgery of the Alimentary Tract; Chair. Board of Regents American Coll. of Surgeons, American Board of Surgery; mem. American Acad. of Arts and Sciences, A.A.A.S., A.M.A., Assen. of Surgeons of Great Britain and Ireland, Soc. Int. de Chirurgie, Royal Soc. of Medicine and many other assens.; mem. editorial board Annals of Surgery, American Journal of Surgery, Journal of Surgical Research, Cancer, California Medicine; many hon. fellowships and memberships; many lectureships and visiting professorships; seven hon. degrees. *Publications:* about 300 articles in journals; co-author Physical Examination of the Surgical Patient (4th edn.) 1974, co-author Current Surgical Diagnosis and Treatment (3rd edn.) 1977, Co-author Surgery of the Liver and Bile Ducts 1978, co-editor Fundamentals of Wound Management in Surgery 1978. *Leisure interests:* tennis, travel. *Address:* Veterans' Administration Hospital, 4150 Clement Street, San Francisco, Calif. 94121 (Office); 2821 Steiner Street, San Francisco, Calif. 94123, U.S.A. (Home). *Telephone:* (415) 221-4810, Ext. 613 (Office); (415) 931-9510 (Home).

DUNSHEATH, Percy, C.B.E., M.A., D.SC.(ENG.), D.ENG., LL.D., M.I.E.E.; British engineer; b. 16 Aug. 1886; ed. Sheffield, Cambridge and London Univs. General Post Office Engineer 1908-19; served in First World War 1915-18; Dir. of Research W. T. Henley's Telegraph Works Co. Ltd. 1919-29, Chief Engineer 1929-34, Dir. 1936-60; Chair. Cambridge Instrument Co. 1956-64; mem. Senate Univ. of London; Chair. of Convocation London Univ. 1949-61; Pres. Electrical Devt. Assen. 1952-53; Pres. Inst. of Electrical Engineers 1946, Hon. mem. 1964-; Pres. ASLIB 1949-50; Leader Univs./Industry Team visiting U.S.A. 1951; Chair. Special F.B.I. Cttee. on shortage of Science Teachers; Pres. Int. Electro-technical Comm. 1955-58; Hon. Fellow, Univ. Coll., London 1967; LL.D. h.c. London Univ. *Publications:* Industrial Research (Advisory Editor) 1947, The Graduate in Industry 1948, Century of Technology (editor) 1951, The Electrical Current 1951, Convocation in the University of London 1958, Electricity, How it Works 1960, A History of Electrical Engineering 1961, Giants of Electricity 1967, Dordogne Days 1972, Nearly Ninety 1975. *Leisure interest:* water-colour painting. *Address:* Wotton Cottage, Wescott, Dorking, Surrey, RH4 3NP, England. *Telephone:* Dorking 81552.

DUNSMORE, Robert Lionel, M.C., B.SC., D.C.S., F.E.I.C.; Canadian executive; b. 2 Sept.. 1893, Seaforth, Ont.; s. of Robert Johns Dunsmore and Margaret Paisley; m. Rosabel Voaden 1916; one s.; ed. Queen's Univ., Kingston, Ont. Eng. Imperial Oil Co., Sarnia, Ont. 1919-22; Asst. Supt. Calgary Refinery, Imperial Oil Ltd. 1922-25; Gen. Supt. Talara (Peru) Refinery, Int. Petroleum Co. Ltd. 1926-30, 1946-49; Supt. Halifax Imperial Oil Ltd. 1930-43; Man. Montreal Refinery 1944-46; Co-ordinator Mfg. Int. Petroleum Co. Ltd.; Pres. Champlain Oil Products Ltd. 1949-58, Dir. 1958-63; Pres. Montreal Board of Trade 1956-57; Chair. of Board, Canadian Broadcasting Corpn. 1958-63; mem. Board of Trustees, Queen's Univ., Kingston, Ont. 1951-73; Dir. and Vice-Chair. of Board BNP (Canada) Ltd. 1974-78; Fellow Eng. Inst. of Canada; Montreal Medal, Queen's Univ. *Leisure interests:* tennis, painting. *Address:* 4 Centre Street, Kingston, Ontario, Canada (Home). *Telephone:* 544-6860.

DUNSTAN, Donald Allan, Q.C., LL.B., M.P.; Australian solicitor and politician; b. 21 Sept. 1926, Fiji; s. of Vivian Dunstan and Ida May Hill; m. 1st Gretel Ellis 1949 (divorced 1975), two s. one d.; m. 2nd Adele Koh 1976 (died 1978); ed. Collegiate School of St. Peter, Adelaide, and Univ. of Adelaide. Labour mem. of Parl. 1953-; Attorney-Gen., Minister of Aboriginal Affairs and Social Welfare of South Australia 1965, Premier, Treas. and Minister of Housing of South Australia 1967-68, Leader of Opposition 1968-70, Premier, Treas. 1970-79, also Minister of Devt. and Mines 1970-73. *Address:* 1-55 Fullarton Road, Kent Town, South Australia 5067, Australia (Home).

DUNTON, Arnold Davidson, D.SC., LL.D.; Canadian university president; b. 4 July 1912; ed. Lower Canada Coll., Montreal, McGill Univ., Univ. of Grenoble, Cambridge Univ., Univ. of Munich. Reporter Montreal Star 1934; Assoc. Editor 1937; Editor Montreal Standard 1938; Wartime Information Board 1942, Gen. Man. 1944; Chair. Board of Govs. Canadian Broadcasting Corpn. 1945; Pres. and Vice-Chancellor Carleton Univ. 1958-72. *Address:* 410 Maple Lane, Rockcliffe, Ottawa, Ont., Canada.

DUNWORTH, John Vernon, C.B., C.B.E.; British scientist; b. 24 Feb. 1917; s. of late John Dunworth and Susan Ida (née Warburton); m. Patricia Noel Boston 1967; one d.; ed. Manchester Grammar School and Clare Coll., Cambridge. Twisden Studentship and Fellowship, Trinity Coll., Cambridge 1941; War Service with Ministry of Supply on Radar Devt. 1939-44; Nat. Research Council of Canada, on Atomic Energy Devt. 1944-45; Univ. Demonstrator in Physics, Cambridge 1945; joined Atomic Energy Research Est., Harwell 1947; Dir. Nat. Physical Laboratory 1964-76; Alt. Mem., Organizing Cttee. of UN Atoms for Peace Conf., Geneva 1955, 1958; Vice-Pres. Int. Cttee. of Weights and Measures 1968-75, Pres. 1975-; Fellow, American Nuclear Soc. 1960; Chair. British Nuclear Energy Soc. 1964-70; Commdr. with Star, Order of Alfonso X el Sabio (Spain) 1960. *Address:* The Warbuck, Kirk Michael, Isle of Man. *Telephone:* Kirkmichael 359.

DUPONG, Jean; Luxembourg lawyer and politician; b. 18 May 1922, Luxembourg; ed. Athenée de Luxembourg, Loyola Coll., Montreal, Canada, and Univs. of Lausanne and Paris. Lawyer at Court of Appeal, Luxembourg 1948-; Deputy for S. Constituency 1954-; Minister of Justice, Nat. Educ., Family Affairs and Population 1967-69, of Nat. Educ., Labour and Social Security 1969-72, of Nat. Educ., Youth, Labour and Social Security 1972-74; Pres. Christian Social Party 1965-72; Bronze Star (U.S.A.), Croix de guerre, Luxembourg, Chevalier de la Couronne de Chêne, Luxembourg. *Address:* c/o Ministry of National Education, Luxembourg, Grand Duchy of Luxembourg.

DU PONT, Edmond; American businessman; b. 23 Aug. 1906, Wilmington, Del.; s. of Francis Irenée and Marianna Rhett du Pont; m. Averell Adelaide Ross 1932; two s.; ed. Andover Acad., Princeton Univ., and Oxford Univ. Partner, Francis I. du Pont & Co. 1933-70, F.I. Du Pont, Glore Forgan & Co. 1970-71; Dir. Continental Amer. Life Insurance Co. 1964-72; Dir. Winterthur Corpn.; Dir. Episcopal Church Foundation 1950-, Chair. Exec. Cttee. 1972-. *Address:* P.O. Box 507, Wilmington, Del. 19899, U.S.A.

DUPONT, Jacques-Bernard; French inspector of finances and diplomatist; b. 5 April 1922; s. of Louis Dupont and Alice Perisse; m. Marianne Ederle 1952; two s. one d.; ed. Univ. of Toulouse and Ecole Nationale d'Administration, Paris. Lecturer, Tübingen Univ. 1946-49; with French High Comm., Germany 1949-52; Ecole Nat. d'Administration 1952-54; Insp. of Finances 1954-; with Financial Counsellor, Saarbrücken 1957, Technical Adviser, Ministry of Foreign Affairs 1958, Head office, Insp.-Gen. of Finances 1961; Ambassador to Dahomey 1961-64; Dir.-Gen. O.R.T.F. 1964-68; Vice-Pres. European Broadcasting Union 1966-67; Dir.-Gen. Man., Cie. Int. des Wagons-Lits et du Tourisme 1970-; Pres.-Dir.-Gen. Soc. Européenne de Restauration (EUREST) 1971-; Dir. Société Frangéco, Titan Coder 1972-; Pres. Groupement des Industries du Transport et du Tourisme 1975-; Chevalier, Légion d'honneur, Officier, Ordre national du Mérite. *Address:* 1 rue du Maréchal-de-Lattre-de-Tassigny, 92-Neuilly-sur-Seine, France (Home).

DUPONT, Pierre, L.ès D.; Swiss lawyer and diplomatist; b. 1912, Geneva; s. of Eugène Dupont and Marie Deruaz; m. Georgette Grillet 1939; one s. one d.; ed. legal studies in Geneva. Swiss Political Dept., Berne; legations in Paris and Brussels; fmr. mem. Swiss Del. to OECD; fmr. Head Finance Section of Swiss Political Dept.; fmr.

Head Swiss del. to Perm. Franco-Swiss Comm. on free Zones in Haute-Savoie and Pays de Gex; Minister Plen. and Envoy Extraordinary to Venezuela and Panama 1957; Amb. to Poland 1961; Amb. to Netherlands 1965-67, to France 1967-77. *Address:* c/o Ministry of Foreign Affairs, Berne, Switzerland.

DU PONT, Pierre Samuel, III; American fmr. business executive; b. 1 Jan. 1911; s. of Lammot and Natalie Wilson du Pont; m. Jane Holcomb 1933; one s. two d.; ed. Tower Hill School, Phillips Exeter Acad., M.I.T. E.I. du Pont de Nemours & Co. 1934-65, Development Dept 1940-41, Nylon Div. 1942-45, Trade Analysis Div. 1945-47, Dir. 1948, Sec. 1954-63, mem. Finance Cttee. 1959-63, Vice-Pres. and mem. Exec. Cttee. 1963-65; Dir. Wilmington Trust Co. 1951-66; mem. American Chemical Soc.; Chair. Trustees Tower Hill School 1977-. *Address:* Wilmington, Delaware 19801, U.S.A. (Office).

DU PONT, Pierre Samuel, IV, LL.D.; American lawyer and politician; b. 22 Jan. 1935, Wilmington, Del.; s. of Pierre S. du Pont III (q.v.); m. Elise R. Wood 1958; three s. one d.; ed. Philips Exeter Acad., Princeton Univ., and Harvard Univ. Mem. Delaware House of Reps. 1968-70; U.S. House of Reps. 1970-76, serving on Int. Relations Cttee. and Merchant Marine and Fisheries Cttee.; Gov. of Delaware Jan. 1977-; "Watchdog of the Treasury" Award; Republican. *Address:* Legislative Hall, Governor's Office, Dover Del. 19901 (Office); Patterns, Rockland, Del. 19732, U.S.A. (Home).

DUPONT-SOMMER, André Louis; French university professor; b. 23 Dec. 1900, Marnes-La-Coquette, Hauts-de-Seine; m. 1971; two c.; ed. Univ. de Paris à la Sorbonne. Sec., Collège de France 1934-40; Dir. of Studies, School of Higher Studies 1938-; Prof. Univ. of Paris 1945-63; Pres. of Inst. of Semitic Studies, Univ. of Paris 1952-; Prof. Collège de France 1963-71, Hon. Prof. 1972-; mem. Institut de France (Secrétaire Perpétuel de l'Académie des Inscriptions et Belles-Lettres) 1961-; Foreign mem. Accademia dei Lincei 1972-; Corresp. mem. Austrian Acad. of Sciences; Officier Légion d'honneur, Commdr. Ordre des Palmes académiques. *Publications:* La Doctrine gnostique de la lettre waw ... 1946, Les Araméens 1949, Les inscriptions araméennes de Sfiré 1948, Aperçus préliminaires sur les manuscrits de la Mer Morte 1953, Les Écrits esséniens découverts près de la Mer Morte 1959, 1960, 1964, etc. *Address:* Palais Mazarin, 25 quai de Conti, 75006 Paris, France. *Telephone:* 326-02-92.

DU PRÉ, Jacqueline, O.B.E.; British violoncellist; b. 26 Jan. 1945; m. Daniel Barenboim (q.v.) 1967; ed. London 'Cello School, Guildhall School of Music under William Pleeth, under Paul Tortelier (q.v.) in Paris and Mstislav Rostropovich (q.v.) in Moscow; debut at Wigmore Hall at sixteen; has been soloist all over the world; now teaching in London; Fellow of Royal Coll. of Music, Fellow of Guildhall School of Music 1975; Hon. Fellow, Royal Acad. of Music; Hon. D.Lit. (Salford) 1978; Gold Medal, Guildhall School of Music, and Queen's Prize 1960, City of London Midsummer Prize 1975. *Address:* c/o Harold Holt Ltd., 134 Wigmore Street, London, W.1, England.

DUPUIS, Raymond, Q.C.; Canadian lawyer and company director; b. 2 Aug. 1907; ed. Univ. of Montreal; called to Province of Quebec Bar 1930; Dir. Dupuis Frères 1933, Pres. 1945-61; Dir. Royal Bank of Canada, Canadian Broadcasting Corpn., Dominion Tar and Chemical Co. Ltd., Burns & Co. Ltd., Canada Life Assurance Co., Globe Indemnity Co. of Canada, Hudson Bay Insurance Co., Western Assurance Co., British America Assurance Co., Compagnie d'Assurance du Quebec, Soc. Nationale de Fiducie; Nat. Pres. Canadian Chamber of Commerce 1956-57; official of numerous civic and philanthropic orgs. *Address:* 612 St. James Street, West Montreal, Quebec (Office); 21 Messier Street, Sainte-Hilaire, Quebec, Canada (Home).

DURAFOUR, Michel André François; French writer and politician; b. 11 April 1920, Saint-Etienne, Loire; s. of Antoine Durafour and Olga (née Gaillard); m. Maryse Forissier 1973; one s. one d.; ed. Lycée de St. Etienne and Law Faculty of Paris Univ.; assignment in office of Minister of Information 1944-46; journalist, writer, Deputy Mayor 1947-65, Mayor of St.-Etienne 1965-74; mem. Senate for Loire, Independent 1965-67; Deputy to Nat. Assembly for St.-Etienne N.-E., N.-W. 1967-68, 1973-74; Minister of Labour 1974-76, Minister attached to PM with responsibility for Econ. and Finance 1976-77; Conseiller Général, Canton of St. Etienne N.-E. 1967-; mem. Parti Radical-Socialiste; Vice-Pres. Centre Républicain 1967-; mem. Nat. Bureau of Mouvement Réformateur 1971-; Chair. Groupe des Réformateurs (social democratic group) in Nat. Assembly 1973-74; Grand Prix du Théâtre for Les Démoniaques 1950, Grand Prix du Roman d'Aventure for Agnès et les vilains Messieurs 1963. *Publications:* Les Démoniaques 1950, Notre rêve qui êtes aux cieux (film entitled Les fruits sauvages), Bettina Colonna, Les hommes sont comme ça, Le juif du ciel, Les moutons du ciel, Agnès et les vilains Messieurs (under pseudonym Pierre Jardin), Dites-le avec des Pastèques, Pascaline and others. *Address:* 15 Quai des Grands Augustins, 75006 Paris; Ombremont, Faveranges, 4200 Saint Etienne, France.

DURAND-RIVAL, Pierre J. H.; French steel industry executive; b. 1 July 1930, Chambéry; m. Nicole Guyot 1953; three d.; ed. Ecole Polytechnique, Ecole Nat. des Ponts et des Chaussées; military service 1951-52; served Ministry of Public Works in Corsica, Strasbourg, Paris 1954-63; Eng. with SACILOR steel makers, constructing and operating new mills 1963-70; Deputy Gen. Man. SOLMER steel makers 1970-76; Man. Dir. and mem. Board, SACILOR 1976-; Chair. and Man. Dir. SOLLAC 1976-. *Leisure interests:* skiing, music. *Address:* 17 rue de Raigecourt, 57000 Metz, France.

DURANT, Will, A.M., PH.D.; American writer; b. 5 Nov. 1885, North Adams, Mass.; m. Ariel Kaufman 1913; one d.; ed. St. Peter's Coll., and Columbia Univ. *Publications:* The Story of Philosophy 1926, Transition 1927, The Mansions of Philosophy 1929, Adventures in Genius 1931, The Story of Civilisation: Vol. I Our Oriental Heritage 1935, Vol. II The Life of Greece 1939, Vol. III Caesar and Christ 1944, Vol. IV The Age of Faith 1950, Vol. V The Renaissance 1953, Vol. VI The Reformation 1957, Vol. VII The Age of Reason Begins (with Ariel Durant) 1961, Vol. VIII The Age of Louis XIV (with Ariel Durant) 1963, Vol. IX The Age of Voltaire (with Ariel Durant) 1965, Vol. X Rousseau and Revolution (with Ariel Durant) 1967 (Pulitzer Prize 1968), The Lessons of History 1968, Interpretations of Life (with Ariel Durant) 1970, The Age of Napoleon (with Ariel Durant) 1975, A Dual Autobiography (with Ariel Durant) 1977. *Address:* 5608 Briarcliff Road, Los Angeles, Calif. 90068, U.S.A.

DURAS, Marguerite; French writer; b. 4 April 1914, Giadinh, Indo-China; ed. Sorbonne; graduated in law; writer 1943-. *Publications:* Les impudents 1943, La vie tranquille 1944, Un barrage contre le Pacifique 1950, Le marin de Gibraltar 1952, Les petits chevaux de Tarquinia 1953, Des journées entières dans les arbres 1954 (short stories), Le square 1955, Moderato Cantabile 1958, Les viaducs de la Seine-et-Oise 1960, Hiroshima mon amour (film), Dix heures et demie du soir en eté 1960 (film 1967), L'après-midi de Monsieur Andesmas 1962, Le ravissement de Lol. V. Stein, Des journées entières dans les arbres (play) 1964, La Música (play) 1965, (film) 1967, Les eaux et les forêts (play) 1965, Le vice-consul 1966, L'amante anglaise 1967, Yes, peut-être and Le Shaga (two plays) 1968, Détruire, dit-elle 1969, Susanna Andler (play) 1969, Abaha Sabana David 1971, L'amour 1972, Jaune le soleil (film) 1971, Nathalie Granger (film) 1972, La femme du Gange (film) 1974, Abahn Sabana David 1976, La Musica—Yes peut-être 1976 (plays).

DURHAM, Kenneth, B.SC.; British company director; b. 28 July 1924, Blackburn, Lancs.; s. of George and Bertha (née Aspin) Durham; m. Irene Markham 1946; one s. one d.; ed. Queen Elizabeth Grammar School, Blackburn, Univ. of Manchester. Flight Lieut. in R.A.F. 1943-46; joined Atomic Research Establishment, Harwell, then Unilever Research Lab., Port Sunlight 1950, Head of Lab. 1961; Head of Lab., Colworth 1965; Chair. BOCM Silcock Ltd. 1971; Dir. Unilever Ltd. and Unilever NV 1977; Vice-Chair. Unilever Ltd. 1978-; Trustee Leverhulme Trust 1974. *Publications:* Surface Activity and Detergency 1960, various scientific papers. *Leisure interests:* walking, golf. *Address:* Unilever Ltd., P.O. Box 68, Unilever House, London, EC4P 4BQ. Home: Burfield, Pangbourne Hill, Pangbourne, Berks., England. *Telephone:* 01-353 7474 (Office); 07357-2265 (Home).

DURKIN, John Anthony, B.A., LL.B.; American politician; b. 29 March 1936, Brookfield, Mass.; s. of Joseph Durkin and Charlotte Dailey; m. Patricia Moses 1965; one s. two d.; ed. Holy Cross Coll., Worcester, Mass., Georgetown Univ. Law Center, Washington, D.C.; served in U.S. Navy 1959-61, Lieut.-Commdr. in Corps Reserve; Asst. to Admin. of Nat. Banks, Washington, D.C. 1963-66; Asst. Attorney-Gen., New Hampshire 1966-68; New Hampshire Insurance Commr. 1968-73; mem. Exec. Cttee. of Nat. Assen. of Insurance Commrs. 1970-73; Senator for New Hampshire 1975-. *Leisure interests:* reading, travelling. *Address:* 60 Lenz Street, Manchester, New Hampshire 03102, U.S.A. *Telephone:* (603) 669-4089; (603) 627-4435.

DURKÓ, Zsolt; Hungarian composer; b. 10 April 1934, Szeged; s. of Dr. Gábor Durkó and Irén Patkós; m. Rita Gerencsér 1970; two s.; ed. Music Acad. of Budapest, under F. Farkas, and Accad. Santa Cecilia, Rome, under G. Petrassi. Prof. of 20th Century Composition, Music Acad. of Budapest 1970-; mem. Board, Fed. of Hungarian Musicians 1969-; mem. cttee. for cultural research of Inst. of Linguistics, Hungarian Acad. of Sciences; Premio d'Atri,

Rome 1963, First Prize, Int. Tribune of Composers, Paris 1975, Critics' Prize (Hungarian Radio) twice, Listeners' Prize (Hungarian Radio) twice, Special Citation of Int. Koussewitzky Award. *Compositions:* vocal: Altamira 1968, Kolloidok 1969, two Cantatas 1971, 1972, Halotti Beszéd (Funeral Sermon) 1972, Moses (opera) 1977; instrumental: Organismi 1964, Una Rapsodia ungherese 1965, Fioriture 1966, String Quartets, no. 1 1966, no. 2 1970, Iconographies, no. 1 1970, no. 2 1971, Chamber Music 1973, Fire Music, Turner Illustrations 1976; opera: Moses. *Address:* Bimbó ut. 193, 1026 Budapest II, Hungary. *Telephone:* 365-450.

DURRANI, Shakirullah; Pakistani investment banker and airline executive; b. 20 Sept. 1928, Sheikh-Kale, Tehsil Charsadda, Peshawar; s. of late Maj. Mohd. Zaman Khan; m. Samina Hayat 1951; one s. five d.; ed. Government Coll., Lahore, Indian Military Acad., Dehradun, and Pakistan Military Acad., Kakul. Regular Officer Pakistan Army until 1951; Lloyds Bank Ltd., training in U.K. and service in Karachi, Rawalpindi, Lahore and Dacca branches 1952-60; Chief of Operations, Pakistan Industrial Credit and Investment Corpn. 1960-63, Deputy Man. Dir. 1963-66; Man. Dir. Investment Corpn. of Pakistan 1966-68; Man. Dir. Pakistan Int. Airlines Corpn. 1968-71; Gov. State Bank of Pakistan 1971; under house arrest Dec. 1972; Sitara-e-Khidmat 1965, Sitara-e-Quaid-e-Azam 1969, Grand Cordon, Order of Independence First Class (Jordan) 1970. *Address:* c/o State Bank of Pakistan, P.O. Box 4456, McLeod Road, Karachi, Pakistan.

DURRELL, Gerald Malcolm, F.R.S.L., F.R.G.S., F.Z.S.; British zoologist and writer; b. 7 Jan. 1925, Jamshedpur, India; s. of Lawrence Samuel and Louisa Florence (née Dixie) Durrell; m. Jacqueline Sonia Rasen 1951; ed. private tutors; student keeper, Whipsnade Park 1945-46; zoological collecting expeditions: British Cameroons 1947 and 1948, British Guiana 1949, Argentina and Paraguay 1953, British Cameroons 1956, Trans-Argentine 1958, New Zealand, Australia and Malaysia 1961, Sierra Leone 1964, Mexico 1968, Mauritius 1976, 1977, India/Assam 1978, Madagascar 1978; established own zoo in Jersey 1959, founded Jersey Wildlife Preservation Trust 1964; contributes to many magazines and dailies; numerous lectures, B.B.C. broadcasts and 4 major T.V. series on animals; Fellow Int. Inst. of Arts and Letters; mem. Inst. of Biology, British Ornithologists Union; Hon. L.H.D. *Publications:* The Overloaded Ark 1952, Three Singles to Adventure 1953, The Bafut Beagles 1953, The Drunken Forest 1955, My Family and Other Animals 1956, Encounters with Animals 1959, A Zoo in My Luggage 1960, The Whispering Land 1962, Menagerie Manor 1964, Two in the Bush 1966, Rosy is My Relative (novel) 1968, Birds, Beasts and Relatives 1969, Fillets of Plaice 1971, Catch Me a Colobus 1972, Beasts in My Belfrey 1973, The Stationary Ark 1976, Golden Bats and Pink Pigeons 1977; Childrens' Books: The New Noah 1956, Island Zoo 1961, Look at Zoos 1961, My Favourite Animal Stories 1963, The Donkey Rustlers 1968, The Talking Parcel 1974, The Garden of the Gods 1978. *Leisure interests:* reading, photography, drawing, swimming, history and maintenance of zoological gardens. *Address:* Jersey Wildlife Preservation Trust, Les Augres Manor, Trinity, Jersey, Channel Islands. *Telephone:* Central 61949.

DURRELL, Lawrence George, F.R.S.L.; British author; b. 27 Feb. 1912; ed. Coll. of St. Joseph, Darjeeling, India, and St. Edmund's Coll., Canterbury, England; fmrly. Foreign Service Press Officer (Athens and Cairo), Press Attaché (Alexandria and Belgrade), Dir. of Public Relations (Dodecanese Islands), Dir. of British Council Institutes (Kalamata, Greece, and Cordoba, Argentina), and Dir. of Public Relations (Govt. of Cyprus); Duff Cooper Memorial Prize 1957, James Tait Black Memorial Prize 1974. *Publications:* Poetry: A Private Country 1943, Cities, Plains and People 1946, On Seeming to Presume 1948, The Tree of Idleness 1955, Selected Poems 1956, Collected Poems 1960, 1968, 1979, The Ikons 1966, The Red Limbo Lingo 1971, Vega and Other Poems 1973, New Selected Poems 1978; Verse drama: Sappho 1950, Acte 1962, An Irish Faustus 1964; Prose: Panic Spring 1937, The Black Book 1938, Prospero's Cell 1945, Cefalu (The Dark Labyrinth) 1947, Reflections on a Marine Venus 1953, Bitter Lemons 1957, The Alexandria Quartet: Justine 1957, Balthazar 1958, Mountolive 1958, Clea 1960; Tunc 1968, Spirit of Place 1969, Nunquam 1970, The Big Supposer 1973, Monsieur 1974, Sicilian Carousel 1977, Livia 1978, The Greek Islands 1978; Humour: Esprit de corps 1957, Stiff Upper Lip 1958, Sauve qui peut 1966; Juvenile: White Eagles Over Serbia 1957; Trans. Four Greek Poets 1946, Pope Joan 1948; Letters: A Private Correspondence (with Henry Miller) 1962. *Address:* c/o Grindlay's Bank Ltd., 13 St. James's Square, London, S.W.1, England.

DÜRRENMATT, Friedrich; Swiss writer; b. 5 Jan. 1921; s. of Reinhold and Hulda (née Zimmermann) Dürrenmatt; m. Lotti Geissler 1946; one s. two d.; ed. Univs. of Berne and Zürich. *Publications:* Plays: Es steht geschrieben, Der Blinde, Romulus der Grosse, Die Ehe des Herrn Mississippi, Ein Engel kommt nach Babylon, Der Besuch der alten Dame, Frank V, Die Physiker, Herkules and der Stall des Augias, Der Meteor, Die Wiedertäufer, König Johann (after Shakespeare), Play Strindberg, Titus Andronicus (after Shakespeare), Porträt eines Planeten, Der Mitmacher, Die Frist, Die Panne; Plays for Radio: Der Doppelgänger, Der Prozess um des Esels Schatten, Nachtliches Gesprach mit einem veralmteten Menichen, Stranitzky und der Nationalheld, Herkules und der Stall des Augias, Das Unternehmen der Wega, Abenditunde im Spätherbst; Detective Fiction: Der Richter und sein Henker, Der Verdalmt, Das Versprechen; Prose: Pilatus, Der Nihilist, Der Mund, Der Theaterdirektor, Der Tunnel, Grieche sucht Griechin, Im Coiffeurladen, Das Bild des Sysiphos, Der Sturz; Der Folterknecht, Weihnacht, Die Stadt; Essays: Theaterprobleme, Theaterschriften und Reden, Gerechtigkeil und Recht, Zusammenhänge, Friedrich Schiller, Israel, Der Mitmacher, Satze aus Amerika. *Leisure interest:* painting. *Address:* Pertuis du Sault 34, 2000 Neuchâtel, Switzerland. *Telephone:* (038) 25-63-23.

DÜRRENMATT, Peter Ulrich; Swiss journalist; b. 29 Aug. 1904; ed. Univs. of Berne and Geneva; began career as teacher; mem. staff Schweizer Mittelpresse 1934; Editor Swiss Section Basler Nachrichten 1943-49, Chief Editor 1949-73; mem. Nat. Council 1959. *Publications:* Die Bundesverfassung, ihr Wert und ihre Bewährung 1948, Kleine Geschichte der Schweiz im zweiten Weltkrieg 1949, Zerfall und Wiederaufbau der Politik 1951, Schweizergeschichte 1957, Die Welt zwischen Krieg und Frieden 1959, Europa will leben 1960, 50 Jahre Weltgeschichte 1962, In die Zeit gesprochen 1965. *Address:* Pfaffenlohweg 60, Riehen, Switzerland.

DURRY, Marie-Jeanne, D. ES L.; French academic and poetess; b. 25 March 1901, Paris; m. Marcel Durry 1922; two s.; ed. Sorbonne, Paris; became Prof. at the Univ. of Caen 1933-44; Chef de Service aux Rélations Culturelles 1945-47; Professor of French Literature at the Sorbonne 1947-. Commandeur de la Légion d'honneur; Commandeur Ordre de Mérite; Grand Prix de Poésie, Académie Française 1976. *Publications:* La Viellesse de Chateaubriand 1933, Jules Laforgue 1952, Gerard de Nerval et le Mythe 1956, Guillaume Apollinaire, Alcools 1956, various essays on Mme de La Fayette, Marivaux, Balzac, Stendhal and Giraudoux; published poetry includes Le huitième jour 1949, Soleils de sable 1958, Mon Ombre 1962, Eden 1970, Orphée 1976. *Address:* 18 Quai de Béthune, F 75004 Paris, France. *Telephone:* 326 19 88.

DURUFLÉ, Maurice; French organist and composer; b. 11 Jan. 1902; ed. Paris Conservatoire; prize for organ (Conservatoire) 1922; prize for harmony 1924; prize for accompaniment 1926; prizes for fugue and for composition 1928; Prix des "Amis de l'Orgue" 1930; Organist of Saint-Etienne-du-Mont; Asst. Prof. at Conservatoire de Paris 1942; Prof. d'harmonie, Conservatoire de Paris 1945-75; Hon. Prof. 1975-; Chevalier, Légion d'honneur, Officier, Ordre national du Mérite, Officier des Arts et des Lettres. *Works include: Organ:* Prélude, Adagio et Choral Varié sur le Veni Creator 1929; Suite 1933; Prélude et Fugue 1942; Chamber Music: Trio pour Flûte, Alto et Piano; Quatre Motets 1960; Orchestra: Trois Danses 1935, Andante et Scherzo 1940, Requiem pour Solo, Choeurs, Orchestre et Orgue 1947, Messe: Cum jubilo 1966. *Address:* 6 Place du Panthéon, 75005 Paris, France. *Telephone:* 326-45-02.

DUTILLEUX, Henri; French composer; b. 22 Jan. 1916, Angers; s. of Paul and Thérèse (née Koszul) Dutilleux; m. Geneviéve Joy 1946; ed. Conservatoire national de Musique, Paris; career devoted to music 1945-; Dir. service Créations Musicales Radiodiffusion française 1945-63; Prof. of Composition Ecole Normale de Musique, Paris 1961-, Pres. 1969-, Assoc. Prof. Conservatoire National Supérieur de Musique, Paris 1970-71; Vice-Pres. Syndicat Nat. des Auteurs et Compositeurs 1962-; fmr. mem. UNESCO Music Council; 1st Grand Prix de Rome 1938, Grand Prix du Disque 1957, 1958, 1966, 1968, 1976, and 1978, Grand Prix National de la Musique 1967, Prix de la Ville de Paris 1974, Koussevitzky Intl. Recording Award 1976. *Compositions:* Sonata for Piano 1948, First Symphony 1951, Le Loup (Ballet) 1953, Second Symphony (Le Double) 1959, Métaboles 1964, Cello Concerto: Tout un monde lointain 1970, Figures de Résonances (for two pianos) 1971, Preludes for Piano 1974, Ainsi la Nuit (for string quartet) 1976, Timbres, Espace, Mouvement (for orchestra) 1977. *Address:* 12 rue Saint-Louis en l'Ile, 75004 Paris, France. *Telephone:* 326-3914.

DUVAL, (Charles) Gaëtan, BAR.-AT-LAW; Mauritius politician; b. 9 Oct. 1930, Rose Hill; s. of Charles R. and Rosina M. Duval; divorced; one s.; ed. Royal Coll., Curepipe, Lincoln's Inn, London and Faculty of Law, Univ. of Paris; entered politics 1958; mem. Town Council, Curepipe 1960, re-elected 1963, Legislative Council, Curepipe 1960, re-elected 1963; mem. Municipal Council, Port

Louis 1969-; mem. "Le Centre Culturel Français"; Chair. Town Council, Curepipe 1960-61, 1963-68; Rep. Curepipe at Nice 1960; Minister of Housing, Lands and Town and Country Planning 1964-65; attended London Constitutional Conf. 1965; Leader, Parti Mauritien Social Démocrate (PMSD) 1966-; first M.L.A. for Grand River North-west and Port Louis West 1967; Leader of the Opposition 1967-69; Minister of External Affairs, Tourism and Emigration 1969-73; Mayor, City of Port Louis 1969-71; Lord Mayor of Port Louis 1971-74; Pres. Assen. Touristique de l'Océan Indien (A.T.O.I.) 1973; Chair. S. African Regional Tourism Council 1973; Grand Officier, Ordre national du Tchad, Ordre du Lion du Sénégal; Médaille de l'Assemblée National Française, Médaille de la République Française; Commdr. Légion d'honneur, Ordre National du Centre-Afrique. *Leisure interests:* horse-riding, farming. *Address:* Parti Mauricien Social Démocratique, P.O. Box 599, Port Louis; and Grand Gaube, Mauritius. *Telephone:* 35-551; 39-518.

DUVAL, H.E. Cardinal Léon-Etienne, D.THEOL.; Algerian (b. French) ecclesiastic; b. 9 Nov. 1903, Chenex, Haute-Savoie, France; s. of François Duval and Joséphine Saultier; ed. Petit Séminaire, Roche-sur-Foron, Grand Séminaire Annecy, Séminaire français Rome, and Pontificia Universitas Gregoriana; ordained priest 1926, Prof. Grand Séminaire Annecy 1930-42; Vicar-Gen. and Dir. of works, Diocese of Annecy 1942-46; consecrated Bishop of Constantine and Hippo 1946; Archbishop of Algiers 1954-; created Cardinal 1965; Officier Légion d'honneur. *Publications:* Paroles de paix 1955, Messages de paix 1955-1962 1962, Laïcs, prêtres, religieux dans l'église 1967. *Address:* Archbishop's House, 13 rue Khelifa-Boukhalfa, Algiers, Algeria. *Telephone:* 63-42-44; 64-05-82.

DUVALIER, Jean-Claude; Haitian Head of State; b. 3 July 1951, Port-au-Prince; s. of late Pres. François Duvalier and Simone (née Ovide); q.v.; ed. Coll. of St. Louis de Gonzague, Port-au-Prince and faculty of law, Univ. of Haiti; named political heir to Pres. François Duvalier Jan. 1971; Life Pres. April 1971-. *Address:* Palais National, Port-au-Prince, Haiti.

DUVALIER, Simone; First Lady of Haiti; b. 19 March 1913, Léogane, Port-au-Prince; d. of Jules Faine; m. late Pres. François Duvalier 1939; one s. (Jean-Claude, q.v.) three d.; ed. secondary school, Port-au-Prince; trained as nurse; First Lady of Haiti Oct. 1957-. *Address:* Palais National, Port-au-Prince, Haiti.

DUVERGER, Maurice; French political scientist; b. 5 June 1917, Angoulème; m. Odile Batt 1949; ed. Bordeaux Univ; Prof. of Political Sociology, Paris Univ. 1955-; Dir. of Sorbonne; Dir. of Study and Research, Fondation Nat. des Sciences Politiques; contributor to Le Monde. *Publications:* Les partis politiques 1951, La participation des femmes à la vie politique 1955, Les finances publiques 1956, Demain, la république . . . 1958, Méthodes de la science politique 1959, De la dictature 1961, La vième république et le régime présidentiel 1961, Introduction to the Social Sciences 1964, Introduction à la politique 1964, Sociologie politique 1966, La démocratie sans le peuple 1967, Institutions politiques 1970, Janus: les deux faces de l'Occident 1972, Sociologie de la politique 1973, La monarchie républicaine 1974, Lettre ouverte aux socialistes 1976, L'Autre coté des choses 1977, Echec au roi 1978. *Leisure interest:* theatre. *Address:* 24 rue des Fossés Saint-Jacques, 75005 Paris, France.

DUVILLARD, Henri; French politician; b. 3 Nov. 1910. Journalist, Dir. La Dépêche du Loiret 1947-52; on staff of Gen. Koenig (Minister of Nat. Defence) 1954, 1955; on staff of H. Ulvet (Minister of Industry and Commerce) 1954-55; on staff of Maurice Lemaire (Sec. of State for Industry and Commerce) 1956-57; Deputy for Loiret; fmr. Vice-Pres. U.N.R. Group in Nat. Assembly; fmr. Public Relations Officer, Papeteries de France; Minister for Ex-Servicemen 1967-72; Médaille militaire, Croix de guerre (1939-45), Médaille de la Résistance. *Address:* 12 rue du Grenier-à-sel, 45000 Orléans, France.

DUWAERTS, Leon-Louis; Belgian journalist; b. 13 Jan. 1905; ed. Athénée de Saint-Gilles-lez-Bruxelles. Sec.-Gen. Union professionelle de la presse belge 1928-35, Association générale de la presse belge 1935-38, Pres. 1958-60; Pres. Association professionnelle de la presse cinématographique belge 1935-37, 1940-50, now Hon. Pres.; Editor-in-Chief Agence Belga; Hon. Pres. Fédération Int. de la presse cinématographique; Pres. Belgian Journalists' Inst.; Commdr. Ordre de Léopold, etc. *Publications:* Le statut du journaliste professionel de la presse filmée 1935, Droits et devoirs du journaliste 1952. *Address:* 120 avenue Henri Jaspar, Brussels 6, Belgium. *Telephone:* 02/37-57-27.

DUWEZ, Pol E., D.SC.; American professor of materials science; b. 11 Dec. 1907, Mons, Belgium; m. Nera Faisse 1935; one d.; ed. School of Mines, Mons and Univ. of Brussels; Research Fellow Physics, Calif. Inst. of Tech. 1933-35; Prof., School of Mines, Mons 1935-40; Calif. Inst. of Tech., Research Engineer 1941-45, Chief Materials Section, Jet Propulsion Laboratory 1945-54, Prof. of Materials Science 1947-; mem. Science Advisory Board to Chief of Staff, U.S.A.F. 1945-55; mem. Nat. Acad. of Sciences 1972-; Fellow, American Acad. of Arts and Sciences; Charles B. Dudley Award, American Soc. for Testing Materials 1951, C.H. Matthewson Gold Medal, American Soc. Mining and Metallurgical Engineers 1964, Campbell Memorial Lecturer, American Soc. of Metals 1967, F.J. Clamer Medal, Franklin Inst. 1968, A. Sauveur Achievement Award, American Soc. of Metals 1973, Gov. Cornez Prize, Belgium 1973, Paul Lebeau Medal, Paris 1974. *Publications:* numerous papers on: plastic deformation and wave propagation, heat transfer, powder metallurgy, titanium and its alloys, high temperature refractory materials, alloy systems. *Leisure interest:* chamber music. *Address:* 1535 Oakdale Street, Pasadena, Calif. 91106, U.S.A.

DVOŘÁK, Richard; Czechoslovak politician; b. 28 Dec. 1913, Křešice on Elbe; ed. Commercial Coll., Teplice; imprisoned by Gestapo 1939-45; mem. Nat. Assembly 1948; Minister, Foreign Trade 1953-59; Amb. to U.S.S.R. 1959-63; Head, Central Board for Devt. of Local Economy 1963; Minister of Finance Sept. 1963-67; Amb. to India and Nepal 1967-71, to German Democratic Repub. 1971-76; Ministry of Foreign Affairs 1977-; mem. of Comm. of Central Cttee. of CP of Czechoslovakia for questions of Living Standards 1963-66; Deputy to Nat. Assembly 1960-64; Alt. mem. Central Cttee. of CP of Czechoslovakia 1958-62, mem. 1962-66; Order of Labour 1963, Order of Victorious February 1973.

DY, Francisco Justiniano, M.D., M.P.H.; Philippine public health administrator; b. 17 Sept. 1912, Manila; m. Fé L. de la Fuente 1941; two s. two d.; ed. Univ. of Philippines and School of Hygiene and Public Health, Johns Hopkins Univ., U.S.A; Research Asst. and Instructor, Inst. of Hygiene, Univ. of Philippines 1938-41; U.S. Army 1942-45; Senior Surgeon, U.S. Public Health Service 1945-46; Consultant and Chief of Malaria Division, U.S. Public Health Service Rehabilitation Programme in Philippines 1946-50; Prof. of Malariology and Chair. Dept. of Parasitology, Inst. of Hygiene, Univ. of Philippines 1950-52; Deputy Chief, Malaria Section, World Health Org. (WHO), Geneva 1950-51; Regional Malaria Adviser, WHO, for W. Pacific Region 1951-57; Dir. of Health Services, WHO Regional Office for W. Pacific 1958-66, Regional Dir. of WHO for W. Pacific 1966-79, Regional Dir. Emerg. 1979-; Prof. of Community Medicine, Univ. of Philippines 1969; mem. Nat. Research Council of Philippines; Distinguished Service Star (Philippines), Presidential Medal of Merit (Republic of Korea), Legion of Merit, with Oak Leaf Cluster (U.S.A.), and other decorations. *Leisure interest:* gardening. *Address:* Regional Office for the Western Pacific, World Health Organization, P.O. Box 2932, Manila, Philippines. *Telephone:* 59-20-41.

DYKES BOWER, Sir John, Kt., C.V.O.; British organist; b. 13 Aug. 1905; ed. Cheltenham Coll., and Corpus Christi Coll., Cambridge; Organist and Master of the Choir, Truro Cathedral 1926-29, Succentor 1929; Organist, New Coll., Oxford 1929-33, Durham Cathedral 1933-36; Fellow, Corpus Christi Coll., Cambridge 1934-37; Organist, St. Paul's Cathedral, London 1936-67; Pres. Inc. Assen. of Organists 1949-50, Royal Coll. of Organists 1960-62, Hon. Sec. 1968-; Hon. D.Mus. (Oxford), and several hon. diplomas. *Address:* 4Z Artillery Mansions, Westminster, London S.W.1, England. *Telephone:* 01-222 6147.

DYLAN, Bob; American composer and singer; b. Robert Zimmerman 24 May 1941, Duluth, Minn.; ed. Univ. of Minn.; best known for composition and interpretation of pop, country and folk music; self-taught on harmonica, guitar, piano, autoharp; performer numerous tours and concerts 1960-68, 1971, 1974, 1975, 1976; devised and popularized folk-rock 1965; numerous songs include: Blowin' in the Wind, Don't think twice, it's all right, A hard rain's a-gonna fall, She belongs to me, It's all over now baby blue, The times they are a-changing, Just like a woman, I'll be your baby tonight, I shall be released, Lay, lady, lay, If not for you, Mr. Tambourine Man, Hurricane, Knock' on Heaven's Door, etc.; has acted in films, Don't Look Back, Eat the Document, Pat Garrett and Billy the Kid and Renaldo and Clara (also directed); Hon. D. Mus. (Princeton) 1970. *Publications:* Tarantula 1966, 1971, Writings and Drawings 1973. *Address:* P.O. Box 264, Cooper Station, New York, N.Y.10003, U.S.A.

DYMSHYTS, Venyamin Emmanuilovich; Soviet engineer and politician; b. 28 Sept. 1910; ed. Higher Technical School, Moscow; Mem. CPSU 1937-; in metallurgical construction 1931-50; Deputy Minister construction enterprises in metallurgical and chemical industries 1950-57; Chief Engineer (Construction), Bhilai

Steel Plant, India 1957-59; Chief of Dept., State Planning Cttee. 1959-61, First Deputy Chair. 1961-62, Chair. 1962; Chair. Econ. Council U.S.S.R. 1962-65; Chair. U.S.S.R. State Cttee. for Material and Technical Supplies 1965-76; Deputy Chair. U.S.S.R. Council of Ministers 1962-76, mem. 1976-; mem. Cen. Cttee. CPSU 1961-; Deputy to Supreme Soviet 1962-; State Prize 1946, 1950, Order of Lenin, Order of the Red Banner of Labour (twice), and six other decorations. *Address:* c/o State Cttee. for Material and Technical Supplies, 5 Orlikov pereulok, Moscow, U.S.S.R.

DYSON, Freeman John, F.R.S.; American physicist; b. 15 Dec. 1923, Crowthorne, England; s. of late Sir George Dyson and Lady Mildred (Atkey) Dyson; m. 1st Verena Huber 1950 (divorced 1958), 2nd Imme Jung 1958; one s. five d.; ed. Cambridge and Cornell Univs; Fellow of Trinity Coll., Cambridge 1946; Warren Research Fellow, Birmingham Univ. 1949; Prof. of Physics, Cornell Univ. 1951-53; Prof., Inst. for Advanced Study, Princeton 1953-; Chair. Fed. of American Scientists 1962; mem. U.S. Nat. Acad. of Sciences 1964-; Heineman Prize, American Inst. of Physics 1965, Lorentz Medal, Royal Netherlands Acad. 1966, Hughes Medal, Royal Soc. 1968, Max Planck Medal, German Physical Soc. 1969, Harvey Prize, Israel Inst. of Tech. 1977. *Publications:* papers in The Physical Review, Journal of Mathematical Physics, etc. *Address:* Institute for Advanced Study, Princeton, N.J. 08540, U.S.A. *Telephone:* (609)924-4400.

DZÚR, Col.-Gen. Martin, ING.; Czechoslovak army officer and politician; b. 12 July 1919, Ploštín; ed. School of Wood Processing, V.M. Molotov Military Acad. of Rear Echelon Services, Kalinin, U.S.S.R., and Military Staff Acad. of Armed Forces U.S.S.R.; technical clerk, Slovak Paper Mills, Ružomberok 1939-41; Army service 1941-43; joined 1st Czechoslovak Independent Brigade, Soviet Army, U.S.S.R.; served in U.S.S.R. 1943-45; Div. Gen. Staff Officer, State Sec.'s A.D.C., A.D.C. to Chief of Mil. Office of Pres. of Czechoslovakia 1945-49; various important posts in Army and Ministry of Nat. Defence 1953-58; Deputy Minister of Nat. Defence 1958—68, Minister 1968; Minister of Nat. Defence, Fed. Govt. of Č.S.S.R. 1969-; mem. Cen. Cttee. CP of Czechoslovakia 1968-; Deputy to House of the People, Fed. Assembly 1971-; Army Gen. 1972; Order of Labour 1969, Soviet, Czechoslovak and Polish Medals including Award for Strengthening Friendship in Arms, 1st Class 1972, Commdr.'s Cross with Star of Order of Polish Revival 1972, Order of Victorious February 1974, Order of October Revolution 1978. *Address:* Ministry of National Defence, Prague, Czechoslovakia.

E

EAGLE, Harry, A.B., M.D.; American researcher in cell biology, b. 13 July 1905, New York; m. Hope Whaley 1928; one d.; ed. Johns Hopkins Univ. and Johns Hopkins Medical School; Asst. Instructor Dept. Medicine, Johns Hopkins Medical School 1928-32; Nat. Research Fellow, Harvard 1932-33; Asst. Prof. Microbiology, Univ. of Pa. Medical School 1933-36; U.S. Public Health Service 1936-61; Dir. Venereal Disease Research Lab. and Lab. of Experimental Therapeutics, Johns Hopkins School of Hygiene and Public Health, and the Public Health Service 1936-48, Adjunct Prof. of Bacteriology, Johns Hopkins School of Hygiene and Public Health 1946-48; Scientific Dir., Research Branch, Nat. Cancer Inst. 1947-49; Chief, Section on Experimental Therapeutics at Nat. Microbiological Inst., Nat. Inst. of Health 1949-59, Laborotory of Cell Biology at Nat. Inst. of Allergy and Infectious Diseases 1959-61; Prof. and Chair., Dept. of Cell Biology, Albert Einstein Coll. of Medicine, N.Y. 1961-71, Div. of Biological Sciences 1968-71, Univ. Prof. 1971–, Dir. Cancer Research Center 1971-, Assoc. Dean for Scientific Affairs 1974-; Harvey Lecturer 1959; Trustee, Microbiological Foundation (Waksman); mem. numerous advisory cttees.; mem. numerous socs. including Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Soc. of American Microbiologists (Pres. 1957-58), American Acad. of Microbiology, American Assn. of Immunologists (Pres. 1964-65), American Assn. of Cancer Research (on Board of Dirs. 1963-66); Hon. M.Sc. Yale Univ., Hon. D.Sc. Wayne Univ.; Eli Lilly Award in Microbiology 1936, Presidential Certificate of Merit 1948, Borden Award, American Assn. of Medical Colls. 1964, Albert Einstein Commemorative Award 1968, Modern Medicine Award 1972, Louisa Gross Horwitz Award 1973, Sidney Farber Medical Research Award 1974, Johns Hopkins Soc. of Scholars Award 1975, Einstein Hon. Alumnus Award 1976. *Publications:* studies relating to: Bacterial physiology; Immunochemistry: serodiagnosis of syphilis, blood coagulation; Chemotherapy: syphilis, trypanosomiasis and tropical diseases; Detoxification of metal poisoning; Mode of action of antibiotics; Cell and tissue culture. *Address:* Albert Einstein College of Medicine, Eastchester Road and Morris Park Avenue, Bronx, N.Y. 10461 (Office); 370 Orienta Avenue, Mamaroneck, N.Y. 10543, U.S.A. (Home). *Telephone:* (212)430-2302 (Office); (914)OW 8-8218 (home).

EAGLEBURGER, Lawrence Sidney, M.S.; American government official; b. 1 Aug. 1930, Milwaukee, Wis.; s. of late Dr. Leon S. and Helen M. Eagleburger; m. Marlene Ann Heinemann 1966; three s.; ed. Univ. of Wisconsin; joined U.S. foreign service 1957; Third Sec., Tegucigalpa, Honduras 1957-59; Dept. of State 1959-62; Second Sec., Belgrade, Yugoslavia 1962-65; Dept. of State 1965-66; mem. Nat. Security Council staff 1966-67; Special Asst. to Under-Sec. of State 1967-68; Exec. Asst. to Asst. to Pres. for Nat. Security affairs 1969; Politicial Adviser, U.S. Mission to NATO 1969-71; Dept. Asst. Sec. of Defense, Internal Security Affairs 1971-72, Acting Asst. Sec. of Defense, Internal Security Affairs 1973, Exec. Asst. to Sec. of State 1973-77; Deputy Asst. to Pres. for Nat. Security Operations 1973; Dep. Under-Sec. of State for Man., Exec. Asst. to Sec. of State 1975-77; Amb. to Yugoslavia 1977-; Dept. of Defense Distinguished Civilian Service Medal, President's Award for Distinguished Civil Service. *Address:* U.S. Embassy, Kneza Miloša 50, Belgrade, Yugoslavia.

EAGLETON, Thomas Francis, LL.B.; American lawyer and politician; b. 4 Sept. 1929; ed. Amherst Coll. and Harvard Univ.; admitted to Mo. Bar 1953; private law practice St. Louis 1953-56; Circuit Attorney, St. Louis 1957-60; Attorney-Gen., State of Mo. 1961-65, Lieut.-Gov. 1965-68; Senator from Mo. 1969-; selected as candidate for Vice-Presidency but later resigned 1972; Democrat. *Address:* 6235 Senate Office Building, Washington, D.C. 20510, U.S.A.

EANES, Gen. António dos Santos Ramalho; Portuguese army officer and politician; b. 25 Jan. 1935, Alcains; s. of Manuel dos Santos Eanes and Maria do Rosario Ramalho; m. Maria Manuela Duarte Neto Portugal 1970; two s.; ed. High School, Castelo Branco, Higher Inst. of Applied Psychology, Lisbon Faculty of Law; enlisted in Army School 1953; Commissioned to Portuguese India 1958-60, Macau, Mozambique 1962-64, Operations Officer of Light Infantry Battalion, Mozambique 1966-67, Information Officer, Portuguese Guinea (Guinea-Bissau) 1969-73, Angola 1973-74; Physical Education Instructor, Mil. Acad. 1968; Dir. of Dept. of Cultural and Recreational Affairs 1973; rank of Second Lieut. 1957, Lieut. 1959, Capt. 1961, Major 1970, Gen. 1978; involved in leadership of mil. movements finally contesting mil. apparatus and colonial wars 1968-74; after April Revolution named to first 'Ad-hoc' Cttee. for mass media June 1974; Dir. of Programmes of Portuguese TV June-Sept. 1974, Chair. of Bd. of Dirs. of TV co., resigned after accusation of 'probable implication' in abortive counter-coup March 1975, cleared after inquiry; rank of Lieut.-Col.; mem. Cttee. restructuring 5th Div., Gen. Staff Armed Forces; Army Chief of Staff (with temporary rank of Gen.) Dec. 1975; mem. of Mil. Cttee. of Council of Revolution; responsible for Constitutional Law approved Dec. 1975; Col. 1976; Pres. of Portugal July 1976-; Chair. of Council of Revolution; Commdr.-in-Chief of Armed Forces; War Cross 2nd class, Silver Medal for Distinguished Services with Palm, Silver Medal for Exemplary Behaviour, Commemorative Medal of the Portuguese Armed Forces, Degree of Knight of Mil. Order of Avis. *Address:* Presidência da República, Palácio de Belém, Lisbon 3, Portugal. *Telephone:* 63 71 41.

EARLE, Arthur Frederick, PH.D.; Canadian economist and business executive: b. 13 Sept. 1921, Toronto, Ont.; s. of Frederick Charles Earle and Hilda Mary (née Brown); m. Vera Domini Lithgow 1946; two s. one d.; ed. Univ. of Toronto and London School of Economics; Royal Canadian Navy 1939-46; Canada Packers Ltd. 1946-48; Aluminium Ltd. in British Guiana, West Indies and Canada 1948-53; Treas. Alumina Jamaica Ltd. 1953-55; Sales Exec., Aluminium Union, London 1955-58; Vice-Pres. Aluminium Ltd. Sales Inc., New York 1958-61; Deputy Chair. Hoover Ltd. 1961-65, Man. Dir. 1963-65, Dir. 1961-74; Principal, London Graduate School of Business Studies 1965-72; Pres. Int. Investment Corpn. for Yugoslavia 1972-74; Pres. Boyden Consulting Group Ltd. 1974-; Assoc., Boyden Associates 1974-; Chair. Canadian Assn. of Friends of L.S.E.; mem. The Consumer Council 1963-68; Gov. and mem. of Council of Management of Ditchley Foundation; Gov. Nat. Inst. of Econ. and Social Research 1968-74; Gov. L.S.E.; Fellow, London Business School. *Publications:* numerous economic and management publications. *Leisure interest:* hill climbing. *Address:* Boyden Associates, Suite 2701 Commerce Court North, P.O. Box 389, Toronto, Ont. M5L 1G3 (Office); Suite 1905, High Park Green, 50 Quebec Avenue, Toronto, Ont. M6P 2T6; 144 Regent Street, Niagara-on-the-Lake, Ontario, Canada (Homes). *Telephone:* (416)869-3848 (Office); (416)767-7221; (416)468-3119 (Homes).

EARLE, Ion, B.A., T.D.; British discount banker; b. 12 April 1916, Neath, Glamorgan; s. of Stephen Earle and Beatrice (née Blair White); m. Elizabeth Dain Stevens 1946; one s. one d.; ed. Stowe School, Univ. Coll., Oxford and Univ. of Grenoble. Head of Regional Org., Fed. of British Industries 1952-60; Chief Exec., Export Council for Europe 1960-64; Dir. British Nat. Export Council 1964-66, Deputy Dir.-Gen. 1966-71; joined Kleinwort Benson Ltd. 1972; Clive Discount Co. Ltd. 1973-. *Leisure interests:* golf, gardening, travel. *Address:* 5 McKay Road, London, S.W.20, England.

EASON, Henry, C.B.E., J.P., B.COM., F.I.B.; British banking administrator; b. 12 April 1910, Middlesbrough; s. of late H. and F.J. Eason; m. Florence Isobel Stevenson 1939; one s. two d.; ed. Yarm and King's Coll., Univ. of Durham; barrister; Lloyds Bank Ltd. until 1939; Royal Air Force (Wing Cmmdr.), Second World War; Sec.-Gen. Inst. of Bankers 1959-71, a Vice-Pres. 1969-75, Hon. Fellow 1971. *Leisure interests:* golf, travel, reading. *Address:* 12 Redgate Drive, Hayes Common, Bromley, Kent, BR2 7BT, England.

EASTLAND, James O.; American politician; b. 28 Nov. 1904; ed. Univs. of Mississippi and Alabama and Vanderbilt Univ.; admitted to Mississippi Bar 1927; practised law; mem. Mississippi House of Reps. 1928-32; Senator from Miss. 1943-79; Pres. of Senate 1972-79; Democrat. *Address:* 5116 Macomb Street, Washington, D.C. 20016, U.S.A.

EASTWOOD, Clint; American actor; b. 31 May 1930, San Francisco; s. of Clinton and Ruth Eastwood; m. Maggie Johnson 1953; one s. one d.; ed. Los Angeles City Coll.; worked as lumberjack, Ore.; army service; appeared in TV series Rawhide 1959-75; owner Malpaso Productions 1969-; mem. Nat. Arts Council 1973. *Films appeared in include* Revenge of the Creature 1955, Francis in the Navy 1955, Lady Godiva 1955, Tarantula 1955, Never Say Goodbye 1956, The First Travelling Saleslady 1956, Star in the Dust 1956, Escapade in Japan 1957, Ambush at Cimarron Pass 1958, Lafayette Escadrille 1958, A Fistful of Dollars 1964, For a Few Dollars More

1965, The Good, the Bad and the Ugly 1966, The Witches 1967, Hang 'Em High 1968, Coogan's Bluff 1968, Where Eagles Dare 1969, Paint Your Wagon 1969, Kelly's Heroes 1970, Two Mules for Sister Sara 1970, The Beguiled 1971, Play Misty for Me (also dir.) 1971, Dirty Harry 1971, Joe Kidd 1972, High Plains Drifter (also dir.) 1973, Magnum Force 1973, Thunderbolt and Lightfoot 1974, The Eiger Sanction 1975, The Outlaw Josey Wales 1976, The Enforcer 1976, The Gauntlet 1978, Every Which Way But Loose 1978; dir. film Breezy 1973. *Address:* c/o Universal Studios, Universal City, Calif. 91608, U.S.A.

EASUM, Donald B., M.P.A., PH.D.; American diplomatist; b. 27 Aug. 1923, Culver, Ind.; s. of Chester and Norma Brown Easum; m. Augusta Pentecost 1954; three s. one d.; ed. Univ. of Wisconsin, Princeton and London Univs; Reporter New York Times 1949; joined Foreign Service 1953; held diplomatic posts in Nicaragua 1955-57, Indonesia 1957-59, Senegal 1963-66, Niger 1966-67; Exec. Sec. Agency for Int. Devt., Dept. of State 1961-63; Staff Dir. Interdept. Group for Inter-American Affairs 1969-71; Amb. to Upper Volta 1971-73; Asst. Sec. of State for African Affairs 1974-75; Amb. to Nigeria March 1975-. *Publications:* articles on Argentina and Southern Africa. *Leisure interests:* singing, tennis, table tennis, gardening. *Address:* American Embassy, 1 King's College Road, Lagos, Nigeria.

EBAN, Abba, M.A.; Israeli politician; b. (as Aubrey Solomon) 2 Feb. 1915, Cape Town, South Africa; s. of Avram Eban and Alida Solomon; m. Susan Ambache 1945; one s. one d.; ed. Queens' Coll., Cambridge. Research Fellow and Tutor for Oriental Languages, Pembroke Coll. 1938; apptd. Liaison Officer of Allied H.Q. with the Jewish population in Jerusalem for training volunteers 1942; Chief Instructor at the Middle East Arab Centre in Jerusalem 1944; entered service of Jewish Agency 1946; apptd. Liaison Officer with UN Special Comm. on Palestine 1947; apptd. by the Provisional Govt. of Israel as its rep. in the UN 1948, Perm. Rep. 1949-59, Vice-Pres. Gen. Assembly 1953; Amb. to U.S.A. 1950-59; elected to Knesset 1959, Minister without Portfolio 1959-60, Minister of Educ. and Culture 1960-63, Deputy Prime Minister 1963-66, Minister of Foreign Affairs 1966-74; Guest Prof. Columbia Univ. 1974; Pres. Weizmann Inst. of Science 1958-66; Vice-Pres. UN Conf. on Science and Technology in Advancement of New States 1963, mem. UN Advisory Cttee. on Science and Technology for Devt., Inst. for Advanced Study, Princeton Univ. 1978; Fellow World Acad. of Arts and Sciences, Fellow American Acad. of Arts and Sciences, Hon. L.H.D., Hon. Ph.D., Hon. Dr. (Univs. of New York, Boston, Maryland, Cincinnati, Temple, etc.). *Publications:* The Modern Literary Movement in Egypt 1944, Maze of Justice 1946, The Toynbee Heresy 1955, Voice of Israel 1957, Tide of Nationalism 1959, Chaim Weizmann: A Collective Biography 1962, Reality and Vision in the Middle East (Foreign Affairs) 1965, Israel in the World 1966, My People 1968, My Country 1973, Autobiography 1978; numerous articles in English, French, Hebrew and Arabic. *Address:* The Knesset, Jerusalem, Israel.

EBERHARD, Wolfram, PH.D.; American professor of sociology; b. March 1909, Potsdam, Germany; s. of Prof. Gustav and Gertrud (née Müller) Eberhard; m. Alide Roemer 1934; two s.; ed. School of Oriental Languages, Berlin, and Univ. of Berlin; Prof. of Chinese History and Language Ankara Univ., Turkey 1937-48; Prof. of Sociology, Univ. of Calif. (Berkeley) 1948-76; Guggenheim Fellow; Corresp. mem. Acad. of Sciences and Literature, Mainz, Bavarian Acad. of Sciences, Munich, and the China Acad., Taiwan; Fellow American Folklore Assn. *Publications:* Settlement and Social Change in Asia 1967, Moral and Social Values of the Chinese 1971, The Chinese Silver Screen 1972, Studies in Hakka Folktales 1974, History of China (revised edition) 1976. *Leisure interest:* ranching. *Address:* Department of Sociology, University of California, Berkeley, Calif. 94720 (Office); 863 Arlington Boulevard, El Cerrito, Calif. 94530, U.S.A. (Home). *Telephone:* (415) 642-4295 (Office); (415) 524-7620 (Home).

EBERHART, Richard, M.A., LITT.D.; American poet; b. 5 April 1904, Austin, Minn.; s. of late Alpha La Rue Eberhart and late Lena Lowenstein; m. Helen Elizabeth Butcher 1941; one s. one d.; ed. Univ. of Minnesota, Dartmouth Coll., St. John's Coll., Cambridge and Harvard Univ; United States Naval Reserve World War II, rose to Lieut.-Commdr.; Asst. Man. Butcher Polish Co. 1946, now Hon. Vice-Pres. and mem. of Board of Dirs.; Master of English, St. Mark's School, Southborough, Mass. 1933-41, Cambridge School, Kendal Green, Mass. 1941-42; Visiting Prof. of English and Poet in residence, Univ. of Washington 1952-53; Prof. of English, Univ. of Connecticut 1953-54; inaugural Visiting Prof. of English, Poet in residence, Wheaton Coll., Norton, Mass. 1954-55; Resident Fellow in Creative Writing, Christian Gauss Lecturer, Princeton 1955-56; Prof. of English, Poet in residence, Dartmouth 1956-, Class of 1925 Prof. 1968-70, Emer. 1970-; Distinguished Visting Prof., Univ. of Florida, Gainesville 1974, Adjunct Prof. 1977; Adjunct Prof., Colombia Univ. 1975; Regents' Prof., Univ. of Calif., Davis 1975; mem. Advisory Cttee. on Arts for Nat. Cultural Center, Washington (now John F. Kennedy Center for Performing Arts) 1959; Consultant in Poetry, Library of Congress 1959-61; mem. Nat. Inst. Arts and Letters 1960, Peace Corps Mission to Kenya Aug. 1966, American Acad. Arts and Sciences 1967; Founder and Pres. Poets' Theatre Inc., Cambridge, Mass. 1951; Fellow of Acad. of American Poets 1969; Hon. Consultant in American Letters, Library of Congress 1963-66, 1966-69; Hon. Pres. Poetry Society of America 1972, London Poetry Int. 1973, Third World Congress of Poets, Baltimore 1976; D.Lit., Dartmouth 1954, Skidmore 1966, Wooster 1969, Colgate 1974; Harriet Monroe Memorial Prize 1950, Shelley Memorial Prize 1951, Bollingen Prize 1962, Pulitzer Prize 1966. Nat. Book Award 1977, Pres.'s Medallion, Univ. of Fla. 1977; *Publications:* A Bravery of Earth 1930, Reading the Spirit 1937, Song and Idea 1942, Poems New and Selected 1944, Burr Oaks 1947, Brotherhood of Men 1949, An Herb Basket 1950, Selected Poems 1951, Undercliff 1953, Great Praises 1957, Collected Poems 1930-60 1960, Collected Verse Plays 1962, The Quarry 1964, Selected Poems 1930-65 1965, New Directions 1965, Thirty One Sonnets 1967, Shifts of Being 1968, Fields of Grace 1972, Collected Poems 1930-1976 1976, Poems to Poets 1976, To Eberhart from Ginsberg 1976, Selected Prose 1977. *Leisure interests:* cruising on coast of Maine and swimming. *Address:* 5 Webster Terrace, Hanover, New Hampshire 03755, U.S.A. *Telephone:* (603) 643-2938.

EBERLE, Josef; German newspaper publisher; b. 1901, Rottenburg, Neckar; s. of Josef and Berta (née Entress) Eberle; m. Else Lemberger 1929; ed. Grammar School, Rottenburg; fmr. bookseller; with Radio Stuttgart until 1933; served American consulate, Stuttgart until 1942; publisher Stuttgarter Zeitung 1945-71, mem. of the Board; Pres. Württemberger Bibliotheksgesellschaft, Stuttgart-Marbach; mem. Deutsche Akad. Darmstadt; Prof. Dr. phil. h.c. Tübingen. *Publications:* Interview mit Cicero, Laudes, Stunden mit Ovid, Ovid, Heilmittel (translation), Amores (Latin poetry), Sal Niger (100 Epigrams, Latin and German), Lateinische Nächte, Caesars Glatze (essays), Aller Tage Morgen (autobiography). *Leisure interests:* collecting antique bronzes, Latin poetry, incunabula. *Address:* Rosengartenstrasse 9, 7 Stuttgart-Frauenkopf, Federal Republic of Germany. *Telephone:* 42 6696.

EBERLE, William Denman; American executive; b. 5 June 1923, Boise, Ida.; s. of J. Louis and Clare (née Holcomb) Eberle; m. Jean C. Quick 1947; three s. one d.; ed. Stanford Univ., Harvard Univ. Graduate School of Business and Harvard Law School; admitted Ida. bar 1950; partner Richards, Haga and Eberle (law firm) 1950-60; Dir. Boise Cascade Corpn. 1952-68, Sec. 1960-65, Vice-Pres. 1961-66; Pres., Chief Exec. Officer and Dir. American Standard Inc. 1966-71; Special Rep. of U.S. Govt. for Trade Negotiations 1971-74; Exec. Dir. Council on Int. Econ. Policy 1974; Pres., Chief Exec. Officer Motor Vehicle Manufacturers' Assn. 1975-77; fmr. Dir. Atlantic Group of Insurance Cos., PPG Industries, Fed. Reserve Bank of New York, Nat. Industrial Conf. Board; Dir. Mitchell Energy Corpn., Metropolitan Greetings, Inc., Microtek Corpn.; Trustee Cttee. for Economic Devt.; Pres. U.S. Council, Int. Chamber of Commerce; mem. Ida. House of Reps. 1953-63; mem. American and Ida. Bar Asscns; Trustee, Stanford Univ.; Co-Chair. Nat. Urban Coalition. *Address:* Masconomo Street, Manchester, Mass. 01944, U.S.A.

EBERT, Carl (Anton Charles), C.B.E.; American opera director, b. 20 Feb. 1887, Berlin, Germany; s. of Wilhelm and Maria Ebert; m. 1st Lucie Splisgarth 1912 (dissolved 1923), one s. (Peter Ebert, q.v.) one d. (died 1946); m. 2nd Gertrude Eck 1924, one s. two d.; ed. Max Reinhardt's School of Dramatic Art, Berlin; began career as actor at Max Reinhardts Deutsches Theater, Berlin 1909-14; Schauspielhaus, Frankfurt a.M. 1915-22, Staatstheater, Berlin 1922-27; Founder, Dir., teacher in Schools of Dramatic Art in Frankfurt 1919, and Berlin (Prof.) 1925; acted in silent films, recited European Literature; parts included Faust, Egmont, Lear, Brutus, Petruchio, Peer Gynt, etc.; Gen. Dir. and Producer, Hess. Landestheater 1927-31, Städtische Oper, Berlin 1941-33; left Germany because of Nazi régime March 1933, acted Zürich and Basel, Guest Producer Basel, Salzburg Festival, State Opera and Burgtheater Vienna, Arena Verona 1932-38; Maggio Musicale Florence 1933-37, Teatro Colon Buenos Aires 1933-36; Artistic Dir. and Producer Glyndebourne Opera 1934-59, of Glyndebourne productions at Edinburgh Festivals 1947-55; Adviser to Turkish Ministry of Educ., Founder Dir. (and teacher) Turkish State School of Opera and Drama, Ankara 1936- and Turkish Nat. Theatre, Ankara 1939-47; Prof. and Head Opera Dept., Univ. of Southern Calif., Los Angeles 1948-54; Artistic Dir. and Producer Guild Opera Co., Los Angeles

1950-; Gen. Dir. and Producer Städtische Oper, Berlin 1954-61; Pres. German section of Int. Theatre Inst., Berlin 1956-61; Guest Producer London, Milan, Ankara, Venice, Paris, New York, Copenhagen 1947-59; Biennale world première Stravinsky's The Rake's Progress; Producer Metropolitan Opera New York, Glyndebourne Opera England, also Zürich, Ireland, Copenhagen, Deutsche Oper, Berlin 1961-67; numerous hon. degrees and decorations. *Leisure interests:* travel, gardening. *Address:* 809 Enchanted Way, Pacific Palisades, Calif. 90272, U.S.A.

EBERT, Friedrich; German politician; b. 12 Sept. 1894, Bremen; ed. elementary and secondary schools; book printer by trade; joined Social Democratic Party (SPD) 1913; war service in First World War; Editor of Brandenburger Zeitung 1925-33; mem. of Reichstag 1928-33; imprisoned in concentrations camps; official of SPD 1945; elected to Brandenburg Diet as mem. of Socialist Unity Party (SED) 1946, mem. Politburo 1950-; mem. German-Soviet Friendship Soc. 1950-58; mem. State Council 1960-, now Vice-Chair.; Pres. of Diet 1964; elected to German People's Council March 1948; Lord Mayor of Berlin (Eastern Sector) 1948-67; mem. of the Volkskammer 1950-; Karl-Marx-Order (twice), Vaterländischer Verdienstorden in Gold (twice) and other decorations. *Address:* Wahnschaffestrasse 11, Berlin-Pankow, German Democratic Republic.

EBERT, James David, PH.D.; American embryologist; b. 11 Dec. 1921, Bentleyville, Pa.; s. of Alva Charles Ebert and Anna Frances Brundege; m. Alma Christine Goodwin 1946; one s. two d.; ed. Washington and Jefferson Coll. and Johns Hopkins Univ.; Faculty, Mass. Inst. of Tech. 1950-51, Indiana Univ. 1951-55; Dir. Dept. of Embryology at Carnegie Inst. of Washington 1956-76; Prof. of Biology at Johns Hopkins Univ. and Prof. of Embryology at Johns Hopkins Univ. School of Medicine 1956-78; Dir. Marine Biological Lab. 1970-75, 1977-78, Pres. 1970-78; Pres. Carnegie Inst. of Washington 1978-; Chair. Assembly of Life Sciences 1973-77; Trustee, Jackson Lab.; mem. Nat. Acad. of Sciences; mem. Philosophical Soc.; Fellow, American Acad. of Arts and Sciences; First Distinguished Service Award, Washington and Jefferson Coll. 1965, Eminent Scientist Award, Japan Soc. for the Promotion of Science 1972, Pres. Medal, American Inst. of Biological Sciences 1972; Hon. Sc.D. (Yale, Indiana and Washington and Jefferson Coll). *Publications:* The Biology of Ageing (Co-editor) 1960, Interacting Systems in Development (Co-author) 1965, 1970, Biology (Co-author) 1973, Tests of Teratogenicity in Vitro (Co-editor) 1976, Mechanisms of Cell Change (Co-editor) 1979, professional articles. *Address:* Office of the President, Carnegie Institution of Washington, 1530 P Street N.W., Washington D.C. 20005 (Office); 2101 Connecticut Avenue, Washington D.C. 20008, U.S.A. (Home). *Telephone:* (202) 387-6400 (Office).

EBERT, Peter; British (naturalized) opera director; b. 6 April 1918, Frankfurt-am-Main, Germany; s. of Carl Ebert (*q.v.*) and Lucie Oppenheim; m. 1st Kathleen Havinden 1944, two d.; m. 2nd Silvia Ashmole 1951, five s. three d.; ed. Salem School, Germany, and Gordonstoun, Scotland; Intendant, Stadttheater Bielefeld, Germany 1973-75, Intendant, Wiesbaden State Theatres 1975-77; Dir. of Productions, Scottish Opera 1965-76; Producer, Guild Opera Co., Los Angeles 1962-76; Gen. Admin. Scottish Opera 1977-. *Leisure interests:* raising a family. *Address:* 4 Kirklee Gardens, Glasgow, G12 0SG, Scotland. *Telephone:* 041-357 2252.

EBTEHAJ, Abol Hassan; Iranian banker and administrator; b. 29 Nov. 1899, Rasht, Iran; s. of Ebrahim and Fatima Ebtehaj; m. 1st Mariam Nabavi 1929, 2nd Azarnoosh Sani 1956; one s. one d.; ed. Paris and Beirut; joined Imperial Bank of Iran 1920; Govt. Inspector Agricultural Bank and Controller of State-owned Cos. 1936; Vice-Gov. Bank Melli Iran 1938; Chair. and Man. Dir. Mortgage Bank 1940; Gov. Bank Melli Iran (National Bank of Persia) 1942-50; Chair. Persian Del. Middle East Financial and Monetary Conf., Cairo 1944; Chair. Persian Del. Bretton Woods Conf. 1944; Amb. to France 1950-52; Adviser to Man. Dir. Int. Monetary Fund 1952; Dir. Middle East Dept., Int. Monetary Fund 1953; Man. Dir. Plan Organization (Devt. Board), Teheran 1954-59; Chair. and Pres. Iranians' Bank (private bank) 1959-72; Chair. 1972-77; Chair. Iran American Int. Insurance Co. 1974-79. *Leisure interests:* golf, tennis. *Address:* c/o Iran America International Insurance Co., Kooh Noor Avenue, Corner of 7th Street, 48 Teheran, Iran. *Telephone:* 625941 (Office); 628272/621134 (Home).

ECCLES, 1st Viscount (cr. 1964), of Chute, 1st Baron (cr. 1962); **David McAdam Eccles,** K.C.V.O., P.C., M.A.; British politician; b. 18 Sept. 1904, London; s. of William McAdam Eccles M.S., F.R.C.S. and Anna Coralie Anstie; m. Hon. Sybil Frances Dawson 1928 (died 1977); two s. one d.; ed. Winchester and New Coll., Oxford; mem. staff Central Mining and Investment Corpn. 1923-39; joined Ministry of Econ. Warfare Sept. 1939; Econ. Adviser to H.M. Ambs. in Madrid and Lisbon 1939-42; Ministry of Production 1942-43; Conservative M.P. for Chippenham Div. of Wilts. 1943-62; Minister of Works 1951-54, of Educ. 1954-57; Pres. Board of Trade 1957-59; Minister of Educ. 1959-62; Paymaster-Gen. with responsibility for the Arts 1970-73; Chair. Trustees of British Museum 1963-70, of British Library 1973-78; Pres. World Crafts Council 1974-78. *Publications:* Wages on the Farm, 1945, Half-Way to Faith 1966, Life and Politics 1967, On Collecting 1968. *Address:* Dean Farm, Chute, nr. Andover, Hampshire, England.

ECCLES, Sir John Carew, Kt., M.B., B.S., D.PHIL., F.R.A.C.P., F.R.S.N.Z., F.A.A., F.R.S.; Australian research physiologist; b. 27 Jan. 1903, Melbourne; s. of William James and Mary (née Carew) Eccles; m. 1st Irene Frances Miller 1928 (divorced 1968), four s. five d.; m. 2nd Helena Táboříková 1968; ed. Melbourne Univ., Magdalen Coll., Oxford; Rhodes Scholar 1925; Junior Research Fellow, Exeter Coll., Oxford 1927-32, Staines Medical Fellow 1932-34; Fellow and Tutor, Magdalen Coll., Oxford, lecturer in physiology 1934-37; Dir. Kanematsu Memorial Inst. of Pathology, Sydney, Australia 1937-43; Prof. of Physiology, Otago Univ., New Zealand 1944-51, Australian Nat. Univ., Canberra 1951-66; AMA/ERF Inst. for Biomedical Research, Chicago 1966-68; at State Univ. of N.Y. at Buffalo 1968-75; Waynflete Lecturer, Oxford 1952; Herter Lecturer, Johns Hopkins Univ., Baltimore 1955; Gifford Lecturer, Edinburgh University 1977-79; Foreign Hon. mem. American Acad. of Arts and Sciences, Accademia Nazionale dei Lincei, Deutsche Akad. der Naturforscher (Leopoldina); mem. Pontifical Acad. of Sciences, American Philosophical Soc., National Acad. of Sciences, Indian Acad. of Sciences, Royal Acad. of Belgium, Max-Planck-Inst. für Biophysikalisch, Chemie, Göttingen; Ferrier Lecturer, Royal Soc. 1960; Pres. Australian Acad. of Science 1957-61; Hon. Fellow Exeter Coll. and Magdalen Coll. Oxford, Hon. Fellow New York Acad. of Sciences; Hon. Sc.D. (Cambridge, Tasmania, Univ. British Columbia, Gustavus Adolphus Coll., Marquette, Loyola, Yeshiva, Oxford), Hon. M.D. (Charles Univ., Prague), Hon. LL.D. (Melbourne); Cothenius Medal; Royal Medal, Royal Soc. 1962, Nobel Prize for Medicine 1963. *Publications:* Reflex Activity of the Spinal Cord (in collaboration) 1932, Neurophysiological Basis of Mind 1953, Physiology of Nerve Cells 1957, Physiology of Synapses 1964, The Cerebellum as a Neuronal Machine 1967, Inhibitory Pathways of the Central Nervous System 1969, Facing Reality 1970, The Understanding of the Brain 1973, The Self and its Brain (with Sir Karl Popper) 1977, Molecular Microbiology of the Mammalian Brain 1978, The Human Mystery 1979, Sherrington, His Life and Thought 1979. *Leisure interests:* philosophy, art, European travel. *Address:* Ca' a la Gra', CH 6611 Contra, Ticino, Switzerland. *Telephone:* 093-67 29 31.

ECEVIT, Bülent, B.A.; Turkish journalist and politician; b. 28 May 1925, Istanbul; s. of late Prof. Fahri Ecevit, M.P. and Nazli Ecevit; m. Rahsan Ecevit 1946; ed. Robert Coll., Istanbul, Ankara, London and Harvard Univs.; govt. official 1944-50, Turkish Press Attaché's Office, London 1946-50; Foreign News Editor, Man. Editor, later Political Dir. Ulus (Ankara) 1950-61, Political Columnist, Ulus 1956-61; M.P. (Republican People's Party) 1957-60, Oct. 1961–; mem. Constituent Assembly 1961; Minister of Labour 1961-65; Political Columnist Milliyet 1965; Prime Minister Jan.-Nov. 1974, June-July 1977, Jan. 1978-; Sec.-Gen. Republican People's Party 1966-71, Chair. 1972-; mem. Turkish Philosophical Soc., Turkish Language Assen., Ankara Journalists' Assen. *Publications:* Ortanin Solu (Left of Centre) 1966, Bu Düzen Değismelidir (The System Must Change) 1968, Atatürk ve Devrimeilik (Atatürk and Revolution) 1970, Sohbet (conversations), Demokratik Sol (Democratic Left) 1974, Dis Politika (Foreign Policy) 1975, Işçi-Köylü Elele (Workers and Peasants Together) 1976, Şiirler (Poems) (German and Romanian trans.) 1976; Translations into Turkish: Gitanjali (R. Tagore) 1941, Straybirds (R. Tagore) 1943, Cocktail Party (T. S. Eliot) 1963. *Leisure interets:* art and literature. *Address:* Office of the Prime Minister, Ankara; Or-An Sehri, Ankara, Turkey. (Home). *Telephone:* 28 31 20 (Party Headquarters), 17 69 66 (Parliament).

ECHANDI JIMÉNEZ, Mario, LL.D.; Costa Rican diplomatist and politician; b. 1915; ed. Univ. de Costa Rica; legal career 1938-47; Sec.-Gen. Partido Unión Nacional 1947; Amb. to U.S.A. 1950-51, 1966-68; Minister for Foreign Affairs 1951-53; Pres. of Costa Rica 1958-62; defeated candidate in Pres. election Feb. 1970. *Address:* San José, Costa Rica.

ECHEVERRIA ALVAREZ, Lic. Luis; Mexican lawyer and politician; b. 17 Jan. 1922; ed. Univ. Nacional Autónoma de México. Private Sec. to Pres. of Exec. Cttee. of Partido Revolucionario Institucional (PRI) 1940-52, also Dir. of Press and Propaganda, PRI 1949-52; Dir. of Accounts and Admin., Sec. of Marine 1952-54; Senior Official, Sec. of Public Educ. 1954-57; Senior Official, Central Exec. Cttee. of PRI 1957; Under-Sec. of Interior 1958-63, Sec. of

Interior 1963-70; Asst. Prof. of Law, Univ. Nac. Antónoma de México; Pres. of Mexico 1970-76; mem. Exec. Council UNESCO 1977-, Amb. at Large 1977-78, to Australia (also accred. to New Zealand) 1979-. *Address:* Mexican Embassy, 1 Beagle Street, Red Hill Canberra, A.C.T. 2603, Australia.

ECKERBERG, Per, PH.D.; Swedish civil servant; b. 17 Aug. 1913; m. Dr. Inga Folin 1947; two c.; ed. Univ. of Lund; Sec., Public Comm. on Population 1944-46; Ministry of Social Affairs 1948-50, Under-Sec. of State 1950-56; Gov., Province of Ostergötland 1956–; Pres. of Bd., Swedish Broadcasting Corpn. 1955-76; Rep. to ILO Confs. 1951-57; Pres. Bank of Sweden 1956-57; Pres. of Board, Göta Canal 1957-; Pres. Swedish Savings Bank Assn. 1961, Nat. Supplementary Pensions Fund 1960-, Cttee. for Labour Market Policy 1961, Cttee. for Public Information 1968, Cttee. for Industrial Policy 1969, Cttee. for Multinational Entreprises 1974; Editor Tiden 1947-49. *Leisure interests:* fishing, sailing. *Address:* Castle of Linköping, Linköping, Sweden.

ECKERT, J. Presper, Jr., M.A.; American engineer; b. 9 April 1919; ed. William Penn Charter School and Univ. of Pennsylvania; Research Assoc., Moore School of Electrical Eng., Univ. of Pa 1941-46; co-designer, co-inventor Electronic Numerical Integrator and Calculator—ENIAC (with Dr. J. W. Mauchly) 1942-46; Co-designer, co-inventor automatic computers BINAC 1946-49, UNIVAC 1948-51; Partner, Electronic Control Co. 1946-47; Vice-Pres. Eckert-Mauchly Computer Corpn. 1947-50; Dir. of Eng., Eckert-Mauchly Div. Remington Rand Inc. 1950-54; Vice-Pres. (Eng.) Remington Rand Inc. 1954-55; now Vice-Pres. UNIVAC Div., Sperry Rand Corpn. *Address:* P.O. Box 500, Blue Bell, Pa. 19422, U.S.A.

ECKSTEIN, Otto, PH.D.; American economist; b. 1 Aug. 1927, Ulm, Germany; m. Harriett Mirkin 1954; one s. two d.; ed. Princeton and Harvard Univs.; U.S. Army 1946-47; Instructor, Harvard Univ. 1955-57, Asst. Prof. 1957-60, Assoc. Prof. 1960-63, Prof. of Econs 1963-; Technical Dir., Study of Employment, Growth and Price Levels, Joint Econ. Cttee., U.S. Congress 1959-60; mem. Council of Econ. Advisers, Exec. Office of the Pres. 1964-66; mem. Nat. Advisory Council on Econ. Opportunity 1967-69; Pres. Data Resources Inc. 1969-. *Publications:* Water Resource Development: The Economics of Project Evaluation 1958, Multiple Purpose River Development (with J. V. Krutilla) 1958, Staff Report on Employment, Growth, and Price Levels (with others) 1959, Economic Policy in Our Time: An International Comparison (with others) 1964, Public Finance: Budgets, Taxes, Fiscal Policy 1964. *Address:* Department of Economics, Littauer Center, Harvard University, Cambridge, Mass. 02138, U.S.A.

ECO, Umberto; Italian university professor; b. 5 Jan. 1932; s. of Giulio Eco and Giovanna Bisio; m. Renate Ramge 1962; two c.; ed. Univ. degli Studi, Turin; with Italian Television 1954-59; Asst. Lecturer in Aesthetics, Univ. of Turin 1956-63, Lecturer 1963-64; Lecturer Faculty of Architecture, Univ. of Milan 1964-65; Prof. of Visual Communications, Univ. of Florence 1966-69; Prof. of Semiotics, Milan Polytechnic 1970-71, Univ. of Bologna 1971-; Visiting Prof. New York Univ. 1969-70, 1976, Northwestern Univ. 1972, Yale Univ. 1977, Columbia Univ. 1978; Columnist on L'Espresso 1965; Editor VS 1971-. *Publications:* Il Problema Estetico in San Tommaso 1956, Sviluppo dell'Estetica Medioevale 1959, Opera Aperta 1962, Diario Minimo 1963, Apocalittici e Integrati 1964, L'Oeuvre Ouverte 1965, La Struttura Assente 1968, Il Costume di Casa 1973, Trattato di Semiotica Generale 1975, A Theory of Semiotics 1976, The Role of the Reader 1979. *Address:* Via Melzi d'Eril 23, Milan, Italy. *Telephone:* 34-78-06.

ECOCHARD, Michel Marie Léon, D.P.L.G.; French townplanner and architect; b. 11 March 1905, Paris; s. of Georges and Jeanne Ecochard (née Bataille); m.; five c.; Chief Architect for civic bldgs. and nat. palaces, Dir. of Urbanization, Morocco 1946-53; Chief Architect of Univs. of Ivory Coast and Cameroon; Grand Prix d'Architecture du Cercle d'Études Architecturales 1964, Médaille d'Or de Créateur de la Societé d'Encouragement à l'Art et à l'Industrie 1967. *Publications:* Casablanca, le roman d'une ville 1955, numerous architectural articles in reviews including L'architecture d'aujourd'hui 1946-74, Techniques et architecture 1974-, Syrie, Bulletin de l'Institut français de Damas, Bulletin des études islamiques. *Address:* 55 boulevard du Montparnasse, 75006, Paris, France. *Telephone:* 548-37-86.

EDBERG, Rolf; Swedish journalist, diplomatist and administrator; b. 14 March 1912, Lysvik; s. of C. F. and Mandis Edberg; m. Astrid Persson 1937; one s. two d.; Chief Editor Oskarshamns Nyheter 1934-37; Asst. Editor Östgöten, Linköping 1938-40, Chief Editor 1941-45; Chief Editor Ny Tid, Gothenburg 1945-46; mem. Parl. 1941-44 and 1949-56; Del. to UN 1952-61; Amb. to Norway 1956-67; Gov. Province of Värmland 1967-77; Rep. to Council of Europe 1949-52, to Scandinavian Council 1953-56; Pres. Swedish Press Club 1951-53; Del. Disarmament Conf. 1962-65; Pres. Stockholm Int. Peace Inst. 1973-78; Environmental Cttee., Acad. of Sciences 1974; Hon. Ph.D. 1974. *Publications:* On the Shred of a Cloud 1966, At the Foot of the Tree 1972, Letters to Columbus 1973, On Earth's Terms 1974, A House in the Cosmos 1974, Spirit of the Valley 1976, Shadows across the Savanna 1977 and several other works on political and ecological subjects. *Address:* Hagtornsgaten 3, 652 30, Karlstad, Sweden. *Telephone:* 054-154525.

EDEL, (Joseph) Leon, M.A., D. ES L.; American writer and teacher; b. 9 Sept. 1907, Pittsburgh, Pa.; s. of Simon Edel and Fanny Malamud; m. Roberta Roberts 1950 (separated 1974); ed. Yorkton Collegiate Inst., Saskatchewan, McGill Univ. and Univ. of Paris; Graduate Asst. in English, McGill Univ. 1927-28; Asst. Prof. Sir George Williams Univ., Montreal 1932-34; journalism and broadcasting 1934-43; U.S. Army 1943-47; Adjunct Prof., New York Univ.; 1950-53, Assoc. Prof. 1953-55, Prof. of English 1955-66; Henry James Prof. of English and American Letters 1966-73, Citizens Prof. of English, Hawaii Univ. 1972-78; Visiting Fellow Humanities Research Centre, Canberra 1976; Vernon Prof. of Biography, Dartmouth Coll. 1977; Fellow, American Acad. of Arts and Sciences, Sec. Nat. Inst. of Arts and Letters 1965-67, Pres. U.S. PEN 1957-59, Council Authors' Guild 1966-68; Pres. Authors' Guild 1969-71; Fellow, Royal Soc. of Literature 1970, American Acad. of Arts and Letters 1972; mem. Soc. of American Historians, Modern Humanities Research Assn., Educational Advisory Board Guggenheim Foundation 1967-79; Advisory Cttee. Metropolitan Museum Centenary 1969-70; Hon. mem. William Alanson White Psychoanalytic Soc. 1967-; Hon. D.Litt. (Union Coll., Schenectady, N.Y., and McGill Univ.); Pulitzer Prize (biography) 1963, Nat. Book Award (non-fiction) 1963, Nat. Inst. of Arts and Letters Gold Medal for Biography 1976, Hawaii Writers Award 1977. *Publications:* The Life of Henry James (I The Untried Years 1953, II The Conquest of London 1962, III The Middle Years 1962, IV The Treacherous Years 1969, V The Master 1972), Willa Cather (with E. K. Brown) 1953, The Psychological Novel 1955, Literary Biography 1957; Editor: The Complete Plays of Henry James 1949, Selected Letters of Henry James 1955, The Complete Tales of Henry James (12 vols.) 1962-65, The Diary of Alice James 1964, Literary History and Literary Criticism 1964, The American Scene 1968, Henry D. Thoreau 1970, Henry James: Letters (I and II) 1974-75, Edmund Wilson: The Twenties 1975, Bloomsbury: A House of Lions 1979. *Leisure interests:* music, book collecting, swimming. *Address:* c/o William Morris Agency, 1350 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

EDELMAN, Gerald Maurice, M.D., PH.D.; American molecular biologist; b. 1 July 1929, New York; s. of Edward and Anna Freedman Edelman; m. Maxine Morrison 1950; two s. one d.; ed. Ursinus Coll., Univ. of Pennsylvania, and The Rockefeller Univ.; Medical House Officer, Mass. Gen. Hospital 1945-55; Capt., U.S. Army Medical Corps. 1955-56; Asst. Physician, Hospital of The Rockefeller Univ. 1957-60; Asst. Prof. and Asst. Dean of Graduate Studies, The Rockefeller Univ, 1960-63, Assoc. Prof. and Assoc. Dean of Graduate Studies 1963-66, Prof. 1966-74; Vincent Astor Distinguished Prof. 1974-; mem. The Harvey Society 1974-; Pres. 1975-76; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc.; Foreign mem. Acad. des Sciences; Fellow, New York Acad. of Sciences; Trustee, Rockefeller Brothers Fund; Non-res. Fellow and mem. Board of Trustees, Salk Inst. for Biological Studies; mem. Board of Overseers Faculty of Arts and Sciences, Univ. of Pa.; mem. Board Scientific Overseers, The Jackson Laboratory; mem. Advisory Cttee., Carnegie Inst. of Washington; mem. Genetics Soc.; mem. American Chem. Soc.; mem. Advisory Board, The Basel Inst. for Immunology 1970-77, Chair. 1975-77; mem. Board of Governors, Weizmann Inst. of Science, Israel; mem. American Soc. of Biological Chemists; mem. American Assn. of Immunologists; mem. American Soc. for Cell Biology, Soc. for Developmental Biology; Hon. mem. Japanese Biochemical Soc., Hon. D.Sc. Univ. of Pa. 1973; Hon. Sc.D. Ursinus Coll. 1974; Hon. M.D. Univ. of Siena, Italy 1974; Hon. D.Sc. Adolphus Coll., Minn. 1975, Sci. D. Williams Coll. 1976; Annual Alumni Award, Ursinus Coll. 1969, Eli Lilly Award in Biological Chem., American Chemical Soc. 1965, Spencer Morris Award, Univ. of Pa. 1954, Nobel Prize for Physiology or Medicine 1972 (with R. Porter *q.v.*), Albert Einstein Commem. Award of Yeshiva Univ. 1974, Buchman Memorial Award, Calif. Inst. of Tech. 1975, Rabbi Shai Shaknai Mem. Prize in Immunology and Cancer Research, Hebrew Univ.-Hadassah Medical School, Jerusalem 1977. *Publications:* about 200 articles in professional journals. *Leisure interests:* violin, chamber music. *Address:* The Rockefeller University, 1230 York Avenue, New York, N.Y. 10021 (Office); 35 East 85th Street, N.Y. 10028, U.S.A. (Home).

EDELMANN, Otto Karl; Austrian opera singer; b. 5 Feb. 1917, Vienna; m. Ilse-Maria Straub 1960; two s. one d.; ed. Realgymnasium and State Acad. of Music, Vienna; first opera appearances 1938; P.O.W. in U.S.S.R. two years during Second World War; mem. Vienna State Opera 1948-; with Salzburg Festival 1948-; perm. mem. Metropolitan Opera New York 1954-; took part in first Bayreuth Festival 1951; world-famous as Sachs in Die Meistersinger; Knight Order of Dannebrog, Austrian Gold Cross of Honour for Sciences and Arts. *Leisure interests:* painting and boxing. *Address:* Wien-Kalksburg 1238, Breitenfurterstrasse 547, Austria. *Telephone:* 88-55-63.

EDEN, Rt. Hon. Sir John, Bt., M.P.; British politician; b. 15 Sept 1925; M.P. for Bournemouth 1954-; Minister of State, Ministry of Technology July-Oct. 1970; Minister for Industry, Dept. of Trade and Industry 1970-72; Minister of Posts and Telecommunications 1972-74; Dir. Chesham Amalgamations and Investments, Assoc. Book Publishers Ltd.; mem. Board Cen. and Sherewood; Del. to Council of Europe and WEU 1960-62; mem. House of Commons Expenditure Cttee. 1974-76; Pres. Wessex Area Conservatives 1974-77, Wessex Area Young Conservatives 1978-; Chair. House of Commons Select Cttee. on European Legislation 1976-; Vice-Pres. Nat. Chamber of Trade 1974-; Hon. Vice-Pres. Nat. Assn. of Master Bakers 1978-; Conservative. *Address:* 29 Eldon Road, London, W.8, England.

EDGERTON, Harold Eugene, B.S., M.S., D.SC.; American scientist, inventor and teacher; b. 6 April 1903, Fremont, Neb.; s. of Frank Eugene Edgerton and Mary (Coe) Edgerton; m. Esther May Garrett 1928; two s. one d.; ed. Univ. of Neb. and Mass. Inst. of Technology; Research Asst. M.I.T. 1927-28, Instructor 1928-32, Asst. Prof. of Electrical Eng. 1932-38, Assoc. Prof. 1938-48, Prof. 1948-66, Inst. Prof. Emer. 1966-; Inventor of electronic flash (strobe) 1931; Co-Founder, E.G. & G. (fmrly. Edgerton, Germeshausen and Grier), Vice-Pres. 1947, Chair. of Board 1955-66, Hon. Chair. of Board 1966-; three expeditions to Einewetok for Atomic Energy Comm.; underwater camera devt. for Nat. Geographic Soc., Capt. Jacques Y. Cousteau, and Bathyscaphes FNRS 111, Tireste and Archimede; Fellow, Inst. of Electrical and Electronic Engineers, Photographic Soc. of America, Royal Photographic Soc. of Great Britain, Soc. of Motion Pictures and T.V. Engineers; mem. of numerous scientific insts. including American Acad. of Applied Science, Acad. of Underwater Arts and Sciences, American Acad. of Arts and Sciences, Nat. Acad. of Sciences, Nat. Acad. of Engineering, Woods Hole Oceanographic Inst.; Hon. Dr. Eng. (Univ. of Nebraska), Hon. LL.D. (Doane Coll., Univ. of S. Carolina) 1969; 28 awards including U.S. Camera Achievement Gold Medal 1951, E. I. duPont Gold Medal of Soc. of Motion Picture and TV Engineers 1962, Richardson Medal of Optical Soc. of America 1968, John Oliver LaGorce Gold Medal of Nat. Geographic Soc. 1968, Holley Medal, American Soc. of Mechanical Engineers 1973, Nat. Medal of Science 1973. *Publications:* Flash, Seeing The Unseen (with J. R. Killian) 1954, Electronic Flash, Strobe 1970, and 144 technical articles 1930-. *Leisure interests:* nature photography (particularly hummingbirds), deep-sea studies, guitar music, sonar searches for wrecks, geology. *Address:* Massachusetts Institute of Technology, Room 4-405, Cambridge, Mass. 02139 (Office); 100 Memorial Drive, Cambridge, Mass. 02142, U.S.A. (Home). *Telephone:* (617) 494-8783 (Office); (617) 864-4790 (Home).

EDINBURGH, H.R.H. The Prince Philip, Duke of, Earl of Merioneth and Baron Greenwich of Greenwich in the County of London (all titles cr. 1947), created Prince of the United Kingdom of Great Britain and Northern Ireland 1957, K.G., K.T., O.M., G.B.E.; b. 10 June 1921, Corfu; s. of H.R.H. the late Prince Andrew of Greece and Denmark, G.C.V.O. and of H.R.H. the late Princess (Victoria) Alice Elizabeth Julia Marie, R.R.C., elder d. of 1st Marquess of Milford Haven, G.C.B., G.C.V.O., K.C.M.G.; ed. Cheam School, Salem (Baden), Gordonstoun School and Royal Naval Coll., Dartmouth; served 1939-45 war with Mediterranean Fleet in Home Waters and with British Pacific Fleet in S.E. Asia and Pacific; renounced right of succession to the Thrones of Greece and Denmark and was naturalized a British subject 1947, adopting the surname of Mountbatten; m. 20 Nov. 1947 H.R.H. Princess Elizabeth (now H.M. Queen Elizabeth II), elder daughter of H.M. King George VI; Personal A.D.C. to H.M. King George VI 1948-52; Privy Councillor 1951-; Chancellor, Univ. of Wales 1948-76, Univ. of Edinburgh 1952-, Univ. of Cambridge 1977-; Admiral of the Fleet, F.M. and Marshal of the R.A.F. 1953-, of R.N.Z.A.F. 1978, Marshal of N.Z. Army 1978; Patron and Chair. of Trustees, Duke of Edinburgh's Award Scheme 1956-; Privy Councillor of Canada 1957-; Visitor, Royal Coll. of Art 1967-; Pres. numerous bodies, including English-Speaking Union of the Commonwealth 1952-, Royal Soc. of Arts 1952-, Commonwealth Games Federation 1955-, Royal Agricultural Soc. of the Commonwealth 1958-, British Medical Assn. 1959-60, Wildlife Trust 1960-65, 1972-77, World Wildlife Fund British Nat. Appeal 1961-, Council for Nat. Academic Awards 1965-75, Scottish Icelandic Assn. 1965-, The Maritime Trust 1969-79, Nat. Council of Social Service 1970-73, Australian Conservation Foundation 1971-76, David Davies Memorial Inst. of Int. Studies 1979-; Hon. LL.D. (Wales, London, Edinburgh, Cambridge, Karachi and Malta); Hon. D.C.L. (Durham and Oxford); Hon. D.Sc. (Delhi, Reading, Salford, Southampton and Victoria); Hon. Degree (Eng. Univ., Lima, Peru); Hon. Dr. of Law (Univ. of Calif. at Los Angeles) numerous awards and decorations from many countries. *Publications:* Birds from Britannia 1962, Wildlife Crisis (with late James Fisher) 1970, The Environmental Revolution: Speeches on Conservation 1962-77 1978. *Address:* Buckingham Palace, London, S.W.1, England.

EDMUND-DAVIES, Baron (Life Peer), cr. 1974; **Herbert Edmund Edmund-Davies,** LL.D., B.C.L.; British judge; b. (as Herbert Edmund Davies) 15 July 1906, Mountain Ash, Glam.; s. of Morgan John and Elizabeth Maud Davies (née Edmunds); m. Eurwen Williams-James 1935; three d.; ed. Mountain Ash Grammar School, King's Coll., London and Exeter Coll., Oxford; Lecturer and Examiner, London Univ. 1930-31; Army Officers' Emergency Reserve 1938, Infantry OCTU, later commissioned Royal Welch Fusiliers 1940; Q.C. 1943, Bencher 1948, Treas. 1965, 1966; Asst. Judge Advocate-Gen. 1944-45; Recorder Merthyr Tydfil 1942-44, Swansea 1944-53, Cardiff 1953-58; Judge of High Court of Justice, Queen's Bench Div. 1958-66; Lord Justice of Appeal 1966-74; Lord of Appeal in Ordinary 1974-; Chair. Lord Chancellor's Cttee. on Limitation of Actions 1961, Tribunal of Inquiry into Aberfan Disaster 1966, Council of Law Reporting 1967-72, Home Sec.'s Criminal Law Revision Cttee. 1969-77, Home Office Cttee, of Inquiry into Police 1977-79; Life mem. Canadian Bar Assn.; Trustee, CIBA Foundation; Hon. mem. Royal Soc. of Medicine (Library and Lay); Pres. Univ. Coll. of Swansea 1965-75; Pro-Chancellor Univ. of Wales 1974-; Life Gov. and Fellow, King's Coll., London; Hon. Fellow, Exeter Coll., Oxford; Hon. LL.D. (London and Wales), Hon B.C.L. (Oxford). *Address:* House of Lords, London, S.W.1; 5 Gray's Inn Square, London, WC1R 5EU. England. (Home).

EDLÉN, Bengt, DR.PHIL.; Swedish university professor; b. 2 Nov. 1906, Gusum; s. of Gustaf and Maria Edlén (née Rundberg); m. 1st Ruth E. Grönwall 1935, 2nd Elfriede I. Mühlbach 1940; one s. three d.; ed. Uppsala Univ.; Asst. Physics Dept., Uppsala Univ. 1928, Asst. Prof. 1934; Prof. of Physics, Lund Univ. 1944-73, Emer. Prof. 1973-; mem. Swedish, Danish, Norwegian Acads. of Sciences, Académie des Sciences, Paris, American Acad. of Arts and Sciences, etc.; Commdr. de l'Ordre des Palmes académiques; Hon. D.Sc.(Kiel); awards in recognition of research on atomic spectra with applications to astrophysical problems, including the solar corona, include: Arrhenius Gold Medal of Swedish Acad. of Sciences, Gold Medal of Royal Astronomical Soc., London, H. N. Potts Medal of Franklin Inst., Philadelphia, Mees Medal of Optical Soc. of America, Henry Draper Medal of Nat. Acad. of Sciences, Washington. *Leisure interests:* spectroscopy, gardening. *Address:* Physics Department, University of Lund, Lund, Sweden. *Telephone:* 046-111037.

EDSALL, John Tileston, A.B., M.D.; American professor of biological chemistry; b. 3 Nov. 1902, Philadelphia; s. of David Linn Edsall and Margaret Harding Tileston; m. Margaret Dunham 1929; three s.; ed. Harvard Coll., Harvard Medical School and Cambridge Univ.; Asst. Prof. of Biological Chem., Harvard Univ. 1932-38, Assoc. Prof. 1938-51, Prof. 1951-73, Prof. Emer. 1973; Editor-in-Chief Journal of Biological Chemistry 1958-67; Visiting Fulbright Lecturer, Cambridge 1952, Tokyo 1964; Visiting Prof., Coll. de France, Paris 1955; Spiers Memorial Lecturer, Faraday Soc., Cambridge 1952; Visiting Lecturer, Australian Nat. Univ., Canberra 1970; Scholar Fogarty Int. Center, Nat. Insts. of Health, Bethesda, Md. 1970-71; Guggenheim Fellow, Calif. Inst. of Technology 1940-41; Pres. American Soc. of Biological Chemists 1957-58, Sixth Int. Congress of Biochemistry, New York 1964; Chair. Survey of Sources for the History of Biochemistry and Molecular Biology 1975-; mem. Interunion Biothermodynamics Comm. 1973-78; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences, Deutsche Akad. der Naturforscher (Leopoldina), Royal Danish Acad. of Sciences; foreign mem. Royal Swedish Acad. of Sciences; Hon. Dr. Phil. Univ. of Gotëburg 1972; Hon Sc.D. (Western Reserve Univ., New York Medical Coll. and Univs. of Chicago and Mich.); Passano Foundation Award for Medical Research 1966, Willard Gibbs Medal (American Chemical Soc.) 1972. *Publications:* Proteins, Amino Acids and Peptides (with E. J. Cohn) 1943, Biophysical Chemistry (with J. Wyman) Vol. 1 1958, Aspects actuels de la biochimie des acides aminés et des proteines

1958, Advances in Protein Chemistry (Co-Editor) Vols. 1-32; numerous papers on chemistry of amino acids, proteins, and enzymes in Journal of American Chemical Soc., Journal of Biological Chemistry, et. *Leisure interests:* travel, photography, walking. *Address:* The Biological Laboratories, Harvard University, Cambridge, Mass. 02138 (Office); 985 Memorial Drive, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* (617) 495-2314 (Office); (617) 876-5007 (Home).

EDWARDES, Sir Michael Owen, Kt., B.A.; British company executive; b. 11 Oct. 1930, South Africa; s. of Denys Owen Edwardes and Audrey Noel (née Copeland); m. Mary Margaret Finlay 1958; three d.; ed. St. Andrew's Coll., Grahamstown, S.A., Rhodes Univ., S.A.; joined Chloride Group in S.A. as management trainee 1951, Man. Dir., Cen. Africa 1963, Dir. U.K. Bd. 1969, Chief Exec. 1972, Chair. and Chief Exec. 1974-77; Chair. and Chief Exec. of B. L. Ltd. (fmrly. British Leyland) Nov 1977-; mem. C.B.I. Council 1974–; mem. Nat. Enterprise Board 1975- (and of organizing cttee. 1975); mem. Econ. Devt. Cttee. for Electrical Eng. Industry 1975-, Queen's Award Review Cttee. 1975; F.B.I.M. (mem. Council 1974). *Leisure interests:* water skiing, sailing, squash, tennis. *Address:* Nuffield House, 41-46 Piccadilly, London, W1V 0BD, England. *Telephone:* 01-734 6080.

EDWARDS, Corwin D.; American university professor; b. 1 Nov. 1901, Nevada, Mo.; s. of Granville Dennis Edwards and Ida May Moore Edwards; m. 1st Janet Morris Ward 1924, 2nd Gertrud Berta Greig 1948; one s. one d.; ed. Univ. of Missouri, Oxford (England) and Cornell Univs.; Asst. Prof. of Econs., New York Univ. 1926-33; Economist and Technical Dir. Consumers Advisory Board, Nat. Recovery Administration 1933-35, Co-ordinator, Trade Practice Studies 1935; Economist President's Cttee. on Industrial Analysis 1936; Asst. Chief Economist, Fed. Trade Comm. 1937-39; Chief of Staff, American Technical Mission to Brazil 1942-43; Economist, Chair. Policy Board, Anti-Trust Div., Dept. of Justice 1939-44; Consultant on Cartels, Dept. of State 1943-48; Prof. of Econs. Northwestern Univ. 1944-48; Head Mission on Japanese Combines 1946; Dir. Bureau of Econs., Fed. Trade Comm. U.S.A. 1948-53; U.S. Rep. ad hoc Cttee. on Restrictive Practices of ECOSOC 1951-52; mem. Nat. Science Foundation Cttee. on Legal Effects of Computer Technology 1971-72; Pitt Prof. Univ. of Cambridge 1953-54, Prof. of Econs., Univ. of Va. 1954-55, Prof. of Business and Govt., Graduate School of Business, Univ. of Chicago 1955-63, Prof. of Econs., Univ. of Ore. 1964-71; Consultant, President's Asst. for Consumer Affairs 1966-67; mem. Consumers' Advisory Council 1967-69; Assoc. Editor Antitrust Bulletin 1969-. *Publications:* Co-author Economic Behavior 1931, Economic Problems in a Changing World 1939, A Cartel Policy for the United Nations 1945, The United States and International Markets 1972; author Maintaining Competition 1949, Big Business and the Policy of Competition 1956, The Price Discrimination Law: A Review of Experience 1959, Cartelization in Western Europe 1964, Trade Regulation Overseas: The National Laws 1966, Control of Cartels and Monopolies: An International Comparison 1967, Studies on Foreign Competition Policy and Practice: the United States (Vol. 1) 1976, German and American Policies toward Restrictive Market Conduct and Powerful Firms: A Comparative Analysis 1977. *Leisure interests:* sailing, swimming and travel. *Address:* 11 New Jersey Avenue, Lewes, Del., U.S.A. *Telephone:* 645-9015.

EDWARDS, Edwin Washington, LL.D.; American politician; b. 7 Aug. 1927, Marksville, La.; s. of Clarence W. Edwards and Agnes Brouillette Edwards; m. Elaine Schwartzenburg 1949; two d. two s.; ed. Louisiana State Univ.; naval cadet 1945-46; practised law in Crowley, La. 1949-66, senior partner in law firm of Edwards, Edwards and Broadhurst; mem. Crowley City Council 1954-62, La. State Senate 1964-66; House of Reps. 1965-72, Public Works Cttee. 1965-68, Whip to La. and Miss. Dels., Judiciary Cttee. and Cttee. on Internal Security; Gov. of Louisiana 1972-; Chair. Interstate Oil Compact Comm. 1974-, Ozarks Regional Comm. 1974-, Educ. Comm. of Task Force on State, Institutional and Fed. Responsiblities May 1975-; mem. Nat. Resources and Environmental Man. Cttee. of Southern Govs.' Conf., Rural and Urban Devt. Cttee. of Nat. Govs.' Conf.; mem. Crowley Chamber of Commerce, Crowley Industrial Foundation, American Legion; Democrat. *Address:* Governor's Mansion, Baton Rouge, La. 70801, U.S.A.

EDWARDS, Sir George Robert, O.M., C.B.E., F.R.S.; British aeronautical designer and executive; b. 9 July 1908; ed. London Univ.; design staff, Vickers Armstrong, Weybridge 1935, Experimental Man. 1940, Chief Designer 1945, Gen. Man. and Chief Engineer 1953; Man. Dir. British Aircraft Corpn. Ltd. 1960-75; Pro-Chancellor Univ. of Surrey 1964-; Hon. F.R.Ae.S., Hon. F.A.I.A.A. Trustee R.A.F. Museum. Hon. Dr. Univ. (Stirling) 1979; Daniel Guggenheim Medal 1959, Taylor Gold Medal, Albert Medal 1972, Royal Soc. Royal Medal 1974. *Address:* Albury Heights, White Lane, Guildford, Surrey, England.

EDWARDS, Gordon; American food products executive (retd.); b. 29 May 1907, Franklin, Va.; s. of Claude Joseph and Marion Lee (Lawless) Edwards; m. Alida Beamon 1932; one s. two d.; ed. Virginia Polytechnic Inst., and George Washington Univ.; Kraft, Inc., Washington 1927-35, New York City 1935-36, Zone Controller, Chicago 1936-49, with Kraft Foods Div., Chicago; Dir. Kraft Inc. 1962, Pres. 1965, Chief Exec. Officer 1966, Chair. and Chief Exec. Officer 1968-72; Dir. Irving Trust Co., Communications Satellite Corpn., Pitney Bowes Inc. *Leisure interest:* golf. *Address:* 74 Winding Lane, Greenwich, Conn. 06830, U.S.A.

EDWARDS, Hilton Robert Hugh; British actor and director; b. 2 Feb. 1903, London; s. of Thomas George and Emily (Murphy) Edwards; ed. East Finchley Grammar School and St. Aloysius, Highgate, London; first stage appearance with Charles Doran Shakespearean Company, Theatre Royal, Windsor 1920; London debut 1922; with Micheál Mac Liammóir founded Gate Theatre, Dublin 1928; with Gate Theatre company, played in and directed numerous productions including Yahoo, The Old Lady Says No, Hamlet; leading parts include Peer Gynt, Cyrano di Bergerac, Macbeth, Shylock, Sheridan Whiteside, Uncle Harry, Mr. Antrobus; other productions include Ghosts, Brand, The Infernal Machine, Mourning Becomes Electra, Antony and Cleopatra, The Skin of our Teeth, and plays by Denis Johnston, W. B. Yeats, Micheál Mac Liammóir, etc.; played and directed at Gaiety Theatre, Dublin 1928-, in America with Micheál Mac Liammóir and Orson Welles 1934, at Westminster, London 1935, and in Cairo, Malta, Athens, Belgrade, Bucharest, etc.; played in and directed Ill Met By Moonlight 1947, John Bull's Other Island 1947, directed The Old Lady Says No 1948, 1950, Where Stars Walk 1948, 1950, directed and acted in Home for Christmas 1970, Hamlet 1953, directed revue Gateway to Gaiety 1956, directed and acted in Step-in-the-Hollow 1957, directed The Key of the Door 1957, The Informer 1960, Chimes At Midnight 1960, the Importance of Being Oscar 1960-61, I Must Be Talking to my Friends 1963, The Evangelist 1963, The Last P.M. 1963, The Roses are Real (also acted in) 1963-64, Philadelphia Here I Come 1964, 1965-67, Talking about Yeats 1965, The Plough and the Stars 1965, The Loves of Cass McGuire 1966, Lovers 1967, 1968, 1969, The Promise 1968, The Crystal and Fox 1968, 1970, Rosencrantz and Guildenstern are Dead 1969, Ill Met By Moonlight 1969, directed and acted in King Herod Explains 1969, directed It's later Than You Think 1971, directed and acted in Heartbreak House 1971, directed Romeo and Juliet 1971, acted in The Signalman's Apprentice 1971, directed The True Story of the Horrid Popish Plot 1972, 1975, An Ideal Husband 1972, The Servant of Two Masters 1973, Triple Bill: After Sunset/The Hell Scene of Don Juan/The Stronger 1973, Noone 1973, Prelude in Kazbek Street, Lady Windermere's Fan 1973, The Taming of The Shrew 1974, Black Man's Country 1974, The Good-natured Man 1974, Miss Julie 1975, The Real Charlotte 1975, The Seventh Sin 1976, Home for Christmas 1976, The Merchant of Venice 1977; has also appeared in and directed several films and made numerous television appearances including Mr. Micawber in David Copperfield; Head of Irish Television (Telefis Eireann) Drama Dept. 1961-63; Hon. LL.D. (Nat. Univ. of Ireland), Hon. D.Litt. (Trinity Coll., Dublin), Freeman of the City of Dublin. *Leisure interests:* reading, music, foreign travel. *Address:* Gate Theatre, Dublin 1; 4 Harcourt Terrace, Dublin, Ireland. *Telephone:* 767609.

EDWARDS, Air Commodore Sir Hughie Idwal, V.C., K.C.M.G., C.B., D.S.O., O.B.E., D.F.C.; Australian administrator; b. 1 Aug. 1914, Fremantle, W. Australia; s. of late Hugh Edwards; m. 1st Cherry Kyrle Beresford 1942 (died 1966), 2nd Dorothy Carew Berrick 1972; one s. one d.; ed. Fremantle Boys' School; Cadet R.A.A.F. 1935-36; R.A.F. Officer (V.C., D.S.O., D.F.C.) 1936-63; Dir. Australian Selection (Pty.) Ltd. 1964-73, Gov. of W. Australia 1974-75; K.St.J. *Leisure interests:* reading, horse racing. *Address:* 3 Darling Point Road, Darling Point, N.S.W. 2627, Australia.

EDWARDS, James Burrows, D.M.D., F.A.C.D., F.I.C.D.; American dental surgeon and politician; b. 24 June 1927, Hawthorne, Fla.; s. of Mr. and Mrs. O. M. Edwards; m. Anne Norris Darlington 1951; one s. one d.; ed. Coll. of Charleston and Univ. of Louisville; U.S. Maritime Service 1944-47, Service in Korean War; U.S.N. Reserve Dental Corps 1955-57 (remained in Reserve to 1967, rising to Lt.-Commdr.); Served as Deck Officer, Alcoa Steamship Co. 1951-52; graduated as doctor 1955, intern. Univ. of Pa. 1957-58, oral surgery residency, Henry Ford Hosp., Detroit, Mich. 1958-60; S.C. Dental Assen. Rep. of Gov.'s Statewide Cttee. for Comprehensive Health Care Planning 1968-72; mem. Fed. Hospital Council 1969-73; mem. numerous dental orgs. in U.S.; Chair. of Charleston County Repub-

lican Party 1964; Chair. of First Congressional District Republican Party 1970-71; fmr. Chair. Republican Steering Cttee. for Charleston County; mem. S.C. Statewide Steering Cttee. for Republican Party; mem. S.C. State Senate 1973-75; Governor of South Carolina 1975-79; mem. of numerous professional medical organizations; numerous civic posts; Hon. L.L.B. (Univ. of S.C.) 1975, (Bob Jones Univ.) 1976, Hon. D.Lit. (Charleston Coll.) 1975. *Leisure interests:* hunting, fishing, sailing, water skiing. *Address:* 100 Venning Street, Mount Pleasant, S.C. 29464, U.S.A.

EDWARDS, Robert John; British journalist; b. 26 Oct. 1925, Farnham, Surrey; s. of Gordon and Margaret (née Grain) Edwards; m. 1st Laura Ellwood 1952 (dissolved 1972), two s. two d.; 2nd Brigid Seagrave; ed. Ranelagh School; Editor Tribune 1951-55; Deputy Editor Sunday Express 1957-59; Editor Daily Express 1963-65; Editor Sunday People (fmrly. The People) 1966-72; Editor Sunday Mirror 1972-; Dir. Mirror Group Newspapers 1976-. *Leisure interest:* boating. *Address:* c/o Sunday Mirror, 33 Holborn, London, EC1P 1DG (Office); Flat 6, 97 Linden Gardens, London, W.2, England (Home). *Telephone:* 01-353 0246 (Office).

EDWARDS, Rt. Hon. (Roger) Nicholas, P.C., M.A., M.P.; British politician; b. 25 Feb. 1934; s. of late Ralph Edwards and of Marjorie Brooke; m. Ankaret Healing 1963; one s. one d.; ed. Westminster School, Trinity Coll., Cambridge; mem. Lloyds 1965; fmr. Dir. P and A Int. and Sturge Underwriting Agency Ltd.; M.P. for Pembroke 1970-; Opposition Spokesman on Welsh Affairs 1975-79; Sec. of State for Wales May 1979-; Conservative. *Leisure interests:* gardening, fishing. *Address:* House of Commons, Westminster, London, S.W.1; Pontesgob Hill, Fforest Coalpit, Gwent, Wales.

EDWARDS, Sir Sam(uel Frederick), Kt., F.R.S., F.INST.P., F.I.M.A.; British physicist and administrator; b. 1 Feb. 1928, Swansea; s. of Richard and Mary Jane Edwards; m. Merriell E. M. Bland 1953; one s. three d.; ed. Swansea Grammar School, Gonville and Caius College, Cambridge, Harvard Univ.; Member, Inst. for Advanced Study, Princeton 1952-53; staff mem. Birmingham Univ. 1953-58, Manchester Univ. 1958-72; Prof. of Theoretical Physics, Manchester Univ. 1963-72; John Humphrey Plummer Prof. of Physics, Cambridge Univ. 1972-; mem. Council, Inst. of Physics 1967-73, Vice-Pres. of Inst. 1970-73, Chair. Publ. Div. 1970-73; mem. Science Board, Science Research Council 1970-73, mem. Physics Cttee. 1968-70, Polymer Science Cttee. 1968-73, Chair. Physics Cttee. 1970-73, Science Research Council 1973-77, European Council for Research and Devt. 1977-, Council British Assn. for Advancement of Science 1977-; mem. Council European Physical Soc. 1969-71, Univ. Grants Cttee. 1971-73, Scientific Advisory Council, Min. of Defence 1973- (Chair. 1978-), Advisory Board for the Research Councils, Dept. of Ed. and Science 1973-77, Metrology and Standards Requirements Board, Dept. of Ind. 1974-77, Advisory Council on Research and Devt., Dept. of Energy 1974-77, U.K. Del. NATO Science Cttee. 1974-78, Senatsausschusses fur Forschungspolitik und Forschungsplanung der Max Planck Gesellschaft 1975-77, Council Inst. of Mathematics and its Applications 1976-; Fellow Gonville and Caius Coll., Cambridge; Hon. D.Tech., Loughborough 1975, Hon. D.Sc., (Edinburgh, Salford, Bath); Maxwell Medal and Prize, Inst. of Physics 1974. *Address:* The Cavendish Laboratory, Madingley Road, Cambridge, CB3 0HE, England. *Telephone:* 0223-66477.

EDWARDS, William Philip Neville, C.B.E., M.A.; British industrialist; b. 5 Aug. 1904; ed. Rugby, Corpus Christi Coll., Cambridge, and Princeton Univ. (Davison Scholar). Public Relations Officer, London Passenger Transport Board 1939-41; Asst. to Chair. of Supply Council, Ministry of Supply 1941-43; Head of Industrial Information Div., Ministry of Production, and alternate Dir. of Information, British Supply Council, Washington 1943-45; Dir. Overseas Information Div., Board of Trade, London 1945-46; Counsellor, British Embassy, Washington, D.C., in charge of British Information Services 1946-49; Deputy Overseas Dir. Federation of British Industries (F.B.I.) 1949-51, Dir. Promotion and Information, F.B.I. 1951-65, Confederation of British Industry (C.B.I.) 1965-66; Dir. of British Overseas Fairs Ltd. 1953-66, Chair. 1966-68; U.K. Assoc. Dir. Business International S.A. 1969-75; Chair. Burton Sheen Ltd. 1971-75; Dir. P.R.I. Group 1968-77. *Address:* Dawes Mead, Leigh, Reigate, Surrey, England.

EFHOLM, Mogens; Danish business executive; b. 20 May 1910, Copenhagen; s. of Christian Christensen and Ingeborg (née Ohlsson); m. Birgitte Jensen 1947; ed. univ., and commercial studies in England, Germany and France; Copenhagen trade agencies 1930-45; Managing Dir. Emil Warthoe & Soenner A/S 1945-50, Nordisk Andelsforbund (Scandinavian Co-operative Wholesale Soc.) 1951-64, "National" Co. 1953-57, Nordisk Andels-Eksport (Scandinavian Co-operative Export) 1954-64; mem. Central Cttee. Int. Co-operative Alliance, London 1961-64; mem. the "Maritime and Commercial Court" 1961-; Chair. Nordisk Andelsforbund, Calif., Inc., San Francisco 1962-64; Sec.-Gen. European Co-operative Wholesale Cttee. for Developments in Production and Marketing Fields 1963-64; Commercial Adviser 1964-; Knight, Order of Dannebrog. *Leisure interests:* literature and philosophy. *Address:* 65B Strandvejen, Copenhagan Ø, Denmark. *Telephone:* 01-29-36-46.

EFON, Vincent; Cameroonian politician; b. 28 Aug. 1927, Mbos; ed. Paris, Toulouse. Directeur de Cabinet, Minister of Nat. Educ. July 1960-July 1962; Chief, Produce Dept. 1962-63; Asst. Dir., then Dir. Econ. Orientation March 1963-Jan. 1966; Dir. of Foundation Products 1966-67; Dir. CHOCOCAM and Soc. Franco-Camerounaise des Tabacs (SFCT); Minister of Commerce and Industry May 1967-Aug. 1968; Minister of Planning and Devt. 1968-70, of Transport 1970-72, of Foreign Affairs July 1972-75; Sec.-Gen. UDEAC March 1977-. *Address:* B.P. 969, Bangui, Central African Empire.

EGAL, Mohamed Ibrahim; Somali politician; b. 1928, Berbera; s. of Haji Ibrahim Egal and Hajia Khadija Mohamed Osman; m. Aasha Saeed Abby 1946; three s. two d.; ed. Koranic School, Sheikh Intermediate School, and in U.K. Sec. Berbera Branch, Somali Nat. League Party 1956; Sec.-Gen. Somali Nat. League Party 1958-60; Prime Minister of Somaliland 1960; Minister of Defence, Somali Repub. 1960-62, of Educ. 1962-63; re-elected to Parl. March 1964; mem. Somali Youth League Party 1966; Prime Minister and Minister of Foreign Affairs, Somali Repub. 1967-69; in detention following coup 1969, released Oct. 1975. *Leisure interests:* golf, reading and films. *Address:* P.O. Box 120, Mogadishu, Somalia. *Telephone:* 8896.

EGAMI, Fujio, D.SC.; Japanese biochemist; b. 21 Nov. 1910, Tokyo; s. of Shimao and Mitsuko Egami; m. Yuki Yoneta 1939; two d.; ed. Univ. of Tokyo and in Strasbourg, and Paris. Assoc. Prof. of Biochem., Nagoya Univ. 1942-43, Prof. of Biochem. 1943-60, Prof. Emer. 1977-; Prof. of Biochem, Univ. of Tokyo 1958-71, Saitama Univ. 1968-71; mem. Science Council of Japan 1949-72, Vice-Pres. 1966-69, Pres. 1969-72; Dir. Mitsubishi-Kasei Inst. of Life Sciences 1971-; Chemical Soc. of Japan Prize 1954; Officier de l'Instruction Publique (French Govt.) 1954; Pres. Biochem. Soc. of Japan 1968, Chemical Soc. of Japan 1977-, Int. Soc. for the Study of the Origin of Life 1977-; Asahi Culture Prize 1967, Japan Acad. Prize 1971; Légion d'honneur 1971. *Publications:* Biochemistry of Nucleic Acids, Biochemistry of Heteropolysaccharides, Enzyme Biochemistry, Microbiological Chemistry, Minor Elements and Evolution, Discovery of Ribonuclease T_1, T_2 and U_2, Chemical Evolution in the Primeval Sea. *Leisure interest:* Esperanto. *Address:* Mitsubishi-Kasei Institute of Life Sciences, 11 Minamiooya, Machidashi, Tokyo (Office); Nukui-minami-cho III-1-7, Koganei-shi, Tokyo, Japan (Home). *Telephone:* 0427-26-1211 (Office) 0423-81-9212 (Home).

EGEBERG, Roger Olaf, M.D.; American physician; b. 13 Nov. 1903, Chicago, Ill.; m. Margaret McEchron Chahoon; one s. two d.; ed. Cornell and Northwestern Univs. Intern, Wesley Hospital, Chicago; Resident, Univ. Hospital, Ann Arbor, Mich.; practised medicine (specializing in internal medicine) Cleveland, Ohio 1932-1942; Chief Medical Service, Veterans' Admin. Hospital, Los Angeles 1946-56; Medical Dir. L.A. County Hospital 1956-58; L.A. County Dept. Charities 1958-64; mem. staff Los Angeles County Gen. Hospital, and Rancho Los Amigos Hospital, Downey, Calif.; Prof. of Medicine Univ. of Calif. at Los Angeles (U.C.L.A.) 1948-64, Coll. of Medical Evangelists 1956-64; Prof. of Medicine Univ. of S. Calif. 1956-69, Dean School of Medicine 1964-69; mem. Nat. Advisory Cancer Council, Special Medical Advisory Group to the Veterans' Admin., Calif. Board of Public Health; Asst. Sec. for Health, Educ. and Welfare 1969-71, Special Asst. to Sec. for Health Policy 1971-77; Chief Exec. Officer Medicine Bureau 1977-; Co-Chair. U.S.-U.S.S.R. Comm. for Health Co-operation 1972-; Fellow, American Coll. of Physicians; mem. American Medical Assn., American Clinical and Climatological Assn., Calif. Bd. of Public Health 1961- (Pres. 1964-); Bronze Star, Legion of Merit, St. Olaf's Medal (Norway). *Publications:* numerous articles in professional journals. *Address:* Department of Health, Education and Welfare, 330 Independence Avenue, S.W., Washington, D.C. 20201, U.S.A.

EGELAND, Leif, M.A., B.C.L.; South African diplomatist and businessman; b. 19 Jan. 1903, Durban; m. Marguerite Doreen de Zwaan 1942; one d.; ed. Durban High School, Natal Univ. Coll., and Trinity Coll., Oxford. Rhodes Scholar for Natal 1924, Harmsworth Scholar Middle Temple 1927; Barrister 1930; Fellow Brasenose Coll. 1927-30; Advocate Supreme Court S. Africa 1931; M.P. Durban 1933-38, Zululand 1940-43; with 6th S. African Armoured Div., Middle East 1943; Union Minister to Sweden 1943-46, to Neths. and Belgium 1946-48; High Commr. for Union of South Africa in London 1948-50; S. African Del. to San Francisco Conf. 1945; leader of S. African

Del. to Final Assembly L.N., Geneva 1946; S. African Del. to First and Third Gen. Assemblies of UN, Paris, to Paris Peace Conf. 1946 and Pres. Comm. for the political and territorial questions in the draft Peace Treaty with Italy at that Conf.; Chair. Standard Gen. Insurance Co. Ltd., Smuts Memorial Trust; a Vice-Pres., Exec. Trustee of the South Africa Foundation; Pres. South African Guide Dogs Assen.; Hon. Bencher Middle Temple; Hon. LL.D. (Cambridge); Knight Commdr. with Star of St. Olav (Norway), Knight Grand Cross of the North Star (Sweden). *Publications:* Bridges of Uncertainty (autobiography) 1977. *Leisure interests:* tennis, gardening, bridge. *Address:* 11 Fricker Road, Illovo, Johannesburg, South Africa. *Telephone:* 421642.

EGGAN, Fred Russell, PH.D.; American anthropologist; b. 12 Sept. 1906, Seattle, Wash.; s. of Alfred J. Eggan and Olive M. Smith; m. 1st Dorothy Way 1938 (deceased), 2nd Joan Rosenfels 1969; no. c.; ed. Univ. of Chicago. Instructor, Univ. of Chicago 1935-40, Asst. Prof. 1940-44, Assoc. Prof. 1945-48, Prof. of Anthropology and Chair. Dept. of Anthropology 1948-; Dir. Philippine Studies Program 1953-, Prof. Emeritus 1974-; Fellow Centre for Advanced Study in The Behavioural Sciences, Stanford Univ. 1958-59; Visiting Fellow, All Souls' Coll., Oxford 1970; Hon. Fellow Royal Anthropological Inst., Prof. Emeritus 1974-; Corresponding Fellow British Acad.; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences; Viking Fund Medal, L. H. Morgan Lecturer; Frazer Lecturer 1971. *Publications:* Social Organization of the Western Pueblos 1950, The American Indian 1968; Editor of Social Anthropology of North American Tribes 1937 (2nd edn. 1955), Essays in Social Anthropology and Ethnology 1975. *Leisure interests:* travel, photography. *Address:* Department of Anthropology, 1126 East 59th Street Chicago, Ill. 60637 (Office); 5752 South Harper Avenue, Chicago, Ill. 60637, U.S.A. (Home). *Telephone:* 753-3707 (Office); 288-5140 (Home). *Telephone:* 753-3707 (Office); 288-5140 (Home).

EGK, Werner; German composer; b. 17 May 1901, Donauwörth; m. Elisabeth Karl 1923; one s. (deceased); ed. Univ. of Munich. Conductor, Prussian State Opera, Berlin 1936-40; Dir. Hochschule für Musik, Berlin (West) 1950-53; Pres. of Cisac (Confédération Internationale des Sociétés d'Auteurs et Compositeurs) 1976-78; mem., Music Section of the Bayerische Akademie der Schönen Künste, Akademie der Künste Berlin, Deutsche Akademie der Künste, Berlin, D.D.R.; Hon. Pres. of Deutscher Komponistenverband; Pres. of Deutscher Musikrat 1970-72. *Publications:* Operas: Zaubergeige 1935, Peer Gynt 1938, Columbus 1941, Irische Legende 1955, Revisor 1957, Die Verlobung in San Domingo 1963, 17 Tage und 4 Minuten 1966; ballets: Joan von Zarissa 1940, Abraxas 1948, Sommertag 1949, Chinesische Nachtigall 1953, Danza 1960, Casanova in London 1969; concert works: Furchtlosigkeit und Wohlwollen (oratorio) 1931, La Tentation de Saint Antoine 1946, Orchestersonate 1948, Französische Suite 1950, Chanson et Romance 1953, Moira 1973, Bläserquintett 1974, Nachgefühl 1976, Tentation 1977, Chor-Orchesterfassung 1977. *Address:* 8084 Inning, Bacherner Weg 1948, Federal Republic of Germany. *Telephone:* 84143/1233.

EGLIN, Colin Wells; South African politician and quantity surveyor; b. 14 April 1925, Cape Town; s. of Carl Eglin and Elsie Mary Wells; m. Joyce Cortes 1949; three d.; ed. De Villiers Graaff High School and Univ. of Cape Town; army service in Egypt and Italy 1943-45; mem. Pinelands Municipal Council 1951-54, Cape Provincial Council 1954-58; mem. Parl. for Pinelands Constituency 1958-61, for Sea Point Constituency 1974-; Chair. Progressive Party of S.A. for Cape Province 1959-66, Chair. Nat. Exec. 1966-70, Nat. Leader 1970-75; Nat. Leader S.A. Progressive Reform Party 1975-77, Progressive Federal Party 1977-; (Official Opposition Leader 1977-); Partner, Bernard James and Partners (Quantity Surveyors) 1952-. *Publications:* Betrayal of Coloured Rights, Forging Links in Africa, Priorities for the Seventies, New Deal for the Cities, Africa—A Prospect of Reconciliation, Pacesetter for Political Change, Security Through Negotiation. *Leisure interests:* tennis, golf, travel. *Address:* P.O. Box 1475, Cape Town (Office); 2 Cassandra, 42 Victoria Road, Clifton, Cape, South Africa (Home). *Telephone:* 451068, 434636 (Office); 48-7278 (Home).

EHARD, Hans, DR. JUR.; German lawyer and (retired) politician; b. 10 Nov. 1887, Bamberg; s. of August Georg Ehard and K. Konrad; m. 1st Annelore Maex 1916 (died 1957), 2nd Dr. Sieglinde Odörfer; one s.; ed. Univs. of Munich and Würzburg; served in Bavarian Ministry of Justice, rising to rank of Ministerial Counsellor 1933; Asst. State Prosecutor in Hitler trial, Munich 1923; seconded to Reich Ministry of Justice 1925-28; owing to non-membership of Nat. Socialist party was transferred to Oberlandesgericht, Munich, as Senate Pres. 1933; State Counsellor in Bavarian Ministry of Justice Oct. 1945; as State Sec. became mem. of Bavarian State Govt.; Minister-Pres. of Bavaria 1946-54, 1960-62, Minister of Justice 1962-66; Pres. Bavarian Parl. 1954-60; mem. Christian Social Union (CSU); Pres. Bavarian Red Cross 1955-69; Hon. Pres. Bavarian Red Cross 1969-; numerous decorations. *Leisure interests:* archaeology, astronomy. *Address:* 8 Munich 90, Am Schilcherweg 4A, Federal Republic of Germany. *Telephone:* 649554.

EHMKE, Horst Paul August; German lawyer and politician; b. 4 Feb. 1927, Danzig; s. of Dr. med. Paul Ehmke and Hedwig (née Hafften); m. 1st Theda Baehr, 2nd Maria Hlavacova 1972; one s. two d.; ed. High School, Danzig, Univ. of Göttingen and Princeton Univ., U.S.A. Research Assoc., Law School, Berkeley, U.S.A. 1958; graduated in Bonn 1960; Prof. of Law Univ. of Freiburg 1961-67, Dean of Law and Govt. Faculty 1966-67; Deputy of Fed. Minister of Justice March-Oct. 1969; Head of Fed. Chancellor's Office and Minister 1969-72; Fed. Minister for Research and Tech., Posts and Telecommunications 1972-74; Dep. Chair. Parl. Group 1977-; Social Democrat. *Publications:* Grenzen der Verfassungsänderung 1953, "Ermessen" und "Unbestimmter Rechtsbegriff" im Verwaltungsrecht 1960, Wirtschaft und Verfassung 1961, Prinzipien der Verfassungsinterpretation 1963, Politik der praktischen Vernunft 1969, Politik als Herausforderung 1974, Fristenregelung und Grundgesetz 1975. *Leisure interests:* history, modern literature, modern art, sport, gardening. *Address:* Konrad-Adenauerstrasse 19, 534 Rhöndorf, Federal Republic of Germany. *Telephone:* Bonn 163429.

EHRENBERG, Herbert, DR.RER. POL.; German politician; b. 21 Dec. 1926, Collmischken, East Prussia; m. Ilse Borreck 1963; two d.; ed. Hochschule für Arbeit, Politik und Wirtschaft and Göttingen Univ. Lecturer in social sciences; econ. dept. of Bau-Steine-Erden trade union; Fed. Civil Service 1968-72, rising to Sec. of State in Ministry of Labour and Social Affairs; mem. Bundestag (lower house of Parl.) 1972-; Minister of Labour and Social Affairs Dec. 1976-; mem. SPD 1955-, mem. Nat. Exec. 1975-, Chair. Econ. and Finance Policy Comm. of Nat. Exec. *Publications:* Lohnpolitik heute 1963, Die Erhard-Saga 1965, Vermögenspolitik für die siebziger Jahre 1971, Zwischen Marx und Markt 1973. *Address:* 5309 Meckenheim, Berliner Strasse 30B; 2940 Wilhelmshaven, Kolkweg 31A, Federal Republic of Germany. *Telephone:* 02225-2688.

EHRENBERGER, Vlastimil, ING., C.SC.; Czechoslovak politician; b. 16 Feb. 1935, Svojanov, Olomouc Dist.; ed. Mining Coll., Ostrava. Foreman, Chief Foreman, Zárubek Mine, Ostrava 1955-61; Chair. Communist Party Works Cttee. in Stachanov Mine until 1963; mem. Czechoslovak C.P. Regional Cttee. in N. Moravia, Sec. 1970; Dept. for Heavy Industry, Cen. Cttee. of Czechoslovak C.P. 1967-68; Deputy Gen. Man. of Construction of Ostrava-Karviná Mines 1968; mem. Nat. Econ. Comm. of Cen. Cttee. of Czechoslovak C.P. 1970-, mem. Cen. Cttee. 1976-; Vice-Premier of Czechoslovakia 1973-74; Minister of Fuel and Power 1974-; Head of Czechoslovak del. to the Perm. Comm. for Coal Industry 1974-; Chair. of Czech section, Int. Comm. on Orenburg Gas Pipeline U.S.S.R. 1975-; Distinction for Merit in Construction 1975. *Address:* Ministry of Fuel and Power, Prague, Czechoslovakia.

EHRET, Robert, DR. JUR.; German banker; b. 19 July 1925, Mannheim; mem. of Management Board, Deutsche Bank AG, Deputy Chair. Supervisory Board; Chair. Supervisory Board, Deutsche Gesellschaft für Fondsverwaltung mbH, Deutsche Vermögensbildungsgesellschaft mbH, DLW Aktiengesellschaft, Motoren-Werke Mannheim AG, Deutsche Grundbesitz-Anlagegesellschaft mbH, Frankfurter Hypothekenbank; Vice-Chair. Supervisory Board, Deutsche Gesellschaft für Anlageberatung mbH, Otto Aktiengesellschaft für Beteiligungen; mem. Supervisory Board BASF AG, Dyckerhoff Zementwerke AG, Gruner + Jahr AG, Osram GmbH, G. M. Pfaff AG, Salamander AG; Chair. Consultative Board, Deutsche Kreditbank für Baufinanzierung; mem. Consultative Board Klein Pumpen GmbH, PWA Papierwerke Waldhof-Aschaffenburg AG, Rodi & Wienenberger AG; Chair. Admin. Board Compagnie Financière de la Deutsche Bank AG, Luxembourg. *Address:* Deutsche Bank, AG, 6000 Frankfurt am Main, Grosse Gallusstrasse 10-14, Federal Republic of Germany.

EHRLICH, Paul Ralph, M.A., PH.D.; American population biologist; b. 29 May 1932, Philadelphia, Pa.; s. of William and Ruth (Rosenberg) Ehrlich; m. Anne Fitzhugh Howland 1954; one d.; ed. Univs. of Pennsylvania and Kansas. Associate investigator, U.S.A.F. research project, Alaska and Univ. of Kansas 1956-57; Research Assoc. Chicago Acad. of Sciences and Univ. of Kansas Dept. of Entomology 1957-59; mem. Faculty, Stanford Univ. 1959-, Prof. of Biology 1966-, Bing Prof. of Population Studies 1976-; Hon. D.Hum.Litt. (Univ. of the Pacific) 1970. *Publications:* How to Know the Butterflies 1961, Population Resources, Environment 1970, 1972 (both with A. H. Ehrlich); The Population Bomb 1968, 1971; How to be a Survivor (with R. L. Harriman) 1971; co-editor:

Man and the Ecosphere (with J. P. Holdren and R. W. Holm) 1971; Global Ecology (with J. P. Holdren) 1971, Human Ecology (with A. H. Ehrlich and J. Holdren) 1973, Ark II (with D. Pirages) 1974, The Process of Evolution (with R. W. Holm and D. R. Parnell) 1974, The End of Affluence (with A. H. Ehrlich) 1974; Biology and Society (with R. W. Holm and I. Brown) 1976, The Race Bomb (with S. Feldman) 1977, Ecoscience: Population, Resources, Environment (with A. H. Ehrlich and J. P. Holdren), Introduction to Insect Biology and Diversity 1978 and other books; over 200 scientific and popular articles. *Leisure interests:* collective primitive art. *Address:* Department of Biological Sciences, Stanford University, Stanford, Calif. 94305, U.S.A.

EHRLICH, S. Paul, Jr., M.P.H., M.D.; American physician; b. 4 May 1932, Minn.; s. of S. Paul Ehrlich and Dorothy E. Fiterman; m. Geraldine McKenna 1959; three d.; ed. Univs. of Minnesota and Calif. Staff Physician, Grants and Training Branch, Nat. Heart Inst., Nat. Insts. of Health, Bethesda 1959-60; Chief, Epidemiology Field Training Station, Heart Disease Control Program, Wash., D.C. 1961-66, Deputy Chief Heart Disease Control Program 1966-67; Lecturer in Epidemiology, School of Public Health, Univ. of Calif. 1963-; Clinical Assoc. Prof., Dept. of Community Medicine and Int. Health, Georgetown Univ. School of Medicine, Wash., D.C. 1967-; Adjunct Prof. of Int. Health, Univ. of Texas; Assoc. Dir. for Bilateral Programs, Office of Int. Health, 1967-68; Deputy Dir. Office of Int. Health 1968-69; Acting Dir. Office of Int. Health, Dept. of Health, Educ. and Welfare Dec. 1969-70, Dir. 1970-; Asst. Surgeon-Gen., USPHS 1970, Acting Surgeon-Gen. 1973-, Dep. Surgeon-Gen. 1976; U.S. Rep. to World Health Org. (WHO) 1974-; Diplomate, American Board of Preventive Medicine; Chair. Exec. Board of WHO 1972, *Publications:* Articles on Chronic Disease Control, Coronary Disease Risk Factors, and the Relationship of the Stroke to Other Cardiovascular Diseases. *Address:* Office of The Surgeon General, 200 Independence Ave., S.W., Washington, D.C. 20201, U.S.A. *Telephone:* 202-245-6251.

EHRLICHMAN, John Daniel, B.A., J.D.; American attorney; b. 20 March 1925, Tacoma, Wash.; s. of late Rudolph I. Ehrlichman and Lillian Danielson; m. Jeanne Fisher 1949; three s. two d.; ed. Univ. of Calif. (Los Angeles) and Stanford Univ; served with U.S. Army Air Corps during Second World War; fmrly. with Hullin Ehrlichman Roberts and Hodge (law firm) Seattle; Dir. of Convention Activities subsequently Tour Dir. Presidential Campaign 1968; Counsel to Pres. Nixon Nov. 1968-69; Asst. to Pres. for Domestic Affairs Nov. 1969-March 1973 (resigned over the Watergate case); convicted for Watergate related charges July 1974, Feb. 1975 (sentenced to prison term, released April 1978). *Publications:* The Company 1976, The Impact of Elections 1977. *Address:* Santa Fe, New Mexico, U.S.A.

EICHLER, Irena; Polish actress; b. 19 April 1908, Warsaw; ed. Theatrical School, Warsaw, student of Aleksander Zelwerowicz; began career in Vilnius, Lvov, Krakow and Kódź; later with Polish and Nat. Theaters in Warsaw; abroad 1939-45; went to Brazil, helped organize Brazilian Nat. Theatre and Dramatic School; **Warsaw theatres 1945-; Rozmaitości, Nowy, Współczesny, Ludowy; Teatr Narodowy 1958-; State Prize, 1st Class 1955; Order of Banner of Labour, 1st Class 1959; Minister of Culture and Arts Prize 1965, 1977; Officer's Cross, Order of Polonia Restituta.** *Roles include:* **Salome (Wilde), Cleopatra (Norwid), Chimène (Corneille), Judith (Giraudoux), Balladyna (Slowacki), Mrs. Warren (Shaw), Rosita (Lorca), Maria Stuart (Schiller), Phèdre (Racine), Maria Tudor (V. Hugo), Gabriella Zapolska (own play).** *Publication:* **Gabriella Zapolska.** *Address:* **Ul. Odyńca 27, 02-606 Warsaw, Poland.**

EICKHOFF, Gottfred; Danish sculptor and professor; b. 11 April 1902, Copenhagen; s. of Gudfred Eickhoff and Asa Brandt; m. Gerda Arensbach Andersen 1927; ed. Københavns Universitet, and Paris under Charles Despiau. Prof. of Sculpture, Acad. of Fine Arts, Copenhagen 1955-72, Pro-rector 1956-66; mem. Council of Art 1956-73, extraordinary mem. 1974-; exhbns. and works in museums in Europe and U.S.A., monuments in Denmark, Sweden and Belgium; Knight, Order of Dannebrog; Kai Nielsen Prize 1942, Henri Nathansens Prize 1951, Eckersberg Medal 1944, Viggo Jarls Prize I 1962, II 1974, Haslund Prize 1971, Thorvalsen Medal 1976. *Leisure interests:* writing on art, travel. *Address:* Frederiksholms Kanal 28c, Copenhagen, Denmark. *Telephone:* (01)131418.

EIGEN, Manfred, DR. RER. NAT.; German physical chemist; b. 9 May 1927; ed. Georg-August-Univ. zu Göttingen. Max-Planck Inst. of Physical Chem., Göttingen, as Asst., later as Prof. and Head of Dept. 1953-, Dir. 1964; Otto Hahn Prize 1962, Nobel Prize for Chem. (with Norrish and Porter) for investigation of extremely rapid chemical reactions by means of disturbing the (molecular) equilibrium by the action of very short energy pulses 1967; Foreign hon. mem. American Acad. of Arts and Sciences; mem. Akad. der Wissenschaften, Göttingen; Assoc. mem. Nat. Acad. of Sciences, U.S.A.; Foreign mem. Royal Soc., U.K., Acad. Française 1978; Hon. Dr. Univ. of Washington, St. Louis Univ., Harvard Univ. and Cambridge Univ. *Address:* Max-Planck-Institut für Biophysikalische Chemie, Karl-Friedrich-Bonhoeffer-Institut, Am Fassberg, 3400 Göttingen-Nikolausberg, Federal Republic of Germany. *Telephone:* 0551-20-14-32.

EIKA, Hallvard; Norwegian farmer and politician; b. 5 Dec. 1920, Torquay, Sask., Canada; s. of Ketil and Kari (née Landsverk) Eika; m. Auslaug Vethe 1959; two s. one d.; ed. Agricultural Coll. of Norway and abroad. Scientific Asst., Inst. for Agricultural Economy, Agricultural Coll. of Norway 1946-48; Consultant, Norwegian Farmers' Union 1948-50, Royal Soc. for Rural Devt. of Norway 1950-52; Farmer, Bø 1952-; Chair. Norwegian Farmers' Union 1955-66; mem. Board Norwegian Forest Owners Fed. 1955-65, Bøndernes Bank A/S 1962-, Forenede Liv Insurance Comp. 1956-; mem. Presidium, Cen. Council of Nordic Agricultural Orgs. 1956-66; Vice-Pres. Int. Fed. of Agricultural Producers 1964-67; Mayors of Bø 1967-70; mem. Parl 1969-77; Minister of Agric. 1970-71; Minister of Commerce and Shipping 1972-73; Chair. Bø Hotel A/S 1968-; Chair. Telemark Distrikts högskole 71-76; Dir. Telemark Agric. Soc. 77-. *Address:* Bø, Telemark, Norway. *Telephone:* Bø 60083.

EILENBERG, Samuel, PH.D.; American mathematician; b. 30 Sept. 1913; ed. Univ. of Warsaw. Instructor, Univ. of Michigan 1940-41, Asst. Prof. 1941-45, Assoc. Prof. 1945-46; Prof. Indiana Univ. 1946-47; Prof. Columbia Univ. 1947-; Visiting Prof. Univ. of Paris 1950-51, and 1966-67; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; hon. mem. London Math. Soc.; fmr. Vice-Pres. American Math. Soc. *Publications:* Foundations of Algebraic Topology (with N. E. Steenrod) 1952, Homological Algebra (with H. Cartan) 1956, Recursiveness (with C. C. Elgot) 1970, Automata, Languages and Machines, vol A 1974, vol. B. 1976; numerous articles in professional journals. *Leisure interest:* Indian and S.E. Asian art. *Address:* Department of Mathematics, Columbia University, New York, N.Y. 10027, U.S.A.

EILERS, Louis Kenneth, PH.D.; American business executive; b. 11 April 1907, Gillespie, Ill.; s. of William H. and Minnie (née Luken) Eilers; m. C. Frances Wampler 1930; three s. two d.; ed. Blackburn Coll., Univs. of Illinois and Virginia, and Northwestern Univ. Supt. Roll Coating Finishing Dept. Eastman-Kodak Co. 1946-50; Asst. to Man. Film Mfg. 1950-52, Asst. Man. 1952-53; Admin. Asst. to Gen. Man. Kodak Park 1953, Asst. Gen. Man 1954-56; Vice-Pres. and Asst. Gen. Man. Eastman Kodak Co. 1956-59; Pres. Eastman Chemical Products Inc. 1959-61, Vice-Chair. 1960-63, Vice-Pres. 1963-; First Vice-Pres. Tennessee Eastman Co. and Texas Eastman Co. 1959-61, Pres. 1961-63; Pres. Carolina Eastman Co. 1961-63; Exec. Vice-Pres. Eastman Kodak Co. 1963-67, Dir. and mem. Exec. Cttee. 1963-, Pres. 1967-70, Chair. Exec. Cttee. 1967-69, Chief Exec. Officer 1969-72, Chair. of Board of Dirs. 1970-72 (retd.); Hon. Sc.D. (Blackburn Coll.); Assoc. Fellow Soc. of Photographic Scientists and Engineers. *Leisure interests:* golf, bowling. *Address:* 6945 E Glenrosa, Scottsdale, Ariz. 85251, U.S.A.

EILTS, Hermann Frederick, M.A., LL.D.; American (b. German) diplomatist; b. 23 March 1922, Germany; m. Helen Brew Eilts 1948; two s.; ed. Ursinus Coll., Johns Hopkins Univ., Univ. of Pennsylvania; several diplomatic posts in Teheran 1947-48, Jeddah 1948-51, Aden 1951-54, Baghdad 1954-56, Washington, D.C. 1956-61; First Sec., American Embassy, London 1962-64; Counsellor, Deputy Head of Mission, American Embassy, Tripoli 1964-65; Amb. to Saudi Arabia 1965-70; Diplomatic Adviser to U.S. Army War Coll. 1970-73; Amb. to Egypt 1973-; Arthur Fleming Award for Distinguished Govt. Service, U.S. Army Decoration for Distinguished Civilian Service. *Leisure interests:* coins, stamps, reading, hiking, tennis. *Address:* 5 America El Latina St. (Garden City), Cairo, Egypt. *Telephone:* Cairo 28219.

EINAUDI, Giulio; Italian publisher; b. 2 Jan. 1912, Turin; s. of Prof. Luigi Einaudi and Ida Pellegrin; m. Renata Aldrovandi 1950; three s. three d.; ed. Liceo Massimo d'Azeglio and Univ. of Turin. Founder Publishing House, Giulio Einaudi Editore 1933, Gen. Man. 1954-. *Leisure interests:* mountaineering, paintings, rare books. *Address:* Via Umberto Biancamano 1, 10121 Turin, Italy. *Telephone:* 533653.

EINEM, Gottfried von; Austria professor and composer; b. 24 Jan. 1918, Berne, Switzerland; s. of William and Gerta Louise von Einem; m. Lotte Ingrisch; one s.; ed. Gymnasium at Ratzeburg and musical studies with Boris Blacher. Coach, State Opera in Berlin 1939-44; Musical Adviser to Dir. of Dresden State Opera, Coach Bayreuth Festival 1938-39; mem. Board of Salzburg Festival 1948-51; mem. Acad. of Arts, Berlin (West and East), Vienna Konzerthaus Gesellschaft 1963-; Emer. Prof. Hochschule für Musik,

Vienna; numerous awards and prizes including Austrian State Prize 1965. *Compositions:* Operas: Death of Danton (Büchner), The Trial (Kafka), Der Zerrissene (Nestroy), Visit of the Old Lady (Dürrenmatt), Kabale und Liebe (Schiller); Cantatas: Stunden Lied (Brecht), An die Nachgeborenen (various poets), five ballets and various other works for orchestra including two piano concertos, a violin concerto, songs and two string quartets. *Address:* Vienna III, Marokkanergasse 11, Austria. *Telephone:* 731457.

EINEM, Herbert Günter von, DR. PHIL.; German art historian; b. 16 Feb. 1905; ed. High Schools in Erfurt and Göttingen, and Univs. of Göttingen. Berlin and Munich. Ass. at Landesmuseum, Hanover 1929-36; Art History studies, Göttingen 1936; Prof. of Art History, Griefswald Univ. 1943-46, Univ. of Frankfurt 1946-47, Univ. of Bonn 1947-70, Emer. 1970-; mem. Acad. of Sciences of North Rhine-Westphalia, Acad. of Science and Literature, Mainz; Corresp. mem. Acad. of Sciences, Göttingen, Acad. of Sciences, Munich, German Archaeological Inst.; Foreign mem. Royal Swedish Acad.; Hon. mem. Int. Cttee. on History of Art; Commendatore al Merito della Repubblica Italiana. *Publications:* Karl Ludwig Fernow 1935, Caspar David Friedrich 1938, 3rd edn. 1950, Beiträge zu Goethes Kunstauffassung 1956, Michelangelo 1959, Stil und Überlieferung 1971, Goethe-Studien 1971, Deutsche Malerei des Klasizimus und der Romantic 1978. *Address:* Home: 34 Göttingen-Geismar, Charlottenburgerstrasse 19, App. C 912, Federal Republic of Germany.

EISEN, Herman N(athaniel), A.B., M.D.; American immunologist and microbiologist; b. 15 Oct. 1918, Brooklyn, N.Y.; s. of Joseph M. Eisen and Lena M. (Karush) Eisen; m. Natalie Aronson 1948; three s. two d.; ed. New York Univ. Prof. of Medicine (Dermatology), Washington Univ., St. Louis 1955-61, Prof. of Microbiology and Head of Dept. 1961-73; Prof. of Immunology, Mass. Inst. of Technology 1973-; Harvey Lecturer 1964; Consultant to Surgeons-Gen. of Public Health Service, Dept. of the Army; Chair. Study Section for Allergy and Immunology, Nat. Insts. of Health 1964-68; mem. editorial boards of Journal of Immunology, Bacteriological Reviews, Physiological Reviews, Proceedings of the Nat. Acad. of Sciences of U.S.A.; mem. Board of Scientific Advisors, Mass. Gen. Hosp., Boston; mem. Bd., Merck, Sharpe and Dohme, Howard Hughes Medical Inst.; mem. American Soc. for Clinical Investigation (Vice-Pres. 1963-64), American Assen. of Immunologists (Pres. 1968-69), American Soc. for Biological Chemists, American Assen. of Physicians, Nat. Acad. of Sciences, Inst. of Medicine of Nat. Acad. of Sciences, American Acad. of Arts and Sciences; New York Univ. Medical Science Achievement Award 1978. *Publications:* Methods in Medical Research Vol. 10 (Editor) 1964, Microbiology (co-Author) 1967, 1973, Immunology 1974, Contemporary Topics in Molecular Immunology Vol. 5 (Editor) 1976; about 150 scientific articles. *Leisure interests:* reading, tennis. *Address:* E-17-128 Center for Cancer Research, Massachusetts Institute of Technology, Cambridge, Mass. 01239; Home: 9 Homestead Street, Waban, Mass. 02168, U.S.A. *Telephone:* 617-253-6406.

EISENHOWER, John Sheldon Doud, B.S., M.A.; American author and diplomatist; b. 3 Aug. 1922, Denver, Colo.; s. of late Gen. Dwight D. Eisenhower (President of the U.S.A. 1953-61) and Mamie (Doud) Eisenhower; m. Barbara Jean Thompson 1947; one s. three d.; ed. Stadium High School, Tacoma, Wash., U.S. Military Acad., West Point, Columbia Univ. and Armored Advance Course and General Staff Coll., U.S. Army; assigned to First Army, Second World War; Instructor in English, U.S. Mil. Acad., West Point 1948-51; served as Battalion Operations Officer, Div. Asst. Operations Officer and Div. Intelligence Officer, Korea; C.O. 1st Battalion, 30th Infantry 1953-54; Instructor in Infantry Tactics, Engineer School, Fort Belvoir 1955-57; Joint War Plans Div., Army Staff, Pentagon 1957-58; Asst. Staff Sec. in White House 1958-61; researcher and editor on Eisenhower memoirs The White House Years; Amb. to Belgium 1969-71; Consultant to President Nixon; Chair. Interagency Classification Review Cttee. 1972-73; Brig.-Gen. U.S. Army Reserve 1974; mem. Nat. Archives Advisory Cttee. 1974-77; Chair. Pres.'s Advisory Cttee. on Refugees 1975; Legion of Merit, Bronze Star, Army Commendation Ribbon, Combat Infantry Badge, Grand Cross, Order of the Crown (Belgium). *Publications:* The Bitter Woods 1969, Strictly Personal 1974. *Leisure interests:* golf and military history. *Address:* Valley Forge, Pa. 19481 (Home); 1637 Jones Road, Valley Forge, Pa. 19481, U.S.A. (Office).

EISENHOWER, Dr. Milton Stover; American public official and educationist; b. 15 Sept. 1899, Abilene, Kan.; s. of David J. Eisenhower and Ida Stover Eisenhower; brother of late Gen. Dwight D. Eisenhower (President of the U.S.A. 1953-61); m. Helen Elsie Eakin 1927 (deceased); one s. one d.; ed. Kansas State Univ. and Univ. of Edinburgh, Scotland. Vice-Consul, Edinburgh 1924-26; Dir. of Information U.S. Dept. of Agriculture 1928-41; Land Use Co-ordinator 1937-42; Pres. Kansas State Univ. 1943-50; Pres. Pa. State Univ. 1950-56; Pres. The Johns Hopkins Univ. 1956-67, 1971-72; Special Amb. and Personal Rep. of Pres. of U.S. on Latin American Affairs 1953, 1957, 1959, 1960; Chair. President's Comm. to Examine Violence June 1968-Dec. 1969; hon. degrees many univs. U.S. and abroad; decorations from Colombia, Bolivia, Venezuela, Korea, Ecuador, Mexico and Chile. *Publications:* The Wine is Bitter 1963, The President is Calling 1974. *Leisure interests:* painting, music, swimming, English croquet, reading. *Address:* 4545 North Charles Street, Baltimore, Md. 21210, U.S.A. *Telephone:* 301-338-7670.

EISENSTADT, Samuel N., M.A. PH.D.; Israeli professor of sociology; b. 10 Sept. 1923, Warsaw, Poland; s. of Michael Eisenstadt and Rosa Boruchin; m. Shulamit Yaroshevski 1948; two s. one d.; ed. Hebrew Univ., Jerusalem and London School of Econs. and Political Science. Chair. Dept. of Sociology, Hebrew Univ., Jerusalem 1951-69, Prof. of Sociology 1959-, Dean, Faculty of Social Sciences 1966-68; Visiting Prof., Univ. of Oslo 1958, Univ. of Chicago 1960, Harvard Univ. 1966, 1968-69, 1976-77, Michigan 1970, Chicago 1971, Harvard 1975, Zurich 1975; Carnegie Visiting Prof., Mass. Inst. of Technology 1962-63, Simon Visiting Prof., Univ. of Manchester 1977; Chair. Council on Community Devt., Israel 1962-66, Israeli Sociological Soc. 1969-72; Fellow, Center for Advanced Studies in the Behavioral Sciences, Stanford Univ. 1955-56; Hon. Fellow, London School of Econs.; Foreign Fellow American Anthropological Assen.; Fellow Netherlands Inst. of Advanced Studies 1973; mem. Israel Acad. of Sciences and Humanities, Int. Sociological Soc., American Sociological Assen.; Foreign mem.American Philosophical Soc.; Foreign Hon. mem. American Acad. of Arts and Sciences; mem. Advisory Board International Encyclopedia of the Social Sciences; McIver Award, American Sociological Assen. 1964, Rothschild Prize in the Social Sciences 1969, Israel Prize in the Social Sciences 1973. *Publications:* The Absorption of Immigrants 1954, From Generation to Generation 1956, Essays on Sociological Aspects of Economical and Political Development 1961, The Political Systems of Empires 1963, Essays on Comparative Institutions 1965, Modernization, Protest and Change 1966, Israeli Society 1968, The Protestant Ethic and Modernization 1968, Political Sociology of Modernization (in Japanese) 1968, Comparative Perceptives on Social Change (Editor) 1968, Charisma and Institution Building: Selections from Max Weber (editor) 1968, Ensayos sobre el Cambio social y la Modernización (Spanish) 1969, Modernizicão e Mudança Social (Portuguese) 1969, Political Sociology (editor) 1970, Social Differentiation and Stratification 1971, Collection of Essays in Japanese 1971, Tradition, Change and Modernity 1973, Collection of Essays in Spanish 1973, Post-traditional Societies (editor) 1974, The Form of Sociology: Paradigms and Crises (with M. Curelaru) 1976, Macrosociology (with M. Curelaru) 1977, Revolutions and Transformation of Societies 1978. *Address:* The Hebrew University, Jerusalem; Rechov Radak 30, Jerusalem, Israel (Home). *Telephone:* 32467.

EISENSTAEDT, Alfred; American photographer; b. 6 Dec. 1898, Dirschau, Germany; s. of Joseph and Regina Eisenstaedt; m. Kathy Eisenstaedt (died 1972); ed. Hohenzollern Gymnasium Berlin; emigrated to U.S.A. 1935; with Time Inc. 1936-, staff photographer Life magazine 1936-72, People magazine 1972-; freelance work including advertising, promotion and giving lectures throughout U.S.A.; Photographer of the Year 1951, Culture Prize in Photography (German Soc. of Photographers), Int. Understanding Award 1967, Clifton Edom Award, Univ. of Missouri Joseph Sprague Award, and many others. *Publications:* Witness to our Time, Martha's Vineyard, The Eye of Eisenstaedt, Witness to Nature, Wimbledon: A Celebration, People, Eisenstaedt's Album. *Leisure interests:* music, hiking, greenhouse gardening. *Address:* Time Inc., Time & Life Building, Room 2850, Rockefeller Centre, New York, N.Y. 10020, U.S.A. *Telephone:* (212) 556-2342.

EISNER, Thomas, B.A., PH.D.; American professor of biology; b. 25 June 1929, Berlin, Germany; s. of Hans E. Eisner and Margarete Heil-Eisner; m. Maria L. R. Löbell 1952; three d.; ed. High School and Preparatory School, Montevideo, Uruguay, Champlain Coll., Plattsburgh, N.Y. and Harvard Univ. Research Fellow in Biology, Harvard Univ. 1955-57; Asst. Prof. of Biology, Cornell Univ. 1957-62, Assoc. Prof. 1962-65, Prof. of Biology 1965-76, Jacob Gould Schurman Prof. of Biology 1976-; Lalor Fellow 1954-55, Guggenheim Fellow 1964-65, 1972-73; Dir. National Audubon Soc. 1970-76; Fellow, American Acad. of Arts and Sciences, Royal Soc. of Arts, Animal Behaviour Soc.; mem. Nat. Acad. of Sciences 1969, Nat. Council for Nature Conservancy 1969-74; Newcomb-Cleveland Prize (with E. O. Wilson) of A.A.A.S. 1967, Founders Memorial Award of Entomological Soc. of America 1969, Outstanding Teacher Award, Cornell Univ. 1973. *Publications:* over 150 technical papers

and five books on animal behaviour, chemical ecology, comparative physiology, chemical communication in animals. *Leisure interests:* harpsichord, piano, conservation. *Address:* Section of Neurobiology and Behaviour, Division of Biological Sciences, Cornell University, Ithaca, N.Y. 14850, U.S.A. *Telephone:* (607) 256-4464.

EJBYE-ERNST, Arne; Danish journalist and editor; b. 16 Dec. 1927, Aarhus; s. of Niels Ejbye-Ernst and Agnete Ejbye-Ernst (née Steckhahn); m. Birgit Møller 1951; two s.; ed. Marselisborg Gymnasium, and Danish Coll. of Journalism. Journalist Danish Labour Press 1949-56; Editor Ny Tid, Aalborg 1956-59; Editor-in-Chief Aktuelt, Copenhagen 1959-64, Editor-in-Chief Politiken, Copenhagen 1966-71; Editor of the publishers' magazine 1972-; Lecturer and Leader, Danish Coll. of Journalism, Aarhus 1964-66; Adviser to Danish Newspaper Assen. 1964-66; Chair. Copenhagen Editors' Soc. 1962-64, 1967-69; Chief Principal of Inst. for Press Research 1971; Dean of School of Journalism 1974. *Publications:* Mass Communication as Business 1973, Study of Local Monopoly Press: "Aalborg Stiftstidende" in the Local Community 1975. *Address:* Office: Halmstadgade 11, 8200 Aarhus N, Denmark. *Telephone:* 06-161122.

EKANGAKI, Nzo; Cameroonian politician; b. 22 March 1934, Nguti; ed. Bali Coll., Hope Waddle Training Inst., Calabar, Nigeria and Univs. of Ibadan, Nigeria, London, Oxford and Bonn; served in several posts in Cameroon admin. 1959-60; Deputy Minister of Foreign Affairs 1962-64; Minister of Public Health and Population 1964-65, of Labour and Social Welfare 1965-72; Sec.-Gen. Org. of African Unity 1972-74; Sec.-Gen. Kamerun Nat. Democratic Party (KNDP) 1962-66; mem. of Political Bureau, Cameroon Nat. Union Party (CNU) 1966-; mem. Parl. S. Cameroon 1961-62, mem. first Nat. Federal Assembly 1962-65, 1965-70; del. to many int. confs., to WHO Conf., Geneva 1964, to several Int. Labour Confs.; rep. on many missions abroad. *Publications:* An Introduction to East Cameroon 1956, To the Nigerian People 1958. *Address:* c/o Cameroon National Union Party, Yaoundé, Cameroon.

EKE, Abudu Yesufu, B.SC., M.A.; Nigerian educational administrator; b. 7 Sept. 1923, Benin City; s. of Yesufu O. and Barikisu A. Eke; m. Clara Noyogiere Eke 1956; three s. three d.; ed. Higher Coll., Yaba, Univ. Coll., Ibadan and Sidney Sussex Coll., Cambridge; various posts in Public Relations Dept. 1948-54; Information Officer, Fed. Information Services 1954-55; Asst. Registrar, Univ. Coll., Ibadan 1955-58; Principal Information Officer, subsequently Chief Information Officer, Western Nigeria Information Services 1959-61; Registrar, Univ. of Ife 1961-62; Commr. for Information, W. Region Govt. June-Aug. 1962; Registrar, Univ. of Lagos 1962-71; Commr. for Finance and Economic Development, Midwest State Govt. 1967-71; Fed. Commr. for Educ. 1971-74; Educ. and Econ. Consultant 1975-; Hon. LL.D. *Publications:* History of Group Divergence in Physical Anthropology, One Nigeria (one-act play), Problems of Decolonization in Africa, The Future of the OAU, A New Policy on Education in Nigeria, The Eradication of Illiteracy in Nigeria. *Address:* 28A Cameron Road, Ikoyi, Lagos, Nigeria. *Telephone:* 24029 (Home).

EKER, Bjarne Reidar, DR. MED.; Norwegian doctor; b. 26 Nov. 1903, Oslo, Norway; m. 1953; ed. Universitet i Oslo. Scientific Asst., Anatomy Inst., Oslo Univ. 1932-36; Pathologist, Univ. Hospital 1936-39; Chief Pathologist, Norwegian Radium Hospital 1939-, Dir. 1947-; Dir. Norsk Hydros Inst. of Cancer Research; Pres. Norwegian Cancer Soc. 1950-66; Chair. Radiation Hygiene Advisory Council 1956-. *Publications:* about 50 scientific publications in the field of genetics, radiobiology and tumour pathology. *Leisure interests:* fishing, skiing. *Address:* The Norwegian Radium Hospital, Montebello, Oslo 3, Norway.

EKLÖH, Herbert H.; German retail executive; b. 3 March 1905, Bochum; s. of Albrecht Ekloh and Grete Ekloh (née Küderling); ed. High School. Retailer 1928-; opened first self-service store in Europe 1938; opened first European Supermarket —Rheinlandhalle, Cologne 1957; Owner Eklöh Food Chain 1928-59; Dir. Kaufhof AG, Cologne 1935-40; Pres. Görlitzer AG, Dresden 1941-45; Hon. Consul for Mexico in Bonn 1953-; Pres. Supermercados Eklöh. Havana, Cuba 1954-57; Chair. Hussel AG 1962-69, Pres. 1969-. *Leisure interest:* flying. *Address:* Oberländer Ufer 94, 5 Cologne, Federal Republic of Germany. *Telephone:* 02331-6901 (Office); 0221-384035 (Home).

EKLUND, (Arne) Sigvard, D.S.; Swedish nuclear physicist; b. 19 June 1911, Kiruna; s. of Severin Eklund and Vilhelmina Pettersson; m. Anna-Greta Johansson 1941; one s. two d.; ed. Univ. of Uppsala. Nobel Inst. for Physics 1937-45; Asst. Prof. of Nuclear Physics, Royal Inst. of Technology, Stockholm 1946, Senior Scientist, Research Inst. for Nat. Defence Stockholm 1946-50; Dir. of Research AB Atomenergi, Stockholm 1950-56, Deputy to Man. Dir. 1950-61, Dir. of Reactor Devt. Div. 1957-61; Sec.-Gen. Second UN Conf. on Peaceful Uses of Atomic Energy 1958; Dir.-Gen. Int. Atomic Energy Agency (IAEA) 1961-(81); mem. Royal Swedish Acad. of Eng. Sciences 1953, Royal Swedish Acad. of Sciences 1972; Fellow, American Nuclear Soc. 1961; Hon. mem. British Nuclear Eng. Soc. 1963; Atoms for Peace Award 1968; Gold Medal, Province of Vienna 1971; Dr. h.c. (Graz) 1968, (Acad. Mining and Metallurgy, Cracow) 1971, (Bucharest) 1971, (Chalmers Inst. of Tech., Gothenburg, Sweden) 1974, (Moscow State Univ.) 1977, (Columbia) 1977, (Buenos Aires) 1977, (Budapest Tech. Univ.); Hon. Senator (Vienna Univ.) 1977. *Address:* International Atomic Energy Agency, Kaerntnerring, A-1010, Vienna I (Office); Krapfenwaldgasse 48, 1190 Vienna, Austria (Home). *Telephone:* 52-45-11 (Office); 32-24-24 (Home).

EKMAN, Wilhelm; Swedish steel executive; b. 13 Nov. 1912, Korsnäs; s. of Wilhelm Ekman and Martha Gerdts; m. Birgitta Lübeck 1940; two s. three d.; ed. Royal Inst. of Technology, Stockholm. Blast Furnace and Open Hearth Engineer, Fagersta Bruks AB 1937-43, Man. 1943-51; Technical Dir. Steelworks, Uddeholms AB 1952-56, Pres. 1956-75; Fed. of Swedish Industries (Pres. 1965-66), Skandinaviska Enskilda Banken; Pres. Swedish Ironmasters' Assen.; Commdr. 1st Class, Royal Order of Vasa. *Address:* Strandvägen 51, 11523 Stockholm, Sweden. *Telephone:* 08-671114.

EKWENSI, Cyprian; Nigerian pharmacist and author; b. 26 Sept. 1921, Minna, Northern Nigeria; ed. Achimota Coll., Ghana, School of Forestry, Ibadan, Higher Coll., Yaba, Chelsea School of Pharmacy, Univ. of London and Govt. Coll., Ibadan. Lecturer in Biology, Chem. and English, Igbobi Coll., Lagos 1947-49; Lecturer, School of Pharmacy, Lagos 1949-56; Pharmacist, Nigerian Medical Service 1956; Head of Features, Nigerian Broadcasting Corpn. 1956-61; Dir. of Information, Fed. Ministry of Information, Lagos 1961-66; Dir. of Information Services, Enugu 1966; Chair. East Cen. State Library Board, Enugu 1971-75; Man. Dir. Star Printing and Publishing Co. Ltd. 1975-; Visiting lecturer, Iowa Univ. mem. Pharmaceutical Socs. of Great Britain and Nigeria, Nigerian Arts Council, Soc. of Nigerian Authors, Inst. Public Relations Nigeria and U.K.; Dag Hammarskjöld Int. Award for Literary Merit 1968. *Publications:* When Love Whispers, Ikolo the Wrestler 1947, The Leopard's Claw 1950, People of the City 1954, Passport of Mallam Ilia, The Drummer Boy 1960, Jagua Nana 1961, Burning Grass, An African Night's Entertainment, Yaba Round about Murder 1962, Beautiful Feathers 1963, Great Elephant Bird, Rainmaker 1965, Lokotown, Juju Rock, Trouble in Form VI, Iska, Boa Suitor 1966, Coal Camp Boy 1973, Samankwe in the Strange Forest 1974, Samankwe and the Highway Robbers, Restless City, Christmas Gold 1975, Survive the Peace 1976. *Leisure interests:* photography, Adire Tie-Die. *Address:* 15 Savage Street, P.O. Box 317, Enugu, Nigeria; Iowa University, Iowa City, Ia. 52242, U.S.A. *Telephone:* Enugu 3149.

ELAHI CHAUDHRY, Fazal, B.SC., M.A.(ECONS.), LL.B.; Pakistani lawyer and politician; b. 1 Jan. 1904, Punjab Province; ed. Muslim Univ., Aligarh; joined Gujarat District Bar 1929; mem. Gujarat District Board 1931-53; Head District Muslim League 1944; mem. Punjab Legislative Assembly 1945-56; Parl. Sec. Punjab Govt. 1947-48, Minister for Educ. and Health 1948-56; Speaker W. Pakistan Assembly 1956-58; mem. Nat. Assembly 1962; Hilal-e-Quaid-e-Azam 1967; Deputy Speaker 1965-70, Speaker 1971-73; Pres. of Pakistan Aug. 1973-78; Pakistan People's Party. *Address:* c/o The Presidency, Rawalpindi, Pakistan.

ELATH, Eliahu, B.A., M.A., PH.D.; Israeli diplomatist; b. 30 July 1903, Snowsk, Russia; s. of Menahem and Rivka Epstein; m. Zehava Zalel 1931; ed. Hebrew Univ. of Jerusalem and American Univ. of Beirut. Jewish Agency 1934; Jewish Agency Observer to San Francisco Conf. 1945; Head of Jewish Agency's Political Office in Washington, D.C. and Special Rep. of Provisional Council of Govt. of Israel 1948; Israel Amb. to U.S.A. 1948-50; Minister to Great Britain 1950-52; Amb. 1952-59; Adviser, Ministry of Foreign Affairs 1959-60; Pres. Hebrew Univ., Jerusalem 1961-67; Pres. Israel Oriental Soc.; Vice-Pres. Jewish Colonization Assen. (ICA); Hon. Ph.D.; Chair. Afro-Asian Inst., Tel-Aviv. *Publications:* Bedouin, their Life and Manners 1934, Trans-Jordan 1935, Israel and her Neighbours 1959, San Francisco Diary 1971, Britain's Routes to India 1971, Zionism and the Arabs 1974, Zionism at the UN, a Diary of the First Days 1976. *Leisure interests:* music and reading. *Address:* 17 Bialik Street, Beth Hakerem, Jerusalem, Israel. *Telephone:* 524615.

ELDIN, Gérard; French international civil servant; b. 21 March 1927, Cannes; s. of Charles and Elise Eldin; m. Marie-Cécile Bergerot 1960; two s. two d.; ed. Univ. d'Aix-en-Provence and Ecole Nationale d'Administration. Insp. of Finances 1954-58; served in the Treasury 1958-63; Adviser to Minister of Finance and Econ. Affairs 1963-65; Deputy Dir. Dept. of Planning 1965-70; Deputy

Sec.-Gen. OECD 1970-; Chevalier, Ordre national du Mérite. *Leisure interests:* tennis, music, local history, archaeology. *Address:* 63 bis rue de Varenne, 75007 Paris, France. *Telephone:* 551-51-86.

ELDJÁRN, Dr. Kristján, M.A., PH.D.; Icelandic academic and politician; b. 6 Dec. 1916, Tjorn, Iceland; ed. Univ. of Copenhagen, Univ. of Iceland. Assistant, Nat. Museum of Iceland 1945-47; Curator 1947-68; mem. Council of Archaeological Soc. of Iceland 1945-; mem. Council of Icelandic Literary Soc. 1961-68; mem. Perm. Comm. of Union Internationale des Sciences Préhistoriques et Protohistoriques 1962-; Chair. Cttee. on Icelandic Place Names; mem. Icelandic Soc. of Arts and Sciences 1950-; Pres. of Iceland 1968-. *Publications:* The ruins of Stong 1947, Twelve Articles on Archaeological Finds in Iceland 1948, The Cathedral of Holar 1950, The Church of Grof, Archaeological Finds from Pagan Times in Iceland, History of the National Museum 1962; editor of Journal of Archaeological Society 1949-. *Address:* Office of the President, Reykjavík, Iceland.

ELEY, Sir Geoffrey (Cecil Ryves), C.B.E.; British company director; b. 18 July 1904, East Bergholt, Suffolk; s. of Charles Eley; m. Penelope Hughes Wake-Walker 1937; two s. two d.; ed. Eton, Trinity Coll., Cambridge and Harvard Univ.; on editorial staff of Financial News 1926-28; int. banking and finance in England, France, Switzerland and U.S.A. 1928-32; London Man. of Post and Flagg N.Y. 1932-39; Naval Intelligence Div. Admiralty 1939-40; Capital Issues Cttee. 1940-41; Dir. of Contracts Ministry of Supply 1941-46; Dir. of Overseas Disposals 1946-47; Dir. Thomas Tilling Co. Ltd. 1949-65, Chair. 1965-76; Dir. BOC Int. Ltd. 1959-64, Vice-Chair. 1964-76; Dir. British Bank of the Middle East 1948-52, Deputy Chair. 1952-77; Dir. Bank of England 1949-66, mem. London Electricity Board 1948-58; Chair. British Drug Houses Ltd. 1948-65, Brush Group Ltd. 1953-58, Richard Thomas and Baldwins Ltd. 1959-64, Heinemann Group of Publishers Ltd. 1965-76; Dir. Equity and Law Assurance Soc. 1948-, Airco Inc. 1974-76; mem. Council Royal U.K. Benevolent Assen., Council, Friends of the Tate Gallery; Vice-Pres. Middle East Assen; High Sheriff Co. of London 1954-55, High Sheriff of Greater London 1966-67. *Leisure interests:* gardening, the arts, foreign travel. *Address:* 27 Wynnstay Gardens, Allen Street, London, W8 6UR, England. *Telephone:* 01-748 2020.

ELFVING, Gösta; Swedish journalist and politician; b. 2 Sept. 1908, Ludvika; s. of Oscar E. Signe Jonsson-Elfving; m. A. L. Ljungkvist 1933; one d.; on staff of Värmlands Folkblad 1925, Editor 1934-40; Editor-in-Chief Västogöta-Demokraten Borås 1940-44; Editor-in-Chief Morgon-Tidningen Stockholm (leading Swedish Labour daily) 1944-57; mem. Exec. Social Democratic Party 1944-58, State Youth Cttee. 1939-51, State Tourist Cttee. 1948-51, of Parl. 1954-57; Chair. or mem. of several Royal Comms.; Gov. Kopparbergs (Län) 1957-73. *Address:* Vasagatan 1C, 4 tr., 752 54 Uppsala, Sweden.

ELIAS, Ibrahim; Sudanese economist and politician; b. 29 Aug. 1923, Omdurman; s. of Elias R. and M. E. Guzuli Elias; m. Alia Elias 1948; five s. three d.; ed. Gordon Memorial Coll., Khartoum, Queen's Univ., Belfast and Manchester Univ. Schoolmaster 1949-56; trade officer, Ministry of Commerce, Industry and Supply 1956-62; Asst. Man. Dir. Sudan Industrial Bank 1962-65; Asst. Under-Sec. Ministry of Econ. 1965-69; Gen. Man. Gulf Fisheries, Kuwait 1969-70; Man. Dir. Blue Nile Brewery, Khartoum and Chair. Leather and Plastic Industries Corpn. 1970-72; Ministry of the Treasury Oct. 1972-; Chair., Man. Dir. Sudan Investment Co. Ltd. 1974-; Chair. El Nilein Bank 1974-76. *Publication:* Studies in Sudan Economy 1969. *Leisure interests:* reading, raising horses, chess. *Address:* P.O. Box 1017, Omdurman, Sudan. *Telephone:* 70288, 74077 (Office); 54516 (Home).

ELIAS, Taslim Olawale, Q.C., B.A., LL.M., PH.D., LL.D.; Nigerian lawyer; b. 11 Nov. 1914, Lagos, Nigeria; s. of Momolesho Elias Frowoshere; m. Ganiat Yetunde Elias 1959; three s. two d.; ed. C.M.S. Grammar School, Lagos, Igboli Coll., Lagos, Univ. Coll., London and Inst. of Advanced Legal Studies, London. Yarborough Anderson Scholar of Inner Temple 1946-49; called to the bar 1947; Simon Research Fellow, Univ. of Manchester 1951-53; Oppenheim Research Fellow, Inst. of Commonwealth Studies, Nuffield Coll. and Queen Elizabeth House, Oxford 1954-60; Visiting Prof. in Politicial Science, Delhi Univ. 1956; mem. Del. to Nigerian Constitutional Conf., London 1958; Fed. Attorney-Gen. and Minister of Justice, Nigeria 1960-66, Attorney-Gen. 1966-71, mem. Fed. Exec. Council 1966-71; Commr. for Justice 1967-71, Chief Justice of Supreme Court 1972-75; mem. Int. Court of Justice 1976- (Vice-Pres. 1979-); Gov. SOAS, London Univ. 1958-61; mem. Gov. Council, Univ. of Nigeria 1959-66; mem. UN Int. Law Comm. 1961-76, Chair. 1970; Chair. UN Cttee. of Constitutional Experts to draft Congo Constitution 1961, 1962; mem. Expert Cttee. drafting OAU Charter 1963; Prof. of Law and Dean of Faculty of Law, Univ. of Lagos, Nigeria 1966-73; Chair. Cttee. of UN Conf. on Law of Treaties 1968, 1969; mem. Exec. Inst. of Human Rights, Strasbourg 1969; Leading Counsel in Namibia Case, ICJ 1971; Chair. Governing Council, Nigerian Inst. of Int. Affairs 1972-; Chair. Asian-African Legal Consultative Cttee. 1972; mem. Exec. Int. Comm. of Jurists 1975; Pres. Nigerian Soc. of Int. Law; Chair. African Inst. of Int. Law; Assoc. mem. Inst. of Int. Law 1969; Hon. mem. American Soc. of Int. Law 1973; Pres. World Assen. of Judges 1975; World Jurist Award 1973; Hon. LL.D. (Dakar) 1969, (Ahmadu Bello) 1972, (Ile Ife) 1974, (Howard) 1975; Hon. D.Litt. (Nsukka) 1973, (Lagos) 1974. *Publications:* Nigerian Land Law and Custom 1951, Nigerian Legal System 1954, Ghana and Sierra Leone: Development of their Laws and Constitutions 1962, British Colonial Law: A Comparative Study 1962, Government and Politics in Africa 2nd ed. 1963, Nature of African Customary Law 2nd edn. 1962, Nigeria: Development of its Laws and Constitution 1965, Problems Concerning the Validity of Treaties 1971, Nigerian Magistrate and the Offender 1972, Law and Social Change in Nigeria 1972, Africa and the Development of International Law 1972, Law in a Developing Society 1973, Modern Law of Treaties 1974, Judicial Process in Commonwealth Africa 1977; Co-author of British Legal Papers 1958, International Law in a Changing World 1963, Sovereignty Within the Law 1965, African Law: Adaptation and Development 1965, Law, Justice and Equity 1967, Nigerian Prison System 1969, Nigerian Press Law 1969, Snr. Gen. Editor Nigerian Law Journal, many articles. *Address:* c/o International Court of Justice, Peace Palace, The Hague, Netherlands (Office); 20 Ozumba Mbadiwe, Victoria Island, Lagos, Nigeria (Home). *Telephone:* 27549.

ELIAS IV MOAWAD; Arab ecclesiastic; b. 1914, Arsoun, Metn, Lebanon; ed. Theological Inst. of Halki, Istanbul. Greek Orthodox Patriarch of Antioch and All the East Sept. 1970-. *Address:* P.O. Box 9, Damascus, Syria. *Telephone:* 116329-110329.

ELIEL, Ernest L., M.SC., PH.D.; American professor of chemistry; b. 28 Dec. 1921, Cologne, Germany; s. of Oskar Eliel and Luise Tietz; m. Eva Schwarz 1949; two d.; ed. Univs. of Edinburgh, Havana and Illinois. Asst. Laboratorios Vieta-Plasencia 1943-46; Instructor, Univ. of Notre Dame 1948-50, Asst. Prof. 1950-53, Assoc. Prof. 1953-60, Prof. 1960-72, Head Dept. of Chem. 1964-66; W. R. Kenan Jr., Prof. of Chem., Univ. of N. Carolina; Chapel Hill 1972–; Summer Consultant, Standard Oil of Indiana Inc. 1956; Nat. Science Foundation Senior Post-doctoral Fellow, Harvard Univ. 1958, Calif. Inst. of Technology 1958-59, Eidgenössische Technische Hochschule, Zurich 1967-68; Guggenheim Fellow 1975-76; mem. American Nat. Acad. of Sciences; Lavoisier Medal 1968 and other awards. *Publications:* Stereochemistry of Carbon Compounds 1962, Conformational Analysis (co-author) 1965, Elements of Stereochemistry 1969 and over 200 articles in professional journals; co-editor: Topics in Stereochemistry 1967-. *Leisure interests:* photography, travel, swimming, hiking. *Address:* Department of Chemistry, University of North Carolina, Chapel Hill, N.C. 27514 (Office); 725 Kenmore Road, Chapel Hill, N.C. 27514, U.S.A. (Home). *Telephone:* 919-933-6197 (Office); 919-929-7966 (Home).

ELIZABETH II; Queen of Great Britain and Northern Ireland and of Her other Realms and Territories (see under Reigning Royal Families at front of book for full titles); b. 21 April 1926, London; succeeded to the Throne following death of Her father, George VI, 6 Feb. 1952; married, Nov. 1947, H.R.H. the Prince Philip, Duke of Edinburgh, b. 10 June 1921; children: Prince Charles Philip Arthur George, Prince of Wales (heir apparent), b. 14 Nov. 1948; Princess Anne Elizabeth Alice Louise, Mrs. Mark Phillips, b. 15 Aug. 1950; Prince Andrew Albert Christian Edward, b. 19 Feb. 1960; Prince Edward Antony Richard Louis, b. 10 March 1964. *Address:* Buckingham Palace, London; Windsor Castle, Berkshire, England; Balmoral Castle, Aberdeenshire, Scotland; Sandringham, Norfolk, England.

ELIZABETH ANGELA MARGUERITE; H.M. Queen Elizabeth the Queen Mother, Lady of the Order of the Garter, Lady of the Order of the Thistle, C.I., G.C.V.O., G.B.E.; member of the British Royal Family; b. 4 Aug. 1900; d. of the 14th Earl of Strathmore and Kinghorne; m. 1923 H.R.H. The Duke of York, later H.M. King George VI (died 1952); reigned as Queen 1936-52. *Address:* Clarence House, London, S.W.1; Royal Lodge, Windsor Great Park, Berks., England; Castle of Mey, Caithness, Scotland.

ELKES, Joel, M.B., CH.B., M.D.; American physician; b. 12 Nov. 1913; Koenigsberg, Germany; s. of Elkanan and Miriam Elkes; m. 1st Dr. Charmian Bourne 1943; one d.; m. 2nd Josephine Rhodes 1975; ed. Univ. of London and Birmingham Medical School, England. Sir Halley Stuart Research Fellow in Pharmacology, Univ. of Birmingham 1942-45, Lecturer in Pharmacology 1945-48, Senior

Lecturer and Act. Dir. Dept. of Pharmacology 1948-50, Prof. and Chair. Dept. of Experimental Psychiatry 1951-57; Consultant Psychiatrist, Birmingham Hospitals and Scientific Dir. Birmingham Regional Psychiatric Early Treatment Centre 1953-57; Chief, Clinical Neuropharmacology Research Center, Nat. Inst. of Mental Health (U.S. Nat. Insts. of Health) 1957-63; Dir. of Behavior and Clinical Studies Center, St. Elizabeth's Hospital 1957-63, Clinical Prof. of Psychiatry, George Washington Univ. School of Medicine 1957-63; Henry Phipps Prof. and Dir. Dept. of Psychiatry and Behavioral Sciences, The Johns Hopkins Univ. School of Medicine, Psychiatrist-in-Chief, The Johns Hopkins Hospital 1963-73; Distinguished Service Prof. The Johns Hopkins Univ. 1973-; Samuel McLaughlin Visiting Prof.-in-Residence, McMaster Univ., Ont. 1975-; Editor Psychopharmacologia, Assoc. Editor Journal of Psychiatric Research; Org. Sec. 1st Int. Neurochemical Symposium; fmr. mem. Central Council Int. Brain Research Org. Research Cttee.; mem. Mental Health Research Fund; Fellow, American Acad. of Arts and Sciences, American Psych. Assn., American Coll. of Psychiatry, Royal Coll. of Psychiatry, U.K., American Coll. Neuropsychopharmacology; Benjamin Franklin Fellow, Royal Soc. Arts; Harvey Lecturer 1962, Salmon Lecturer 1964, Jacob Bronowski Lecturer 1977; First Pres. Amer. Coll. of Neuropsychopharmacology; Pres. Amer. Psychopathological Assn. 1968, etc. *Publications:* Effects of Psychosomimetic Drugs in Animals and Man 1956, Drug Effects in Relation to Reactor Specificity within the Brain 1958, Ataractic and Hallucinogenic Drugs in Psychiatry 1958, Psychopharmacology: The Need for some Points of Reference 1959, Schizophrenic Disorder in Relation to Levels of Neural Organisation: The Need for Some Conceptual Points of Reference 1961, Subjective and Objective Observation in Psychiatry 1962, Behavioral Pharmacology in relation to Psychiatry 1967. *Leisure interests:* painting, clubs. *Address:* c/o Department of Psychiatry, McMaster University Medical Centre, Hamilton, Ont., Canada. *Telephone:* (416) 525-9140.

ELLICOTT, Robert James, Q.C.; Australian lawyer and politician; b. 15 April 1927, Moree, N.S.W.; s. of John James Ellicott and Ruby Violet Doney; m. Colleen Betty Turton 1950; two s. two d.; ed. Fort Street Boys' High School and Univ. of Sydney; admitted to Bar in N.S.W. 1950, Victoria 1960; appointed Q.C. 1964; Commonwealth Solicitor-Gen. 1969-73; mem. House of Reps. for Wentworth, N.S.W. 1974-; Opposition spokesman on Consumer Affairs and Commerce 1974-75; Attorney-Gen. 1975-77; Minister for Home Affairs and for the Capital Territory Dec. 1977-, for Cultural and Sporting Affairs Dec. 1978-. *Leisure interests:* tennis, fishing. *Address:* Parliament House, Canberra, A.C.T. 2600, Australia.

ELLIOT, Sir John, Kt.; British business executive; b. 1898, London; ed. Marlborough and Sandhurst; served 3rd Hussars 1917-20; journalist 1920-24; joined Southern Railway (public relations and advertising) 1925, Traffic Development Officer 1930, Asst. Traffic Man. 1933; many visits to U.S.A., Canada and Australia to study rail, road and air services; Deputy Gen. Man., Southern Railway 1937, Gen. Man. 1947; Chief Regional Officer, Southern Region, British Railways 1948-49, London Midland Region 1950-51; Chair. British Railway Exec. 1951-53; Chair. London Transport 1953-59; Chair. Thos. Cook and Son Ltd. 1959-67, Pullman Car Co. Ltd. 1959-62, Willing and Co. Ltd. 1959-70; Dir. Commonwealth Devt. Corpn. 1959-66, Int. Sleeping Car. Co. (Wagons Lits) 1962-71, Thos. Tilling and Co. Ltd. 1959-70, British Airports Authority 1965-69, Railway Air Services Ltd., Channel Island Airways Ltd.; Pres. Inst. of Transport 1953-54; Vice-Pres. Union Internationale des Chemins de Fer 1947 and 1951-53; Chair. London and Provincial Posters Group 1966-71, Australian Posters (Pty.) Ltd. 1970-73; transport adviser to Govt. of Victoria, Australia 1949; mem. World Bank Survey (Transport), East Africa 1969; Consultant, F. C. Forman and Partners (Engineers) 1969-; High Sheriff of London 1970-71; Vice Pres. Essex County Cricket Club 1974-; Officier Légion d'honneur, American Medal of Freedom. *Publications:* The Way of the Tumbrils 1958, Early Days of the Southern Railway 1960, Where Our Fathers Died 1964, Speaking of That 1964; book reviewer 1955-. *Leisure interests:* military history, gardening, fishing, shooting, cricket. *Address:* Stonyfield, Great Easton, Dunmow, Essex, England.

ELLIOTT, Sir Norman Randall, Kt., C.B.E., M.A.; British electricity executive; b. 19 July 1903, London; s. of William Randall Elliott and Catherine Dunsmore; m. Phyllis Clarke 1963; ed. privately and St. Catharine's Coll., Cambridge; called to Bar, Middle Temple, London 1932; Col. Deputy Dir. of Works, 21 Army Group 1939-44; mem. North of Scotland Hydro Electric Board, London Passenger Transport Board, London and Home Counties Joint Electricity Authority; Chair. South-Eastern Electricity Authority; Chair. South-Eastern Electricity Board 1948-62, South of Scotland Electricity Board 1962-67; Dir. James Howden & Co. Ltd. 1967-68, Chair. Howden Group 1973-; Chair. The Electricity Council 1968-72; Dir. Newarthill & McAlpine Group 1972-; Dir. and Consultant Schlumberger Ltd. 1977-; Chair. British Nat. Cttee., Union Int. des Producteurs et Distributeurs d'Energie Electrique. *Publications:* Electricity Statutes, Orders and Regulations 1951, 1967. *Leisure interests:* ball games, theatre. *Address:* 3 Herbrand Walk, Cooden, Sussex, England.

ELLIOTT, Osborn, A.B.; American journalist; b. 25 Oct. 1924, New York City; s. of John and Audrey N. (Osborn) Elliott; m. 1st Deirdre M. Spencer 1948, divorced 1972; three d.; m. 2nd the fmr. Mrs. Inger A. McCabe; two step d., one step s.; ed. The Browning School (N.Y.), St. Paul's School (Concord) and Harvard Univ. Reporter N.Y. Journal of Commerce 1946-49; Contributing Editor Time 1949-52, Assoc. Editor 1952-55; Senior Business Editor Newsweek 1955-59, Man. Editor 1959-61, Editor 1961-69, 1972-75, Editor-in-Chief 1969-72, 1975-, Vice-Chair. 1970, Pres. 1971, Chief Exec. Officer 1971-, Chair. of Board 1972-; Deputy Mayor for Econ. Devt., New York 1976-; fmr. Dir. Washington Post Co.; Trustee, American Museum of Natural History, Asia Soc., New York Public Library 1968-72, St. Paul's School 1969-73, Winston Churchill Foundation of the U.S. Ltd. 1970-73; mem. Council on Foreign Relations; mem. Board of Overseers of Harvard Coll. 1965-71; Fellow American Acad. of Arts and Sciences; Trustee, New York Public Library 1968-72, 1977; served with U.S. Naval Reserve 1944-46. *Publications:* Men at the Top 1959; Editor The Negro Revolution in America 1964. *Address:* 225 Broadway, New York, N.Y. 10007, U.S.A. (Office).

ELLIOTT, Roger James, D.PHIL., F.R.S.; British physicist; b. 8 Dec. 1928, Chesterfield; s. of James Elliott and Gladys Elliott (née Hill); m. Olga Lucy Atkinson 1952; one s. two d.; ed. Swanwick Hall School, Derbyshire and New Coll., Oxford. Research Assoc. Univ. of Calif., Berkeley 1952-53; Research Fellow, Atomic Energy Research Est., Harwell 1953-55; Lecturer, Univ. of Reading 1955-57; Lecturer, Oxford Univ. 1957-65, Reader 1965-74, Fellow, St. John's Coll. 1957-74, Wykeham Prof. of Physics 1974-; Visiting Prof. Univ. of Calif., Berkeley 1960-61; Miller Visiting Prof. Univ. of Ill., Urbana 1966; Maxwell Medal (Physical Soc.) 1968. *Publications:* Magnetic Properties of Rare Earth Metals 1972, Solid State Physics and its Applications 1973; articles in learned journals. *Leisure interests:* tennis, squash. *Address:* 11 Crick Road, Oxford, England, *Telephone:* Oxford 58369.

ELLIS, Sir Charles Drummond, Kt., B.A., PH.D., F.R.S.; British physicist; b. 11 Aug. 1895, London; s. of Isabella Carswell and Charles Ellis; m. Paula Dantziger 1925; no c.; ed. Harrow, Royal Military Acad. Woolwich, Trinity Coll., Cambridge; formerly Fellow and Lecturer Trinity Coll., Cambridge, Lecturer Physics Dept. Cambridge Univ.; Wheatstone Prof. of Physics King's Coll. London Univ. 1936-46; External Prof. of Physics at all Canadian universities 1938-39; Scientific Adviser to Army Council 1943-46; Dir. Finance Corpn. for Industry 1945-69; Gov. Harrow School; mem. Nat. Coal Board 1946-55; Pres. British Coal Utilisation Research Assn. 1946-55; Consultant to Gas Council, to Battelle Inst., to British American Tobacco Co. Ltd. and to Tobacco Research Council. *Publications:* Radiations from Radioactive Substances (with Sir Ernest Rutherford and James Chadwick) 1930. *Leisure interests:* golf, cooking. *Address:* Seawards, Cookham Dean, Berkshire, England. *Telephone:* Marlow 3166.

ELLIS, Elmer, B.A., A.M., PH.D.; American historian; b. 27 July 1901, McHenry County, N. Dakota; s. of Thomas Clarkson and Lillie Jane (Butterfield) Ellis; m. Ruth Clapper 1925; ed. Univ. of N. Dakota and State Univ. of Iowa. Instructor N. Dakota State Teachers' Coll. 1925-28; Lecturer in History, State Univ. of Iowa 1928-30; Asst. Prof., Assoc. Prof. and Prof. of History, Univ. of Missouri 1930-; Acting Dean of Graduate School, Univ. of Missouri, summers 1936, 1939, 1941, Vice-Pres. in charge of Extra Divisional Educational Activities 1945-46, Dean of Faculty Coll. of Arts and Science 1946-55, Acting Pres. 1954-55, Pres. 1955-66; Pres. Emer. Univ. of Missouri 1966-; Pres. Nat. Council for Social Studies 1937; U.S. Army History Branch, War Dept. Gen. Staff 1943-45, mem. History Advisory Cttee., U.S. Army and Chair. 1957-59; Pres. Miss. Valley Hist. Assn. 1950; mem. Board of Editors Mississippi Valley Historical Review 1947-50, Board of Dirs. Social Science Research Council 1946-51; Fulbright Visiting Lecturer, Univ. of Amsterdam 1951-52; Pres. Board of Dirs. Harry S. Truman Inst. for Nat. and Int. Affairs 1957-77; mem. Board of Foreign Scholarships, U.S. Dept. of State 1958-61, Civil Rights Advisory Cttee. U.S. Dept. of Agriculture 1965-68; Pres. Nat. Comm. on Accrediting 1962-64; Pres. Nat. Assn. State Univs. and Land-Grant Colls. 1964-65; Consultant Educ. Comm. of States 1967-71, Rockefeller Foundation 1967; Educational Consultant on Admin., Univ. of Del Valle, Cali, Colombia 1967, Texas Technological Univ. 1968-69; mem. Board

of Curators, Stephens Coll. 1967-73; Consultant on Admin. Structure, Orissa Agric. and Tech. Univ., Bhubaneswar, India 1970; Pres. Mo. State Historical Soc. 1974-77; Hon. LL.D. (Univ. of N. Dakota 1946, Central Coll., Fayette, Missouri 1955, Drury Coll., Springfield, Missouri 1956, Washington Univ. 1960); Hon. Litt.D. (Culver-Stockton Coll., Canton, Mo. 1961); D.Litt. (St. Louis Univ. 1966)). *Publications:* Education Against Propaganda 1937, Mr. Dooley at his Best 1938, Henry Moore Teller, Defender of the West 1941, Mr. Dooley's America, a Life of Finley Peter Dunne 1941, Toward Better Teaching in College 1954. *Address:* 323 Jesse Hall, University of Missouri, Columbia, Missouri (Office); 107 W. Brandon Road, Columbia, Missouri, U.S.A. (Home). *Telephone:* (314) 882-4269 (Office).

ELLIS, Howard S., B.A., M.A., PH.D., LL.D.; American economist; b. 2 July 1898, Denver, Colo.; s. of Sylvester B. Ellis and Nellie B. Young; m. Hermine Hoerlesberger 1935; three d.; ed. Univs. of Iowa, Michigan, Harvard, Heidelberg and Vienna. Instructor and later Prof., Univ. of Michigan 1920-22, 1924-38, of Calif. 1938-43, 1946-50 and 1951-65; Visiting Prof., Columbia 1944-45, 1949-50, Tokyo 1951, Wisconsin 1972; econ. analyst, Fed. Reserve Board, Washington 1943-44; Asst. Dir. of Research and Statistics 1944-45; Econ. Policy Cttee., U.S. Chamber of Commerce 1945-46; Dir. Marshall Aid Research Project Council on Foreign Relations 1949-59; Pres. American Econ. Assen. 1949; Pres. Int. Econ. Assen. 1953-56, mem. Exec. Cttee. 1956-62; Visiting Prof., Univ. of Bombay 1958-59; Head, UNESCO Mission on Econs. in Latin America 1960, Econ. Research Center, Athens 1963; U.S. Aid Mission, Rio de Janeiro 1965-67; IV Semana Económica Internacional, Barcelona 1973. *Publications:* German Monetary Theory 1905-1933 1934, Exchange Control in Central Europe 1941, The Economics of Freedom: The Progress and Future of Aid to Europe 1950, Approaches to Economic Development 1955, Private Enterprise and Socialism in the Middle East 1970; Editor The Economy of Brazil 1969, Fact and Fancy about the Oil Industry 1978, Notes on Stagflation 1978. *Leisure interests:* music, garden. *Address:* 936 Cragmont Avenue, Berkeley, Calif. 94708, U.S.A. *Telephone:* 525-2734.

ELLISON, Rt. Rev. Gerald Alexander, P.C., M.A., D.D.; British ecclesiastic; b. 19 Aug. 1910, Windsor, Berks; s. of John Henry Joshua Ellison and Sara Dorothy Graham Crum; m. Jane Elizabeth Gibbon 1947; one s. two d.; ed. Westminster School, New Coll., Oxford and Westcott House, Cambridge. Curate Sherborne Abbey 1935-37; Domestic Chaplain to Bishop of Winchester 1937-39, to Archbishop of York 1943-46; Chaplain to R.N.V.R. (mentioned in despatches) 1939-43; Domestic Chaplain to Portsea 1946-50; Examining Chaplain to Bishop of Portsmouth 1949-50; Canon of Portsmouth 1950; Bishop of Suffragan of Willesden 1950-55; Bishop of Chester 1955-73; Bishop of London 1973-; Dean of the Chapels Royal 1973-; Prelate of the Order of the British Empire and of Imperial Soc. of Knights Bachelor 1973-; Episcopal Canon of Jerusalem 1977; Select Preacher Oxford Univ. 1940, 1961, 1972, Cambridge Univ. 1957; Chaplain Master Mariners' Co. 1946-73; Glass Sellers' Co. 1951-73; Chaplain and Sub-Prelate Order of St. John; Chair. Bd. of Governors Westfield Coll., London Univ. 1953-67; mem. Council of King's Coll., London Univ.; mem. Archbishop's Comm. on Women and Holy Orders 1963-66, Archbishop's Comm. on Church and State 1967; Pres. Actors Church Union; Chair. Oxford Soc.; Fellow King's Coll., London Univ. 1968; Hon. Fellow Westfield Coll., London Univ., New Coll., Oxford Univ.; Hon. Bencher Middle Temple 1976; Hon. Chaplain R.N.R.; a steward of Henley Royal Regatta. *Publications:* The Churchman's Duty 1957, The Anglican Communion 1960. *Leisure interests:* oarsmanship, walking. *Address:* London House, 8 Barton Street, Westminster, SW1P 3RX, London, England. *Telephone:* 01-222 8661/2.

ELLISON, Ralph (Waldo); American writer; b. 1 March 1914, Okla.; ed. Tuskegee Inst.; m. Fanny McConnell 1946; writer of reviews, short stories, articles and criticism 1939-; Fellow, American Acad. Rome 1955-57; subsequently taught at Bard Coll. 1958-61; Alexander White Visiting Prof., Univ. of Chicago 1961; Visiting Prof. of Writing, Rutgers Univ. 1962-64; Albert Schweitzer Prof. in Humanities, N.Y. Univ. 1970-; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Sciences, American Acad. of Arts and Letters, and others; Rosenwald Fellowship; Nat. Book Award and Russwurm Award for first novel Invisible Man; lecturer on American culture and literature and Negro folklore at several American universities and at Salzburg Seminar 1954; several hon. degrees; Medal of Freedom 1969; Chevalier de l'Ordre des Arts et Lettres 1970. *Publications:* Invisible Man 1952, Shadow and Act (essays) 1964. *Address:* 730 Riverside Drive, New York, N.Y. 10031, U.S.A.; c/o Secker and Warburg, 14 Carlisle Street, London, W.1, England.

ELLMANN, Richard, PH.D., F.R.S.L.; American professor of English literautre; b. 15 March 1918, Highland Park, Mich.; s. of James I. Ellmann and Jeanette (née Barsook); m. Mary Donahue 1949; one s. two d.; ed. Highland Park High School, Yale Univ., Trinity Coll., Dublin. Instructor at Harvard Univ. 1942-43, 1947-48; served U.S. Naval Reserve, Office of Strategic Services 1943-46; Briggs-Copeland Asst. Prof. of English Composition, Harvard 1948-51; Prof. of English, Northwestern Univ. 1958-63, Franklin Bliss Snyder Prof. 1963-68; Prof. of English, Yale Univ. 1968-70; Goldsmiths' Prof. of English Literature, Oxford Univ. 1970-; mem. Nat. Inst. of Arts and Letters 1972; Rockefeller Fellow 1946-47, Guggenheim Fellow 1950, 1957, 1970, Kenyon Review Fellow in Criticism 1955-56, Frederick Ives Carpenter Visiting Prof., Chicago Univ. 1959, 1968, 1971-73, Emory Univ. 1977-79; Grantee, Nat. Endowment for the Humanities 1977-78; Nat. Book Award 1960; Hon. D.Litt. (Nat. Univ. of Ireland) 1976, Hon. Ph.D. (Gothenburg) 1978. *Publications:* Yeats: the Man and the Masks 1948, The Identity of Yeats 1954, James Joyce: A Biography 1959, Eminent Domain 1967, Ulysses on the Liffey 1972, Golden Codgers 1973, The Consciousness of Joyce 1977. *Address:* New College, Oxford, England. *Telephone:* (0865) 48451.

ELLSCHEID, Robert, D.IUR.; German laywer and business executive; b. 19 Feb. 1900; s. of Michael Ellscheid and Maria Zens; m. Hertha Hiedemann 1926; two d.; ed. Cologne and Bonn Univs.; served First World War; lawyer 1924-; Chair. Advisory Econ. Council, British Zone 1946-47; Lecturer on Industrial Rights, Cologne Univ. 1947-52, Prof. 1952; Chair. of Supervisory Board, Zanders Feinpapiere GmbH, Felix Heinrich Schoeller GmbH; mem. Supervisory Board Kaufhof AG, Schwäbische Zellstoff AG, BASF Farben und Fasern AG; Chair. of Advisory Council Gerolsteiner Sprudel KG, Lindgens und Söhne, Herbol-Werke GmbH; mem. of Advisory Council Rhein. Erz- und Metallhandel GmbH, Atlas Copco Deutschland GmbH, Atlas Copco MCT, J. W. Zanders KG, ITS Int. Tourist Services Länderreisedienste GmbH KG; mem. of joint Advisory Council of Allianz Versicherungs AG and Allianz Lebensversicherungs AG; mem. Cen. Cttee. Dresdner Bank AG; lawyer at Provincial Court of Cologne; Prof.h.c. Univ. of Cologne, Senator h.c. 1970; Pres. h.c. of German Assen. for Industrial Patents and Copyrights, Berlin. *Address:* Köln 1, Habsburgerring 9 (Office); Köln-Marienburg, Eugen-Langen-Strasse 2, Federal Republic of Germany (Home).

ELLSWORTH, Ralph E., PH.D.; American librarian and professor; b. 22 Sept. 1907; Forest City, Iowa; s. of Wallace and Helma Ellsworth; m. Theda Chapman 1931; two s.; ed. Oberlin Coll., Western Reserve Univ., Chicago Univ. Librarian, Adams State Coll. 1931-34; Dir. Libraries, Colorado Univ. 1937-43; Dir. Libraries, Iowa Univ. 1944-58; Dir. Libraries and Prof. of Library Science, Colorado Univ. 1958-72, Prof. Emer. 1972-. *Publications:* (with D. E. Bean) Modular Planning for College and Small University Libraries 1948, Library Buildings 1960, The American Right Wing 1960, Planning College and University Buildings 1960, The School Library: Facilities for Independent Study 1964, The School Library 1965, The Economics of Book Storage 1969, Academic Library Buildings 1973, Manual for Planning Academic Library Buildings 1975. *Leisure interests:* travel, angling, music, library architecture. *Address:* 860 Willowbrook Road, Boulder, Colo. 80302, U.S.A. *Telephone:* (303) 443-2592.

ELMANDJRA, Mahdi, PH.D.; Moroccan international official; b. 13 March 1933, Rabat; s. of M'Hamed Elmandjra and Rabia Elmrini; m. Amina Elmrini 1956; two d.; ed. Lycée Lyautey, Casablanca, Putney School, Vermont, U.S.A., Cornell Univ., London School of Economics and Faculté de Droit, Univ. de Paris. Head of Confs., Law Faculty, Univ. of Rabat 1957-58; Adviser, Ministry of Foreign Affairs, and to Moroccan Del. to UN 1958-59; Dir.-Gen., Radiodiffusion Télévision Marocaine 1959-60; Chief of African Div., Office of Relations with Mem. States, UNESCO 1961-63; Dir. Exec. Office of Dir.-Gen. of UNESCO 1963-66; Asst. Dir.-Gen. of UNESCO for Social Sciences, Human Sciences and Culture July 1966-Dec. 1969; Visiting Fellow, Centre of Int. Studies, London School of Econs. and Political Science 1970; Asst. Dir.-Gen. of UNESCO for Pre-Programming 1971-74; Special Adviser to Dir.-Gen. of UNESCO 1975-76; Prof. Univ. Mohamed V, Rabat 1977-; Pres. World Future Studies Fed.; Co-Dir. Learning Project, Club of Rome; Vice-Pres. Assen. Maroc-Japon; mem. World Acad. of Art and Science, Pugwash Conferences, Soc. for Int. Devt.; Chevalier, Ordre des Arts et Lettres (France). *Publications:* The League of Arab States 1957, Nehru and the Modern World 1968, Relations between Japanese and Western Arts 1968, Economie et Culture (in Economie et Société Humaine) 1972, Informatics in Government (IBI World Conf. on Informatics) 1972, Globalidad Interdisciplinaria y Exigencias Sociales Cualitativas 1972, The United Nations System: An

Analysis 1973, Global Cooperation as an Operational Concept (with John E. Forbes) 1975, Alternatives for ■ New International Economic Order 1976, The Future of the Socio-Cultural Values of the Mediterranean 1977, International Organization and Development 1977, Political Facets of the North-South Dialogue, 1978, Architects and National Development 1978. *Leisure interests:* reading, skiing. *Address:* B.P. 53, Rabat, Morocco. *Telephone:* Rabat 521-12.

ELMENDORFF, Wilhelm, DR. RER. POL.; German accountant; b. 3 Sept. 1903; ed. Univs. of Freiburg (Breisgau), Berlin and Cologne, and London School of Economics; with Econ. Statistical Insts. and commercial press 1927-34; Chartered Accountant 1934-; Chair. Supervisory Board Preussag, VTG (Vereinigte Tanklager und Transportmittel GmbH) until 1972, Hamburg, Schachtbau Thyssen GmbH, Mülheim-Ruhr; Adviser on Accounting to European Communities 1974-; fmr. Pres. German Inst. of Certified Public Accountants, Düsseldorf; fmr. Pres. Union Européenne des Experts Comptables Economiques et Financiers. *Address:* 4005 Büderich-Meererbusch, Hindenburg Str. 28a, Federal Republic of Germany.

ELSASSER, Walter M., PH.D.; American theoretical physicist and geophysicist; b. 20 March 1904, Mannheim, Germany; s. of Moritz and Johanna (Masius) Elsasser; m. 1st Margaret Trahey 1937, 2nd Susanne Rosenfeld 1964; one s. one d.; ed. Univs. of Heidelberg, Munich and Göttingen. Asst. Technical Univ. of Berlin 1928-30; Instructor in Physics, Frankfurt 1930-33; Research Fellow, Inst. Henri Poincaré, Sorbonne 1933-36; Asst. Meteorologist, Calif. Inst. of Technology 1936-41; Research Assoc., Blue Hill Meteorological Observatory, Harvard Univ. 1941-42; War Research Signal Corps Labs. 1942-44; mem. Radio Wave Cttee. of Nat. Defense Research Cttee. 1944-45; Industrial Researcher, Radio Corpn. of America, N.J. 1945-47; Assoc. Prof. of Physics, Univ. of Pa. 1947-50; Prof., Univ. of Utah 1950-56, Univ. of Calif., San Diego 1956-62; Geophysics, Princeton Univ. 1962-68; Research Prof., Univ. of Maryland 1968-74; Adjunct Prof. of Earth and Planetary Sciences, Johns Hopkins Univ. 1975-; Guest Lecturer, Sorbonne, paris 1935, 1936, Lecturer, Mass. Inst. of Technology 1938; Fellow, Physical Soc.; mem. Nat. Acad. of Sciences, Geophysical Union, Physical Soc.; German Physical Soc. Prize 1932, Bowie Medal of Geophysical Union 1959, Fleming Medal 1971. *Publications:* The Physical Foundation of Biology 1958, Atom and Organism 1966, The Chief Abstractions of Biology 1975; numerous works on the physics of the earth. *Address:* 500 West University Parkway, Baltimore, Md. 21210, U.S.A. *Telephone:* (301) 235-5950.

ELSLANDE, Renaat van; Belgian lawyer, university professor and politician; b. 21 Jan. 1916, Boekhoute; m. Ghislaine Van Acker 1945; one s. three d. Professor, Univ. of Louvain; mem. Chamber of Reps. 1949-; Minister, Under-Sec. of State for Cultural Affairs 1960, later Minister for Culture and Educ.; Minister for European Affairs and Flemish Culture 1966-68, for Foreign Affairs and Overseas Devt. Aid 1976-77, for Justice 1977-; Deputy Prime Minister 1978-79; Christian Social Party. *Publications:* Europa's Toekomst 1975, Belgie en de Derde Wereld 1977. *Address:* 39 Kerkstraat, Lot, Belgium. *Telephone:* 02-376-32-39.

ELSTUB, Sir St. John (de Holt), Kt., C.B.E., B.SC., C.ENG., F.I.MECH.E., F.INST.P.; British engineer; b. 16 June 1915, Heywood, Lancs.; s. of Ernest and Mary Gertrude Elstub (née Whitaker); m. Patricia Arnold 1939; two d.; ed. Rugby School and Univ. of Manchester. R.A.F. Pilot and Supt. Rocket Propulsion Dept., Ministry of Supply 1939-47; Asst. Chief Engineer, Productions Dir., ICI (Metals Div.) 1947-57, Man. Dir. 1957-61, Chair. 1961-62; Man. Dir. Imperial Metal Industries Ltd. 1962-74, Chair. 1972-74; Pres. Inst. of Mechanical Engineers 1974-75, British Non-Ferrous Metals Fed. 1972-73; mem. Midland Electricity Bd. 1966-76; mem. Council of Univ. of Aston in Birmingham 1966-72; Dir. British Engine Boiler and Electrical Insurance Co. Ltd. 1970-, Rolls-Royce (1971) Ltd. 1971-, Hill Samuel Group Ltd. 1974-, Tube Investments Ltd. 1974–, Averys Ltd. 1975-; Hon. D.Sc. (Aston), Verulum Medal Metals Soc. *Leisure interests:* garden, travel, motor sport, do-it-yourself. *Address:* Perry House, Hartlebury, Worcestershire, DY10 4HY, England. *Telephone:* 029-96-327.

ELTON, Charles Sutherland, F.R.S.; British zoologist; b. 29 March 1900, Manchester; s. of late Oliver Elton and Letitia Maynard MacColl; m. 1st Rose Montague 1928, no c.; m. 2nd Edith J. Scovell 1937, one s. one d.; ed. Liverpool Coll. and New Coll., Oxford. Ecologist, Oxford Univ. Expedition to Spitsbergen 1921, Merton Coll. Arctic Expedition 1923, Oxford Univ. Arctic Expedition 1924, Oxford Univ. Lapland Expedition 1930; Dir. Bureau of Animal Population, Dept. of Zoological Field Studies, Oxford Univ. 1932-67; Reader in Animal Ecology, Oxford Univ. and Senior Research Fellow, Corpus Christi Coll. 1936-67; Hon. Fellow, Corpus Christi Coll., Oxford 1967-; mem. Nature Conservancy 1949-56; Foreign Hon. mem. American Acad. of Arts and Sciences 1968-; Gold Medal, Linnean Soc. 1967; Darwin Medal, Royal Soc. 1970, Tyler Ecology Award 1976. *Publications:* Animal Ecology 1927, Animal Ecology and Evolution 1930, The Ecology of Animals 1933, Exploring the Animal World 1933, Voles, Mice and Lemmings 1942, The Ecology of Invasions by Animals and Plants 1958, The Pattern of Animal Communities 1966. *Leisure interests:* natural history, reading, gardening. *Address:* 61 Park Town, Oxford, OX2 6SL, England. *Telephone:* Oxford 57644.

ELVIN, Herbert Lionel, M.A.; British educationalist; b. 7 Aug. 1905, Buckhurst Hill, Essex; s. of Herbert Henry Elvin (Pres. T.U.C. 1938) and Mary Jane Elvin, m. Mone Bedortha Dutton 1934; one s.; ed. Trinity Hall, Cambridge, and Yale Univ. Fellow of Trinity Hall, Cambridge, and mem. of Faculty of English, Cambridge, 1930-45; temporary civil servant, Air Ministry 1940-42, Ministry of Information (American Div.) 1942-45; Principal, Ruskin Coll., mem. Faculty of English, Oxford 1945-50; mem. Univ. Grants Cttee. 1946-50; Dir. Dept. of Education, UNESCO 1950-56; Prof. Education (Tropical Areas) London Univ., Inst. of Education 1956-58; Dir. Inst. of Education, London Univ. 1958-73; Chair. Commonwealth Educ. Liaison Cttee. 1965-73; mem. Govt. of India Educ. Comm. 1965-66; Emer. Prof. of Educ. (London). *Publications:* Men of America 1941, An Introduction to the Study of Poetry 1949, Education and Contemporary Society 1965, The Place of Commonsense in Educational Thought 1977. *Leisure interests:* reading, golf. *Address:* 4 Bulstrode Gardens, Cambridge, England. *Telephone:* 58309.

ELVIN, Violetta (Violetta Prokhorova); British ballerina; b. 3 Nov. 1925, Moscow; d. of Vassili Prokhorov and Irena T. Grimusinskaya; m. Fernando Savarese 1959; one s.; ed. Bolshoi Theatre School, Moscow. Mem. Bolshoi Theatre Ballet 1942, evacuated to Tashkent 1943; ballerina, Tashkent State Theatre; rejoined Bolshoi Theatre as soloist 1944; joined Sadler's Wells Ballet, Royal Opera House, Covent Garden (now the Royal Ballet) as guest soloist 1946, and later as regular mem., prima ballerina 1951-56; guest artist, Stanislavsky Theatre, Moscow 1944, Sadler's Wells Theatre 1947; guest prima ballerina, La Scala 1952-53; guest artist, Cannes 1954, Copenhagen 1954, Teatro Municipal, Rio de Janeiro 1955, Festival Hall 1955; guest prima ballerina, Royal Opera House, Stockholm 1956; Royal Opera House, Covent Garden 1956 (concluded her stage career); film appearances: The Queen of Spades, Twice Upon ■ Time, Melba. *Leisure interests:* reading, walking, swimming. *Address:* Marina di Equa, Seiano, Bay of Naples, Italy. *Telephone:* 081-8798520.

ELWORTHY, Baron (Life Peer), cr. 1972; **Marshal of the Royal Air Force (Samuel) Charles Elworthy,** K.G., G.C.B., C.B.E., D.S.O., M.V.O., D.F.C., A.F.C.; British air force officer and businessman; b. 23 March 1911, Timaru, New Zealand; s. of late Percy Elworthy; m. Audrey Hutchinson 1936; three s. one d.; ed. Marlborough Coll. and Trinity Coll., Cambridge. Reserve of Air Force Officers 1933; Called to Bar (Lincoln's Inn) 1935 (Bencher 1970); R.A.F. 1936-, Bomber Command 1939-45, Commandant R.A.F. Staff Coll. 1957-59; Deputy Chief of Air Staff 1959-60; C.-in-C. Middle East 1960-63; Chief of Air Staff Sept. 1963-67; Chief of Defence Staff 1967-71; Chair. Board of Management, Royal Comm. for Exhbn. of 1851; Dir. Nat. Bank of New Zealand 1971-, Plessey Co. 1971-78, British Petroleum (N.Z.) Ltd. 1978-; Chair. Scientific Control Systems (Holdings) 1972-78; mem. N.Z. Board of A.M.P. Soc. 1978-; Constable and Gov. of Windsor Castle 1971-78; H.M. Lieut. for Greater London 1973-78. *Leisure interests:* travel, fishing. *Address:* Gordons Valley, R.D.2, Timaru, New Zealand.

ELWYN-JONES, Baron (Life Peer) cr. 1974, of Llanelli in the County of Carmarthen and of Newham in Greater London; **(Frederick) Elwyn Elwyn-Jones,** Kt., P.C., C.H., M.A., Q.C.; British lawyer and politician; b. 24 Oct. 1909, Llanelli; s. of Frederick and Elizabeth Jones; m. Pearl Binder 1937; one s. two d.; ed. Llanelli Grammar School, Univ. Coll. of Wales, Aberystwyth, and Gonville and Caius Coll., Cambridge; called to Bar, Gray's Inn 1935; Deputy Judge Advocate 1943-45; mem. British War Crimes Exec. Nuremberg 1945; M.P. 1945-74; Q.C. 1953; Q.C. Northern Ireland 1958; Recorder of Merthyr Tydfil 1949-53, of Swansea 1953-60, of Cardiff 1960-64, of Kingston-upon-Thames 1968-74; Parl. Private Sec. to Attorney-Gen. 1946-51; Attorney-Gen. 1964-70; Lord Chancellor 1974-79; Pres. Univ. Coll., Cardiff; Fellow of King's Coll., London; mem. Bar Council 1956-59, Inter-Departmental Cttee. on Court of Criminal Appeal 1964; Chair. of Soc. of Labour Lawyers 1957-60; Treas. of Justice, British Section, Int. Comm. of Jurists 1959-64, 1970-74; U.K. Observer Malta Referendum 1964; Bencher Gray's Inn 1960; Major T.A.; Hon. Freeman of Llanelli; Hon. Fellow Gonville and Caius Coll., Cambridge; Hon. LL.D. (Wales, Columbia, Ottawa, Warsaw); Labour. *Publications:* Hitler's Drive to the East

1937, The Battle for Peace 1938, The Attack from Within 1939. *Leisure interests:* travelling, walking. *Address:* House of Lords, London, SW1A 0PW, England.

ELYTIS, Odysseus; Greek poet and essayist; b. 1911, Heracleion, Crete; ed. Univs. of Athens and Paris; contributed first to review Nea Grammata 1935; became expounder of surrealism; art critic for newspaper Kathimerini 1946-48; Broadcasting and Programme Dir. Hellenic Nat. Broadcasting Inst. 1945-46 and 1954-54; represented Greece at Rencontres Int. de Genève 1948 and Congrès de l'Association des Critiques d'Art 1949; Councillor of the Arts Theatre; Councillor of the Nat. Theatre 1974. *Publications:* Orientations 1936, Clepsydras of the Unknown 1937, Sporades 1938, Sun the First 1943, Heroic and Funeral Song for the Lost Sub-lieutenant in Albania 1945, Six and One, Regrets for Heavens 1960, Axion Esti 1959, The Light-Tree and the Fourteenth Beauty 1971, The Monogram 1971, The Painter Theophilos 1973, The Siblings 1974. *Leisure interests:* trying home painting and collage. *Address:* 23 Skoufa Street, Athens, Greece. *Telephone:* 3626458.

EMANUEL, Nikolay Markovich; Soviet physical chemist; b. 1 Oct. 1915, Tim, Kursk Region; ed. Leningrad Industrial (Polytechnical) Inst. Scientific worker at Inst. of Chemical Physics, U.S.S.R. Acad. of Sciences 1938-; Asst. Prof. Moscow Univ. 1944-50, Prof. 1950-; mem. C.P.S.U. 1948-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-, Head, Dept. of Kinetics of Chemical and Biological Processes at Inst. of Chemical Physics, U.S.S.R. Acad. of Sciences 1960-, Academician-Sec. Dept. of General and Technical Chemistry 1975-; Chair. Nat. Cttee. of Soviet Chemists 1972-; Editor-in-Chief of Journal Uspekhi Khimii 1973-; Foreign mem. Royal Swedish Acad. of Sciences 1974, Acad. of Sciences of German Democratic Republic 1975; mem. New York Acad. of Sciences 1974-, Leopoldina 1977-; Dr. h.c. Szeged Univ. (Hungary) 1974, Uppsala Univ. (Sweden) 1977; Lenin Prize for research into properties and particular features of chain reactions 1958; Order of Red Banner of Labour 1965 and 1971, Order of Lenin 1975, Order of Peace and Friendship (Hungary) 1975, and other decorations, *Publications:* Intermediate products of complex gaseous reactions 1946, The inhibition of fat oxidation processes 1967, Liquid Phase Oxidation of Hydrocarbons 1967, Clinical oncology—a quantitative approach 1972, Chemical Kinetics, Homogeneous Reactions 1962, 1969, 1974 (English edn. 1974), Kinetics of Experimental Tumor Processes 1977. *Address:* U.S.S.R. Academy of Sciences V-71 Leninsky Prospekt 14, Moscow; Institute of Chemical Physics, Academy of Sciences of U.S.S.R., Vorob'evskoe shosse 2b, Moscow 117334, U.S.S.R.

EMANUELS, Severinus D.; Netherlands lawyer and politician; b. 27 Feb. 1910, Rotterdam; m. Helena Geertruida Hitzel; one s.; ed. Univs. of Leyden and Utrecht, Ecole de Droit, Paris. District Attorney's Office, Magelang, Indonesia 1937-38; Acting Judge, Court of Justice, Makassar 1938-42; Royal Netherlands Army Service 1942-45; Chief, Bureaux of Law, Dean of Law School, Celebes 1946-48; Sec.-Gen. Dept. of Justice, Celebes 1948-51; District Attorney, Paramaribo 1951-52; Minister of Finance, Suriname 1952-55; Counsellor, Netherlands Embassy, U.S.A. 1956-58; Prime Minister of Suriname, Minister of General Affairs and Interior Affairs 1958-63; Minister Plenipotentiary at The Hague 1963-64; Counsellor for Press and Cultural Affairs, Netherlands Embassy in Mexico 1965-68; Netherlands Amb. to Trinidad and Tobago, Barbados and Guyana 1968-76. *Leisure interests:* home movies, reading, golf. *Address:* c/o Ministry of Foreign Affairs, Plein 23, The Hague, Netherlands.

EMELEUS, Harry, D.SC., C.B.E., F.R.S.; British professor of chemistry; b. 22 June 1903, London; s. of Karl H. and Ellen Emeleus; m. Mary C. Horton 1931; two s. two d.; ed. Imperial Coll., London, Technische Hochschule, Karlsruhe and Princeton Univ. Mem. staff, Imperial Coll., London 1931-45; Prof. of Inorganic Chem., Cambridge Univ. 1945-70, now Prof. Emer.; Davey Medal, Royal Soc., Lavoisier Medal, French Chem. Soc., Stock Medal, German Chem. Soc. *Publication:* Modern Aspects of Inorganic Chemistry (with J. S. Anderson) 1938. *Leisure interests:* fishing, gardening *Address:* 149 Shelford Road, Trumpington, Cambridge, England. *Telephone:* Trumpington 2374.

EMENEAU, Murray Barnson, M.A., PH.D.; American professor; b. 28 Feb. 1904, Lunenburg, Nova Scotia, Canada; s. of Archibald and Ada Emeneau; m. Katharine Fitch Venter 1940; two stepdaughters; ed. Dalhousie, Oxford and Yale Univs. Instructor in Latin, Yale Univ. 1926-31; Fellowships, Yale Univ. and American Council of Learned Socs. 1931-40; research in India 1935-38; Asst. Prof. of Sanskrit and Gen. Linguistics, Univ. of Calif., Berkeley 1940-43, Assoc. Prof. 1943-46, Prof. 1946-71, Prof. Emer. 1971-, Faculty Research Lecturer 1955-56, Chair. Dept. of Linguistics 1953-58, Chair. Dept. of Classics 1959-62; Guggenheim Fellowship 1949, 1956-57, 1958; Vice-Pres. Linguistic Soc. of America 1949, Pres. 1950; Assoc. Editor American Oriental Soc. 1940-47, Editor 1947-52, Pres. 1954-55, Western Branch 1964-65; Hermann Collitz Prof. of Indo-European Comparative Linguistics, Indiana Univ. 1953; mem. American Philosophical Soc. 1952; Hon. mem. Nat. Inst. of Humanistic Sciences, Vietnam 1957, Linguistic Soc. of India 1964, Linguistic Research Group of Pakistan 1971; Hon. Fellow Royal Asiatic Soc. 1969; mem. American Acad. of Arts and Sciences 1970; Vice-Pres. Int. Assen. for Tamil Research 1966; Presented with Studies in Indian Linguistics by Centres of Advanced Study in Linguistics, Deccan Coll. and Annamalai Univ., and Linguistic Soc. of India 1968; Lucius Wilbur Cross Medal Yale Graduate School Assen. 1969; Hon. L.H.D. (Chicago) 1968, Hon. LL.D. (Dalhousie) 1970; Berkeley Citation 1971. *Publications:* Jambhaladatta's Version of the Vetālapañcavinšati 1934, A Union List of Printed Indic Texts and Translations in American Libraries 1935, Kota Texts 1944-46, Studies in Vietnamese (Annamese) Grammar 1951, Kolami, a Dravidian Language 1955; Vedic Variants Vol. III (with M. Bloomfield & F. Edgerton) 1934; A Dravidian Etymological Dictionary (with T. Burrow) 1961, Dravidian Borrowings from Indo-Aryan (with T. Burrow) 1962, Brahui and Dravidian Grammar 1962, Kālidāsa's Sakuntalā translated from the Bengali Recension 1962, Dravidian Linguistics, Ethnology and Folktales (collected papers) 1967, A Dravidian Etymological Dictionary: Supplement (with T. Burrow) 1968, Toda Songs 1971, Ritual Structure and Language Structure of the Todas 1974. *Leisure interests:* ballet, opera, travel. *Address:* Department of Linguistics, University of California, Berkeley, Calif. 94720 (Office); 909 San Benito Road, Berkeley, Calif. 94707, U.S.A. (Home).

EMERSON, Ralph, PH.D.; American professor of botany; b. 19 April 1912, New York City; s. of Haven and Grace Parrish Emerson; m. Enid Merle Budelman 1942; one s. one d.; ed. Fieldston High School, N.Y.C., Harvard Coll. and Harvard Univ. Nat. Research Council Fellow in Botany, Cambridge 1937-39; Research Fellow in Biology, Harvard 1939-40; Instructor in Botany, Univ. of Calif. at Berkley 1940-44, Asst. Prof. 1944-48, Assoc. Prof. 1948-53, Prof. 1953-; Chair. Dept. of Botany 1967-71; Guggenheim Fellow, Harvard 1948-49, Costa Rica 1956-57; mem. Nat. Acad. of Sciences, Mycological Soc. of America, Botanical Soc. of America, British Mycological Soc., American Inst. of Biological Sciences, Assen. of Tropical Biology, Calif. Acad. of Sciences, etc.; Fellow, American Acad. of Arts and Sciences, A.A.A.S. *Publications:* articles in learned journals. *Leisure interests:* sailing, photography, gardening. *Address:* Department of Botany, University of California, Berkeley, Calif. 94720 (Office); 454 Beloit Avenue, Berkeley, Calif. 94708, U.S.A. (Home).
[Died 12 March 1979].

EMERY, Kenneth O., PH.D.; American oceanographer; b. 6 June 1914, Saskatchewan, Canada; s. of Clifford A. and Agnes B. Emery; m. Caroline Alexander 1941; two d.; ed. N. Texas Agricultural Coll., Arlington, Univ. of Illinois and Scripps Inst. of Oceanography. Assoc. Geologist, Ill. State Geological Survey 1941-43; Assoc. Marine Geologist, Univ. of Calif. Div. of War Research 1943-45; Asst., Assoc. and Prof. of Geology, Univ. of S. Calif. 1945-62; Geologist, U.S. Geological Survey (summer only) 1946-60; Senior Scientist, Woods Hole Oceanographic Inst. 1962-, Dean of Educ. 1967, Henry Bryant Bigelow Chair., Oceanography 1975; Guggenheim Fellowship 1959; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Assen. of Petroleum Geologists, Geological Soc. of America, Royal Swedish Acad. of Sciences; Shepard Prize in Marine Geology 1969, Médaille Commémorative du Prince Albert Ier de Monaco, Compass Distinguished Achievement Award 1974, A.A.A.S.—Rosenstiel Award in Oceanography 1975, Illini Achievement Award (Univ. of Ill.) 1977. *Publications:* Bikini and adjacent atolls 1954, The Sea off Southern California 1960, The Dead Sea 1967, Oyster Pond 1970, The Western North Atlantic Ocean (with Elazar Uchupi) 1972. *Leisure interest:* stock market. *Address:* Woods Hole Oceanographic Institution, Woods Hole, Mass. 02543, U.S.A. *Telephone:* (617) 548-1400 Extension 579.

EMILIO (*see* Pucci di Barsento, Marchese Emilio).

EMMANUEL, Pierre; French writer; b. 3 May 1916, Gan (Pyrénées-Atlantiques); s. of Emile Mathieu and Maria Juge-Boulogne; m. 1st Jeanne Crépy 1938, one d.; m. 2nd Janine Loo 1952, one d. Dir. of the English Service 1945-47, North-American Service 1947-59, Radiodiffusion Française; Visiting Prof. Harvard, Johns Hopkins, Brandeis, Buffalo, Queen's Univs.; mem. Acad. Française 1968-; Pres. Int. PEN 1969-71; Pres. French PEN 1972-76; Chair. Comm. pour les Affaires Culturelles du VIe Plan, Conseil de Développement Culturel 1971-73, Comm. pur la Réforme de l'Enseignement du Français; Pres. Inst. Nat. de l'audio-visuel, Fondation d'Hautvillers; Administrator, Cité Internationale des

Arts; mem. Comm. Supérieure des Archives de France, Conseil d'Administration de Festival d'Automne, Haut Conseil de l'Audiovisuel; Officier de la Légion d'honneur, Grand Officer de l'Ordre national du Mérite, Commdr. des Arts et Lettres, Commdr. of Yugoslav Flag; Grand Prix de Poésie de l'Académie Française; Dr. h.c. (Oxford, Neuchâtel, Montreal and Univ. of Pa.). *Publications:* Poetry: Tombeau d'Orphée 1941, Combats avec tes defenseurs 1942, Sodome 1944, Le Poète fou 1944, Babel 1951, Visage nuage 1956, Versant de l'âge 1958, Evangéliaire 1961, La Nouvelle Naissance 1963, Ligne de faîte 1968, Jacob 1970, Sophia 1973; novel: Car enfin je vous aime 1949; autobiography: Qui est cet homme 1948, L'ouvrier de l'onzième heure 1954; essays: Le goût de l'un 1963, La face humaine 1965, Baudelaire devant Dieu 1967, Le monde est intérieur 1967, Autobiographies 1970, Choses dites 1970, Pour une politique de la culture 1971, La révolution parallèle 1975, La vie terrestre 1976, Tu 1977, Una 1978. *Address:* 61 rue de Varenne, Paris 75007, France. *Telephone:* 551-91-06.

EMMEL, Egon, DR. RER. POL.; German diplomatist; b. 29 May 1914, Hamburg; m. Brigitte Voss 1950; two s. one d. ed. Wilhelm Gymnasium, Hamburg, Univ. of Hamburg. Military service 1939-45; Section Chief of Trade Policy Dept., Ministry of Agriculture 1950-55, Federal Foreign Office 1950-61; Deputy Rep. at Int. Orgs., Geneva 1961-65; Amb. charged with Trade Negotiations, Federal Foreign Office 1965-70; Amb. and Head of Permanent Mission of the Fed. Repub. of Germany in Warsaw 1970-72; Amb. and Head of the Perm. Mission to the OECD, Paris 1973-. *Address:* 5 rue Leonard De Vinci, 75116 Paris, France. *Telephone:* 501 7388.

EMMET, Dorothy Mary, M.A., D.LITT.; British university professor; b. 29 Sept. 1904, London; d. of late Rev. Cyril W. Emmet and late Gertrude Julia (née Weir); ed. Lady Margaret Hall, Univ. of Oxford; adult education work Maesyrhaf Settlement 1927-28, 1931-32; Commonwealth Fellowship in U.S. 1928-30; Research Fellow, Somerville Coll., Oxford 1930-31; Lecturer in Philosophy, King's Coll., Newcastle-on-Tyne 1932-38; Lecturer in Philosphy of Religion, Univ. of Manchester 1938-45; Reader in Philosophy 1945-46; Sir Samuel Hall Prof. of Philosophy, Univ. of Manchester 1946-66, Emer. Prof. 1966-; Hon. Fellow Lady Margaret Hall, Oxford; Fellow Lucy Cavendish Coll., Cambridge; Hon. D.Litt. (Glasgow, Leicester). *Publications:* Whitehead's Philosophy of Organism 1932, Philosophy and Faith 1936, The Nature of Metaphysical Thinking 1945, Function, Purpose and Powers 1958, Rules, Roles and Relations 1966; Editor (with A. MacIntyre) Sociological Theory and Philosphical Analysis 1970. *Leisure interests:* walking, gardening, reading. *Address:* 11 Millington Road, Cambridge, England. *Telephone:* Cambridge 50822.

EMMETT, Paul H., PH.D.; American chemist; b. 22 Sept. 1900, Portland, Ore.; s. of John and Vina Emmett; m. 1st Mrs. Leila Jones 1930; m. 2nd Mrs. Claire Crocker 1972; m. 3rd Mrs Pauline Dunbar 1976; ed. Washington High School, Portland, Oregon State Coll. and Calif. Inst. of Technology. Instructor, Oregon State Coll. 1926-27; Asst. Chemist to Sr. Chemist, Fixed Nitrogen Research Lab., U.S. Dept. of Agriculture 1926-37; Prof. of Chemical Engineering, Johns Hopkins Univ. 1937-44; Manhattan Project, Columbia Univ. 1943-44; Multiple Petroleum Fellowship, Mellon Inst. of Industrial Research 1944-55; W. R. Grace Prof. of Chem., Johns Hopkins Univ. 1955-70; Visiting Prof., Portland State Univ. 1971; mem. Nat. Acad. of Sciences; Pittsburgh Award, American Chem. Soc. 1953, Kendall Award 1958, Consejo Superior, Madrid 1964; Dr. h.c. (Lyons and Hokkaido). *Publications:* Catalysis Vols. I-VII (Editor) 1954-61; about 150 scientific articles in technical journals. *Leisure interests:* fishing, golf. *Address:* 23 Da Vinci, Lake Oswego, Ore. 97034, U.S.A.

EMMINGER, Otmar; DR.OEC.PUBL.; German banker; b. 2 March 1911, Augsburg; m. two s.; ed. Berlin, Munich, Edinburgh and London Univs. Mem. and Div. Chief, German Inst. for Business Research 1935-39; at Bavarian Ministry of Economic Affairs 1947-49; mem. German del to O.E.E.C. Paris 1949-50; Dir. Research and Statistics Dept. Bank Deutscher Länder 1951-53; mem. Board of Govs. Bank Deutscher Länder (now Deutsche Bundesbank) 1953–, mem. Board of Dirs. Deutsche Bundesbank 1957-69, Deputy Gov. and Vice-Chair. Board of Dirs. 1970-77, Chair. Board of Dirs. and Board of Govs. 1977-; Exec. Dir. Int. Monetary Fund 1953-59; Vice-Pres. and Temp. Pres. EEC Monetary Cttee. 1958-76; Chair. of Deputies of "Group of Ten" (important mems. of Int. Monetary Fund) 1964-67; German Rep. on Econ. Policy Cttee. of OECD; Chair. Working Party III of OECD, Paris 1969-77; Gov. of Int. Monetary Fund for Fed. Repub. of Germany 1977-; mem. Board of Bank for Int. Settlements 1977-. *Publications:* Die englischen Währungsexperimente der Nachkriegszeit 1934, Die Bayerische Industrie 1947, Deutschlands Stellung in der Weltwirtschaft 1953, Währungspolitik im Wandel der Zeit 1966, Zwischenbilanz der DM-Aufwertung 1970, Inflation and the International Monetary System 1973. *Address:* Hasselhorstweg 36, Frankfurt/Main, 10 Federal Republic of Germany. *Telephone:* 1581 (office); 653476 (Home).

EMMONS, Howard Wilson, M.E., M.S.; American professor of mechanical engineering; b. 30 Aug. 1912, Morristown, N.J.; s. of Peter Emmons and Margaret Lang Emmons; m. Dorothy Allen 1937; two s. one d.; ed. Stevens Inst. of Technology and Harvard Univ. Research Eng., Westinghouse Electric and Manufacturing Co. 1938-39; Prof., Univ. of Pa. 1939-40; Prof., Harvard Univ. 1940-; Chair. Fire Research Cttee., Nat. Acad. of Sciences 1968-70, *ad hoc* Fire Panel, Nat. Bureau of Standards 1971-75; mem. Nat. Acad. of Sciences, Nat. Acad. of Engineering; Hon. mem. American Soc. of Mechanical Eng.; Hon. Dr. Eng. (Stevens Inst. of Technology); Gold Medal Int. Combustion Symposium; Centenary Award Stevens Inst. of Technology; Timoshenko Medal ASME. *Publications:* numerous articles in scientific journals. *Leisure interests:* tennis, town government. *Address:* Department of Engineering and Applied Physics, Pierce Hall 308, Harvard University, Cambridge, Mass. 02138 (Office); 233 Concord Road, Sudbury, Mass. 01776, U.S.A. (Home). *Telephone:* (617) 495-2847 (Office); (617) 443-6623 (Home).

EMPSON, Sir William, Kt. M.A.; British literary critic and poet; b. 27 Sept. 1906, Yokefleet Hall, near Goole, Yorks.; s. of Arthur Reginald Empson and Laura Micklethwait; m. Hester Henrietta Crouse 1941; two s.; ed. Winchester Coll. and Magdalene Coll., Cambridge. Prof. of English Literature at Bunrika Daigaku Tokyo 1931-34; Prof. of English Literature, Peking Nat. Univ., then part of Combined South-Western Univs. 1937-39, and, after its return, at Peking 1947-52; Chinese Editor, BBC 1941-47; Prof. of English Literature, Sheffield Univ. 1951-71, Prof. Emer. 1971-, Hon. D.Sc. (Cambridge) 1977. *Publications:* Seven Types of Ambiguity 1933, 1962, Some Versions of Pastoral 1935, Poems 1935, The Gathering Storm (verse) 1940, The Structure of Complex Words 1951, Collected Poems 1955, Milton's God 1961, Editor (with D. Pirie) Selected Poems of Coleridge 1972. *Address:* Studio House, 1 Hampstead Hill Gardens, London, N.W.3, England

ENAHORO, Chief Anthony; Nigerian politician; b. 22 July 1923, Uromi Ishan Division, Mid-Western State; s. of late Chief Okotako Enahoro; m. Helen Ediae 1954; four s. one d.; ed. Govt. Schools, Uromi and Owo and King's Coll., Lagos. Journalist 1942-50; Editor Southern Nigeria Defender 1944-46, Daily Comet 1946-49, concurrently Assoc. Editor West African Pilot; Editor-in-Chief Morning Star 1950; foundation mem. Action Group, Sec. and Chair. of Ishan Div. Council; mem. Western House of Assembly and Fed. House of Reps. 1951, later Minister of Home Affairs (Western Region); Opposition spokesman on Foreign Affairs and Legislative Affairs 1959-63; moved motion for self-government and attended all constitutional talks preceding independence 1960; detained during Emergency period in Western Nigeria 1962, fled to Britain 1963; extradited from Britain and imprisoned in Nigeria for treason; released by Mil. Govt. 1966; Leader of Mid-West del. to *ad hoc* Constitutional Conf. and mem. *ad hoc* Constitutional Cttee. 1966; Fed. Commr. for Information and Labour June 1967-75; Fed. Commr. with Special Duties Jan.-July 1975; Hon. D.Sc. (Benin) 1972; Pres. World Festival of Negro Arts and Culture 1972-75. *Publication:* Fugitive Offender (autobiography). *Leisure interests:* golf, current affairs. *Address:* c/o Federal Executive Council, Lagos, Nigeria.

ENCKELL, (Carl Fredrik) Ralph (Alexander), M.A.; Finnish diplomatist; b. 13 May 1913, Helsinki; s. of Carl Enckell and Lucy Ponsonby-Lyons; m. Laura Virkkunen, five s. two d. Second Secretary, Finnish Legation, Stockholm 1944-45; First Sec., Paris 1945-50, Moscow 1950-55; Head, Political Dept., Foreign Office, Helsinki 1955-59; Permanent Rep. to UN, New York 1959-65, Amb. to Sweden 1965-69; Amb. to OECD 1969-76; Roving Amb. for the Conf. on Security and Co-operation in Europe 1970-72; Amb. to France 1972-76, to Poland 1976-. *Leisure interest:* history. *Address:* Finnish Embassy, Chopina 4/8, Warsaw, Poland.

ENDACOTT, Paul; American petroleum executive (retd.); b. 13 July 1902, Lawrence, Kansas; s. of Frank Charles Endacott and Rebecca Lucinda Herning; m. Lucille Easter 1930; two s.; ed. Kansas Univ.; joined Phillips Petroleum Co. as engineer 1923, worked in Philgas Div., Detroit 1927-34, Dir. Sales Research, Bartlesville 1934-38, Asst. to Exec. Vice-Pres. 1938-43 also Vice-Chair. Operating Cttee. (later Chair.), Vice-Pres. 1943-49, and Dir., mem. Exec. Cttee. 1943-, Exec. Vice-Pres. and Asst. to Pres. 1949-51, Pres. 1951-62, Vice-Chair. 1962-67; Hon. Dir. American Petroleum Inst.; and official of many civic and charitable orgs. *Address:* 320 Delaware Avenue, Bartlesville, Okla. 74003 (Office); 916 Cherokee Avenue, Bartlesville, Okla. 74003, U.S.A. (Home). *Telephone:* 336-5766 (Office); 336-1620 (Home).

ENDELEY, E.M.L., O.B.E.; Nigerian medical doctor and politician; b. 10 April 1916, Buea (then in Nigeria); s. of late Chief Mathias Liffafe Endeley and of Mariana Mojoko Liombe; m. 1st Ethel Mina Green (divorced 1961), 2nd Fanny Ebenye Njoh 1965; nine s. three d.; ed. Buea Govt. School, Catholic Mission, Bojongo, Govt. Coll. Umuahia, Higher Coll., Yaba; qualified as doctor 1942; entered Govt. service 1943; served Lagos, Port Harcourt, etc.; in charge of Cottage Hospital, Buea; trade union leader 1947; formed Cameroons Nat. Fed. (afterwards Kamerun Nat. Congress) 1949; mem. House of Reps. and Council of Ministers 1952-54, Minister without Portfolio, Minister of Labour; First Premier, Southern Cameroons 1955-59; Pres. Bakweri Co-op. Marketing Union 1955; led South Cameroons Del. to Constitutional Conf., London 1957; first Premier of South Cameroons 1958-59; Leader of the Opposition 1959-61; Leader Nat. Convention Party (later Cameroon People's Nat. Convention Party), West Cameroon 1961-66; Asst. Treas. and mem. Cameroon Nat. Union Political Bureau 1966-74, mem. Cen. Cttee. 1975-; mem. Nat. Ass., Yaoundé; Chair. House Cttee. on Production, Town Planning, Agriculture, Stockfarming, Rural and Civil Engineering. *Leisure interests:* mountaineering, gardening, wild game hunting, farming. *Address:* P.O. Box 5, Buea, Southwest Province, United Republic of Cameroon. *Telephone:* Buea 32-42-26.

ENDERBY, Keppel Earl, Q.C., LL.M.; Australian lawyer and politician; b. 25 June 1926, Dubbo N.S.W.; s. of Alfred Charles and Daisy Kathleen Enderby; m.; two c.; ed. Dubbo High School, Univs. of Sydney and London; practising barrister; Lecturer, Examiner in Commercial Law, Sydney Technical Coll. 1955-62; Senior Lecturer in Law, Australian Nat. Univ. 1963-65; M.P. for A.C.T. 1970-74, for Canberra 1974-75; Minister for A.C.T. and Northern Territory 1972-74; Minister for Supply and for Secondary Industry 1973-74, for Mfg. Industry 1974-75; Attorney-Gen. Feb.-Nov. 1975, Minister for Customs and Excise Feb.-June 1975; Chair. Privileges Cttee. of House of Representatives. *Publications:* articles in Law Review 1964, Australian Quarterly 1976. *Leisure interests:* reading, farming, flying, golf. *Address:* 2 Phoebe Street, Balmain, Sydney, Australia. *Telephone:* 824227.

ENDERL, Kurt, D.IUR.; Austrian diplomatist; b. 12 April 1913, Budweis; s. of Hugo and Karoline Enderl (née Stegmann); m. Adele Leigh 1967; ed. Univ. of Vienna; war-work, London 1939-46; Third Sec., Austrian Legation, London 1946-47; Vice-Consul, New York 1947-48; Ministry of Foreign Affairs 1948-50; Chargé d'affaires Austrian Legation, New Delhi 1950-53; Ministry of Foreign Affairs 1953-55; Minister, Austrian Legation, Israel 1955-58; Head, Multilateral Dept. Ministry of Foreign Affairs 1958-61, Chef de Protocol 1972-74; Amb. to Poland 1962-67, to Hungary 1967-72, to U.K. 1975-79; several decorations. *Leisure interests:* music, tennis, skiing. *Address:* c/o Ministry of Foreign Affairs, Vienna, Austria.

ENDERS, John Franklin, PH.D.; American bacteriologist; b. 10 Feb. 1897, West Hartford, Conn.; s. of John Ostrom Enders and Harriet Goulden Whitmore; m. 1st Sarah F. Bennett 1927, 2nd Carolyn Keane 1951; one s. one d., one step-son; ed. Yale and Harvard Univs. Asst., Dept. of Bacteriology and Immunology, Harvard Medical School 1929-30, Instructor 1930-32, Faculty Instructor 1932-35, Asst. Prof. 1935-42, Assoc. Prof. 1942-56, Prof. 1956-62, Univ. Prof. (Harvard 1962-67, Emer. 1967-; Chief Research Div., Infectious Diseases, Children's Hospital Medical Center 1947-72; Chief, Virus Research Unit, Div. of Infectious Diseases, C.H.M.C. 1972-; mem. Nat. Acad. of Sciences; Foreign mem. Royal Soc. (U.K.); Foreign mem. Acad. des Sciences, Inst. de France; numerous hon. degrees; Passano Award 1953, Lasker Award 1954, Nobel Prize in Physiology and Medicine 1954, Cameron Prize in Practical Therapeutics 1960, Robert Koch Medal 1963, Presidential Freedom Medal 1963. *Leisure interests:* fishing, gardening, playing the piano. *Address:* 64 Colbourne Crescent, Brookline, Mass. 02146, U.S.A. (Home).

ENDERS, Thomas O., M.A.; American economist; b. 28 Nov. 1931, Hartford, Conn.; m. Gaetana Marchegiano; four c.; ed. Yale, Paris and Harvard Univs.; with Dept. of State 1959-; Research Specialist, Div. of Research and Analysis for Far East 1959-60; Econ. Officer, Stockholm 1960-63; Supervisory Int. Economist, Bureau of European Affairs 1963-66; Special Asst. Office of Under Sec. of State for Political Affairs 1966-68; Deputy Asst. Sec. of State for Int. Monetary Affairs 1968-69; Deputy Chief of Mission, Belgrade 1969-71, Phnom Penh 1971-74; Asst. Sec. of State for Econ. and Business Affairs 1974-75; Amb. to Canada 1975-; Arthur S. Flemming Award 1970. *Address:* American Embassy, 100 Wellington Street, Ottawa, K1P 5T1, Canada.

ENDICOTT, Kenneth Milo, M.D.; American physician; b. 6 June 1916, Canon City, Colo.; s. of James Milo Endicott and Florence Violet Doran Endicott; m. Frances Ann Clarke 1950; one s. two d.; ed. Univ. of Colorado. Intern, U.S. Marine Hospital 1939-40; U.S. Public Health Service 1939-; Medical Dir. 1951; Experimental Pathology, Nat. Insts. of Health 1942-51, Scientific Dir. Div. of Research Grants 1951-55, Chief, Cancer Chemotherapy Nat. Service Center 1955-58, Assoc. Dir. Nat. Insts. of Health 1958-60; Asst. Surgeon General 1960, Dir. Nat. Cancer Inst. 1960-69; Dir. Bureau of Health Manpower Educ. 1969-73; Administrator, Health Resources Admin. 1973-; mem. American Medical Assen., American Assen. of Pathologists and Bacteriologists, American Soc. for Experimental Pathology, American Assen. for Advancement of Science, Soc. for Experimental Biology and Medicine, American Assen. for Cancer Research, Washington Acad. of Sciences. *Address:* Health Resources Administration, DHEW, Rockville, Md. 20852 (Office); 6517 Greentree Road, Bethesda, Md. 20034, U.S.A. (Home).

ENGEL, Albert Edward, M.A., PH.D.; American professor of geology; b. 17 June 1916, St. Louis, Mo.; s. of Louis and Louise Engel; two s.; ed. Univ. of Missouri and Princeton Univ. Geologist, U.S. Geol. Survey 1942-47; Prof. of Geology, Calif. Inst. of Technology 1948-58; Prof. of Geology and Environmental Sciences, Univ. of Calif. at San Diego and Scripps Inst. of Oceanography; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences etc.; Guggenheim Fellow 1953. *Publications:* approximately 150 articles and two books discussing the origin and evolution of the Earth and its life. *Leisure interests:* horticulture, architecture, archaeology, ecology, painting, the environment of the earth, politics. *Address:* Division Geological Research, Scripps Institution of Oceanography, P.O. Box 109, La Jolla, Calif. 92037, U.S.A.

ENGEL, Ir. Antonie Jacobus; Netherlands industrialist; b. 1896, Oosthuizen; s. of Frederik Engel and Marie Antoinette Allan; m. P. C. Goudswaard 1922; three s. one d.; ed. Elementary School, Hillegom, Secondary School, Leiden, Univ. of Delft. State Mines, Limburg; Algemene Kunstzijde Unie N.V. (rayon and synthetic yarns and fibres) 1924-, Mechanical Engineer, Plant Manager, Chief Gen. Engineering Dept., Man. Staple Fibre Plant, Vice-Pres. 1947-54, Pres. 1954-62, Deputy Chair. Supervisory Council 1962-67; Chair. Technical Coll., Arnhem; mem. Royal Inst. of Engineers; Knight in the Order of the Netherlands Lion, Officer Order of Orange-Nassau, Peter Stuyvesant Award (U.S.A.). *Leisure interests:* music, photography, gardening. *Address:* Rozenhagelaan 4, Velp (Gld.), Netherlands. (Home). *Telephone:* 08302-3118.

ENGELHARDT, Vladimir Aleksandrovich; Soviet biochemist; b. 4 Dec. 1894, Moscow; s. of Aleksandr and Vera Engelhardt; m. Militza Liubimova 1927; two d.; ed. Moscow Univ. Public Health Biochemical Inst. 1921-29; Prof. Kazan Univ. 1929-34, Leningrad Univ. 1934-40, Moscow Univ. 1939-59; Head of Laboratory, Inst. of Biochemistry, Moscow 1935-59; Academic Sec. Biological Dept., Acad. of Sciences 1955-59; Dir. Inst. of Molecular Biology, Moscow 1959-; mem. Bureau, Vice-Pres. I.C.S.U. 1955-63; mem. U.S.S.R. Acad. of Sciences; Hon. Foreign Mem. Royal Inst., London, Nat. Acad. of Sciences, U.S.A., American Acad. of Arts and Sciences, Indian Nat. Science Acad., Leopoldina Acad. of Nat. Sciences, German Acad. of Sciences, Berlin; Fellow Royal Soc., Edinburgh; Editor Biochimia 1936-; Hon. D.Sc. (Cambridge, Vienna, Marseille, Berlin); State Prize, Order of Lenin (three times), Hero of Socialist Labour 1969, Order of the Red Banner of Labour, Gold Medals: Lomonossov, Kothenius. *Leisure interests:* mountaineering, photography. *Address:* Institute of Molecular Biology, U.S.S.R. Academy of Sciences, Vavilov Street 32, Moscow B-312, U.S.S.R.

ENGELLAU, Gunnar Ludwig; Swedish civil engineer; b. 11 Nov. 1907; m. Margit Höckert 1933; one s. five d.; ed. Kung. Tekniska Högskolan, Stockholm; with Swedish State Railways, Gothenburg, Örebro, Stockholm 1932-34; Dept. Head, AB Motala Verkstad, Motala 1935-37, Purchase and Sales Man. 1937-39; Head, Technical Sales Dept., Electrolux 1939-43; Man. Dir. Svenska Flygmotor AB, Trollhättan 1943-56; Man. Dir. AB Volvo, Gothenburg and Head, Volvo Corpn. 1956-71; Chair. of Board, AB Volvo 1971-78, Sâfveåns AB, Volvo BM AB, Eskilstuna and AB Volvo Flygmotor, Trollhättan; mem. Board of Dirs. SKF, Skandinaviska Enskilda Banken, AB Electrolux, Rederi AB Transatlantic, Sukab AB, AB Hevea, Gen. Export Assen. of Sweden, Swedish Acad. of Engineering Sciences, Park Avenue Hotel AB. *Address:* AB Volvo, 405 08 Gothenburgh (Office); Dicksonsgat 6, 412 56 Gothenburg, Sweden (Home).

ENGEN, René Léopold Alexis; Belgian civil engineer; b. 13 Dec. 1918, Brussels-Etterbeek; s. of Léopold Engen and Louise Etienne; m. Madeleine Lekeu 1942; one d.; ed. Free Univ. of Brussels. Eng. with ACEC 1942-45; Eng. Verreries de Mariemont 1945, Chief Eng. 1949, Dir. 1950; Dir. Verreries Réunies Val St.

Lambert et Momignies 1954; Man. Verlica-Momignies 1960, Man. Dir. 1961, Admin. Del. 1968; Chair. Cie. Financière Crensot-Loire; Gen. Man. Electrorail 1969-, Schneider 1972- (Vice-Pres. and Gen. Man. 1978-); Dir. Spie-Batignolles, Jeumont-Schneider, Jeumont-Industrie, Cie. Financière de Développement des Entreprises, Creusot-Loire, Arbed, Salem, Banque de l'Union Européenne, Intercom, Gerin, Cofibel, Merlin Guerin, Interrelax, Fondation Industrie Université; mem. Exec. Cttee. Creusot-Loire; Officier Ordre de la Couronne, Ordre de Léopold, Médaille de la Résistance, Médaille Civique (1st Class). *Address:* Schneider, 42 rue d'Anjou, 75008 Paris, France; and Electrorail, 23 avenue de l'Astronomie, 1030 Brussels, Belgium. *Telephone:* 260-36-72 (Paris); 218-61-70 (Brussels).

ENGLAND, Glyn, C.ENG., F.I.E.E., F.I.MECH.E., F.B.I.M., J.P.; British engineer and administrator; m. Tania Reichenbach 1942; two d.; ed. Queen Mary Coll. and London School of Econs., London Univ. Research Asst. 1939-40; war service in R.E.M.E. 1942-47; variety of field work in electricity supply industry 1947-58; Devt. Eng. (Policy), Cen. Electricity Generating Board (CEGB) 1958-66, Chief Operations Eng. 1966-71, Dir.-Gen. of S.-W. Region 1971-73; Chair. of S.-W. Electricity Board 1973-77; Chair. CEGB May 1977-; fmr Labour mem. Hertfordshire County Council, Council of Magistrates' Assn. *Publications:* The Electricity Supply Industry and Economic Growth 1964, Security of Supply in the Design and Operation of the Grid System in England and Wales 1968; and co-author of papers on clean air and conservation of water resources. *Leisure interest:* active enjoyment of the countryside. *Address:* Woodbridge Farm, Ubley, Bristol, BS18 6PX, England. *Telephone:* (0761) 62479.

ENGMAN, Lewis August, A.B., LL.B.; American lawyer and government official; b. 6 Jan. 1936, Grand Rapids, Mich.; s. of H. Sigurd and Florence C. Lewis Engman; m. 2nd Patricia L. Hanahan 1978; three s. by previous marriage; ed. Univ. of Michigan, Univ. of London (Univ. Coll.), London School of Econs. and Harvard Law School. Assoc. Warner, Norcross & Judd, law firm, Grand Rapids 1961-65; Partner 1965-70, 1976-; Dir. of Legis. Affairs, President's Cttee., on Consumer Interests 1970; Gen. Counsel Office of Consumer Affairs 1970-71; Asst. Dir. Domestic Council 1971-73; Chair. Fed. Trade Comm. 1973-75; mem. Council, Admin. Conf. of U.S. 1974-75. *Address:* Warner, Norcross and Judd, 1101 Connecticut Ave., N.W. Washington, D.C. 20036, U.S.A. *Telephone:* (202) 785-1950.

ENGSTROM, Elmer W.; American electronics executive; b. 25 Aug. 1901, Minneapolis, Minn.; s. of Emil and Anna (Nilssen) Engstrom; m. Phoebe Leander 1926; one s.; ed. St. Paul, Minn. and Univ. of Minnesota; joined Radio Engineering Dept., Gen. Electric Co. 1923; G.E.C. radio engineering activities transferred to Radio Corpn. of America (RCA) 1930, Div. Engineer in charge of Photophone 1930, research into television and colour television; Dir. of Gen. Research RCA 1942-43, Dir. of Research of RCA Labs. 1943-45, Vice-Pres. (Research, RCA Labs. Div.) 1945-51, Vice-Pres. (RCA Labs. Div.) 1951-54, Exec. Vice-Pres. (Research and Engineering) 1954-55, Senior Exec. Vice-Pres. RCA 1955-61, Pres. RCA 1961-65, Chief Exec. Officer and Chair. Exec. Cttee. 1966-Dec. 1967, Chair. Exec. Cttee. 1968-71. *Address:* Apartment 31-01, Meadow Lakes, Hightstown, N.J. 08520, U.S.A. *Telephone:* (609) 448-4100, extension 551.

ENNALS, Rt. Hon. David Hedley, P.C., M.P.; British politician; b. 19 Aug. 1922, Walsall; s. of Arthur Ford Ennals and Jessie Ennals; m. Eleanor Caddick 1950 (divorced 1977); three s. one d.; m. Gene Tranoy 1977; ed. St. Mary's Grammar School, Loomis Inst.; war service; Labour Party Overseas Sec. 1957-64; M.P. for Dover 1964-70, for Norwich North 1974-; Minister of State, Dept. of Health and Social Security 1968-70, Foreign and Commonwealth Office 1974-76; Sec. of State for Social Services 1976-79; Labour. *Address:* 8 St. Anne's Close, London N.6, England (Home). *Telephone:* 01-340 6810 (Home).

ENRIGHT, Dennis Joseph, M.A., D.LITT.; British teacher and writer; b. 11 March 1920, Leamington Spa, Warwicks,; s. of George and Grace (née Cleaver) Enright; m. Madeleine Harders 1949; one d.; ed. Leamington Coll., and Downing Coll., Cambridge. Lecturer in English, Farouk I Univ. Alexandria 1947-50; Org. Tutor, Birmingham Univ. Extra-Mural Dept. 1950-53; Visiting Prof. Konan Univ. (Japan) 1953-56; Gastdozent, English Seminar, Berlin Free Univ. 1956-57; British Council Prof. Chulalongkorn Univ. Bangkok 1957-59; Johore Prof. of English, Univ. of Singapore 1960-70; Co-editor Encounter Magazine 1970-73; Editorial adviser, Chatto and Windus 1972-74, Dir. 1974-; contributor to Scrutiny, Essays in Criticism, New York Review of Books, New Statesman, Encounter, Listener. *Publications:* The Laughing Hyena and Other Poems 1953, Academic Year 1955, The World of Dew: Aspects of Living Japan 1956, Bread rather than Blossoms: Poems 1956, The Poetry of Living Japan: An Anthology 1957, The Apothecary's Shop: Essays on Literature 1957, Insufficient Poppy 1960, Some Men are Brothers: Poems 1960, Addictions: Poems 1962, Figures of Speech 1965, The Old Adam (poetry) 1965, Conspirators and Poets: literary criticism 1966, Unlawful Assembly (poetry) 1968, Selected Poems 1969, Memoirs of a Mendicant Professor 1969, Shakespeare and the Students 1970, The Typewriter Revolution and Other Poems 1971, Daughters of Earth (poetry) 1972, Man is an Onion (literary criticism) 1972, The Terrible Shears (poetry) 1973, Rhyme Times Rhyme (children's poems) 1974, A Choice of Milton's Verse 1975, Sad Ires (poetry) 1975, The Joke Shop (children's novel) 1976, Wild Ghost Chase (children's novel) 1978, Paradise Illustrated (poetry) 1978; Editor: Samuel Johnson: The History of Rasselas, Prince of Abyssinia 1976. *Address:* c/o Chatto and Windus Ltd., 40-42 William IV Street, London W.c.2, england.

ENRIQUE Y TARANCÓN, H.E. Cardinal Vicente; Spanish ecclesiastic; b. 14 June 1907, Burriana, Castellón; s. of Manuel E. Urios and Vincenta T. Fandos; ed. Seminario Conciliar Rortosa, Tarragona and Universidad Pontificia Valencia. Admin. Asst. of Vinaroz 1930-33, Archpriest 1938-43; Archpriest, Villarreal 1943-46; Bishop of Solsona 1946-64; Gen. Sec. Spanish Bishopric 1956-64; Archbishop of Ovopie 1964-69; Archbishop of Toledo, Primate of Spain 1969-71; Archbishop of Madrid Dec. 1971-; Cardinal de Tit. de S. Juan Crisóstomo, Monte Sacro 1969-; mem. Sacred Congregations for Bishops, Divine Worship, and Reform of Canon Law; mem. Spanish Acad. 1969. *Publications:* La Renovación Total de la Vida Cristiana 1954, Los Seglares en la Iglesia 1958, Sucesores de los Apóstoles 1960, La Parroquia, Hoy 1961, El Misterio de la Iglesia 1963, Ecumenismo y Pastoral 1964, La Iglesia en el Mundo de Hoy 1965, El Sacerdocio a la Luz del Concilio Vaticano II 1966, La Iglesia del Posconcilio 1967, La Crisis de Fe en el Mundo Actual 1968, Unidad y pluralismo en la Iglesia 1969, Liturgia y lengua del pueblo 1970, El magisterio de Santa Teresa 1970. *Leisure interests:* musical composition, listening to classical music, particularly Bach. *Address:* Palacio Arzobispal, S. Justo 2, Madrid 12, Spain. *Telephone:* 24-14-804.

ENTERS, Angna; American mime artist, painter and sculptor; b. 28 April 1907; ed. privately; presented Composition in Dance Form (later called Theatre of Angna Enters), which combined mime, dance, music, etc., in solo performance, in New York 1924; London debut 1928; Paris debut 1929, rep. U.S.A. in Berlin Arts Festival 1951; 10th London season 1956; presented mime Pagan Greece under auspices New York Metroplitan Museum of Art 1943; Guggenheim Foundation Fellowships for research in Mime and Art in Greece, Egypt 1934-35; Painting: New York debut 1933; various exhibitions Newhouse Galleries, New York; London debut 1934; exhibition Brook Street Galleries 1950; 3rd London exhibition at Foyle Gallery 1956; Sculpture: New York debut 1945; work exhibited in New York Metropolitan Museum of Art and other museums and private collections; composed scores for own play and mimes; play-within-play for Commedia dell'Arte sequence, choreography and dance for Scaramouche (film) 1952; author of Lost Angel (film) 1944, 10th Avenue Angel (film) 46, and You Belong to Me (film) 1948-49; first work in ceramics exhibited 1952; exhibition in New York 1958; 32nd annual Lecture Tour of U.S. and Canada in her one-woman theatre 1960; directed and designed sets and costumes for Yerma 1958; 22nd Broadway season solo theatre 1960; Fellow Center for Advanced Studies, Wesleyan Univ., Middletown, Conn. 1962-. *Publications:* First Person Plural (own illustrations) 1937; Love Possessed Juana (play) 1939; Silly Girl (autobiography) 1944; A Thing of Beauty (novel) 1948; and screenplays; Among the Daughters 1955, Artists's Life (sequel to First Person Plural) 1957; author of article on Pantomime for Encyclopaedia Britannica, adaptor-translator of Edmond Rostand's Chantecler 1960, The Loved and the Unloved 1961; Angna Enters on Mime 1965. *Address:* 35 West 57th Street, New York City, N.Y. 10019, U.S.A.

ENTREMONT, Philippe; French pianist and conductor; b. 7 June 1934, Reims; s. of Jean and Renée (Monchamps) Entremont; m. Andrée Ragot 1955; one s. one d.; ed. Institution Notre-Dame à Reims, Conservatoire National de Musique de Paris; has performed with all major orchestras of world 1953-; Pres. of Acad. Int. de Musique Maurice Ravel, Saint-Jean-de-Luz 1973-; Musical Dir. and Permanent Conductor, Wiener Kammerorchester 1976-; Chevalier de l'Ordre nat. du Mérite, Chevalier, Légion d'honneur; Harriet Cohen Piano Medal 1951, Grand Prix International Concours Marguerite Long-Jacques Thibaud 1953, 4 Grand Prix du Disque Awards, Edison Award 1968; Grammy Award 1972. *Leisure interest:* golf. *Address:* Amara-Chantaco, 64500 Saint-Jean-de-Luz, France.

ENWONU, Benedict Chuka, M.B.E.; Nigerian sculptor; b. 1921; ed. Holy Trinity School, Onitsha, Govt. Colls. Umu-Ahia and Ibadan, Univ. Coll., London; first One-Man Show, Lagos 1942; on the strength of this he was given a special scholarship by Shell-Mex to study in England; rep. UNESCO Exhibition, Paris 1946; first One-Man Exhibition, London 1948, subsequent exhbns. 1950, 1952, 1955; exhbns. U.S. 1950; commissioned to execute statue of H.M. Queen Elizabeth, doors, panels and Speaker's chair, Lagos House of Representatives, and the group The Risen Christ for the Chapel, Univ. Coll., Ibadan; Art Adviser to the Federal Govt. of Nigeria 1968-72; fmr. Prof. of Fine Arts, Univ. of Ife; his works have been purchased by H.M. Queen Elizabeth II, the late Sir Jacob Epstein and others; R. B. Bennett Empire Art Prize 1957.

ENZENSBERGER, Hans Magnus, DR. PHIL.; German poet and writer; b. 11 Nov. 1929, Kaufbeuren; m. Maria Aleksandrovna Makarova; one d.; ed. Univs. of Erlangen, Freiburg im Breisgau, Hamburg and Paris. Third Programme Editor, Stuttgart Radio 1955-57; Lecturer, Hochschule für Gestaltung, Ulm 1956-57; Literary Consultant to Suhrkamp's (publishers), Frankfurt 1960-; mem. "Group 47", Editor Kursbuch (review) 1965-75, Publisher 1970-; Hugo Jacobi Prize 1956, Kritiker Prize 1962, Georg Büchner Prize 1963. *Publications:* Verteidigung der Wölfe (poems) 1957, Landessprache (poems) 1960, Clemens Brentanos Poetik (essay) 1961, Einzelheiten (essays) 1962, Blindenschrift (poems) 1964, Politik und Verbrechen (essays) 1964, Deutschland, Deutschland unter Anderen 1967, Das Verhör von Habana (play) 1970, Freisprüche 1970, Gedichte 1955-1970 (poetry) 1971, Durruti (film) 1971; English edn. of Poems: Poems for People Who don't Read Poems 1968; Der kurze Sommer der Anarchie (novel) 1972, Gespräche mit Marx und Engels 1973, Palaver 1974, Mausoleum (poetry) 1975; Edited Museum der Modernen Poesie 1960, Allerleirauh 1961, Andreas Gryphius Gedichte 1962, Edward Lear's Kompletter Nonsense (translation) 1977, Raids and Reconstructions (essays, English edition), Der Untergang der Titanic (epic poem) 1978. *Address:* c/o Suhrkamp Verlag, Fach 2446, Frankfurt/Main, Federal Republic of Germany.

EPLEY, Marion Jay, Jr., LL.B.; American oil executive; b. 17 June 1907; s. of Marion Jay and Eva (née Quin) Epley; m. 2nd Dorris Glenn Ervine 1934; one s. one d.; ed. Tulane Univ. and Tulane Law School, New Orleans, Louisiana; private law practice, New Orleans 1930-42, 1945-47; U.S. Navy 1942-45, Gen. Attorney, Texaco Inc. Louisiana and New York 1948-57, Asst. to Chair. of Board of Dirs. 1958-60, Vice-Pres. 1958-60, Senior Vice-Pres. 1960-61, Exec. Vice-Pres. 1961-65, Pres. 1965-70, Chair. 1970-71; Pres. Mardor Financial Corpn. 1971-. *Address:* The Everglades Club, Palm Beach, Fla. 33480, U.S.A. *Telephone:* (305) 655-2345.

ERALP, Orhan, B.A., LL.B., PH.D.; Turkish diplomatist; b. 28 June. 1915, Izmir; m. Jalé Mizanoglu 1956; two s.; ed. Robert Coll., Istanbul, Univ. Coll., London, and London School of Economics. Ministry of Foreign Affairs 1939-; Sec. Washington 1942-48; Adviser to Turkish Del., UN Conciliation Comm. for Palestine 1949-51; Perm. Rep. to European Office of UN, Geneva 1951; Counsellor, London 1952; Dir.-Gen. Second Dept., Ministry of Foreign Affairs 1952-56; Amb. to Sweden 1957-59, to Yugoslavia 1959-64; Perm. Rep. of Turkey to UN, New York 1964-69; Sec.-Gen. Ministry of Foreign Affairs 1969-72; Perm. Rep. of Turkey to NATO 1972-76; Amb. to France 1976-78; Perm. Rep. of Turkey to UN 1978-. *Leisure interests:* golf, tennis, bridge. *Address:* c/o Permanent Mission of Turkey to the United Nations, 821 U.N. Plaza, 11th Floor, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 949-0152.

ERBAKAN, Necmettin; Turkish politician; b. 1926, Sinop; ed. Inst. of Mechanics, Technical Univ. of Istanbul and Technische Universität, Aachen, Germany. Asst. Lecturer, Inst. of Mechanics, Technical Univ. of Istanbul 1948-51; Engineer, Firma Deutz 1951-54; Prof. Technical Univ. of Istanbul 1954-66; Chair. Industrial Dept., Turkish Assen. of Chambers of Commerce 1966-68, Chair. of Assen. 1968; mem. Nat. Assembly 1969-; f. Nat. Order Party 1970 (disbanded 1971); Chair. Nat. Salvation Party Oct. 1973-; Deputy Prime Minister and Minister of State Jan.-Sept. 1974; Deputy Prime Minister 1975-77, July-Dec. 1977. *Address:* National Salvation Party, Ankara, Turkey.

ERBAN, Evžen; Czechoslovak politician; b. 18 June 1912, Vsetin; s. of Hugo Erban and Marie (née Splíchalová); m. Zora Dosko čilová 1966; ed. Charles Univ., Prague. Trade Union Sec. 1936-45; Gen. Sec. Central Council of Trade Unions 1945-50; Minister of Labour and Social Welfare 1948-51; Chair. State Social Security Office 1952-62; Chair. Board of State Material Reserves 1963-68; Gen. Sec. Central Cttee. Nat. Front 1968; Chair. Cen. Cttee. of Nat. Front 1968-71; mem. Cen. Cttee. and Presidium of Cen. Cttee. (Deputy Chair.) Czechoslovak Social Dem. Party 1945-48; mem. Cen. Cttee. and Presidium of Cen. Cttee. of CP of Czechoslovakia 1948-51, 1968-71; mem. Exec. Cttee. of Presidium of Cen. Cttee., CP of Czechoslovakia 1968-69; Deputy to Nat. Assembly 1945-52; Deputy to Czech Nat. Council 1968; Deputy to House of Nations 1969-, and mem. Presidium of Fed. Assembly 1969-; Chair. Czech Nat. Council 1969-; mem. Bureau of Cen. Cttee. CP of Czechoslovakia for directing Party work in the Czech lands 1970-71; mem. Plenum State Planning Comm. 1966-68; mem. Presidium of Int. Assen. of Social Security 1957-62; mem. Presidium of Int. Assen. of Social Security 1957-62; mem. Exec. Board, Int. Labour Office, Geneva 1958-61; Chair. Czechoslovak Soc. for Int. Relations 1975–; numerous decorations including Order of the Repub. 1962, Klement Gottwald Order 1968, Hon. award of 3rd Guard Tank Brigade, U.S.S.R., Order of Victorious February 1973. *Leisure interests:* culture, sport, hunting. *Address:* Czech National Council, Prague; Sněmovní 4, Malá Strana, Prague 1, Czechoslovakia. *Telephone;* 2105.

ERDÉLYI, Miklós; Hungarian conductor; b. 9 Feb. 1928, Budapest; s. of Ernő Erdélyi and Ida Friedrich; m. Kata Miklós 1952; ed. Music Acad. of Budapest under János Ferencsik and Rezső Kokai; started career as conductor in 1947; helped found Hungarian Radio chorus 1949, acted as their second conductor 1951; joined staff of Hungarian State Opera 1951-; conductor, touring throughout Europe 1951-, and in U.S.A. 1972; concerts with Berlin Philharmonic Orchestra 1974, 1975, 1978; toured with Bamberg Symphony Orchestra to Festivals of Ascona, Montreux, Besançon and Ludwigsburg 1976, 1978; gave first performance of numerous Hungarian 20th-century works; has conducted everything from 17th-century opera (Monteverdi: Poppea's Coronation) to contemporary oratorio (E. Petrovics: The Book of Jonah); Kossuth Prize 1975. *Publications:* Franz Schubert (biography) 1963, numerous studies in musical journals. *Leisure interests:* travel, architecture. *Address:* H-1115 Budapest, Tétényi ut 7A, Hungary. *Telephone:* 655-160.

ERFURTH, Ulrich; German theatre director; b. 22 March 1910, Elberfeld; m. Ingeborg Brose 1934; two d.; ed. Univs. of Cologne and Berlin. Actor and Producer, Municipal Theatre, Wuppertal 1931-34; Chief Producer, Koblenz 1934-35; Producer, Staatstheater, Berlin 1934-35; Producer, Hamburg, and Artistic Dir. Real-Film GmbH 1946-49; Chief Producer, City Theatres, Düsseldorf, and Schauspielhaus, Hamburg 1949; Production Dir., Düsseldorf 1951-55; Chief Producer, Hamburg 1955-62; Dir. Volkstheater, Vienna, and Chief Producer, Schauspielhaus, Hamburg 1962-64; Dir. Kammerspiele, Hamburg, and Deutsche Kammerspiele, Santiago 1964; Ord. Prof., Folkwanghochschule, Essen 1964; Deutsche Kammerspiele, Buenos Aires 1965, Burgtheater, Vienna 1965; Bad Hersfeld Festival 1966; Gen. Supt. City Theatres, Frankfurt 1968-72, Man. Hersfelder Festival 1965-75. *Leisure interest:* music. *Address:* Zickzackweg 12a, 2 Hamburg-Othmarschen, Federal Republic of Germany.

ERGIN, Sait Naci; Turkish civil servant and politician; b. 1908, Nigde; m.; two c.; ed. Faculty of Political Sciences, Istanbul; joined Ministry of Interior, later Ministry of Finance; studied public finance in France; later Under-Sec., Ministry of Finance, Ankara; mem. Constituent Assembly responsible for drafting 1961 Constitution; Minister of Finance 1971-72. *Address:* Ankara, Turkey.

ERICKSON, Arthur Charles, O.C., B.ARCH., F.R.A.I.C., A.R.C.A.; Canadian architect; b. 14 June 1924, Vancouver; s. of late Oscar and of Myrtle Erickson; ed. Univ. of British Columbia, McGill Univ.; travel study in Mediterranean countries and N. Europe; Asst. Prof. Univ. of Oregon 1955-56; Assoc. Prof. Univ. of British Columbia 1961; Canada Council Fellowship for architectural research in Asia 1961; with Erickson, Massey 1963-72; mem. many architectural insts., assens.; mem. Science Council of Canada Cttee. on Urban Devt. 1971, Board Canadian Conf. of the Arts 1972, Canadian Council on Urban Research, Board of Trustees, Inst. for Research on Public Policy, Design Council of Portland Devt. Comm.; Life mem. Vancouver Art Gallery; Hon. Fellow, American Inst. of Architects 1978; Hon. D. Eng., (Nova Scotia Technical Coll.) 1971, Hon. LL.D. (Simon Fraser Univ.) 1973, (McGill Univ.) 1975, (Univ. of Manitoba) 1978; won First Prize in competition for Simon Fraser Univ., First Prize for design of Canadian Pavilion at Expo '70, Osaka, Pan Pacific Citation, American Inst. of Architects, Hawaiian Chapter 1963, Molson prize, Canada Council for the Arts 1967, Architectural Inst. of Japan Award for Best Pavilion Expo '70, Royal Bank of Canada Award 1971, American Architectural Fraternity 1973, Auguste Perret Award, Int. Union of Architects 1974, Canadian Housing Design Council Awards for Residential Design 1975. *Publications:* The Architecture of Arthur Erickson 1975. *Address:* Arthur Erickson Architects, 2412 Laurel Street, Vancouver, B.C. and 80 Bloor Street West, Toronto M5S 2V1, Ont. (Offices); Vancouver, B.C., Canada (Home). *Telephone:* 879-0221 (Office, Vancouver); 416 967-4477 (Toronto).

ERICKSON, Richard John, M.A., J.D., PH.D.; American officer, lawyer and educator; b. 21 June 1943, Alexandria, Va.; s. of Theodore John Erickson and Helen Anita (née Whisnant); m. Joan Kathryn Harmony 1970; one d.; ed. Florida State Univ., Univ. of Michigan Law School and Univ. of Virginia. Graduate Asst. Fla. State Univ. 1964-65; Visiting Prof. Univ. of Detroit 1970; Asst. Staff Judge Advocate, Headquarters Air Univ., Maxwell Air Force Base 1971-73; Project Researcher, Office of The Judge Advocate-Gen., U.S.A.F. 1971-75; U.S. Expert at Geneva Conf. on the Reaffirmation and Devt. of Int. Humanitarian Law in Armed Conflict 1972; Editor-in-Chief Air Force Law Review 1973-75; Faculty mem., The Judge Advocate-Gen's School, U.S.A.F., Maxwell Air Force Base 1973-75; Deputy Dir. and Chief Int. Law Div. HQ U.S.A.F., Europe, Ramstein Air Base, Fed. Repub. of Germany 1975-77, Chief 1977-78; Attorney Advisor, Int. Law Div. HQ U.S.A.F., Washington, D.C. 1978-; Meritorious Service Medal with Oak Leaf. *Publications:* International Law and the Revolutionary State 1972; articles in Air University Review, Air Force Law Review, Alabama Lawyer. *Leisure interests:* bridge, chess, bowling. *Address:* Headquarters U.S.A.F./JACI, Washington, D.C. 20330, U.S.A. *Telephone:* OX-5-6931.

ERICSON, Admiral Stig Hson-; Swedish naval officer; b. 12 July 1897, Stockholm; s. of Rear-Admiral and Cabinet Minister Hans Ericson and Elin Gadelius; m. Barbro Almström 1921; one d.; ed. Stockholm; joined Navy 1915, Cdre. 1943, Rear-Admiral 1945; Commanding Active Fleet 1950-53; Vice-Admiral 1953; Commdr.-in-Chief 1953-61, Admiral 1961; Grand Marshal of the Royal Court 1962-69; Grand Marshal of the Realm 1970-76; Pres. of Board Carnegie Foundation of Sweden. *Publications:* books on naval affairs and memoirs. *Leisure interests:* writing and painting. *Address:* Slottsbacken 2, Stockholm C. Sweden. *Telephone:* 08-112526.

ERIKSON, Erik Homburger; American psychoanalyst; b. 15 June 1902, Frankfurt am Main, Germany; m. Joan Mowat Serson; two s. one d.; ed. Vienna Psychoanalytic Inst., Univ. of Vienna, Harvard Univ. Research Fellow, Harvard Medical School 1935-36; Research Asst., Instructor, Asst. Prof. in Psychoanalysis Yale School of Medicine 1936-39; Research Assoc. Child Devt., Lecturer in Psychiatry, Prof. of Psychology Univ. of Calif. 1939-51; training psychoanalyst, San Francisco 1942-; Senior Staff mem. Austen Riggs Center, Stockbridge, Mass. 1951-60; Visiting Prof. Psychiatry Univ. of Pittsburgh Medical School 1951-60; Visiting Prof. Int. Studies M.I.T. 1958-60; Prof. of Human Devt., Lecturer in Psychiatry Harvard Univ. 1960-70, Prof. Emer. 1970; Sr. Consultant in Psychiatry Mount Zion Hosp., San Francisco 1972-; mem. Int. Psychoanalytic Assn. (Vienna) 1933, American Psychoanalytic Assn. (Boston) 1934 (Life mem. 1964), Nat. Acad. of Educ., American Acad. of Arts and Sciences; Fellow Center for Advanced Studies in the Behavioural Sciences, Stanford, Calif. 1962, 1965, Davie Lecturer (Cape Town) 1968, Godkin Lecturer (Harvard) 1972, Jefferson Lecturer Nat. Endowment for the Humanities 1973; Hon. M.A. (Harvard), LL.D. (Brown, Harvard, Calif.), Sc.D. (Loyola), Soc. Sc. D. (Yale); Foneme Prize (Milan) 1969, Nat. Book Award 1970, Pulitzer Prize 1970, Melcher Award 1970, Aldrich Award American Acad. of Pediatrics 1971, Research Award Nat. Assoc. For Mental Health 1974. *Publications:* Childhood and Society 1950, 1963, Young Man Luther: A Study in the Psychoanalysis and History 1958, Insight and Responsibility 1964, Identity: Youth and Crisis 1968, Gandhi's Truth: On the Origins of Militant Non-Violence 1969, Dimensions of a New Identity (1973 Jefferson Lectures) 1974, Life History and the Historical Moment 1975, Toys and Reasons 1976. *Address:* Tiburon, Calif. 94920, U.S.A. *Telephone:* (415)435-2008.

ERIM, Nihat, PH.D.; Turkish politician; b. 1912, Kandira, Kocael Province; m.; two c.; ed. Lycée of Galatasaray, Istanbul, and Univ. of Istanbul Law School and Univ. of Paris. Prof. of Constitutional and Int. Law, Univ. of Ankara and Legal Adviser, Ministry of Foreign Affairs 1942; mem. Parl. 1945-50; Minister of Public Works, concurrently Deputy Prime Minister 1948-50; Publr. and Editor ULUS (organ of the Republican People's Party) 1950, subsequently Publr. and Editor of Halkçi; mem. for Turkey, European Human Rights Comm.; mem. Nat. Assembly 1961-72; Deputy Chair. Republican People's Party Nat. Assembly Group 1961-71; mem. Turkish Parl. Group, European Council 1961-70; Prime Minister 1971-72; mem. Senate of the Repub. 1972-. *Publications:* several books on law. *Address:* Cumhuriyet Senatosu, Türkiye Büryük Millet Meclisi, Ankara, Turkey.

ERKIN, Feridun Cemal; Turkish diplomatist; b. 1899; ed. Galatasaray Lyceum and Univ. of Paris (Law Faculty). First Sec. Turkish Embassy London 1928-29; Counsellor in Berlin 1934-35; Consul-Gen. Beirut 1935-37; Head of Commercial Dept. of Min. of Foreign Affairs 1937-38; Head of Political Dept. Ministry of Foreign Affairs 1939-42; Asst. Sec.-Gen. with rank of Minister 1942-45; Sec.-Gen. with rank of Amb. 1945; Turkish del. at UN Conf. San Francisco 1945; Head of Turkish del. Final meeting of League of Nations 1946; Amb. to Italy 1947-48, to U.S.A. 1948-55, to Spain 1955-57, to France 1957-60, to U.K. 1960; Minister of Foreign Affairs March 1962-65; mem. Turkish Nat. Assembly; mem. Int. Diplomatic Acad., Geneva; mem. Acad. of Political Sciences, New York; mem. Inst. de France (Academy of Moral and Political Sciences). *Address:* Disisien Bakanligi, Ankara, Turkey.

ERLANDER, Tage Fritiof, B.A.; Swedish politician; b. 13 June 1901; ed. elementary school, public high school of Karlstad, and Univ. of Lund; graduated 1928; on the Editorial Staff of Svensk Upplagsbok (Swedish Encylcopaedia) 1928-38; mem. of Parl. Second Chamber 1933-44, First Chamber 1945-48, Second Chamber 1949-70, Unicameral. Parl. 1971-73; Under-Sec. of State of Ministry of Social Affairs 1938; Minister without Portfolio 1944-45, of Educ. 1945-46; Prime Minister 1946-69; Social Democratic Labour Party. *Address:* Fyrverkarbacken 21, 11260 Stockholm, Sweden.

ERLANGER, Philippe; French writer and international art organizer; b. 11 July 1903, Paris; s. of late Camille Erlanger; ed. Lycée Janson de Sailly, Université de Paris à la Sorbonne and Ecole libre des sciences politiques; organizer of about 500 exhbns. and over 1,000 theatrical and musical presentations; Dir. French Assn. for Artistic Affairs 1938-68; Head, Artistic Exchange Dept., Ministry of Foreign Affairs 1946-68; Inspector-Gen. Ministry of National Education 1960-67; Minister Plenipotentiary 1968; Founder and Hon. Pres. Cannes Int. Film Festival 1946; Grand Prix du Rayonnement Français 1962, Grand Prix Littéraire de Département de la Seine 1963, Prix des Ambassadeurs 1966, Grand Prix Gobert (Acad. Française) 1969; Commdr. Légion d'honneur, Hon. C.B.E., and numerous other French and foreign decorations. *Publications:* include Henri III 1935, Le Régent 1938, Monsieur, Frère de Louis XIV 1953, Diane de Poitiers 1955, L'étrange mort de Henry IV 1957, Le Massacre de la Saint-Barthélemy 1960, Cinq Mars 1962, Louis XIV 1965, Clemenceau 1968, Richelieu 1969, Margaret d'Anjou 1970, La Reine Margot 1972, La France sans étoile 1974, La vie de Madame de Longueville 1977, Philippe V d'Espagne 1978. *Address:* Résidence du Grand Hotel, 45 Croisette, Cannes 06, France (Home). *Telephone:* 38-13-00.

ERLICH, Simha; Israeli industrialist and politician; b. 15 Dec. 1915, Poland; s. of Izhak Erlich; m. Zilla Goldgram 1942; one s. one d.; ed. high school and econ studies; industrialist; mem. Tel-Aviv Municipality Council 1955-69; mem. Knesset 1969-; fmr. Dep. Mayor and Head of Lighting and Water Dept. of Sanitation Dept. of Bureau of Municipal Corpn.; Nat. Secr. of Liberal Party; mem. Exec. Cttee., Gattal of Knesset Finance Cttee. and Sub-cttee. for Defence Budget; Minister of Finance June 1977-; Chair. Habimah Co., mem. Publicity Cttee. for Israel Opera; Likud. *Address:* The Knesset, Jerusalem, Israel.

ERMINI, Giuseppe, DR.JUR.; Italian lawyer and politician; b. 20 July 1900. Prof. of History of Italian Law, Urbino Univ. Fellow 1926-; Prof. of Univ. of Cagliari 1927, subsequently of Perugia Univ.; fmr. Rector of Perugia Univ.; Christian Democrat deputy 1946-; Pres. of Comm. for Educ. and Fine Arts; Under-Sec. Entertainments Office 1954; Minister of Educ. 1954-55; then Senator. *Address:* c/o The Senate, Rome, Italy.

ERNEMANN, André; Belgian diplomatist; b. 31 Aug. 1923, Antwerp; s. of Joseph Jean Ernemann and Marthe Janssens; m. Kristin Diaz 1977; entered Foreign Service 1947; served Rome, Teheran, Paris; Consul-Gen. in New York 1969; mem. del. to Conf. on Security and Co-operation in Europe 1973; Dir. Int. Orgs. Service in Ministry of Foreign Affairs; Perm. Rep. to UN Sept. 1976-. *Leisure interest:* tennis. *Address:* Permanent Mission of Belgium to the United Nations, 809 United Nations Plaza, 2nd Floor, New York, N.Y. 10017 (Office); One Beekman Place, New York, N.Y. 10022, U.S.A. (Home). *Telephone:* (212) 593-1218 (Home).

ERNI, Hans; Swiss painter; b. 21 Feb. 1909, Lucerne; m. Doris Kessler 1949; one s. two d.; ed. Académie Julien, Paris and Vereinigte Staatsschulen für freie und angewandte Kunst, Berlin. mem. Groupe Abstraction-Création, Paris; mem. S.W.B.; exhbns. Lucerne, Paris, Basle, Oxford, Liverpool, London, Cambridge, Leicester, Zürich, Milan, Rotterdam, Prague, Stockholm, Chicago, New York, Rome, Copenhagen, Tokyo, San Francisco, Los Angeles, Washington, Mannheim, Cologne; abstract mural picture Swiss section Triennale Milan, frescoes Lucerne; great mural Switzerland for Swiss Nat. Exhbn. Zürich 1939; Great Murals Exposition internationale de l'Urbanisme et de l'Habitation Paris 1947, Mural in Bernese hospital Montana; mem. Alliance Graphique Int.; Int. Prize at the Biennale del Mare 1953; great mural at the Musée Ethno-

graphique, Neuchâtel 1954; has illustrated bibliophile edns. of classics by Plato, Pindar, Sophocles, Virgil, Buffon, Renard, Valéry, Homer (Odyssey), Albert Schweitzer (La Paix), Voltaire (Candide), Paul Eluard, etc.; murals for Int. Exhbn. in Brussels 1958; mosaics for the Abbey of St. Maurice 1961, for Swiss T.V. and Radio Building, Berne 1964; Engraved glass panels "Day and Night" and "Towards a Humanistic Future" for the Société des Banques Suisses, Geneva, 1963; exhibitions in Japan and Australia 1963, 1964, Pro Juventute stamps 1965; murals in Rolex Foundation, Union de Banques Suisses, Sion 1966, for Swissair Zürich, and La Placette Geneva 1967; exhbns. in Chicago, New York, Geneva 1966-68. *Publications:* Wo steht der Maler in der Gegenwart? 1947, Erni en Valais 1967, Israel Sketchbook 1968. *Leisure interest:* art. *Address:* 6045 Meggen, Lucerne, Switzerland. *Telephone:* 041-371382.

ERNSTBERGER, Anton, DR.IUR.; German banker; b. 20 August 1910, Munich; s. of Adolf and Therese (née Reiner) Ernstberger; m. Angela Lorenz 1938; one d.; ed. Univ. of Munich. Assessor, Bavarian Ministry of Interior 1936-37; with Bankhaus Merck, Finck & Co., Munich 1937-56, Exec. Man. 1950; Man. Dir. Bankhaus Hardy & Co. GmbH, Frankfurt 1956-60; Partner, Bankhaus August Lenz & Co., Munich 1958-60, Gen. Partner 1960-; mem. Exec. Board, Bayerische Hypotheken- und Wechselbank, Munich 60-, Chief Spokesman 1968-76; mem. Exec. Board, Deutscher Kanal- und Schiffahrtsverein, Rhein-Main-Donau e.v.; Chair. of Board, AGROB AG, Ismaning, Bayerische Hypotheken-und Wechsel-Bank, Munich, Dreschner Bank AG, Frankfurt, Paulaner-Salvator-Thomasbräu, Munich, August Lenz & Co. (Canada) Ltd., Papierwerke Waldhof-Aschaffenburg AG, Munich, Carl Steiner & Co. AG, Salzburg, United Ceramics Ltd., Toronto and Salzburger Kreditund Wechselbank; Chair. of Board, Dortmunder Union-Schultheiss Brauerei AG, Dortmund und Berlin; Deputy Chair. of Board, Karl Wenschow GmbH, Munich Westfalen bank AG, Bochum, Wicküler-Küpper-Brauerei K.G.a.A., Wuppertal, Held und Francke Bau AG, Munich; mem. Board of Dirs. Magirus Deutz AG (Ulm), Anton Steinecker Machinenfabrik GmbH, Freising; mem. Board Bank für Kärnten AG, Klagenfurt, and several other admin. and consultative boards; Royal Swedish Consul General. *Leisure interests:* family life, religious activities, gardening, hiking, swimming and collecting old jugs. *Address:* 8000 Munich 2, Theatinerstrasse 11, Federal Republic of Germany. *Telephone:* 23661.

ERROLL OF HALE, 1st Baron (cr. 1964) of Kilmun in the County of Argyll; **Frederick James Eroll,** P.C., M.A. C.ENG., F.I.E.E., F.I.MECH.E.; British politician; b. 27 May 1914, London; s. of late George Murison Erroll; m. Elizabeth Sowton Barrow 1950; ed. Oundle School and Trinity Coll., Cambridge; served in engineering industry 1936-39; war service, Tank Div., reached rank of Col. 1939-45; M.P. for Altrincham and Sale 1945-64; Parl. Sec. Ministry of Supply 1955-56, Board of Trade 1956-58; Econ. Sec. Treasury 1958-59; Minister of State, Board of Trade 1959-60; Privy Counsellor 1960-; Pres. Board of Trade 1961-63; Minister of Power 1963-64; mem. Nat. Econ. Development Council 1962-63; Chair. Bowater Corpn. 1973-, Consolidated Gold Fields 1976-, Chair and Dir. of several other cos. 1965-; Pres. London Chamber of Commerce 1966-69, Vice-Pres. 1969; mem. of the Council of Inst. of Dirs. 1949-55, 1965, Chair. 1973-76, Pres. 1976-; Deputy Chair. Decimal Currency Board 1966-71; Pres. of the British Export Houses Assn. 1968-72, Hispanic and Luso-Brazilian Councils 1969-73 Chair. Cttee. on Liquor Licensing 1971-72, Automobile Assn. 1974-; Conservative. *Address:* 21 Ilchester Place, London, W.14, England. *Telephone:* 01-602 2195.

ERSKINE, Sir George, (see Erskine, Sir Robert George).

ERSKINE, Ralph, C.B.E., A.R.I.B.A., A.M.T.P.I., S.A.R.; British architect; b. 24 Feb. 1914, Mill Hill, London; s. of George Erskine and Mildred (née Gough); m. Ruth Monica Francis 1939; one s. two d.; ed. Friends' School, Saffron Walden, Essex, Regent Street Polytechnic, London, and Konst. Akad., Stockholm; own practice in Sweden since 1939, branch office in Byker, Newcastle upon Tyne 1969-; engaged in city renewals plans, new library for Stockholm Univ., town planning, designs for flats, private houses, housing estates, industrial buildings, churches, shopping centres, and homes for the elderly; designed Hall of Residence, Clare Coll., Cambridge, England; studies and research in architectural problems on building in subarctic regions, sketches: town site, Resolute, N.W.T., Canada; Guest Prof. at Technical School, Zürich; lectures in Netherlands, Japan, Canada, Sweden, Finland, Poland, Denmark, Switzerland, England and America; has participated in exhbns. in Sweden, Canada, Netherlands, Denmark and Switzerland; foreign mem. Royal Swedish Acad. of Arts; Hon. A.I.A., Dr.Tech. (Lund Univ.) 1975; Kasper Salin Prize (Sweden), Ytong Prize 1974. *Leisure interests:* skiing, skating, sailing. *Address:* Gustav III's väg, 170 11 Drottningholm, Sweden. *Telephone:* 7590352, 7590050 (Office).

ERSKINE, Sir (Robert) George, Kt., C.B.E., B.L.; British merchant banker; b. 5 Nov. 1896; ed. Kirkcudbright Acad. and Edinburgh Univ.; on staff of Nat. Bank of Scotland 1913-29; served First World War 1914-18 joined Morgan Grenfell & Co. Ltd. 1929, Dir. 1945-67, later Adviser; Master of Glaziers Co. 1960-61; High Sheriff of Surrey 1963-64; Pres. Inst. of Bankers 1954-56; Deputy Chair. Navy, Army and Air Force Inst. 1941-52; mem. Jenkins Cttee. on Company Law 1959-62, Council R.A.F. Benevolent Fund, London Advisory Cttee. Scottish Council (Devt. and Industry). *Address:* Busbridge Wood, Godalming, Surrey, England. *Telephone:* Hascombe 378.

ERSKINE OF RERRICK, 1st Baron (cr. 1964); **John Maxwell Erskine,** Bart., G.B.E., Kt., K.ST.J., D.L., J.P., F.R.S.E.; British public servant; b. 14 Dec. 1893, Kirkcudbright; s. of John and Maryanne Erskine; m. Henrietta Dunnett 1922; one s. one d.; ed. Kirkcudbright Acad. and Edinburgh Univ.; Governor of Northern Ireland 1964-68; Gen. Man. Commercial Bank of Scotland Ltd. (now incorporated in Royal Bank of Scotland), Edinburgh 1932-53, Dir. 1951-69; fmr. Dir. Caledonian Insurance Co., Guardian Assurance Co. Ltd. and other cos.; official of numerous commercial and civic orgs.; Hon LL.D. (Glasgow and Belfast); Hon. F.R.C.P.(E.). *Address:* "The Croft-Westside", 8 Churchfields Avenue, Weybridge, Surrey, England.

ERTL, Josef; German politician; b. 7 March 1925, Oberschleissheim; ed. Technical Univ. of Munich; joined Bavarian State Ministry of Food, Agriculture and Forests 1952; Dir. Youth Advisory Service until 1959; Head, Agricultural School, Miesbach 1959; Dir., Office of Agriculture, Miesbach 1960; Senior Agricultural Counsellor 1960; mem. Bundestag 1961-; Land Vice-Chair. 1963; Vice-Chair. Parl. Free Democrats 1968-; Fed. Minister of Food, Agriculture and Forestry 1969-; Free Democrat. *Address:* Bundesministerium für Landwirtschaft, 53 Bonn-Duisdorf, Bonner Strasse 85, Federal Republic of Germany.

ERVIN, Samuel James, Jr., A.B., LL.B.; American politician and lawyer; b. 27 Sept. 1896, Morganton, N. Carolina; m. Margaret Bruce Bell 1924; one s. two d.; ed. Univ. of N. Carolina and Harvard Univ.; served in France with First Div., First World War; practised law, Morganton 1922-. except for service on bench; Rep. in N.C. Gen. Assembly 1923, 1925, 1931; Judge, Burke County Criminal Court 1935-37, N.C. Superior Court 1937-43; Rep. from 10th N.C. District, 79th Congress 1946-47; Assoc. Justice, N.C. Supreme Court 1948-54; Senator from N. Carolina 1954-74; Chair. Senate Watergate Cttee. 1973; numerous hon. degrees; Democrat. *Address:* P.O. Box 69, Morganton, North Carolina 28655, U.S.A.

ESAKI, Leo, PH.D.; Japanese scientist; b. 12 March 1925, Osaka; s. of Soichiro Esaki and Niyoko Ito; m. Masako Araki 1959; one s. two d.; ed. Univ. of Tokyo; with Sony Corpn. 1956-60, conducted research on heavily-doped Ge and Si which resulted in the discovery of tunnel diode; with IBM Corpn., U.S.A. 1960-, IBM Fellow, IBM T. J. Watson Research Center, N.Y., 1960-, Man. Device Research 1962-; major field of research is nonlinear transport and optical properties on semiconductors, junctions, thin films, etc., currently involved on ■ man-made semiconductor lattice grown by a sophisticated ultra-high vacuum evaporation system: a computer-controlled molecular-beam epitaxy; mem. Japan Acad. 1975; Foreign Assoc. American Nat. Acad. of Sciences 1976, American Nat. Acad. of Engineering 1977; Nishina Memorial Award 1959, Asahi Press Award 1960, Toyo Rayon Foundation Award 1961, Morris N. Liebmann Memorial Prize 1961, Stuart Ballantine Medal, Franklin Inst. 1961, Japan Acad. Award 1965, Nobel Prize for Physics 1973, Order of Culture, Japanese Govt. 1974. *Publications:* numerous articles in professional journals. *Address:* IBM T. J. Watson Research Center, P.O. Box 218, Yorktown Heights, N.Y. 10598; 16 Shady Lane, Chappaqua, N.Y. 10514, U.S.A. (Home). *Telephone:* (914) 945-2342 (Office); (914) 238-3329 (Home).

ESAKI, Masumi; Japanese politician; b. 1915. mem. House of Reps. for Aichi prefecture, elected 11 times; twice head, Defence Agency, implementing controversial fourth defence strengthening programme, fmr. Parl. Vice-Minister for Construction; fmr. Deputy Sec.-Gen. and Chair. Liberal Dem. Party Diet Policy Cttee.; Chair. Exec. Council, LDP 1976-77; Minister of Home Affairs and Chair. Nat. Public Safety Comm. 1972-73; Minister of Int. Trade and Industry Dec., 1978-; Liberal Dem. Party. *Leisure interest:* yachting. *Address:* House of Representatives, Tokyo, Japan.

ESAU, Katherine, PH.D.; American botanist; b. 3 April 1898, Yekaterinoslav, Ukraine (now Dnepropetrovsk, U.S.S.R.); d. of John Esau and Margarethe Toews; ed. Coll of Agriculture, Moscow,

in Berlin and Univ. of Calif. at Berkeley. Instructor and Junior Botanist, Univ. of Calif. at Davis 1931, other ranks 1931-49, Prof. and Botanist 1949-65 (transferred to Santa Barbara Campus 1963), Prof. of Botany, Emer. 1965-; continuing research in plant anatomy, ultrastructure and effects of viruses on plants; Pres. Botanical Soc. of America 1951; Faculty Research Lecturer Univ. of Calif. at Davis 1946, Prather Lecturer in Biology Harvard Univ. 1960, John Charles Walker Lecturer Univ. of Wis. 1968; John Wesley Powell Memorial Lecturer, Lubbock, Texas 1973; Fellow John Simon Guggenheim Foundation 1940; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences, American Philosophical Soc.; Hon. D.Sc. (Mills Coll., Oakland, Calif.), Hon. LL.D. (Univ. of Calif.); Merit Award Certificate, 50th Anniversary of Botanical Soc. of America 1956, Eleventh Int. Botanical Congress Medal 1969; Foreign mem. Swedish Royal Acad. of Sciences 1971-. *Publications:* Plant Anatomy 1953, Anatomy of Seed Plants 1960, Plants, Viruses and Insects 1961, Vascular Differentiation in Plants 1965; Viruses in Plant Hosts: Form, Distribution and Pathologic Effects 1968, The Phloem Vo. 5, Part 2 of the Handbuch der Pflanzenanatomie 1969; and numerous research articles. *Address:* Department of Biological Sciences, University of California, Santa Barbara, Calif. 93106 (Office); 8 West Constance Apt. 8, Santa Barbara, Calif. 93105, U.S.A. (Home). *Telephone:* (805)961-2645 (Office); (805)687-0830 (Home).

ESCANDE, Leopold, D. ès SC. PHYS.; French university professor; b. 1 June 1902, Toulouse; s. of Gabriel Escande and Jenny Desmazures; m. Renée Setzes 1924; one d.; ed. Inst. Electrotechnique et de Mécanique Appliquée Toulouse and Toulouse Univ.; Prof. of Hydraulics, Toulouse Univ. 1937-72; Hon. Chair. Institute Nat. Polytechnique de Toulouse; Scientific Adviser to Délégation Générale à la Recherche Scientifique; mem. Acad. des Sciences (Paris) and corresp. mem. Acad. of Coimbra (Portugal), of Rio de Janeiro, of Bologna, Bogotá, Madrid, Barcelona, Lima, also at Mexico, Belgrade, Milan, Padua, Buenos Aires, Caracas, Warsaw, Genoa, Zagreb, Naples, Sofia; Dr. h.c. (Univs. of Recife, São Paulo, Lisbon, Liège, Porto Algre, Lima, Rio de Janeiro, Vienna, Ghent, Buenos Aires, Berlin, Cracow, Salonica, Sherbrooke, Genoa, Bath, Sarajevo); Grand Officer, Légion d'honneur, Grand Croix, Ordre nationale du Mérite. *Publications:* Etude théorique et expérimentale sur la similitude des fluides incompressibles pesants 1929, Barrages 1937, Etudes des veines de courant 1940, Hydraulique générale 1941-43, Recherches théoriques et expérimentales sur les oscillations de l'eau dans les chambres d'équilibre 1943, Compléments d'hydraulique Vol. I 1947, Vol. II 1951, Méthodes nouvelles pour le calcul des chambres d'équilibre 1949, Nouveaux compléments d'hydraulique Vol. I 1953, Vol. II 1955, Vol. III 1958, Vol. IV 1963, Rêves et souvenirs Vol. I 1973, Vol. II 1974, Vol. III 1975, Vol IV 1976, Vol V 1978, Vol VI 1978. *Leisure interests:* painting, poetry, travel. *Address:* "Enseeiht", 2 rue Camichel, 31 Toulouse; and 8 rue Claire Pauilhac, 31 Toulouse, France.

ESCHENBACH, Christoph; German conductor and concert pianist; b. 20 Feb. 1940, Breslau; ed. Musikhochschulen, Cologne and Hamburg; became Musical Director of Philharmonic Orchestra, Ludwigshafen 1978; 1st Prize, Steinway Piano Competition 1952, Munich Int. Competition 1962, Clara Haskil Competition 1965. *Address:* Maspalomas, Monte Leon 760625, Gran Canaria.

ESCHENMOSER, Albert, DR. SC. NAT.; Swiss chemist; b. 5 Aug. 1925, Erstfeld; s. of Alfons and Johanna (née Oesch) Eschenmoser; m. Elizabeth Baschnonga 1954; two s. one d.; ed. Collegium Altdorf, Kantonsschule St. Gallen, Swiss Federal Inst. of Technology, Zurich. Privatdozent, Organic Chemistry, Swiss Fed. Inst. of Technology 1956, Prof. of Organic Chemistry 1960, Prof. Gen. Organic Chemistry 1965; Foreign Hon. mem. American Acad. of Arts and Sciences 1966; Foreign Assoc. Nat. Acad. of Sciences, U.S.A. 1973; mem. Deutsche akademie der Naturforscher Leopoldina (Halle) 1976; Hon. Dr. rer. nat. (Fribourg) 1966, Hon. D.Sc. (Chicago) 1970; Kern Award, Swiss Fed. Inst. of Technology 1949, Werner Award, Swiss Chemical Soc. 1956, Ruzicka Award, Swiss Fed. Inst. of Technology 1958, Fritzsche Award, American Chemical Soc. 1966, Marcel Benoist Prize 1973, R. A. Welch Award in Chemistry (Houston, Texas) 1974, Kirkwood Medal (Yale) 1976, A.W.V. Hofmann-Deukmünze, GDCh 1976, Dannie-Heinemann Prize (Akademie de Wissenschaften, Göttingen) 1977, Davy Medal (Royal Soc., London) 1978. *Publications:* numerous articles in professional journals. *Address:* Bergstrasse 9, 8700 Küsnacht (ZH), Switzerland. *Telephone:* 9107392.

ESCHER, Alfred Martin, DR. JUR.; Swiss Diplomatist; b. 23 March 1906; ed. Univs. of Zürich, Berlin and Kiel, Acad. for Int. Law, The Hague; entered service of Fed. Political Dept. 1931; Attaché, Bangkok 1932; Sec. of Legation, Warsaw 1935, Berlin 1939; First Soc., Berlin 1941, Ankara 1941; Consul, Baghdad 1942, Athens 1944; Counsellor, London 1945; Commr. Int. Cttee. of the Red Cross for Refugees in Palestine 1948; Minister to Iran 1951-54, concurrently to Afghanistan 1953-54; mem. Neutral Nations Supervisory Comm. for Armistice, Korea 1954; Minister to Italy 1955-57, Amb. to Italy 1957-59, to Fed. Repub. of Germany, 1959-64, to Austria 1964-72; Rep. of UN Sec.-Gen. responsible for Namibia (S.W. Africa) 1972-73. *Address:* Alte Landstrasse 34, 8702 Zollikon, Switzerland.

ESCHERICH, Rudolf Johann, DR.RER.POL; German business executive; b. 27 Oct. 1923, Wegscheid, Bavaria; m. Helga Koch 1959; one s. one d.; ed. Univ. of Munich. Chair. Man. Board Vereinigte Aluminium-Werke AG, Man. Board VIAG Vereinigte Industrie-Unternehmungen AG. *Leisure interests:* flying, golf, tennis, skiing. *Address:* Vereinigte Aluminium-Werke AG, 5300 Bonn. Georgvon-Boeselager-Strasse 25 (Office); 5205 St. Augustin 2, Drachenfelsstrasse 13, Federal Republic of Germany. (Home). *Telephone:* 552215 (Office); Siegburg 22596 (Home).

ESCOBAR, Maria Luisa; Venezuelan composer; b. 5 Dec. 1909; ed. Curaçao and Paris. Founder and Pres. until 1943 Ateneo de Caracas; founder and Dir-Gen. Asociación Venezolana de Autores y Compositores (A.V.A.C.) 1947; Artistic Dir. the Ballet-Theatre of Caracas; rep. Venezuela at Int. Congress on Musical Education, Paris 1937, Int. Conf. of Society Authors and Composers, Buenos Aires 1948, Rome 1962, 25th Int. Congress Nat. Fed. of Music Clubs, U.S.A. 1949, First Inter-American Music Conf., U.S.A. 1949; awarded medals and diplomas of honour by Venezuela, France, Cuba, Mexico, U.S.A., and India. *Works include:* Orquideas azules (symphony and ballet), La Princesa Girasol (operetta), Guaicaipuro (ballet), Vals Sentimental (piano and orchestra), El Rey Guaicaipuro (opera), Canaimé (musical drama), Concierto Sentimental (piano and orchestra), Pajaro de Siele Colores (violin and piano) and many folksongs, etc. *Leisure interests:* journalism, radio and T.V. announcing. *Address:* Apartado Postal 10, 233, Caracas; Guaicaipuro, Calle Baruta, Bello Monte (Notre), Caracas, Venezuela (Home).

ESCOBAR CERDA, Luis; Chilean economist; b. 1927; m. 2nd Helga Koch 1973; four c.; ed. Univ. de Chile and Harvard Univ.; Dir. School of Econs., Univ. de Chile 1951-55, Dean of Faculty of Econs. 1955-64; Minister of Econ. Devt. and Reconstruction 1961-63; mem. Inter-American Cttee. for Alliance for Progress 1964-66; Exec. Dir. Int. Monetary Fund 1964-66, 1968-70, IBRD 1966-68; Special Rep. for Inter-American Orgs. IBRD 1970-75; Trustee of Population Reference Bureau 1968-73; mem. Advisory Cttee. on Population and Devt. OAS 1968-73, Council Soc. for Int. Devt. 1969-72; Deputy Exec. Sec. Joint Bank/Fund Devt. Cttee. 1975-; Prof. Georgetown Univ. 1975-, George Washington Univ. 1977, Dept. of Econs., American Univ. 1978-. *Publications:* The Stock Market 1959, Organization for Economic Development 1961, A Stage of the National Economic Development 1962, Considerations on the Tasks of the University 1963, Organizational Requirements for Growth and Stability 1964, The Role of the Social Sciences in Latin America 1965, The Organization of Latin American Government 1968, Multinational Corporations in Latin America 1973, International Control of Investments 1974, External Financing in Latin America 1976, 1978. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C. 20433, U.S.A.; Los Tulipanes 2979, Santiago, Chile.

ESCOVAR SALOM, Ramón; Venezuelan politician; b. 1926, Lara State. mem. Nat. Congress 1947; Minister of Justice; Rep. to Lara State Legis. Assembly; mem. Senate; Sec.-Gen. of the Presidency 1974-75; Minister of Foreign Affairs 1975-77. *Address:* c/o Ministerio de Relaciones Exteriores, Carmelitas a Santa Capilla, Caracas, Venezuela.

ESPIE, Sir Frank Fletcher, Kt., O.B.E.; Australian mining engineer; b. 1917, Bawdwin, Burma; m.; four c.; ed. St. Peter's Coll., Adelaide, Adelaide Univ.; served 9th Div., Australian Imperial Forces, N. Africa and New Guinea rising to rank of Capt. 1940-45; Underground Man., then Mine Supt., Zinc Corpn.-New Broken Hill Consolidated Mines 1943-57, Asst. Gen. Man. for Production 1957-61; Gen. Man. Comalco Products, Yennora, Sydney 1961-62, Gen. Man. Industrial Div., Conzinc Riotinto of Australia Ltd. 1964-65; successively Exec. Dir., Man. Dir., Chair. of Dirs., Bougainville Copper Ltd. and Bougainville Mining Ltd. 1965-; Exec. Dir. Conzinc Riotinto of Australia Ltd. 1968-74, Deputy Chair. 1975-; Chair. Australian Mining and Smelting Ltd. until Jan. 1977, Mary Kathleen Uranium Ltd.; Dir. The Herald and Weekly Times Ltd., The Commercial Bank of Australia Ltd., Rio Tinto Zinc Corpn. Ltd., London, Australian Mines and Metals Assen.; Vice-Pres. Australian Mining Industry Council; Councillor Australian Mineral Industries

Research Assn.; mem. Australasian Inst. of Mining and Metallurgy (Pres. 1975). *Leisure interests:* golf, surfing. *Address:* Conzinc Riotinto of Australia Ltd., 95 Collins Street, Melbourne, Australia.

ESPY, R. H. Edwin, PH.D., B.D.; American church administrator; b. 30 Dec. 1908, Portland, Oregon; s. of Harry Albert and Helen Medora (Richardson) Espy; m. Cleo Lovace Mitchell 1944; ed. Univ. of Redlands, California, Union Theological Seminary, Univs. of Tübingen, Heidelberg and Yale; Youth Sec., Universal Christian Council for Life and Work, and World Alliance for Int. Friendship through the Churches, Geneva 1936-39; Sec. First World Conf. of Christian Youth Amsterdam 1939; Sec. European Student Relief Fund, New York 1940; Gen. Sec. Student Volunteer Movement for Foreign Missions 1940-43; Exec. Sec. Nat. Student Council, Y.M.C.A., New York 1943-35; Assoc. Exec. Sec. Div. of Christian Life and Work, Nat. Council of Churches, New York 1955-57; Assoc. Gen. Sec. Nat. Council of Churches 1958-63, Gen. Sec. 1963-73; Nat. Chair. Project Forward '76 (Bicentennial Religious Program) 1974-76; Dir. World Univ. Service 1943-57; del. to numerous Int. Religious Confs.; mem. Joint Working Group World Council of Churches and Roman Catholic Church 1965-74; Hon. D.D. (Redlands), L.H.D. (Oberlin Coll.), Litt.D. (Keuka Coll.). *Publications:* The Religion of College Teachers 1951, Religion and the American Bicentennial (Editor) 1976. *Address:* 475 Riverside Drive, New York, N.Y. 10025, U.S.A. (Office).

ESSER, Otto; German business executive; b. 1917. Partner and Man. E. Merck, Darmstadt; Vice-Chair. Fed. of Employers, German Chem. Industry; Pres. Fed. German Employers (BDA) 1978-. *Address:* 8765 Erlenbach, Am Forstweg 1, Germany.

ESSONGHE, Jean-Baptiste; Gabonese diplomatist; b. 1927, Setté-Cama, Gabon; m.; two c.; ed. Ecole Nat. de la France d'Outre-Mer, Paris; entered civil service, later Sec.-Gen. Nat. Assembly; First Counsellor, Embassy in France 1967-68, later in U.S.A., Perm. Mission to UN Office, Geneva, and Embassy in Canada; Amb. to Tunisia 1974-75; Perm. Rep. UN 1975-77; Amb. to Spain 1978-. *Address:* Embassy of Gabon, Dr. Fleming 31, Madrid, Spain.

ESTANG, Luc; French writer; b. 12 Nov. 1911, Paris; s. of Lucien Achille Marie Bastard and Marie Eugénie Peyroux; m. Suzanne Madeleine Bouchereau-Boisgontier 1939; ed. Artois and in Belgium; journalist and literary and dramatic critic, La Croix (Paris) 1934-55; Editorial Advisor to Editions du Seuil, Paris, weekly collaboration in Figaro Littéraire, and on radio; Grand Prix de la Société des Gens de Lettres 1949; Grand prix de Littérature de l'Académie Française 1962, Prix Guillaume Apollinaire 1968, Grand Prix de la Société des Poètes français 1978, Chevalier de la Légion d'honneur. *Publications:* novels: Les stigmates, Cherchait qui dévorer, Les fontaines du grand abîme, L'interrogatoire, L'horloger du cherche-midi, Le bonheur et le salut, Que ces mots répondent, L'apostat, La fille à l'oursin, Il était un p'tit homme, Boislevent; poetry: Les quatre éléments, Les béatitudes, D'une nuit noire et blanche, La laisse du temps; essays: Le passage du seigneur, Présence de Bernanos, Saint-Exupéry par lui-même, Ce que je crois, Invitation à la poésie; play: Le jour de Cain. *Address:* 28 rue de l'Université, 75007 Paris, France.

ESTES, Elliott Marantette; American motor manufacturing executive; b. 7 Jan. 1916, Mendon, Mich.; s. of Ernest Louis Estes and Jesse Isabelle Marantette; m. Constance Estes; three s.; ed. Univ. of Cincinnati; joined Gen. Motors Corpn. 1934; Chief Eng. Pontiac Motor Div. 1956-61, Gen. Man. 1961-65; Corp. Vice-Pres. 1961-72; Gen. Man. Chevrolet Motor Div. 1965-69; Group Exec. of Car and Truck Group 1969-70; Group Vice-Pres. Overseas Operations 1970-72; Exec. Vice-Pres. Operations Staff 1972-74; mem. Bd. of Dirs. 1972-; Pres. and Chief Operating Officer 1974-; Hon. D.S. (Cincinnati) 1971, Hon. D.L. (Kalamazoo Coll.) 1975, (Northern Michigan) 1976. *Leisure interests:* football, baseball, tennis, golf, swimming. *Address:* General Motors Corporation, 3044 West Grand Boulevard, Detroit, Mich. 48202, U.S.A.

ESTES, William K., PH.D.; American behavioural scientist; b. 17 June 1919, Minneapolis, Minn.; s. of Dr. George D. Estes and Mona Kaye; m. Katherine Walker 1942; two s.; ed. Univ. of Minn.; Medical officer U.S. Army 1944-46; Faculty mem. Indiana Univ. 1946-62; Prof. of Psychology Stanford Univ. 1962-68; Editor Journal of Comparative and Physiological Psychology 1962-68, Psychological Review 1977-; Prof., Rockefeller Univ. 1968-; Pres. Experimental Div., American Psychological Assn. 1958; mem. Soc. of Experimental Psychologists, Nat. Acad. of Sciences, etc.; Distinguished Scientific Contribution Award of American Psychological Assn. 1962, Warren Medal for Psychological Research 1963. *Publications:* An Experimental Study of Punishment 1944, Modern Learning Theory (with S. Koch and others) 1954, The Statistical Approach to Learning Theory 1959, Studies in Mathematical Learning Theory (with R. R. Bush) 1959, Stimulus Sampling Theory (with E. Neimark) 1967, Learning Theory and Mental Development 1970, Handbook of Learning and Cognitive Processes (ed.) 1975. *Leisure interest:* music. *Address:* The Rockefeller University, New York, N.Y. 10021, U.S.A. *Telephone:* 212-3600-1740.

ESTREICHER, Karol, PH.D.; Polish art historian; b. 4 March 1906, Cracow, Poland; s. of Stanislas and Helena Estreicher; m. Teresa Lasocka 1945 (died 1974); ed. Cracow Univ.; Asst. Lecturer, Jagiellonian Univ., Cracow 1931-39. Docent 1945-50, Assoc. prof. 1952-72, Prof. 1972-76, Prof. Emeritus 1976-, Dir. Univ. Museum 1952-76; Polish Rep. in Germany for Restitution of Looted Works of Art, Munich 1945-49; Chief Conservator of the reconstruction of Collegium Maius, Cracow 1946-64; Pres. Soc. of Friends of the Fine Arts, Cracow 1951; Editor Rocznik Krakowski; numerous decorations. *Publications:* Miniatury kodeksu Behema (The Miniatures of Behem's Codex) 1930, Tryptyk Świętej Trójcy (The Triptych of the Holy Trinity) 1936, Katalog Strat Kultury Polskiej pod Okupacją (Catalogue of Polish Cultural Losses Under the German Occupation) 1939-44, Nie Odrazu Kraków Zbudowano (Cracow wasn't built in a day) 1944, Krystianna (novel) 1957, Collegium Maius 1968, Łańcuch Aleksandry (The Chain of Princess Alexandra) 1970, Leon Chwistek (biography) 1971, An Outline of Art History (in Polish) 1973, Bartolomeo Berrecci Italian Architect in Poland 1973, Nineteenth Century Polish Bibliography 1957-73 (2nd edn.), Copernican Relics in the Jagellonian University 1973, The Collegium Maius of the Jagellonian University of Cracow 1973, G. Vasari, Lives (translation) 1978. *Address:* Jagellonian University, Ul. Gołębia 24, Cracow; 30-220 Sarnie Uroczysko 15, 30-225 Cracow, Poland. *Telephone:* 228-12 (Home).

ETAIX, Pierre; French film director and actor; b. 23 Nov. 1928, Roanne; m. Annie Fratellini 1969; ed. lycée; apprenticed as stained-glass designer; Asst. film producer 1949-55; small part in Robert Bresson's Pickpocket 1959; leading role in Jacques Tati's Jour de Fête, Paris Olympia 1960; directed first short film Rupture 1961; other short films; Heureux anniversaire 1962 (Acad. Award ("Oscar") for best short film 1963), Insomnie (First Prize, Oberhausen Festival 1965); full-length films: Le soupirant 1963 (Prix Louis Delluc, Prize for best humorous film, Moscow Festival 1963), Yoyo 1964 (Grand Prix de l'O.C.I.C., Grand Prix pour la Jeunesse, Cannes 1965), Tant qu'on a la santé 1966 (Coquille d'Argent, Saint-Sebastian Festival), Le grand amour 1969 (Grand Prix du Cinéma Français, Grand Prix de l'O.C.I.C. 1969), Les clowns 1970, Pays de cocagne 1971, Sérieux comme le plaisir 1975. *Address:* 39 rue des Vignes, 75016 Paris, France.

ETCHEVERRY, Michel Adrien; French actor; b. 16 Dec. 1919, Saint-Jean-de-Luz; s. of Paul and Marie (née Manton) Etcheverry; m. Jacqueline Hebel 1947; one s. one d.; ed. Teacher Training Coll., Gironde, Conservatoire d'Art Dramatique, Bordeaux, Conservatoire National Supérieur d'Art Dramatique; began career as teacher, Saint-Sulpice-de-Faleyrens 1940; actor with Louis Jouvet 1945-51, appearing in productions including L'école des femmes, Knock, Le Diable et le bon Dieu, Pygmalion, L'alouette, Le journal d'Anne Frank, L'annonce faite à Marie; assoc. mem. Comédie-Française 1961-63, mem. 1963-, appearing in productions including Nicomède, Cinna, Polyeucte, L'avare, Marie Stuart, Le maître de Santiago, Le Cardinal d'Espagne, La reine morte, Le Cid, Le carrosse du Saint Sacrement, La Rabouilleuse, La soif et la faim L'otage, L'école des femmes, Dom Juan, Malatesta, Le bourgeois gentilhomme, Georges Dandin, Un fil à la patte, L'impromptu de Marigny, C'est la guerre Monsieur Gruber, La nostalgie, Camarade, Le légataire universel, Le médecin malgré lui, La Célestine, La Nuit des rois, Cinna, Monsieur le Trouhadec saisi par la débauche, La poudre aux yeux; *films include:* Le fils de Caroline Chérie, Notre-Dame de Paris, Le salaire du péché, C'est arrivé à Aden, Michel Strogoff, Recours en grâce, Vers l'extase, Le passage du Rhin, Le puits aux 3 vérités, Le petit Garçon de l'ascenseur, Amours célèbres, Mathias Sandorf, Le tigre se parfume à la dynamite, Paris brûle-t-il? numerous TV appearances including Les loups, La dévotion à la croix, Quatre-vingt treize, L'île mystérieuse, Un bourgeois de Calais, Cinna, Le Cid, Le roi Lear, Le fil rouge, Un bourgeois de Paris, Georges Dandin, Le Maître de Santiago, Le deuil sied à Electre, Le légataire universel, Le jeu de l'amour et du hasard 1976; Pres. French Actors' Union 1959, Membre du Droit 1963; Chevalier de la Légion d'honneur, Chevalier des Arts et des Lettres. *Address:* 47 rue de Borrego, 75020 Paris, France.

ETE, Muhlis, PH.D.; Turkish economist; b. 23 Oct. 1904. Asst. Instructor 1930, later Asst. Prof. Faculty of Law and Econs., Istanbul Univ.; Teacher of Statistics, School of Political Science, Istanbul, and of Money and Exchange, Higher School of Commerce and Econs., Istanbul; Prof. of Business Econs., later of Gen. Principles of Econs., Ankara School of Political Science 1940-50; Min-

ister of State Enterprises 1950-51, of Econ. and Commerce 1951-52; Vice-Pres. of the Council of Europe 1953; Pres. Prime Minister's High Control Bd. 1958-61; Minister of Commerce 1962-63; mem. of Parl.; fmr. Chief Ed. Türk Ekonomisi; Pres. Turkish Econ. Assn.; Dir. School of Econs. and Commerce, Istanbul 1967. *Publications:* Transportation, Money and Exchange, Lessons in Business Economics, Administration of Temporary and Permanent Exhibits, Commerce, Banking and Exchanges, Probleme der Assozierung der Türkei mit der Europäischen Wirtschaftsgemeinschaft, and numerous translations. *Address:* Istanbul, Göztepe, Yeşil Çeşme Sok. 30/8, Turkey. *Telephone:* 554832.

ETEKI A MBUMUA, William-Aurélien, LIC. EN DROIT; Cameroonian politician; b. 20 Oct. 1933, Douala; s. of Joseph Mbumua and Mana Kutta; m. Naimi Betty Eyewe; one s. one d.; ed. Ecole Nat. de la France d'Outre-mer, Paris. Prefect for Nkam 1959, for Sanage Maritime 1960-61; Minister of Educ., Youth and Culture 1961-62; mem. Exec. Council, UNESCO 1962-68, Pres. of Conf., UNESCO 1968-70; Special Adviser, with rank of Minister, to Pres. of United Republic of Cameroon 1971-74; Sec.-Gen. OAU 1974-78; Commdr. des Palmes académiques, and many other decorations. *Publications:* Un certain humanisme 1970, Démocratiser la culture 1974, and many articles on education and African culture. *Leisure interests:* literature, poetry, painting, tennis, football, swimming. *Address:* c/o Ministry of Foreign Affairs, Yaoundé, Cameroon.

ETEMADI, Nour Ahmad; Afghan diplomatist and politician; b. 22 Feb. 1921, Kandahar; ed. Istiqlal Lyceum and Kabul Univ.; fmr. diplomatic posts in London and Washington; Econ. Section, Ministry of Foreign Affairs 1953-64, Deputy Minister of Foreign Affairs 1963, Minister 1965-71; Amb. to Pakistan 1964; Prime Minister 1967-71; Amb. to Italy 1972-73, to U.S.S.R. (also accred. to Finland and Romania) 1973-74, 1975-76, to Pakistan 1976-78; arrested 1978. *Address:* c/o Ministry of Foreign Affairs, Kabul, Afghanistan.

ETHERINGTON, Edwin Deacon, B.A., LL.B.; American attorney and executive; b. 25 Dec. 1924, Bayonne, N.J.; s. of late Charles Kenneth Etherington and Ethel Bennett; m. Katherine Colean 1953; three s.; ed. Lawrenceville School, N.J., Wesleyan Univ. and Yale Law School; Instructor and Asst. to Dean, Wesleyan Univ. 1948-49; Law Clerk, Hon. Henry W. Edgerton, U.S. Court of Appeal, Washington, D.C. 1952-53; Attorney, Wilmer and Broun, Washington, D.C. 1953-54, Milbank, Tweed, Hadley, New York City 1954-56; Sec. New York Stock Exchange 1956-58, Vice-Pres. 1958-61; Partner, Pershing Co., New York City 1961-62; Trustee, National Urban Coalition, Alfred P. Sloan Foundation, etc.; Dir. American Express Co., American Can Co., Automatic Data Processing, Inc., Norton Co., United States Trust Co. of New York, Firemans Fund Insurance Co.; Pres. American Stock Exchange 1962-66; Pres. Wesleyan University 1967-70, now Pres. Emer.; Pres. Nat. Center for Voluntary Action, Washington, D.C. 1971-72, Chair. 1972-; Counsel, Reid and Reige, P.C., Hartford, Conn. (law firm); Chair. Nat. Advertising Review Bd. 1973-74; Chair. Governor's Comm. on Services and Expenditures (for State of Conn.) 1971; mem. and official of several civic socs. and orgs.; Hon. LL.D. (Wesleyan Univ. and Amherst Coll. Mass.) 1965, (Trinity) 1967, (Amherst) 1968; Hon. L.H.D. (American Int. Coll.) 1967. *Leisure interests:* golf and other clubs. *Address:* Hobe Sound, Fla. 33455, U.S.A.

ETHRIDGE, Mark Foster; American newspaper publisher; b. 22 April 1896; ed. Univ. of Mississippi, and Mercer Univ., Georgia; began career as reporter; with New York Sun and Consolidated Press 1923-24, Associated Press 1933; Asst. Gen. Man. Washington Post 1933-34; Pres. and publisher Richmond (Va.) Times Dispatch 1934-36; Vice-Pres. and Gen. Man. Courier Journal and Louisville Times 1936-42; Publisher 1942-62, Chair. Bd. 1962-63; Vice-Pres., Editor Newsday, Long Island, N.Y. 1963-65, Consultant to Ed. and Dir. 1965-; mem. of Pres.'s Farm Tenancy Comm. 1936; elected Pres. of Nat. Assn. of Broadcasters 1938; Chair. Fair Employment Practices Comm. 1941-43; U.S. mem. of UN Comm. of Inquiry in the Balkans 1947; Chair. U.S. Advisory Comm. on Information 1948, mem. until 1951; Trustee, Ford Foundation. *Address:* Route 1, Moncure, N.C., U.S.A.

ETIANG, Paul Orono, B.A.; Ugandan diplomatist; b. 15 Aug. 1938, Tororo; s. of Kezironi Orono and Mirabu Adacat Adeke; m. Zahra A. Foum 1967; two s. one d.; ed. Busoga Coll. and Makerere Univ. Coll.; District Officer, Provincial Admin. 1962-64; Asst. Sec., Ministry of Foreign Affairs 1964-65, Third Sec. 1965-66; Second Sec., Uganda Embassy, Moscow 1966-67; First Sec. Uganda Mission to UN 1967-68; First Sec. 1968; High Commr. to U.K. 1969-71; Chief of Protocol and Marshal of Diplomatic Corps, Uganda 1971–; Perm. Sec. Ministry of Foreign Affairs 1971-73, Acting Minister of Foreign Affairs May-Oct. 1973; Minister of State for Foreign Affairs 1973-74; of State 1974-76, of Transport and Communications 1976-78, of Transport 1978-. *Leisure interests:* billiards, badminton, music, theatre. *Address:* Ministry of Transport, Kampala, Uganda.

ETIEMBLE, René, D. ÈS L.; French professor emeritus of literature and writer; b. 26 Jan. 1909, Mayenne; m. Jeannine Kohn 1963; one d.; ed. Lycée de laval, Lycée Louis le Grand Ecole Normale Supérieure and Fondation Thiers; Faculté de droit, Ecole des langues orientales; Prof. Univ. of Chicago 1937-43, Univ. of Alexandria, Egypt 1944-48, Univ. of Montpellier 1949-55; Prof. of Gen. and Comparative Literature, Univ. of Paris (Sorbonne) 1956-; Prix de la Première Pièce 1948, Prix de l'Essai, Academie Française. *Publications include:* Rimbaud (with Y. Gauclère) 1936, L'enfant de choeur 1937, Peaux de couleuvre 1948, Le mythe de Rimbaud (3 vols. 1952-61—Prix Saint Beuve 1952), Supervielle 1960, Blason d'un corps 1961, Parlez-vous franglais? 1964, Hygiène de lettres (5 vols.) 1952-67, Le nouveau singe pèlerin 1958, Le jargon des sciences 1966, Le sonnet des voyelles 1968, Retours du monde 1969, Deux "lectures" du Kyoto de Kawabata 1972, Mes contre-poisons 1974; on China: Confucius 1956, Connaissons-nous la Chine 1964, Les Jésuites en Chine 1966, Yun Yun, l'érotique chinoise 1969, Essais de littérature (vraiment) générale 1974, Quarante ans de mon maoïsme 1976, Colloque sur la traduction poétique 1978. *Address:* 4 rue de la Paletière, Vigny 28500 Vernouillet, France.

ETKIND, Efim Grigorovich; literary scholar; b. 1918, Leningrad; ed. Leningrad Univ.; served in Soviet army in World War II on Karelian & Ukrainian fronts; Candidate of Sciences 1947 (dissertation on Novels of Zola in 1860's); taught in Leningrad, later becoming Prof. at Herzen Pedagogical Inst., Leningrad; Dr. Philol. Sc. 1965 (dissertion on Theory of Translation); degrees and title of Prof. removed and expelled from Union of Writers for defence of various poets 1974; left U.S.S.R. Oct. 1974; appointed Prof. at Nanterre, Paris 1974; defended doctoral thesis at Sorbonne on Theory of Translation June 1975. numerous publications on translation incl.: Poetry & Translation 1963; Russian Poets as Translators from Trediakovsky to Pushkin 1973; Form ▬ Content (articles) (Würzburg) 1977; Notes of a Non-Conspirator (Paris, 1977, Eng. trans. 1978). *Address:* Nanterre, Université de Paris, Paris 10e, France.

ETOUNGOU, Simon Nko'o; Cameroonian diplomatist and politician; b. 14 Feb. 1932; ed. secondary and post-secondary schools, and diplomatic training in France; Head of Office in Ministry of Econ. Planning 1956-57; Cabinet Attaché, Ministry of Finance 1958-59; First Sec., Cameroon Embassy, Paris 1960; Minister-Counsellor 1960-61; Amb. to Tunisia 1961-64; led numerous Cameroon dels. 1963-64; concurrently Amb. to Algeria July-Nov. 1964, to U.S.S.R. 1964-65; Minister of Foreign Affairs 1965-66, 1968-70, Minister of Finance 1966-68; Amb. to Belgium, Netherlands and Luxembourg and Perm. Rep. to EEC 1971-; Knight of Nat. Order of Merit (Cameroon), and decorations from Senegal, Tunisia, Fed. Repub. of Germany and Gabon. *Address:* Embassy of Cameroon, 131-133 ave. Brugmann, Brussels 1060, Belgium. *Telephone:* 45-18-70.

ETTINGHAUSEN, Richard, PH.D.; American art writer and curator; b. 5 Feb. 1906, Frankfurt am Main, Germany; s. of Edmund Ettinghausen and Selma (née Stern); m. 1st Basia Grulion 1935 (died 1936), 2nd Elizabeth Sgalitzen 1945; two s.; ed. Univs. of Munich, Cambridge and Frankfurt am Main; Asst. Islamic Dept., State Museum, Berlin 1931-33; Asst. to Editor A Survey of Persian Art 1933-34; Research Assoc., American Inst. for Persian Art and Archaeology, New York 1934-37; Lecturer on Islamic Art Inst. of Fine Arts, New York Univ. 1937-38; mem. Inst. of Advanced Study, Princeton, N.J. 1937-38; Assoc. Prof. of Islamic Art, Univ. of Mich., Ann Arbor 1938-44, Research Prof. of Islamic Art 1948-; Assoc. in Near Eastern Art, Freer Gallery of Art, Smithsonian Inst., Washington, D.C. 1944-58, Curator of Near Eastern Art 1958-61; Adjunct Curator of Near Eastern Art, Los Angeles County Museum of Art, Head Curator 1961-66; Adjunct Prof. of Fine Arts, New York Univ. 1960-67, Prof. 1967-; Editor Ars Islamica 1938-54; Near Eastern Editor Ars Orientalis 1951-57, mem. Consultative Cttee. 1958-; Editorial Bd. The Art Bulletin 1940-, Kairos 1959-; Consultative Chair. Islamic Dept. Metropolitan Museum of Art, New York 1969–. *Publications:* The Unicorn (Studies in Muslim Iconography I) 1950, Paintings of the Sultans and Emperors of India in American Collections 1961, Persian Miniatures in the Bernard Berenson Collection 1961, Preface to Turkey, Ancient Miniatures 1961, Arab Painting 1962, Turkish Miniatures 1965, From Byzantine to Sasanian Iran and the Islamic World 1972; Editor and Contributor: A Selected and Annotated Bibliography of Books and Periodicals in Western Languages dealing with the Near and Middle East, with special emphasis on Medieval and Modern Times 1952, Aus der Welt der islamischen Kunst 1959. *Leisure interests:* nature walks,

hiking. *Address:* Institute of Fine Arts, New York University, 1 East 78th Street, New York, N.Y. 10021; 24 Armour Road, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 212-988-5550 (Office); 609-924-7362 (Home).

ETZDORF, Hasso von, LL.D.; German diplomatist; b. 2 March 1900; ed. Univs. of Berlin, Göttingen and Halle; held various posts at Foreign Office and diplomatic appointments in Tokyo, Rome, Genoa, etc.; Chief of German Del. to Interim Cttee. for European Defence Community (EDC), Paris 1953; Deputy Sec.-Gen. Western European Union (WEU), London 1955; Amb. to Canada 1956-58; Deputy Under-Sec. of State, Foreign Office 1958-61; Amb. to U.K. 1961-65; Hon. G.C.V.O. *Address:* 8019 Eichtling, Post Moosach, Obb., Federal Republic of Germany. *Telephone:* GLONN-08093-1402.

EVANG, Karl, M.D.; Norwegian health official; b. 19 Oct. 1902, Oslo; m. Dr. Gerda Sophie Moe 1929; one s. three d.; ed. Universitetet i Oslo; Gen. practitioner 1929-32; on staff of Municipal Hospital, Oslo 1932-34; Norwegian Govt. Service 1937-, Dir.-Gen. Norwegian Health Services 1939-72; Pres. World Health Assembly 1949; Chair. Exec. Bd. WHO 1965; Visiting Prof. Social Medicine 1973; Léon Bernard Medal and Prize, WHO 1966, Bronzman Prize, American Public Health Assen. 1970. *Publications include:* Sexual Education 1951, Health Service Society and Medicine 1958, Health Services in Norway 1960, Use and Abuse of Drugs 1966, Current Narcotic Problems 1967, Narcotics, the Generations and Society 1970, Health and Society 1974, Health Services in Norway 1976. *Leisure interests:* fishing, tennis, skiing. *Address:* Maaltrostvn 11B, Oslo 3, Norway. *Telephone:* 142460.

EVANS, Daniel Jackson, M.S.; American politician; b. 16 Oct. 1925, Seattle, Wash.; s. of Daniel Lester Evans and Irma (Ide) Evans; m. Nancy Ann Bell 1959; three s.; ed. Roosevelt High School, Seattle, and Univ. of Washington; U.S. Naval Reserve 1943-46; Lieut. on active duty Korean War 1951-53; Asst. Man. Mountain Pacific Chapter, Assoc. Gen. Contractors 1953-59; State Rep. King County 1956-64; Partner, Gray and Evans, structural and civil engineers 1959-64; Gov. Washington State 1965-77; Chair. Western Govs. Conf. 1968-69, Nat. Govs. Conf. 1973-74; mem. Advisory Comm. on Intergovernmental Relations 1972, Trilateral Comm. 1973; Keynote Speaker Republican Nat. Convention 1968; mem. Pres.'s Vietnamese Refugee Comm. 1974; mem. Nat. Center for Productivity and Quality of Working Life 1975-76; mem. Carnegie Council on Policy Studies in Higher Educ. 1977; Trustee Urban Inst. 1977, The Carnegie Foundation for the Advancement of Teaching 1977; Pres. Evergreen State Coll. 1977-; several hon. degrees; Nat. Municipal League Distinguished Citizen Award 1977. *Leisure interests:* skiing, sailing, mountain climbing. *Address:* Office of the President, Evergreen State College, Olympia, Washington 98505, U.S.A. *Telephone:* (206) 866-6100.

EVANS, Earl Alison, Jr., PH.D.; American biochemist; b. 11 March 1910, Baltimore, Md.; s. of Earl Alison Evans and Florence (Lewis) Evans; ed. Baltimore Polytechnic Inst., Johns Hopkins and Columbia Univs.; Asst. Pharmacology, School of Medicine, Johns Hopkins Univ. 1931-32, Asst. endocrine research 1932-34; Univ. Fellow in Biochemistry, Columbia Univ. 1934-36; Instructor in Biochemistry, Chicago Univ. 1937-39, Asst. Prof. 1939-41, Assoc. Prof. and Act. Chair. of Dept. 1941-42, Prof. 1942-, Chair. of Dept. 1942-72; Reserve Officer, U.S. Foreign Service, Chief Scientific Officer, American Embassy, London 1947-48; Consultant to Sec. of State 1951-53; mem. Bd. of Scientific Counsellors, Nat. Inst. of Arthritis and Metabolic Diseases, Nat. Insts. of Health 1960-63; mem. Div. Cttee. for Biological and Medical Sciences, Nat. Science Foundation 1963-66; Chair. Postdoctoral Fellowship Cttee., Div. of Biology and Agriculture, Nat. Acad. of Sciences, Nat. Research Council 1963-65; mem. Air Force Office of Scientific Research Fellowship Bd. 1966-, Advisory Bd. American Foundation for Continuing Educ. 1962-; Rockefeller Fellow, Univ. of Sheffield, England 1940-41; Fellow, All Souls Coll., Oxford 1968-69; Fellow, Pierpont Morgan Library 1969-, Welch Lecturer (Houston) 1972; mem. A.C.S. Soc. for Experimental Biology and Medicine, British Biochemical Soc., American Soc. of Biological Chemists, American Soc. of Bacteriologists; Hon. mem. Asociación Química Argentina Fellow A.A.A.S.; Eli Lilly Medal of A.C.S. 1941. *Publications:* Biochemical Studies of Bacterial Viruses 1952; co-author: Biological Symposia V 1941, Symposium of Respiratory Enzymes 1942; Editor: Biological Action of The Vitamins 1942. *Address:* 12 East Scott Street, Chicago, Illinois 60610, U.S.A. *Telephone:* 312-753-3960 (Office); MOhawk 4-4866 (Home).

EVANS, Sir Francis Edward, G.B.E., K.C.M.G., D.L.; British diplomatist; b. 4 April 1897, Canterbury; s. of Thomas Edward Evans and Amy Harriet Alwood; m. Mary Dick 1920 (died 1976); ed. Belfast Royal Acad. and London School of Economics; service, First World War; Consular Service 1920, New York 1920-26, Boston 1926-29, 1932-34, Panama 1929-32, Los Angeles 1934-39; Foreign Office 1939-43; Consul, New York 1943, Consul-Gen. 1944-50; Under-Sec. of State 1951; Minister of Israel 1951; Amb. to Israel 1952-54, to Argentina 1954-57; Deputy Chair. N. Ireland Devt. Council 1957-63; Agent, Govt. of N. Ireland in Great Britain 1962-66; Pres. of Council, Ulster 71 Festival; Hon. LL.D. (Queen's Univ., Belfast), Hon. D.C.L. (Ripon Coll., Wisconsin), Hon. D.Litt. (New Univ. of Ulster, Coleraine); Knight of St. John. *Leisure interests:* military history, painting. *Address:* 180 Upper Malone Road, Dunmurry, Belfast, N. Ireland. *Telephone:* Belfast 614188.

EVANS, Sir Geraint Llewellyn, Kt., C.B.E.; British opera singer; b. 16 Feb. 1922, Pontypridd, Wales; m. Brenda Evans Davies 1948; two s.; ed. Guildhall School of Music; prin. baritone, Royal Opera House, Covent Garden 1948-; has sung leading roles at: Glyndebourne Festival Opera, Vienna State Opera, La Scala (Milan), Metropolitan Opera (New York), San Francisco Opera, Lyric Opera (Chicago), Salzburg, Edinburgh Festival, Paris Opera, Teatro Colon (Buenos Aires), Mexico City, Welsh Nat. Opera, Scottish Opera, Berlin Opera, Teatr Wielki (Warsaw); Gov. London Opera Centre; Dir. Harlech TV; F.G.S.M.D. 1960; Hon. F.R.A.M. 1969; Hon. D. Mus. (Wales) 1965, (Leicester); Worshipful Co. of Musicians Sir Chalres Stanley Memorial Award 1963, Harriet Cohen Int. Music Award (Opera Medal) 1967. *Address:* 34 Birchwood Road, Petts Wood, Kent, England. *Telephone:* Orpington 20529.

EVANS, Harold J., PH.D.; American plant physiologist; b. 19 Feb. 1921, Franklin, Ky.; s. of James H. and Allie Evans; m. Elizabeth Dunn 1946; two d.; ed. Univ. of Kentucky and Rutgers Univ.; Asst. Prof., Assoc. Prof., Prof. of Botany, N. Carolina State Univ. 1948-61; Post-doctoral Fellow, Johns Hopkins Univ. 1952; Prof. of Plant Physiology, Oregon State Univ. 1961-, Dir. Lab. for Nitrogen Fixation 1978-; Visiting Prof. Univ. of Sussex 1967; George A. Miller Visiting Prof. Univ. of Illinois 1973; Pres. American Soc. of Plant Physiologists 1971-, mem. Bd. of Trustees 1977; mem. Nat. Acad. of Sciences, Medical Research Council 1978-; Hoblitzelle Nat. Award 1965, Oregon State Univ. Alumni Distinguished Prof. Award 1973, Univ. of Kentucky; Distinguished Alumnus award 1975. *Publications:* numerous articles in professional journals. *Address:* 2939 Mulkey Street, Corvallis, Ore. 97330, U.S.A. *Telephone:* 503-754-4214 (Office); 503-752-3227 (Home).

EVANS, Harold Matthew, M.A.; British newspaper editor; b. 28 June 1928; m. Enid Parker 1953; one s. two d.; ed. Durham Univ.; Commonwealth Fund Fellow, Univ. of Chicago 1956-57; Ed. Sunday Times, London 1967-; mem. Exec. Bd. Times Newspapers Ltd. 1968-, Dir. 1978-; Int. Press Inst. 1974-; Journalist of the Year Prize 1973, Int. Editor of the Year Award 1975. *Publications:* Active Newsroom 1964, Editing and Design, Newsman's English 1970, Newspaper Design 1971, Newspaper Headlines 1973, Newspaper Text 1973, We Learned to Ski (co-author) 1974, Freedom of the Press 1974, Pictures on a Page 1978. *Leisure interests:* music, table tennis, skiing. *Address:* c/o Sunday Times, 200 Gray's Inn Road, London, W.C.1. England. *Telephone:* 01-837 1234.

EVANS, John Robert; Canadian university administrator; b. 1 Oct. 1929; s. of William Watson Evans (deceased) and Mary Evelyn Lucille (née Thompson) (deceased); m. Jean Gay (née Glassco) 1954; four s. two d.; ed. Univ. of Toronto and Univ. Coll., Oxford; Resident in clinical medicine and Hon. Registrar, Nat. Heart Hosp., London, England 1955-56; Asst. Resident in medicine, Sunnybrook Hosp., Toronto 1956-57; Asst. Resident in medicine, Toronto Gen. Hosp. 1957-58, Chief Resident in medicine 1959-60; Ontario Heart Foundation Fellow, Hosp. for Sick Children, Toronto 1958-59; Research Fellow, Baker Clinic Research Lab., Harvard Medical School 1960-61; Markle Scholar in Academic Medicine, Univ. of Toronto 1960-65, Assoc. Dept. of Medicine 1961-65, Pres. Univ. of Toronto 1972-78; Dean, Faculty of Medicine and Prof. Dept. Medicine McMaster Univ. 1965-72, Vice-Pres. (Health Sciences) 1967-72; Chair. Nat. Health Grants, Dept. of Nat. Health and Welfare 1969-74; Pres. Assoc. of Canadian Medical Colls. 1971; Fellow, Royal Coll. of Physicians and Surgeons of Canada, American Coll. of Physicians, American Council on Clinical Cardiology; mem. numerous medical cttees. and socs. *Leisure interests:* farming, conservation. *Address:* Office of the President, University of Toronto, Toronto 5, Ontario, Canada.

EVANS, Luther Harris, PH.D.; American political scientist and librarian; b. 13 Oct. 1902, Sayersville, Tex.; s. of George Washington Evans and Lillie Johnson; m. Helen Murphy 1925; one s.; ed. Univ. of Texas and Stanford Univ.; Instructor in citizenship Stanford Univ. 1924-27, in government New York Univ. 1927-28, and in political science Dartmouth Coll. 1928-30; Asst. Prof. of Politics

Princeton Univ. 1930-35; Dir. Historical Records Survey, Work Projects Admin. 1935-39; Dir. Legislative Reference Service, Library of Congress 1939-40; Chief Asst. Librarian of Congress 1940-45, Librarian June 1945-53; Adviser UNESCO London 1945; mem. U.S. Nat. Comm. for UNESCO 1946-52 (Chair. 1952), 1959-63; Adviser or Del. to UNESCO Gen. Confs. 1947-53 (mem. Exec. Bd. 1949-53); Dir.-Gen. of UNESCO 1953-58; Sr. Staff mem. Brookings Inst., Washington D.C. 1959-61; Dir. Project on Educ. Implications of Automation, Nat. Educ. Assn., Washington D.C. 1961-62; Dir. Int. and Legal Collections Columbia Univ., New York 1962-71; Pres. World Federalists U.S.A. 1971-75; Chair. Cttee. for World Univ. 1974-; numerous hon. degrees and decorations; Democrat. *Publications:* The Virgin Islands from Naval Base to New Deal 1945, Automation and the Challenge to Education 1962, Federal Department Libraries 1963, The Decade of Development: Problems and Issues 1966, The U.S. and UNESCO 1971. *Leisure interests:* reading, travel. *Address:* 209 Harriet Drive, San Antonio, Tex. 78216, U.S.A. (Home).

EVANS, Maurice; American actor-manager; b. 3 June 1901, Dorchester, Dorset, England; s. of Alfred Herbert and Laura Evans; ed. Grocers' Company School, London; in America 1936-; U.S. Army 1942-45; Artistic Supervisor, New York City Center Theatre 1949-51; Pulitzer and Critics Prizes for production of Teahouse of the August Moon 1953. *Plays acted in include:* Richard II, Hamlet 1938-39, Henry IV, Part I 1939, Twelfth Night 1940-41, Macbeth 1941-42, Hamlet 1945-47; produced and acted in Man and Superman 1947-49, The Browning Version 1949, The Devil's Disciple 1950, Richard II 1951, Dial "M" for Murder 1952-54, The Apple Cart 1956-57, Heartbreak House 1959-60, Tenderloin (musical) 1960-61, The Aspern Papers 1961-62, Shakespeare Revisited, A Program for Two Players (with Helen Hayes) 1962-63. Films include Kind Lady 1950, Androcles and the Lion, Gilbert and Sullivan, Macbeth 1960, Warlord 1965, Jack of Diamonds, Planet of the Apes 1967, Rosemary's Baby, Thin Air 1968, Beneath the Planet of the Apes 1970. *Address:* c/o Charles H. Renthal and Co., 641 Lexington Avenue, New York, N.Y. 10022, U.S.A.

EVANS, Mostyn (Moss); British trade unionist; b. 13 July 1925; m. Laura Bigglestone 1947; three s. three d.; ed. Church Road Secondary Modern School, Birmingham; Union Official, Transport and Gen. Workers' Union: District Officer, Chemical and Eng. Industries, Birmingham 1956; Regional Officer, Midlands 1960, Nat. Officer, Eng. 1966; Nat. Sec. Chemical, Rubber and Oil Industries 1969, Eng. Industries 1969, Automotive Section 1969-73; Nat. Organizer T.G.W.U. 1973-78, Gen. Sec. T.G.W.U. March 1978-; mem. TUC Gen. Council 1977-, Int. Cttee. of TUC 1978-, British Overseas Trade Bd. 1978-. *Address:* 6 Highland Drive, Hemel Hempstead, Herts., England. *Telephone:* Hemel Hempstead 57503.

EVANS, Russell Wilmot, M.C., LL.B.; British business executive; b. 4 Nov. 1922, Birmingham; s. of William Henry Evans and Ethel Williams Wilmot; m. Pamela Muriel Hayward 1956; two s. one d.; ed. King Edward's School, Birmingham, Univ. of Birmingham; infantry co. commdr. in Italy during war service; qualified as solicitor 1949; Asst. Sec. at Harry Ferguson 1951, Sec. of Massey-Ferguson (Holdings) and its U.K. subsidiaries after merger of Ferguson and Massey-Harris, resgnd. 1962; on Parent Bd. of group of private companies in construction industry; joined Rank Org. 1967, Deputy Sec. 1967-68, Sec. 1968-72, Dir. 1972-, Man. Dir. 1975-; Dir. of principal subsidiary and assoc. cos., incl. Rank Xerox, Fuji Xerox and Southern Television; Chair. Butlin's, Rank City Wall. *Leisure interests:* tennis, squash, photography. *Address:* Walnut Tree, Roehampton Gate, London, S.W.15, England.

EVANS OF HUNGERSHALL, Baron (Life Peer) cr. 1967, of the Borough of Royal Tunbridge Wells; **B. Ifor Evans,** M.A., D.LIT., F.R.S.L.; British writer and educationist; b. 19 Aug. 1899, London; s. of Benjamin Evans; m. Marjorie Measures 1923; one d.; ed. Stationers' Co. School and Univ. Coll., London; Lecturer in English Literature, Manchester Univ. 1921-24, Prof. of English Language and Literature, Univ. Coll. Southampton 1925-26; Prof. of English Literature, Sheffield Univ. 1926-33; Albert Kahn Travelling Fellowship 1924; Univ. Prof. of English Language and Literature, Queen Mary Coll. Univ. of London 1933-44, Principal 1944-51; Provost of Univ. Coll. London 1951-66; Fellow Univ. Coll. London; Vice-Chair. Arts Council 1946-51; Vice-Pres. Royal Soc. of Literature 1974, Chair. 1975-77; with Ministry of Information 1939-41; Educational Dir. to British Council 1941-44; Public Orator, Univ. of London 1947-52; mem. of Exec. British Council 1950-54; Chair. Observer Trustees 1957-66, Nat. Insurance Advisory Cttee. 1957; Trustee of the British Museum; Consultant Wates Foundation; Chair. Rediffusion Educational Council, Educational Advisory Council—Thames TV, Cassel Trust; Hon. LL.D. (Univ. of Manchester); Officer Legion of Honour (France), Knight of the Order of the Crown (Belgium), Commdr. of the Order of Orange Nassau. *Publications:* William Morris and his Poetry 1924, Encounters 1926, Keats and the Chapman Sonnet 1930, English Poetry in the Later Nineteenth Century 1933, The Limits of Literary Criticism 1933, Keats 1934, Romanticism and Tradition 1939, A Short History of English Literature 1940, In Search of Stephen Vane 1946, The Shop in the King's Road 1947, Literature Between the Wars 1947, Short History of British Drama 1948, The Church in the Markets 1948, The Arts in England (with Mary Glasgow) 1948, The Use of English 1949, A Victorian Anthology (with Marjorie R. Evans) 1949, The Language of Shakespeare's Plays 1951, Literature and Science 1954, English Literature: Values and Traditions 1962. *Address:* 1317 Minster House, St. James Court, Buckingham Gate, London, S.W.1, England.

EVENSEN, Jens, LL.D.; Norwegian lawyer and politician; b. 5 Nov. 1917, Oslo; s. of Jens Evensen and Victoria Bjerkaas; m. Sylvei Brun Lie 1943; two s.; ed. law schools and Harvard Univ., U.S.A.; Jr. partner, law firm 1941-45; Legal Counsel to Solicitor-Gen. 1948-49; Advocate, Supreme Court 1951; Rockefeller Fellowship 1952-53; Dir.-Gen. Legal Dept., Ministry of Foreign Affairs 1961; Chair. Norwegian Petroleum Council 1964-, Fishery Limits Comm. 1967-69, many other cttees.; Amb. for negotiating Trade Agreement with European Communities 1972; Minister of Commerce 1973-74, of Law of the Sea 1974-79. *Leisure interests:* sailing, skiing. *Address:* c/o Ministry for Foreign Affairs, Oslo; Lindlandvn. 15, Vollen Asker, Oslo, Norway (Home).

EVERINGHAM, Douglas Nixon, M.B., B.S.; Australian politician and medical practitioner; b. 25 June 1923, Wauchope, N.S.W.; s. of Herman Clifford and Hilda Mary Everingham; m. Beverley May Withers 1948; one s. two d.; ed. Fort Street School, Univ. of Sydney; Resident Medical Officer in gen. and mental hospitals 1946-53; gen. practice 1953-67, 1976-77; mem. House of Reps. 1967-75, 1977-; Minister for Health 1972-75; Opposition spokesman on Aboriginal Affairs and Northern Australia 1977-; Vice-Pres. World Health Assembly 1975-76. *Publications:* Chemical Shorthand for Organic Formulae 1943, Critique of Bliss Symbols 1956, Braud Inglish Speling 1966. *Leisure interests:* semantics, interlinguistics, pasigraphy, spelling reform, humanism. *Address:* Parliament House, Canberra, A.C.T.; 50 Corberry Street, Rockhampton, Queensland 4700; 63 Denham Street, Rockhampton, Queensland, Australia. *Telephone:* Rockhampton 24408/276455.

EVERTON, John Scott, B.A., B.D., PH.D., D.D.; American educationist and diplomatist; b. 7 March 1908; ed. Colgate-Rochester Divinity School, Yale Univ. and Cambridge Univ.; Minister, Central Baptist Church, Pennsylvania 1937-41; Dean of Chapel and Prof. Philosophy and Religion, Grinnell Coll. 1941-49; Pres. Kalamazoo (Mich.) Coll. 1949-53; rep. Ford Foundation, Burma 1953-56, Exec. Assoc., New York 1956-59, Assoc. Dir. Int. Training and Research Program 1959-61; former Lecturer, External Examiner in Philosophy, Univ. of Rangoon; Amb. to Burma 1961-63; Vice-Pres. Educ. and World Affairs 1963-68; Exec. Dir. of the Overseas Educational Service 1963-68; Pres. Robert Coll., Istanbul, Turkey 1968-72; Chair. Burma Council Exec. Cttee. of the Asia Soc. 1963-; Rep. The Rockefeller Foundation, Indonesia 1972-; mem. numerous cttees.; Hon. D.D. (Grinnell Coll.) 1949, Hon. LL.D. (Redlands) 1963, Hon. D.Hum.Litt. (Chattanooga) 1964. *Address:* P.O. Box 63, Jogjakarta, Indonesia.

EVRON, Ephraim; Israeli diplomatist; b. 12 June 1920, Haifa; m. Rivka Passman 1943; one s. one d.; ed. Haifa Reali School, Hebrew Univ., Jerusalem; served with British Army in Middle East 1941-46, Israel Defence Force 1948-49; Political Sec. to Foreign Minister 1949-51; Sec. to Prime Minister 1951-52; Second Sec., Washington Embassy 1953, Exec. Asst. to Defence Minister 1954-55; with Israeli Fed. of Labour 1957-61; Counsellor, then Minister, Embassy to London 1961-65, Washington 1965-68; Amb. to Stockholm 1968-69, to Ottawa 1969-71; Asst. Dir. Gen., Ministry of Foreign Affairs 1972-73, Deputy Dir. Gen. 1973-77, Dir. Gen. 1977.78; Amb. to U.S.A. 1978-. *Address:* Embassy of Israel, 1621 22nd Ave., N.W., Washington D.C. 20008, U.S.A. *Telephone:* 483-4100.

EWALD, Paul P., F.R.S.; British physicist; b. 23 Jan. 1888, Berlin; m. Ella Philippson 1913; two s. two d.; ed. Univs. of Cambridge, Göttingen and Munich; Lecturer in Theoretical Physics, Univ. of Munich 1918-21; Prof. of Theoretical Physics, Technische Hochschule Stuttgart 1921-37; Research Fellow, Univ. of Cambridge 1937-39; Lecturer, later Prof. in Mathematical Physics, Queen's Univ., Belfast 1939-49; Head, Dept. of Physics, Polytechnic Inst. of Brooklyn 1949-57, Prof. 1957-59, Prof. Emer. 1959-; Corresp. mem. Akad. der Wissenschaften, Göttingen, Bayerische Akad. der Wissenschaften; mem. American Acad. of Arts and Sciences, Deutsche Akad.

der Naturforscher (Leopoldina); Hon. mem. Soc. Française de Minéralogie et de Cristallographie, Deutsche Mineralogische Gesellschaft, Cambridge Philosophical Soc.; Dr. h.c. (Stuttgart, Paris, Adelphi, Munich and Polytechnic Inst. of Brooklyn). *Publications:* Kristalle und Röntgenstrahlen 1923, Fifty Years of X-Ray Diffraction 1962. *Address:* 108 Sheldon Road, Ithaca, N.Y. 14850, U.S.A.

EWALDSEN, Hans Lorenz, DIPL.SC.POL.; German business executive; b. 6 Sept. 1923, Lunden, Schleswig Holstein; s. of Lorenz and Marie (née Kröger) Ewaldsen; m. Marianne Paulsen 1951; two s.; ed. Univ. of Kiel; mem. Man. Bd., Deutsche Babcock AG 1960, Chair. 1967-, Pres. and First Exec. Officer 1977-. *Leisure interests:* hunting, tennis. *Address:* Deutsche Babcock AG, 4200 Oberhausen, Duisburger Strasse 375, Federal Republic of Germany.

EWERTSEN, Harald Wind; Danish ear, nose and throat specialist; b. 17 April 1913, Hjorring; m. Bodil Knipschildt 1942; three s. two d.; ed. Københavns Universitet; Doctor's dissertation, Univ. of Copenhagen 1946; Ear, nose and throat specialist 1949; Dir. State Hearing Rehabilitation Centre of Copenhagen 1951-; Asst. Prof. Danmarks Larerhojskole 1965-76; Vice-Pres. Int. Soc. of Audiology 1962-66; Pres. Danish Medical Audiological Soc. 1967-72; Danish rep. in EEC working group on deafness 1973-76; Co-ed. International Audiology 1962-66; Vald. Klein Prize 1974; many specialist publs. *Leisure interests:* magic conjuring tricks, horse-riding, photography. *Address:* 208 Virum Stationsvej, Virum, Denmark. *Telephone:* 02-85-6100.

EXETER, 6th Marquess of; **David George Brownlow Cecil,** K.C.M.G., LL.D., D.L., J.P.; British politician, businessman and sportsman; b. 9 Feb. 1905; s. of the 5th Marquess of Exeter, K.G., C.M.G.; m. 1st Lady Mary Theresa Montagu-Douglas Scott 1929 (dissolved 1946), three d.; m. 2nd Diana Mary Forbes (née Henderson) 1946, one d.; ed. Eton Coll., Magdalene Coll., Cambridge; winner Olympic 400 metres hurdles 1928, three British Empire and eight British championships, etc.; Conservative M.P. 1931-43; Parl. Private Sec. to Parl. Sec. Minister of Supply 1939-41; Lt.-Col., Asst. Dir. Tank Supply 1941; Controller Repairs and Overseas Supplies of Aircraft, Ministry of Aircraft Production 1941-43; Gov. and Commdr.-in-Chief, Bermuda 1943-45; Chair. Organizing and Exec. Cttee. of 1948 Olympic Games, London; Rector, St. Andrews Univ. 1949-52; Leader of U.K. Industrial dels. to Pakistan 1950, and Burma 1954; Pres. Radio Industry Council 1952; Mayor of Stamford 1961; Pres. Amateur Athletic Assn. 1936-76, Int. Amateur Athletic Fed. 1946-75, British Olympic Assn. 1966-77 (Chair. 1963-66); mem. Int. Olympic Cttee. 1933-, Vice-Pres. 1952-66; Pres. British Horse Soc. 1963; Chair. Empire Chambers of Commerce 1952-54, Birmid Qualcast Ltd.; Dir. Nat. Westminster Bank, Firestone Tyre & Rubber Co., Lands Improvement; Pres. British Travel Assn. 1966-69; Hereditary Grand Almoner; Hon. LL.D., Hon. F.R.C.S. *Address:* Burghley House, Stamford, Lincolnshire, England. *Telephone:* Stamford 3131.

EXLEY, Charles Errol, Jr., M.A., M.B.A.; American business executive; b. 14 Dec. 1929, Detroit, Mich.; s. of Charles Errol and Helen Margaret (Greenizen) Exley; m. Sara Elizabeth Yates 1952; one s. two d.; ed. Wesleyan Univ., Middletown, Conn., Graduate School of Business, Columbia Univ., New York, N.Y.; Financial Analysis Dept., Burroughs Corpn. 1954-56, Asst. to Controller 1956-57, Supervisor of Operations Analysis 1957-60, Controller of Office Products Group 1960-63, Controller 1963-66, Vice-Pres. and Group Exec., Office Products Group 1966-71, Vice-Pres. Finance 1971-73, Exec. Vice-Pres. Finance, and Dir. 1973-76; Pres. NCR Corpn., Dir. and mem. Exec. Cttee. 1976-. *Leisure interest:* sailing. *Address:* NCR Corporation, 1700 Patterson Boulevard, Dayton, Ohio 45479, U.S.A.

EXON, John James; American politician; b. 9 Aug. 1921, Geddes, S. Dakota; s. of John J. and Luella (Johns) Exon; m. Patricia Pros 1943; one s. two d.; ed. Univ. of Omaha; Vice-Chair., Neb. State Democratic Cen. Cttee. 1964-68; mem. Neb. Democratic Party Exec. Cttee. 1964-; Neb. Democratic Nat. Cttee. Man 1968-70; Gov. of Nebraska 1971-79; Senator 1978-; mem. Lincoln Chamber of Commerce, Nat. Stationers and Office Equipment Assn. *Address:* Senate Office Building, Washington D.C.; 1615 Brent Boulevard, Lincoln, Neb. U.S.A. (Home). *Telephone:* 202-224-3121 (Office).

EYADÉMA, Gen. (Etienne) Gnassingbe; Togolese army officer and politician; b. 26 Dec. 1937, Pya, Lama Kara District; served with French Army 1953-61, especially in Indo-China, Dahomey, Niger and Algeria; commissioned 1963; Army Chief of Staff (Togo) 1965-; led army coup Jan. 1967; Pres. of Togo and Minister of Defence April 1967-; f. Rassemblement du Peuple Togolais, Paris 1969, Pres. 1969-; Grand Officier, Ordre National de Mono, Mil. Cross, Chevalier, Légion d'honneur (France). *Leisure interest:* hunting. *Address:* Présidence de la République, Lomé, Togo.

EYRING, Henry, M.S., PH.D.; American professor of chemistry; b. 20 Feb. 1901, Colonial Juarez, Chihuahua, Mexico; s. of Edward Christian and Caroline Romney Eyring; m. 1st Mildred Bennion 192° (died 1969), 2nd Winifred Brennan 1971; three s. four d.; ed. Un[illegible]. of Arizona, Univ. of California; Instructor in Chem., Univs. of [illegible]riz. and Wis. 1924-28; Research Assoc. Univ. of Wis. 1928-29; Na[illegible] Research Fellow, Kaiser Wilhelm Inst., Berlin 1929-30; Lectur[illegible]r in Chem., Univ. of Calif. 1930-31; Asst. and Assoc. Prof. of Ch[illegible]m., Princeton Univ. 1931-38, Prof. 1938-46; Dean of Graduate Sch[illegible]ol Univ. of Utah 1946-66, Distinguished Prof. of Chem. and Me[illegible]allurgical Eng. 1966-; research work for the Army, Navy and Office of Scientific Research and Devt. on the theory of smokes and of high explosives, during Second World War; Dir. of the fundamental research programme of the Textile Foundation, Princeton 1944-46; Ed. of Annual Reviews of Physical Chem.; mem. of numerous acads. including U.S. Acad. of Arts and Sciences, A.A.A.S. (Pres. 1965, Dir. 1961-66), A.C.S. (Pres. 1963), American Phil. Soc. Rheology (Vice-Pres. 1946); Hon. D.Sc., Utah State Univ., Univ. of Ariz. 1971, Univ. of Notre Dame 1969, Marquette Univ. 1969, Seoul Nat. Univ. 1963, Princeton Univ. 1956, Northwestern Univ. 1953 numerous awards including Nat. Medal of Science 1966, Joseph Priestley Medal, A.C.S. 1975. *Publications with others:* The Theory of Rate Processes 1941, Quantum Chemistry 1944, The Kinetic Basis of Molecular Biology 1954, Modern Chemical Kinetics 1963, Statistical Mechanics and Dynamics 1964, Significant Liquid Structures 1969, The Theory of Optical Activity 1971, The Theory of Rate Processes in Biology and Medicine 1974, Deformation Kinetics 1975, and over 580 papers in national scientific journals. *Leisure interests:* application of quantum mechanics and statistical mechanics; theory of reaction rates, theory of liquids, molecular biology, rheology, radioactivity, optical rotation, theory of flames, ageing and cancer. *Address:* Department of Chemistry, University of Utah, Salt Lake City, Utah 84112; 2035 Herbert, Salt Lake City, Utah, U.S.A.

EYSENCK, Hans Jurgen, PH.D., D.SC.; British psychologist; b. 4 March 1916, Berlin, Germany; s. of Eduard Eysenck and Ruth Werner; m. Sybil Bianca Giuletta Rostal 1950; four s. one d.; ed. Univ. of Dijon, Exeter and London; Research Psychologist, Mill Hill Emergency Hospital 1942-45; Psychologist, Maudsley Hospital, London 1945; Reader and Dir., Psychological Dept., Inst. of Psychiatry, Univ. of London 1950-55, Prof. of Psychology 1955-. *Publications:* Dimensions of Personality 1947, The Scientific Study of Personality 1952, The Structure of Human Personality 1953, Uses and Abuses of Psychology 1953, The Psychology of Politics 1954, Sense and Nonsense in Psychology 1956, The Dynamics of Anxiety and Hysteria 1957, Perceptional Processes and Mental Illness 1957, Manual for the Maudsley Personality Inventory 1959, Experiments in Personality (2 vols.) 1960, Behaviour Therapy and the Neuroses 1960, Handbook of Abnormal Psychology 1960, Manual for the Eysenck Personality Inventory 1963, Experiments with Drugs 1963, Crime and Personality 1964, Experiments in Motivation 1964, Causes and Cures of Neuroses 1965, Experiments in Behaviour Therapy 1965, Fact and Fiction in Psychology 1965, Smoking, Health and Personality 1965, The Biological Basis of Personality 1967, Structure and Measurement of Personality 1969, The Structure of Human Personality 1970, Readings in Introversion/Extraversion 1971, Race, Intelligence and Education 1971, Psychology is about People 1972, Encyclopaedia of Psychology (ed.) 1972-, Measurement of Intelligence 1973, Experimental Study of Freudian Theories 1973, The Inequality of Man 1973, Eysenck on Extraversion 1973, Case Histories in Behaviour Therapy 1975, Know Your Own Personality (with Glenn Wilson) 1975, Textbook of Human Psychology 1976, Sex and Personality 1976, The Measurement of Personality 1976, Psychoticism as a Dimension of Personality 1976, Reminiscience 1977, You and Neurosis 1977, Sex, Violence and the Media (with D.K. Nias) 1978. *Leisure interests:* tennis, squash, photography. *Address:* Department of Psychology, Institute of Psychiatry, Maudsley Hospital, Denmark Hill, London, S.E.5; 10 Dorchester Drive, London, S.E.24, England (Home).

EYSKENS, Viscount Gaston, M.S., DR. RER. POL., DR. SC.COM., LIC. SC.ECON.; Belgian economist and politician; b. 1 April 1905, Lierre, Prov. of Antwerp; ed. Univ. of Louvain and Columbia Univ.; Prof. Univ. of Louvain 1931; Cabinet Dir., Ministry of Labour 1934-35; M.P. 1939-73; Minister of Finance 1945, 1947-49, 1965-66; Gov. Int. Bank for Reconstruction and Devt. 1947-49; Prime Minister 1949, 1958-61, 1968-72; Minister of Econ. Affairs 1950; Ministre d'Etat 1963-; Vice-Pres. Econ. and Social Council UN 1951; Pres. Kredietbank, Antwerp; Hon. Dr. Econ. (Cologne), Hon. Dr. of Laws (Columbia), Hon. Dr. Phil, (Jerusalem); mem. Christian Social Party. *Publications:* Le port de New York dans son rôle économique 1929, De Arbeider en de Bedrijfsleiding in Amerika 1931, La

conjoncture économique du Congo belge 1934, Les finances publiques belges 1955, Economische Theorie en Economische Politiek 1956, Geld en Financiewezen 1956, etc. *Leisure interests:* landscape and portrait painting. *Address:* Kredietbank N.V., Torengebouw, 2000 Antwerp, Belgium.

EYTAN, Walter; M.A.; Israeli political consultant; b. 24 July 1910, Munich, Germany; s. of Dr. Maurice Leon Ettinghausen and Hedwig Kahn; m. Beatrice Levison; two s. one d.; ed. St. Paul's School, London, and Queen's Coll., Oxford; Lecturer in German, Queen's Coll., Oxford 1934-46; Princ., Public Service Coll., Jerusalem 1946-48; Dir.-Gen. Ministry Foreign Affairs, Israel 1948-59; Amb. to France 1960-70; Political Adviser to Foreign Minister 1970-72; Chair. Israel Broadcasting Authority 1972-78; Trustee, Chair. Bd. of Man. Museum of Islamic Art, Jerusalem; Chair. Assen. France-Israel, Jerusalem; mem. Bd. of Trustees, Haifa Univ.; Commdr. Légion d'honneur 1976. *Publication:* The First Ten Years 1958. *Address:* 18 Rehov Balfour, Jerusalem, Israel. *Telephone:* 02-331268.

EYUBOĞLU, Bedri Rahmi; Turkish painter and poet; b. 1913; ed. Acad des Beaux Arts, Constantinople, and André Lhote Atelier, Paris; exhibited in Turkey with advanced painters' Group D 1933-37; influenced by Anatolian handicraft designs 1941-45; worked on block printing, serigraphy, engraving and textile printing 1945-50; mosaic work since 1957; Ford Foundation Grant for travel in Europe and U.S.A. 1961-63; Prof. Acad. of Fine Arts, Istanbul; exhbns. in several cities of Europe and U.S.A.; has also written poems, essays and travel notes in books, magazines and newspapers; Prize at São Paulo Biennale 1956, Gold Medal, Brussels Fair 1958. *Major works:* Panel at Brussels Fair 1958, Mosaic panel for NATO Bldg. in Paris 1959, Christmas Card for UNICEF 1961, mosaic murals in Ankara, Izmir and Istanbul 1963-65. *Address:* 29/3 Manolya Sokak, Kalamis, Kiziltoprak, Istanbul, Turkey.

EZRA, Sir Derek, Kt., M.B.E.; British business executive; b. 23 Feb. 1919; s. of David and Lillie Ezra; m. Julia Elizabeth Wilkins 1950; ed. Monmouth School and Magdalene Coll., Cambridge; mil. service 1939-47; rep. of Nat. Coal Bd. at Cttees. of OEEC and ECE 1948-52; mem. U.K. Del. to High Authority of European Coal and Steel Community 1952-56; Regional Sales Man. Nat. Bd. 1958-60, Dir.-Gen. of Marketing 1960-65; mem. Nat. Coal Bd. 1965-, Deputy Chair. 1965-71, Chair. 1971-; Chair. British Inst. of Man. 1976-78, Vice-Chair. 1978-; Deputy Chair. CBI Overseas Cttee. 1975-; Chair. CBI Europe Cttee., European Trade Cttee. of the British Overseas Trade Bd.; Pres. Nat. Materials Handling Centre 1978-; mem. British Overseas Trade Bd., U.K. Energy Comm. 1977-. *Publication:* Coal and Energy 1978. *Address:* The National Coal Board, Hobart House, Grosvenor Place, London, S.W.1, England. *Telephone:* 01-235 2020 (Office).

F

FABBRI, Diego; Italian playwright; b. 2 July 1911. fmr. lawyer; Nat. Theatre Prize for Inquisizione 1950; Marzotto Int. Prize for Portrait of a Young Man. *Plays include:* Orbite 1941, Paludi 1942, La Libreria del Sole 1943, Inquisizione 1950, Rancore 1950, Il Seduttore 1951, Processo di famiglia 1954, Processo a Gesù 1955, La Bugiarda 1956, Veglia d'armia 1957, Delirio 1958, Figli d'arte 1959, Processo Karamazov 1961, Portrait of a Young Man 1962, The Confidant 1964, libretto for L'Avventuriero 1968. *Address:* Santa Prisca 15, Rome, Italy.

FABIANI, Dante Carl; American industrialist; b. 13 Aug. 1917, Waterbury, Conn.; s. of Rosato Fabiani and Barbara Poscente; m. Virginia Parnham 1944; one s. two d.; ed. Tri-State Coll. and Purdue Univ.; Auburn Rubber Corpn., Ind. 1938-42; Gen. Electric Co., Ind. 1942-45; Continental Can Co., Ohio 1945-47; Controller, Asst. Man. Standard Products Co. Ohio, 1948-51; Dir., Sec.-Treas. Townsend Co., Pa. 1951-59; Vice-Pres. Finance, H. K. Porter Co. Inc. 1959-60; Dir., Vice-Pres. Finance, McDonnell Aircraft Corpn., Missouri 1960; Pres. and Dir. Crane Co., New York 1960-; Dir. Sawhill Tubular Products 1967-; Chair. C.F.I. Steel Corpn. 1970-. *Address:* 300 Park Avenue, New York, N.Y. 10022; 15 North Avenue, Westport, Conn., U.S.A. (Home).

FABIANI, Simonetta (*see* under Simonetta).

FABRE, Robert; French pharmacist and politician; b. 21 Dec. 1915, Villefranche de Rouergue; s. of Georges Fabre and Louise Feille; m. Christiane Dutilh 1942; ed. Faculté de Médecine et Pharmacie de Toulouse. Mayor of Villefranche de Rouergue, Aveyron 1953; Conseiller Général for Aveyron 1955; mem. Parl. for Aveyron 1962-; Vice-Pres. Regional Council for Midi-Pyrénées 1974; Pres. Mouvement des Radicaux de Gauche 1972-78; (study on unemployment commissioned by Pres.) Chargé de Mission 1978-; Palmes académiques; Médaille de Jeunesse et des Sports; Chevalier de la Santé publique; Officier, Ordre Nat. du Sénégal. *Publications:* Quelques baies de genièvre 1976, Toute vérité est bonne à dire 1978. *Leisure interest:* painting. *Address:* 13 rue Marcellin Fabre, 12200 Villefranche de Rouergue, France. *Telephone:* 45-09-47 (Villefranche).

FÁBRI, Zoltán; Hungarian film director; b. 1917; ed. grammar school, Acad. of Fine Arts, Budapest, and Acad. of Dramatic Art, Budapest; fmr. painter, later actor at Nat. Theatre 1941; Army Service, Second World War; joined Artists' Theatre, Budapest, after Second World War; later Head of Youth Theatre; joined State Film Production Org. 1950, film dir. 1952-; Chair. Union of Hungarian Film Artists; Grand Prix, Carlovy-Vary Film Festival for Professor Hannibal 1956; Grand Prix, Moscow Film Festival for Twenty Hours 1965, Kossuth Prize 1953, 1955, 1970. *Films:* The Storm 1952, Fourteen Lives Saved 1954, Merry-Go-Round 1955, Professor Hannibal 1956, April Fool 1957, Anna 1958, The Brute 1960, Two Half-Times in Hell 1961, Darkness in Daytime 1963, Twenty Hours 1965, Late Season 1967, Boys of Pal-Street 1969, The Unfinished Sentence 1975. *Address:* c/o Hungarofilm, H-1054 Budapest 5/5, Báthori-utca 10, Hungary. *Telephone:* 116-650.

FABRICIUS, Johan; Netherlands writer; b. 1899, Bandung, Java; s. of Jan Fabricius and Minke Dornseiffen; m. 2nd Anna Bleeker 1968; two s. one d. (from previous marriage); ed. Batavia, Leyden, and The Hague; fmr. war corresp. on Austro-Italian front; BBC and The Times corresp. in Indonesia 1945-46. *Publications include:* De scheepsjongens van Bontekoe 1924, Hans de klokkeluider (play) 1925, Het meisje met de blauwe hoed 1927, Charlotte's grote reis 1928, Mario Ferraro's ijdele liefde 1929, Komedianten trokken voorbij 1931 (awarded Van der Hoogt Prize 1932), Melodie der verten 1932, Leeuwen hongeren in Napels 1934, De dans om de galg 1934, Flipje 1936, Kasteel in Carinthië 1938, Eiland der Demonen 1940, Nacht over Java 1942, De kraton 1945, Halfbloed 1946, Hoe ik Indie terugvond, Hotel Vesuvius 1947, De Grote Geus 1948, De Grote Beproeving 1950, Mijn Huis staat achter de Kim (memoirs) 1951, De Ontvoering van Europa 1952, Langs de Leie 1952, Een Wereld in Beroering (memoirs) 1952, Gordel van Smaragd 1953, De Nertsmantel 1953, Het Duistere Bloed (play) 1953, Idylle 1871 (play) 1953, Toernooi met de Dood 1954, Nacht zonder Zegen 1955, Setoewo de Tijger 1956, Nuit Maudite, Die heiligen Pferde, Ma Rosalie, Hopheisa in regen en wind (memoirs) 1964, Wat u nodig hebt, mevrouw, is een vriend 1964, Dag Leidse Plein 1965, Dromen is ook leven 1965, Weet je nog, Yoshi? 1966, Wij Tz'e Hsi, Keizerin van China 1967, Het Water Weet van niets 1968, Wittebroodsweken met Mama 1969, Voorrijden, mevrouw? 1969, Shock Treatment (play) 1969, Onder de hete Caraibische zon (short stories) 1970, De kop van Jut 1970, Sentimental Journey 1971, Met klein orkest 1971, De duivel in de toren 1971, Partnerruil niet uitgesloten 1972, Hanneke's Bruiloft 1972, Carlinho, mijn kleinzoon 1973, Het gordijn met de ibissen 1974, Het Portret 1974, Barcarolle 1975, De wijze Goeroe's van Benares 1975, De Oorlog van de kleine paardjes 1975, Er ziin geen echte gekken meer in Capri 1976, Gringo, een reis naar Paraguay in 1922 1976, Dipanegara, de Java-oorlog 1825/30 1977, Toontje Poland 1977, De Schreeuw van de witte kakatoe 1978, Spelevaren met een Sultan 1978, Toontje Poland onder de tropenzon 1978, De zwaluwen van Klapanoenggal 1979, De hoed met de Struisveer 1979. *Address:* Uitgeveriji Leopold N.V., Badhuisweg 232, The Hague; 15 Meentweg 1, Glimmen (gem. Haren, Groningen), Netherlands. *Telephone:* 05906-1606.

FACIO SEGREDA, Gonzalo J.; Costa Rican lawyer and diplomatist; b. 28 March 1918, San José; s. of Gonzalo D. Facio and María Teresa Segreda de Facio; m. Ana Franco de Facio 1953; one s. five d.; ed. Univ. de Costa Rica, New York Univ. School of Law, and Inst. of Inter-American Law, New York; founding mem. Facio & Cañas (law firm); Prof. Philosophy of Law, Univ. de Costa Rica 1944-47, Prof. Admin. Law 1947-51, 1959-62, Prof. Econ. and Social Org. 1959-61; founder mem. Partido de Liberación Nacional 1948, mem. Exec. Cttee. 1948-56, Chair. Planning Bd. 1959-62; Amb., Rep. to OAS 1956-58, 1962, Vice-Chair. Council 1957-58, Chair. 1963-64; Amb. to U.S.A. 1962-66; Minister of Foreign Affairs 1970-78; Head del. to 12 UN Gen. Assemblies; Pres. Security Council, UN Jan. 1974, March 1975; Ed. Surco (Magazine) 1942-45, Acción Democrática (weekly) 1945-48, La República (daily) 1955-56; *Publications:* The Living Constitution 1976, Meditations on the Bicentennial Celebration 1976, Our Voice in the World 1977, Economic and Social Human Rights 1979. *Address:* c/o Facio & Cañas, P.O.Box 5173, San José; 3155 Avenida 13, San José, Costa Rica (Home).

FACK, Robbert; Netherlands diplomatist; b. 1 Jan. 1917, Amsterdam; m. Patricia H. Hawkins 1943; four s.; ed. Univ. of Amsterdam; military service 1937-45; entered diplomatic service 1945; served in Ministry of Foreign Affairs and UN 1946-48, Rome 1950-54, Canberra 1954-58; Minister Plenipotentiary, Bonn 1958-63; Amb. at Large 1968-70; Perm. Rep. to UN 1970-74; Amb. to U.K. and Rep. to WEU 1976-; Head dels. to int. confs.; decorations include Kt. Netherlands Lion, Officer Order of Orange-Nassau, Kt. (military div.), Croix de guerre avec Etoile d'Argent (France). *Leisure interests:* water sports, winter sports, gardening. *Address:* Royal Netherlands Embassy, 38 Hyde Park Gate, London, SW7 5DP, England. *Telephone:* 01-584 5040.

FADEYECHEV, Nikolay Borisovich; Soviet ballet dancer; b. 27 Jan. 1933; ed. Bolshoi Theatre Ballet School; Bolshoi Theatre Ballet Co., 1952-; People's Artist of R.S.F.S.R. *Chief roles:* Siegfried (Swan Lake), Albert (Giselle), Jean de Brien (Raimonde), Harmodius (Spartacus), Frondoso (Laurensia), Danila (Stone Flower), Romeo (Romeo and Juliet), Prince Desire (Sleeping Beauty). *Address:* State Academic Bolshoi Theatre of U.S.S.R., 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

FAGERHOLM, Karl-August; Finnish politician; b. 1901; ed. Helsinki; barber 1917-23; Chair. Finnish Barbers T.U. 1920-23; mem. of Parl. 1930-66; mem. Presidential electorate 1931; Minister of Social Affairs 1937-43; mem. of Castren Govt. 1944; Speaker of the Diet 1945-48, 1950-56, 1959-61, 1965-66; Prime Minister 1948-50, 1956-57, 1958-59; Chair. Shopworkers' Union 1930-42, Hon. Chair. 1943-; Workers' Rep. at Labour Conf. Geneva 1930, Govt. Rep. 1938 and 1939; Dir.-Gen. State Alcohol Monopoly 1952-; Spokesman for several professional workers' unions; mem. Exec. Cttee. Social Democratic Party. *Address:* Temppelik 15, Helsinki, Finland.

FAHD IBN ABDUL AZIZ, Crown Prince; Saudi Arabian politician; b. 1922; brother of H.M. King Khalid (*q.v.*). Minister of Educ. 1953, of the Interior 1962-Oct. 1975; Second Deputy Prime Minister 1968-75, First Deputy Prime Minister March 1975-; became Crown Prince 1975. *Address:* Council of Ministers, Jeddah, Saudi Arabia.

FAHMY, Ismail; Egyptian diplomatist and politician; b. 2 Oct. 1922, Cairo; s. of Mohammed Fahmy and Fayka Noshy; m. Afaf Hamed Mahmoud 1947; two s. one d.; ed. Cairo Univ.; joined Foreign Office 1946; Vice-Consul, Paris 1947-49; mem. Perm. Mis-

sion to UN 1949-57, adviser to Egyptian del. to Gen. Ass. 1949-64, alt. Rep. Gen. Assembly 1965-66, mem. del. UN Security Council 1949-50, 1962-63, Rep. Technical Assistance Cttee. 1951-56, alt. Rep. Econ. and Social Council 1951-56, alt. Rep. Collective Measures Cttee., Adviser to Del., alt. Rep. and Rep. Political Cttee. 1949-56, Vice-Chair. (21st session), Chair. (22nd session); Rep. Exec. Bd. UNIDO 1969-71; Rep. Prep. Comm. IAEA 1956-57, Perm. Rep. to IAEA 1957-60, mem. Bd. of Govs. 1957-60, 1971, Vice-Pres. Bd. 1959-60, mem. del. 1st-4th Annual Conf. of IAEA 1958-61, Chair. del. 1968-71; Dir. Dept. of Int. Orgs. and Confs., Ministry of Foreign Affairs 1964-68; Amb. to Austria 1968-71; Under-Sec. of State for Foreign Affairs 1971-73, Minister of Tourism April-Oct. 1973, of Foreign Affairs 1973-77, Deputy Premier 1975-77, resgnd. Nov. 1977. *Leisure interest:* reading. *address:* 22 Saraya El Guezira Zamalek, Cairo, Egypt. *Telephone:* 818458-933550.

FAHMY, Lieut.-Gen. Mohamed Ali; Egyptian armed forces officer; b. 11 Oct. 1920, Cairo; ed. Eng. Faculty of Cairo Univ., Mil. Acad., Staff Coll., Air Defence Acad. in Kalinin, U.S.S.R.; Instructor, Senior Officers' Studies Inst. 1952-63; Army Operations Dept. 1952-58; Commdr. 2nd Light A/A Regt. 1958, 14th A/A Regt. 1958-59, 64th A/A Regt. 1959-61, 6th Artillery Group 1961-63; Chief of Staff, 5th Artillery Div. 1963-66, Commdr. 1966-68; Air Defence Chief of Staff 1968-69; C.-in-C. Air Defence Forces 1969-75; C.-in-C. Armed Forces 1975-78; Mil. Adviser to the Pres. Oct. 1978-; rank of Maj.-Gen. 1965, Lieut.-Gen. 1973; Order of Liberation 1952, Memorial Order of Founding of U.A.R. 1958; Mil. Star 1971; Star of Honour (PLO) 1974; Yugoslav Star with Gold Belt, First Class 1974; Order of King Abdul-Aziz, First Class (Saudi Arabia) 1974; numerous ribbons and medals. *Publications:* Two books on the Palestinian Campaign, Germany, a Threat to Peace, Germany between East and West (in two parts), book on African unity, book on African nationalism. *Address:* Office of the President, Cairo, Egypt.

FAIRBANKS, Douglas Elton, Jr.; American actor, writer and producer; b. 9 Dec. 1909, New York; s. of late Douglas Elton Fairbanks and of Anna Beth (Sully) Fairbanks; m. Mary Lee Epling 1939; three d.; ed. Pasadena Polytechnic, Harvard Mil. School, Los Angeles; began film career 1923, stage career 1927; acted in more than 75 films and 20 plays in U.S. and U.K. (produced or co-produced 15); produced 160 one-act TV plays 1953-58; organized own production co., Criterion Films Corp. (U.K.) 1943 Chair. Dougfair Corp. and subsidiaries, The Fairbanks Co. (Calif.) 1946, Fairtel Corp. (N.Y.) 1969, Douglas Fairbanks Ltd. (U.K.) and associated cos. 1952-58; Gov. Ditchley Foundation; Trustee Edwina Mountbatten Trust; mem. Bd. of Govs. Royal Shakespeare Theatre, Stratford-on-Avon; Nat. Vice-Chair. Cttee. Defend America by Aiding Allies 1940-41, Vice-Pres. Franco-British War Relief Assn. 1939-41, Presidential Envoy, Special Mission to Latin America 1940-41; rank of Capt., U.S.N. Reserve 1954; Sr. Churchill Fellow (Westminster Coll.); Hon. M.A. (Oxford Univ.), Hon. D.F.A. (Westminster Coll.), Hon. LL.D. (Denver Univ.); Hon. K.B.E., D.S.C., K.St.J.; Officier de la Légion d'honneur, Croix de guerre avec palmes (France), numerous American and other foreign decorations. *Publications:* screenplays, short stories, poems, articles, political essays. *Films include:* Stella Dallas 1925, The Dawn Patrol 1930, Outward Bound 1930, Little Caesar 1930, Morning Glory 1933, Catherine the Great 1934, The Prisoner of Zenda 1937, The Young in Heart 1938, Gunga Din 1939, The Corsican Brothers 1941, Sinbad the Sailor 1947, The Exile 1947, State Secret 1950; *Plays include:* Moonlight is Silver, My Fair Lady, The Pleasure of His Company, The Secretary Bird, Present Laughter, Out on a Limb. *Leisure interests:* swimming, tennis, golf, travel. *Address:* c/o E. Noll, 32 South Eaton Place, London S.W.1., England; Inverness Corpn., 380 Madison Avenue, New York, N.Y. 10017; The Vicarage, North Lake Way, Palm Beach, Fla. 33480, U.S.A.

FAIRFAX, Sir Vincent Charles, Kt., C.M.G.; Australian business executive; b. 26 Dec. 1909, Camboya, Queensland; s. of John H. F. Fairfax and Ruth B. Dowling; m. Nancy Heald 1939; two s. two d.; ed. Geelong Grammar School, Victoria and Brasenose Coll., Oxford; mil. service 1940-46; Royal Flying Doctor Service 1954-71; Dir. Bank of N.S.W. 1953, John Fairfax Ltd. 1956; Dir. Australian, Mutual Provident Soc. 1956, Chair. 1966; Chair. Stanbroke Pastoral Co. Pty. Ltd. 1964; Chair. Australian Section, Commonwealth Press Union 1950-73; Chair. Boys Brigade 1950, Pres. 1973; Chief Commr. Scout Assn. N.S.W. 1958-63, for Australia 1969-73; mem. Council Royal Agricultural Soc., N.S.W. 1950-, Treas. 1959, Pres. 1970; Deputy Pres. Royal Agricultural Soc. of Commonwealth 1966; mem. Church of England Property Trust 1950-71, Council Art Gallery Soc. of N.S.W. 1953-69, Glebe Admin. Board 1962-73; Trustee, Walter and Eliza Hall Trust 1953. *Leisure interests:* tennis, golf, trout fishing. *Address:* 2 Castlereagh Street, Sydney, N.S.W. 2000 (Office); 550 New South Head Road, Double Bay, N.S.W. 2028, Australia (Home).

FAIRFAX, Sir Warwick (Oswald), Kt., M.A.; Australian journalist; b. 1902; s. of Sir James Oswald Fairfax and Mabel Hixson; m. 1st Marcie Elizabeth Wilson 1928, one s. one d; m. 2nd Hanné Anderson Bendixsen 1948, one d.; m. 3rd Mary Wein 1959, one s.; ed. Geelong Grammar School and Sydney and Oxford Univs.; joined staff John Fairfax and Sons Ltd. (Sydney Morning Herald, The Sun, The Sun-Herald, The Australian Financial Review, etc.) 1925, Dir. 1927, 1977-, Man. Dir. 1930, Chair. of Dirs. 1956-77; Chair. Assoc. Newspapers Ltd.; Dir. David Syme and Co. Ltd.; Vice-Pres. Bd. Australian Elizabethan Theatre Trust. *Publications:* Ed. A Century of Journalism (the Sydney Morning Herald) 1931; Men, Parties and Policies 1943, The Triple Abyss: towards a modern synthesis 1965; plays: A Victorian Marriage, Vintage for Heroes, The Bishop's Wife. *Leisure interests:* the arts, philosophy, motoring and vintage cars. *Address:* John Fairfax and Sons Ltd., P.O. Box 506, G.P.O. Sydney; Fairwater, 560 New South Head Road, Double Bay, Sydney, N.S.W. 2028; Harrington Park, Narellan, N.S.W. 2567, Australia (Home). *Telephone:* 2-0944 (Office); 36-4161 (Home).

FAJON, Etienne; French politician and journalist; b. 11 Sept. 1906, Jonquières (Hérault); s. of Joseph Fajon and Rachel Roques; m. Juliette Bonnafous 1933; one s.; ed. Ecole normale d'instituteurs de Montpellier; mem. Cen. Cttee., French CP 1932; Deputy for Courbevoie 1936-40; Del. to Provisional Assembly 1944-45; mem. Constituent Assembly 1945-46; Deputy for Seine 1946-58, 1962-67, Deputy for Seine-Saint-Denis 1967-; mem. of Party Political Bureau 1945-, Party Sec. 1954-56, 1970-76; Dir. L'Humanité 1958-74. *Publications:* L'Union est un combat 1975, Ma vie s'appelle Liberté 1976. *Address:* Comité Central du Parti Communiste Français, 2 place Colonel Fabien, 75940 Paris Cédex 19, France. *Telephone:* 202-70-10.

FALCÃO, Dr. Armando Ribeiro; Brazilian lawyer and politician; b. 1920, Ceará State; Leader Chamber of Deputies 1959; Minister of Justice 1960-61, 1974-. *Address:* Ministério de Justiça, Palácio da Justiça, Brasília, D.F., Brazil.

FALIN, Valentin Mikhailovich; Soviet diplomatist; b. 3 April 1926, Leningrad; ed. Moscow State Inst. of International Relations; official in Soviet Control Comm. in Germany 1950-52; mem. staff U.S.S.R. Ministry of Foreign Affairs 1952-56; Head, Second European Dept., Ministry of Foreign Affairs 1966-68, Third European Dept. 1968-71; Amb. to Fed. Repub. of Germany 1971-78; mem. Cen. Audit Comm. of CPSU *Address:* c/o Ministry of Foreign Affairs, 32-34 Smolenskaya Sennaya Ploshchad, Moscow, U.S.S.R.

FALK, Isidore Sydney, PH.D.; American medical economist, social security expert; b. 30 Sept. 1899, Brooklyn, N.Y.; s. of Samsin and Rose (Stolzberg) Falk; m. Ruth Hill 1925; two s.; ed. Yale Univ.; Asst. Dept. of Public Health 1915-20; Instructor Yale Univ. 1920-23, Prof. of Public Health (Medical Care), 1961-68, Prof. Emer. and Lecturer in Public Health 1968-; Asst. Prof. of Hygiene and Bacteriology, Univ. of Chicago 1923-26, Assoc. Prof. 1926-29, Prof. 1929; Assoc. Dir. Cttee. on Costs of Medical Care 1929-33; Research Assoc. Milbank Memorial Fund 1933-36; Statistical Consultant U.S. Public Health Service 1936; Chief of Health Studies Social Security Bd. 1936-38, Asst. Dir. Bureau (later Division) of Research and Statistics 1938-40, Dir. 1940-54; mem. Int. Bank Mission to Malaya 1954; Consultant on Public Health and Social Security to Govt. of Panama 1955 and 1956; Consultant on Health to Panama Canal Zone Govt. 1957; Consultant on Health Services to United Steelworkers of America 1958-; Vice-Chair. and Exec. Dir. Community Health Center Plan. *Publications:* Laboratory Outlines in Bacteriology and Immunology (with J. F. Norton) 1926; co-Editor The Newer Knowledge of Bacteriology and Immunology 1928, The Costs of Medical Care (with C. R. Rorem and M. D. Ring) 1933, Security Against Sickness 1936, Disability Among Gainfully Occupied Persons (with Barkev S. Sanders and David Federman) 1945, Medical Care Insurance, A Social Insurance Program for Personal Health Services (with staff) 1946, Social Insurance Program for Haiti 1952, The Social Services (in Economic Development of Malaya) 1955, A Review of the Social Security Program of Panama (English and Spanish texts) 1956, Health in Panama: A Survey and a program (English and Spanish texts) 1957, A Survey of Health Services and Facilities in the (Panama) Canal Zone 1958, Medical Care Program for Steelworkers and their Families (with others) 1960, Development of the Community Health Center Plan in New Haven, Connecticut 1969-1973 3 vols. (with others) 1973, Standards for Good Medical Care 4 vols. (with H. K. Schonfeld and J. F. Heston) 1975; numerous papers. *Address:*

Route 2, Stonington, Conn.; 150 Sargent Drive, New Haven, Conn. 06511 (Office); 472 Whitney Avenue, New Haven, Conn. 06511, U.S.A. (Home). *Telephone:* 787-3141 (Office); 776-6537 (Home).

FALKENHAUSEN, Gotthard Freiherr Von, DR.IUR.; German banker; b. 20 Jan. 1899, Lübben; ed. Humboldt-Universität zu Berlin, Georg-August-Universität zu Göttingen and Martin Luther-Universität Halle-Wittenberg. Attorney Königsberg 1926-28; Legal Adviser, Disconto Gesellschaft (later Deutsche Bank) 1938-; Partner, Burkhardt & Co., Essen (bankers) 1938-; Vice-Chair. Admin. Bd. Bankhaus C. G. Trinkaus & Burkhardt 1972; mem. Essen City Council 1948-68; Hon. Chair. Supervisory Bd., Kundekreditbank (Consumer Credit Bank), Düsseldorf; Hon. Pres. German Bankers Assen., Chamber of Commerce for Cities of Essen, Mülheim and Oberhausen, German-French Chamber of Commerce, Paris; Hon. Chair. Atlantic Bridge Org., Hamburg; mem. Bd. of Man. German Council, European Movement, Bonn, Centre d'Etudes de Politique Etrangère, Paris, Rheinisch-Westfälische Börse, Düsseldorf. *Address:* Essen-Bredeney, Brachtstrasse 21, Federal Republic of Germany. *Telephone:* 190201 (Office); 411764 (Home).

FALKENHEIM, Ernst, G.P.; German businessman; b. 7 May 1898, Starnberg/Obb.; s. of Dr. Hugo and Rosa Falkenheim (née Jaeger); m. Gertrud Heddrich 1945; one d.; ed. Univ. of Munich; served in First World War; worked for Hugo Stinnes Concern; joined Deutsche Shell 1936; mem. Bd. of Deutsche Shell until 1963; Hon. Chair. Bd. of Fichtel und Sachs, A.G., Schweinfurt, and other cos.; Hon. Senator Tübingen Univ.; Grosses Bundesverdienstkreuz Deutschland; Bayerischer Verdienstorden. *leisure interests:* philosophy, history, golf. *Address:* Hagrainerstrasse 15, 8183 Rottach-Egern Obb., Postfach 20, Federal Republic of Germany. *Telephone:* 08022-6238.

FALKNER, Sir (Donald) Keith, Kt., F.R.C.M.; British musician; b. 1 March 1900, Sawston, Cambs.; s. of John Charles Falkner; m. Christabel Margaret Fullard 1930; two d.; ed. New Coll. School, Oxford, Perse School, Cambridge and Royal Coll. of Music, London; Pilot R.N.A.S. 1917-18; professional singer 1923-46; Sqdn. Ldr. R.A.F.V.R. 1940-45; Music Officer, British Council in Italy 1946-50; Visiting Prof. Cornell Univ. 1950-51, Assoc. Prof. 1952, Prof. 1956-60; Dir. Royal Coll. of Music 1960-74; Hon. R.A.M., Hon. G.S.M. (Guildhall School of Music), Hon. F.T.C.L. (Trinity Coll. of Music, London), Hon. D. Mus.(Oxon). *Leisure interests:* golf, cricket, squash racquets, walking, reading. *Address:* Low Cottages, Ilketshall St. Margaret, Bungay, Suffolk, England. *Telephone:* Bungay 2573.

FALL, Cheikh Ibrahima; Senegalese diplomatist and administrator; b. 4 Feb. 1930, Dakar; six s. one d.; ed. Lycée Faidherbe Saint-Louis, and Univs. of Dakar and Rennes; Agent of Gen. Admin. and Justice; Chief Asst. Office of Econ. Affairs, Haut-Commissariat of French West Africa 1956-57; Technical Counsellor, Ministry of Econ. Affairs and Planning 1957-59; Dir. de Cabinet of Sec. of State of Commerce, Industry and Crafts; Dir. of External Finance, Ministry of Finance and Econ. Affairs; Amb. to Fed. Germany and Netherlands 1964-65, to U.S.S.R., Poland 1965-68, to U.S.A., Canada, Mexico, Trinidad and Tobago, Haiti 1968-73; Sec.-gen. West African Econ. Community 1973-76; del. to many countries, to UN and affiliated orgs., Vice-Pres. del. to World Conf. on Commerce and Devt., Geneva 1964; Trustee, Port of Commerce, Dakar, Crédit Populaire Sénégalais, Soc. d'Armement à la Pêche; numerous orders and decorations. *Address:* c/o Ministry of Foreign Affairs, Dakar, Senegal.

FALL, Medoune; Senegalese diplomatist; b. 21 July 1919, St. Louis, Senegal; ed. Ecole supérieure, Dakar. Sec., Territorial Assembly, Senegal 1952-56; Dir. of Social Insurance, Louga 1956-59; District Chief, Podor and Bambey 1959-60; Head, Diourbel Regional Devt. Assistance Centre 1960-61; Gen. Dir. Nat. Bd. for Farm Produce Purchases, later Gov. of Diourbel Region 1961-63; Amb. to France 1964-66, concurrently to Spain, and Rep. to UNESCO 1965-66; Amb. to Belgium and Perm. Rep. to EEC 1966-68; Amb. to U.S.S.R. 1968-71; Perm. Rep. to UN 1971-. *Address:* Permanent Mission of Senegal to United Nations, 51 East 42nd Street, 17th Floor, New York, N.Y. 10017, U.S.A.

FALLACI, Oriana; Italian writer and journalist; b. 29 June 1930, Florence; d. of Edoardo and Tosca (Cantini) Fallaci; ed. Liceo Classico 'Galileo Galilei', Florence, and medical school; entered journalism 1946, special correspondent 1950, war correspondent since 1967 (Viet-Nam, Indo-Pakistan war, Middle East, insurrections in South America); Hon. D.Litt., St. Vincent Prize for Journalism (twice), Bancarella Prize for Best Seller, numerous other prizes. *Publications:* The Useless Sex 1960, The Egotists 1965, If the Sun Dies 1968, Interview with History 1974; novels: Penelope at War 1963, Nothing and So Be It, Letter to a Child Never Born 1975; numerous articles in Life, Look, New York Times magazine, Washington Post, New Republic, etc., and in Europe, Asia and South America. *Address:* 712 Fifth Avenue, New York, N.Y., U.S.A. (office); 74 Via Vento, Rome, Italy (office).

FÄLLDIN, (Nils Olof) Thorbjörn; Swedish farmer and politician; b. 24 April 1926, Högsjö; s. of N. J. and Hulda (Olsson) Fälldin; m. Solveig Oberg 1956; two s. one d.; ed. secondary school; mem., Second Chamber of Parl. 1958-64, First Chamber 1967-70; mem. Parl. (Riksdag) 1971-; Chair. Centre Party 1971-; Prime Minister 1976-78, resgnd. 1978. *Leisure interests:* fishing, athletics. *Address:* Ås, 870 16 Ramvik, Sweden (Home). *Telephone:* 0612/-43097 (Home).

FALLE, Sir Samuel, K.C.M.G., K.C.V.O., D.S.C.; British diplomatist; b. 19 Feb. 1919; ed. Victoria Coll., Jersey, Channel islands; served in Royal Navy 1937-48; Diplomatic Service 1948-; Consul-Gen., Gothenburg, Sweden 1961-63; Head of UN Dept., Foreign Office 1963-67; Deputy High Commr. in Malaysia 1967-69; Amb. to Kuwait 1969; High Commr. in Singapore 1970-74; Amb. to Sweden 1974-77; High Commr. in Nigeria 1977-78; Del. of Comm. of European Communities, Algiers 1979-. *Leisure interests:* jogging, swimming, cross-country skiing, languages. *Address:* c/o Commission of the European Communities, rue de la Loi 200, 1049 Brussels, Belgium. *Telephone:* 32-2-7350040.

FALLON, Walter A., M.S.; American business executive; b. Schenectady, N.Y.; m.; two d.; ed. Union Coll. and Rensselaer Polytechnic Inst.; joined Eastman Kodak Co. 1941, chemist, general foreman, then Asst. Supt. 1944-47, Tech. Assoc., asst. supt., then Asst. Man. Emulsions Div. 1947-66, Man. 1966-68, Man. Film Sensitizing and Plate Manufacturing Org. 1968-70, Vice-Pres. Eastman Kodak 1970-72, Dir. 1970-, Pres. 1972-77, Chief Exec. Officer 1972-, Chair Bd. and of Exec. Cttee. 1977-; Dir. Kodak-Pathe 1970-, Eastman Chem. Products 1971-, Kodak Ltd. 1972-; mem. Aufsichtsrat, Kodak AG 1973-; Dir. Gen. Motors Corpn., Rochester Gas and Electric Corpn., J. P. Morgan and Co. Ltd.; Vice-Pres. and Dir. Industrial Man. Council of Rochester; mem. The Business Council, Rochester Chamber of Commerce, Labor-Man. Cttee. of Nat. Council on Alcoholism; Trustee, Cttee. for Econ. Devt., Rochester Savings Bank, Rochester Inst. of Tech., Univ. of Rochester; Hon. D.Sc. (Union Coll.) 1972; Herbert T. Kalmus Gold Medal 1968. *Address:* Eastman Kodak Company, 343 State Street, Rochester, N.Y. 14650; 35 Edgewater Lane, Irondequoit, New York, U.S.A. (Home).

FALUVÉGI, Lajos; Hungarian economist and politician; b. 22 Oct. 1924, Mátraderecske; ed. Univ. of Political Economy; joined the working-class movement 1947, Hungarian Socialist Workers' Party 1962; held various posts at Ministry of Finance, Deputy Minister 1968-71; Minister of Finance 1971-; mem. State Planning Cttee. 1973-; mem Bd. of Political Econ. attached to HSWP Cen. Cttee. 1975-. *Address:* Ministry of Finance, H-1369 Budapest V, József nádor tér 2/4, Hungary. *Telephone:* 182-660.

FAN TZU-YU; Chinese politician. in Dept. of Supplies on Long March, 2nd Front Army 1934-35; Champion of Swimming Contest for Generals in People's Liberation Army Units 1960; Maj.-Gen., Gen. Logistics Dept., PLA 1964; Minister of Commerce 1971-78. *Address:* People's Republic of China.

FANFANI, Amintore; Italian economist and politician; b. 6 Feb. 1908. Fellow, Catholic Univ. of Milan 1932, Titular Prof. in Economic History 1936, later Prof. Univ. of Rome 1954; mem. Constituent Assembly for XVI District 1946, M.P. for same district 1948-68; Minister of Labour and Social Security in 4th, 5th and 6th De Gasperi Cabinets 1947-50; Minister of Agriculture and Forestry, 8th De Gasperi Cabinet July 1951, Minister of the Interior 1953 and Prime Minister Jan. 1954; Sec. Christian Democrat Party 1954-59, 1973-75, Chair. April-Oct. 1976; Prime Minister 1958-59, 1960-63; Minister of Foreign Affairs 1965, 1966-68; Pres. of Senate 1968-73, 1976-, Life Senator 1972-; Pres. UN Gen. Assembly 1965-66. *Publications:* Le origini dello spirito capitalistico 1932, Cattolicesimo e protestantesimo nella formazione storica del capitalismo 1934, Storia delle dottrine economiche 1938-71, Indagini sulla rivoluzione dei prezzi 1939, Storia economica 1940-71, Storia del lavoro 1943, Colloqui sui poveri 1941, Persona, beni, società 1945, Le tre città 1946, Poemi Omerici ed Economia Antica 1960, Una Pieve in Italia 1964, Strategia della Sopravvivenza 1975, ONU 1965-66, 1976, Capitalismo, Socialità, Partecipazione 1976. *Address:* E.U.R. Piazzale Luigi Sturzo 15, Rome, Italy (Home).

FANG, Roland Chung, M.A.; Chinese scholar; b. 1902; ed. Tsing Hua Coll., Peking, Calif. and Stanford Univs.; Prof. of English Literature, Central Univ. Nanking 1928-30; Prof. of English Literature and Head of English Dept., Wuhan Univ. 1931-44; Visiting Prof. Trinity Coll. Cambridge Univ. 1944-46; Prof. of English and

Head of Dept. of Foreign Languages, Chekiang Univ. 1947-51, Chekiang Teachers' Coll. 1951-52; Prof. Anhwei Univ., Wuhu 1952-53, East China Teachers' Univ. Shanghai 1953-54, Futan Univ., Shanghai 1954-56; Head, English Dept., Shanghai Inst. of Foreign Languages 1957-. *Publications:* Book of Modern English Prose (2 vols.) 1934, Studies in English Prose and Poetry 1939, A Chinese Verse Translation of Shakespeare's Richard III 1959, Complete Works of Chaucer translated into Chinese 1962, Chaucer's Canterbury Tales (revised edn.) 1963. *Address:* Shanghai Institute of Foreign Languages, Shanghai, People's Republic of China.

FANG YI; Chinese politician; b. 1909, Fukien. Ed. Commercial Press, Shanghai 1930; on Long March 1934; Sec.-Gen. N. China People's Govt. 1948; Vice-Gov. of Shantung 1949, of Fukien 1949-52; Deputy Mayor of Shanghai 1952-53; Vice-Minister of Finance 1953-54; with Embassy of People's Repub. of China, Hanoi 1954-61; alt. mem. 8th Cen. Cttee. of CCP 1956; Dir. of Bureau for Econ. Relations with Foreign Countries, State Council 1961-64; Chair. Comm. for Econ. Relations with Foreign Countries 1964-68; alt. mem. 9th Cen. Cttee. of CCP 1969; Minister of Econ. Relations with Foreign Countries 1969-76, for State Science and Tech. Comm. March 1978-; Vice-Premier, Council of State 1978-; Vice-Pres. Chinese Acad. of Sciences 1977-; mem. 10th Cen. Cttee. of CCP 1973, mem. Standing Cttee. of CCP 1977. *Address:* People's Republic of China.

FANNIN, Paul Jones, B.A.; American politician; b. 29 Jan. 1907, Ashland, Ky.; m. Elma Addington 1934; three s. one d.; ed. Arizona and Stanford Univs.; partner Fannin Brothers (Industrial Devts.); fmr. Pres. Maricopa County Better Business Bureau; Gov. of Arizona 1958-65; Chair. Western Govs. Conf. 1963; mem. President's Civil Defense Advisory Council 1963-64; Senator from Arizona 1964-77; del. to Mexico-U.S. Interparl. Conf. 1965, 1966, 1967; del. to Int. Labor Org., Geneva 1966; mem. several Senate Cttees. *Leisure interest:* golf. *Address:* 599 Orange Blossom Lane, Phoenix, Ariz. 85018, U.S.A.

FARAH, H.I.M. Queen (*see* Pahlavi, H.I.M. Queen Farah).

FARAH, Abdulrahim Abby; Somali diplomatist; b. 1919; ed. Univ. of Exeter and Balliol Coll., Oxford. Amb. to Ethiopia 1961-65; Perm. Rep. of Somalia to UN 1965-72; UN Commr. for Technical Co-operation 1972-73; UN Asst. Sec.-Gen. for Special Political Questions 1973-. *Address:* Office of the Assistant Secretary-General, United Nations Secretariat, New York, N.Y. U.S.A.

FARHAN, Ishaq Ahmad, M.SC., M.A., ED.D.; Jordanian educationist; b. 1934, Ein Karem; m.; ed. American Univ., Beirut, and Columbia Univ., New York; science teacher 1958-64; with Ministry of Educ., Amman 1964-, Dir. of Pedagogical Services and Head, Syllabi Section 1969, Dir. of Syllabi 1969-70; Minister of Educ. 1970-73, of Endowments and Islamic Shrines 1973; Consultant for scientific and educational affairs, Royal Scientific Soc. 1974, Dir.-Gen. 1975-; Pres. Univ. of Jordan 1976-78. *Publications:* several school textbooks and articles in scientific and pedagogical journals. *Address:* Royal Scientific Society, Amman, Jordan.

FARIA LIMA, Floriano Peixoto; Brazilian naval officer; b. 15 Nov. 1917, Guanabara; s. of João Soares de Lima and Castorina Faria Lima; m. Hilda de Faria Lima 1941; one d.; ed. Naval Acad.; officer in Navy; Rear-Adm. 1966; Vice-Adm. 1969; Deputy Head of Office of Minister for the Navy; Naval Attaché, Brazilian Embassy, Washington, D.C., Ottawa; del. to Inter-American Defence Council (Junta Inter-americana de Defesa); mem. Joint Comm. for Brazilian-U.S. Defence; Dir. Petrobrás S.A. 1969-74; Gov. Rio de Janeiro State 1975-; Portuguese Mil. Merit Medal, Spanish Merit Medal, Medal of Legion of Mil. Merit of U.S.A., and many Brazilian decorations. *Leisure interests:* soccer, volleyball, collecting watches. *Address:* Palácio Guanabara, Rio de Janeiro, RJ, Brazil.

FARICY, William Thomas, LL.B.; American railroad executive; b. 7 March 1893, St. Paul, Minn.; s. of John I. and Thecla Brown Faricy; m. Norma Hauser 1918; two d.; ed. St. Paul Coll. of Law; Attorney C., St. P. M. & O. Railway Co., St. Paul 1914, Gen. Attorney 1920-24, Gen. Solicitor 1929-33, Vice-Pres. and Gen. Counsel 1942-47; gen. practice St. Paul 1916-17, 1919-20; commerce Attorney, C. & N. W. Railway Co., Chicago 1924-25, Minn. Attorney, St. Paul 1927-29, Gen.Solicitor, Chicago 1933-42, Gen. Counsel 1942-47, Vice Pres. 1944-47; Vice-Pres. Hauser Securities Co. and Asst. to Pres. Hauser Construction Co., Portland, Ore., and Long Beach, Calif. 1925-27; Chair. Western Conf. of Railway Counsel 1944-46; Pres. Assen. of American Railroads 1947-57, Chair. of Bd. 1957-58; Advisory Dir. Riggs Nat. Bank, Washington, D.C.; Chair. Civilian Components Policy Bd., Dept. of Defense 1949-50; Chair. U.S. Nat. Comm. Pan American Railway Congress Assen. 1949-58, mem. 1959-68; fmr. Pres. Hauser Securities Co. of Portland, Ore.; fmr. Pres. and Trustee, Grant Smith & Co. & McDonnell Ltd., Vancouver, B.C. 1960-; Life Trustee, Northwestern Univ. *Leisure interests:* golf, travel. *Address:* Association of American Rail-Roads, 1920 L Street, N.W., Washington, D.C.; 4914 Glenbrook Road, N.W., Washington, D.C. 20016, U.S.A. (Home). *Telephone:* 202-293-4021 (Office).

FARIS, Mustapha, DIPL.ING.; Moroccan economist; b. 17 Dec. 1933; ed. Ecole Nat. des Ponts et Chaussées, Paris; Govt. Civil Engineer, Dept. of Public Works 1956-61; Dir. of Supply, Nat. Irrigation Office 1961-65; Dir.-Gen. of Hydraulic Eng. 1965-69; Sec. of State for Planning attached to Prime Minister's Office 1969-71; Minister of Finance 1971-72; Pres., Dir.-Gen. Banque Nationale pour le Développement Economique Dec. 1972-77; fmr. Vice-Pres. Int. Comm. on Large Dams; Gov. IBRD (World Bank), African Devt. Bank; Ordre du Trône. *Address:* Banque Nationale pour le Développement Economique, B.P. 407, Rabat, Morocco.

FARMANFARMAIAN, Khodadad, M.A., PH.D.; Iranian economist and banker; b. 8 May 1928, Teheran; s. of Abdol Hossein and Hamdam Farmanfarmaian; m. Joanna Parkhurst 1949; one s. two d.; ed. American Univ. of Beirut, and Stanford and Colorado Univs.; Instructor and Research Asst., Dept of Econs., Colorado Univ. 1952-53; Instructor, Dept. of Econs., Brown Univ. 1953-55; Research Fellow, Center for Middle Eastern Studies, Harvard Univ. 1955-57; Research Assoc., Dept. of Econs. and Oriental Studies, Princeton Univ. 1957-58; Dir. Econ. Bureau, Plan Org. 1958-61; mem. Tax Comm., Ministry of Finance 1958-60; mem. High Econ. Council 1959-62, 1964-73; Deputy Man. Dir. Plan Org. 1961-62; Man. Dir. 1970-73; Deputy Gov. Bank Markazi Iran (Central Bank of Iran) 1964-69, Gov. 1969-70; Chair. Bd. Dirs. Bank Sanaye Iran 1973-79; medals from govts. of Iran and Belgium. *Publications:* Social Change and Economic Behaviour in Iran, Exploration in Entrepreneurial History 1956, How Can the World Afford OPEC Oil? (co-author) 1975, Energy: Global Prospects—1985-2000 (co-author); has contributed to Middle Eastern Journal. *Leisure interests:* reading, tennis. *address:* c/o Bank Sanaye Iran, Avenue Sepahbod Zahedi, No. 106, Teheran, Iran.

FARMER, James Leonard; American civil rights leader; b. 1920, Marshall, Texas; s. of late James Leonard Farmer, PH.D. and late Pearl Marion Houston Farmer; m. Lula A. Peterson 1949; two d.; ed. Wiley Coll. and Howard Univ.; fmr. Program Dir., Nat. Assoc. for the Advancement of Coloured People (NAACP); fmr. Int. Rep. State, County and Municipal Employees Union; Dir. Congress of Racial Equality 1961-66; Pres. Center for Community Action Educ. 1965-; Prof. of Social Welfare, Lincoln Univ. 1966-68; Adjunct Prof. New York Univ. 1968; Asst. Sec. for Admin., U.S. Dept. of Health, Educ. and Welfare 1969-70; Pres. Council on Minority Planning and Strategy 1972-; Exec. Dir. Coalition of American Public Employees 1977-. *Publication:* Freedom—When? 1966. *Leisure interests:* detective stories, fishing. *Address:* 5129 Chevy Chase Parkway, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* 202-363-2611 (Home).

FARMER, Sir (Lovedin) George (Thomas), Kt., LL.D., M.A., F.C.A., J.DIP.M.A.; British motor executive; b. 13 May 1908, Bridgnorth, Shropshire; s. of Lovedin Thomas Farmer and Florence Webb; m. Editha Mary Fisher; ed. Oxford High School; Chair. Rover Ltd. 1963-73; Deputy Chair. British Leyland Motor Corpn. Ltd. 1972-73; Pres. Birmingham Chamber of Commerce 1960-61, Soc. of Motor Manufacturers and Traders 1962-64, Deputy Pres. 1964-65, Chair. of its Exec. Cttee. 1968-72; Chair. Zenith Carburettor Co. 1973-77; Dir. Rea Bros (Isle of Man) Ltd.; mem. Livery of Worshipful Co. of Coach and Coach Harness Makers; Gov. Chair. of Exec. Council and Finance Cttee. of Royal Shakespeare Theatre until 1975, Deputy Chair. 1975-; Pres. Loft Theatre, Leamington Spa; Pro-Chancellor Univ. of Birmingham 1966-75. *Leisure interests:* theatre, golf, fishing. *Address:* Fairford, 8 Hill Park, Ballakillowey, Colby, Isle of Man, England. *Telephone:* Port St. Mary 832573.

FARNER, Donald S., PH.D., D.SC.; American zoo-physiologist; b. 2 May 1915, Waumandee, Wis.; s. of John and Lillian S. Farner; m. Dorothy S. Copps 1940; one s. one d.; ed. Hamline Univ. and Univ. of Wisconsin; Instructor in Zoology, Univ. of Wisconsin 1941-43; Asst. Prof. of Zoology, Univ. of Kansas 1946-47; Assoc. Prof. of Zoophysiology, Washington State Univ. 1947-52, Prof. of Zoophysiology 1952-65, Dean of Graduate School 1960-64; Prof. of Zoophysiology, Univ. of Washington 1965-, Chair. Dept. of Zoology 1966-; Fulbright Research Fellow and Hon. Lecturer Univ. of Otago 1953-54; Guggenheim Fellow and Hon. Lecturer in Zoology, Univ. of W. Australia 1958-59; Pres. Int. Union of Biological Sciences 1967-73; Chair. Div. of Biology and Agriculture Nat. Acad. of Sciences, Nat. Research Council 1968-73, Div. Biological Sciences 1973-74; Pres. XVII Int. Ornithological Congress 1978; mem. Ameri-

can Soc. of Zoologists, American Physiol. Soc., American Chem. Soc., Ecological Soc. of America, American Soc. of Naturalists, American Ornithologists Union, Soc. for Endocrinology, American Assen. for Advancement of Science, Deutsche Ornithologen Gesellschaft; Brewster Medal, American Ornithologists Union 1962, Senior U.S. Scientist Award, Alexander von Humboldt Stiftung 1978. *Publications:* Approx. 200 research and review publications 1941–. *Address:* Department of Zoology, University of Washington, Seattle, Washington 98195, U.S.A. *Telephone:* 206-543-1620.

FARRAR, Frank L. LL.B.; American politician; b. 2 April 1929, Britton, S. Dak.; s. of Virgil and Venetia Farrar; m. Pat Henley; one s. four d.; ed. Univ. of South Dakota Business School and Univ. of South Dakota School of Law; service in Korean War, retd. Capt. U.S. Army Reserve; Internal Revenue Agent 1955-57; Marshall Co. Judge; Marshall Co. State Attorney; Attorney-Gen. of S. Dakota 1962-68; Gov. of S. Dakota 1969-71; Chair. Marshall Co.; Republican Party. *Address:* P.O. Box 190, Britton, S. Dak. 57430, U.S.A. *Telephone:* 605-448-2274.

FARRELL, Eileen; American opera singer; b. 1920, Williamantic, Conn.; d. of Michael Farrell and Catherine Kennedy; m. Robert V. Reagan 1946; one s. one d.; debut with Columbia Broadcasting Co. 1941, own programme for six years; opera debut with San Francisco Opera (Il Trovatore); toured throughout the U.S.A. and in other parts of the world. *Address:* 72 Louis Street, Staten Island, N.Y. 10304, U.S.A.

FARRELL, James Thomas; American writer and columnist; b. 27 Feb. 1904, Chicago, Ill.; s. of James Fraser and Marjory Farrell; one c.; ed. Chicago Univ.; Cigar store clerk, filling-station attendant, part-time journalist; Guggenheim Fellow 1936-37; mem. Nat. Inst. of Arts and Letters; Hon. degrees Oxford and Ohio Univs. *Publications:* Young Lonigan—a boyhood in Chicago Streets 1932, Gas House McGinty 1933, The Young Manhood of Studs Lonigan 1934, Calico Shoes 1934, Judgement Day 1935, Guillotine Party and Other Stories 1935, A Note on Literary Criticism 1936, A World I Never Made 1936, Can All This Grandeur Perish? 1937, Collected Short Stories 1937, No Star is Lost 1938, Tommy Gallagher's Crusade 1939, Father and Son 1940, Ellen Rogers 1941, $1,000 a week and other stories 1942, My Days of Anger 1943, To Whom It May Concern 1944, The League of Frightened Philistines 1945, Bernard Clare 1946, When Boyhood Dreams Come True 1946, Literature and Morality 1947, The Life Adventurous 1947, The Road Between 1949, An American Dream Girl and Other Stories 1950, This Man and this Woman, Yet Other Waters 1952, The Face of Time 1953, Reflections At Fifty 1954, French Girls are Vicious 1955, A Farrell Omnibus 1956, A Dangerous Woman and Other Stories 1957, My Baseball Diary 1957, It Has Come to Pass 1958, Side Street and Other Stories 1961, Boarding House Blues 1961, Sound of the City 1962, The Silence of History 1963, What Time Collects 1964, Lonely for the Future 1965, The Collected Poems of James T. Farrell 1965, When Time was Born 1966, New York's Eve 1929 1967, A Brand New Life 1968, Judith 1969, Christmas Is Not Forever 1969, Invisible Swords 1970, Judith and Other Stories 1973, The Dunne Family 1976, The Death of Nora Ryan (with Jeanette Nolan and Horace Gregory) 1978. *Leisure interests:* has no time for these. *Address:* c/o Doubleday & Co., 277 Park Avenue, New York, N.Y. 10017, U.S.A.

FARRER-BROWN, Leslie, C.B.E.; British public servant; b. 2 April 1904, London; s. of the late Sydney and Annie Brown; m. Doris Evelyn Jamieson 1928; two s.; ed. London School of Economics; Asst. Registrar, London School of Econs. 1927-28; Admin. Staff, Univ. of London 1928-36; Sec. Cen. Midwives Bd. 1936-44; Ministry of Health 1941-44; Dir. The Nuffield Foundation 1944-64; Chair. Overseas Visual Aid Centre 1958-70, Centre for Educational Television Overseas 1964-70, Inst. of Race Relations 1964-68; Cttee. for Research and Devt. in Modern Languages 1965-70; Centre for Information on Language Teaching 1966-72; Nat. Council for Social Service 1960-73; Voluntary Cttee. on Overseas Aid and Devt. 1966-76, Inst. of Child Health (Univ. of London) 1966-76; Vice-Pres. Royal Commonwealth Soc. 1969-; Trustee, Commonwealth Foundation; Chair. Alliance Bldg. Soc.; Gov. and Hon. Fellow, London School of Econs., Chair. of Council and Pro-Chancellor, Univ. of Sussex; Hon. LL.D. (Birmingham and Witwatersrand), Hon. D.Sc. (Keele), Hon. F.D.S., R.C.S. *Leisure interests:* travel, painting. *Address:* Dale House, Keere Street, Lewes, Sussex, England. *Telephone:* Lewes 2007.

FARROW, Mia; American actress; b. 9 Feb. 1946, Calif.; d. of Maureen O'Sullivan and John Villiers Farrow; m. 1st Frank Sinatra (q.v.) 1966 (divorced 1968), 2nd André Previn (q.v.) 1970 (divorced 1979); three s. three d. Stage debut in The Importance of Being Earnest, New York 1963; French Acad. Award for best actress 1969, David Donatello Award (Italy) 1969, Rio de Janeiro Film Festival Award 1969, San Sebastian Award. *Stage appearances in London:* Mary Rose, The Three Sisters, House of Bernarda Alba 1972-73, The Marrying of Ann Leete (R.S.C.) 1975, The Zykovs 1976, Ivanov (R.S.C.) 1976; films include Guns at Batasi 1964, Rosemary's Baby 1968, Secret Ceremony 1969, John and Mary 1969, See No Evil 1970, The Great Gatsby 1973, Full Circle 1978, A Wedding 1978, Death on the Nile 1978, The Hurricane 1979; TV appearances in Peyton Place 1964-66; Johnny Belinda 1965, Peter Pan 1975. *Leisure interests:* reading, mind wandering, listening to music and certain people. *Address:* c/o Robert Lippmann, 409 N. Camden, Beverly Hills, Calif. 90210, U.S.A. *Telephone:* (213) 278-1572.

FASI, Mohammed El; Moroccan university rector; b. 2 Sept. 1908, Fez; m. Malika El Fasia 1935; three s. three d.; ed. Al Qarawiyin Univ., Fez, Univ. de Paris à la Sorbonne and Ecole des Langues Orientales, Paris; teacher, Inst. des Hautes Etudes Marocaines 1935-40; Head Arab manuscript section, Bibliothèque Gén., Rabat 1940, Tutor to Prince Moulay Hassan 1941-44, 1947-52; Rector Al Qarawiyin Univ. 1942-44, 1947-52; Vice-Pres. Conseil des Uléma 1942-; Founder-mem. Istiqlal Party 1944; under restriction 1944-47, 1952-54; Minister of Nat. Educ. 1955; Rector Mohammed V Univ. until 1970, Al Qarawiyin Univ. 1970-72; Pres. Moroccan Del. to Gen. Conf. of UNESCO 1956, 1958, 1960, 1964, Vice-Pres. 1962, leader of numerous UNESCO Confs. in the Arab World, Chair. Exec. Bd. of UNESCO 1964-66; mem. Exec. council 1978-; Minister of State for Cultural Affairs and Nat. Educ. 1968; Pres. Admin. Council of the Assen. of partially or entirely French-speaking Univs. (AUPELF) 1966; Pres. Assen. of African Univs. 1967; Pres. Exec. Bd. of Assen. of Islamic Univs. 1969; Tutor to the Crown Prince and the Royal Princesses 1972-; mem. Acad. of Arabic Language, Cairo 1958, Acad. of Iraq; Dr. h.c. (Bridgeport) 1965, (Lagos, Jakarta) 1968. *Publications:* Numerous works in Arabic and French including L'évolution politique et culturelle au Maroc 1958, La formation des cadres au Maroc 1960, Chants anciens des femmes de Fès 1967. *Leisure interests:* painting (has held exhibitions). *Address:* Centre de Coordination entre les Commissions nationales arabes pour l'UNESCO, B.P. 702, Rabat-Agdal; Avenue des Muriers, route des Zaërs, Rabat, Morocco. *Telephone:* 523-65 (Home).

FASOLT, Nikolaus, DR. PHIL.; German business executive; b. 21 July 1921, Berlin. Man. of Wessel-Werk GmbH., Bonn, Kervit GmbH, Meckenheim; Dir. Servais-Werke AG, Witterschlick; Chair. Wand- und Bodenfliessen-Industrie, Frankfurt; Pres. Fed. German Industry (B.D.I.) March-Aug. 1978 (resgnd.). *Address:* 53 Bonn-Bad Godesberg, Kennedy-Allee 12, Federal Republic of germany.

FASSBINDER, Rainer Werner; German film director and author; b. 31 May 1946, Bad Wörishofen; m. Ingrid Caven 1970 (divorced). Dir. Tower Theatre, Frankfurt 1974-75; mem. Poet Essayist Novelist Zentrum 1974, Bundesfilmpreis/Filmband im Gold (Katzelmacher 1970, Warum läuft Herr R. Amok? 1971, Händler der vier Jahreszeiten 1972); Film Critics' prize 1969; Int. Critics' prize, Cannes (Angst isst die Seele auf (Fear Eats the Soul) 1974). *Films include:* Katzelmacher 1969, Warum läuft Herr R. Amok?, Götter der Pest, Whity, Händler der vier Jahreszeiten (The Pedlar of Four Seasons) 1971, Die bitteren Tränen der Petra von Kant (The Bitter Tears of Petra von Kant) 1972, Angst isst die Seele auf (Fear Eats the Soul) 1972, Martha 1973, Effi Briest 1974, Fear of Fear 1975, Chinese Roulette 1976, Despair 1978, The Marriage of Maria Braun 1978. *Theatre and TV productions include:* 8 Stunden sind kein Tag, Welt am Draht 1973, Bremer Freiheit 1973, Bolwieser 1977. *Address:* Feldkirchen/Oberbayern, Ottostrasse 3, Federal Republic of Germany.

FAST, Howard; American writer; b. 11 Nov. 1914, New York City; s. of Berney Fast and Ida (née Miller); m. Bette Cohen 1937; one s. one d.; ed. Nat. Acad. of Design; began writing 1931; translated into 82 languages; film has been made of Spartacus (with Kirk Douglas); Bread Loaf Literary Award 1934, Schomburg Award for Race Relations 1944, Newspaper Guild Award 1947, Stalin Int. Peace Prize 1954, Screenwriters Award 1960, Secondary School Book Award 1962, Emmy Award (for The Ambassador) 1974. *Publications:* Novels: The Children 1935, place in the City 1937, Conceived in Liberty 1939, The Last Frontier 1941, The Unvanquished 1942, Citizen Tom Paine 1943, Freedom Road 1944, Clarkton 1947, My Glorious Brothers 1948, The Proud and the Free 1950, Spartacus 1951, Silas Timberman 1954, Moses, Prince of Egypt 1958, The Winston Affair 1959, April Morning 1961, Power 1962, Agrippa's Daughter 1964, Torquemada 1966, The Hunter and the Trap 1967, The Hessian 1972, A Touch of Infinity 1973, The Immigrants 1977; Short stories: Patrick Henry and the Frigate's Keel, Departure and Other Stories, The Last Supper; History: Romance of a People, Peekshill: U.S.A., The American (Biography) 1946, The Passion of Sacco and Vanzetti 1953, The Naked God,

The Jews 1969, The Crossing 1970; Plays: The Crossing, The Hill, The Ambassador (for TV) 1974; Screenplays: Spartacus 1959, The Hill 1963, Martian Shop 1964, Torquemada 1966, The Hunter and the Trap 1967, The Jews 1968, The General Zapped an Angel 1970. *Leisure interests:* gardening, working about my country place. *Address:* c/o Paul Reynolds Inc., 599 Fifth Avenue, New York, N.Y. 10017, U.S.A.

FATAYI-WILLIAMS, Atanda, M.A., LL.B., F.R.S.A.; Nigerian judge; b. 22 Oct. 1918, Lagos; s. of late Alhaji Issa Williams and Alhaja Ashakun Williams; m. Irene Violet Lofts 1948; three s.; ed. Methodist Boys' School, Lagos, Trinity Hall, Cambridge, Middle Temple, London. Private practice, Lagos 1948-50; Crown Counsel, Lagos 1950-55; Deputy Commr. for Law Revision, W. Nigeria 1955-58; Chief Registrar, High Court of W. Nigeria 1958-60, Judge 1960-67; Justice of Appeal, W. State 1967-69; Justice, Supreme Court of Nigeria 1969-; Chair. Ports Arbitration Bd. 1971, All Nigeria Law Reports Cttee. 1972-, Bd. of Trustees, Van Leer Nigerian Educ. Trust 1973-; mem. Nigerian Inst. of Int. Affairs 1972, Body of Benchers, Nigerian Law School 1974-, Legal Practitioners Privileges Cttee. 1975-. *Publications:* Revised Laws of Western Nigeria (with Sir John Verity) 1959, Editor Western Nigeria Law Reports 1955-1958, Sentencing Processes, Practices and Attitudes, as seen by an Appeal Court Judge 1969. *Leisure interests:* speedboats, swimming, walking, reading, travel. *Address:* Supreme Court, Lagos; 8, Adetokumbo Ademola Street, Victoria Island, Lagos, Nigeria. *Telephone:* 631027 (Office), 611315 (Home).

FATEH, A.F.M. Abul, M.A.; Bangladesh diplomatist; b. 28 Feb. 1926; ed. Dacca Univ. Carnegie Fellow in Int. Peace 1962-63; Pakistan Foreign Service 1949-71; Third Sec. Pakistan Embassy, France 1951-53, High Comm. Calcutta, India 1953-56; Second Sec. Embassy, U.S.A. 1956-60; Dir. Ministry of Foreign Affairs, Karachi 1961-65; First Sec., Czechoslovakia 1965-66; Counsellor, New Delhi, India 1966-67; Deputy High Commr., Calcutta 1968-70; Amb. to Iraq 1971; Adviser to Acting Pres. of Bangladesh July 1971; Foreign Sec. of Bangladesh Jan. 1972; Amb. to France 1972-75; High Commr. in U.K. 1976-. *Address:* Bangladesh High Commission, 28 Queen's Gate, London, SW7 5JA, England. *Telephone:* 01-584 0081.

FAULKNER, Arthur James; New Zealand politician; b. 20 Nov. 1921; ed. Otahuhu District High School. Member Parl. for Roskill 1957-; undertook fact finding missions to Repub. of Viet-Nam, Indonesia, Malaysia, Thailand, Singapore and the Philippines 1963, 1967; visited U.S.A. 1965; study tour of Britain to discuss EEC 1969; Minister of Defence, concurrently in charge of War Pensions and Rehabilitation 1972-74; Minister of Labour and State Services 1974-75; Pres. N.Z. Labour Party 1976-. *Address:* c/o Parliament Buildings, Wellington; Invermay Avenue, Mount Roskill, Auckland 4, New Zealand (Home).

FAULKNER, Sir Eric Odin, Kt., M.B.E.; British banker; b. 21 April 1914, St. Albans, Herts.; s. of Sir Alfred Edward Faulkner, C.B., C.B.E., and Lady Florence Edith Faulkner; m. Joan Mary Webster 1939; one s. one d.; ed. Bradfield Coll. and Corpus Christi Coll., Cambridge; joined Glyn, Mills & Co. (Bankers) 1936, Local Dir. 1947, Man. Dir. 1950, Deputy Chair. 1959, Chair. 1963-68; Army Service, Royal Artillery (Lt.-Col.) 1939-46; Dir. Union Discount Co. of London Ltd. 1949-53, Chair. 1953-70; Dir. Hudsons Bay Co. 1950-72, Vickers Ltd. 1957-; Deputy Chair. Lloyds Bank Ltd. 1968-69, Chair. 1969-77; Dir. Bank of London and South America 1969-71, Lloyds Bank Int. Ltd. 1971-77, Lloyds Bank Ltd., Finance for Industry Ltd. 1977-, Ind. and Commercial Finance Corpn. Ltd., Finance Corpn. for Industry Ltd., Unilever Ltd., Unilever N.V.; Deputy Chair. Cttee. of London Clearing Banks, Chair. 1972-74; Pres. British Bankers' Assn. 1972-73. *Leisure interest:* fly fishing. *Address:* 91 Waterloo Road, London, SE1 8XP, England. *Telephone:* 01-928 7822.

FAULKNER, Hon. J. Hugh, P.C., B.A.; Canadian politician; b. 9 March 1933, Montreal; s. of George V. Faulkner and Elizabeth Baird; m. Jane Meintjies; ed. Lakefield Coll. School, McGill Univ., Centre d'Etudes Industrielles and Carleton Univ.; fmr. teacher, Peterborough; mem. Parl. for Peterborough 1965-79; Chair. Standing Cttee. on Labour and Employment 1966; Deputy Speaker of Parl. 1968; Parl. Sec. to Sec. of State 1970; Sec. of State 1972-76; Minister of State for Science and Technology 1976-77; Minister of Indian Affairs and Northern Devt. 1977-79. *Address:* c/o House of Commons, Ottawa, Ontario, Canada.

FAURE, Edgar, D. EN D.; French lawyer and politician; b. 18 Aug. 1908, Béziers; s. of late Jean-Baptiste Faure and of Claire Lavit; m. Lucie Meyer 1931; two d.; ed. Ecole des Langues Orientales, Paris; Advocate at Paris Court of Appeal; Dir. of Legislative Services to the Presidency of the Council of the French Cttee. of National Liberation 1943-44; took part, as asst. del., in War Crimes Trials, Nuremberg 1945; Deputy for the Jura (Radical-Socialist) 1946-58; Vice-Pres. of Comm. of Enquiry into Events in France between 1933-45; Vice-Pres. of High Court of Justice; Sec. of Finance Comm. of Nat. Assembly; Sec. of State for Finance 1949-50; Minister of Budget 1950-51, of Justice 1951-52; Prime Minister Jan.-Feb. 1952; Minister of Finance and Econ. Affairs 1953-54, of Foreign Affairs Feb. 1955; Prime Minister Feb. 1955-Jan. 1956; Minister of Finance, May-June 1958; Senator 1959-; Prof. of Law, Univ. of Dijon 1962-66; Minister of Agriculture 1966-68, of Educ. 1968-69; Minister of State for Social Affairs 1972-73; Pres. of Nat. Assembly 1973-78; Hon. Pres. Mouvement pour le socialisme par la participation 1971-; Pres. Assen. for the Preservation and Devt. of Eastern France 1970-; Dir. of Research, Faculté de Droit, Besançon 1970-; Pres. Int. Comm. on Devt. of Educ. 1971-, Int. Inst. of Administrative Sciences 1977-. *Publications:* La Politique française du pétrole, M. Langois n'est pas toujours égal à lui-même (novel), Le Serpent et la Tortue (study of China) 1957, La Disgrâce de Turgot 1961, Etude sur la capitation de Dioclétien d'après le panégyrique VIII, Prévoir le présent 1966, Education nationale et la participation 1968, Philosophie d'une reforme 1969, L'ame du combat 1970, Ce que je crois 1971. *Address:* 83 avenue Foch, Paris 16e, France.

FAURE, Maurice Henri, D. EN D.; French politician; b. 2 Jan. 1922, Azerat (Dordogne); s. of René Faure and Ir'agene Joudinaud; m. Andrée Guillemain 1945; two s.; ed. Lycée de Périgueux, Faculty of Law and Letters, Bordeaux and Toulouse Univs.; Deputy to Nat. Assembly (Lot) 1951-; Sec. of State for Foreign Affairs (Mollet Cabinet) Jan. 1956-June 1957, (Bourgès-Manoury Cabinet) June-Nov. 1957, (Gaillard Cabinet) Nov. 1957-May 1958; Minister for European Institutions May-June 1958; Pres. French del. Common Market and Euratom Conf., Brussels 1956; mem. del. 11th Session UN Gen. Assembly, New York 1956; Special Asst. Minister for Foreign Affairs on Morocco and Tunisia Nov. 1956-June 1957; mem. European Coal and Steel Community Assembly; fmr. Mayor of Prayssac (Lot); Counseiller Général, Salviac canton (Lot) 1957-58; Pres. Departmental Assen. of Mayors of Lot, Mouvement Européen; Pres. Entente Démocratique of the Nat. Assembly 1960-62; Pres., later Leader, Parti Republicain Radical et Radical-Socialiste 1961-65, 1969-71; Pres. Rassemblement Démocratique Group, Nat. Assembly 1962; Pres. Econ. Devt. Comm. for Midi-Pyrénées 1964-70; Mayor of Cahors 1965-; Pres. du Conseil Général du Lot 1970; resigned from Rassemblement pour la République May 1977; Commdr. du Mérite Civil and other awards. *Address:* Assemblée Nationale, Paris 7e; 28 boulevard Raspail, Paris 7e, France.

FAUTEUX, Rt. Hon. Joseph Honoré Gérald, P.C., C.C., LL.L., D.C.L., LL.D.; Canadian judge; b. 22 Oct. 1900, St. Hyacinthe, Quebec; s. of Homère Fauteux and Héva Mercier; m. Yvette Mathieu 1929; two s. three d.; ed. Coll. Ste. Marie, Montreal and Univ. of Montreal; called to the Bar of Quebec 1925; practised law in Montreal; Crown Attorney 1929; cr. K.C. 1933; Asst. Senior Crown Prosecutor, Montreal 1930-36; Chief Crown Prosecutor 1939-44; Justice Superior Court, Quebec 1947; Justice, Supreme Court of Canada 1949; Legal Adviser, Royal Comm. on spying activities in Canada 1946; mem. Comm. on Revision of Criminal Code in Canada; fmrly. Legal Adviser Royal Canadian Mounted Police; Pres. Cttee. of Inquiry into Remission Br., Dept. of Justice 1953; Vice-Pres. Conf. on the Family 1963; Chief Justice of Canada and Pres. of Canadian Judicial Council 1970-73; Prof. of Law, McGill Univ. 1936-50, Dean 1949; Dean, Faculty of Law, Ottawa Univ. 1953-62; Chair. Bd. of Govs. 1965-66, Chancellor 1970; mem. Canadian Bar Assen. (Hon. Sec. 1941-47); Hon. LL.D. (Ottawa) 1953, (Laval) 1957, (Sudbury) 1958, (Montreal) 1962; Hon. D.C.L. (McGill Univ. 1955); Companion, Order of Canada 1974. *Leisure interests:* gardening, fishing, outdoor sports. *Address:* 937 St. Clare Road, Town of Mount Royal, Quebec, H3R 2M8, Canada.

FAUVET, Jacques, L. EN D.; French editor; b. 9 June 1914, Paris; s. of Pierre Fauvet and Andrée (née Meunier-Pouthot); m. Claude Decroix 1939; five c.; ed. Lycée St. Louis, Paris, and Faculté de Droit, Univ. de Paris; an editor, l'Est Républicain, Nancy 1937-39; joined Le Monde 1945, Head of Domestic Politics Dept. 1948-58, Asst. Ed.-in-Chief 1958-63, Ed.-in-Chief 1963-, Gen. Ed. 1968, Dir.-Gen. 1969-; Officier Légion d'honneur, Croix de guerre (1939-45). *Publications:* Les partis politiques dans la France actuelle 1947, Les forces politiques en France 1951, La France déchirée 1957, La politique et les paysans 1958, La IVe République 1959, La fronde des généraux 1961, Histoire du parti communiste français, Vol. I 1964, Vol. II 1965, combined edn. 1977. *Address:* Le Monde, 5 rue des Italiens, Paris 9e; 5 rue Louis-Boilly, Paris 16e, France. *Telephone:* 246-72-23.

FAVRE, Alexandre Jean Auguste; French scientist; b. 23 Feb. 1911, Toulon; s. of Auguste Favre and Annie Mercure; m. Luce Palombe 1939; three c.; ed. Univs. Aix-Marseille and Paris. Asst.

Lecturer, Faculty of Science, Univ. of Marseilles 1932-38, Lecturer 1938-41, Asst. Prof. 1941-45, Assoc. Prof. 1945-51, Prof. 1951-, Dir. Inst. of Mechanical Statistics of Turbulence 1960-; Scientific Asst. Ministry of Air 1932; Scientific Counsellor, Nat. Office of Aerospatial Studies and Research 1947, Atomic Energy Commissariat 1958; mem. Nat. Cttee. for Scientific Research 1963, Nat. Cttee. for Univs. 1972-75, Mathematical Soc. of France, Physical Soc. of France, American Physical Soc., Acad. des Sciences, Acad. des Sciences, Lettres, Arts de Marseille; Pres. Fédération Universitaire de Mécanique; Chevalier Légion d'honneur, Officier, Ordre nat. du Mérite, Commdr. des Palmes académiques. *Major Research includes:* hypersustentation 1934, hyperconvection 1951; inventor of centrifugal sub-trans-supersonic compressor 1940; inventor of apparatus for statistical measurement of time correlation 1942, and of appliance for detection of random noise 1952; research on turbulence of fluids and space-time correlations 1942-78, and on statistical equations of turbulent compressible gas 1948-78. *Leisure interests:* international trips, relations. *address:* Institut de Mécanique Statistique de la Turbulence, 12 avenue Général Leclerc, 13 Marseille; La Cadenelle, 122 rue Ct. Rolland, Marseille 8, France (Home). *Telephone:* 641650 (Office); 776586 (Home).

FAWCETT, Don Wayne, M.D.; American anatomist; b. 14 March 1917, Springdale, Iowa; s. of Carlos J. Fawcett and Mary Mable Kennedy; m. Dorothy Secrest 1941; two s. two d.; ed. Harvard Coll., Harvard Medical School. Capt., Medical Corps, U.S. Army 1943-46; Research Fellow in Anatomy, Harvard Medical School 1946, Instructor 1946-68, Assoc. 1948-51, Asst. Prof. 1951-55, Hersey Prof. of Anatomy and Head of Dept. 1959-, Curator, Warren Anatomical Museum 1961-70, James Stillman Prof. of Comparative Anatomy 1962-, Sr. Assoc. Dean for Preclinical Affairs 1975-77; Prof. and Chair. Dept. of Anatomy, Cornell Medical Coll. 1955-59; Pres. American Assen. of Anatomists 1965-66, American Soc. for Cell Biology 1961-62, Int. Fed. of Socs. for Electron Microscopy 1976-79; mem. Nat. Acad. of Sciences, American Soc. of Zoologists, American Soc. of Mammalogists, Electron Microscope Soc. of America, Int. Soc. for Cell Biology, etc.; Fellow A.A.A.S., American Acad. of Arts and Sciences, New York Acad. of Sciences, etc.; D.Sc. h.c. (Siena) 1974, (New York Medical Coll.) 1975, (Chicago) 1977, (Cordoba) 1978, D.Vet.Med. h.c. (Justus Liebig Univ.) 1977, M.D. h.c. (Heidelberg) 1977. *Publications:* Over 150 papers and two textbooks on histology, cell biology and reproductive biology. *Leisure interests:* photography of wild animals, shell collecting, zoological research. *Address:* Department of Anatomy, Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115, U.S.A.

FAWCETT, James Edmund Sandford, M.A., D.S.C.; British barrister-at-law; b. 16 April 1913, Didcot; s. of Joseph and Edith Fawcett; m. Frances B. Lowe 1937; one s. four d.; ed. Rugby School, and New Coll., Oxford; practised at the Bar 1937-39, 1950-55, 1972-; Asst. Legal Adviser, Foreign Office 1945-50; Gen. Counsel, IMF 1955-60; Fellow, All Souls Coll., Oxford 1938, 1960-69; mem. European Comm. of Human Rights 1962-, Pres. 1972-; Dir. of Studies, Royal Inst. of Int. Affairs 1969-73; Chair. British Inst. of Human Rights 1976-; Prof. of Int. Law, King's Coll., London 1976–. *Publications:* British Commonwealth in International Law 1963, Application of the European Convention on Human Rights 1968, The Law of Nations 1969, International Economic Conflicts 1977. *Leisure interests:* astronomy, piano. *Address:* Field House, Combe, nr. Newbury, Berkshire, England. *Telephone:* 04884-474.

FAWZI, Ahmad Muhammad Al-Salem; Jordanian civil engineer and politician; b. 1927, Amman; m.; ed. Baghdad Coll. and in U.S.A. Engineer, Amman 1950-51; District Engineer, Maa'n 1951-53; Chief of Technical Section for Bldgs. June-Oct 1953; Asst. Under-Sec., Ministry of Public Works 1953, Under-Sec. 1959; apptd. responsible for all aspects of road design and construction 1955; mem. Devt. Bd. and Chief of Exec. Cttee. of Cen. Water Authority 1959; Govt. Rep. at Potash Co. 1959-61; mem. Exec. Cttee. of Hejaz Railway Redevt. Scheme 1962; Mayor of Amman 1964-; Minister of Municipal and Rural Affairs and Minister of State to Prime Minister 1967-68; Minister of Public Works 1968-69; Sec. Civil Eng. Union; Chair. Housing Corpn. Bd., Hidjaz Railway Reconstruction Cttee.; Al Kawkab Medal (2nd Grade), Al Nahada Medal (2nd Grade), Alawi Medal of Morocco. *Address:* c/o Municipality of Amman, Amman, Jordan.

FAWZI, Mahmoud; Egyptian politician; b. 1900; ed. Univs. of Cairo, Rome, Liverpool and Columbia Univ. Vice-Consul, New York and New Orleans 1926-29; Consul, Kobe, Japan 1929-36; 2nd Sec. Athens 1936-37; Consul, then Consul-Gen. Liverpool 1937-40; Dir. Dept. of Nationalities, Ministry of Foreign Affairs 1940-41; Consul-Gen., Jerusalem 1941-44; Egyptian rep. Security Council, UN 1946; alternate rep. UN Gen. Assembly, New York 1946; later perm. rep. of Egypt to UN; Amb. to Great Britain 1952; Minister of Foreign Affairs 1952-58; Minister of Foreign Affairs, United Arab Republic 1958-64; mem. Presidency Council 1962-64; Dep. Prime Minister for Foreign Affairs 1964-67; President's Asst. for Foreign Affairs and Vice-Pres. 1967-68; Prime Minister 1970-72; Vice-Pres. of Egypt 1972-74. *Address:* c/o Office of the Vice-President, Cairo, Egypt.

FAYAT, Henri, D.LL.; Belgian lawyer and politician; b. 28 June 1908, Molenbeek-Saint-Jean; ed. Royal Athenaeum, Brussels and Univ. of Brussels. Advocate, Brussels 1935-73; Legal Attaché, Belgian Foreign Office, London 1942-43; Chief Assistant to the Belgian Ministry of the Interior, London 1943, and in Brussels 1944; Chief Asst. to Deputy Prime Minister 1944-45; mem. House of Reps. 1946-71; Prof. Faculty of Law, Univ. of Brussels (Vrije Universiteit) 1948-78; mem. Consultative Assembly of the Council of Europe 1949-50, Common Assembly of the European Coal and Steel Community 1954-57; Minister of Foreign Trade 1957-58, 1968-71; Deputy Foreign Minister 1961-66; Sec. of State for Foreign Trade 1972-73, for Ports Policy 1973; Chair. Brussels Conf. on British application for membership of EEC 1963; Chair. Acad. Bd., Programme on Int. Legal co-operation, Vrije Universiteit, Brussels 1975-; Chair. Algemeen Nederlands Verbond. *Address:* 51A Aarlenstraat, 1040 Brussels, Belgium.

FAYE, Jean Pierre; French writer; b. 19 July 1925; ed. Univ. de Paris à la Sorbonne; teacher, Lycée de Reims 1951-54; Exchange Fellow Univ. of Chicago 1954-55; Asst. Prof. Univ. de Lille 1955-56, Univ. de Paris à la Sorbonne 1956-60; Research, Centre Nat. de la Recherche Scientifique 1960-64; Founder of the Collectif Change and Centre d'Analyse et de Sociologie des Langages (C.A.S.L.); Prix Renaudot 1964. *Publications:* Novels: Entre les rues 1958, La cassure 1961, Battement 1962, Analogues 1964, L'écluse 1964, Les troyens 1970; Poems: Fleuve renversé 1959, Théâtre 1964, produced in Odéon Théâtre de France by Roger Blin 1965, Couleurs pliées 1965; Essays: Le récit hunique 1967, Langages totalitaires, Théorie du récit 1972, La critique du langage et son économie 1973, Migrations du récit sur le peuple juif 1974, Inferno versions 1975, L'ovale 1975; Ed. of the review Change 1968. *Address:* Editions Seghers-Laffont, 6 place Saint Sulpice, Paris 6e, France.

FAZEKAS, János; Romanian politician; b. 16 Feb. 1926, Lupeni, Hunedoara County; s. of János and Zsuzsánna Fazekas; m. Erzsébet Fazekas 1949; two s. Mem. Union of Communist Youth 1944, Sec. for Odorheiul-Secuiesc District 1944, for Braşov and then for Mureş 1946-47, mem. of Bureau 1946, Sec. of Cen. Cttee. Union of Communist Youth 1950-54; Deputy to Grand Nat. Assembly 1950; mem. Romanian CP 1954-, mem. Cen. Cttee. 1954-, Sec. 1954-61; Minister of Food Industry 1961-65; Vice-Chair. Council of Ministers 1965-; Minister of Internal Trade 1974-; Alt. mem. of Exec. Political Cttee. of Cen. Cttee. 1965-67, mem. 1967-; Chair. Council on Co-ordination and Guidance of Supplies and Services for the Population 1977-; mem. Acad. of Social and Political Sciences 1970; Hero of Socialist Labour. *Leisure interests:* political science, economics, history and literature. *Address:* Ministry of Internal Trade, Str. Doamnei, Bucharest, Romania. *Telephone:* 14 56 80.

FEDERSPIEL, Per T.; Danish barrister; b. 9 April 1905, Berlin, Germany; s. of Holger Federspiel and Asta (née Nutzhorn); m. Elin Zahle 1934; three s.; ed. Harrow School and Copenhagen Univ. London corresp. to Danish newspapers 1931-32; Sec. to Danish Counsel in the East Greenland sovereignty case at the Int. Court at The Hague 1932-33; Counsel at the Danish Courts of Appeal 1937; Hon. Legal Adviser to the British Embassy, Copenhagen 1945-77; Minister of Special Affairs 1945-47; mem. Danish Parl. 1947-73; Del. to the UN Assembly 1946-49; mem. UN Palestine Comm. 1947-48, Consultative Assembly, Council of Europe 1949-71, Chair. 1960-63; Chair. Econ. Cttee. 1953-60; mem. European Parl. 1973-74; Vice-Pres. Int. Comm. of Jurists, mem. Exec. Cttee. 1963-; Hon. Gov. Atlantic Inst. 1963-; Hon. K.B.E.; Liberal. *Leisure interests:* history, antiques, game shooting. *Address:* 38 Dyrehavegaardsvej, DK-2800, Lyngby, Denmark. *Telephone:* 01-135800 (Office); 02-880009.

FEDORENKO, Nikolay Prokofiyevich; Soviet economist; b. 28 April 1917, Preobrazhenskoe Village, Zaporozhye Region; m. Dljacina Nina Fedorenko; one d.; ed. Moscow M. V. Lomonosov Inst. of Fine Chemical Technology and Higher Party School of C.P.S.U. Cen. Cttee. Soviet Army 1942-45; Instructor, Head of Dept., Moscow M. V. Lomonosov Inst. of Fine Chemical Technology 1946-62; Deputy Academician-Sec. Dept. of Econs., U.S.S.R. Acad. of Sciences 1962-63; Dir. Central Econ.-Mathematical Inst., U.S.S.R. Acad. of Sciences 1963-; Corresp. mem. U.S.S.R. Acad. of Sciences 1962-64, Academician 1964-; State Prize 1970. *Publications:* numerous works on economics of chemical industry. *Leisure interests:* Russian and foreign painting. *Address:* V-333 ul. Vavilova 44, bld. 2, Moscow, U.S.S.R. *Telephone:* 135-88-30.

FEDORENKO, Nikolay Trofimovich, D.PHIL.; Soviet sinologist and diplomatist; b. 22 Nov. 1912, Pyatigorsk, Stavropol; s. of Matrena and Trofim Fedorenko; m. Alla Fedorenko 1943; three d.; ed. Moscow Inst. of Oriental Studies. Diplomatic service 1939-; Counsellor, Soviet Embassy, Chungking 1946; Chargé d'Affaires, Nangking 1948, Peking 1952; Head, First Far East Dept. (China); mem. Policy Planning Bd., Ministry of Foreign Affairs 1950-55; Deputy Foreign Minister 1955; Amb. to Japan 1958-62; Perm. Rep. to UN 1962-68; on staff of Ministry of Foreign Affairs 1968-69; Senior Assoc. Inst. of Peoples of Asia, U.S.S.R. Acad. of Sciences 1968-; Ed.-in-Chief Foreign Literature monthly 1970, Sec. Bd. of Writers' Union of U.S.S.R. 1970; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-; Hon. mem. Accademia Fiorentina. *Publications:* fifteen books and over 100 articles on Chinese literature. *Address:* Institute of Oriental Studies, Armyansky pereulok 2, Moscow, U.S.S.R. *Telephone:* 233-5147, 157-3895.

FEDOROV, Nikolay Aleksandrovich; Soviet haematologist; b. 11 Jan. 1904, Voronezh; ed. Voronezh Univ. Sr. Research Assoc. Cen. Inst. of Haematology and Blood Transfusion 1929-33; Head of Lab. 1933, Head of Dept., Moscow Stomatology Inst. 1943-; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1957-, mem. 1963-; mem. Bd. Int. Soc. of Haematologists; Order of Red Banner of Labour. *Publications:* Over 100 works on blood transfusion and conservation, new blood and plasma substitutes, especially heteroproteoseones; established existence and duration of burn putoantigens thus creating a new trend in haematology (immunchemotherapy). *Address:* Central Institute of Blood Transfusion, U.S.S.R. Ministry of Public Health, 4 Novozykovsky pereulok, Moscow, U.S.S.R.

FEDOROV, Viktor Stepanovich; Soviet politician; b. 1912; ed. Grozny Oil Inst.; mem. CPSU 1939-; Dir. Grozny Oil Inst. 1937-40; in oil industry 1940-46; First Deputy Minister of Oil Industry 1946-57; Chair. of Council for Nat. Economy of Bashkir Econ. Region 1957-58; Chair. of State Cttee. for Oil Refining and Petro-Chemicals for Gosplan U.S.S.R. 1958-64; Minister of Oil Refining and Petro-Chemicals 1965-; Deputy Supreme Soviet 1958-; alt. mem. Cen. Cttee. CPSU 1961-76, mem. 1976-; Hero of Socialist labour, Order of Lenin (twice), Hammer and Sickle Gold Medal and other awards; State Prize U.S.S.R. *Address:* Ministry of Oil Refining and Petro-Chemicals, 1 Ulitsa Marx-Engels, Moscow, U.S.S.R.

FEDOROV, Yevgeniy Konstantinovich; Soviet geophysicist; b. 10 April 1910, Bendery, Moldavian S.S.R.; ed. Leningrad Univ.; polar station, Franz Joseph Land 1932-33, Cape Chelyuskin 1934-35; Geophysicist and Astronomer, Soviet Drifting Station North Pole 1 1937-38; Chief of Bd. Hydrometeorological Service, U.S.S.R. Council of Ministers 1939-47, 1963-; Geophysical Inst., U.S.S.R. Acad. of Sciences 1947-55, Dir. Inst. of Applied Geophysics 1955-, Chief Scientific Sec. Presidium of U.S.S.R. Acad. of Sciences 1960-62; mem. CPSU; mem. Presidium, U.S.S.R. Supreme Soviet 1977–; Academician 1960-; State Prize 1946; Order of Lenin (four times), Hero of the Soviet Union, Order of Kutuzov 2nd Class, Order of Patriotic War 1st Class (2), Order of the Red Banner of Labour. *Publications:* Astronomical Measurements 1940, Meteorological Instruments and Observations 1941-45, Principal Problems of Hydrometeorological Service 1946, Influence of Atomic Blasts on Meteorological Processes 1956, Physical Methods of Influence on Weather 1959, Some Problems of Developments of Sciences of Earth 1962, Active Influence on Meteorological Processes 1962, etc. *Address:* Chief Board of the Hydrometeorological Service, per. Pavlika Morozova 12, Moscow, U.S.S.R.

FEDOSEYEV, Pyotr Nikolayevich; Soviet philosopher; b. 22 Aug. 1908, Starinskoe Village, Gorky Region; ed. Gorky Teachers' Inst. and Moscow Inst. of History, Philosophy and Literature; Dir. U.S.S.R. Acad. Inst. of Philosophy 1955-62, Dir. Inst. of Marxism-Leninism 1967-73; mem. U.S.S.R. Acad. of Sciences 1960-, Vice-Pres. and Chair. section of Social Sciences 1962; mem. CPSU 1939, mem. Cen. Cttee. 1962-; Deputy to U.S.S.R. Supreme Soviet 1961–; mem. U.S.S.R. Parl. Cttee.; mem. Int. Social Services Council 1977–, Inst. Int. de Philosophie; Foreign mem. of G.D.R. and Polish Acads. of Sciences; Hon. mem. Hungarian, Bulgarian and Czechoslovakian Acads. of Sciences; Chair. U.S.S.R.-Hungarian Friendship Soc.; Order of Lenin (four times); Order of Patriotic War, Order of Red Banner of Labour (twice), Hero of Socialist Labour 1978. *Publications:* How Did Human Society Appear? 1934, Historical Materialism as a Science About the Laws of Society Development 1954, Productive Forces and Relations of Production of Socialist Society 1955, Socialism and Humanism 1958, Communism and Philosophy 1962, 1972, Marxism in XX Century 1972, 1977, Dialectics of the Contemporary Epoch 1966, 1972, 1978, The Leninist Theory of Socialist Revolution and Modernity 1975, The Philosophy of Fodor Pavlov 1975, Economic Problems of developing the Murmansk Region (ed.). *Address:* U.S.S.R. Academy of Sciences, 17 Leninsky Prospekt, Moscow, U.S.S.R.

FEHÉR, Lajos; Hungarian politician; b. 1917; ed. Univ. of Debrecen; secondary school teacher; Deputy Chief, Political Police; Man. Ed. Szabad Föld; mem. Editorial Bd. Szabad Nép; mem. Cen. Cttee. Hungarian Socialist Workers' Party 1956-, Sec. 1959-62, mem. Political Cttee. 1956-75; Deputy Prime Minister 1962-74; mem. Govt. Econ. Cttee. 1962-73; mem. State Planning Cttee. 1973-74; Pres. Hungarian Fed. of Partisans; Order of Merit of the Hungarian People's Republic 1977. *Address:* Partisan Federation, Szabadsag tér 16, Budapest V, Hungary. *Telephone:* 111-480.

FEICHTINGER, Arne Ferdinand, M.S. IN ENG.; Swedish electrical executive; b. 29 Oct. 1906, Örby, Älvsborgs Län; s. of Ferdinand Feichtinger and Alma (née Andersson); m. Ruth Inez Krutmeijer 1934; Electrical Engineer, Siemens & Halske AG, Berlin-Siemensstadt 1928-29; Sales Man., Svenska Siemens AB, Stockholm 1930-38, Dir. 1939-51, Vice-Pres. 1952-54, Pres. 1955-69, Chair. and Chief Exec. Officer 1970-72; mem. Bd. of Dirs., Siemens Corpn., New York 1970-76, Elema-Schönander AB, Stockholm 1970-72, Telub AB, Växjö 1967-69, ELIF, Stockholm 1956-72; mem. R.S.A., and many asscns.; del. to numerous int. confs.; Knight (1st Class) Order of Vasa, Order of Merit FRG (First Class). *Leisure interest:* travelling. *Address:* 27 Villavägen, S-182 75 Stocksund, Sweden.

FEIFFER, Jules; American cartoonist and writer; b. 26 Jan. 1929, New York; s. of David Feiffer and Rhoda Davis; m. Judith Sheftel 1961; one d.; ed. Art Students League, Pratt Inst.; asst. to syndicated cartoonist Will Eisner 1946-51; cartoonist, author, syndicated Sunday page, Clifford, engaged in various art jobs 1953-56; contributing cartoonist Village Voice, New York City 1956-; cartoons published weekly in The Observer (London) 1958-66, 1972-, monthly in Playboy (magazine); cartoons nationally syndicated in U.S. 1959-; sponsor Nat. Cttee. for Sane Nuclear Policy; U.S. Army 1951-53; Acad. Award for Animated Cartoon, Munro 1961; Special George Polk Memorial Award 1962. *Publications:* books: Sick, Sick, Sick 1959, Passionella and other stories 1960, The Explainers 1961, Boy, Girl, Boy, Girl, 1962, Hold Me! 1962, Harry, The Rat With Women (novel) 1963, Feiffer's Album 1963, The Unexpurgated Memoirs of Bernard Mergendeiler 1965, The Great Comic Book Heroes 1967, Feiffer's Marriage Manual 1967, Pictures at ■ Prosecution 1971, Ackroyd (novel) 1978; plays: Crawling Arnold 1961, Little Murders 1966, God Bless 1968, The White House Murder Case 1970, Feiffer on Nixon: The Cartoon Presidency 1974, Knock Knock 1975; screenplays: Little Murders 1971, Carnal Knowledge 1971. *Address:* c/o Field Newspaper Syndicate, 401 N Wabash Avenue, Chicago, Ill. 60611, U.S.A.

FEINBERG, E. L. (*see* Feinberg, Yevgeniy Lvovich).

FEINBERG, Nathan, DR.JUR.UTR.; Israeli emeritus professor; b. 6 June 1895, Kovno, Russia; s. of Leon Feinberg and Henia (née Ratner) Feinberg; m. 1st Judith Ostrovsky-Mevorach 1925 (deceased), 2nd Anna Hirshowitz 1974; ed. Univ. of Zürich and Graduate Inst. of Int. Studies, Geneva; Head of Dept., ministry of Jewish Affairs, Lithuania 1919-21; Sec. Cttee. of Jewish Dels., Paris 1922-24; law practice in Palestine 1924-27 and 1934-45; Lecturer, Univ. of Geneva 1931-33; Lecturer, Hebrew Univ., Jerusalem 1945-49, Assoc. Prof. 1949-52, Prof. of Int. Law and Relations 1952-66, Emer. Prof. 1966-, Dean of Faculty of Law 1949-51; mem. Perm. Court of Arbitration; mem. Inst. Int. Law; mem. Board of Govs. Hebrew Univ.; Worthy of Jerusalem; Dr. Philosophiae h.c. (Hebrew Univ., Jerusalem). *Publications:* La question des minorités à la conférence de la paix de 1919-1920 et l'action juive en faveur de la protection internationale des minorités 1929, La jurisdiction de la Cour Permanente de Justice Internationale dans le système des mandats 1930, La juridiction de la Cour Permanente de Justice dans le système de la protection internationale des minorités 1931, La pétition en droit international 1933, Some Problems of the Palestine Mandate 1936, L'admission de nouveaux membres à la Société des Nations et à l'Organisation des Nations Unies 1952, The Jewish Struggle against Hitler in the League of Nations—the Bernheim Petition (in Hebrew) 1957, The Legality of a 'State of War' after the Cessation of Hostilities 1961, Palestine under the Mandate and the State of Israel—Problems in International Law (in Hebrew) 1963, The Jewish League of Nations Societies (in Hebrew) 1967, The Arab-Israel Conflict in International Law 1970, On an Arab Jurist's Approach to Zionism and the State of Israel 1971; co-editor The Jewish Year Book of International Law 1949; editor Studies in Public International Law in Memory of Sir Hersch Lauterpacht (in Hebrew) 1962. *Address:* 6 Ben Labrat Street, Jerusalem 92307, Israel. *Telephone:* 33345.

FEINBERG, Yevgeniy Lvovich; Soviet physicist; b. 27 June 1912, Baku; s. of Dr. L. B. Feinberg and T. A. Feinstein; m. Valentine Konen 1932; one d.; ed. Moscow Univ.; Postgraduate, Moscow Univ., 1935-38; Research Assoc., Lebedev Inst. of Physics U.S.S.R. Acad. of Sciences 1938-, Head of Sector 1952-; Lecturer, Asst. Prof. Moscow Power Inst. 1935-39; Prof. Gorky Univ. 1944-45; Prof. Moscow Eng. Physics Inst. 1946-54; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-. *Publications:* Works on radiophysics, nuclear physics, cosmic rays, statistical acoustics and elementary particles. *Leisure interests:* chess, history of art and science. *Address:* P. N. Lebedev Institute of Physics, 53 Leninsky Prospekt, Moscow B-333, U.S.S.R.

FELDBERG, Wilhelm Siegmund, C.B.E., M.A., M.D., F.R.C.P., F.R.S.; British physiologist; b. 19 Nov. 1900, Hamburg, Germany; s. of Emil Daniel and Amalie (née Bacharach) Feldberg; m. 1st Katherine Scheffler 1925 (deceased); one s. (deceased) one d.; m. 2nd Kim O'Rourke 1977; ed. Univ. of Berlin; Reader in Physiology, Cambridge Univ. until 1949; Head of Physiology and Pharmacology Div., Nat. Inst. for Medical Research, London 1949-65, Hon. Head 1965-66; Head, Lab. of Neuropharmacology, Nat. Inst.for Medical Research 1966-74, Grant Holder 1974-; Hon. Lecturer, Univ. of London 1950-; Fellow, Royal Soc. 1947-; Ferrier Lecturer 1974; Hon. mem. Physiological Soc., British Pharmacological Soc., Royal Soc. of Medicine, German Physiological Soc., German Pharmacological Soc., Berliner Medizinische Gesellschaft; Hon. M.D. (Freiburg, Berlin, Cologne, Liège); Hon. D.Sc. (Bradford Univ.) 1973, Hon. LL.D. (Glasgow Univ.) 1976, (Aberdeen Univ.) 1977; Grand Cross, Order of Merit, Federal Republic of Germany 1961; Baly Medal 1963; Schmiedeberg Plakette 1969, Philip Stöhr Medal 1970. *Publications:* Histamin (with E. Schilf), A Pharmacological Approach to the Brain from its Inner and Outer Surface 1963; numerous articles in medical and scientific journals. *Leisure interests:* women's fashions, collecting antique furniture. *Address:* National Institute for Medical Research, Mill Hill, London, NW7 1AA; Lavenham, 74 Marsh Lane, Mill Hill, London NW7 4NT, England (Home).

FELDMAN, Myer, B.S. (ECON.), LL.B.; American lawyer and politician; b. 22 June 1917, Philadelphia, Pa.; s. of Israel and Bella Kurland Feldman; m. Silva Moskovitz 1941; one s. and one d.; ed. Univ. of Pennsylvania; Gowen Fellow, Univ. of Pennsylvania 1938-39, Prof. of Law 1940-42; Special Counsel, SEC, Exec. Asst. to Chair., SEC 1949-53; Counsel, Senate Banking and Currency Cttee. 1955-57; Prof. of Law, American Univ. 1956-59; Legislative Asst., Senator John F. Kennedy 1958-61; Dir. of Research, Democratic Nat. Cttee. 1960; Deputy Special Counsel to Pres. of the United States 1961-64, Counsel 1964-65; Gov. Weizmann Inst., Israel 1962–; Overseer Coll. of the Virgin Islands 1963-; Trustee, Eleanor Roosevelt Foundation 1963-76, United Jewish Appeal 1965-, Jewish Publication Soc. 1965-; Chair. Bd. Speer Publs., Capital Gazette Press Ind., Bay Publs. 1968-75; Contributor to The Saturday Review 1965-71; partner Ginsburg and Feldman 1965-; Dir. Flying Tiger Line 1966-, Flame of Hope, Inc. 1967-; Del. to Democratic Nat. Convention 1968; Chair. Bd. of Dirs. of WWBA Inc., WLLH Inc. and WADK Inc.; mem. Exec. Cttee., Bd. of Dirs., Nat. Savings and Trust Co. 1976-; Vice-Chair. Congressional Leadership for the Future 1970; Pres. New York Int. Art Festival 1973-; Pres. McGovern for Pres. Cttee. 1972; Chair. and Treas. Birch Bayh for Pres. Cttee. 1975-76; Democrat. *Publications:* Standard Pennsylvania Practice (4 vols.). *Leisure interests:* tennis, swimming. *Address:* 1700 Pennsylvania Avenue, N.W., Washington, D.C. 20006, U.S.A. *Telephone:* 639-9025.

FELDT, Kjell-Olof, PH.D.; Swedish politician; b. 8 Aug. 1931, Holmsund; ed. Univs. of Uppsala and Lund; Under-Sec., Ministry of Finance 1967-70; Minister of Trade 1970-75; Minister without Portfolio 1975-76; Social Democratic Labour Party. *Address:* Socialdemokratiska Arbetarepartiet, 10560 Stockholm, Sweden.

FELFE, Werner; German politician; b. 4 Jan. 1928, Grossröhrsdorf; mem. Communist Party of Germany (KPD) 1945; mem. Sozialistische Einheitspartei Deutschlands (SED) 1946-; First Sec. of SED Kreis Flöha 1950-53; Second Sec. of Cen. Council of Freie Deutsche Jugend (FDJ) 1954-57; mem. Volkskammer 1954-58; cand. mem. Cen. Cttee. of SED 1954-63, mem. 1963-; cand. mem. of Politburo 1973-76, mem. 1976-; Student at Univ. Dresden 1963-65; Sec. for Agitation 1966-68, Second Sec. 1968-71; First Sec. of SED Bezirk Halle 1971-; Vaterländischer Verdienstorden in Silver and other decorations. *Address:* Sozialistische Einheitspartei Deutschlands, 102 Berlin, Am Marx-Engels-Platz 2, German Democratic Republic.

FELICI, H.E. Cardinal Pericle, Italian ecclesiastic; b. 1 Aug. 1911; ordained Priest 1933; Titular Archbishop of Samosata 1960–; Pres. Comm. on Revision of Canon Law, fmr. Pres. Comm. on Interpretation of Decrees of Second Vatican Council; created Cardinal by Pope Paul VI 1967; Prefect of Apostolic Signatura, Tribunal of Roman Curia. *Address:* Via Pfeiffer 10, 10093 Rome, Italy.

FELLINI, Federico; Italian film director; b. 20 Jan. 1920; m. Giulietta Masina (q.v.); Screen writer: Quarta pagina 1942, Roma città aperta 1944-45, Paisa 1946, Il delitto di Giovanni Episcopo 1947, In nome della legge 1948-49, La città si difende 1951, Il brigante di Tacca di Lupo 1953, etc.; Dir. Lo sceicco bianco 1952, I vitelloni 1953, La strada (Oscar) 1954, Il bidone 1955, Le notti di Cabiria (Oscar) 1957, Fortunella 1958, La Dolce Vita (Cannes 1st Prize) 1960, The Temptation of Dr. Antonio (from Boccaccio 70) 1962, 8½ (Oscar) 1963, Giulietta degli spiriti (Golden Globe, Hollywood) 1964, Satyricon 1969, Never Bet the Devil Your Head (from Spirits of the Dead) 1969, I Clowns (television film) 1971, Roma 1972, Amarcord (New York Film Critics' Circle Award 1974) 1973, Casanova 1976; has always written scripts for his own films. *Address:* 141a Via Margutta 110, Rome, Italy.

FELLNER, William John; American economist; b. 31 May 1905, Hungary; m. Valerie Korek 1936; one d.; ed. Budapest Univ., Fed. Inst. of Technology, Zürich and Berlin Univ.; industrial man. 1929-38; mem. Dept. of Econs. Univ. of Calif., Berkeley 1939-52; Prof. of Econs. Yale Univ. 1952-74, Sterling Prof. Emer. 1973-, Chair. Dept. of Econs. 1962-64; Consultant U.S. Treas. Dept. 1945, 1949-52, 1969-73, 1975-; mem. Cttee. of Independent Experts OEEC 1959-60; Resident Scholar American Enterprise Inst. 1972-73; mem. Council of Econ. Advisers 1973-75; Fellow, American Acad. of Arts and Sciences; Fellow, Econometric Soc.; Pres. American Econ. Assn. 1969. *Publications:* Monetary Policies and Full Employment 1946, Competition Among the Few 1949, Trend and Cycles in Economic Activity 1956, Emergence and Content of Modern Economic Analysis 1960, Probability and Profit 1965, Economic Policies and Inflation 1972, A New Look at Inflation 1973. *Address:* Department of Economics, Yale University, New Haven, Conn. (Office); 131 Edgehill Road, New Haven, Conn., U.S.A. (Home). *Telephone:* 436-3310 (Office); 777-4186 (Home).

FENG YU-LAN; Chinese philosopher; b. 1895, Tang-ho, Honan; ed. China Acad., Shanghai, Peking Univ. and Columbia Univ., U.S.A. Prof. of Philosophy Chung-chou Univ., Kaifeng 1923, Tsinghua Univ. 1925-52; Dean, Coll. of Arts, Tsinghua Univ. 1933; Visiting Prof. Univ. of Pennsylvania, U.S.A. 1946-47; Dir. Research Dept. of History of Chinese Philosophy, Peking Univ. 1954; Prof. Peking Univ. 1961-68. *Publications:* The Philosophy of Life 1924, A Kind of Outlook on Life 1924, A History of Chinese Philosophers (3 parts) 1930, 1933, 1936, The New Neo-Confucianism 1938, The New World 1939, The New Teachings of the World 1940, The New Origin of Men 1942, The New Origin of Truth 1942, The New Understanding of Speech 1948, A Short History of Chinese Philosophy 1948. *Address:* People's Republic of China.

FENN, Ingemund; Norwegian newspaper editor; b. 18 Sept. 1907, Stryn, Nordfjord; m. Elsa Reinertsen 1941; one s.; univ. education; journalist 1928-; on staff of Bergens Tidende 1936-, Ed. Oslo office and parl. corresp. 1946-56, Chief Ed. 1956-; Pres. Parl. Corresp. Assn. 1951-56; Chair. Norwegian Liberal Press Assn. 1959-71; mem. Bd. Norwegian Editors' Assn., Norwegian Press Assn., Chair. Bd. Norwegian News Bureau; mem. Town Council; Liberal. *Address:* Bergens Tidende, P.O. Box 873, 5001 Bergen (Office); Starefossvei 58B, 5000 Bergen, Norway (Home). *Telephone:* 310900.

FENNER, Frank John, C.M.G., M.B.E., M.D., F.A.A., F.R.S.; Australian research biologist; b. 21 Dec. 1914, Ballarat, Victoria; s. of Dr. and Mrs. Charles Fenner; m. E. M. Roberts 1943; one d.; ed. Thebarton Technical High School, Adelaide High School, Adelaide Univ. Medical Officer, Hospital Pathologist, Australian Forces 1940-43, Malariologist 1943-46; Francis Haley Research Fellow, Walter and Eliza Hall Inst. for Medical Research, Melbourne 1946-48; Travelling Fellow, Rockefeller Inst. for Medical Research 1948-49; Prof. of Microbiology, Australian Nat. Univ. 1949-73, Dir. John Curtin School of Medical Research 1967-73, Dir. Centre for Resource and Environmental Studies 1973-; Foreign Assoc., U.S. Nat. Acad. of Sciences 1977-; Harvey Lecturer, Harvey Soc. of N.Y. 1958; Overseas Fellow, Churchill Coll., Cambridge 1961-62; David Syme Prize, Melbourne Univ. 1949; Mueller Medal 1964; Britannica Australia Award 1967; Flinders Lecture 1967, David Lecture 1973. *Publications:* about 140 scientific papers, mainly on acidfast bacili, pox viruses, viral classification and environmental problems, The Production of Antibodies (with F. M. Burnet) 1949, Myxomatosis (with F. N. Ratcliffe) 1965, The Biology of Animal Viruses 1968, 2nd edn. 1974, Medical Virology (with D. O. White) 1970, 2nd edn. 1976, Classification and Nomenclature of Viruses, Second Report 1976.

Leisure interests: gardening, fishing. *Address:* Centre for Resource and Environmental Studies, Australian National University, Canberra, Australia. *Telephone:* 49-4588.

FENTON, Beatrice; American sculptor; b. 12 July 1887, Philadelphia, Pa.; d. of Thomas H. Fenton, M.D. and Lizzie S. (Remak) Fenton; ed. School of Industrial Art and Pennsylvania Acad. of Fine Arts. *Works include:* Seaweed Fountain, Fairmount Park, Philadelphia 1922, Schmitz Memorial Tablet, Acad. of Music 1926, Garden Figure, Danby Park, Wilmington, Del. 1931, Gate Post Figures at Children's Hospital, Philadelphia 1932, Bust of William Penn for Penn Club, Philadelphia 1932, Fountain, Brookgreen Gardens, S.C. 1932, Bust of Felix E. Schelling, Furness Library, Univ. of Pennsylvania 1935, Bust of Thomas H. Fenton, M.D., Art Club of Philadelphia 1937, Ariel Sun-Dial, Shakespeare Garden, Univ. of Pennsylvania 1938, Drinking Fountain, Hahnemann Medical Coll., Philadelphia 1942, Lizette Woodworth Reese Memorial, Pratt Library, Baltimore, Md. 1943, Evelyn Taylor Price Memorial Sun-Dial, Rittenhouse Square Philadelphia 1948; winning design for Vice-Pres. Barkley Congressional Medal 1950; bust of Joseph Moore for Moore Inst., Philadelphia 1954; Two Fountain groups Fish on Coral Reef, Fairmount Park, Pa. 1964; Da Vinci Bronze Medal 1954; Fellowship of Pa. Acad. of Fine Arts Exhbn. 1967; Widener Gold Medal (Pa. Acad. of Fine Arts) 1922, Bronze Medal, Sesqui-Centennial Int. Exposition, Philadelphia 1926, Percy M. Owens Prize. *Leisure interests:* playing the piano, horseback riding. *Address:* 311 West Duval Street, Philadelphia 44, Pa. (Studio); 621 Westview Street, Philadelphia 19, Pa., U.S.A. *Telephone:* 848-8587 (Studio); 844-4945 (Home).

FERENCSIK, János; Hungarian musician; b. 18 Jan. 1907; ed. Conservatoire, Budapest. Gen. Musical Dir. Hungarian State Opera House until 1973; Gen. Musical Dir. Hungarian State Symphonic Orchestra; Asst. Bayreuth Festival 1930-31; guest conductor Vienna Opera House 1948-50; Hon. Prof. Hungarian Acad. of Music; has given concerts in numerous European countries, Japan, Australia, Argentina, U.S.A., and U.S.S.R.; Hon. Dr. (Chicago Conservatory Coll.); Kossuth Prize 1951, 1961, Eminent Artist; Laurel-adorned Order of the Banner 1977. *Leisure interest:* photography. *Address:* Csopaky-u. 12, H-1022 Budapest, Hungary.

FERGUSON, Clarence Clyde, Jr., A.B., J.D., D.I.L.; American diplomatist and professor of law; b. 4 Nov. 1924, Wilmington, N.C.; s. Clarence Clyde Ferguson and Georgeva Owens Ferguson; m. Dolores Zimmerman Ferguson 1954-1969; three d.; ed. Ohio State Univ., Harvard Law School and Havana Univ.; called to Bar 1951; Teaching Fellow, Law School 1951-52; associated with Baltimore, Paulson and Canudo 1952-54; Asst. U.S. Attorney 1954-55; Prof. of Law, Rutgers Univ. 1955-63; Howard Univ. 1963-70, 1975-; U.S. expert, U.N. sub-comm. on discrimination 1964-; U.S. Amb. to Uganda 1970-72; Deputy Asst. Sec of State for African Affairs 1972-73; U.S. Rep. on the U.N. Econ. and Social Council 1973-75; Special Co-ordinator for Relief to civilian victims of the Nigerian Civil War 1969-70; Trustee, Inst. of Policy Studies 1962-; Hon. LL.D. *Publications:* Desegregation and the Law 1957, 1962, 1970, Trial Presentation 1957, Enforcement Judgements and Liens 1961, Secured Transactions 1961, Racism and American Education 1970, numerous articles and book reviews. *Leisure interests:* art, music. *Address:* Harvard Law School, Cambridge, Mass. 02138, U.S.A.

FERGUSON, Glenn Walker, B.A., M.B.A., J.D., D.S., LL.D.; American administrator; b. 28 Jan. 1929, Syracuse, N.Y.; s. of Forrest E. Ferguson and Mabel W. Ferguson; m. Patricia Lou Head 1950; two s. one d.; ed. Cornell Univ., Georgetown Univ., Univ. of Santo Tomas (Manila), George Washington Univ., Univ. of Chicago and Univ. of Pittsburgh. Staff Assoc. Governmental Affairs Inst., Washington, D.C. 1954-55; Asst. Ed. and Asst. Sec.-Treas., American Judicature Soc., Chicago 1955-56; successively Admin. Asst. to Chancellor, Asst. Dean and Asst. Prof. Graduate School of Public and Int. Affairs, Assoc. Dir., Cordinated Educ. Center, Univ. of Pittsburgh 1956-60; Man. Consultant 1960-61; Special Asst. to Dir., U.S. Peace Corps 1961, Peace Corps Dir. in Thailand 1961-63, Assoc. Dir. 1963-64; Dir. Vista Volunteers, Office of Econ. Opportunity, Washington, D.C. 1964-66; Amb. to Kenya 1966-69; Chancellor, Long Island Univ. 1969-70; Pres. Clark Univ. 1970-73, Univ. of Connecticut 1973-78; named Chief Exec. Radio Free Europe and Radio Liberty 1978; U.S. Air Force 1951-53; Dir. Equator Bank Ltd.; mem. Pres. Task Force on Poverty 1964, Fed. Bar Assn., Council on Foreign Relations; mem. Bd. of Dirs. Private Export Funding Corpn., Foreign Policy Assn. *Address:* RFE/RL Inc., 1201 Connecticut Avenue, N.W., Washington, D.C. 20036, U.S.A.

FERGUSON, Homer, J.D.; American lawyer and politician; b. 25 Feb. 1889, Harrison City, Pa.; s. of Samuel and Margaret (Bush) Ferguson; m. Myrtle Jones 1913; one d.; ed. Pittsburgh Univ., Michigan Univ. Law School; law practice Detroit 1913-29; Circuit Judge Wayne County, Mich. 1929-41; One-man grand jury, Wayne County, Mich. 1939-42; U.S. Senator from Michigan 1943-55; Chair. Republican Policy Cttee. 83rd Congress; mem. Foreign Relations Cttee. and Appropriation Cttee. 83rd Congress; mem. 2nd Hoover Comm.; Amb. to the Philippines 1955-56; resigned 1956 to accept presidential appointment; Judge, U.S. Court of Military Appeals 1956-72, Senior Judge 1972-; mem. Michigan and American Bar Assns.; mem. American Judicature Soc., Washington Inst. of Foreign Affairs, World Peace Thru Law Center; Hon. mem. Interparliamentary Union; Republican. *Leisure interests:* painting, gardening. *Address:* 17111 East Jefferson Avenue, Grosse Pointe, Mich. 48230 (Office); U.S. Court of Military Appeals, Washington, D.C. 20442, U.S.A. (Home). *Telephone:* OX3-7100 (Office).

FERGUSON, James L.; American business executive; ed. Hamilton Coll. and Harvard Business School; served U.S. Army Corps of Engineers in Pacific Theater, World War II; Assoc. Advertising Man. Procter & Gamble Co.; joined Gen. Foods Corpn. 1963, Gen. Man. Birds Eye Div. 1967, Vice-Pres. 1968, Group Vice-Pres. 1970, Exec. Vice-Pres. 1972, Chief Operating Officer 1972, Dir. 1972-, Chief Exec. 1973-, Pres. 1974-77, Chair. 1974-; Dir. Union Carbide Corpn., Grocery Mfrs. of America Inc., Chase Manhattan Bank, Sawyer-Ferguson-Walker Co.; Trustee, Hamilton Coll. *Address:* General Foods Corporation, 250 North Street, White Plains, N.Y. 10625 (Office); 77 Middlebrook Farm Road, Wilton, U.S.A.

FERGUSON, Wallace Klippert, PH.D., LITT.D., F.R.S.C.; Canadian historian; b. 23 May 1902; ed. Univ. of Western Ontario and Cornell Univ.; instructor, New York Univ. 1928-30, Asst. Prof. 1930-40, Assoc. Prof. 1940-45, Prof. 1945; Chair. History Dept., Univ. of W. Ontario 1956, Senior Prof. 1965-74; Pres. Canadian Historical Assn. 1960-61, Renaissance Soc. of America 1965-67, Council of American Historical Assn. 1964-68; Social Science Research Council Fellowship 1927-28; Guggenheim Fellowship 1939-40; Canada Council Medal 1967. *Publications:* Opulscula Erasmi (A Supplement to the Omnia Opera) 1933, A Survey of European Civilization (with G. Bruun) 1936, The Renaissance 1940, The Renaissance in Historical Thought 1948, Europe in Transition 1300-1520 1962, Renaissance Studies 1963. *Address:* 1061 Waterloo Street, London, Ontario, Canada. *Telephone:* 519-432 4751.

FERLINGHETTI, Lawrence; American writer; b. circa 1920, Yonkers, N.Y. *Publications include:* Pictures of the Gone World (poems), Selections from Paroles by Jacques Prévert, A Coney Island of the Mind (poems), Her (novel), Starting from San Francisco (poems), Unfair Arguments with Existence (7 plays), Routines, After the Cries of the Birds (poem), Moscow in the Wilderness, Segovia in the Snow (poem broadside), The Secret Meaning of Things (poems), Tyrannus Nix? (poem), Back Roads to Far Places (poems), Open Eye, Open Heart (poems), The Mexican Night (travel journal), Who are We Now? 1976; also translations, filmscripts and phonograph records. *Address:* c/o City Lights Bookshop, 261 Columbus Avenue, San Francisco, Calif. 94133; c/o J. B. Lippincott Company, East Washington Square, Philadelphia, Pa. 19105, U.S.A.

FERNAND-LAURENT, Jean; French diplomatist; b. 3 Nov. 1917; Paris; s. of Camille Jean Fernand-Laurent; m. Anne-Marie Le Saint 1952; three d.; ed. Sorbonne, Paris, Lyons and Peterhouse, Cambridge. Third Sec., Belgrade 1945-48; First Sec., Moscow 1948-51; Counsellor, Tel-Aviv 1954-58; Consul-Gen., Hamburg 1958-62; First Counsellor, Algiers 1962-64; Perm. Del. to UNESCO 1966-70; Amb. and Perm. Rep. to European Office of UN, Geneva June 1970-; Officier, Légion d'honneur, Croix de guerre, Commdr. Ordre du Mérite. *Publication:* Morale et tyrannie (essay) 1967. *Leisure interest:* social sciences. *Address:* 6 rue de la Tour, 92190 Meudon, France. *Telephone:* 626-14-86.

FERNANDES, George; Indian trade unionist and politician; b. 3 June 1930, Bangalore, Karnataka; ed. St. Peter's Seminary, Bangalore; joined Socialist Party of India 1949; Ed. Konkani Yuvak (Konkani Youth) monthly in Konkani language 1949, Raithavani weekly in Kannada language 1949, Dockman weekly in English 1952-53, also New Society; fmr. Chief Ed. Pratipaksha weekly in Hindi; trade union work in South Kanara 1949, 1950, in Bombay and Maharashtra 1950-58; founding Pres. All-India Radio Broadcasters and Telecasters Guild, Khadi Comm. Karmachari Union, All-India Univ. Employees' Confed.; Pres. All-India Railwaymen's Fed. 1973-74; organized nat. railways strike 1974; Treas. All-India Hind Mazdoor Sabha 1958; formed Hind Mazdoor Panchayat 1958, Gen. Sec. for over 10 years; Convenor, United Council of Trade Unions; fmr. mem. Gen. Council of Public Services Int. (PSI), Int. Transport Workers' Fed. (ITF); Founder Chair. Bombay Labour Co-operative Bank Ltd.; mem. Nat. Cttee. of Socialist Party of

India 1955-77, Treas. 1964, Chair. 1973-77; Gen. Sec. Samyukta Socialist Party of India 1969; mem. Bombay Municipal Corpn. 1961-68; mem. for Bombay City, Lok Sabha 1967-77; went underground on declaration of emergency 1975; arrested and charged in the Baroda Dynamite Case June 1976, case withdrawn March 1977; mem. Lok Sabha for Muzaffarpur, Bihar (elected while in prison) March 1977-; Minister for Communications March-July 1977, for Industries 1977-78; mem. Janata Party 1977-. *Publication:* What Ails the Socialists. *Address:* Ministry of Industries, New Delhi 110001, India.

FERNANDES, Gil Vicente Vaz, M.A.; Guinea-Bissau diplomatist; b. 10 May 1937, Bolama; s. of Anibal Vaz Fernandes and Teresa Pereira Fernandes; ed. Univ. of New Hampshire, The American Univ.; involved for several years in the struggle for nat. liberation of Guinea-Bissau and the Cape Verde Islands; Perm. Rep. of Partido Africano de Indepêndencia da Guiné e Cabo Verde (PAIGC) to Egypt 1968-72, Scandinavia 1972-75; Perm. Rep. of Guinea-Bissau to UN 1975-; Amb. to U.S.A. 1975-. *Address:* 211 East 43rd Street, Suite 604, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 661-3977.

FERNÁNDEZ-CUESTA ILLANA, Nemesio; Spanish lawyer, economist and politician; b. 24 May 1928, Madrid; m. Maria Victoria Luca de Tena y Brunet 1955; seven s. three d.; ed. Cen. Univ., Madrid. Deputy Dir.-Gen. Banco Exterior de España; Under-Sec. for Trade 1969-73; Deputy Gov. Bank of Spain 1973; Minister of Trade 1973-75; Adviser to Spanish del., 23rd UN Gen. Assembly 1968; Journalism Prize (Madrid Chamber of Commerce); Grand Cross of Civil Merit, Order of Isabel la Católica, foreign decorations. *Leisure interests:* football, horse racing. *Address:* Guisando, 26-5°C, Ciudad Puerto de Hierro, Madrid 35, Spain. *Telephone:* 216-54-13 (Home).

FERNÁNDEZ MALDONADO, Gen. Jorge; Peruvian army officer and politician; b. 29 May 1922, Ilo, Moquegua; m. Estela Castro Faucheux; two s. two d.; ed. Chorillos Mil. School. Head of Army Intelligence Service; Dir. of Army Intelligence Service School, also of Mariscal Ramon Castilla Mil. School, Trujillo; Mil. Attaché, Argentina; mem. Pres. Advisory Cttee. (COAP); Minister of Energy and Mines 1968-75; Army Chief of Staff 1975-76; Prime Minister, Minister of War, Commdr. Gen. of Army Feb.-July 1976. c/o Oficina del Primer Ministro, Lima, Peru.

FERNÁNDEZ MIRANDA, Torcuato; Spanish politician; b. 10 Nov. 1915, Gijón; m.; seven c.; ed. Univs. of Oviedo and Madrid. Dir. Senior Coll. of Valdés Salas, Univ. of Oviedo 1949-51, Rector, Univ. of Oviedo 1951-53; Dir.-Gen. of Intermediate Educ. 1954-55; Dir.-Gen. of Univ. Educ. 1956-62; Dir.-Gen. Social Promotion, Ministry of Labour 1962-66; Prof. of Political Law, Central Univ.; mem. Parl. and Nat. Adviser to Chief of State; Minister and Sec.-Gen. Nat. Movement 1969-74; Deputy Prime Minister of Spain 1973-74; Pres. Cortes 1975-77; Senator nominated by King 1977-. *Publications:* La justificación del Estado, el Concepto de lo social y otros ensayos, El problema político, Situación social y libertad, Estado y Constitución, etc. *Address:* c/o General ORÁA, 16-Madrid-6, Spain.

FERNÁNDEZ-MURO, José Antonio; Argentine painter; b. 1 March 1920. Dir. Nat. School of Fine Arts, Buenos Aires 1957-58; travelled and studied in Europe and America on UNESCO Fellowship of Museology 1957-58; lives in New York 1962-; one-man exhbns. in Buenos Aires, Madrid, Washington, New York, Rome and Detroit; represented in numerous Group Shows including 50 ans de Peinture Abstraite, Paris and The Emergent Decade, Guggenheim Museum 1965; prizes include Gold Medal, Brussels World Fair 1958, Guggenheim Int. and Di Tella Int. awards. *Major works:* Superimposed circles 1958, In Reds, Di Tella Foundation, Buenos Aires 1959, Horizonte terroso, Museum of Modern Art, Caracas 1961, Circulo azogado, Museum of Modern Art, New York 1962, Lacerated Tablet, Rockefeller, New York 1963, Elemental Forms, M.I.T. 1964, Silver Field, Guggenheim Museum 1965, Summit, Bonino Gallery, New York.

FERNÁNDEZ RETAMAR, Roberto, DR. EN FIL.; Cuban writer; b. 9 June 1930, Havana; s. of José M. Fernández Roig and Obdulia Retamar; m. Adelaida de Juan 1952; two d.; ed. Univ. de la Habana, Univ. de Paris à la Sorbonne and Univ. of London. Prof. Univ. de la Habana 1955-; Visiting Prof. Yale Univ. 1957-58; Dir. Nueva Revista Cubana 1959-60; Cultural Counsellor of Cuba in France 1960; Sec. Union of Writers and Artists of Cuba 1961-65; Dir. of Review Casa de los Américas 1965-; Visiting lecturer Columbia Univ. 1957, Univ. of Prague 1965; Nat. Prize for Poetry, Cuba 1952. *Publications:* Poetry: Elegía como un Himno 1950, Patrias 1952, Alabanzas, Conversaciones 1955, Vuelta de la Antigua Esperanza 1959, Con las Mismas Manos 1962, Poesía Reunida 1948-1965 1966, Buena Suerte Viviendo 1967, Que veremos arder 1970, A quien pueda interesar 1970, Cuaderno paralelo 1973; studies: La poesía Contemporánea en Cuba 1954, Idea de la Estilística 1958, Papelería 1962, Ensayo de otro mundo 1967, Introducción a Cuba: la historia 1968, Caliban 1971, Lectura de Martí 1972, El son de Vuelo popular 1972. *Leisure interests:* reading, swimming. *Address:* Calle H 508, Vedado, Havana, Cuba. *Telephone:* 32-3587.

FERNÁNDEZ SORDO, Alejandro, LL.B.; Spanish lawyer; b. 4 Sept. 1921, Oviedo; m. Maria de la Concepción capal Vega; two s. three d. Pres. Nat. Press, Radio, TV and Publicity Syndicate 1964-65; Nat. del State Press and Radio Org. 1965-69; Dir.-Gen. of Press 1969-73; Sec.-Gen. Syndical Org. 1973; Minister of Syndical Relations 1974-75; Grand Cross of Cisneros, of Political Merit, of Mil. Merit, of Aeronautical Merit, of Civil Merit, and other decorations. *Leisure interests:* camping, mountaineering. *Address:* Paseo del Prado, 18-20, Madrid, Spain. *Telephone:* 227 83 18; 230 93 72.

FERNANDO, Most Rev. Nicholas Marcus; Ceylonese ecclesiastic; b. 6 Dec. 1932. Ordained priest 1959; Rector, St. Aloysius Minor Seminary 1965-73; Archbishop of Colombo May 1977-; Chair. Episcopal Comm. for Seminaries, Sri Lanka. *Address:* Archbishop's House, Colombo 8, Sri Lanka. *Telephone:* 95471.

FERNANDO, Thusew Samuel, C.B.E., Q.C., LL.B.; Ceylonese judge; b. 5 Aug. 1906, Ambalangoda; s. of late T. O. Fernando; m. Malini Wickramasuriya 1943; one s.; ed. Royal Coll., Colombo, Univ. Coll., Colombo, Univ. Coll., London, and Lincoln's Inn, London. Crown Counsel 1936-52; Solicitor-Gen. Ceylon 1952-54; Attorney-Gen. 1954-56; Justice of Supreme Court of Ceylon 1956-68; mem. Judicial Service Comm. 1962-68; Pres. Int. Comm. of Jurists, Geneva 1966-76; mem. Int. Cttee. of Inst. on Man and Science, New York; Pres. Asian-African Legal Consultative Cttee. 1971; Pres. Court of Appeal 1971-73; mem. Constitutional Court 1972; High Commr. in Australia and N.Z. 1974-77. *Leisure interests:* social services, human rights. *Address:* 3 Cosmas Avenue, Barnes Place, Colombo 7, Sri Lanka.

FERNIG, Leo; British educationist; b. 1915; ed. Univ. Coll. of the Province of Natal. Teacher, Natal Dept. 1937-40; served in Army Educ. Corps. 1940-46; Editor, Oxford Univ. Press 1946-48; Programme Specialist, Educational Clearing House, UNESCO 1948-52, Chief of Div. 1952-61; Asst. Dir. Int. Co-operation for the Study and Advancement of Educ., Dept. of Educ., UNESCO 1961-65, Dir. of Operational Services, Educational Sector 1966, Acting Dir., Dept. of School and Higher Educ. Aug. 1967, Dir. Dept. for Advancement of Educ. Oct. 1967-70, Dir. Int. Bureau of Educ. (IBE) 1970-77. *Publications:* articles in journals. *Address:* International Bureau of Education, Palais Wilson, 1211 Geneva 14, Switzerland.

FERNIOT, Jean; French journalist; b. 10 Oct. 1918, Paris; s. of Paul and Jeanne (née Rabu) Ferniot; m. 1st Jeanne Martinod 1942 (divorced), 2nd Christiane Servan-Schreiber 1959; three s. two d.; ed. Lycée Louis-le-Grand. Head, Political Dept., France-Tireur 1945-47; Political Columnist, L'Express 1957-58; Chief Political Correspondent France-Soir 1959-63; Ed. L'Express 1963-66; on staff Radio Luxembourg 1967- and Political Commentator France-Soir 1967-70; Prix Interallié 1961; Croix de Guerre. *Publications:* Les ides de mai 1958, L'ombre porté 1961, Pour le pire 1962, Derrière la fenêtre 1964, De Gaulle et le 13 mai 1965, Mort d'une révolution 1968, Paris dans mon assiette 1969, Complainte contre X 1973, De de Gaulle à Pompidou 1973, Ç■ suffit! 1974, Pierrot et Aline 1974, La petite légume 1974, Les vaches maigres (with Michel Albert) 1975, Les honnêtes gens 1976. *Address:* 62 rue Singer, Paris 16e, France. *Telephone:* 288-08-18.

FERRARI, Alberto, LL.D., M.A.; Italian banker; b. 16 Dec. 1914, Parma; ed. Univ. di Pisa, Yale Univ., and Univ. Bocconi, Milan; with Banca Commerciale Italiana 1938-51, with Presidency of Cabinet as Financial Expert 1947, Italian Del. to European Co-operation Cttee., Paris 1947, Italian Perm. Rep. to European Payments Cttee., Paris 1948-50; Gen. Sec. Bank for Int. Settlements, Basle 1951-61; Gen. Man. Consorzio di Credito per le Opere Pubbliche and Istituto di Credito per le Imprese di Pubblica Utilità, Rome 1961-66; Gen. Man. Banca Nazionale del Lavoro, Rome 1966-; Man. Dir.; Vice-Chair. Associazione Bancaria Italiana; Chair. Capitalfin Int.; mem. Bd. of Assen. of Italian Stock Companies, Bd. of Dirs. of Efibanca and INSUD, Comm. Permanente du Bareme de la Ligue des Sociétés; Kt. Gran Croce of the Italian Repub., Commdr. Belgian Order of the Crown, Officier Légion d'honneur. *Publications:* La Gestione del Credito 1947, Politica Monetaria 1959, Politica monetaria en su perspectiva historica 1961. *Address:* Banca Nazionale del Lavoro, Via Vittorio Veneto 119, Rome, Italy. *Telephone:* 4661.

FERRARI, Enzo; Italian racing car executive; b. 20 Feb. 1898, Modena; s. of Alfredo and Adalgisa (née Bisbini) Ferrari; m. Laura Gorello 1923 (died 1978); one s. (deceased); ed. Technical Professional Inst., Modena; entered motor racing 1920, driver with Alfa Romeo 1920-31; founder Ferrari Ltd. 1929-, Pres. 1929-77, Adviser 1977-, began building own cars 1940-; cars have won numerous Grand Prix and Championship Races. *Publication:* Le mie gioie terribili (autobiog.). *Address:* Ferrari Works, Maranello, Modena, Italy.

FERRAZZI, Ferruccio; Italian painter; b. 15 March 1891, Rome; m. Orizia Randone 1922; three s.; Titular Prof. of Decoration, Inst. of Fine Arts, Rome 1929-; Instructor, American Acad., Rome 1935-36; Dir. Scuola Vaticana del Mosaico 1967; mem. Acad. d'Italie 1932, Accad. del Disegno Firenze 1935-, Accad. Nazionale S. Luca 1925, Accad. Pontificia Virtuosi al Pantheon 1950; First Int. Prize Carnegie Inst. 1926. *Works include:* Focolare (Rome Modern Art Gallery) 1910, Genitrice (Rome) 1912, Presagio (Bologna Municipal Gallery) 1914, Vita gaia (Galleria Capitolina, Rome) 1921, Festa notturna, Adolescente 1922, Horitia (Florence Modern Art Gallery) 1923, Caratteri della famiglia (New York) 1923, Viaggio tragico (Pittsburgh), Idolo (Coll. Wedekind) 1925, Tempesta (Jeu de Paume, Paris) 1925, La Monta 1929, Il toro romano (Rome Modern Art Gallery) 1930, Seven tapestries (Palace of Corpns., Rome) 1932, Sabaudia (mosaic) 1935, Clemenza di Traiano (Palace of Justice, Milan) 1938, Fabiola e Ninetta che parlano (Art Gallery, Bucharest) 1933; frescoes for churches: S. Eugenio, Rome, S. Rita, Cascia 1951, Univ. of Padua, etc.; encaustic paintings for S. Benedetto Church, Rome 1949; mosaic Dell' Apocalisse 1927-54, Acqui; frescoes: Risurrezione, Amatrice 1953-55; l'Ultima Cena di Cristo, Assisi 1956, Le Opere e i Giorni, Mausoleo Acqui 1954-60; four sculptures Nella Villa di S. Liberata 1959-65; mosaic, Propaganda Fide Coll., Rome 1965-66; mosaic, apse of the Church of S. Antonio, Taranto 1970; seven paintings on Illuminazione della Memoria 1972. *Leisure interests:* poetry, sculpture. *Address:* Strada del Pianone 15, "Giardino delle Sculture", Santa Liberata, Grosseto 58010 (Studio); Piazza delle Muse, Via G. G. Porro 27, Rome 00197, Italy. *Telephone:* Santa Liberata 814327; Rome 801270.

FERREIRA, Herculano de Amorim, C.ENG., D.SC.; Portuguese physicist; b. 22 Oct. 1895, S. Miguel, Azores; s. of Dr. J. B. Carreiro Ferreira and Maria I. de M. Amorim; m. Jorgina do C. Monjardino 1934; two s. two d.; ed. Univs. of Lisbon and London; served in First World War 1917-18; Lecturer, Univ. of Lisbon 1920, Prof. 1930-65; Visiting Prof., Univ. of London 1933-34; Physicist, Lisbon Inst. for Cancer 1934-37; Under-Sec. of State for Nat. Educ. 1944-46; Dir.-Gen. of Meteorological and Geophysical Services 1946-65; Chair. Nat. Cttee. for Int. Radio-Science Union 1948-65; mem. Exec. Cttee. WMO 1951-59, Vice-Pres. 1955-59; Pres. Academia das Ciencias de Lisboa 1963-76, Vice-Pres. 1976-; Chair. Nat. Cttee. for Int. Hydrological Decade 1967-, Int. Geog. Union 1968-; Foreign mem. Royal Spanish Acad., Brazilian Acad. of Letters, Nat. Acad. of Sciences (Argentina); Hon. mem. Acad. du Mérite Scientifique, Paris; Hon. C.B.E. (U.K.); Order for Scientific Merit (Portugal and Spain). *Publications:* The Double Refraction of Quartz along the Optic Axis 1930, The Thermal Ionization of Sodium by Tungsten 1934, The Climate of Portugal, 17 vols. 1942-66, El Mapa Magnético de la Peninsula Ibérica 1951-61, Carte Seismotectonique du Portugal 1960, Hydrology as one of the Earth Sciences 1962, Science, Technology and Humanities 1963, Dynamic Climatology of Southern Africa 1965, etc. *Leisure interests:* music, fencing. *Address:* Rua Academia das Ciencias 19, Lisbon 2; Casa da Grota, Estoril, Portugal (Home). *Telephone:* 33866 (Office); 260180 (Home).

FERRIER, Johan Henri Eliza; Surinam politician; b. 12 May 1910, Paramaribo. Mem. Surinam Parl. 1946-48; Dir. Dept. of Educ., Paramaribo 1951-55; Prime Minister, Minister of Gen. Affairs, of Home Affairs 1955-58; Counsellor, Ministry of Educ., Arts and Science, Netherlands 1959-65; Man. Dir. Billiton Mining Co., Surinam 1966-67; Gov. of Surinam 1968-75; Pres. Repub. of Surinam 1975-79; Dr. of Arts and Philosophy, Netherlands 1950. *Address:* c/o Office of the President, Paramaribo, Surinam.

FERRY, John Douglas, A.B., PH.D.; American professor of chemistry; b. 4 May 1912, Dawson, Canada (of U.S. parents); s. of Douglass Hewitt Ferry and Eudora Beaufort Bundy; m. Barbara Norton Mott 1944; one s. one d.; ed. Stanford Univ. and Univ. of London. Instructor, Harvard Univ. 1936-38, Soc. of Fellows, Harvard 1938-41, Research Assoc. 1942-45; Assoc. Chemist, Woods Hole Oceanographic Inst. 1941-45; Asst. Prof., Univ. of Wisconsin 1946, Assoc. Prof. 1946-47, Prof. 1947-, Chair. Dept. of Chemistry 1959-67; Pres. Soc. of Rheology 1961-63; Chair. Int. Cttee. on Rheology 1963-68; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences, Hon. mem. Groupe Français de Rhéologie; Special Lecturer, Kyoto Univ., Japan 1968, Université de Grenoble (Ecole d'Eté) 1973; Farrington Daniels Research Prof. 1973-; Eli Lilly Award, A.C.S. 1946; Bingham Medal, Soc. of Rheology 1953; Kendall Award, A.C.S. 1960; High Polymer Physics Prize, American Physical Soc. 1966; Colwyn Medal, Inst. of the Rubber Industry (London) 1971; Witco Award, A.C.S. 1974, Technical Award, Int. Inst. of Synthetic Rubber Producers 1977. *Publication:* Viscoelastic Properties of Polymers 1961, 1970. *Leisure interest:* travel. *Address:* Department of Chemistry, University of Wisconsin, Madison, Wis. 53706; 137 N. Prospect Avenue, Madison, Wis. 53705, U.S.A. (Home). *Telephone:* 608-262-1485 (Office); 608-233-4936 (Home).

FERY, John Bruce, M.B.A.; American business executive; b. 16 Feb. 1930, Bellingham, Wash.; s. of Carl S. and Margaret Fery; m. Delores Carlo 1953; three s.; ed. Univ. of Washington and Standard Univ. Graduate School of Business. Asst. to Pres., Wester Kraft Corpn. 1955-56, Production Man. 1956-57; Asst. to Pres., Boise Cascade Corpn. 1957-58, Gen. Man. Paper Div. 1958-60, Vice-Pres. 1960-67, Exec. Vice-Pres. and Dir. 1967-72, Pres. 1972-78, Chief Exec. Officer 1972-, Chair 1978-. *Address:* Boise Cascade Corporation, One Jefferson Square, Boise, Ida. 83728, U.S.A. *Telephone:* 208-384-8560.

FESHBACH, Herman, PH.D.; American professor of physics; b. 2 Feb. 1917, New York, N.Y.; s. of David and Ida Feshbach; m. Sylvia Harris 1940; two s. one d.; ed. City Coll., New York, N.Y. and Mass. Inst. of Technology. Tutor in Physics, City Coll., New York 1937-38; Asst. Prof. MIT 1945-47, Assoc. Prof. 1947-54, Prof. of Physics 1954-, Ida Green Prof. 1976-, Dir. Center for Theoretical Physics 1967-73, Head, Dept. of Physics 1973-; Guggenheim Fellow 1954-55, Ford Foundation Fellow 1962-63; Vice-Pres. American Acad. of Arts and Science 1973-76; mem. Nat. Acad. of Sciences; Navy Ordnance Award 1943; Bonner Prize, American Physical Soc. 1973. *Publications:* Methods of Theoretical Physics (with Philip M. Morse) two vols. 1953, Theoretical Nuclear Physics (with Amos de Shalit) 1974, Reaction Dynamics (with F. S. Levin) 1973. *Address:* Center for Theoretical Physics, 6-307, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Mass. (Office); 5 Sedwick Road, Cambridge, Mass., U.S.A. (Home). *Telephone:* 253-4801 (Office); 354-2721 (Home).

FESSARD, Alfred Eugene, D.SC.; French neurophysiologist; b. 28 April 1900, Paris; s. of Louis Fessard and Marie Erard; m. Denise Albe 1942; one s. one d.; ed. Paris Univ.; research worker, Centre Nat. de la Recherche Scientifique 1931-47; Dir. Inst. Marey 1947-71; Prof. of Gen. Neurophysiology, Coll. de France 1949-71, Hon. Prof. 1971-; mem. Acad. des Sciences, Acad. de Médecine and numerous foreign acads. and socs.; Prix Lallemand 1935, Prix Roy-Vaucouloux 1954; Officier Légion d'honneur, Chevalier Ordre de Léopold II, Commdr. Palmes académiques, Commdr. Ordre national du Mérite. *Publications:* A large number of scientific works on basic neurophysiology, electro-encephalography, electric fish and others. *Address:* 11 Place Marcelin Berthelot, 75005 Paris (Office); 29 rue des Peupliers, 92100 Boulogne, France (Home).

FESSLER, Ernst; German banker (retd.); b. 23 Aug. 1908; s. of Hans and Amalie (née Spancken) Fessler; m. Auguste Massenberg 1939; three s.; ed. Univs. of Freiburg and Cologne. Ministry of Justice 1934; Supervisory Office for Banking 1935-45; mem. Bd. of Man., Landeszentralbank of Lower Saxony 1948-51, Vice-Pres. 1951-53; Vice-Pres. Landeszentralbank of North-Rhine Westphalia 1953-56, Pres. 1956-76; mem. Cen. Bank Council Deutsche Bundesbank 1956-76; mem. Bd. of Trustees, Rheinisch-Westfälisches Inst. für Wirtschaftsforschung 1956-72, Deputy Chair. 1973-; Deputy Chair, Supervisory Bd., Stahlwerke Bochum 1966-; mem. Supervisory Bd., Thyssen AG. *Address:* Meliesallee 9, 4000 Düsseldorf 13, Federal Republic of Germany. *Telephone:* 0211-716691.

FESTINGER, Leon, M.A., PH.D.; American professor of psychology; b. 8 May 1919, New York; s. of Alex and Sarah Solomon Festinger; M. Trudy Bradley 1968; two s. two d.; ed. City Coll. of New York and State Univ. of Iowa. Research Assoc. in Psychology, Univ. of Iowa 1941-43; Sr. Statistician, Cttee. on Selection and Training of Aircraft Pilots, Univ. of Rochester 1943-45; Asst. Prof. of Social Psychology, M.I.T. 1945-48; Assoc. Prof. and Program Dir. Research Center for Group Dynamics, Univ. of Michigan 1948-51; Prof. of Psychology, Univ. of Minnesota 1951-55; Prof. of Psychology, Stanford Univ. 1955-68; Else and Hans Staudinger Prof., Graduate Faculty Dept. of Psychology, New School for Social Research 1968–; mem. Nat. Acad. of Sciences; Distinguished Scientific Contribution Award, American Psychological Assn. *Address:* New School for Social Research, 66 West 12th Street, New York, N.Y. 10011; 37 West 12th Street, New York, N.Y. 10011, U.S.A. (Home). *Telephone:* 741-5787 (Office); 675-8325 (Home).

FETSCHER, Iring, DR. PHIL.; German political scientist; b. 4 March 1922, Marbach; s. of Prof. Rainer Fetscher; m. Elisabeth Götte 1957; two s. two d.; ed. König-George-Gymnasium, Dresden, Eberhard-Karls-Universität, Tübingen, Université de Paris, and Johann Wolfgang Goethe-Universität, Frankfurt. Ed. Marxismus-studien 1956-; radio commentator on political, philosophical and sociological questions; Prof. of Political Science, Johann Wolfgang Goethe-Universität, Frankfurt 1963-; Theodor-Heuss Prof. New School for Social Research, New York 1968-69; Guest Prof. Tel-Aviv Univ. 1972; Fellow, Netherlands Inst. for Advanced Study in the Humanities and Social Sciences 1972-73; Inst. for Advanced Studies, Australian Nat. Univ., Canberra; Extraordinary Prof. for Social and Political Philosophy, Catholic Univ. of Nijmegen 1974-75. *Publications include:* Von Marx zur Sowjetideologie 1956 (18th edn. 1973), Uber dialektischen und historischen Materialismus (Commentary of Stalin) 1956, 1962, Rousseaus politische Philosophie 1960, 1968, 1975, Der Marxismus, seine Geschichte in Dokumenten Vol. I 1962, Vol. II 1964, Vol. III 1965, Marx-Engels Studienausgabe 4 vols. 1966, Introduction to Hobbes' Leviathan 1966, Karl Marx und der Marxismus 1967, Der Rechtsradikalismus 1967, Der Sozialismus 1968, Der Kommunismus 1969, Hegel: Grosse und Grenzen 1971, Modelle der Friedenssicherung 1972, Wer hat Dornröschen wachgeküsst?—das Märchenverwirrbuch 1972, 1974, Marxistische Porträts Vol. I 1975, Vol. II 1977, Herrschaft und Emanzipation 1976, Überlebensbedingungen der Menschheit zur Dialektik des Fortschritts 1977, Terrorismus und Reaktion 1977. *Leisure interests:* collects autographed letters and manuscripts. *Address:* J. W. Goethe Universität, Mertonstrasse 17, 6000 Frankfurt-am-Main; Ganghoferstrasse 20, 6000 Frankfurt-am-Main, Federal Republic of Germany (Home). *Telephone:* 52-15-42.

FEUILLÈRE, Edwige; French actress; b. 29 October 1910, Vesoul; m. Pierre Feuillère (divorced); ed. Conservatoire National de Paris; appeared for two years at the Comédie Française, at Théâtre National Populaire 1965; has played leading parts in La dame aux camélias, Sodome et Gomorrhe, L'aigle à deux têtes, Partage de midi, La parisienne, Phèdre, Constance, Rodogune, La liberté est un dimanche, Pour Lucrèce, Lucy Crown, Eve et Line, La folle de Chaillot, A Delicate Balance, Les bonshommes, Sweet Bird of Youth, La visite de la vieille dame; *films include:* Sans lendemain, De Mayerling à Sarajevo, J'étais une aventurière, L'idiot, Olivia, Cap de l'espérance, adorables cr'aaeatures, Le blé en herbe, Les fruits de l'été, En cas de malheur, La vie à deux, Les amours célèbres, Le crime ne paie pas, Si la vie nous sépare, La chair de l'orchidée; Chevalier de la Légion d'honneur, Commdr. des Arts et Lettres. *Publication:* Les feux de la mémoire. *Leisure interest:* reading. *Address:* 19 rue Eugène Manuel, Paris 16e, France.

FEYIDE, Chief Meshach Otokiti, A.C.S.M., D.I.C., C.ENG., M.I.M.M., F.INST.PET.; Nigerian chartered engineer; b. 31 March 1926, Ipele, Owo Div., W. State; s. of Chief Samuel Otokiti and Juliana Elebe Otokiti (née Adeola); m. Christiana Oluremi 1954; one s. two d.; ed. Govt. Coll., Ibadan, Camborne School of Mines, U.K., Imperial Coll. of Science and Technology, London. Mines Ranger, Sub.-Insp. of Mines, Mines Dept. 1946-49; Insp. of Mines 1954-59; Petroleum Engineer, Ministry of Mines and Power 1960; attached to b.P. Sunbury Research Centre and Eakring Oil Fields, U.K. 1960-61; Ministry of Petroleum and Mines, Trinidad and Tobago 1961; Senior Petroleum Engineer, Ministry of Mines and Power 1962-64, Chief Petroleum Engineer, Head of Petroleum Division 1964-70, Dir. Petroleum Resources, Head of Dept. of Petroleum Resources 1970-74; Sec.-Gen. OPEC 1975-76. *Leisure interests:* music, reading. *Address:* P.O. Box 1790, Lagos, Nigeria.

FEYNMAN, Richard Phillips, PH.D.; American physicist; b. 11 May 1918; ed. Massachussetts Inst. of Technology and Princeton Univ.; mem. staff atomic bomb project, Princeton 1942-43, Los Alamos 1943-45; Assoc. Prof. of Theoretical Physics, cornell Univ. 1945-50; Prof. of Theoretical Physics, California, Inst. of Technology 1950-; mem. American Physical Soc., American Assen. for Advancement of Science; Foreign mem. Royal Soc. (U.K.); Einstein Award 1954; Nobel Prize for Physics 1965. *Address:* Physics Department, California Institute of Technology, Pasadena, California 91109, U.S.A.

FEYZIOĞLU, Turhan, LL.D.; Turkish university professor and politician; b. 19 Jan. 1922, Kayseri; s. of Sait Azmi Feyzioğlu and Neyyire Feyzioğlu; m. Leyla Firdevs 1949; one s.; ed. Galatasaray Lycée, Istanbul Univ., and Ecole Nationale d'Administration, Paris. Asst. Prof. Ankara Political Science School 1945-47, Assoc. Prof. 1947-54; Research, Nuffield Coll., Oxford 1954; Co-editor Forum 1954-58; Prof. Ankara Univ. 1955; Dean, Political Science School, Ankara 1956; M.P. 1957, 1961, 1965-; mem. Nat. Exec. Cttee. Republican People's Party 1957-61, Vice-Pres. 1965, 1966; Pres. Middle East Technical Univ. 1960; mem. Constituent Assembly 1960; Minister of Educ. 1960; Minister of State 1961; Deputy Prime Minister 1962-63; mem. Turkish High Planning Council 1961-63; Turkish Rep. Consultative Assembly Council of Europe 1964-66, 1972; Leader Republican Reliance Party 1967-; Deputy Prime Minister 1975-77, 1978. *Publications;* Administrative Law 1947, Judicial Review of Unconstitutional Laws 1951, Les parties politiques en Turquie 1953, The Reforms of the French Higher Civil Service 1955, Democracy and Dictatorship 1957, Communist Threat 1969, In the Service of the Nation 1975. *Leisure interest:* gardening. *Address:* Farabi Sokak 9/3, Ankara, Turkey. *Telephone:* 270619.

FFORDE, Sir Arthur Frederic Brownlow, Kt., G.B.E., M.A., LL.D.; British solicitor and educationist; b. 23 Aug. 1900, Watford; s. of Arthur Brownlow fforde and Mary Alice Storer Branson; m. Mary Alison MacLehose 1926; two s. one d.; ed. Rugby School, and Trinity Coll., Oxford; admitted as solicitor 1925; partner Linklaters and Paines, London 1928-48; mem. Council of Law Society 1937-48; Deputy Dir.-Gen. Ministry of Supply 1940-41; Under-Sec. Ministry of Supply 1943; Under-Sec. Treasury 1944-45; Headmaster Rugby School 1948-57; Chair Bd. of Governors, BBC 1957-64, Central Bd. of Finance, Church of England 1960-65; Dir. Equity and Law Life Assurance, Nat. Westminster Bank 1957-70. *Address:* Wall's End, Wonersh, Guildford, Surrey, England.

FFORDE, John Standish, M.A.; British banker; b. 16 Nov. 1921, Broadstone, Dorset; s. of late F. C. Fforde; m. Marya Retinger 1951; three s. one d.; ed. Rossall School and Christ Church, Oxford. Asst. Prime Minister's Statistical Branch 1951-53; Fellow in Econs., Nuffield Coll., Oxford 1953-56; Adviser Bank of England 1957-59, Deputy Chief Cen. Banking Information Dept. 1959-64, Adviser to Govs. 1964-66, Chief Cashier 1966-70, Dir. 1970-. *Publications:* The Federal Reserve System 1945-49 1953, An International Trade in Managerial Skills 1957. *Leisure interests:* travel, walking. *Address:* 106 Hawtrey Road, London, N.W.3, England.

FICHTNER, Kurt, DR.RER.OC.; German politician; b. 16 Aug. 1916, Breslau. Deputy Chair. Econ. Council of G.D.R. 1964-65; Minister of Iron Ore Mining and Metallurgy 1965-67; Deputy Chair. Council of Ministers 1967-74; Deputy Chair. State Planning Comm. 1974–; cand. mem. Cen. Cttee. Sozialistische Einheitspartei Deutschlands (SED) 1971-; Vaterländischer Verdienstorden in Bronze and Silver and other decorations. *Address:* Ministerrat, Berlin, German Democratic Republic.

FIEDLER, Leslie A., PH.D.; American professor of English and literary critic; b. 8 March 1917, Newark, N.J.; s. of Jacob Fiedler and Lillian Rosenstrauch; m. 1st Margaret Shipley 1939 (divorced 1972), three s. three d.; m. 2nd Sally Andersen 1973, two step-s.; ed. Univ. of Wisconsin and New York Univ. (Heights); Mem. of Staff, Montana State Univ. 1941-63, Chair. Dept. of English 1954-56; Prof. of English, State Univ. of New York at Buffalo 1964, Chair. Dept. of English 1974-77; Assoc. Fellow, Calhoun Coll., Yale Univ.; teaches at vacation courses at univs. in many parts of Europe and U.S.A.; Rockefeller Fellow 1946-47, Fulbright Fellow 1951-53, 1961-62; Kenyon Review Fellowship in Criticism and Christian Gauss Fellowship, Princeton Univ. 1956; Guggenheim Fellowship 1970-71; Furioso Poetry Prize 1957, Award of Nat. Inst. of Arts and Letters 1957. *Publications include:* An End to Innocence: Essays on Culture and Politics 1955, The Art of the Essay 1958, Love and Death in the American Novel 1960, 1966, No! In Thunder: Essays on Myth and Literature 1960, Pull Down Vanity and Other Stories 1962, The Second Stone: A Love Story 1963, Waiting for the End 1964, Back to China 1965, The Last Jew in America 1966, The Return of the Vanishing American 1968, Nude Croquet and Other Stories 1969, Being Busted 1970, Collected Essays 1971, The Stranger in Shakespeare 1972; The Messengers Will Come No More 1974, In Dreams Awake 1975, Freaks 1977, Reader 1977. *Leisure interests:* swimming and/or meditation. *Address:* Department of English—Annex B, State University of New York at Buffalo, Buffalo, N.Y. 14214; 154 Morris Avenue, Buffalo, N.Y. 14214, U.S.A. (Home). *Telephone:* 716-636-2573 (Office); 716-838-4105 (Home).

FIELD, Frank, M.A.; British lecturer and international official; b. 28 Jan. 1929, Roehampton; s. of Arthur William Field and Elsie (née Clark); m. Marie Bessie Jones 1952; one d.; ed. London Univ. and Sussex Univ.; Regional Officer of UNA of U.K. 1955-66, leading work camps on refugee projects in Austria 1956, Germany 1957, England 1958; Nat. Organizer, UNA Inquiry into Disarmament 1961; Lecturer in Int. Relations, Chorley Coll. of Educ., Univ. of Lancaster 1968-73, mem. Bd. of Educ. Studies of Univ. of Lancaster 1968-73; Dir. UNA of U.K. 1973-76; Sec.-Gen. World Fed. of UN Asscns. (WFUNA) 1976-. *Publications:* numerous articles on UN, UNA and int. affairs. *Leisure interests:* music, ice skating. *Address:* World Federation of United Nations Associations, 3 rue de Varembé, 1211 Geneva 20, Switzerland. *Telephone:* Geneva 34-49-60.

FIELD, Henry, M.A., D.SC.; American anthropologist; b. 15 Dec. 1902, Chicago, Ill.; m. Julia Rand Allen 1953; one d. (one d. by previous marriage); ed. Eton Coll. and New Coll., Oxford; Asst. Curator of Physical Anthropology, Field Museum of Natural History (Chicago) 1926-34, Curator 1934-41; engaged in research work for Presidents Roosevelt and Truman in Washington 1941-45; Research on Anthropology of S.W. Asia 1946-47; Univ. of Calif. African Expedition 1947-48; Research Fellow, Physical Anthropology, Harvard Univ. 1950-69, Hon. Assoc. 1969-; Adjunct Prof. of Anthropology, Univ. of Miami 1966-; Peabody Museum-Harvard Expedition to Near East 1950, West Pakistan 1955, Siberia and Mongolia 1974. *Publications:* Arabs of Central Iraq, their History, Ethnology and Physical Characters 1935, Contributions to the Anthropology of Iran 1939, The Anthropology of Iran, Part I: No. 1 1940, Nos. 2-3 1949, Part II, No. 1 1951, Nos. 2, 3 1952, Contributions to the Anthropology of the Faiyum, Sinai, Sudan and Kenya 1952, The Track of Man 1953, Contributions to the Anthropology of the Caucasus 1953, Bibliography of S.W. Asia, I-VII 1953-64, Ancient and Modern Man in S.W. Asia (vol. I) 1956, (vol. II) 1961, Anthropological Reconnaissance in W. Pakistan 1959, North Arabian Desert Archaeological Survey 1925-50, 1960, 'M' Project for F.D.R.: Studies on Migration and Settlement 1962, Ed. Peabody Museum Russian Translation Series Vols. I-III, V 1959-70, Contributions to the Physical Anthropology of the Peoples of India 1970, Contributions to the Anthropology of Saudi Arabia 1973, Arabian Desert Tales 1977, Mongolia Diary 1978, Mongolia Today 1978. *Address:* Peabody Museum, Cambridge 38, Mass.; 3551 Main Highway, Coconut Grove, Miami 33133, Fla., U.S.A. (Home). *Telephone:* Miami 1-305-443-8306.

FIGGURES, Sir Frank, K.C.B., C.M.G.; British retd. civil servant; b. 5 March 1910; ed. Oxford and Yale Univs.; called to Bar 1936; Mil. Service (R.A.) 1940-46; Treasury 1946-71; Dir. Trade and Finance, OEEC 1948-51; Under-Sec. Treasury 1955-60; Sec.-Gen. EFTA 1960-65; Third Sec. Treasury 1965-68; Second Perm. Sec. (Finance Group) 1968-71; Dir.-Gen. Nat. Econ. Devt. Office 1971-73; Chair. Pay Bd. 1973-74; BBC Consultative Group on Industrial and Business Affairs 1976-, Chair. BBC Gen. Advisory Council 1978-; Dir. Julius Baer Int. 1975-. *Address:* 9 Main Street, Barrowden, Oakham, Rutland LE15 8EQ, England. *Telephone:* Morcott 442.

FIGINI, Luigi; Italian architect; b. 27 Jan. 1903, Milan; s. of Alessandro F. and Pia Jardini; m. Gege Bottinelli 1934; ed. Politecnico di Milano; active collaborator with Gruppo 7 of Milan, later with Architetti di Quadrante; collaborates mainly with Gino Pollini; mem. Accad. di S. Luca, Accad. Tiberina, Movimento Italiano per l'Architettura Moderna; numerous prizes. *Publications:* L'elemento verde e l'abitazione 1950, numerous articles in architectural magazines. *Major works:* numerous offices, villas, artists' studios and factories including offices for De Angeli Frua, Milan 1931; Olivetti works 1934-57, nursery school 1939-41, and 'Fascia Servizi Sociali', Olivetti, Ivrea Church Madonna dei poveri, Milan 1952-54, Ina Casa quarter Via Harrar, Milan 1951, house and garden terrace, Hoepli 1955-57, Pozzi Ceramic Works, Sparanise 1960-63, drawings for Borgo Porto Conte 1951, house in Via Circo, Milan 1956, church SS. Giovanni e Paolo 1966. *Leisure interests:* horticulture, ornithology, zoophily. *Address:* Via Manin 3, Milan (Studio); Via Perrone di S. Martino 8, Milan, Italy (Home). *Telephone:* 650-162 (Studio); 690-326 (Home).

FIGUEIREDO, Elisio de; Angolan diplomatist; b. 13 June 1940; ed. studies in political science and int. affairs; mem. People's Movement for the Liberation of Angola (MPLA), active in independence campaign; worked at UN Secretariat, later spokesman of MPLA in various countries; MPLA rep. in U.S.A. 1974-76; Perm. Rep. to UN 1976-. *Address:* Permanent Mission of Angola to the United Nations, New York, N.Y., U.S.A.

FIGUEIREDO, Gen. João Baptista de; Brazilian army officer and politician; b. 15 Jan. 1918, Rio de Janeiro; s. of Euclydes and Valentina de Oliveira Figueiredo; m. Dulce Maria Guimarães de Castro 1942; two s.; ed. Mil. Acad., Advanced Training School for Officers, and Army Staff College; became instructor at these establishments; with Brazilian Mil. Mission, Paraguay 1955-57; mem. Armed Forces Gen. Staff; Head Fed. Intelligence and Counter-Intelligence Service; Commdr. Public Security Force of State of São Paulo 1966-67, Horse Guards Regiment 1967-69; promoted to Brig.-Gen. 1969; Head of the Mil. Household 1969-74, of Nat. Information Service; Maj.-Gen. 1974, Gen. 1978; Pres. of Brazil March 1979-; Aliança Renovadora Nacional. *Address:* Palácio do Planalto, Brasília, D.F., Brazil.

FIGUERES FERRER, José; Costa Rican politician; b. 25 Sept. 1906; m. 2nd Karen Olsen; six c.; ed. Univ. de Costa Rica, Univ. de México, M.I.T. Coffee planter and rope maker in Costa Rica until 1942; exiled to Mexico 1942-44; became Pres. of ruling Junta of the Repub. after 1948, resgnd. 1949; worked on econ. problems 1949-52; Pres. 1953-58, 1970-74; Visiting Prof., Harvard Univ. 1963-64; Pres. Partido de Liberación Nacional; Theodore Brent Prize. *Publications:* Cartas a un Ciudadano, La Pobreza de las Naciones 1973, and numerous articles. *Address:* Apartado 4820, San José, Costa Rica. *Telephone:* 25-16-68.

FILATOV, Antonin Nikolayevich; Soviet surgeon and haematologist; b. 17 Aug. 1902, Kamenka, Kaluga Region; ed. Moscow Univ.; Intern. Research Assoc. Inst. of Medicine 1925-36; Asst. Prof. 1936-39; Asst. Prof. Inst. of Postgraduate Medical Training, Leningrad 1939-42; Deputy Dir. and Head of Research Inst. of Blood Transfusion, Leningrad 1942-; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1953-66, mem. 1966-; mem. Int. Assen. of Surgeons, Int. Soc. of Haematologists; mem. Bd. U.S.S.R. and R.S.F.S.R. Socs. of Surgeons; Hon. mem. Pirogov Surgical Soc.; Order of Red Star, Badge of Honour, Red Banner of Labour, State Prize 1953, Merited Scientist R.S.F.S.R. *Publications:* About 200 works on surgical treatment of vascular derangements, transplantation and substitution of tissues and organs, application of biological haennostatic methods. *Address:* Institute of Blood Transfusion, R.S.F.S.R. Ministry of Public Health, 16 Vtoraya Sovietskaya ulitsa, Leningrad, U.S.S.R.

FILBINGER, Hans Karl, D. IUR.; German lawyer and politician; b. 15 Sept. 1913, Mannheim; m. Ingeborg Breuer 1950; one s. four d.; ed. Albert-Ludwigs-Univ., Freiburg im Breisgau, Ludwig-Maximilians-Univ., Munich, and Univ. de Paris à la Sorbonne; teacher, Univ. of Freiburg 1937-40; war service and P.O.W. 1940-46; lawyer, Freiburg 1946-60; mem. Landtag of Baden-Württemberg 1960; Minister of Interior, Baden-Württemberg 1960-66; Minister-Pres. of Baden-Württemberg 1966-78; Pres. Bundesrat (Upper House) 1973-74; mem. Comm. on Decartelization Questions 1947; Founder mem. German-French Soc., Freiburg, soc. for Supra-national Cooperation; mem. NATO Parl. Conf.; Chair. Baden-Württemberg Democrat (CDU) Fed.; Deutsches Grosskreuz and other awards. *Address:* Hohenheimer 84, 9 Stuttgart-1, Federal Republic of Germany.

FILER, John H.; American insurance executive; b. New Haven, Conn.; ed. De Pauw and Yale Univs.; joined Gumbart, Corbin, Tyler and Cooper (law firm), New Haven 1951; mem. Connecticut Senate 1957-58; Chair. Farmington Bd. of Educ. 1961-67; Asst. Counsel Aetna Life and Casualty Co. 1958, Gen. Counsel 1966, Admin. Asst. to Chair. and Pres. 1967, Exec. Vice-Pres. 1968, Vice-Chair. Jan. 1972, Chair. and Chief Exec. Officer July 1972-; Dir. U.S. Steel Corpn., Vice-Chair. Connecticut Business and Industry Assen., Dir. Insurance Assen. of Connecticut, Inst. of Life Insurance, Greater Hartford Chamber of Commerce, Aetna Life and Casualty Co. *Address:* 151 Farmington Avenue, Hartford, Conn. 06115, U.S.A.

FILIP, Jan, PH.DR., DR.SC.; Czechoslovak historian; b. 25 Dec. 1900, Chocnějovice; m. Alena Velkoborská 1940; ed. Charles Univ., Prague; Prof. of Pre-History and of Early History, Charles Univ.; corresp. mem. Czechoslovak Acad. of Sciences 1952, Academician 1955, Vice-Pres. 1957-61, mem. Presidium 1962, Dir. Archaeological Inst. 1963-, mem. Scientific Collegium on History; Chair. History Section Czechoslovak Acad. of Sciences 1955-57; Pres. Int. Union of Prehistoric and Protohistoric Sciences 1963-69; foreign mem. Royal Danish Acad. of Sciences and Art 1965, Royal Acad. of Sciences, Belgium 1969, Akad. der Wissenschaft, Göttingen 1966, Swedish Acad. 1972, British Acad. 1976; hon. mem. Archaeological Inst. of America 1976; Polish Order of the Gold Cross 1949, Laureate of the State Prize 1957, Order of Labour 1961, Medal of Swedish Acad. of Literature, Art and Antiquities 1968, Gottfried Herder Prize of Vienna Univ. 1970, Gold Plaque for Services to Science and Mankind, Czechoslovak Acad. of Sciences 1970, Emil-Vogt-Preis für europäische Urgeschichte (Zürich) 1978. *Publications:* Historic Beginnings of the Český ráj, an area in North-Eastern Bohemia, Pre-history of Czechoslovakia, The Beginnings of Slav Settlements in Czechoslovakia, The Celts in Central Europe, The Urnfields in Bohemia, Celtic Civilization and its Heritage, Encyclopaedia of Pre- and Early European History, Frühe Stufen der Kunst, Prehistoric Prague, Arts and Crafts in Prehistory. *Address:* Kaprová 12, Prague 1, Czechoslovakia.

FILLIOZAT, Jean, D. en MED., D. ès L.; French professor; b. 4 Nov. 1906, Paris; m. Anne Surugue 1930; three c.; ed. Univ. of Paris; Dept. of Manuscripts, Nat. Library, Paris 1936-41; Lecturer in Modern Indian Languages, Ecole Nat. des Langues Orientales 1937-39; temp. Lecturer, Ecole Pratique des Hautes Etudes 1937-39, and 1941; Dir. of Studies, Indian Philology 1941-; Prof. Coll. de France

1952-78; Dir. Institut française d'Indologie, Pondicherry 1955-77, Ecole française d'Extême-Orient, Paris 1956-77; mem. Acad. des Inscriptions et Belles Lettres 1966-; Vice-Pres. Société Asiatique de Paris; Commdr. Légion d'honneur, Commdr. des Palmes académiques. *Publications:* Etude de démonologie indienne, Le Kumaratantra de Ravana 1937, Catalogue du fonds sanskrit de la Bibliothèque Nationale 1941, Magie et médecine 1943, Fragments de textes koutchéens de médecine et de magie 1948, La doctrine classique de la médecine indienne, ses origines et ses parallèles grecs 1949, L'Inde classique, Manuel des études indiennes (in collaboration) 1947-53, Inde, nation et traditions 1961, Les philosophies de l'Inde 1970, Un texte tamoul de dévotion Vishnouite, le Tiruppavai 1972, Un texte de la religion kaumâra 1973, Laghuprabandhāh 1974. *Leisure interest:* horseback riding. *Address:* 35 rue François Rolland, 94130-Nogent-sur-Marne, France.

FINCH, Robert Hutchison, LL.B., J.D.; American lawyer and government official; b. 9 Oct. 1925, Tempe, Arizona; s. of Robert L. and Gladys Hutchison Finch; m. Carol Crothers 1946; one s. three d.; ed. Occidental Coll., California and Univ. of Southern California; served in U.S. Marine Corps 1943-45 and during Korean War; fmr. senior partner in Inglewood law firm; fmr. instructor and trustee Palos Verdes Coll. and Marymount Coll., Calif.; Admin. Asst. to Vice-Pres. Nixon 1958-60; Los Angeles District Attorney's Advisory Counsel 1965; Lieut.-Gov. State of Calif. (Republican) 1967-68; Sec. of Health, Educ. and Welfare 1969-70; Counsellor to the Pres. 1970-72; Partner, Fleming Anderson, McClarg & Finch, fmrly. mem. Bd. of Regents, Univ. of Calif., Bd. of Trustees Calif. State Colls. and Occidental Coll.; mem. Statewide Cttee. of YMCA Youth and Govt. 1967. *Publications:* The New Conservative Liberal Manifesto (editor) 1968. *Address:* 301 E Colorado Boulevard, Pasadena, Calif. 91101 (Office); 1106 Las Riendas, Pasadena, Calif. 91107, U.S.A. (Home).

FINCH, William G. H.; American radio engineer; b. 28 June 1895; ed. Woodward High School, Cincinnati, Marconi Inst., New York and Columbia Univ.; with Cleveland Illuminating Co. 1916-17, Nat. District Telegraph Co., New York 1917-19 and Royal Indemnity Co. 1919-21; Radio Eng. Ed. Int. News Service 1921-; established first radiotypewriter press circuit between New York and Chicago 1932, between New York and Havana 1933; Chief Radio Consulting Engineer and Technical Dir. Hearst Newspapers; Chief Eng. Sec. American Radio News Corpn. 1929-34; Asst. Chief Fed. Communications Comm. 1934-35; Founder and Pres. Finch Telecommunications Inc. 1935-41; Chief Engineer 74th Congress Investigation Cttee.; served U.S. Navy 1941-44 and 1949, now Special Asst. Electronics to Asst. Chief Bureau of Shipping for Electronics; inventor automatic highspeed radio printing system, radio relay and recorder, and high fidelity transmission system; holds 160 patents; mem. Int. Radio Consulting Cttee., Tech. Comm. on radio and cable communications to American Publishers Assn. 1924-; Fellow A.I.E.E., etc.; Legion of Merit, Wisdom Award 1971, etc. *Address:* 'Elfin', Newtown, Conn., U.S.A. (Home).

FINDLAY, Ian Herbert Fyfe; British insurance broker; b. 5 Feb. 1918, Aberystwyth, Wales; s. of Prof. Alexander and Alice Mary (de Rougemont) Findlay; m. Alison Mary Ashby 1950; two s. one d.; ed. Fettes Coll., Edinburgh; served as Capt., R.A. 1939-45; Dir. Price, Forbes & Co. Ltd. 1953, Chair. 1967-72; Deputy Chair. Sedgwick Forbes (Holdings) Ltd. 1972-74, Chair. 1974-77; Chair. Lloyds Insurance Brokers Assn. 1969-70, Cttee. of Lloyds 1971-74, 1976-, Deputy Chair. Lloyds 1977, Chair. 1978-79. *Leisure interest:* golf. *Address:* 24 Forest Ridge, Keston Park, Kent, England. *Telephone:* Farnborough (Kent) 52993.

FINGLAND, Sir Stanley, K.C.M.G.; British diplomatist; b. 19 Dec. 1919, Edinburgh; s. of Samuel Gunn Fingland; m. Nell Lister 1946; one s. one d.; ed. Royal High School, Edinburgh; war service, Major, Royal Signals 1939-47; Commonwealth Relations Office, later Foreign and Commonwealth Office (FCO) 1948-; service in India, Australia, Nigeria, Trinidad and Tobago, Rhodesia; High Commr. in Sierra Leone 1966-69; Asst. Under-Sec. of State, FCO 1969-72; Amb. to Cuba 1972-75; High Commr. in Kenya 1975-79. *Leisure interests:* fishing, golf. *Address:* c/o Foreign and Commonwealth Office (Nairobi), King Charles Street, London, S.W.1, England.

FINI, Leonor; Italian painter; b. 30 Aug. 1918, Buenos Aires, Argentina; d. of Erminio Fini and Malvina Braun; ed. Trieste; numerous one-man exhbns. in Paris, Rome, London, New York; retrospective exhbn. Knokke-le-Zoute, Belgium 1965; created numerous décors for La Scala, Milan, Paris Opera, Comédie française, Compagnie Madeleine Renaud, Jean-Louis Barrault, etc.; has participated in numerous group exhbns. including Venice Biennale and Salon de Mai, Paris; has illustrated numerous books; mem. Acad. Royale de Belgique 1977; Dott. h.c. Free Univ. of Trieste. *Publications:* Le Livre de Leonor Fini 1975, Miroir des chats 1976, Fêtes secrètes 1978. *Address:* 8 rue de la Vrillière, 75001 Paris, France.

FINLAND, Maxwell, M.D., D.SC.; American physician; b. 15 March 1902, Russia; s. of Frank and Rebecca (Povza) Finland; unmarried; ed. Boston public schools, Harvard Coll. and Harvard Medical School; postdoctoral hosp. training, Boston City Hosp. 1926-29; fellowships in medicine, Harvard and Boston City Hosp. 1928-38; Prof. of Medicine, Harvard 1940-64, Prof. Emer. 1964-; Dir. Thorndike Memorial Lab. 1963-68, Harvard Medical Services, Boston City Hosp. 1963-68; Epidemiologist, Boston City Hosp. 1968-72, Hon. Physician 1972-; Consultant, Veterans Admin. Hosp. 1945-73, Distinguished Physician 1973-; Charles V. Chaplin Award 1960, Bristol Award 1966, John Phillips Memorial Award 1971, Oscar B. Hunter Award 1971, Sheen Award, American Medical Assn. 1971, Kober Medal, Assn. of American Physicians 1978. *Publications:* articles on infectious diseases, bacteriology, immunology and chemotherapy of infections. *Leisure interests:* music, theatre-going. *Address:* Boston City Hospital, Boston, Mass. 02118, U.S.A. *Telephone:* 617-424-5195.

FINLAY, Allan Martyn, PH.D., LL.M., Q.C.; New Zealand lawyer and politician; s. of David Finlay and Emma Matilda (Thomson) Finlay; m. Zelda May Crosby 1957; one s. two d.; ed. Otago Boys' High School, Otago Univ., London School of Economics and Harvard Law School; Research Asst., League of Nations 1938; Private Sec. to various N.Z. Govt. Ministers 1939-43; M.P. 1946-49, 1963–; Dir. Tasman Empire Airways Ltd. 1958-61; Vice-Pres. N.Z. Labour Party 1956-59, Pres. 1960-64; Attorney-Gen., Minister of Justice, Civil Aviation and Meteorological Services 1972-75; Minister in Charge of Publicity 1974; Head of Del. to Int. Court of Justice to put case against atmospheric nuclear testing by France in the Pacific 1973, 1974; mem. N.Z. Law Revision Comm. 1968. *Publications:* Third Party Contracts 1939, Social Security in New Zealand 1940. *Leisure interests:* music, tramping, argument. *Address:* 21 View Road, Mt. Eden, Auckland 3, New Zealand. *Telephone:* 604179.

FINLEY, James Danielly, B.S.; American textile executive; b. 14 July 1916, Jackson, Ga.; m. Nancy Butler 1941; three s.; ed. Georgia Inst. of Technology and Harvard Business School; mil. service, Second World War; Textile Engineer, Firestone Tyre and Rubber Co.; joined J.P. Stevens & Co. Inc. 1945, Dept. Man. Woollen and Worsted Div. 1951-56, Asst. to Vice-Pres. for Sales and Merchandising, Cotton Div. 1956-58, Vice-Pres. (of Co.) 1958-61, Vice-Pres. in Charge of Cotton Div. Sales and Merchandising 1961, mem. Exec. Cttee. 1959, Exec. Vice-Pres. and mem. Mfg. Advisory Cttee. 1964-65, Chair. of Bd. July 1965-, Chief Exec. Officer 1969-. *Address:* J.P. Stevens & Co. Inc., 1185 Avenue of the Americas, New York, N.Y. 10036; 12 Blossom Cove Road, Red Bank, N.J., U.S.A. (Home).

FINLEY, Moses I., PH.D., F.B.A.; British (born American) historian; b. 20 May 1912; m. Mary F. Thiers 1932; ed. Syracuse Univ., Columbia Univ.; Inst. of Social Research 1937-39; City Coll. of New York 1934-42; exec. posts with war relief agencies 1942-47; Lecturer, then Asst. Prof. of History, Rutgers Univ. 1948-52; Lecturer in Classics, Cambridge Univ. 1955-64, Reader in Ancient Social and Economic History 1964-70, Chair. Faculty Bd. of Classics 1967-69, Chair. Social and Politicial Sciences Cttee. 1973-74; Master of Darwin Coll. Cambridge 1976-; Pres. Classical Assn. 1973-74; Trustee, British Museum 1977-; Hon. D.Litt. (Leicester) 1972; Wolfson Literary Award in History 1972. *Publications:* Studies in Land and Credit in Ancient Athens 1952, The World of Odysseus 1954, (editor) The Greek Historians 1958, (editor) Slavery in Classical Antiquity 1960, The Ancient Greeks 1963, (editor) Josephus 1965, Aspects of Antiquity 1968, Ancient Sicily 1968, Early Greece: The Bronze and Archaic Ages 1970, (editor) Thucydides 1972, Democracy Ancient and Modern 1973, The Ancient Economy 1973, (editor) Studies in Ancient History 1974, The Use and Abuse of History 1975, co-author, The Olympic Games: the First Thousand Years 1976, (editor) Studies in Roman Property 1976, (editor) Atlas of Classical Archaeology 1977, and numerous articles and reviews. *Leisure interests:* conversation, listening to music, travel. *Address:* Darwin College, Cambridge; 12 Adams Road, Cambridge, CB3 9AD, England (Residence). *Telephone:* Cambridge 51761 (Office); Cambridge 57784 (Home).

FINNEY, Albert; British actor; b. 9 May 1936; m. Anouk Aimée 1970 (divorced 1978); ed. Salford Grammar School and Royal Acad. of Dramatic Art; Birmingham Repertory Co. 1956-58; Shakespeare Memorial Theatre Co. 1959; Nat. Theatre 1965, 1975; formed Memorial Enterprises 1966. *Plays acted in include:* Julius Caesar, Macbeth, Henry V, The Beaux' Stratagem, The Alchemist, The

Lizard on the Rock, The Party 1958, King Lear, Othello 1959, A Midsummer Night's Dream, The Lily-White Boys 1960, Billy Liar 1960, Luther 1961, 1963, Much Ado About Nothing, Armstrong's Last Goodnight 1965, Miss Julie 1965, Black Comedy 1965, Love for Love 1965, A Flea in her Ear 1966, A Day in the Death of Joe Egg 1968, Alpha Beta 1972, Krapp's Last Tape 1973, Cromwell 1973, Chez Nous 1974, Hamlet 1976, Tamburlaine the Great 1976, Uncle Vanya 1977, Present Laughter 1977, The Country Wife 1977-78, The Cherry Orchard 1978, Macbeth 1978; Dir. Loot 1975. *Films acted in include:* The Entertainer 1959, Saturday Night and Sunday Morning 1960, Tom Jones 1963, Night Must Fall 1963, Two for the Road 1967, Scrooge 1970, Gumshoe 1971, Murder on the Orient Express 1974; Directed and acted in Charlie Bubbles 1968. *Address:* c/o International Famous Agency, 22 Grafton Street, London, W.1., England.

FINNEY, David John, C.B.E., M.A., SC.D., F.R.S., F.R.S.E.; British professor of statistics, b. 3 Jan. 1917, Latchford, Warrington; s. of Robert George Stringer Finney and Bessie Evelyn Finney (née Whitlow); m. Mary Elizabeth Connolly 1950; one s. two d.; ed. Univs. of Cambridge and London; statistician, Rothamsted Experimental Station 1939-45; Lecturer in the Design and Analysis of Scientific Experiment, Univ. of Oxford 1945-54; Reader in Statistics, Univ. of Aberdeen 1954-64, Prof. of Statistics 1964-66; Prof. of Statistics, Univ. of Edinburgh 1966-; Pres. Biometric Soc. 1964-65; Dir. Agricultural Research Council's Unit of Statistics 1954-; Chair. Computer Bd. for Univs. 1970-74; Pres. Royal Statistical Soc. 1973-74; Hon. D. ès Sciences agronomiques (Gembloux), D.Sc. (City Univ.). *Publications:* Probit Analysis 1947, 1952, 1971, Biological Standarization (with J.H. Burn and L.G. Goodwin) 1950, Statistical Method in Biological Assay 1952, 1964, 1978, Introduction to Statistical Science in Agriculture 1953, 1962, 1972, Experimental Design and its Statistical Basis 1955, Técnica y Teoría en el Diseño de Experimentos 1957, Introduction to the Theory of Experimental Design 1960, Statistics for Mathematicians 1968; about 190 papers. *Address:* Department of Statistics, The University, Edinburgh; 43 Cluny Drive, Edinburgh EH10 6DU, Scotland (Home). *Telephone:* 031-667-1081 (Univ.); 031-447-2332.

FINNISTON, Sir (Harold) Montague, Kt., B.SC., PH.D., F.R.S., F.R.S.A., F.R.S.E.; British metallurgist; b. 15 Aug. 1912, Glasgow, Scotland; s. of Robert Finniston and Esther (née Diamond) Finniston; m. Miriam Singer 1936; one s. one d.; ed. Allen Glen's School, Glasgow, Glasgow Univ. and Royal Coll. of Science and Technology, Glasgow; joined Stewarts & Lloyds 1934; Chief Research Officer, Scottish Coke Research Cttee. 1937; metallurgist, Atomic Energy of Canada, Chalk River 1945-46; U.K. Atomic Energy Authority, Harwell 1948-58; Research Dir. C.A. Parsons & Co. and Man. Dir. Int. Research and Devt. Co. Ltd. 1959-67; Deputy Chair. British Steel Corpn. 1967-73, Chief Exec. 1971-73, Chair. 1973-76; Group Chief Exec. and Dir. Sears Holdings Ltd. 1976-; Dir. Cluff Oil 1976-, GKN 1976; Gen. Sec. B.A.A.S. 1970-73; mem. Bd. Nat. Research Devt. Corpn. 1963-73; Chair. Int. Research Devt. Co. Ltd. 1968-77, Political and Econ. Planning (now Policy Studies Inst.) 1975-, Redpath, Dorman, Long 1972-74, Council, Scottish Business School 1976-; Pres. Metals Soc. 1974-75, Inst. of Man. Services 1977-, Ironbridge Gorge Museum Devt. Trust 1977, Design Industries Assn. 1978; Vice-Pres. Royal Soc.; Vice-Pres. Iron and Steel Inst., Vice-Pres. A.S.L.I.B. 1974-76, Pres. 1976-78; Chair. Cttee. of Inquiry into Engineering 1977; Pro-Chancellor, Surrey Univ. 1977-(80), Chancellor, Stirling Univ. Aug. 1978-; Assoc. of Royal Coll. of Science and Technology; mem. Nat. Econ. Devt. Council 1974-76; Liveryman, Worshipful Co. of Tinplate Workers 1972; mem. British Assn. 1974, Royal Inst. of G.B. 1978; Hon. mem. Materials Science Club, American Iron and Steel Inst., Iron and Steel Inst. of Japan, Inst. of Chemical Eng. 1975, Indian Inst. of Metals, Smeatonian Soc. of Civil Eng. 1977; Fellow, Inst. of Metallurgists, Pres. 1975-76; Fellow, British Inst. of Man. 1972, Univ. of Manchester (UMIST) 1973, Royal Soc. of Arts 1975, Royal Soc. of Edinburgh 1978, Inst. of Physics; Hon. Fellow Sunderland Polytechnic, Inst. of Sheet Metal Eng. 1975; Hon. D.Sc. (Strathclyde) 1968, (Birmingham) 1971, (City Univ.) 1974, (Cranfield Inst. of Tech.) 1976, (Bath) 1977; Hon. D. Univ. (Surrey) 1969, (Stirling) 1979; Hon. D.C.L. (Newcastle) 1976; Hon. D. Eng. (Liverpool) 1978, Hon. LL.D. (Glasgow) 1978; Bessemer Medal, Tawara Gold Medal (Japan) 1975, A.A. Griffiths Silver Medal 1976, Eichner Medal (France) 1976, Glazebrook Medal 1976. *Leisure interests:* walking, reading, spectator sports. *Address:* Sears Holdings Ltd., 40 Duke Street, London, W1M 6AN; Flat 72, 33 Prince Albert Road, St. John's Wood, London, N.W.8, England (Home). *Telephone:* 01-408 1180 (Office).

FIRESTONE, Leonard Kimball, B.A.; American business executive and diplomatist· b. 10 June 1907, Akron, O.; s. of Harvey S. Firestone and Idabelle Smith; brother of Raymond Christy Firestone (*q.v.*); m. 1st Polly Curtis (deceased), 2nd Barbara K. Heatley 1966; two s. one d.; ed. Hill School, Pottstown, Pa., Princeton Univ.; Sales Dept., Firestone Tire & Rubber Co. 1931-41, Vice-Pres. 1932-35, Sales Man., Akron 1935-39, Dir. 1939-73; Pres. Firestone Aviation Products Co. 1941-43; Pres., Gen. Man. Firestone Tire & Rubber Co. of Calif. 1943-70; Lieut. U.S. Navy 1941-43; Amb. to Belgium 1973-77; Dir. Nat. Council on Alcoholism Inc.; mem. Nat. Bd. of Assocs., Smithsonian Inst.; Hon. Chair. Deafness Research Foundation; Past Pres. World Affairs Council; mem., Past Chair. Bd. of Trustees, Univ. of S. California; Hon. LL.D. (S. California) 1965, (Pepperdine) 1971, Hon. D. Hum. (Okla. Christian Coll.) 1970; Grand Band, Order of the Star of Africa 1969. *Address:* 515 South Flower Street, Suite 4470, Los Angeles, Calif. 90071, U.S.A. *Telephone:* (213) 680-28-85.

FIRESTONE, Raymond Christy, B.A. (retd.); American businessman; b. 6 Sept. 1908, Akron, Ohio; s. of Harvey S. Firestone and Idabelle Smith; brother of Leonard Kimball Firestone (*q.v.*); m. 1st Laura Lisk 1935 (deceased 1960), 2nd Jane Allen Messler 1962; two d.; ed. Princeton Univ.; joined Sales Div., The Firestone Tire and Rubber Co. 1933; Gen. Man., Memphis, Tenn. plant 1936-37; Pres. Firestone Tire and Rubber Co. of Tennessee 1937-49; Dir., The Firestone Tire and Rubber Co. 1942-77, Vice-Pres. (Research and Devt.) 1949-54, Exec. Vice-Pres. 1954-57, Pres. 1957-64, Chair. Exec. Cttee. and Chief Exec. Officer 1964-73, Chair. of the Bd. 1966-76, Chief Exec. Officer 1966-73; mem. numerous civic and business orgs.; Hon. LL.D. (Akron), Hon. D.Hum. (Univ. of Liberia); several awards. *Leisure interests:* foxhunting, golf. *Address:* Lauray Farms, Bath, Ohio 44210, U.S.A.

FIRKUŠNÝ, Rudolf; American pianist; b. 11 Feb. 1912, Napajedla, Czechoslovakia; m. Tatiana Nevolova 1965; one s. one d.; ed. Conservatoires of Music, Brno and Prague; first appeared with Czechoslovak Philharmonic Orchestra 1922; world-wide concert tours including tours of Europe 1930-39, South America 1943-, annual tours of Europe and U.S.A. since 1943, tours of Australia, New Zealand 1959, 1967. *Address:* Staatsburg, New York 12580, U.S.A.

FIRNBERG, Hertha, DR. PHIL.; Austrian politician; b. 18 Sept. 1909, Vienna; d. of Dr. Josef and Anna Firnberg; m. 1932; ed. Univs. of Vienna and Freiburg i. Br.; employed by Prokura (publishers) 1941-45; Asst. Inst. for Econ. and Cultural History, Univ. of Vienna 1946; Head of Statistical Dept., Chamber for Blue and White-Collar Workers, Lower Austria 1948-69; mem. Bundesrat 1959, Nationalrat 1963; Chair. Socialist Party's Fed. Women's Cttee. 1966-; Deputy to Chair. Fed. Socialist Party 1966-; Minister without Portfolio April 1970; Minister for Science and Research July 1970–; Körnerpreis; Förderungspreis der Stadt Wien. *Publications:* various sociological studies. *Leisure interests:* reading, swimming, walking. *Address:* 1100 Vienna, Altdorferstrasse 5, Austria.

FIRTH, Sir Raymond William, Kt., M.A., PH.D., F.B.A.; British social anthropologist; b. 25 March 1901, Auckland, N.Z.; s. of Wesley Hugh Bourne Firth and Marie Elizabeth Jane Firth (née Cartmill); m. Rosemary Upcott 1936; one s.; ed. Auckland Univ. Coll. and London School of Economics; field research in anthropology, Tikopia, British Solomon Islands Protectorate 1928-29; Lecturer in Anthropology, Univ. of Sydney 1930-31, Acting Prof. 1931-32; Lecturer in Anthropology, L.S.E. 1932-35, Reader 1935-44, Prof. 1944-68; Emer. Prof. Univ. of London 1968-; Prof. Pacific Anthropology, Hawaii Univ. 1968-69; Visiting Prof. Univ. of British Columbia 1969, Cornell Univ. 1970, Univ. of Chicago 1955, 1970-71, Graduate Center City Univ. of New York 1971-72, Australia Nat. Univ., Camberra 1972-73, Univ. of Calif., Davis 1974, Berkeley 1977; Hon. Sec. Royal Anthropological Inst. 1936-39, Pres. 1953-55; research in peasant econs. and anthropology in Malaya as Leverhulme Research Fellow 1939-40; served with Naval Intelligence Div. Admiralty 1941-44; Sec. of Colonial Social Science Research Council, Colonial Office 1944-45; research surveys in West Africa 1945, Malaya 1947, New Guinea 1951-; field research in Tikopia 1952, 1966; Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, Calif. 1959; Foreign Hon. mem. American Acad. of Arts and Sciences, American Philosophical Soc., Royal Soc. of New South Wales, Royal Soc. of New Zealand, Royal Danish Acad. of Sciences and Letters; Hon. Ph.D. (Oslo) 1965, Hon. LL.D. (Michigan) 1967, Hon. D.Litt. (East Anglia) 1968, (Australian Nat. Univ.) 1969, (Exeter) 1972, Hon. D.Hum. Letters (Chicago) 1968, Hon. D.Sc. (British Columbia) 1970; Viking Fund Medal 1959, Huxley Memorial Medal 1959. *Publications:* The Kauri Gum Industry 1924, Primitive Economics of the New Zealand Maori 1929, Art and Life in New Guinea 1936, We, The Tikopia: A Sociological Study of Kinship in Primitive Polynesia 1936, Human Types 1938, Primitive Polynesian Economy 1939, The

Work of the Gods in Tikopia 1940, Malay Fishermen: Their Peasant Economy 1946, Elements of Social Organization 1951; Ed. Two Studies of Kinship in London 1956, Ed. Man and Culture: An Evaluation of the Work of Malinowski 1957, Social Change in Tikopia 1959, History and Traditions of Tikopia 1961, Essays on Social Organization and Values 1964, Ed. Themes in Economic Anthropology 1967, Tikopia Ritual and Belief 1967, Rank and Religion in Tikopia 1970, Families and their Relatives (with Jane Hubert and Anthony Forge) 1970, The Sceptical Anthropologist, Social Anthropology and Marxist Views of Society 1972, Symbols Public and Private 1973; articles and contributory chapters. *Leisure interests:* Romanesque art, 15th-18th century music. *Address:* 33 Southwood Avenue, London, N.6, England. *Telephone:* 01-348 0768.

FIRYUBIN, Nikolay Pavlovich; Soviet diplomatist; b. 4 April 1908, Ulyanovsk; ed. Ordzhonikidze Aviation Inst., Moscow; mem. CPSU 1929-; engineer, aircraft industry 1935-38; party and Soviet work 1938-53; Sec. Moscow Regional Cttee. CPSU 1940-49; Diplomatic Service 1953-, Minister-Counsellor, U.S.S.R. Embassy, Czechoslovakia 1953, Amb. 1954-55, to Yugoslavia 1955-57; Deputy Minister of Foreign Affairs U.S.S.R. 1957-; Cand. mem. Cen. Cttee. CPSU 1955-66; Sec.-Gen. Joint Secr. Warsaw Treaty Org.; Orders of Lenin, Red Banner of Labour, Great Patriotic War (1st Class), Red Star, etc. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

FISCHER, Annie; Hungarian pianist; b. 1914; widow of Aladár Toth; ed. Budapest Acad. of Music; studies with Arnold Székely and Ernő von Dohnányi; concert debut in Beethoven's C Major Concerto 1922; numerous concerts, tours and recordings 1926-; 1st Prize, Int. Liszt Competition, Budapest 1933; Kossuth Prizes 1949, 1955 and 1965; Hon. Prof. of Acad. of Music, Budapest 1965; decorated Eminent Artist; Red Banner Order of Labour 1974. *Address:* Szent Istvan Park 14, H-1137 Budapest XIII, Hungary.

FISCHER, Ernst Otto, DR.RER.NAT., DIPL.CHEM.; German professor of chemistry, b. 10 Nov. 1918, Müchen-Solln; s. of late Prof. Dr. Karl Tobias Fischer and Valentine Danzer; ed. Theresiengymnasium and Tech. High School, Munich; Lecturer in Chem. (now Tech. Univ.) 1954-57, Prof. of Inorganic Chem. 1964-; Prof. of Inorganic Chem., Munich Univ. 1957-64, Univ. of Jena 1959, Univ. of Marburg 1960, 1964-; Firestone Lecturer, Univ. of Wisconsin 1969; Visiting Prof., Univ. of Florida 1971; Inorganic Chem. Pacific West Coast Lecturer, U.S.A., Canada 1971; Arthur D. Little Visiting Prof., M.I.T. 1973; Visiting Distinguished Lecturer, Univ. of Rochester 1973; mem. Bayerische Akad. der Wissenschaften 1964, Deutsche Akad. der Naturforscher Leopoldina 1969; corresp. mem. Austrian Acad. of Sciences 1976, Acad. of Sciences Göttingen 1977; foreign mem. Accad. Naz. dei Lincei 1976; foreign hon. mem. American Acad. of Arts and Sciences 1977; Hon. Dr.rer.nat. (Univs. of Munich 1972, Erlangen, Nuremberg 1977), Hon. D.Sc. (Strathclyde) 1975; American Chem. Soc. Centennial Fellow 1976; Göttinger Acad. Prize for Chemistry 1957, Alfred-Stock-Gedächtnis Prize 1959, Nobel Prize for Chemistry 1973. *Publications:* 410 scientific publs., $Fe(C_5H_5)_2$ Structure 1952, $Cr(C_6H_6)_2$ 1955, Übergangsmetall-Carben-Komplexe 1964, 1973, Metal-Complexes Vol. I (with H. Werner) 1966. *Leisure interests:* history, arts, mountaineering. *Address:* Sohnckestrasse 16, 8 Munich 71, Federal Republic of Germany. *Telephone:* 794623.

FISCHER, Gottfried Bermann, DR.MED., DR.PHIL. h.c.; American publisher; b. 31 July 1897, Gleiwitz, Silesia, Germany (now Gliwice, Poland); m. Brigitte Fischer 1926; three d.; ed. Univs. of Breslau, Freiburg and Munich; Asst. Surgeon in Berlin hosp. 1923-25; with S. Fischer Verlag 1925-, Owner and Pres. 1934, firm moved to Vienna 1936, to Stockholm 1938; emigrated to U.S.A. 1940, founded L.B. Fischer Corpn., New York; re-established S. Fischer Verlag in Frankfurt/Main 1950, later Chair. of Bd. S. Fischer Verlag GmbH, retd. 1972; founded Fischer Bücherei, Frankfurt (paperback publs.) 1952; Ed. Neue Rundschau (literary periodical); Goethe Plakette (Frankfurt) 1957, Grosses Bundesverdienstkreuz 1958. *Publications:* Autobiography Bedroht-Bewahrt, Fischer Verlag 1967; Correspondence with Thomas Mann 1932-1955 1973, Lebendige Gegenwart, Reden und Aufsätze 1977. *Leisure interests:* sculpturing, tennis. *Address:* Casa Fischer, 1-55041 Camaiore (Lucca), Italy; 6 Daffodil Lane, Cos Cob, Conn.; P.O. Box 237, Old Greenwich, Conn. 06807, U.S.A. *Telephone:* Camaiore 0584 689088 (Italy); 203-661-5226 (U.S.A.).

FISCHER, Hanns, DR.RER.NAT.; German professor of chemistry; b. 21 July 1935, Darmstadt, Fed. Germany; s. of Karl Fischer and Irma (née Schrauth); m. Irmelin Walter 1964; one s. one d.; ed. Tech. High School, Darmstadt, Univ. of Munich; Lecturer, Tech. High School, Darmstadt 1966; Deputy Head of Dept., Kunststoff-Institut, Darmstadt 1966; Prof. Extraordinary, Univ. of Zürich 1969, Prof. of Physical Chem. 1971-; J.S. Stas Medal 1971, Centenary Lectureship 1974. *Publications:* Magnetic Properties of Free Radicals 1965, about 100 articles on free radicals, structure and reaction kinetics 1959-75. *Leisure interests:* recorder playing, walking on mountains. *Address:* Physikalisch-Chemisches Institut der Universität, Winterthurerstrasse 190, CH-8057, Zürich; Talstrasse 18, CH-8125 Zollikerberg, Switzerland. *Telephone:* 01/32-62-41 (Office); 01/63-93-83 (Home).

FISCHER, Josef; German business executive; b. 11 July 1912, Oberhausen, Rheinland; s. of Johann J. and Karoline Fischer; m. Martha Kückelhaus 1932; four s. three d.; ed. Demag AK, Duisberg; Hauptrevision Vereinigte Stahlwerke until 1954; Dir. of Finance, Deutsche Kohlenbergbau-Leitung 1946; mem. Exec. Bd. Altenessener Bergwerks AG 1952, Harpener Bergbau AG 1957, Hoesch AG 1965, Estel NV 1972; Deputy Chair. Estel NV Hoesch-Hoogovens 1973-76; Chair. of Bd. Hoesch AG, Hoesch Werke AG 1973-; mem. supervisory bds. of various other cos. *Leisure interests:* golf, swimming, walking, books, music. *Address:* 4307 Kettwig/Ruhr, Am Stammensberg 38, Federal Republic of Germany. *Telephone:* 02144-4720 (Home).

FISCHER, Oskar; German diplomatist; b. 19 March 1923, Asch, Czechoslovakia; m.; one c.; ed. elementary school, Coll. of Cen. Cttee. of CPSU (1962-65); mem. Socialist Unity Party (SED) 1946–; tailor 1946-47; Chair. Spremberg Dist. Exec. 1947-48, Land Exec. of Brandenburg 1949-50; Sec. Cen. Council Free German Youth, World Fed. of Democratic Youth 1951-55; mem. World Youth Council 1952-55; Amb. to Bulgaria 1955-59; head of section, Cen. Cttee. of SED 1960-62, mem. Cen. Cttee. 1971-; Deputy Minister of Foreign Affairs 1965-73, State Sec. and Perm. Deputy Minister 1973-75, Minister 1975-; Deputy of People's Chamber 1976-; Patriotic Order of Merit, Banner of Labour, Medal of Merit and other awards. *Address:* Ministerium für Auswärtige Angelegenheiten, Berlin, German Democratic Republic.

FISCHER, Paul, D.IUR.; Danish diplomatist; b. 24 March 1919, Copenhagen; s. of Ernst Fischer and Ellen Dahl; m. Jytte Kalckar 1945; one s.; ed. Lyceum Alpinum, Zuoz, Switzerland and Univ. of Copenhagen. Foreign Service 1944-, Stockholm, The Hague, Ministry of Foreign Affairs 1944-60; Del. Gen. Assembly, UN 1959, 1961; Amb. to Poland 1960-61; Perm. Under-Sec. of State for Foreign Affairs 1961-71; Amb. to France 1971-; Commdr. Order of Dannebrog (1st Class) and foreign decorations. *Address:* Embassy of Denmark, avenue Marceau 77, Paris 16e, France.

FISCHER, Robert James (Bobby); American chess player; b. 9 March 1943, Chicago; s. of Mrs Regina Fischer; started to play chess aged 6; mem. Manhattan Chess Club 1955; U.S. Junior Chess Champion 1956, 1957; winner, U.S. Open Championship 1957, 1959, 1960, 1962, 1963; participated in Interzonal Tournament, Portoroz, Yugoslavia 1958; named Int. Grand Master (the youngest ever) 1958; has participated in numerous int. chess tournaments 1958-; defeated Boris Spassky (*q.v.*) to become World Chess Champion 1972-75; City of New York Gold Medal 1972. *Publications:* Games of Chess 1959, My Sixty Memorable Games 1969, Bobby Fischer Teaches Chess 1972. *Address:* 560 Lincoln Plaza, Brooklyn, N.Y. U.S.A.

FISCHER-DIESKAU, Dietrich; German baritone; b. 28 May 1925, Berlin; s. of Dr. Albert Fischer-Dieskau and Dora Klingelhöffer; m. 1st Cellistin Irmgard Poppen 1949 (died 1963), 2nd Ruth Leuwerik 1965 (divorced 1967), 3rd Kristina Pugell 1968; three s. by first marriage; ed. high school in Berlin, singing studies with Prof. Georg Walter and Prof. Hermann Weissenborn; military service 1943-45; P.O.W. in Italy until 1947; First Lyric and Character Baritone, Berlin State Opera 1948-; mem. Vienna State Opera Co. 1957-; numerous concert tours in Europe, U.S.A. and Asia; has appeared at a number of festivals: Bayreuth, Salzburg, Lucerne, Montreux, Edinburgh, Vienna, Holland, Munich, Berlin, Coventry, etc.; best-known roles in Falstaff, Don Giovanni, Le nozze de Figaro, etc.; first performances of contemporary composers Britten, Henze, Tippett, etc.; mem. Akad. der Künste, Int. Mahler-Geselschaft (Vienna) and German Section, Int. Music Council; Hon. mem. Wiener Konzerthausgesellschaft 1963, Royal Acad. of Music (London), Royal Acad. (Stockholm); Hon. D. Univ. (Oxford) 1978; Int. Recording Prizes 1955, 1957, 1958, 1960, 1963, 1964, 1965, 1967, 1969, 1970; Berlin Kunstpreis 1950, Mantua Golden Orpheus Prize 1955; Bundesverdienstkreuz, 1st Class 1958; Edison Prize 1960, 1962, 1964, 1965, 1967, 1970; Mozart Medal 1962, Golden Orpheus 1967; Grosses Verdienstkreuz des Verdienstordens der Bundesrepublik Deutschland 1974. *Publications:* Texte Deutscher Lieder,

Auf den Spuren der Schubert-Lieder, Wagner und Nietzsche, der Mystagoge und sein Abtrünniger 1974. *Leisure interest:* painting. *Address:* Lindenallee 22, 1 Berlin 19, Germany.

FISHER, Adrian Sanford; American government official; b. 21 Jan. 1914; s. of Hubert Fisher and Louise Sanford; m. Laura Graham 1945; two d.; ed. Univs. of Princeton and Harvard; U.S. Army service 1942-46; Law Sec. to Assoc. Justices of U.S. Supreme Court 1938-39; Attorney, Bonneville Power Admin. 1939, Securities and Exchange Comm. 1939-40, Tennessee Valley Authority 1940-41; Asst. to Legal Adviser Dept. of State 1941, Asst. Chief, Foreign Funds Control Div. 1941-42; Solicitor, Dept. of Commerce 1946-48; Gen. Counsel, Atomic Energy Comm. 1948-49; Legal Adviser, Dept. of State 1949-53; Private legal practice 1953-54; Prof. of Int. Law and Trade, Georgetown Univ. 1953-58, Dean, Law Centre 1969-75, Francis Cubell Brown Prof. Int. Law 1975-; mem. U.S. Panel on Perm. Court of Arbitration 1953-59; Vice-Pres. and Counsel, The Washington Post Co. 1955-61; Deputy Dir. U.S. Arms Control and Disarmament Agency 1961-69. *Address:* 600 New Jersey Avenue, N.W., Washington, D.C. 20001 (Office); 2721 N Street, N.W., Washington, D.C. 20007, U.S.A. (Home).

FISHER, Ernest M(cKinley), A.M., PH.D., LL.D.; American economist; b. 15 May 1893, Macedonia, Ill.; s. of Marshall Duff and Ada C. (Vise) Fischer; m. Ethel Moore 1922; one s.; ed. McKendree Coll., Coe Coll. and North western and Wisconsin Univs.; Instructor American Univ., Beirut 1914-17, Wisconsin Univ. 1919-22; Dir. of Research Nat. Assen. of Real Estate Boards 1923-26; Prof. of real estate management, Univ. of Michigan 1926-34; economic adviser Federal Housing Admin. 1934-40; Chair. Housing Census Advisory Cttee., Bureau of the Census 1939-42, 1959-63, 1965-71; dir. of mortgage and real estate finance and dep. man. American Bankers Assen. 1940-45; Prof. of Urban Land Econs., Columbia Univ. 1945-61, Emer. 1961-; Special Lecturer, School of Architecture 1961-64; Special Lecturer in Planning, Yale Univ. 1962; Chair. Admin. Bd. and Dir. of the Inst. for Urban Land Use and Housing Studies, Columbia Univ. 1947-55; Consultant Bd. of Govs. Fed. Reserve System 1950-53; Dir. First Fed. Savings and Loan Assen. of New York 1954-68; Consultant to Ford Foundation 1961, 1964-, and to Fed. Deposit Insurance Corpn. 1965-66; Consultant to Worcester County Inst. for Savings 1955-68, to Small Business Admin. 1966-71, to First Nat. Mortgage Bank Ltd., Nassau 1966-67; mem. American Econ. Assen.; Fellow American Statistical Assen.; fmr. Fellow American Geographical Soc. and A.A.A.S.; Cert. for distinguished service, Bureau of Census 1969. *Publications:* Advanced Principles of Real Estate Practice 1930, European Housing Policy and Practice (with Richard U. Ratcliff) 1936, Urban Real Estate Markets: Characteristics and Financing 1951, Urban Real Estate (with Robert Moore Fisher) 1954, The Mutual Mortgage Insurance Fund (with Chester Rapkin) 1956, U.S. Housing and Congressional Goals 1975, Urban Housing Market Performance in America 1870-1970 (with C.J. Stokes) 1975; Editor Home Mortgage Lending, Home Mortgage Loan Manual, etc. *Leisure interests:* gardening, photography, folk music, carpentry, travel. *Address:* 199 Hillcrest Avenue, Leonia, N.J. 07605, U.S.A. *Telephone:* 201-944-3302.

FISHER, Hon. Sir Henry Arthur Pears, Kt., M.A.; British lawyer, businessman and college principal; b. 20 Jan. 1918, Repton, Derbyshire; s. of late Most Rev. and Rt. Hon. Lord Fisher of Lambeth, P.C., G.C.V.O., D.D. (Archbishop of Canterbury, 1945-61) and of Lady Fisher of Lambeth; m. Felicity Sutton 1948; one s. three d.; ed. Marlborough Coll., Christ Church, Oxford; served in Leics. Regt. (rank of Hon. Lieut.-Col.) 1940-46; Barrister-at-law 1947-68, Judge of the High Court 1968-70, Q.C. 1960; Dir. J. Henry Schroder Wagg and Co. Ltd. 1970-75, Thomas Tilling Ltd. 1970-, Equity and Law Life Assurance Soc. Ltd. 1975-; Chair. Bd. of Govs. Imperial Coll. 1975-, of Council, Marlborough Coll. 1977-; Pres. Wolfson Coll., Oxford 1975-; Trustee, Pilgrim Trust 1965-; Fellow, All Souls Coll., Oxford 1946-73, Emer. 1975-. *Leisure interest:* music. *Address:* Wolfson College, Oxford, England. *Telephone:* Oxford 56711.

FISHER, Max Henry; British journalist; b. 30 May 1922, Berlin; s. of Friedrich Fischer and Sophia Baks; m. Rosemary Margaret Maxwell 1952; two s. one d.; ed. Rendcomb Coll. and Lincoln Coll., Oxford; army service 1942-46; German War Documents Project, Foreign Office Library 1949-56; Visiting Lecturer, Melbourne Univ. 1956; Financial Times, successively Diplomatic Corresp., Foreign Ed., Asst. Ed., Deputy Ed. 1957-73; Ed., Financial Times 1973-; mem. Royal Inst. of Int. Affairs 1977-. *Publications:* With Prof. N. Rich, ed. The Holstein Papers (4 vols.). *Leisure interests:* music, history, playing bad golf. *Address:* 16 Somerset Square, Addison Road, London, W.14, England.

FISHER, William Bayne, B.A., DR. DE L'UNIV. (Paris); British university professor; b. 24 Sept. 1916, Darwen, Lancs.; ed. Univs. of Manchester, Louvain, Caen and Paris; Research Fellow 1937-40; served in R.A.F. 1940-46, commissioned 1941, C.O., R.A.F. Liaison Unit, Syria and Lebanon 1944-45; Lecturer, Univ. of Manchester 1946; Lecturer, Dept. of Geography, Aberdeen Univ. 1947-53; Reader and Head of Dept. of Geography, Univ. of Durham 1954-56, Prof. 1956-; Visiting Prof. Univ. of Leuven 1978; Dir. Centre of Middle Eastern and Islamic Studies 1962-65; Prin., Graduate Soc. 1965-; Consultant, H.M. Govt., Govt. of Libya and Harvard Univ., U.S.A.; Leader Univ. Expedition to Libya 1951; Murchison Award, Royal Geographical Soc. 1973. *Publications:* The Middle East—a Physical, Social and Regional Geography 1950, Spain (with H. Bowen-Jones) 1958, Malta (with H. Bowen-Jones and J. C. Dewdney), Editor Vol. I The Cambridge History of Iran (land and people) 1968, Populations of the Middle East and North Africa (with J. I. Clarke) 1972. *Leisure interests:* travel, music, geographical gastronomy. *Address:* Department of Geography, South Road, Durham, DH1 3LE, and 38 Old Elvet, Durham, DH1 3JD (Office); 42 South Street, Durham DH1 4QP, England (Home). *Telephone:* 64971 and 64466 (Office); 64291 (Home).

FISK, James Brown, B.S., PH.D.; American physicist; b. 30 Aug. 1910, West Warwick, R.I.; s. of Henry James Fisk and Bertha Brown; m. Cynthia Hoar 1938; three s.; ed. M.I.T. and Trinity Coll., Cambridge; Junior Fellow of Soc. of Fellows, Harvard Univ. 1936-38, Gordon McKay Prof. of Applied Physics and Sr. Fellow 1947-49, Assoc. Prof. of Physics, Univ. of N. Carolina 1938-39; electronics research engineer and later Asst. Dir. Physical Research, Bell Telephone Labs. 1939-47, 1949-52, Dir. of Research, Physical Sciences 1952-54, Vice-Pres. Research 1954-55, Dir. 1955-74, Exec. Vice-Pres. 1955-59, Pres. 1959-73, Chair. of Bd. 1973-74; Dir. of Research Div., U.S. Atomic Energy Comm. (resgnd. 1948); mem. Pres.'s Science Advisory Cttee. 1952-60, Consultant 1960-73; mem. Gen. Advisory Cttee. to U.S. Atomic Energy Comm. 1952-58; Dir. Neptune Int. Co., The Equitable Life Assurance Soc. of the U.S., American Cyanamid Co., American Nat. Bank & Trust Co. Ltd., Cummins Engine Co., Corning Glass Works; Life mem. M.I.T. Corpn.; mem. Bd. of Overseers of Harvard Coll. 1961-67, Nat. Acad. Eng.; mem. American Philosophical Soc., Nat. Acad. of Sciences; Fellow American Acad. of Arts and Sciences, American Physical Soc., Inst. of Electrical and Electronics Engineers; Trustee, John Simon Guggenheim Memorial Foundation, Alfred P. Sloan Foundation; many hon. degrees. *Publications:* Articles in Proceedings of Royal Society 1933-34, Physical Review 1934-40, Bell System Technical Journal 1946. *Leisure interests:* mountain climbing, gardening, golf. *Address:* Bell Telephone Laboratories Inc., Murray Hill, New Jersey 07974; Lees Hill Road, Basking Ridge, N.J., U.S.A. (Home). *Telephone:* 201-582-4471.

FISTOULARI, Anatole; British conductor; b. 20 Aug. 1907; ed. Kiev, Berlin and Paris; first symphony concert, Kiev 1914, later conducted all over Russia; concerts in Western Europe 1920; conducted Grand Opera Russe, Paris, with Chaliapin 1931; conducted Ballet de Monte Carlo with Massine in England, France, Italy and U.S.A.; first symphony concert with London Symphony Orchestra 1942, Prin. Conductor, London Philharmonic Orchestra 1943-44; Founder and Prin. Conductor of London Int. Orchestra 1943, now guest conductor; numerous engagements in Europe, Israel, South Africa and the Americas; numerous recordings. *Address:* 65 Redington Road, London, N.W.3, England.

FITCH, Val Logsdon, B.ENG., PH.D.; American physicist; b. 10 March 1923, U.S.A.; s. of Fred B. Fitch and Frances M. Logsdon Fitch; m. 1st Elise Cunningham 1949 (died 1972), 2nd Daisy Harper 1976; two s.; ed. McGill and Columbia Univs. U.S. Army 1943-46; Instructor, Columbia Univ. 1953-54, Princeton Univ. 1954, rising to Prof., Princeton Univ. 1960-, Chair. Dept. of Physics 1976-; Sloan Fellow 1960-64; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, President's Science Advisory Cttee. 1970-73; Research Corpn. Award 1968; Ernest Orlando Laurence Award 1968, John Witherill Medal, Franklin Inst. 1976. *Publications:* Major publs. in area of elementary particles. *Leisure interest:* conservation. *Address:* Joseph Henry Laboratories, P.O. Box 708, Princeton University, Princeton, N.J., U.S.A. *Telephone:* 609-452-4374.

FITOURI, Mohamed, L. EN D.; Tunisian politician; b. 4 April 1925, Kairouan; m. two c.; ed. Lycée Carnot, Tunis, inst. des Hautes Etudes, Tunis and Faculté de Droit, Paris; called to the bar 1952; mem. Council Nat. Assen. of Lawyers 1960; Advocate, Court of Cassation 1962; mem. Econ. and Social Council; City Counsellor, Tunis 1969; Deputy to Nat. Assembly Nov. 1969-; Minister of Justice 1970-71, of Finance 1971-77, of Foreign Affairs Dec. 1977–;

Grand Cordon, Ordre de la République, Ordre de l'Indépendance. *Address:* Ministry of Foreign Affairs, Tunis; and 17 rue Slaheddine, El Ayoubi, Tunis, Tunisia.

FITT, Hon. Gerard; British politician; b. 9 April 1925, Belfast; s. of George Patrick Fitt and Mary Ann Fitt; m. Ann Doherty 1947; five d.; entered local politics in Belfast 1955; mem. Northern Ireland Parl., Stormont, for Dock Constituency 1962-72; mem. U.K. Parl., Westminster, for Belfast West 1966-; Deputy Chief Exec., N. Ireland Assembly 1974-1975; Leader, Social Democratic and Labour Party (SDLP). *Address:* 85 Antrim Road, Belfast, Northern Ireland; Irish Club, 82 Eaton Square, London, S.W.1, England.

FITTIPALDI, Emerson; Brazilian racing driver; b. 12 Dec. 1946, São Paulo; s. of Wilson and Juze Fittipaldi; m. Maria Helena Dowding 1970; one s. one d.; ed. scientific studies. Brazilian Champion Formula V and Go-Kart 1967; Formula 3 Lombard Championship 1969; World Champion 1972, 1974; Second in World Championship 1973, 1975. *Leisure interests:* tennis, radio control aeroplanes and all kinds of sports. *Address:* Fittipaldi Empreendimentos, S.A., Avenida Brigadeiro Faria Lima, 1323, 6° andar São Paulo, S.P., Brazil; Avenue de Lonay 7, 1110 Morges, Switzerland. *Telephone:* 2110219, 2104703 (São Paulo); (021) 719455 (Switzerland).

FITZGERALD, Ella; American singer; b. 25 April 1918; sang with Chick Webb Band 1934-39; toured with Jazz at the Philharmonic troupe in United States, Japan, and Europe 1948; appeared in film Pete Kelly's Blues 1955; numerous night club and television and concert appearances 1956-; toured with An Evening of Jazz troupe in Sweden, Norway, Denmark, France, Belgium, Germany, Italy, Switzerland 1957; many awards from musicians' polls and Downbeat and Metronome magazines; recordings for Decca 1936-55, Verve 1956-. *Records include:* Mack the Knife 1960, Ella Fitzgerald 1965, Things Ain't What They Used To Be 1965, Tribute to Porter 1965, Whisper Not 1966, Côte d'Azur (with Duke Ellington) 1967, Best 1967. *Address:* c/o Salle Productions Inc., 451 North Canon Drive, Beverly Hills, Calif., U.S.A.

FITZGERALD, Dr. Garret; Irish economist and politician; b. 9 Feb. 1927, Dublin s. of late Desmond Fitzgerald and Mabel McConnell; m. Joan O'Farrell 1947; two s. one d.; ed. Belvedere Coll. and Univ. Coll. Dublin; called to the Bar 1946; fmrly. Research and Schedules Man. Aer Lingus, Lecturer in Political Econ. Univ. Coll., Dublin, mem. Nat. Univ. of Ireland Senate, Econs. Corresp. and Hon. Sec. Inst. of Transport; fmr. mem. Seanad Eireann; mem. Dáil for Dublin South-East and Fine Gael Front Bench mem. 1969-, Leader and Pres. Fine Gael 1977-; Minister for Foreign Affairs 1973-77; Pres. Irish Council of European Movement. *Publications include:* Towards ■ New Ireland. *Address:* Dáil Eireann, Leinster House, Kildare Street, Dublin 2, Ireland.

FITZGERALD, Stephen, PH.D.; Australian scholar and diplomatist; b. 1938; m.; two d.; ed. Australian Nat. Univ., Canberra; with Dept. of Foreign Affairs 1961-66; Amb. to People's Repub. of China 1973-76; Professorial Fellow, Dept. of Far Eastern History, Head Contemporary China Centre, Australian Nat. Univ. *Address:* Department of Far Eastern History, Research School of Pacific Studies, Australian National University, P.O. Box 4, Canberra, A.C.T., Australia.

FITZGIBBON, (Robert Louis) Constantine (Lee-Dillon), F.R.S.L.; Irish author; b. 8 June 1919; s. of Commdr. Francis Lee-Dillon FitzGibbon and Georgette Folsom; m. Marjorie Steele 1967; one s. (by previous m.) one d.; ed. Univ. of Munich, Sorbonne and Exeter Coll., Oxford; fmr. Vice-Pres. Irish Acad. of Letters; Hon. Fellow, Royal Soc. of Literature; Fellow, Guggenheim Memorial Foundation 1966. *Publications:* The Arabian Bird 1949, The Iron Hoop 1950, Dear Emily 1952, Miss Finnigan's Fault, Norman Douglas, The Holiday 1953, The Little Tour 1954, The Shirt of Nessus 1955, In Love and War 1956, The Blitz 1957, Paradise Lost and More 1959, When the Kissing had to Stop 1960, Going to the River 1963, Random Thoughts of a Fascist Hyena 1963, The Life of Dylan Thomas 1965, Selected Letters of Dylan Thomas (editor) 1966, Through the Minefield 1967, Denazification 1969, High Heroic 1969, Out of the Lion's Paw 1969, Red Hand: The Ulster Colony 1971, A Concise History of Germany 1972, In the Bunker 1973, The Life and Times of Eamon de Valéra 1973, The Golden Age 1974, Maxims of La Rochefoucauld 1974, Secret Intelligence in the Twentieth Century 1976, Man in Aspic 1977, Teddy in Tree 1977; translations from French, German and Italian; contributions to periodicals in Britain, America and elsewhere. *Address:* St. Ann's, Killiney Hill Road, Co. Dublin, Ireland.

FITZHUGH, Gilbert Wright; American insurance executive; b. 8 July 1909, New York; s. of Herbert W. Fitzhugh and Ethel Gilbert Fitzhugh; m. Léa Van Ingh 1933; one s. one d.; ed. Princeton Univ. Metropolitan Life Insurance Co. 1930-73, Asst. Gen. Man. Canadian Head Office 1946, 1947, Vice-Pres. in charge of Planning and Devt., New York 1958-60, Vice-Pres., Gen. Man. for Canada 1960-61, Exec. Vice-Pres. New York 1962, Pres. 1963-66, Chair. of Bd. and Chief Exec. Officer 1966-73; Dir. Lloyds Bank Calif., Singer Co., Metromedia, ARA Services; Trustee, California Inst. of Technology; Fellow, Soc. of Actuaries. *Leisure interests:* hiking, golfing, travelling, photography. *Address:* Box 1452, Rancho Santa Fe, Calif. 92067, U.S.A. *Telephone:* 714-756-3585.

FITZMAURICE, Sir Gerald (Gray), G.C.M.G., Q.C., B.A., LL.B.; British lawyer, international judge and administrator; b. 24 Oct. 1901, Storrington, Sussex; s. of Vice-Adm. Sir Maurice and Mabel Gertrude (Gray) Fitzmaurice; m. Alice Evelina Alexandra Sandberg 1933; two s.; ed. Malvern and Gonville and Caius Coll., Cambridge; called to Bar, Gray's Inn 1925, Bencher 1961; legal practice 1925-29, 1973-; Third Legal Adviser, Foreign Office 1929; Legal Adviser, Ministry of Econ. Warfare 1939-43; Second Legal Adviser, Foreign Office 1945-53, Legal Adviser 1953-60; Legal Adviser to U.K. Dels., San Francisco UN Charter Conf. 1945, Paris Peace Conf. 1946, UN Assembly 1946, 1948-59, Japanese Peace Conf., San Francisco 1951, Berlin and Manila Confs. 1954, Law of the Sea Confs. 1958, 1960; Judge, Int. Court of Justice 1960-73; Judge of the European Court of Human Rights 1974-; mem. UN Int. Law Comm. 1955-60, Pres. 1959; mem. Inst. Int. Law, Pres. 1967-69; Pres. Grotius Soc. 1956-60; Hon. Fellow, Caius Coll. 1961, Hon. LL.D. (Edin.) 1970, (Cambridge) 1972, (Utrecht) 1976. *Leisure interest:* drawing. *Address:* 2 Hare Court, Temple, London, E.C.4; 3 Gray's Inn Square, London, W.C.1, England (Home). *Telephone:* 01-353 0076, 01-583 2574 and 01-242 4339.

FITZPATRICK, Gen. Sir (Geoffrey Richard) Desmond, G.C.B., D.S.O., M.B.E., M.C.; British army officer (retd.); b. 14 Dec. 1912, Ash Vale, Hants; s. of late Brig.-Gen. Sir Richard Fitzpatrick, C.B.E., D.S.O., and Lady Fitzpatrick; m. Mary Campbell 1944; one s. one d.; ed. Eton Coll. and Royal Military Coll., Sandhurst; commissioned 1932; served in Palestine 1938-39, in Middle East, Italy and N.W. Europe 1939-45; ADC to H.M. The Queen 1959; Asst. Chief of Defence Staff, Ministry of Defence 1959-61; Dir. Mil. Operations, War Office 1962-64; Chief-of-Staff, British Army of the Rhine (B.A.O.R.) 1964-65; GOC-in-C., N. Ireland 1965-66; Vice-Chief of Gen. Staff 1966-68; promoted Gen. 1968; C.-in-C. B.A.O.R. and Commdr. Northern Army Group 1968-70; Deputy Supreme Allied Commdr., Europe 1970-73; ADC (Gen.) to the Queen 1970-73; Lieut.-Gov. and C.-in-C. of Jersey 1974-. *Leisure interests:* sailing and shooting. *Address:* Government House, Jersey, Channel Islands.

FITZPATRICK, Thomas J.; Irish politician and solicitor; b. 1918, Scotstown, Co. Monaghan; ed. St. Macartan's coll., Monaghan, and Univ. Coll., Dublin. Solicitor 1939-; Councillor, Cavan Co. Council 1950-, Chair. 1960 and 1961, fmr. mem. various local authority cttees.; mem. Seanad Eireann 1961-65; mem. Dáil 1965-; fmr. mem. Fine Gael Front Bench and Nat. Exec.; Fine Gael Spokesman on Local Govt. 1969-73; Minister for Lands 1973-76, of Transport and Power 1976-77. *Address:* Dial Eireann, Leinster House, Kildare Street, Dublin 2, Ireland.

FITZSIMMONS, Frank Edward; American trade union official; b. 7 April 1908, Jeannette, Pa.; s. of Frank and Ida May (Stahley) Fitzsimmons; m. Mary Patricia Fitzsimmons 1952; one s. one d.; bus driver, Detroit Motor Co. 1926; truck driver Nat. Transit Corpn. and 3-C Highway Co.; joined Teamsters' Union 1934; Business Agent for local union branch 1937, Vice-Pres. 1940, Sec.-Treas. 1943; mem. Exec. Bd. and Int. Vice-Pres. Teamsters' Union 1961, Gen. Vice-Pres. 1966-71, Gen. Pres. 1971-; founded Alliance for Labour Action 1969. *Leisure interests:* golf, poker, watching baseball. *Address:* International Brotherhood of Teamsters, Chauffeurs, Warehousemen and Helpers of America, 25 Louisiana Avenue, N.W., Washington, D.C. 20001, U.S.A.

FJELDSTAD, Öivin; Norwegian violinist and conductor; b. 2 May 1903; ed. Oslo Conservatoire under Gustav Fr. Lange, Leipzig Conservatoire under Walther Davisson, and Berlin Conservatoire under Clemens Kraus. Debut as violinist 1921; violinist, Oslo Philharmonic Orchestra 1923-45; debut as conductor with Oslo Philharmonic Orchestra 1931; Chief Conductor, Norwegian State Broadcasting 1945-62, Norwegian State Opera Orchestra 1958-59; Musical Dir. and Chief Conductor Oslo Philharmonic Orchestra 1962-69; has appeared as guest conductor in Austria, Belgium, British Columbia, Czechoslovakia, Denmark, Finland, France, Federal Republic of Germany, U.K., Greece, Israel, Italy, Netherlands, Poland, Sweden, Turkey, U.K., U.S.A., U.S.S.R. and Yugoslavia; Knight, Order of St. Olav, Order of Finland's Lion, Ordre de la

Couronne, Order Orange-Nassau, Golden Honour Medal of Norwegian King, Honour Medal of Norwegian Musicians, Arnold Schoenberg Diploma (Salzburg) 1952. *Address:* Damfaret 59, Bryn-Oslo 6, Norway.

FLAHIFF, H. E. Cardinal George Bernard; Canadian ecclesiastic; b. 26 Oct. 1905, Paris, Ontario; s. of John J. Flahiff and Eleanor Fleming. Ordained 1930; Archbishop of Winnipeg 1961-; cr. Cardinal 1969. *Address:* Chancery Office, 50 Stafford Street, Winnipeg, Manitoba R3M 2V7, Canada. *Telephone:* 204-474-2361.

FLAMAND, Paul Henri; French publisher; b. 25 Jan. 1909; s. of Henri Flamand and Marie Dufour; m. Marguerite Olivier 1937; two s. three d.; ed. Collège Saint-Paul, Angoulême; Founder and Dir. of Editions du Seuil, Paris 1938-; mem. Conseil de développement culturel 1971-73, Conseil supérieur des lettres 1974-. *Address:* Editions du Seuil, 27 rue Jacob, 75006 Paris, France.

FLAMSON, Richard J., III; American banker; b. 2 Feb. 1929, Los Angeles, Calif.; s. of Richard J. and Mildred Jones Flamson; m. Arden Black 1951; three s. one d.; ed. Claremont Men's Coll., Univ. of Washington; joined Security Pacific Nat. Bank 1955, Vice-Pres. Admin., Instalment Loan Div. 1962, Nat. Banking Dept. 1965, Int. Banking Dept 1968, Sr. Vice-Pres. 1969, Exec. Vice-Pres. 1970, Vice-Chair. of Bd. 1973-; Pres. Security Pacific Corpn. 1973-, Pres. and Chief Exec. Security Pacific Bank 1978-; Dir., Officer several subsidiary cos. *Leisure interests:* boating, tennis, golf, reading. *Address:* Security Pacific National Bank, 333 South Hope Street, Los Angeles, Calif 90017 (Office); 2000 Kewamee Drive, Corona del Mar, Calif. 92625, U.S.A. (Home). *Telephone:* (213) 613-6526 (Office); (714) 673-8593 (Home).

FLAVIN, Joseph Bernard, M.S.; American business executive; b. 16 Oct. 1928, St. Louis, Mo.; s. of Joseph B. Flavin and Mary Toomey; m. Melisande Barillon; one s. one d.; ed. Univ. of Massachusetts, Columbia Univ. Graduate School of Business; man. positions, IBM World Trade Corpn. 1953-65, Controller 1965-67; with Xerox Corpn. 1967-75, Vice-Pres. and Man. Control Dept. 1967-68, Group Vice-Pres. and Man. Corporate Services 1968-69, Senior Vice-Pres. Finance and Planning 1969-70, Exec. Vice-Pres. 1970-72, Exec. Vice-Pres. and Pres. Int. Operations 1972-75; Chair., Pres. and Chief Exec. Officer, The Singer Co. 1975-. *Leisure interests:* skiing, golf. *Address:* 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A. *Telephone:* (212) 581-4800.

FLECKENSTEIN, Günther; German theatre director; b. 13 Jan. 1925, Mainz; m. Heike Haase 1965; two d.; ed. Realgymnasium, Mainz, and Univ. Mainz; producer of plays and operas, Theater Ulm 1954-55, theatre in Essen/Gelsenkirchen 1955-57; Chief Producer of Plays, theatre in Münster 1957-59; Producer and Dir. Landestheater, Hanover 1959-65; Dir. Deutsches Theater, Göttingen 1966-; Guest Dir. for theatres in Berlin, Hamburg and Stuttgart; Guest Dir. TV in Munich and Stuttgart; has dramatized for stage and TV Der Grosstyrann und das Gericht (Bergengruen); stage production in German of Les jeux sont faits (Sartre), Im Räderwerk (Sartre), Ehen werden im Himmel geschlossen; productions for children's and young people's theatre. *Address:* Deutsches Theater in Göttingen-Geismar, Meininger Weg 8, Federal Republic of Germany (Home). *Telephone:* 5-94-71 (Home).

FLEGEL, Manfred; German economist and politician; b. 3 June 1927, Magdeburg; ed. Univs. of Rostock and Berlin; mem. and Sec. Cen. Cttee., Nat.-Demokratische Partei Deutschlands 1948-; mem. Volkskammer 1950-; mem. Econ. Cttee. 1950-54, Chair. Finance Cttee. 1954-67; Deputy Chair. Council of Ministers of G.D.R. 1961–, Minister for Materials Supply 1971-74; mem. Presidium Nat. Council of Nat. Front 1971-; Chair. State Treaty Comm. 1974-; Vaterländischer Verdienstorden in Bronze; Ernst-Moritz-Arndt Medaille. *Address:* Ministerrat, Berlin, German Democratic Republic.

FLEISCHMAN, Théo; Belgian writer; b. 1893, Antwerp; m. Jeanne Boutembourg 1930; one s. one d.; on editorial staff of La Gazette, Brussels 1920; Dir. of Talks, Radio-Belgique 1924; Dir. of Talks in French, Belgian Nat. Broadcasting Inst. (I.N.R.) 1930-37; Dir.-Gen. 1937; Dir.-Gen. of Belgian Nat. Broadcasting in London 1942; Director-General of Broadcasting (French) I.N.R. 1945-53; Hon. Admin. Dir. of the Musical Chapel of Queen Elizabeth of Belgium; Président d'Honneur Université Radiophonique et télévisuelle Internationale; Corresp. mem. Inst. de France; Commdr. Order of the Crown, Chevalier Order of Léopold, Officer of Léopold II, Croix de guerre avec palme, Commdr. Légion d'honneur, Commdr. Order of Polonia Restituta, etc. *Publications:* Ce vieil enfant (poems) 1922, Archipel (poems) 1923, L'aventure (1914-18) 1924, Anthologie des poètes de l'Yser 1925, Ici Londres—le message du jour 1945, Un curieux récit de Waterloo, 1946, Icare 1947, Le roi de Gand, Napoléon au bivouac, Un qui revient de loin, Bruxelles pendant la bataille de Waterloo, Tapin tambour de Bonaparte en Egypte, Le peuple aux yeux clairs, En écoutant parler Napoléon, En écoutant parler les grognards de Napoléon, Napoléon et la musique, L'épopée impériale racontée par la Grande Armée, L'évadé de Sainte-Hélène, Histoires singulières; has written many radio features. *Leisure interests:* literature, history. *Address:* 43 Avenue Hamoir, 1180 Brussels (Uccle), Belgium. *Telephone:* 374-09-72.

FLEISCHMANN, Rudolf, DR.RER.NAT.; German physicist; b. 1 May 1903, Erlangen; s. of Dr. Albert and Franziska Fleischmann (née Kiefl); m. Marianne Müller 1963; ed. Univs. of Erlangen, Munich; Inst. of Physics, Göttingen 1930-32, Heidelberg 1932-34; Kaiser Wilhelm Physical Inst., Heidelberg 1934-41; Extraordinary Prof. of Physics, Univ. of Strasbourg 1941-44; Prof. of Physics, Univ. of Hamburg, and Dir. of State Physical Inst. 1947-53; Prof. of Physics, Head of Physics Dept., Univ. of Erlangen 1953-69, Emer. 1970-. *Address:* 9 Langemarckpl., 852 Erlangen, Federal Republic of Germany. *Telephone:* 09131 26221.

FLEMING, Sir Charles (Alexander), K.B.E., F.R.S., F.R.S.N.Z., D.SC.; New Zealand naturalist, paleontologist and conservationist; b. 9 Sept. 1916, Auckland; s. of George Fleming and Winifred Hardy; m. Margaret Alison Chambers 1941; three d.; ed. Kings Coll., Auckland and Auckland Univ. Coll.; joined N.Z. Geological Survey as Asst. Geologist 1940, becoming Paleontologist and later Chief Paleontologist (Dept. of Scientific and Industrial Research), retd. 1977; Hon. Lecturer in Geology, Victoria Univ. of Wellington; published research on geological and biological topics, mainly on history of life in N.Z.; has taken part in expeditions to subantarctic islands; Pres. Ornithological Soc. of N.Z. 1948, Royal Soc. N.Z. 1962-66, Australian and N.Z. Assen. for Advancement of Science 1969; mem. Nat. Parks Authority, N.Z., Nat. Museum of N.Z. Council; Foreign mem. American Philosophical Soc.; Hon. mem. Geological Soc. of London; Corresp. Fellow, American Ornithologists Union; William Smith Lecturer 1968; Macleay Memorial Lecturer, Linnean Soc., N.S.W. 1976; Hector and Hutton Medals of Royal Soc. of N.Z., Walter Burfitt Medal of Royal Soc. of New South Wales, ANZAAS Medal of Australian and N.Z. Assen. for Advancement of Science. *Publications:* Checklist of New Zealand Birds (editor) 1953, Hochstetter's Geology of new Zealand (translator and editor) 1959, Stratigraphic Lexicon: New Zealand (editor) 1959, Marwick's Illustrations of New Zealand Shells 1966, The Geological History of New Zealand and its Life 1979, and over 200 research papers on N.Z. geology, paleontology, zoology and biogeography. *Leisure interests:* New Zealand cicadas, recorded music, fishing for New Zealand whitebait. *Address:* 'Balivean', 42 Wadestown Road, Wellington, New Zealand. *Telephone:* 737288.

FLEMING, Hon. Donald Methuen, P.C., Q.C., B.A., LL.B., D.C.L., LL.D.; Canadian barrister; b. 23 May 1905, Exeter, Ont.; s. of Louis Charles Fleming and Maud Margaret Wright Fleming; m. Alice Mildred Watson 1933; two s. one d.; ed. Univ. of Toronto and Osgoode Hall Law School; called to Bar 1928; created King's Counsel 1944; M.P. for Toronto-Eglinton 1945-63; Minister of Finance 1957-62; Gov. Int. Bank, Monetary Fund, Int. Finance Corpn., Int. Devt. Agency 1957-63; Minister of Justice and Attorney-Gen. of Canada 1962-63; Man. Dir. Bank of Nova Scotia Trust Co. (Bahamas) Ltd. and its subsidiaries; Dir. Gore Mutual Insurance Co., M. & G. (Cayman) Ltd., and many other cos.; Gen. Counsel to Bank of Nova Scotia in Bahamas and Caribbean. *Leisure interest:* sports. *Address:* P.O. Box N3016, Nassau, Bahamas. *Telephone:* 21025 (Office); 34616 (Home).

FLEMING, Robben Wright, LL.D.; American university administrator; b. 18 Dec. 1916, U.S.A.; s. of Edmund P. and Jeanette Wheeler Fleming; m. Aldyth L. Quixley; one s. two d.; ed. Beloit Coll., Wis. and Univ. of Wisconsin; Attorney, Securities and Exchange Comm., Washington, D.C. 1941-42; Mediator, Nat. War Labor Board 1942; Dir. Industrial Relations Center, Univ. of Wis. 1947-52, Prof. of Law, Univ. of Wis. 1958-67, Chancellor 1964-67; Dir. Inst. of Labor and Industrial Relations, Univ. of Illinois 1952-58; Prof. of Law, Pres. Univ. of Mich., Ann Arbor 1968-79; Pres. Corpn. for Public Broadcasting 1979-; nineteen hon. degrees. *Publications:* The Politics of Wage Price Decisions (with M. Edelman) 1965, The Labor Arbitration Process 1965. *Leisure interests:* sports, reading. *Address:* Corporation for Public Broadcasting, 1111 16th Street, N.W., Washington D.C. 20036, U.S.A. *Telephone:* 293-6160.

FLEMING, Rt. Rev. William Launcelot Scott, K.C.V.O., M.S., D.D., F.R.S.E.; British ecclesiastic and explorer; b. 7 Aug. 1906; s. of late Robert Alexander Fleming; m. Jane Agutter 1965; ed. Rugby School, Trinity Hall and Westcott House, Cambridge, and Yale Univ.; ordained deacon 1933, priest 1934; Fellow and Chaplain

Trinity Hall 1933-49, Dean 1937-49; expeditions to Iceland and Spitzbergen 1932-33; Chaplain and Geologist, British Graham Land Expedition 1934-37; Chaplain, R.N.V.R. 1940-44; Dir. Service Ordination Candidates 1944-46; Dir. Scott Polar Research Inst., Cambridge 1946-49; Bishop of Portsmouth 1949-59; Bishop of Norwich 1959-71; Dean of Windsor, Domestic Chaplain to H.M. Queen Elizabeth II, Register of the Order of the Garter 1971-76; Chair. Church of England Youth Council 1950-61; Chair. Archbishops' Advisers on Needs and Resources of the Church of England 1963-76; Vice-Chair. Parl. Group for World Govt. 1970-76; mem. Royal Comm. on Environmental Pollution 1970-73; Pres. Young Explorers Trust 1976-78; Hon. Chaplain R.N.V.R. (now R.N.R.) 1950; Hon. Fellow, Trinity Hall, Cambridge 1956; Hon. Vice-Pres. Royal Geographical Soc. 1961; Hon. D.C.L. (East Anglia) 1970. *Address:* Tithe Barn, Poyntington, Dorset, DT9 4LF, England. *Telephone:* Corton Denham 479.

FLEMMING, Arthur Sherwood, A.M., LL.B.; American educator and government official; b. 12 June 1905; m. Bernice Virginia Moler 1934; five c.; ed. Ohio Wesleyan, American and George Washington Univs.; Instructor, American Univ. 1927-30, Dir. School of Public Affairs 1934-39, Exec. Officer 1938-39; mem. U.S. Civil Service Comm. 1939-48, Int. Civil Service Advisory Bd. 1950-64, Nat. Advisory Cttee. of Peace Corps 1961-; Pres. Ohio Wesleyan Univ. 1948-58 (on leave 1951-57); Asst. to Dir. Office of Defense Mobilisation 1951-53, Dir. 1953-57; statutory mem. Nat. Security Council, participating by invitation of the Pres. of the U.S. in Cabinet meetings 1953-57; Sec. of Health, Educ. and Welfare 1958-61; Pres. Univ. of Oregon 1961-68; Pres. Macalester Coll., St. Paul 1968-71; Chair. Bd. of Trustees, Citizenship Clearing House 1959-62; Pres. Nat. Council of Churches in America 1967-70; Fed. Commr. on Ageing; mem. U.S. Comm. on Civil Rights, Chair. 1974-; numerous hon. degrees; Republican. *Address:* Commission on Civil Rights, 1121 Vermont Avenue, N.W., Washington, D.C. 20425, U.S.A.

FLEROV, Georgiy Nikolayevich; Soviet physicist; b. 2 March 1913, Rostov-on-Don; ed. Leningrad Industrial Inst.; scientific work, Leningrad Inst. of Physics and Technology 1938, later Chief Lab. of Multicharged Ions, Kurchatov Inst. of Atomic Energy, Moscow; Dir. Nuclear Reaction Lab., Joint Inst. for Nuclear Research, Dubna 1960-; mem. CPSU 1954-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-68, Academician 1968-; Hero of Socialist Labour, State Prize (three times), Lenin Prize 1967, etc. *Publications:* The Absorption of Slow Neutrons by Cadmium and Mercury 1939, The Spontaneous Fission of Uranium (with K. A. Petrzhak) 1940, Experiments on the Fission of Uranium (with L. I. Russinov) 1940, On the Proton Decay of Radioactive Nuclei (with others) 1964, Synthesis of transuranic elements (with others): element 102 (1957-66), 103 1966, 104 1964, 105 1970, 106 1974, 107 1977, Elements of the Second Hundred (with I. Zvara) 1971, Experiments on the Synthesis of and Search for Transuranic Elements at the JINR 1971, Superheavy elements 1977. *Address:* Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research, Dubna, Moscow Region, U.S.S.R.

FLETCHER, Douglas Valmore, C.B.E.; Jamaican lawyer and diplomatist; b. 22 May 1917, Kingston; s. of Reginald H. Fletcher and Edith Simpson; m. Hazel Rose 1940; two s. three d.; ed. Jamaica Coll.; Attorney-at-Law 1938; mem. Legis. Council 1953-62; Minister without Portfolio and Leader of Govt. Business 1959-62; Senator and Leader of Opposition 1962-67; Amb. to U.S.A. 1972-75; Dir. of various insurance, banking and mortgage financing companies. *Leisure interest:* golf. *Address:* 21 East Street, Kingston, Jamaica. *Telephone:* 922-5860.

FLETCHER, Harvey, B.S., PH.D.; American physicist; b. 11 Sept. 1884; s. of Charles E. and Elizabeth Meller Fletcher; m. 1st Lorena Chipman 1908; five s.; m. 2nd Fern Eyring 1970; ed. Brigham Young Univ., Utah, and Univ. of Chicago; Head of Dept. of Physics, Brigham Young Univ., Utah 1911-16; Dir. Research, Brigham Young Univ. 1952-, Dean, Coll. Physics and Engineering Sciences 1953-60; on eng. staff of Research Dept. of Bell Telephone Labs. 1916-49, Dir. Physical Research 1933-49; Prof. of Electrical Eng. Columbia 1949-52; Pres. Utah Acad. of Science 1915-16; Fellow, American Physical Soc. (Pres. 1945) and Acoustical Soc. of America, co-organizer and First Pres. 1929; mem. Nat. Acad. of Sciences 1933; Fellow, A.A.A.S. (Chair. Section B.37); Pres. American Fed. of Orgs. for the Hard of Hearing 1929-30; Hon. Sc.D. (Columbia and Utah Univs., Kenyon Coll., Stevens Inst. of Technology, Brigham Young Univ. and Case School of Applied Science). *Publications:* Speech and Hearing 1929, Speech and Hearing in Communications 1953. *Leisure interest:* fishing. *Address:* 1615 N. Willow Lane, Provo, Utah 84601, U.S.A.

FLETCHER, James Chipman, PH.D.; American scientific administrator; b. 5 June 1919, Millburn, N.J.; m. Fay Lee; one s. three d.; ed. Columbia Univ. and California Inst. of Technology; Research physicist, U.S. Navy Bureau of Ordnance 1940; Special Research Assoc., Cruft Lab. of Harvard Univ. 1941; Teaching Fellow, Princeton Univ. 1942, later Instructor and Research Physicist; Teaching Fellow, Calif. Inst. of Technology 1945; instructor, Univ. of Calif., Los Angeles 1948; Dir. Theory and Analysis Lab., Electronics Div., Hughes Aircraft Co. 1948; Assoc. Dir. Ramo Woolridge Corpn. 1954, subsequently Dir. of Electronics, Guided Missile Div. (later became Space Technology Labs.); organized Space Electronics Corpn. (with F. W. Lehan) 1958, subsequently Pres. Space Gen. Corpn. (following merger of Space Electronics Corpn. and Aerojets Gen. Corpn.) 1961, Chair. of Board until 1964; Pres. Univ. of Utah 1964-71; Admin. NASA 1971-77; consultant engineer, McLean, Va. 1977-. *Address:* 7721 Falstaff Road, McLean, Va. 22101, U.S.A. (Home).

FLETCHER-COOKE, Sir John, Kt., C.M.G., M.A.; British colonial official (retd.) and writer; b. 8 Aug. 1911, Burnham, Bucks; s. of the late Charles Arthur Fletcher-Cooke and Gwendolen May (née Bradford); m. 1st 1949 (dissolved), two s. one d.; m. 2nd Marie-Louise, Vicomtesse de la Barre 1971; ed. Malvern Coll., Paris and Oxford Univs.; Colonial Office, Private Sec. to Perm. Under-Sec. 1934-37; Malayan Civil Service 1937-42; Served in R.A.F. and taken P.O.W. by Japanese 1942-46; Sec. to Constitutional Comm. Malta 1946; Under-Sec. to Palestine Govt. 1946-49; Counsellor, U.K. Del. to UN 1949-51; Colonial Sec., Cyprus 1951-55; Minister for Constitutional Affairs, Tanganyika 1956-59; Chief Sec. to Govt. 1959-60; Deputy Gov. of Tanganyika 1960-61; M.P. (Southampton Test) Oct 1964-66; Commonwealth Parliamentary Assn. Del. to Nigeria 1965; Visiting Prof. Colorado Univ. 1961-62, 1966, 1973, 1974; mem. Kenya Constituencies Delimitation Comm. 1962; Adviser to Ottoman Bank 1962-64; mem. Exec. Cttee. Overseas Employers' Fed. 1963-65; Vice-Chair. Int. team to review structure and org. of FAO, Rome 1967; Dir. Programmes in Diplomacy, Carnegie Endowment, New York 1967-68; Official Mission for British Govt. to New Hebrides 1969; Chair. various Civil Service Selection Bds. 1971-. *Publications:* Parliament as an Export (co-author) 1966, The Emperor's Guest 1971; numerous articles on the United Nations, Commonwealth, Middle East and African affairs; short stories. *Address:* c/o Lloyds Bank, 3 Broad Street Place, London, E.C.2, England.

FLINDT, Flemming Ole; Danish ballet dancer and choreographer; b. 30 Sept. 1936; ed. Royal Danish Ballet School; ballet dancer 1955-; solo dancer Royal Theatre, Copenhagen 1957-60; Danseur Etoile Théâtre Nat. de l'Opéra, Paris 1960-; Dir. Royal Danish Ballet 1965-; guest artist Royal Ballet Covent Garden 1963; guest choreographer Metropolitan Opera House, New York and la Scala, Milan 1965; Grand Prix Italia (La Leçon) 1963. *Choreography:* La leçon, (Ionesco) 1963, Jeune homme à marier, Ionesco 1964, The Three Musketeers 1966, The Miraculous Mandarin 1966, The Triumph of Death, Dreamland 1974; choreography and libretto: Felix Luna 1973. *Address:* Bülowsvej 26, Copenhagen, Denmark. *Telephone:* 144665.

FLITNER, Andreas, DR. PHIL., M.A.; German educationist; b. 28 Sept. 1922, Jena; s. of Wilhelm Flitner and Elisabeth Czapski; m. Sonia Christ 1950; one s. six d.; ed. Gymnasium "Christianeum", Hamburg, and Univs. of Hamburg, Heidelberg, Basel and Oxford; Lecturer in German, Univ. of Cambridge 1950-51; Tutor, Leibniz-Kolleg, Tübingen and High School Teacher 1951-54; Dozent in Educ., Tübingen 1955; Extraordinary Prof. of Education, Erlangen 1956-58; Prof. of Education, Univ. of Tübingen 1958-; Visiting Prof. Evanston, Ill. 1967, London 1976. *Publications:* Erasmus im Urteil seiner Nachwelt 1952, Die politische Erziehung in Deutschland—Geschichte und Probleme 1957, Glaubensfragen im Jugendalter 1961, Wege zur pädagogischen Anthropologie 1963, Die Jugend und die überlieferten Erziehungsmächte (with G. Bittner) 1965, Soziologische Jugendforschung — Darstellung und Kritik aus pädagogischer Sicht 1963, Goethe an W. von Humboldt, Goethe—Jb. 1965, Der Streit um die Vorschulerziehung 1967, Brennpunkte gegenwärtiger Pädagogik, Studien zur Schul-und Sozialerziehung 1969, Das Basler Winckelmann-Portrait 1971, Spielen-Lernen, Praxis und Deutung des Kinderspiels 1972, Missratener Fortschritt, Pädagogische Anmerkungen zur Bildungspolitik 1977; Editor Erasmus, Briefe 1956, J. A. Comenius, Grosse Didaktik 1954, Wilhelm v. Humboldt, works in 5 vols. (with K. Giel) 1960-79, Einführung in pädagogisches Sehen und Denken (with H. Scheuerl) 1967, Erziehung in Wissenschaft und Praxis (28 vols.) 1967-, Das Kinderspiel, Texte 1973, Der Numerus clausus und seine Folgen 1976, Abitur-Normen gefährden die Schule (with D. Lenzen) 1977; Co-Ed. Anthropologie und Erziehung 1959-, Sozialpädagogik (10 vols.) 1968-, Zeitschrift für Pädagogik 1962- (Chair. 1969-). *Leisure interest:* modern art. *Address:* Im Rotbad 43, 74 Tübingen, Federal Republic of Germany. *Telephone:* 292407.

FLORIN, Peter; German diplomatist; b. 2 Oct. 1921, Cologne; s. of Wilhelm Florin; m.; three c.; ed. Karl-Liebknecht-Schule and Mendeleyev Coll. of Chemistry, Moscow; Asst., later Ed., Nat. Cttee. for a Free Germany weekly magazine, Moscow; mem. KPD (Communist Party) 1945; Vice-Pres. Wittenberg dist. 1945; Ed.-in-Chief, Halle 1946-48; Head of Dept., Ministry of Foreign Affairs, G.D.R. 1949-52; Head of Foreign Affairs and Int. Relations Dept., Cen. Cttee. SED 1953-66, cand. mem. Cen. Cttee. 1954-58, mem. Cen. Cttee. 1958-; mem. Volkskammer 1953-; Amb. to Czechoslovakia 1967-69; State Sec., First Deputy Minister of Foreign Affairs 1969-73; Perm. Rep. to UN Sept. 1973-; Order of the Red Star (U.S.S.R.), Vaterländischer Verdienstorden in Silver, in Gold (twice), and other decorations. *Address:* Permanent Mission of German Democratic Republic to United Nations, 58 Park Avenue, New York, N.Y. 10016, U.S.A.

FLORIT, H.E. Cardinal Ermenegildo; Italian ecclesiastic; b. 5 July 1901, Fagagna, Udine; ed. Seminario Diocesano di Udine, Pontificia Univ. Lateranense and Univ. Gregoriana; ordained Priest 1925; Chaplain at Palmanova 1927-29; Canon of San Marco 1933; Prof. of Theology, Pontificia Univ. Lateranense 1929-51, Pro-Rector 1951-54; Pro-Rector Pontificium Institutum Utriusque Juris 1951-54; Domestic Prelate to His Holiness 1950-; Coadjutor Archbishop of Florence 1954-62, Archbishop 1962-77; created Cardinal 1965; mem. Pontifical Comm., on Bishops and Diocesan Org. for Ecumenical Council 1960-, for Revision of Code of Canon Law 1965-; mem. Catholic Biblical Assen. of America; founded magazine Lateranum and published various books on biblical culture, in particular Il Metodo della Storia delle Forme, Ispirazione biblica. *Address:* Via Gino Capponi 46, 50121 Florence, Italy. *Telephone:* 57-18-38.

FLORY, Paul John, PH.D.; American professor of chemistry; b. 19 June 1910, Sterling Ill.; m. Emily C. Tabor 1936; one s. two d.; ed. Manchester Coll., Ind., Ohio State Univ.; Research Chemist E. I. Dupont de Nemours & Co. 1934-38; Research Assoc., Univ. of Cincinnati 1938-40; Research Chemist, Esso Lab. 1940-43; Section Head, Research Lab., Goodyear Tire and Rubber Co. 1943-48; Prof. Cornell Univ. 1948-56; Exec. Dir. of Research, Mellon Inst. 1956-61; Prof. of Chem., Stanford Univ. 1961-76; mem. Nat. Acad. of Sciences, American Chemical Soc., American Physical Soc., American Acad. of Arts and Sciences, Nat. Research Council; Fellow A.A.A.S.; Hon. Ph.D. (Manchester Coll., Ind., Polytechnic Inst., Milan, Weizmann Inst. of Science, Israel), Hon. Sc.D. (Manchester, Ohio State Univ.); Nobel Prize for Chem. for work in molecular science 1974, Nat. Medal of Science 1974 and many other prizes. *Address:* 210 Golden Oak Drive, Portola Valley, Calif. 94025, U.S.A. (Home).

FLOWERS, Baron (Life Peer) cr. 1979, of Queensgate in the City of Westminster; **Brian Hilton Flowers;** M.A., D.SC., F.INST.P., F.R.S.; British physicist; b. 13 Sept. 1924, Blackburn, Lancs.; s. of late Rev. Harold J. Flowers and of Marion V. (née Hilton) Flowers; m. Mary Frances Behrens 1951; two step s.; ed. Gonville and Caius Coll., Cambridge, and Univ. of Birmingham; Anglo-Canadian Atomic Energy Mission (Tube Alloys) at Montreal and Chalk River, Canada 1944; Scientific Officer, Nuclear Physics Div., Atomic Energy Research Establishment, Harwell 1946; transferred to Theoretical Physics Div. 1948, Head of Theoretical physics Div. 1952, Chief Research Scientist 1958; Prof. Theoretical Physics, Manchester Univ. 1958-61, Langworthy Prof. of Physics 1961-72; Pres. Inst. of Physics 1972-74, European Science Foundation 1974-, Nat. Soc. for Clean Air 1977-79; Fellow, Physical Soc. 1956, mem. Council 1960, 1961; mem. Council Inst. of Physics 1961, Vice-Pres. 1962-66; mem. Advisory Council on Scientific Policy 1962-64, Council on Scientific Policy 1965-67, Advisory Bd. for the Research Councils 1972-73; Del. Pugwash Conf. Cambridge 1962, Dubrovnik 1963, Karlovy Vary 1964, Venice 1965, Oxford 1972; Chair. Steering Cttee. of the Nat. Physical Lab. 1965-68; Chair. Computer Bd. for Univs. and Research Councils 1966-70, Science Research Council 1967-73; part-time mem. U.K. Atomic Energy Authority 1976-; Rector, Imperial Coll., Univ. of London 1973-; Chair. Royal Comm. on Environmental Pollution 1973-76, Standing Comm. on Energy and the Environment 1978-; Gov. Weizmann Inst. 1969-; mem. Advisory Council, Science Policy Foundation 1975-, U.K. Energy Comm.; Hon. D.Sc. (Sussex) 1968, (Wales) 1972, (Leicester) 1973, (Manchester) 1973, (Liverpool) 1974; Hon. Fellow, (Gonville and Caius Coll., Cambridge) 1974, Chevalier Légion d'honneur 1975. *Publications:* Editor Advances in Physics 1959, 1963, Cambridge Monographs in Physics 1961 and numerous scientific papers in the journals of learned societies on nuclear reactions and the structure of atomic nuclei, on science policy and on energy and the environment. *Leisure interests:* music, painting, walking. *Address:* Imperial College, London, SW7 2AZ, England. *Telephone:* 01-589 5111.

FOBES, John Edwin; American diplomatist and international official; b. 16 March 1918, Chicago, Ill.; s. of Wilfred Franklin Fobes and Mabel Skogsberg; m. Hazel Ward Weaver 1941; one s. one d.; ed. Northwestern Univ., Fletcher School of Law and Diplomacy and School for Advanced Int. Studies, Johns Hopkins Univ. U.S. Army Air Force 1942-45; UN Secretariat, London and New York 1945-46; Admin. Analyst, U.S. Bureau of the Budget 1947-48; Asst. Dir. Technical Assistance, U.S. Marshall Plan, Washington 1948-51; Dep. Dir. Org. and Planning, Mutual Security Agency, Washington 1951-52; Adviser, U.S. Del. to NATO and European Regional Orgs., Paris 1952-55; Dir. Office of Int. Admin., Dept. of State 1955-59; (elected) mem. UN Advisory Cttee. on Admin. and Budgetary Questions 1955-60; Sr. Adviser, U.S. Del. to the 10th-14th sessions of UN Gen. Assembly; Special Adviser to Asst. Sec. of State, Washington 1959-60; Program Officer and Deputy Dir. U.S. Agency for Int. Devt. Mission to India 1960-64; Asst. Dir.-Gen. (Admin.), UNESCO, Paris 1964-70, Deputy Dir.-Gen. 1971-77, Mem.-at-Large, U.S. Nat. Comm. for UNESCO; Pres. American Library in Paris 1968-70; Visiting Scholar Indiana and Harvard Univs. 1970, D. H. Bucknell Univ. 1973; Visiting Scholar and Adviser on Int. Studies Duke Univ. 1978-. *Leisure interests:* community service, walking, reading, writing. *Address:* 739 Gimghoul Road, Chapel Hill, North Carolina 27514, U.S.A. *Telephone:* (919) 929-5645.

FOCCART, Jacques; French civil servant; b. 31 Aug. 1913; ed. Collège de l'Immaculée Conception, Laval; exporter; Adviser, Rassemblement du Peuple Français (RPF) Group, Council of the Repub. 1952-58; Sec.-Gen. RPF 1954; Tech. Adviser, Gen. de Gaulle's office (Pres. of the Council) 1958-59; Tech. Adviser in Secretariat-Gen. of Presidency of Repub. 1959; Sec.-Gen. Presidency for French Community and African and Malagasy Affairs 1960-69, 1969-74; Dir. Société R. Gonfreville 1975-; Commdr., Légion d'honneur, Croix de guerre 1939-45, Rosette de la Résistance. *Address:* Villa Charlotte, 95 Luzarches, France.

FOCK, Jenö; Hungarian politician; b. 17 May 1916, Budapest. Mechanic; Nat. Youth Cttee. CP 1937, Dep. Minister, Metallurgy and Eng. 1951-54; Sec. Nat. Council of Trade Unions 1955-57; Sec. Cen. Cttee. Hungarian Socialist Workers' party 1957-61, mem. Political Cttee. 1957-; Deputy Prime Minister 1961-67, Prime Minister 1967-75; Hero of Socialist Labour 1975. *Leisure interests:* literature, fine arts, watching football, playing tennis. *Address:* Central Committee of the Hungarian Socialist Workers' Party, Széchenyi rakpart 19, Budapest V, Hungary. *Telephone:* 111-400.

FOCKE, Katharina, DR.PHIL.; German journalist and politician; b. 1922, Bonn; d. of Ernest Friedlander and Dr. Franziska (née Schulz) Friedlander; m. Dr. Ernst Günter Focke 1954 (died 1961); ed. Hamburg Univ.; journalist 1946-54; joined Social Democratic Party 1964; mem. North Rhine Westphalia Diet 1966; mem. Bundestag 1969-; Parl. State Sec. of Fed. Chancellor 1969; Fed. Minister for Youth, Family Affairs and Health 1972-76; Social Democrat. *Publications:* Europa über den Nationen 1962, Europäer in Frankreich 1965. *Address:* 5 Köln, 51, Pferdmengesstrasse 34, Federal Republic of Germany. *Telephone:* 0221-38-80-85.

FOGG, Gordon Elliott, B.SC., PH.D., SC.D., LL.D., F.I.BIOL., F.R.S.; British botanist; b. 26 April 1919, Langar, Notts.; s. of Rev. Leslie Charles Fogg and Doris Mary Fogg (née Elliott); m. Elizabeth Beryl Llechid Jones 1945; one s. one d.; ed. Dulwich Coll., Queen Mary Coll., Univ. of London, and St. John's Coll., Cambridge. Asst. for Seaweed Survey of Britain, Marine Biological Assen. 1942; Plant Physiologist, Pest Control Ltd. 1943-45; Asst. Lecturer, Dept. of Botany, Univ. Coll. London 1945-47, Lecturer 1947-53, Reader 1953-60; Prof. of Botany in Univ. of London at Westfield Coll. 1960-71; Prof. of Marine Biology, Univ. Coll. of N. Wales 1971-; Rockefeller Fellow 1954; Hon. Sec. Inst. of Biology 1953-56, Vice-Pres. 1961-62, Pres. 1976-; Botanical Sec., Soc. for Experimental Biology 1957-60; Pres. British Phycological Soc. 1962-63, Int. Phycological Soc. 1964; Joint Hon. Sec. Xth Int. Botanical Congress, Edinburgh 1964; Visiting Research Worker, British Antarctic Survey 1966, 1974; Gen. Sec. British Assen. 1967-72; Royal Soc./Leverhulme Visiting Prof. Univ. of Kerala 1970; Chair. of Council, Freshwater Biol. Assen. 1974-; Trustee, British Museum (Natural History) 1976-. *Publications:* the Metabolism of Algae 1953, The Growth of Plants 1963, Algal Cultures and Phytoplankton Ecology 1965, Photosynthesis 1968, The Blue-Green Algae (with W. D. P. Stewart, P. Fay and A.E. Walsby) 1973. *Leisure interests:* water-colour painting, walking, listening to music, photography. *Address:* Marine Science Laboratories, Menai Bridge, Anglesey, Gwynedd, LL59 5EH, Wales. *Telephone:* 0248712-641.

FOGH-ANDERSEN, Poul, M.D., DR.MED.; Danish plastic surgeon; b. 7 Dec. 1913, Copenhagen; s. of late Vagn Fogh-Andersen and Lili Fogh-Andersen (née Nielsen); m. Birgit Duelund 1943; one s.

two d.; ed. St. Jörgen's High School and Copenhagen Univ.; Scientific Asst., Univ. Inst. of Human Genetics, Copenhagen 1939-40; Asst., various Copenhagen hospitals 1941-45; Asst. Surgeon, Copenhagen Municipal Hosp. 1946-49; First Asst. surgeon, Univ. Hosp. 1950-53, Deaconess Hosp. 1954-55; Chief Surgeon, Dept. of Surgery A (Plastic Surgery), Deaconess Hosp. Copenhagen 1956-; Consultant Plastic Surgeon, Univ. Hosp. 1956-62; Plastic Surgeon, Dronning Louise's Children's Hosp. Copenhagen 1959-71; Consultant Surgeon, State Inst. for Defective Speech 1956-; Co-founder and Pres. Danish Soc. of Plastic and Reconstructive Surgery 1964-69; Pres. Org. Danish Plastic Surgeons 1966-; Pres. Scandinavian Assen. of Plastic Surgeons 1966-68; Corresp. mem. American Soc. of Plastic and Reconstructive Surgery 1955-, Swedish Assen. of Plastic Surgeons 1966-, British Assen. of Plastic Surgeons 1973-; Danish Ed. Scandinavian Journal of Plastic and Reconstructive Surgery 1967–; Hon. mem. Japan Soc. of Plastic and Reconstructive Surgery 1975–; Gen. Sec. 2nd Int. Congress on Cleft Palate, Copenhagen, Aug. 1973; Honors Award, American Cleft Palate Assen. 1973. *Publications:* Inheritance of Harelip and Cleft Palate (Thesis) 1942, chapters in textbooks and articles in scientific periodicals on surgery and plastic surgery. *Leisure interest:* history of plastic surgery. *Address:* 16 Carl Feilbergs Vej, 2000 Copenhagen F, Denmark. *Telephone:* 866516.

FOJTÍK, Jan, PH.DR., C.SC.; Czechoslovak politician; b. 1 March 1928, Milotice nad Bečvou; ed. Charles Univ. Prague and Acad. of Social Sciences of Cen. Cttee. of CPSU Moscow. Ed. of journal Soviet Science-philosophy, Czechoslovak-Soviet Inst. 1950-51; Ed. Rudé právo 1951-68; Ed.-in-Chief of Nová mysl (New Thought); Rector of School of Political Studies Cen. Cttee., CP of Czechoslovakia 1969; Alt. mem. Cen. Cttee., CP of Czechoslovakia 1966-69, mem. 1969-, Sec. 1969-; mem. Cen. Cttee. Secr. 1970-; Deputy to House of People, Fed. Assembly 1969-71; Chair. Cultural Cttee., House of the People 1969; Deputy to House of Nations, Fed. Assembly 1971-; Award for Merits in Construction 1963, State Journalists' Prize 1965, Friendship Medal (Mongolia) 1972, Order of Victorious February 1973, Order of Republic 1978. *Address:* Central Committee of CP of Czechoslovakia, Prague 1, nábr. Kyjevské brigády 12, Czechoslovakia (Office).

FOLDES, Andor; American concert pianist; b. 21 Dec. 1913, Budapest, Hungary; s. of Emil Foldes and Valerie Ipolyi; m. Lili Rendy 1940; ed. Classical Gymnasium, Budapest, and under Dohnányi, Liszt Acad. of Music, Budapest; Debut with Budapest Philharmonic Orchestra 1921; First Prize, Int. Franz Liszt Piano Competition, Budapest 1933; numerous world tours; first Western pianist to play in Peking (1978) since Cultural Revolution; resident in U.S. 1939-61, Switzerland 1961-; Grosses Bundesverdienstkreuz (Fed. Repub. of Germany), Ordre du Mérite Culturel et Artistique (France), Médaille d'Argent (City of Paris) 1970. *Publications:* Keys to the Keyboard 1950, Gibt es einen zeitgenössischen Beethoven-Stil? 1963. *Leisure interests:* art collecting, literature, hiking, swimming. *Address:* Herrliberg, near Zürich, Switzerland.

FOLEY, Maurice; British politician; b. 9 Oct. 1925; ed. St. Mary's Coll., Middlesbrough; worked as electrical fitter; mem. Electrical Trades Union 1941-46, Transport and Gen. Workers' Union 1948–; mem. Parl. 1963-73; Joint Parl. Under-Sec. Home Office 1966-67; Minister of State, Foreign Office 1968-70; EEC Deputy Dir.-Gen. for Devt. 1973-. *Address:* Directorate-General for Development, 200 rue de la Loi, Brussels, Belgium.

FOLEY, Milton Joseph, B.A.; Canadian business executive; b. 1910, Kentwood, La., U.S.A.; s. of Jeremiah S. and Marie V. Foley; m. Kathryn Robuck 1935; one s. one d.; ed. Duval and Robert E. Lee High Schools, Florida, Notre Dame Univ.; Vice-Pres. Brooks-Scanlon Corp. 1938-41, Pres. 1941-46; Vice-Pres. Brooks-Scanlon Inc. 1946-48; Exec. Vice-Pres. Powell River Co. Ltd., Vancouver 1948-55, Pres. 1955-60; Pres. MacMillan, Bloedel & Powell River, Vancouver 1960-61; Vice-Pres. and Dir. Anglo-Canadian Pulp and Paper Mills Ltd., Quebec 1961-; Dir. Brooks-Scanlon, Inc., Suwanne Lumber Mfg. Co., Florida Forest Products. *Leisure interests:* golf and swimming. *Address:* A-4 600 Laurier Avenue, Quebec 4, P.Q., Canada. *Telephone:* 418-522-3713.

FOLGER, John Clifford, B.S., M.S.; American investment banker and diplomatist; b. 28 May 1896, Sheldon Ia.; s. of Homer Folger and Emma Funston; m. Kathrine Dulin 1929; two s.; ed. State Coll. of Washington; Chair. Bd. of Folger, Nolan, Fleming, Douglas, Inc. 1941-; Pres. Investment Bankers Assen. of America 1943-45, Piedmont Mortgage Co.; Chair Virginia Industries Inc.; Dir. Int. Business Machines, World Banking Corpn. Ltd., Hilton Hotels Corpn.; Amb. to Belgium 1957-59; Gov. New York Stock Exchange; Chair. Republican Nat. Finance Cttee. 1955-57, 1960-61; mem. Nat. Inst. of Social Science, The Pilgrims; mem. Exec. Cttee. District Chapter American Red Cross; mem. Washington Cathedral Chapter, Georgetown Board of Regents, Georgetown Univ.; Republican. *Address:* 15th Street, N.W., Washington 5, D.C. (Office); 2991 Woodland Drive, N.W., Washington 8, U.S.A. (Home).

FOLKERS, Karl, PH.D.; American professor of chemistry; b. 1 Sept. 1906, Decatur, Ill.; s. of August W. Folkers and Laura Black Folkers; m. Selma Johnson 1932; one s. one d.; ed. Univs. of Illinois and Wisconsin and Yale Univ.; with Merck and Co. Inc., Rahway, N.J. 1934-62, in Lab. of Pure Research 1934, Asst. Dir. of Research 1938, Dir. of Organic and Biochemical Dept. 1945, Assoc. Dir. of Research and Devt. Div. 1951, Dir. of Organic and Biological Chemical Research 1953, Exec. Dir. of Fundamental Research 1956, Vice-Pres. for Exploratory Research 1962; Pres. and Chief Exec. Officer Stanford Research Inst., Menlo Park, Calif. 1963; Prof. of Chem. and Dir. of Inst. for Biomedical Research, Univ. of Tex. 1968-; Harrison-Howe Recipient and Lecturer 1949; Pres. A.C.S. 1962; mem. Nat. Acad. of Sciences; Foreign mem. Royal Swedish Acad. of Engineering Sciences; mem. Bd. of Trustees Gordon Reseach Confs. 1971-77; mem. Council of Bd. of Trustees Stanford Research Inst. 1971-74; Hon. mem. Società Italiana di Scienze Farmaceutiche; Hon. D.Phar. (Uppsala, Sweden), Hon D.Sc. (Wisconsin and Illinois, and Philadelphia Coll. of Pharmacy and Science); numerous awards including Mead Johnson Co. Award (co-recipient) 1940, Presidential Certificate of Merit 1948, Perkins Medal 1960, Nichols Medal 1967, Von Meter Prize of American Thyroid Assen. (co-recipient), first Robert A. Welch Award and Medal for research in the life processes 1972, Acad. of Pharmaceutical Sciences Research Achievement Award in Pharmaceutical and Medicinal Chem. 1974. *Publications:* Vitamins and Coenzymes (Arthur F. Wagner and K. Folkers) 1964; and 625 publs. in the field of vitamins, antibiotics, hormones and drugs, 252 of which are on Coenzyme Q. *Address:* Institute for Biomedical Research, The University of Texas at Austin, Austin, Tex. 78712; 6406 Mesa Drive, Austin, Tex. 78731, U.S.A. (Home). *Telephone:* 512-471-7174 and 512-471-7292 (Office).

FOLLETT, Sir David Henry, Kt., M.A., PH.D.; British scientist and civil servant; b. 5 Sept. 1907, Wimbledon, London; s. of Septimus Follett and Rose Annie Follett (née Ford); m. Helen Alison Wilson 1932; three s. (deceased); ed. Rutlish School, Brasenose Coll., Oxford and Birkbeck Coll., London; with Adam Hilger Ltd. (optical instrument manufacturers) 1929-37; Asst. Keeper Dept. of Physics, Science Museum, London 1937-39, 1945-49; with Meteorological Branch, R.A.F. Volunteer Reserve 1939-45; Dep. Keeper Dept. of Physics, Science Museum 1949-57, Keeper Dept. of Electrical Eng. and Communications 1957-60, Dir. and Sec. 1960-73; Vice-Pres. Inst. of Physics and Physical Soc. 1965-69. *Publication:* The Science Museum under Henry Lyons 1978. *Leisure interests:* gardening, sailing. *Address:* 3 Elm Bank Gardens, Barnes, London, S.W.13, England. *Telephone:* 01-876 8302.

FONCHA, John Ngu; Cameroonian politician; b. 26 June 1916, Bafreng, N.-Western Province; ed. Bamenda Govt. School, St. Michael's Catholic School, Baquma; Asst. teacher and teacher 1933-50; Founded Kamerun United Nat. Congress (KUNC) 1951; mem. Eastern Region Nigeria Assembly 1951-54; Founder-mem. Kamerun Nat. Democratic Party (KNDP) 1955, Pres.-Gen. 1955-66; Prime Minister and Minister of Local Govt., Southern Cameroons 1959-61; Prime Minister, Western Cameroon 1961-65; Vice-Pres. Fed. Repub. of Cameroon 1961-70; joined Union Nat. Camerounaise 1966, Vice-Pres. Political Bureau 1970-75, Vice-Pres. Cen. Cttee. 1975-. *Address:* Union Nationale Camerounaise, B.P. 867, Yaoundé, United Republic of Cameroon.

FONDA, Henry; American actor; b. 16 May 1905; m. 1st Margaret Sullivan 1931 (deceased); m. 2nd Frances Seymour Brokaw 1936 (died 1950), one s. (Peter Fonda) one d. (Jane Fonda, *q.v.*); m. 3rd Susan Blanchard 1950 (divorced 1956), one d.; m. 4th Afdera Franchetti 1957 (divorced 1962); m. 5th Shirlee Adams 1965; ed. Univ. of Minnesota; Debut in Omaha 1925; first appearance in New York 1934; films 1935-; U.S. Navy 1942-45; Bronze Star; Presidential Citation. *Has appeared in the plays:* The Farmer Takes a Wife 1934, Blow ye Winds 1937, Mr. Roberts 1948, Point of No Return 1951, The Caine Mutiny Court Martial 1953, Two for the Seesaw 1958, Silent Night, Lonely Night 1959, Critics' Choice 1960, A Gift of Time 1962, Generation 1965, Our Town 1968, The Smith Family (TV Series) 1971, The Trial of A. Lincoln 1971, The Time of Your Life 1972, Red Pony (TV) 1973, Clarence Darrow 1974. *Films include:* The Farmer Takes a Wife 1935, Way Down East 1935, The Trail of the Lonesome Pine 1936, You Only Live Once 1937, Young Mr. Lincoln 1939, Drums Along the Mohawk 1939, The Grapes of Wrath 1940, The Lady Eve 1941, The Big Street 1941, Male Animal 1941, The Ox-Bow Incident 1942, My Darling Clementine 1946, The Fugitive 1947, Fort Apache 1948, Mister Roberts

1955, War and Peace 1956, The Wrong Man 1957, The Tin Star 1957, Twelve Angry Men 1957, Warlock 1959, Advise and Consent 1962, The Longest Day 1962, How the West was Won 1963, Fail Safe 1963, The Best Man 1964, Sex and the Single Girl 1964, The Rounders 1964, In Harm's Way 1965, A Big Hand for a Little Lady 1966, The Dirty Game 1966, The Battle of the Bulge 1966, Welcome to Hard Times 1967, Stranger on the Run 1967, Madigan 1968, Yours, Mine and Ours 1968, The Boston Strangler 1968, Once Upon a Time in the West 1969, Too Late the Hero 1970, There Was a Crooked Man 1970, The Cheyenne Social Club 1970, Sometimes a Great Notion 1972, Ash Wednesday 1973, The Serpent 1973, My Name is Nobody 1974, The Last Days of Mussolini, Rollercoaster 1977, The Swarm 1977. *Address:* c/o Paul Kohner Inc., 9169 Sunset Boulevard, Los Angeles, Calif. 90069, U.S.A.

FONDA, Jane; American actress; b. 21 Dec. 1937; d. of Henry Fonda (*q.v.*) and Frances (née Seymour); m. 1st Roger Vadim (*q.v.*) 1967 (dissolved 1973), 2nd Tom Hayden 1973; two c.; ed. Vassar Coll.; active anti-war campaigner; broadcast Hanoi radio 1972. *Films include:* Tall Story 1960, A Walk on the Wild Side 1962, Period of Adjustment 1962, Sunday in New York 1963, The Love Cage 1963, La Ronde 1964, Histoires extraordinares 1967, Barbarella 1968, They Shoot Horses Don't They? 1969, Klute 1970, Steelyard Blues 1972, Tout va bien 1972, A Doll's House 1973, Viet-Nam Journey (also Dir.), The Blue Bird 1975, Dick and Jane 1976, Julia 1977, Coming Home 1978; Acad. Award for Best Actress 1972, 1979. *Address:* c/o Department of Public Relations, Columbia Pictures Industries, Colgems Square, Burbank, Calif. 91505, U.S.A.

FONG, Hiram, LL.B.; LL.D.; American attorney and politician; b. 1 Oct. 1907; ed. Kalihi Waena Grammar School, St. Louis Coll. and McKinley High School, Univ. of Hawaii and Harvard Law School; fmr. Deputy City Attorney, Honolulu and Speaker Hawaii Territorial House of Representatives; Founder of law firm of Fong, Miho, Choy and Robinson; Pres. Finance Factors, Grand Pacific Life Insurance Co., Finance Realty, Finance Investment Co., and Market City Ltd.; U.S. Senator from Hawaii 1959-77; Republican; Hon. LL.D. (Tufts and Hawaii Univs., Lafayette Coll., Long Island Univ.). *Address:* 1102 Alewa Drive, Honolulu 96817, Hawaii, U.S.A.

FONTAINE, André; French journalist; b. 30 March 1921, Paris; s. of Georges Fontaine and Blanche Rochon-Duvignaud; m. Isabelle Cavaillé 1943; two s. one d.; ed. Coll. Ste. Marie de Monceau, Paris, Sorbonne and Faculty of Law, Paris Univ.; journalist 1946-, joined Le Monde 1947, Foreign Ed. 1951-69, Chief Ed. 1969-; Atlas international ed. of the year 1976. *Publications:* L'alliance atlantique à l'heure du dégel 1960, History of the Cold War (two vols.) 1965, 1967, La guerre civile froide 1969, Le dernier quart du siècle 1976, La France au bois dormant 1978. *Address:* Le Monde, 5 rue des Italiens, 75427 Paris Cédex 09, France. *Telephone:* 246 72-23.

FONTAINE, Maurice Alfred, D. ès SC.; French physiologist; b. 28 Oct. 1904, Savigny-sur-Orge; s. of Emile Fontaine and Lea Vadier; m. Yvonne Broca 1928; one s.; ed. Lycée Henri IV, Paris, and Faculty of Sciences and Faculty of Pharmacy, Univ. of Paris; various posts at Faculty of Sciences, Paris and Faculty of Pharmacy, Paris; Dir. of Institut Océanographique, Paris; Pres. Soc. Européenne d'Endocrinologie comparée 1969-; Dir. of Museum Nat. d'Histoire Naturelle, Paris 1966-71; lectures on comparative and ecological physiology, particularly of marine animals; specializes in comparative endocrinology and fish migration; Dir. of Research in these fields and also the study of ectocrine substances in sea water and marine pollution; fmr. Pres. Acad. des Sciences; mem. Acad. Nat. de Médecine, Acad. agriculture; Commdr. Légion d'honneur, Commdr. Ordre de Sahametrei (Cambodia), Commdr. Ordre de St. Charles (Monaco). *Publication:* Physiologie (collection La Pléïade) 1969. *Leisure interest:* the sea. *Address:* c/o Académie des Sciences, Institut de France, 23 quai de Conti, 75006 Paris; 25 rue Pierre Nicole, 75005 Paris, France.

FONTANET, Joseph, D. EN D.; French politician; b. 9 Feb 1921, Frontenex (Savoy); s. of Joseph Fontanet and Marthe Blanchard; m. Hélène Pouliquen 1940; five c.; ed. Faculté de Droit de Paris; in Secret Army, Second World War, joined French forces in N. Africa 1943; on staff of Sec. of State for Public Health and Population 1950-51; Conseiller Général, Moutiers (Savoy) 1951-, Pres. Conseil Général 1964; Counsellor, French Union 1956-; Deputy for Savoy 1956-58, 1962-69, 1973; Sec. of State for Industry and Commerce 1959, for Internal Commerce 1959-61; Minister of Public Health and Population 1961-62; Sec.-Gen. MRP 1963-66; Minister of Labour 1969-72, of Educ. 1972-74; Ed. J'Informe 1977-; Croix de guerre (1939-45), Chevalier, Légion d'honneur. *Leisure interests:* sailing, swimming, hunting, skiing. *Address:* 46 rue des Acacias, 75017 Paris (Office); 36 boulevard Emile-Augier, 75016 Paris, France (Home). *Telephone:* 763-11-55 (Office); 504-70-99 (Home).

FONTANNE, Lynn; British actress; b. 6 Dec. 1887, Woodford, Essex; m. Alfred Lunt (died 1977). began as child in pantomime, Drury Lane; small parts, various London cos. with Lewis Waller, Beerbohm Tree, Lena Ashwell; played in touring cos. with Weedon Grossmith for few seasons, playing name part in Young Lady of 17, and other small parts in various curtain-raisers; on tour in Milestones, then revival in London; small parts in My Lady's Dress, U.S.A.; many plays with Laurette Taylor; name part in Dulcy, followed by many leads, including Goat Song, Strange Interlude, Arms and the Man, Second Man, Caprice, At Mrs. Beams, Pygmalion, In Love with Love, The Guardsman, Meteor, Reunion in Vienna, Design for Living, Point Valaine, Taming of the Shrew, Idiots' Delight, The Seagull, Amphytrion 38, There Shall Be No Night by Robert Sherwood, Love in Idleness by Terence Rattigan, I Know My Love (adapted from Achard's Auprès de ma Blonde); played in Quadrille 1952-53, The Great Sebastian, The Visit; many hon. degrees. *Address:* c/o Theatre Guild, 245 West 52nd Street, New York, N.Y., U.S.A.

FONTEYN, Margot (*see* Arias, Señora Doña Margot Fonteyn de).

FONTOURA, Gen. Carlos; Brazilian army officer and politician; b. 1912, Cachoeria, Rio Grande do Sul; s. of Graciliano Pôrto da Fontoura and Otília Neves da Fontoura; ed. Colégio Militar, Porto Alegre, Escola Militar do Realengo, Escola das Armas, Escola de Comando e Estado-Maior do Exército; Commdr. 8th Regt. Cavalry; Chief of Staff 2nd Cavalry Div.; Chief of Staff 6th Infantry Div.; Chief of Staff 3rd Army Div. 1968; fmr. Head. Nat. Information Service (Serviço Nacional de Informaçoes). *Address:* Rio de Janeiro, RJ, Brazil.

FOOT, Rt. Hon. Michael Mackintosh, P.C., M.P.; (brother of Lord Caradon *q.v.*); British journalist and politician; b. 23 July 1913; s. of the late Isaac Foot; m. Jill Craigie 1949; ed. Forres School, Swanage, Leighton Park School, Reading, and Wadham Coll. Oxford; Pres. Oxford Union 1933; contested Monmouth 1935; Asst. Ed. Tribune 1937-38, Joint Ed. 1948-52, Ed. 1952-59, Man. Dir. 1952-74; mem. staff Evening Standard 1938, Acting Ed. 1942-44; political columnist Daily Herald 1944-64; mem. Parl. for Plymouth, Devonport 1945-55, for Ebbw Vale 1960-; Opposition spokesman on European Policy; Sec. of State for Employment 1974-76; Lord Pres. of Council, Leader of House of Commons 1976-79; Shadow Leader May 1979-; Deputy Leader of Labour Party Oct. 1976-; Spanish Republican Order of Liberation 1973; Labour. *Publications:* Armistice 1918-1939 1940, Trial of Mussolini 1943, Brendan and Beverley 1944, part author Guilty Men 1940 and Who Are the Patriots? 1949, Still At Large 1950, Full Speed Ahead 1950, The Pen and the Sword 1957, Parliament in Danger 1959, Aneurin Bevan Vol. I 1962, Vol. II 1973, Harold Wilson: A Pictorial Biography 1964. *Address:* House of Commons, Westminster, London, S.W.1, England.

FOOTE, Emerson; American advertising executive; b. 13 Dec. 1906; ed. public schools; clerk 1923-31; Leon Livingston Advertising, San Francisco 1931-35; Yeomans and Foote (own advertising business) 1935-36; with J. Stirling Getchell Inc., New York 1936-38; Vice-Pres., Dir. and Exec. Vice-Pres. Lord & Thomas 1938-42; Pres. and Dir. Foote, Colne & Belding 1942-50; Vice-Pres. and dir. McCann-Erickson Inc. 1951, Exec. Vice-Pres. 1952-57, Sr. Vice-Pres. 1958-60, Pres. 1960-63, Chair. of Bd. 1962-64; Pres. Kastor Foote Hilton & Atherton Inc. 1964-67; Chair. Emerson Foote Inc. 1967; Consultant and Dir. Bozell & Jacobs Inc. 1967-; Chair. Campaign to Check Population Explosion 1967-69; Dir. Nat. Liberty Corpn., Valley Forge, Pa. 1969-73; Chair. DeMoss Assocs. 1969-73; adviser to Govt. of India on Family Planning 1969; mem. U.S. Public Health Service Cancer Control advisory cttee. 1972-; official of philanthropic orgs. *Address:* Gypsy Trail, Carmel, N.Y. 10512, U.S.A.

FOOTS, Sir James (William), Kt., B.M.E., M.AUS., I.M.M.; Australian mining engineer and company director; b. 12 July 1916; m. Thora H. Thomas 1939; one s. two d.; ed. Coburg and Univ. High Schools, Melbourne and Melbourne Univ.; mining engineer, with North Broken Hill Ltd. 1938-43, Allied Works Council 1943-44, Lake George Mines Ltd. 1944-45, Zinc Corpn. Ltd. 1946-54; Asst. Gen. Man. Zinc Corpn. and New Broken Hill Consolidated Ltd. 1952-54; Gen. Man. Mount Isa Mines Ltd. 1955-56, Dir. 1956-, Man. Dir. 1966-70, Chair. 1970-; Chair. and Chief Exec. M.I.M. Holdings Ltd. 1970-; Dir. Bank of New South Wales 1971; mem. Senate Queensland Univ. 1970-; Pres. Australian Mining Industry Council 1974, 1975; Pres. Australasian Inst. of Mining and Metallurgy 1974; mem. Econ. Consultative Group of Fed. Govt. *Address:* M.I.M. Holdings Limited, G.P.O. Box 1433, Brisbane, Queensland 4001; and M.I.M. Holdings Limited, M.I.M. Building, 160 Ann Street, Brisbane, Queensland 4001, Australia.

FORBES, Hon. Alexander James, M.C., D.PHIL.; Australian politician; b. Dec. 1923, Hobart, Tasmania; m. Margaret Allison Blackburn 1952; two s. three d.; ed. Knox Grammar School, Sydney, St. Peter's Coll., Adelaide, Royal Mil. Coll., Duntroon, and Univs. of Adelaide and Oxford; served with 2nd Australian Mountain Battery, New Guinea and Bougainville 1942; mem. British Occupation Forces, Japan 1946, on attachment to British Army 1946-47; student, Adelaide Univ. 1947-50; a resident tutor, St. Mark's Coll., Adelaide 1951; travelling scholarships until 1954; Lecturer in Political Science, Univ. of Adelaide 1954-56; Liberal M.P. for Barker 1956-; Minister for the Army and Minister Assisting the Treas., also responsible for Navy 1963-64; Minister for Health 1966-71, for Immigration 1971-72; Opposition spokesman for Defence 1973-75; mem. Council, Australian Nat. Univ. 1961-63; Pres. Australian Inst. of Int. Affairs (South Australian Branch) 1960-62. *Address:* AMP Building, King William Street, Adelaide; Walkerville, Adelaide, S. Australia (Home).

FORBES, Sir Archibald Finlayson, G.B.E.; Kt.; British chartered accountant and business executive; b. 6 March 1903, Johnstone, Renfrewshire; s. of Charles and Elizabeth Forbes; m. Angela Gertrude Ely 1943 (died 1969); one s. two d.; ed. Paisley and Glasgow Univ.; Chartered accountant 1927; fmr. mem. firm of Thomson McLintock & Co.; mem. various Govt. Cttees. and Comms. 1931-65; Exec. Dir. Spillers Ltd. 1935-73; Dir. of Capital Finance, Air Ministry 1940; Deputy Sec. Ministry of Aircraft Production 1940-43; Controller of Repair, Equipment and Overseas Supplies for R.A.F. 1943-45; mem. Aircraft Supply Council 1943-45; Chair. Iron and Steel Board 1946-49; Chair. The Debenture Corpn. 1949–; Pres. Fed. of British Industries 1951-53; Chair. Iron and Steel Board 1953-59; Chair. Cen. Mining and Investment Corpn. 1959-64; Chair. Midland Bank 1964-75, Pres. 1975-; Chair Midland and Int. Banks (MAIBL) 1964-76, Pres. 1975-; Chair. Spillers Ltd. 1965-68, now Pres.; Chair. Cttee. of London Clearing Banks 1970-72; Pres. British Bankers' Assn. 1970-72, Epsom Coll.; Deputy Chair. Thomas Cook Group 1975-77; fmr. Dir. Shell Transport and Trading Co., Dunlop Holdings, English Electric Co.; fmr. Deputy Chair. Finance Corpn. for Industry; Hon. Treas. Nat. Assn. Leagues of Hospital Friends, British Wireless for the Blind Fund. *Leisure interests:* golf, fishing. *Address:* 40 Orchard Court, Portman Square, London, W.1.; Mattingley Green Cottage, Mattingley, Hants., England. *Telephone:* 01-935 9304; Heckfield 247.

FORBES, Bryan; British film executive, director and screenwriter; b. 22 July 1926, Stratford-atte-Bow, London; m. Nanette Newman 1955; two d.; ed. West Ham Secondary School; studied at Royal Acad. Dramatic Art, first stage appearance 1942; served in Intelligence Corps 1944-48; entered films as actor 1948; wrote and co-produced The Angry Silence 1959; Dir. Whistle Down the Wind 1961; Writer and Dir. The L-Shaped Room 1962, Seance on a Wet Afternoon 1963, King Rat 1964; Writer Only Two Can Play 1962; Producer and Dir. The Wrong Box 1965; Writer, Producer and Dir. The Whisperers 1966, Deadfall 1967, The Madwoman of Chaillot 1968, The Raging Moon (Long Ago Tomorrow in U.S.A.) 1970; Writer, Producer and Dir. filmed biography of Dame Edith Evans for Yorkshire TV 1973; filmed documentary on life style of Elton John for ATV 1974; wrote and dir. The Slipper and Rose 1975; produced, wrote and dir. International Velvet 1977; Head of Production, Assoc. British Picture Corpn. 1969-71, subsequently became EMI Film Productions Ltd.; mem. Gen. Advisory Council of BBC 1966-69, Experimental Film Bd. of British Film Acad.; Govt. Nominee BBC Schools Broadcasting Council 1972-; Trustee, Writers' Guild of Great Britain; British Film Acad. Award for The Angry Silence; Best Screenplay Awards for Only Two Can Play, Seance on a Wet Afternoon; UN Award for The L-Shaped Room; many Film Festival prizes. *Publications:* Truth Lies Sleeping (short stories) 1951, The Distant Laughter (novel) 1972, Notes for a Life (autobiog.) 1974, The Slipper and the Rose 1976, Ned's Girl (biography of Dame Edith Evans) 1977. *Leisure interests:* collecting books, running a bookshop, landscape gardening, collecting Napoleonic relics, avoiding bores. *Address:* c/o The Bookshop, Virginia Water, Surrey, England. *Telephone:* Wentworth 2463.

FORD, Alexander, Polish film director; b. 24 Jan 1908, Łódź. Dir. short, later full length films, Poland, 1928-39; worked in U.S.S.R. film studios during Second World War making documentary and educational films in Novosibirsk and Tashkent; organized Polish Army Film Command 1943; Man. Dir. Film Polski 1945-47; Artistic Dir. film production group Studio 1955; emigrated to Israel 1968; Gold Medal, Venice Festival 1948, Nat. Award, First Class 1952, Cannes Festival Award 1954, Nat. Award, First Class 1960. *Films include:* Early Morning, Polish Manchester (Droga Młodych), Street Legion (Legion Ulicy), Na Start, Battle at Lenino (Bitwa Pod Lenino), Majdanek, Cmentarzysko Europy, Border Street, (Ulica Graniczna) 1948, The Youth of Chopin (Młodość Chopina), Five from Barska Street (Piątka z Ulicy Barskiej) 1954, The Eighth Day of the Week 1958, Knights of the Teutonic Order (Krzyzacy) 1960, The First Circle 1972. *Address:* Israeli Film Service, P.O. Box 2090, Jerusalem, Israel.

FORD, Edmund Brisco, M.A., D.SC., F.R.S.; British professor emeritus; b. 23 April 1901, England; s. of Harold Dodsworth Ford and Gertrude Emma Bennett; ed. Wadham Coll., Oxford; demonstrator in Zoology and Comparative Anatomy, Oxford 1928; Reader in Genetics, Oxford 1938, subsequently Prof. of Ecological Genetics, now Prof. Emer.; Fellow of All Souls Coll., Oxford to 1971; Pres. Genetical Soc. of Great Britain 1946-49; Hon. Fellow, Wadham Coll., Oxford; Hon. F.R.C.P.; Hon. D.Sc. (Liverpool); Darwin Medal of Royal Soc. 1954; Weldon Medal and Prize Oxford Univ. 1959; Medal of Helsinki 1967. *Publications:* Mendelism and Evolution 1931, The Study of Heredity 1938, Genetics for Medical Students 1942, Butterflies 1945, Moths 1955, Ecological Genetics 1964, Genetic Polymorphism 1965. *Leisure interests:* archaeology, travel, study of paintings. *Address:* Genetic Laboratories, Department of Zoology, Parks Road, Oxford; All Souls College, Oxford; 5 Apsley Road, Oxford, England (Home). *Telephone:* 56787 (Laboratory); 22251 (All Souls Coll.); 58147 (Home).

FORD, Gerald Rudolph; American politician and lawyer; b. 14 July 1913, Omaha, Nebraska; s. of Gerald R. Ford, Sr. and Dorothy Gardner Ford; m. Elizabeth (Betty) Bloomer 1948; three s. one d.; ed. Univ. of Michigan and Yale Univ. Law School; partner, law firm Ford and Buchen 1941-42; U.S. Navy service 1942-46; mem. law firm Butterfield, Keeney and Amberg 1947-49; mem. U.S. House of Reps. 1949-73; House Minority Leader 1965-73; Vice-Pres. of U.S.A. 1973-74, Pres. of U.S.A. 1974-77; Visiting Prof. in Govt., Univ. of Mich.; Chair. Bd. of Acad. for Educ. Devt. 1977-; mem. Interparl. Union, Warsaw 1959, Brussels 1961, Belgrade 1963; mem. U.S.-Canadian Interparl. Group, Chair. House of Repub. Conf. 1963; mem. Warren Comm.; American Political Science Distinguished Congressional Service Award; Republican. *Publications:* Portrait of the Assassin (with John R. Stiles), A Time to Heal (memoirs) 1979. *Address:* P.O. Box 927, Rancho Mirage, Calif. 92270, U.S.A.

FORD, Henry, II; American industrialist; b. 4 Sept. 1917, Detroit; s. of Edsel B. and Eleanor (Clay) Ford; brother of William Clay Ford (*q.v.*); m. 1st Anne McDonnell 1940 (divorced), one s. two d.; m. 2nd Maria Cristina Vettore Austin 1965; ed. Hotchkiss School, Yale Univ.; Dir. Ford. Motor Co. 1938; spent one year at Ford Motor Co. 1940; joined Navy 1941; released because of his father's death and rejoined Ford Motor Co. 1943; Vice-Pres. 1943-44; Exec. Vice-Pres. 1944; Pres. 1945-60, Chair. 1960-, Chief Exec. Officer 1960-79; Alt. Del. to UN 1953; Chair. Trustees, Ford Foundation 1943-46, Trustee 1956-76; mem. Business Council, Bd. of Govs. UN Assn., U.S.A.; Co.-Chair. Detroit Renaissance. *Address:* Ford Motor Co., The American Road, Dearborn, Mich. 48121 (Office); Grosse Pointe Farms, Mich., U.S.A. (Home).

FORD, Sir John Archibald, K.C.M.G., M.C., M.A. (OXON.); British diplomatist; b. 19 Feb. 1922, Newcastle under Lyme; ed. St. Michael's Coll., Tenbury, Sedbergh School, Oriel Coll., Oxford; served in Royal Artillery, rank of Major 1942-46; joined Foreign Service (later Diplomatic Service) 1947; Third Sec. British Legation, Budapest 1947-49, Third Sec. and Resident Clerk Foreign Office 1949-52, Private Sec. to Perm. Under-Sec. of State, F.O. 1952-54; Consul, San Francisco 1954-56; seconded to H.M. Treasury 1956-59; attended course at Admin. Staff Coll., Henley 1959; First Sec. and Head of Chancery British Residency, Bahrain 1959-61; Asst., F.O. Personnel Dept. 1961-63, Head of Establishment and Org. Dept., Diplomatic Service 1964-66; Counsellor (Commercial), British Embassy, Rome 1966-70; Asst. Under-Sec. FCO 1970-71; Consul-Gen. New York and Dir.-Gen. British Trade Devt. in U.S. 1970-75; Amb. to Indonesia 1975-78; High Commr. to Canada 1978-. *Address:* British High Commission, 80 Elgin Street, Ottawa K1P 5K7, Canada; Foreign and Commonwealth Office (Ottawa), London, S.W.1, England. *Telephone:* 237-1530.

FORD, Robert Arthur Douglass, M.A., C.C.; Canadian diplomatist; b. 8 Jan. 1915, Ottawa; s. of Arthur Rutherford Ford and May Lavinia Scott; m. Maria Thereza Gomes 1946; ed. Univ. of Western Ontario and Cornell Univ.; Instructor, History Dept., Cornell Univ. 1939-40; Dept. of External Affairs 1940-, served Rio de Janeiro, Moscow, London 1940-51; Chargé d'Affaires, Moscow 1951-54; Head of European Div., Dept. of External Affairs 1954-57; Amb. to Colombia 1957-58, to Yugoslavia 1959-61, to U.A.R. 1961-63, to U.S.S.R. 1964-; Hon. D.Litt., Western Ontario 1965; Gov.-General's Award for Poetry 1956, Gold Medal of Professional Inst. of Public Service of Canada 1971. *Publications:* A Window on the North

(poetry) 1956, The Solitary City (poetry) 1969. *Leisure interests:* travel, poetry, translations (Russian, Portuguese). *Address:* c/o Department of External Affairs, Ottawa, Canada.

FORD, Wendell Hampton; American politician; b. 8 Sept. 1924, Owensboro, Ky.; s. of E. M. and Irene (Schenck) Ford; m. Jean Neel 1943; one s. one d.; ed. Daviess County High School, Univ. of Kentucky, Maryland School of Insurance; served U.S. Army, Ky. 1944-46, Nat. Guard 1949-62; Partner, Gen. Insurance Agency, Owensboro 1959-; Chief Asst. to Gov. of Ky. 1959-61; mem. Ky. Senate 1966-67; Lieut.-Gov. Ky 1967-71, Gov. 1971-74; U.S. Senator from Kentucky Dec. 1974-; mem. Senate Energy and Natural Resources Cttee., Commerce, Science, Transportation Cttee. (Chair. Consumer Sub-Cttee.); mem. Democratic Steering Cttee., Chair. Democratic Nat. Campaign Cttee. 1976, Head of Democratic Senatorial Campaign Cttee.; Chair. Nat. Democratic Govs. 1973-74; fmr. mem. Nat. Democratic Party Advisory Council; fmr. Chair. common law enforcement, justice and public safety, Southern Govs.' Conf.; mem. U.S. Chamber of Commerce, Pres. 1956-57; Int. Vice-Pres. Jaycees. *Leisure interests:* fishing, hunting. *Address:* 4974 Sentinel Drive, Apt. 202, Sumner Village, Sumner, Md. 20016; 2017 Fieldcrest Drive, Owensboro, Ky. 42301, U.S.A. (Home). *Telephone:* (301) 229-6887; (502) 684-6467 (Home).

FORD, William Clay, B.S.(ECON.); American businessman; b. 14 March 1925; s. of Edsel Ford and Eleanor Clay Ford; brother of Henry Ford II (*q.v.*); ed. Yale Univ.; Dir. Ford Motor Co. 1948-; mem. of Sales and Advertising Staff 1948 and of the Industrial Relations Staff 1949; quality control Man. Lincoln-Mercury Div. Jet Engine Defence Project 1951; Man. Special Product Operations 1952; Vice-Pres. Ford Motor Co. and Gen. Man. Continental Div. 1953; Group Dir. Continental Div. 1955; Vice-Pres. Product Design 1957-; Chair. Design Cttees., of Exec. Cttee. 1978-. *Address:* Ford Motor Co., The American Road, Dearborn, Mich. 48121, U.S.A.

FORDE, Rt. Hon. Francis Michael, P.C.; Australian schoolteacher, electrical engineer, politician and diplomatist; b. 18 July 1890, Mitchell, Queensland; s. of late John Forde and Ellen Forde; m. Veronica Catherine O'Reilly 1925; one s. three d.; ed. Christian Brothers Coll., Toowoomba; mem. Queensland Legislature 1917-22; Fed. M.P. 1922-46; mem. Royal Comm. on Motion Picture Industry 1927-28; Minister for Trade and Customs 1930-31 and 1932; Act. Minister for Markets and Transport 1930-31; Deputy Leader Fed. Labour Party and of Opposition 1931-41; Deputy Prime Minister, Deputy Leader Federal Labour Party and Minister for the Army 1941-46; Minister for Defence 1946; Act. Prime Minister 1944-45; Leader Australian Del. to Commonwealth Minister's Conf. March-April 1945; Prime Minister July 1945; Leader, Australian Del. to San Francisco Conf. April 1945; Australian High Commr. in Canada 1946-53; Dean of the Diplomatic Corps, Ottawa 1952-53; mem. for Flinders, Queensland Legislature 1955-57; Rep. Australia at Gen. MacArthur's Funeral, U.S.A. 1964; Hon. LL.D. (Ottawa, Montreal, Laval and Queensland Univs.). *Leisure interests:* tennis, golf, bowls, reading. *Address:* 44 Highland Terrace, St. Lucia, Brisbane, Queensland 4067, Australia. *Telephone:* Brisbane 70-9447.

FORDE, Henry deBoulay, M.A. LL.B.; Barbadian lawyer and politician; b. 20 March 1933; adopted s. of late Courtley Ifill and of Elise Ifill; m. Patricia Yvonne Williams 1960; two s.; ed. Harrison Coll., Barbados, Christ's Coll., Cambridge, Middle Temple, London; Research Assistant, Dept. of Criminology, Univ. of Cambridge 1958, Research Student, Int. Law, worked on British Digest of Int. Law, Univ. of Cambridge 1958-59, Supervisor and Tutor in Int. Law, Emmanuel Coll., Cambridge 1958-59; called to English Bar 1959, to Barbadian Bar 1959, now Sr. Counsel; Lecturer, Extra-Mural Programme, Univ. of West Indies 1961-68, Part-time Lecturer, Caribbean Studies, 1964-69; mem. House of Assembly for Christ Church West 1971-; Minister of External Affairs and Attorney-Gen. Sept. 1976-; *Leisure interests:* reading, walking, gardening. *Address:* Fan Ling, Pine Hill, St. Michael, Barbados, West Indies.

FORDWOR, Kwame Donkor, M.B.A., PH.D., A.C.C.A.; Ghanaian international financial official; b. 29 Aug. 1933; m. Cecilia D. Fordwor 1960; two s. four d.; ed. Univ. of Science and Tech., Kumasi, Univ. of Pennsylvania, U.S.A.; accountant with subsidiaries of Unilever Co. 1960-63, incl. United Africa Co. Ltd., Accra Ice Co. and A. J. Steward; Investment Officer, South Asia Div. of IFC 1966-70, Senior Investment Officer and Head of S. Asia Div. 1970-71; Exec. Chair. Capital Investments Bd., Ghana 1971-75; Special Asst. to Commr. for Finance 1974-76; Vice-Chair. Intergovernmental Group of 24 on Int. Monetary Affairs Jan. 1975; Pres. African Devt. Bank ADB) and African Devt. Fund 1976-. *Publications:* articles in journals. *Leisure interests:* walking, gardening, tennis, music. *Address:* African Development Bank, B.P. 1387, Abidjan, Ivory Coast.

FOREMAN, Carl, C.B.E., F.R.S.A.; American cinema writer, producer and director; b. 1914; s. of Isidore and Fanny (Rozin) Foreman; m. Evelyn Smith 1965; ed. Crane Coll., Univ. of Illinois and Northwestern Univ.; Man. Dir., Exec. Producer, Open Road Films Ltd.; mem. Bd. of Govs. British Film Inst. 1965-71; mem. Exec Council, Film Production Assn. of Great Britain 1967-75; Pres. Writer's Guild of Great Britain 1967-75; mem. Bd. of Govs., Nat. Film School; Writers' Guild of America Award; Best American Drama: High Noon 1952; Writers' Guild of Great Britain Laurel Award for Distinguished Service to Writers 1968; Writers' Guild of America Laurel Award 1969; Variety Club of Great Britain Show Business Writer Award 1972; Commdr. Order of the Phoenix (Greece). *Film Scripts:* So This is New York 1948, Champion 1949, Home of the Brave 1949, The Men 1950, Cyrano de Bergerac 1950, The Bridge on the River Kwai 1957; Film Writer-Producer: High Noon 1952, The Key 1957, The Guns of Navarone 1961; Film Writer-Producer-Director: The Victors 1963; Exec. Producer: Born Free 1965; Writer-Producer Mackenna's Gold 1967; Exec. Producer: Otley 1968, The Virgin Soldiers 1969, Living Free 1971, Young Winston 1972. *Address:* 1370 Avenue of the Americas, New York 10019, U.S.A. *Telephone:* 212-757-4000

FORGEOT, Jean; French business executive; b. 10 Oct. 1915, Paris; s. of P. E. Forgeot and Aydée Lefebvre; m. Sylviane Busck 1948; one d.; ed. Faculté de Droit, Paris; fmrly. Insp., Ministry of Finance; Adviser to the Cabinet of Vincent Auriol; Sec.-Gen. to Pres. of Repub. 1947-54; fmr. Pres. Dir.-Gen. Schneider S.A.; Vice-Pres. Chrysler-France; Pres. Dir.-Gen. Cie. Financière de l'Union Européenne, Esso-Standard, Cie. Maritime des Chargeurs Réunis, Imprimerie Georges Lang; Pres. Creusot-Loire; Officier, Légion d'honneur, Croix de guerre (1939-45). *Leisure interests:* tennis, golf. *Address:* 80 boulevard Flandrin, 75016 Paris, France.

FORLANI, Arnaldo; Italian politician; b. 8 Dec. 1925, Pesaro; s. of Luigi and Caterina Forlani; m. Alma Ioni 1956; three s.; ed. Univ. of Urbino; mem. Chamber of Deputies 1958-; Deputy Sec. of Christian Democrat Party 1962-69, Political Sec. (Leader) 1969-73; Minister of State Undertakings 1969-70, of Defence 1974-76, of Foreign Affairs 1976-. *Leisure interest:* journalism. *Address:* Piazzale Schumann 15, Rome, Italy. *Telephone;* 6784109 (Home).

FORMAN, Miloš; Czechoslovak film director; b. 18 Feb. 1932, Čáslav; ed. Film Faculty, Acad. of Music and Dramatic Art, Prague; Dir. Film Presentations, Czechoslovak TV 1954-56; of Laterna Magika, Prague 1958-62; mem. Artistic Cttee., Šebor-Bor Film Producing Group; Czechoslovak Film Critics' Award for Peter and Pavla 1963, Grand Prix 17th Int. Film Festival, Locarno, for Peter and Pavla 1964, Prize Venice Festival 1965, Grand Prix of French Film Acad. for A Blonde in Love 1966, Klement Gottwald State Prize 1967, Acad. Award (Best Dir.) for One Flew Over the Cuckoo's Nest 1976. *Films include:* Talent Competition, Peter and Pavla 1964, The Knave of Spades, A Blonde in Love 1965, Episode in Zruč, Like ■ House on Fire (A Fireman's Ball) 1968, Taking Off 1971, One Flew Over the Cuckoo's Nest 1975, Hair 1979, Co-Dir. Visions of Eight 1973. *Address:* Living in U.S.A.

FORMENTINI, Paride, DR.ECON. and COMM.SC.; Italian businessman; b. 12 June 1899, Cremona: ed. Genoa Univ.; held diplomatic posts 1921-24; Personal Sec. to Dr. Alberto Pirelli of Società Italiana Pirelli (Milan) 1924-25; Dep. Man., Sec. Bd. of Dirs. and Exec. Cttee. Cen. Man., Banco di Roma 1926-31; Dep. Gen. Man. Istituto Mobiliare Italiano (IMI) 1932-33; Gen. Man. Società Torinese Esercizi Telefonici (S.T.E.T.) 1934-36; Gen. Man. Società Finanziaria Marittima Finmare 1937-47; Dep. Gen. Man. Banca d'Italia 1947-48, Gen. Man. 1948-59; Chair. and Pres. European Investment Bank 1959-70, Hon. Pres. 1970-; Chair. of Board Fonditalia Man. Co. 1970-. *Address:* c/o Fonditalia Management Co., boulevard de la Pétrusse 134, Luxembourg.

FORMICA, Gianni, PH.D.; Italian space research administrator; b. 23 March 1922, Milan; s. of Aldo Formica and Angioletta Veggi; m. Emma Saracchi 1958; one d.; ed. Milan Polytechnic; Dir. CGE—Gen. Electric, Milan 1959-69; Prof. of Hydraulics Faculty of Agronomy, Catholic Univ. of Milan 1962-70; Dir. Società Italiana Sistemi Informativi Elettronici 1969-73, Head, Milan office 1970-73; Prof. of Hydraulics, Faculty of Eng., Univ. of Ancona 1971-73; Dir. European Space Operations Centre 1973-; *Publications:* numerous works on digital computing, the scientific applications of computers and related subjects, satellite operations. *Leisure interests:* skiing, boating, classical music, literature. *Address:* European Space Operations Centre, 5 Robert-Bosch-Strasse, 6100 Darmstadt, Federal Republic of Germany. *Telephone:* (06151) 886-300.

FORNA, Alpha George Sembu; Sierra Leonean politician; b. 11 April 1932; s. of Alhaj Mendé and Fatu Forna; m. 1958; six s.

two d.; ed. Fourah Bay Coll., Univ. Coll., Sierra Leone, London and Antwerp; Asst. Social Devt. Officer, Ministry of Social Welfare 1955-58; Diamond Valuer, London 1958-62, Sierra Leone 1962-69; Minister of Transport and Communications 1969, of Finance 1970-71, of Agric. and Natural Resources 1971-73, of Health 1973-74, of Tourism and Culture 1974-78; M.P. for Bombali South. *Leisure interests:* farming, boating, game hunting, table tennis, lawn tennis. *Address:* Ministry of Tourism and Culture, Freetown; P.O. Box 788, 121 Wilkinson Road, Freetown, Sierra Leone. *Telephone:* 23043 (Office); 30534 (Home).

FORNARI, Giovanni, DR. JUR.; Italian diplomatist; b. 21 May 1903, Rome, Italy; s. of Giuseppe Fornari and M. Concetta de Ferrante dei baroni di San Paolo; m. Maretta Arnaldi 1934; two s. one d.; ed. Univ. of Rome. Vice-Consul, France 1926-30; Ministry of Foreign Affairs 1930-34; Del. to League of Nations 1932; First Sec., Madrid, Morocco, Athens 1934-40; Missions to Turkey 1933, Yugoslavia 1940; Ministry of Foreign Affairs 1941-42, 1944-45; Chargé d'affaires, Netherlands 1943, Argentina 1946-47; Amb. to Chile 1948-49; Gov. of Italian Somaliland 1950-53 (with rank of Amb.); Amb. to Brazil 1953-55, to U.A.R. 1955-61; Dir.-Gen. of Political Affairs, Ministry of Foreign Affairs, Rome 1961-64; Amb. to France 1964-69; Pres. Electroconsult (ELC); Pres. Italia-Francia Assen.; Vice-Pres. FUNDUS. *Leisure interests:* golf, gardening. *Address:* Via F. Ferrara 30, Rome, Italy. *Telephone:* 327-62-01.

FORNASETTI, Piero; Italian painter, designer, manufacturer of large line of household articles and decorative arts consultant; b. 1913; one s.; ed. Brera Acad. of Arts; designer of textiles, mosaics, furniture, decorations and porcelain; Ed. of books in limited editions, etc.; Perm. Exhbn., Milan; Sarfatti Scholarship, Neiman Marcus Award. *Principal works:* screens, furniture, panels, porcelain and ceramic items, decorating accessories, etc.; exhbns. in stores, fairs and museums: Zürich and Basel; Bolide design, Musée des Arts Décoratifs, Palais du Louvre, Paris 1970; Interior decoration: Padua Univ., Hilton Hotel, Istanbul, Hotel Duomo (Milan); interior decoration for ships: Giulio Cesare, Conte Grande, Andrea Doria, Australia, Oceania, and for hotels, etc. *Leisure interests:* collection of documents, stands, decorative arts. *Address:* Via Antonio Bazzini 14, Milan, Italy. *Telephone:* 292-662.

FOROUGHI, Mahmoud; Iranian diplomatist; b. 8 Aug. 1915; ed. Teheran Univ.; Iranian Foreign Service 1939-, London 1943-48, Ministry of Foreign Affairs 1948-50; Consul-Gen. in New York, Del. to UN Gen. Assembly 1950-56; Amb. to Brazil 1957-62; Under-Sec. for Political Affairs, Ministry of Foreign affairs 1962; Amb. to Switzerland 1962-63, to U.S.A. 1963-65, to Afghanistan 1966-72; Dir. Inst. of Int. Affairs 1974-79. *Address:* c/o Ministry of Foreign Affairs, Teheran, Iran.

FORREST, Sir James Alexander, Kt., F.A.A.; Australian lawyer and industrialist; b. 10 March 1905; s. of John and Mary Gray Forrest; m. Mary Christina Armit 1939; three s.; ed. Caulfield Grammar School, Melbourne Univ.; Partner, Hedderwick Fookes & Alston, Solicitors 1933-70, Consultant 1970-73; served R.A.A.F. and Dept. Aircraft Production 1942-45; Dir. Victoria Branch Bd., Australian Mutual Provident Soc. 1945-, Chair. 1957-77, Dir. Australian Mutual Provident Soc. 1961-77; Dir. Australian Consolidated Industries Ltd. 1950-, Chair. 1953-77; Dir. Nat. Bank of Australasia Ltd. 1950-, Chair. 1959-78; Chair. Chase-N.B.A. Group Ltd. 1969-, Alcoa of Australia Ltd. 1970-78; Dir. Western Mining Corpn. Ltd. 1970-77; mem. Council, Boy Scouts Assen. of Australia 1949-73, Scout Educ. and Training Cttee., 1976-, Council, Scotch Coll. 1959-71, Royal Children's Hosp. Research Foundation 1960-78, Council, Monash Univ. 1961-71, Victoria Law Foundation 1960-78, Bd. Art Foundation of Victoria 1977-; Fellow Australian Acad. of Science 1977-; *Leisure interests:* golf, fishing, *Address:* 22nd Floor, National Bank House, 500 Bourke Street, Melbourne, Vic. 3000 (Office); 11 Russell Street, Toorak, Vic. 3142, Australia (Home).

FORSTER, Isaac; Senegalese international judge; b. 14 Aug. 1903; ed. Lycée Hoche, Versailles, and Univ. of Paris; Gen. State Counsel's Dept. for French West Africa 1930; Deputy Judge, Dakar 1933; Deputy to Prosecutor, Conakry, Guinea 1933; Judge, St. Denis, Réunion, then Madagascar 1941; Judge of Court, Guadeloupe 1945, French West Africa 1947; Pres. of Chamber, Dakar 1957; Sec.-Gen. of Govt., Senegal 1958-60; Prosecutor-Gen., Dakar 1959; First Pres. Supreme Court of Senegal 1960-64; Judge, Int. Court of Justice, The Hague 1964-; assoc. mem. Inst. of Int. Law; numerous decorations. *Address:* International Court of Justice, Peace Palace, The Hague 2012, Netherlands.

FORTAS, Abe: American lawyer, government official and fmr. judge; b. 19 June 1910, Memphis, Tenn.; s. of William and Ray Fortas; m. Carolyn E. Agger 1935; ed. Southwestern Coll., Memphis, and Yale Univ.; Asst. Prof. of Law, Yale 1933-37; Asst. Chief, Legal Div., Agricultural Adjustment Admin. 1933-34; Asst. Dir. Corporate Reorganization Study, Securities and Exchange Comm. 1934-37; Consultant 1937-38; Asst. Dir. Public Utilities Div. 1938-39; Gen. Council, Public Works Admin. 1939-40, Bituminous Coal Div. 1939-41; Dir. Div. of Power, Dept. of Interior 1941-42; Under-Sec. of the Interior 1942-46; mem. law firm Arnold, Fortas and Porter, Washington, D.C. 1946-65; Judge, U.S. Supreme Court 1965-69; law practice 1969-. *Address:* 1200 29th Street, N.W., Washington, D.C. 20007, U.S.A. *Telephone:* 337-5700.

FORTE, Sir Charles, Kt., F.H.C.I.; British hotelier and caterer; b. 26 Nov. 1908, Monteforte Casalattico, Frosinone, Italy; s. of Rocco and Maria Luigia Forte; m. Irene Mary Chierico 1943; one s. five d.; ed. Alloa Acad., Dumfries Coll., and Mamiani, Rome; came to London and opened first milk bar 1935; acquired Criterion Restaurant 1953, Monico Restaurant, Café Royal, Slater and Bodega chain 1954, Hungaria Restaurant 1956, Waldorf Hotel 1958, Fuller's Ltd. 1959; Chair. Forte's (Holdings) Ltd., Les Grands Hôtels Associés Ltd., Paris, Hôtel George V, Paris; Deputy Chair. Trust Houses Forte Ltd. 1970-, Chief Exec. 1971-75, Joint Chief Exec. 1975-; Chair. Snamprogetti 1978-; Dir. TraveLodge Int. Inc., TraveLodge Australia; Dir. Forte's and Co. Ltd., Italian Int. Bank, London, Nat. Sporting Club, Theatre Restaurants Ltd., etc.; Consul-Gen. of San Marino in London; Pres. Italian Chamber of Commerce for Great Britain 1952-; mem. British Inst. of Florence, Italy; Bd. mem. British Travel Assen.; Grand Officer of the Order of the Italian Repub., Cavaliere di Gran Croce della Repubblica Italiana; Knight of Magistral Grace of Sovereign and Mil. Order of Malta. *Leisure interests:* literature, music, fishing, shooting. *Address:* 86 Park Lane, London, W.1, England.

FORTIER, Claude, C.C., M.A., M.D., PH.D., LL.D., F.R.C.P.(C.), F.R.S.C.; Canadian physiologist; b. 11 June 1921, Montreal, Canada; s. of Carolus Fortier and Flore-Edith Lanctôt; m. Elise Gouin 1953; four d.; ed. Univs. of Montreal, Lausanne and London; Lecturer in Neurophysiology, Univ. of Montreal 1947-51, Asst. Prof. of Experimental Medicine and Surgery 1950-52; Research Assoc., Dept. of Neuroendocrinology, Univ. of London 1953-55; Assoc. Prof. of Physiology and Dir. Lab. of Neuroendocrinology, Baylor Univ. Coll. of Medicine, Houston, Tex. 1955-60; Dir. Endocrine Labs., Laval Univ. 1960-, Prof. of Experimental Physiology 1961-, Chair. Dept. of Physiology 1964-; Vice-Chair. Medical Research Council of Canada 1965-67; Vice-Chair. Medical Research Advisory and Co-ordinating Cttees., Defence Research Bd. 1967-70; Chair. Advisory Cttee. on Medical Research, Govt. of Quebec 1968-70; Vice-Chair. Science Council of Canada 1975-78, Chair. 1978-; mem. Canadian Physiological Soc. (Pres. 1966-67), American Physiological Soc., New York Acad. of Sciences, A.A.A.S., etc.; Chair. of Bd. of Canadian Fed. of Biological Socs. 1973-74; Pres. Royal Soc. of Canada 1974-75; mem. Advisory Cttee. to Comm. on Canadian Studies 1973-, Advisory Council of the Order of Canada 1974-75; Trustee, Inst. for Research on Public Policy 1974-; and of several govt. agencies and editorial boards; Archambault Research Award of French Canadian Assen. for the Advancement of Sciences 1972; Science Award of Govt. of Quebec 1972; Companion Order of Canada 1970. *Publications:* over 200 publications in physiology and related subjects. *Leisure interests:* sailing, skiing. *Address:* Département de Physiologie, Faculté de Médecine, Université Laval, Quebec G1K 7P4; Science Council of Canada, 100 Metcalfe, Ottawa, Ontario K1P 5M1; 1014 De Grenoble, Ste-Foy, Quebec G1V 2Z9, Canada (Home). *Telephone:* 418-656-3259 (Quebec Office); 613-992-2097 (Ottawa Office); 418-653-9656 (Home).

FORTIER, Jean-Marie; Canadian ecclesiastic; b. 1 July 1920, Quebec; s. of Joseph Fortier and Alberta Jobin; ed. Petit Séminaire de Québec, Laval Univ., Univ. of Louvain, Belgium; History Teacher, Grand Séminaire de Québec 1950-60; Auxiliary Bishop of Ste.-Anne-de-la-Pocatière 1960; Bishop of Gaspé 1965; Archbishop of Sherbrooke 1968-; mem. Vatican's Sacred Congregation of Sacraments and Divine Worship 1975-. *Address:* Archevêché de Sherbrooke, C.P. 430, Sherbrooke, Quebec, Canada.

FORTNER, Wolfgang: German composer; b. 12 Oct. 1907, Leipzig; ed. Univ. of Leipzig and Leipzig Conservatory of Music; Lecturer Evangelical Church Music Inst., Heidelberg 1931-53; Prof. of Composition N.W. German State Acad. of Music, Detmold 1954-57, State High School for Music, Freiburg 1957-72; Dir. Musica Viva Munich 1964-78; Pres. German Section Int. Soc. for Contemporary Music; several awards; Dr. h.c. (Heidelberg, Freiburg). *Compositions:* Opera: Bluthochzeit 1957, In seinem Garten liebt Don Perlimphin Belisa 1962, Elisabeth Tudor; Ballet: Die weisse Rose 1953; Cantata: Die Pfingstgeschichte 1963; Orchestral works: Capriccio 1938, Sinfonie 1947, Phantasie über B-A-C-H 1950, Impromptus 1957, Triplum, Variations for chamber orchestra, Four

Quartets for Strings, Trio for piano, violin and 'cello, etc.; and many other works. *Address:* Mühltalstrasse 122D, 69 Heidelberg, Federal Republic of Germany. *Telephone:* 06221-40706.

FOSS, Lukas; American composer, conductor, pianist and professor of music; b. 15 Aug. 1922, Berlin, Germany; s. of Martin Fuchs and Hilda Schindler; m. Cornelia B. Brendel 1955; one s. one d.; ed. Lycée Pasteur, Paris, Curtis Inst. of Music, Yale Univ. Music School; Prof. of Conducting and Composition, Univ. of Calif. at Los Angeles 1951-62; Founder Dir. Center for Creative and Performing Arts, Buffalo Univ. 1963-; Musical Dir. Conductor Buffalo Philharmonic Orchestra 1962-70; Musical Adviser, Conductor Brooklyn Philharmonic Orchestra 1971-, Jerusalem Symphony Orchestra 1972-76; Dir., Conductor Ojai Festival, Calif. 1955, 1956, 1957, Festival of the Arts Today, Buffalo Philharmonic 1964, 1967, Franco-U.S. Festival 1964, Stravinsky Festival 1965; Visiting Prof. Harvard Univ. 1969-70, Manhattan School of Music 1972-73; mem. Nat. Inst. of Arts and Letters; Dr. h.c.; New York Music Critics' Circle Awards; Prix de Rome; Ditson Award 1974, and nine composition awards. *Compositions include:* Time Cycle, Echoi, Baroque Variations, Paradigm, Geod, Cave of the Winds, Orpheus, Map, Percussion Concerto, String Quartet, American Cantata. *Address:* 17 East 96th Street, New York, N.Y. 10028, U.S.A.

FOSSET, André; French politician and newspaper publisher; b. 13 Nov. 1918, Paris; s. of Emile and Suzanne (Brunel) Fosset; m. Genevieve Richard 1941; five c.; mem. of Municipal Council, Paris, and mem. Gen. Council, Seine 1945-59; mem. Senate 1958-76; Minister for the Quality of Life 1976; mem. Econ. and Social Council 1977, Senate 1977-; mem. European Parl.; Pres. and Man. Dir. Le Parisien Libere; Chevalier, Legion d'honneur. *Address:* Le Parisien Libere, 25 Avenue Michelet, 93300 Saint Ouen (Office); 25 avenue de l'Europe, 92310 Sèvres, France (Home). *Telephone:* 252-82-15 (Office); 626-42-06 (Home).

FOSTER, Kenneth C.; American insurance executive; b. 31 Jan. 1913, Augusta, Me.; s. of Earle Browne and Glenys Young Foster; m. Alice Good 1942; two d.; ed. Univ. of Maine, Columbia and Newark Univs.; with Prudential Insurance Co. of America 1938-, Dir. of Agencies 1947-50, Vice-Pres. 1950-58, Sr. Vice-Pres. 1958-65, Vice-Pres. in charge of Western operations 1965-66, Exec. Vice-Pres. 1967-70, Pres. and Dir. 1970-. *Publications:* articles in insurance handbooks and periodicals. *Leisure interests:* gardening, boating, golf. *Address:* The Prudential Insurance Co. of America, Prudential Plaza, Newark, N.J. 07101, U.S.A. *Telephone:* 201-336-1234.

FOSTER, Sir Robert Sidney, G.C.M.G., K.C.V.O., K.ST.J.; British official (retd.); b. 11 Aug. 1913, London; s. of the late Sidney Charles Foster and Jessie Edith (née Fry) Foster; m. Margaret Walker 1947; ed. Eastbourne Coll. and Peterhouse, Cambridge; Cadet, Northern Rhodesia Administrative Service 1936-38, Dist. Officer 1938-40; Mil. Service 1940-43; Dist. Officer, N. Rhodesia 1943-53, Senior Dist. Officer 1953-57, Provincial Commr. 1957-60, Sec., Native Affairs 1960-61; Chief Sec., Nyasaland 1961-63, Deputy Gov. 1963-64; High Commr., Western Pacific 1964-68; Gov. and C.-in-C. Fiji 1968-70, Gov.-Gen. 1970-72; Officier Légion d'honneur 1966. *Leisure interest:* do-it-yourself. *Address:* "Kenwood", 16 Ardnave Crescent, Southampton, Hants., SO1 7FJ, England. *Telephone:* Southampton 769412.

FOSTER-SUTTON, Sir Stafford William Powell, Kt., K.B.E., C.M.G., O.B.E. MIL., Q.C.; British lawyer; b. 24 Dec. 1898, Philadelphia, U.S.A.; s. of G. W. Foster-Sutton and Florence Mary Sutton; m. Linda Dorothy Allwood 1919; one s. (deceased) one d.; ed. St. Mary Magdalen School and private tutor; served in army 1914-26; active service R.F.C. and R.A.F. First World War 1914-18; called to the Bar (Gray's Inn) 1926; private practice 1926-36; Solicitor-Gen. Jamaica 1936; Attorney-Gen. Cyprus 1940; Col. Commdg. Cyprus Volunteer Force and Inspector Cyprus Forces 1941-44; mem. for Law and Order and Attorney-Gen. Kenya 1944-48, Acting Gov. Aug.-Sept. 1947; Attorney-Gen. Malaya 1948-50; Chief Justice Fed. of Malaya 1950; Officer Administering the Govt., Fed. of Malaya Sept.-Dec. 1950; Pres. West African Court of Appeal 1951-56; Chief Justice, Fed. of Nigeria 1956-58; Act. Gov.-Gen. May-June 1957; Pres. Pensions Appeal Tribunals for England and Wales 1958-73; Chair. Zanzibar Comm. of Inquiry 1961, Regional Boundaries and Constituencies Delimitation Comms., Kenya 1962, Referendum Observers, Malta 1964, Council of Britain/Nigeria Assen., Exec. Cttee. Overseas Service Pensioners' Assen. *Address:* 7 London Road, Saffron Walden, Essex, England. *Telephone:* Saffron Walden 22246 (Home).

FOSTERVOLL, Alf Jakob; Norwegian politician; b. 20 Jan. 1932, Kristiansund; s. of Alv Kr. and Astrid Fostervoll; m. Gerd Klinge 1967; two s.; ed. Teachers' Coll. of Norway; teacher, Gomalandet School, Kristiansund 1956-57, Headmaster 1967; mem. Kristiansund Municipal Council, Alderman 1960-, Deputy Chair. 1967-69; mem. Møre and Romsdal County Council 1967; mem. Bd. Møre and Romsdal County Steamship Co. 1967; mem. Storting 1969-77; Chair. Nordmøre Labour Party 1965-69; Minister of Defence 1971-72, 1973-76; Cttee. of Municipal Affairs and Environment Protection. *Address:* Møretun, 6400 Molde, Norway. *Telephone:* (072) 54111 (Office); (072) 51560 (home).

FOU TS'ONG; Chinese pianist; b. 10 March 1934; m. 1st Zamira Menuhin 1960 (dissolved 1970), 2nd Hijong Hyun 1973; ed. Shanghai and Warsaw; first performance, Shanghai 1953, concerts in Eastern Europe and U.S.S.R. 1953-58; London debut 1959, concerts in Europe, North and South America, Australia and Far East. *Address:* 62 Aberdeen Park, London, N5 2BL, England.

FOUCHÉ, Jacobus Johannes, D.M.S.; South African politician; b. 6 June 1898, Wepener, O.F.S.; s. of Jacobus Johannes Fouché and Maria Elizabeth (née Steynberg); m. Letta Rhoda McDonald 1920; one s.; ed. Victoria Coll., Stellenbosch; M.P. for Smithfield 1941-50, for Bloemfontein West 1960-68; Admin., Orange Free State 1951-59; Minister of Defence 1959-66, of Agricultural Technical Services and Water Affairs 1966-68; State Pres. of S. Africa 1968-75; Hon. D.Phil. (Stellenbosch) 1966; Decoration for Meritorious Service 1971. *Leisure interest:* farming. *Address:* 9 De Jongh Street, Strand 7140, Republic of South Africa. *Telephone:* Strand 3-6040.

FOUCHET, Paul Jacques; French diplomatist: b. 25 Jan. 1913; ed. Lycée Condorcet and Faculty of Law, Paris; French Consulate, Addis Ababa 1938-39, Third Sec. Ankara 1941, French Consulate, Baghdad 1941-42, resgnd. 1942; recalled by Vichy Govt. 1943, Civil and Mil. Command, Algeria 1943; Allied Mil. Govt., Italy 1943-44, mem. French Del. to Consultative Council on Italian Affairs 1944-45, Consul, Milan 1945-46; Office of Foreign Affairs, Paris 1946-47; First Sec. New Delhi 1947-49; mem. French Del. to UN Special Comm. on Balkans 1949-50; First Sec. Athens 1950-52, Second Counsellor, Vienna 1954-59; Head of Dept. for Technical Co-operation 1959-62; Amb. to Niger 1962-64, to Dominican Repub. 1964-66, to Libya 1966-69; Deputy Gen. Dir., Cultural, Scientific and Technical Dept., Ministry of Foreign Affairs 1969-71; Amb. to Brazil 1972-75, to Sweden 1975-78; Officier Légion d'honneur. *Address:* 2 rue de Noisel, Paris 16e, France.

FOULKES, Nigel Gordon, M.A., F.B.I.M., F.R.S.A.; British business executive; b. 29 Aug. 1919, London; ed. Gresham's School and Balliol Coll., Oxford. Production Man., H. P. Bulmer & Co., Ltd. 1947-51; Man. Consultant, P.E. Consulting Group Ltd. 1951-56; Sr. Personnel Officer, Birfield Ltd. 1957-58; Dir. Greaves and Thomas Ltd. 1959-61; Exec. Asst. to Chair., Int. Nickel Ltd. 1961-64; Man. Dir. Rank Xerox Ltd. 1964-70; Chair. F.O.B.A.S. Ltd. 1970-76, British Airports Authority 1972-77, Civil Aviation Authority 1977–; fmr. Chair. Airline Users Cttee.; Dir. Imagic Holdings 1971-77, Charterhouse Group 1972, Bekaert Group (Belgium) 1973, Council, British Inst. of Man. 1972-77, Stone-Platt Industries 1975; mem. CBI Pres.'s Cttee. 1976-77; mem. Court, Brunel Univ., London 1975. *Address:* Civil Aviation Authority, CAA House, Kemble Street, Kingsway, London, WC2B 6TE, England. *Telephone:* 01-379 7311.

FOURCADE, Jean-Pierre; French politician: b. 18 Oct. 1929, Marmande; s. of Raymond and Germaine (née Raynal) Fourcade; m. Odile Mion 1958; one s. two d.; ed. Coll. de Sorèze, Bordeaux Univ. Faculté de Droit, Inst. des Etudes politiques; student, Ecole Nat. d'Admin. 1952-54; Insp. des Finances 1954-73; Chargé de Mission to Sec. of State for Finance (later Minister of Finance) 1959-61, Conseiller technique 1962, Dir. adjoint du Cabinet 1964-66; Asst. Head of Service, Inspection gén. des Finances 1962; Head of Trade Div., Directorate Gen. of Internal Trade and Prices 1965, Dir.-Gen. 1968-70; Asst. Dir.-Gen. Crédit industriel et commercial 1970, Dir.-Gen. 1972-74, Admin. 1973-74; Admin., later Pres. and Dir.-Gen. Soc. d'Epargne mobilière 1972-74; Admin. Banque transatlantique 1971-74, Soc. commerciale d'Affrètement et de Combustibles 1972-74; Minister of Econ. and Finance 1974-76, of Supply 1976-, of Supply and Regional Devt. 1977; Mayor of Saint-Cloud 1971-; Conseiller gén., canton of Saint-Cloud 1973-; Conseiller Régional, Ile de France 1976; Senator, Hauts de Seine 1977; Pres. Clubs Perspectives et Réalités 1975-; Vice-pres. Union pour la Démocratie Française 1978-; Officier, Ordre Nat. du Mérite. *Address:* Sénat, Palais du Luxembourg, 75006 Paris; 8 Parc de Bearn, 92210 Saint-Cloud, France (Home).

FOUREST, Henry-Pierre; French ceramist; b. 22 Dec. 1911, Paris; s. of Georges Fourest and Valentine Fourest (née Noe); m. Françoise Labayle-Paranaud 1946; one s. three d.; ed. Ecole du Louvre and Institut d'Art et Archéologie. Asst. Dept. of Paintings, Musée du Louvre; Asst. in Musée Ceramique de Sèvres; Chief Curator of Musée Nat. Céramique de Sèvres, Musée Nat. Adrien

Dubouché; Lecturer Ecole Nationale Supérieure Céramique de Sèvres; fmr. Prof. Ecole du Louvre; Pres. Assen. de l'Ecole du Louvre; Chevalier Légion d'honneur, Officier des Arts et des Lettres, Officier Ordre nationale du Mérite. *Leisure interests:* music, ichthylogy. *Address:* 16 rue de Liège, Paris 9e, France. *Telephone:* 874-19-81.

FOURIE, Bernardus Gerhardus, M.A., B.COM.; South African diplomatist; b. 1916, Wolmaransstad; s. of N. P. Fourie; m. Daphne Madeleine Doyle 1962; one s. one d.; ed. Pretoria and New York Univs; on staff of Berlin Embassy 1939, Brussels 1940, London High Comm. 1939, 1940-45; Del. to San Francisco Conf. 1945, UN Prep. Comm. and 1st Gen. Assembly 1946; with Dept. of External Affairs Int. Orgs. Div. 1952-57, Asst. Sec. African Div. 1957-58; Perm. Rep. to UN 1958-62; Under Sec. African Div., Dept. of Foreign Affairs 1962-63; Sec. for Information 1963-66; Sec. for Foreign Affairs 1966-. *Leisure interests:* tennis, gardening. *Address:* Department of Foreign Affairs, Union Buildings, Private Bag X141, Pretoria, Republic of South Africa. *Telephone:* Pretoria 48-6912.

FOURNIER, Pierre Léon Marie; French concert cellist and teacher; b. 24 June 1906, Paris; s. of Gen. Gaston Fournier and Gabrielle (née Morice) Fournier; m. Lydia Antik 1936; one s.; ed. Coll. Saint-Louis-de-Gonzague, Conservatoire nat. supérieure de musique; Prof., Ecole normale de musique 1937-39, Conservatoire nat. supérieure de musique 1941-49; concert tours in Europe, North and South America, South Africa and Far East 1946-66; has transcribed numerous works for cello; Officier de la Légion d'honneur, Commdr. de l'Ordre national du Mérite, Officier des Arts et des Lettres, Commdr. de l'Ordre de Léopold II. *Address:* 14 parc Château-Banquet, 1202 Geneva, Switzerland.

FOURNIER-ACUÑA, Fernando, LL.D.; Costa Rican lawyer and diplomatist; b. 13 Sept. 1916, San José; ed. Univ. de Costa Rica and Harvard Univ.; founding mem. Facio, Fournier & Cañas (law firm), San José 1942-; Prof. of History of Law, Univ. de Costa Rica 1947-48; Prof. of Roman Law 1959-; mem. Constituent Assembly 1949-; Deputy Minister of Foreign Affairs 1953-54; Minister 1955; Amb. to U.S.A. and Perm. Rep. to OAS 1955-56; Del. Inter-American Council of Jurists 1961; mem. Exec. Cttee. Inter-American Fed. of Lawyers 1961-69, Pres. 1967; mem. Int. Acad. of Trial Lawyers 1969-. *Address:* Facultad de Derecho, Universidad de Costa Rica, Apartado 3979, San José, Costa Rica.

FOURQUET, Gen. Michel Martin Léon; French air force officer and administrator; b. 9 June 1914, Brussels, Belgium; m. Micheline Roger 1939; five c.; ed. Lycée Louis-le-Grand and Ecole Polytechnique, Paris. Air Force Officer 1943-44; Commdt. First Tactical Air Group 1960-61, 5th Air Region, Algiers 1961-62; Chief Commdt. Forces in Algeria 1962; Sec.-Gen. of Nat. Defence 1962-66; Perm. Under-Sec. for Armaments 1966-68; Chief of Staff of Armed Forces 1968-71; mem. Higher Air Council 1962-68; mem. Atomic Energy Cttee. 1966-71; Pres. Supervisory Council Soc. Nat. Industrielle Aérospatiale 1973-75; Pres. and Dir. Gen. Soc. des Autoroutes Paris-Est-Lorraine 1972-; Pres. Groupement pour le Financement de Fos 1972-; Pres., Dir.-Gen. Office Gén. de l'Air; Grand Croix Légion d'honneur, Compagnon de la Libération, Croix de guerre, Croix de la Valeur militaire, Médaille de l'Aéronautique, D.F.C. (U.K.), etc. *Leisure interests:* riding, hunting. *Address:* 5 Villa Sainte-Foy, 92200 Neuilly-sur-Seine, France.

FOWDEN, Leslie, PH.D., F.R.S.; British plant chemist; b. 13 Oct. 1925, Rochdale, Lancs.; ed. Univ. Coll., London; mem. Scientific Staff, Human Nutrition Research Unit, Medical Research Council 1947-50; Lecturer in Plant Chem., Univ. Coll., London 1950-55, Reader 1956-64, Prof. of Plant Chem. 1964-73 and Dean of Faculty of Science 1970-73; Dir. Rothamsted Experimental Station 1973-; mem. Council of Royal Soc. 1970-72. *Address:* Rothamsted Experimental Station, Harpenden, Herts., (Office); 7 Ferncroft, 15 Basire Street, London, N.1; and 1 West Common, Harpenden, Herts., England (Homes).

FOWLER, Edward Michael Coulson, M.ARCH., F.N.Z.I.A., A.R.I.B.A.; New Zealand architect; b. 19 Dec. 1929, Marton; s. of William Coulson and Faith Agnes Fowler (née Netherclift); m. Barbara Hamilton Hall 1953; two s. one d.; ed. Christ's Coll., Christchurch, Auckland Univ.; with Ove Arup & Partners, London 1954-55; Partner, Gray Young, Morton Calder & Fowler, Wellington 1959; Sr. Partner, Calder, Fowler & Styles 1965-; travelled abroad to study cen. banking systems security methods; work includes Overseas Terminal, Wellington, Reserve Bank, Wellington, Dalmuir House, Wellington Club, office bldgs., factories, houses, churches; mem. Wellington City Council 1968-; Chair. NZIA Educ. Cttee. 1967-73; Mayor of Wellington 1974-. *Publications:* Country Houses of New Zealand 1972, Wellington Sketches: Folios I, II 1973. *Leisure interests:* sketching, writing. *Address:* Calder, Fowler, Styles & Partners, P.O. Box 2692, Wellington, (Office); 31 Hobson Crescent, Thorndon, Wellington, New Zealand (Home). *Telephone:* 726916 (Office); 721117 (Home).

FOWLER, Henry Hamill, A.B., LL.B., J.S.d.; American lawyer, investment banker and government official; b. 5 Sept. 1908, Roanoke, Va.; s. of Mack Johnson Fowler and Bertha (née Browning) Fowler; m. Trudye Pamela Hathcote 1938; one s. (deceased) two d.; ed. Roanoke Coll. and Yale Univ.; admitted to Virginia Bar 1933, D.C. Bar 1946; Counsel Tennessee Valley Authority 1934-38, Asst. Gen. Counsel 1939; Asst. Gen. Counsel O.P.M. 1941, War Production Bd. 1942-44; Econ. Adviser, U.S. Mission Econ. Affairs, London 1944; served Foreign Econ. Admin. 1945; Administrator Nat. Production Authority 1951-52; Administrator Defense Production Admin.; Dir. Office of Defense Mobilization and mem. Nat. Security Council 1952-53; senior mem. law firm, Fowler, Leva, Hawes and Symington, Washington D.C., 1946-51, 1953-61, 1964-65; Under-Sec. U.S. Treasury 1961-64, Sec. 1965-68; Gen. Partner Goldman, Sachs, New York 1969-; Dir. Corning Glass Works, U.S. Industries Inc., U.S. & Foreign Securities, Norfolk and Western Railway Co., Foreign Policy Assen., Japan Soc.; Chair. Inst. of Int. Educ., U.S. Treasury Advisory Cttee. on Reform of Int. Monetary System, Atlantic Council of the U.S.; Trustee, Alfred P. Sloan Foundation, Carnegie Endowment for Peace, Roanoke Coll.; Democrat. *Leisure interests:* tennis, bridge, books. *Address:* Goldman, Sachs & Co., 55 Broad Street, New York, N.Y. 10004 (Office); 209 South Fairfax Street, Alexandria, Va., and 200 East 66th Street, New York, N.Y. 10021, U.S.A. (Homes). *Telephone:* 676-8322 (Office).

FOWLER, Peter Howard, D.SC., F.R.S.; British physicist; b. 27 Feb. 1923, Cambridge; s. of Sir Ralph Howard Fowler, F.R.S. and Eileen Rutherford; m. Rosemary Hempson (née Brown) 1949; three d.; ed. Winchester Coll. and Univ. of Bristol. Flying Officer in R.A.F., Radar and Tech. Officer 1942-46; Asst. Lecturer in Physics, Univ. of Bristol 1948, Lecturer 1951, Reader 1961, Royal Soc. Research Prof. 1964-; Visiting Prof. Univ. of Minn. 1956-57; Hughes Medal, Royal Soc. 1974. *Publications:* co-author: The Study of Elementary Particles by the Photographic Method 1959. *Leisure interests:* gardening, meteorology. *Address:* H. H. Wills Physics Laboratory, Tyndall Avenue, Bristol, BS8 1TL, England. *Telephone:* Bristol 24161, Ext. 113.

FOWLER, Sir Robert William Doughty, K.C.M.G.; British diplomatist; b. 6 March 1914, Sutton-in-Ashfield, Notts.; s. of William and Martha Louise Fowler; m. Margaret MacFarquhar MacLeod 1939; one s. one d.; ed. Queen Elizabeth's Grammar School, Mansfield and Emmanuel Coll., Cambridge; Burma Civil Service 1937-48, Military Admin., Burma Army 1944-46; Additional Sec. to Gov. of Burma 1947; Commonwealth Relations Office (C.R.O.) 1948; mem. U.K. Del. to UN 1950-53; Head of Fed. of Rhodesia and Nyasaland and High Comm. Territories Dept., C.R.O. 1954-56; Deputy High Commr. Pakistan 1956-58, Canada 1960-62, Nigeria 1963-64; High Commr. in Tanzania 1964-66; Under-Sec. (African Affairs) Commonwealth Office 1966; Amb. to Sudan 1966-67; Referendum Admin., Gibraltar Sept.-Oct. 1967; Amb. to Sudan 1968-70; Panel of Chairmen, Civil Service Selection Board, London 1972–. *Leisure interests:* photography, painting. *Address:* 7 Leicester Close, Henley-on-Thames, Oxfordshire, England. *Telephone:* Henley 2404.

FOWLER, William Alfred, B.ENG.PHYSICS, PH.D.; American professor of physics; b. 9 Aug. 1911, Pittsburgh, Pa.; s. of late John McLeod and of Jennie Summers (née Watson) Fowler; m. Ardiane Foy Olmsted 1940; two d.; ed. Ohio State Univ. and Calif. Inst. of Technology; Research Fellow in Nuclear Physics, Calif. Inst. of Technology 1936-39, Asst. Prof. of Physics 1939-42, Assoc. Prof. 1942-46, Prof. 1946-70; Inst. Prof. of Physics 1970-; Research Staff mem., Section T, and Div. 4, Nat. Defense Research Cttee. (N.D.R.C.) 1941, Asst. Dir. of Research, Section L, Div. 3, N.D.R.C. 1941-45; Technical Observer, Office of Field Services and New Devts. Div., War Dept. in South and Southwestern Pacific Theaters 1944; Act. Supervisor, Ord. Div., R and D NOTS 1945; Science Dir., Project Vista, Dept. of Defense 1951-52; Walker-Ames Prof. of Physics, Univ. of Wash. 1963; Visiting Prof. of Physics, Mass. Inst. of Technology 1966; Fulbright Lecturer and Guggenheim Fellow, Univ. of Cambridge 1954-55, Guggenheim Fellow, St. John's Coll. and Dept. of Applied Maths. and Theoretical Physics, Univ. of Cambridge 1961-62, Visiting Fellow, Inst. of Theoretical Astronomy, Univ. of Cambridge 1968, 1969, 1970, 1971, 1972; Lecturer at numerous univs. and socs. in U.S. and abroad; Chair. Joint Discussion on Nucelogenesis 10th Gen. Assembly in Int. Astronomical Union, Moscow 1958; del. to numerous int. confs. on astronomy, nuclear physics, astrophysics and cosmology; mem. Int. Astronomical Union, A.A.A.S., American Astronomical Soc., Ameri-

can Assn. of Univ. Profs. (Pres. Calif. Inst. of Technology Chapter 1963-67), Nat. Acad. of Sciences (Chair. Physics Section 1971-74), B.A.A.S., Royal Soc. of Arts, etc.; Chair. Int. Soc. on Gen. Relativity and Gravitation 1974-; mem. Nat. Science Bd., Nat. Science Foundation 1968-74, Space Science Bd.; Corresp. mem. Soc. Royale des Sciences de Liège, Atheneum, Pasadena; Fellow, American Physical Soc. (mem. Bd. of Eds. 1953-55, of Council 1958-61, Vice-Pres. 1975, Pres. 1976), American Acad. of Arts and Sciences, Royal Astronomical Soc., London, Assoc. 1975; Hon. D.Sc. (Univ. of chicago) 1976; Naval Ordnance Devt. Award 1945, Medal for Merit 1948, Lamme Medal, Ohio State Univ. 1952, Liège Medal, Univ. of Liège 1955, Calif. Co-Scientist of the Year 1958, Barnard Medal of Meritorious Service to Science, Columbia Univ. 1965, Apollo Achievement Award, NASA 1969, Bonner Prize, American Physical Soc. 1970; G. Unger Vetlesen Prize, Columbia Univ. 1973, Nat. Medal of Science 1974, Eddington Medal, Royal Astronomical Soc. 1978. *Publications:* Contributions to numerous scientific books and journals. *Address:* Kellogg Radiation Laboratory, California Institute of Technology, 1201 E. California Boulevard, Pasadena, Calif. 91125, U.S.A. *Telephone:* 213-795-6841, Ext. 1272.

FOWLES, John; British author; b. 31 March 1926, Essex; s. of Robert J. Fowles and Gladys M. Richards; m. Elizabeth Whitton 1954; no c.; ed. Bedford School and Univ. of Oxford; PEN Silver Pen Award 1969, W. H. Smith Literary Award (for The French Lieutenant's Woman) 1969. *Publications:* The Collector 1963, The Aristos 1964, The Magus 1965, The French Lieutenant's Woman 1969, The Ebony Tower 1974, Daniel Martin 1977, Islands (with Fay Godwin) 1978. *Leisure interests:* gardening, natural history. *Address:* c/o Anthony Shiel Associates Ltd., 2/3 Morwell Street, London, W.C.1, England.

FOX, Bertrand, PH.D.; American economist; b. 28 Feb. 1908, Williams Bay, Wis.; s. of Philip Fox and Ethel L. Snow; m. 1st Mary K. Ziegler 1935 (divorced 1950), 2nd Patricia N. O'Neill 1951; four s. two d.; ed. Northwestern Univ. and Harvard Univ.; Instructor and Tutor in Econs., Harvard Univ. 1931-35; Asst. Prof. of Econs., Williams Coll. 1935-40, Assoc. Prof. 1940-45; Dir. Mil. Div., War Production Bd. 1941-45; Prof. of Econs., Williams College 1945-49; Admin., Merrill Foundaton 1947-62; Edsel Bryant Ford Prof. of Business Admin., Harvard Business School 1955-67, Dir. of Research 1953-68, Jacob H. Schiff Prof. of Investment Banking 1967-74; Research Dir. and Chief of Staff, Comm. on Money and Credit 1958-61; Dir. Eberstadt Fund 1966-73, Harvard Univ. Press 1966-74, Surveyor Fund 1973-, Cambridge Research Inst. 1971-, Chemical Fund 1971-, Moore McCormack Resources 1974-; mem. American Finance Assen., American Econ. Assen. *Publication:* Monetary and Fiscal Policy 1919-1939 1948. *Address:* Cambridge Research Institute, 15 Mount Auburn Street, Cambridge, Mass. 02138; 12 Hayes Avenue Lexington, Mass. 02173, U.S.A. (Home). *Telephone:* 617-862-3965.

FOX, Sir (Henry) Murray, G.B.E., M.A., D.LITT.; British chartered surveyor; b. 7 June 1912; s. of Sir Sidney Fox; m. Helen Isabella Margaret Crichton; one s. two d.; ed. Malvern and Emmanuel Coll., Cambridge; Consultant, Chestertons; Chair. Trehaven Trust Group, City and Metropolitan Bldg. Soc. 1976-; Dir. Robert Marriott Ltd., Toye, Kenning and Spencer Ltd.; Man. Trustee, Municipal Mutual Insurance Ltd.; Sheriff, City of London 1971-72; Lord Mayor of London 1974-75. *Leisure interests:* golf, walking, reading. *Address:* Compter House, 9 Wood Street, London, E.C.2 (Office); Flat 2, 45 Beech Street, London, E.C.2; Bradden Lodge, Bradden, Nr. Towcester, Northants., England (Homes). *Telephone:* 01-606 3055 (Office).

FOY, Lewis Wilson; American steel executive; b. 8 Jan. 1915, Somerset County, Pa.; s. of George M. and Nellie (Speicher) Foy; m. Marjorie Werry 1942; two d.; ed. Duke Univ., George Washington Univ. and Lehigh Univ.; served U.S. Army 1941-46; joined Bethlehem Steel Corpn. 1936, Buyer 1950-52, Asst. to Purchasing Agent 1952-55, Asst. Purchasing Agent 1955-61, Asst. to Vice-Pres. (Purchasing) 1961-63, Vice-Pres. Purchasing 1963-70, Dir. 1963-, Exec. Vice-Pres. 1970, Pres. 1970-74, Chair. and Chief Exec. Officer 1974-; Dir. J. P. Morgan & Co. Inc., Morgan Guaranty Trust Co. of New York, Brinco Ltd., Bituminous Coal Operators Assen., American Iron & Steel Inst., Int. Iron and Steel Inst., United Negro Coll. Fund, Goodyear Tire and Rubber Co.; Chair. American Iron and Steel Inst.; Trustee. Moravian Coll., and Council of the Americas; mem. Newcomen Soc. in N. America, Business Council, Econ. Club of New York, Business Roundtable, Pennsylvania Soc., Board of Govs. United Way of America; Hon. LL.D. (Moravian Coll. and Lehigh Univ.), Hon. D.C.L. (Univ. of Liberia); Knight Great Band, Humane Order of African Redemption (Liberia). *Address:* Martin Tower, Bethlehem, Pa. 18016 (Office); The Elms, Saucon Valley Road, R.D. 4 Bethlehem, Pa., 18015, U.S.A. (Home). *Telephone:* (215) 694-2424 (Office).

FOYER, Jean, D. EN D.; French politician; b. 27 April 1921; Prof., Paris Univ.; Deputy for Maine-et-Loire, Mayor of Contigné; Sec. of State for Relations with Mem. States of the French Community (Debré Cabinet) 1960; Minister of Co-operation 1961-62, of Justice 1962-67; Pres. Nat. Assembly Comm. on Constitutional Laws of Legislation and Gen. Admin. of the Repub. 1968-72, 1973-; Minister of Public Health 1972-73; Pres. Conseil Supérieur de la Propriété Industrielle 1976-; Chevalier du Mérite agricole. *Address:* 49 Contigné (Maine-et-Loire), France.

FOYLE, Christina Agnes Lilian; British bookseller; b. 1911; d. of the late William Foyle; m. Ronald Batty 1938; ed. Parliament Hill School and Aux Villas Unspunnen, Switzerland; entered book trade 1928; began Foyle's Literary Luncheons 1930; Man. Dir. W. & G. Foyle Ltd., Foyle's Libraries Ltd. 1963-, Dir. John Gifford Ltd., Foyle's Gallery, The Book Club, Foyle's Literary Luncheons. *Address:* W & G. Foyle Ltd., 121 Charing Cross Road, London, W.C.2; Beeleigh Abbey, Maldon, Essex, England.

FRAENKEL, Gottfried Samuel, PH.D.; American professor of entomology; b. 23 April 1901, Munich, Germany; s. of Dr. Emil Fraenkel and Flora (née Weil); m. Rachel Sobol 1928; two s.; ed. Univ. of Munich; Fellow Int. Educ. Board (Rockefeller Foundation) Zoological Station, Naples 1926-27; Asst., Hebrew Univ., Jerusalem 1928-30; Privatdozent, Zoology, Univ. of Frankfurt-am-Main 1931-33; Research Assoc., Univ. Coll., London 1933-35; Lecturer, Imperial Coll. of Science and Technology, London 1936-48; Prof. of Entomology, Univ. of Ill. 1948-; mem. Nat. Acad. of Sciences; Hon. Fellow, Royal Entomological Soc., London; Research Career Award, Nat. Insts. of Health 1962-72. *Publications:* The Orientation of Animals (with D. L. Gunn) 1940, Decorative Title Pages of Music, 200 Examples from 1500 to 1800 1968; about 200 scientific papers in learned journals, mostly on subjects concerning the physiology of insects. *Leisure interests:* working-travel, marine biological laboratories, the Mediterranean, playing chamber music, singing madrigals, old editions of music, old engravings. *Address:* Department of Entomology, University of Illinois, Urbana, Ill. 61801; 606 W. Oregon, Urbana, Ill. 61801, U.S.A. (Home). *Telephone:* 217-333-3736 (Office); 217-344-6581 (Home).

FRAGA IRIBARNE, Manuel: Spanish writer, diplomatist and politician; b. 23 Nov. 1922, Villalba, Lugo; m. Maria del Carmen Estévez 1948; two s. three d.; ed. Santiago and Madrid Univs.; Prof. of Political Law, Valencia Univ. 1945; Diplomatic Service 1945-; Prof. Theory of State and Constitutional Law, Madrid Univ. 1948–; Gen. Sec. Inst. of Hispanic Culture 1951; Gen. Sec. Nat. Educ. Ministry 1955; Dir. Inst. of Political Studies 1961; Minister of Information and Tourism 1962-69; also Sec.-Gen. of Cabinet 1967-69; Amb. to U.K. 1973-75; Minister of the Interior and Deputy Premier for Internal Affairs 1975-76; founded Alianza Popular 1976; mem. Cttee. for Defence of Christian Civilization, Union of Family Orgs. *Publications:* thirty books on press, art, constitutional and social subjects. *Leisure interests:* hunting, fishing. *Address:* M. Ibañez Martin, 5 Madrid 3, Spain. *Telephone:* 2-44-21-32.

FRAME, Alistair Gilchrist, M.A., F.ENG.; British company executive; b. 3 April 1929, Glasgow; s. of Alexander and Mary (Fraser) Frame; m. 1953; one d.; ed. Glasgow and Cambridge Univs.; Dir., Reactor and Research Groups, UKAEA 1963-68; joined Rio Tinto Zinc Corpn. 1968, later Dir. and Deputy Chief Exec. 1976, Chief Exec. and Joint Deputy Chair. 1978-; Dir. Plessey Telecommunications Ltd., Nat. Enterprise Board 1978-; Royal Soc. Esso Energy Award 1978. *Publications:* some papers to learned insts. *Leisure interests:* walking, watching rugby, gardening. *Address:* 13 Montpelier Place, London S.W.7; Birdlands, Holmbury St. Mary, Surrey, England (weekend). *Telephone:* 01-581 1796 (London); 0306-730024 (Surrey).

FRAME, Janet; New Zealand writer; b. 1924, Dunedin; ed. Oamaru North School, Waitaki Girls' High School, Dunedin Training Coll. and Otago Univ.; Hubert Church Award for New Zealand Prose; New Zealand Scholarship in Letters 1964, Burns Fellow, Otago Univ., Dunedin. *Publications:* Lagoon 1951, Owls do Cry 1957, Faces in the Water 1961, The Edge of the Alphabet 1962, Scented Gardens for the Blind 1963, The Reservoir (stories), Snowman, Snowman (fables), The Adaptable Man 1965, A State of Siege 1967, The Pocket Mirror (poetry), Yellow Flowers in the Antipodean Room 1968, Mona Minim and the Smell of the Sun (children's book) 1969, Intensive Care (novel) 1971, Daughter Buffalo (novel) 1972. *Address:* 276 Glenfield Road, Auckland 10, New Zealand.

FRANÇA, José-Augusto, D. ès L., D.HIST.; Portuguese writer and art historian; b. 16 Nov. 1922, Tomar; s. of José M. França and Carmen R. França; m. 2nd Marie-Thérèse Mandroux; one d. (by previous marriage); ed. Lisbon Univ., Ecole des Hautes Etudes and Univ. of Paris; travels in Africa, Europe and Americas 1945-; Ed.

Lisbon literary review Unicornio 1951-56, Co-ed. Cadernos de Poesia 1951-53; Founder-Dir. Galeria de Marco, Lisbon 1952-54; art critic 1946-; film critic 1948-; lexicographical publisher 1948-58; lived in Paris 1959-63; Editor Pintura [illegible] Näo 1969-70; Editor Colóquio Artes 1970-; Prof. Cultural History and History of Art, Dir. Dept. of Art History, New Univ. of Lisbon 1974-; Vice-Pres. Int. Assen. of Art Critics 1970-73, Pres. Acad. Nacional Belas Artes, Lisbon 1977-; City Councillor, Lisbon 1974-75; Pres. Inst. Cultura Portuguesa 1976-; mem. Int. Assen. of Art Critics, Int. Cttee. of Art History, PEN Club, Academia Nacional de Belas Artes, Acad. das Ciencias de Lisboa, Acad. Portuguesa de Historia; Chevalier Ordre des Arts et Lettres (France); Commdr. Ordem Rio Branco (Brazil). *Publications:* Natureza Morta (novel) 1949, Charles Chaplin—the Self-Made Myth (essay) 1952, Azazel (play) 1957, Amadeo de Souza-Cardoso (essay) 1957, Despedida Breve (short stories) 1958, Situação da Pintura Ocidental (essay) 1959, Da Pintura Portuguesa (essays) 1960, Dez Anos de Cinema (essays) 1960, Une ville des lumières: La Lisbonne de Pombal (essay) 1963, A Arte em Portugal no Século XIX (essay) 1967, Oito Ensaios sobre Arte Contemporânea (essays) 1967, Le romantisme [illegible] Portugal (essay) 1972, Almada, o Português sem Mestre (essay) 1972, A Arte [illegible] Sociedade Portuguesa no Sêculo XX (essay) 1972, Antonio Carneiro (essay) 1973, A Arte [illegible] Portugal no século XX (essay) 1974, Zé Povinho (essay) 1975, Manolo Millares 1977. *Leisure interests:* travel and detective stories. *Address:* Mailing address: Rua Escola Politecnica 49/4 Lisbon 2; Fundacão C. Gulbenkian, Avenida Berne, Lisbon 1, Portugal; 9 Villa Virginie, Paris 75014, France. *Telephone:* 362028 (Lisbon); 540-49-19 (Paris)

FRANCESCATTI, Zino; French concert violinist; b. 9 Aug. 1902, Marseilles; m. Yolande Potel de la Brière 1930; ed. privately; has played with most of the world's leading orchestras; frequently mem. of jury in int. musical contests; Hon. mem. Paris Conservatoire Orchestra, Philadelphia Orchestra, etc.; Commdr. Légion d'honneur 1975, Commdr. de l'Ordre de Léopold de Belgique 1967, Commdr. de l'Ordre des Arts et des Lettres. *Leisure interests:* chess problems, stamp collecting, driving, gardening. *Address:* Salle Pleyel, 252 rue du Faubourg-Saint-Honoré, Paris 8e; Summer Residence: La Ciotat-13, France; and 165 West 57th Street, New York, N.Y., U.S.A.

FRANCFORT, Pierre Jean; French diplomatist; b. 28 Oct. 1908, Paris; m. Nadine Labey 1946; two s. [illegible] d.; ed. Lycée Carnot and Ecole des Sciences politiques. Third Sec., Peking 1935, Madrid 1938-39; with Free French Govt. in London 1942-45, Counsellor, London 1945-48, Moscow 1948-50, Washington 1951-53; Minister, Romania 1954-57; Private Sec. to Minister for Foreign Affairs 1957-58; at Ministry of Foreign Affairs 1960-62; Amb. to Hungary 1962-65, to Yugoslavia 1965-70, to Sweden 1970-72; Ministry of Foreign Affairs; Officier Légion d'honneur. *Leisure interest:* history of art. *Address:* 31 Rue de Bellechasse, 75007 Paris, France. *Telephone:* 555-08-47.

FRANCIS, Sir Frank Chalton, K.C.B., M.A., F.S.A., F.L.A., F.M.A.; British librarian; b. 5 Oct. 1901, Liverpool, Lancs.; s. of Frank William Francis and Elizabeth Chalton; m. Katrina Florence McClennon 1927; two s. one d.; ed. Liverpool Inst., Liverpool and Cambridge Univs. Classical Master, Holyhead County School 1925-26; Asst. Keeper, British Museum 1926-46, Sec. 1946-48, Keeper Dept. of Printed Books 1948-59, Dir. and Prin. Librarian, British Museum 1959-68; Hon. Fellow, Emmanuel Coll., Cambridge; Hon. Sec. Bibliographical Society; Lecturer in Bibliography, Univ. Coll., London; Chair. Council of British Nat. Bibliography, Int. Relations Cttee., ASLIB, Exec. Cttee., Library Assen., Univ. and Research Section, Library Assen., Nat. Cttee. for ICOM; mem. Library Advisory Council, England; Editor of The Library 1936-53; Joint Editor Journal of Documentation 1947-68; Advisory Editor Library Quarterly; Assoc. Editor Libri; Vice-Pres. Int. Advisory Cttee. on Bibliography, UNESCO; Pres. ASLIB 1957-59, Int. Fed. of Library Assens. 1963-69, Bibliographical Soc. 1964-66, Library Assen. 1965; Pres. Museums Assen. 1965-66; Chair. Int. Conf. on Cataloguing Principles, Paris 1961, Anglo-Swedish Soc.; Consultant Council [illegible] Library Resources, Washington 1968-; Master Worshipful Co. of Clockmakers 1974; Corresp. mem. Massachusetts Historical Soc., Acad. des Beaux-Arts, Paris; Foreign Hon. [illegible] American Acad. Arts and Sciences; Hon. [illegible] Gustav Adolfs Akademien, Sweden; Hon. F.L.A.; Hon. D.Lit. (Dublin, Liverpool, Exeter, British Columbia, Leeds, New Brunswick, Oxford, Cambridge, Wales). *Leisure interests:* bibliography and gardening. *Address:* The Vine, Nether Winchendon, Aylesbury, Bucks., England. *Telephone:* Haddenham 290184.

FRANCIS, Sam, M.A.; American artist; b. 1923; ed. Univ. of California at Berkeley; first exhbn. 1947; subsequent exhbns. include San Francisco 1948, Paris 1951, 1955, 1956, New York 1956, London, Berne, Tokyo, Osaka 1957, Brussels 1958, Dunn Int. Exhbn., London 1963, Centre for Nat. Contemporary Arts, Paris 1969, Tokyo Prize for American Artists in Japan; rep. in perm. collections of Museum of Modern Art and Guggenheim Foundation, New York, Tate Gallery, London; three mural panels, Kunsthalle, Basle, Switzerland 1956-57, mural, Söfu School Tokyo 1957. *Address:* 345 West Channel Road, Santa Monica, Calif. 90402, U.S.A.

FRANÇOIS-PONCET, Jean André, PH.D.; French diplomatist; b. 8 Dec. 1928, Paris; s. of André François-Poncet and Jacqueline Dilais; m. Marie-Thérèse de Mitry 1959; two s. [illegible] d.; ed. Wesleyan Univ., Fletcher School of Law and Diplomacy at Harvard Univ., Paris Law School, Nat. School of Public Admin., Paris and Stanford Univ. Graduate School of Business; joined Ministry of Foreign Affairs 1955; worked in office of Sec. of State 1956-58; Sec.-Gen. of Del. to Negotiations for Treaties for EEC and EURATOM 1956-57; Head of European Institutions section in Ministry 1958-61; Head of Assistance and Co-operation Mission in Morocco 1961-63; in charge of African Affairs in Ministry 1963-68; Counsellor, Embassy in Iran 1968-70; Chair. of Bd., Pres. and Chief Exec. Officer, Etablissements J. J. Carnaud & Forges 1971-75; Sec. of State for Foreign Affairs Jan.-July 1976; Sec.-Gen. to Presidency of French Repub. 1976-78; Minister of Foreign Affairs Nov. 1978–; Conseiller Général, Lot-et-Garonne 1967-, Pres. Conseil Général 1978; Chevalier, Légion d'honneur. *Publication:* The Economic Policy of Western Germany 1970. *Address:* Ministère des Affaires Etrangères, Quai d'Orsay, Paris (Office); 6 Boulevard Suchet, Paris 16e, France (Home). *Telephone:* 261-51-00 (Office); 504-13-37 (Home).

FRANGATOS, Gerassimos, D.SC.; Greek scientist; b. 1923, Monoplata; m.; ed. Univ. of Athens, McGill Univ., and Nat. Council for Research, Ottawa, Canada. Dir. various important cos. engaged in chemical production and research, Canada and U.S.A. 1956-65; Prof. of Organic Chem., Athens Polytechnic 1965; Scientific Adviser to Prime Minister; Pres. Hellenic Centre for Atomic Research; Minister of Nat. Educ. and Religion 1972. *Publications:* various scientific articies. *Address:* c/o Ministry of National Education, Athens, Greece.

FRANJIEH, Suleiman; Lebanese politician; b. 14 June 1910, Zgharta; m.; five c.; ed. coll. at Antoura, near Beirut; elected to Parl. [illegible] Ind. mem. 1960 and 1964; Minister of Posts, Telegraphs and Telephones and Minister of Agric. 1960-61; Minister of the Interior 1968; Minister of Justice, Minister of Econ., Minister of Public Works, Minister of Nat. Econ. 1969-70; head, trade Del. to negotiate Soviet-Lebanese trade and payments agreement; Pres. of Lebanon 1970-76. *Address:* c/o Office of the President, Beirut, Lebanon.

FRANJU, Georges; French film director; b. 12 April 1912, Fougères; s. of Georges and Marguerite Franju; m. Germaine Blankawistz. Stage Designer; Co-founder, Cercle du cinéma 1935, Cinémathèque française 1936, and of journal Cinématographe 1938; Exec. Sec. Int. Fed. of Film Archives 1938-45; Gen. Sec. Inst. of Scientific Cinematography 1945-52; Dir. of short films 1949-, full-length films 1958-; Gen. Sec. Acad. du Cinéma; Officier Ordre des Arts et des Lettres, Chevalier Légion d'honneur 1971. *Short films include:* Le sang des bêtes, En passant par la Lorraine, Hôtel des invalides, Le grand Méliès, M. et Mme Curie, A propos d'une rivière, Mon chien, Les poussières, La première nuit, Le théâtre national populaire, Notre-Dame, Cathédrale de Paris; Full-length films: La tête contre les [illegible] 1958, Les yeux [illegible] visage 1959, Pleins feux [illegible] l'assassin 1960, Thérèse Desqueyroux 1962, Judex 1963, Thomas l'Imposteur 1965, Les rideaux blancs 1966, La faute de l'Abbé Mouret 1970, Nuits rouges 1974, La discorde 1977, Le dernier mélodrame 1978. *Address:* 13 quai des Grands-Augustins, Paris 6e, France.

FRANK Sir (Frederick) Charles, Kt., O.B.E., D.PHIL., F.INST.P., F.R.S.; British professor of physics (retd.); b. 6 March 1911, Durban, S. Africa; s. of Frederick Frank and Medora Celia Emma Frank (née Read); m. Maia Maita Asché 1940; ed. Thetford Grammar School, Ipswich School and Lincoln Coll., Oxford. Kaiser Wilhelm Institut für Physik, Berlin-Dahlem 1936-38; Colloid Science Lab., Cambridge 1939-40; Chemical Defence Research Establishment, Porton 1940; Air Ministry, A.D.I. (Science) 1940-46; H. H. Wills Physics Lab., Univ. of Bristol 1947-76, Research Fellow 1948-51, Reader 1951-54, Prof. 1954-69, Henry Overton Wills Prof. and Head of Dept. 1969-76; Visiting Prof. Univ. of Calif., San Diego 1964-65; Vice-Pres. Royal Soc. 1967-69, Fellow 1954; Hon. Fellow Lincoln Coll. Oxford 1968, Inst. of Physics 1977; Bakerian Lecturer 1973; Hon. D.Sc. (Ghent) 1955, (Bath) 1974, (Trinity Coll. Dublin) 1968, Hon. D. Univ. (Surrey) 1977; Holweck Prize 1963; Crystal Growth Award, American Assen. for Crystal Growth 1978. *Publi-*

cations: articles in various learned journals, mostly dealing with dielectrics, the physics of solids, crystal growth, crystal dislocations, liquid crystals, polymers and geophysics. *Leisure interests:* gardening, walking. *Address:* H. H. Wills Physics Laboratory, Tyndall Avenue, Bristol, BS8 1TL (Office); Orchard Cottage, Grove Road, Coombe Dingle, Bristol 9, Avon, England (Home). *Telephone:* 0272-24161 (Office); 0272-681708 (Home).

FRANK, Ilya Mikhailovich; Soviet physicist; b. 23 Oct. 1908, Leningrad; ed. Moscow Univ; fmr. Asst. to Prof. S. I. Vavilov 1928; worked at Leningrad Optical Inst. (Lab. of Prof. A. N. Terenin) 1030-34; at Lebedev Inst. of Physics (U.S.S.R. Acad. of Sciences) 1934-; Prof. of Physics, Moscow Univ. 1944-, Head of Lab. 1957-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-48, Academician 1968-; Nobel Prize for Physics (with Tamm and Cherenkov) 1958, State Prize 1946, Order of Lenin (twice), Order of the Red Banner of Labour, Order of the October Revolution 1978 etc. *Publications:* Function of Excitement and Curve of Absorption in Optic Dissociation of Tallium Ioclate 1933, Coherent Radiation of Fast Electron in a Medium 1937, Pare Formation in Krypton under Gamma Rays 1938, Doppler Effect in Refracting Medium 1942, Neutron Multiplication in Uranium-Graphite Systems 1955, On Group Velocity of Light in Radiation in Refracting Medium 1958, Vavilov-Cherenkov Radiation 1960, Optics of Light Sources 1960, On Some Peculiarities of Elastic Deceleration of Neutrons 1964. *Address:* P. N. Lebedev Institute of Physics, Academy of Sciences of the U.S.S.R., 53 Leninsky Prospekt, Moscow, U.S.S.R.

FRANK, Paul, DR. RER. POL.; German foreign office official; b. 4 July 1918, Hilzingen; s. of Josef and Anna Frank; m. Irma Sutter 1950; two s.; ed. Volksschule, Realgymnasium and Univs. of Freiburg i. Br., Zürich and Fribourg (Switzerland). Vice-Consul, Paris 1950, First Sec. 1955; Chief, West European Desk, Foreign Office, Bonn 1957; Counsellor, Observer Mission to UN, New York 1960; mem. Planning Staff, Foreign Office 1963, Dir. W. European Dept. 1965, Dir. of Political Affairs 1968, Sec. of State 1970-, Chief of the President's Office 1974-; various decorations. *Leisure interests:* painting, architecture. *Address:* Bundespräsidialamt, 53 Bonn, Kaiser-Friedrich-Strasse 16, Federal Republic of Germany.

FRANKE, Egon; German politician; b. 11 April 1913, Hanover; co-founder of S.P.D.; in charge of Org. Dept. of Party Exec. until 1952; Dist. Chair., Hanover; Land Chair., Lower Saxony; mem. Bundestag for Hanover 1951-; mem. Party Exec. 1964-; Alderman, Hanover 1945-47; mem. Landtag Hanover 1946-47, Lower Saxony 1947-51; Chair. All-German Cttee. 1967-69; Minister of Intra-German Affairs 1969-. *Address:* Bundesministerium für innerdeutsche Beziehungen, 53 Bonn, Godesberger Allee 140, Federal Republic of Germany.

FRANKE, Herbert, PH.D., LL.D; German university professor; b. 27 Sept. 1914; m. Ruth Freiin von Reck 1945; one s.; ed. Univs. of Cologne, Bonn and Berlin. Reader Cologne Univ. 1949; British Council Fellow, Cambridge 1951; Prof. of Far Eastern Studies Univ. of Munich 1952-, Dean Faculty of Letters 1958-59; Sec.-Gen. XXIVth Int. Congress of Orientalists 1957, Sec. 1953, Pres. 1965-71; Pres. Deutsche Morgenländische Gesellschaft, Editor of its Zeitschrift 1960-65; Vice-Pres. Deutsche Forschungsgemeinschaft 1974-; Visiting Prof. Univ. of Washington 1964-65, 1969-70; mem. Bavarian Acad. of Sciences; Prix Stanislas Julien (Acad. des Inscriptions et Belles-Lettres, Paris) 1953. *Publications:* Beiträge zur Wirtschaftsgeschichte Chinas unter der Mongolenherrschaft 1949, Sinologie 1953, Beiträge zur Kulturgeschichte Chinas unter der Mongolenherrschaft 1956 etc. *Address:* Institut für Ostasienkunde, Universität München, Munich (Office); Fliederstrasse 23, 8035 Gauting, Federal Republic of Germany (Home). *Telephone:* Munich 850-29-08.

FRANKEL, Sir Otto Herzberg, Kt., D.SC., D.AGR., F.R.S., F.A.A., F.R.S.N.Z.; Australian geneticist; b. 4 Nov. 1900, Vienna; m. Margaret Anderson 1939; ed. Agricultural Univ. of Berlin; geneticist, later Dir., Wheal Research Inst., New Zealand 1929-49; Dir. Crop Research Div., Dept. of Scientific and Industrial Research, New Zealand 1949-51; Chief, Div. of Plant Industry, Commonwealth Scientific and Industrial Research Org. 1951-62, Senior Research Fellow 1966-, mem. of Exec. 1962-66. *Publications:* articles in New Zealand, Australian, British and American journals; co-ed: Plant Genetic Resources 1970, Crop Genetic Resources 1975. *Leisure interests:* skiing, fishing, gardening. *Address:* C.S.I.R.O., P.O. Box 1600, Canberra City, A.C.T. 2601 (Office); 4 Cobby Street, Campbell, A.C.T. 2601, Australia (Home).

FRANKEL, Sally Herbert, M.A., PH.D., D.SC.; British economist; b. 22 Nov. 1903, Johannesburg, S. Africa; s. of late Jacob and Mathilde (née Buxbaum) Frankel; m. Ilse J. Frankel 1928; one s. one d.; ed. St. John's Coll., Johannesburg, Univ. of the Witwatersrand and London School of Economics. Prof. of Econs. and Head of Dept. of Econs. and Econ. History, Univ. of Witwatersrand 1931-46; Chair. Comm. to report on Rhodesia Railways Ltd. 1942-43; Chair. Comm. of Enquiry into Mining Industry of S. Rhodesia 1945; mem. Royal Comm. on East Africa 1953-55; Emer. Prof. in Econs. of Underdeveloped Countries, Oxford; Emer. Fellow, Nuffield Coll. (Prof. and Professorial Fellow 1946-71); Visiting Prof. Univ. of Va. 1967, 1968, 1970, 1971, 1972, 1973; Hon. D.Litt. (Rhodes Univ.), Hon. D.Sc.(Econ.) (Witwatersrand). *Publications:* Co-operation and Competition in the Marketing of Maize in South Africa 1926, The Railway Policy of South Africa 1928, Coming of Age: Studies in South African Citizenship and Politics 1938, Capital Investment in Africa: Its Course and Effects 1938, The Concept of Colonisation 1949, The Economic Impact on Under-Developed Societies 1953, Investment and the Return to Equity Capital in the South African Gold Mining Industry 1887-1965: An International Comparison 1967, Gold and International Equity Investment 1969, Money: Two Philosophies, the Conflict of Trust and Authority 1977. *Leisure interests:* gardening, chess. *Address:* The Knoll House, Hinksey Hill, Oxford, England. *Telephone:* Oxford 735345.

FRANKENTHALER, Helen, B.A.; American artist; b. 1928, New York; m. Robert Motherwell 1958 (separated 1971); ed. Bennington Coll., Vt.; Trustee Bennington Coll. 1967; Fellow Calhoun Coll., Yale Univ. 1968; one-woman exhbns. throughout U.S.A. and Europe, particularly at André Emmerich Gallery 1959-, Whitney Museum of American Art, and Metropolitan Museum of art, New York 1951-73, Guggenheim Museum, N.Y.C. 1975, Corcoran Gallery, Washington, D.C. 1975, Museum of Fine Arts, Houston 1976, U.S.I.A. (United States Information Agency) exhbn.; mem. Nat. Inst. of Arts and Letters 1974, Corpn. of Yaddo; travelled to Far East, Australia, Latin America 1978-79; Hon. D.Hum.Litt. (Skidmore Coll.) 1969, Hon. D.F.A. (Smith Coll.) 1973, (Moore Coll. of Art) 1974, (Bard Coll.) 1976, Hon. Dr. of Art (Radcliffe Coll.) 1978; First Prize, Paris Biennale 1959; Joseph E. Temple Gold Medal Award, Pennsylvania Acad. of Fine Arts 1968, Spirit of Achievement Award, Albert Einstein Coll. of Medicine 1970, Gold Medal of the Commune of Catania, Florence 1972, Garrett Award, Art Inst. of Chicago 1972, Creative Arts Award, American Jewish Congress 1974, Art and Humanities Award, Yale Women's Forum 1976, Extraordinary Woman of Achievement Award, Nat. Conf. of Christians and Jews 1978. *Address:* c/o André Emmerich Inc., 41 East 57th Street, Fifth Floor, New York, N.Y. 10022; 117 East 83rd Street, New York, N.Y., U.S.A. (Studio).

FRANKFURT, Stephen Owen, B.A.; American advertising executive; b. 17 Dec. 1931; ed. New York Univ. and Pratt Inst.; joined Young & Rubicam 1955, Art and Copy Supervisor 1957, Vice-Pres. and Dir. of Special Projects 1960, Senior Vice-Pres. and Co-Creative Dir. of Agency 1964, Creative Dir. 1967-, Pres. 1968-; Gold Medal, N.Y. Art Dirs. Club 1958, 1959, 1961, 1962, 1963; Special Gold Medal Outstanding TV Advertising 1961, Winner TV Category Venice Film Festival 1964, Achievement Award, N.Y. Art Dirs. Club 1968. *Address:* Young & Rubicam U.S.A., 285 Madison Avenue, New York, N.Y., U.S.A. *Telephone:* 576-8608.

FRANKL, Peter; British concert pianist; b. 2 Oct. 1935, Budapest, Hungary; s. of Tibor and Laura Frankl; m. Annie Feiner 1958; one s. one d.; ed. High School, Franz Liszt Music Acad., Budapest; regular concert tours with leading orchestras and conductors throughout the world; numerous festival appearances including Edinburgh, Windsor, Cheltenham, Lucerne, Flanders, Aldeburgh, Adelaide; winner of int. competitions at Paris 1957, Munich 1957, Rio de Janeiro 1959; Franz Liszt Award, Budapest 1958; Hon. Citizen, Rio de Janeiro 1960. Numerous recordings including complete works for piano of Schumann and Debussy, orchestral and chamber pieces. *Leisure interests:* football, opera, theatre. *Address:* 5 Gresham Gardens, London, NW11 8NX, England. *Telephone:* 01-455 5228.

FRANKLIN, Norman Laurence, C.B.E., PH.D., C.ENG., F.ENG., F.I.CHEM.E.; British chemical engineer; b. 1 Sept. 1924, Leeds, Yorks.; s. of William Alexander Franklin and Beatrice Franklin; m. Bessie Coupland 1949; one s. one d.; ed. Batley Grammar School, Univ. of Leeds. Deputy Man. Dir. United Kingdom Atomic Energy Authority (UKAEA) 1964-67, performed Special Duties 1968, mem. for Production 1969-71, part-time mem. 1976-; Chief Exec. British Nuclear Fuels Ltd. 1971-75; Chair. and Man. Dir. Nuclear Power Co. Ltd. May 1975-; Dir. British Nuclear Fuels 1975-, Nat. Nuclear Corpn. Ltd.; Pres. Inst. of Chemical Engineers 1979-80. *Publications:* Statistical Analysis in Chemistry and the Chemical Industry 1954, The Transport Properties of Fluids, Vol. 4, Chemical Engineering Practice 1957, Heat Transfer by Conduction, Vol. 7, Chemical Engineering Practice 1963, Nuclear Waste, Its Sources and Treatment Vol. 17 1975, The Technological Demands of Nuclear

Power 1977, Nuclear Power in Western Society 1977, papers in Transactions (Inst. of Chemical Engineers) 1953-66. *Leisure interest:* walking. *Address:* 1 Greenacre Close, Knutsford, Cheshire, WA16 8NL, England. *Telephone:* Knutsford (0565) 3045.

FRANKLIN, William Henry; American business executive; b. 30 Jan. 1909, Chicago, Ill.; m. Mary Haas 1937; two s. two d.; ed. Phillips Exeter Acad. and Princeton Univ. Auditor, Price Waterhouse & Co., Chicago 1934-41; Asst. Controller Caterpillar Tractor Co. 1941-44, Controller 1944-52, Vice-Pres. 1952-62, Exec. Vice-Pres. 1962-66, Pres. 1966-72, Chair. of Bd. 1972-75; mem. Nat. Assen. Accountants, American Inst. of Accountants and other orgs. *Address:* 500 Miller Road, Peoria, Ill. 61614, U.S.A.

FRANKS, Baron (Life Peer), cr. 1962, of Headington in the County of Oxford; **Oliver Shewell Franks,** P.C., O.M., G.C.M.G., K.C.B., C.B.E., M.A.; British college principal; b. 16 Feb. 1905, Birmingham; s. of Rev. S. Franks and Katharine Shewell; m. Barbara Mary Tanner 1931; two d.; ed. Bristol Grammar School and Queen's Coll., Oxford. Fellow and Praelector in Philosophy, Queen's Coll. Oxford 1927-37; Prof. of Moral Philosophy Univ. of Glasgow 1937-45; Civil Servant (temporary) Ministry of Supply 1939-46, Perm. Sec. 1945-46; Provost Queen's Coll. Oxford 1946-48; Hon. Fellow of Queen's Coll., Oxford 1948, Wolfson Coll., Oxford, St. Catherine's Coll., Cambridge; British Amb. to U.S.A. 1948-52; Chair. Lloyds Bank 1954-62; Chair. Friends' Provident and Century Life Office 1955-62; Chair. Cttee. of London Clearing Bankers 1960-62; mem. Nat. Econ. Devt. Council (NEDC) 1962-64; Provost, Worcester Coll., Oxford 1962-76; Chancellor, Univ. of E. Anglia 1965-; mem. Pol. Honours Scrutiny Cttee. 1977-; Hon. D.C.L. Oxford and other hon. degrees. *Address:* The Chancellor's Office, University of East Anglia, Norwich, NR4 7TJ; Blackhall Farm, Charlbury Road, Oxford, OXZ 6UU, England. *Telephone:* Oxford 511286.

FRANZ JOSEF II, Prince of Liechtenstein, Duke of Troppau and of Jägerndorf, Count of Rietberg; b. 16 Aug. 1906, Schloss Frauenthal; s. of Prince Alois and Princess Elisabeth of Liechtenstein; m. Georgine (Gina), Gräfin von Wilczek 1943; four s. one d.; ed. Schotten Gymnasium and Forestry and Agricultural Univ., Vienna. Ruler Principality of Liechtenstein, succeeded July 1938. *Address:* Schloss Vaduz, Principality of Liechtenstein. *Telephone:* 075-21212.

FRANZEN, Ulrich J., B.A., B.ARCH.; American architect; b. 15 Jan. 1921, Germany; ed. Williams Coll., and Harvard Univ. Head of Ulrich Franzen and Assocs., New York City 1955-; Lecturer Yale and Cornell Univs., Univs. of Cincinnati and Illinois, etc.; Visiting Prof. Yale, Harvard and Washington Univs. and Carnegie Inst. of Tech.; Chair. Architectural Bd. of Review, City of Rye 1958-63, Urban Design Review Bd., City of Cincinnati 1964-65, Nat. Council on Schoolhouse Construction and U.S. Navy Review and Advisory Panel on Architecture 1965; Pres. Architectural League of New York 1966; mem. American Inst. of Architects; numerous awards for design and construction including Brunner Memorial Prize, Nat. Inst. of Arts and Letters 1962, Thomas Jefferson Award 1970, 1971, 1972. *Works include:* Barkin Levin Co., Long Island City 1958, Philip Morris Research Center, Richmond, Va. 1959, Plans for Helen Whiting Inc., Pleasantville, N.Y. 1962, Philip Morris Operations Center 1963, Agronomy Building for Cornell Univ. and New Alley Theatre, Houston, Texas, Residence and Dining Halls, Univ. of N.H., housing for elderly, Torrington, Conn. 1972, First City Nat. Bank of Binghamton, N.Y. 1973. *Address:* 555 Madison Avenue, New York, N.Y. 10022 (Office); 975 Park Avenue, New York 28, N.Y., U.S.A. (Home).

FRASER, Lady Antonia, B.A.; British author; b. 27 August 1932, London; d. of the Earl and Countess of Longford (*qq.v.*); m. Rt. Hon. Hugh Fraser, M.P. (*q.v.*) 1956 (divorced 1976); three s. three d.; ed. Dragon School, Oxford, St. Mary's Convent, Ascot and Lady Margaret Hall, Oxford. *Publications:* King Arthur 1954, Robin Hood 1955, Dolls 1963, History of Toys 1966, Mary, Queen of Scots 1969 (James Tait Black Memorial Prize), Cromwell: Our Chief of Men 1973, King James VI and I 1974, Scottish Love Poems, A Personal Anthology 1974, Kings and Queens of England 1975, Love Letters (anthology) 1976, Quiet as a Nun 1977, The Wild Island 1978. *Address:* c/o Curtis Brown Ltd., 1 Craven Hill, London, W.2., England.

FRASER, Sir Campbell (*see* Fraser, Sir (James) Campbell).

FRASER, Douglas Andrew; American labour official; b. 18 Dec. 1916, Glasgow, Scotland; s. of Douglas and Sara (Andrew) Fraser; m. Winifred Davis 1967; two d.; ed. Chadsey High School, Detroit, Mich.; appointed Admin. Asst. to Pres. United Auto Workers 1951-59, Regional Dir. 1959-62, mem.-at-large Exec. Bd. 1962-70, Vice-Pres. 1970-77, Pres. 1977-. *Leisure interests:* reading, some spectator sports. *Address:* 8000 East Jefferson, Detroit, Mich. 48214, U.S.A. (Office). *Telephone:* 313-926-5201.

FRASER, Sir Hugh, 2nd Bt.; British business executive; b. 18 Dec. 1936; m. 1st Patricia Bowie 1962 (dissolved 1971), 2nd Aileen Ross 1973; ed. St. Mary's, Melrose, and Kelvinside Acad. Dir. House of Fraser Ltd. 1958-65, Deputy Chair. 1965-66, Chair. 1966-; Chair. George Outram & Co. Ltd. 1966-, Whyte & Mackay Ltd. 1973; Dir. Harrods Ltd. 1966- (Chair. 1966-76, Man. Dir. 1970-76), John Barker & Co. Ltd. 1966- (Chair. and Man. Dir. 1966-76), Binns Ltd. 1966- (Chair. and Man. Dir. 1966-76); Deputy Chair. Scottish and Universal Investments Ltd., (Chair. and Man. Dir. 1966-76); Dir. Highland Tourist (Cairngorm Devt.) Ltd. 1972-; succeeded to father's Baronetcy (Lord Fraser of Allander, Bt.) 1966, and disclaimed Barony. *Address:* Cattermuir Lodge, Croftamie, Glasgow G63 0HG, Scotland.

FRASER, Rt. Hon. Hugh Charles Patrick Joseph, P.C., M.B.E., M.P.; British politician; b. 23 Jan. 1918; m. Lady Antonia Pakenham (Lady Antonia Fraser, *q.v.*) 1956 (divorced 1976); three s. three d.; ed. Ampleforth Coll., Balliol Coll., Oxford, and Univ. of Paris; with Lovat Scouts, Phantom and Special Air Service, Second World War; Cons. M.P. 1945-; Parl. Private Sec. to Sec. of State for the Colonies 1951-54; Parl. Under-Sec. of State and Financial Sec., War Office 1958-60; Parl. Under-Sec. of State for Colonies 1960-62; Sec. of State for Air 1962-64; Minister of Defence for the Royal Air Force 1964; Dir. Sun Alliance. *Address:* Gilean Aigas, Beauly, Inverness, Scotland.

FRASER, Sir (James) Campbell, Kt., B.COM., F.B.I.M.; British business executive; b. 2 May 1923, Dunblane, Scotland; s. of Alexander Ross and Annie McGregor Fraser; m. Maria Harvey (née McLaren) 1950; two d.; ed. Glasgow Univ. and Dundee School of Econs; served in R.A.F. 1941-45; Raw Cotton Comm. 1950-52; Economist Intelligence Unit 1952-57; with Dunlop Rubber Co. Ltd. 1957-, Public Relations Officer 1958, Group Marketing Controller 1962, Man. Dir. Dunlop New Zealand Ltd. 1967, Exec. Dir. 1969, Joint Man. Dir. 1971, Chair. 1977-, Man. Dir. Dunlop Holdings Ltd. 1972-, Chair. 1978; Chair. Scottish TV 1975-, CBI Industrial Policy Cttee.; Pres. Soc. of Business Economists; Dir. Finance for Industry, Finance Corpn. for Industry, British Petroleum Co.; mem. Council Confed. of British Industry, Ind. Devt. Advisory Board, CBI Pres. Comm., Council of SMMT, Exec. Comm. of SMMT, Scottish Business School; Trustee of The Economist; Hon. Dr. Univ. (Stirling). *Leisure interests:* athletics, reading, theatre, cinema, gardening, walking. *Address:* Dunlop House, 25 Ryder Street, St. James's, London, S.W.1 (Office); Silver Birches, 4 Silver Lane, Purley, Surrey, England (Home). *Telephone:* 01-660 1703.

FRASER, Rt. Hon. (John) Malcolm, C.H., P.C., M.A. (OXON.); Australian politician; b. 21 May 1930, Melbourne; s. of the late J. Neville Fraser and of Una Fraser; m. Tamara Beggs 1956; two s. two d.; ed. Melbourne Grammar School and Oxford Univ.; mem. Parl. for Wannon 1955-; mem. Joint Parl. Cttee. of Foreign Affairs 1962-66; Chair. Govt. Members' Defence Cttee.; Sec. Wool Cttee.; mem. Council of Australian Nat. Univ., Canberra 1964-66; Minister for the Army 1966-68, for Educ. and Science 1968-69, for Defence 1969-71, for Educ. and Science 1971-72; Parl. Leader of Liberal Party March 1975-; Prime Minister Nov. 1975-. *Leisure interests:* fishing, photography, vintage cars, motorcycles. *Address:* Parliament House, Canberra, A.C.T., Australia.

FRASER, Sir Robert Brown, Kt., O.B.E., B.A., B.SC.; British television administrator; b. 26 Sept. 1904, Adelaide, Australia; s. of Reginald Fraser and Thusnelda Homburg: m. Betty Harris 1931; one d.; ed. St. Peter's School, Adelaide, Univs. of Melbourne and London. Leader Writer, Daily Herald 1930-39; Empire Div., Ministry of Information, London 1939-41, Dir. Publications Div. 1941-45, Controller of Production 1945-46; Dir.-Gen. Cen. Office of Information 1946-54; Dir.-Gen. Ind. Television Authority 1954-70; Chair. Ind. Television News 1971-74; Hon. Fellow, London School of Econs. 1965; Hon. Life mem. Royal Inst. of Public Admin.; Gold Medal Royal TV Soc. 1970. *Address:* Flat 5M, Portman Mansions, Chiltern Street, London, W.1, England.

FRASER, William, C.B.E., B.S.C., C.ENG., F.I.E.E.; British business executive; b. 15 July 1911, Glasgow; m. Kathleen Mary Moore 1938 (died 1971); two s. two d.; ed. Glasgow High School and University Coll., London; joined Joseph Lucas Ltd. and rose to Production Engineer 1937; joined Scottish Cables Ltd. 1937, Dir. 1938, Man. Dir. 1948, Chair. 1958; Chair. Scottish Cables (South Africa) Ltd. 1957; Chair. Scottish Council Fed. British Industries 1959-61; Exec. Dir. British Insulated Callender's Cables Ltd. (now BICC Ltd.) 1959, Deputy Chair. and Chief Exec. 1971-73, Chair. 1973-76; Vice-Chair. Phillips Cables (Canada) 1961-70, Exec. Dir. Overseas Cos.

1962-70; Deputy Chair. Metal Manufactures Ltd. (Australia) 1963-70, Man. Dir. Overseas 1964-68, Man. Dir. Overseas and Construction Group 1968-70; Chair. BIC Construction Co. Ltd. 1968-69, Balfour Beatty & Co. Ltd. 1969-70; Dir. Clydesdale Bank Ltd. 1974-, Anglesey Aluminium Ltd. 1971-74. *Leisure interests:* fishing, shooting, golf. *Address:* Fenwick Lodge, Ewenfield Road, Ayr, Scotland.

FRASER DARLING, Sir Frank, Kt., D.SC., PH.D., LL.D., F.R.S.E.; British biologist; b. 23 June 1903, United Kingdom; m. 1st Marian Fraser 1925 (divorced), 2nd Averil Morley 1948 (died 1957), 3rd Christina Macinnes; three s. one d.; ed. privately and Univ. of Edinburgh. Chief Officer, Imperial Bureau of Animal Genetics 1930-33; Leverhulme Research Fellow 1933-36; Carnegie Research Fellow 1936-40; Dir. West Highland Survey 1944-50; Rockefeller Special Research Fellow 1950; Senior Lecturer in Ecology and Conservation, Univ. of Edinburgh 1952-58; Vice-Pres. Conservation Foundation, Washington, D.C. 1958-72, Hon. Trustee 1972-; BBC Reith Lecturer 1969; Mungo Park Medal, Royal Scottish Geographical Soc. 1947, U.S. Nat. Parks Service Medal 1972, Commdr. Order Golden Ark (Netherlands) 1973, Browning Award (U.S.A.) 1973, John C. Phillips Medal (Int. Union for Conservation of Nature) 1975. *Publications include:* A Herd of Red Deer 1937, Bird Flocks and the Breeding Cycle 1938, A Naturalist on Rona 1939, Natural History in the Highlands and Islands 1947, West Highland Survey 1955, Pelican in the Wilderness 1956, The Unity of Ecology 1963, Wilderness and Plenty 1970; many papers and articles. *Leisure interests:* gardening, English literature, natural history, fine art. *Address:* Lochyhill, Forres, Moray, Scotland; The Conservation Foundation, 1717 Massachusetts Avenue, N.W., Washington, D.C. 20036, U.S.A. *Telephone:* Forres 2664 (Home).

FRASER OF KILMORACK, Baron (Life Peer), cr. 1974, of Rubislaw in the County of the City of Aberdeen; **(Richard) Michael Fraser,** Kt., C.B.E.; British politician; businessman and consultant; b. 28 Oct. 1915, Nottingham; s. of the late Dr. Thomas Fraser, C.B.E., D.S.O.; m. Elizabeth Chloë Drummond 1944; two s. (one deceased); ed. Aberdeen Grammar School, Fettes Coll., Edinburgh, and King's Coll., Cambridge. Royal Artillery 1939-46; Conservative Research Dept. 1946-64, Head of Home Affairs Section 1950-51, Joint Dir. 1951-59, Dir. 1959-64; Sec. Conservative Party's Advisory Cttee. on Policy 1951-64, Deputy Chair. Conservative Party 1964-75; Sec. to Conservative Leader's Consultative Cttee. 1964-70, 1974-75; Chair. Conservative Research Dept. 1970-74; Dir. Glaxo Holdings Ltd. 1975-; Smith-Mundt Fellowship, U.S.A. 1952; M.B.E. (Mil.) 1945. *Leisure interests:* reading, music, opera, ballet, travel. *Address:* 18 Drayton Court, London, S.W.10, England. *Telephone:* 01-370 1543.

FRASER OF TULLYBELTON, Baron (Life Peer), cr. 1974; **Walter Ian Reid Fraser,** B.A., LL.B.; British judge; b. 3 Feb. 1911, Glasgow; s. of Alexander Reid Fraser and Margaret Russel MacFarlane; m. Cynthia MacDonell 1943; one s.; ed. Repton School, Balliol Coll., Oxford, Glasgow Univ. Advocate, Scotland 1936; Lecturer in Constitutional Law, Glasgow Univ. 1936-39, 1945-46, Edinburgh Univ. 1946-48; Queen's Counsel 1953; Army (Royal Artillery) Service 1939-45; Dean of Faculty of Advocates 1959-64; Senator Coll. of Justice in Scotland 1964-74; Lord of Appeal in Ordinary 1975-; Hon. LL.D. (Glasgow and Edinburgh). *Leisure interests:* walking, shooting. *Address:* House of Lords, London, S.W.1; 35 Cleaver Square, London, S.E.11; and Tullybelton House, Bankfoot, Perthshire, Scotland. *Telephone:* 01-735 3668; and Bankfoot 312.

FRAYSSE, Jean-Pierre; French banker; b. 18 Nov. 1930, Casablanca, Morocco; m. (divorced); one s. one d.; started banking career with Société Générale 1954-62; with Int. Div. of Banque Louis Dreyfus 1962-71; Exec. Dir. Lloyds Bank Int. Ltd. 1971-76; Exec. Deputy Chair. Guinness Mahon & Co. Ltd., London 1976-. *Leisure interests:* swimming, reading, tennis. *Address:* Guinness Mahon & Co. Ltd., 32 St. Mary at Hill, London, E.C.3 (Office); 40 Cadogan Square, London, S.W.1., England (Home). *Telephone:* 01-623 9333 (Office); 01-584 2384 (Home).

FRAZÃO, Sergio Armando, B.A., LL.D.; Brazilian diplomatist; b. 26 Feb. 1917, Rio de Janeiro; s. of Félix Armando de Morais Frazão and Zelia Halbout de Amorin Carrão; m. Lice de Faria Frazão 1939; one s.; ed. Colégio Pedro Segundo, Univ. of Brazil Law School; entered diplomatic service 1942; served in Paris, Vienna, with Perm. Mission to UN, New York, Santiago, Lisbon and Washington, D.C. 1946-61; Amb. to Egypt 1964-66, to Uruguay 1966-69; Head Brazilian Del. to UN, Geneva 1969; Amb. to Fed. Repub. of Germany 1969-71; Perm. Rep. to UN 1971-75; Amb. to Spain 1975-; Pres. Brazilian Coffee Inst. 1961; mem. Del. to UN Gen. Ass. 1953, 1954, 1971-74; Pres. ECOSOC 1973, and rep. to numerous other int. confs.; Grand Officer of Mil. Merit, Grand Officer Ordem de Cristo (Portugal), Order of Merit (Argentina), Grand Cross, Ordem do Rio Branco, Commdr. Order of Merit (Italy). *Publications:* The Autonomy of the Will; many articles on political and econ. subjects. *Address:* Brazilian Embassy, Fernando del Santo 6, Madrid, Spain.

FRECCIA, Massimo; American (b. Italian) conductor; b. 19 Sept. 1906; ed. Cherubini Royal Conservatoire, Florence; guest conductor New York Philharmonic Orchestra 1938, 1939, 1940; Musical Dir. and Conductor, Havana Philharmonic Orchestra 1939-43, New Orleans Symphony Orchestra 1944-52, Baltimore Symphony Orchestra 1952-59; Chief Conductor Rome (R.A.I.) Orchestra 1959–; frequent appearances ■ Guest Conductor of famous orchestras in Europe and U.S.; tours in Australia 1963, Japan 1967, South Africa 1969; appeared at various int. festivals, including Vienna, Prague, Berlin, Lisbon, Montreux; Hon. D.Mus. Tulane Univ., New Orleans; Order of the Star of Italian Solidarity. *Address:* c/o Ibbs and Tillett, 124 Wigmore Street, London, W1H 0AX; 25 Eaton Square, London, S.W.1, England (Home).

FRÉDÉRICQ, (Baron) Louis Paul Simon; Belgian lawyer and university professor; b. 25 Nov. 1892, Ghent; m. Marie-Thérèse Varlez 1920; five c.; ed. Univ. of Ghent. Lecturer, Univ. of Ghent 1924, Prof. 1929, Rector 1936-38; Gov. of Eastern Flanders 1938; Chef de Cabinet to the King 1939; returned to Univ. of Ghent and to practise at the Bar 1945-; Prof. Univ. of Brussels 1946; mem. Royal Acad. of Science, Letters and Fine Arts of Belgium; Past Pres. Int. Acad. of Comparative Law; Hon. Dr. (Rennes, Lille, Paris and Utrecht). *Publications:* Traité de droit commercial belge (10 vols.), Handboek van belgisch Handelsrecht (3 vols.). *Leisure interest:* golf. *Address:* Gontrode Heirweg 112, 9220, Merelbeke, Belgium. *Telephone:* 306212.

FREDERIKSEN, Ib Christian; Danish farmer and politician; b. 9 Aug. 1927, Svenstrup J.; s. of Thøger Frederiksen and Theodora G. Sørensen; m. Betty Hammer 1951; two s. one d.; ed. Himmerland Youth School, Rodding Folk High School and Borris Agricultural School; mem. Mariager Town Council 1966-71, Mayor 1970-71; mem. Aarhus County Council 1970-71; Minister of Agric. 1971-73; Social Democrat. *Address:* Midtbjerg, 9550 Mariager, Denmark (Home). *Telephone:* (08) 54 11 76.

FREDGA, Arne, DR.CHEM.; Swedish organic chemist; b. 18 July 1902, Uppsala; s. of Dr. Carl Fredga and Elin (née Cassel) Fredga; m. Brita Öhlin 1931; two s. two d.; ed. Univ. of Uppsala. Asst. at the Chemical Inst. Uppsala Univ. 1930-35, Asst. Prof. of Chem. 1935-39, Prof. of Organic Chem. 1939-69; mem. Swedish Royal Acad. of Sciences 1943-, Nobel Cttee. of Chem. 1944-75, Nat. Science Research Council 1952-54, Nat. Cttee. for Chem. 1956-62; Pres. Swedish History of Science Soc. 1967-, Nobel Cttee. of Chem. 1972-75, Board of Trustees of Nobel Foundation 1972-75, Nat. Cttee. History of Science 1974-; Hon. mem. Société Chimique Belge, Finska Kemistsamfundet. *Publications:* about 190 papers on stereochemistry, organic compounds of sulphur and selenium, plant growth regulators and chemical biography. *Leisure interests:* botany, history of science. *Address:* Börjegatan 3 A, 752 24 Uppsala, Sweden. *Telephone:* 018-13-57-34.

FREED, Louis Franklin, D.PHIL., C.H.B., M.D., D.P.M., D.P.H., D.T.M. and H., D.LITT. ET PHIL., D.I.H., F.R.S.S.A.F., F.S.S., F.R.A.I., F.R.G.S., F.R.C.PSYCH.; South African sociologist and social philosopher; b. 13 Feb. 1903, Libau, Balticum; s. of Nochem and Hanna Freed; m. Sylvia Sidersky 1933; two s.; ed. Univs. of St. Andrews, Pretoria, Witwatersrand, Stellenbosch, Orange Free State and South Africa and Tara Hosp., Johannesburg; fmr. South African Ed. of International Journal of Sexology; fmr. Medical Officer, Tara Neuro-Psychiatric Hospital, Johannesburg 1957; Medical Officer, Sterkfontein Mental Hospital, Krugersdorp 1956-57; Lecturer on Social Medicine 1949-; Lecturer in Dept. of Psychiatry and in Dept. of Sociology, Univ. of Witwatersrand, Johannesburg 1953-; Guest Lecturer, Inst. of Criminology, Cambridge, Inst. of Criminology, Hebrew Univ. of Jerusalem, Oxford Univ. Mental Health Soc. 1965; D.Phil. Univ. of Orange Free State 1958; fmr. mem. New York Acad. of Sciences, S. African Assn. for the Advancement of Science, Exec. Cttee. of Convocation, Univ. of Witwatersrand; Pres. Mental Health Soc., Witwatersrand, Exec. Cttee. South African PEN, Exec. Cttee. of Inst. for the study of Man in Africa, Exec. Cttee. Inst. of Adult Educ., Exec. Cttee. Johannesburg Youth Council, Exec. Cttee. S. African Nat. Epilepsy League; medical sociologist, Tara Neuro-Psychiatric Hospital, Johannesburg; D.Phil. (Orange Free State 1960, Pretoria), Ph.D. (Natal) 1975. *Publications:* The Problem of European Prostitution in Johannesburg 1949, Sex Education in Transvaal Schools 1938, The Philosophy of Sociological Medicine 1948, Findings of ■■ Investigation into ■ Group of Patients presenting the Symptoms of Schizophrenia 1953, The Social Aspect of Venereal Disease 1951, The Psychosociology of Neoplasia 1958,

A Methodological Approach to the Problem of Mental Disorder 1956, The Use of Methodological Principles in the Investigation of a Case of Trichomoniasis 1957, The Problem of Crime in the Union of South Africa: An Integralistic Approach, Cancer-Killer No. 1 1960, The Problem of Alcoholism: An Integralist Approach 1961, A Critical Analysis of R. F. A. Hoernle's Contributions to Philosophy with Special Reference to his Synoptic Treatment of Diverse Dimensions of Reality 1965, The Problem of Suicide in Johannesburg Examined from the Standpoint of Incidence, Causality and Control 1967, The Psychopath: A Social Challenge, A Case of Temporal Lobe Epilepsy, Aspects of Human Disorganisation 1968, Medico-social Aspects of Epilepsy 1969, The Social aspects of Alcoholism 1968, Commentary on the Report of the Committee of Enquiry into Drug Abuse 1972, The Phenomenon of Guilt and Guilt Feelings with Special Reference to the Buberian Approach 1972, Who is Martin Buber? 1973, Martin Buber: The Humanist Emphasis in his Philosophy 1975, The Problem of Human Rehabilitation: An Integralist Approach 1975, The Psychodynamics of inter-personal Relationships within the Family. *Leisure interests:* bowls, walking. *Address:* 15 Lystanwold Road, Saxonwold, Johannesburg, South Africa. *Telephone:* 23-0009 (Office); 41-8877 (Home).

FREEMAN, Gaylord Augustus, Jr., B.A., LL.B.; American banker; b. 19 Jan. 1910; ed. Morgan Park High School, Dartmouth Coll., Harvard Law School. Attorney, First Nat. bank of Chicago 1940-50, Vice-Pres. 1950-59, Pres. 1960-62, Vice-Chair. of the Board 1962-69, Chair. and Chief Exec. Officer 1969-75, Hon. Chair. 1975–; Dir. Borg-Warner Corpn., Cen. Coal & Coke Co., Chicago & North Western Railway Co., Clearing Industrial Dist., Container Corpn., Caterpillar Tractor Co., Time Inc.; Trustee, Northwestern Univ. *Address:* White Thorn Road, Wayne, Illinois, U.S.A.

FREEMAN, H.E. Cardinal James Darcy, K.B.E.; Australian ecclesiastic; b. 19 Nov. 1907, Sydney; s. of Robert Freeman and Margaret Smith; ed. Christian Brothers' High School, Sydney, St. Columbia's Coll., Springwood and St. Patrick's Coll., Manly. Ordained Priest 1930; Private Sec. to H.E. Cardinal Gilroy, Archbishop of Sydney 1940-46; Auxiliary Bishop of Sydney 1957; Bishop of Armidale 1968; Archbishop of Sydney 1971-; created Cardinal by Pope Paul VI 1973; Knight of the Holy Sepulchre. *Address:* St. Mary's Cathedral, Sydney, N.S.W., Australia. *Telephone:* 232-3788.

FREEMAN, Rt. Hon. John, P.C., M.B.E.; British journalist, diplomatist and businessman; b. 19 Feb. 1915; s. of Horace Freeman; m. 1st Elizabeth Johnston 1938 (divorced 1948) 2nd Margaret Kerr 1948 (died 1957), 3rd Catherine Dove 1962 (divorced 1976), 4th Judith Mitchell 1976; two s. two d. and one adopted d.; ed. Westminster School and Brasenose Coll., Oxford. Advertising Consultant 1937-40; active service in North Africa, Italy and North-West Europe 1940-45; M.P. (Lab.) Watford 1945-55; Financial Sec. to the War Office 1946-47; Under-Sec. of State for War 1947-48; Parl. Sec. to the Ministry of Supply 1948-51 (resgnd.); retd. from politics 1955; Deputy Ed. New Statesman 1958-61, Ed. 1961-65; British High Commr. in India 1965-68; Amb. to U.S.A. 1969-71; Chair. London Weekend Television 1971-, Chief Exec. 1971-76; Chair. and Chief Exec. LWT (Holdings); mem. Bd., ITN (Ind. Television News) 1971-76, Chair. 1976-; mem. Bd., Ind. Television Publs. 1971-76; Chair. Bd. of Govs., British Film Inst. 1976-77; Chair. Communications and Marketing Foundation 1977-. *Address:* LWT (Holdings) Ltd., The South Bank Television Centre, Kent House, London, S.E.1, England (Office).

FREEMAN, Nelson Wright; American business executive; b. 6 Aug. 1908, Charleston, Ill.; s. of Ernest and Mabel Freeman (née Wright); m. Norma Greenlese 1928; two d.; ed. Univ. of Illinois. Branch Man. Universal Credit Corpn., Detroit 1929-34; Pres. and Gen. Man. Freeman & Riesen Motors Co. Milwaukee 1934-38; Man. Assocs. Investment Co., Houston 1938-42; Personnel and Safety Dir. Lummus Co. Houston 1942-43; with Tenneco Inc. Houston (then Tenn. Gas Transmission Co.) 1943-61, as Man. Personnel Dept., Asst. to Pres. 1947, Vice-Pres. 1950, Senior Vice-Pres. 1954, Dir. 1966-, Pres. 1966-72, Chief Exec. Officer 1968-74, Chair. of Bd. 1971-75; Pres. Midwestern Gas Transmission Co. Houston 1954-61; natural gas consultant, banker and rancher 1962-64; Pres. Houston Nat. Bank 1964-66: fmr. Chair. of Board Tenneco Corpn. and Tenneco Int. Inc., of Exec. Cttee. J. I. Case Co., of Operating Policy Cttee. Walker Man. Co.; fmr. Dir. of numerous other Tenneco Inc. divisions, subsidiaries and affiliates. *Address:* Tenneco Inc., P.O.B. 2511, Houston, Texas 77001 (Office); Route 5, Box 31, Brenham, Texas, and 1233 Post Oak Park Drive, Houston, Texas 77027, U.S.A. (Homes). *Telephone:* 713-229-2131.

FREEMAN, Orville L., A.B., LL.B.; American lawyer and politician; b. 9 May 1918, Minneapolis, Minn.; s. of Orville E. Freeman and the late Frances (née Schroeder) Freeman; m. Jane C. Shield 1942; one s. one d.; ed. Central High School, Minneapolis, Minnesota Univ. Law School. Chair., Civil Service Comm., Minn. 1946-48; admitted to Minn. Bar 1947; partner in law firm 1947-55; Gov. State of Minn. 1955-61; nominated John F. Kennedy at Dem. Nat. Convention, L.A. 1960; Sec. of Agric. 1961-79; Pres. EDP Technology Int. Inc. 1969-70; Pres. Business Int. Corpn. 1970-, Chief Exec. Officer 1971-; Chair. U.S. Group, India-U.S. Business Council; mem. Exec. Cttee. of Advisory Council on Japan-U.S. Econ. Relations; mem. Bd. of Dirs. Cttee. for the Future, Natomas Corpn., Franklin Mint, UNA of U.S.A., Multinational Agribusiness Systems Inc., Rural America Marketing; mem. Council on Foreign Relations, Int. Club of Washington, D.C., Univ. Club of New York City; Faculty mem. Salzburg Seminar 1974, 1977; Hon. mem. Soil Conservation Soc. of America; Hon. Ph.D. (Univ. Seoul, American Univ., Washington, D.C., Fairleigh Dickinson Univ., Rutherford, N.J., St. Joseph's Coll., Philadelphia, Pa.). *Publications:* World Without Hunger and many articles. *Leisure interests:* skiing, squash, swimming, sailing. *Address:* 1 Dag Hammarskjöld Plaza, New York, N.Y. 10017, U.S.A.

FREEMAN, Sir Ralph, C.V.O., C.B.E., M.A., F.I.C.E., F.R.S.A., F.C.I.T., F.A.S.C.E.; British chartered engineer; b. 3 Feb. 1911, Finchley, London; s. of late Sir Ralph Freeman and Mary Freeman (née Lines); m. Joan E. Rose 1939; two s. one d.; ed. Uppingham School and Worcester Coll., Oxford; Construction Engineer, Dorman Long and Co., South Africa, Rhodesia and Denmark 1932-36, 1937-39, Braithwaite and Co. 1936-37; on staff of Freeman, Fox & Partners 1939-46, Senior Partner 1963-; served with Royal Engineers, Experimental Bridging Est. 1943-45, later bridging adviser to Chief Engineer 21 Army Group H.Q., N.W. Europe Campaign; mem. Council, Inst. of Civil Engineers 1951-55, 1957-61, Vice-Pres. 1962-66, Pres. 1966-67; mem. Nat. Con. Council to Ministry of Works 1952-56, Board of Govs., Westminster Hosp. 1963-69, Advisory Council on Scientific Research and Devt. 1966-69, Defence Scientific Advisory Council 1969-72, Royal Fine Art Comm. 1968-; Consulting Engineer to H.M. the Queen for Sandringham Estate 1949-76; Chair. Asscn. Consulting Engineers 1975-76; Pres. Welding Inst. 1975-77; mem. gov. body, Imperial Coll. of Science and Tech. 1975–; Hon. Fellow, Rhodesian Inst. of Engineers 1969, Inst. of Mechanical Engineers 1970; Hon. D. Univ. (Surrey); Order of Orange-Nassau 1945. *Publications:* several papers in Proceedings Inst. of Civil Engineers. *Leisure interests:* golf, carpentry, sailing. *Address:* Freeman, Fox & Partners, 25 Victoria Street (South Block), London, SW1H 0EX (Office); Ballards Shaw, Ballards Lane, Limpsfield, Oxted, Surrey, RH8 0SN, England (Home). *Telephone:* 01-222 8050 (Office); Limpsfield Chart 3284 (Home).

FREERKSEN, Enno, D.PHIL., D.MED.; German medical research scientist; b. 11 Sept. 1910, Emden; m.; one s. two d.; ed. Univs. of Rostock, Giessen, Zürich and Marburg. Asst. Professor, Giessen 1939, Full Professor, Kiel 1945; Dir. of Borstel Research Inst. 1946–. *Publications:* contributions to scientific journals in Germany and abroad on experimental medicine and biology (morphology, immunology, mycobacteria, chemotherapy, leprosy, tuberculosis) medical history and scientific theory. *Address:* Forschungsinstitut Borstel, Parkallee 1-42, D-2061 Borstel, Federal Republic of Germany. *Telephone:* 04537-293.

FREETH, Sir Gordon, K.B.E., LL.B.; Australian politician; b. 6 Aug. 1914, S. Australia; s. of Rt. Rev. Evelyn and Gladys M. (née Snashall) Freeth; m. Joan C. C. Baker 1939; one s. two d.; ed. Univ. of Western Australia; Barrister and Solicitor W. Australia 1938-; Solicitor Katanning, W. Australia 1939-49; R.A.A.F. 1942-45; mem. Parl. 1949-69; Minister for Interior and Works 1958-63 and Minister assisting the Attorney-Gen. 1962-64, for Shipping and Transport 1963-68, for Air and Minister assisting the Treas. 1968, for External Affairs Feb.-Oct. 1969; Amb. to Japan 1970-73; High Commr. in U.K. 1977-; Liberal. *Leisure interests:* golf, squash. *Address:* Australia House, Strand, London, WC2B 4LA, England; 142 Victoria Avenue, Dalkeith 6009, Western Australia, Australia.

FREI, Ephraim Heinrich, D.PHIL.; Israeli professor of electronics; b. 2 March 1912, Vienna, Austria; s. of the late Dr. Siegmund Frei and Franziska Frei (née Wiener); m. Yael Fanny Rosenfeld 1948; one s. one d.; ed. Vienna and Hebrew Univs. Broadcasting Engineer, British Army; attached to British Embassy, Athens 1944-46; mem. staff Scientific Dept., Ministry of Defence 1948-50; Prof. and Head Dept. of Electronics, Weizmann Inst. of Science 1960-77, Prof. Emer. Medical Physics, Dept. of Electronics 1977-; mem. Inst. for Advanced Study, Princeton, N.J. 1952; Int. Research Fellow, Stanford Research Inst. Calif. 1960; chair. and scientific dir., Bd. of Dirs. Yeda; mem. Bd. of Dirs. Miles-Yeda; mem. Editorial Bd., Medical Progress through Tech.; Chair. XII Int. Conf. Medical and Biological Eng., and V Int. Conf. Medical Physics; Fellow, I.E.E.E.;

Weizmann Prize 1957. *Publications:* scientific papers on electronics, physics and biomedical engineering. *Leisure interests:* golf, squash. *Address:* Yeda, POB 95 Rehovot, Israel.

FREI MONTALVA, Eduardo, LL.D.; Chilean lawyer and politician; b. 16 Jan. 1911, Santiago; s. of Eduardo Frei Schlins and Victoria Montalva; m. María Ruíz-Tagle 1935; three s. four d.; ed. Public School, Lentue, Inst. of Humanities, Santiago and Catholic Univ. of Chile; fmr. mem. Chamber of Deputies, now mem. Senate; fmr. Minister of Public Works; founder-mem. Falange Nacional, later Partido Demócrata Cristiano (PDC) 1935, Pres. of PDC on three occasions, and fmr. Chair.; Pres. of Chile 1964-70; Ed. El Tarapacá (daily) 1935-37; mem. Independent Comm. on Int. Devt. Issues; Knight Grand Cross Order of the Bath. *Publications:* The Regime of Fixed Salaries and its Possible Abolition, Unknown Chile, Now is the Time, Politics and the Spirit, The History of Chilean Political Parties, Truth Has Its Hour, Political Meaning and Form, Thought and Action. *Address:* c/o Partido Demócrata Cristiano, Santiago, Chile.

FREITAS-CRUZ, João de; Portuguese diplomatist; b. 27 March 1925, Lisbon; s. of José A. and Maria Amelia de Freitas-Cruz; m. Maria de Lourdes Salazar Antunes 1955; three s.; ed. Lisbon Univ.; Attaché, Ministry of Foreign Affairs 1948, subsequently held posts with Perm. Del. of Portugal to NATO, and the Portuguese Embassies in London, Pretoria and Tananarive; Consul-Gen., subsequently Minister Plenipotentiary, New York 1964; Consul-Gen., Salisbury, Rhodesia 1965-70; Perm. Rep. of Portugal to OECD 1970-71; Amb. to Fed. Repub. of Germany 1971-73; Dir.-Gen. of Political Affairs, Ministry of Foreign Affairs 1973; Perm. Rep. to NATO 1974-. *Leisure interests:* golf, hunting. *Address:* Avenue de l'Armée 76, 1040 Brussels, Belgium.

FRELEK, Ryszard, PH.D.; Polish politician; b. 30 May 1929, Parysów near Garwolin; ed. Cen. School of Foreign Service, Warsaw; mem. Peasant Youth Union, then Polish Youth Union to 1950, Polish United Workers' Party (PZPR) 1950-; Corresp. in India, PAP (Polish Press Agency) 1957-59, later Deputy Editor-in-Chief of Foreign Dept., Deputy Editor-in-Chief of PAP 1968-69; Head of Polish Inst. of Int. Affairs 1969-71, Chair. Scientific council 1978–; Docent, Warsaw Univ. for many years, Prof. extraordinary of Political Sciences 1976-; Head of Foreign Dept. of Cen. Cttee., PZPR 1971-, mem. Secr. of Cen. Cttee. 1971-75, Sec. Cen. Cttee. 1975-; Deputy to Seym 1972-; Chair. Seym Cttee. of Foreign Affairs 1976-; Order of Banner of Labour, 1st Class, Knight's Cross, Order of Polonia Restituta. *Publication:* Historia zimnej wojny (History of Cold War) 1971. *Address:* Polska Zjednoczona Partia Robotnicza, Ul. Nowy Świat 6, 00-497 Warsaw, Poland.

FRÉMAUX, Louis Joseph Felix; French orchestral conductor; b. 13 Aug. 1921, Air Sur Lys; ed. Conservatoire National Supérieur de Musique, Paris; Musical Dir. and Perm. Conductor of Orchestre Nat. de l'Opéra de Monte-Carlo, Monaco 1955-66; Prin. Conductor, Rhones-Alpes Philharmonic Orchestra, Lyons 1968-71; Prin. Conductor and Musical Dir., City of Birmingham Symphony Orchestra 1969-78; Chief Conductor, Sydney Symphony Orchestra 1979-; 8 Grand Prix du Disque Awards; Koussevitsky Award, Notturni ed Alba of McCabe 1973. *Address:* Arthur Baker Management, Spring Cottage, Box, Stroud, Glos. GL6 9HD. *Telephone:* 045-383-2025.

FRENCH, Charles Stacy, S.B., M.A., PH.D.; American scientist; b. 13 Dec. 1907, Lowell, Mass.; s. of Charles Ephraim French and Helena Stacy French; m. Margaret Wendell Coolidge 1938; one s. one d.; ed. Loomis School and Harvard Univ.; Research Fellow, Biology, Calif. Inst. of Tech.; Pasadena, Calif. 1934-35; Guest Worker, Kaiser Wilhelm Inst. Berlin-Dahlem 1935-36; Austin Teaching Fellow, Biochem., Harvard Medical School, Boston 1936-38; Instructor (Research), Chem., Univ. of Chicago 1938-41; Asst., Assoc. Prof. Botany, Univ. of Minn. 1941-47; Dir. Dept. of Plant Biology, Carnegie Inst. 1947-73, Dir. Emer. 1973-; Prof. (by courtesy) Biology, Stanford Univ.; Chair. Western Section, American Soc. Plant Physiologists 1954 (Charles Ried Barnes Life Membership Award 1971); mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Deutsche Akad. der Naturforscher Leopoldina, Soc. Gen. Physiologists (Pres. 1955-56), Harvard Club of the Peninsula (Pres. 1973-75), Botanical Soc. of America (Award of Merit 1973); Hon. Ph.D. (Göteborg) 1974. *Publications:* Numerous articles and reviews in technical journals on photosynthesis and the spectroscopy and functions of plant pigments; annual reports in Carnegie Inst. of Washington Year Book 1948-. *Leisure interests:* mountaineering, conservation of natural areas, development of instruments for plane table plotting for maps. *Address:* Carnegie Institution, Stanford, Calif. (Office); 11970 Rhus Ridge Road, Los Altos Hills, Calif., U.S.A. (Home). *Telephone:* (415) 325-1521 (Office); (415) 948-8318 (Home).

FRENI, Mirella; Italian opera singer; b. 1935, Modena; debut 1955, debut at La Scala, Milan 1962, Glyndebourne Festival 1961, Royal Opera House, Covent Garden 1961, Metropolitan Opera, N.Y. 1965; has sung at Vienna State Opera and at Salzburg Festival and leading opera houses throughout the world. *Major roles include:* Nanetta in Falstaff, Mimi in La Bohème, Zerlina in Don Giovanni, Susanna, Adina in L'elisir d'amore, Violetta in La Traviata, Desdemona in Otello. *Address:* c/o John Coast Concerts, 1 Park Close, London, S.W.1, England.

FRÈRE, Jean; Belgian diplomatist and banker; b. 1919, Chatou, Seine-et-Oise, France; s. of Maurice Frère; m. Marie-Rose Vanlangenhove 1949; one s. three d.; ed. Germany, Austria, Brussels Univs.; with Solvay & Cie. (Chemical Industries), Brussels 1941-46; entered diplomatic service 1946, Attaché (Commercial and Econ.), Belgian Legation, Prague 1948-51; Political Div., Ministry of Foreign Affairs 1951-52; First Sec. (Econ.), Belgian Embassy, Rome 1952-58; Gen. Sec. EIB 1958-; mem. Belgian Del. Conf. between EEC mem. countries and Britain 1962; Conseiller Banque Lambert 1962-, Man. Partner 1967-; Conseiller Général Banque Bruxelles Lambert S.A. 1975-; mem. of the Board, Banco di Roma (Belgique) S.A.; Chair. Comm. on Int. Investments and Econ. Devt., Int. Chamber of Commerce; Chair. of Bd. S.A. Belge AEG-Telefunken, Brussels; many Belgian and foreign decorations. *Leisure interests:* violin, painting, photography, electronics. *Address:* Banque Bruxelles Lambert S.A., 24 avenue Marnix, 1050 Brussels (Office); 106 avenue de l'Observatoire, 1180 Brussels, Belgium (Home). *Telephone:* (02) 513-81-81 (Office); (02) 374-08-56 (Home).

FREUD, Anna, C.B.E., LL.D., SC.D.; British (naturalized) psychoanalyst; b. 3 Dec. 1895; d. of the late Prof. Sigmund Freud and Martha Freud (née Bernays); ed. Cottage Lyceum, Vienna; mem. Vienna Psycho-Analytic Soc., Chair. Training Inst., Chair. of the Soc. 1925-38; Organizer of a Residential War Nursery for Homeless Children, London 1940-45; mem. British Psycho-Analytic Soc. and Inst. of Psycho-Analysis 1938-; Vice-Pres. Int. Psycho-Analytic Assen. 1938-; Dir. Hampstead Child-Therapy Course and Clinic 1952-; Hon. LL.D. (Clark Univ.) 1950, (Sheffield) 1966, Hon. Sc.D., (Jefferson Medical Coll., Philadelphia, Pa.) 1964, (Chicago) 1966, (Yale) 1968. *Publications:* Introduction to Psychoanalysis for Teachers 1931, The Ego and the Mechanisms of Defence 1937, The Psycho-Analytical Treatment of Children 1946, Normality and Pathology in Childhood 1965, Indications of Child Analysis, and other papers 1969, Difficulties in the Path of Psychoanalysis (U.S.A.) 1969, Research at the Hampstead Child Therapy Clinic, and other papers 1956-65, 1970, Problems of Psychoanalytic Technique and Therapy 1973, The Writings of Anna Freud Vols. I-VII (U.S.A.) 1973; and, with Dorothy Burlingham, Young Children in War-time 1942, Infants Without Families 1943. *Address:* 20 Maresfield Gardens, London, N.W.3, England.

FREUD, Lucian; British painter; b. 8 Dec. 1922; ed. Central School of Art, Goldsmiths' Coll., London; Teacher at Slade School of Art, London 1948-58; first one-man exhbn. 1944, subsequently 1946, 1950, 1952, 1958, 1963, 1968, 1972, 1978; first retrospective, Hayward Gallery 1974; works have been acquired by New York Museum of Modern Art, Melbourne Nat. Gallery, Tate Gallery, London, etc.; rep. at Dunn Int. Exhbn., London 1963. *Address:* c/o Anthony d'Offay, 9 Dering Street, London, W.1, England.

FREUDENBERG, Karl Johann, DR.PHIL.; German chemist; b. 29 Jan. 1886, Weinheim (Baden); s. of Hermann and Helene Freudenberg (née Siegert); m. Doris Nieden 1910 (deceased); two s. (killed in 2nd World War) three d.; ed. Realprogymnasium Weinheim, Goethe-Gymnasium Frankfurt, Univs. of Bonn and Berlin; worked with Emil Fischer, Berlin 1908-13; Privatdozent, Univ. of Kiel 1914; First World War (Iron Crosses) 1914-18; Privatdozent, Univ. of Munich 1920; Extraordinary Prof. Univ. of Freiburg 1921; Full Prof. and Dir. Chemical Lab., Tech. Univ. Karlsruhe 1922-26; Full Prof. and Dir. Chemical Lab., Univ. of Heidelberg 1926-56, Rector of Univ. 1949; Dir. of Research Inst. for Chem. of Wood and Polysaccharides, Chemical Inst., Heidelberg 1946-69; Carl Schurz Memorial Prof., Univ. of Wis. 1931; Dohme Lecturer, Univ. of Baltimore 1931; Cooch Behar Prof. Lecturer, Indian Assen. for Cultivation of Science, Jadavpur, Calcutta 1958; mem. Acads. of Heidelberg, Göttingen, Munich, Uppsala, Stockholm, Lund, Helsinki, and Int. Acad. Wood Science; Foreign mem. Royal Soc., London; Hon. mem. Acad. Leopoldina, Halle, Swiss Chemical Soc., Japanese Chemical Soc., Japanese Agric. Chemical Soc., Spanish Soc. of Physics and Chem., Soc. of Austrian Chemists, Chemical Soc. London, Gesellschaft Deutscher Chemiker, Societas Scientiarum Fennica, etc.; Dr. h.c. Technical Univs. of Graz and Darmstadt, Univs. Basle and Berlin, Humboldt Univ.; Grosses Bundesverdienstkreuz mit Stern, Emil Fischer and Alex. Mitscherlich Medals. *Publications:* Chemie der natürlichen Gerbstoffe

1920, Stereochemistry 1933, Tannin, Cellulose, Lignin 1933, Organische Chemie (with Plieninger) 1977 (trans. into Spanish, English, Japanese); Constitution and Biosynthesis of Lignin (with Neish) 1968; papers on stereo-chemistry, natural organic high molecular substances, tannins, sugars, etc., cullulose, starch, proteins, lignin. *Address:* 6900 Heidelberg, Wilckensstrasse 34, Federal Republic of Germany. *Telephone:* (06221) 41948.

FREUND, Mrs. Miriam Kottler, M.A., PH.D.; American Zionist organizer; b. 17 Feb. 1906, New York; d. of Harry Kottler and Rebecca Zindler; m. 1st Milton Freund 1927 (died 1968), two s.; m. 2nd Harry Rosenthal 1974; ed. Hunter Coll., New York Univ.; Teacher public high schools, New York to 1944; mem. Nat. Board Hadassah (Women's Zionist Org.) 1940-, Chair. Youth Activities 1943-48, Vocational Educ. 1948-53, Nat. Youth Aliyah 1953-56; Vice-Pres. Hadassah 1953-56, Pres. 1956-60; Ed. Hadassah Magazine 1966-71; Del. to American Jewish Conf. 1943, to 21st Orientalist Congress, Moscow 1960; Co-chair. American Zionist Youth Comm. 1944-49; Founding charter mem. Brandeis Youth Foundation 1944; mem. Actions Cttee., World Zionist Org. 1956-; mem. Presidium, World Zionist Congress 1960-64; Chair. Exec. Cttee., American Zionist Council 1960-65; mem. Nat. Board, Jewish Nat. Fund, Vice-Pres. 1960-; mem. Board United Israel Appeal (UIA) 1960-; mem. Exec., World Council Synagogues 1966-; mem. Nat. Council, Nat. Planning Assn. 1970; mem. Assembly, Jewish Agency June 1971–; Vice-Pres. American Zionist Fed. 1970, Women's Cttee., Brandeis Univ.; Chair. Israel Seminars Foundation, Nat. Liaison with Yaal; Nat. Assoc. Chair. State of Israel Bonds, Women's Div.; mem. American Assn. Univ. Women, American Jewish Hist. Soc.; recipient citation of Jewish Book Council, America 1954. *Publications:* Jewish Merchants in Colonial America 1936, Jewels for a Crown 1963; articles in various journals. *Leisure interests:* travel, painting, writing. *Address:* 50 West 58th Street, New York, N.Y. 10019 (Office); 575 Park Avenue, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* 838-4900; (612) 224-1355.

FREY, Roger; French politician; b. 11 June 1913, Nouméa, New Caledonia; s. of François and Anne-Marie (née Brun) Frey; m. Lucienne Bernier 1936; one s. one d.; ed. Coll. Stanislas, Paris and Ecole des Sciences Politiques; Counsellor of the French Union 1952; Sec.-Gen. Parti Républican Social 1954, UNR 1958; Minister of Information 1959-1960, attached to Prime Minister's Office 1960-62, of the Interior 1962-67; Minister of State responsible for relations with Parl. 1967-71, for Admin. Reforms 1971-72; Pres. Constitutional Court 1974-; Croix de guerre, Officier Légion d'honneur. *Address:* 56 boulevard Flandrin, 75116 Paris, France.

FREY-WYSSLING, Prof. Albert, DR.SC.NAT.; Swiss university professor; b. 8 Nov. 1900, Küssnacht-Zürich; s. of Dr. Hans Frey and Clara Hoepfner; m. Margrit Wyssling; two s. two d.; ed. Swiss Federal Inst. of Technology (ETH), and Univs. of Geneva, Jena and Paris; Rockefeller Fellow, Unif. of Jena 1925, at Paris 1926; Teacher of Gen. Botany at ETH 1927; Plant Physiologist, Experiment Station AVROS, Sumatra, Indonesia 1928-32; Asst. and Lecturer, Gen. Botany, ETH Zürich 1932-38, Prof. Gen. Botany and Plant Physiology 1938-70, Prof. Emer. 1970-, Rector ETH 1957-61; Foreign mem. Royal Society, London 1957; Foreign Assoc. Nat. Acad. of Sciences of U.S.A. 1970; Dr. h.c. (Utrecht, Münster, Rennes, Vancouver, Nijmegen, Fribourg). *Publications:* Stoffausscheidung der höheren Pflanzen 1935, Submikroskopische Morphologie des Protoplasmas 1938, Submikroskopische Struktur des Cytoplasmas 1955, Macromolecules in Cell Structure 1957, Die pflanzliche Zellwand 1959, Ultrastructural Plant Cytology (with K. Mühlethaler) 1965, Comparative Organellography of the Cytoplasm 1973. *Address:* Schilträi, 8706 Meilen, Switzerland. *Telephone:* 01-9230056.

FREYMOND, Jacques, D. ès L.; Swiss professor of history; b. 5 Aug. 1911, Lausanne; s. of Arthur Freymond and Jeanne Heubi; m. Antionette Cart 1940; two s. one d.; ed.Univs. of Lausanne, Munich and Paris; Teacher in various secondary schools 1935-42; Prof. of Modern and Contemporary History, Univ. of Lausanne 1943-55; Prof. of Diplomatic History, Ecole des Sciences sociales et politiques, Univ. of Lausanne 1946-55; Diplomatic Chronicler, Gazette de Lausanne 1946-55; Rockefeller Fellow in U.S. for studies, especially Yale and Columbia Univs. 1949-50; Prof. of History, Graduate Inst. of Int. Studies, Geneva 1951-, Dir. 1955-78; Prof. History of Int. Relations, Univ. of Geneva 1958-77; corresp. mem. Acad. des Sciences Morales et Politiques 1961; mem. Int. Red Cross Cttee. 1959-72, Vice-Pres. 1965-66, 1969-70; Pres. Int. Political Science Assn. 1964-67; Assoc. Prof. Inst. d'Etudes Politiques, Paris 1978-79; Dr. h.c. (Geneva, Bucharest). *Publications:* La politique de François Ier à l'égard de la Savoie 1939, Lénine et l'impérialisme 1951, De Roosevelt à Eisenhower: la politique étrangère américaine 1953, Le conflit Sarrois 1959, La Première Internationale, recueil de documents (Editor) vols. 1 and 2 1962, vols. 3 and 4 1971, Etudes et documents sur la Première Internationale en Suisse 1964, Western Europe since the War 1964, Contributions à l'étude du Comintern 1965, Guerres, Révolutions, Croix-Rouge 1976, La Suisse et la diplomatie multilatérale (Editor) 1976, Les hommes d'état célèbres 1920-1970 (Editor and author) 1977. *Address:* 132 rue de Lausanne, c/o Institut Universitaire de Hautes Etudes Internationales, 1211 Geneva (Office); 1294 Genthod, Geneva, Switzerland (Home). *Telephone:* 741195.

FREYRE, Gilberto de Mello, M.A., D.LITT., POL.SC.D.; Brazilian writer and social anthropologist; b. 1900; ed. Colégio Americano, Recife, Baylor and Columbia Univs., U.S.A.; research in England, France, Germany and U.S. 1922, 1931, 1936, 1937; Prof. of Sociology, Pernambuco State Normal School 1928-30; Prof. of Sociology and Founding Prof. of Social Anthropology, Univ. do Rio do Janeiro 1935-38; M.P. 1946-50; f. Recife Inst. for Research in Social Sciences 1949; Del. UN Gen. Ass. 1949, 1964; Tech. Adviser, Dept. for Protection of Historical and Artistic Monuments, UN Cttee. on Race Relations in South Africa 1954; Supervisor North East Brazil Social and Educ. Research Centre 1957-; mem. Fed. Council of Culture of Brazil 1967-; Visiting Prof. and Lecturer at many univs.; Hon. mem. American Sociological Soc., Brazilian Historical and Geographical Inst., American Acad. of Arts and Sciences, World Acad. of Arts and Sciences, French Acad. of Sciences; Hon. Prof., Recife and Bahia Univs.; mem. Portuguese, Ecuadorean and Colombian Historical Acads., American Anthropological Assn., Lisbon Geog. Soc., American Anthropological Assn., Lisbon Geog. Soc., American Philosophical Soc., Hispanic Soc. of America, Portuguese Acad. of Sciences; Dir. Diogène and Cahiers Internationaux de Sociologie (Paris), Inst. Int. de Civilisations Différentes (Belgium); Hon. Aggregatus of Sociology, Univ. de Buenos Aires; Dr. h.c. (Columbia, Sussex, Coimbra, Sorbonne, Münster); Filipe d'Oliveira Award 1934, Amsfield-Wolf Award (Princeton) 1957, Brazilian Acad. of Letters Award for high literary merit 1959, Great Cross of Military Merit 1960, Great Cross of the Brazilian Order of Baron of Rio Branco (Diplomacy) 1966, and numerous other awards. *Publications:* Casa-Grande e Senzala (in English as The Masters and the Slaves) 1934, Sobrados e Mucambos (in English as The Mansions and the Shanties) 1936, Sociologia, Problemas brasileiros de Antropologia (Brazil: An Interpretation) 1945, Ingleses no Brasil 1948, Aventura e Rotina 1953, Vida Social no Brasil nos Meados do Século XIX 1964, Dona Sinká e o Filho Padre (in English as Mother and Son), Talvez Poesia. *Address:* Apipucos, Recife, Brazil.

FRICK, Alexander; Liechtenstein politician; b. 1910, Schaan, Liechtenstein; s. of Alexander and Theresia Frick-Wanger; m. Hildegard Kranz 1939; five s. four d.; ed. Training Coll. for Teachers; began career as teacher 1929; official in Tax Dept. 1930-36, Chief of Dept. 1936; Head of Govt. 1945-62; Pres. of the Diet 1969; Hon. Dr. (Freiburg); Grand Cross of Liechtenstein Order of Merit, Great Silver Insignia of Honour (Bande der Republik Österreich), Grosskreuz des Piusordens; mem. Bürgerpartei. *Address:* Im Ganser 121, Schaan, Principality of Liechtenstein. *Telephone:* 2-18-02.

FRICK, Gottlob; German bass opera signer; b. 1906; ed. Stuttgart Opera Chorus and under Neudörfer-Opitz; first small part in Bayreuth Festival 1930; with Coburg Opera 1934, then Freiburg-im-Breisgau and Königsberg Opera; with Dresden Opera 1940-50; joined West Berlin City Opera 1950; regular commitments with Vienna State Opera, Bavarian State Opera and guest artist at Covent Garden and Metropolitan, New York; chiefly known for Wagnerian roles including Daland, Hermann, King Heinrich, King Mark, Pogner, Gurnemanz and bass parts in The Ring especially Fasolt, Hunding and Hagen; also sings in Oratorio; Verdienstkreuz (1st Class), Grosses Bundesverdienstkreuz, Österreichisches Ehrenkreuz für Wissenschaft and Kunst (1st Class). *Address:* Enzkreis-Pforzheim, Eichelberg-Haus Waldfrieden, 7531 Olbronn-Dürrn, Federal Republic of Germany. *Telephone:* 07043-6508.

FRICKER, Peter Racine, F.R.C.O., A.R.C.M.; British musician; b. 5 Sept. 1920, Wood Green, London; s. of Edward Racine and Deborah Alice Fricker (née Parr); m. Helen Clench 1943; ed. St. Paul's School and Royal Coll. of Music; served R.A.F. 1939-45; worked in London as composer, conductor and music admin. 1946-64; Dir. of Music, Morley Coll. 1952-64; Prof. of Music, Univ. of Calif. 1964-; Hon. mem. Royal Acad. of Music, Hon. Prof. Fellow, Univ. of Wales, Cardiff; Hon. D.Mus. (Leeds) 1958; W. German Order of Merit 1965. *Works:* First String Quartet 1948, First Symphony 1949, First Violin Concerto 1950, Violin Sonata 1950, Second Symphony 1951, Viola Concerto 1953, Second String Quartet 1953, Second Violin Concerto 1953, Piano Concerto 1954, Dance Scene for Orchestra 1954, Horn Sonata 1955, Litany for Double String Orchestra 1955, Musick's Empire (Chorus and Orchestra) 1955, 'Cello Sonata 1956, The Vision of Judgement (Oratorio) 1957,

Octet 1958, Comedy Overture 1958, Toccata for Piano and Orchestra 1959, Serenade No. 1 for Six Instruments 1959, Serenade No. 2 for Flute, Oboe and Piano 1959, Third Symphony 1960, 12 Studies for Piano 1961, Cantata for Tenor and Chamber Ensemble 1962, O Longs Désirs (song cycle for soprano and orchestra) 1963, Ricercare for Organ 1965, Four Dialogues for Oboe and Piano 1965, Four Songs, Voice and Piano, Texts by Andreas Gryphius (also with Orchestra) 1965, Fourth Symphony 1966, Fantasy for Viola and Piano 1966, Three Scenes for Orchestra, The Day and the Spirits (soprano and harp) 1967, Seven Counterpoints for Orchestra 1967, Ave Maris Stella (male voices and piano) 1967, Refrains for Solo Oboe 1968, Magnificat for Soloists, Chorus and Orchestra 1968, Episodes for Piano 1968, Concertante No. 4 for Flute, Oboe, Violin and Strings 1968, Set No. 1 for organ 1968, Toccata Gladius Domini for organ 1968, Some Superior Nonsense for Tenor and Chamber Ensemble 1969, Serenade No. 3 for Four Saxophones 1969, Episodes II for Piano 1969, Praeludium for Organ 1969, Paseo for Guitar 1970, The Roofs for Soprano and Percussionist 1970, Concertante No. 5 for Piano and String Quartet 1971, Intrada for Organ 1971, Nocturne for Orchestra 1971 Ballade for Flute and Piano 1972, Seven Little Songs (Hölderlin) for Chorus 1972, Introitus for Orchestra 1972, The Groves of Dodona for Six Flutes 1973, Two Petrarch Madrigals for Chorus 1974, Spirit Puck for Clarinet and Percussions 1974, Trio Sonata for Organ 1974, Third String Quartet 1976, Fifth Symphony, for Organ and Orchestra 1976, Sinfonia for Wind Instruments 1977, Anniversary for Piano 1977, Sonata for Two Pianos 1977, Serenade No. 4 for Three Clarinets and Bass Clarinet 1977, Laudi Concertati for Organ and Orchestra 1979. *Leisure interest:* travel. *Address:* Department of Music, University of California, Santa Barbara, California 93106 (Office); 5423 Throne Court, Santa Barbara, Calif. 93111, U.S.A. (Home). *Telephone:* 805-964-3737.

FRIDAY, William Clyde, B.S., LL.B., LL.D.; American educator; b. 13 July 1920, Raphine, Va.; s. of David Latham and Mary Elizabeth Rowan Friday; m. Ida Willa Howell 1942; three d.; ed. Wake Forest Coll., North Carolina State Coll. and Univ. of N. Carolina Law School; Asst. Dean of Students, Univ. of N. Carolina at Chapel Hill 1948-51, Acting Dean of Students 1950-51, Admin. Asst. to Pres. 1951-54, Sec. of Univ. 1954-55, Acting Pres. 1956, Pres. 1956-; Hon. LL.D. (Wake Forest Coll., Belmont Abbey, Duke Univ., Princeton Univ., Elon Coll., Davidson Coll. Kentucky and Mercer Univs.), Hon. D.C.L. (Univ. of the South 1976). *Leisure interests:* gardening, golf, reading. *Address:* University of North Carolina, General Administration, Chapel Hill, North Carolina 27514, U.S.A. *Telephone:* 919-933-6981.

FRIDERICHS, Hans, DR.RER.POL.; German politician and banker; b. 16 Oct. 1931, Wittlich; m. Erika Wilhelm; two d.; Man., Rhineland-Hesse Chamber of Industry and Trade 1959-63; Deputy Business Man. FDP 1963-64, Business Man. 1964-69; mem. Bundestag 1965-69, 1976-77; Sec. of State, Ministry of Agric., Viniculture and Protection of the Environment for Rhineland Palatinate 1969-72; Fed. Minister of Econs. 1972-77; Dir. Dresdner Bank 1977-, Chair. Bd. Man. Dirs. 1978-; Deputy Chair. FDP 1974-77. *Leisure interests:* art, sport. *Address:* Dresdner Bank, 6 Frankfurt am Main 1, Gallusanlage 7, Federal Republic of Germany.

FRIDH, Gertrude; Swedish actress; b. 26 Nov. 1921; ed. Gothenburg School of Dramatic Art; Gothenburg Theatre 1944-49; Intima Theatre, Stockholm 1950; Allé Theatre, Stockholm 1955-57; Royal Dramatic Theatre, Stockholm 1958-. *Plays acted in include:* Ett Dockhem 1953, Som ni behagar 1954, Le Misanthrope 1957, Anna Karenina 1958, Hedda Gabler 1964 (London 1968). *Films acted in include:* Skepp till indialand 1947, Tvd trappor över gåaden 1949-50, Hjärter Knekt 1950, Smultrunstället (Wild Strawberries) 1957, Ansiktet (The Face) 1958, Djävulens Öga 1960. *Address:* c/o Svenska Filminstitutet, Kungsgatan 48, Stockholm C. Sweden.

FRIED, Josef, PH.D.; American organic chemist; b. 21 July 1914, Poland; s. of Abraham and Frieda Fried; m. Erna M. Werner 1939; one d.; ed. Univs. of Leipzig, Zürich and Columbia; Research Assoc., Squibb Inst. for Medical Research, New Brunswick, N.J. 1944-47, Head of Dept. 1947-49, Dir. Div. of Organic Chem. 1959-63, Prof. Depts. of Chem., Biochem., and Ben May Lab. for Cancer Research, Univ. of Chicago 1963-, Chair. Dept. Chem. 1977-; mem. Nat. Acad. of Sciences, American Chem. Soc., American Soc. Biol. Chemists, British and Swiss Chem. Socs.; Fellow, A.A.A.S., New York Acad. of Sciences; American Chemical Soc. Award in Medical Chem. 1974. *Publications:* concerning chemistry and bio-chemistry of steroids, prostaglandins, carcinogenic hydrocarbons. *Leisure interests:* violin (chamber music), skiing, sailing, growing orchids. *Address:* Department of Chemistry, University of Chicago, 5735 S. Ellis Avenue, Chicago, Ill. 60637, U.S.A. *Telephone:* 312-947-5079.

FRIEDAN, Betty; American feminist leader; b. 4 Feb. 1921, Illinois; m. Carl Freidan 1947 (divorced 1969); two s. one d.; f. Nat. Org. for Women 1966, first Pres. 1966-70, Chair. 1970-72; Organizer Nat. Women's Political Caucus 1971, Int. Feminist Congress 1973, First Women's Bank & Trust Co. 1973; Visiting Prof. of Sociology, Temple Univ. 1972, Yale Univ. 1974, Queen's Coll. 1975; Contributing Ed., McCalls Magazine 1971-; numerous lectures in U.S.A. and Europe; mem. PEN; American Humanist Award 1975. *Publications:* The Feminine Mystique 1963, It Changed My Life 1976; articles in McCall's, Harper's, etc. *Address:* One Lincoln Plaza, New York, N.Y. 10023, U.S.A.

FRIEDEL, Jacques; French physicist; b. 11 Feb. 1921, Paris; s. of Edmond Friedel and Jeanne Friedel (née Bersier); m. Mary Winifred Horder 1952; two s.; ed. Ecole Polytechnique, Ecole des Mines de Paris, Bristol Univ.; Mining engineer, Ecole des Mines de Paris 1948-56, Maître de Conférences, Univ. de Paris 1956-59; Prof. of Solid State Physics, Univ. de Paris (later Paris Sud) 1959-, Dir. Third Cycle: Exact and Nat. Sciences 1974-77; Pres. Section 21, Consultative Cttee. on Univs. 1975-; mem. Acad. of Sciences 1977–; Hon. mem. American Acad. of Sciences and Letters, Inst. of Physics; Hon. D.Sc. (Bristol 1977); Chevalier, Légion d'honneur, Officier, Ordre du Mérite. *Publication:* Dislocations 1956. *Leisure interest:* gardening. *Address:* 2 rue Jean-François Gerbillon, Paris 6e, France. *Telephone:* 222-2585.

FRIEDEN-KINNEN, Madeleine; Luxembourg politician; b. 4 Oct. 1915, Esch-sur-Alzette; m. Pierre Frieden (who became Prime Minister 1958 and died 1959) 1946; Pres. of Luxembourg Women's Catholic Action 1960-66; Pres. Auxilia-Equipes sociales de malades (Assen. to help chronic sick, disabled and prisoners) 1957-66; Pres. Assen. des Villages d'Enfants SOS de Luxembourg (org. to form an orphans' village) 1963-66; Editor of Women's Page in Luxemburger Wort 1965-66; Pres. Women's Section of Christian Social Party 1966-; Sec. of State for Family, Youth, Population, Social Security and Nat. Educ. 1967-69; Minister of Family, Youth, Social Security, Public Health and Cultural Affairs 1969-1972. *Address:* c/o Ministère de la Famille, Luxembourg City, Luxembourg.

FRIEDENTHAL, Richard, DR. PHIL.; British writer; b. 9 June 1896, Munich; s. of Prof. Dr. Hans Friedenthal and Martha (née Elster) Friedenthal; m. Elisabeth C. Bach-Güttermann 1950; ed. Gymnasium, Berlin, Humboldt-Universität zu Berlin, Friedrich-Schiller-Universität, Jena, and Ludwig-Maximilians-Universität, München; fmr. Reader and Ed., Knaur Verlag, Berlin; writer and editor in England 1938-; mem. German Acad., Darmstadt; Hon. Pres. PEN Centre, Fed. Repub. of Germany; Grosses Bundesverdienstkreuz. *Publications:* include poetry, novels, short stories; biographies; Der Eroberer 1932, Leonardo da Vinci 1959, G. F. Handel 1959, Goethe—His Life and Times 1965; travel books: Die Party bei Herrn Tokaido 1958, London zwischen gestern und morgen 1960; Ed. Knaurs Lexikon 1931, Facts (4 vols.) 1934, Letters of the Great Artist (2 vols.) 1964, Luther—His Life and Times 1967, Entdecker des Ich (Montaigne, Pascal, Diderot) 1969, Jan Hus, Heretic and Rebel 1972. *Leisure interests:* collecting books, music. *Address:* 15 Burgess Hill, London, N.W.2, England. *Telephone:* 01-435 8783.

FRIEDMAN, Irving S., PH.D.; American economist; b. 31 Jan. 1915; m. Edna Friedman; two s. one d.; ed. Columbia Univ., N.Y.; mem. Office of Sec. of Treasury, U.S. 1941-46; Chief IMF 1946-48, Asst. for Policy Matters to Deputy Man. Dir. 1948-50, Dir. Exchange Restrictions Dept. 1950-64; Econ. Adviser to Pres. of Int. Bank for Reconstruction and Devt. (World Bank) 1964-70; Chair. Econ. Cttee.; mem. President's Council; Visiting Fellow, All Souls Coll., Oxford 1970-71; Prof. in Residence, World Bank 1971-74; Senior Adviser for Int. Operations, First Nat. City Bank, New York 1974–; Chair. Center of Concern 1971-; Vice-Pres. and Treas. Soc. for Int. Devt.; mem. American Econ. Soc., Council on Foreign Relations; Order of Sacred Treasure, Japan. *Publications:* Inflation: A Worldwide Disaster 1973, and numerous books and articles on international economics. *Leisure interests:* golf, sailing, tennis astronomy. *Address:* 6620 Fernwood Court, Bethesda, Md.; and 860 UN Plaza, New York, N.Y., U.S.A. (Home). *Telephone:* EM-5-5023 (Home).

FRIEDMAN, Milton, PH.D.; American economist; b. 31 July 1912, New York; s. of Jeno Saul and Sarah Esther Friedman; m. Rose Director 1938; one s. one d.; ed. Rutgers Univ., Chicago and Columbia Univs.; Assoc. Economist, Nat. Resources Cttee. 1935-37, Nat. Bureau of Econ. Research 1937-45 (on leave 1940-45), 1948-; Prin. Economist, Div. of Tax Research, U.S. Treasury Dept. 1941-43; Assoc. Dir. Statistical Research Group, Div. of War Research, Columbia Univ., New York 1943-45; Prof. of Econs., Univ. of Chicago 1948-; Senior Research Fellow, Hoover Inst. of Stanford Univ., Calif. 1976-; Bd. of Eds. Econometrica; Pres. American Econ.

Assn. 1967; mem. President's Comm. on All-Volunteer Armed Force; mem. President's Comm. on White House Fellows 1971; Pres. Mont Pelerin Soc. 1970-72; mem. Nat. Acad. of Sciences 1973–; Nobel Prize for Econ. Science 1976; numerous hon. degrees. *Publications:* Income from Independent Professional Practice (with Simon Kuznets) 1946, Sampling Inspection (with others) 1948, Essays in Positive Economics 1953, A Theory of the Consumption Function 1957, A Program for Monetary Stability 1959, Capitalism and Freedom 1962, Price Theory; ■ provisional text 1962, A Monetary History of the United States 1867-1960 (with Anna J. Schwartz) 1963, Inflation: Causes and Consequences 1963, The Balance of Payments: Free Versus Flexible Exchange Rates (with Robert V. Roosa) 1967, Dollars and Deficits 1968, Optimum Quantity of Money and Other Essays 1969, Monetary Statistics of the United States (with Anna J. Schwartz) 1970, A Theoretical Framework for Monetary Analysis 1972, Social Security: Universal or Selective: (with Wilbur J. Cohen) 1972, An Economist's Protest 1972, Money and Economic Development 1973, Milton Friedman's Monetary Framework 1974, Price Theory 1976; econ. columnist with Newsweek. *Leisure interests:* tennis, carpentry, talk. *Address:* Hoover Institution, Stanford University, Stanford, Calif. 94305, U.S.A.

FRIEDMANN, Herbert, PH.D.; American zoologist and fmr. museum director; b. 22 April 1900, New York City; s. of Uriah M. Friedmann and Mary Behrmann; m. Karen Juul Vejlo 1937; one d.; ed. Coll. of City of New York and Cornell Univ.; Instructor in Biology, Brown Univ. 1926-27, Amherst Coll. 1927-29; Curator of Birds, U.S. Nat. Museum, Smithsonian Inst. 1929-57, Head Curator of Zoology 1957-61; Dir. Los Angeles County Museum of Natural History 1961-70; Prof. of Zoology in Residence, Univ. of Calif. at Los Angeles 1964-70; Past Pres. American Ornithologists Union; Past Vice-Pres. American Assn. for Advancement of Science; Emer. mem. American Soc. of Zoologists; mem. Nat. Acad. of Sciences 1962; Hon. mem. Deutsche Ornith. Gesellschaft 1964-, S. African Ornith. Union 1973-; fmr. Research Fellow, Guggenheim Foundation; Leidy Medal, Acad. of Natural Sciences, Phila. 1955, Elliot Medal Nat. Acad. of Sciences 1959, Brewster Medal, American Ornithologists Union 1964. *Publications:* 16 books and several hundred papers including The Cowbirds, a Study in the Biology of Social Parasitism 1929, Birds of the Frick Expedition to Ethiopia and Kenya, 2 vols., 1930, 1937, The Symbolic Goldfinch 1946, The Honeyguides 1955, The Parasitic Weaverbirds 1960, Host Relations of the Parasitic Cowbirds 1963, Distributional List of the Birds of Mexico, 2 vols. (with others) 1950, 1957, Check List of North American Birds (with A. Wetmore and cttee.) 1957, Evolutionary History of the Avian Genus Chrysococcyx 1968. *Address:* 350 South Fuller Avenue, Apt. 12H, Los Angeles, Calif. 90036, U.S.A.

FRIEDRICH, Carl Joachim; American (born German) professor of political science; b. 5 June 1901; ed. Marburg, Frankfurt, Vienna and Heidelberg Univs.; emigrated to U.S.A. 1922; Lecturer in Govt. Harvard 1926-27, Asst. Prof. 1927-31, Assoc. Prof. 1931-36, Prof. of Govt. 1936-71, Eaton Prof. Science of Govt. 1955-71, Prof. Emer. 1971-; Prof. of Political Science Heidelberg 1956-66, Prof. Emer. 1966-. *Publications:* Studies in Federalism 1954, The Philosophy of Law in Historical Perspective 1956, 1958, The Age of the Baroque 1962, Man and His Government 1963, Transcendent Justice 1964, Totalitarian Dictatorship and Autocracy 1965, Introduction to Political Theory 1967, Federalism 1968, Constitutional Government and Democracy 1968, Europe: An Emergent Nation? 1969, The Pathology of Politics 1972, Tradition and Authority 1972. *Address:* 14 Hawthorn Street, Cambridge, Mass. 02138, U.S.A.

FRIEDRICH, Johannes, DR. PHIL.; German orientalist; b. 27 Aug. 1893, Leipzig; ed. Leipzig Univ.; Privat Dozent Leipzig Univ. 1924, Extra. Prof. 1929, Prof. of Oriental Philology 1935, Rector 1948-49; Prof. Ancient Oriental Philology, Berlin Free Univ. 1950, Emer. 1961, Ord. mem. Saxon Acad. of Sciences; Hon. mem. Deutsche Morgenländische Gesellschaft, Linguistic Soc. of America; Corresp. mem. Oriental Inst., Prague, German Archaeological Inst. (Istanbul Section), Ex Oriente Lux Assen., Leiden, Istituto Lombardo, Milan, and Societas Orientalis Fennica, Helsinki; Co-Editor Zeitschrift der Deutschen Morgenländischen Gesellschaft. *Publications:* Staatsverträge des Hatti-Reiches in hethitischer Sprache (Vol. I 1926, Vol. II 1930), Kleinasiatische sprachdenkmäler 1932, Einführung ins Urartäische, Ras Schamra 1933, Kleine Beiträge zur churritischen Grammatik 1939, Entzifferungsgeschichte der hethitischen Hieroglyphenschrift 1939, Hethitisches Elementarbuch (Vol. I 1940, Vol. II 1946), Phönizisch-punische Grammatik 1951, Hethitisches Wörterbuch 1952, 1957, 1961, 1966, Entzifferung verschollener Schriften und Sprachen 1954, Kurze Grammatik der alten Quiché-Sprache im Popol Vuh 1955, Hethitische Gesetze 1959, Zwei russische Novellen in neusyrischer Übersetzung 1960, Hethitisches Keilschrift-Lesebuch 1960, Geschichte der Schrift 1966. *Address:* Schloss-Strasse 49, 1 Berlin 41, Germany.

FRIENDLY, Alfred, A.B.; American journalist; b. 30 Dec. 1911, Salt Lake City, Utah; m. Jean Ulman 1937; three s. two d.; ed. Amherst Coll.; Reporter, Washington Daily News 1936-38; Reporter, Washington Post 1939-51, Asst. Man. Ed. 1952-55, Man. Ed. 1955-65, Assoc. Ed. 1966-71, Vice-Pres. and Dir. 1963-66; Asst. to Trustee, Associated Gas and Electric Corpn. 1940; served in Air Force Intelligence 1942-45, Legion of Merit; Chief European Information Branch, Econ. Co-operation Admin. 1948-49; Dir. American Soc. of Newspaper Editors 1961-65; Trustee, Amherst Coll. 1961-67; Hon. L.H.D. (Amherst Coll.) 1958; Pulitzer Prize 1968; Sydney Hillman Award 1972. *Publications:* The Guys on the Ground 1944, Crime and Publicity (Co-Author) 1967, Beaufort of the Admiralty 1977. *Leisure interest:* archaeology. *Address:* 47 Cheyne Place, London, SW3 4HL, England; and 1645 31st Street, N.W., Washington, D.C. 20007, U.S.A. *Telephone:* 01-351 0606 (London); 333-1645 (Washington).

FRIENDLY, Fred W., H.L.D.; American broadcaster and journalist; b. 30 Oct. 1915, New York City; s. of Samuel Wachenheimer and Therese Friendly; m. 1st Dorothy Greene, 2nd Ruth W. Mark 1968; five s. one d.; ed. Cheshire Acad., Connecticut, and Nichols Coll., Dudly, Massachusetts; began broadcasting career writing, producing and narrating series Footprints in the Sands of Time on local radio station 1938; U.S. Army 1941-45 as lecturer in Educ. section and corresp. for China, Burma and India on Army newspaper Roundup; commenced long professional partnership with Edward R. Murrow with historical gramophone record I Can Hear It Now; then CBS Radio Series Hear It Now and TV series See It Now 1951, Exec. Producer CBS Reports 1959-64, Pres. CBS News 1964-66; Edward R. Murrow Prof. of Journalism, Columbia Univ. 1966-; Adviser on Television to Ford Foundation 1966-; Chair. Mayor Lindsay's Task Force on CATV and Telecommunications 1968; mem. Rhode Island Heritage Hall of Fame; Hon. D. Hum. Litt. (Grinnell Coll., Iowa and Brown Univ., Rhode Island); Soldier's Medal of Heroism, Legion of Merit with four battle stars, George Foster Peabody Awards (ten). *Publications:* See It Now (co-author) 1955, Due to Circumstances Beyond Our Control 1967, The Good Guys, The Bad Guys and the First Amendment 1976; articles in the New York Times Magazine: What's Fair on the Air? 1975, A Crime and its Aftershock 1976. *Address:* Ford Foundation, 320 East 43rd Street, New York, N.Y. 10017; 4614 Fieldston Road, Riverdale, N.Y. 10471, U.S.A. *Telephone:* 202-573-4848 (Office).

FRIIS, Henning Kristian; Danish social research executive; b. 11 Oct. 1911, Copenhagen; s. of Prof. Aage Friis and Benedicte Blichfeldt; ed. Københavns Universitet; Social Science Adviser, Ministry of Social Affairs 1941-58; Sec.-Gen. Danish Govt. Youth Comm. 1945-52, Cttee. on Scientific and Tech. Personnel 1956-59; Chair. OECD Cttee. for Scientific and Tech. Personnel 1958-65; Exec. Dir. Danish Nat. Inst. of Social Research 1958; Chair. Board of Trustees, Danish Schools of Social Work 1966-71; Chair. European Social Research Cttee., Int. Gerontological Assen. 1954-60; mem. Exec. Cttee. Int. Sociological Assen. 1959-65; Vice-Chair. Danish Social Science Council 1968-77, European Centre for Coordination in the Social Sciences 1968-; mem. Board of Trustees, UN Inst. on Training and Research 1965-76; mem. Int. Social Science Council; Editor Scandinavia between East and West 1950, and Family and Society 1964. *Publications:* Social Policy and Social Trends 1958, Longstanding Public Assistance Clients 1960, Old People in ■ low-income Area in Copenhagen 1961, Institutional Means of Collaboration between the Social Sciences 1962, Development of Social Research in Ireland 1965, Social Policy and Social Research in India 1968. *Leisure interests:* tennis, reading newspapers. *Address:* 28 Borgergade, DK-1300 Copenhagen K, Denmark. *Telephone:* (01) 13-98-11.

FRIIS, Torben; Danish banker; b. 1 Dec. 1904; with Aarhus Privatbank 1921-26; Banque des Pays du Nord, Paris 1926-27; Sec. Danish Consulate-Gen., Paris 1927-28, 1931-33; with Danish company 1929-31; joined Danmarks Nationalbank 1934, special foreign responsibilities, Man. 1958-74; Perm. Del., Payments Cttee., OEEC 1948-50; with IMF 1954-58, 1966-68, Alt. Exec. Dir. 1954-56, Exec. Dir. 1956-58 and 1966-68; mem. Nordic Financial and Currency Cttee. 1960-65, Chair. 1965-66; Adviser for Standard Chartered Bank Ltd., Copenhagen 1976; Legion of Honour and Order of Dannebrog. *Address:* Frdbg. Allé 74, 1820 Copenhagen V, Denmark.

FRIMPONG-ANSAH, Jonathan Herbert; Ghanaian banker; b. 22 Oct. 1930, Mampong, Ashanti; s. of Hammond Owusu-Ansah and Elizabeth Achiaa; m. Selina Agyemang 1954; three s. one d.; ed. Univ. of Ghana and London School of Econs.; Statistician,

Ghana Govt. 1954-59; Bank of Ghana, Dir. of Research 1961-65, Deputy Gov. 1965-68, Gov. 1968-73; Chair. Ghana Diamond Marketing Board 1969-72; Dir. Volta River Authority 1972-; Chair. Ashanti Goldfields Corpn. Ltd. 1973-; Vice-Chair. Deputies of the Cttee. of the Board of Govs. on Reform of the Int. Monetary System and Related Issues, IMF, Wash. 1973-74; Consultant World Bank 1975; Chair. Standard Bank Ghana, Ltd., Accra 1975-. *Publications:* articles in Economic Bulletin (Ghana), Bulletin of the Inter Credit Bank (Geneva), Univ. of Ghana journals; contribs. in International Monetary Reform - Documents of the Committee of Twenty 1974, Ghana Who's Who 1977. *Leisure interest:* art. *Address:* 31 Brookdene Drive, Northwood, Middx., England; 3 Liberation Link, Accra, Ghana. *Telephone:* Northwood 27909; Accra 23314.

FRINK, Elisabeth, C.B.E.; British sculptor; b. 14 Nov. 1930, Thurlow; m. 1st Michael Jammet 1956 (dissolved 1962), one s.; m. 2nd Edward Pool 1968 (dissolved 1974); m. 3rd Alexander Csáky 1974; ed. Convent of the Holy Family, Exmouth, and Guildford and Chelsea Schools of Art; taught sculpture at Chelsea School of Art 1953-60, St. Martin's School of Art 1955-64; Visiting Lecturer, part-time, Royal Coll. of Art 1965-67; exhibited regularly at Waddington Galleries 1955-, and also abroad; lived in France 1967-72; now living and working in London; mem. Royal Fine Art Comm. 1976-; Trustee British Museum 1975-. *Publications:* (illustrated) Aesop's Fables 1967, Canterbury Tales 1971, The Odyssey 1974, The Iliad 1975; The Art of Elisabeth Frink 1972. *Leisure interests:* music, riding, outdoor occupations. *Address:* c/o Waddington Galleries, 2 Cork Street, London, W.1, England.

FRISCH, Karl von; German zoologist and university professor; b. 20 Nov. 1886, Vienna; s. of Anton and Marie von Frisch (née Exner); m. Margarete Mohr 1917; one s. three d.; ed. Univs. of Vienna and Munich; Privatdozent, Munich Univ. 1912; Prof. and Dir. Zoological Inst., Rostock Univ. 1921, Breslau 1923, Munich 1925, Graz 1946, Munich 1950-58; mem. Acad. of Science (Munich, Vienna, Göttingen, Washington, Uppsala, Boston, Stockholm, etc.); foreign mem. Royal Soc., London; hon. mem. Royal Entomological Soc., London, and American Physiological Soc.; Hon. Ph.D. (Berne, Graz, Harvard, Tübingen and Rostock), Hon. D.Sc. (Fed. Tech. Inst. Zürich); Magellan Prize of American Philosophical Soc., Kalinga Prize 1959, Nobel Prize for Medicine or Physiology (jointly with K. Lorenz q.v. and N. Tinbergen q.v.) 1973; Orden pour le Mérite. *Publications:* Aus dem Leben der Bienen 1927 (The Dancing Bees 1954), Du und das Leben 1936 (Man and the Living World 1963), Bees 1950 (revised edn. 1971), Biologie 1952-53 (Biology 1964), Erinnerungen eines Biologen 1957 (A Biologist Remembers 1967, 1973), Tanzsprache und Orientierung der Bienen 1965 (The Dance Language and Orientation of Bees 1967), Animal Architecture 1974 (Tiere als Baumeister). *Leisure interest:* collecting insects. *Address:* Über der Klause 10, 8000 Munich 90, Federal Republic of Germany. *Telephone:* 644948.

FRISCH, Max; Swiss writer and architect; b. 15 May 1911, Zürich; ed. Zürich Univ. and Technical High School; worked as foreign corresp. for newspapers throughout Europe and the Near East; diploma in architecture 1941; designs executed include the Zürich Recreation Park; first play published 1945; abandoned architecture for full-time writing 1955; Rockefeller Grant for Drama 1951; mem. American Acad. of Arts and Letters 1974; Prize of the German Acad. 1958, Jerusalem Prize, Ehrenpreis des Schillergedächtnispreises des Landes Baden-Württemberg 1965, Grosser Schillerpreis Zürich 1974, Friedenspreis des Deutschen Buchhandels 1976. *Publications:* Plays and novels: Blätter aus dem Brotsack 1940, Santa Cruz 1944, J'adore ce qui me brûle oder Die Schwierigen 1945, Bin oder Die Reise nach Peking 1945, Nun singen sie wieder 1945, Die chinesische Mauer 1947, Als der Krieg zu Ende war 1949, Tagebuch 1946-1949 1950, Graf Oederland 1951, Don Juan oder Die Liebe zur Geometrie 1953, Stiller 1954 (translated into 17 languages), Homer faber 1957 (translated into 15 languages), Biedermann und die Brandstifter 1958, Die grosse Wut des Philipp Hotz 1958, Andorra 1961 (translated into 11 languages), Mein Name sei Gantenbein 1964, Biografie: Ein Spiel 1967, Öffentlichkeit als Partner 1968, Wilhelm Tell für die Schule 1971, Tagebuch 1966-71 1972, Dienstbüchlein 1974, Montauk 1975. *Address:* CH-6611 Berzona, Switzerland; c/o Suhrkamp-Verlag, Frankfurt/Main, Federal Republic of Germany.

FRISCH, Otto Robert, O.B.E., DR. PHIL., F.R.S.; British experimental physicist; b. 1 Oct.1904, Vienna; s. of Dr. Justinian Frisch; m. Ulla Blau 1951; one s. one d.; ed. Vienna Univ.; engaged in Physics Research at Berlin 1927-30, Hamburg 1930-33, London 1933-34, Copenhagen 1934-39, Birmingham and Liverpool 1939-43, Los Alamos, N.M., U.S.A. 1943-46, Atomic Energy Establishment Harwell 1946-47; Jacksonian Prof. of Natural Philosophy, Cambridge 1947-72, Emer. 1972-; Fellow of Trinity Coll., Cambridge. *Publications:* Meet the Atoms 1947, Atomic Physics Today 1961, Working with Atoms 1965, The Nature of Matter 1972, What Little I Remember 1979. *Leisure interest:* music. *Address:* Trinity College, Cambridge, England.

FRISCHE, Carl Alfred, PH.D.; American scientist and business executive; b. 13 Aug. 1906; ed. Miami Univ., Ohio, and Univ. of Iowa. Physicist, Research Fellow, Columbia Univ. 1932-33; Sperry Gyroscope Co. 1933-68, Chief Research Div. 1943-45, Vice-Pres. (Engineering) 1945-54, Vice-Pres. (Operations) 1954-57; Exec. Vice-Pres. Sperry Gyroscope Div., Sperry-Rand Corpn. 1957-58, Pres. 1958-68, Consultant 1968-71; Dir. other companies. *Address:* 6642 Praying Monk Road, Scottsdale, Ariz. 85253, U.S.A.

FRITZHAND, Marek, PH.D.; Polish philosopher; b. 12 Oct. 1913, Buczacz; s. of Schmerl and Frimeta Fritzhand; m. Karolina Gruszczyńska 1949; one d.; ed. Lwów Univ.; Doctor 1951-54, Assoc. Prof. 1954-65, Prof. 1965-; Dean, Faculty of Philosophy, Warsaw Univ. 1962-65, Dean, Faculty of Social Sciences 1975-77, Head, Moral Science Dept.; Editor-in-Chief Etyka 1966-71, mem. of Editorial Staff 1973-; mem. Polish Philosophical Soc.; mem. Cttee. of Philosophical Sciences, Polish Acad. of Sciences 1966-72, Chair. 1972–; Corresp. mem. Polish Acad. of Sciences 1973-; Gold Cross of Merit (twice), Cross of Valour, Cross of Grunwald (3rd Class), Knight's Cross, Order of Polonia Restituta. *Publications include:* Człowiek, Humanizm moralności 1961, 1966, Myśl etyczna młodego Marksa 1962, W Kręgu Etyki Marksistowskiej 1966, Główne Kierunki i Zagadnienia Metaetyki 1970, O Niektorych, Właściwościach Etyki Marksistowskiej 1975, Fakty i wartosci, Zarys etyki and over 100 articles on ethics and philosophy. *Leisure interest:* photography. *Address:* Al. Wyzwolenia 2 m. 3, 00-570 Warsaw, Poland. *Telephone:* 284679.

FROEHLKE, Robert F.; American government official; b. 15 Oct. 1922, Neenah, Wis.; m. Nancy J. Barnes; two s. two d.; ed. Marshfield Senior High School, Wis. and Univ. of Wisconsin Law School; Assoc., McDonald & McDonald (Law firm), Madison, Wis. 1949-50; mem. faculty, Univ. of Wis. Law School 1950-51; Asst. Gen. Counsel, Legal Dept., Sentry Insurance, Stevens Point, Wis. 1951, Exec. Vice-Pres., Sentry Life Insurance Co. 1959-69, Vice-Pres. (Sales), Sentry Insurance Cos. 1967, Resident Vice-Pres. Sentry Insurance, Boston, Mass. 1968-69; Asst. Sec. of Defense 1969-71; Sec. of the Army 1971-73; Pres. Sentry Corpn. 1973-75, Pres. Health Insurance Assn.1975-. *Address:* 4405 Tournay Road, Bethesda, Md. 20016, U.S.A.

FRØLUND, Hakon; Danish forester; b. 10 Sept.1916, Frederiksberg; s. of Thomas Frølund (fmr. Chief Justice of Denmark) and Stella (née Fleischer) Frølund; m. Else E. Rasmussen 1941; five c.; ed. Kgl. Veterinaer- og Landbohøjskole, Copenhagen; Asst. Forest Officer Danish State Forest Service 1942-53, Chief Commercial Div. 1953-58; Inspector, Price Directorate 1944-53; mem. Danish FAO Cttee. 1954-; Chair. FAO/ECE/ILO Study Group on Forest Workers' Training, Health, Safety 1954-72; Chair. Danish Soc. of Forest Engineers 1955-59; mem. Bd. Nordic Forest Union 1955-, Chair. Danish Cttee., NFU 1959-, Pres. NFU 1962-67, 1979-; Dir. Danish State Forest Service 1958-; Chair. Danish Forest Research Comm. 1958-; Vice-Chair. Danish Forestry Soc. 1958-67; mem. Danish Council Nature Conservation 1959-72; Vice-Chair, FAO European Forestry Comm. 1963-67; Chair. Danish Cttee. Overseas Forestry Devt. 1968-; mem. Internordic Forest Research Cttee. 1968-, Chair, 77-; leader FAO/DANIDA Forestry Mission to Nigeria 1971; mem. Danish Council for Overseas Devt. 1972-; mem. board Junckers Ind. A/S 1976-, and other cos.; Commdr. of Dannebrog (Denmark), Commdr. de Mérite Agricole (France). *Address:* Skovstyrelsen, Strandvejen 863, DK-2930 Klampenborg; Enghavevej 4, 2930 Klampenborg, Denmark. *Telephone:* 01-63-11-66 (Office); 01-63-31-27 (Home).

FROMM, Erich, PH.D.; American (b. German) psychoanalyst; b. 23 March 1900; ed. Univs. of Frankfurt, Heidelberg and Munich, and Berlin Inst. of Psychoanalysis; Guest Lecturer, Columbia Univ. 1935-39; Lecturer, New School for Social Research 1938-54; Prof. Nat. Univ. of Mexico 1951-; mem. Faculty Bennington Coll. 1942-50; Prof. Michigan State Univ. 1958-62; Dir. Mexican Inst. of Psychoanalysis, affiliated with Nat. Univ. of Mexico 1955-67; Adj. Prof. of Psychology, New York Univ. 1962-; Diplomate of American Psychological Assn. *Publications:* Man for Himself 1947, Fear of Freedom 1941, Psychoanalysis and Religion 1950, The Forgotten Language 1951, The Sane Society 1955, The Art of Loving 1956, Sigmund Freud's Mission 1959, Zen Buddhism and Psychoanalysis (with D. T. Suzuki and R. de Martino) 1960, Marx's Concept of Man 1961, May Man Prevail? 1961, Beyond the Chains of Illusion 1962, The Dogma of Christ and other Essays 1963, The Heart of Man 1964, You shall be as Gods 1966, The Revolution of Hope

1968, The Nature of Man (Ed. with R. Xirau) 1969, The Crisis of Psychoanalysis 1970, Social Character in a Mexican Village (with M. Maccoby) 1970, The Anatomy of Human Destructiveness 1973, The Well Being of Man and Society 1978. *Address:* Via Franscini 4, CH 6600, Muratto, Switzerland.

FROMMEL, Gerhard; German composer and music teacher; b. 7 Aug. 1906, Karlsruhe; s. of Otto Frommel and Helene Helbing; m. Gertrud Neuhaus 1930; three s.; ed. Leipzig Musikhochschule and Prussian Acad. of Arts, Berlin; Teacher of music since 1929, Prof. of Composition, Frankfurt Hochschule für Musik 1960-. Compositions: Two symphonies, Sinfonietta for string orchestra, Symphonisches Vorspiel, Piano concerto (with string orchestra and clarinet), Suite and Variationen for orchestra, Herbstfeier for baritone, chorus and orchestra, six-part mass, 36 Lieder nach St. George, seven piano sonatas, two violin sonatas, two operas, ballet and chamber music. *Publications:* Der Geist der Antike bei R. Wagner 1933, Neue Klassik in der Musik 1935, Drei Maximen von Stefan George über Dichtung 1969. *Leisure interests:* poetry, philosophy. *Address:* Werderplatz 10, Heidelberg, Federal Republic of Germany. *Telephone:* 06221/40102.

FRONDEL, Clifford, PH.D., M.A.; American mineralogist; b. 8 Jan. 1907, New York; s. of George Frondel and Martha Kinderman; m. Judith Weiss 1949; two d.; ed. Mass. Inst. of Technology, Columbia Univ. and Colo. School of Mines; Teaching Fellow, M.I.T. 1937-39; Research Assoc. Harvard Univ. 1939-42; Senior Physicist, U.S. War Dept. 1942-43; Dir. of Research, Reeves Sound Laboratories 1943-45; Assoc. Prof. of Mineralogy, Harvard Univ. 1946-54, Prof. 1954–, Chair. Dept. of Geological Sciences 1965-; Pres. Mineralogical Soc. of America 1956; Fellow A.A.A.S., Geological Soc. America and American Acad. of Arts and Sciences; Foreign mem. Austrian Acad. of Sciences, Accademia Nazionale dei Lincei, Deutsche Akademie der Naturforscher; Becke Medal, Mineralogical Soc. of Austria, Roebling Medal, Mineralogical Soc. of America, Boricky Medal, Charles Univ., Prague, *Publications:* Dana's System of Mineralogy (co-editor), 3 vols., 1943, 1951, 1962, Systematic Mineralogy of Uranium and Thorium 1958, Minerals of Franklin and Sterling Hill 1973. *Leisure interest:* gardening. *Address:* 12 Geological Museum, 24 Oxford Street, Cambridge, Mass. 02138 (Office); 20 Beatrice Circle, Belmont, Mass. 02178, U.S.A. (Home). *Telephone:* 617-484-4719 (Home).

FRONDIZI, Arturo, D.IUR.; Argentine lawyer and politician; b. 1908; ed. Univ. de Buenos Aires; formed a resistance movement ■ a student and imprisoned 1930; in law practice 1932-; mem. Metropolitan Convention Radical Party, Prof. Univ. de Buenos Aires 1932; Radical deputy 1946; Pres. Parl. Radical Party 1946-50; cand. for Vice-Presidency 1952; Pres. Nat. Cttee. Radical Party 1954; Pres. of Argentina 1958-62; fmr. leader of Movimiento de Integración y Desarrollo. *Publications:* Petroleum and Politics 1955, Los intereses de los trabajadores y le destino de la nacionalidad 1957, Política económica nacional 1963, Política exterior argentina 1963, Petróleo y nación 1964, Estrategia y táctica del movimiento nacional 1965, El problema argario argentino 1965, El movimiento nacional—fundamentos de su estrategia 1975. *Address:* Luis Maris Campos 665, Buenos Aires, Argentina.

FRONDIZI, Risieri, PH.D.; Argentine professor of philosophy; b. 20 Nov. 1910, Posadas; s. of Julio Frondizi and Isabel Ercoli; m. Josefina Barbat 1938; one s. one d.; ed. Instituto Nacional, Buenos Aires, and Harvard, Michigan and Mexico Univs.; Prof. Philosophy, Univ. Nacional de Tucumán 1938-46; Visiting Prof. Venezuela 1947-48, Pennsylvania 1948-49, Yale 1949-50, Puerto Rico 1950-52, Columbia 1955, Texas 1965, Calif. (Los Angeles) 1966-68; mem. Inst. for Advanced Study Princeton 1964; Prof. Ethics, Univ. de Buenos Aires 1956-66, Rector 1957-62; Prof. Phil. Southern Ill. Univ. 1970; Pres. Inter-American Union of Latin American Univs. 1959-62; mem. Admin. Board Int. Assen. of Univs. 1960-70; mem. Inst. Int. de Philosophie (Paris); mem. gov. cttee. Int. Federation Philosophical Socs. (Brussels). *Publications:* Philosophy's Point of Departure 1945, The Nature of the Self 1952, What is Value? 1958, Descartes 1967, El yo como estructura dinámica 1970, The University in a World of Tensions 1971, Man and Values in 20th Century Latin American Philosophy 1975, and more than 50 scholarly articles. *Address:* Junín 1925, Buenos Aires, Argentina. *Telephone:* 44-2700.

FRONIUS, Hans; Austrian artist; b. 12 Sept. 1903, Sarajevo, Bosnia (now Yugoslavia); s. of Dr. and Mrs. Fronius (née Passini); m. Christine Lauberger 1951; four s. one d.; ed. Mittelschule, Graz, and Akad. der Bildenden Künste, Vienna; Prof. of Fine Arts, Fürstenfeld 1929-60, Mödling 1960-64; over 100 one-man exhbns., including Prague 1937, Vienna (Albertina) 1952, 1972, (Museum Belvedere) 1973, Paris 1955, 1974, (Bibliotheque Nationale) 1977, Mexico City 1957, Venice Biennale 1958, Madrid (Biblioteca Nacional) 1967, Mainz (Gutenberg Museum) 1968, Luxembourg (Staatsmuseum) 1976, Brussels (Nationalbibliothek) 1976 and in many German, French and Austrian cities; army service, Russia and Italy 1943-45; has illustrated 87 books and portfolios; Staatspreismedaille 1937, Meisterpreis für Malerei und Graphik 1950, Grosser Österreichischer Staatspreis für Malerei und Graphik 1966, Ehrenmedaille in Gold der Stadt Wien 1968, Würdigungspreis des Landes Steiermark 1974, Grosses Ehrenzeichen für Kunst und Wissenschaft, 1st Class. *Leisure interests:* literature, history, music, travel. *Address:* A2380 Perchtoldsdorf bei Wien, Guggenberggasse 18, Austria. *Telephone:* (Vienna) 86-25-83.

FROST, David Paradine, O.B.E.; British television personality and writer; b. 7 April 1939, Beccles, Suffolk; s. of Rev. W.J. Paradine Frost; ed. Gillingham and Wellingborough Grammar Schools and Caius Coll., Cambridge; appeared in That Was The Week That Was, BBC Television 1962; other programmes with BBC included A Degree of Frost 1963, 1973, Not So Much A Programme More A Way of Life 1964-65, The Frost Report 1966-67, Frost Over England 1967 (Golden Rose Award, Montreux 1967); appeared in The Frost Programme, I.T.A. 1966-67, 1967-68, 1972; formed London Weekend Consortium with Aidan Crawley 1967; Chair. and Chief Exec. David Paradine Ltd. 1966-; Joint Deputy Chair. Equity Enterprises 1973-76 (Chair. 1972-73); N.B.C. current affairs commentator; host in programmes Frost On Friday, Frost On Saturday, Frost On Sunday 1968-69, David Frost Show U.S.A. 1969-72, David Frost Revue, U.S.A. 1971-73, That Was The Year That Was, U.S.A. 1973, The Frost Interview 1974, We British 1975, The Sir Harold Wilson Interviews 1967-77, The Nixon Interviews 1976-77, The Crossroads of Civilisation 1977-78. *Publications:* include: That Was The Week That Was, How to Live Under Labour, Talking With Frost, To England With Love (with Antony Jay), The Americans, Whitlam and Frost, I Gave Them a Sword. *Address:* 46 Egerton Crescent, London, S.W.3, England.

FRÜH, Eugen; Swiss painter and illustrator; b. 22 Jan. 1914, St. Gallen; s. of Huldreich and Teresa Früh; m. Erna Yoshida Blenk (artist) 1934; ed. Zürich School of Art and in Paris and Rome. C. F. Meyer Foundation Fine Arts Prize 1943, Fine Arts Prize, Kanton Zürich 1967. Works include: Die kleine Stadt 1941, Pastorale d'été 1946, La comédie et la musique 1947, Capricci 1948, Spanisches Gespräch 1951, Notturno 1957, Château d'artiste 1962, Gartenfest 1964, Bambuswald 1972, Lotus 1973-74; also murals and book illustrations. *Leisure interests:* literature, music, travel. *Address:* Römergasse 9, 8001 Zürich, Switzerland. *Telephone:* 01-478863.

FRÜHAUF, Hans, DR. ING., DR. ING. E.H.; German scientist; b. 4 Jan. 1904. Pforzheim, Baden; ed. Eberhard-Ludwigs-Gymnasium, Stuttgart, and Technische Hochschule, Stuttgart; Prof., Tech. Univ. of Dresden 1950, Pro-rector; Dir. of Inst. of High Frequency Tech. and Electronics, Tech. Univ. of Dresden 1950; State Sec. for Research and Tech., and mem. Council of Ministers, G.D.R. 1961-62; mem. German Acad. of Sciences (Vice-Pres. 1957-63), mem. of the Forschungsrat (Vice-Pres. until 1962), mem. Wissenschaftrat; Pres. G.D.R. Nat. Cttee. of the URSI; Editor and Editor-in-Chief Elektrische Informations- und Energie-Technik, Leipzig; Editor Bücherei der Hochfrequenztechnik, Leipzig; Editor Über wissenschaftliche Grundlagen der modernen Technik, Berlin; Editor Elektronisches Rechnen und Regeln, Berlin; Nat. Prize, Second Class 1951, First Class 1961, Vaterländischer Verdienstorden in Silver. *Address:* 8027 Dresden, Zeunerstrasse 91/48-99, German Democratic Republic. *Telephone:* Dresden 42-6-92, Berlin.

FRÜHBECK DE BURGOS, Rafael; Spanish conductor; b. 15 Sept. 1933, Burgos; s. of Wilhelm and Stephanie (née Ochs) Frühbeck; m. María Carmen Martínez 1959; one s. one d.; ed. music academies in Bilbao, Madrid, and Munich, and Univ. of Madrid; Chief Conductor, Municipal Orchestra, Bilbao 1958-62; Music Dir. and Chief Conductor, Spanish Nat. Orchestra, Madrid 1962-; Music Dir. of Düsseldorf and Chief Conductor Düsseldorf Symphoniker 1966-70; Music Dir. Montreal Symphony Orchestra 1974; Gran Cruz al Mérito Civil Orden de Alfonso X, Orden de Isabel la Católica. *Address:* c/o Harold Holt Ltd., 122 Wigmore Street, London, W1H 0DJ, England; Madrid 7, Reyes Magos 20, Spain (Home). *Telephone:* 252-04-16 (Home).

FRUTON, Joseph Stewart, PH.D.; American biochemist; b. 14 May 1912, Czestochowa, Poland; s. of Charles Fruton and Ella Eisenstadt; m. Sofia Simmonds 1936; ed. Columbia Univ.; Assoc., Rockefeller Inst. for Medical Research 1934-45; Assoc. Prof. of Physiological Chem., Yale Univ. 1945-50, Prof. of Biochem. 1950-57, Chair. Dept. of Biochem. 1951-67, Eugene Higgins Prof. of Biochem. 1957-, Dir. Div. of Science 1959-62; Assoc. Editor Journal of Biological Chemistry and Biochemistry; Harvey Lecturer 1955,

Dakin Lecturer 1962; Visiting Prof. Rockefeller Univ. 1968-69; Sarton Lecturer 1976; Xerox Lecturer 1977; Benjamin Franklin Fellow, Royal Soc. of Arts; mem. American Philosophical Soc., Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Harvey Soc., American Chemical Soc., American Soc. of Biological Chemists, Biochemical Soc., History of Science Soc.; Hon. Sc.D. (Rockefeller Univ.) 1976; Eli Lilly Award in Biological Chem. 1944, Pfizer Award in History of Science 1973. *Publications:* General Biochemistry (with S. Simmonds) 1953 (2nd edn. 1958), Molecules and Life 1972, Selected Bibliography of Biographical Data for the History of Biochemistry since 1800 1974 (2nd edn. 1977); numerous scientific articles in Journal of Biological Chemistry, Biochemistry, Journal of American Chemical Soc., Proceedings of Nat. Acad. of Sciences, and other journals. *Leisure interests:* history of science, music. *Address:* 350 Kline Biology Tower, Yale University, New Haven, Conn. 06520, U.S.A. *Telephone:* 203-436-2644.

FRY, Christopher, F.R.S.L.; British dramatist; b. 18 Dec. 1907, Bristol; s. of Emma Marguerite Hammond and Charles John Harris; m. Phyllis Marjorie Hart 1936; one s.; ed. Bedford Modern School; Actor, Citizen House, Bath 1927; Teacher, Hazelwood Preparatory School 1928-31; Dir. Tunbridge Wells Repertory Players 1932-35; Dir. Oxford Repertory Players 1940 and 1944-46; at Arts Theatre, London 1945; Hon. Dip. Arts (Manchester) 1962; Queen's Gold Medal for Poetry 1962. *Publications:* The Boy with the Cart 1939, The Firstborn 1946, A Phoenix too Frequent 1946, The Lady's Not for Burning 1949, Thor, with Angels 1949, Venus Observed 1950, A Sleep of Prisoners 1951, The Dark is Light Enough 1954, Curtmantle (R. S. L. Heinemann Award) 1962, A Yard of Sun 1970, The Brontës of Haworth (four plays for television) 1973, Can You Find Me 1978; Trans. Ring Round the Moon 1950, The Lark (Anouilh) 1954, Tiger at the Gates 1955, Duel of Angels 1958, Judith (Giraudoux) 1962, Peer Gynt 1970, Cyrano de Bergerac 1975; Film Scripts: The Beggar's Opera. The Queen is Crowned, Ben Hur, Barabbas, The Bible. *Leisure interest:* gardening. *Address:* The Toft, East Dean, nr. Chichester, Sussex, England.

FRY, Donald William, C.B.E., M.SC., C.ENG., F.I.E., F.I.E.E., F.INST.P.; British physicist; b. 30 Nov. 1910, Weymouth, Dorset; s. of William J. and Mary J. (née Symonds) Fry; m. Jessie Florence Wright 1934; three s.; ed. King's Coll., London Univ.; Research Physicist, G.E.C. Research Laboratories 1932-40; with Air Ministry Research Establishment at Swanage and Malvern 1940-46; on staff of Atomic Energy Research Establishment 1946-49; head, Gen. Physics Div. 1950-54, Chief Physicist 1954-58, Deputy Dir. 1958, A.E.R.E., Harwell; Dir. Atomic Energy Establishment, Winfrith 1959-73; awarded Duddell Medal of the Physical Soc. 1950; Fellow King's Coll., London 1960. *Leisure interests:* travel, photography. *Address:* Coveway Lodge, Overcombe, Weymouth, Dorset, England. *Telephone:* Preston 833276.

FRY, E. Maxwell, C.B.E., LL.D., B.ARCH., R.A.R.A., F.R.I.B.A., M.T.P.I.; British architect (retd.); b. 2 Aug. 1899, Wallasey, Cheshire; s. of Ambrose and Lily Fry; m. Jane Drew (q.v.) 1942; three d.; ed. Liverpool Inst., and Liverpool Univ. School of Architecture; studied in Europe and New York; partner Adams, Thompson & Fry 1927-34; with Prof. Walter Gropius 1934-36; served R.E.'s 1939-45; Town Planning Adviser to Resident Minister W. Africa 1943-45; in partnership with Jane Drew (q.v.) 1945-; ■ Senior Architect to Chandigarh, Punjab Govt. Capital Project 1951-54; now consultant to Fry, Drew, and Partners; work includes Impington Village Coll., Ibadan Univ. in Nigeria, Govt. Centre, Mauritius, Schools and Colls. for Gold Coast Govt., Flats and Houses at Harlow New Town, Engineering and Veterinary Buildings, Liverpool Univ. Headquarters, Rolls-Royce Ltd. and Pilkington Brothers Ltd.; Senior Royal Academician; Royal Gold Medal for Architecture 1964. *Publications:* Fine Building (with Jane B. Drew) 1945, Architecture for Children, Architecture in Humid Tropics, Tropical Architecture (with Jane B. Drew) 1964, Art in a Machine Age (1968 R.A. Lectures) 1969, Maxwell Fry: Autobiographical Sketches 1975. *Leisure interests:* reading, drawing, gardening. *Address:* The Lake House, Rowfant, Sussex RH10 4TB. *Telephone:* Pound Hill 2182.

FRY, Thornton Carl, PH.D.; American mathematician; b. 7 Jan. 1892; ed. Findlay Coll. and Wisconsin Univ. Math. Instructor, Wisconsin Univ. 1912-16; with Western Electric Co. 1916-24; on staff of Bell Telephone Laboratories 1924-56, Dir. math. research 1940-44, switching research 1944-47 and eng. 1947-49, Asst. to Exec. Vice-Pres. 1949-51, to Pres. 1951-56; Vice-Pres. and Dir. Univac Eng. Div., Remington Rand 1957-60; Vice-Prs. Research and Eng. Remington Rand Div. of Sperry Rand Corpn. 1960; Consultant to Dir., Nat. Center for Atmospheric Research 1961-67; Consultant and mem. Board of Dirs. Granville-Phillips Co. 1963-70; Consultant, The Boeing Co. 1964-70; Fellow, American Physical Soc., American Assen. for Advancement of Science, American Inst. of Electrical Engineers, etc.; mem. American Math. Soc., American Astronomical Soc., etc.; Hon. D.Sc. Findlay Coll.1958; Presidential Certificate of Merit. *Publications:* Elementary Differential Equations, Probability and its Engineering Uses; numerous articles. *Address:* 500 Mohawk Drive, Boulder, Colo. 80303, U.S.A.

FRYDENLUND, Knut; Norwegian politican; b. 31 March 1927, Drammen; joined Foreign Service 1953; Sec., Norwegian Embassy, Bonn 1953-55; Sec., then Counsellor, Foreign Ministry 1956-62; Press Counsellor, Norwegian Embassy, Brussels 1962-63; Perm. Rep. to Council of Europe 1963-65; Head of Section, Ministry of Foreign Affairs 1966-69; Consultant, Labour Party Research Office 1967-69; mem. Labour Party Oslo Exec. 1968-74, Chair. Int. Cttee. 1971-73; mem. Parl. for Oslo 1969-; mem. Del. to Consultative Assembly, Council of Europe 1970-73; Minister of Foreign Affairs Oct. 1973-. *Address:* Ministry of Foreign Affairs, Oslo Dep., Norway.

FRYE, Herman Northrop, C.C., M.A.; Canadian university professor; b. 14 July 1912, Sherbrooke, Quebec; s. of Herman and Catherine Frye (née Howard); m. Helen Kemp 1937; ed. Univ. of Toronto, Emmanuel Coll., and Univ. of Oxford. Dept. of English, Victoria Coll., Univ. of Toronto 1939-, Chair. of Dept. 1952, Principal of Coll. 1959, Univ. Prof. and Prof. of English in Victoria Coll. 1967, Chancellor 1978-; Foreign mem. American Philosophical Soc. 1976; Hon. Foreign Mem. American Acad. of Arts and Sciences 1969; Corresp. Fellow, British Acad. 1975; Hon. Fellow, Merton Coll. 1973; 26 hon. degrees; Molson Prize 1970; Lorne Pierce Medal, Royal Soc. of Canada 1958, Canada Council Medal 1967, Pierre Chauveau Medal, Royal Soc. of Canada 1970, Royal Bank Award 1978. *Publications:* Fearful Symmetry: A Study of William Blake 1947, Anatomy of Criticism 1957, The Well-Tempered Critic 1963, The Educated Imagination 1963, T. S. Eliot 1963, Fables of Identity 1963, A Natural Perspective 1965, The Return of Eden 1965, Fools of Time 1967, The Modern Century 1967, A Study of English Romanticism 1968, The Stubborn Structure 1970, The Bush Garden 1971, The Critical Path 1971, The Secular Scripture 1976, Spiritus Mundi: Essays on Literature, Myth and Society 1976. *Address:* University of Toronto, Toronto, Ontario M5S 2E1, Canada. *Telephone:* 978-2631.

FRYE, Richard Nelson, PH.D.; American orientalist; b. 10 Jan. 1920, Birmingham, Ala.; s. of Nels Frye and Lillie Hagman; m. 1st Barbara York 1948 (divorced 1973), two s. one d.; m. 2nd Eden Naby 1975; ed. Univ. of Illinois, Harvard Univ., and School of Oriental and African Studies, London; Junior Fellow, Harvard 1946-49; Visiting Scholar, Univ. of Teheran 1951-52; Aga Khan Prof. of Iranian, Harvard 1957-; Visiting Prof., Oriental Seminary, Frankfurt Univ. 1958-59; Visiting Prof., Hamburg Univ. 1968-69; Dir.'Asia Inst., Pahlavi Univ., Shiraz 1969-74; Assoc. Ed. Central Asian Journal, Indo-Iranica (Calcutta); Hon. mem. German Archaeological Soc. *Publications:* Notes on the Early Coinage of Transoxiana 1949, History of the Nation of the Archers 1952, Narshakhi, The History of Bukhara 1954, Iran 1956, Heritage of Persia 1962, Bukhara, The Medieval Achievement 1965, The Histories of Nishapur 1965, Persia 1968, Inscriptions from Dura Europos 1969, Excavations at Qasr-i-Abu-Nasr 1973, The Arabs in the East 1975; Editor Vol. 4 Cambridge History of Iran 1975. *Leisure interests:* fencing, bookbinding. *Address:* 546 Widener Library, Cambridge 38, Mass., U.S.A.

FU CHING-PI; Chinese government official. Commdr., Peking Garrison, PLA 1978. *Address:* People's Republic of China.

FU CHUAN-TSO; Chinese soldier. Div. Commdr., First Field Army 1949; Deputy Commdr., Wuhan Mil. Region, PLA Air Force 1954-, Commdr. 1972; Political Commissar, PLA Air Force 1973-. *Address:* People's Republic of China.

FUCHS, Hans; German international finance official; ed. Technische Hochschule, Stuttgart; with Maschinenfabrik Augsburg-Nurnberg A.G.; joined IBRD (World Bank) as engineer 1956; Asst. Chief, Industry Div. 1963, Deputy Asst. Dir. 1964; Deputy Dir., Dept. of Investments, Latin America, Europe, Australasia, Int. Finance Corpn. (IFC) 1965; Dir. Eng. Dept. IFC 1968-69; Dir. Industrial Projects Dept. IBRD 1969-. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C. 20433, U.S.A.

FUCHS, Sir Vivian Ernest, PH.D., F.R.S.; British geologist and explorer; b. 11 Feb. 1908, Freshwater, Isle of Wight; s. of Ernest and Violet Anne Fuchs (née Watson); m. Joyce Connell 1933; one s. one d. (one d. deceased); ed. St. John's Coll., cambridge; with Cambridge East Greenland Expedition 1929, Cambridge Expedition to East African Lakes 1930-32; Leader, Lake Rudolf Rift Valley Expedition 1933-34; Leader, Lake Rukwa Expedition 1937-38; served Second World War; Commdr. Falkland Islands Dependen-

cies Survey (Antarctica) 1947-50; Dir. Falkland Islands Dependencies Scientific Bureau 1951-60; Dir. British Antarctic Survey 1960-73; Leader, Trans-Antarctic Expedition 1955-58; Hon. Fellow, Wolfson Coll., Cambridge 1970; Hon. LL.D. (Edinburgh, Birmingham), Hon. D.Sc. (Durham) 1958, (Cambridge) 1959, (Wales) 1971, (Leicester) 1972; Founder's Gold Medal (Royal Geog. Soc.) 1951, Polar Medal 1953, Clasp and Bar, Special Gold Medal (Royal Geog. Soc.), 1958, Silver Medal (R.S.A.), Gold Medal (Royal Scottish Geog. Soc.), Richthofen Gold Medal (Berlin Geog. Soc.), Kirchenpauer Gold Medal (Hamburg Geog. Soc.), Gold Medal (Paris Geog. Soc.) 1958, Hubbard Gold Medal (American Nat. Geog. Soc.), Gold Medal (Royal Netherlands Geog. Soc.) 1959, Hans Egede Medal (Royal Danish Geog. Soc.) 1961, Prestwick Medal (Geological Soc., London) 1960. *Publications:* The Crossing of Antarctica (with Sir Edmund Hillary) 1958, Antarctic Adventure 1959; Editor Great Explorers, The Forces of Nature 1976; various geological and geographical papers. *Leisure interests:* squash racquets, swimming. *Address:* 78 Barton Road, Cambridge, England. *Telephone:* 0223-59238.

FUENTES, Carlos; Mexican author and diplomatist; b. 1928, Mexico City; s. of Rafael Fuentes Boettiger and Berta Macías Rivas; m. 1st Rita Macedo 1959, 2nd Sylvia Lemus 1973; one s. two d.; ed. Univ. of Mexico, Inst. des Hautes Etudes Internationales, Geneva; mem. Mexican Del. to ILO, Geneva 1950-52; Asst. Head, Press Section, Ministry of Foreign Affairs, Mexico 1954; Asst. Dir. Cultural Dissemination, Univ. de Mexico 1955-56; Head Dept. of Cultural Relations, Ministry of Foreign Affairs 1957-59; Ed. Revista Mexicana de Literatura 1954-58, Co-Ed. El Espectador 1959-61, Ed. Siempre and Politica 1960-; Amb. to France 1975-77; Fellow, Woodrow Wilson Int. Center for Scholars, Washington, D.C. 1974; Rómulo Gallegos Prize (for Terra Nostra) 1977. *Publications:* Los dias enmascarados 1954, La región más transparente 1958, Las buenas conciencias 1959, Aura 1962, La muerte de Artemio Cruz 1962, Cantar de ciegos 1965, Zona sagrada 1967, Cambio de piel (Biblioteca Breve Prize 1967), Paris, La Revolución de Mayo 1968, La Nueva Novela Hispanoamericana 1969, Cumpleaños 1969, Le Borgne est Roi 1970, Casa con Dos Puertos 1970, Todos los gatos son pardos 1970, Tiempo Mexicano 1971, Don Quixote or the Critique of Reading 1974, Terra Nostra 1975, La Cabeza de la Hidra 1978. *Address:* Editorial Joaquín Mortiz, Tabasco 106, México 7, D.F., Mexico; also c/o Gallimard, 5 rue Sébastien-Bottin, 75007 Paris, France. *Telephone:* 727-2924; 727-1329 (Paris).

FUGARD, Athol; South African actor and playwright; m.; one d.; leading role in Meetings with Remarkable Men (film) 1977, The Guest (BBC production) 1977. *Plays:* The Blood Knot, Hello and Goodbye, People are Living Here, Boesman and Lena 1970, Sizwe Banzi is Dead 1973, The Island 1973, Statements after an Arrest under the Immorality Act 1974, No Good Friday 1974, Nongogo 1974, Dimetos 1976; The Guest (film script) 1977. *Address:* P.O. Box 5090, Walmer, Port Elizabeth, South Africa.

FUGLSANG-DAMGAARD, Hans, D.D.; Danish ecclesiastic; b. 29 July 1890, Oersted; s. of Laurids and Maria Fuglsang-Damgaard; m. Caroline Wagner 1926; three s. one d.; ed. Copenhagen Univ.; Prof. of Theology 1925; Dean of Copenhagen Cathedral 1933; Bishop of Copenhagen and Primate of Denmark 1934; mem. Cttee. of Fourteen, preparing World Council of Churches 1938; Vice-Pres. World Council of Christian Educ. 1947; mem. Publ. Board Lutheran World Review 1948; mem. Cen. Cttee. World Council of Churches 1948; Vice-Pres. The Mission to Lepers 1949; Pres. Internationale Gesellschaft für Religionspsychologie 1952; Chair. Church of Denmark Council of Inter-Church Relations 1954; Pres. Danish Church abroad 1961-; Hon. D.D. (Sopron); Knight Grand Cross of the Order of Dannebrog, Grand Officier, Légion d'honneur, Grand Cross, Ordre de St. Lazare, Frankenhuis Medal, Centenary Medal, Leprosy Mission 1974. *Publications:* Videnskabelig og Kristelig Livstydning 1925, Pariserskolens Teologi 1930, Religionspsykologi 1933, Privatskriftemaalets Fornyelse 1933, Oxford Gruppen 1936, Land, Land, her Herrens Ord 1940, Gud er vor Tilflugt og Styrke 1941, Taler ved Bispevielser 1942, Fest og Alvor i Danmarks Kirke 1946, Kirken og Tiden 1946, The Problem of South Schleswig and the Christian Church 1946, Gudsordet i Atomalderen 1947, Der stander et Hus 1947, Kirken og de Sociale Problemer 1956, Kirken og Diakonien 1957, Menighedsraadene og Folkekirken 1958, Pascals Güdsbegreb 1968, Kirke og Synagoge 1970, Pascal, den Evigt Aktuelle 1971, Fra Freud Til Frankl 1972, Fra Skyttegrav Til Bispestol 1975. *Leisure interests:* flowers, paintings, pictures. *Address:* Österbrogade 114, Copenhagen Ø, Denmark. *Telephone:* Öbro 8723.

FUJI, Katsushi; Japanese politician; ed. Tokyo Univ. mem. of House of Reps. from Okayama Prefecture; fmr. mem. Okayama Prefectural Assembly; fmr. Vice-Chair. Liberal-Democratic Party; Minister of Labour 1977-78. *Address:* c/o House of Representatives, Tokyo, Japan.

FUJII, Shinzo, LL.B.; Japanese business executive; b. 13 Dec. 1893, Osaka; m. 1924; three s.; ed. Tokyo Imperial Univ.; Mitsubishi Shipbuilding and Engineering Co. Ltd. 1918-45; Gen. Man. Kobe Shipyard and Engine Works, Mitsubishi Heavy Industries Ltd. 1945-46, Dir. and Gen. Man. Kobe Shipyard 1946-49, Man. Dir. 1949-50; Pres. Shin Mitsubishi Heavy Industries Ltd. 1950-59, Chair. Board of Dirs. 1959-62, Pres. 1962-64; Pres. Mitsubishi Heavy Industries Ltd. 1964-65, Chair. Board of Dirs. 1965-69, Counsellor 1969-; Blue Ribbon Medal, Second Order of Merit with the Order of the Sacred Treasure. *Leisure interests:* fishing, mahjong, Go. *Address:* Mitsubishi Heavy Industries Ltd., 5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan. *Telephone:* 03-212-3111.

FUJIMOTO, Ichiro, B.ENG.; Japanese metallurgical engineer and steel executive; b. 21 Jan. 1909; ed. Tokyo Univ.; joined Kawasaki Dockyard Co. Ltd. 1932, Man. Rolling Dept. No. 1, Fukiai Works 1945; Dir. Kawasaki Steel Corpn. (a breakaway company of Kawasaki Dockyard) and Asst. Gen. Supt. of Fukiai Works 1953-55, Gen. Supt. of Fukiai Works 1955-57, Man. Dir. Kawasaki Steel Corpn. 1957-62, Senior Man. Dir. 1962-64, Exec. Vice-Pres. 1964-66, Pres. 1966-77, Chair. 1977-; Gisuke Watanabe Award for contribution to devt. of Japanese iron and steel industry 1973. *Address:* Kawasaki Steel Corporation, 1-12-1, Yurakucho, Chiyoda-ku, Tokyo 100, Japan.

FUJIOKA, Shingo; Japanese oil executive; b. 27 June 1901; ed. Keio Univ. Tokyo. Dir. and Gen. Man. Kawasaki Refinery, Mitsubishi Oil Co. Ltd. 1950-55, Man. Dir. Mitsubishi Oil Co Ltd. 1955-61, Pres. 1961-73, Chair. 1973-74, Dir. and Sr. Adviser 1974-75, Auditor 1975-; mem. Cttee. World Petroleum Congresses 1961–, Petroleum Deliberative Council 1963-; Pres. Japan Petroleum Assen.; Blue Ribbon Award 1963. *Address:* Petroleum Association of Japan, Keidanren Kaikan, 5, 1-5-7 Ohtemachi, Chiyoda-ku, Tokyo, Japan.

FUJISAKI, Akira, LL.B.; Japanese business executive; b. 1 May 1917, Kagoshima; s. of Kokichi Fujisaki and Misako Morita; m. Sakae Ishida 1951; one d.; ed. Tokyo Imperial Univ.; joined Sumitomo Mining Co. Ltd. (later Sumitomo Metal Mining Co. Ltd.) 1942, Controller 1964, Dir. 1967, Man. Dir. 1970, Pres. 1973-; Pres. Japan Mining Industry Assen. 1976-77; Exec. Dir. Fed. of Econ. Orgs. 1976-; Vice-Chair. Japan Cttee. for Econ. Devt. 1977-. *Leisure interests:* golf, reading. *Address:* Sumitomo Metal Mining Co. Ltd., 11-3, 5-chome, Shimbashi, Minato-ku, Tokyo (Office); 2-7-14, Nishi-Kamakura, Kamakura-shi, Kanagawa Prefecture, Japan (Home). *Telephone:* 03-434-2211 (Office); 0467-32-6233 (Home).

FUJISAWA, Tokusaburo; Japanese business executive; b. 13 Sept. 1907, Tokyo; s. of Miki and Yoshiyasu Fujisawa; m. Kazuko Kanai 1934; two s.; ed. Tokyo Univ. of Commerce; Bank of Japan 1930-62, Chief of Admin. Dept. 1952-54, of Foreign Exchange Dept. 1954-56, Bank of Japan Rep., New York 1956-58, Chief of Bank Relations and Supervision Dept. 1958-59, Dir. Bank of Japan, concurrently Man. Osaka Branch 1959-62; Vice-Pres. Export-Import Bank of Japan 1962-70; Pres. Tokyo Small Business Investment Co. 1970-. *Leisure interests:* go, haiku, golf. *Address:* Tokyo Small Business Investment Co., 2-47 Kabuto-cho, Nihonbashi-ku, Tokyo (Office); 13-10, No. 3 Naka-ochiai, Shinzyuku-ku, Tokyo, Japan (Home). *Telephone:* 952-0760.

FUJITA, Masaaki; Japanese politician; b. 1922; ed. Waseda Univ.; began career with Fujita Corpn., construction firm, now Adviser; elected twice to House of Councillors from constituency in Hiroshima Prefecture 1965-; fmr. Chair. House of Councillors Finance Cttee.; Parl. Vice-Minister of Finance; Chair. Diet Policy Cttee. of Democratic Party (LDP); assoc. of Masayoshi Ohira (q.v.); Minister of State, Dir.-Gen. of Admin. Affairs in Office of Prime Minister, Dir.-Gen. Okinawa Devt. Agency 1976-77. *Address:* c/o Office of the Prime Minister, Tokyo, Japan.

FUJIYAMA, Aiichiro; Japanese businessman and politician; b. 22 May 1897, Tokyo; s. of Raita Fujiyama and Mine Fujiyama; m. Hisako Yuki; one s. one d.; ed. Keio Univ.; Pres. Dai Nippon Sugar Manufacturing Co. 1934 and Nitto Chemical Industry 1937; Pres. Japan Air Lines 1951, Adviser 1953-; Pres. Japan and Tokyo Chambers of Commerce 1951-57; Pres. Japan Fed. UNESCO Assens. 1951-; Pres. Advertising Fed. 1953-; Dir. Int. Telegraph and Telephone Co. 1953-; mem. Council of Int. Chamber of Commerce 1954-; Pres. Soc. for Econ. Co-operation in Asia 1954-61; Minister

for Foreign Affairs 1957-60; mem. House of Reps. 1958-; State Minister in charge of Econ. Planning Board 1961-62, 1965-66; Pres. Assen. for the Promotion of Int. Trade. 1973-. *Publications:* Shacho gurashi Sanju-nen 1952, Okyaku-shobai 1953, Kuchibeni-kara kikansha-made 1953. *Leisure interest:* painting. *Address:* 21-1-1, Shirogane-dai, Minato-ku, Tokyo, Japan.

FUJIYOSHI, Tsuguhide; Japanese business executive; b. 24 Jan. 1913, Fukuaka; s. of late Kiichi and of Haruko Fujiyoshi; m. Yukho 1941; three s. two d.; ed. Tokyo Univ.; joined Toyo Rayon Co. Ltd. (now Toray Industries Inc.) 1935, Hamburg Office 1960-61, Man. Nagoya Plant 1961, Dir. 1962, Man. Dir. 1964, Exec. Vice-Pres. 1966, Pres. 1971-. *Leisure interest:* golf. *Address:* Toray Industries Inc., 2-chome, Nihonbashi-Muromachi, Chuo-ku, Tokyo 103 (Office); Room 605, Takanawa Sky Mansion, 8-6 Takanawa 4-chome, Minoto-ku, Tokyo 108, Japan (Home). *Telephone:* 03-445-6511.

FUKUDA, Hajime; Japanese politician; b. 1902; ed. Tokyo Univ.; Reporter, Political Editor, Kyodo News Service; mem. House of Reps. for Fukui Pref. 1949-; fmr. Parl. Vice-Minister of Labour; Minister of Int. Trade and Industry 1962, for Home Affairs 1972-73, 1974-76, of Justice 1976-77; Liberal-Democratic Party. *Address:* c/o House of Representatives, Tokyo, Japan.

FUKUDA, Takeo; Japanese politician; b. 14 Jan. 1905; ed. Tokyo Imperial Univ.; with Ministry of Finance 1929-50, Deputy Vice-Minister 1945-46, Dir. of Banking Bureau 1946-47, Dir. Budget Bureau 1947-50; mem. House of Reps. 1952-; Chair. Policy Board Liberal-Democratic Party, later Sec.-Gen.; fmr. Minister of Agric. and Forestry; Minister of Finance 1965-1966; Sec.-Gen. Liberal-Democratic Party, Pres. Liberal-Democratic Party 1966-68; Minister of Finance 1968-71, 1973-74, of Foreign Affairs 1971-72; Dir.-Gen. Admin. Man. Agency 1972-73; Deputy Prime Minister, Dir. of Econ. Planning Agency 1974-76 (resgnd.); Prime Minister, Pres. Liberal-Democratic Party 1976-78. *Address:* House of Representatives, Tokyo; 1-247 Nozawamachi, Setagaya-ku, Tokyo, Japan.

FUKUHARA, Nobusaku, D.SC.; Japanese business executive; b. 12 Nov. 1911, Ginza, Chuo-ku, Tokyo; s. of Sinichi and Yone Fukuhara; m. Minae Yamawaki 1934; one s. two d.; ed. Yokohama Technical Coll. (now Yokohama Nat. Univ.) and Duke Univ., U.S.A.; joined Shiseido Co. Ltd. 1932, Dir. 1952, Man. Dir. 1962, Senior Man. Dir. 1973, Pres. 1975-78, Chair. 1978-; mem. Presidium, Int. Fed. of Socs. of Cosmetic Chemists 1973-, Chair. and Pres. Soc. of Cosmetic Chemists of Japan 1978-. *Leisure interests:* photography, golf, tennis. *Address:* Shiseido Company Ltd., 5-5, Ginza 7-chome, Chuo-ku, Tokyo (Office); 2-18-5 Minami-senzoku, Ohta-ku, Tokyo, Japan (Home). *Telephone:* 572-5111 (Office); 727-3902 (Home).

FUKUNAGA, Kenji; Japanese politician; mem. House of Reps. for Saitama Prefecture; fmr. Chief Sec. to Cabinet to Premiers Yoshida and Sato; Minister of Labour 1961-62, of Health and Welfare Nov.-Dec. 1974, of Transport 1977-78; fmr. Chair. Liberal-Democratic Party Presidential Election Cttee.; Special Envoy to UN 1971, to Israel 1972; Chair. Tokyo meeting of the Inter-Parl. Union 1974. *Address:* c/o House of Representatives, Tokyo, Japan.

FULBRIGHT, (James) William, LL.B., M.A.; American politician; b. 9 April 1905; m. Elizabeth Kremer Williams 1932; two d.; ed. Univ. of Arkansas, Oxford Univ. and George Washington Univ. Special Attorney Anti-Trust Div., U.S. Dept. of Justice 1934-35; Instructor in Law, George Washington Univ. 1935-36; Lecturer in Law Univ. of Arkansas 1936-39, Pres. 1939-41; mem. 78th Congress (1943-45), 3rd District, Arkansas; U.S. Senator from Arkansas 1945-74; Chair. Senate Cttee. Foreign Relations 1959-74; counsellor Hogan & Hartson, Washington 1975-; Legal Counsel for United Arab Emirates 1976-; Japan Foundation Award 1974, Hon. K.B.E. 1975, Benjamin Franklin Medal (R.S.A.) 1977; Democrat. *Publications:* Old Myths and New Realities 1964, Prospects for the West 1965, The Arrogance of Power 1967, The Crippled Giant 1972. *Address:* Fayetteville, Ark. 72701, U.S.A.

FULLA, Ludovit; Czechoslovak painter; b. 27 Feb. 1902, Ružomberok; ed. School of Fine and Applied Arts, Prague. Prof. at School of Arts and Crafts, Bratislava 1929-38, Dir. 1938-39; schoolteacher, Bratislava 1949-52; Asst. Prof. Art Coll., Bratislava 1949-52; over 800 works, including stage designs, paintings, designs for tapestries, graphic works and book illustrations; exhibited at Venice Biennials 1934, 1942, 1954, 1956, 1962, Brussels Int. Exhbn. 1935, 1958, Milan Triennial 1936, Paris World Fair 1937, São Paulo Biennial 1957, Moscow 1958-59, Second Int. Tapestry Biennial, Lausanne 1956; Grand Prix and Silver Medal, Paris 1937, Gold Medal and Diploma, Int. Brussels Exhbn. 1958, Order of Labour 1962, Nat. Artist 1963, State Prize 1966, 1969, Order of the Repub. 1972, Hon. Dip. of Hans C. Andersen (awarded by 15th IBBY Congress) 1976. *Publications:* Fulla to Children (rhymes, fairy-tales and stories with author's illustrations) 1974. *Address:* Union of Slovak Artists, Ružomberok, Galeria, Czechoslovakia.

FULLER, Richard Buckminster; American geometer, educator, architect-designer; b. 12 July 1895, Milton, Mass.; s. of Richard Buckminster and Caroline Wolcott (Andrews) Fuller; m. Anne Hewlett 1917; two d. (one deceased); ed. Milton Acad. Harvard Univ., Annapolis Naval Acad. Asst. Export Man. Armour & Co. 1919-21; Nat. Accounts Sales Man. Kelly-Springfield Truck Co. 1922; Pres. Stockade Building System 1922-27; Founder Pres. 4-D Co., Chicago 1927-32; Founder, Dir. and Chief Engineer Dymaxion Corpn. 1932-35; Asst. to Dir. of Research and Devt., Phelps Dodge Corpn. 1936-38; Tech. Consultant Fortune magazine 1938-40; Vice-Pres. and Chief Engineer, Dymaxion Co. Inc. 1940-50; Chief, Mechanical Eng. Section, Board of Econ. Warfare, Special Asst. to Dir. Foreign Econ. Admin. 1942-44; Chair. Dymaxion Dwelling Machines 1944-46; Pres. Geodesics Inc. 1949-, Synergetics Inc. 1954-59, Plydomes Inc. 1957-; Prof. of Generalised Design Science Exploration, Southern Ill. Univ. 1959-68, Distinguished Prof. 1968, later Prof. Emer.; The Charles Eliot Norton Prof. of Poetry, Harvard Univ. 1961-62; Int. Pres. Mensa 1975, World Soc. for Ekistics; Fellow and life mem. A.A.A.S.; World Fellow in Residence Univ. of Pa. (later Prof. Emer.), Bryn Mawr, Haverford and Swarthmore Colls., Univ. City Science Center; hon. life mem. American Inst. of Architects; inventor-discoverer of energetic-synergetic geometry and of geodesic and tensegrity structures; built domes for U.S. Marine Corps and U.S. Navy (in all over 100,000 geodesic domes in 100 countries, including geodesic dome for Expo '67, Montreal 1967); 40 hon. degrees in Design, Arts, Science, Humane Letters, Laws, Fine Arts, Literature, Eng. and Architectural Eng. 1954-75; Gold Medal for Architecture, Royal Inst. of British Architects 1968, Gold Medal, American Inst. of Architects 1970. *Publications:* 4D Timelock 1927, Nine Chains to the Moon 1938, The Dymaxion World of Buckminster Fuller (with Robert Marks) 1960 (rev. 1973), No More Second-Hand God 1972, Untitled Epic Poem on the History of Industrialization 1963, Education Automation 1963, Ideas and Integrities 1963, Operating Manual for Spaceship Earth 1969, Utopia or Oblivion: the Prospects for Humanity 1969, Intuition 1972, Earth, Inc. 1973, Synergetics: Explorations in the Geometry of Thinking 1975, Vol. 2 1979, And It Came to Pass 1976. *Address:* 3500 Market Street, Philadelphia, Pa. 19104, U.S.A. *Telephone:* (215) 387-2255.

FULLER, Roy Broadbent, C.B.E., F.R.S.L.; British solicitor, author and poet; b. 11 Feb. 1912, Failsworth, Lancashire; s. of Leopold Charles Fuller and Nellie Broadbent; m. Kathleen Smith 1936; one s.; Asst. Solicitor, Woolwich Equitable Building Soc. 1938, Solicitor 1958-69, Dir. 1969; Prof. of Poetry, Oxford Univ. 1968-73; war service in Royal Navy 1941-46; Chair. Building Socs. Assen. Legal Advisory Panel 1958-69; Vice-Pres. Building Socs. Assen.; mem. Arts Council Poetry Panel 1955-59, Board Poetry Book Soc. 1960-76, Arts Council 1976-77, Library Advisory Council for England 1977-; Gov. BBC 1972-; Duff Cooper Memorial Prize 1968; Queen's Medal for Poetry 1970. *Publications:* The Middle of a War 1942, A Lost Season 1944, Epitaphs and Occasions 1949, Counterparts 1954, Brutus's Orchard 1957, Collected Poems 1962, Buff 1965, New Poems 1968, Seen Grandpa Lately? 1972, Tiny Tears 1973, From the Joke Shop 1975, An Ill-Governed Coast 1976, Poor Roy 1977; Novels: The Second Curtain 1953, Fantasy and Fugue 1954, Image of a Society 1956, The Ruined Boys 1959, The Father's Comedy 1961, The Perfect Fool 1963, My Child, My Sister 1965, The Carnal Island 1970; Edited: The Building Societies Acts; Criticism: Owls and Artificers 1972, Professors and Gods 1973. *Address:* 37 Langton Way, London, S.E.3, England. *Telephone:* 01-858 2334.

FULTON, Baron (Life Peer), cr. 1966, of Falmer; **John Scott Fulton,** Kt.; British administrator; b. 27 May 1902, Monifieth, Angus, Scotland; s. of Prof. A. R. Fulton and Annie Alexander Scott; m. Jacqueline Wilkinson 1939; three s. one d.; ed. Dundee High School, St. Andrews Univ. and Balliol Coll., Oxford. Asst. in Logic and Scientific Method, London School of Econs. 1926-28; Fellow, Balliol Coll., Oxford 1928-47, Tutor in Philosophy 1928-35, in Politics 1935-47; Jowett Lecturer 1935-38, Jowett Fellow 1945-47; Faculty Fellow, Nuffield Coll. 1939-47; Principal Asst. Ministry of Fuel and Power 1942-44; Principal, Univ. Coll. of Swansea 1947-59; Vice-Chancellor, Univ. of Sussex 1959-67; Chair. Board for Mining Qualifications 1950-62, Univs. Council for Adult Educ. 1952-55, Univs. Central Council on Admissions (UCCA) 1961-64, B.B.C. Liaison Advisory Cttee. on Adult Educ. 1962-65, I.T.A.

Adult Educ. Advisory Cttee.; Chair. Inter-Univ. Council for Higher Educ. Overseas 1964-68, Exec. Vice-Chair. 1968-; Chair. Tavistock Inst. of Human Relations 1968-; Gov. and Vice-Chair. B.B.C. 1965-67; Chair. of Cttee. to examine Structure, Recruitment, Training and Man. of Home Civil Service 1966-68; Chair. British Council 1968-71; Chair. Council, London Univ. Inst. of Educ. 1967-; Chair. Manpower Soc. 1973-. *Publications:* In Defence of Democracy (with C. R. Morris) 1935, various articles in learned journals. *Leisure interests:* golf, gardening, hill-climbing. *Address:* Brook House, Priestman's Lane, Thornton-le-Dale, Pickering, Yorkshire, England. *Telephone:* Thornton-le-Dale 221.

FUMAGALLI, Guido; Italian businessman; b. 12 Oct. 1902; ed. Istituto Tecnico C. Cattaneo, Milan. Comm. Agent Stock Exchange, Milan 1946-56; Stockbroker, Milan 1956-; mem. Stock Exchange Cttee. 1963-64, Pres. 1965-70; Pres. Union of Italian Stock Exchange Cttees. 1965-; Cavaliere Ufficiale della Corona d'Italia. *Address:* Via Meravigli 16, Milan; and Viale Romagna 5, Milan, Italy.

FUNAHASHI, Masao; Japanese business executive; b. 3 May 1913, Aichi Pref.; s. of Azuma and Suzu Funahashi; m. Keiko Matsubara 1946; one s. one d.; ed. Tokyo Univ. Man. Purchasing Dept., Furukawa Electric Co. Ltd. 1959, of Finance and Accounting Dept. 1961, Man. Dir. 1968, Exec. Dir. 1971, Vice-Pres. 1973, Pres. 1974-. *Leisure interest:* golf. *Address:* c/o Furukawa Electric Co. Ltd., 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan. *Telephone:* Tokyo (03) 286-3010 (Office).

FUNCKE, Friedrich, D.IUR.; German business executive; b. 27 Sept. 1903, Kamen, Hamm; s. of Friedrich Funcke, Dr. Ing. and Ida (née von Velsen) Funcke; m. Elisabeth Sasse 1955; one s. two d.; ed. Univs. of Freiburg, Berlin and Erlangen; joined Gelsenkirchener Bergwerks-Aktien-Gesellschaft (coal mining) 1931, mem. Man. Board 1945-67; Chair. of Man. Board Gelsenberg AG, Essen 1966-69; mem. Advisory Bd. Westdeutsche Wohnhäuser AG, Essen; mem. Bd. Aktionsgemeinschaft Deutsche Steinkohlenreviere GmbH, Düsseldorf. *Leisure interests:* shooting and golf. *Address:* 4300 Essen-Bredeney, Brucker Holt 27, Federal Republic of Germany.

FUNCKE, Liselotte; German politician; b. 20 July 1918, Hagen; d. of Oscar Funcke and Bertha (née Osthaus) Funcke; ed. commercial studies in Berlin; fmrly. in industry and commerce, Hagen and Wuppertal; mem. Diet of North-Rhine-Westfalia 1950-61; mem. Bundestag 1961-, Vice-Pres. Bundestag 1969-; Chair. Bundestag Finance Cttee. 1972-; mem. Presidium, FDP 1968-, Deputy Chair. FDP 1977-. *Address:* Bundestag, 53 Bonn (Office); 58 Hagen, Stadtgarten-Allee 1, Federal Republic of Germany (Home). *Telephone:* Hagen 24055.

FUNÈS, Louis de; French actor; b. 31 July 1914. *Plays include* Winterset, Un tramway nommé Désir, Ornifle, Les belles bacchantes, Faisons un rêve, Oscar, La grosse valse, La valse des toréadors 1973, Hiberbatus 1974; *films include* Le blé en herbe, Mam'zelle Nitouche, Papa, Maman, la bonne et moi, L'impossible Monsieur Pipelet, Courte tête, La traversée de Paris, Un cheveu sur la soupe, Ni vu ni connu, La vie à deux, Certains l'aiment froide, Mon pote le gitan, Chair à poisson, Candide, Les Dix Commandements, Le Gendarme de Saint-Tropez, Le Corniaud, Les bons vivants, Le gendarme à New York, Fantomas se déchaine, Le grand restaurant, La grande vadrouille, Oscar, Les grandes vacances, Fantomas contre Scotland Yard, Le petit baigneur, Le tatoué, Le gendarme se marie, Un coup sumant, Hibernatus, L'homme orchestre, Le gendarme en ballade, Sur un arbre perché, Les adventures de Rabbi Jacob, L'aile ou la cuisse 1976. *Address:* 45 rue de Monceau, 75008 Paris, France.

FUNKE, Gösta Werner, PH.D.; Swedish scientist and administrator; b. 27 Oct. 1906, Stockholm; s. of Oscar Werner Funke and Sofia Carlsson; m. Gunborg Blomquist 1935; two d.; ed. Univ. of Stockholm, and Technische Hochschule, Darmstadt; Lecturer in Physics, Univ. of Stockholm 1937-41; Prof. Tech. Coll., Norrköping 1939-43, Bromma Coll. 1943-45; Sec.-Gen. Swedish Atomic Cttee. 1945-59; mem. Swedish Nat. Cttee. for UNESCO 1957-60; Sec.-Gen. Swedish Nat. Science Research Council 1945-72, Swedish Atomic Research Council 1959-72; mem. Joint Cttee. for the Nordic Research Councils 1948-72; Swedish Rep. to CERN 1953-72; Pres. of Finance Cttee. 1961-64, Pres. of Council 1966-69; Swedish Rep., European Southern Observatory (ESO) 1961-72, Pres. of Council 1966-68; Swedish rep. on many cttees. concerning Nordic or int. collaboration in different fields of science; mem. Swedish Acad. of Eng. Sciences 1968-; Riddare av Vasaorden, Kommendör av Nordstjärneorden, Commdr. Ordre national du Mérite (france). *Publications:* Text Book of Mathematics 1940, Sverige inför atomåldern 1956, Introduktion till naturvetenskaplig forskning i Sverige 1963; articles in specialized journals. *Leisure interest:* gardening. *Address:* San Rafael 89, Alfaz del Pí, Alicante, Spain.

FUNSTON, George Keith; American executive; b. 12 Oct. 1910; ed. Sioux Falls High School, Trinity Coll., Hartford, Conn., and Harvard School of Business Admin.; Asst. to Vice-Pres. in Charge of Sales, American Radiator and Standard Sanitary Corpn. 1935-38, Asst. to Treas. 1938-40; Sales-Planning Dir., later Dir. of Purchases, Sylvania Electric Products, Inc. 1940; War Production Bd. 1941-44; Lieut.-Commdr. U.S. Navy 1944-45; Pres. Trinity Coll., Hartford, Conn. 1944-51; Pres. New York Stock Exchange 1951-67; Chair. Olin Mathieson Chemical Corpn. 1967-72; Dir. Metropolitan Life Insurance Co., and several other companies; 22 hon. degrees from American univs. *Address:* Vineyard Lane, Greenwich, Conn. 06830, U.S.A.

FUOSS, Raymond Matthew, PH.D.; American chemist; b. 28 Sept. 1905, Bellwood, Pa.; s. of Jacob Z. Fuoss and Bertha M. Zimmerman Fuoss; m. 1st Rose E. Harrington 1926, one d.; m. 2nd Ann M. Stein 1947; ed. Harvard Univ., Brown Univ., and Univs. of Leipzig, Munich and Cambridge; Research Instructor, Brown Univ. 1932-33; Int. Post-doctoral Research Fellow, Leipzig and Cambridge 1933-35; Research Prof. Brown Univ. 1935-36; Research, Gen. Electric Co., Schenectady, N.Y. 1936-45; Sterling Prof. of Chem. Yale Univ. 1945-74, Emer. Prof. 1974-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, and American Chem. Soc. (Pure Chem. Award 1935). *Publications:* over 270 research papers on electrolytes, polymers and dielectrics 1925-. *Leisure interests:* languages, music. *Address:* Sterling Chemistry Laboratory, Yale University, New Haven, Conn. 06520 (Office); 68 North Lake Drive, Hamden, Conn. 06517, U.S.A. (Home). *Telephone:* (203) 436-8139 (Office); (203) 248-3428 (Home).

FUOSS, Robert; American editor; b. 16 Dec. 1912; ed. Michigan Univ.; Ed. Saline Observer 1933; salesman Vick Chemical Co.; Batten, Barton, Durstine and Osborn, Inc., advertising; Promotion Man. Country Gentleman 1937-39; Promotion Man. Saturday Evening Post 1939-42, Man. Ed. 1942-55, Exec. Ed. 1955-62, Vice-Pres., Public Relations 1962-64; Senior Ed. Reader's Digest 1964-65, Exec. Vice-Pres. 1965-, mem. Man. Cttee. 1965-; Trustee Dickenson Coll., Pa. 1966-; Board of Dirs. Presbyterian Life, Philadephia 1965-; Dir.-at-Large, Nat. Retail Merchants' Assn. 1967-; Distinguished Service Award, Overseas Press Club 1961. *Address:* c/o Reader's Digest, Pleasantville, N.Y. 10570, U.S.A.

FÜRER, Arthur Carl Othmar, D.IUR., D.ECON.; Swiss lawyer and business executive; b. 18 Dec. 1920, Gossau; s. of Carl and Clara Fürer (née Staub); m. Bea Hofer 1951; one s.; ed. Gymnasium Feldkirch, Austria, Univs. of Fribourg, Berne and St.-Gall; practised as Attorney in St.-Gall 1944-46; joined Société pour le Développement de l'Economie Suisse, Zürich 1946-47; Legal Adviser and Man. Sec. to Georg Fischer AG, Schaffhausen 1947-54; with Nestlé Alimentana S.A., Vevey 1954-, Gen. Man. 1969, Man. Dir. 1975-; Dir. Soc. Suisse des Industries Chimiques, Swiss Nat. Bank, Groupement de Holdings Industrielles Suisses. *Address:* Nestlé Alimentana S.A., Avenue Nestlé, 1800 Vevey (Office); Chemin des Roches CH-1803 Chardonne, Switzerland (Home). *Telephone:* 021-51-01-12 (Office); 021-51-47-94 (Home).

FURGLER, Kurt, DR.IUR.; Swiss lawyer and politician; b. 24 June 1924, St.Gall; m. Ursula Stauffenegger; two s. four d.; ed. Univs. of Fribourg, Zurich, Geneva, Grad. Inst. for Int. Studies, Geneva; Lawyer, St.-Gall 1950-71; mem. Nat. Council 1955-71; Leader of Christian Dem. Party Group in Fed. Council; mem. Fed. Council Jan. 1972-, Vice-Pres. Jan.-Dec. 1976, Pres. Jan.-Dec. 1977; Head of Dept. of Justice and Police Jan. 1972-. *Leisure interests:* sport, music, literature. *Address:* Berne, Bundeshaus West, Switzerland. *Telephone:* 61-41-11.

FURSTENBERG, H.E. Cardinal Maximilian van; Belgian ecclesiastic; b. 23 Oct. 1904; ordained Priest 1931; Titular Archbishop of Palto 1949-; also Apostolic Nuncio in Portugal until 1967; Head of Sacred Congregation for the Eastern Churches 1968-; created Cardinal by Pope Paul VI 1967. *Address:* Piazza del Sant'Ufficio 11, 00193 Rome, Italy. *Telephone:* 698-4878.

FURTH, Warren Wolfgang, A.B., J.D.; American lawyer and international official; b. 1 Aug. 1928, Vienna, Austria; s. of John W. Furth and Hedwig von Ferstel; m. Margaretha F. de la Court 1959; one s. one d.; ed. Harvard Coll., and Harvard Law School; Law Clerk, Palmer, Dodge, Gardner, Bickford & Bradford, Boston, Mass. 1951; admitted to New York Bar 1952; Law Clerk to Hon. H.M. Stephens, Chief Judge, U.S. Court of Appeals, Dis. of Columbia Circuit 1952-53; U.S. Army 1954-57; Assoc. Cravath, Swaine & Moore (law firm) 1957-58; with ILO, Geneva 1959-70; Exec. Asst. to Dir.-Gen. 1964-66, Chief of Tech. Co-operation Branch and Deputy Chief, Field Dept. 1966-68, Deputy Chief, later Chief, Personnel and Admin. Services Dept. 1968-70; Asst. Dir.-Gen. WHO 1971-; mem. American Bar Assn. *Publication:* WHO's strat-

egy for meeting the 60% technical co-operation target (WHO Chronicle 1931) 1977. *Address:* World Health Organization, avenue Appia, 1211 Geneva (Office); 13 route de Presinge, 1249 Puplinge (Geneva), Switzerland (Home). *Telephone:* 50-14-22.

FURUI, Yoshimi; Japanese politician. Member House of Reps. from Tottori; fmr. Vice-Minister of Home Affairs; fmr. Health and Welfare Minister; Vice-Chair. Liberal Democratic Party Policy Affairs Research Council; Chair. LDP Research Comm. on Security; Minister of Justice Dec. 1978-. *Address:* House of Representatives, Tokyo, Japan.

FURUKAWA, Susumu, B.A.; Japanese banker; b. 19 Aug. 1913, Saga Prefecture; m. Kimiko Furukawa; four s.; ed. Kyoto Univ.; entered Nomura Bank (now Daiwa Bank) 1938, Gen. Man. Business Dept. 1961, Dir. 1961, Man. Dir. 1963, Senior Man. Dir. 1966, Deputy Pres. 1968, Pres. 1973-77, Chair. 1977-. *Leisure interests:* haiku (seventeen-syllabled poem), golf. *Address:* Daiwa Bank Ltd., 21 Bingomachi, 2-chome, Higashiku, Osaka 541 (Office); 13-7, 2-chome, Furuedai, Suita City, Osaka, Japan (Home).

FUSCO, Dott. Stanislao; Italian banker; b. 13 July 1894, Naples; associated with Banca Commerciale Italiana 1924-48; Gen. Man. Banco di Napoli 1948-65, Chair. 1965-75; Vice-Pres. Azienda Tabacchi Italiani (ATI), Inst. for the Econ. Devt. of Southern Italy (ISVEIMER); Dir. Italian Section, Int. Chamber of Commerce; Dir. and mem. Board, Associazione Bancaria Italiana, Assicurazioni Generali; Dir. Instituto Mobiliare Italiano (IMI); Dir. Soc. Storia di Napoli, Centro Azione Latina, Anciennes Institutions de Crédit Italiennes; Cavaliere del Lavoro, Cavaliere Mauriziano, Gran Croce Magistrale dell'Ordine di Malta, Grande Ufficiale della Corona d'Italia, Cavaliere di Gran Croce al Merito della Repubblica, Chevalier Légion d'honneur, Commdr. Ordre national du Mérite. *Address:* c/o Banco di Napoli, Via Roma 177, Naples, Italy.

FUSON, Reynold Clayton, M.A., D.SC., PH.D.; American chemist; b. 1 June 1895, Wakefield, Ill.; s. of John and Jennie (née Chesnut) Fuson; ed. Univs. of Montana, California and Minnesota. Nat. Research Fellow, Harvard Univ. 1924-26, Instructor 1926-27; Assoc. in Chem., Univ. of Illinois 1927-28, Asst. Prof. 1928-30, Assoc. Prof. 1930-32, Prof. of Organic Chem. 1932-63, Prof. Emer. 1963-; Prof. of Chem, the Rice Inst. 1947-48; Visiting Prof. Univ. of Nevada 1963-66, Prof. Emer. 1966-; mem. Nat. Acad. of Sciences, Center for Advanced Study; William H. Nichols Medal 1953, College Chem. Teacher Award, Mfg. Chemists' Assn. 1960, John R. Kuebler Award 1964, Distinguished Achievement Award, Univ. of Minnesota 1951, Distinguished Service Award, Univ. of Montana 1973. *Publications:* A Brief Course in Organic Chemistry (with others) 1941, 1959, Advanced Organic Chemistry 1950, Organic Chemistry (with H. R. Snyder) 1955, The Systematic Identification of Organic Compounds (with others) 1956, Reactions of Organic Compounds 1962. *Address:* 1442 Hillside Drive, Reno, Nevada 89503, U.S.A. *Telephone:* 786-6974.

G

GABALDÓN, Arnoldo; Venezuelan malariologist; b. 1 March 1909, Trujillo; s. of Joaquín Gabaldón and Virginia Carillo de Gabaldón; m. María Teresa Berti 1937; two s. three d.; ed. Universidad Central de Venezuela, Hamburg Inst. of Tropical Diseases and Johns Hopkins Univ.; Hospital Intern, Caracas 1928-30; Lab. Asst. Bacteriological and Parasitological Lab., Caracas 1930-32; Health Officer, San Fernando, Apure 1932-33; Rockefeller Fellow, Johns Hopkins Univ. 1934-36; Chief Div. of Malariology, Ministry of Health 1936-50; Tech. Consultant, WHO Anti-Malaria Operations, India 1950; Dir. Inst. of Aphtous Fever, Ministry of Agric., Venezuela 1950; Consultant Div. of Malariology, Ministry of Health and Social Assistance 1951-59; Tech. Consultant, Panamerican Sanitary Org. 1954, Panamerican Sanitary Office Anti-Malaria Campaign, Trinidad 1957; Minister of Health and Social Assistance, Venezuela 1959-64; mem. Venezuelan Nat. Acad. of Medicine; Consultant, Bureau of Malariology and Environmental Health, Ministry of Health and Social Assistance, Venezuela 1964-73; Simón Bolívar Prof. of Latin American Studies, Univ. of Cambridge 1968-69; Dir. Lab. for Malaria Studies, Nat. Inst. of Hygiene, Caracas. *Publications:* numerous studies on malaria, public health and parasitology, Una Política Sanitaria 1965. *Leisure interests:* hunting, fishing. *Address:* Apartado 5387, Caracas 101, Venezuela.

GABALLAH EL-SAYED, Sayed; Egyptian politician; ed. Cairo and Wisconsin Univs.; Teacher, Cairo Univ., Head Agric. Econ. Section; Under-Sec. of State for Planning 1963-71; Minister for Planning 1971-74. *Address:* c/o Ministry of Planning, Cairo, Egypt.

GABRE-SELLASSIE, Zewde, PH.D.; Ethiopian diplomatist; b. 12 Oct. 1926, Metcha, Shoa; ed. Haile Sellassie I Secondary School, Coll. des Frères and St. George School, Jerusalem, Coll. des Frères and American Mission, Cairo, Univ. of Exeter, Oxford Univ. and Lincoln's Inn, London; Econ. Attaché, later Head of Press, Information and Admin. Div., Ministry of Foreign Affairs 1951-53; Dir.-Gen. Maritime Affairs 1953-55; Deputy Minister, Ministry of Public Works, Transport and Civil Aviation 1955-57; Mayor and Gov. of Addis Ababa 1957-59; Amb. to Somalia 1959-60; Minister of Justice 1961-63; Senior mem. St. Antony's Coll., Oxford 1963-71; Perm. Rep. to the UN 1972-74; Minister of Interior March-May 1974, of Foreign Affairs May-Dec. 1974; Deputy Prime Minister July-Sept. 1974; Visiting lecturer, Univ. of Calif., U.S.A. 1965; Vice-Pres. ECOSCO 1974; Officer of Menelik II (Ethiopia), Grand Cross, Order of Phoenix (Greece), of Istiqlal (Jordan), Grand Officer Flag of Yugoslavia, Order of Merit (Fed. Repub. of Germany), Commdr. Order of St. Olav (Norway), of Orange-Nassau (Netherlands). *Address:* c/o Ministry of Foreign Affairs, Addis Ababa, Ethiopia.

GABRIEL, Ralph Henry, PH.D., LITT.D.; American historian; b. 29 April 1890, Reading, N.Y.; s. of Cleveland and Alta Monroe Gabriel; m. Christine Davis 1917; two s. one d.; ed. Yale Univ.; on staff Yale Univ. 1915, Prof. 1928-58; mem. staff U.S. War Dept. School of Mil. Govt. 1943-46; mem. American Historical Assen.; mem. Newcomen Society; Visiting Prof. Sydney Univ. Australia 1946; Prof. American History Cambridge Univ. 1951-52; Prof. of American Civilisation, American Univ. 1958-64; Visiting Prof. Tokyo Univ. 1964, George Washington Univ. 1965; U.S. Del. at Tenth Session of UNESCO 1958; mem. of U.S. Nat. Comm. for UNESCO 1958-63; Ed. Pageant of America (15 vols.) 1924-29; Joint-Ed. The American Mind 1937; Ed. Library of Congress Series in American Civilisation. *Publications:* Evolution of Long Island 1922, Toilers of Land and Sea 1926, Lure of the Frontier 1929, The Course of American Democratic Thought 1940, 1956, Religion and Learning at Yale 1958, American Values, Continuity and Change 1974. *Leisure interests:* hiking, canoeing. *Address:* 484 Whitney Avenue, New Haven, Conn. 06511, U.S.A.

GADDA CONTI, Piero, LL.D.; Italian writer; b. 13 Feb. 1902, Milan; s. of Guiseppe and Matilde Gadda Conti; m. Anna Maria Castellini 1939; one s.; ed. Pavia Univ.; Novelist and journalist; Italian Literary Prizewinner 1930, Bagutta Prize for Literature for La Paura 1971. *Publications:* L'Entusiastica Estate 1924, Liuba 1926, Verdemare 1927, Mozzo 1930, A Gonfie Vele 1931, Gagliarda 1932, Orchidea 1934, Festa da Ballo 1937, Nuvola 1938, Moti del Cuore 1940, Vocazione Mediterranea 1940, Incomparabile Italia 1947, Beati Regni 1954, Vita e melodie di Giacomo Puccini 1955, Adamira 1956, Vanterie Adolescenti 1960, Cinema e civilità 1960, Cinema e Giustizia 1961, Cinema e Sesso 1962, Cinema e Libertà 1963, La Milano dei Navigli 1965, Cinema e Società 1965, La Brianza 1966, La Paura 1970, Confessioni di Carlo Emilio Gadda 1974, Concerto d'Autunno 1976; plays: La Veste d'Oro 1924, Dulcinea 1927. *Address:* Piazza Castello 20, Milan, Italy. *Telephone:* 873-771, 80-33-58.

GADDAFI, Col. Mu'ammar Muhammad al-; Libyan army officer and political leader; b. 1942, Serte; s. of Mohamed Abdulsalam Abuminiar and Aisha Ben Niran; m. 1970; four s. one d.; ed. Univ. of Libya, Benghazi; Served with Libyan Army 1965-; Chair. Revolutionary Command Council 1969-77; C.-in-C. of Armed Forces Sept. 1969-; Prime Minister 1970-72; Minister of Defence 1970-72; Pres. of Libya March 1977-; mem. Pres. Council, Fed. of Arab Repubs. 1971-; rank of Maj.-Gen. Jan. 1976, still keeping title of Col. *Address:* Office of the President, Tripoli, Libya.

GADDAFI, Wanis; Libyan politician. Head of Exec. Council in Cyrenaican Prov. Govt. 1952-62; Fed. Minister of Foreign Affairs 1962-63, of Interior 1963-64, of Labour 1964; Amb. to Fed. Repub. of Germany 1964-65; Minister of Planning and Devt. 1966-68, of Foreign Affairs 1968; Prime Minister 1968-69; imprisoned for two years Nov. 1971. *Address:* Tripoli, Libya.

GAETANO, Cortesi; Italian industrial executive; b. 8 May 1912, Mesenzana, Varese; s. of late Giuseppe Gaetano and Angela (née Ferrini); m. Fiorella Lello 1946; three s.; ed. Univ. Bocconi, Milan; research at London School of Econs., Berlin Handelshochschule and Yale; joined econ. agency Istituto per la Riconstruzione Industriale (IRI) working in Stabilimenti Tessili Italiana and later in Banca Commerciale Italiana, New York and Italy 1940-45, in Cen. Inspectorate 1945-47; Gen. Dir. of Finmeccanica 1957-60, of IRI 1960-66; Chair. and Gen. Man. Italcantieri (Trieste) 1966-71, Gen. Man. Fincantieri 1971-74; Chair. and Gen. Man. Alfa Romeo S.p.A. 1974-, now also to Alfa Romeo Alfasud S.p.A.; Pres. Studi Impianti Consulenze Automotoristiche S.r.l.; mem. Board of Dirs. and Exec. Cttee., Assoc. Sindacale Intersind (employers' assen. for state-controlled firms). *Publication:* Planificazione Programmazione e Controlli Industriale 1955. *Leisure interest:* mountains. *Address:* Alfa Romeo S.p.A., Via Gattemelata 45, 20149 Milan, Italy. *Telephone:* 02-93391.

GAFNY, Arnon, M.A.; Israeli economist and central banker; b. 1932, Tel-Aviv; m. Mira Gafny; three c.; ed. Bard Coll., N.Y., U.S.A., and Hebrew Univ., Jerusalem; Falk Inst. for Econ. Research 1954-56; Asst. to Financial Adviser to Chief of Staff, Israel Defence Forces 1957-59; Chief Asst., Budgets Dept., Ministry of Finance 1959-61; Head, Econ. and Commercial Dept. of Ports Authority 1961; Dir. Ashdod Port 1961-70; Dir. of Budgets, Ministry of Finance 1970-75, Dir.-Gen. 1975-76; Gov. Bank of Israel Nov. 1976-. *Address:* Bank of Israel, Mizpeh Building, 29 Jaffa Road, Jerusalem, P.O. Box 780, Israel.

GAGE, Harlow W., B.A.; American motor company executive; b. 6 Feb. 1911, Springfield, Mass.; ed. Norwich Univ., Northfield, Vt.; with Gen. Motors Ltd. (starting as Messenger, Overseas Div. in New York) 1934-, Asst. to Man. Dir., Gen. Motors Near East S.A., Alexandria, Egypt 1936-40, Sales Corresp. for Foreign Distributors' Div. of Gen. Motors, New York Jan-Dec. 1941, at Overseas Operations Div., Washington 1942-45, Sales Man. Gen. Motors New Zealand Ltd., Wellington 1945-54, Man. Dir. GM New Zealand Ltd. 1954-56, Asst. to Man. Dir. of Gen. Motors-Holden's Pty. Ltd., Melbourne 1956-58, Asst. Man. Dir. GM-Holden's June 1958, Man. Dir. 1959-62, Regional Group Exec. GM Overseas Div. 1962-63, Feb.-Oct. 1968, Dir. Opel, Holden's group with responsibility for GM vehicle mfg. subsids. 1963-68, Gen. Man. GM Overseas Div. and Vice-Pres. and mem. of Admin. Cttee. of Gen. Motors Corpn. Oct. 1968-; Trustee, Council for Latin America Inc., U.S. Council of Int. Chamber of Commerce; Dir. American-Australian Assen.; mem. Board of Dirs. of Nat. Foreign Trade Council Inc., The Council on Foreign Relations. *Address:* General Motors Corporation, General Motors Building, Detroit, Mich. 48202, U.S.A.

GAGNEBIN, Albert P., B.S., M.S.; American mining executive; b. 23 Jan. 1909, Torrington, Conn.; m. Genevieve Hope; two d.; ed. Yale Univ.; Research Engineer, Int. Nickel Co. Inc. 1932-49, Ductile Iron Group Leader 1949-54, Asst. Man. of Nickel Sales 1955-56, Man. 1956-61, Asst. Vice-Pres. 1957-58, Vice-Pres. 1958-64, Vice-Pres. Int. Nickel Co. of Canada Ltd. 1960-64, Exec. Vice-Pres. Int. Nickel Co. of Canada Ltd. and Int. Nickel Co. Inc. 1964-67, Dir. Int. Nickel Co. Inc. 1964-, Int. Nickel Co. of Canada 1965-, Pres. Int. Nickel Co. of Canada Ltd. and Int. Nickel Co. Inc. 1967-72, Chair. and Chair. Exec. Cttee. 1972-74; Dir. Abex Corpn., American-

Swiss Assn., Inc., Ingersoll-Rand Co., Centennial Insurance Co., Illinois Cen. Industries, Bank of New York, N. American Advisory Bd. of Swissair, Schering-Plough Corpn., fmr. Dir. Toronto-Dominion Bank; Yale Eng. Assn.; co-inventor of Ductile Iron; mem. Nat. Acad. of Eng., Washington, D.C. (Awards 1952, 1965 and 1967); Hon. Life mem. American Foundrymen's Soc.; Trustee, Atlantic Mutual Insurance Co., Bank of New York; Officier, Ordre national du Mérite 1976. *Publications:* Fundamentals of Iron and Steel Castings 1957, and numerous articles. *Address:* 143 Grange Avenue, Fair Haven, N.J. 07701, U.S.A. *Telephone:* 201-747-0139.

GAIRDNER, Lieut.-Gen. Sir Charles Henry, G.B.E., K.C.M.G., K.C.V.O., C.B., K.G.ST.J.; British administrator; b. 20 March 1898, Batavia, Java; s. of C. A. Gairdner and Theodora A. Bergsma; m. Hon. Evelyn Handcock (d. of 5th Baron Castlemaine) 1925; ed. Repton and Royal Military Acad., Woolwich. Gazetted 2nd Lieut., Royal Artillery 1916; served in France and Flanders; transferred to 10th Royal Hussars 1926, Maj. 1931, Lieut.-Col. 1937, Col. 1940, Maj.-Gen. 1942, Lieut.-Gen. 1944; commnd. 10th Royal Hussars 1937-40; Col. 1949-52; Gen. Staff Officer, 1st Grade, 7th Armoured Div. 1940-41; Deputy Dir. of Plans, Middle East 1941; G.O.C. 6th and 8th Armoured Divs. 1942; Chief of Gen. Staff, N. Africa 1943; Maj.-Gen. Armoured Fighting Vehicles, India 1944; Personal Rep. of Prime Minister of U.K. in Far East and Head of U.K. Liaison Mission 1945-48; retd. 1948; Gov. of Western Australia 1951-63, Tasmania 1963-68; Hon. D.Litt. (W. Australia), Hon. LL.D. (Tasmania); Medal of Freedom with Silver Palm (U.S.A.). *Leisure interests:* polo, golf, yachting. *Address:* 24 The Esplanade, Peppermint Grove, Western Australia. *Telephone:* 316756.

GAIRY, the Rt. Hon. Sir Eric Matthew, Kt., P.C.; Grenada politician; b. 18 Feb. 1922, St. Andrew's, Grenada; m. Cynthia Gairy 1949; two d.; ed. St. Andrew's R.C. School.; mem. Legis. Council 1951-54, 1954-57; Minister of Trade and Production 1956-57; Chief Minister, Minister of Finance to 1962 (dismissed); Premier 1967-74; fmr. Minister of Home and External Affairs, Security and Defence; Prime Minister, Minister of Planning and Devt., Lands and Tourism, Information Service, Public Relations and Natural Resources, independent Grenada 1974-79 (deposed in coup). F.R.S.A.; Hon. Dr. rev. Pol. (Ecclesiastical Univ. England) 1974, Hon. Dr. Iur. (Kyung Hee Univ.) 1976; Order of the Liberator (Venezuela) 1971, Kt. Grand Cross of Order of the Holy Cross of Jerusalem 1974, Silver Jubilee Medal 1977 and other awards. *Leisure interests:* cricket, tennis, billiards, dancing, music. *Address:* St. George's, Grenada.

GAITONDE, Vasudeo; Indian artist; b. 1924; ed. Sir J. J. School of Art, Bombay.; exhibited in London, New York, Paris, São Paulo, Tokyo; one man shows in New Delhi and Bombay; John D. Rockefeller Third Fund Grant 1964; First Prize, Young Asian Artists' Exhibition, Tokyo 1957. Works in: Nat. Gallery of Modern Art and Lalit Kala Akademi, New Delhi, Tata Inst. of Fundamental Research and Atomic Energy Establishment, Bombay, Museum of Modern Art, New York. *Address:* 89 Bhulabhai Desai Road, Bombay 26, India.

GAJA, Roberto, LL.D.; Italian diplomatist; b. 27 May 1912, Turin; s. of Guido Gaja and Carlotta Pia Galliani; m. Carla Travaglini 1937; one s. two d.; ed. Univ of Turin law faculty.; entered diplomatic service 1937; First Sec. and Chargé d'affaires, Vienna 1946-47; Italian Rep. and later Chargé d'affaires, Tripoli 1949-52; Counsellor, Paris 1955; Asst. Dir. of Personnel, Ministry of Foreign Affairs 1957, Gen. Dir. for Political Affairs 1964-69, Sec.-Gen. of Ministry 1969-75; Minister, Sofia; rank of Amb. 1967; Amb. to U.S.A. 1975-78. *Publications:* Discorsi sul Mondo Oscuro 1937, The Political Consequences of the Atomic Bomb 1959, Foreign Policy and Nuclear Weapons 1969, An Inquiry into Italian Foreign Policy 1970. *Address:* c/o Ministry of Foreign Affairs, Rome, Italy.

GAJDUSEK, Daniel Carleton, M.D.; American medical research scientist; b. 9 Sept. 1923, Yonkers, N.Y.; s. of Karl Gajdusek and Ottilia Dobroczki; ed. Marine Biological Laboratory, Woods Hole, Mass., Univ. of Rochester, Harvard Medical School, Calif. Inst. of Tech.; served in Medical Corps; Babies Hosp. of Columbia Presbyterian Medical Center, N.Y. 1946-47; Cincinnati Children's Hosp. 1947-48; Medical Mission in Germany 1948; Senior Fellow, Nat. Research Council, Calif. Inst. of Tech. 1948-49; Children's Hosp., Boston, Mass. 1949-51; Research Fellow, Harvard Univ. and Senior Fellow, Nat. Foundation for Infantile Paralysis 1949-52; Walter Reed Army Medical Center 1952-53; Institut Pasteur, Teheran, Iran and Univ. of Md. 1954-55; Visiting Investigator at Walter and Eliza Hall Inst., Australia 1955-57; Lab. Chief Nat. Inst. of Neurological and Communicative Disorders and Stroke, Nat. Inst. of Health (NIH), Bethesda, Md. 1958-, Chief of Special Chronic Diseases Section 1970, of Cen. Nervous System Studies Lab. 1971–; mem. Soc. for Paediatric Research, American Paediatric Soc., Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc., American Acad. of Neurology; shared Nobel Prize in Physiology or Medicine for discoveries concerning new mechanisms for the origin and dissemination of infectious diseases 1976. *Address:* Laboratory of Central Nervous System Studies, NINCDS, National Institutes of Health, Bethesda, Md. 20014; 4 Laurel Parkway, Chevy Chase, Md. 20015, U.S.A. (Home). *Telephone:* (301) 652-7796.

GAJENDRAGADKAR, Pralhad Balacharya, M.A., LL.D.; Indian judge; b. 16 March 1901, Satara, Maharashtra State; m. Shalina Pralhad Gajendragadkar 1925; two d.; ed. Karnatak Coll., Dharwar, Deccan Coll., Poona, Law Coll., Poona, and Univ. of Bombay.; joined Bombay Appellate Side Bar 1926; edited Hindu Law Quarterly; Chair. Bank Award Comm. 1955; Judge of the Bombay High Court 1945-57; Judge, Supreme Court of India 1957-64, Chief Justice 1964-66; Vice-Chancellor, Bombay Univ. 1966-71; Hon. Pres. Law Comm. 1971-; Pres. S. P. Mandali, Poona; Pres. Swastik League, Bombay; Visiting Lecturer, U.S. univs. 1965; leader Dels. Indian Jurists to U.S.S.R. and Australia 1965; Chair. Dearness Allowance Comm., Govt. of India 1966-67; Chair. Nat. Comm. on Labour 1967-69; Chair. Jammu and Kashmir Comm. of Inquiry 1967-68; Pres. Asiatic Soc. of Bombay; mem. Univ. Grants Comm.; mem. Man. Council Nat. Centre for the Performing Arts; Chair. Banaras Hindu Univ. Inquiry Cttee. 1968-69; Chair. Board of Visitors, J.J. Group of Hospitals, Bombay 1967-; Pres. Ramkrishna Mission, Bombay; Vice-Pres. The Centre of Applied Politics, New Delhi; Trustee, India Int. Centre New Delhi, mem. Board of Govs. Shri Ram Centre for Industrial Relations, New Delhi; mem. Nat. Integration Council; Pres. Inst. of Public Undertakings; Sir Lallubhai Shah Lectures 1950, Patel Memorial Lectures 1966, Nagpur Univ. Extension Lectures 1967, Fourth J. N. Tata Lecture 1968, Gandhi Memorial Lecture, Nairobi 1968, Telang Memorial Lectures 1970; Hon. Chair. Law Reforms Comm., Govt. of India 1971-; Hon. LL.D. (Karnatak); Sir Jehangir Ghandy Medal for Industrial Peace 1969, Padma Vibhushan 1972. *Publications:* Sanskrit Text of Nanda Pandit's Dattaka Mimamsa and its English translation, Law, Liberty and Social Justice, Kashmir—Retrospect and Prospect, Jawaharlal Nehru—A Glimpse of the Man and His Teachings, The Constitution of India: Its Philosophy and Basic Postulates, Secularism and the Constitution of India. *Address:* Law Reforms Commission, Government of India, Shastri Bhavan, Dr. Rajendra Prasad Road, New Delhi 1 (Office); 12 Tughlak Road, New Delhi, India (Home). *Telephone:* 259887 (Office).

GAJEWSKI, Waclaw, PROF. DR.; Polish geneticist; b. 28 Feb. 1911, Kraków; ed. Warsaw Univ. Doctor 1937-46, Docent 1946-54, Assoc. Prof. 1954-64, Prof. 1964-; Corresp. mem. Polish Acad. of Sciences 1958-69, mem. 1969-, Chair. Botanical Cttee. 1968-76, Dir. Inst. of Biochem. and Biophysics until 1976; Head, Dept. of Taxonomy and Geography of Plants and Prof. Inst. of Botany, Warsaw Univ.; Editor-in-Chief Acta Societatis Botanicorum Poloniae; mem. Int. Assn. for Plant Taxonomy, Int. Soc. for the Study of Evolution, American Soc. of Naturalists, American Genetics Assn.; Knight's Cross, Order of Polonia Restituta 1957, Officer's Cross 1973, State Prize (1st Class) 1976. *Publications:* popular scientific books: Symbioza (Symbiosis 1946, Tajemnice liścia (Secrets of the Leaf) 1949, Jak poznawano prawa dziedziczności (How they Learned the Laws of Heredity) 1958, W poszukiwaniu istoty dziedziczenia (In Search of the Essence of Heredity) 1966, Genetyka ogólna i molekularna 1976; numerous articles. *Address:* Aleje Ujazdowskie 4, 00-478 Warsaw, Poland.

GAŁAJ, Dyzma; Polish politician and scientist; b. 15 Jan. 1915, Mystkowice, Łowicz district; s. of Kazimierz and Maria Gałaj; m. 1944; one s. one d.; ed. Univ. of Łódź. Teacher 1936; combatant in Peasants' Battalions 1942-45; active mem. Rural Youth Union ("Wici") 1938-48; after liberation scientific worker, agric. acads. in Łódź, Olsztyn and Warsaw 1948-64; Editor-in-Chief Wieś Współczesna 1957-64; Head, Inst. for Research on Regions being industrialized, Polish Acad. of Sciences 1964-72, Deputy Head 1972-; Dir. Inst. for Rural and Agric. Devt., Polish Acad. of Sciences, 1971-; mem. Peasants' Party 1948; mem. Cen. Cttee. United Peasants' Party 1949-, mem. Presidium, Cen. Cttee. 1969-76, Vice-Pres. Cen. Cttee. 1971-73; Deputy to Seym 1965-, Marshal of Seym 1971-72; mem. State Council 1972-76; Prof. of Sociology Ruralis, Polish Acad. of Sciences; Order of Banner of Labour Second Class, Commdr. Cross of Order Polonia Restituta, Cross of Valour, Partisans' Cross and other decorations. *Publications:* books on agriculture and peasants' political movt.; numerous articles in professional journals. *Address:* Institute for Rural and Agricultural

Development, Nowy Swiat 72, Warsaw (Office); ul. Żurawia 2 m. 13,00-508, Warsaw, Poland (Home). *Telephone:* 26-94-36 (Office); 29-00-75 (Home).

GALAMBOS, Robert, M.A., PH.D., M.D.; American professor of neurosciences; b. 20 April 1914, Lorain, Ohio; s. of John and Julia Galambos; m. 1st Jeannette Wright 1939, three d.; m. 2nd Carol Armstrong 1971; m. 3rd Phyllis Johnson 1977; ed. Harvard Univ. and Univ. of Rochester School of Medicine. Teaching Fellow, Physiology, Harvard Univ. 1939-41, Tutor in Biochem. 1941-42, 1947-48, Research Fellow, Psycho-Acoustic Lab. 1947-51; Instructor in Physiology, and Junior Investigator, Office of Scientific Research and Devt., Harvard Univ. Medical School 1942-43; Intern, Emory Univ. Hospital 1946, Asst. Prof. Anatomy, Emory Univ. Medical School 1946-47; Chief, Dept. of Neurophysiology, Walter Reed Army Inst. of Research 1951-62; Eugene Higgins Prof. of Psychology and Physiology, Yale Univ. 1962-68; Prof. Neurosciences, Univ. of Calif., San Diego 1968-. *Publications:* The Avoidance of Obstacles by Flying Bats: Spallanzani's Ideas (1794) and later Theories, in Isis (34) 1942, Inhibition of Activity in Single Auditory Nerve Fibers by Acoustic Stimulation, in Journal of Neurophysiology (7) 1944, A Glia-neural Theory of Brain Function, in Proceedings of Nat. Acad. of Sciences (47) 1961, An Electroencephalograph Study of Classical Conditioning (with Guy C. Sheatz), in American Journal of Physiology (203) 1962, Suppression of Auditory Nerve Activity by Stimulation of Efferent Fibers to Cochlea, in Journal of Neurophysiology (19) 1965, and 125 others. *Address:* Department of Neurosciences, A-012, University of California, San Diego, La Jolla, Calif. 92093 (Office); 8826 La Jolla Scenic Drive, La Jolla, Calif. 92037, U.S.A. (Home). *Telephone:* 452-3797 (Office); 453-0151 (Home).

GALANSHIN, Konstantin Ivanovich; Soviet politician; b. 1912; ed. Urals Industrial Inst. Electrical Fitter 1930-37; Engineer, Central Relay Service of "Uralenergo" Power System, Deputy Chief, then Chief of Relay Service of "Permenergo" Power System, Dir. of Perm. Region Hydro-electric Power Station 1937-50; First Sec. Berezniki Town Cttee. of CPSU 1950-54; Party Official 1954-60; First Sec. Perm. Regional Cttee. of CPSU 1960-68; U.S.S.R. Minister of Pulp and Paper Industry 1968-; Deputy to U.S.S.R. Supreme Soviet; mem. CPSU 1944-, mem. Cen. Cttee. 1961-; Order of Lenin. *Address:* U.S.S.R. Ministry of Pulp and Paper Industry, 13/5 Bolshoi Kiselny Pereulok, Moscow, U.S.S.R.

GALBRAITH, J. Kenneth, PH.D.; American economist, diplomatist and writer; b. 15 Oct. 1908; m. Catherine Merriam Atwater 1937; three s.; ed. Toronto, California and Cambridge (England) Univs. Research Fellow, Calif. Univ. 1931-34; Instructor, Harvard Univ. 1934-39, Lecturer 1948-49, Prof. of Econs. 1949-75, Emer. Prof. 1975-; Asst. Prof. Princeton Univ. 1939-42; Asst. then Deputy Admin. Office of Price Admin. 1941-43; mem. Bd. of Editors Fortune Magazine 1943-48; Amb. to India 1961-63; Dir. Office of Econ. Security Policy, State Dept. 1946; BBC Reith Lecturer 1966; mem. Nat. Inst. of Arts and Letters, American Econ. Assn. (Pres. 1971), American Farm Econs. Assn., Americans for Dem. Action (Chair. 1967-68); Fellow American Acad. of Arts and Sciences; numerous hon. degrees; Freedom Medal 1946. *Publications include:* Theory of Price Control, American Capitalism 1952, The Great Crash, Economics and the Art of Controversy 1955, The Affluent Society 1958, Journey to Poland and Yugoslavia 1959, The Liberal Hour 1960, Made to Last 1964, The New Industrial State 1967, The Triumph (novel) 1968, Ambassador's Journal 1969, Indian Painting (co-author) 1969, A Contemporary Guide to Economics, Peace and Laughter 1971, A China Passage 1973, Economics and the Public Purpose 1974, Money: Whence It Came, Where It Went 1975, The Age of Uncertainty 1976, The Galbraith Reader 1978, Almost Everyone's Guide to Economics 1979. *TV series:* The Age of Uncertainty (BBC) 1977. *Address:* 207 Littauer Center, Harvard University, Cambridge, Mass. 02138 (Office); 30 Francis Avenue, Cambridge, Mass. 02138, U.S.A. (Home).

GALE, Ernest Frederick, PH.D., SC.D., F.R.S.; British professor of chemical microbiology; b. 15 July 1914, Luton, Beds.; s. of Ernest Francis Edward Gale and Nellie Annie Gale; m. Eiry Mair Jones 1937; one s.; ed. Weston-super-Mare Grammar School and St. John's Coll., Cambridge. Research in chemical microbiology, Cambridge 1937-; Senior Student, Royal Comm. for Exhbn. of 1851 1939-41; Beit Memorial Fellow 1941-43; mem. Staff, Medical Research Council 1943-60, Dir. M.R.C. Unit for Chemical Microbiology 1948-60; Prof. of Chemical Microbiology, Univ. of Cambridge 1960-; Fellow, St. John's Coll., Cambridge 1940-; Meetings Sec. Soc. for Gen. Microbiology 1952-58, Int. Rep. 1963-67, Pres. 1967-69, Hon. mem. 1978-; Herter Lecturer, Baltimore 1948; Hanna Lecturer, Western Reserve Univ. 1951; Harvey Lecturer, N.Y. 1955; Malcolm Lecturer, Syracuse Univ. 1967; Linacre Lecturer, St. John's Coll., Cambridge Univ. 1973; Fellow of Royal Soc. 1953-; Leeuwenhoek Lecturer, Royal Soc. 1956. *Publications:* Chemical Activities of Bacteria 1947, Organisation and Synthesis in Bacteria 1959, Promotion and Prevention of Synthesis in Bacteria 1968, The Molecular Basis of Antibiotic Action 1972; scientific papers and reviews in journals of biochemistry and microbiology. *Address:* Sub-Department of Chemical Microbiology, Department of Biochemistry, University of Cambridge, Cambridge; 25 Luard Road, Cambridge, England (Home).

GALE, General Sir Richard, G.C.B., K.B.E., D.S.O., M.C.; British army officer; b. 25 July 1896; ed. Merchant Taylors School, Aldenham and Royal Military Coll. Commissioned Worcestershire Regt. 1915; served through all ranks to Gen. 1944; Commdr. 6th Airborne Div. 1942-44, 1st British Airborne Corps 1944-45; Deputy Commdr. 1st Allied Airborne Army; G.O.C. 1st Infantry Div., Palestine 1946-47, British Troops Mediterranean 1948-49; Lieut.-Gen. 1947; Dir.-Gen. Mil. Training 1949; Gen. 1952; Commdr. Northern Army Group and C.-in-C. British Army of the Rhine 1952-56; Deputy Supreme Allied Commdr. Europe 1958-60; Commdr. Legion of Merit and Légion d'honneur, Croix de guerre, Grand Officier de la Couronne. *Publications:* With 6th Airborne Division in Normandy, The Worcestershire Regiment, Battles of the Bible 1963, Call to Arms (autobiography) 1968, Kings at Arms 1971. *address:* Hampton Court Palace, Surrey, England.

GALEA, Joseph, M.B.E., M.D., D.P.H., M.F.C.M., R.C.P.; British doctor and writer; b. 1902, Qormi, Malta; s. of Louis Galea and Maria Cilia; m. Hilda Portelli 1932; two d.; ed. St. Aloysius Coll., Univs. of Malta and Edinburgh. Port Health Officer, Malta 1930-37; M.O.H. Valletta 1937-48; Senior Health Officer, Ministry of Health 1948-51; Chief Govt. M.O. and Supt. of Public Health of Malta 1951-61; Prof. and Examiner, Royal Univ. Malta; Pres. Acad. of Maltese Writers, Soc. Welfare of Mentally Handicapped, Royal Soc. of Health (Malta Branch), Assn. Maltese Writers, Qormi Civic Cttee., Malta Horticultural Soc.; mem. Govt. Contracts Comm. of Malta, Malta Relief Fund, Industrial Injuries Board, Malta Historical Soc.; holds Medal and Prizes for Maltese literary work; Officer of the Order of St. John of Jerusalem, Kt. of Grace of the Sovereign Order of Malta, Grand Officer of Merit Order of Malta. *Publications include:* First Aid to War Casualties, Health and Design of Dwelling Houses, The Sources of Maltese Literature, Zmien-I-Ispanjoli, Ragel Bil Ghaqal, Grajja Tal Gwerra, San Guan, Id-Dinja Rota, Bla Habi, Fiex Nasalna, History of Malta since 1530, The Health Conditions of the Maltese Islands, Short History of the Sovereign Order of Malta, Fire at the Opera House, Stories of the War in Malta. *Leisure interests:* travelling, book collecting. *Address:* 34 Strait Street, Valletta, Malta; and St. John Club, 50 Eaton Place, London, S.W.1, England. *Telephone:* 24311 (Malta).

GALICHON, Georges, L.EN.D.; French administrator and diplomatist; b. 3 Nov. 1915; ed. Lycée Janson-de-Sailly and Ecole des Sciences Politiques. Auditeur au Conseil d'Etat 1941, Maître des Requêtes 1947; Dir. at the Presidency of the Council 1949-55; Gen. Sec. High Cttee. of the Youth of France and Overseas Territories at the Presidency of the Council 1955-58; Dir. du Cabinet, to Pierre Chatenet, Minister of the Interior 1959, to the Pres. of the Repub. 1961-67; Councillor of State 1963-; Pres. Air France 1967-75; Amb. to Vatican City State 1976-; Commdr. Légion d'honneur, Croix de guerre. *Address:* French Embassy, Villa Bonaparte, Via Piave 23, 00187 Rome, Italy (Office); 6 rue de Seine, Paris 6e, France (Home).

GALILI, Israel; Israeli politician; b. May 1911, Brailov, Ukraine (now U.S.S.R.); ed. Ahad Ha'am Primary School.; went to Palestine 1914; later worked on bldgs. and in printing; f. Assn. of Working Youth 1924; helped establish Kibbutz Na'an 1930; Haganah activities 1935-48; Deputy Minister of Defence, Israel Govt. 1948; mem. Knesset; Minister without Portfolio (in charge of Information Services) 1966; Minister without Portfolio, 1969-77; mem. Achdut Ha'Avoda Party. *Address:* Kibbutz Na'an, Israel.

GALINDO POHL, Reinaldo; Salvadorian diplomatist; b. 18 Oct. 1918; m. Esperanza Vélez 1954; one s.; ed. Univ. of El Salvador. Pres. Nat. Constitutional Ass. 1950; Minister of Educ. 1950-56; Amb. in special mission to Chile 1952; Dir. Bureau of Relations with Mem. States, UNESCO 1957-59; Prof. Constitutional Law and Philosophy of Law, Univ. de El Salvador 1959-68; mem. Inter-American Comm. on Human Rights 1960-64; Perm. Rep. of El Salvador to UN 1967-77; mem. Inter-American Juridical Cttee. 1972-74, Chair. 1974. *Leisure interest:* hiking. *Address:* c/o Ministerio de Relaciones Exteriores, Km.6 Carretera Panamericana, San Salvador, El Salvador.

GALL, Joseph Grafton, PH.D.; American professor of biology; b. 14 April 1928, Washington, D.C.; s. of late John C. and Elsie (Rosenberger) Gall; m. Dolores M. Hogge 1955; one s. one d.; ed.

Yale Univ. Instructor, Asst. Prof., Assoc. Prof., Prof., Dept. of Zoology, Univ. of Minnesota 1952-64; Prof. of Biology and Molecular Biophysics and Biochem., Yale Univ. 1964-; mem. Cell Biology Study Section, Nat. Insts. of Health 1963-67, Chair. 1972-74; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences. *Publications:* scientific articles on chromosome structure, nucleic acid biochemistry, cell fine structure, organelles of the cell. *Leisure interest:* collecting books on the history of biology. *Address:* 418 Kline Biology Tower, Yale University, New Haven, Conn. (Office); 3 Crestview Drive, North Haven, Conn., U.S.A. (Home).

GALLAGHER, Francis George Kenna, C.M.G., LL.B.; British diplomatist (retd.); b. 25 May 1917, London; s. of George and Joanna Gallagher; ed. London Univ.; entered civil service 1935; active service R.A.F. 1941-45; entered diplomatic service 1945; Vice-Consul, Marseilles 1948; Second-Sec., Paris 1948; First Sec., Western Orgs. Dept., Foreign Office 1950; Head of Chancery, Damascus 1953; Asst. Head, Northern Dept. 1956, Mutual Aid Dept. 1959; Head, European Econ. Orgs. Dept. 1960; Commercial Counsellor, Berne 1963; Head, Western Econ. Dept., C.R.O. 1965; Asst. Under-Sec. of State, Foreign Office 1968; Amb., Head of Del. to OECD 1971-77, Chair. Exec. Cttee. 1976. *Leisure interests:* music, chess. *Address:* 16 Friday Street, Henley-on-Thames, Oxon., England. *Telephone:* Henley-on-Thames 2280.

GALLEY, Robert; French engineer and politician; b. 11 Jan. 1921; ed. Lycée Louis-le-Grand, Paris, Lycée Hoche, Versailles, Ecole centrale des arts et manufactures and Ecole Nat. Supérieure du pétrole et des moteurs. Compagnie Chérifienne des Pétroles 1950-54; in Commissariat à l'Energie atomique 1955-66; Pres. of Perm. Comm. for Electronics, Dept. of the Plan 1966-; Minister of Supply and Housing May-July 1968, of Scientific Research and Atomic Energy 1968-69, of Posts 1969-72, of Transport 1972-73, of the Armed Forces 1973-74, of Supply 1974-76, of Co-operation 1976-; Commdr. Légion d'honneur, Compagnon Ordre de la Libération, Croix de guerre (1939-45). *Address:* 1 place de la Porte-de-Passy, Paris 16e, France.

GALLIMARD, Claude; French publisher; b. 10 Jan. 1914, Paris; s. of Gaston and Yvonne (Redelsperger) Gallimard; m. Simone Cornu 1939; 4 c.; ed. Faculté de Droit, Paris.; joined Editions Gallimard 1937, Asst. Dir.-Gen., later Dir. 1966-. *Address:* Editions Gallimard, 5 rue Sébastien-Bottin, Paris 7e, France.

GALLINER, Peter; British publisher; b. 19 Sept. 1920, Berlin, Germany; s. of Dr. Moritz Galliner and Hedwig Isaac; m. Edith Marguerite Goldschmidt 1948; one d.; ed. in Berlin and London.; worked for Reuters, London 1942-45; Foreign Man. Financial Times, London 1945-61; Chair. of Board and Man. Dir. Ullstein Publishing Group, Berlin 1961-64; Vice-Chair. and Man. Dir. British Printing Corpn. Publishing Group, London 1967-70; Int. Publishing Consultant 1965-67, 1970-75; Dir. Int. Press. Inst.; Fed. Cross of Merit, First Class (Fed. Repub. of Germany). *Leisure interests:* reading, music. *Address:* 27 Queen's Grove, St. John's Wood, London, N.W.8, England; Längenstrasse 110, 8964 Rudolfstetten, Switzerland. *Telephone:* 01-722 0361.

GALLOPIN, Roger Edouard, D.IUR.; Swiss lawyer; b. 14 Dec. 1909, Geneva; s. of Edouard Gallopin and Marie Coulin; m. Monica Speitel de Cussy 1959; one s. one d.; ed. Munich and Geneva Univs., London School of Economics. Barrister, Geneva 1935-37; Head of P.O.W. section, Int. Red Cross Cttee., Second World War; Deputy Sec.-Gen. Int. Cttee. of the Red Cross 1943-50, missions in Europe, Africa, Asia, America, Exec. Dir. 1950-; Del. to Int. Red Cross Confs., Stockholm, Toronto, Delhi, Vienna, Istanbul, Bucharest; mem. and Dir.-Gen., Pres. Exec. Council 1973-77; mem. Int. Lawyers' Club, Geneva; several foreign distinctions awarded by govts. or nat. Red Cross Socs. *Publications:* Le Conflit anglo-irlandais considéré spécialement depuis les articles d'accord de 1921 1935. *Leisure interests:* reading, various outdoor sports. *Address:* Clos des Vignes, Bursins (VD), Switzerland. *Telephone:* 74-10-21.

GALLUP, George Horace, PH.D., LL.D.; American statistician; b. 18 Nov. 1901, Jefferson, Iowa; m. Ophelia Smith Miller 1925; two s. one d.; ed. Univ of Iowa. Lecturer Univ. of Iowa 1923-29; Head, Dept. of Journalism, Drake Univ. 1929-31; Prof. of Journalism, North-western Univ. 1931-32; Dir. of Research, Young and Rubicam Advertising Agency 1932-47, Vice-Pres. 1937-47; Prof. Pulitzer School of Journalism, Columbia Univ. 1935-37; f. American Inst. of Public Opinion 1935, Dir. 1935-; f. British Inst. of Public Opinion 1936; Pres. Nat. Municipal League 1952-56; Chair. of Council; fmr. Chair. All-America Cities Award Cttee.; Chair. of Board, The Gallup Org. Inc., Chair. Gallup Int. Research Insts. inc.; f. Quill and Scroll Soc.; Hon. D.Sc. (Tufts Univ.), Hon. LL.D. (Drake, Boston, Chattanooga, Northwestern, Colgate, Rider and Iowa); numerous awards. *Publications include:* Public Opinion in a Democracy 1939, Guide to Public Opinion Polls 1944, 1948, The Miracle Ahead 1964, The Sophisticated Poll Watcher's Guide 1972, 1976. *Address:* 53 Bank Street, Princeton, New Jersey, U.S.A.

GALSWORTHY, Sir Arthur Norman, K.C.M.G.; British diplomatist (retd.); b. 1 July 1916; s. of the late Capt. Arthur and the late Violet (née Harrison) Galsworthy; m. Margaret Agnes Hiscocks 1940 (died 1973); two s.; ed. Emanuel School and Corpus Christi Coll., Cambridge.; entered Colonial Office 1938; on active service 1939-45; returned to Colonial Office 1945-51; Chief Sec., West African Inter-Territorial Secr., Accra 1951-54; Colonial Office 1954-66; Deputy Under-Sec. of State, Commonwealth Office (later Foreign and Commonwealth Office) 1966-69; British High Commr. in New Zealand 1969-72, also to Tonga and Western Samoa (both non-resident) 1970-72; Gov. Pitcairn Islands 1970-72; Amb. to Ireland 1973-76. *Leisure interests:* bird-watching, riding, fishing. *Address:* Woodbine Cottage, The Street, Kersey, near Ipswich, Suffolk, England.

GALSWORTHY, Sir John, K.C.V.O., C.M.G.; British fmr. diplomatist; b. 19 June 1919, London; s. of the late Capt. Arthur Galsworthy and Violet Gertrude (Harrison) Galsworthy; m. Jennifer Ruth Johnstone 1942; one s. three d.; ed. Emanuel School, and Corpus Christi Coll., Cambridge.; served in H.M. Forces 1939-41; Foreign Office 1941-46; Third Sec., Madrid 1946; Second Sec., Vienna 1949; First Sec., Athens 1951; Foreign Office 1954; Bangkok 1958; Counsellor, British Del. to EEC, 1962; Econ. Counsellor, Bonn 1964-67, Paris 1967-70; Minister (European Economic Affairs), Paris 1970-71; Amb. to Mexico 1972-77. *Leisure interest:* fishing. *Address:* c/o Foreign and Commonwealth Office, London, S.W.1; 15 Wallgrave Road, London, S.W.5, England (Home).

GALVÁN LÓPEZ, Lieut.-Gen. Félix; Mexican army officer and government official; b. 20 Jan. 1913, Valle de Santiago, Guanajuato; s. of Félix Galván Coria and Aurea López; m. Elisa Juárez de Galván; two s. one d.; ed. Heroic Mil. Coll., Cavalry School. Adjutant to Pres. of Mexico 1946-52, to Mil. and Air Force Attaché at Embassy in U.S.A. 1953; Gen. Adjutant and Chief of Special Inspection Comm., Army and Air Force Gen. Inspectorate 1959-65; Private Sec. to Sec. of Nat. Defence 1965-69; Chief of Nat. Defence Staff 1969-70; Commdt. 6th mil. zone 1971-73, 16th mil. zone 1973-74, 5th mil. zone 1974-76; Sec. of Nat. Defence 1976-; Order of Mil. Tech. Merit, Mexican Legion of Honour, Commdr. Order of Mayo (Argentina), Order of Abdón Calderón (Ecuador). *Leisure interests:* reading, theatre, riding. *Address:* Quinta Galeana, Batalla de Celaya y Periférico, México, D.F., Mexico. *Telephone:* 557-07-21.

GALVÊAS, Ernane; Brazilian economist and banker; b. 1 Oct. 1922, Cachoeiro do Itapemirim; s. of José Galvêas and Maria de Oliveira; m. Odaléa dos Santos 1948; one s. one d.; ed. Coll. of Economics and Finance, Rio de Janeiro Univ., Centro de Estudios Monetarios Latino-Americanos, Mexico and Yale Univ.; fmrly. Prof. of Banking and Finance, Coll. of Econs. and Finance, Rio de Janeiro, subsequently Prof. of Int. Trade, of Monetary Policy and of Int. Monetary Policy; Assoc. Chief, Econs. Dept., Supervisory Council for Finance and Credit (SUMOC) 1953-61; Econ. Consultant to Minister of Finance 1961-63; Financial Dir. Merchant Marine Comm. 1963-65; Dir. Foreign Trade Dept., Banco do Brasil 1966-68; Pres. Banco Central do Brasil 1968-74; Financial Dir. Aracruz Celulose S.A. 1974-. *Publications:* Brazil—Frontier of Development 1974, Brazil—Development and Inflation 1976; numerous articles on economic and financial topics. *Address:* Avenida Atlântica, 2492 Apt. 301, Rio de Janeiro, RJ Brazil.

GÁLVEZ-BARNES, Roberto; Honduran aeronautical engineer, politician and diplomatist; b. 18 May 1925, Puerto Cortés; s. of Juan Manuel Gálvez and Laura Barnes de G'aaalvez; m. lucía Cristina Montes de Gálvez 1948; two s. three d.; ed. Louisiana State Univ. and M.I.T., U.S.A.: Capt. in charge of Ground School for Pilots, Honduran Air Force 1949-50; Dir.-Gen. of Civil Aeronautics 1950-55; Man. Honduran Cotton Co-operative and Honduras Industrial S.R.L. 1955-56; Minister of Communications and Public Works Jan.-Oct. 1956; mem. Mil. Junta 1956-57; Man. Honduras Industrial S.R.L. 1957-58; Vice-Pres. and Gen. Man. TAN airlines 1958-70, Dir. TAN and SANSA Airlines 1974-76; Amb. to U.S.A. 1970-74, to Canada and OAS 1973-74; Pres. Azucarera Choluteca S.A. and Tecnisa 1976-; Medal of Merit, First Class (Ministry of Defence, Honduras); Order of Morazán (Honduras); Order of Vasco Nuñez de Balboa (Panama); Order of the Propitious Cloud (China). *Leisure interests:* music, fencing. *Address:* 9A Calle 516, Tegucigalpa, D.C., Honduras. *Telephone:* 2-9156 (Home).

GALVIN, Robert W.; American executive; b. 9 Oct. 1922, Marshfield, Wis.; m. Mary Barnes 1944; two s. two d.; ed. Univs. of Notre Dame and Chicago. Motorola, Inc. Chicago 1940-, Chair. of Board, Chief. Exec. Officer; Dir. Harris Trust and Savings Bank, Chicago;

Trustee Illinois Inst. of Tech.; Fellow, Univ. of Notre Dame; Dir. Junior Achievement of Chicago; mem. Pres.' Comm. on Int. Trade and Investment; Electronic Industries Assn. Medal of Honour 1970. *Leisure interests:* skiing, water-skiing, tennis, horse-riding. *Address:* 1303E Algonquin Road, Schaumburg, Ill. 60196, U.S.A. (Office).

GALWAY, James, O.B.E.; British flautist; b. 8 Dec. 1939, Belfast; s. of James and Ethel Stewart (née Clarke) Galway; m. Anna Christine Renggli 1972; one s. two d. one s. by fmr. marriage; ed. Mountcollyer Secondary School, Royal Coll. of Music, Guildhall School of Music, Conservatoire National Supérieur de Musique, Paris. First post in Wind Band of Royal Shakespeare Theatre, Stratford-on-Avon; later worked with Sadler's Wells Orchestra, Royal Opera House Orchestra, BBC Symphony Orchestra; Principal Flute, London Symphony Orchestra and Royal Philharmonic Orchestra; Principal Solo Flute, Berlin Philharmonic Orchestra 1969-75; frequent appearances as a solo artist; has made numerous recordings. *Publication:* Autobiography 1978. *Leisure interests:* music, walking, swimming, films, theatre, television, chess, backgammon, talking to people. *Address:* c/o London Artists, 73 Baker Street, London, W1M 1AH, England. *Telephone:* 935-6244.

GAMASSI, Gen. Mohamed Abdul Ghani al-; Egyptian army officer and government official; b. 9 Sept 1921, el-Batanoun, Menoufia Governorate; ed. Mil. Acad., Staff Coll., Nasser Higher Mil. Acad. Asst. Dir. of Mobilization Dept. 1954-55; Commdr. 5th Reconnaissance Regt. 1955-57; Staff Officer, Armoured Corps 1957-59; Commdr. 2nd Armoured Brigade 1959-61; Commdr. Armour School 1961-66; Chief, Army Operational Branch 1966-67; Chief of Staff, Eastern Mil. Zone 1967-68; Deputy Dir. Reconnaissance and Intelligence Dept. 1968-70; Commdr. Operational Group, Syrian Front 1970-71; Chief, Armed Forces Training Dept. 1971-72; Chief of Operations Dept. and Deputy Chief of Staff of Armed Forces 1972-73; Chief of Staff of Armed Forces 1973-74; Minister of War and C.-in-C. of Armed Forces 1974-78, also ■ Deputy Prime Minister 1975-78; Mil. Adviser to Pres. Oct. 1978-; Order of Liberation 1952, Memorial Order of Founding of U.A.R. 1958, Star of Honour 1973, Star of Honour (PLO) 1974, Kt. Order of Mil. Honour (Syria) 1974, Order of Courage (Libya) 1974, Order of the Two Niles, First Class (Sudan) 1974, Order of King Abdel Aziz, First Class (Saudi Arabia) 1974, Order of Homayoun, First Class (Iran) 1975; numerous ribbons and medals. *Address:* Office of the President, Cairo, Egypt.

GAMBA, Pierino; Italian conductor; b. 16 Sept. 1936, Rome.; first concert Opera House, Rome 1945; has conducted ■ total of over 120 orchestras in concerts throughout Europe, America and Africa; guest conductor with Philharmonia Orchestra, Accademia di Santa Cecilia, Rome, Danish State Radio Orchestra, Belgian Nat. Orchestra and numerous other orchestras; Hon. Dir. nine symphony orchestras; Arnold Bax Medal 1962. *Address:* c/o Symphonicum Europae, B.P.1, Monte Carlo, Monaco.

GAMBRELL, David Henry; American politician; b. 20 Dec. 1929, Atlanta, Ga.; s. of E. Smythe Gambrell and Kathleen Hagood; m. Luck Flanders; one s. three d.; ed. Davidson Coll. and Harvard Law School. Practising Lawyer, Atlanta 1952-, Partner Gambrell & Mobley 1963-; Chair. Georgia Dem. Party; Senator from Georgia 1971-73; Pres. Atlanta Bar Assn. 1965, Georgia Bar Assn. 1967. *Address:* 3820 Castlegate Drive, N.W., Atlanta, Ga. 30327, U.S.A.

GAMEDZE, Dr. A. B., M.A.; Swazi teacher, theologian and diplomatist; b. 3 April 1921, Shiselweni District; s. of Rev. John Mbulawa Gamedze and Sarah Mavosho (née Shongwe) Gamedze; m.; three s. three d.; ed. at Mhlosheni and at Matsapa, Swaziland, at Umphumulo Inst., Natal, Adams Coll., Natal, and Wheaton Coll., Ill., U.S.A.; Head Teacher, Jerusalem School 1942, transferred to Franson Christian High School 1943; Head Teacher, Makhonza School 1946-47; started first rural market for Jerusalem and New Haven Farmers Assn.; at Wheaton Coll., Ill., studying educ., Christian educ. and theology 1947-51; Lecturer, Evangelical Teacher Training Coll., Natal 1951-56; Founder and Ed. Africa's Hope 1955-61; Pres. African Teachers' Christian Fellowship 1956; ordained Minister of Evangelical Church 1956; assisted Organizing Insp. of Religious Educ. in Secondary Schools, Transvaal 1958; Lecturer in Divinity and Educ. and Chaplain of Univ. of Fort Hare 1960-61; joined staff of Franson Christian High School 1962; Supt. (Grantee) of all Evangelical Church Schools 1962-65; Vice.-Pres. Evangelical Church; Vice-Pres. Swaziland Conf. of Churches 1964; Senior Liaison Officer, Swaziland 1965-67; mem. Senate 1967; Minister of Educ., Swaziland 1967-71; High Commr. in U.K., concurrently Amb. to France, Belgium and Fed. Repub. Germany 1971-72; Sec. to Swazi Nation 1973-74, then Private Sec. to King Sobhuza II, then Chief of Protocol, Dept. of Foreign Affairs; Ed. Imbokodvo Bulletin 1969-70; Dir. of Church Extension in northern Swaziland; dir. of various cos.; Hon. LL.D. (Wheaton Coll., U.S.A.) 1968. *Leisure interests:* writing, walking, Evangelical Church in Swaziland, indoor games. *Address:* P.O. Box 868, Mbabane, Swaziland. *Telephone:* 2661 (Office, 2427 (Home).

GAMMAL, Ali Hamdi El, B.A.; Egyptian journalist; b. 19 Sept. 1925, Cairo; m. Madiha El Gammal 1964; two d.; ed. Faculty of Agriculture, Cairo Univ.; began career on Al Taman evening newspaper 1947; joined Akhbar el Yom publishing house 1949, Asst. Chief Editor until 1956; Editor-in-Chief, Middle East News Agency 1956-57; Man. Editor Al Ahram 1957-75, Editor-in-Chief March 1975-. *Publications:* The Yellow Giant 1956, The Sino-Indian Conflict 1963. *Leisure interests:* tennis, swimming. *Address:* Al Ahram, Gallaa Street, Cairo; Home: 4 Sad el Aali Street, Dokki-Girza, Egypt. *Telephone:* 59010 (Office); 48887 (Office, personal); 804744 (Home).

GAMZATOV, Rasul Gamzatovich; Soviet poet and politician; b. 8 Sept. 1923, Tsadasa, Daghestan, A.S.S.R.; ed. Moscow A. M. Gorky Literary Inst. National poet of Daghestan; mem. Communist Party of Soviet Union 1944-; mem. staff, Maxim Gorky Inst., Moscow 1945-50; Chair. of Board of Union of Daghestan Writers 1951-; Deputy of Supreme Soviet of U.S.S.R. 1962-66; mem. Soviet Cttee. of solidarity with countries of Asia and Africa; State Prize 1952, Lenin Prize 1963, Orders of Lenin 1960, of Red Banner of Labour (2), etc. *Publications:* High Stellars 1962, Mountains and Valleys 1963, And Stars are Talking 1964, Selected Lyrics 1965, Sick Teeth (poetry) 1967, My Daghestan 1968, The Last Price 1978 (Firdausi Prize). *Address:* Daghestan A.S.S.R. Union of Writers, Makhachkala, U.S.S.R.

GANAO, David-Charles; Congolese politician; b. 20 July 1928, Djambala; m. Shirley O'Hayes 1964; four s.; ed. Teachers Training Coll. Teacher, then Headmaster; Diplomatic training in France 1960; Head of Political Affairs, Congolese Foreign Ministry 1960-63; Minister of Foreign Affairs 1963-68, of Co-operation, Tourism and Civil Aviation 1966-68; Amb. and Perm. Rep. to the UN, Geneva 1969-73; Amb. to Switzerland 1970-73; Minister of Foreign Affairs 1973-75; Deputy Exec. Sec., UN Econ. Comm. for Africa 1977-. *Address:* United Nations Economic Commission for Africa, P.O. Box 30001, Addis Ababa, Ethiopia.

GANCE, Abel; French film director and writer; b. 25 Oct. 1889; ed. Collège Chaptal, Paris. Pres. Television Cttee. Radiodiffusion-Télévision française 1958; Théatre de l'Empire (renamed Théatre Abel Gance) 1961; Grand Prix Nat. du Cinéma 1974; Officier Légion d'honneur, Commdr. Ordre des Arts et Lettres. Invented triple screen 1926, sound perspective 1932, pictoscope 1933. *Dir. of numerous films including:* La folie du Docteur Tube 1916, Barberousse 1916, Les gaz mortels 1916, J'accuse 1918, La roue 1922, Napoléon 1926, La fin du monde 1930, Mater Dolorosa 1932, Le maître de forges 1933, La dame aux camélias 1934, Lucrèce Borgia 1935, Un grand Amour de Beethoven 1936, Paradis perdu 1939, Vénus aveugle 1940, La capitaine fracasse 1942, La tour de Nesle 1954, Austerlitz 1960, Cyrano et d'Artagnan 1962. *Publications:* Un doigt sur le clavier (poetry), La victoire de Samothrace (play), J'accuse 1922, La beauté à travers le cinéma 1926, Prisme 1930. *Address:* 22 rue de l'Yvette, Paris 16e, France.

GANDAR, Leslie Walter; New Zealand sheep farmer and politician; b. 26 Jan. 1919, Wellington; s. of Max Gandar; m. Monica Justine Smith 1944; four s. two d.; ed. Wellington Coll. and Victoria Univ., Wellington; war service in R.N.Z.A.F. 1940-44; sheep farming 1945-; mem. Pohangina County Council 1952-69, Chair. 1959-69; mem. M'tu Catchment Board 1956-68; mem. Massey Univ. Council 1963, Chancellor 1970-75; Minister of Educ., Science and Tech. 1975-78; High Commr. to U.K. 1979-; Fellow, N.Z. Inst. of Agric. Science. *Address:* New Zealand, Haymarket, London, SW1Y 4TQ, England. Moorlands No. 6 RD, Feilding, New Zealand (Home).

GANDHI, Indira Priyadarshini; Indian politician; b. 19 Nov. 1917, Allahabad; d. of late Pandit Jawaharlal Nehru (Prime Minister of India, 1947-64) and Kamala Nehru; m. Feroz Gandhi 1942 (died 1960); two s.; ed. in India, Switzerland and Somerville Coll., Oxford.; f. Vanar Sena, children's org. to aid Congress non-co-operation movement 29; joined Congress 1938; imprisoned for thirteen months 1942; hostess for her father 1946-64; worked in riot areas under Mahatma Gandhi 1947; Pres. All-India Congress Party 1959-60; Minister for Information and Broadcasting, New Delhi 1964-66, Prime Minister 1966-77; in charge of Planning Ministry 1967; Minister of Atomic Energy 1967-77, of External Affairs 1967-69, of Finance 1969-70, of Home Affairs 1970-73, of Information and Broadcasting 1971-74, of Space 1972-77, of Electronics 1973-77, of Planning 1975-77, of Defence Nov.-Dec. 1975; acquitted after arrest on charges of corruption Oct. 1977; mem. Rajya Sabha 1964-67, mem. Lok Sabha 1967-77, Nov.-Dec. 1978

(expelled, imprisoned and released Dec. 1978), Leader Congress Parl. Party 1967-77; resigned from party Jan. 1978; Leader Indian National Congress (I) Jan. 1978-; Founder-Pres. Bal Sahayog, New Delhi; Pres. Training Centre for Vagrant Boys, Allahabad; Chair. Standing Cttee., Children's Film Soc.; mem. Children's Book Trust; mem. Working Cttee., Pres. Women's Dept.; fmr. mem. All-India Congress Cttee., Cen. Electoral Bd., Youth Advisory Bd.; mem. UNESCO Exec. Bd. 1960; Hon. D.Litt. (Agra), Hon. D.C.L. (Oxford), Hon. D.Sc. (Soviet Acad. of Sciences) 1976; Howland Memorial Prize, Yale Univ. 1960; Bharat Ratna Award 1971. *Publication:* Indira: The Speeches and Reminiscences of Indira Gandhi 1975. *Leisure interests:* folk and classical music, folk dances, bird-watching. *Address:* 1 Safdarjung Road, New Delhi 110011, India.

GANDOIS, Jean Guy Alphonse; French company executive; b. 7 May 1930, Nieul; s. of Eugène and Marguerite (née Teillet) Gandois; m. Monique Testard 1953; two s. ed. L'École Polytechnique, Paris. Civil Engineer, Ministry of Public Works, French Guinea 1954-58; mem. of technical co-operation missions to Brazil and Peru 1959-60; Asst. to Commercial Dir., Wendel & Cie 1961, Econ. Dir. 1966; Econ. and Commercial Dir. Wendel-Sidelor 1968; Gen. Man., Sacilor 1973; Pres., Dir. Gen., Sollac 1975; Dir. Gen., Rhone-Poulenc SA 1976, Vice-Pres. 1977-; Pres., Rhone-Poulenc Industries; Vice-Pres., l'Union des Industries Chimiques; Dir., Rhone-Poulenc Textile and l'Institut Merieux; Chevalier, Légion d'honneur. *Address:* Rhone-Poulenc SA, 22 avenue Montaigne, 75008 Paris (Office); 51 boulevard Suchet, 75016 Paris, France (Home). *Telephone:* 256 40. 00 (Office); 288 52. 83 (Home).

GANILAU, Ratu Sir Penaia Kanatabatu, K.B.E., C.M.G., C.V.O., D.S.O., E.D.; Fijian politician; b. 28 July 1918; m. 1st Adi Laisa Delaisomosomo Yavaca (deceased), five s. two d.; m. 2nd Adi Lady Davila Ganilau; ed. Queen Victoria Memorial School, Fiji, and Devonshire Course for Admin. Officers, Wadham Coll., Oxford; served with FIR 1940-46, rank of Capt.; Colonial Admin. Service 1947; Dist. Officer 1948-53; mem. Comm. on Fijian Post-Primary Educ. in the Colony 1953; served with Fiji Mil. Forces 1953-56; Fijian Devt. Officer and Roko Tui Cakaudrove conjoint 1956; seconded to post of Tour Man. and Govt. Rep., Fiji Rugby Football Tour of N.Z. 1957; Deputy Sec. for Fijian Affairs 1961-65; Minister for Fijian Affairs and Local Govt. 1965-70; Leader of Govt. Business and Minister for Home Affairs, Lands and Mineral Resources 1970-72; Minister for Communications, Works and Tourism 1972-75; Deputy Prime Minister 1973-; Minister for Home Affairs 1975-77, for Fijian Affairs 1977-79, and Rural Devt. Sept. 1977-; mem. Council of Ministers; Official mem. Legis. Council; Chair. Fijian Affairs Bd., Fijian Devt. Fund Bd., Native Land Trust Bd., Great Council of Chiefs; Pres. Fiji Rugby Union; represented Fiji against Maori All Blacks 1938 and during rugby tour of N.Z. 1939; Hon. Col., 2nd Battalion (Territorial), FIR 1973. *Leisure interest:* rugby football. *Address:* Ministry of Fijian Affairs and Rural Development, P.O. Box 2100, Government Buildings, Suva, Fiji.

GANSHOF, François Louis, LL.D., D.LIT.; Belgian professor of history and law; b. 14 March 1895, Bruges; s. of Arthur Ganshof and Louise van der Meersch; m. Nelly Kirkpatrick 1920; one s. three d.; ed. Royal Athenaeum, Bruges, and Univs. of Ghent and Paris; served at the Bar in Brussels 1922-23; Lecturer 1923-29, and Prof. 1929-61, of Medieval History and Legal History, Univ. of Ghent; served in Belgian Army in both World Wars; Hon. Major; mem. Royal Flemish Acad. of Sciences of Belgium, Inst. de France; corresp. F.B.A. and F.R.H.S.; Dr. h.c. (Glasgow, London, Cambridge). *Publications:* Etudes sur les Ministèriales 1926, Recherches sur les tribunaux de châtellenie 1932, Etude sur le développement des villes entre Loire et Rhin 1943, La Flandre sous les Premiers Comtes 1949, Feudalism 1954, La Belgique Carolingienne 1958, Recherches sur les capitulaires 1958, Charlemagne et les institutions de la monarchie franque 1965, Frankish institutions under Charlemagne 1968, Histoire des relations internationales, Vol. I, Le moyen âge 1969, Droit romain dans les capitulaires 1969, The Carolingians and the Frankish Monarchy 1971. *Address:* Rue Jacques Jordaens 12, 1050 Brussels, Belgium. *Telephone:* 648-15-65.

GANSHOF VAN DER MEERSCH, Viscount Walter, LL.D.; Belgian jurist; b. 1900, Bruges; m. Elizabeth Orts 1923; one s. one d.; ed. King's Coll., Wimbledon, England, Royal Athenaeum, Bruges, and Univs. of Paris and Brussels. Prof. of Constitutional Law 1938, European Law 1958, Comparative Law 1960, Univ. of Brussels; Pres. Inst. of European Studies, Brussels, and Inter-Univ. Centre of Public Law; Pres. Inter-Univ. Centre of Comparative Law; Judge Advocate-Gen. 1940; served in Belgian Army in both World Wars; Lieut.-Gen. High Commr. for Security of the Realm 1943; mem. Supreme Court of Justice 1947-; Minister of Gen. Affairs in Africa 1960; Judge ad hoc, Int. Court of Justice, the Hague 1960-68; Attorney-Gen. 1968-; Judge, European Court of Human Rights, Strasbourg 1973-; Lecturer, Hague Acad. of Int. Law 1975; Francqui Chair., Univ. Louvain 1975; Hon. Bencher Gray's Inn, London; mem. Académie Internationale de Droit comparé, Académie Royale des Sciences d'Outremer, Académie Royale des Sciences de Belgique: Hon. C.B. (U.K.), Grand Cross Order of Crown (Belgium), Grand Cross Order of Léopold (Belgium), Commdr. Legion of Merit (U.S.A.), Commdr. Légion d'honneur, Grand Officier Order Crown of Oak (Luxembourg), Belgian and French Croix de guerre and other war medals. *Publications:* Pouvoir de fait et règle de droit dans le fonctionnement des institutions politiques 1956, Fin de la souveraineté belge au Congo 1963, Le droit des organisations européennes 1964, Le droit des communautés européennes 1969. *Address:* 33 avenue Jeanne, 1050 Brussels, Belgium. *Telephone* 02-6472914.

GAPONOV-GREKHOV, Andrey Viktorovich; Soviet physicist; b. 7 June 1926, Moscow; ed. Gorky State Univ.; postgraduate student, Gorky State Univ. 1949-52; Instructor, Gorky Polytech. Inst. 1952-55; Senior Scientific Assoc., Head of Dept. of Radio Physics, Research Inst., Gorky State Univ. 1955-; Corresp. mem. U.S.S.R. Acad. of Sciences 1964-68, Academician 1968-; State Prize 1967. *Publications:* numerous theoretical and experimental works in field of inducted cyclotronic radiation, which led to development of a new class of electronic instruments—masers with cyclotronic resonance. *Address:* Gorky State University, Gorky, U.S.S.R.

GARANGO, Lieut. Marc Tiémoko, L. ■■ D.; Upper Voltan army officer and politician; b. 27 July 1927, Gaoua; ed. Univs. of Dakar, Paris, Aix-en-Provence; completed mil. training at Bingerville, Ivory Coast; served in French Army in Indochinese and Algerian campaigns; promoted to Lieut. 1961, Capt. 1963; Supply Officer, Upper Volta Army 1965-66; Minister of Finance and Commerce 1966-75; Amb. to China (Taiwan) 1966, to Fed. Repub. of Germany 1977-; fmr. Pres. Banque Centrale des Etats de l'Afrique de l'Ouest; Pres. Nat. Monetary Cttee. (BCEAO); Gov. IMF. *Address:* Embassy of Upper Volta, Bonn-Bad Godesberg, Wendelstadtallee 18, Federal Republic of Germany.

GARBA, John Mamman; Nigerian civil servant and banking official; b. 25 Sept. 1918, Maiduguri; s. of late Alimji Garba Katsina and Mairo Garba; m. Amina Kumbo 1956; four s. two d.; ed. Igbobi Coll. Yaba, Agricultural School, Zaria and London School of Economics. Dept. of Agric., Nigeria 1937-56; Asst. Sec. Office of Nigerian Commissioner, London 1957-58; Second Sec. Office of U.K. High Commr., Ottawa 1958; Acting Senior Asst. Sec., Office of Nigerian Commr., London 1958-59; Asst. Pilgrim Officer, Nigerian Pilgrim Office, Khartoum 1959-60; Chargé d'affaires, later Minister, Washington, D.C. 1960-61; Acting Deputy Perm. Sec., Ministry of Finance, Nigeria 1961, Deputy Perm. Sec. 1962; Deputy Sec. to Council of Ministers 1963; Exec. Dir. Int. Bank for Reconstruction and Devt., Int. Devt. Assen., and Int. Finance Corpn. 1963-66; Amb. to Italy 1966-72, concurrently accred. to Spain, Greece and Cyprus 1970-72, to U.S.A. 1972-75. *Address:* c/o Ministry for External Affairs, Lagos, Nigeria.

GARBA, Brig. Joseph Nanven; Nigerian army officer and politician; b. 17 July 1943, Langtang; m. Evelyn Okon Edem; two d.; ed. Sacred Heart School, Shendam, Nigerian Mil. School, Zaria, Mons Officer Cadet School, Aldershot, Staff Coll., Camberley, England. Platoon Command, 4th Bn. 1963, Company Command 1963-64, Mortar Platoon Command 1964; Second in Command Fed. Guards 1964-65; Gen. Staff Officer, 3 HQ, Second Brigade 1965; UN Observer, India and Pakistan 1965-66; Officer Commanding Fed. Guards 1966-68; Commdr. Brigade of Guards 1968-75; mem. Supreme Mil. Council 1975-; Commr. for External Affairs 1975-78. *Leisure interests:* basketball, photography. *Address:* Supreme Military Council, Lagos, Nigeria.

GARBO, Greta Lovisa; American (b. Swedish) film actress; b. (as Greta Gustafsson) 18 Sept. 1905. National Theatre 1924; star of first film Gösta Berlings Saga in Sweden 1924; went to U.S.A. 1925; special Acad. Award 1954. *Films include* Joyless Street 1925, The Torrent 1926, The Temptress 1926, Flesh and the Devil 1927, Love 1927, The Divine Woman 1928, The Mysterious Lady 1928, A Woman of Affairs 1929, Wild Orchid 1929, The Single Standard 1929, The Kiss 1929, Romance 1930, Inspiration 1931, Mata Hari 1931, Grand Hotel 1932, Queen Christina 1933, The Painted Veil 1934, Anna Karenina 1935, Camille 1936, Conquest 1937, Ninotchka 1939, Two Faced Woman 1941. *Address:* 450 East 52nd Street, New York, N.Y., U.S.A.

GARBUZOV, Vasiliy Fyodorovich; Soviet politician; b. 3 July 1911; ed. Finance and Economics Inst., Kharkov. Dozent, Finance and Econs. Inst., Kharkov 1933-42; Commissariat for Finance,

Kirghizia, later All-Union Commissariat for Finance 1942-44; Dir. Finance and Econs. Inst., Kiev 1944-53; Chair. Ukraine State Plan 1950-52; Deputy then First Deputy Minister of Finance, U.S.S.R. 1952-60, Minister of Finance 1960-; mem. C.P.S.U. 1938-, mem. Cen. Cttee. C.P.S.U. 1961-; Deputy to Supreme Soviet U.S.S.R. 1958-; Order of Lenin (twice), Order of the Red Banner of Labour, and other decorations. *Address:* Ministry of Finance, 9 Ulitsa Kuibysheva, Moscow, U.S.S.R.

GARCÉS, Francisco; Chilean banker and economist; b. 30 Aug. 1934, Santiago; s. of Francisco and Maria (née Garrido) Garcés; m. Maria Isabel Echeverria Ruiz-Tagle; one s.; ed. Catholic Univ. of Chile, Williams Coll., Columbia Univ. Research Dept., Central Bank of Chile 1958-72; Financial Adviser, Ministry of Planning, Brazil 1973; Exec. Sec. Cttee. on Public Sector Securities 1975; Man., Capital Market and Financial Institutions, Central Bank of Chile 1975-77; Pres. Central Savings and Loan Bank 1977; Alt. Exec. Dir. IMF 1977-78, Exec. Dir. 1978-; Prof. School of Econs., Univ. of Chile 1971-76; fmr. Dir. Casapropia Savings and Loan Assn. and Nat. Sugar Industry. *Publications:* numerous articles on financial subjects. *Address:* 4620 North Park Avenue, Suite 1102 W, Chevy Chase, Md. 20015, U.S.A. *Telephone:* 656-9417.

GARCÍA-BAXTER, Tomás Allende; Spanish politician; b. 4 Feb. 1920, Madrid; m.; nine c.; ed. Univ. of Madrid. Pres., Cámara Oficial Sindical Agraria de Guadalajara 1953, subsequently Pres. Cen. Econ. Section of Joint Nat. Council of Hermandades Sindicales de Labradores y Ganaderos 1962-65; fmr. Pres. Cttee. of Econ. Problems, European Agric. Confed., now Adviser; Vice-Pres. Agric. Comm.; mem. Cortes; mem. Govt. Comm. on Fundamental Law and Presidency; sub-commissary, Econ. and Social Devt. Plan 1965; Minister of Agric. 1969-75; Cruz de Guerra and several awards for services to agriculture. *Publications:* works on agricultural economics. *Address:* c/o Ministerio de Agricultura, Madrid, Spain.

GARCÍA LÓPEZ, Ignacio; Spanish politician; b. 1924, Madrid; m.; mem. of Inst. of Syndical Studies; fmr. Sec.-Gen. SEU; fmr. Nat. Sec. of Spanish Youth Org.; fmr. mem. Cortes, Nat. Councillor for Province of Santander, Nat. Councillor of Educ.; fmr. Civil Gov. of Pontevedra and Provincial Sec. Movimiento FET y de las JONS Falange, Vice-Pres. 1975-76, Minister Sec.-Gen. 1976-77. *Address:* c/o Consejo de Ministros, Madrid, Spain.

GARCÍA MARQUEZ, Gabriel (Gabo); Colombian writer; b. 1928, Aracataca; m. Mercedes García Marquez; two s.; ed. secondary school and Univ. of Bogotá, Univ. of Cartagena; began writing books 1946; lived in Baranquilla; Corresp. Espectador in Rome, Paris; first novel published while living in Caracas, Venezuela 1957; est. bureau of Prensa Latina (Cuban press agency) in Bogotá; worked for Prensa Latina in Havana, Cuba, then as Deputy Head of New York Office 1961; lived in Spain, contributing to magazines, Mundo Nuevo, Casa de las Américas; went to Mexico; Rómulo Gallegos Prize 1972. *Publications:* novels include: La hojarasca 1957, El Coronel no tiene quien la escriba 1961, Los funerales de la Mamá Grande 1962, La mala hora 1962, Cien años de soledad 1967 (English trans. A Hundred Years of Solitude 1970), Relato de un náufrago 1970, El Otoño del Patriarca 1976; stories: Leafstorm and other stories, Innocent Erendira and other stories 1978. *Address:* Living in Mexico.

GARCÍA PELÁEZ, Raúl, LL.D.; Cuban lawyer, politician and diplomatist; b. 15 Jan. 1922; ed. Univ. of Havana; fmr. mem. July 26th Revolutionary Cttee.; later Prosecutor at Camagüey Court of Appeal, then Chair. Camagüey Municipal Council for Co-ordination and Inspection; then Gen. Treas. Revolutionary Forces in Camagüey Province, Rep. of Nat. Inst. of Agrarian Reform in Nuevitas, and Gen. Sec. Matanzas Prov. Cttee. of United Party of Cuban Socialist Revolution; mem. Cen. Cttee. of Cuban CP 1965-, Head of Revolutionary Orientation Comm. of Cent. Cttee. of Cuban CP until 1967; Amb. to U.S.S.R. 1967-74. *Address:* Partido Comunista, Plaza de la Revolución, Havana, Cuba.

GARCÍA-PEÑA, Roberto; Colombian journalist; b. 1910; ed. Externado de Colombia, Bogotá, and Univ. of Chile. Reporter El Tiempo 1929; Private Sec. to Minister of Govt. 1930; Sec. Colombian Embassy, Peru 1934, Chile 1935, Chargé d'affaires 1937; Sec.-Gen. Ministry of Foreign Affairs 1938; Editor El Tiempo 1939-; mem. Council of Dirs., Inter-American Press Soc; Best Journalist Award 1977, Gold Medal 1978. *Address:* Avenida Jiménez 6-77, Bogotá, D.E., Colombia.

GARCÍA ROBLES, Alfonso, LL.D.; Mexican diplomatist; b. 20 March 1911; s. of Quirino and Theresa Robles García; m. Juana María de Szyszlo 1950; two s.; ed. Univ. Nacional Autónoma de México, Univ. of Paris, and Acad. of International Law, The Hague. Foreign Service 1939-, Sweden 1939-41; Head, Dept. of Int. Orgs., later Dir.-Gen. of Political Affairs and Diplomatic Service 1941-46; Dir. of Div. of Political Affairs, UN Secretariat 1946-57; Head of Dept. for Europe, Asia and Africa, Mexican Ministry of Foreign Affairs 1957-61; Amb. to Brazil 1962-64; Under-Sec. for Foreign Affairs 1964-71; Perm. Rep. to UN 1971-75; Sec. for Foreign Affairs 1975-76; Pres. Preparatory Comm. for the Denuclearization of Latin America 1964-67; Perm. Rep. to Disarmament Conf., Geneva 1977–; Chair. Mexican Del. to UN Gen. Ass. on disarmament, New York 1978. *Publications:* Pan-Americanism and the Good Neighbour Policy 1940, The Sorbonne Yesterday and Today 1943, Post-War Mexico 1944, Mexican International Policy 1946, Echoes of the Old World 1946, The Post-War World: From the Atlantic Charter to the San Francisco Conference (2 vols.) 1949, The Geneva Conference and the Extent of Territorial Waters 1959, The Denuclearization of Latin America 1967, The Ilatelolco Treaty 1967, Mexico in the United Nations (2 vols.) 1970, The Prohibition of Nuclear Arms in Latin America 1975, Six Years of Mexican Foreign Policy 1976, The Review Conference of the non-Proliferation Treaty 1977, 338 Days of Ilatelolco 1977. *Address:* 13 Av. de Budé, Geneva, Switzerland. *Telephone:* 34-57-40.

GARDENT, Paul; French mining executive; b. 10 July 1921, Grenoble; m. Janine Robert 1958; one s.; ed. Ecole Polytechnique. Mining Engineer, Valenciennes 1944-48; Asst. Chief Mining Engineer, Lille 1948-49, Chief Mining Engineer 1950; Tech. Adviser to J.M. Louvel (Minister of Industry and Commerce) 1950-52; Dir. of Gen. Studies, Charbonnages de France 1952-58; Dir. of Gen. Studies and Financial Services, Houillères du bassin de Lorraine 1958-63; Asst. Dir., then Dir.-Gen. Houillères du bassin du Nord et du Pas-de-Calais 1963-68; Dir.-Gen. Charbonnages de France 1968-. *Address:* Charbonnages de France, B.P. 396 08, 75360 Paris—Cédex 08 (Office); 5-7 rue de la Chaise, Paris 75007, France (Home).

GARDINER, Baron (Life Peer) cr. 1963, of Kittisford, in the County of Somerset; **Gerald Gardiner,** P.C., C.H., M.A.; British barrister; b. 30 May 1900; ed. Harrow School and Magdalen Coll., Oxford. Pres. Oxford Union and Oxford Univ. Dramatic Soc. 1924; called to Bar 1925; mem. Cttee. on Supreme Court Practice and Procedure 1947-53; Q.C. 1948; mem. Lord Chancellor's Law Reform Cttee. 1952-63; Master of Bench of Inner Temple 1955; Chair. Gen. Council of the Bar 1958, 1959; Lord Chancellor 1964-70; mem. Int. Comm. of Jurists 1971-; Chancellor The Open Univ. 1972-77; Hon. LL.D. (Birmingham, London, Southampton). *Publications:* Capital Punishment as a Deterrent and the Alternative 1956, Law Reform Now (Joint Editor) 1963. *Address:* House of Lords, London, S.W.1, England.

GARDINER, Robert Kweku Atta, B.SC., M.A.; Ghanaian civil servant and international administrator; b. 29 Sept. 1914, Kumasi; s. of Phillip H. D. Gardiner and Nancy T. Ferguson; m. Linda Charlotte Edwards 1942; one s. two d.; ed. Fourah Bay Coll., Sierra Leone, Selwyn Coll., Cambridge, and New Coll., Oxford. Lecturer in Econs. Fourah Bay Coll. 1943-46; Area Specialist UN Trusteeship Dept. 1947-49; Dir. Dept. of Extra-Mural Studies, Univ. Coll. Ibadan, Nigeria 1949-53; Dir. Dept. of Social Welfare and Community Devt., Ghana 1953-55; Chair. Kumasi Coll. of Tech. Council, Ghana 1954-58; Perm. Sec. Ministry of Housing, Ghana 1955-57; Establishment Sec. and Head of Civil Service 1957-59; Deputy Exec. Sec. UN Economic Comm. for Africa, Addis Ababa 1959-61, Exec. Sec. 1963-75; Commr. for Econ. Planning, Ghana 1975-78; Chair. Commonwealth Foundation 1970-73; David Livingstone Visiting Prof. of Econs., Strathclyde Univ. 1970-71; Sec. Ghana Presidential Comm. and Council of States; Special Envoy of UN Sec.-Gen. to the Congo 1961; Dir. UN Div. for Public Admin. 1961; UN Special Rep. to the Congo 1962-63; BBC Reith Lecturer 1965; Hon. D.C.L. (East Anglia), Hon. LL.D. (Bristol, Ibadan, East Africa, Strathclyde), Hon. Ph.D. (Uppsala). *Publication:* Development of Social Administration 1954 (jointly). *Leisure interests:* golf, reading, music, walking. *Address:* c/o Ministry of Economic Planning, Accra, Ghana.

GARDNER, Ava; American actress; b. 24 Dec. 1922, Smithfield, North Carolina; m. 1st Mickey Rooney 1942, m. 2nd Artie Shaw 1945; m. 3rd Frank Sinatra (q.v.) 1951 (divorced). *Films include:* Lost Angel, Three Men in White, Singapore, One Touch of Venus, Great Sinner, East Side West Side, My Forbidden Past, Show Boat, Love Star, The Snows of Kilimanjaro, Ride Vaquero, Mogambo, The Barefoot Contessa, Bhowani Junction, The Little Hut, The Sun also Rises, Naked Maja, On the Beach, 55 Days to Peking, Night of the Iguana, The Bible, Mayerling, Tam-Lin, The Life and Times of Judge Roy Bean, Earthquake, The Bluebird, The Cassandra Crossing. *Address:* c/o Paul Kohner Inc., 9169 Sunset Boulevard, Los Angeles, Calif. 90069, U.S.A.

GARDNER, Dame Helen Louise, D.B.E., M.A., D.LITT., F.B.A., F.R.S.L.; British teacher and writer; b. 13 Feb. 1908, London; d. of Charles Henry and Helen Mary Roadnight Gardner (née Roadnight Cockman); ed. North London Collegiate School and St. Hilda's Coll., Oxford. Lecturer, Royal Holloway Coll. 1931-34; Univ. of Birmingham 1934-41; Tutor, St. Hilda's Coll. Oxford 1941-54, Fellow 1942-66, Hon. Fellow 1966-; Reader in Renaissance English Literature, Oxford Univ. 1954-66; Merton Prof. of English Literature, Oxford Univ. 1966-75; Fellow, Lady Margaret Hall, Oxford 1966-75, Hon. Fellow 1975-; Del. Oxford Univ. Press 1959-75; Visiting Prof. Univ. of Calif. 1954; Riddell Lecturer, Univ. of Durham 1956; Alexander Lecturer, Univ. of Toronto 1962; Ewing Lecturer, Univ. of Calif. 1966; Messenger Lecturer, Cornell Univ. 1967; Eliot Memorial Lecturer, Univ. of Kent 1968; Charles Eliot Norton Prof., Harvard 1979-80; mem. Cttee. for Higher Educ. 1961, Council for Nat. Academic Awards 1964-67; Trustee, Nat. Portrait Gallery 1967-78. *Publications:* The Art of T.S. Eliot 1949, The Divine Poems of John Donne (editor) 1952, The Metaphysical Poets (editor) 1957, The Business of Criticism 1959, The Elegies and the Songs and Sonnets of John Donne 1965, A Reading of 'Paradise Lost' 1965, Religion and Literature 1971, The Faber Book of Religious Verse (editor) 1972, The New Oxford Book of English Verse (editor) 1972, The Composition of "Four Quartets" 1978. *Leisure interests:* travel, gardening. *Address:* Myrtle House, Eynsham, Oxford, England. *Telephone:* (0865) 881497.

GARDNER, John William, PH.D., LL.D.; American writer and social worker; b. 8 Oct. 1912; s. of William and Marie Gardner; m. Aida Marroquin 1934; two d.; ed. Stanford Univ., and Univ. of Calif. Teaching Asst. in Psychology, Univ. of Calif. 1936-38; Instructor in Psychology, Conn. Coll. 1938-40; Asst. Prof. Mount Holyoke Coll. 1940-42; Head Latin-American Section, Foreign Broadcasting Intelligence Service, Fed. Communications Comm. 1942-43; served U.S. Marine Corps 1943-46; staff mem. Carnegie Corpn. of New York 1946-47, Exec. Assoc. 1947-49, Vice-Pres. 1949-55, Pres. 1955-65, Consultant 1968-; Pres. Carnegie Foundation 1955-65; U.S. Secretary of Health and Educ. and Welfare 1965-68; Head of Urban Coalition (Campaign to transform cities of America) 1968-70; Dir. New York Telephone Co. 1961-65, Shell Oil Co. 1962-65, Time Inc. 1968-72, American Airlines 1968-71; Chair. Common Cause (Citizen's Lobby) 1970-77; Fellow, American Psychological Assn., American Acad. of Arts and Sciences; Chair. Soc. Sciences Panel, Scientific Advisory Bd., U.S.A.F. 1951-55; Dir. New York School of Social Work 1949-55, Metropolitan Museum of Art 1957-65, Stanford Univ. 1968-, Rockefeller Brothers Fund 1968-77, New York Foundation 1970-76, Senior Exec. Council, Conf. Board 1970-75; mem. Pres. Kennedy's Task Force on Educ. 1960; Chair. U.S. Advisory Comm. on Int. Educ. and Cultural Affairs 1962-64, Pres. Johnson's Task Force on Educ. 1964, White House Conf. on Educ. 1965, Pres.'s Comm. on White House Fellowships 1977-; Special Adviser Aspen Inst. for Humanistic Studies 1977-; Consultant, United Way of America 1977-; Hon. degrees from numerous American colls. and univs.; U.S.A.F. Exceptional Service Award 1956, Presidential Medal of Freedom 1964, Nat. Acad. of Sciences Public Welfare Medal 1966, UAW Social Justice Award 1968, AFL-CIO Murray Green Medal 1970, Christopher Award 1971, American Inst. for Public Service Award 1973, Robert F. Kennedy Humanitarian Award 1974, Clark Kerr Educ. Award 1974. *Publications:* Excellence 1961, Self-Renewal 1963, No Easy Victories 1968, The Recovery of Confidence 1970, In Common Cause 1972, Know or Listen to Those Who Know (with Francesca Gardner Reese) 1975, Editor To Turn the Tide (by John F. Kennedy), Morale 1978. *Address:* 2030 M Street N.W., Washington, D.C. 20036 (Office); 5325 Kenwood Avenue, Chevy Chase, Md. 20015, U.S.A. (Home).

GARDNER, Kenneth Burslam, B.A., A.L.A.; British orientalist and librarian; b. 5 June 1924, London; s. of Douglas V. Gardner and Dora V. Bowden; m. Cleone Winifred Adams 1949; two s. two d.; ed. Univ. Coll., London and School of Oriental and African Studies, Univ. of London. Asst. Librarian, School of Oriental and African Studies, Univ. of London 1950-54; Asst. Keeper, Dept. of Oriental Printed Books and MSS., British Museum 1955-57; Keeper 1957-70, Prin. Keeper of Printed Books 1970-74; Deputy Keeper of Oriental Printed Books and MSS, British Library 1974-. *Leisure interests:* gardening, reading, mountain walking. *Address:* 1 Duncombe Road, Bengeo, Hertford, England. *Telephone:* Hertford 53591.

GARDNER, Richard Newton, D.PHIL.; American diplomatist; b. 9 July 1927, New York, N.Y.; s. of Samuel I. and Ethel E. Gardner; m. Danielle Almeida Luzzatto 1956; one s. one d.; ed. Harvard Univ., Yale Law School, Oxford Univ. Rhodes Scholar to Oxford Univ. 1951-54; Prof. of Law and Int. Org., Columbia Univ. 1957-61, 1965-76; Deputy Asst. Sec. of State for Int. Org. Affairs, U.S. State Dept. 1961-65; U.S. Amb. to Italy 1977-; Arthur S. Flemming Award 1963. *Publications:* Sterling-Dollar Diplomacy 1956, In Pursuit of World Order 1964, Blueprint for Peace 1966, The Global Partnership: International Agencies and Economic Development 1968. *Leisure interests:* tennis, music, reading. *Address:* American Embassy, Via Vittorio Veneto 119-A, Rome, Italy. *Telephone:* (06) 46.74 (Embassy).

GARLAND, George David, PH.D., F.R.S.C.; Canadian geophysicist; b. 29 June 1926, Toronto; s. of N. L. Garland and Jean McPherson; m. Elizabeth MacMillan 1949; two s. one d.; ed. Univ. of Toronto and St. Louis Univ. Geophysicist, Dominion Observatory, Ottawa 1950-54; Prof. of Geophysics, Univ. of Alberta, Edmonton 1954-63; Prof. of Geophysics, Univ. of Toronto 1963-; Deputy Gen. Sec. Int. Union of Geodesy and Geophysics 1960-63, Gen. Sec. 1963-73. *Publications:* The Earth's Shape and Gravity 1965, and papers in scientific journals dealing with gravity, terrestrial magnetism, structure of the earth's crust, electrical conductivity of the crust, heat flow from the earth. *Leisure interests:* canoeing, history of Canadian exploration, early maps. *Address:* Department of Physics, University of Toronto, Toronto 5 (Office); 1 Forest Glen Crescent, Toronto 12, Canada (Home). *Telephone:* 928-3159 (Office); 488-5127 (Home).

GARLAND, Hon. Ransley Victor, M.P., F.C.A., F.C.I.S.; Australian accountant and politician; b. 5 May 1934, Perth; m. Lynette Jamieson 1960; two s. one d.; ed. Hale School and Univ. of W. Australia; in practice as Chartered Accountant 1958-70, incl. univ. tutoring; Dir. of various cos. 1960-67; Councillor, Claremont Town Council 1963-70; Deputy Mayor of Claremont 1969; Fed. Councillor 1964-69; Senior Vice-Pres. Liberal Party of W. Australia 1965-69; mem. House of Reps. 1969-; Minister of State for Supply 1971-72; Minister Assisting the Treas. March-Dec. 1972; Acting Minister of Customs and Excise June-July 1972; Leader Australian Del. to IPU 1971; Parl. Adviser to 28th Gen. Assembly of UN 1973; Minister for Posts and Telecommunications and Minister assisting the Treas. 1975-76, for Veterans' Affairs 1977-78, for Special Trade Representation Dec. 1977-, Acting Minister assisting the Minister for Trade Resources 1978-; Chair. House of Reps. Expenditure Cttee. 1976-; Fellow, Inst. of Chartered Accountants, Inst. of Chartered Secs. *Leisure interests:* golf, squash, music, reading. *Address:* Parliament House, Canberra, A.C.T. 2600; 191 St. George's Terrace, Perth, W.A. 6000; Richardson Avenue, Claremont, W.A. 6010, Australia.

GARNER, Baron (Life Peer), cr. 1969; (**Joseph John**) **Saville Garner,** G.C.M.G.; British civil servant; b. 14 Feb. 1908, London; s. of Joseph and Helena M. (Culver) Garner; m. Margaret Beckman 1938; two s. one d.; ed. Jesus Coll., Cambridge; apptd. Dominions Office 1930; Private Sec. to successive Secs. of State 1940-43; Senior Sec. Office of High Commr. Ottawa 1943-46, Deputy High Commr. 1946-48; Asst. Under-Sec. Commonwealth Relations Office 1948-51; Deputy High Commr. in India 1951-53; Deputy Under-Sec. Commonwealth Relations Office 1953; High Commr. in Canada 1956-61; Perm. Under-Sec. of State, Commonwealth Relations Office (C.R.O.) 1962-66; Commonwealth Office 1966-68; Head of Diplomatic Service 1965-68; fmr. Chair. Commonwealth Scholarship Comm. (until 1977); Royal Postgraduate Medical School, Inst. of Commonwealth Studies, London Board of Dirs. Bank of Adelaide, Highgate School 1976-; mem. Security Comm. 1968-73; hon. degrees from several universities. *Publications:* The Books of the Emperor Wu Ti (Trans. from German) 1930, The Commonwealth Office 1925-68 1978. *Leisure interest:* gardening. *Address:* Highdawn Farmhouse, Horam Heathfield, E. Sussex, TN21 0R, England.

GARNER, Wendell Richard, PH.D.; American psychologist and university professor; b. 21 Jan. 1921, Buffalo, N.Y.; s. of Richard Charles and Lena Cole Garner; m. Barbara Chipman Ward 1944; one s. two d.; ed. Franklin and Marshall Colls. and Harvard Univ. Instructor, rising to Prof., Johns Hopkins Univ. 1946-67, Chair. Dept. of Psychology 1954-64; James Rowland Angell Prof. of Psychology, Yale Univ. 1967-, Dir. of Social Sciences 1972-73, Chair. Dept. of Psychology 1974-77, Dean of the Graduate School 1978-; mem. Nat. Acad. of Sciences; Distinguished Scientific Contribution Award, American Psychological Assn. 1964, Warren Medal, Soc. of Experimental Psychologists 1976. *Publications:* Applied Experimental Psychology (with A. Chapanis and C. T. Morgan) 1949, Uncertainty and Structure as Psychological Concepts 1962, The Processing of Information and Structure 1974. *Leisure interests:* gardening, boating. *Address:* Department of Psychology, Yale University, New Haven, Conn. 06520 (Office); 48 Yowago Avenue, Branford, Conn. 06405, U.S.A. (Home). *Telephone:* 203-436-0343 (Office); 203-481-0007 (Home).

GARNETT, David, C.B.E.; British novelist; b. 9 March 1892, Brighton, Sussex; s. of Edward and Constance Garnett; m. 1st Rachel Alice Marshall 1921 (died 1940), two s.; m. 2nd Angelica Vanessa Bell 1942, four d.; ed. Imperial Coll. of Science, South Kensington; educated as biologist; Fellow, Imperial Coll. of Science and Tech.; Hon. D.Litt. (Birmingham); C.Lit. (R.S.L.) 1977. *Publications:* Lady into Fox (Hawthornden and Tait-Black Prizes) 1922, A Man in the Zoo 1924, The Sailor's Return 1925, Go She Must 1927, The Old Dove-cote 1928, No Love 1929, The Grasshoppers Come 1931, A Rabbit in the Air 1932, Pocahontas 1933, Beany-Eye 1935, The War in the Air 1941, The Golden Echo 1953, Flowers of the Forest, Aspects of Love 1955, A Shot in the Dark 1958, A Net for Venus 1959, The Familiar Faces 1962, Two by Two 1963, Ulterior Motives 1966, A Clean Slate 1971, The Sons of the Falcon, Purl and Plain 1973, Plough Over the Bones 1973, The Master Cat 1974, Up She Rises 1977, Great Friends 1979; Editor: The Letters of T. E. Lawrence, The Novels of Thomas Love Peacock, The Essential T. E. Lawrence, The Garnett-White Letters 1968, Carrington: Letters and Extracts from her Diaries 1970. *Leisure interests:* fishing, travel. *Address:* Le Vergeř de Charry, 46 Montcuq, France. *Telephone:* (65) 31-85-35.

GARNHAM, Percy Cyril Claude, C.M.G., M.D., D.SC., F.R.C.P., F.I.BIOL., F.R.S.; British medical protozoologist; b. 15 Jan. 1901, London: s. of late Lieut. P. C. Garnham, R.N.D. and late Edith Garnham; m. Esther Long Price 1924; two s. four d.; ed. St. Bartholomew's Hospital, London. Colonial Medical Service 1925-47; f. Div. of Insect Borne Diseases, Nairobi, Kenya 1944; Reader in Medical Parasitology, London School of Hygiene and Tropical Medicine 1947-51, Prof. of Medical Protozoology and Dir. Dept. of Parasitology, London School of Hygiene and Tropical Medicine 1952-68; Prof. Emer. and Sr. Research Fellow, Imperial Coll. of Science and Tech., London 1968-; Fogarty Int. Scholar 1970; Pres. Royal Soc. of Tropical Medicine and Hygiene 1967-69; Pres. British Soc. of Parasitologists 1970-72, European Fed. of Parasitologists 1971-; Pres. 2nd Int. Conf. on Protozoology; Pontifical Academician, Acad. of Sciences, Vatican; Assoc. mem. Acad. Royale de Médecine, Belgium, Acad. Nat. de Médecine, France; Foreign mem. Acad. Royale des Sciences d'Outre-Mer de Bruxelles, Accad. Lancisiana, Rome, Royal Danish Acad. of Sciences and Letters; Hon. mem. Polish, Mexican and British Socs. of Parasitologists, Soc. of Protozoologists, Soc. Pathologie Exotique, Paris, Brazilian, British and American Socs. of Tropical Medicine, Soc. de Protistologues de la Langue française, Soc. de Geografia de Lisboa; Hon. Fellow, London School of Hygiene and Tropical Medicine 1976; Hon. Fellow Imperial Coll. of Science and Tech. 1979; Hon. F.R.C.P. (Edinburgh); Hon. Dr. (Bordeaux); Commdr. Mil. and Hospitaller Order of St. Lazarus of Jerusalem, Univ. of London Gold Medal 1928, Darling Medal and Prize WHO 1952, Bernhardt Nocht Medal, Hamburg 1958, Gaspar Vianna Medal, Brazil 1962, Manson Medal 1966, Emile Brumpt Prize (Paris) 1970, Médaille d'Or, Soc. de Pathologie Exotique 1971, Médaille de Vermeil, Acad. Nat. de Médecine, France 1972, Mary Kingsley Medal, Liverpool 1973, Rudolf Leuckart Medal (Germany) 1974. *Publications:* Immunity to Protozoa (with Pierce and Roitt) 1963, Malaria Parasites 1966, Progress in Parasitology 1971. *Leisure interests:* chamber music, European travel. *Address:* Imperial College of Science and Technology Field Station, Ashurst Lodge, Ascot, Berks.; Southernwood, Farnham Common, Bucks., England (Home). *Telephone:* 0990-23911 (Office); Farnham Common 3863 (Home).

GARNIER, E. L. M. René, DR. ès SC.; French scientist; b. 16 Jan. 1887, Chalon-sur-Saône; s. of Commandant Edouard Garnier and Clémence Boutonnet; m. Germaine Queyrat 1913 (deceased); two s. three d. (one deceased); ed. Externat St. Michel (Moulins) and Univ. de Paris. Prof. Faculté des Sciences, Poitiers 1913-27; Prof. Faculté des Sciences, Paris 1928-58, Hon. Prof. 1959-; Lecturer, Ecole Polytechnique, Paris 1943-52, Examiner of students 1952-58; mem. Acad. of Sciences (Institut de France) 1952-, Accad. Naz. Lincei (Rome), Acad. Royale de Belgique; Commdr. Légion d'honneur. *Publications:* Cours de mathématiques générales, Leçons d'algèbre et de géométrie, Cours de cinématique, and numerous articles in scientific journals. *Address:* 21 rue Decamps, Paris 16e, France. *Telephone:* 553-27-78.

GARRELS, Robert M., B.S., M.S., PH.D.; American professor of geology; b. 24 Aug. 1916, Detroit, Mich.; s. of John C. Garrels and Margaret Anne Garrels; m. 1st Jane M. Tinen 1940 (divorced 1969), one s. two d.; m. 2nd Cynthia A. Hunt 1970; ed. Univ. of Michigan and Northwestern Univ. Instructor, Asst., Assoc. Prof., Northwestern Univ. 1941-52, Prof. of Geology 1965-69; Chief of Solid State Group, Geochem. and Petrology Branch, U.S. Geological Survey 1952-55; Assoc. Prof., Harvard Univ. 1955-57, Prof. of Geology 1957-63, Chair. Dept. of Geological Sciences 1963-65; Henri Speciale Chair of Applied Science, Univ. of Brussels 1962-63; Prof. of Geology, Scripps Inst. of Oceanography 1969-71; Captain James Cook Prof. of Oceanography, Univ. of Hawaii 1972-74; Prof. of Geology Northwestern Univ. 1974-; mem. Nat. Acad. of Sciences, American Acad. Arts and Sciences; Hon. D.Sc. (Brussels) 1969, (Univ. Louis Pasteur, Strasbourg) 1976; Petroleum Research Fund of American Chemical Soc. Type C Award 1963, Best Paper Award (with F. T. Mackenzie) in Journal of Sedimentary Petrology 1966, Arthur L. Day Medal of Geological Soc. of America 1966, V. M. Goldschmidt Award, Geochem. Soc. 1973, Penrose Medal of Geological Soc. of America 1978. *Publications:* A Textbook of Geology 1951, Mineral Equilibria at Low Temperature and Pressure 1960, Solution, Minerals and Equilibria (with C. L. Christ) 1965, The Evolution of Sedimentary Rocks (with F. T. Mackenzie) 1971, Water, The Web of Life (with Cynthia Hunt) 1972, Chemical Cycles and the Global Environment (with F. T. Mackenzie and Cynthia Hunt) 1975. *Leisure interest:* athletics. *Address:* Department of Geological Sciences, Locy Hall, Northwestern University, Evanston, Ill. 60201, U.S.A. *Telephone:* (312) 492-5097.

GARRETT, Ray, Jr., A.B., LL.B.; American lawyer and government official; b. 11 Aug. 1920, Chicago, Ill.; s. of Ray and Mabel May Garrett; m. Virginia R. Hale 1943; one s. three d.; ed. Yale Univ., Harvard Law School. Capt. U.S. Army Field Artillery, European Theater 1942-46; Teaching Fellow, Harvard Law School 1949-50; Asst. Prof. New York Univ. School of Law 1950-52; private practice, Gardner, Carton & Douglas (Attorneys), Chicago 1952-54, 1958-73, 1976-; Dir. Corporate Regulation Div. U.S. Securities and Exchange Comm. 1954-58, Chair. 1973-76; Chair. Corpn., Banking and Business Law Section, American Bar Assn. 1964-65, Consultant, Fed. Securities Code Project, American Law Inst. 1970-; Public Gov., Nat. Assn. of Securities Dealers 1976-; Dir. Lincoln Nat. Corpn., Chicago Title and Trust Co. 1976-; mem. Public Oversight Bd., American Inst. of Certified Accountants 1978-. *Publications:* Commentaries on Model Debenture Indentures (Chair. of Advisory Cttee.) 1967, and articles in various legal publs. *Leisure interests:* fishing, travel. *Address:* 182 Myrtle Street, Winnetka, Ill. 60093, U.S.A. (Home). *Telephone:* (202) 755-1130 (Office); (312) 726-2452 (Home).

GARRIDO DÍAZ, Luis, LL.D., D.ECON.; Mexican lawyer and educationist; b. 1898; ed. Univ. Nacional Autónoma de México. Lawyer, Prof. Col. de San Nicolás de Hidalgo, Pres. of Supreme Tribunal of Michoacán State and Rector Univ. de Michoacán 1924-28; Prof. Schools of Law and Econs. Univ. Nacional Autónoma de México 1929-, Rector 1948-50; mem. Comm. for drafting new Penal Code; fmr. Head Diplomatic Dept., Ministry of Foreign Affairs; co-founder Mexican Assn. of Univs. and Insts. of Higher Educ.; Hon. Pres. Nat. Acad. of History and Geography; Vice-Pres. Nat. Athenaeum of Science and Art; Pres. Latin American Univ. Union; mem. Exec. Council, Int. Assn. of Univs., Int. Assn. for Penal Law; Treas. Mexican Acad. of Languages; many Mexican and foreign hon. degrees and decorations. *Publications:* Los Apólogos de mi Breviario 1922, El Amor Inglosable (novel) 1926, Meditaciones de un Idealista 1928, La Reforma de Nuestra Constitución Política 1932, El Plan Sexenal ante la Doctrina Administrativa 1933, La Ley Penal Mexicana 1934, La Delincuencia Infantil de México (with J. Angel Ceniceros) 1936, En Torno a la Paradoja (short stories) 1937, La Doctrina Mexicana de Nuestro Derecho Penal 1941, El Valor Doctrinario de la Revolución Mexicana 1946, Notas de un Penalista 1946, El Espíritu de Francia 1946, Ensayos Penales, Discursos y Mensajes. *Address:* Patricio Sanz 725, México D.F., Mexico.

GARRIGUES SÁNCHEZ DIAZ-CAÑABATE, Dr. Antonio, LIC. EN DER.; Spanish lawyer, diplomatist and politician; b. 9 Jan. 1904, Madrid; s. of Joaquín Garrigues and Isabel Díaz-Cañabate; m. Hellen Anne Walker 1944 (deceased); ed. Univ. of Madrid; practised law 1925-31; Dir.-Gen. of Legal Registers 1931; private practice 1931-62; Amb. to U.S.A. 1962-64, to Holy See 1964-73; Minister of Justice 1975-76; Pres. and Dir. of numerous commercial and industrial cos. *Publications:* many books and articles on legal, political, economic and financial topics. *Address:* c/o Ministerio de Justicia, Madrid, Spain.

GARRONE, H.E. Cardinal Gabriel Marie, D.PHIL., D.THEOL.; French ecclesiastic; b. 12 Oct. 1901, Aix-les-Bains, Savoie; s. of Jean Garrone and Joséphine Mathieu; ed. Inst. Notre-Dame de la Villette, Univ. de Grenoble and Pontificia Universitas Gregoriana, Rome. Prof., Grand Seminary, Chambéry 1945; Archbishop Coadjutor, Toulouse 1947; Archbishop, Toulouse and Narbonne, Primate of Narbonne 1956-66; Vice-Pres. Perm. Council of Plenary Ass. of French episcopate 1964-66; Pro-Prefect, Congregation of Seminaries and of Univs., Rome 1966-67; Prefect, Congregation for Catholic Educ. 1967-; cr. Cardinal by Pope Paul VI 1967; Grand Croix

Légion d'honneur, Croix de guerre (1939-45). *Publications:* Psaumes et prières, Invitation à la prière, Leçons sur la foi, La morale du Credo, La porte des écritures, Panorama du Credo, Sainte Eglise notre Mère, Morale chrétienne et valeurs humaines, Que faut-il croire?, La religieuse présente à Dieu et au monde, Seigneur, dis-moi ton nom, Le Concile, orientations, Qu'est-ce que Dieu?, Ce que croyait Thérèse de Lisieux, Religieuse aujourd'hui? Oui mais . . ., L'Eucharistie au secours de la foi, Voilà ta mère, L'action catholique, Foi et pédagogie, L'Eucharistie, Pourquoi prier?, La religieuse, signe de Dieu dans le Monde, Les Psaumes, prière pour aujourd'hui, La profession de Foi de Paul VI, Ce que croyait Pascal, Le goût de pain, Les écrits spirituels du Cardinal Saliège, Présentation de "Gaudium et spes", Le secret d'une vie engagée: Mgr. Guerry, L'Eglise: 1965-72, Que faut-il faire?, La foi en 1973, Pour vous, qui suis-je?, La foi au fil des jours, Le Credo lu dans l'historie, Aller . . . jusqu'à Dieu, Prêtre, Ce que croyait Jeanne Jugan, Notre foi tout entière, Marie hier et aujourd'hui, Prédication et Eucharistie. *Address:* Largo del Colonnato 3, 00193 Rome, Italy. *Telephone:* 698-39-56.

GARVEY, Sir Terence (Willcocks), K.C.M.G.; British diplomatist; b. 7 Dec. 1915, Dublin; s. of Francis Willcocks Garvey and Ethel Margaret Ray; m. 1st Barbara Tomlinson; m. 2nd Rosemary O'Neill; two s. one d.; ed. Felsted School and Univ. Coll., Oxford; entered Foreign Service 1938, served U.S.A., Chile, Germany, Egypt, Yugoslavia; Chargé d'affaires in China 1962-65; Amb. to Mongolia 1963-65; Asst. Under-Sec. of State, Foreign Office 1965-68; Amb. to Yugoslavia 1968-71; High Commr. to India 1971-73; Amb. to U.S.S.R. 1973-75. *Publications:* Bones of Contention: An Enquiry into East-West Relations 1978. *Leisure interest:* fishing. *Address:* 11-A Stonefield Street, London, N1 0HW, England.

GARVIN, Clifton C., Jr.; American business executive; b. 22 Dec. 1921; m. Thelma Volland 1943; one s. three d.; ed. Virginia Polytechnical Inst. Army service until 1947; joined Exxon 1947, Process Engineer, Baton Rouge Refinery, Man. Product Supply and Distribution Exxon Co. U.S.A. (fmrly. Humble Oil & Refinery Co.) 1961, Vice-Pres. Exxon Co. U.S.A. Cen. Region 1963, Pres. Exxon Chemical Co., Exec. Vice-Pres., Dir. Exxon Corpn. 1968, Pres. 1972-75, Chair. of Board, Chief Exec. Officer 1975-; Dir. American Petroleum Inst., Citibank, N.A. (fmrly. First Nat. City Bank), Citicorp, PepsiCo, Sperry Rand Corpn.; Chair. Council for Financial Aid to Educ.; co-Chair. The Business Roundtable; Vice-Chair. The Business Council; mem. Board Sloan-Kettering Inst. for Cancer Research; mem. American Chemical Soc., American Inst. of Chemical Engs., Nat. Petroleum Council; Trustee, Joint Council on Econ. Educ., Cttee. for Econ. Devt., Vanderbilt Univ., The Conference Board. *Leisure interest:* golf. *Address:* Exxon Corporation, 1251 Avenue of the Americas, New York, N.Y. 10020, U.S.A.

GARWIN, Richard L., M.S., PH.D.; American physicist; b. 19 April 1928, Cleveland, Ohio; s. of Robert and Leona S. Garwin; m. Lois E. Levy 1947; two s. one d.; ed. public schools in Cleveland, Case Western Reserve Univ. and Univ. of Chicago. Instructor and Asst. Prof. of Physics, Univ. of Chicago 1949-52; mem. staff, IBM Watson Lab., Columbia Univ. 1952-65, 1966-70; Adjunct Prof. of Physics, Columbia Univ. 1957-; Dir. of Applied Research, IBM T. J. Watson Research Center 1965-66, IBM Fellow 1967-; mem. Defense Science Board 1966-69; mem. President's Science Advisory Cttee. 1962-66, 1969-72; mem. IBM Corporate Technical Cttee. 1970-71; Prof. of Public Policy, Kennedy School of Govt., Harvard 1979-; mem. Council on Foreign Relations; mem. Nat. Acad. of Sciences, Inst. of Medicine 1975-, Nat. Acad. of Eng. 1978-; Fellow, American Physical Soc. American Acad. of Arts and Sciences; Ford Foundation Fellow, CERN, Geneva 1959-60; Hon Dr. (Case Western Reserve Univ.) 1966. *Publications:* Co-Author: Nuclear Power Issues and Choices 1977, Nuclear Weapons and World Politics 1977; about 100 published papers and 26 U.S. patents. *Leisure interests:* skiing, military technology, arms control, social use of technology. *Address:* IBM Corporation, Research Division, Thomas J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York, N.Y. 10598, U.S.A. *Telephone:* 914-945-2555.

GARY, Romain; French writer and fmr. diplomatist; b. 8 May 1914, Wilno, Russia; s. of Lejba Kacew and Mina Josel; m. 1st Lesley Blanch; m. 2nd Jean Seberg 1963 (divorced), one s.; ed. Lycée de Nice and Paris Univ.; served as pilot with Free French Air Force squadron "Lorraine" in Africa, Palestine and Russia 1940-45; attached to Foreign Ministry 1945-56; Consul-Gen. in Los Angeles (U.S.) 1956-60; attached to Ministry of Information 1967-68; Officier de la Légion d'honneur, Compagnon de la Libération, Croix de guerre; Prix des Critiques 1945, Prix Goncourt 1956. *Publications:* many works including Education européenne 1943, Tulipe 1946, Le grand vestiaire 1949, Les couleurs du jour 1952, Les racines du ciel (Prix Goncourt 1956), Promesses de l'aube 1959, Madame L 1959, The Ski Bum 1965, Frère Océan 1965, Pour Sganarelle 1965, La danse de Gengis Cohn 1967, La tête coupable 1968, Le mangeur d'étoiles, Adieu, Gary Cooper 1969, Chien blanc 1970, Les enchanteurs 1973, The Gasp 1973, La nuit sera calme, Les têtes de Stéphanie 1974, Au-delà de cette limite votre ticket n'est plus valable 1975, Charge d'âme 1978; Direct Flight to Allah 1975 (under pseudonym René Deville); for the theatre: Johnie Coeur, Gloire à nos illustres pionniers; directed film, Les oiseaux vont mourir au Pérou 1968. *Address:* c/o Editions Gallimard, 5 rue Sébastien-Bottin, Paris 7e; 108 rue du Bac, Paris 7e, France.

GASCAR, Pierre; French writer; b. 13 March 1916, Paris; m. 2nd Alice Simon 1958; two s. (of first marriage). Army service in France and Scotland 1939-40; captured, twice escaped, recaptured and sent to Rawa-Ruska concentration camp (Ukraine); fmr. journalist, journeys in Europe, China, S.E. Asia, America and Africa; Prix des Critiques, Prix Goncourt 1953, Grand Prix de Littérature (Acad. Française) 1969. *Publications:* Les meubles 1949, Les bêtes, Le temps des morts 1953, Les femmes 1955, La graine, Chine ouverte 1956, L'herbe des rues, Voyage chez les vivants 1958, La barre de corail, Soleils, Les pas perdus 1959, Le fugitif 1961, Vertiges du présent, Les moutons de feu 1963, Le meilleur de la vie 1964, Les charmes 1965, Auto 1968, Les chimères 1969, L'arche 1971, Le présage 1973, L'homme et l'animal 1974 Les sources 1975, Le bal des ardents 1977. *Leisure interest:* travel. *Address:* 13 boulevard du Montparnasse, 75006 Paris, France.

GASKILL, William; British theatre and opera director; b. 24 June 1930; ed. Salt High School, Shipley, and Hertford Coll., Oxford. Dir., Granada Television 1956-67; Asst. Artistic Dir. Royal Court Theatre, London 1958-60; Dir. Royal Shakespeare Co. 1961-62; Assoc. Dir. Nat. Theatre, London 1963-65; Artistic Dir. English Stage Co., Royal Court Theatre 1965-72; Dir. Joint Stock Theatre Group 1974-. Stage productions include: (Royal Court Theatre) Epitaph for George Dillon, One Way Pendulum, Saved, Early Morning, Man is Man, Lear, Big Wolf, The Sea; (National Theatre) The Recruiting Officer, Mother Courage, Philoctetes, Armstrong's Last Goodnight, The Beaux Stratagem, The Madras House; (Royal Shakespeare Co.) The Caucasian Chalk Circle, Richard III, Cymbeline; (Joint Stock) The Speakers, Fanshen, Yesterday's News, A Mad World, My Masters; other productions include Baal, Snap, Love's Labours Lost, King Oedipus and Oedipus at Colonnus (Dubrovnik Festival), The Barber of Seville, and La Bohème (Welsh Nat. Opera). *Address:* 124A Leighton Road, London, N.W.5, England.

GÁSPÁR, Sándor; Hungarian politician; b. 15 April 1917, Pánd. Motor mechanic; mem. CP 1936-, several posts in CP 1945-; fmrly. high posts in Iron and Metal Workers' Trade Union; Asst. Gen. Sec. Cen. Council of Trade Unions 1952, Gen. Sec. 1956-59, 1965–; First Sec. Budapest Cttee. of Hungarian Socialist Workers' Party 1959-60, 1962-65; mem. Cen. Cttee. Hungarian Socialist Workers' Party 1958-, Sec. 1961, mem. Political Cttee. 1959-; Deputy Pres. Hungarian Presidential Council 1963-; Pres. WFTU 1978-; Hungarian Order of Merit, Order of the October Revolution (U.S.S.R.). *Leisure interests:* wild-game shooting, angling. *Address:* Central Council of Trade Unions, H-1415 Budapest VI, Dózsa Gy. ut 84/b, Hungary.

GASPARD, Roger Germain Charles; French business executive; b. 27 April 1902, Brest; m. Suzanne Guichemerre 1935; ed. Lycée Henri-IV, Paris and Ecole Polytechnique. Dir.-Gen. Electricité de France 1946-62, Pres. 1962-63, Hon. Pres. 1964-; Vice-Pres. Compagnie Nat. du Rhône 1946-62; Vice-Pres. Conseil Général des Ponts et Chaussées 1963, Assoc. Partner Schneider S.A. 1963, Vice-Pres. 1964, Pres., Dir.-Gen. 1966-69; Pres., Dir.-Gen. Forges et Ateliers du Creusot (Usines Schneider) 1964-69; Dir. CGEE Alsthom 1970; Pres., Dir.-Gen. Brévatome 1971; Pres. French Cttee. World Energy Conf. 1970-74, Int. Exec. Council, World Energy Conf. 1973-76; Dir. Crédit Lyonnais 1966-73, Soc. minière et métallurgique de Penarroya 1968-73; Pres. Ligue Nat. française contre le cancer 1972-; Grand Officier de la Légion d'honneur, Médaille de la Résistance. *Address:* 10 boulevard de Port Royal, 75005 Paris, France. *Telephone:* 707-23-65.

GASS, Sir Michael David Irving, K.C.M.G., M.A.; British overseas administrator (rtd.); b. 24 April 1916, Wareham, Dorset; s. of George I. Gass and Norah E. Mustard; m. Elizabeth Periam Acland-Hood 1975; ed. King's School, Bruton, Christ Church, Oxford and Queens' Coll., Cambridge; apptd. to Colonial Admin. Service, Gold Coast 1939; war service 1939-45; Dist. Commr., Gold Coast 1945; Asst. Regional Officer, Ashanti 1953; Perm. Sec., Ministry of Interior, Ghana 1956; Chief Sec. to Western Pacific High Comm. 1958; Colonial Sec. Hong Kong 1965; High Commr. for Western Pacific

1969-73; mem. Somerset County Council 1977-. *Leisure interest:* ornithology. *Address:* Fairfield, Stogursey, Bridgwater, Somerset, TA5 1PU, England. *Telephone:* Nether Stowey 732251.

GASSMAN, Vittorio; Italian actor and director; b. 1 Sept. 1922; ed. Law Univ. of Rome and Dramatic Acad. of Rome. *Plays acted in include:* Hamlet, Othello, As You Like It, Troilus and Cressida, Oedipus Rex, Prometheus Bound, Ghosts, Peer Gynt, Orestes, Rosencrantz and Guildenstern are Dead, Richard III, etc.; has directed his own group since 1951; *Films acted in include:* Bitter Rice, Anna, Rhapsody, War and Peace, the Miracle, I Soliti Ignoti, etc.; Dir. Kean 1956 and The Great War, Venice Festival winner; Dir. musical- play Irma la Douce; four awards for the best Italian theatre actor of the year, four for the best film actor; created Teatro Popolare Italiano (mobile theatre, 3,000 seats); dir. and played Agamemnon in production of Aeschylus' Oresteia, Syracuse 1960. *Address:* Piazza S. Alessio 32, Rome, Italy.

GASTAMBIDE, Raymond, L. EN D., DIP.SC.POL; French diplomatist (retd.); b. 10 Dec. 1910; s. of Maurice Gastambide and Marthe Kullmann; m. Marie-José Dugueyt 1968; one s. two d. (previous marriage); ed. Ecole des Roches, Verneuil sur Avre. Embassy Attaché, Vienna 1937, Berne 1938, Barcelona 1940-42; with Govt. of Algiers Nov. 1942, until recalled by Vichy Mar. 1943; Résidence Générale, Rabat, Morocco 1943-47; Consul-Gen., San Sebastian 1947-50; attached to UN Headquarters 1950-55; mem. of French Del. UN Gen. Assembly 1951 and 1952; Head of Dept. of UNHCR 1955-58; Political Attaché French Del. to UN 1958; Sec.-Gen. of French Del. UN Gen. Assembly 1959-60; Head of the Disarmament Service 1963; Amb. to Hungary 1965-71, to Sweden 1972-75; Officier Légion d'honneur, Commdr. Ordre du Mérite, Ordre de Léopold (Belgium). *Leisure interests:* tennis, swimming.

GASTAUT, Henri Jean; French biologist; b. 5 April 1915, Monaco; s. of Jean-Baptiste Gastaut and Marie-Louise Monceau; m. Yvette Reynaud 1935; two s. one d.; ed. Monaco and Nice Lycées, Marseilles Univ. Head, Nervous Anatomy Lab. 1939, Nervous Diseases Clinic 1944, Tit. Prof. Pathological Anatomy 1952-, Marseilles Univ. Medical Faculty; Head, Marseilles Hospitals Neurobiological Lab. 1953-, Marseilles region Centre for Epileptic Children 1960-; Dir. Neurobiological Research Unit, Inst. Nat. de la Santé, Marseilles 1961-; Marseilles Hospitals Biologist 1963-; Dir. Medical Tropical Inst., Dean of the Medical Faculty, Marseilles 1967; Rector Acad. of Aix-Marseilles 1970, Titular Prof. Clinical Neurophysiology 1972-; Sec., later Pres., Int. Fed. of Socs. for Electroencephalography and Clinical Neurophysiology, Int. League against Epilepsy; Hon. mem. or Corresp. Soc. de Neurologie Française, American Acad. of Neurology, Royal Medico-Psychological Assen. (U.K.), Royal Soc. of Medicine (U.K.), etc.; Dr. h.c. (Ottawa, Liège, Bologna); Prix Monthyon (French Acad. des Sciences) 1957; Officer Légion d'honneur, Commdr. Ordre national du Mérite, Ordre des Palmes académiques, Officier Saint Charles de Monaco, Commandeur Ordre National, Ivory Coast. *Publications:* books and monographs on applied neurophysiology. *Leisure interest:* collection of ethnographical art. *Address:* 87 boulevard Périer, Marseilles 8, France. *Telephone:* 33-44-82.

GAT, Dr. Joel R., M.SC., PH.D.; Israeli professor of isotope research; b. 17 Feb. 1926, Munich, Germany; m.; two c.; ed. Hebrew Univ., Jerusalem. Dept. of Physical Chem., Hebrew Univ. 1949-50; Ministry of Defence Labs., Jerusalem 1950-52; Israel Atomic Energy Comm., Rehovot 1952-59; Fellow, ISNSE, Argonne Nat. Labs. and Enrico Fermi Inst., Univ. of Chicago, Ill. 1955-56; Fellow, Scripps Inst. of Oceanography, Univ. of Calif. San Diego at La Jolla 1964-65; Acting Head, later Head, Isotopes Dept., Weizmann Inst. of Science 1966-70, 1974; Prof. Isotope Research 1971-; Deputy Chair. Scientific Council 1972-; Walter P. Reuther Chair in the Peaceful Uses of Atomic Energy 1968. *Address:* The Weizmann Institute of Science, P.O. Box 26, Rehovot, Israel.

GATES, Marshall De Motte, Jr.; American professor of chemistry; b. 25 Sept. 1915, Boyne City, Mich.; s. of Marshall D. Gates and Virginia Orton Gates; m. Martha L. Meyer 1941; two s. two d.; ed. Rice and Harvard Univs. Asst. Prof. of Chem., Bryn Mawr Coll. 1941-46, Assoc. Prof. 1947-49; Tech. Aide, Nat. Defense Research Council 1943-46; Lecturer in Chem., Univ. of Rochester 1949-52, part-time Prof. 1952-60, Prof. 1960-68, Charles Houghton Prof. of Chem. 1968-; mem. Cttee. on Drugs Addiction and Narcotics, Div. of Medical Sciences, Nat. Research Council 1956-69; mem. Nat. Acad. of Sciences, American Chem. Soc.; Fellow, American Acad. of Arts and Sciences, New York Acad. of Sciences; Asst. Editor Journal of American Chemical Society 1949-62, Editor 1963-69; Max Tishler Lecturer, Harvard 1953, Welch Foundation Lecturer 1960; mem. President's Cttee. on Nat. Medal of Science 1968-70, Advisory Board, Chem. Abstract Services 1974-76; E. P. Curtis Award 1960. *Leisure interests:* skiing, sailing. *Address:* Department of Chemistry, University of Rochester, Rochester, N.Y. 14627 (Office); 41 West Brook Road, Pittsford, New York, U.S.A. (Home).

GATES, Thomas Sovereign, Jr.; American business executive and politician; b. 10 April 1906; ed. Univ. of Pennsylvania; associated with Drexel and Co. 1928-, partner 1940-53; Naval Reserve Officer 1942-45; Under-Sec. for Navy 1954-57; Sec. for Navy 1957-59; Sec. of Defense 1959-61; Chair. Exec. Cttee. Morgan Guaranty Trust 1961-62, Pres. 1962-65, Chair, 1965-68, Dir. 1971-; Head U.S. Liaison Office, Peking 1976-77; Dir. Bethlehem Steel Corpn. 1970–, Campbell Soup Co., Cities Service Co., Gen. Electric Co., Insurance Co. of North America, Scott Paper Co. and Smith Kline & French Laboratories; Trustee, Univ. of Pa. and Acad. of Political Science; Hon. LL.D. (Columbia, Yale, Lehigh, Pa., Rochester), Bronze Star, Yale; Medal of Freedom. *Address:* Mill Race Farm, Devon, Pa. 19333, U.S.A. (Home).

GAUDRY, Roger, D.SC.: Canadian chemist and university administrator; b. 1913, Quebec City; s. of Joseph-Marc Gaudry and Marie-Ange Frenette; m. Madeleine Vallée 1941; two s. three d.; ed. Laval Univ. Rhodes Scholar, Oxford Univ. 1937-39; Lecturer in Organic Chem., Faculty of Medicine, Université Laval 1940, Assoc. Prof. 1945-50, Prof. 1950-54; Guest Speaker at La Sorbonne under the auspices of the Institut Scientifique Franco-Canadien; Asst. Dir. of Research, Research Labs., Ayerst McKenna and Harrison Ltd. 1954, Dir. of Research 1957-65 (and of Ayerst Labs., N.Y.), Vice-Pres. 1963-65; Rector, Université de Montréal 1965-75; Vice-Chair. Science Council of Canada 1966-72, Chair. 1972-75; Chair. Council, UN Univ. 1974-76; Fellow, Royal Soc. of Canada 1954; Pres. Chemical Inst. of Canada 1955-56, Canadian Assen. of Rhodes Scholars 1960-61; mem. Board Société de Chimie Industrielle de France 1960-, Board of Govs. and Exec. Cttee. Université de Montréal 1961-65, Defence Research Board of Canada 1962-68, Board Nat. Research Council of Canada 1963-68, Nat. Cancer Inst. of Canada 1963-, Board Association des Universités Partiellement ou Entièrement de Langue Française 1965-75 (Vice-Pres. 1972-75); mem. Académie du Monde latin 1967, Institut de la Vie, Paris 1968-; Pres. Assen. of Univs. and Colls. of Canada 1969-71; mem. of the Board Int. Assen. of Univs. 1970-, Pres. 1975-; Gen. Trust of Canada 1970-75; mem. Econ. Council of Canada 1970-73; Pres. Conf. of Rectors and Principles of Quebec Univs. 1970-72; Hon. Life mem. Corpn. of Professional Chemists of Quebec 1964, Assen. professionnelle des pharmaciens d'industrie du Québec 1972; Hon. mem. Royal Coll. of Physicians and Surgeons of Canada 1971; and mem. admin. Board of many commercial and philanthropic socs.; Hon. LL.D. (Toronto) 1966, D.Sc. (Royal Mil. Coll. of Kingston) 1966, D.Sc. (Univ. of B.C.) 1967, LL.D. (McGill) 1967, Doctorate (Université de Clermont-Ferrand, France) 1967, ll.D. (St. Thomas Univ., Fredericton, N.B.) 1968, LL.D. (Brock Univ., St. Catherines, Ont.) 1969, LL.D. (Bishop's Univ.) 1969, D.Sc. (Sask., Regina) 1970, (Western Ont.) 1976; Province of Quebec Science Award (three times), Pariseau Medal, Assen. canadienne-française pour l'avancement des sciences 1958, Companion of the Order of Canada 1968. *Publications:* numerous scientific papers on organic and biological chemistry. *Address:* Université de Montréal, 2910 boulevard Edouard-Montpetit, app. 6, CP 6128, Montreal H3C 3J7, Quebec, Canada.

GAUS, Günter; German journalist, diplomatist and politician; b. 23 Nov. 1929, Braunschweig; s. of Willi and Hedwig Gaus; m. Erika Butzengeiger 1955; one d.; ed. Oberrealschule Braunschweig and Munich Univ.; journalist with various daily and weekly newspapers, and Second German TV 1953-65; Programme Dir. Südwestfunk 1965-69; Chief Editor Der Spiegel 1969-73; Sec. of State, Chancellery of Fed. Repub. of Germany, Bonn 1973-; Head of Perm. Representation of Fed. Repub. of Germany, Berlin (G.D.R.) 1974–; Adolf Grimme Prize, Bronze 1964, Silver 1965. *Publications:* Zur Person (two vols.), Bonn ohne Regierung 1965, Gespräch mit Herbert Wehner 1966, Zur Wahl gestellt 1969. *Address:* Ständige Vertretung der Bundesrepublik Deutschland, 104 Berlin, Hannoversche Strasse 30, German Democratic Republic. *Telephone:* 282-5261.

GAUSSEN, Gérard; French diplomatist; b. 17 March 1918, Barcelona, Spain; s. of Edouard and Marthe (née Ferrère) Gaussen; m. Solange Vernes 1946; four s. one d.; ed. ecole Des Roches, Ecole des Sciences Politiques, Paris. Vice-Consul Montevideo 1946, Buenos Aires 1947-48; with Ministère des Affaires Étrangères 1948-50, 1956-60; Consul to Venice 1956-60; at Centre for Int. Affairs, Harvard Univ. 1961-62; First Counsellor, French Embassy, Washington 1964-68; Consul General, Barcelona 1969-73, New York 1973-78; Amb. to Sweden 1978-; Officier Légion d'honneur, Croix de guerre 1939-45, Rosette de la Résistance. *Publications:* De

l'Association de l'Afrique au marché commun 1962. *Leisure interests:* golf, skiing. *Address:* Ambassade de France, 26 Nazvavägen, 11523 Stockholm, Sweden. *Telephone:* 630270.

GAUTIER, Jean-Jacques; French dramatic critic; b. 4 Nov. 1908, Essômes, Aisne; m. Gladys Leigh 1946; ed. Collège de Dieppe, Lycée de Laon, and Univ. of Paris. Journalist L'Echo de Paris 1935; Editorial staff L'Epoque until 1939; Dramatic Critic Figaro 1944-; Sec.-Général Comédie Française until 1946; mem. Acad. Française 1972-; Prix Goncourt 1946, Grand Prix de la Nouvelle 1957, Grand Prix Littéraire de Monaco 1970; Commdr. Légion d'honneur, Croix de guerre. *Publications:* Histoire d'un fait divers 1946 (Prix Goncourt), Vous aurez de mes nouvelles 1957 (Grand Prix de la Nouvelle), Si tu ne m'aimes pas je t'aime 1960, C'est pas d'jeu and Deux fauteils d'orchestre 1962, Une femme prisonnière 1968, La chambre du fond 1970, Théâtre d'aujourd'hui 1972, Cher Untel 1974, Je vais tout vous dire ... essai-souvenirs 1976, Arne qui vive 1978 and other novels. *Address:* 25 quai d'Anjou, Paris 4e, France.

GAUVIN, Michel, O.C., C.V.O., D.S.O., B.A.; Canadian diplomatist; b. 7 April 1919, Quebec; s. of Raymond Gauvin and Stella McLean; divorced; two s.; ed. St. Charles Garnier Coll., Laval and Carleton Univs. Amb. to Ethiopia 1966-69, to Portugal 1969-70, to Greece 1970-76; Head of Canadian del. to Int. Comm. for Control and Supervision, Viet-Nam Jan.-Aug. 1973; Canadian Sec. and Co-ordinator of Royal Visit July 1976; Consul-Gen., Strasbourg 1976-78; Amb. to Morocco 1978-. *Publications:* La geste du régiment de la chaudière. *Leisure interests:* golf, sailing, bridge. *Address:* Canadian Embassy, C.P. 709 Rabat-Agdal, Morocco. *Telephone:* 713-75.

GAVAZZENI, Gianandrea; Italian musician and writer; b. 1919, Bergamo; ed. Milan Conservatory (under Renzo Lorenzoni) and under Ildebrando Pizzetti and Mario Pilati; *early compositions include* Concerto bergamasco (for orchestra), Paolo e Virginia (opera, first perf. at Bergamo 1935) and Il furioso nell'isola di San Domingo (ballet, first per. at San Remo 1940); conductor 1940-; associated with La Scala, Milan 1948-, Artistic Dir. 1966-68; has participated in many festivals with La Scala including the Edinburgh Festival 1957, World Fair, Brussels 1957, Expo 1967, Montreal and also at the Bolshoi and Kremlin theatres, Moscow 1964; has directed numerous operatic recordings with La Scala; as a music critic has written studies of Donizetti, Pizzetti, Mascagni, Mussorgsky and guides to the operas of Mozart, Wagner, etc.; other compositions include Il canto di S. Allessandro, Canti d'operai lombardi (for orchestra), three Concerti di Cinquando (for orchestra), violin and 'cello concertos, piano pieces and numerous songs with words by Bacchelli, Cardarelli, Rilke, etc. *Address:* Via Porta Dipinta 5, Bergamo, Italy.

GAVIN, Lieut.-Gen. James M., D.S.O.; American army officer, diplomatist and business executive; b. 22 March 1907, New York, N.Y.; s. of Martin Thomas and Mary (Terrel) Gavin; m. 2nd Jean Emert Duncan 1948; one d. (first marriage), four d. (second marriage); ed. U.S. Military Acad. at West Point; enlisted as Private 1924, Lieut. 1929, Lieut.-Gen. 1944; Commanded 505th Paratroop Combat Team, landing in Sicily and Salerno 1943; Asst. Div. Commdr. 82nd Airborne Div. landing in Normandy 1944, Div. Commdr. 82nd Airborne Div. Landing in Nijmegen 1944; Ardennes 1945; Deputy Chief of Staff for Plans and Research 1955; Chief Research and Devt. 1955-59; Amb. to France 1961-62; Pres. Arthur D. Little, Inc. 1960-61, Chair. of the Board 1964-77, Dir. and Consultant 1977-70; Dir. American Electric Power Co. Inc., John Hancock Life Insurance Co. *Publications:* Airborne Warfare 1947, War and Peace in the Space Age 1958, France and the Civil war in America 1964, Crisis Now 1968, On to Berlin 1978. *Leisure interests:* reading, golf, tennis, painting. *Address:* c/o Arthur D. Little Inc., 25 Acorn Park, Cambridge, Mass. 02140, U.S.A. *Telephone:* 617-864-5770, Ext. 2601 (Office).

GAWRYSIAK, Jerzy; Polish politician; b. 1928, Rybno, near Włocławek; ed. Leningrad Univ.; scientific worker, Poznań Polytechnic till 1958; Sec. Poznań-Wilda Dist. Cttee. of Polish United Workers' Party (PZPR) 1958-61; Deputy Head of Org. Dept., Poznań Voivod Cttee. of PZPR 1961-63, Econ. Sec. 1964-70; Deputy Chair. Praesidium of Poznań Voivod Nat. Council 1963-64; Under-Sec. of State, Ministry of Internal Trade 1971-72; Head of Econ. Dept., Cen. Cttee. of PZPR 1972; First Sec. Rzeszów Voivod Cttee. of PZPR 1972-75; mem. Cen. Cttee. of PZPR 1975-; Minister of Internal Trade and Services 1975-76; called to diplomatic service 1976-, Amb. to G.D.R. 1977-; Knight's and Officer's Cross, Order of Polonia Restituta, Order of Banner of Labour (2nd Class 1974). *Address:* Embassy of Polish People's Republic, Unter den Linden 72, 108 Berlin, German Democratic Republic.

GAXOTTE, Pierre; French writer; b. 19 Nov. 1895, Revigny, Meuse; ed. Ecole Normale Supérieure; taught history 1920-22; Editor-in-chief of Candide 1924-40; now writes for Figaro; mem. Acad. Française 1953-. *Publications:* La révolution française 1928, Le siècle de Louis XV 1933, Frédéric II 1938, La france de Louis XIV 1946, Histoire des français, 2 vols. 1951, Thèmes et variations 1957, Histoire de France 1961, Histoire de L'Allemagne, 2 vols. (Prix des Ambassadeurs 1963) 1963, Aujourd'hui 1965, L'Académie française 1965, Paris au XVIIIe siècle 1968, Mon village et moi 1968, Le nouvel ingénu 1970, Louis XIV 1974, Les autres et moi 1975, Molière 1977. *Address:* 23 rue Froidevaux, Paris 14e, France.

GAY, Geoffrey Charles Lytton, F.R.I.C.S.; British international real estate consultant; b. 14 March 1914; s. of Charles Gay and Ida Lytton; m. Dorothy Ann Rickman 1947; one s. two d.; ed. St. Paul's School; served World War II, Durham Light Infantry B.E.F. 1940, Staff Coll. Camberley and India; Lieut.-Col., Chief of Staff, Sind Dist. 1943; joined Knight Frank and Rutley 1929, Senior Partner 1973-75, Consultant 1975-; Consultant Taylor Woodrow Group 1975-; Gen. Commr. for Inland Revenue 1953-; mem. Westminster City Council 1962-71; World Pres. Int. Real Estate Fed. (FIABCI) 1973-75; mem. St. John Council for London; Gov. Benenden School; Liveryman, Worshipful Co. of Broderers; Chevalier Ordre de l'Économie Nationale 1960, Officer Order of St. John of Jerusalem. *Leisure interests:* photography, painting, music, theatre, fishing. *Address:* The Down Wood, Blandford Forum, Dorset. *Telephone:* 0258-54228.

GAYOOM, Maumoon Abdul, M.A.; Maldivian politician; b. 16 Dec. 1939; ed. Al-Azhar Univ., Cairo, and American Univ. of Cairo. Lecturer in Islamic Studies, Abdullahi Bayero Coll., Ahmadu Bello Univ., Nigeria 1969-71; entered Govt. service, Maldives 1971, Man. Shipping Dept. and later Dir. of Telephone Dept.; Special Under-Sec. in Office of Prime Minister 1974; Deputy Amb. to Sri Lanka 1975; Perm. Rep. to UN 1976-77; attended regular session of Gen. Assembly 1975, Head of Del. to Gen. Assembly 1976; Minister of Transport 1977; Pres. of Repub. of Maldives responsible for Home Affairs, Educ., Prov. Affairs, Public Safety and Agric. 1978–. *Address:* Office of the President, Malé; Maleeaage, Malé, Maldives (Residence).

GAZENKO, Oleg Georgiyevich, PH.D., M.D.; Soviet physiologist; b. 12 Dec. 1918, Nokolayevka, Stavropol territory; m.; one s. one d.; ed. Moscow Medical Inst; service in the Army 1941-46; Research Assoc. Kirov Mil. Medical Acad. 1946-47; U.S.S.R. Acad. of Sciences Inst. of Experimental Medicine 1947-69, Dir. Inst. of Medical and Biological Problems 1969-; mem. CPSU 1953; Corresp. mem. U.S.S.R. Acad. of Sciences 1966, mem. 1976-; mem. Int. Acad. of Astronautics Aerospace Medical Assn.; Order of Lenin, Daniel and Florence Guggenheim Int. Astronautics Award 1975. *Publications:* Works on experimental physiology and space medicine; Co-editor Foundations of Space Biology and Medicine (U.S.A.-U.S.S.R. joint publ.). *Leisure interests:* mountaineering, canoeing. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow V-71, U.S.S.R.

GAZIER, Albert, L. EN D.; French politician; b. 16 May 1908, Valenciennes; m. Marie-Louise Elter 1945; employed by Presses Universitaires de France, Paris; joined Socialist Party; Sec.-Gen. of Chambre des Employés de la Région Parisienne; active in Resistance during Occupation; came to England and later returned to France; mem. of CGT Bureau, CGT Del. to provisional Constituent Assemblies Algiers 1943-44, Paris 1944-45, later Sec. to CGT Bureau; Deputy of Seine; Under-Sec. for Nat. Economy in Gouin Govt.; Under-Sec. for Public Works and Transport in Bidault Govt.; Sec. to Presidency of Council in Blum Govt.; Minister of Information in Pleven and Queuille Govts. 1950-51; Minister of Social Affairs 1956-57; Minister of Information May 1958; Del. Gen. to Groupe des Experts, French Socialist Party 1974. *Address:* 12 avenue du Parc, 92 Vanves, France. *Telephone:* 642-23-08.

GAZIT, Maj.-Gen. Shlomo; Israeli army officer; b. 1926, Turkey; m.; three c.; ed. Tel Aviv Univ.; joined Palmach 1944, Co. Commdr. Harel Brigade 1948; Dir. Office of Deputy Chief of Staff; Dir. Office of Chief of Staff 1953; Liaison Officer with French Army Del., Sinai Campaign 1956; Instructor Israel Defence Forces Staff and Command Coll. 1958-59; Gen. Staff 1960-61; Deputy Commdr. Golani Brigade 1962; Instructor Nat. Defence Coll.; with Intelligence Branch, IDF 1964-67; Dir. Dept. of Mil. Govt., Gen. Staff and Co-ordinator of Activities in Administered Areas, Ministry of Defence 1967-74; rank of Maj-Gen. 1973; Head of Mil. Intelligence 1973-79. *Address:* Military Intelligence Headquarters, Israel Defence Forces, Tel Aviv, Israel.

GAZZAR, Abdel Hadi el; Egyptian artist; b. 1925; ed. Cairo and Rome Acad. of Fine Arts. Prof. of Painting, Cairo Faculty of Fine Arts; rep. at numerous exhbns., including the 28th and 30th Venice

Biennale, Brussels Int. Exhbn. 1958 and São Paulo Bienal 1961; exhbns. in Cairo, Alexandria and Rome; First Prize "10 Years of the Revolution" Exhbn. 1962. *Address:* Faculty of Fine Arts, Cairo University, Cairo, Egypt.

GBUJAMA, Shirley Yema; Sierra Leonean diplomatist; b. 20 Sept. 1936, Medina-Sebureh, Bonthe District; m.; three c.; ed. Harford Secondary School for Girls, Fourah Bay Coll., New York State Univ. and New York Univ. School of Educ. Math. Teacher, Harford Secondary School for Girls; various posts in Research Dept. of Bank of Sierra Leone 1966-72; attended courses at U.S. Fed. Reserve Board, two banks in U.S. Fed. Reserve System, also at IMF Inst.; fmr. Amb. to Ethiopia; fmr. High Commr. in Tanzania and Zambia; rep. to OAU 1972-76; mem. Del. to UN Gen. Assembly 1974, to all OAU Confs. 1972-76; Amb. to UN 1976-78. *Address:* c/o Ministry of Foreign Affairs, Freetown, Sierra Leone.

GEDDA, Nicolai; Swedish operatic tenor; b. 11 July 1925; ed. Musical Acad., Stockholm. Debut, Stockholm 1952; Concert appearances Rome 1952, Paris 1953, 1955, Vienna 1955, Aix-en-Provence 1954, 1955; first operatic performances in Munich, lucerne, Milan and Rome 1953, Paris, London and Vienna 1954; Salzburg Festival 1957-59, Edinburgh Festival 1958-59; with Metropolitan Opera, N.Y. 1957-; world-wide appearances in opera, concerts and recitals; numerous recordings. *Address:* c/o Lies Askonas, 19A Air Street, London, W.1. England. *Telephone:* 01-734 5459.

GEDDES, Sir (Anthony) Reay (Mackay), K.B.E.; British business executive; b. 7 May 1912; ed. Rugby and Cambridge Univ. Chair. Dunlop Holdings Ltd. 1968-78, Hon. Pres. 1978-; Dir Shell Transport & Trading Co. Ltd. 1968-, Midland Bank Ltd. 1967- (Deputy Chair. 1978-), Rank Org. 1975-, Adela Investment Co. S.A. 1976-; Chair. Shipbuilding Inquiry Cttee. 1965-66, British Nat. Cttee. of Int. Chamber of Commerce 1974-78; mem. Int. Advisory Cttee., Chase Manhattan Bank 1974-. *Address:* Dunlop House, 25 Ryder Street, St. James's, London, S.W.1, England.

GEDDES, Ford Irvine, M.B.E.; British business executive (retd.); b. 17 Jan. 1913; s. of I. C. Geddes; m. Barbara Gertrude Parry-Okeden 1945; one s. four d.; ed. Loretto School and Gonville and Caius Coll., Cambridge. Anderson Green and Co. Ltd., London 1934, Dir. 1947-68; Army Service 1939-45; Man. Dir. P. & O. Steam Navigation Co. 1963-72, Deputy Chair. 1968-71, Chair. 1971-72; Dir. Equitable Life Assurance Soc. 1955-76, Pres. 1963-71; Dir. Bank of New South Wales (London Advisory Board) 1950-; Dir. British United Turkeys Ltd. 1962-68, Chair. 1976-78; Chair. Technical Cttee., Chamber of Shipping of U.K. 1960-65, British Shipping Fed. 1965-68, Container Fleets Ltd. 1967-71; Pres. Int. shipping Fed. 1967-69. *Address:* The Manor, Berwick St. John, Shaftesbury, Dorset SP7 0EX, England.

GEDDES OF EPSOM, Baron (Life Peer), cr. 1958, of Epsom; **Charles John Geddes,** C.B.E.; British trade unionist; b. 1 March 1897; ed. Blackheath School; mem. Exec. Council Union of Post Office Workers 1928, Asst. Gen. Sec. 1941, Gen. Sec. 1945-57; Chair. Post Office Departmental Whitley Council, Staff Side; mem. Civil Service Nat. Whitley Council; mem. Gen. Council Trades Union Congress 1946-58, Chair. 1954-55; mem. Exec. Board ICFTU; Pres. European Regional Org. of ICFTU; Pres. Postal, Telegraph and Telephone Int. 1956-58; Chair. Polyglass Group Cos.; Dir. Telesign Ltd.; mem. Royal Inst. Int. Affairs; mem. Labour Party. *Address:* 28 Parkhill Court, Addiscombe Road, Croydon, CR0 5PJ, England. *Telephone:* 01-681 1188.

GEGESI KISS, Pál, M.D.; Hungarian paediatrician; b. 11 Feb. 1900, Nagyszöllös; s. of Ernö Gegesi Kiss and Mariska Nagy; m. Anna Vadnay 1947; two s. three d. two adopted s. Rector of Budapest Medical Univ. 1955-61; Dir. Budapest Clinic of Paediatrics No. 1 1946-71, Prof. Emer. 1971-; mem. Hungarian Acad. of Sciences; Pres. Hungarian Nat. Red Cross; Hon. mem. Soviet Soc. of Paediatrics 1957, Purkyné Medical Soc. of Czechoslovakia 1963; Kossuth Prize 1957; Order of Labour Gold Medal, Liberation Medal, Order of the Red Banner, Gold Medal, Hungarian Acad. of Sciences. *Publications:* Diabetes Mellitus in Newborns and Infants 1956, 1966; (co-author) Cardiac and Circulatory Diseases in Infancy and Childhood 1953, 1960, Disease and Medical Treatment 1965, Personality Disorders in Childhood 1965, Bases of Clinical Psychology 1968, Psychopathology in Childhood 1972. *Leisure interest:* fine arts. *Address:* No. 1 Clinic of Paediatrics, Semmelweis University Medical School, Bókay János-u. 53, H-1083 Budapest VIII, Hungary. *Telephone:* 343-186.

GEGHMAN, Yahya Hamoud; Yemeni diplomatist; b. 24 Sept. 1934; ed. Law Schools, Cairo, Paris, Damascus and Boston and Columbia Univs. Teacher of Arabic Language and Literature, Kuwait 1957-59; Dir.-Gen. Yemen Broadcasting System, Special Adviser, Ministry of Foreign Affairs 1962-63; Deputy Perm. Rep. to UN 1963-66, 1967-68; Minister Plenipotentiary, Yemen Arab Repub. (Y.A.R.) Embassy to U.S.A. 1963-67; Minister of Foreign Affairs 1968-69; Minister of State, Personal Rep. of the Pres. 1969; Deputy Prime Minister 1969-71; Perm. Rep. to UN 1971-73; Amb. to U.S.A. 1973-74; Pres. Supreme Council for Youth's Welfare and Sport 1970; Gov. for Y.A.R., IBRD, IMF 1970-71; mem. of Del. to Conf. of Arab Heads of Govts. 1965, 1969, to U.S.S.R. 1968, to UN Gen. Assembly 1962-; has represented Y.A.R. at many int. functions. *Publications:* articles on politics, economics and literature in various Arabic journals. *Address:* c/o Ministry of Foreign Affairs, Sana'a, Yemen Arab Republic.

GEHLHOFF, Walter, M.D.; German diplomatist; b. 6 May 1922, Berlin; s. of Kurt Gehlhoff and Elsbeth Legies; m. Dr. Eva Biegel 1949; one s. two d.; held several diplomatic posts in Bonn 1951-53, 1958-60, Cairo 1953-56, Beirut 1956-58, Teheran 1960-66; Dir. Middle East Affairs Desk, Foreign Office, Bonn 1966; Deputy Asst. Sec. of State for Political Affairs 1969, Acting Asst. Sec. of State 1970; Amb. and Perm. Observer of Fed. Repub. of Germany to UN 1971-73, Amb. and Perm. Rep. 1973-74; State Sec., Foreign Office, Bonn 1974-77; Amb. to the Holy See. 1977-. *Leisure interests:* ornithology; astronomy. *Address:* I 00197 Rome, Via Giuseppe Mangili 9, Italy. *Telephone:* (06) 879779.

GEIJER, (Johan) Lennart; Swedish lawyer and politician; b. Sept. 1909, Ystad; m. Ninnie Löfgren 1944; two s. two d.; ed. Univs. of Lund and Stockholm. Sec. and legal adviser, Swedish Union of Clerical and Tech. Employees in Industry 1939-57, Cen. Org. of Salaried Employees in Sweden 1957-66; mem. Consultative Assembly, Council of Europe 1964-66; mem. Riksdag (Parl.) 1962-76; Minister without Portfolio 1966-69, Minister of Justice 1969-76. *Publications:* Employer and Employees ■ Judges in the Labour Court 1958. *Address:* Armsfeltsgatan 18, 11534 Stockholm, Sweden.

GEILL, Torben, M.D.; Danish physician; b. 14 Aug. 1896, Aarhus; s. of Christian Geill and Julie Malmberg; m. Luise Christine Haberda 1926; one s.; ed. Københavns Universitet. Medical Asst., Univ. Medical Clinic, Copenhagen 1926-28; Medical Asst., Bispebjerg Hospital, Copenhagen 1930-36; Medical Dir. De Gamles By (Geriatric Unit), Copenhagen 1936-66; mem. State Disablement Court 1943-; Pres. Danish Gerontological Soc. 1950-62, Int. Asscn. of Gerontology 1963-66; Hon. mem. Italian Gerontological Soc., Argentine Gerontological Soc., Danish Gerontological Soc.; Knight Order of Dannebrog, 1st degree. *Publications:* Studies on Albumin and Globulin in Serum and Urine 1928, Textbook on Geriatrics (with S. Eckerstrom), Alderdomsproblemer (Problems of Ageing), numerous papers ■ internal medicine, geriatrics, history of medicine and philately. *Leisure interests:* literature, music, paintings and engravings, archaeology, history of medicine, genealogy, philately. *Address:* 18 Barsehøj, Copenhagen-Hellerup, Denmark. *Telephone:* 652717.

GEISEL, Gen. Ernesto; Brazilian army officer, business executive and politician; b. 3 Aug. 1907, Bento Goncalves, Rio Grande do Sul; s. of Augusto Geisel; brother of Orlando Geisel (q.v.); m. Amália Markus Geisel; one d.; ed. Military Colleges at Realengo, Armas, Estado Major e Superior de Guerra and Army Staff Coll., U.S.A.; served in various army units; numerous appts. included: chief artillery instructor, mil. coll.; Mil. Attaché, Brazilian Embassy, Uruguay; mem. perm. staff, Escola Superior de Guerra; Deputy Chief Mil. Cabinet of the Presidency 1955, Chief 1964-67; Sec.-Gen. Council for Nat. Security; Sec. of Public Works for State of Paraíba; Supt. of Pres. Bernardes Refinery 1955; mem. Nat. Petroleum Council 1957-58, 1959-61; Minister, Supreme Mil. Court 1967-69; Pres. of Petrobrás 1969-73; Pres. candidate, ARENA Party 1973; Pres. of Brazil 1974-79; numerous decorations. *Address:* c/o Palácio do Planalto, Brasília, D.F., Brazil.

GEISEL, Orlando; Brazilian army officer and politician; b. 5 Sept. 1905, Rio Grande do Sul; s. of Augusto Geisel; brother of Gen. Ernesto Geisel (q.v.); ed. Colégio Militar de Porto Alegre, Escola Militar do Realengo. Capt. 1930, Commdr. 1932; Mil. Attaché, U.S.A. 1950; Commdr. 3rd Army 1966; Chief of Staff, Army 1966; Chief of Staff of the Armed Forces 1969-74; Minister of the Army 1969-74. *Address:* c/o Ministério de Exército, Esplanado dos Ministérios, Bloco 2, Brasília, D.F., Brazil.

GELB, Ignace Jay, PH.D.; American university professor; b. 14 Oct. 1907; ed. Univ. of Rome. Travelling Fellow, later Instructor, Univ. of Chicago 1929-41, Asst. Prof. 1941-43, Assoc. Prof. 1943, 1946-47, Prof. of Assyriology 1947-65, Frank P. Hixon Distinguished Service Prof. 1965-; U.S. Army 1943-45; Guggenheim Fellow 1960-61; Colvin Research Prof. 1962-63; Editor Chicago Assyrian Dictionary 1947-; mem. American Phil. Soc.; Hon. mem. Société Asiatique, Paris, Societas Orientalis Fennica, Helsinki, Indian Oriental

Soc., Hyderabad; Foreign mem. Accad. Nazionale dei Lincei, Rome; Fellow of the American Academy of Arts and Sciences; Pres. American Name Soc. 1963-; fmr. Pres. American Oriental Soc. *Publications:* Hittite Hieroglyphs I-III 1931-42, Inscriptions from Alishar 1935, Hittite Hieroglyphic Monuments 1939, Hurrians and Subarians 1944, A Study of Writing 1952, Sargonic Texts from the Diyala Region 1952, Old Akkadian Writing and Grammar 1952, Glossary of Old Akkadian 1957, Sequential Reconstruction of Photo-Akkadian 1969. *Address:* Oriental Institute, University of Chicago, Chicago, Ill. 60637; and 5454 Woodlawn Avenue, Chicago, Ill., U.S.A.

GELFAND, Israil Moiseevich, D.SC.; Russian mathematician and biologist; b. 2 Sept. 1913, Krasnye Okny; m. Zorya Yakovlevna Shapiro 1942; two s.; ed. Moscow State Univ. Asst. Professor, Dept. of Mathematics, Moscow State Univ. 1935-40, Prof. 1940-; Head of Laboratory of Mathematical Methods in Biology, Moscow State Univ., mem. of Royal Soc., American Nat. Acad. of Sciences, l'Academie des Sciences Francaise, Royal Swedish Acad. of Sciences, Royal Irish Soc., American Acad. of Arts and Sciences; Hon. mem., Moscow Mathematical Soc., London Mathematical Soc.; Dr. h.c. (Univs. of Oxford, Harvard, Uppsala, and Paris); Wolf Prize in Mathematics 1978. *Publications:* numerous works including Unitary Representations of Classical Groups 1950, Generalized Functions Vols. I-VI 1958-66, Normed Rings 1960, Automorphic Functions and the Theory of Representations 1962, Cohomology of Infinite Dimensional Lie Algebras and Some Questions of Integral Homology 1970, Representations of the Group SL 2R, Where R is a Ring of Functions 1973, Mechanisms of Morphogenesis in Cell Structures 1977. *Address:* Laboratory of Mathematical Methods in Biology, Moscow State University, Moscow 117234, U.S.S.R.

GÉLIN, Daniel Yves; French actor; b. 19 May 1921; ed. Lycée de St. Malo, Paris Conservatoire; mem. Théâtre Nat. Populaire Company 1960-; *films include:* La ronde, Dieu a besoin des hommes, Les mains sales, Paris-Canaille, Les amants du Tage, En effeuillant la Marguerite, Mort en fraude, Charmants garçons, Suivez-moi jeune homme, Ce corps tant désiré, Austerlitz, Monsieur Masure, La morte saison des amours, La proie pour l'ombre, Le Testament d'Orphée, Carthage en flammes, Peur panique, Le jour le plus long, Règlements de compte, La bonne soupe, Vacances portugaises, Le soleil noir 1966, Duel à la vodka 1967, Le mois le plus beau 1968, Slogan, Hallucinations sadiques, Détruite dit-elle 1969, La servante 1970, Le souffle au coeur 1970, Un linceul n'a pas de poches 1975, Dialogue d'exilés 1975, La police au service du citoyen 1975. *Publications:* poetry: Fatras 1950, Dérives 1965, Poèmes à dire 1970. *Address:* 92 boulevard Murat, 75016 Paris; 28 Boutigny-sur-Opton, France.

GÉLINAS, Gratien, O.C., F.R.S.C.; Canadian actor, playwright and producer; b. 8 Dec. 1909, St.-Tite-de-Champlain, Quebec; m. 1st Simone Lalonde 1935 (died 1967), five s. one d.; m. 2nd Huguette Oligny 1973; ed. Coll. de Montréal, School of Higher Commerical Studies, Montreal; after 2 months in first job with Dupuis Frères (Dept. Store), Montreal, joined La Sauvegarde Insurance Co. as accountant 1929-37; casual radio and stage performances, including creation of character of 'Fridolin' in series of monologues at cabaret Mon Paris, Montreal, culminating in appearance in Télévise-moi-ça, St. Denis Theatre, Montreal 1936; radio debut with 'Fridolin' in Carrousel de la gaîté (later Le train de plaisir) 1937, Fridolinons Revue 1938; left radio for theatre 1941; directed, produced and starred in annual reviews, Montreal and Quebec City 1940-46; leading part in St. Lazare's Pharmacy, Chicago 1945, wrote and starred in TV serial Les quat' fers en l'air 1954-55; Fridolinades (revue), Orpheum Theatre, Montreal 1956; appeared as Charles VI (Henry V), and Dr. Caius (Merry Wives of Windsor), with Stratford Shakespearean Festival Co., Stratford (Ontario) and Edinburgh Festival 1956; dir. first production L'alouette 1958, played Charles VII in English adaptation The Lark; wrote Bousille et les justes, appearing in title-role at Montreal premiere 1959, then on tour in Canada including Vancouver Int. Festival 1962, Seattle World Fair 1962; wrote, produced, and acted in Le diable à quatre (satirical review) 1964, author and dir. Hier les enfants dansaient, Montreal premiere 1966, appeared in English adaptation Yesterday the Children were Dancing, Charlottetown Summer Festival 1967; f. La Comédie-Canadienne, Montreal, after taking over Gaiety Theatre 1957, Gen. Dir. 1957-72; mem. Bd. of Govs., Nat. Film Bd. of Canada 1950-52; Vice-Pres. Assn. Canadienne du Théâtre Amateur 1950-61; Pres. Canada Theatre Inst. 1959-60; founding mem. Nat. Theatre School of Canada 1960; mem. Royal Soc. of Canada 1958–; Chair. Canada Film Devt. Corpn. 1969-78; Hon. D.Litt. (Montreal) 1949, (Toronto) 1951, Hon. LL.D. (Sask) 1966, (McGill) 1968, (New Brunswick) 1969, (Trent) 1970, (Mount Allinson) 1973; Grand Prix (Dramatists Soc.) for Tit-Coq 1949, Film of Year Award for Tit-Coq 1953, Victor Morin Prize for 1967 (St. Jean Baptiste Soc.) 1967. *Publications:* series of ten topical revues starring 'Fridolin', Tit-Coq (play) 1949, Les quat' fers en l'air (TV serial) 1954-55, Fridolinades (revue) 1956, Bousille et les justes 1959, Le diable à quatre (satirical revue) 1964, Hier les enfants dansaient 1966; films: La Dame aux Camélias 1942, Tit-Coq. *Leisure interests:* classical music, boating, tennis, skating, travel. *Address:* OKA, Quebec, Canada (Home). *Telephone:* (514) 472-1746 (Home).

GELL-MANN, Murray, PH.D.; American physicist; b. 15 Sept. 1929, New York City; s. of the late Arthur and Pauline Gell-Mann; m. J. Margaret Dow 1955; one s. one d.; ed. Yale Univ. of Massachusetts Inst. of Tech.; mem. Inst. for Advanced Study, Princeton 1951, 1955; Instructor, Asst. Prof., and Assoc. Prof., Univ. of Chicago 1952-55; Assoc. Prof., Calif. Inst. of Tech. 1955-56, Prof. 1956-66, R. A. Millikan Prof. of Theoretical Physics 1967-; Research Assoc. Univ. of Illinois 1951, 1953; Visiting Assoc. Prof. Columbia Univ. 1954; Visiting Prof. Collège de France and Univ. of Paris 1959-60, Mass. Inst. of Tech. 1963; mem. Nat. Acad. of Sciences, American Physical Soc., American Acad. of Arts and Sciences; Foreign mem. Royal Soc. 1978-; Fellow and Chair. Western Center, American Acad. of Arts and Sciences 1970-76; Consultant, Inst. for Defense Analyses, Arlington, Va. 1961-70, Rand Corpn., Santa Monica, Calif. 1956-; mem. N.A.S.A. Physics Panel 1964-, President's Science Advisory Cttee. 1969-72, Council on Foreign Relations 1975-; Consultant to Los Alamos Scientific Laboratory, Los Alamos, N.M. 1956-; Chair. of Bd. Aspen Center for Physics 1972-; Citizen Regent, Smithsonian Inst. 1975-; Hon. Sc.D. (Yale) 1959, (Chicago) 1967, (Illinois) 1968, (Wesleyan) 1968, (Utah) 1970, (Columbia) 1977, Dr. h.c. (Turin, Italy) 1969; Dannie Heineman Prize, American Physical Soc. 1959; Ernest O. Lawrence Award 1966, Franklin Medal 1967, John J. Carty Medal (Nat. Acad. of Sciences) 1968, Nobel Prize in Physics 1969, 1972, Council on Foreign Relations 1975-. *Major works:* Developed strangeness theory, theory of neutral K mesons, eightfold way theory of approximate symmetry; current algebra, quark scheme; contributed to theory of dispersion relations, theory of weak interaction and formulation of quantum chromodynamics. *Publication:* (with Yuval Ne'eman q.v.) The Eightfold Way 1964. *Leisure interests:* historical linguistics, wilderness trips. *Address:* Lauritsen Laboratory of Physics, California Institute of Technology, Pasadena, Calif. 91125, U.S.A. *Telephone:* 213-795 6811.

GELLHORN, Martha; American writer and war correspondent; b. St. Louis, Mo.; one s.; ed. John Burroughs School and Bryn Mawr Coll. War Corresp., covering Spanish Civil War, Finnish-Russian War, Sino-Japanese War, Second World War, Java, Vietnam, and Arab-Israeli Wars; now occasional journalism in Europe and Africa. *Publications:* The Trouble I've Seen 1936, A Stricken Field 1939, The Heart of Another 1940, Liana 1943, The Wine of Astonishment 1948, The Honeyed Peace 1953, Two by Two 1958, The Face of War 1959, His Own Man 1961, Pretty Tales for Tired People 1965, The Lowest Trees Have Tops 1967, The Weather in Africa 1978, Travels with Myself and Another 1978. *Address:* c/o Morgan Guaranty Trust Co., 31 Berkeley Square, London, W.1, England.

GELZER, (Carl Otto) Michael, D.IUR.; Swiss diplomatist; b. 23 July 1916, Schaffhausen; s. of Heinrich Gelzer and Charlotte Lüdecke; m. Marie Christiane Sarasin 1964; two s.; ed. Univ. of Basle. Deputy Attorney-Gen. of Canton of Basle City 1943-45; Fed. Political Dept., Berne 1946; Second Sec. Legation in Bucharest 1951, First Sec. Del. in Berlin, Deputy Chief of Mission 1955; Chief of Section, Fed. Political Dept. 1957; Counsellor of Embassy and later Deputy Chief of Mission, Washington, D.C. 1961; Deputy Chief of Div. for Political Affairs, Fed. Political Dept. 1966, Deputy Dir., Chief of Div. for Political Affairs (Africa, Asia and Latin America) 1973-75; Amb. to Fed. Repub. of Germany 1975-. *Address:* Embassy of Switzerland, Gotenstrasse 156, D-5300 Bonn 2, Federal Republic of Germany. *Telephone:* 37-66-55.

GEMAYEL, Sheikh Pierre; Lebanese politician; b. 1905; ed. Univ. St. Joseph, Beirut and Cochin Hospital, Paris; trained as pharmacist; f. Parti Démocrate Social Libanais (Les Phalanges) 1936, Leader 1937-; imprisoned 1937, 1943; organized general strike 1943; est. the first Labour Code 1944; Minister of Public Works 1960, of Finance 1960-61, of Communications 1960, of Public Health 1960, 1961, of Public Works 1961-64, of the Interior 1966-67; mem. Chamber of Deputies 1960-; led Phalangist militia in Lebanese civil war 1975-76; Lebanese, Polish and Egyptian decorations. *Address:* Phalanges Libanaises, P.O. Box 992, Place Charles Hélou, Beirut, Lebanon.

GENEEN, Harold Sydney, B.S.; American business executive; b. 22 Jan 1910, Bournemouth, England; s. of Alexander and Aida (DeCruciani) Geneen; m. June Elizabeth Hjelm 1949; ed. New York Univ., Harvard Business School; worked for Wall Street brokers 1926-32; Accountant, Mayflower Associates Inc. 1932-34, Lybrand, Ross Bros. & Montgomery 1934-42; American Can Co. 1942-46; Bell & Howell Co., Chicago 1946-50; Jones & Laughlin Steel Corp., Pittsburgh (Vice-Pres. and Controller) 1950-56; Exec. Vice-Pres. and Dir. Raytheon Manufacturing Co., Waltham 1956-59; Pres. and Chief Exec. Officer, Dir. Int. Telephone and Telegraph Corpn. 1959-73, Chair. 1964-, Pres., Chief Operating Officer 1973-77; mem. Board Int. Rescue Cttee.; U.S. Chair. Advisory Cttee. European Inst. Business Admin.; Doctor of Laws (PMC Colls., Lafayette Coll.); Grand Officer, Order of Merit for Distinguished Service, Peru, Commdr. of Belgian Order of the Crown, Great Cross Civil Merit, Grand Cross of Isabella (Spain). *Address:* 320 Park Avenue, New York, N.Y. 10022, U.S.A.

GENET, Jean; French author; b. 19 Dec. 1910, Paris; s. of Camille Gabrielle Genet; lived in orphanage till age of seven; placed with peasant family in Morvan district of France; subsequently sent to reformatory; frequently imprisoned for theft, male prostitution, etc., both in France and abroad, to 1948, pardoned by French President after petition by artists and intellectuals 1948; began writing in Fresnes prison 1942; in recent years has developed involvement with Black Panthers, Palestine Liberation movements, etc. *Publications include:* prose: Notre-Dame-des-Fleurs 1944, Miracle de la rose 1946, Pompes funèbres 1947, Querelle de Brest 1947, Le journal du voleur 1949; plays: Les bonnes 1947, Haute surveillance 1949, Le balcon 1956, Les nègres 1959, Les paravents 1960; poems: Le condamné ■ mort 1942, Chants secrets 1945, La galère, La parade, Un chant d'amour 1948, Le pêcheur du Suquet 1949; ballet: 'Adame Miroir 1949; other: L'atelier d'Alberto Giacometti 1961, Lettres à Roger Blin 1966. *Address:* c/o Rosica Colin, 4 Hereford Square, London, SW7 4TU, England; and Editions Gallimard, 5 rue Sebastien Bottin, Paris 7e, France.

GENEVOIX, Maurice; French novelist; b. 29 Nov. 1890, Decize, Nièvre; s. of Gabriel and Camille Balichon; m. Suzanne Neyrolles 1943; two d.; ed. Ecole Normale Supérieure; mem. Acad. Française 1946-, Perm. Sec. 1958-73, Hon. Perm. Sec. 1973-; fmr. Pres. Conseil de la Radiodiffusion Française; Hon. Pres. of the Librairie Académique Perrin 1960-; mem. Conseil Supérieur des Gens de Lettres; Prix Goncourt 1925, Grand Prix national des Lettres 1970; Grand Croix de la Légion d'honneur, Croix de guerre, Commdr. Ordre des Arts et des Lettres, Commdr. Ordre des Palmes académiques. *Publications:* Sous Verdun 1914, Nuits de guerre 1917, Au seuil des guitounes 1918, Jeanne Robelin 1920, La boue 1921, Rémi des Rauches 1922, Les eparges 1923, La joie 1924, Raboliot 1925, La Boîte à pêche 1926, Les mains vides 1928, Cyrille 1928, L'assassin 1930, Proû 1931, H.O.E. 1931, Forêt voisine 1933, Gai l'amour 1932, Marcheloup 1934, Tête baissée 1937, La dernière harde 1938, Les compagnons de l'Aubépin 1938, L'hirondelle qui fit le printemps 1941, La framboise et Belhumeur 1942, Canada 1945, Eva Charlebois 1944, Sanglar 1946, L'écureuil du bois bourru 1947, Afrique blanche, Afrique noire 1949, Ceux de 14 1950, L'Aventure est en nous, Fatou Cissé, Routes de l'aventure, Au Cadran de mon clocher, Vaincre à Olympie, Jeux de glaces 1961, La loire, Agnès et les garçons 1962, Derrière les collines 1964, Beau-François 1965, La forêt perdue 1967, Le roman de Renard, Jardins sans murs 1968, Tendre bestiaire 1968, Bestiaire enchanté 1969; Bestiaire sans oubli 1971, La grèce de Caramanlis 1972, La mort de près 1972, La perpétuité 1974, Un jour 1976, Lorelei 1978, Vlaminck. *Leisure interest:* painting. *Address:* 17 rue Davioud, 75016 Paris; "Les Vernelles", 45 Saint-Denis-de-l'Hôtel, France.

GENILLARD, Robert Louis, M.A. (ECON.); Swiss banker and industrialist; b. 15 June 1929, Lausanne; s. of André E. and Mildred (Cornish) Genillard; m. Dirkje H. de Boer 1956; two s. three d.; ed. College and Gymnase Scientifique, Lausanne, Univs. of Lausanne and New York. General Partner, White Weld & Co., New York 1958-70; Chair. Credit Suisse White Weld Group, Zug, Switzerland 1970-77; Deputy Chair. Thyssen-Bornemisza N.V., Amstelveen, Netherlands 1972, now Chair.; Dir. Financière Credit Suisse-First Boston 1970, Clariden Bank 1970, Swiss Aluminium Ltd. 1974, Cie. des Machines Bull 1976, Corning Glass Works 1977, American Express Co. 1978, American Express Int. Banking Corpn. 1978. *Publications:* many articles, confs. and professional publs. *Address:* 1 Quai du Mont-Blanc, 1211 Geneva, Switzerland.

GENNES, Pierre G. de, PH.D.; French physicist; b. 1932, Paris; m. Anne-Marie Rouet 1954; one s. two d.; ed. Ecole normale Supérieure. Research Scientist, Centre d'Etudes Nucléaires de Saclay 1955-59; Prof. of Solid State Physics, Univ. of Paris, Orsay 1961-71; Prof. Coll. de France 1971-, also Dir. Ecole de Physique et Chimie, Paris 1976-; Hollweck Prize 1968, Prix Cognac-Jay 1970, Prix Ampère 1977. *Publications:* Superconductivity of Metals and Alloys 1965, The Physics of Liquid Crystals 1973, Scaling Concepts in Polymer Physics 1979. *Leisure interests:* skiing, canoeing. *Address:* 6 rue de Versailles, 91400 Orsay, Paris, France. *Telephone:* 928-42-93.

GENOVÉS, Juan; Spanish artist; b. 1930, Valencia; ed. Escuela Superior de Bellas Artes, Valencia; has taken part in numerous group exhbns.; one-man exhbns. in Spain, Portugal, U.S.A., Italy, Germany, Netherlands, Japan, U.K. and S. America 1956-; took part in Paris Biennale 1961, Venice Biennale 1962, 1966, São Paulo Biennale 1965, etc.; Gold Medal, San Marino Biennale 1967, Premio Marzotto 1968. *Address:* c/o Marlborough Fine Art, 6 Albemarle Street, London, W.1, England.

GENSCHER, Hans-Dietrich; German politician; b. 21 March 1927, Reideburg, Saale; ed. Leipzig and Hamburg Univs. Scientific Asst., Parl. Free Democratic Party (FDP) 1956, later Sec.; Fed. Party Man. 1962-64, Vice-Chair. 1968-74, Chair. 1974-; Deputy in Bundestag 1965-; Fed. Minister of the Interior 1969-74; Vice-Chancellor, Minister of Foreign Affairs 1974-. *Address:* Auswärtiges Amt, Adenauerallee 99-103, Bonn, Federal Republic of Germany.

GENSOUS, Pierre; French trade union official; b. 25 July 1925; Mont-de-Marson; one s. one d.; ed. Ecole Nationale Professionnelle, Tarbes. Official, Union départementale des Hautes Pyrenées des syndicats CGT, Sec. Féd. des Métaux CGT 1954; Pres. Int. Union of Metal Workers' Trade Unions 1961-62, Sec.-Gen. 1964; Asst. Sec.-Gen. WFTU 1965-69, Sec.-Gen. 1969-. *Address:* World Federation of Trade Unions, Nám. Curieových 1, Prague 1, Czechoslovakia. *Telephone:* 67856.

GENTIL, Paul; French railway executive; b. 20 Dec. 1921, Bourbon l'Archambault (Allier); s. of Julien Gentil and Anna Raynal; m. Marise Marfaing 1947; two d.; ed. Lycée d'Aurillac, Lycée de Clermont-Ferrand, Ecole Polytechnique and Ecole Nat. Supérieure des Mines, Paris; Mining Engineer, Clermont-Ferrand, 1948-54; Railway Engineer, Soc. Nat. des Chemins de Fer Français (SNCF-French Nat. Railways), Dir. of Movement 1966-71, Deputy Dir.-Gen. 1971-74, Dir.-Gen. 1974-; Chevalier, Légion d'honneur. *Address:* 88 rue Saint-Lazare, 75436 Paris Cédex 09, France. *Telephone:* 285-60-00.

GEORGADZE, Mikhail Porfiriyevich; Soviet government official; b. 12 March 1912, Zodi, Chiatura District, Georgia; ed. Moscow Inst. of Mechanization and Electrification of Agriculture; worked ■ tractor driver 1929-34; mem. CPSU 1942-; Engineer and subsequently Chief Engineer and Dept. Chief at U.S.S.R. Ministry of Agric. 1941-51; Chief Transcaucasian Motor Tractor Stations Admin., Georgia 1951-53; First Deputy Chair. Georgian Council of Ministers, and Minister of Agric., Georgia 1953-54; Second Sec. Cen. Cttee. Georgian CP 1954-56; First Deputy Chair. Georgian Council of Ministers 1956-57; Sec. Presidium U.S.S.R. Supreme Soviet Feb. 1957; Cand. mem. CPSU Cen. Cttee. 1966-; Deputy to U.S.S.R. Supreme Soviet of 4-8 Convocations; Order of Lenin (twice), etc. *Address:* Presidium of Supreme Soviet of U.S.S.R., The Kremlin, Moscow, U.S.S.R.

GEORGE, André, D.L.; French critic, essayist and physicist; b. 31 July 1890, Blida, Algeria; s. of Gaston George and Berthe Constant-François; m. Paule d'Izarny-Gargas 1937; two step-s., two step-d.; ed. Paris Univ.; Air Commdt. 1940; mem. Comité du Langage Scientifique (founded by Acad. des Sciences); mem. Editorial Cttee. and Dir. Science Page, Nouvelles Littéraires 1945-71; Dir. series Sciences d'aujourd'hui and Les Savants et le Monde; Science Corresp. for Figaro; Pres. Société Scientifique de Bruxelles 1951-53; Métais-Larivière Prize of Acad. Française for Pasteur 1975; Grand Prix Broquette-Gonin for Collected Works, Acad. Française 1962, Prix Binoux de l'Acad. des Sciences pour écrits scientifiques 1969; Officier de la Légion d'honneur, Croix de guerre, Officier Ordre des Arts et des Lettres. *Publications:* Henri Poincaré (critical essay), Arthur Honegger 1926, Tristan et Isolde de Wagner 1927, L'oratoire 1928, L'oeuvre de Louis de Broglie et la physique d'aujourd'hui 1931, Mécanique quantique et causalité 1932, Les conséquences générales de la physique contemporaine 1933, Pierre Termier (awarded Bordin Prize of Acad. Française) 1933, Les nébuleuses spirales et l'univers en expansion 1934, Paris (essay) 1937, Le véritable Humanisme 1942, Dimensions du temps 1943, Les grands appels de l'homme contemporain 1946, Pasteur 1958, trans. and complementary chapter of Einstein, his Life and Time (by Ph. Frank) 1952-68, trans. and introduction of Scientific Autobiography and Last Papers (Max Planck) 1960, Science et foi 1962, Napoléon et les sciences (in Napoléon) 1968, Vue d'ensemble de l'oeuvre de Louis de Broglie 1973, Louis de Broglie, créateur de la mécanique

ondulatoire 1975; numerous magazine and lecture writings. *Address:* Château de Gargas, Fronton, Haute-Garonne, 31620, France. *Telephone:* (61) 84-95-16.

GEORGE, Thomas Neville, PH.D., D. ES SC., LL.D., F.R.S., F.R.S.E.; British university professor; b. 13 May 1904, Swansea, Wales; s. of T. Rupert George; m. Sarah Davies 1932; ed. Dynevor School and Grammar School, Swansea, Univs. of Wales, Cambridge and London; Fellow, Univ. of Wales 1926, Geologist on H.M. geological survey 1930-33; Prof. of Geology, Univ. of Wales 1933-46; Prof. of Geology, Univ. of Glasgow 1947-74, Emer. Prof. 1974-; Woodward Lecturer, Yale Univ. 1956; Senior Foreign Fellow, Northwestern Univ. 1964; Visiting Prof., Univs. of Witwatersrand, Cape Town and Natal 1967; Distinguished Visiting Lecturer, Univ. Saskatchewan 1974; Leverhulme Emer. Fellow 1977-78; Pres. Assen. of Univ. Teachers 1959-60, Palaeontological Assen. 1962-64, Scottish Field Studies Assen. 1965-68, Geological Soc. of London 1968-70, Assen. of Teachers of Geology 1970-71; Corresp. mem. Geol. Soc. Belgium; Kelvin Prize, Royal Philosophical Soc. 1975; Lyell Medal, Geological Soc. of London 1963, Clough Medal, Edinburgh Geological Soc. 1973, Neill Medal, Royal Soc. of Edinburgh 1978. *Publications:* Evolution in Outline 1948, British Regional Geology: North Wales 1961, University Instruction in Geology 1965, The British Caledonides 1966, The Geology of Scotland 1967, British Regional Geology: South Wales 1970. *Address:* Department of Geology, University of Glasgow, Glasgow, W.2, Scotland. *Telephone:* 041-339-8855, Ext. 224.

GEORGE, W. H. Krome; American chemical engineer and business executive; b. 27 March 1918, St. Louis, Mo.; m. Jean Murphy 1946; three s.; ed. Edwardsville Public School, Ill., Virginia Mil. Inst. and Mass. Inst. of Technology (MIT). Joined Aluminium Co. of America (Alcoa) 1942, Plant Technical Div., Baton Rouge 1942-44, Cost and Tech. Adviser, East St. Louis 1944-51, Senior Staff Accountant, Pittsburgh 1951-56, Chief Cost Accountant 1956-60, Admin. Asst. Controller's Div. 1960-63, Man. Econ. Evaluation Div. 1963-64, Vice-Pres. Econ. Analysis and Planning 1964-65, Vice-Pres. (Finance) 1965-67, Exec. Vice-Pres. 1967-70, Dir. 1967-, Pres. 1970-75, Chief Operating Officer 1972-75, Chair. of Board and Chief Exec. Officer 1975-, Chair. of Bd. Business Cttee. for the Arts; Dir. PPG Industries Inc., Pullman Inc., Mellon Bank N.A., Nat. Center for Resource Recovery, Int. Primary Aluminium Inst., Int. Execs. Service Corps, Mellon Nat. Corpn., Pennsylvania Economy League, U.S.-U.S.S.R. Trade and Econ. Council Inc.; fmr. Metro Chair. Nat. Alliance of Businessmen; mem. Corpn. Mass. Inst. Tech. (MIT), World Affairs Council of Pittsburgh, Council on Foreign Relations, Management Executives Soc., Nat. Industrial Energy Council, U.S. Council of the Int. Chamber of Commerce, Corpn. of Woods Hole Oceanographic Inst., Business Round-table, Business Cttee. for the Arts, The Business Council, Nat. Centre for State Courts, Nat. Advisory Council on Minorities in Eng., Pennsylvania Soc., Exec. Cttee. Allegheny Conf. on Community Devt.; Dir. Pittsburg Symphony Soc.; mem. Advisory Bd., Center for Strategic and Int. Studies, mem. Advisory Council Aluminium Assen., Advisory Council, Graduate School of Business, Columbia Univ., New York; Trustee Univ. of Pittsburgh, Conference Board, Foundation for Ind. Colls., Allegheny Health, Educ. and Research Corpn. *Address:* Aluminum Company of America, 1501 Alcoa Building, Pittsburgh, Pennsylvania, U.S.A.

GEORGE-BROWN, Baron (Life Peer), cr. 1970 of Jevington in the County of Sussex; **George Alfred George-Brown,** P.C.; British politician; b. (as George Alfred Brown) 2 Sept. 1914, Lambeth; s. of George Brown; m. Sophie Levene 1937; two d.; mem. Parl. 1945-70; Parl. Private Sec. to Minister of Labour and Nat. Service 1945-47, to Chancellor of Exchequer 1947; Joint Parl. Sec. Ministry of Agric. and Fisheries 1947-51; Minister of Works April-Oct. 1951; Deputy Leader, Labour Party 1960-70; First Sec. of State and Sec. of State for Econ. Affairs 1964-66; Sec. of State for Foreign Affairs and Deputy Prime Minister 1966-68; Productivity Counsellor, Courtaulds Ltd. 1968-73; Dir. Diebold Computer Leasing 1973-, First Fortune Holdings 1974-; Chair. Council for Int. Contact Trust 1974-, Stewart Title (U.K.) Ltd. 1974-; Freeman, City of London 1978; Biancamano Prize 1972; Order of Cedar of Lebanon 1971; Labour (to 1976). *Publication:* In My Way (memoirs) 1971. *Address:* House of Lords, London, S.W.1, England.

GEORGES-PICOT, Guillaume, L. en D.; French diplomatist (retd.) and business executive; b. 10 Aug. 1898, Etretat; m. Nadya Biske 1932; three d; served French Army First World War; entered Diplomatic Service as Embassy Attaché 1924, Ministry of Foreign Affairs Paris, placed on reserve list at his own request 1926, rejoined service 1928; Sec. Moscow 1928-30; Ministry of Foreign Affairs Paris 1930; took part in Int. Conf. Lausanne 1932; successively Sec. Sofia, Sec. Bangkok, Sec. Pèking, Sec. Mexico City; at disposal of Residency-Gen. Tunisia 1940-41; sent to Washington 1941; joined Free French and became Dir. of Civil Services French Mission to Washington 1942; served Free French Forces 1943-44; later at Commissariat of Foreign Affairs; after Liberation at Ministry of Foreign Affairs, Paris; sent on mission to China; Minister to Albania 1946; Amb. to Venezuela 1946-48, to Argentina 1948-51; Asst. Sec.-Gen. of UN 1951-54; Amb. to Mexico 1954-57; Perm. Rep. to UN and to Security Council 1957-59; Dir., then Pres. Compagnie industrielle maritime 1962-70, Hon. Pres. 1970-; Vice-Pres. Soc. d'investissements métropolitains et d'outre-mer (SIMER) 1959-76, Soc. des plantations réunies de Mimot 1959-76; Dir. of other companies; Hon. Chair. Franco-American Cttee. 1968-; Commdr. de la Légion d'honneur, Croix de guerre. *Leisure interests:* gardening, hiking, reading. *Address:* 66 avenue Foch, 75116 Paris, France. *Telephone:* 500-23-07.

GEORGES-PICOT, Jacques Marie Charles; French company director; b. 16 Dec. 1900, Paris; s. of Charles and Marthe (Fouquet) Georges-Picot; m. Angeline Pellé 1925- five s.; ed. Lycée Janson-de-Sailly, Ecole Libre des Sciences Politiques and the Sorbonne; Insp. of Finance 1925; Deputy Head of Secr., Ministry of Air 1928; Head of Secr., Ministry of Budget 1930; Deputy Dir. of Budget 1931; Dir. of Taxes 1935; Asst. Man., Suez Canal Co. 1937, Pres. and Dir.-Gen. 1957-70, Hon. Pres. 1970- (renamed Suez Finance Co. 1958); Pres. Crédit Industriel del' Ouest 1957-71, Hon. Pres. 1971-; Vice-Pres. Cie. de Pont-à-Mousson 1966-70, Crédit Industriel et Commercial; fmr. Dir. La Providence, Saint-Gobain, Cie. française des pétroles, etc.; Dir. Fondation Nationale des Sciences Politiques 1961, Inst. Catholique de Paris; Commdr. de la Légion d'honneur, Hon. K.B.E. *Publication:* La Véritable Crise de Suez 1976. *Leisure interest:* gardening. *Address:* 2 Square Mignot, Paris 16e, France.

GEORGI, Rudi, DR.RER.OEC.; German economist and politician; b. 25 Dec. 1927, Bockau. mem. SPD 1945, SED 1946-; Cand. mem. Cen. Cttee. SED 1967-; Minister for Machine and Vehicle Construction 1965-; Orden Banner der Arbeit, Vaterländischer Verdienstorden, and other decorations. *Address:* Ministerrat, Berlin, German Democratic Republic.

GEORGIEV, Vladimir Ivanov; Bulgarian university professor; b. 1908, Gabare; s. of Ivan G. Grazdanina and Janka Zeljazkova; m. Magdalena A. Obreimova 1953; ed. Univs. of Sofia, Vienna, Paris, Berlin and Florence. Prof. Univ. of Sofia since 1931, Dean Faculty of Letters 1947-48, Rector 1951-56; Dir. Inst. for Linguistics Acad. of Science; mem. Presidium Bulgarian Acad. of Science; Hon. Pres. Assen. Int. des Etudes; Vice-Pres. Int. Cttee. of Slavists; mem. Acad. des Inscriptions et Belles Lettres, Paris, Sächsiche Akad. der Wissenschaft, Leipzig, Soc. Finno-Ougrienne, Helsinki, Acad. Royale de Belgique, Acad. of Athens; Dr. h.c. (Berlin and Prague). *Publications:* many works, including Vorgriechische Sprachwissenschaft 1941, Issledovanija po sravniteljno-istoricheskomu jezykoznaniyu 1958, Les deux langues des inscriptions crétoises 1963, Vokalnata sistema v røavoja na slavjanskite ezici 1964, Introduzione alla storia delle lingueindeuropee 1966, Osnovni problemi na slavjanskata diahronna morfologija 1969, Trakijskijat ezik 1977 etc. *Address:* c/o Bulgarian Academy of Sciences, 7 Noemvri 1, Bulgaria.

GEORGY, Guy-Noël; French diplomatist; b. 17 Nov. 1918, Paris; m. Odette Bonhomme 1944; two s. one d.; ed. Faculty of Law, Bordeaux and Paris; Chief of Cabinet and Head of Information Dept., Cameroon 1945-49; Attaché, Ministry for French Overseas Territories 1950; Head of North Cameroon Dist., Maroua 1951-55; Chief of Cabinet, Ministry for French Overseas Territories 1955; Gen. Sec. to Gabon 1956; Gen. Man. of Econ. Affairs and Plan, Equatorial Africa 1957, West Africa 1958; High Commr. in Congo 1959; High Commr. Congo (Brazzaville) 1960; Amb. to Bolivia 1961-64, to Dahomey 1964-69, to Libya 1969-75; Dir. of African and Malagasy Affairs in Cen. Admin. 1975-. *Address:* 9 avenue Franco-Russe, 75007 Paris, France. *Telephone:* 551-87-50 (Paris).

GÉRALDY, Paul (pseudonym of Paul Lefèvre-Géraldy); French writer; b. 6 March 1885, Paris; ed. Lycée Henri IV, Lycée Buffon, Paris; Commdr. Légion d'honneur. *Publications include:* Toi et moi, Vous et moi (verse), Les noces d'argent, Les grands garçons, Aimer, Duo (adapted from Colette), Christine, Robert et Marianne (plays), Clindindin (for children), L'homme et l'amour (essay), Trois comédies sentimentales, Vous qui passez (plays). *Address:* 3 rue de Martignac, Paris, France.

GERASIMOV, Innokentiy Petrovich, D.GEOG.; Soviet geographer and pedologist; b. 22 Dec. 1905, Kostroma; s. of P. V. Gerasimov and M. P. Gerasimova; m. R. P. Zimina 1951; two d.; ed. Univ. of Leningrad; Dokuchaev Inst. of Soil Science 1930-56; Chief, Div. of Geography and Cartography of Soils 1950-56; Dir. Inst. of Geo-

graphy, Acad. of Sciences of U.S.S.R. 1956-; Prof. Faculty of Geography, Lomonosov State Univ. of Moscow 1946-56; Editor-in-Chief Proceedings of the Academy of Sciences of U.S.S.R.; mem. Acad. of Sciences 1953-; Pres. All-Union Soc. of Soil Science 1964-72; Vice-Pres. All-Union Geographical Soc. 1956-, Int. Geographical Union 1958-66; mem. Acads. of Science of Bulgaria, German Dem. Repub., Hungary; Hon. mem. Geographical Socs. of Poland, Finland, Serbia, Austria, Italy, Colombia, Cuba, France, Hungary, German Dem. Repub., Bulgaria, Royal Geographical Socs. of England and Scotland; State Prize; Order of Lenin, Order of Red Star, Badge of Honour, etc. *Publications:* Lednikovyi period na teritorii S.S.S.R. (Glacial Period of the U.S.S.R. Territory) 1939, Ocherki po fizicheskoi geografi zarubezhnykh stran (Essays on the Physical Geography of Foreign Countries) 1959, Osnovy pochvovedenia i geografi pochv (Principles of Soil Science and Geography of Soils) 1960, Pochvite v Bolgaria (Soils of Bulgaria) 1960, Strukturnye cherty reliefa S.S.S.R. (Structural Features of the Relief of the U.S.S.R.) 1958, Pochvy tsentralnoi Yevropy (Soils of Central Europe) 1960, Soviet Geography (Editor-in-Chief) 1960, Physico-Geographical Atlas of the U.S.S.R. 1964, Preobrazovanie prirody i razvitije geograficheskoj nauki v S.S.S.R. (The Transformation of Nature and Development of Geographical Science in the U.S.S.R.) 1967, Resursy biosfery na teritorii S.S.S.R. (Resources of the Biosphere in the U.S.S.R. Territory) 1971, National Atlas of Cuba 1972, Chelovek, obshchestvo, sreda (Man, Society, Environment) 1973, Novye puti v geomorphologii i paleogeografii (New Trends in Geomorphology and Paleogeography) 1976, Sovetskaya Konstruktivnaya geografiya, Zadachi, podkhody, rezultaty (Soviet Constructive Geography, aims, approaches, results) 1976. *Leisure interests:* art, music. *Address:* Institute of Geography, Academy of Sciences of the U.S.S.R., 29 Staromonetny pereulok, Moscow, 109017, U.S.S.R. *Telephone:* 231-61-44.

GERASIMOV, Sergey Appolinarievich; Soviet film director and dramatist; b. 3 June 1906, Yekaterinburg (now Sverdlovsk); m. Tamara Makarova (*q.v.*) 1928; one s.; ed. State Inst. of Scenic Arts, Leningrad; began work in films as an actor 1924; acted in films The Overcoat 1926, S.V.D. 1927, One 1930, The Border 1935, Masquerade 1941; organized Leningrad Actor's Workshop and directed films Seven Brave People 1935, Komsomolsk 1937, The Teacher 1939; other films The Unvanquished 1942, Great Land 1944, The Young Guard 1948, Liberated China 1950, Country Doctor 1952, Quiet Flows the Don 1958, The Sputnik Speaks 1959, Men and Beasts 1962, The Journalist (First Prize, Moscow Film Festival 1967), At the Lake 1970 (State Prize 1971), To Love a Man 1973, Daughters and Mothers 1975; TV series Red and Black (after Stendhal) 1976; mem. Praesidium Soviet Peace Cttee., Praesidium Union of Soviet Socs. of Friendship and Cultural Relations with Foreign Countries, Editorial Bd. of Foreign Literature; elected full mem. U.S.S.R. Acad. of Pedagogics 1974; People's Artist of U.S.S.R.; State prizes for films The New Teacher 1941, The Young Guard 1949, Liberated China 1951; Prof. and Head of the Directors and Actors' Studios of the All-Union State Inst. of Cinematography; Sec. Assen. of Film Makers of the U.S.S.R.; mem. CPSU 1943-; Deputy to Supreme Soviets of U.S.S.R. 1950-58, R.S.F.S.R. 1967-; Order of Lenin (twice) and numerous decorations. *Publications:* screenplays The Teacher 1939, Our Days 1940, articles on cinema. *Address:* Union of Cinematographists of the U.S.S.R., 13 Vassilevskaya Ulitsa, Moscow, U.S.S.R.

GERDENER, Theo J. A.; South African politician; b. 19 March 1916, Cape Town; s. of late Dr. G. B. A. Gerdener; m. Martha van Rensberg 1943; three c.; ed. Univ. of Stellenbosch; fmr. mem. editorial staff, Die Burger and Die Huisgenoot; freelance journalist 1949-; Leader, Nat. Party, Natal Prov. Council 1954; Dir. and Ed. Die Nataller (Afrikaans newspaper), Durban 1954-59; Senator 1961; Administrator of Natal 1961; Deputy Minister of Bantu Devt. May 1970; Minister of the Interior 1970-72 (resgnd.); f. and Dir. Action South and Southern Africa 1972-77; Founder, Leader Dem. Party 1973-77; Hon. Life Pres., New Repub. Party 1977-. *Leisure interests:* reading and writing. *Address:* 160 Anderson Street, Brooklyn, Pretoria, South Africa.

GERE, Mihai; Romanian politician; b. 2 Sept. 1919, Timişoara; m. Maria Gere; one s. one d.; mem. Union of Communist Youth 1939-40; mem. Romanian Communist Party (RCP) 1940-; imprisoned for anti-fascist activities 1940-44; political worker RCP Cen. Cttee. 1955-64, mem. 1965-, Sec. 1966-74; Chair. Exec. Cttee. People's Council, Mureş Autonomă Maghiară Region 1964-66; mem. Grand Nat. Assembly 1965-; Vice-Pres. State Council 1965-67; Chair. State Cttee. for Local Admin. 1967-69; Alt. mem. Exec. Political Cttee. 1965-; Hero of Socialist Labour. *Address:* Central Committee Partidul Comunist Român, Bucharest, Romania.

GERENTZ, Sven; Swedish journalist; b. 3 Sept. 1921, Visby, Sweden; s. of Thure and Elin (née Hemström) Gerentz; m. Kerstin Blix 1945; one s. one d.; ed. Stockholm School of Economics; Sec. to Board of Trade 1945-52, Chamber of Commerce 1952-57; Man. Dir. Swedish Automobile Manufacturers' Assen. 1957-59, Chair. 1960-; Deputy Man. Dir. Svenska Dagbladet 1960-62, Man. Dir. 1962-73, Chief Editor 1969-73; Vice-Chair. Board, Tidningarnas Telegrambyraa (Swedish News Agency) 1965-72, Chair. 1972-73, Man. Dir. 1974-; mem. Board, Stockholm Chamber of Commerce 1965-. *Publications:* The Stockholm Mercantile Marine Office 1748-1948 1948, The Swedish Board of Commerce and the Economy 1951. *Address:* Tidningarnas Telegrambyraa, Sveavägen 17, 105 12 Stockholm (Office); Johannesgatan 28, 111 38 Stockholm, Sweden (Home). *Telephone:* 22-44-80 (Office); 11-77-39 (Home).

GERHARDSEN, Einar; Norwegian politician; b. 10 May 1897; road worker 1914-22; Chair. Road Repairers' Union 1919; Sec. Norwegian Municipal Assen. 1922-23; Sec. Oslo Labour Party 1925-35; Sec. Norwegian Labour Party 1934-45; mem. Oslo Town Council 1932-45; Mayor of Oslo 1940, dismissed by Germans; worked as road repairer; mem. Secret Cen. Cttee.; arrested 1941; deported to Germany 1942; held in Gestapo HQ in Oslo ■ hostage against British Mosquito raids 1944; again Mayor of Oslo 1945; Chair. Labour Party 1945-65; Prime Minister 1945-51; Leader Labour Party in Parl. 1951-55; Pres. of Parl. 1954-55; Prime Minister 1955-Aug. 63 and Sept. 1963-Oct. 1965; mem. Parl. 1965. *Address:* c/o Stortinget, Oslo, Norway.

GERLACH, Manfred, DR. JUR.; German politician; b. 8 May 1928, Leipzig; joined Liberal-Dem. Party 1945; co-founder F.D.J. (Free German Youth), Leipzig, German Dem. Repub., mem. Cen. Cttee. 1949-59; Mayor of Leipzig 1950-54; Gen. Sec. Liberal-Demokratische Partei Deutschlands (LDPD) 1954-67, Chair. 1967-; mem. Volkskammer 1949-, Nat. Council of Nat. Front 1954-; Deputy Chair. of the State Council (Staatsrat) 1960-; Vice-Pres. German-British Soc. 1963-67; decorations include Vaterländische Verdienstorden in Gold (twice). *Leisure interests:* literature and gardening. *Address:* LDPD, Johannes-Dieckman-Strasse 48/49, 108 Berlin, German Democratic Republic. *Telephone:* 2202171.

GERLACH, Walther, DR. RER. NAT.; German physicist; b. 1 Aug. 1889, Biebrich am Rhein; m. Dr. Ruth Probst 1939; ed. Univ. of Tübingen; Lecturer at Tübingen 1916, Göttingen 1917, Frankfurt 1920, Extraordinary Prof. Univ. of Frankfurt 1921-25; Prof. of Physics, Tübingen Univ. 1925 and Munich Univ. 1929-57 now Prof. Emer.; mem. Bavarian Acad. of Science, Göttingen Acad. of Science, Acad. Leopoldina Halle; Hon. mem. Int. Acad. for History of Science, Paris; Dr. Med. h.c., Dr. Rer. h.c. *Publications:* Grundlagen der Quantentheorie 1921, Atombau und Atomabbau 1923, Materie, Elektrizität, Energie 1923, Die chemische Spektralanalyse 1930, Part II 1933, Part III 1936, Magnetismus 1931, Foundations and Methods of Chemical Analysis by the Emission Spectrum 1934, Methoden der naturwissenschaftlichen Erkenntnis 1936, Max Planck-Werk und Wirkung 1948, Akademische Provinz 1949, Humaniora und Natur 1950, Physik des täglichen Lebens 1956, Physik (Fischer Lexikon) 1960, 1967, Humanität und Naturwissenschaftliche Forschung 1962, Die Sprache der Physik 1962, Physik in Geistesgeschichte und Pädagogik 1964, Johannes Kepler 1966, Der Natur die Zunge lösen, Leben und Leistung grosser Forscher 1967, Otto Hahn 1969, Johannes Kepler, Dokumente 1971, Zeichen der Natur, Naturerscheinungen 1972, Kepler und die Copernicanische Wende 1973. *Leisure interest:* history of science. *Address:* 15 Franz Joseph Strasse, 8000 Munich 40, Federal Republic of Germany.

GERLING, Hans, DR. RER. POL.; German insurance executive; b. 6 June 1915, Cologne; s. of Robert and Auguste (Hoffmeister) Gerling; m. Irene Uhrmacher 1942; one s. three d.; ed. Universität zu Köln; with Gerling-Konzern Versicherungsgesellschaften (insurance cos.) 1937-; Chair. Board Gerling-Konzern Rheinische Versicherungs-Gruppe AG, Cologne, Gerling-Global Gen. and Reinsurance Co. Ltd., Gerling Insurance Service Co. Ltd., London, Gerling Global Gen. Insurance Co., Reinsurance Co., Life Insurance Co., Toronto, Gerling Global Offices Inc., N.Y., Gerling Global Reinsurance Co. of S. Africa Ltd.; holds top positions in numerous other companies. *Leisure interest:* history of science. *Address:* Cologne, von-Werth-Strasse 14 (Office); Cologne, Gereonshof, Federal Republic of Germany (Home). *Telephone:* 224-1.

GERMAIN, Hubert; French politician; b. 6 Aug. 1920, Paris; s. of Gen. and Mrs. Germain; m. Simone Millon 1945; one s. two d.; ed. Lycée Saint-Louis, Paris and Lycée Michel Montaigne, Bordeaux; Sub-Lieut., French Foreign Legion, Libya 1941-42; Attaché to Cabinet of the C.-in-C. Forces of Occupation in Germany 1945; Mayor of Saint-Chéron 1953-65; Chargé de mission, Cabinet of the

Minister of Armed Forces 1960-62, Tech. Adviser 1967-68; Deputy for the fourteenth constituency of Paris 1962-67, 1968-73; Founder and Pres. parl. assen. Présence et Action du Gaullisme 1969-72; Minister of Post and Telecommunications 1972-74, of Parl. Relations March-May 1974; Reassemblement pour la République (R.P.R.). *Address:* 1 place du Palais-Bourbon, Paris 7e, France.

GERMAIN, Paul, D. ès SC.; French professor of theoretical mechanics; b. 28 Aug. 1920, Saint-Malo; s. of Paul Germain and Elisabeth Frangeul; m. Marie-Antoinette Gardent 1942; one s. one d.; ed. Ecole Normale Supérieure de Paris and Univ. of Paris. Research Engineer, Office Nat. d'Etudes et de Recherches Aérospatiales (O.N.E.R.A.) 1946-49, Dir. 1962-68; Assoc. Prof. Univ. of Poitiers 1949-54; Prof. Univ. of Lille 1954-58; Prof. of Theoretical Mechanics Univ. of Paris 1958-77, Ecole Polytechnique 1977-; Visiting Prof., Brown Univ. 1953-54, Stanford Univ. 1969-70; mem. Acad. des Sciences 1970-, Perm. Sec. 1975; mem. Int. Acad. of Astronautics; Foreign mem. Accad. Nazionale dei Lincei, Rome 1976, Polish Acad. of Sciences 1978; Fellow, A.I.A.A.; Dr. h.c. (Louvain) 1961, (Strathclyde) 1975. *Publications:* Mécanique des milieux continus 1962, Cours de mécanique des milieux continus 1973 and more than ninety papers on theoretical aerodynamics, magnetohydrodynamics, shock wave theory and mechanics of continua. *Leisure interests:* hiking, swimming, skiing. *Address:* Ecole Polytechnique, 91120 Palaiseau, Paris 5e (Office); 3 Avenue de Champaubert, 75015 Paris, France (Home). *Telephone:* 941-82-00 (Office); 306-35-53 (Home).

GERMAN, His Holiness; Yugoslav ecclesiastic; b. 1899, Jošanička Banja, Central Serbia; ed. Theological Faculty, Univ. of Belgrade; Bishop of Moravitza 1951, of Budapest 1952, of Žiča 1956; Patriarch, Serbian Orthodox Church 1958-. *Address:* Serbian Patriarchate, P.O. Box 182, 11001 Belgrade, Yugoslavia.

GERMANI, Gino, PH.D.; Argentine sociologist; b. 4 Feb. 1911, Rome, Italy; s. of Luigi Germani and Pasqualina G. Catalini; m. Celia Carpi 1954; one s. one d.; ed. Univs. of Rome and Buenos Aires; Research Assoc., Inst. of Sociology, Univ. de Buenos Aires 1941-45; Prof. of Sociology, Colegio Libre de Estudios Superiores, Buenos Aires and Rosario (Argentina) 1946-55; Prof., Dept. of Sociology, Univ. de Buenos Aires 1955-66, Head of Dept. 1957-62, Dir. Inst. of Sociology 1955-66; Research Program Dir., Centro de Sociologia Comparada, Inst. Torcuato Di Tella, Buenos Aires 1964-66; Visiting Prof. of Sociology, Univ. of Chicago 1959, Columbia Univ., N.Y. 1964-65; First Monroe Gutman Prof. of Latin American Affairs, Harvard Univ. 1966-; Extraordinary Prof. of Sociology, Univ. of Naples, Naples; Vice-Pres. Int. Sociological Assen. 1962-66; mem. Int. Social Science Council 1961-68; Pres. Asociación Sociológica Argentina 1960-66; Hon. Fellow American Acad. of Arts and Sciences; mem. Exec. Cttee. Latin American Social Science Council 1967-; mem. Consiglio italiano per le scienze sociali 1974-; Pres. Seminario Interdisciplinare Scienze Sociali 1978. *Publications:* La Sociologia Cientifica 1956, 1962, Estudios de Psicología Social 1956, Estructura Social de la Argentina 1955, Política y Massa 1961, Política y Sociedad en una Epoca de Transición 1962, 1964, 1966, 1968, 1972, 1974 (trans. Portuguese 1973), La Sociologia en la América Latina 1964, 1965, Estudios de Sociología y de Psicología Social 1966, 1971, Sociología de la Modernización 1969, 1973 (trans. Italian 1971, 1975), Politique et Société 1972, El concepto de Marginalidad 1973, Urbanization, Modernization and the Urban Crisis 1974 (trans. Italian, Spanish 1975), Autoritarismo, Fascismo e Classi Sociali 1975, Authoritarianism, Fascism, National Populism 1978. *Leisure interests:* music, hi-fi, science fiction. *Address:* William James Hall 568, Harvard University, Cambridge, Mass. 02138, U.S.A. (Office); via delle Terme Deciane 11, 00153 Rome (winter and spring); via delle Azalee 35, Numana (Ancona), Italy (Homes). *Telephone:* 495-3849 (Office); 573788 (Home, Rome), 930333 (Home, Ancona).

GERMANI, Fernando; Italian musician; b. 5 April 1906; ed. Rome Conservatoire and Pontifical Inst. of Sacred Music. Prof. of Organ Music at the Rome Conservatoire, Chigiana Music Acad. (Siena), Curtis Inst. (Philadelphia); recitals in the Americas, Australasia, South Africa, Europe; Commdr. Order of St. Gregorius Magno, Commdr. Order of St. Sylvester, Knight Crown of Italy. *Publications:* Revision of works of Girolamo Frescobaldi 1936, A Method of Organ Playing 1942. *Address:* Via delle Terme Deciane 11, Rome, Italy.

GERMANUS, Gyula (Julius); Hungarian orientalist; b. 1884, Budapest; m. 1st Rose Hajnóczy (died 1944); 2nd Kate Kajari 1949; ed. Univs. of Budapest, Istanbul, Vienna and Leipzig; Lecturer at Oriental Acad. of Commerce 1912, Univ. of Political Economy, Dept. of Oriental Sciences 1929, Univ. of Santiniketan, Bengal 1929-32; Sec. Hungarian P.E.N. Club 1926-44; Prof. of Arab Language, Budapest Univ. 1948-65; numerous journeys in Near East; pilgrimage to Mecca 1934; Visiting Lecturer Syrian, Egyptian, Moroccan and Indian Univs.; mem. Accad. del Mediterraneo (Italy), Accad. Leonardo da Vinci (Rome), Arab Acad. of Amman; Corresp. mem. Arab Acad. of Cairo, Arab Acad. of Baghdad, Arab Acad. of Damascus, Indian Inst. of Islamic Studies, Delhi; Fellow, Inst. for Cultural Research (London). *Publications:* Evliya Celebi on 17th Century Guilds in Turkey 1907, The Role of the Turks in Islam 1933-34, Allah Akbar 1936, Sulle orme di Maometto 1938, Az arab szellemiség megujhodása (The Rebirth of Arab Mentality) 1944, Dichtkunst Ibn Rúmis 1957, Autobiography: A félhold fakó fényében (The Half-Moon's Dim Light) 1958, Kelet Fényei Felé (Towards the Light of the East), Modern Poetry of South Arabia, The New Palestinian Poetry under Crossfire; and many treatises on Arabic literature. *Leisure interest:* reading. *Address:* Petöfi tér 3, H-1052 Budapest V, Hungary. *Telephone:* 184-680.

GERSTACKER, Carl A.; American chemical executive; b. 16 Aug. 1916; ed. Univ. of Michigan; Accounting Dept., Dowell Div. Dow Chemical Co. 1938-40; U.S. Army 1940-46; Chemical Eng., Dow Chemical Co. 1946-48, Dir. 1948-, Treas. 1949-59, Vice-Pres. 1955, mem. Exec. Cttee. 1957, Chair. Finance Cttee. 1959-, Chair. Board of Dirs. 1960-77; fmr. Pres. Synthetic Organic Chemical Mfrs.' Assen.; fmr. Chair. Mfg. Chemists' Assen.; Vice-Pres. United Presbyterian Church in U.S.A. Inc.; Chair. Export Expansion Council, U.S. Dept. of Commerce 1966-73; Chair. Advisory Council on Japan-U.S. Econ. Relations; mem. Int. Advisory Council Chase Manhattan Bank; Dir. Carrier Corpn., Eaton Corpn., Dundee Cement Co.; mem. U.S. Comm. UNESCO 1967-70; mem. Council, Rockefeller Univ.; Dr. h.c. (Cen. Mich. Univ., Albion Coll.); President's E Award for Export Services 1971, Soc. Chem. Industry Medal 1974, Silver Tower Award (Korea) 1976. *Address:* Dow Chemical Co., Midland, Mich. 48640 (Office); P.O. Box 226, Midland, Mich. 48640, U.S.A. (Home).

GERSTENBERG, Richard C.; American motor executive; b. 24 Nov. 1909, Little Falls, N.Y.; m. Evelyn Hitchingham; one s. one d.; ed. Univ. of Michigan; joined Gen. Motors Corpn. 1932, Asst. Comptroller 1949, Treas. 1956, Vice-Pres. in charge of Financial Staff 1960, in charge of Finance 1967, mem. Board of Dirs. Nov. 1967-, Vice-Chair. of Board and Chair. Finance Cttee. April 1970-71, Chair. and Chief Exec. Officer 1972-74; Dir. of several Gen. Motors subsidiaries including Gen. Motors Acceptance Corpn. and Motors Insurance Corpn.; mem. Visiting Cttee. Harvard Business School and Univ. of Mich. Graduate School of Business Admin.; mem. numerous civic and community orgs. *Address:* 484 Pierce Street, Birmingham, Mich. 48011 (Office); 80 Cranbrook Road, Bloomfield Hills, Mich. 48013, U.S.A. (Home).

GERSTENMAIER, Eugen Karl Albrecht, D. THEOL.; German politician and theologian; b. 25 Aug. 1906, Kirchheim-Teck; s. of Albrecht Gerstenmaier and Albertine Lauffer; m. Brigitte von Schmidt 1941; two s. one d.; ed. Univs. of Tübingen, Zürich and Rostock. Privatdozent Berlin Univ. 1938; Prof. staff Foreign Section, Evangelical Church; took part 20th July Plot 1944, imprisoned, released by Allies 1945, organized relief work of the Evangelische Kirch Deutschlands 1945; mem. Synod 1945-73; mem. Bundestag 1949-69, Pres. 1954-69, mem. Council of Europe 1950; Vice-Pres. CDU 1955-69, Pres. Deutsche-Afrika Gesellschaft 1971, Evangelisches Siedlungswerk in Deutschland, Deutsche Sozialpolitische Gesellschaft; several hon. degrees. *Publications:* Die Kirche und die Schöpfung 1937, Hilfe für Deutschland 1946, Die Evangelische Kirche und ihre Sozialpolitik 1952, Reden und Aufsätze (Vol. 1 1956, Vol. 2 1961), Neuer Nationalismus? 1965. *Address:* 5486 Oberwinter, Rheinhöhenweg 90, Federal Republic of Germany. *Telephone:* 02228/285.

GESTRIN, (Lars Olof) Kristian, B.L.; Finnish lawyer and politician; b. 10 April 1929, Helsinki; s. of Lars Gestrin and Mary Cabell; m. Monica Eddina Furuhjelm 1962; one s. two d.; ed. Helsinki Univ.; Lawyer, Ane Gyllenberg Banking Co. 1954-65, mem. Board 1958-78; mem. Parl. 1962-79; Chair. Swedish People's Party 1973-74; Minister of Defence 1970-71, 1972-74, for Nordic Co-operation 1970-71, 1975-77, of Trade and Industry 1974-75, of Justice 1975-77, of Educ. and in Ministry of Interior 1977-78; mem. Nordic Council 1975; Man. Dir. Helsinki Savings Bank 1979-. *Leisure interest:* literature. *Address:* Tammitie 10, Helsinki 33, Finland (Home). *Telephone:* 644 121 (Office); 484 816 (Home).

GEVERS, Baron Willem J. G.; Netherlands diplomatist (retd.); b. 16 Jan. 1911; s. of late Baron W. A. F. Gevers; m.; two s. one d.; ed. Univ. of Leyden; entered Netherlands Diplomatic Service 1937; served in Warsaw, The Hague, Madrid, Rome and London 1937-54; Envoy, later Amb. to Iran 1954-60; Amb. to Israel 1960-64; Chief of Protocol and Deputy Sec.-Gen., Ministry of Foreign Affairs, The Hague 1964-70; Amb. to U.K. 1971-76, also accred. to Iceland;

retd. 1976; Order of Netherlands Lion, Order of Orange-Nassau and various foreign decorations. *Address:* c/o Ministry of Foreign Affairs, The Hague, Netherlands.

GHAFFARI, Abolghassem, D.SC., PH.D.; Iranian mathematician; b. 1909, Teheran; s. of Hossein Ghaffari and Massoumeh Shahpouri; m. Mitra Meshkati 1967; two d.; ed. Darolfonoun School, Teheran, and Univs. of Nancy, Paris, London and Oxford; Assoc. Prof. Teheran Univ. 1937-42, Prof. of Math. 1942-; Math. Research Asst. King's Coll. London 1947-48; Research Fellow, Harvard 1950-51, Research Assoc. Princeton 1951-52; mem. Inst. for Advanced Study, Princeton 1951-52; Senior mathematician, Nat. Bureau of Standards, Washington, D.C. 1956-57; Aeronautical research scientist 1957-64; Aerospace scientist NASA, Goddard Space Flight Center, Greenbelt, Md. 1964-; Professorial Lecturer in Mathematics and Statistics, American Univ. Washington, D.C. 1958-62, and other American Univs.; mem. American, French and London Mathematical Socs.; American Astronomical Soc., Philosophical Soc. of Washington; Fellow, New York Acad. of Sciences 1961 and Washington Acad. of Sciences 1963; American Assen. for Advancement of Science 1965; Orders of Homayoun, Danesh (1st class) and Sepass (1st class), U.S. Special Apollo Achievement Award. *Publications:* Sur l'équation fonctionnelle de Chapman-Kolmogoroff 1936, The Hodograph Method in Gas Dynamics 1950. *Address:* 5420 Goldsboro Road, Bethesda, Md. 20034, U.S.A. *Telephone:* 301-229-8975.

GHAIDAN, Gen. Saadoun; Iraqi army officer and politician; b. 1930; m. five c.; ed. secondary educ. in Aana and Military Coll.; commissioned 2nd Lieut. 1953; Commdr. Repub. Body-Guard Forces 1968; Gen. commanding Baghdad Forces 1969; mem. Revolutionary Command Council 1968-; Minister of the Interior 1970-74, of Communications 1974-. *Address:* Ministry of Communications, Baghdad, Iraq. *Telephone:* 7766041.

GHALEB, Mohamed Mourad; Egyptian diplomatist; b. 1 April 1922, Cairo; m. Shoukreya Ali Mohamed 1953; two d. Under-Sec. Foreign Affairs Cairo 1959-60; Amb. to Congo Repub. (Léopoldville) 1960, to U.S.S.R. 1961-71; Minister of State for Foreign Affairs 1971-72; Minister of Foreign Affairs Jan.-Sept. 1972, of Information 1973-74; Amb. to Yugoslavia 1974-77 (resigned). *Leisure interests:* swimming, tennis, reading, camping. *Address:* 78 El Nil Street, Gueza, Cairo, Egypt.

GHANEM, Gen. Iskander A.; Lebanese army officer; b. 5 June 1913, Saghbine; s. of Assaad Ghanem and Marie Khoury; m. Laurice Khoury 1941; three s.; ed. Coll. du Sacré Coeur, Mil. Acad., Homs, and Gen. Staff Coll., Leavenworth, Kansas, U.S.A.; promoted to rank of Capt. in Lebanese Army 1945; Artillery Battalion Commdr., Artillery Inspector 1947-58; Lt.-Col. 1953, Col. 1959; Deputy Chief of Staff 1959-66; Brig. 1964; Commdr. Northern Region 1966; Armed Forces Attaché, Washington D.C. 1966-67; Head Mil. Court 1967; Commdr. Beirut Region 1967-68, 1968-69 (retd.); C.-in-C. Lebanese Army 1971-75, on leave of absence Sept. 1975-; Gen. 1971; Minister of Hydro-electric Resources and Defence May-June 1975; has attended various mil. tours in Lebanon and abroad; War Medal, Lebanese Merit Medal, Cedars Medal of High Ranking Officers, The Highest Mil. Cedars Medal, French Proficiency Medal, Portuguese Proficiency Medal, and several other decorations. *Leisure interests:* reading, walking, hunting. *Address:* Mar Tagla, Hazmiyé, Lebanon.

GHANEM, Ismail, D. en D.; Egyptian lawyer and politician; b. 24 May 1924, Alexandria; m. 1st Moyna Kathleen McGrath 1951 (deceased); m. 2nd Martje Schotanus 1959; four c.; ed. Alexandria Univ., Faculté de Droit, Paris and Inst. of Comparative Law, New York Univ.; mem. staff, Faculty of Law, Alexandria Univ. and Ain Shams Univ. 1951-; Dean Faculty of Law, Arab Univ. of Beirut, Lebanon 1962-63; Dean, Faculty of Law, Ain Shams Univ. 1966-68, Vice-Rector 1968-70, Rector 1971-74; Perm. Del. to UNESCO, Paris 1970-71; Minister of Culture May-Sept. 1971, of Higher Educ. and Scientific Research 1974-75; mem. Exec. Board, Cairo Governorate; mem. Board Acad. for Scientific Research; Chair. Council for the Social Sciences 1971. *Publications:* Le droit du travail 1962, La vente 1963, Le droit subjectif 1963, all in Arabic; Les droits réels principaux, 2 vols., 1962, La théorie générale des obligations 1966-67. *Address:* c/o Ministry of Higher Education, Cairo, Egypt.

GHANEM, Mohamed Hafez, PH.D.; Egyptian lawyer and government official; b. 28 Sept. 1925; m. Jouman M. Gaafar 1956; two s. one d.; ed. Cairo Univ. and Univ. de Paris; Lecturer, Faculty of Law, Alexandria Univ. 1949; Prof. of Public Int. Law and Vice-Dean, Faculty of Law, Ain Shams Univ. 1960-68; Minister of Tourism 1968-69, of Educ. 1969-71; Sec.-Gen. Arab Socialist Union 1973-75; Deputy Prime Minister 1975-, Minister of Higher Educ. 1975-76, for Social Devt. and Services 1976-; Head of Ministerial Cttee. for Local Govt. 1976-; Deputy Prime Minister, Minister for Sudan and for Council Affairs 1977-78; Attorney, Legal and Econ. Consultant and Prof. of Public Int. Law, Ain Shams Univ. 1978-; Pres. Egyptian Soc. of Int. Law; mem. Arbitration, Conciliation and Mediation Comm. of Org. of African Unity 1966-71; mem. Legal Consultative Comm. for Afro-Asian Countries 1958-65; State Prize for best publ. in field of Int. Law and Political Science 1960. *Publications:* Public International Law (Arabic) 1964, International Organization 1967, International Responsibility 1972. *Leisure interests:* fishing, reading. *Address:* 26 Mahmoud Bassiouny, Cairo (Office); 3 Sharia El Bergass, Garden City, Cairo, Egypt (Home). *Telephone:* 970431, 976572, 972501 (Office); 980987, 988030 (Home).

GHENIMA, Mohamed; Tunisian banker; b. 15 May 1929, Akouda; m. Anissa Smida 1961; three c. mem. Destour Socialist Party; fmr. Asst. Dir.-Gen. Nat. Bank of Tunisia, Pres., Dir.-Gen.; now Gov. Central Bank of Tunisia. *Address:* Banque Centrale de Tunisie, 7 place de la Monnaie, Tunis, Tunisia.

GHERAB, Mohamed Habib; Tunisian diplomatist; b. 8 May 1926, Tunis; m. Fawzia Ladjimi 1958; one s. one d.; ed. School of Law, Paris; Amb. to Spain 1965-67; Special Adviser to Tunisian Sec. of State for Foreign Affairs 1967-69; mem. del. to XXIII Session of UN Gen. Assembly; Asst. Sec.-Gen. of UN and Dir. of Personnel March 1969-. *Address:* Offices of Personnel Services, UN Secretariat, New York, N.Y. 10017 (Office); 45 East 89th Street, New York, N.Y. 10028, U.S.A. (Home).

GHIAUROV, Nicolai; Bulgarian singer; b. 13 Sept. 1929, Velingrad; ed. Sofia Music Acad., Moscow Conservatoire; played violin, piano and clarinet from early age; debut at Sofia Opera House as Don Basilio in Barber of Seville 1955, debut in Bologna 1958, debut at La Scala, Milan as Varlaam in Boris Godunov 1959; regular appearances at La Scala, Metropolitan Opera, New York, Vienna State Opera; major roles include title role in Boris Godunov, Mephistopheles in Faust. *Address:* c/o John Coast Concerts, 1 Park Close, London S.W.1, England.

GHIKA, Nicolas; Greek painter and designer; b. 1906; s. of Adm. Alexander Hadjikyriacos and Helen Ghika; m. Barbara Warner (née Hutchinson) 1961; ed. Athens and Acad. Ranson, Paris; rep. at numerous group exhbns., museums and art galleries in Europe, U.S.A. and Australia; nineteen one-man exhbns. in Europe and U.S.A., and three retrospectives (British Council, Athens 1946, Whitechapel Gallery, London 1961, Nat. Pinacotheka, Athens 1973); has given lectures, designed décors, costumes and masks for plays and ballets, incl. Stravinsky's Persephone, Covent Garden, London 1961; Prof. School of Architecture, Athens; mem. Acad. of Athens 1972; First Prize Acad. of Athens. *Publications:* lithographs, engravings, articles on art, etc.; has illustrated books. *Address:* 27 Blomfield Road, London W.9, England; and 3 Kriezotou Street, Athens, Greece.

GHIRINGHELLI, Antonio; Italian theatre director; b. 1903, Brunello (Varese); ed. Univ. of Genoa; Dir. and eventually owner of factories; career with Teatro alla Scala, Milan 1945-; apptd. to solve problems facing theatre following the war; in less than one year theatre was rebuilt and orchestra and chorus reorganized; Toscanini inaugurated reconstructed auditorium 1946; Extraordinary Commr. Teatro alla Scala 1945-48, Supt. 1948-72; created Piccola Scala 1955; Medaglia d'Oro, City of Milan 1952, Croix de l'art et de la culture, French Govt. 1967. *Address:* c/o Teatro alla Scala, Milan, Italy.

GHIRSHMAN, Roman, D. ÈS L.; French archaeologist; b. 3 Oct. 1895, Karkov, Russia; m. Antoinette Tania Levienne 1925; ed. Sorbonne, Ecole des Hautes Etudes and Ecole du Louvre; Hon. Dir. French Archaeological Del. in Iran and Afghanistan; Hon. Prof. Univ. of Aix-en-Provence; mem. Acad. des Inscriptions et Belles Lettres; Corresp. Fellow of British Acad.; Dr. h.c. (Teheran); Commdr. Légion d'honneur, Grand Officer of Order of Tadj, Grand Croix of Order Homayoun (Iran), Medal of Freer Gallery of Art, Washington. *Publications:* Fouille de Tepe Giyan 1936, Fouilles de Sialk (2 vols.) 1938, 1939, Bégram-Histoire des Kouchans 1946, Les Chionites-Hephtalites 1948, Iran, des origines à l'Islam 1950, Bîchapour I and II 1956, 1971, Iran, Parthes et Sassanides 1962, Perse, Proto-iraniens, Mèdes, Achéménides 1963, Tchoga Zanbil I and II 1966, 1968, Terrasses sacrées de Bard-è Néchandeh et Masjid-i Solaiman 1976, L'Iran et la migration des Indo-aryens et Iraniens 1977. *Address:* 96 rue La Fontaine, 75016 Paris, France. *Telephone:* 224 80-25.

GHISSASSI, Abdellatif; Moroccan government official; b. 1937, Taza; s. of Abdelaziz and Noufissa (Kettani) Ghissassi; m. Haïtami Malika 1975; one s.; ed. Ecole Nat. des Ponts et Chaussées, Paris, Ecole Nat. de l'Aviation Civile, Paris. Teacher, Ecole Mohammedia

d'Ingenieurs 1962-72; Dir. Ministry of Public Works 1962-68, Gen. Sec. 1968-72, Minister 1972; Dir. Soc. Marocaine des Industries de Raffinage 1973-74; Minister of Commerce, Mines, Industry and Merchant Marine 1974-77, of Finance 1977-; Officier, Ordre du Merite 1972; Commdr. Ordre nat. du Merite (France) 1975; Commdr. Ordre du Merite (Mauritania) 1977. *Address:* Ministry of Finance, Rabat; 4 rue Abou Iblane, Rabat, Morocco (Home). *Telephone:* 606-61 (Office); 704-96 (Home).

GHIZIKIS, Gen. Phaidon; Greek army officer; b. 16 June 1917, Volos; widower; one s.; ed. Mil. Acad., War Coll. and Nat. Defence Coll.; Lieut.-Col. 1957, Col. 1966, Brig.-Gen. 1968, Maj.-Gen. 1969, Lieut.-Gen. 1971, Gen. 1973, Commdr. of Raiding Force, Dept. of Hellenic Army Command 1970; Deputy Commdr. of Hellenic Army Command 1971; Commdr. C Corps 1972; Commdr. of First Army 1973; Pres. of Repub. of Greece 1973-74; Knight Commdr. Royal Order of George I, Grand Cross of the Redeemer. *Address:* c/o Office of the President, Athens, Greece.

GHORBAL, Ashraf, PH.D.; Egyptian diplomatist; ed. Cairo and Harvard Univs.; joined Egyptian Del. to UN 1949; Head Egyptian Interests Section, Indian Embassy, Washington 1968-73; Press Adviser to the Pres. Feb.-Nov. 1973; Amb. to U.S.A. Nov. 1973-. *Address:* Egyptian Embassy, 2310 Decatur Place, N.W., Washington, D.C. 20008, U.S.A.

GHORRA, Edward; Lebanese diplomatist; b. 1913, Zahle; s. of Abdallah Ghorra and Linda Abou-Kkeir; m. Olgo Elkouri 1947; ed. Univ. de Saint-Joseph, Beirut; Consul-Gen., New York 1945-50, Sydney 1950-55; mem. Lebanese Del. to UN 1947-49, 1958, 1963; Alt. Rep. UN Econ. and Social Council 1948; Head Western Affairs Dept., Ministry of Foreign Affairs 1956-57, Dir. Politicial Affairs Dept. 1957-58; Amb. to U.S.S.R. 1959-63; Dir. Dept. of Lebanese Overseas, Ministry of Foreign Affairs 1963-65; Amb. to Czechoslovakia and Poland 1965-68; Perm. Rep. to UN 1968-77, concurrently Amb. to Jamaica, Rep. to Human Rights Comm. 1969-, to Social Comm. 1969-71, to Econ. and Social Council 1971-73; Vice-Pres. of UN Gen. Assembly 1968, 1974, ECOSOC 1973; Rep. to UNDP 1972-74; Chair. 1st Cttee., UN Gen. Assembly, 30th Session 1975. *Leisure interests:* golf, philately. *Address:* c/o Ministry of Foreign Affairs, Beirut, Lebanon.

GHOSH, Amalananda, M.A.; Indian archaeologist; b. 3 March 1910, Banaras; s. of U.N. Ghosh; m. Sudha De 1938; one s. one d.; ed. A.B. High School, Banaras, Queen's Coll., Banaras, and Univs. of Allahabad and London; Asst. Supt., Archaeological Survey of India 1937-44, Supt. 1944-50; Deputy Dir.-Gen. for Exploration, Archaeological Survey of India 1950-52; Joint Dir.-Gen. of Archaeology in India, Archaeological Survey of India 1952-53, Dir.-Gen. 1953-68; UNESCO Archaeological Consultant to Govts. of Qatar 1968, Bahrain 1968, Saudi Arabia 1969, Yemen 1970; Visiting Prof. of Indian Culture, Indonesian Univ. 1973-74; Dir. Dictionary of Indian Archaeology Project, Indian Council of Historical Research, New Delhi; Vice-Pres. Royal India, Pakistan and Ceylon Soc.; Hon. mem. Int. Congress for Prehistoric and Protohistoric Sciences; Corresp. mem. Int. Council on Museums, Int. Cttee. on Monuments, Artistic and Historical Sites and Archaeological Excavation; Hon. Corresp., Archaeological Survey of India; Fellow, Indian Inst. of Advanced Study 1968-71; Hon. Fellow, Soc. of Antiquaries of London, Deutsches Archäologisches Inst.; Award of Padma Sri 1962. *Leisure interest:* reading fiction. *Address:* Bankuli, Gurgaon Road, New Delhi 110037, India.

GHOSH, Tushar Kanti, B.A.; Indian journalist; b. 21 Sept. 1898, Calcutta; s. of Mahatma Sisir Kumar Ghosh and Sm. Kumudini Ghosh; m. 1st Tushar Kanti Ghosh 1920, 2nd Bibharani Ghosh; one s. one d.; ed. Calcutta Univ.; Editor Amrita Bazar Patrika; fmr. Pres. Indian Journalists' Assen.; Pres. Andhra Journalists' Conf., Guntur 1937; All-India Printers' Conf., Poona 1939; fmr. Pres. Indian and Eastern Newspaper Soc., All-India Newspaper Editors' Conf., Audit Bureau of Circulation, United Press of India; fmr. Vice-Pres. Int. Press Inst.; Chair, Press Trust of India; founder Jugantar, Calcutta, Northern Indian Patrika, Allahabad, Amrita (Bengali weekly), Amrita Probhat (Hindi weekly); Hon. Life mem. Commonwealth Press Union, Chair. Indian Section; mem. Exec. Cttee., Int. Press Inst.; Padma Bhusan 1964. *Leisure interest:* reading. *Address:* Patrika House, 14 Ananda Chatterjee Lane, Calcutta 3, India.

GHOUSSEIN, Talat Al-; Kuwaiti diplomatist; b. 16 May 1924; ed. American Univ. of Cairo; Foreign News Editor As-Shaab (Jaffa, Palestine) 1946-47; Controller, Arab Bank Ltd., Jaffa, Palestine 1947-48; Editor Foreign News and Dir. of English Section, Broadcasting Station of Jordan 1948-49; Dir. Press and Public Information, Ministry of Foreign Affairs, Yemen 1949-53; Sec.-Gen. Devt. Board, Kuwait 1953-60; Deputy Private Sec. to Emir of Kuwait 1960-61; Minister-Counsellor, Kuwait Embassy, Washington 1962-63, Amb. of Kuwait to U.S.A. 1963-70, to Morocco 1970-71, to Japan 1971-78, also accred. to Australia, Indonesia, and Malaysia. *Address:* c/o Ministry of Foreign Affairs, Kuwait City, Kuwait.

GHOZALI, Sid Ahmed; Algerian petroleum executive; b. 31 March 1937, Marnia; ed. Ecole des Ponts et Chaussées, Paris; fmr. Dir. of Energy, Ministry of Industry and Energy; Adviser, Ministry of the Economy 1964; Under-Sec., Ministry of Public Works 1964-65; Pres., Dir.-Gen. Société nationale pour la recherche, la production, le transport, la transformation et la commercialisation des hydrocarbures (SONATRACH) 1966-; Minister of Hydraulics March 1979-; mem. Org. technique de mise en valeur des richesses du sous-sol saharien 1962. *Address:* SONATRACH, Immeuble Maurétania, Agha, Algiers, Algeria.

GIACCONI, Riccardo, PH.D.; American astrophysicist; b. 6 Oct. 1931, Genoa; s. of Antonio Giacconi and Elsa Giacconi Canni; m. Mirella Manaira 1957; one s. two d.; ed. Univ. of Milan; Asst. Prof. of Physics, Univ. of Milan 1954-56; Research Assoc. Indiana Univ. 1956-58, Princeton Univ., 1958-59; joined American Science & Eng. Inc. 1959-73, mem. Board of Dirs. 1966, Exec. Vice-Pres. 1969-73; Assoc. Harvard Coll. Observatory 1970-72; Assoc. Dir. Center for Astrophysics 1973-; Prof. of Astronomy, Harvard Univ. 1973-; mem. Assen. of Univs. for Research in Astronomy 1971-75; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, A.A.A.S., American Astron. Soc., American Physical Soc. (Fellow 1976), Italian Physical Soc., Int. Astron. Union; mem. various scientific panels etc.; Fulbright Fellow 1956-58; Helen B. Warner Award, American Astron. Soc. 1966, Como Prize, Italian Physical Soc. 1967, Röntgen Prize in astrophysics, Physikalisch-Medizinische Gesellschaft, Würzburg 1971, NASA Medal for Exceptional Scientific Achievement, NASA Distinguished Public Service Award 1972, Space Science Award, A.I.A.A. 1976. *Publications:* X-ray Astronomy (co-editor) 1974, Physics and Astrophysics of Neutron Stars and Black Holes (co-editor) 1978, also numerous articles in professional journals. *Leisure interests:* skiing, scuba diving, painting. *Address:* 60 Garden Street, Cambridge, Mass. 02138 (Office); 26 Craigie Street, Cambridge Mass. 02138, U.S.A. (Home). *Telephone:* 617-495-7207 (Office); 617-492-7289 (Home).

GIAEVER, Ivar, PH.D.; American physicist; b. 5 April 1929, Bergen, Norway; s. of John A. Giaever and Gudrun M. Skaarud; m. Inger Skramstad 1952; one s. three d.; ed. Norwegian Inst. of Technology, Rensselaer Polytechnical Inst., N.Y.; Norwegian Army 1952-53; Patent Examiner, Norwegian Patent Office 1953-54; Mechanical Engineer, Canadian Gen. Electric Co. 1954-56; Applied Mathematician, Gen. Electric Co. 1956-58; Physicist, Gen. Electric Research and Devt. Center 1958-; Oliver E. Buckley Prize 1965, Guggenheim Fellowship 1970, Nobel Prize for Physics 1973. *Publications in Physics Review Letters:* Energy Gap in Superconductors Measured by Electron Tunneling 1960, Study of Superconductors by Electron Tunneling 1961, Detection of the AC Josephson Effect 1965, Magnetic Coupling Between Two Adjacent Superconductors 1965, The Antibody-Antigen Reaction: A Visual Observation 1973. *Leisure interests:* skiing, sailing, tennis, hiking, camping. *Address:* Research and Development Center, P.O. Box 8, Schenectady, N.Y. 12301 (Office); 2080 Van Antwerp Road, Schenectady, N.Y. 12309, U.S.A. (Home). *Telephone:* 518-FR4-9708 (Home).

GIAMBRUNO, Dr. Carlos, LL.D., D.SC.S., J.D.; Uruguayan diplomatist; b. 3 Sept. 1928, Montevideo; m.; three c.; ed. Univs. of Montevideo and Rome; Admin. Official, Library of the Cabildo and later Dept. of Diplomatic Treaties and Archives, Ministry of Foreign Affairs 1944-48; Sec., Legation to the Holy See 1948-52; Consul, Civitavecchia, Italy, in charge of emigration plans carried out in collaboration with the Intergovernmental Cttee. for European Migration 1952-63; Minister Counsellor, Italy 1963-68, acted ■ Chargé d'affaires ad interim and Perm. Rep. to FAO; Dir. Dept. of Foreign Policy, Ministry of Foreign Affairs 1969-70, Dir. Dept. of Int. Orgs. 1970-72; Perm. Rep. and Chair. Third Cttee. (Social, Humanitarian and Cultural), UN 1972-78; served as Pres. of the nat. comm. for study of the boundary problems in the Rio de le Plata and ■ Del. to several sessions of UN Gen. Assembly and to the OAS; fmrly. Prof. of Int. Public Law, Univ. de Montevideo, Mil. Inst. for Higher Studies and Command School, Uruguayan Air Force. *Publications:* several works in the fields of law and diplomacy. *Address:* Ministerio de Relaciones Exteriores, Montevideo, Uruguay.

GIAP, Gen. Vo Nguyen (see Vo Nguyen Giap, Gen.).

GIAUQUE, William Francis, B.S., PH.D.; American chemist; b. 12 May 1895, Niagara Falls, Ont., Canada; s. of William Tecumseh Sherman Giauque and Isabella Jane (Duncan) Giauque; m. Muriel F. Ashley 1932; two s.; ed. Univ. of Calif.; Instructor in Chem., Univ. of California 1922-27, Asst. Prof. 1927-30, Assoc. Prof. 1930-34, Prof. of Chem. 1934-77 (Emer. 1962); mem. Nat. Acad. of Sciences 1936-, American Acad. of Arts and Sciences 1950-; mem. American Philosophical Soc. 1940; awarded Chandler Medal of Columbia Univ. 1936 for invention and first application of adiabatic demagnetization method of producing temperatures below 1° absolute, Elliott Cresson Medal of Franklin Inst. 1937; discovered with H.L. Johnston, oxygen isotopes 17 and 18 by means of absorption of sunlight in earth's atmosphere; Hon. D.Sc. (Columbia), Hon. LL.D. (Calif.); Nobel Prize for Chemistry 1949; Willard Gibbs Medal 1951, Gilbert N. Lewis Medal 1955. *Address:* Department of Chemistry, University of California, Berkeley, Calif. 94720, U.S.A.

GIBBERD, Sir Frederick, Kt., C.B.E.; British architect; b. 7 Jan. 1908; ed. King Henry VIII School, Coventry; Architectural town-planning and landscape design practice in London 1930-, Harlow New Town 1956; fmr. Principal, Architectural Assn. School of Architecture; mem. Royal Acad.; Fellow, Royal Inst. of British Architects, Soc. of Industrial Artists, Royal Town Planning Inst., Inst. Landscape Architects; fmr. mem. Royal Fine Art comm.; Architect-Planner Harlow New Town 1947-; Planning Consultant Nuneaton 1948-, Doncaster and Hull 1954-, Leamington Spa 1957–, Swindon 1957-, Santa Teresa, Venezuela 1959-; Gold Medal of Royal Town Planning Inst. for outstanding achievement in the field of town and country planning 1978. *Works include:* Somerford Estate (Hackney), Scunthorpe steel works, technical colls. at Hull, Huddersfield and numerous schools, London Airport, Belfast Hospital, Nat. Dock Labour Board offices (London), civic centres for Doncaster, Harlow, Hull, Leamington Spa and St. Albans, nuclear power stations at Hinkley Point and Sizewell; landscape design includes Queen's Gardens, Hull, reservoirs at Derwent, Kielder and Tryweryn and potash mine at Boulby; new monastery, Douai Abbey; winner of open competitions for Metropolitan Roman Catholic Cathedral, Liverpool 1960 (opened 1967), mosque, Regent's Park, London 1969, Inter-Continental Hotel, Arundel Great Court and Coutts Bank, London. *Publications:* The Architecture of England 1938, Town Design 1953, Metropolitan Cathedral of Christ the King 1968. *Address:* 8 Percy Street, London, W.1. (Office); The House, Marsh Lane, Old Harlow, Essex, England (Home).

GIBBONS, James; Irish politician; b. 3 Aug. 1924, Kilkenny; s. of Martin Gibbons and Agnes Bowe; m. Margaret O'Neill 1950; five s. six d.; ed. Univ. Coll., Dublin; mem. Kilkenny County Council 1954-57; Parl. Sec. to Minister of Finance 1965-69; Minister of Defence 1969-70, of Agric. 1970-73, July 1977-; mem. European Parl. 1973-77; mem. Fianna Fáil. *Address:* Ministry of Agriculture, Dublin; Dunmore, Ballyfoyle, Co. Kilkenny, Ireland (Home).

GIBBONS, John David, B.A., J.P., M.B.I.M.; British (Bermudan) politician; s. of the late Edmund G. Gibbons; m. 1958; three s. one d.; ed. Saltus Grammar School, Hotchkiss School, Lakeville, Conn., U.S.A., Harvard Univ., U.S.A.; Government service in Bermuda with Social Welfare Board 1948-58, Board of Educ. 1958-60, Dept. of Educ. 1956-59; mem. Governing Body and later Chair. Bermuda Tech. Inst. 1956-70; Trade Devt. Board 1960-74; Chair. Board of Educ. 1973-74; Minister of Health and Welfare 1974-75, of Finance 1975-; Prime Minister Aug. 1977-. *Leisure interests:* tennis, golf, skiing, swimming. *Address:* The Cabinet Building, Front Street, Hamilton, Bermuda. *Telephone:* 2-5501.

GIBBONS, Stella Dorothea, F.R.S.L.; British poet and novelist; b. 5 Jan. 1902, London; d. of C.J.P.T. Gibbons, M.D. and Maude Phoebe Standish Gibbons; m. Allan Charles Webb 1931 (died 1959); one d.; ed. North London Collegiate School and Univ. Coll., London; Journalist 1922-33, British United Press, Evening Standard, The Lady. *Publications:* The Mountain Beast (poems) 1930, Cold Comfort Farm (Femina Vie Heureuse Prize 1933) 1932, Bassett 1934, The Priestess (poems) 1934, Enbury Heath 1935, The Untidy Gnome 1935, Miss Linsey and Pa 1936, Roaring Tower (short stories) 1937, Nightingale Wood 1938, The Lowland Venus (poems) 1938, My American 1939, Christmas at Cold Comfort Farm (short stories) 1940, The Rich House 1941, Ticky 1943, The Bachelor 1944, Westwood 1946, The Matchmaker 1949, Conference at Cold Comfort Farm 1949, Collected Poems 1950, The Swiss Summer 1951, Fort of the Bear 1953, Beside the Pearly Water (short stories) 1954, The Shadow of a Sorcerer 1955, Here Be Dragons 1956, White Sand and Grey Sand 1958, A Pink Front Door 1959, The Weather at Tregulla 1962, The Wolves were in the Sledge 1964, The Charmers 1965, Starlight 1967, The Snow Woman 1969, The Woods in Winter 1970. *Leisure interests:* listening to classical music, reading. *Address:* 19 Oakeshott Avenue, Highgate, London, N.6, England. *Telephone:* 01-340 2566.

GIBBS, Rt. Hon. Sir Humphrey Vicary, P.C., G.C.V.O., K.C.M.G., K.ST.J., O.B.E.; British farmer and fmr. governor; b. 22 Nov. 1902; m. Dame Molly Peel Nelson 1934, five s.; ed. Eton Coll. and Trinity Coll., Cambridge; Farmer, Bulawayo 1928-; Gov. Rhodesia (fmrly. S. Rhodesia) 1960-69; Acting Gov.-Gen. Fed. of Rhodesia and Nyasaland 1963; Dir. of cos.; Hon. LL.D. (Birmingham), Hon. D.C.L. (E. Anglia). *Address:* Private Bag 5583W, Bulawayo; Bonisa Farm, Redbank, Nyamandhlovu, Zimbabwe Rhodesia (Home). *Telephone:* 69002 Bulawayo.

GIBBS, Lancelot Richard; Guyanese cricketer and sports organizer; b. 29 Sept. 1934; s. of Ebenezer and Marjorie Gretna (Archer) Gibbs; m. Joy Roslyn Margarete Rogers 1963; one s. one d.; ed. St. Ambrose Anglican Primary School and Day Commercial Standard High School; Right-arm off-spin bowler; first played for British Guyana v M.C.C. at Bourda 1954; played for West Indies in 79 Test Matches 1958-76; played for Warwickshire 1968-73, S. Australia 1970; has taken 309 Test wickets (world record); has taken over 1,000 wickets in First Class Cricket; has taken 103 wickets against Australia and 100 wickets against England (world record); now a sports organizer; several decorations. *Leisure interests:* reading, all sport. *Address:* 276 Republic Park, Peter's Hall, E.B.D., Guyana.

GIBBS, Oswald Moxley, C.M.G., B.SC.; Grenadian diplomatist; b. 15 Oct. 1927, Snug Corner; s. of Michael 'McKie' Gibbs and Emelda Mary Cobb; m. Dearest Agatha Mitchell 1955; two s. two d.; ed. Grenada Boys' Secondary School and City of London Coll.; Solicitor's Clerk 1948-51; Refinery Operator, Curaçao 1951-55; Civil Servant 1955-57; Welfare Officer, E. Caribbean Comm., London 1965-67, Trade Sec. 1967-72, Deputy Commr. 1972-73, Acting Commr. 1973-74; High Commr. in U.K. (also accred. to European Communities) 1974-78; Trustee Commonwealth Foundation. *Leisure interests:* photography, coin collecting, fishing. *Address:* c/o Ministry for External Affairs, St. George's, Grenada.

GIBBS, R. Darnley, M.SC., PH.D.; British botanist; b. 30 June 1904, Ryde, Isle of Wight; s. of Frank Ernest Gibbs and Edith Beatrice Wills; m. Avis Patricia Cook 1961; one s.; ed. Univ. Coll., Southampton and McGill Univ.; mem. McGill Univ. staff, Demonstrator to Assoc. Prof. of Botany 1925-55, Prof. of Botany 1955-65, Macdonald Prof. of Botany 1965-71, Prof. Emer. 1971-; fmr. Pres. Fraser-Hickson Inst. Montreal; Fellow, Royal Soc. of Canada (Pres. Section V 1953-54); Fellow, Linnean Soc. of London. *Publications:* A Modern Biology (with E.J. Holmes) 1937, Botany, An Evolutionary Approach 1950, Chemotaxonomy of Flowering Plants 1974. *Leisure interest:* gardening. *Address:* 32 Orchards Way, Southampton, SO2 1RE, England. *Telephone:* 554452.

GIBBS, Gen. Sir Roland Christopher, G.C.B., C.B.E., D.S.O., M.C.; British army officer; b. 22 June 1921, Barrow Gurney; s. of Guy Melvil Gibbs and Margaret Olivia St. John; m. Davinia Jean Merry 1955; two s. one d.; ed. Eton Coll. and Royal Mil. Coll., Sandhurst; commissioned into 60th Rifles 1940; served in N. Africa, Italy, N.W. Europe 1939-45; commanded Parachute Bn. 1960-62; British Army Staff, Washington, D.C. 1962-63; commanded Parachute Brigade 1963-66; Chief of Staff, HQ Middle East 1966-67; Commdr. British Forces, Gulf 1969-71, British First Corps 1972-74; C.-in-C. U.K. Land Forces 1974-76; Chief of Gen. Staff 1976-79. *Leisure interests:* pictures, country pursuits. *Address:* Patney Rectory, Devizes, Wilts. SN10 3QZ, England.

GIBBS, Timothy Durant; Rhodesian farmer and politician; b. 27 Dec. 1938, Nyamandhlovu; s. of Sir Humphrey Gibbs (*q.v.*); ed. Ruzawi, Marandellas, Diocesan Coll., Rondebosch, S. Africa; Pres. Matabeleland branch, Rhodesian Nat. Farmers' Union (RNFU) 1969-71; Dir. of cos.; Pres. The Rhodesia Party 1974-76. *Address:* Private Bag W. 5588, Bulawayo; Bonisa Farm, Redbank, Nyamandhlovu, Zimbabwe Rhodesia (Home).

GIBBS-SMITH, Charles Harvard, M.A., F.R.S.A.; British aeronautical historian; b. 22 March 1909, Teddington; s. of late Dr. Edward Gibbs-Smith; m. Lavinia Snelling 1975; ed. Westminster School, Harvard Univ., U.S.A. Asst. Keeper, Victoria and Albert Museum 1932-39, Keeper of Public Relations and Educ. Dept. 1947-71, Keeper Emer. 1971-; loaned to Ministry of Information 1939, Asst. Dir. of Photograph Div. 1943, Dir. 1945; First Lindbergh Prof. of Aero-Space History, Smithsonian Inst., Washington, D.C. 1978-; organized photograph libraries of Ministry of Information; Press Censorship; Admiralty Press Div.; U.S.A. Office of War Information, London; Radio Times-Hulton Picture Library; served

in Royal Observer Corps 1941-44, Hon. mem. 1945; Hon. mem. Royal Photographic Soc. 1973; Hon. Companion and Cttee. mem. History Group, Royal Aeronautical Soc.; mem. Soc. for Pyschical Research; mem. Bd. of Electors, Int. Aerospace Hall of Fame 1975; Hon. Fellow R.C.A. 1969; Research Fellow Science Museum 1976–; Fellow of the Museums Assn. 1952; Fellow Coll. of Psychic Studies; Chevalier, Order of Dannebrog (Denmark). *Publications:* Victoria and Albert Museum Costume Bibliography 1936, Basic Aircraft Recognition 1942, German Aircraft 1943, Aircraft Recognition Manual 1944, Ballooning 1948, The Great Exhibition of 1851 1950, Air League Recognition Manual 1952, A History of Flying 1953, Balloons 1956, The Fashionable Lady in the 19th Century 1960, The Invention of the Aeroplane 1966, The Bayeux Tapestry 1973, The Art of Observation 1973, Pioneers of the Aeroplane 1975, Early Flying Machines 1975, Science Museums Monographs: The Aeroplane: an Historical Survey 1960, Sir George Cayley's Aeronautics 1962, The Wright Brothers 1963, The World's First Flights 1965, A Directory and Nomenclature of the First Aeroplanes 1966, Leonardo da Vinci's Aeronautics 1967, Clément Ader, His Flight Claims 1967, A Brief History of Flying 1968, The Rebirth of European Aviation 1974; novels: Operation Caroline 1953, Yankee Poodle 1955, Escape and Be Secret 1957; numerous articles and broadcasts on topics including art, crime and aeronautical history. *Leisure interests:* parapsychology, travel, fencing, classification. *Address:* c/o Science Museum, London, S.W.7, England.

GIBIŃSKI, Kornel, PROF.DR.MED.; Polish physician; b. 7 Sept. 1915, Cracow; m. Wanda Ostrowska 1941; two s. two d.; ed. Medical Dept. of Jagellonian Univ., Cracow; held in Gross Rosen concentration camp during World War II; Assoc., 3rd Clinic of Internal Diseases in Wrocław 1945-49, Docent 1949-54, Prof. of Clinical Medicine 1954-; Organizer and Dir. Inst. of Internal Medicine, Silesian Medical Acad. in Katowice 1954-; Corresp. mem. Polish Acad. of Sciences 1964-73, mem. 1973-, Presidium mem. and Chair. Cttee. of Experimental Therapy, Pres. Polish Soc. of Gastroenterology; mem. Presidium European Soc. of Digestive Endoscopy; mem. Int. Soc. of Internal Medicine, New York Acad. of Sciences, Polish Soc. of Physicians, Polish Soc. of Internal Medicine; affil. mem. Royal Soc. of Medicine; Hon. mem. Purkinye Soc. (Czechoslovakia), Gastroenterology Soc. of G.D.R.; Dr. h.c. (Poznań Medical Acad.) 1975, (Wrocław Medical Acad.) 1976; Gold Cross of Merit 1955, Knight's Cross, Order of Polonia Restituta 1958, Officer's Cross 1964, Order of Banner of Labour, 2nd Class 1974, Orders of Builders of People's Poland 1974. *Publications:* over 230, mainly on physiology and gastroenterology, many in translations. *Address:* Ul. Zawadzkiego 63A, 40-128 Katowice, Poland. *Telephone:* 58-43-17.

GIBLIN, E. Burke, LL.B., M.B.A., C.P.A.; American business executive; b. 23 Dec. 1913, Brooklyn; m.; c.; ed. St. John's Univ. and Harvard Business School and Boston Univ. School of Law; joined Haskins & Sells (Public Accountants), New York 1937; U.S. Navy 1940-46; with General Foods Corpn. 1946-67, successively in marketing, financial and gen. man. positions, and Exec. Vice-Pres. for operations and business devt.; admitted to Mass. Bar 1951; Pres. and Dir. Warner-Lambert Co. 1967-73, Chair. and Chief Exec. Officer 1973-78; mem. of the Board, Fidelity Union Trust Co.; dir. numerous educ. and philanthropic insts. *Address:* c/o Warner Lambert Co., 201 Tabor Road, Morris Plains, N.J. 07950, U.S.A.

GIBRAT, Robert Pierre Louis, LIC.ÈS SC., DR.EN DROIT; French engineer; b. 23 March 1904, Lorient, Morbihan; s. of Jean Gibrat and Jeanne Delebecke; m. Iseult Viel 1928; three d.; ed. Ecole Polytechnique, Ecole Nat. Supérieure des Mines and the Sorbonne. Dir. of Electricity, Ministry of Public Works 1940-42; Sec. of State for Communications March-Sept. 1942; Consulting Engineer Electricité de France (Tidal Energy Plants) 1942-68; Dir.-Gen. Groupement pour l'Industrie Atomique 1955-; Chair. Soc. pour l'Industrie Atomique, SOCIA; Consulting Engineer Centrales Thermiques 1942-; fmr. Pres. Soc. Française des Electriciens; mem. Int. Inst. of Statistics; Fellow, Int. Econometric Soc.; mem. Scientific Cttee., Commissariat Energie Atomique; fmr. Pres. Soc. des Ingénieurs Civils; fmr. Pres. Assen. technique pour l'Energie nucléaire; fmr. Pres. Scientific and Technical Cttee. EURATOM; fmr. Pres. Soc. de Statistique de Paris, fmr. Pres. Soc. de Météorologie de France; Pres. French branch, American Nuclear Soc., Hon. Chair. World Fed. Eng. Orgs. 1976. *Publications:* Les inégalités économiques, L'énergie des marées. *Leisure interests:* languages, archaeology. *Address:* Creusot Loire, 42 rue d'Anjou, 75008 Paris (Office); 101 ave. de Villiers, 75017 Paris, France (Home). *Telephone:* 924-9870 (Home).

GIBSON, Baron (Life Peer), cr. 1975, of Penn's Rocks in the County of East Sussex; **Richard Patrick Tallentyre Gibson;** British company director; b. 5 Feb. 1916, London; s. of Thornley Carbutt Gibson and Elizabeth Anne Augusta Wetzlar-Coit; m. Elisabeth Dione Pearson 1945; four s.; ed. Eton Coll., Magdalen Coll., Oxford. Vice-Chair. Westminster Press Ltd. 1953-76; Chair. Pearson Longman Ltd. 1967-; Deputy Chair. S. Pearson & Son Ltd. 1969-75, Exec. Deputy Chair. 1975-77, Chair. 1978-79; Chair. Arts Council of Great Britain 1972-77, Financial Times Ltd. 1975-78, Nat. Trust 1977- (mem. 1966-). *Leisure interests:* music, architecture, gardening. *Address:* Penn's Rocks, Groombridge, Sussex; and 4 Swan Walk, London, S.W.3, England. *Telephone:* Groombridge 244; 01-351 0344.

GIBSON, Sir Alexander Drummond, Kt., C.B.E., L.R.A.M., A.R.C.M., A.R.C.O.; British conductor; b. 11 Feb. 1926, Motherwell; s. of James McClure Gibson and Wilhelmina Gibson; m. Ann Veronica Waggett; three s. one d.; ed. Dalziel School, Glasgow Univ., Royal Scottish Acad. of Music, Royal Coll. of Music, London, Mozarteum, Salzburg, and Accad. Chigiano, Siena. Royal Corps of Signals 1944-48; studied Royal Coll. of Music 1948-51; Asst. Conductor BBC Scottish Orchestra 1952-54; Staff Conductor Sadler's Wells Opera 1954-56; Musical Dir. 1957-59; Guest Conductor Royal Opera House, Covent Garden 1957-58; Musical Dir. and Principal Conductor Scottish Nat. Orchestra 1959-; Founder, Artistic Dir. and Principal Conductor of Scottish Opera 1962-; Guest Conductor all major symphony orchestras of Great Britain and many in Europe and America; Hon. LL.D. (Aberdeen and Stirling), Hon. D.Mus. (Glasgow), Hon. R.A.M.; Sibelius Medal 1978. *Address:* 15 Cleveden Gardens, Glasgow, G12 0PU, Scotland *Telephone:* 041-339 6668.

GIBSON, Col. the Hon. Colin William George, P.C. (Can.), Q.C., M.C., V.D.; Canadian jurist; b. 16 Feb. 1891, Hamilton, Ont.; s. of Hon. Sir John and Lady Gibson; m. Florence Kerr 1917; four s.; ed. Royal Military Coll., Kingston, Osgoode Hall, Toronto; served Royal Fusiliers 1914-19; awarded Ordre de Léopold and Croix de guerre; practised Law in Hamilton, Ont.; commanded Royal Hamilton Light Infantry 1929-34, 4th Infantry Brigade 1935-38, Hamilton Garrison 1939-40; six times mem. of Canadian rifle team to Bisley; Hon. ADC to Lords Bessborough and Tweedsmuir when Govs.-Gen. of Canada; elected M.P. 1940, 1945 and 1949; Min. of Nat. Revenue 1940-45; Min. of Nat. Defence for Air 1945-46; Sec. of State of Canada 1946-49; Minister of Mines and Resources 1949-50; Judge of Court of Appeal, Ont. 1950-65; Commdr. Order of Polonia Restituta 1946; Chair. of Council, Dominion of Canada Rifle Assen. 1928-48, Pres. 1952-54; Pres. Canadian Citizenship Council 1952-54; Vice-Pres. Nat. Rifle Assen. (U.K.) 1951-; Hon. LL.D. (Royal Mil. Coll.) 1965. *Address:* 'Oxley', Ancaster, Ontario, Canada.

GIBSON, Eleanor Jack, M.A., PH.D.; American psychologist; b. 7 Dec. 1910, Peoria, Ill.; d. of William and Isabel Grier Jack; m. James Gibson 1932; one s. one d.; ed. Smith Coll. and Yale Univ.; Instructor, Smith Coll., Northampton, Mass. 1933-40, Asst. Prof. 1940-49; Research Assoc. in Psychology, Cornell Univ. 1949-65, Prof. of Psychology 1965-; Visiting Prof. M.I.T. 1973; Pres. Eastern Psychology Assen. 1968, Experimental Div., American Psychological Assen. 1977; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Smith Coll., Mass.) 1972, (Rutgers) 1973; Distinguished Scientist Award, American Psychological Assen. 1968, G. Stanley Hall Medal, American Psychological Assen. 1971, Guggenheim Fellow 1972-73, Wilbur Cross Medal, Yale 1973, Howard Crosby Warren Medal 1977. *Publications:* Principals of Perceptual Learning and Development 1969, Psychology of Reading (with Harry Levin) 1975; articles in all psychological journals. *Address:* Department of Psychology, Cornell University, Ithaca, N.Y. 14850 (Office); 111 Oakhill Road, Ithaca, N.Y., U.S.A. (Home). *Telephone:* 256-4371 (Office); 273-0412 (Home).

GIBSON, Quentin Howieson, PH.D., F.R.S.; American (b. British) professor of biochemistry; b. 9 Dec. 1918, Aberdeen, Scotland; s. of William H. Gibson, O.B.E., D.SC.; m. Audrey J. Pinsent 1951; one s. three d.; ed. Repton School and Queen's Univ. Belfast; Demonstrator in Physiology, Queen's Univ., Belfast 1941-47; Lecturer in Physiology, Univ. of Sheffield 1947-55, Prof. and Head of Dept. of Biochemistry 1955-63; Prof. of Biophysical Chem., Johnson Foundation, Univ. of Pa. 1963-65; Prof. of Biochemistry, Cornell Univ. 1965-; mem. Physiological Soc. (London) and American Soc. of Biological Chemists; Fellow American Acad. of Arts and Sciences; Editor Biochemical Journal 1953-59; Editor Journal of Biological Chemistry 1965-70, Assoc. Editor 1975-. *Publications:* Rapid Mixing and Sampling Methods in Biochemistry (Editor) 1964. *Leisure interest:* sailing. *Address:* Department of Biochemistry and Molecular Biology, Cornell University, Ithaca, N.Y. 14853 (Office); 98 Dodge Road, Ithaca, New York 14850, U.S.A. (Home).

GIBSON, Roy; British space administrator; b. 4 July 1924, Manchester; m. Inga Elgerus 1971; one s. one d. (by previous marriage); ed. Chorlton Grammar School, Wadham Coll., Oxford, London School of Econs. Colonial Admin. Service, Malaya 1948-58; U.K. Atomic Energy Authority, London 1959-67; Deputy Dir. Technical Centre, European Space Research Org. (ESRO) 1967-71, Dir. of Admin. ESRO 1971-74, Acting Dir.-Gen. 1974-75; Dir.-Gen., European Space Agency April 1975-. *Leisure interests:* music, languages, bridge, walking. *Address:* European Space Agency, 8-10 rue Mario Nikis, 75738 Paris, France. *Telephone:* 567-5578.

GICHURU, James Samuel; Kenyan teacher and politician; b. 1914, Thogoto, Kiambu District; ed. Church of Scotland Missionary School, Kikuyu High School and Makere Coll., Uganda; Teacher, Kikuyu High School 1935-40; Headmaster, Church of Scotland Mission School, Dagoretti 1940-50; Pres. Kenya African Union 1944-47; Chief, Dagoretti location 1950-52; under restriction order during state of emergency 1955-60; Teacher, Roman Catholic Secondary School, Githunguri 1958-60; Pres. Kenya African Nat. Union (KANU) 1960-61, Vice-Pres. 1966-; M.P. 1961-; Minister of Finance 1962-63, of Finance and Econ. Planning 1963, and Dec. 1964; mem. of Govs. Kenyatta Foundation 1966; Vice-Pres. for Central Province 1966-69; Minister of Defence Dec. 1969-. *Address:* Ministry of Defence, Nairobi; Thogoto, Kiambu, Kenya.

GIELEN, Michael Andreas; Austrian conductor and composer; b. 20 July 1927, Dresden, Germany; m. Helga Augsten 1957; one s. one d.; ed. Univ. of Buenos Aires; studied composition under E. Leuchter and J. Polnauer. Pianist in Buenos Aires; on music staff of Teatro Colón 1947-51; with Vienna State Opera 1951-60, Perm. Conductor 1954-60; First Conductor, Royal Swedish Opera, Stockholm 1960-65; conductor and composer in Cologne 1965-69; Musical Dir. Nat. Orchestra of Belgium 1969-73; Chief Conductor Netherlands Opera 1973-75; Music Dir. and Gen. Man. Frankfurt Opera House Sept. 1977-(82); Chief Guest Conductor, BBC Symphony Orchestra Sept. 1978-. *Address:* D-6246 Glashütten/TS, im Wiesengrund 22, Federal Republic of Germany.

GIELGUD, Sir (Arthur) John, Kt., C.H., D.LITT., LL.D. (brother of Val Gielgud, *q.v.*); British actor and theatrical producer; b. 14 April 1904, London; s. of Frank Gielgud and Kate Lewis; ed. Westminster; first stage appearance at Old Vic 1921; Pres. Shakespeare Reading Soc. 1958-, RADA 1977-; *Plays acted in include:* Shakespeare's plays, Restoration comedies, The Constant Nymph, The Good Companions, Richard of Bordeaux, The Potting Shed, Ivanov, Forty Years On, The Battle of Shrivings, Home, Caesar and Cleopatra, Veterans, The Tempest, Bingo, No Man's Land, Half-Life 1977; Productions include: Shakespeare, Restoration drama, The Importance of Being Earnest, The School for Scandal, The Three Sisters, Dear Brutus, The Circle, The Heiress, The Lady's not for Burning, Ivanov; Plays directed include: A Day by the Sea, The Chalk Garden, Nude with Violin, Five Finger Exercise, The Last Joke, Big Fish, Little Fish, School for Scandal, Halfway Up the Tree, Private Lives, The Constant Wife; Films played in include: The Barretts of Wimpole Street, St. Joan, Julius Caesar, Richard III, Becket, The Loved One, Chimes at Midnight, Mister Sebastian, The Charge of the Light Brigade, The Tempest, Eagle in a Case, Lost Horizon, 11 Harrowhouse, Murder on the Orient Express, Providence, Joseph Andrews, Caligula, Portrait of the Artist as ■ Young Man, Aces High 1976, Romeo and Juliet (TV) 1978, Richard II (TV) 1978; Operas directed: The Trojans (Berlioz), A Midsummer Night's Dream (Britten); Shakespeare recital: Ages of Man in Europe, America and Australasia; Best supporting Actor (Murder on the Orient Express), Soc. of Film and TV Arts 1974. *Publications:* Early Stages 1938, Stage Directions 1963, 1964, Distinguished Company 1972. *Leisure interests:* reading, music. *Address:* South Pavilion, Wotton Underwood, Aylesbury HP18 0SB, England.

GIELGUD, Val Henry, C.B.E. (brother of Sir John Gielgud, *q.v.*); British writer; b. 28 April 1900; ed. Rugby and Oxford Univ.; actor, free-lance journalist, private sec. 1921-28; joined staff of Radio Times 1928; Head of Drama BBC 1929-52, of Sound Drama 1952-63. *Publications:* Black Gallantry 1928, Chinese White (play) 1928, Gathering of Eagles 1929, Imperial Treasure 1930, Under London 1930, The Broken Men 1931, How to Write Broadcast Plays 1932, Death at Broadcasting House 1933 (with Eric Maschwitz), Gravelhanger 1934, Death ■■ an Extra 1935 (with Eric Maschwitz), Outrage in Manchukuo 1937, Death in Budapest 1937 (with Eric Maschwitz), The Red Account 1938, Punch and Judy (play) 1938, The First Television Murder 1940, Beyond Dover 1941, Confident Morning 1943, Radio Theatre 1946, Years of the Locust 1947, The Light Way to Radio Playwriting 1948, Fall of a Sparrow 1949, Special Delivery 1950, One Year of Grace 1950, Party Manners (play) 1950, Iron Curtain (play) 1951, Poison in Jest (play), The High Jump 1953, The Bombshell (play) 1953, Cat 1955, Mediterranean Blue (play) 1956, British Radio Drama 1952-1956 1957, Gallows' Foot 1958, To Bed at Noon 1960, And Died So? 1961, The Goggle-Box Affair 1963, Years in a Mirror 1965, Prinvest-London 1965, Cats, A Personal Anthology 1966, Conduct of ■ Member 1967, A Necessary End 1969, The Candle-Holders 1970, The Black Sambo Affair 1972, My Cats and Myself 1972, In Such ■ Night 1974, A Fearful Thing 1975. *Address:* Wychwood, Barcombe, Lewes, Sussex, England. *Telephone:* Barcombe 268.

GIENOW, Herbert Hans Walter, DR.JUR.; German business executive; b. 13 March 1926, Hamburg; s. of Günther and Margarethe Gienow; m. Imina Brons 1954; one s. one d.; ed. Hamburg Univ. Head Clerk Deutsche Warentreuhand AG, mem. Board of Man. 1959; mem. Hamburg Bar; chartered accountant 1961; mem. Board of Man. Klöckner-Werke AG 1962, Chair. Oct. 1974-. *Leisure interests;* books, sailing, model soldiers. *Address:* Klöckner-Werke AG, 41 Duisburg, Mülheimer Strasse 50 (Office); 4033 Hösel, Am Adels 7; and 2 Hamburg 52, Charlotte-Niese-Strasse 17, Federal Republic of Germany (Home). *Telephone:* (0203) 3961 (Office); (02102) 60692 (Hösel); (040) 827717 (Hamburg).

GIEREK, Edward; Polish politician; b. 6 Jan. 1913, Parąbka, Bedzin district; m. Stanisława Gierek; two s.; ed. Cracow Acad. of Mining and Metallurgy; lived in France 1923-24 and in Belgium 1937-48; one of the organizers and leaders of Belgian resistance movement during German occupation in World War II; after the war Chair. Nat. Council of Poles in Belgium and one of the organizers of the PWP and Union of Polish Patriots in Belgium; returned to Poland 1948; mem. Polish United Workers' Party (PZPR) 1948-, Sec. Voivodship Cttee. Katowice 1949-54, First Sec. 1957-70; mem. Cen. Cttee. 1954-, Head Dept. of Heavy Industry, Cen. Cttee. 1954-56, mem. Politburo Cen. Cttee. 1956-, First Sec. Cen. Cttee. 1970-; Deputy to Seym (Parl.) 1952-; mem. Presidium All-Polish Cttee. of Nat. Unity Front 1971-; mem. Council of State March 1976-; Order of Banner of Labour First Class, Order of Builders of People's Poland, Order of Lenin 1973, Order of Great Yugoslav Star 1973, Frédéric Joliot-Curie Gold Medal 1974, José Marti Nat. Order (Cuba) 1975, Great Ribbon of Leopold's Order with Swords (Belgium) 1977, Great Cross of Order Polonia Restituta 1978, Order of October Revolution (U.S.S.R.) 1978, Grand Croix Légion d'honneur, and other decorations. *Address:* Polsak Zjednoczona Partia Robotnicza, Nowy Świat 6, 00-920 Warsaw, Poland.

GIEROWSKI, Stefan; Polish painter; b. 21 May 1925, Częstochowa; s. of Józef and Stefania (Wasilewska) Gierowski; m. Anna Golka 1951; one s. one d.; ed. Acad. of Fine Arts, Cracow. Docent, Acad. of Fine Arts, Warsaw, Dean of Painting Dept. 1975-, Extraordinary Prof. 1976-; mem. Polish Assn. of Plastic Artists, Sec.-Gen. 1957-59, Pres. of Painting Section 1959-61, 1963-66; Knight's Cross, Order of Polonia Restituta; Silver Medal, Third Festival of Fine Arts, Warsaw 1978. *One-man shows:* Warsaw 1955, 1957, 1960, 1967, 1972, 1974, 1978, K. Pułaski Museum, Warka (Warsaw) 1973, Galerie la Cloche, Paris 1961, 1965, Auverrier Galerie Numaga, Switzerland 1968, Galerie Simone Von Dormoel, Brussels 1977; exhibited in group shows: Contemporary Art Exhbn., Warsaw 1957, Carnegie Inst., Pittsburgh 1964, 1967, Biennale Int. d'arte, San Marino 1965, 34th Biennale, Venice 1968, Triennale of India, New Delhi 1968, Mexico 1975, Lisbon 1976, Madrid 1977. *Address:* Ul. Gagarina 15 m. 97, 00753 Warsaw, Poland. *Telephone:* 411633.

GIERSTER, Hans; German musical director; b. 12 Jan. 1925; ed. Musikhochschule, Munich, and Mozarteum, Salzburg; fmrly. Musical Dir. Freiburg-im-Breisgau Municipal Theatres; Gen. Musical Dir. of Nuremburg 1965; Dir. Musiktheater, Nuremburg 1971; guest conductor at State operas of Hamburg, Munich and Vienna; guest appearances at festivals in Munich 1964, Edinburgh (with Bavarian State Opera, Così Fan Tutte) 1965, Glyndebourne (presented The Magic Flute) 1966, Zurich 1971, Vienna 1972; concerts with Philharmonic Orchestras of Bamberg, Berlin, Munich, Vienna, London, Mexico City. *Address:* Musiktheater Nürnberg, 8500 Nuremberg, Richard-Wagner-Platz 1, Federal Republic of Germany.

GIEYSZTOR, Aleksander; Polish historian; b. 17 July 1916, Moscow; s. of Aleksander and Barbara (Popiel) Gieysztor; m. Irena Czarnecka 1938; one s. one d.; ed. Warsaw Univ.; Adjunct and Docent Warsaw Univ. 1945-49, Prof. 1949-, Dir. of Research into origins of Polish State 1949-53, Pro-Rector 1956-59, Dir. Historical Inst. 1955-75; Pres. Univ. Comm. of State Educ. Council 1960-69; mem. Bureau Int. Cttee. of Historical Sciences 1965- (Vice-Pres. 1975-); Assoc. Prof. Coll. de France 1968; Corresp. Fellow, Medieval Acad. of America 1968-; Visiting Fellow, All Souls Coll., Oxford 1968-69; Visiting Prof., Univ. of Harvard 1977-78; Chair. Scientific Council of Historical Inst., Polish Acad. of Sciences 1972-; Chair. Scientific Council of Nat. Library 1972-77; mem. Comité Int. de

Paléographie; Corresp. mem. Polish Acad. of Sciences 1971, Koninklijke Akad. voor Wetenschappen, Brussels 1972, Acad. Royale de Belgique 1976, Acad. Nat. des Sciences, Belles-Lettres et Arts de Bordeaux; Dr. h.c. (Aix-Marseille, Bordeaux, Paris IV-Sorbonne and Budapest Univs.); Silver Cross Virtuti Militari, Chevalier's and Commdr. Crosses of Order Polonia Restituta, Chevalier Légion d'honneur, Gold Cross of Merit 1953, Ordine al Merito della Repubblica Italiana 1975, Order of Banner of Labour (1st Class) 1977. *Publications:* Wladza Karola Wielkiego (Rule of Charles the Great) 1938, Genesis of the Crusades 1950, History of Poland (co-author) 1968, Zarys dziejów pisma łacińskiego (Outline of the History of Latin Alphabet) 1973, Thousand Years of Poland (with S. Herbst and B. Lesnodorski) 1976, numerous articles on medieval history. *Address:* Ul. Wilcza 8 m. 20, 00-532 Warsaw, Poland. *Telephone:* 28-41-38.

GIL ROBLES, José Maria; Spanish lawyer and politician; b. 1899. Leader, Spanish Christian Democrat Party; mem. Privy Council of Don Juan, Pretender to Spanish Throne; exiled 1962; returned to Spain 1969; leader of Federación Democrática Popular 1975-77; led prosecution in Matesa case; leader Federación Democrática Cristiana (FDC) 1977-. *Address:* Federación Democrática Cristiana, Madrid, Spain.

GILBERT, Ian H.G.; British business executive; b. 25 Nov. 1910, Chingford, Essex; s. of Claude Edward Gilbert and Ethel Mary Dolleymore; m. Violet Edith Heelas 1938; one s. two d.; ed. Bradfield Coll., Berkshire; Deloitte, Plender, Griffiths & Co. (Chartered Accountants) 1930-38; Accountant and later Sec. The Leopoldina Railway Co. Ltd., London 1938-51; Dir. Bryant & May Ltd. 1951-55, Man. Dir. 1955-64, Chair. 1964-72; Dir. British Match Corpn. Ltd. 1953-64, Deputy Chair. 1964-72, Chair. 1972-75; Chair. Bryant & May (Latin America) Ltd. 1964-73, Airscrew-Weyroc Ltd. 1965-72; Dir. Baker Perkins Holdings Ltd. 1972-75, Chair. 1975-; Chair. Anglo-Brazilian Soc. 1970-76. *Leisure interests:* golf, reading. *Address:* Adams Cottage, Bramshott, Liphook, Hants., England. *Telephone:* Liphook 72-3075.

GILBERT, Lewis; British film director; b. 6 March 1920, London; m. Hylda Henrietta Tafler; two s.; entered films as child actor; joined R.A.F. and became Asst. Dir. to William Keighley on Target for Today, etc. 1939; joined G.B. Instructional (G.B.I.) 1944, for whom wrote and dir. The Ten Year Plan, Sailors Do Care, Arctic Harvest, etc. 1946-47; wrote and dir. The Little Ballerina 1947-48, worked on series of documentaries for G.B.I.; Producer/ Dir. Int. Realist 1948; numerous awards. *Films directed include:* The Little Ballerina 1947, Once a Sinner 1950, Scarlet Thread 1951, There is Another Sun 1951, Time Gentlemen Please 1952, Emergency Call 1952, Cosh Boy, Johnny on the Run 1953, Albert R.N. 1953, The Good Die Young 1954, The Sea Shall Not Have Them 1954, Cast a Dark Shadow 1955, Reach for the Sky 1956, The Admirable Crichton 1957, Carve Her Name With Pride 1957, A Cry From the Streets 1958, Ferry to Hong Kong 1959, Sink the Bismarck 1960, Light Up The Sky 1960, The Greengage Summer 1961; co-produced Spare The Rod 1959-60; dir. H.M.S. Defiant 1962, The Seventh Dawn 1964, Alfie 1966, You Only Live Twice 1967, Paul and Michelle (also prod.) 1973, Seven Men at Daybreak 1975, Seven Nights in Japan 1976, The Spy Who Loved Me 1977, Moonraker 1978. *Address:* 19 boulevard de Suisse, Monaco.

GILBERT, Milton, M.A., PH.D.; American economist; b. 8 April 1909; ed. Temple Univ., and Univ. of Pennsylvania; Editor Survey of Current Business, U.S. Dept. of Commerce 1938-41; Chief Nat. Income Div., U.S. Dept. of Commerce 1941-51; Dir. of Statistics and Nat. Accounts, OEEC 1951-55, Dir. of Econs. and Statistics 1955-60; Bank for Int. Settlements, Econ. Adviser 1960-75, also fmr. Head, Monetary and Econ. Dept.; private econ. consultant 1975-; Fellow, American Statistical Assn. *Publications:* Currency Depreciation and Monetary Policy 1939, U.S. National Income Supplement (with associates) 1947, An International Comparison of National Products and the Purchasing Power of Currencies (with Irving B. Kravis) 1954, The Problem of Rising Prices (with associates) 1961, The Gold Dollar System: Conditions of Equilibrium and the Price of Gold 1968, The Discipline of the Balance of Payments and the Design of the International Monetary System 1970. *Address:* c/o Bank for International Settlements, Centralbahnstrasse 7, Basel, Switzerland.

GILBERT, Pierre-Eugène, L.ÈS L., L.EN D.; French diplomatist; b. 12 Jan. 1907; m. Catherine Bembo 1944; one s.; ed. Univ. de Paris à la Sorbonne and Ecole des Langues Orientales; Ministry of Foreign Affairs, Paris 1932-33; Sec. Interpreter Far East, successively at Foochow, Yünnanfu, Peking and Nanking 1933-37; mem. of French Del. Brussels Conf. 1937, Embassy Shanghai 1937-39; Ministry of Foreign Affairs, Paris 1939; later at Vancouver and Helsinki; joined Free French 1940, Lieut.-Commdr. R.N. 1940-44; dismissed and deprived of nationality by Vichy; Commissariat of Foreign Affairs, Algiers 1944; after Liberation mem. Purge Comm. Ministry of Foreign Affairs, Paris; Govt. Commr. at sessions of Council of State 1945-47; Minister to Thailand 1947-49; Amb. to Peru 1949-52; Amb. to Israel 1953-59; Diplomatic Counsellor 1959-61; Pres. and Dir.-Gen. Soc. Française des Techniques Pye (S.F.T.P.) 1961-, Immobilière Franco-Allemande (I.F.R.A.); Administrator Schneider Radio-Télévision S.A.; Commdr. Légion d'honneur, Croix de guerre, Médaille de la Résistance. *Leisure interests:* sailing, shooting, farming. *Address:* 48 rue Boissière, 75116 Paris; and Saint Nicolas de Bliquetuit 76, France. *Telephone:* 553-79-14 (Paris).

GILCHRIST, Sir Andrew Graham, K.C.M.G.; British diplomatist (retd.); b. 19 April 1910, Lesmahagow, Scotland; s. of late J.G. Gilchrist; m. Freda Grace Slack 1946; two s. one d.; ed. Edinburgh Acad., and Exeter Coll., Oxford; Siam Branch, British Consular Service 1933-36, 1938-41, also served Paris, Marseille, Morocco; Army service, S.E. Asia 1944-46; Foreign Office 1946-51; Consul-Gen., Stuttgart 1951-54; Foreign Office Counsellor, Staff of U.K. Commr.-Gen. for S.E. Asia, Singapore 1954-56; Amb. to Iceland 1956-59; Consul-Gen., Chicago 1960-63; Amb. to Indonesia 1963-66; Asst. Under-Sec. Commonwealth Office 1966-67; Amb. to Ireland 1967-70; Chair. British Highlands and Islands Devt. Board, Inverness 1970-76. *Publications:* Bangkok Top Secret 1970, Cod Wars and How to Lose Them 1978. *Address:* Arthur's Crag, Hazelbank, by Lanark, Scotland. *Telephone:* Crossford 263.

GILELS, Emil Grigorevich; Soviet pianist; b. 19 Oct. 1916, Odessa; m. Farizet Gilels 1948; one d.; ed. Odessa Musical and Dramatic Inst. and Moscow Conservatoire; mem. C.P.S.U. 1942-; First Prize, All-Russia Music Competition 1933- Prof. Moscow Conservatoire 1952; concert tours in Europe, U.S.A., Japan, etc.; has recorded for DGG, EMI and RCA; Hon. Prof. Budapest Conservatoire, Royal Acad. of Music, London; State Prize 1946, People's Artist of the U.S.S.R. 1954, Lenin Prize 1962, Order of Lenin (twice); and other decorations. *Address:* Moscow State Conservatoire, Ul. Gerzena 13, Moscow, U.S.S.R.

GILLARD, Francis (Frank) George, C.B.E., B.SC., F.R.S.A.; British broadcasting and communications consultant: b. 1 Dec. 1908, Tiverton Devon; s. of Francis Henry and Emily Jane Gillard; ed. St. Luke's Coll., Exeter. Schoolmaster 1931-41; BBC War Corresp. 1941-45; BBC W. Region Programme Dir. 1945-55; Chief Asst. Dir. of Sound Broadcasting 1955-56; Controller W. Region 1956-63; Dir. of Sound Broadcasting 1963-69, Man. Dir. Radio 1969; Chair of Govs., Welling School, Somerset 1974-; Chair. of Council, Educational Foundation for Visual Aids 1977-; mem. Finance Cttee., Univ. of Exeter 1966-; Consultant EMI Ltd. 1970-, Corpn. for Public Broadcasting, U.S.A. 1970-. *Leisure interests:* country life, reading, travel. *Address:* Trevor House, Poole, Wellington, Somerset, England. *Telephone:* Wellington 2890.

GILLÈS, Daniel; Belgian writer; b. 1917, Bruges; m. Simone Lambinon 1948; one d.; ed. law studies. Prix Rossel (Belgium); Grand Prix de la critique littéraire (France) 1967. *Publications include:* Jetons de présence, Le coupon 1944, Les brouillards de Bruges, L'etat de grâce, La termitière, Mort-la-douce, La rouille (stories), Le festival de Salzbourg, Nés pour mourir; biographies: Tolstoi, D. H. Lawrence ou le puritain scandaleux, Tchékhov. *Leisure interests:* travel, tennis, painting. *Address:* 161 avenue Churchill, 1180-Brussels, Belgium. *Telephone:* 341-71-55.

GILLESPIE, Hon. Alastair William, P.C., M.A., M.COM.; Canadian business executive and politician; b. 1 May 1922, Victoria, B.C.; s. of Errol Pilkington Gillespie and Catherine Beatrice (née Oliver) Gillespie; m. Diane Christie Clark 1947; one s. one d.; ed. Univs. of British Columbia, McGill, Oxford and Toronto. served, Canadian Fleet Air Arm, World War II; fmr. Pres. Welmet Industries Ltd., Welland, Canada Chromalox Co., Rexdale; fmr. Vice-Pres. and Dir. Canada Corporate Man. Co. Ltd., Toronto; Chair. Exec. Cttee. Canadian Inst. of Public Affairs 1962-64 (Dir. 1954-65); fmr. Dir. Richardson, Bond & Wright Ltd., Owen Sound, Int. Equipment Co. Ltd., Montreal, Cashway Lumber Co. Ltd., Malton, Mechanics for Electronics Ltd., Cambridge, Mass., and other cos.; mem. Parl. 1968-79; Vice-Chair. Exec. Cttee. of Commons Finance, Trade and Econ. Affairs Cttee. 1968-70; Parliamentary Sec. to Pres. of Treasury Board 1970-71; Minister of State for Science and Tech. 1971-72; Minister of Industry, Trade and Commerce 1972-75, of Energy, Mines and Resources 1975-79, Minister of State for Science and Tech. 1978-79; Liberal. *Leisure interests:* badminton, golf, skiing and squash. *Address:* 78 John Street, Ottawa, Ontario K1M 1N4, Canada (Home).

GILLESPIE, John Birks (Dizzy); American musician and composer; b. 21 Oct 1917, Cheraw, S.C.; s. of James and Lottie (Poe) Gillespie; m. Lorraine Wills 1940; ed. High School, Laurinburt Inst., N.C. Jazz trumpet player 1930-; toured with Teddy Hill Band 1937-39, Earl Hines, Billy Eckstine and others 1939-44; led band 1946-50, combo 1950-56; rep. U.S. Dept. of State on culture tour to Iran, Pakistan, Lebanon, Syria, Turkey, Yugoslavia, Greece, S.A. 1956-58; leader quintet 1958-; toured Argentina 1961; appeared at Jazz Workshop, San Francisco, Monterey Jazz Festival (Calif.), and Juan-les-Pins Festival (France) 1962; numerous other tours, festivals, night club, TV appearances; first prize for soundtrack, Berlin Film Festival 1962; Hon. D.Mus. (Rutgers) 1970; Handel Medallion 1972, Musician of Year Inst. of High Fidelity 1975. *Publications:* autobiography (in preparation 1978). *Leisure interests:* chess, pool, swimming. *Numerous recordings include:* At Village Vanguard 1969, My Way 1969. *Address:* 477 North Woodland, Eaglewood, N.J. 07631, U.S.A. (Home).

GILLET, Guillaume; French architect; b. 20 Nov. 1912; ed. Ecole Nat. Supérieure des Beaux-Arts, Paris. Premier Grand Prix de Rome 1946, Chief Architect, Bâtiments Civils et Palais Nationaux 1954-; Prof., Ecole Nat. Supérieure des Beaux-Arts 1953-73; Consulting Architect to Ministry of Building; Head Architect, French Section, Brussels Int. Exhbn 1958; Head of UNESCO Town-Planning Mission to Israel; mem. Acad. des Beaux-Arts 1968; mem. Acad. d'architecture 1957-, Pres. 1970-73; Commdr. Ordre des Arts et des Lettres 1966, Ordre de la Couronne (Belgium) 1958, Officer, Légion d'honneur, Commdr. Ordre nationale du Mérite, etc. *Address:* 30 rue d'Armaillé, 75017 Paris (Office); 11 rue Saint-Simon 75007 Paris, France (Home).

GILLET, Renaud; French industrialist; b. 14 Dec. 1913, Lyon; s. of Charles Gillet; m. Marie Colcombet 1939; two s. one d.; ed. Ecol Supérieure de Chimie Industrielle, Lyon. with Soc. Rhodiacéta 1935, Cie. Industrielle des Textiles Artificiels et Synthétiques (CTA) 1942; Gen. Man. Textil 1961; Pres. Dir.-Gen. Pricel 1966, Chair.; Vice-Pres. Rhône-Poulenc S.A. 1972, Pres. Dir.-Gen. 1973–. *Address:* Rhône-Poulenc S.A., 22 avenue Montaigne, 75008 Paris (Office); 3 place Vauban, 75007 Paris, France (Home).

GILLET, Robert, L. ÈS L., L. EN D.; French diplomatist (retd.); b. 17 April 1912; ed. École Libre des Sciences Politiques, and Oxford Univ. Attaché, Ankara 1941-43; Deputy Dir. at Ministry of Foreign Affairs (Econ. and Finance Section) 1945-51; Counsellor, Madrid 1951-53, Cairo 1953-55; Minister Tunis 1955-57; Technical Counsellor Minister of Foreign Affairs 1957-58; Dir. Office of M. Couve de Murville, Ministry of Foreign Affairs 1958-64, Deputy Dir. Political Affairs, Ministry of Foreign Affairs 1964; Amb. to Morocco 1965-70; Amb. to Spain 1970-76; Officer Légion d'honneur, Hon. K.C.M.G., and other honours. *Address:* 21 *bis* avenue d'Iéna, 75016 Paris, France.

GILLETT, Sir Robin Danvers Penrose, Bt., G.B.E.; British company executive; b. 9 Nov. 1925, London; s. of Sir (Sydney) Harold Gillett, Bt., M.C. (Lord Mayor of London 1958-59), and Audrey Isobel Penrose Gillett (née Wardlaw); m. Elizabeth Marion Grace Findlay 1950; two s.; ed. Nautical Coll., Pangbourne; served Canadian Pacific Steamships 1943-60, Master Mariner 1951, Staff Commdr. 1957; Dir. of Wigham Poland Home; Underwriting Mem. of Lloyd's; Common Councilman for Ward of Bassishaw, City of London 1965-69, Alderman 1969-, Sheriff 1973-74, Lord Mayor of London 1976-77; Chancellor of The City Univ. 1976-77; Liveryman and Master of the Hon. Co. of Master Mariners; Chair. of local Civil Defence Cttee. 1967-68, Pres. City of London Civil Defence Instructors' Assen., Nat. Waterways Transport Assen.; U.K. Pres., Royal Life Saving Soc.; Vice-Chair. City of London Centre, St. John Ambulance Assen.; Vice-Pres. City of London District Red Cross; Chair of Govs. Pangbourne Coll. and King Edward's School, Witley; Founder mem. and Fellow, Nautical Inst.; Vice-Pres. and Fellow, Inst. of Admin. Man.; mem. of Bd., R.N.R. Decoration (RD) 1965, Hon. Commdr. R.N.R. 1971; H.M. Lieut. for City of London 1975; Elder Brother of Trinity House; K. St. J.; Hon. D.Sc.(City Univ.) 1976; Officer, Order of the Leopard (Zaire), Commdr., Royal Order of Dannebrog (Denmark), Order of Johan Sedia Makhota (Malaysia), Grand Cross of Municipal Merit (Lima, Peru) 1977. *Leisure interests:* sailing, photography. *Address:* 4 Fairholt Street, Knightsbridge, London, SW7 1EQ; and Elm Cottage, Biddestone, Wiltshire, England. *Telephone:* 01-709 0505 (Office); 01-589 9860 (Home); 024-971 2445 (Wiltshire).

GILLIATT, Penelope, F.R.S.L.; British author and film critic; b. London; d. of Cyril and Mary (Douglass) Conner; m. 1st Prof. R. W. Gilliatt (divorced); m. 2nd John Osborne (*q.v.*) 1963 (divorced); one d.; ed. Queen's Coll. Univ. of London, Bennington Coll. Vt., U.S.A.; film critic, The Observer 1961-67, theatre critic 1965; guest film critic, The New Yorker 1967, regular film critic (six months each year) 1968-; awards for writing, American Acad., Nat. Inst. of Arts and Letters 1972; awards for screenplay Sunday, Bloody Sunday from Writers' Guild of America, Writers' Guild of England, Nat. Soc. of Film Critics (New York), New York Film Critics' Soc. *Publications:* Novels: One by One 1965, A State of Change 1968, The Cutting Edge 1978; Short stories: What's It Like Out? 1968 (Come Back if it Doesn't Get Better, U.S.A. 1967), Nobody's Business 1972, Penguin Modern Short Stories 1970, Splendid Lives 1977; plays, films: Property 1970, Sunday, Bloody Sunday (screenplay) 1971; TV play: The Flight Fund 1974; non-fiction: Unholy Fools: Film and Theatre 1972, Jean Renoir, Essays, Conversations, Reviews 1975, Tati 1976. *Address:* The New Yorker, 25 West 43rd Street, New York, N.Y. 10036, U.S.A.

GILLIGAN, John Joyce, M.A.; American politician; b. 22 March 1921, Cincinnati, Ohio; s. of Harry J. and Blanche D. J. Gilligan; m. Mary K. Dixon 1945; two s. two d.; ed. Notre Dame Univ. and Univ. of Cincinnati; Instructor in literature, Xavier Univ., Cincinnati 1948-53; mem. Cincinnati City Council 1953-64, 1967; mem. House of Reps., U.S. Congress 1964-67; Gov. of Ohio 1971-75; Democrat. *Leisure interests:* tennis, sailing. *Address:* c/o Office of the Governor, The State House, Columbus, Ohio 43215, U.S.A. *Telephone:* 614-469-3526.

GILLON, Mgr. Luc-Pierre-A., D.SC.; Belgian ecclesiastic and scientist; b. 15 Sept. 1920, Rochefort; research physicist, Inst. Interuniversitaire des Sciences Nucléaires 1948; guest staff mem. Brookhaven Nat. Lab., New York 1953; Rector Lovanium Univ. 1954; Prof. of Nuclear Eng., Catholic Univ. of Louvain 1972; Vice-Chair. Nuclear Research Centre (Mol, Belgium). *Leisure interest:* flying (private aeroplane). *Address:* Université de Louvain, Institut de Physique Corpusculaire, chemin du Cyclotron, 1348 Louvain La Neuve, Belgium. *Telephone:* 010-41-81-81 (Office); 010-41-70-59 (Home).

GILMAN, Alfred, PH.D.; American professor of pharmacology; b. 5 Feb. 1908, Bridgeport, Conn.; s. of Joseph Gilman and Frances Zack; m. Mabel Schmidt 1934; one s. one d.; ed. Yale Univ.; Research Fellow in Biochemistry, Yale School of Medicine 1931-32, Research Fellow in Pharmacology 1932-35, Asst. Prof. of Pharmacology and Toxicology 1935-43; U.S. Army 1943-46; Assoc. Prof. of Pharmacology, Coll. of Physicians and Surgeons, Columbia Univ. 1946-48, Prof. 1948-56; Prof. and Chair. Dept. of Pharmacology, Albert Einstein Coll. of Medicine 1956-73, part-time Prof. 1973-, Assoc. Dean for Graduate Studies 1964-69; Lecturer Dept. of Pharmacology, Yale Univ. School of Medicine 1973, Visiting Prof. of Pharmacology, Univ. of Va. School of Medicine 1973; Fellow A.A.A.S., American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences, American Physiological Soc., Soc. for Experimental Biology and Medicine, Harvey Soc., American Soc. for Pharmacology and Experimental Therapeutics, New York Acad. of Sciences, New York Acad. of Medicine; Hon. Fellow, American Acad. of Allergy; mem. Pharmacology and Experimental Therapeutics Study Section, U.S. Public Health Service 1946-49, 1950-55, Chair. 1955-60; Pres. American Soc. for Pharmacology and Experimental Therapeutics 1960-61; official of other medical orgs. *Publications:* Co-Author and Co-Editor (with Dr. Louis S. Goodman) The Pharmacological Basis of Therapeutics. *Leisure interests:* fishing, boating. *Address:* Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, Conn. 06510 (Office); 123 York Street, New Haven, Conn. 06511, U.S.A. (Home). *Telephone:* (203) 436-1333 (Office); (203) 624-5344 (Home).

GILMAN, Henry, PH.D.; American professor of chemistry; b. 9 May 1893, Boston, Mass.; s. of David Gilman and Jane (Gordon) Gilman; m. Ruth Shaw 1929; one s. one d.; ed. Harvard Univ., Eidgenössische Technische Hochschule, Zürich, Sorbonne, Paris and Oxford Univ.; Instructor, Harvard Univ. 1918-19; Assoc., Univ. of Ill. 1919; Asst. Prof. Iowa State Coll. 1919, Prof. of Chem. 1923, Distinguished Prof. of Sciences and Humanities, Iowa State Univ. 1962-; Research Dir. and Adviser for various Govt. Agencies including Atomic Energy Comm., Office of Scientific Research and Devt. and Nat. Defence Research Cttee., U.S.A.F.; Firestone Int. Lecturer, Int. Symposia Lecturer, Bordeaux 1968, Moscow 1971, Madison 1972 and numerous other lectureships in U.S. and abroad; Official Visitor and Lecturer, U.S.S.R. 1963; mem. of Editorial Boards of various scientific books and periodicals; Trustee, Carver Research Foundation; Fellow, A.A.A.S. (Vice-Pres.; Section Chair. 1930); Hon. Fellow, Chemical Soc., London; mem. American Chemical Soc. (Councillor-at-Large 1939-41, 1942-44, Chair. Organic Div.), Nat. Acad. of Sciences, Org. Cttee. of Int. Symposia in Organometallic Chem.; Foreign mem. Royal Soc., London 1975; Hon. Life mem. New York Acad. of Sciences; F. S. Kipping Award in Organosilicon Chem., Int. Organometallic Lecture Award, Mid-West

Gold Medal, Merit Award by Iowa Acad. of Sciences, 100th Anniversary Distinguished Fellow Award, Iowa Acad. of Sciences, Priestley Medal Award, American Chem. Soc. *Publications:* Catenated Organic Compounds of Group IV-B (with W. H. Atwell and F. K. Cartledge), Organic Substituted Cyclosilanes (with G. L. Schwebke), Introduction to Organometallic Chemistry (with F. K. Cartledge) 1969, Organic Chemistry—An Advanced Treatise, 4 vols. (Editor), Collective Vol. I of Organic Syntheses, More than One-half Century of Organometallic Chemistry, introductory lecture at Third Int. Organosilicon Symposium; research articles in standard scientific journals on various subjects including organometallic and organo-silicon chemistry, organofluorine chemistry and contribs. to encyclopaedias and other books. *Leisure interests include:* non-professional reading, travel, hiking, tennis, badminton. *Address:* Department of Chemistry, Iowa State University, Ames, Iowa 50010 (Office); 3221 Oakland Street, Ames, Iowa 50010, U.S.A. (Home). *Telephone:* 294-6342 (Office); 292-1171 (Home).

GILMOUR, Rt. Hon. Sir Ian (Hedworth John Little), Bt., P.C., M.P.; British laywer and politician; b. 8 July 1926; s. of Lieut.-Col. Sir John Little Gilmour and Hon. Victoria Laura; m. Lady Caroline Margaret Montagu-Douglas-Scott 1951; four s. one d.; ed. Eton Coll., Balliol Coll., Oxford. Served with Grenadier Guards 1944-47, rank of Second Lieut. 1945; called to the Bar, Inner Temple 1952; Editor The Spectator 1954-59; M.P. for Norfolk Central 1962-74, for Chesham and Amersham 1974-; Parl. Under-Sec., Ministry of Defence 1970-71, Minister of State for Defence Procurement 1971-72, for Defence 1972-74, Sec. of State for Defence 1974; Lord Privy Seal May 1979-; Chair. Conservative Research Dept. 1974-75. *Publications:* The Body Politic 1969, Inside Right, A Study of Conservatism 1977. *Address:* House of Commons, Westminster, London, S.W.1; The Ferry House, Old Isleworth, Middx., England. *Telephone:* 01-560 6769.

GILRUTH, Robert Rowe, M.S.; American engineer; b. 8 Oct. 1913, Nashwauk, Minn.; s. of Henry A. Gilruth and Frances M. (Rowe) Gilruth; m. 1st Esther Jean Barnhill 1937 (died 1972), 2nd Georgene Hubbard Evans 1973; one s. one d.; ed. Univ. of Minnesota. With Nat. Advisory Cttee. for Aeronautics (later NASA) 1937-, Dir. Space Task Group (project Mercury) 1958; Dir. NASA Manned Spacecraft Center (Projects Mercury, Gemini and Apollo) 1961-72; Dir. Key Personnel Devt. NASA 1972-73, retd. 1973; Consultant to NASA Administrator 1974-; Fellow, American Rocket Soc., Inst. of Aerospace Sciences, American Astronautical Soc.; Gov. Nat. Rocket Club; Sylvanus Albert Reed Award 1950, Outstanding Achievement Award (Univ. of Minn.) 1954, Louis W. Hill Space Transportation Award 1962, NASA Distinguished Service Medal 1962, U.S. Chamber of Commerce Great Living American Award 1962, Dr. Robert J. Goddard Memorial Award of American Rocket Soc. 1962; Hon. Fellow, Inst. of Aerospace Sciences 1963; Spirit of St. Louis Medal by American Soc. of Mechanical Engineers 1965; Americanism Award by China-Burma-India Veterans Asscn. 1965; mem. Int. Acad. of Astronautics 1965-; mem. Houston Philosophical Soc. 1966-; Daniel Florence Guggenheim Award, Int. Acad. of Astro-nautics Soc.; mem. Nat. Acad. of Eng. 1968, Nat. Acad. of Sciences 1974, Int. Space Hall of Fame 1976; four hon. degrees; NASA Distinguished Service Medal 1969; Rockefeller Public Service Award 1969; Hon. Fellow, Royal Aeronautical Soc.; U.S. Nat. Space Hall of Fame Award 1969, American Soc. of Mech. Engineers Medal 1970, Inst. of Mechanical Engineers James Watt Int. Medal 1971, Nat. Aviation Club Award for Achievement 1971, Robert J. Collier Trophy (Nat. Aeronautic Assn. and Nat. Aviation Club) 1972. *Leisure interests:* boating and boat building. *Address:* NASA, Johnson Space Center, Houston, Texas 77058 (Office); 5128 Park Avenue, Dickinson, Texas 77539, U.S.A. (Home). *Telephone:* 713-483-3438 (Office).

GIMBEL, Bruce A.; American businessman; b. 28 July 1913; m. Barbara Poulson 1945; two s. one d.; ed. Choate School and Yale Univ.; joined Gimbel Bros. Inc. 1935; joined Saks Fifth Avenue 1936, Vice-Pres. Saks 1946-53; Pres. Gimbel Bros. 1953-73, Chair. of Board, Chief Exec. Officer Gimbel Bros. 1973-75, Dir. 1946-76. *Leisure interest:* flying. *Address:* 635 Madison Avenue, New York, N.Y. 10022 (Office); 435 East 52nd Street, New York, N.Y. 10022, U.S.A. (Home).

GIMENEZ-ARNAU Y GRAN, José Antonio; Spanish diplomatist; b. 8 May 1912, Laredo, Santander; ed. Univ. of Bologna; entered diplomatic service 1942; held posts in Buenos Aires, Dublin 1943-53; Dir.-Gen. for Econ. Co-operation, Ministry of Commerce 1953; Counsellor for Foreign Trade, Montevideo 1956; Minister Plenipotentiary 1960; Amb. to Nicaragua 1961, to Guatemala 1962; Perm. Rep. to Int. Orgs. in Geneva 1964; Amb. to Brazil 1967-69, to Portugal 1969-73, to Italy 1973-77; decorations from Spain, Guatemala, Italy, Brazil, Germany and France. *Publications:* De pantalón largo, Murió hace 15 años, El Puente, La canción del jilguero, La cárcel sin puertas, etc. *Address:* c/o Ministerio de Asuntos Exteriores, Plaza de la Provincia 1, Madrid 12, Spain.

GINASTERA, Alberto; Argentine composer; b. 11 April 1916; ed. Conservatorio Nac. de Música y Arte Escénico. Dir. Inst. Torcuato di Tella, Centro Latino-americano de Altos Estudios Musicales. *Works include:* Ollantay (symphonic poem) 1948, Music for film Caballito Criollo 1954, Variaciones concertantes 1957, Obertura para el Fausto Criollo (orchestra), two symphonies, Panambí (ballet), Estancia (ballet), Don Rodrigo (opera), Bomarzo (opera) 1967, Beatrice Cenci (opera) 1971. *Address:* Instituto Torcuato di Tella, Superí 1502, Buenos Aires, Argentina.

GINSBERG, Allen; American poet; b. 3 June 1926, Newark, N.J.; s. of Louis Ginsberg and Naomi Levy; ed. Grammar High School, Paterson, N.J. and Columbia Coll.; travelled to Mexico and Europe during fifties; interest in Gnostic-mystical poetry and politics led to residence in Far East 1962-63; experiments with poetic effects of psychedelic drugs 1952-, Cambridge experiments with Dr. Timothy Leary 1961; visited Africa and Arctic, South America 1960, Russia and E. Europe 1965; elected Kral Majales (King of May), Czechoslovakia 1965; participated in college poetry readings and conventions 1958-61, also Flower Power marches and anti-war rallies; Contributing Editor, Black Mountain Review, Advisory Guru, The Marijuana Review; attended first Human Be-in, San Francisco 1967, Yippie Life Festival, Chicago 1968; arrested several times during various anti-war protests; Co-Dir. Jack Kerouac School of Disembodied Poetics, Naropa Inst., Colo. (Buddhist Studies Inst.); mem. Nat. Inst. of Arts and Letters 1974; has recorded Songs of Innocence and of Experience by William Blake, Tuned by Allen Ginsberg; now learning music and dairy farming. *Publications:* Poetry: Howl and Other Poems 1956, Kaddish and Other Poems 1961, Empty Mirror 1961, Reality Sandwiches 1963, Ankor Wat 1968, Airplane Dreams 1968, Planet News 1968, The Fall of America 1973, Mind Breaths 1977; prose: Yage Letters (with William Burroughs, *q.v.*) 1963, Indian Journals 1970, Gay Sunshine Interview 1973, Allen Verbatim 1974, The Vision of the Great Rememberer 1974, Journals 1977; songs: First Blues 1975; also many contributions to anthologies. *Leisure interests:* Meditation, blues music, drugs. *Address:* c/o City Lights Books, 1562 Grant Avenue, San Francisco, Calif. 94133, U.S.A.

GINSBURG, Marcel; Belgian diamond merchant; b. 1891, Moscow, Russia; m. Rosalia Zagorodska 1954; two d.; fmr. Pres. Belgian Diamond Exchange, Treas. of Diamond Office, Pres. of the Fed. of Belgian Diamond Exchanges, Vice-Pres. of the World Federated Diamond Exchanges; Hon. Pres. Antwerp Diamond Exchange; Gold Medal of Lauréat du Travail; Officer of the Order of Léopold; Commdr. Order of the Crown. *Leisure interest:* music. *Address:* 65 Avenue de Belgique, Antwerp, Belgium. *Telephone:* 30-64-07.

GINZBURG, Natalia; Italian writer; b. 1916, Palermo; m. 1st L. Ginzburg, 2nd Gabriele Baldini; first short stories published at age 18; works now translated into several languages; Strega Prize (for Lessico famigliare) 1963; Marzotto Prize (for L'Inserzione). *Publications:* novels include: La Strada che va in Città 1942, E'stato cosi, Valentino, Sagittario, Le voci della sera, Le Piccole Virtù 1962, Lessico famigliare 1963, Tutti i nostri ieri, Caro Michele 1973; dramatic works include: Ti ho sposato per allegria, L'Inserzione; other writings include Mai devi domandarmi. *Address:* Piazza Camp Marzio 3, Rome, Italy.

GINZBURG, Vitaly Lazarevich, DR.SC.; Soviet physicist; b. 4 Oct. 1916, Moscow; s. of Lazar and Augusta Ginzburg; m. Nina Ginzburg 1946; one d.; ed. Moscow Univ.; at Inst. of Physics U.S.S.R. Acad. of Sciences 1940-; Prof. Gorky Univ. 1945-68, Moscow Tech. Inst. of Physics 1968-; mem. C.P.S.U. 1944-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-66, mem. 1966-; mem. Inst. Acad. of Astronautics 1969; Assoc. Royal Astronomical Soc., London 1970; Foreign Hon. mem. American Acad. of Art and Science 1971; Foreign mem. Royal Danish Acad. of Sciences and Letters 1977; Hon. Fellow Indian Acad. of Science 1977; Hon. D.Sc. (Sussex) 1970; Lomonosov Prize 1962, U.S.S.R. State Prize 1953, Lenin Prize 1966, Order of Lenin, etc. *Publications:* works on theoretical physics (superconductivity, etc.), astrophysics and radiophysics. *Address:* P. N. Lebedev Physical Inst., U.S.S.R. Academy of Sciences, Leninsky Prospect 53, Moscow B-333, U.S.S.R.

GINZTON, Edward Leonard, M.S.E.E., PH.D.; American electrical engineer; b. 27 Dec. 1915, Ukraine, Russia; s. of Leonard Louis and Natalie (Philipova) Ginzton; m. Artemas A. McCann 1939; two s. two d.; ed. Univ. of Calif. at Berkeley and Stanford Univ.; during Second World War developed art of microwave measurements and high-power klystron; later directed construction of several large

linear accelerators including the design of the two-mile long SLAC; Teaching and research, Stanford Univ. 1946-61; Co-Founder Varian Assocs., Palo Alto, Calif. 1948, mem. of Board 1948-, Chair. of Board 1959-, Pres. 1964-68; mem. Nat. Acad. of Eng. Council 1974–, NRC Comm. on Nuclear and Alternative Energy Systems 1975-, mem. Nat. Acad. of Eng. Nat. Acad. of Sciences; Inst. of Electrical and Electronic Engineers awards: Morris Liebmann Memorial Prize, Medal of Honor 1969; Calif. Mfr. of the Year Award 1974. *Publications:* Microwave Measurements 1957; and numerous papers, technical articles and patents. *Leisure interests:* photography, skiing, sailing, hiking, restoring old motor-cars. *Address:* Varian Associates, 611 Hansen Way, Palo Alto, Calif. (Office); 28014 Natoma Road, Los Altos Hills, Calif., U.S.A. (Home). *Telephone:* 493-4000 (Office); 948-5362 (Home).

GIOIA, Niccoló; Italian engineer and motor executive; b. 23 Dec. 1914, Florence; s. of Antonio Gioia and Elisa Martini; m. Laura Camino 1946; one s. four d.; Head of Dept., Fiat 1945; Deputy Head of Iron and Steel Dept. and Asst. to Dir.-Gen. 1958; Head of a Div. 1966; Deputy Dir.-Gen. 1967-69, Dir.-Gen. 1969-; and mem. Directing Cttee; mem. Consultative Cttee. ECSC; mem. Board for Int. Affairs 1976-. *Address:* Fiat S.p.A., Corso Marconi 10, 10100 Turin, Italy.

GIOLITTI, Antonio; Italian politician; b. 12 Feb. 1915, Rome; s. of Giuseppe and Maria Tami Giolitti; m. Elena D'Amico 1939; three c.; ed. Univ. of Rome; active in Resistance 1943-44; Communist mem. Constituent Assembly 1946; Under-Sec. of Foreign Affairs June-Oct. 1946; mem. Chamber of Deputies 1948-76, Pres. Comm. for Industry and Trade Chamber of Deputies 1963, 1964-70; joined Italian Socialist Party 1957, mem. Cen. Cttee. 1958-; Minister of the Budget and Econ. Planning 1963-64, 1970-72, 1973-74; Commr. for Co-ordination of Community Funds, Regional Policy, EEC Comm. 1977-. *Publications:* Riforme e rivoluzione 1957, Il Comunismo in Europa 1960, Un socialismo possibile 1967. *Leisure interests:* walking, reading, music. *Address:* Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium.

GIOSAN, Nicolae, PH.D.; Romanian politician; b. 30 Dec. 1921, Drîmbar, Alba County; ed. Faculty of Agric., Cluj, Agronomics Inst. Nicolae Bălcescu, Bucharest; Prof. Faculty of Agric. Cluj 1948-53; Prof. Agronomics Inst. Nicolae Bălcescu, Bucharest 1953-74; Man. Dir. Agronomics Research Station, Cluj 1955-57; Man. Dir. Inst. for Maize Farming Research, Fundulea, Bucharest 1957-62; Deputy Minister of Agric. and Forestry 1953-55; First Deputy Minister 1962-69; Agronomics; Corresp. mem. Romanian Acad. 1963-74; mem. 1974-; State Prize; Pres. Acad. of Agronomics and Forestry 1969-; alt. mem. Cen. Cttee. Romanian Communist Party (RCP) 1955-65, mem. 1965-; alt. mem. Exec. Political Cttee. Cen. Cttee. RCP 1974-; mem. Grand Nat. Assembly 1957-; mem. State Council 1972-74; mem. Exec. Bureau Nat. Council Socialist Unity Front 1974-; Pres. Grand Nat. Ass. 1974-. *Address:* Marea Adunare Națională, Bucharest, Romania. *Telephone:* 16 21 50.

GIRARD DE CHARBONNIÈRES, Guy de. L. EN D.; French diplomatist; b. 7 Jan. 1907; m. Countess Marianne de Rumerskirch 1948; one s. one d.; ed. Lycée Janson de Sailly, Ecole des Sciences politiques; Attaché French Embassy, Brussels 1930; Third Sec. London 1933, Second Sec. 1938, First Sec. 1941; joined Gen. de Gaulle's Comité Nat. 1943, Second Counsellor 1943, Dir. du Cabinet, Commissariat, later Ministry of Foreign Affairs 1943; First Counsellor 1944; Minister to Copenhagen 1945, Amb. 1947-51, to Argentina 1951-55, to Greece 1957-64, to Switzerland 1964-65; Diplomatic Counsellor to the French Govt. 1966-72; retd. 1973; Commdr. Légion d'honneur, Grand Cross Order of Dannebrog (Denmark), etc. *Address:* 06290 Saint Jean, Cap Ferrat, France. *Telephone:* (93) 01-31-58.

GIRAUD, André Louis Yves; French mining engineer and politician; b. 3 April 1925, Bordeaux; s. of René and Marie Thérèse (Gamet) Giraud; m. Claudine Mathurin-Edme 1949; two s. one d.; ed. Lycée de Bordeaux, l'Ecole Polytechnique, l'Ecole nat. supérieure du pétrole et des moteurs; Engineer with Ministry of Industry 1949; Head of Dept., Inst. français du pétrole 1951, Technical Dir. 1955, Deputy Gen. Dir. 1958-64, mem. Consultative Cttee. for Scientific and Technical Research 1960-64; Dir. of Motor Fuels, Ministry of Industry 1964-69; Vice-Pres. Régie nat. des Usines Renault 1965-71; Dir. Nat. Centre for Exploitation of Oceans 1967-69; Dir. Dept. of Educ. 1969-70; Admin.-Gen. (Govt. delegate), Commissariat for Atomic Energy 1970-78; Minister of Industry April 1978-; Dir. Electricité de France 1970-; Gen. Eng. of Mines 1973-; Pres. Admin. Council, l'Ecole Polytechnique 1974; Pres. Cie. Générale des matières nucléaires 1976-; Officier de la Légion d'honneur, Officier Ordre national du Mérite; Commdr. des Palmes académiques. *Address:* 60 avenue d'Iéna, 75116 Paris, France.

GIRAUDET, Pierre; French civil engineer and airline executive; b. 5 Dec. 1919, Koléa, Algeria; s. of Pierre Giraudet and Irma Basset-Villéon; m. Mireille Bougourd 1947; one s. two d.; ed. Coll. Notre Dame d'Afrique, Lycée Bugeaud, Science Faculty, Algiers. Head of Hydraulic Eng. Services, Moyen Cheliff, Algeria 1946-53; Head of Technical Service, Algerian Dept. of Hydraulic Eng. 1954-56; Head of Algiers Port Devt. 1956-60; Dir. of Works, Ind. Port of Le Havre 1961-67; Dir. of Investments, Paris Airport 1967-71, Deputy Gen. Man. 1971; Gen. Man. Régie Autonome des Transports Parisiens (R.A.T.P.), 1972-75; Chair. Air France Nov. 1975-; Officier, Légion d'honneur, Officier, Ordre national du Mérite. *Leisure interest:* yachting. *Address:* 1 square Max Hymens, 75015 Paris (Office); 78 avenue de Suffren, 75015 Paris, France (Home).

GIRI, Dr. Tulsi; Nepalese politician; b. Sept. 1926. Deputy Minister of Foreign Affairs 1959; Minister of Village Devt. 1960; Minister without Portfolio 1960; Minister of Foreign Affairs, the Interior, Public Works and Communications 1961; Vice-Chair. Council of Ministers and Minister of Palace Affairs 1962; Chair. Council of Ministers and Minister of Foreign Affairs 1962-65; mem. Royal Advisory Cttee. 1969-74; Adviser to the King 1974-; Prime Minister, Minister of Palace Affairs and Defence 1975-77. *Address:* Jawakpurdham, District Dhanuka, Nepal.

GIRI, Varahagiri Venkata; Indian diplomatist and politician; b. 10 Aug. 1894, Berhampur; m. Saraswathi Bai 1917; four s. seven d.; ed. Kallikote Coll., Berhampur and Nat. Univ. of Ireland; Trade Union leader for many years; fmr. Gen. Sec. and Pres. All-India Railwaymen's Fed.; twice Pres. All-India TUC; Indian workers' del. to Int. Labour Conference Geneva 1926; workers' rep. Second Round Table Conf., London 1931; mem. Central Legis. Assembly for several years; Minister of Labour, Industries, Commerce and Co-operation, Madras 1937-39; Minister in Madras Govt. again 1946-47; High Commr. for India in Ceylon 1947-51; Minister of Labour, Govt. of India 1952-54 (resigned Sept. 1954); Gov. Uttar Pradesh 1957-60, Kerala 1960-65, Mysore 1965-67; Vice-Pres. of India 1967-69, Acting Pres. May-Aug. 1969, Pres. 1969-74; Pres. Indian Conf. of Social Works 1958-60; Hon. D.Litt. (Banaras Hindu, Lucknow and Andhra Univs.), Hon. LL.D. (Agra, Moscow, Sofia and Bratislava Univs.). *Publications:* Industrial Relations, Labour Problems in Indian Industry, Jobs for Our Millions. *Address:* Girija, 1 Third Block, Jayanagar, Bangalore 56011, India.

GIROUD, Françoise; French journalist and politician; b. 21 Sept. 1916, Geneva, Switzerland; d. of Salih Gourdji and Elda Faragi; one s. (deceased), one d.; ed. Lycée Molière, Coll. de Groslay; began in cinema as script-girl 1932, Asst. Dir. 1937; Editor Elle 1945-52; Co-founder L'Express 1953, Editor 1953-71, Dir. 1971-74; Pres. Express-Union 1970-74; mem. Gov. Board of Express Group 1971-74; Sec. of State for Women's Affairs 1974-76, for Culture 1976-77; Vice-Pres. Parti Radical 1975-76. *Publications:* Le tout Paris 1952, Nouveaux portraits 1953, La nouvelle vague: portrait de la jeunesse 1958, Si je mens 1972, Une poignée d'eau 1973, La comédie du pouvoir 1977; films: Antoine et Antoinette 1947, La belle que voilà 1950, L'amour, madame 1951, Julietta 1953, Ce que je crois 1978. *Address:* c/o Editions Fayard, 75 rue des Saints-Pères, 75007 Paris, France.

GISCARD D'ESTAING, Edmond, L.ÈS L., D. EN D.; French financier; b. 29 March 1894, Clermont-Ferrand; s. of Valéry Giscard and Louise Monteil-Ansaldi; m. May Bardoux 1923; two s. (q.v. Valéry Giscard d'Estaing), three d.; ed. Univs. de Clermont-Ferrand and Paris; served French Army 1914-19; Insp. of Finance 1930; numerous financial missions abroad; Dir. of Finances to French High Commissariat Rhineland 1921-26; Hon. Pres. Soc. Financière pour la France et les Pays d'Outre-Mer; Hon. Pres. Soc. du Tunnel du Mont-Blanc; Dir. Bergougnan, Crédit Foncier Immobilier; Hon Pres. Secours Catholique; mem. Inst. de France (Acad. des Sciences Morales et Politiques); Grand Officier Légion d'honneur, Chevalier de l'Ordre de Malte, Commdr. de l'Ordre de Saint Grégoire le Grand, Commdr. de la Couronne de Belgique, Commdr. Grosses Verdienstkreuz (Austria), Commdr. Order of Dannebrog, Commdr. Order of Merit (Fed. Repub. of Germany), Commdr. Order of Merit (Italy), Officier de Saint-Maurice et Saint-Lazare (Italy), Croix de guerre (1914-18), Grand Officer Order of Isabel la Católica. *Publications:* Misère et splendeur des finances allemandes 1924, Capitalisme 1930, La maladie du monde 1933, Le chemin de la pauvreté 1947, La France et l'unification economique de l'Europe 1953, Réfractions 1957, Les finances: terre inconnue 1959, Le cahier beige 1973. *Address:* 101 avenue Henri Martin, Paris 16e; and Château de Varvasse, Chanonat (Puy de Dôme) (Home); 23 rue de l'Amiral d'Estaing, Paris 16e, France (Office). *Telephone:* 723-72-30 (Office); 504-69-53 (Home).

GISCARD D'ESTAING, François, L. EN DR.; French civil servant; b. 17 Sept. 1926; ed. Ecole Nat. d'Admin., Inst. d'Etudes

Politiques; Deputy Insp. of Finance 1952, Insp. 1954; Technical Adviser to Minister of Agriculture 1955-56, 1958-59, to Sec. of State for the Budget 1956-57; Head of Cen. Admin. Ministry of Agriculture 1957; Dir. Banque Cen. des Etats d'Afrique Equatoriale et du Cameroun 1959-68; Dir. Banque Française du Commerce Extérieur 1970-, Dir.-Gen. 1974-, Chair. 1977-; Mayor of Saint-Amant-Tallende 1965-71; Croix de guerre, Chevalier, Légion d'honneur, Officier Ordre national du Mérite. *Publication:* Notre-Dame de Paris—les rois retrouvés (with Michel Fleury and Alain Erlande-Brandenburg). *Leisure interests:* big-game hunting, archaeology. *Address:* 3 rue Louis Boilly, 75116 Paris, France. *Telephone:* 520-50-94.

GISCARD D'ESTAING, Valéry, K.C.B.; French politician and civil servant; b. 2 Feb. 1926, Koblenz Germany; s. of Edmond Giscard d'Estaing (q.v.) and May Bardoux; m. Anne-Aymone de Brantes 1952; two s. two d.; ed. Ecole Polytechnique, Ecole Nat. d'Admin.; Official, Inspection des Finances 1952, Insp. 1954; Deputy Dir. du Cabinet of Prés. du Conseil June-Dec. 1954; Deputy for Puy de Dôme 1956-58, re-elected for Clermont 1958, for Puy du Dôme 1962, 1967; Sec. of State for Finance 1959, Minister for Finance and Econ. Affairs 1962-66, 1969-74; Pres. Comm. des Finances, de l'Economie général et du plan 1967-68; Pres. of France May 1974-; Founder-Pres. Fed. Nat. des Républicains, Indépendants (from May 1977 Parti Républicain) 1965; Del. to UN Gen. Ass. 1956, 1957, 1958; Chair. OECD Ministerial Council 1960; Grand Maître, Ordre de la Légion d'honneur, Grand Maître, Ordre national du Mérite, Croix de guerre, Chevalier, Ordre de Malte, Grand Cross, Order of Isabel la Católica, etc. *Publications:* La démocratie française 1976. *Leisure interests:* shooting, skiing. *Address:* Palais de l'Elysée, 55 et 57 rue du Faubourg-Saint-Honoré, 75008 Paris; Varvasse, Chanonat (Puy de Dôme), France.

GISH, Lillian Diana; American actress; b. (as Lillian de Guiche) 14 Oct. 1896, Ohio. began acting at the age of five, in the theatre, and has appeared in many plays and films; long collaboration with D. W. Griffith; lecture tours of Europe and America 1969, 1970, 1971. *Plays include:* Camille, Dear Octopus, Hamlet (as Ophelia), Crime and Punishment, Life with Father, The Curious Savage, The Trip to Bountiful, The Chalk Garden, The Family Reunion, All the Way Home, A Passage to India, Too True to be Good, Romeo and Juliet (nurse) 1965, Anya (musical) 1965, I Never Sang for My Father 1968, Uncle Vanya, New York 1973, A Musical Jubilee (musical comedy) 1975; *films include:* An Unseen Enemy 1912, The Mothering Heart 1913, Judith of Bethulia 1913, Home Sweet Home 1914, The Birth of a Nation 1914, Intolerance 1916, Hearts of the World 1918, The Great Love 1918, Broken Blossoms 1918, The Greatest Question 1919, True Heart Susie 1919, Remodelling Her Husband (also dir.) 1920, Way Down East 1920, Orphans of the Storm 1922, The White Sister 1923, Romola 1924, La Bohème 1926, The Scarlet Letter 1926, Annie Laurie 1927, The Wind 1928, His Double Life 1934, The Commandos Strike at Dawn 1943, Miss Susie Slagle's 1946, Duel in the Sun 1946, Portrait of Jennie 1948, The Cobweb 1955, The Night of the Hunter 1955, Orders to Kill 1958, The Unforgiven 1959, Follow Me Boys 1966, Warning Shot 1966, The Comedians 1967, Arsenic and Old Lace (television) 1969, A Wedding 1978, Infinity in an Hour (television) 1978. *Publications:* Lillian Gish; an Autobiography 1968, The Movies, Mr. Griffith and Me 1969, Dorothy and Lillian Gish 1973. *Leisure interests:* travel, reading. *Address:* 430 East 57th Street, New York, N.Y. 10022, U.S.A.

GISLASON, Gylfi Th., DR. RER. POL.; Icelandic economist and politician; b. 17 Feb. 1917, Reykjavík; s. of Thorsteinn Gislason and Thórunn Pálsdóttir; m. Gudrún Vilmundardóttir 1939; three s.; ed. Reykjavik Coll., Univs. of Frankfurt am Main and Vienna; Lecturer of Econs., Univ. of Iceland 1941-46, Prof. 1946-56; mem. of Parl. 1946-; Minister of Educ. and Industries 1956-58, of Educ. and Commerce 1958-71; Prof. of Econs. 1972-; mem. Cen. Cttee. Social-Democratic Party 1942-, Sec. 1946-65, Vice-Chair. 1965-68, Chair. 1968-74; Chair. Social-Democratic Parl. Group 1974-78; Pres. of Parl. 1974; Gov. for Iceland, IMF 1956-65; Gov. for Iceland Int. Bank for Reconstruction and Devt. 1965-71; mem. Board of Govs. Iceland Bank of Devt. 1953-66, Devt. Fund of Iceland 1966-71, Nat. Theatre 1954-; Chair. State Research Council 1965-71; mem. Icelandic Science Soc.; Dr. Oecon. h.c. *Publications:* General Business Theory 1941, Bookkeeping 1942, Finance of Private Business Enterprises 1945, Management of Industrial Enterprises 1953, Accountancy 1955, The Marshall Plan 1948, Socialism 1949, Capitalism, Socialism and the Co-operative Movement 1950, The Foreign Policy of Iceland 1953, The Problem of Being an Icelander 1973, Enterprise and Society 1974, Fishery Economics 1975, Essays on Business Administration 1975, Book-keeping 1976, Book-keeping and Balance Sheets 1976, Essays on Commercial Law 1976. *Leisure interest:* music. *Address:* Althing Building, Reykjavík (Office); Aragata 11, Reykjavík, Iceland (Home).

GISLASON, Vilhjamur, M.A.; Icelandic educationist and writer; b. 16 Sept. 1897, Reykjavík; s. of Thorsteinn Gislason and Thórunn Pálsdóttir; m. Inga Arnadottir 1927; one s. two d.; ed. Reykjavík Univ.; fmr. Dir.-Gen. State Broadcasting Corp.; Chair. Nat. Theatre, etc. *Publications:* Islensk endurreisn 1923, Islensk Thjothfraethi 1924, Eggert Olafsson 1926, Snorri Sturluson og godafraedin 1942, Jon Sigurdsson i raedu og riti 1944, Sjómannasaga 1945, Eirkur a Brunum 1946, Bessastadir 1947, Reyjavík fyrrum og nú 1948, Reyjavík í myndum 1948, Brautryojendur 1950, Allingisrímur 1951, Mannfundir 1954, Gamlar myndir 1955, Islenzk verziun 1955, Tbúnadarbálkur 1968, Blöd og Bladamenn 1773-1943 1972; translated Victor Hugo, Dostoyevsky and others into Icelandic. *Address:* Starhagi 2, Reykjavík, Iceland.

GIULINI, Carlo Maria; Italian conductor; b. 9 May 1914; ed. Accad. S. Cecilia, Rome; Debut as conductor, Rome 1944; fmr. Dir., Italian Radio Orchestra; Principal Conductor Philharmonia Orchestra (London), Vienna Symphony Orchestra; Music Dir. Los Angeles Philharmonic Orchestra 1978-. *Address:* c/o Los Angeles Philharmonic, 135 N. Grand Ave., Los Angeles, Calif. 90012, U.S.A.

GIURANNA, Bruno; Italian viola player; b. 6 April 1933, Milan; ed. Coll. S. Giuseppe and Conservatorio di Musica Santa Cecilia, Rome, and Conservatorio di Musica S. Pietro a Maiella, Naples; Founder mem. I Musici 1951-61; Prof. Conservatorio G. Verdi, Milan 1961-65, Conservatorio S. Cecilia, Rome 1965-78, Prof. Acad. Chigiana 1966-; Prof. Nordwest-deutsche Musikakademie, Detmold, Germany 1969-; mem. Int. Music Competition jury, Munich 1961-62, 1967, 1969, Geneva 1968, Budapest 1975; soloist at concerts in festivals including Edinburgh Festival, Holland Festival and with orchestras including Berlin Philharmonic Orchestra, Amsterdam Concertgebouw Orchestra and Teatro alla Scala, Milan; Academician of Santa Cecilia 1974. *Address:* Via Misurina 71, 00135 Rome, Italy.

GIVEN, Edward Ferguson, C.M.G.; British diplomatist; b. 13 April 1919, Glasgow; ed. Sutton County School and Univ. Coll. London; Army 1939-46; Foreign Service 1946-; First Sec., Political Residency, Bahrain 1957-59; Counsellor, Beirut 1969-72; Amb. to Cameroon 1972-75, to Bahrain 1975-78. *Address:* c/o Foreign and Commonwealth Office, London, S.W.1, England.

GJAEREVOLL, Dr. Olav; Norwegian politician and scientist; b. 24 Sept. 1916, Tynset; s. of Gunnar and Kristine Gjaerevoll; m. Astri Skaar 1944; one s. one d.; ed. Uppsala Univ. and in U.S.A. and Canada; Teacher; Curator, Royal Scientific Soc. Museum 1947; joined staff, Teachers Training Coll., Trondheim 1947; Prof. of Botany Univ. of Trondheim 1958-; Minister of Social Affairs 1963-65; Rep. to Storting 1965-69; Minister of Prices and Wages 1971-72; Minister of the Environment 1972; mem. Trondheim Town Council 1952, Deputy Chair. 1955-58, Chair. 1958-63; Chair. Trondheim United Labour Party 1949-51, 1977-78; mem. State Nature Conservation Council 1958-, Chair. 1960-; Chair. Norwegian Inst. for Air Research 1974-, Steering Comm., UNESCO project Man. and Biosphere 1974-, Trondheim Univ. Board 1976-; mem. Royal Scientific Soc. 1951-, Acad. of Sciences 1958-. *Leisure interests:* mountain walking and skiing. *Address:* Valentinlystvn 9, Trondheim, Norway.

GJERDE, Bjartmar; Norwegian politician; b. 6 Nov. 1931, Sande Sunnmøre, Journalist Sunnmøre Arbeideravis 1948-53; Editor Fritt Slag 1953-58; Chair. Labour League of Youth 1958-61; mem. State Youth Council; Sec. Labour Parl. Group 1961-62; Chief. Sec. Workers' Educ. League 1962-71; mem. Council on Broadcasting 1963-, UNESCO Comm. 1964-66, Norwegian Cultural Council 1965-, Council on Adult Educ. 1966-71; Minister of Church and Educ. 1971-72, 1973-76, for Industries 1976-78, for Oil and Energy Jan. 1978-; mem. Labour Party Nat. Exec. 1973-. *Address:* c/o Department of Oil and Energy, Oslo, Norway.

GLADSTONE, Sir (Erskine) William, Bt., M.A.; British scout and former schoolmaster; b. 29 Oct. 1925, Eton; s. of Charles A. and Isla M. (née Crum) Gladstone; m. Rosamund A. Hambro 1962; two s. one d.; ed. Eton and Christ Church, Oxford; Royal Navy 1943-46; Asst. Master, Shrewsbury School 1949-50, Eton Coll. 1951-61; Headmaster, Lancing Coll. 1961-69; Deputy Lieut. of Flintshire 1969, Clwyd 1974; Chief Scout, U.K. and Overseas branches 1972-; Chair. Rep. Body, Church in Wales. *Leisure interests:* reading history, gardening, shooting. *Address:* Fasque, Laurencekirk, Kincardineshire; The Scout Association, Baden-Powell House, Queen's Gate, London, SW7 5JS(Office); Hawarden Castle, Deeside, Clwyd, England (Home). *Telephone:* 01-584 7030 (Office); Hawarden 532210; Fettercairn 341.

GLADWYN, 1st Baron (cr. 1960), of Bramfield; **Hubert Miles Gladwyn Jebb,** G.C.M.G., G.C.V.O., C.B.; British diplomatist; b. 25 April 1900; s. of Sydney and Rose (née Chichester) Jebb; m. Cynthia Noble 1929; one s. two d.; ed. Eton and Magdalen Coll., Oxford; entered Diplomatic Service 1924; served in Teheran and Rome; Private Sec. to Parl. Under-Sec. of State 1929-31; Private Sec. to Permanent Under-Sec. of State 1937-40; appointed to Ministry of Econ. Warfare 1940; Acting Counsellor in Foreign Office 1941; Head Reconstruction Dept., Foreign Office 1942-45; Counsellor 1943; appointed Exec. Sec. of Preparatory Comm. of UN Aug. 1945; Acting Sec.-Gen. of UN 1946; Asst. Under-Sec. of State in Foreign Office, 1946-49; Deputy Under-Sec. of State 1949-50; UK Rep. on Permanent Comm. of Treaty of Brussels, 1948; Permanent Rep. of U.K. to UN 1950-54; Amb. to France 1954-60; Deputy Leader Liberal Party, House of Lords; Pres. Campaign for a European Political Community; Vice-Chair. European Movt. U.K.; mem. European Parl. 1973-76; Ex-Pres. Atlantic Treaty Assn.; Hon. Pres. Atlantic Inst.; Hon D.C.L. (Syracuse 1951, Oxford 1954, Essex 1974), Grand Croix, Légion d'honneur 1957; Liberal. *Publications:* The European Idea 1966, Half-Way to 1984 1967, De Gaulle's Europe, or Why the General Says No 1969, Europe After De Gaulle 1970, The Memoirs of Lord Gladwyn 1972. *Address:* 62 Whitehall Court, London, S.W.1; Bramfield Hall, Halesworth, Suffolk, England. *Telephone:* 01-930 3160.

GLASBERGEN, Willem; Netherlands archaeologist; b. 24 July 1923, Noordwijk; s. of Abraham Glasbergen and Hendrika B. Anker; m. Ernestine Duyvis 1952; two s. five d.; ed. State Univ. at Groningen; Asst., Inst. for Biological Archaeology, State Univ. at Groningen 1942-52, Conservator 1953-54, Curator 1955-60; Extra. Prof. Univ. of Amsterdam 1956-60, Ordinarius 1960-; Dir. Inst. of Pre- and Protohistory 1957-72; mem. Royal Netherlands Acad. of Arts and Sciences 1959, Monuments Council 1959. *Publications:* Barrow Excavations in the Eight Beatitudes 1954, De Voorgeschiedenis der Lage Landen 1959, Beaker types and their distribution in the Netherlands 1955, De urn van Toterfout en de reformatie van de Britse bronstijd 1957, The Vlaardingen Culture 1962-63, Nogmaals HVS/DKS 1969, De Romeinse castella te Valkenburg Z.H. 1972, The Pre-Flavian garrisons of Valkenburg Z.H. 1974, Aartswoud 1978. *Leisure interest:* forestry. *Address:* Saxa Iuxta, Groningerweg 3, Diever (Dr.), Netherlands.

GLASER, Donald Arthur, PH.D.; American physicist; b. 21 Sept. 1926, Cleveland, Ohio; s. of William Joseph and Lena Glaser; one s. one d.; ed. Case Inst. of Technology, California Inst. of Technology; Univ. of Mich. 1949-59; Univ. of Calif. 1959-; Henry Russell Award 1955, Charles Vernon Boys Prize (The Physical Soc.) 1958, Nobel Prize 1960; Nat. Science Foundation Fellow 1961; Guggenheim Fellow 1961-62; Biophysicist, Univ. of Calif., Berkeley 1962-64; Prof. of Physics and Molecular Biology, Univ. of Calif. 1964-; mem. Nat. Acad. of Sciences; Hon. Sc.D.; several awards. *Publications:* Some Effects of Ionizing Radiation on the Formation of Bubbles in Liquids 1952, A Possible Bubble Chamber for the Study of Ionizing Events 1953, Bubble Chamber Tracks of Penetrating Cosmic-Ray Particles 1953, Progress Report on the Development of Bubble Chambers 1955, Strange Particle Production by Fast Pions in Propane Bubble Chamber 1957, Weak Interactions: Other Modes, Experimental Results 1958, The Bubble Chamber 1958, Development of Bubble Chamber and Some Recent Bubble Chamber Results in Elementary Particle Physics 1958, Decays of Strange Particles, 1959, Computer Identification of Bacteria by Colony Morphology 1972, Effect of Nalidixic Acid on DNA Replication by Toluene-treated E. coli 1973, The Isolation and Partial Characterization of Mutants of E. coli and Cold-sensitive Synthesis of DNA 1974, Rates of Chain Elongation of Ribosomal RNA Molecules in E. Coli 1974, Chromosomal Sites of DNA-membrane Attachment in E. coli 1974, Effect of Growth Conditions in DNA-membrane Attachment in E. coli 1975, Characteristics of Cold-sensitive Mutants of E. coli K12 Defective in Deoxyribonucleic Acid Replication 1975; many papers written jointly with other physicists. *Leisure interests:* skiing, sailing, skin diving, music. *Address:* 229 Molecular Biology-Virus Laboratory, University of California, Berkeley, Calif. 94720, U.S.A.

GLASS, H(iram) Bentley, PH.D.; American professor of biology; b. 17 Jan. 1906, Laichowfu, Shantung, China; s. of Wiley B. and Eunice (Taylor) Glass; m. Suzanne G. Smith 1934; two c.; ed. Baylor Univ. and Univ. of Texas; Teacher, Timpson High School, Timpson Tex. 1926-28, Stephens Coll., Columbia, Mo. 1934-38, Goucher Coll., Baltimore, Md.; Assoc. Prof. of Biology, Johns Hopkins Univ. 1947-52, Prof. 1952-65; Acad. Vice-Pres. (1965-71) and Distinguished Prof. of Biology, State Univ. of New York at Stony Brook 1965-; Asst. Editor Quarterly Review of Biology 1945-48, Assoc. Editor 1949-57, Editor 1958-; mem. Advisory Cttee. on Biology and Medicines, Atomic Energy Comm. 1956-63, Chair. 1962-63; mem. Nat. Acad. of Sciences Cttee. on Genetic Effects of Atomic Radiation 1955-64; mem. Continuing Cttee. Pugwash-COSWA Confs. 1958-64; Chair. Biological Sciences Curriculum Study 1959-65, Board Chair. Cold Spring Harbor Lab. 1967-73; Lecturer at numerous orgs. Pres. Fund for Overseas Research and Educ. 1966-, American Assn. for Advancement of Science 1969, Nat. Assn. Biology Teachers 1971, American Assn. of Univ. Profs. 1958-60, American Soc. of Naturalists 1965, American Inst. of Biological Sciences 1954-56, American Soc. of Human Genetics 1967; Vice-Pres. Genetic Soc. of America 1960; Chair. Section of Zoology and Anatomy, Nat. Acad. of Sciences 1964-67, Class II (Biological Sciences) 1968-71; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc.; Foreign mem. Czechoslovak Acad. of Sciences; numerous hon. degrees. *Publications:* Genes and the Man 1943, Science and Liberal Education 1960, Science and Ethical Values 1965, Genetic Continuity: A Laboratory Block 1965, Genetic Continuity: A Laboratory Block, Teacher's Supplement 1965, The Timely and the Timeless 1970; Editor of numerous symposia and surveys, and collaborator on other books; numerous articles. *Leisure interests:* music, philately (China). *Address:* State University of New York at Stony Brook, Stony Brook, N.Y. 11790, U.S.A. *Telephone:* 516-246-5027.

GLASSER, Georges Charles; French industrialist; b. 24 Aug. 1907, Paris; m. Huguette Farjon 1934; three d. Hon. Pres. Soc. Alsthom Atlantique; Pres. and Man. Dir. Soc. CGEE Alsthom, Soc. Stein Industrie; Hon. Pres. Soc. Nat. Sud-Aviation, Union Syndicale des Industries Aéronautiques, Fédération Industries Electriques et Electroniques; Commdr. Légion d'honneur, Chevalier du Mérite agricole, Grand Officer, Order of Orange-Nassau, Médaille de l'Aéronautique, Commdr. Order of the Lion (Finland), Commdr. du Mérite sportif. *Leisure interests:* tennis, golf. *Address:* 3 rue Dangeau, Paris 75016, France. *Telephone:* 520-1305.

GLASSPOLE, Florizel Augustus; Jamaican politician; b. 25 Sept. 1909; ed. Ruskin Coll., Oxford; Gen. Sec., Jamaica United Clerks Assn. 1937-38, Jamaica TUC 1938-52; Pres. Jamaica Printers and Allied Workers Union 1942-48; Gen. Sec. Water Comm. and Manual Workers Assn. 1941-48; Pres. Machado Employees Union 1952-55; mem. House of Reps. 1944-73; Minister of Labour 1955-57, of Educ. 1957-62, 1972-73; Leader House of Reps. 1955-62, 1972-73; mem. House of Reps. Cttee. examining Jamaica's independence constitution; mem. Del. agreeing Constitution with British Govt. 1962; Gov.-Gen. of Jamaica 1973-. *Address:* Governor-General's House, Kingston, Jamaica.

GLAZER, Nathan, PH.D.; American educationist; b. 25 Feb. 1923, New York; s. of Louis and Tillie (Zacharevich) Glazer; m. 1st Ruth Slotkin 1943 (divorced 1958), 2nd Sulochana Raghaven 1962; three d.; ed. City Coll. of New York, Univ. of Pennsylvania and Columbia Univ; mem. of staff, Commentary Magazine 1944-53; Editor and Editorial Adviser, Doubleday Anchor Books 1954-57; Visiting Lecturer, Univ. of Calif., Berkeley 1957-58; Instructor, Bennington Coll., Vermont 1958-59; Visiting Lecturer, Smith Coll. 1959-60; Prof. of Sociology, Univ. of Calif., Berkeley 1963-69; Prof. of Educ. and Social Structure, Harvard Univ. 1969-; Fellow, Center for Advanced Study in the Behavioural Sciences, Stanford, Calif. 1971-72; mem. American Acad. of Arts and Sciences, American Sociological Assn.; Guggenheim Fellow 1954, 1966; Hon.LL.D. (Franklin and Marshall Coll.) 1971, LL.D. (Colby Coll.) 1972. *Publications:* American Judaism 1957, 1972, The Social Basis of American Communism 1961, Remembering the Answers 1970, Affirmative Discrimination 1976; Co-author: The Lonely Crowd 1950, Faces in the Crowd 1952, Studies in Housing and Minority Groups 1960, Beyond the Melting Pot 1963 (2nd edn. 1970); Co-editor: The Public Interest 1973-. *Address:* Graduate School of Education, Harvard University, Gutman Library, 6 Appian Way, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-4671.

GLAZUR, Adam, M.SC.; Polish engineer and politician; b. 1933, Kołaczye near Jasło; ed. Electrical Faculty, Mining Acad., Cracow; Chief Power Engineer, later Chief Engineer, then Dir., Glass Works at Krosno 1954-64; Head of Dept. in Ministry of Construction and Construction Materials Industry 1964-69, Under-Sec. of State 1969-74, First Deputy Minister 1974-75, Minister of Construction and Construction Materials Industry May 1975-; mem. Polish United Workers' Party (PZPR), deputy mem. Central Cttee. PZPR 1975-; Special State Prize 1978, Knight's Cross, Order of Polonia Restituta, Order of Banner of Labour (1st Class) 1976. *Address:* Ministerstwo Budownictwa i Przemyslu Materiałów Budowlanych, ul. Wspólna 2, 00-505 Warsaw, Poland.

GLEASON, Andrew Mattei, B.S.; American mathematician; b. 4 Nov. 1921, Fresno, Calif.; s. of Henry Allan Gleason and Eleanor Theodalinda Mattei; m. Jean Berko 1959; three d.; ed. Yale Univ;

U.S. Navy 1942-46, 1950-52; Junior Fellow of Soc. of Fellows, Harvard Univ. 1946-50, Asst. Prof. of Mathematics 1950-53, Assoc. Prof. 1953-57, Prof. of Mathematics 1957-69, Hollis Prof. of Mathematicks and Natural Philosophy 1969-; mem. Nat. Acad. of Sciences; Hon. M.A.; Newcomb-Cleveland Prize of A.A.A.S. 1952. *Publication:* Fundamentals of Abstract Analysis 1966. *Address:* Department of Mathematics, Harvard University, Cambridge, Mass. 02138 (Office); 110 Larchwood Drive, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 495-4316 (Office); 864-5095 (Home).

GLEICH, Walter A.; German business executive; b. 4 Nov. 1924, Hamburg; s. of Walter H. and Ferdinande (née von Gossler) Gleich; m. Inta Köhn; four d.; ed. High School, Hamburg; joined Norddeutsche Affinerie 1942, mem. Man. Board 1961-, Pres. 1976-; numerous other appointments. *Leisure interests:* sailing, tennis. *Address:* Norddeutsche Affinerie, Alsterterrasse 2, 2000 Hamburg 36, Federal Republic of Germany. *Telephone:* 44-19-61.

GLEMSER, Oskar Max, DR.-ING., German chemist; b. 12 Nov. 1911, Stuttgart; s. of Karl Glemser and Amalie Gogel; m. Ida-Maria Greiner 1938; one s. one d.; ed. Gymnasium Bad-Canstatt and Technische Hochschule, Stuttgart; Sr. Engineer, Inst. for Inorganic Chemistry and Electro Chemistry, Technische Hochschule, Aachen 1939-41, Dozent 1941-48, Extra-Mural Prof. 1948-52; Prof. and Dir. of the Inst. of Inorganic Chemistry Univ. of Göttingen 1952-; Pres. of Acad. of Sciences, Göttingen 1962-70; mem. Bureau IUPAC; mem. Leopoldina German Acad. for Scientific Research, Halle, Austrian Acad. of Sciences, Centro Superiore di Logica e Scienze Comparate, Bologna; Pres. German Chemical Soc.; Dr. Ing.e.h., Dr. h.c.; Liebig Medal of German Chemical Soc. 1970; Silver Medal of Univ. of Helsinki 1972. *Leisure interests:* archaeology, literature, skiing, swimming. *Address:* Anorganisch-Chemisches Institut der Universität Göttingen, Tammannstrasse 3, 34 Göttingen (Office); Richard-Zsigmondy Weg 10, 34 Göttingen, Federal Republic of Germany (Home). *Telephone:* 0551-393002 (Office); 0551-57814 (Home).

GLEN, Sir Alexander Richard, K.B.E., D.S.C.; British business executive; b. 18 April 1912; ed. Fettes Coll., and Balliol Coll., Oxford; Organizer and Leader, Oxford Univ. Arctic Expedition 1933, 1935-36; Banking, New York and London 1936-39; R.N.V.R. 1939-59; Chair. H. Clarkson & Co. Ltd. 1962-72; Deputy Chair. Export Council for Europe 1960-64, Chair. 1964-66; mem. Council Royal Geographical Soc. 1945-47, 1954-57, 1961-62; mem. Council, Mount Everest Foundation 1955-57; Chair. British Tourist Authority 1969-77; mem. Historic Bldgs. Council for England 1976-, Horserace Totalisator Board 1976-, Advisory council, Victoria and Albert Museum 1976-; numerous medals and decorations. *Publications:* Young Men in the Arctic 1935, Under the Pole Star 1937, Footholds Against a Whirlwind 1975. *Address:* Stanton Court, Stanton, Glos., England.

GLEN, Robert, O.C., PH.D., F.R.S.C., F.A.I.C.; Canadian entomologist and research administrator; b. 20 June 1905, Paisley, Scotland; s. of James Allison Glen and Jeannie Blackwood Barr; m. Margaret Helen Cameron 1931; two s.; ed. Univs. of Saskatchewan and Minnesota; Jr. and Asst. Entomologist, Dominion Entomological Lab., Saskatoon, Sask. 1928-35, in charge wireworm investigations, Dominion Entomological Lab. 1935-45; Research Co-ordinator, Entomology Div., Canada Dept. of Agriculture, Ottawa 1945-50, Chief, Entomology Div. 1950-57; Assoc. Dir. Science Service, Canada Dept. of Agriculture 1957-59; Dir.-Gen. Research Branch, Canada Dept. of Agriculture 1959-62, Asst. Deputy Minister (Research) 1962-68; Sec. Commonwealth Scientific Cttee. 1968-72; Fellow, Entomological Soc. of Ontario; Pres. E. Ontario Branch, Agricultural Inst. of Canada 1950-51, Entomological Soc. of Canada 1957, Entomological Soc. of America 1962; Caleb Dorr Fellowship, Univ. of Minn. 1931-32; Shevlin Fellowship, Univ. of Minn. 1932-33; mem. Science Council of Canada 1966-68; Foreign Assoc. Nat. Acad. of Sciences (U.S.A.) 1967; Outstanding Achievement Award, Univ. of Minn. 1960; Hon. LL.D. (Univ. of Sask.) 1959, Hon. D.Sc. (Ottawa) 1960; Entomological Soc. of Canada 1964, Medal of Service Order of Canada 1967, etc.; Hon. mem. Canadian Seed Growers Assn. 1968 (for life), Entomological Soc. of America 1972, of Canada 1975. *Publications include:* Elaterid larvae of the tribe Lepturoidini 1950, and reports on Canadian entomology 1954-56. *Leisure interests:* sports, gardening, golf. *Address:* 4523 Juniper Place, Victoria, B.C., V8N 3KI, Canada. *Telephone:* 477-5924.

GLENAMARA, Baron (Life Peer), cr. 1977, of Glenridding in the county of Cumbria; **Edward Watson Short,** P.C., C.H.; British politician; b. 17 Dec. 1912; ed. Bede Coll., Durham; served Second World War and became Capt. in Durham Light Infantry; Headmaster, Princess Louise County Secondary School, Blyth, Northumberland 1947; Leader Labour Group, Newcastle City Council 1950; M.P. for Newcastle upon Tyne Central 1951-76; Opposition Whip (N. Area) 1955-62; Deputy Chief Opposition Whip 1962-64; Parl. Sec. to Treasury and Govt. Chief Whip 1964-66; Postmaster-Gen. 1966-68; Sec. of State for Educ. and Science 1968-70; Deputy Leader of Labour Party 1972-76; Lord Pres. of Council, Leader of House of Commons 1974-76; Chair. Cable and Wireless Co. Oct 1976-. *Publications:* The Story of the Durham Light Infantry 1944, The Infantry Instructor 1946, Education in a Changing World 1971, Birth to Five 1974. *Address:* House of Lords, London S.W.1; 4 Patterdale Gardens, Newcastle upon Tyne 7, England.

GLENKINGLAS, Baron (Life Peer) cr. 1974, of Cairndow; **Michael Antony Cristobal Noble,** P.C.; British politician; b. 19 March 1913; s. of Sir John Noble, Bt.; m. Anne Pearson 1940; four d.; ed. Eton Coll. and Magdalen Coll., Oxford; served with R.A.F.V.R. 1941-45; M.P. 1958-74; Scottish Whip 1960-62; Sec. of State for Scotland 1962-64; Chair. Associated Fisheries Ltd. 1966-70; Chair. Glendevon Farms (Winchburgh) 1969-; Minister for Trade 1970-72; Chair British Agricultural Export Council 1973-77; dir. John Brown Eng. 1973-77, D.A. Monteith Holdings Ltd. 1974; Conservative. *Address:* Strone, Cairndow, Argyll, Scotland.

GLENN, Sir Archibald (*see* Glenn, Sir Joseph Robert Archibald).

GLENN, Lt.-Col. John Herschel, Jr., D.F.C. (8 times) and Air Medal with 18 clusters; American politician, aviator and astronaut; b. 18 July 1921; ed. Muskingum Coll., Univ. of Maryland; naval aviation cadet 1942; commissioned Marine Corps 1943; Marine Fighter Squadron 155 in Marshall Islands 1944 (59 combat missions); mem. Fighter Squadron 218 North China Patrol; Instructor Corpus Christi, Texas 1948-50; Marine Fighter Squadron Korea (63 missions); Fighter Design Branch, Navy Bureau of Aeronautics, Washington 1956; speed record Los Angeles—New York (3 hr. 23 min.) 1957; training for space flight 1960-61. completed 3 orbits of the earth in Spaceship Friendship VII, 20th Feb. 1962; resigned from U.S. Marine Corps 1965; Dir. Royal Crown Cola Co. 1965-74; Consultant to NASA; U.S. Senator from Ohio Jan. 1975-; NASA Distinguished Service Medal 1962; U.S. Nat. Space Hall of Fame Award 1969. *Publication:* (co-author) We Seven 1962. *Address:* U.S. Senate, Washington, D.C. 20510; and 203 Sleepy Hollow Court, Timbercove, Seabrook, Texas, U.S.A.

GLENN, Sir (Joseph Robert) Archibald, Kt, O.B.E., B.C.E. F.I.E. (AUST.), M.I.CHEM.E.; Australian chemicals executive and engineer; b. 24 May 1911, Sale, Victoria; s. of Joseph Robert Glenn; m. Elizabeth M. M. Balderstone 1939; one s. three d.; ed. Scotch Coll., Melbourne, Melbourne and Harvard Univs.; Chief Engineer ICI Australia Ltd. 1947-49, Gen. Man. 1949-53, Man. Dir. 1953-73, Chair. 1963-73; Dir. ICI Ltd. 1970-75; Chair. Fibremakers Ltd. 1963-73; Dir. Bank of New South Wales 1967-; Chair. IMI Australia Ltd. 1970-78, Collin Wales Pty. Ltd. 1973-; Dir. Alcoa Australia Ltd. 1973-, Hill Samuel Australia Ltd. 1973-, Tioxide Australia Ltd. 1973-, IC Insurance Australia Ltd. 1974-; Dir. Westralian Sands Ltd. 1977-, Newmont Pty. Ltd. 1977-; Gov. Atlantic Inst. of Int. Affairs; Chair. Council, Scotch Coll., Ormond Coll. Council 1976-; Chancellor, La Trobe Univ., Melbourne 1966-72. *Leisure interests:* tennis, golf, farming. *Address:* 3 Heyington Place, Toorak 3142, Victoria, Australia (Home). *Telephone:* 6620201 (Office); 204453 (Home).

GLENNAN, T. Keith, B.S.; American engineer and administrator; b. 8 Sept. 1905, Enderlin, N.D.; s. of late Richard Henry Glennan and Margaret Laing Pauline; m. Ruth Haslup Adams 1931; one s. three d.; ed. Eau Claire (Wis.) High School, Eau Claire State Teachers' Coll., and Yale Univ. Sheffield Scientific School; Western Electric Co. Ltd. 1928-30; Electrical Research Products Co. 1930-35; Paramount Pictures Inc. 1935-41; Studio Man. Samuel Goldwyn Studios 1941-42; Admin., later Dir. U.S. Navy Underwater Sound Lab. (Columbia Univ. Div. of War Research), New London, Conn. 1942-45; exec. with Ansco, Binghamton (New York) 1945-47; Pres. Case Inst. of Technology, Cleveland 1947-66; mem. Atomic Energy Comm. 1950-52; First Admin. NASA 1958-61; Pres. Associated Univ. Inc. 1965-68; Dir. Republic Steel Corpn., and other companies; U.S. Rep. (rank of Amb.) to IAEA 1970-73; Consultant, U.S. Dept. of State 1973-; Trustee Rand Corpn. 1963-73, Aerospace Corpn. 1969-70, 1974-77, Case Western Reserve Univ. 1971-78; Fellow, American Acad. of Arts and Sciences, Nat. Acad. of Eng.; Medal for Merit; Hon. LL.D. (Tulane, Miami, Western Reserve Univ., Columbia Univ.); Hon. D.Sc. (Oberlin Coll., Clarkson Coll. of Technology, John Carroll, Akron, Toledo, Muhlenberg Coll., Cleveland State); Hon. D.Eng. (Stevens Inst. of Tech., Case Inst. of Tech., Fenn Coll.); Hon. M.A. (Yale); Univ. Medal of Honor (Rice Univ.), NASA Distinguished Service Medal 1966, U.S. State Dept. Distinguished Honor Award 1973; Benjamin Franklin Fellow (Royal Soc. of Arts, London). *Leisure interests:* woodworking, public service, new towns. *Address:* 11483 Waterview Cluster, Reston, Va. 22090, U.S.A. *Telephone:* 703-471-4210.

GLESKE, Leonhard, DR.RER.POL.; German banker; b. 18 Sept. 1921; mem. of the Board and mem. Central Bank Council, Deutsche Bundesbank; fmr. Dir. Bank for Int. Settlements. *Address:* Wilh.-Epstein-Strasse 14, D-6000 Frankfurt 1950, Federal Republic of Germany.

GLIGOROV, Kiro; Yugoslav politician; b. 3 May 1917, Štip; s. of Blagoje and Katarina Gligorov; m. Nada Gligorov; one s. two d.; ed. Faculty of Law, Univ. of Belgrade; mem. Presidium of Antifascist Ass. of People's Liberation of Macedonia, and Antifascist Council People's Liberation of Yugoslavia during Second World War; Deputy Sec.-Gen. to Govt. of Yugoslavia 1946-47; Asst. Minister of Finance 1947-52; Prof. of Econs. Belgrade Univ. 1948-49; Deputy Dir. Exec. Council for Gen. Econ. Affairs 1955-62; Fed. Sec. for Finance 1962-67; Vice-Pres. Fed. Exec. Council 1967-69; mem. Exec. Bureau of Presidency of League of Communists of Yugoslavia 1969-74; mem. Presidency, Socialist Fed. Repub. of Yugoslavia 1971-72, League of Communists of Yugoslavia 1974-; Pres. Parl. 1974-78; holder of many Yugoslav and foreign honours. *Publications:* many articles and studies in finance and economics. *Leisure interests:* tennis, hunting. *Address:* Bulevar Oktobarske revolucije 14, Belgrade, Yugoslavia. *Telephone:* 640-687.

GLISTRUP, Mogens; Danish lawyer and politician; b. 28 May 1926, Rønne; s. of Lektor Lars Glistrup; m. Lene Borup Svendsen 1950; one s. three d.; ed. Rønne, Copenhagen Univ.; training in American law Univ. of Calif., Berkeley 1951-52; teacher in income tax law Univ. of Copenhagen 1956-63; law practice 1950-, own firm 1956-; founded Progress Party 1972; mem. Parl. 1973-; on trial for alleged tax evasion and fraud 1974-78, convicted Feb. 1978 on charges of infringing tax laws. *Publication:* Skatteret 1957. *Leisure interests:* chess, bicycling, bridge, football. *Address:* 100 Skovbrynet, DK2800 Kongers Lyngby, Denmark. *Telephone:* 01-878545.

GLOB, Peter Vilhelm, DR.PHIL.; Danish archaeologist and museum director; b. 20 Feb. 1911, Kalundborg; ed. Univ. of Copenhagen; Archaeological expedition, Greenland 1932-33, 1953; Chief of Danish Archaeological Expeditions, Bahrain 1953-65, Qatar 1957-64, Kuwait 1958-62; Prof. of Archaeology and Prehistory of Europe, Aarhus Univ. 1949-60; Danish Rigsantikvar (Dir.-Gen. of Central Office and of Museum of National Antiquities in Denmark) 1960-. *Publications:* Eskimo Settlements in Kempe Fjord and King Oscar Fjord 1935, Études sur la civilisation des sépultures individuelles de Jutland 1945, Eskimo Settlements in North East Greenland 1946, Ard and Plough 1951, Danish Antiquities II 1952, Grauballemanden 1959, Hommes des tourbières 1965, Vorzeitdenkmäler Dänemarks 1968, Al-Bahrain 1968, Rock Carvings in Denmark 1969, The Mound People 1974. *Address:* National Museum, Frederiksholms Kanal 12, 1220 Copenhagen K. Denmark. *Telephone:* 01-134411.

GLOCK, Sir William Frederick, Kt., C.B.E.; British musician; b. 3 May 1908, London; s. of William G. Glock and Gertrude Maltby; m. Anne Balfour (née Geoffroy-Dechaume) 1952; ed. Christ's Hospital, West Horsham, Gonville and Caius Coll., Cambridge and under Artur Schnabel, Berlin; Music critic, Daily Telegraph 1934, The Observer 1934-45, New Statesman 1958-59; served with R.A.F. 1941-46; Dir. Summer School of Music, Bryanston 1948-52, Dartington Hall, Devon 1953-; Founder and Editor The Score 1949-61; Chair. British Section, Int. Soc. of Contemporary Music 1954-58; Controller of Music, BBC 1959-72; mem. Board of Dirs. Royal Opera House, Covent Garden 1968-73; Dir. Bath Festival 1975-; Chair. London Orchestral Concert Board 1975-; Hon. mem. Royal Philharmonic Soc.; mem. Arts Council of G.B. 1972-75; Hon. D.Univ. (York); Hon. D.Mus (Nottingham); Gold Medal of R.S.A. *Address:* Sudbury House, Faringdon, Oxon., England. *Telephone:* 0367-20381.

GLOCKER, Richard, PH.D.; German physicist; b. 21 Sept. 1890; ed. Munich Univ.; Lecturer, Stuttgart Technical Univ. 1919, and Extra. Prof. 1923; Prof. for Röntgen-Technique 1925 now Prof. Emer.; Head of X Ray Lab. and mem. Council of Max Planck Inst. for Metal Research (retd. 1961); Hon. mem. Deutsche Röntgen-Gesellschaft, Deutsche Gesellschaft für Metallkunde, Gesellschaft für Biophysik, Deutsche Gesellschaft für Medizinische Physik; Co-Editor Fortschritte auf dem Gebiet der Röntgenstrahlen und der Nuklear-medizin; Dr. Med. h.c. *Publications:* Materialprüfung mit Röntgenstrahlen 1927 (5th edn. 1970 with Macherauch), Röntgen- und Kernphysik fur Mediziner und Biophysiker 1965. *Address:* Robert Boschstrasse 10, Stuttgart N., Federal Republic of Germany.

GLOSSBRENNER, Alfred S.; American businessman; b. 6 June 1901, Indianapolis Ind.; s. of Alfred M. Glossbrenner and Minnie M. Stroup; m. 1923; two s.; ed. Univ. of Wisconsin; with tin plate plant, American Sheet and Tin Plate Co. 1930-31; Foreman, South Chicago plant, Ill. Steel 1932-35; Asst. Supt. Campbell hot strip mill, Youngstown Sheet and Tube Co. 1935-36, Supt. 1936-42, Supt. Brier Hill Works 1942-43, Gen. Supt. Youngstown Dist. 1943-47, Asst. Vice-Pres. 1947-50, Vice-Pres. (Operations) 1950-56, Pres. 1956-65, Dir. 1953-, Chief Exec. Officer 1960-66, Chair. Exec. Cttee. 1963-, Chair. of Board 1965-; Dir. Youngstown Steel Door Co., Dollar Savings and Trust Co., Nat. City Bank of Cleveland, Ohio Bell Telephone Co., Lykes Youngstown Corpn.; mem. Board YMCA, Youngstown Community Chest; official of other business and educational orgs. *Leisure interest:* golf. *Address:* Box 900, Youngstown, Ohio 44501 (Office); 2782 Logan Road, Youngstown, Ohio, U.S.A. (Home).

GLOSSOP, Peter; British opera singer (baritone); b. 6 July 1928, Sheffield; s. of Cyril Glossop and Violet Elizabeth Wright; m. Joyce Blackham 1955 (divorced 1976); ed. High Storrs Grammar School, Sheffield; joined Sadler's Wells Opera 1952; with Covent Garden Opera Co. 1962-66; freelance singer 1966-; First Prize Bulgarian First Competition for Young Opera Singers 1961; debut at La Scala, Milan as Rigoletto 1965; Hon. D.Mus. (Sheffield) 1970. *Leisure interests:* antiquities and squash racquets. *Address:* Elmcroft, 91 Cambridge Road, Teddington, Middx., England.

GLOUCESTER, H.R.H. The Duke of; Prince Richard Alexander Walter George, G.C.V.O., the Earl of Ulster and the Baron Culloden; b. 26 Aug. 1944; s. of the late Duke of Gloucester (third s. of H.M. King George V) and The Lady Alice Montagu-Douglas-Scott (d. of the 7th Duke of Buccleuch); m. Birgitte van Deurs 1972; one s. (Alexander, Earl of Ulster) one d. (Lady Davina Windsor); ed. Wellesley House, Broadstairs, Eton Coll. and Magdalene Coll., Cambridge; Corporate mem. R.I.B.A. 1972; Commdr.-in-Chief St. John Ambulance Brigade 1972-74; Col.-in-Chief Gloucestershire Regt. 1974-, Royal Pioneer Corps 1977-; Hon. Col. Royal Monmouthshire Royal Engineers (Militia) 1977-; Grand Prior Order of St. John 1975-; Royal Trustee, British Museum 1973-; Pres. Inst. of Advanced Motorists 1971, Cancer Research Campaign 1973, Nat. Assen. of Boys' Clubs 1974, Christ's Hosp. 1975, St. Bartholomew's Hosp. 1975, Royal Smithfield 1975; as Rep. of H.M. The Queen visited Australia 1963, wedding of Crown Prince of Nepal 1963, seventieth birthday celebrations of King Olav V of Norway 1973, Mexico 1973, Nepal 1975, Saudi Arabia and the Philippines 1975, independence celebrations of Seychelles 1976 and of Solomon Islands 1978, Australia and Holland 1979; K.St.J. *Publications:* On Public View, The Face of London. *Address:* Kensington Palace, London, W.8, England.

GLOVER, Clive Edward, M.A.; Canadian diplomatist; b. 7 May 1918, Fort William; s. of Edward Hardcastle Glover and Rena Mae Marsh; m. Stelle Boychuk 1941; one s. one d.; ed. Univ. of W. Ontario, Johns Hopkins Univ., Baltimore U.S.A.; served Royal Canadian Air Force for five years in World War II; joined Diplomatic Service 1950, served in Mexico, D.F., Caracas, Berne, Hanoi, Saigon, Rio de Janeiro, London; Counsellor 1962-74; High Commr. in New Zealand, Fiji, Tonga and Western Samoa 1974-79. *Leisure interests:* golf, tennis, piano, reading. *Address:* Candian High Commission, ICI House, Molesworth Street, Wellington (Office); 11 Dillon Street, Lowry Bay, Eastborne, New Zealand (Home). *Telephone:* 739-577 (Office).

GLUBB, Lieut.-Gen. Sir John Bagot, K.C.B., C.M.G., D.S.O., O.B.E., M.C.; British officer; b. 16 April 1897, Preston, Lancs.; s. of Maj.-Gen. Sir Frederic Manley Glubb and Frances Letitia (née Bagot); m. Muriel Forbes 1938; two s. two d.; ed. Cheltenham and Royal Military Acad., Woolwich; 2nd Lieut. Royal Engineers 1915, served France; served Iraq 1920; Admin Insp. Iraq Govt. 1926; Officer Commdg. Desert Area, Transjordan 1930; Officer Commdg. Arab Legion, Transjordan (now Jordan) 1938-56. *Publications:* Story of the Arab Legion 1948, A Soldier with the Arabs 1957, Britain and the Arabs 1959, War in the Desert 1960, The Great Arab Conquests 1963, The Empire of the Arabs 1963, The Course of Empire 1965, The Lost Centuries 1967, Syria, Lebanon and Jordan 1967, A Short History of the Arab Peoples 1968, The Life and Times of Muhammad 1970, Peace in the Holy Land 1971, Soldiers of Fortune, the Story of the Mamelukes 1973, The Way of Love 1974, Haroon Al Rasheed and the Great Abbasids 1976, Into Battle 1978, Arabian Adventures 1978. *Leisure interests:* religion, motoring, reading, travel. *Address:* West Wood St. Dunstan, Mayfield, Sussex, England. *Telephone:* 04-355 3136.

GLUECK, Sheldon, LL.M., PH.D.; American criminologist; b. 15 Aug. 1896, Warsaw, Poland; s. of Charles and Anna (Steinhardt) Glueck; m. Eleanor Touroff 1922 (deceased 1972); one d. (deceased); ed. George Washington Univ., Nat. Univ. Law School and Harvard Univ. Instructor, Dept. of Social Ethics, Harvard Univ. 1925-29; Asst. Prof. of Criminology, Harvard Univ. Law School 1929-31, Prof. 1931-50, Roscoe Pound Prof. of Law 1950-63, Emer. 1963-; Dir. Basic Researches into Causes, Man. and Prevention of Juvenile

Delinquency, Harvard Law School 1925-; fmr. mem. U.S. Supreme Court Advisory Cttee. on Revision of Rules of Criminal Procedure; fmr. mem. American Law Inst., Cttee. on Youth Correction Authority and Model Penal Code; mem. American Bar Assn. Cttee. on Juvenile Delinquency, Nat. Council on Crime and Delinquency, Int. Acad. of Law and Sciences, Int. Soc. of Criminology, American Soc. of Criminology, German Soc. of Criminology; Fellow American Acad. of Arts and Sciences, American Psychiatric Assn., A.A.A.S. (fmr. Joint Vice-Pres.); Hon. LL.D. (Salonika) 1948, Hon. S.D. (Harvard) 1958, Hon. S.S.D. (Goerge Washington) 1968; numerous awards including Isaac Ray Award (American Psychiatric Assn.) 1961. *Publications:* Mental Disorder and the Criminal Law 1925, War Criminals: Their Prosecution and Punishment 1944, The Nuremberg Trial and Aggressive War 1946, The Problem of Delinquency (Editor) 1959, Law and Psychiatry: Cold War or Entente Cordiale? 1962, Roscoe Pound and Criminal Justice (Editor) 1965, Continental Police Practices 1974; and books on delinquency and crime with Eleanor T. Glueck. *Leisure interests:* travel, theatre (as playwright, director and actor). *Address:* Harvard Law School, Cambridge, Mass. 02138, U.S.A.

GLUSHKO, Valentin Petrovich, DR.TECH.SC.; Soviet rocket scientist and designer; b. 2 Sept. 1908, Odessa; m. Magda Emsin 1947; two s. two d.; ed. Leningrad Univ.; Founder and Chief designer, Gas Dynamics Lab.-Experimental Design Bureau (GDL-OKB), working on devt. of liquid-propellant, electrical rockets and rocket engines 1929-; designed world's first electrothermal jet engine 1929-33, first Soviet liquid-propellant rocket engines 1930-31, rocket engines used on all Soviet space launchers; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-58, mem. 1958-; Bureau mem. Dept. of Physical-Technical Problems in Energetics, U.S.S.R. Acad. of Sciences 1960-; mem. CPSU 1956-, Cen. Cttee. CPSU 1976-; Deputy to U.S.S.R. Supreme Soviet 1966-; Hero of Socialist Labour (twice); Lenin Prize 1957; State Prize 1967; Order of Lenin (four times); Hammer and Sickle Gold Medal (twice); Order of October Revolution; Red Banner of Labour; Tsiolkovsky Gold Medal, etc. *Publications:* Pioneers of Rocketry (Selected Works 1929-45) 1972, Development of Rocketry and Space Technology in the U.S.S.R. 1973, GDL-OKB Rocket Engines 1975. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

GLUSHKOV, Viktor Mikhailovich; Soviet mathematician; b. 24 Aug. 1923, Rostov on Don; m. Valentina Mikhailovna Glushkova; two d.; ed. Rostov on Don Univ.; Ural Timber Inst. 1948-55; Head, Computer and Mathematics Lab., Kiev Inst. of Mathematics 1956; Dir. Computer Centre, Ukrainian Acad. of Sciences 1957-62; Dir. Inst. of Cybernetics, Ukrainian Acad. of Sciences 1962; Corresp. mem. Ukrainian Acad. of Sciences 1958-60, mem. 1961, Vice-Pres. 1962-; mem. U.S.S.R. Acad. of Sciences 1964-; State Cttee. for Science and Technology, Moscow Mathematical Soc.; mem. CPSU, Cen. Cttee. CP of Ukraine; Deputy U.S.S.R. Supreme Soviet; Lenin Prize 1964; Hero of Socialist Labour 1969; State Prize 1968 and 1977; Order of Lenin (three times); Hammer and Sickle Gold Medal, etc. *Publications:* over 300 scientific papers and books, incl. Introduction to Cybernetics, Synthesis of Digital Automata, Introduction to AMS. *Leisure interests:* poetry, classical music, angling. *Address:* Institute of Cybernetics, Ukrainian Academy of Sciences, 252207 Kiev 207, U.S.S.R. *Telephone:* 662-008 (Office).

GNÄGI, Rudolf; Swiss lawyer and politician; b. 3 Aug. 1917, Schwadernau; ed. Progymnasium and Gymnasium, Bienne, and Universität Bern; Lawyer 1943-46; Sec. Farmers', Tradesmen's and Burghers' Party of Berne 1946, also Peasants' Fed. of Berne 1946; Sec. of Farmers', Tradesmen's and Burghers' Party of Switzerland 1947; Govt. Councillor for Canton of Berne 1952; Nat. Councillor 1953; mem. Fed. Council 1966-, Vice-Pres. Jan.-Dec. 1970, Jan.-Dec. 1975, Pres. of Swiss Confed. Jan.-Dec. 1971, Jan.-Dec. 1976; Head of Communications and Power Dept. 1966-68, of Fed. Mil. Dept. July 1968-. *Address:* Spiegel-Berne, Steingrubenweg 8, Switzerland.

GNATT, Poul Rudolph; New Zealand (b. Danish) dancer, choreographer and producer; b. 24 March 1923, Vienna, Austria; s. of late Kai Gnatt and Kaja (née Olsen); m. Rigmor Strøyberg 1951; four s.; ed. Royal Danish Ballet School; joined Royal Danish Ballet School 1929, Principal Dancer 1949; Principal Dancer, Ballettes des Champs Elysées 1946-49; Metropolitan Ballet 1947-49, Ballet Russe 1950-51, Borovansky Ballet 1951-53; Founder and Artistic Dir. New Zealand Ballet 1953-63, 1970-72; guest performances and short return to Royal Danish Ballet 1963-64; Resident Teacher, Australian Ballet School and Producer/Ballet-master. The Australian Ballet 1964; Founder of Dance Theatre, Philippines, Manila 1968; Guest Producer, N.Z. Ballet Co. 15 year birthday season, Basel 1975, N.Z. Ballet 1977, Scottish Ballet July-Aug 1978 (producing Napoli by August Bournonville); Stage Dir. Norwegian Opera and Ballet 1973-. *Choreography:* Satan's Wedding 1955, Sonata (Beethoven) 1955, Valse Triste 1955, Peer Gynt 1956, Prismatic Variations (with Russell Kerr) 1958, The Miraculous Mandarin, Peter and the Wolf 1968. *Leisure interests:* tennis, handicraft, opera. *Address:* Niles Julesgate 40, Oslo 2, Norway. *Telephone:* 44-67-10.

GOAD, Sir (Edward) Colin (Viner), K.C.M.G.; British int. civil servant; b. 21 Dec. 1914, Cirencester, Glos.; s. of the late Maurice G. V. and Caroline (née Masters) Goad; m. Joan O. Bradley 1939; one s.; ed. Cirencester Grammar School and Cambridge Univ.; Ministry of Transport 1937-63, Asst. Sec. 1948, Under-Sec. 1963; Deputy Sec.-Gen. (and Sec. Maritime Safety Cttee.) UN Inter-Governmental Maritime Consultative Org. 1963-67, Sec.-Gen. 1968-73, retd. 1973; mem. Advisory Board, Int. Bank, Washington D.C., Joint Maritime Comm. ILO. *Leisure interests:* gardening, 18th-century English furniture. *Address:* The Paddock, Ampney Crucis, Cirencester, Glos., England. *Telephone:* Poulton 353.

GOBBI, Tito; Italian baritone opera singer; b. 24 Oct. 1915, Bassano del Grappa, Vicenza; s. of Giovanni Gobbi and Enrica Weiss; m. Matilde de Rensis 1937; one d.; ed. Padua Univ.; opera début in La Traviata, Rome 1938; has sung in numerous operas in major theatres throughout the world; also in a number of films; also produces operas, incl. Simon Boccanegra, Covent Garden 1965; master classes, lectures in England, U.S.A., Italy, Portugal. *Publication:* My Life (autobiography) 1979. *Leisure interests:* reading, painting, driving, boating. *Address:* Via Valle della Moletta 47, 00 123 La Storta, Rome, Italy. *Telephone:* 6990996.

GOČÁR, Jiří, ING.; Czechoslovak architect; b. 12 June 1913, Prague; ed. Faculty of Civil and Structural Engineering, Czech Technical Univ.; own practice until 1948; Stavoprojekt, Prague 1949-54; Union of Architects affil. to Union of Czechoslovak Artists 1954-56; Union of Architects of Czechoslovakia 1956-59, Chair. 1959-69; Head of Architects' Atelier 1965; mem. Council for Reconstruction of Prague Castle 1959-68; Deputy Chair. Fed. Cttee. for Technical Devt. and Investment 1969-70; architect with Investis 1970-; Chair. Union of Czech Architects 1969-70; mem. Exec. Cttee. Union Int. des Architectes, Chair. Czechoslovak Section 1967; Chair. Co-ordination Cttee., Federal Ministry for Technical Devt. and Investment, for Housing Environment 1972; work on housing, public and industrial buildings; mem. Cen. Cttee. CP of Czechoslovakia 1966-70; Order of Labour 1963. *Address:* Investis, Prague 1, Břehová 1, Czechoslovakia.

GODARD, Jean-Luc; French film director; b. 3 Dec. 1930; ed. Lycée Buffon; journalist and film critic; film director 1958-; Prix Jean Vigo for A bout de souffle 1960, Jury's Special Prize and Prix Pasinetti, Venice Festival 1962, Diploma of Merit, Edinburgh Film Festival 1968 for Weekend. *Films:* Opération Béton 1954, Une femme coquette 1955, Tous les garçons s'appellent Patrick 1957, Charlotte et son Jules 1958, Une histoire d'eau 1958, A bout de souffle 1959, Le petit soldat 1960, Une femme est une femme 1961, Les sept péchés capitaux (episode) 1961, Vivre sa vie 1962, RoGoPaG (episode) 1962, Les carabiniers 1963, Le mépris 1963, Les plus belles escroqueries du monde (episode) 1963, Paris vu par . . . (episode) 1963, Bande à part 1964, Une femme mariée 1964, Alphaville 1965, Pierrot le fou 1965, Masculin-féminin 1966, Made in U.S.A. 1966, Deux ou trois choses que je sais d'elle 1966, La chinoise 1967, Loin du Vietnam (episode) 1967, Weekend 1967, Le plus vieux métier du monde (episode) 1967, Vangelo '70 (episode) 1967, Le gai savoir (TV) 1968, Un film comme les autres 1968, One Plus One 1968, One American Movie-1 a.m. 1969, British Sounds 1969, Le vent d'est 1969, Lotte in Italia 1970, Vladimir et Rosa 1971, Tout va bien 1972, Numéro deux 1975, Ici et ailleurs 1976, Bugsy 1979. *Address:* 80 rue des Archives, 75003 Paris, France.

GODBER, Rt. Hon. Joseph Bradshaw, P.C.; British politician; b. 17 March 1914, Bedfordshire; s. of Isaac and Bessie Godber; m. Miriam Sanders 1936; two s.; ed. Bedford School; Family Business 1932; Beds. County Councillor 1946-52; M.P. 1951-79; Parl. Private Sec. to Parl. Sec. to Ministry of Labour 1952-55; Asst. Govt. Whip 1955-57; Joint Parl. Sec., Ministry of Agriculture, Fisheries and Food 1957-60; Joint Parl. Under-Sec. of State, Foreign Office 1960-61, Minister of State 1961-63; Minister of War 1963; Minister of Labour 1963-64; Minister of State, FCO 1970-72, of Agriculture, Fisheries and Food 1972-74; Chair. Sidney C. Banks 1974-; Dir. Booker McConnell 1974-; Dir. Tricentrol Ltd. 1975-, Chair. 1976-; Dir. British Home Stores 1977-; Consultant, Beecham (Food & Drink) Ltd. 1974-; Conservative. *Leisure interest:* gardening. *Address:* Willington Manor, nr. Bedford, England. *Telephone:* 02-303-284.

GODDARD, David R., PH.D.; American professor of biology; b. 3 Jan. 1908, Carmel, Calif.; s. of Pliny Earle Goddard and Alice

Rockwell Goddard; m. 1st Doris Martin 1933 (deceased), 2nd Katharine Evans 1952; one s. one d.; ed. Univ. of Calif. at Berkeley; Instructor to Prof., Univ. of Rochester 1935-46, Chair. Dept. of Botany 1938-46; Prof. of Botany, Univ. of Pa. 1946-58, Chair. Dept. of Botany 1952-57, Dir. Div. of Biology 1957-61, Gustave C. Kuemmerle Prof. of Botany 1958-64, Provost 1961-71, Prof. of Biology 1964-71, Emer. Provost 1971-, Univ. Prof. of Science and Public Policy 1971-72, Univ. Prof. of Biology 1972-75, Emer. Prof. 1975-; Nat. Research Council Fellow, Rockefeller Univ. 1933-35; Guggenheim Fellow, Univ. of Chicago 1942-43, Cambridge Univ. 1950; mem. Nat. Acad. of Sciences (Home Sec. 1975-79), American Acad. of Arts and Sciences, American Philosophical Soc.; Pres. American Soc. of Plant Physiologists 1958, Soc. of Gen. Physiologists 1948; official numerous other soc.; Stephen Hales Award, American Soc. of Plant Physiologists 1948, Certificate of Merit, Botanical Soc. of America 1962. *Publications:* Physical Chemistry of Cells and Tissues (with Hober and others) 1945; articles on enzymes, cellular respiration, cellular growth and physiology of infection. *Address:* Biology Building, University of Pennsylvania, Philadelphia, Pa. 19104 (Office); 490 East Abington Avenue, Philadelphia, Pa. 19118, U.S.A. (Home). *Telephone:* (215) 243-5854 (Office); (215) 247-6681 (Home).

GODDARD, Samuel Pearson, LL.B.; American lawyer and politician; b. 8 Aug. 1919, Clayton, Missouri; s. of Samuel Pearson Goddard Sr. and Florence Goddard; m. Julia Hatch Goddard 1944; three s.; ed. Harvard Coll., and Univ. of Arizona Law School; U.S. Army Air Corps 1941-46; law firm, Goddard and Ahearn; Chair. Tucson United Community Campaign 1959, Pres. 1960-62; Pres. Western Conf. of Community Chests, United Funds and Councils 1961-63; mem. Nat. Board Dirs. United Community Funds and Councils of America 1963-69, Exec. Cttee. 1966-69, Vice-Pres. 1968-69; Chair. Democratic Party of Ariz. 1960-62, 1978, Democratic Nominee for Gov. 1962, 1968, Gov. of Arizona 1965-67; Democratic Nat. Ctteeman. 1972-78; mem. White House Conf. Cttee., Children and Youth 1959, Phoenix Symphony Board 1968-78, Board of Govs., United Way of America 1972-; Chair. Task Force "Making People a Part of the System" 1971, UWA Nat. Acad. for Volunteerism 1973-75; officer of numerous business, civic and academic organizations; Unitarian. *Address:* Suite 2515 Arizona Bank Building, 101 1st Avenue, Phoenix, Ariz. 85003, U.S.A. *Telephone* 1-602-258-6629.

GODDEN, Rumer (Mrs. Margaret Rumer Haynes Dixon); British author; b. 10 Dec. 1907; d. of Arthur L. Godden and Katherine N. Hingley; m. 1st Laurence S. Foster 1949, 2nd James L. Haynes-Dixon; ed. privately; *Publications:* Chinese Puzzle 1935, The Lady and the Unicorn 1937, Black Narcissus 1939, Breakfast with the Nikolides 1941, Fugue in Time 1944, The River 1946, A Candle for St. Jude 1948, Kingfishers Catch Fire 1952, An Episode of Sparrows 1955, The Greengage Summer 1959, China Court 1961, The Battle of the Villa Fiorita 1963, In This House of Brede 1969; trans. Prayers from the Ark 1962; Two Under the Indian Sun (autobiography) 1965, Swans and Turtles 1968, The Raphael Bible 1970, Shiva's Pigeons (with Jon Godden) 1972, The Peacock Spring 1975, Five for Sorrow Ten for Joy 1979; poems, children's books, films. *Leisure interests:* family, travel, ballet, pekinese dogs. *Address:* The Small House, Tundergarth, Lockerbie, Dumfriesshire, Scotland.

GODLEY, George McMurtrie; American diplomatist (retd.); b. 23 Aug. 1917, New York, N.Y.; s. of Frederick A. and Anne Franchot Godley; m. Elizabeth McCray 1966; two s.; ed. Yale and Chicago Univs; U.S. Naval Reserve 1939-41, U.S. Marine Corps 1945-46; Foreign Service Officer 1941-, served Marseille, Berne, Paris, Phnom Penh 1941-55; Foreign Affairs Officer, Dept. of State 1957-60; Staff Co-ordinator, Dept. of State 1960; Counselor, Consul, Léopoldville 1961-62; Dir., Office of Central African Affairs, Dept. of State 1962-64; Amb. to Repub. of Congo (Kinshasa) 1964-66; Career Minister 1966; Foreign Service Insp. 1967; Deputy Asst. Sec. State for E. Asian and Pacific Affairs 1968-69; Amb. to Laos 1969-73, to Lebanon 1974-76, to Ethiopia 1976-77. *Address:* Morris, N.Y. 13808, U.S.A. (Home). *Telephone:* 607-263-5154.

GODWIN, Sir Harry, Kt., PH.D., SC.D., F.G.S., F.L.S., F.R.S.; British botanist; b. 9 May 1901, Rotherham, Yorks.; s. of Charles William Thomas Godwin and Mary Jane Grainger; m. Margaret Elizabeth Daniels 1927; one s.; ed. Long Eaton County Secondary School and Clare Coll., Cambridge; Fellow of Clare Coll., Cambridge 1925-; Univ. Demonstrator in Botany 1923-, Univ. Lecturer 1934-48, Reader 1948-60; Head of Univ. Sub-Dept. of Quaternary Research 1948-66; Prof. of Botany 1960-68; Pres. British Ecological Soc. 1943; Pres. 10th Int. Botanical Congress, Edin. 1964; Pres. Botanical Section, British Assen. 1956; mem. Nature Conservancy 1949-54, 1965-72; co-Editor New Phytologist 1931-61; Editor Journal of Ecology 1958-65; mem. Svenska Växtgeografiska Salskapet 1937-; Corresp. mem. Botanical Soc., Gothenburg 1953; Hon. Fellow, Royal Irish Acad. 1955, Botanical Soc. of Edinburgh 1961; Corresp. mem. Botanical Soc. of America 1966; Foreign mem. Royal Scientific Soc., Uppsala 1961, German Acad. of Sciences, Leopoldina 1962, Royal Danish Acad. of Science and Letters 1962; Hon. mem. Royal Soc. of New Zealand 1967; Foreign Hon. mem. American Acad. of Arts and Sciences 1976; Prestwich Medal, Geological Soc. of London 1951; Croonian Lecturer Royal Soc., London 1960; Hon. Sc. D. (Trinity Coll., Dublin) 1960, (Lancaster) 1968, (Durham) 1974; Gold Medal, Linnean Soc., London 1966; Medal of Univ. of Helsinki 1966. *Publications:* Plant Biology 1930, History of the British Flora 1956 (revised edn. 1975), Fenland: its Ancient Past and Uncertain Future 1978; also scientific papers on ecology of bogs and fens 1929-41; on vegetational history, pollen-analysis, radiocarbon dating in context of Quaternary history 1935-; pollen-grain ontogeny 1966-. *Leisure interests:* the country, gardening, and the visual arts. *Address:* 30 Barton Road, Cambridge, CB3 9LF, England. *Telephone:* 50883.

GOEBEL, Walther F., PH.D.; American professor of biochemistry; b. 24 Dec. 1899, Palo Alto, Calif.; s. of Julius Goebel and Kathryn Vreeland; m. 1st Cornelia Van Rensselear Robb 1930 (deceased); m. 2nd Alice Lawrence Behn 1976; two d.; ed. Univs. of Illinois and Munich; Research Asst., Rockefeller Univ. (fmrly. Rockefeller Inst.) 1924-27, Research Assoc. 1927-34, Assoc. mem. 1934-44, mem. 1944-57, Prof. of Biochemistry 1957-70, Prof. Emer. 1970-; mem. N.A.S.; Hon. D.Sc. (Middlebury Coll., Vt., Rockefeller Univ. 1978); Avery-Landsteiner Award, Gesellschaft für Immunologie 1973. *Publications:* Numerous scientific articles on biochemistry, microbiology and chemical immunology in Journal of American Chemical Soc., of Experimental Medicine, of Biochemistry and of General Physiology; Annales of Inst. Pasteur, Proceedings of Nat. Acad. of Sciences, etc. *Leisure interests:* music, photography, painting. *Address:* Rockefeller University, New York, N.Y. 10021 (Office); 15 Lyon Farm Drive East, Greenwich, Conn. 06830, U.S.A. (Home). *Telephone:* 203-531-5072 (Home).

GOEHR, Alexander; British composer; b. 10 Aug. 1932, Berlin; s. of Walter Goehr; m. 1st Audrey Baker 1954, 2nd Anthea Felicity Staunton 1972; one s. three d.; ed. Berkhamstead School, Royal Manchester Coll. of Music, Paris Conservatoire (with Oliver Messiaen), and privately with Yvonne Loriod; composer, teacher, conductor 1956-; held classes at Morley Coll., London; part-time post with BBC, being responsible for production of orchestral concerts 1960-; works performed in Darmstadt, Prague, Venice, Zagreb, Warsaw, Cologne, Donaueschingen, Lucerne and other cities in Europe and America; Hon. Fellow Royal Manchester Coll. of Music; awarded Churchill Fellowship 1968; Composer-in-Residence, New England Conservatory, Boston, Mass. 1968-69; Assoc. Prof. of Music, Yale Univ. 1969-70; Prof. West Riding Chair of Music Univ. of Leeds 1971-76; Prof. of Music, Univ. of Cambridge, Fellow of Trinity Hall, Cambridge 1976-; Hon. D. Mus (Southampton) 1973. *Works include:* Songs of Babel 1951, Sonata 1952, Fantasias 1954, String Quartet 1956-57, Capriccio 1957, The Deluge 1957-58, La belle dame sans merci 1958, Variations 1959, Four Songs from the Japanese 1959, Sutter's Gold 1959-60, Suite 1961, Hecuba's Lament 1959-61, A Little Cantata of Proverbs 1962, Concerto for Violin and Orchestra 1961-62, Two Choruses 1962, Virtutes 1963, Little Symphony 1963, Little Music for Strings 1963, Five Poems and an Epigram of William Blake 1964, Three Pieces for Piano 1964, Pastorals 1965, Piano Trio 1966, Arden muss sterben (Arden Must Die—opera) 1966, Quartet 1967, Romanza 1968, Naboth's Vineyard 1968, Symphony in One Movement, Opus 29 1970, Shadowplay-2 1970, Sonata about Jerusalem 1970, Piano Concerto 1972, Clarinet Monologue 1973, Metamorphosis Dance 1974. *Address:* Faculty of Music, 11 West Road, Cambridge, England. *Telephone:* Cambridge 61661.

GOES, Albrecht; German writer; b. 22 March 1908; s. of Eberhard Goes and Elisabeth (née Panzerbieter); m. Elisabeth Schneiter 1933; three d.; ed. Tübingen Univ; Evangelical pastor, Württemberg 1930-52; writer 1953-; mem. Berliner Akad. für Künste, Deutsche Akad. für Sprache und Dichtung; Dr. h.c. Theology (Mainz) 1974; Lessing Prize, Hamburg 1953. *Publications:* Unruhige Nacht, Von Mensch zu Mensch 1949, Gedichte 1950, Das Brandopfer 1953, Freude am Gedicht 1954, Vertrauen in das Wort 1955, Ruf und Echo 1956, Genesis 1957, Hagar am Brunnen 1958, Rede auf Goethes Mutter 1958, Ravenna 1959, Aber im Winde das Wort 1963, Das Löffelchen 1965, Im Weitergehen 1966, Der Knecht macht keinen Lärm 1968, Die guten Gefährten 1969, Kanzelholz 1971. *Address:* c/o Akademie der Künste, Hanseatenweg 10, Berlin 21, Federal Republic of Germany.

GOETZE, Roger; French business executive; b. 6 Dec. 1912, Paris; ed. Lycée Carnot and Faculté des Lettres et des Sciences de Paris; Insp. of Finances 1937; Dir.-Gen. of Finance, Algeria 1942-49; Dir. of Budget 1949-57; Pres. S.N. Repal 1946-66; Gov. Crédit Foncier de France S.A. 1957, Gov. 1967-; Grand Officier Légion d'honneur. *Address:* Crédit Foncier de France S.A., 19 rue des Capucines, Paris 1er, France.

GOGUEL, Jean, D.SC.; French geologist; b. 2 Jan. 1908, Paris; s. of Dr. Maurice Goguel; m. Micheline Vernes 1931; three s. three d.; ed. Ecole Polytechnique, Ecole des Mines, Paris; entered Service de la Carte Géologique 1931, Dir. 1953-67; Prof. École Nat. Supérieure des Mines 1935-, Ecole des Ponts et Chaussées 1941-55; Foreign Hon. mem. American Acad. of Arts and Sciences (Boston), Nat. Acad. of Sciences (Washington); Prix James Hall 1938, Prix Cuvier 1948, Prix Prestwich, Prix Gaudry (Soc. Géologique). *Publications:* Introduction à l'étude mécanique des déformations de l'écorce terrestre 1943, 2nd edn. 1949, L'homme dans l'univers 1947, Traité de tectonique 1952, 2nd edn. 1965, Application de la géologie aux travaux de l'ingénieur 1959, 2nd edn. 1967, La géothermie. *Address:* 6-8 rue Chasseloup-Laubat, Paris 15e (Office); 100 rue du Bac, Paris 7e, France (Home). *Telephone:* SUF 94-00 (Office); LIT 76-13 (Home).

GOH KENG SWEE, PH.D.; Singapore politician; b. 6 Oct. 1918, Malacca; ed. Raffles Coll., London Univ; Vice-Chair. People's Action Party; elected Legis. Ass. from Kreta Ayer Div. and Minister for Finance 1959-65; initiated Singapore's industrialization plan, the establishment of Econ. Devt. Board; Minister of Defence 1965-67, of Finance 1967-70, of Educ. 78-, of Defence 1970-78, concurrently Deputy Prime Minister 1972-; mem. Governing Council, Asian Inst. for Econ. Devt. and Planning, Bangkok 1963-66; Ramon Magsaysay Award for Govt. Service 1972. *Publications:* Urban Incomes and Housing; a Report on the Social Survey of Singapore, 1953-54 1958, Economics of Modernization and Other Essays 1972, The Practice of Economic Growth 1977. *Address:* Ministry of Education, Minden Road, Tanglin, Singapore 10.

GOHEEN, Robert Francis, PH.D.; American professor and administrator; b. 15 Aug. 1919, Vengurla, India; s. of Robert H. H. and Anne (Ewing) Goheen; m. Margaret M. Skelly 1941; two s. four d.; ed. Lawrenceville School and Princeton Univ; Instructor, Princeton Univ. 1948-50, Asst. Prof. 1950-57, Prof. 1957-; Senior Fellow in Classics, American Acad. in Rome 1952-53; Dir. Nat. Woodrow Wilson Fellowship Programme 1953-56; Pres. Princeton Univ. July 1957-72; Chair. Council on Foundations, Inc. 1972-77; Pres. Edna McConnell Clark Foundation 1977-; Amb. to India 1977-; Gov. Reza Shah Kabir Univ. (Iran); Regent, Smithsonian Inst.; Co-Chair. Indo-U.S. Sub-comm. on Educ. and Culture; Dir. Equitable Life Assurance Soc. of U.S., Dreyfus Third Century Fund; mem. Board American Acad. in Rome; mem. Council on Foreign Relations, American Acad. of Arts and Sciences; Hon. LL.D., Litt.D., L.C.D., L.H.D., degrees from some 26 univs. and colls. including Harvard, Yale, Madras, North Carolina, Notre Dame. *Publications:* The Imagery of Sophocles' Antigone, The Human Nature of a University. *Leisure interests:* golf, tennis, reading. *Address:* American Embassy, Shanti Path, Chanakyapuri, New Delhi 110021, India; The Edna McConnell Clark Foundation, 250 Park Avenue, New York, N.Y. 10017, U.S.A. *Telephone:* 212-986-7050.

GÖLCÜKLÜ, Ahmet Feyyaz; Turkish judge and academic; b. 4 Oct. 1926, Muğla; s. of Zeki and Ruhiye Gölcüklü; m. (divorced 1975) two s.; ed. Univ. of Istanbul and Univ. of Neuchâtel; became Asst. Prof. at Faculty of Political Sciences Univ. of Ankara 1954, Assoc. Prof. 1958, Prof. 1965, Dir. School of Journalism and Broadcasting 1969 and 1972, Dean, Faculty of Political Sciences 1973-76, currently Prof. Faculty Political Sciences; Judge, European Court of Human Rights 1977-. *Publications:* Examination of the Accused Person in Penal Matters 1952, Personal Liberty of the Accused in Criminal Procedure 1958, A Research on Juvenile Delinquency in Turkey 1963, Turkish Penal System 1965, Mass Communication Law 1973. *Address:* Pilot Sokak 8/4, Çankaya, Ankara, Turkey. *Telephone:* 270299.

GOLD, Joseph, LL.M., S.J.D.; British lawyer; b. 12 July 1912, London; m. Ruth Schechter 1939; one s. two d.; ed. London and Harvard Univs; Lecturer in Law, London Univ. 1937-39; mem. British Govt. Mission to Washington 1942-46; with IMF 1946-, Gen. Counsel, Dir. Legal Dept. 1960-. *Publications:* Fund Agreement in the Courts 1962, The Stand-By Arrangements of the IMF 1970, Voting and Decisions in the IMF 1972, Membership and Nonmembership in the IMF 1974, Legal and Institutional Aspects of the International Monetary System: Selected Essays, and contributions to professional journals. *Address:* International Monetary Fund, 700 19th Street, N.W., Washington, D.C. 20431, U.S.A.

GOLD, Thomas, F.R.S., SC.D.; American (fmrly. British) astronomer; b. 22 May 1920, Vienna, Austria; s. of Mr. and Mrs. Max Gold; m. 1st Merle Eleanor Tuberg 1947, 2nd Carvel Lee Beyer 1972; four d.; ed. Zuoz Coll., Switzerland, and Trinity Coll., Cambridge; Experimental Officer, British Admiralty (radar research) 1943-46; Fellow, Trinity Coll., Cambridge 1947; Chief Asst. to Astronomer Royal, Royal Greenwich Observatory 1952-56; Prof. of Astronomy, Harvard Univ. 1957-59; Prof. of Astronomy, Cornell Univ. 1959-; Dir. Cornell Univ. Center for Radiophysics and Space Research 1959-; Fellow, Royal Soc., London; mem. Nat. Acad. of Sciences, American Philosophical Soc. *Publications:* The Steady State Theory of the Expanding Universe 1948, The Alignment of Galactic Dust 1952, The Field of a Uniformly Accelerated Charge 1954, Instability of the Earth's Axis of Rotation 1955, The Lunar Surface 1956, Cosmic Rays from the Sun 1957, Plasma and Magnetic Fields in the Solar System 1959, The Origin of Solar Flares 1960, The Nature of Time 1967, Rotating Neutron Stars as the Origin of the Pulsating Radio Source 1968, Rotating Neutron Stars and the Nature of Pulsars 1969, Apollo 12 Seismic Signal: Indication of a Deep Layer of Powder 1970, Terrestrial Sources of Carbon and Earthquake Outgassing 1978, etc. *Leisure interests:* skiing, water skiing. *Address:* Center for Radiophysics and Space Research, Space Sciences Building, Cornell University, Ithaca, N.Y. 14853, U.S.A. *Telephone:* 607-256-5284.

GOLDBERG, Arthur Joseph, B.S. IN L., DR.JUR.; American lawyer and diplomatist; b. 8 Aug. 1908, Chicago, Ill.; s. of Joseph Goldberg and Rebecca Perlstein; m. Dorothy Kurgans 1931; one s. one d.; ed. City Coll., Chicago and Northwestern Univ; Private Law Practice 1929-48; Gen. Counsel, Congress of Industrial Workers 1948-55; Gen. Counsel, United Steel-workers 1948-61; Special Counsel, American Fed. of Labor-Congress of Industrial Orgs. 1955-61; Gen. Counsel, Industrial Union Dept., AFL-CIO 1955-61; Sec. of Labor 1961-62; Justice of U.S. Supreme Court 1962-65; Perm. Rep. U.S. to UN 1965-68; Senior partner Paul, Weiss, Goldberg, Rifkind, Wharton and Garrison, New York 1968-71; Law Practice, Washington 1971-; Amb.-at-Large 1977-; Head of U.S. Del., CSCE, Belgrade 1977-78; Prof. of Law and Diplomacy, American Univ., Washington 1972-73; Charles Evans Hughes Prof., Woodrow Wilson School, Princeton Univ. 1968-69; Distinguished Prof. School of Int. Relations, Columbia Univ. 1969-70; Visiting Distinguished Prof. Hastings Coll. of the Law, Univ. of Calif., San Francisco 1974-; Presidential Medal of Freedom 1978; Democrat. *Publications:* Civil Rights in Labor-Management Relations: a Labor Viewpoint 1951, A.F.L.-C.I.O.—Labor United 1956, Unions and the Anti-Trust Laws 1956, Management's Reserved Rights 1956, Ethical Practices 1958, A Trade Union Point of View 1959, Suggestions for a New Labor Policy 1960, The Role of the Labor Union in an Age of Bigness 1960, The Annals of The American Academy of Political and Social Science (Vol. 339) 1962, The Defenses of Freedom: The Public Papers of Arthur J. Goldberg 1966, Equal Justice: the Warren Era of the Supreme Court 1972. *Address:* 2801 New Mexico Avenue, N.W., Washington, D.C. 20007, U.S.A. *Telephone:* 202-293-2868.

GOLDBERG, Leo, PH.D.; American astronomer; b. 26 Jan. 1913, Brooklyn, N.Y.; s. of Harry Goldberg and Ruth Ambush; m. Charlotte B. Wyman 1943; two s. one d.; ed. Harvard Univ; Research Fellow, Harvard Univ. 1938-41; Asst. Research Assoc. and Research Physicist, Univ. of Mich. 1941-46, Dir. of Observatory and Chair. Dept. of Astronomy 1946-60; staff mem. Smithsonian Astrophysical Observatory 1960-66; Higgins Prof. of Astronomy, Harvard Univ. 1960-73, Higgins Prof. Emer. 1973-; Chair. Dept. of Astronomy 1966-71; Dir. Harvard Coll. Observatory 1966-71, Kitt Peak Nat. Observatory 1971-77, Distinguished Research Scientist 1978; Editor Annual Review of Astronomy and Astrophysics 1961-73; Past Pres. American Astronomical Soc.; fmr. Vice-Pres. Int. Astronomical Union, Pres. 1973-76; mem. Visiting Cttee., Div. of Physical Sciences, Univ. of Chicago 1974-, Panel on Health of Scientific and Tech. Enterprise, Office of Tech. Assessment, U.S. Congress 1976-; mem. Board of Overseers, Harvard Coll. 1976-; Chair. Astronomy Section, Nat. Acad. of Sciences 1977-(80); George Darwin Lecturer, Royal Astronomical Soc.; mem. Nat. Acad. of Sciences; Soc. Royale des Sciences de Liège, American Philosophical Soc.; Foreign Assoc. Royal Astronomical Soc., London; Hon. mem. Royal Astronomical Soc. of Canada; Hon. Sc.D. (Univ. of Mass., Amherst 1970, Univ. of Mich. 1974); Hon. D.Sc. (Univ. of Arizona) 1977; Russell Lecturer Citation, American Astronomical Soc. 1973; NASA Distinguished Service Medal 1973. *Publications:* Numerous technical and scientific articles in astrophysical journals. *Address:* Kitt Peak National Observatory, P.O. Box 26732, 950 N. Cherry Avenue, Tucson, Ariz. 85726 (Office); 6846 East Via Dorado, Tucson, Ariz. 85715, U.S.A. (Home). *Telephone:* 602-327-5511 (Office); 602-298-6521 (Home).

GOLDBERGER, Marvin Leonard, PH.D.; American professor of physics; b. 22 Oct. 1922, Chicago, Ill.; s. of Joseph and Mildred Sedwitz Goldberger; m. Mildred C. Ginsburg 1945; two s.; ed. Carnegie Inst. of Technology and Univ. of Chicago; Research Assoc. Radiation Lab., Univ. of Calif. (Berkeley) 1948-49, M.I.T. 1949-50; Asst. Prof., Prof., Univ. of Chicago 1950-57; Eugene Higgins Prof. of Physics, Princeton Univ. 1957-77, Chair. Physics Dept. 1970-76, Joseph Henry Prof. of Physics 1977-78; Pres. Calif. Inst. of Tech. July 1978-; Chair. Fed. of American Scientists 1971-72; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Dannie Heineman Prize for Mathematical Physics 1961. *Publication:* Collision Theory (with K. M. Watson) 1964. *Leisure interests:* running, tennis, cooking. *Address:* California Institute of Technology, Pasadena, Calif. 91125, U.S.A. (Office).

GOLDFINGER, Ernö, R.A., F.R.I.B.A.; British architect; b. 11 Sept. 1902, Budapest, Hungary; s. of Dr. Oscar Goldfinger and Regine Haiman; m. Ursula Ruth Blackwell 1933; two s. one d.; ed. Ecole Nat. et Supérieur des Beaux Arts, Paris and Inst. d'Urbanisme, Sorbonne, Paris; mem., Congrès Int. de l'Architecture Moderne (CIAM) 1928-59; Sec. British Section of Réunion Int. des Architectes 1935-45; mem. Foreign Relations Cttee., R.I.B.A. 1946, Architectural Registration Council of the U.K. 1941-50, Council of Industrial Design 1961-65, Modern Architectural Research (MARS) group 1934-60, Building Requirements sub-cttee. of Scientific Advisory Cttee., Ministry of Works 1943-45; Assoc. Royal Acad. 1971, mem. Council 1974, mem. 1975; mem. Council, Architectural Assen. 1960-65, 1965-68; drawings and models at R.I.B.A., Heinz Gallery and Royal Acad.; documents in R.I.B.A. library. *Publications:* County of London Plan Explained 1945, British Furniture Today 1951, articles in Architectural Review 1941-42. *Leisure interests:* architecture, travel. *Address:* 2 Willow Road, London, NW3 1TH, England.

GOLDHABER, Gertrude Scharff, PH.D.; American physicist; b. 14 July 1911, Mannheim, Germany; d. of Otto Scharff and Nelly Steinharter; m. Maurice Goldhaber (*q.v.*) 1939; two s.; ed. Univs. of Freiburg, Zurich, Berlin and Munich; Research Assoc. in Physics, Imperial Coll., London 1935-39; Physicist, Univ. of Ill. 1939-48; Consultant, Argonne Nat. Lab. 1946-50; Asst. Prof., Univ. of Ill. 1948-50; Assoc. Physicist, Brookhaven Nat. Lab. 1950-58, Physicist 1958-62, Senior Physicist 1962-; Consultant, Los Alamos Scientific Lab. 1953-; Chair. ad hoc Panel on Nuclear Data Compilations, Nuclear Research Council, Nat. Acad. of Sciences (NAS) 1969-71; Councillor-at-Large, American Physical Soc. 1978-(81); mem. NAS Report Review Cttee. 1973-, Forum Cttee. 1974-; mem. Cttee. on Problems of Women in Physics 1971-72, Research Advisory Cttee., Nat. Science Foundation 1972-74, Editorial Cttee., Annual Reviews of Nuclear Science 1972-77, Board of Trustees, Fermi Nat. Accelerator Lab. 1972-78, Physics Visiting Cttee., Harvard Univ. 1973-, President's Cttee. on the Nat. Medal of Science 1977-, Editorial Board for Journal of Physics G, London, Cttee. on Educ. and Employment of Women in Science and Eng. 1978-, A.A.A.S.; Consultant Arms Control and Disarmament Agency 1974-77. *Publications:* author and co-author of many articles on physics subjects. *Leisure interests:* history of science, literature and art, recent results in neuroendocrinology, tennis, swimming, hiking. *Address:* Department of Physics, Brookhaven National Laboratory, Upton, N.Y. 11973 (Office); 91 South Gillette Avenue, Bayport, N.Y. 11705, U.S.A. (Home). *Telephone:* 516-345-3912 (Office); 516-HR2-0651 (Home).

GOLDHABER, Maurice, PH.D.; American physicist; b. 18 April 1911, Lemberg, Austria; s. of Charles Goldhaber and Ethel Frisch Goldhaber; m. Gertrude Scharff (Goldhaber *q.v.*) 1939; two s.; ed. Berlin Univ. and Cambridge Univ., U.K.; Prof. of Physics, Univ. of Ill. 1938-50; Senior scientist, Brookhaven Nat. Lab. 1950-60, Chair. Dept. of Physics 1960-61, Dir. 1961-73; mem. Nat. Acad. of Sciences, American Philosophical Soc.; Fellow, American Acad. of Arts and Sciences, A.A.A.S., American Physical Soc.; Tom W. Bonner Prize in Nuclear Physics of American Physical Soc. 1971, Associated Univs. Inc. Distinguished Scientist 1973; U.S. Atomic Energy Comm. Citation for Meritorious Contributions 1973; Hon. Ph.D. (Tel-Aviv) 1974. *Publications:* numerous articles in professional scientific journals on neutron physics, radioactivity, nuclear isomers, nuclear photo-electric effect, nuclear models, fundamental particles. *Leisure interests:* tennis, hiking. *Address:* Brookhaven National Laboratory, Upton, N.Y. 11973, U.S.A. *Telephone:* 516-345-3494.

GOLDIN, Nikolay Vasiliyevich; Soviet engineer and politician; b. 20 March 1910; ed. Kharkov Electrical Engineering Inst; Engineer, Head of Design Office, Man of Trust, Dir. of Board of Assembly of Electrical Equipment, U.S.S.R. Ministry of Construction of Heavy Industry Plants 1937-50; Head of reconstruction works on many iron and steel plants devastated in Second World War, particularly Zaporozhstal Iron and Steel Works 1943-50; Deputy Minister for Construction of Heavy Industry Plants, then for Construction of Metallurgical and Chemical Industries Plants 1950-57; Chief Engineer, Bhilhai Iron and Steel Works, India 1958-61; Econ. Counsellor, U.S.S.R. Embassy, Cuba 1962-63; Deputy Minister of Assembly and Special Construction Works 1965-67; Minister for Construction of Heavy Industry Enterprises 1967-; Deputy to U.S.S.R. Supreme Soviet 1967-; mem. CPSU 1929-, mem. Cen. Cttee. 1971-; Order of Lenin (four times) and several other decorations *Address:* Ministry for Construction of Plants of Heavy Industry, 19/21, 5 Ulitsa Yamskogo Polya, Moscow, U.S.S.R.

GOLDING, William (Gerald), C.B.E., M.A., F.R.S.L.; British writer; b. 19 Sept. 1911; ed. Marlborough Grammar School, and Brasenose Coll., Oxford; Hon. Fellow, Brasenose Coll., Oxford 1966; Hon. D.Litt. (Sussex) 1970, (Kent) 1974. *Publications:* Lord of the Flies 1954 (film 1963), The Inheritors 1955, Pincher Martin 1956, Free Fall 1959, The Spire 1964, The Hot Gates 1965, The Pyramid 1967, The Scorpion God 1971; play Brass Butterfly 1958. *Leisure interests:* music, water gardens, Greek. *Address:* Ebble Thatch, Bowerchalke, Wiltshire, England.

GOLDMAN, Eric F., PH.D., D.C.L., LITT.D., LL.D., L.H.D.; American historian and writer; b. 17 June 1915, Washington, D.C.; s. of Harry E. Goldman and Bessie Chapman; m. Joanna R. Jackson 1952; ed. Baltimore City Coll., and Johns Hopkins Univ; Prof. Princeton Univ. 1940-, Rollins Prof. of History 1962-; Special Consultant to Pres. Johnson 1963-66; Moderator NBC TV Discussion Panel "The Open Mind" 1959-68; Guest essayist CBS Morning News 1975-77; U.S. State Dept. Lecturer, Europe, India and Canada; Reviewer New York Times Book Review; Bancroft Prize 1952, Emmy Award 1962, 1966, Library of Congress Fellow 1947, Guggenheim Fellow 1956, McCosh Fellow 1962; Pres. Soc. of American Historians 1962-69. *Publications include:* Charles J. Bonaparte, John Bach McMaster, Rendezvous with Destiny: A History of Modern American Reform, The Crucial Decade, America 1945-55, The Crucial Decade—and After, America 1945-60, The Tragedy of Lyndon Johnson 1969. *Address:* 213 Palmer Hall, Princeton University, Princeton, N.J., U.S.A. *Telephone:* 609-924-6444.

GOLDMAN, Sir Samuel, K.C.B.; British banker and fmr. civil servant; b. 10 March 1912, London; s. of late Philip and Sarah Goldman; m. Patricia Rosemary Hodges 1943; one s.; ed. Raines Foundation School, Davenant Foundation School and London School of Econs; Moody's Economist Services 1934-38; Sebag and Co. 1938-39; Bank of England 1940-47; joined Civil Service as statistician, Central Statistical Office Jan. 1947, transferred to Treasury 1947, Chief Statistician 1948, Asst. Sec. 1952, Under-Sec. 1960, Third Sec. 1962; Second Perm. Sec., Treasury 1968-72; Chair. Fraser Ansbacher Ltd., Henry Ansbacher Ltd.; Chair. Covent Garden Market Authority. *Leisure interests:* gardening, music. *Address:* The Old Orchard, Danes Hill, Oxshott, Surrey, England. *Telephone:* Oxshott 2052.

GOLDMANN, Nahum; Israeli (fmrly. American) Zionist leader; b. 10 July 1895, Wisznewo, Lithuania; s. of Salomon and Rebecca Goldmann; m. Alice Gottschalk 1934; two s.; ed. Heidelberg, Berlin and Marburg Univs; Editor and Publisher German Hebrew Encyclopedia 1922-34; mem. Zionist Political Comm. 1927; Act. Chair. Zionest Action Cttee. 1933; escaped from Germany 1934; Rep. of Jewish Agency to L.N.; in U.S. 1940-64; Pres. World Jewish Congress 1951-77, World Zionist Org. 1956-68, Conf. on Jewish Claims against Germany; Chair. Cttee. on Jewish Material Claims against Austria 1950-, Memorial Foundation for Jewish Culture. *Address:* 18 Ahad Haam, Jerusalem, Israel; 12 avenue Montaigne, Paris, France.

GOLDREICH, Peter, PH.D.; American professor of planetary science and astronomy; b. 14 July 1939, New York, N.Y.; s. of Paul Goldreich and Edith Rosenfield Goldreich; m. Susan Kroll 1960; two s.; ed. Cornell Univ; Post-Doctoral Fellow Cambridge Univ. 1963-64; Asst. Prof. Astronomy and Physics, Univ. of Calif. (Los Angeles Campus) 1964-66, Assoc. Prof. 1966; Assoc. Prof. Planetary Science and Astronomy Calif. Inst. Tech. 1966-69, Prof. 1969-; mem. Nat. Acad. of Sciences 1972-. *Publications:* on planetary dynamics, pulsar theory, radio emission from Jupiter, galactic stability and interstellar masers. *Leisure interests:* competitive athletics. *Address:* California Institute of Technology, Pasadena, Calif. 91109 (Office); Page House, California Institute of Technology, Pasadena, Calif. 91126, U.S.A. (Home).

GOLDS, Anthony Arthur, C.M.G., M.V.O.; British diplomatist; b. 31 Oct. 1919, Macclesfield, Cheshire; s. of Arthur O. and Florence (née Massey) Golds; m. Suzanne Macdonald Young 1944; one s. one d.; ed. King's School, Macclesfield and New Coll., Oxford; served Royal Armoured Corps 1939-46; Commonwealth Relations Office (C.R.O.) 1948-51; First Sec., Calcutta and Delhi 1951-53; S.

Asia Dept., C.R.O. 1953-56; First Sec. Ankara 1957-59, Karachi 1959-61; Counsellor, Head of Malaysia/Indonesia Dept., Foreign Office/C.R.O. 1961-65; Counsellor, Rome 1965-70; Amb. to Cameroon, Gabon and Equatorial Guinea 1970-72; High Commr. in Bangladesh 1972-74; Senior Civilian Instructor, Royal Coll. of Defence Studies 1975-76; Dir. British Nat. Cttee. of ICC 1977-. *Leisure interests:* literature, cricket, rugby, golf. *Address:* British National Committee of ICC, 6-14 Dean Farrar Street, London, S.W.1, England.

GOLDSCHMIDT, Bertrand, DR. ÈS SC.; French scientist; b. 2 Nov. 1912, Paris; m. Naomi de Rothschild 1947; one s. one d.; ed. Ecole de Physique et de Chimie, Univ. of Paris; Asst. Curie Lab., Paris 1935-40; Section Leader Anglo-Canadian Atomic Project 1942-45, Head, Chemistry Div. 1946; Head, Chemistry Div. Commissariat à l'Energie Atomique 1946-59, Head, External Relations Div. 1953-59, Head, External Relations and Planning 1959-70, Head Int. Relations Div. 1970-77, Adviser 1978-; Gov. for France IAEA 1957; Prof. Inst. d'Etudes Politiques 1960-65; Exec. Vice-Pres. European Atomic Energy Soc. 1955-58; Pres. Soc. Industrielle des Minerais de l'Ouest 1955-61; Commdr. Légion d'honneur; Atoms for Peace Award 1967; mem. Scientific Advisory Cttee. to IAEA 1959. *Publications:* L'aventure atomique 1962, Les rivalités atomiques 1967. *Address:* Commissariat à l'Energie Atomique, 29-33 rue de la Fédération, Paris 15e (Office); 11 boulevard Flandrin, Paris 16e, France (Home). *Telephone:* 504-11-93 (Home).

GOLDSMITH, Sir James Michael, Kt.; British industrialist; b. 26 Feb. 1933, Paris; s. of Frank Goldsmith and Marcelle Mouiller; m. 1st Isabel Patino 1954; m 2nd Ginette Lery 1958 (dissolved); m. 3rd Annabel Vane Tempest Stewart; five c.; ed. Eton College; Chair. and founder, Cavenham Ltd. 1965-; Chair. and founder Générale Occidentale S.A. 1969-; Vice-Pres. Groupe Express, Paris; Dir. Grand Union, U.S.A., Soc. des Hotels Réunis, Banque Rothschild, Banque Occidentale pour l'Industrie et le Commerce, Patino Ltd., Patino Mines N.V. *Address:* 65-68 Leadenhall Street, London, EC3A 2BA, England; 42 Avenue Friedland, 75008 Paris, France. *Telephone:* 01-480-5676 (England); 766-5197 (France).

GOLDSTEIN, Abraham S., M.A.; American professor of law; b. 27 July 1925, New York, N.Y.; s. of Isidore and Yetta (Crystal) Goldstein; m. Ruth Tessler 1947; one s. one d.; ed. City Coll. N.Y., Yale Law School and Cambridge Univ., England; Assoc., Cook and Berger, Washington, D.C. 1949; Law Clerk to Circuit Judge David Bazelon (q.v.), U.S. Court of Appeals 1949-51; Partner, Donohue and Kaufman 1951-56; Assoc. Prof., Yale Law School 1956-61, Prof. 1961-, Dean 1970-75, Sterling Prof. of Law 1975-; Provost Yale Univ. 1978-; Fellow, Branford Coll., Yale Univ. 1962-; Visiting Prof. of Law, Stanford Law School 1963; Visiting Fellow, Christ's Coll. 1964-65; mem. Faculty, Salzburg Seminar in American Studies 1969; Visiting Prof. Hebrew Univ. Jerusalem 1976; mem. Comm. to Revise Criminal Statutes of Comm. 1966-70; Consultant, President's Comm. on the Admin. of Criminal Justice 1966-67; mem. Gov.'s Planning Comm. of Criminal Admin. 1967-71, mem. Conn. Board of Parole 1967-69; Vice-Pres. Conn. Bar Foundation 1976-; Sr. Vice-Pres. American Jewish Congress 1977-; Hon. M.A. (Cambridge, Yale). *Publications:* The Insanity Defence 1967, Crime, Law and Society (with J. Goldstein) 1971, Criminal Procedure (with L. Orland) 1974; articles and book reviews in professional journals. *Address:* Yale Law School, New Haven, Conn. 06520 (Office); 35 Hillhouse Avenue, New Haven, Conn. 06511, U.S.A. (Home).

GOLDSTEIN, Rabbi Israel, M.A., D.D., D.H.L., D.HUM.LITT., PH.D., LL.D.; American rabbi; b. 18 June 1896, Philadelphia, Pa.; s. of David and Fannie Goldstein; m. Bertha Markowitz 1918; one s. one d.; ed. Univ. of Pennsylvania, Jewish Theological Seminary of America, and Columbia Univ; Rabbi Congregation B'nai Jeshurun New York 1918-60, Rabbi Emer. 1961-; Pres. Jewish Conciliation Board of America 1929-68 (now Hon. Pres.), Jewish Nat. Fund of America 1933-43 (now Hon. Pres.), Synagogue Council of America 1942-44, Zionist Org. of America 1944-46; Assoc. Consultant to U.S. Del. UN Conf. San Francisco 1945; Chair. World Confed. of Gen. Zionists 1946-71 (now Hon. Pres.), United Palestine Appeal 1947-49; Co-Chair. United Jewish Appeal 1947-47; Treas. Jewish Agency 1947-49; Pres. Amidar Israel Nat. Housing Co. for Immigrants 1948-49; mem. World Jewish Congress Exec. 1948- and Chair. of its Western Hemisphere Exec. 1950-60, Hon. Vice-Pres. 1959-; Pres. American Jewish Congress 1951-58, now Hon. Pres.; Pres. World Hebrew Union; mem. Jewish Agency for Israel Exec. 1948-71; World Chair. Keren Hayesod-United Israel Appeal 1961-71; Chair. Jerusalem Artists' House 1963-68; Deputy Chair. Board of Govs. Hebrew Univ. of Jerusalem; mem. Board of Govs. Weizmann Inst. of Science, World Directorate of Jewish Nat. Funds, Univ. of Haifa; Hon. Pres. Israel Interfaith Comm., Int. Synagogue, Kennedy Int. Airport, N.Y.; Vice-Pres. Conf. Jewish Orgs. on Material Claims against Germany 1951-70; mem. Joint Exec. Board Jewish Claims on Austria 1952-65; Pres. Jewish Restitution Successor Org. 1950-61; Chair. Jerusalem Council Israel-America Friendship League; Hon. Vice-Chair. Liberal Party 1950-; Founder Brandeis Univ. 1946; Hon. degrees from New York Univ., Univ. of Pa., Brandeis Univ., Dropsie Univ., Hebrew Univ. of Jerusalem; Israel Goldstein Chair in Zionism at Hebrew Univ. of Jerusalem; Israel Goldstein Chair in Practical Theology, Jewish Theological Seminary of America, Israel Goldstein Synagogue Hebrew Univ.; Israel Goldstein Youth Village, Jerusalem; Citation, Distinguished Citizen of Jerusalem. *Publications:* A Century of Judaism in New York 1930, Towards a Solution 1940, Mourner's Devotions 1941, Brandeis University 1951, American Jewry Comes of Age 1955, Transition Years 1962, Israel at Home and Abroad 1973. *Address:* 12 Pinsker Street, Jerusalem, Israel. *Telephone:* 36020, 30907.

GOLDSTEIN, Sydney, PH.D., F.R.S.; British university professor; b. 3 Dec. 1903, Hull; s. of Joseph Abraham and Hilda (Jacobs) Goldstein; m. Rosa R. Sass 1926; one s. one d.; ed. Bede Collegiate School, Sunderland, Univs. of Leeds and Cambridge; Rockefeller Research Fellow Univ. of Göttingen 1928-29; Lecturer in Applied Mathematics, Univ. of Manchester 1929-31; Univ. of Cambridge 1931-45; Fellow, St. John's Coll., Cambridge 1929-32, 1933-45, Hon. Fellow 1965-; Leverhulme Research Fellow, Calif. Inst. of Tech. 1938-39; Aerodynamics Div., Nat. Physical Lab. 1939-45; Beyer Prof. of Applied Mathematics, Univ. of Manchester 1945-50; Chair. Aeronautical Research Council of Great Britain 1946-49; Prof. of Applied Mathematics, Technion Israel Inst. of Tech., Haifa 1950-55, Chair. Aeronautical Eng. 1950-54, Vice-Pres. 1951-54; Gordon-McKay Prof. of Applied Mathematics, Harvard Univ. 1955-70, Emer. Prof. 1970-; foreign mem. Royal Netherlands Acad. of Sciences; Hon. fellow Weizmann Inst. of Sciences, British Inst. of mathematics and its Applications; Hon. F.R.Ae.S.; Dr. h.c. of Eng. (Purdue Univ. 1967), of Science (Case Inst. of Tech. 1967, Technion Israel Inst. of Tech. 1969, and Leeds 1973); Timoshenko Medal (American Soc. Mech. Eng.) 1965. *Publications:* Lectures on Fluid Mechanics 1960; Editor: Modern Developments in Fluid Dynamics 1938 (Dover edn. 1965); papers on mathematics, mathematical physics, hydrodynamics and aerodynamics. *Address:* 28 Elizabeth Road, Belmont, Mass. 02178, U.S.A.

GOLDSTÜCKER, Eduard, PH.D.; Czechoslovak university professor; b. 30 May 1913, Podbiel; s. of Jozef Goldstücker and Terezie Altmann; m. Marta Borčová 1937; two d.; ed. Charles Univ., Prague, and Oxford Univ., England; Sec. of League for Human Rights, Prague 1936-38; secondary school teacher 1938-39; in U.K. 1939-45, worked at Czechoslovak Ministry of Foreign Affairs in London 1943-44; Ambassadorial Sec., Paris 1944-45; Deputy Amb. in London 1947-49; Envoy to Tel-Aviv 1950-51; political imprisonment 1951-55; Dept. of German Literature, Faculty of Philosophy, Charles Univ., Prague 1956-69, Prof. 1963-69, Pro-Rector of Charles Univ. 1966-69; Chair. Union of Czechoslovak Writers 1968-69; Deputy to Czech Nat. Council 1968-69; Visiting Prof. of Comparative Literature, Univ. of Sussex 1969-71, Prof. 1971-; Visiting Fellow, Center for the Study of Democratic Insts., Santa Barbara, Calif. 1972-73; Corresp. mem. Deutsche Akad. für Sprache und Dichtung 1976-; several awards including Goethe Gold Medal of Goethe Inst., Munich 1967, Klement Gottwald Award 1968; deprived of state citizenship of Czechoslovak Socialist Repub. 1974. *Publications:* History of German literature, especially German literature in Prague; Rainer Maria Rilke und Franz Werfel 1960, Franz Kafka 1964 (Prize of Publishing House of Czechoslovak Writers), Libertà e Socialismo 1968, The Czech National Revival, the Germans and the Jews 1972. *Address:* c/o University of Sussex, Falmer, Brighton, Sussex, BN1 9QX, England.

GOLDWATER, Barry; American politician; b. 1 Jan. 1909; ed. Staunton Military Acad., Univ. of Arizona; Republican Senator from Arizona 1952-64, 1969-; Republican candidate for Pres. of United States 1964; Goldwater's Inc. 1929-, Pres. 1937-53, Chair. Board 1953-; U.S. Army Air Force 1941-45. *Publications:* Arizona Portraits 1940, Journey Down the River of Canyons 1940, Speeches of Henry Ashurst: The Conscience of a Conservative 1960, Why Not Victory? 1960, Where I Stand 1964, The Face of Arizona 1964, People and Places 1967, Conscience of a Majority 1970, Delightful Journey 1971. *Address:* United States Senate, Washington, D.C. 20510, U.S.A.

GOŁUBIEW, Antoni; Polish novelist; b. 25 Feb. 1907, Wilno; s. of Mikołaj and Antonina Gołubiew; m. Janina 1933; two s. two d.; ed. Univ. of Wilno. Literary début 1926; Editor, bi-weekly Pax 1934-36; co-editor Tygodnik Powszechny (weekly publ.); Cracow Regional prize for historical cycle 1948, Readers' Prize of Odra-weekly 1948, Pietrzak Prize 1951, Knight's and Commdr.'s Cross, Order of Polonia Restituta 1955, 1975, Minister of Culture and Art Prize (1st Class) 1977. *Publications:* Cycle of historical novels

Bolesław Chrobry: Puszcza (The Forest), Szło Nowe (The Coming of the New), Złe dni (Bad Days), Rozdroża (Crossroads), Wnuk (The Grandson) 1974; Essays: Listy do Przyjaciela (Letters to a Friend) 1955, Poszukiwania (Searches) 1960, Unoszeni Historią (Carried by History) 1971, Świadkowie przemian (The Witnesses of Change) 1974; Short stories: Na Drodze (The Road), Spotkania na Świętokrzyskiej (Encounter in Świętokrzyska Street) 1975. *Leisure interest:* fishing. *Address:* Ul. Jaskółcza 4, 31-105 Cracow, Poland. *Telephone:* 5-0202.

GOLZIO, Silvio; Italian statistician and business executive; b. 2 Feb. 1909; ed. Università degli Studi, Turin; Univ. lecturer, Florence and Turin Univs.; deported to Germany 1943-45; Head, Research Office Comitato Interministriale per la Ricostruzione 1947-50; Dir. Istituto Nazionale delle Assicurazioni; Gen. Man. then Pres. Soc. Idroelettrica Piemonte; Pres. and Man. Dir. Soc. Finanziaria Telefonica (STET) 1961-; Dir.-Gen. Istituto Ricostruzione Industriale 1964-; Chair. Credito Italiano; Pres. Italian Business Press Assen.; two war decorations. *Address:* Piazza Solferino 11, Turin, Italy.

GOMA, Maj. Louis Sylvain; Congolese army officer and politician; b. 1941; ed. Versailles and Saint-Cyr; Asst. Dir. of Mil. Engineers until 1968; Chief of Staff of Congolese People's Nat. Army 1968-, promoted Capt. 1968; mem. Parti Congolais du Travail (PCT) 1969-, Cen. Cttee. 1970-, Special Gen. Staff of Revolution 1974-, Political Bureau; Sec. of State for Defence 1969-70; Minister of Public Works and Transport 1970-74; promoted Maj. 1973; Chief of Gen. Staff of Armed Forces 1974-; Prime Minister, responsible for Plan Dec. 1975-; mem. Council of State 1975-77; mem. PCT Mil Cttee. (Second Vice-Pres.) March 1977-. *Address:* Office du Premier Ministre, Brazzaville, Congo People's Republic.

GOMBAULT, Charles Henri; French journalist; b. 25 Aug. 1907; m. Primrose Bordier 1966; one s. one d.; ed. Lycée Condorcet, Paris; Journalist Le Soir, later Le Populaire 1927; Soc. and Political Journalist, Paris-Midi, Paris-Soir 1928-39; Asst. Editor-in-Chief Match 1939; Ed. and co-founder, France London 1940-45; Sec.-Gen., later Editor-in-Chief, France-Soir 1945, Man. Dir. 1960-70; Administrator, Editions de Montsouris 1973-; Officier, Légion d'honneur. *Address:* 17 avenue des Sycomores, 75016 Paris, France (Home).

GOMBOJAV, Damdingiin; Mongolian politician; b. 12 April 1919; ed. Inst. of Oriental Studies, Inst. of Foreign Trade, U.S.S.R.; Head of Import Dept., Foreign Trade Board, Deputy Trade Minister 1954-56; Trade Rep. in Moscow 1956-60; Minister of Foreign Trade 1960-65; Deputy Chair. Council of Ministers, Chair. Comm. for CMEA (Comecon) Affairs 1965-77; Sec. Cen. Cttee., Mongolian People's Revolutionary Party (MPRP) 1977-, Alternate mem. Political Bureau MPRP; Deputy to the Great People's Hural (Ass.). *Address:* c/o Central Committee of the Mongolian People's Revolutionary Party, Ulan Bator, Mongolia.

GOMBRICH, Sir Ernst (Hans Josef), Kt., C.B.E., PH.D., F.B.A., F.S.A., F.R.S.L.; British art historian; b. 30 March 1909, Vienna, Austria; s. of Dr. Karl Gombrich and Prof. Leonie (née Hock); m. Ilse Heller 1936; one s.; ed. Theresianum, Vienna, and Vienna Univ; Research Asst., Warburg Inst., Univ. of London 1936-39; BBC Monitoring Service, Second World War; Senior Research Fellow, Warburg Inst. 1946-48, Lecturer 1948-54, Reader 1954-56, Special Lecturer 1956-59, Dir. 1959-76; Prof. of History of the Classical Tradition, Univ. of London 1959-76, Prof. Emer. 1976-; Slade Prof. of Fine Art, Univ. of Oxford 1950-53; Durning-Lawrence Prof. of History of Art, Univ. Coll., London 1956-59; Visiting Prof. Harvard Univ. 1959; Slade Prof. of Fine Art, Univ. of Cambridge 1961-63; Hon. Fellow, Jesus Coll., Cambridge 1963; Prof. at Large, Cornell Univ. 1970-76; Trustee, British Museum 1974-; mem. Standing Comm. on Museums and Galleries 1976-; Corresp. mem. Turin, Uppsala and Netherlands Acads.; Hon. mem. American Acad. of Arts and Sciences; Foreign mem. American Philosophical Soc.; Hon. Fellow, R.I.B.A.; Hon. D.Lit. (Queen's Univ., Belfast), Hon. LL.D. (St. Andrews), Hon. D.Litt. (Leeds, Oxford), Hon. Litt.D. (Cambridge, Manchester), Hon. D.Hum.Litt. (Chicago Univ.) 1975, (Pa. Univ.) 1977, Hon. D.Litt. (Harvard, London) 1976, D.Univ. (Essex) 1977; W. H. Smith and Son Annual Literary Award 1964; Medal of N.Y. Univ. 1970; Erasmus Prize 1975; Austrian Cross of Honour 1st class 1975; Pour le Mérite 1977; Hegel Prize from City of Stuttgart 1977. *Publications:* Caricature (with E. Kris) 1940, The Story of Art 1950, (14 editions), Art and Illusion 1959, Meditations on a Hobby Horse 1963, Norm and Form 1966, In Search of Cultural History 1969, Aby Warburg 1970, Symbolic Images 1972, Illusion in Nature and Art (ed. with R. L. Gregory) 1973, Art History and the Social Sciences 1974, The Heritage of Apelles 1976, The Sense of Order 1979. *Leisure interest:* music. *Address:* 19 Briardale Gardens, London, N.W.3, England. *Telephone:* 01-435 6639.

GOMES, Gen. Francisco da Costa; Portuguese army officer; b. 30 June 1914, Chaves; s. of António José Gomes and Idalina Júlia Monteiro da Costa Gomes; m. Maria Estela née Furtado de Antas Varejao 1952; one s.; ed. Military Coll., Cavalry School, Univs. of Coimbra and Oporto and Inst. de Altos Estudos Militares; Chief of Staff, Military Command, Macau 1949-51; mem. H.Q. staff, NATO, Norfolk, U.K., 1954-56; Under-Sec. of Army Staff 1959-61; 2nd-in-Command Mil. Forces, Mozambique 1965-68; C.-in-C. Mil. Forces, Mozambique 1968-69; C.-in-C. Mil. Forces, Angola 1970-72; Chief of Staff, Armed Forces of Portugal 1972-74, 1974-76; mem. Junta Nacional de Salvação 1974-75; Pres. of Portugal 1974-76; mem. Supreme Revolutionary Council of Armed Forces Movt. 1975-76; Grand Officer Ordem Nacional do Cruzeiro do Sul do Brasil, Medalha de Mérito Militar 1st Class, Campaign Medals Mozambique, Angola, and numerous other awards. *Leisure interests:* riding, swimming. *Address:* c/o Palácio de Belém, Lisbon, Portugal.

GÓMEZ BERGÉS, Víctor; Dominican lawyer and politician; b. 25 Feb. 1940, Santiago de los Caballeros; ed. Univ. Autónoma de Santo Domingo; Asst. legal officer, Dept. of Formal Complaints, Secr. for Admin., Control and Reclamation of Nat. Resources 1962, Head, Dept. of Complaints 1963, Deputy Sec. of State for Admin., Control and Reclamation of Nat. Resources 1963, for Agriculture 1964; Sec. of State for Interior and Police 1965; Sec. Gen. Dominican Municipal League 1966; Sec. of State for Educ., Fine Art and Culture 1970-72; Sec. of State for Foreign Affairs 1972-75; Sec. of State without Portfolio 1975-77; Sec. of State for Finance 1977; Sec. of State for Industry and Commerce 1977-; mem. Nat. Devt. Comm.; del. to numerous int. confs.; Orden de Duarte, Sánchez y Muella. *Address:* Secretaría de Estado de Finanzas, Calle México, Santo Domingo, D.N., Dominican Republic.

GOMORY, Ralph Edward, PH.D.; American mathematician and business executive; b. 7 May 1929, Brooklyn, N.Y.; s. of Andrew L. Gomory and Marian Schellenberg; m. Laura Secretan Dumper 1954 (divorced 1968); two s. one d.; ed. Williams Coll., King's Coll. Cambridge Univ. and Princeton Univ; Lieut., U.S. Navy 1954-57; Higgins Lecturer and Asst. Prof., Princeton Univ. 1957-59; joined IBM 1959, Fellow 1964, filled various managerial positions including Dir. Mathematical Science Dept., Dir. of Research 1970, Vice-Pres. 1973-; Andrew D. White Prof.-at-Large, Cornell Univ. 1970-76; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng.; Fellow, Econometric Soc., American Acad. of Arts and Sciences 1973; Trustee, Hampshire Coll. 1977-; Hon. D.Sc. (Williams Coll.) 1973; Lanchester Prize, Operations Research Soc. of America 1964. *Publications:* many papers in mathematical journals. *Leisure interests:* history, skiing, sailing, tennis. *Address:* 260 Douglas Road, Chappaqua, N.Y., U.S.A. (Home). *Telephone:* (914) 238-8522 (Home).

GOMUŁKA, Władysław (Wiesław); Polish politician; b. 6 Feb. 1905, Krosno; Sec. of several Trade Union Orgs. 1927, and leader of Polish working class for many years; imprisoned twice by the Sanacja regime for his anti-Fascist activities; took active part in Defence of Warsaw 1939; joined ranks of PWP immediately it was formed; organized detachments and groups People's Army in Sub-Carpathian district; Sec. Warsaw group PWP 1942; Sec. Cen. Cttee. 1943-48; an initiator of armed opposition against Germans and an organizer of Nat. Council of Poland; first Deputy Prime Minister, Polish Govt. of Nat. Unity June 1945; Vice-Premier and Minister for Regained Territories 1945-49; Vice-Pres. Supreme Nat. Control Chamber Jan.-Sept. 1949; expelled from United Workers' Party Nov. 1949; arrested 1951, released Dec. 1954; First. Sec. Cen. Cttee. Polish United Workers' Party 1956-70; Deputy to Seym 1947-49, 1957-72; mem. Council of State 1957-71; retd. 1971; numerous Polish and foreign decorations.

GONÇALVES, Brig.-Gen. Vasco dos Santos; Portuguese army officer; b. 3 May 1921, Lisbon; m.; one s. one d.; ed. Mil. Coll., Army School; joined Portuguese Army 1942; mem. teaching staff, Bridges and Roads Section, Army School; promoted to rank of Lieut. 1946, Capt. 1954, Maj. 1963, Lieut.-Col. 1967, Brig. 1974; various commissions in Eng. Branch of Army, later mem. Directorate, Eng. Branch; mem. Armed Forces Movt. 1974-75, Junta of Nat. Salvation 1974-75, Supreme Revolutionary Council March-Sept. 1975; Prime Minister 1974-75; several awards and decorations. *Address:* c/o Office of the Prime Minister, Lisbon, Portugal.

GONDA, Jan, PH.D.; Netherlands Sanskrit scholar; b. 14 April 1905, Gouda; s. of Jan Gonda and Martha J. Derksema; m. Henriette Wijnholt 1962; ed. State Univ. Utrecht and Leiden; Extraordinary Prof. Sanskrit State Univ. Utrecht 1932-41, Prof. Sanskrit and Indo-European Linguistics 1941-75; mem. Royal Dutch Acad. of Sciences; Hon. Fellow Royal Asiatic Soc.; Hon. Foreign Mem. American Acad. of Arts and Sciences. *Publications:* Oud-Javaans Brahmanda Purana (2 vols.) 1932, Similes in Sanskrit Literature 1939, Ursprung und Wesen des indischen Dramas 1940, Sanskrit

in Indonesia 1952, Repetition in the Veda 1959, Die Religionen Indiens (Vol. I) 1960, (Vol. II) 1963, Visnuism and Sivaism 1970, Old Indian 1971, The Vision of the Vedic Poets 1963, The Savayajñas 1965, Dual Deities 1974, Vedic Literature 1975, Selected Studies (5 vols.) 1975, Medieval Religious Literature in Sanskrit 1977, The Ritual Sutras 1977, Vedic Hymns not Employed in the Solemn Ritual 1978 and many other works on Sanskrit and Indo-European linguistics. *Leisure interests:* walking, music. *Address:* 13 van Hogendorpstraat, Utrecht, Netherlands (Home). *Telephone:* 030-516531.

GONELLA, Guido; Italian lawyer, journalist and politician; b. 18 Sept. 1905; ed. Univs. of Milan, Rome, Paris, London and Berlin; Asst. in Faculty of Philosophy of Law, Univ. of Rome 1925; Prof. of Philosophy of Law, Bari and Pavia; Editor Osservatore Romano 1932; founder of clandestine newspaper Popolo 1943; Dir. of Popolo (official organ of Christian Dem. Party) 1944-46; mem. of Constituent Assembly; Minister of Educ. 1946-51; Minister without Portfolio 1951-53; Minister of Justice 1953-54, 1957-58, 1958-59, 1959-60, 1960-62, June-Dec. 1968; mem. of Parl. 1948-; Vice-Pres. Chamber of Deputies 1966-72; mem. Senate 1972-; fmr. Sec.-Gen. Christian Democratic Party. *Publications:* La valutazione del machiavellismo nell' etica di B. Croce 1930, I dualismi nella dottrina eticogiuridica di Hegel 1932, Al di qua del bene e del male 1932, La filosofia del diritto secondo Antonio Rosmini 1934, La dottrina della personalità ed alcuni suoi riflessi sociali 1934, Etudes critiques 1936, Schopenhauer—Studien in Rom 1937, La persona nella filosofia del diritto 1938, La crisi del contrattualismo 1938, La nozione di bene comune 1938, Principi di un ordine sociale 1942, Presupposti di un ordine internazionale 1943, Pace romana e pace cartaginese 1947. *Address:* Camera dei Deputati, Rome, Italy.

GONZÁLEZ CASANOVA, Pablo; Mexican researcher and professor; b. 11 Feb. 1922, Toluca; s. of Pablo González Casanova and Concepción del Valle; m. Natalia Henríquez Ureña 1947; three s.; ed. El Colegio de México, Escuela Nacional de Antropología, Univ. Nacional Autónoma de México and Univ. de Paris; Asst. Researcher, Inst. de Investigaciones Sociales, Univ. Nacional Autónoma de México (UNAM) 1944-50, Researcher 1950-52, Full-time Researcher 1973-78; Researcher, El Colegio de México 1950-54; Sec. Gen. Asscn. of Univs. 1953-54; Titular Prof. of Mexican Sociology, Escuela Nacional de Ciencias Políticas y Sociales, UNAM 1952-66, of Gen. Sociology 1954-58; Dir. Escuela Nacional de Ciencias Políticas y Sociales 1957-65, Full-time Titular Prof. 1964-65, Titular Prof. of Research Planning 1967-; Dir. Inst. Investigaciones Sociales, UNAM 1966-70; Rector, UNAM 1970-72; Pres. Admin. Cttee. Facultad Latinoamericana de Ciencias Sociales, Santiago and Centro Latinoamericano de Investigaciones Sociales, Rio de Janeiro, UNESCO 1959-65; mem. Assn. Int. de Sociologues de Langue Française, Comité Int. pour la Documentation des Sciences Sociales, Acad. de la Investigación Científica; Pres. Asociación Latinoamericana de Sociología 1969-72. *Publications:* El misoneísmo y la modernidad cristiana 1948, Satira del Siglo XVIII (with José Miranda) 1953, Una utopia de América 1953, La literatura perseguida en la crisis de la Colonia 1958, La ideología norteamericana sobre inversiones extranjeras 1955, Estudio de la técnica social 1958, La Democracia en México 1965, Las categorías del desarrollo económico y la investigación en ciencias sociales 1967, Sociología de la explotación 1969, América Latina: Historia de Medio Siglo 1925-1975 (2 vols., Editor) 1977, Historia del Movimiento Obrero en América Latina, Siglo XX 1979, El Estado y los Partidos Políticos en México 1979. *Address:* Avenida San Jerónimo 766 (Antes 92), México 20, D.F., Mexico. *Telephone:* 548-65-00.

GONZÁLEZ MARQUEZ, Felipe; Spanish lawyer and politician; b. 1942, Seville; m. Carmen Romero; two s.; ed. lower and high school, school of law; on graduating from law school opened first labour law office to deal with workers' problems in Seville 1966; mem. Spanish Socialist Youth 1962; mem. Spanish Socialist Party (Partido Socialista Obrero Español PSOE) 1964-, mem. Nat. Cttee. 1965-70, mem. Exec. Board 1970, First Sec. 1974-79. *Publications:* What is Socialism? 1976, P.S.O.E. 1977. *Leisure interest:* reading. *Address:* Calle Joaquín García Morato 165, Madrid 3, Spain. *Telephone:* 2544107.

GONZÁLEZ MARTÍN, H.E. Cardinal Marcelo; Spanish ecclesiastic; b. 16 Jan. 1918, Villanubla, Valladolid; ordained 1941; consecrated Bishop of Astorga 1961; titular Archbishop of Case Mediane 1966; auxiliary Archbishop of Barcelona 1967; Archbishop of Toledo and Primate of Spain 1971-; created Cardinal by Pope Paul VI 1973. *Address:* Arco de Palacio 1, Toledo, Spain. *Telephone:* 224 100.

GONZI, Most Rev. Michael, K.B.E., D.D., J.C.D., B.LITT.; Maltese ecclesiastic; b. 13 May 1885, Vittoriosa; s. of Joseph Gonzi and Maria Anna Tonnei; ed. Seminary and Royal Univ., Malta, and Beda Coll., Rome; ordained priest 1908, Prof. Holy Scripture and Hebrew, Malta Univ., 1915; Senator Malta Legislature 1921; Canon Theologian Malta Cathedral Chapter 1923; Bishop of Gozo 1924, of Malta 1943, Archbishop and Metropolitan of Malta 1944-77 (duties performed by Apostolic Admin. 1975-77); Asst. at the Pontifical Throne 1949. *Address:* Archbishop's Palace, Valletta, Malta.

GOODALE, Sir Ernest William, Kt., C.B.E., M.C.; British solicitor; b. 6 Dec. 1896, Mortlake, Surrey; s. of William Thomas Goodale and Frances Mary Wheatley; m. 1st Gwendolen Branscombe Warner 1924 (died 1972), one s. one d.; m. 2nd Pamela J. Bone 1973; ed. Richmond Secondary School; legal Exec. and partner in firm Minet Pering Smith & Co., Solicitors 1920-28; Sec. and Dir. Warner & Sons Ltd. 1928-30, Man. Dir. 1930-61, Chair. 1949-70, Dir. 1970–; Hon. Vice-Pres. Int. Silk Assn. 1949-68; Vice-Pres. British Man-Made Fibres Fed. 1943-73; Pres. Textile Inst. 1939-40, 1957-59; Vice-Pres. Inst. of Export 1956-66; Chair. Furnishing Fabric Fed. 1945-68, Furnishing Fabric Export Group 1942-67; Hon. Pres. Furnishing Fabric Mfrs.' Assn., etc.; Pres. British Colour Council 1953-70; mem. Council Royal Soc. of Arts 1935-, Chair. 1949-51, Vice-Pres. 1950-; mem. Court, Weavers Co. 1946-; mem. Nat. Advisory Council on Art Educ. 1959-66; Hon. Fellow, Soc. Industrial Artists and Designers. *Leisure interest:* philately. *Address:* "Branscombe", Nutcombe Lane, Dorking, Surrey, England. *Telephone:* 0306-2718.

GOODELL, Charles Ellsworth, LL.B., M.GOVT.; American politician; b. 16 March 1926, Jamestown, N.Y.; s. of Dr. Charles E. Goodell and Francesca Bartlett; m. Jean Rice 1954; five s.; ed. Williams Coll. and Yale Univ.; Instructor, Quinnipiac Coll., New Haven 1950-51; admitted to Conn. Bar 1951, New York Bar 1954; Congressional Liaison Asst., Dept. of Justice 1954-55; Partner law firm Van Vlack, Goodell & McKee, Jamestown, New York 1955-59, Roth, Carlson, Kwit, Spengler & Goodell, New York 1971-73, Hydeman, Mason & Goodell, Washington, D.C. 1974-; Chair. Presidential Clemency Board 1974-75; mem. U.S. House of Reps. 1959-68; Senator from New York State 1968-71; Republican. *Publication:* Political Prisoners in America 1973. *Leisure interests:* golf, swimming, spectator sports, reading. *Address:* 1220 19th Street, N.W., Washington, D.C. 20036, U.S.A.

GOODENOUGH, Ward Hunt, PH.D.; American anthropologist; b. 30 May 1919, Cambridge, Mass.; s. of Erwin R. Goodenough and Helen M. Lewis; m. Ruth A. Gallagher 1941; two s. two d.; ed. Groton School, Cornell and Yale Univs.; Instructor in Anthropology, Univ. of Wis. 1948-49; Asst. Prof. of Anthropology, Univ. of Pa. 1949-54, Assoc. Prof. 1954-62, Chair. of Dept. 1977-, Prof. and Curator of Oceanian Ethnology 1962-; Visiting Prof. of Anthropology, Cornell Univ. 1961-62; Bd. Chair., Human Relations Area Files Inc. 1971-; mem. Bd. of Dirs. A.A.A.S. 1972-75; Pres. American Ethnological Soc. 1963, Soc. for Applied Anthropology 1964; mem. American Philosophical Soc., American Acad. of Arts and Sciences, Nat. Acad. of Sciences; Editor American Anthropologist 1966-70. *Publications:* Property, Kin and Community on Truk 1951, Cooperation in Change 1963, Explorations in Cultural Anthropology 1964, Description and Comparison in Cultural Anthropology 1970, Culture, Language and Society 1971. *Leisure interests:* music, stamp collecting. *Address:* University Museum, Philadelphia, Pa. 19104; 204 Fox Lane, Wallingford, Pa. 19086, U.S.A. *Telephone:* 215-243-7461 (Office); 215-565-1084 (Home).

GOODEVE, Sir Charles Frederick, Kt., O.B.E., D.SC., F.R.S., F.R.I.C.; British scientist; b. 21 Feb. 1904, Canada; s. of Canon F. W. Goodeve and Emma (Hand) Goodeve; m. Janet I. Wallace 1932; two s.; ed. Univs. of Manitoba, London; Lecturer and Reader in Chem., Univ. Coll., London 1929-39; Officer R.N.V.R. 1923-45, active service 1939-45; Dir. British Iron and Steel Research Assn. 1945-69; Consultant to British Steel Corpn. 1969-; Vice-Pres. Royal Soc. 1968-70; Dir. London and Scandinavian Metallurgical Co. 1971-; U.S. Medal of Freedom 1945, Bessemer Gold Medal 1962, Carl Lueg Gold Medal 1962, Silver Medal of Operational Research Soc. 1964. *Publications:* numerous articles in scientific journals on physical chemistry, operational research, process metallurgy. *Leisure interests:* ice-skating, swimming. *Address:* 38 Middleway, London, N.W.11, England. *Telephone:* 01-455 7308.

GOODISON, Nicholas Proctor, M.A., F.S.A., F.R.S.A.; British stockbroker; b. 16 May 1934, Radlett; s. of Edmund Harold Goodison and Eileen Mary Carrington Proctor; m. Judith Abel Smith 1960; one s. two d.; ed. Marlborough Coll. and King's Coll., Cambridge; joined H. E. Goodison & Co., of The Stock Exchange (now named Quilter, Hilton, Goodison & Co.) 1958, Partner 1962, Senior Partner 1975-; mem. Council of The Stock Exchange 1968-, Chair. various standing cttees. 1971-76, Chair. of The Stock Exchange 1976-; mem.

Exec. Cttee., Nat. Art-Collections Fund, Board English Nat. Opera, Board Burlington Magazine Publs.; Hon. Keeper of Furniture, Fitzwilliam Museum, Cambridge. *Publications:* English Barometers 1680-1860 1968, Ormolu: the Work of Matthew Boulton 1974; many papers and articles on the history of furniture, clocks and barometers. *Leisure interest:* history of furniture and decorative arts. *Address:* Garrard House, Gresham Street, London, E.C.2; and The Stock Exchange, Old Broad Street, London, E.C.2, England.

GOODMAN, Baron (Life Peer) cr. 1965, of the City of Westminster; **Arnold Abraham Goodman,** C.H., M.A., LL.M.; British solicitor and public official; b. 21 Aug. 1913; ed. Univ. Coll., London, and Downing Coll., Cambridge; Partner, Goodman Derrick & Co., Solicitors; Chair. Arts Council of Great Britain 1965-72, British Lion Films (Holdings) 1965-72; mem. South Bank Theatre Board 1968-, Industrial Reorganization Comm. 1969-71; Fellow, Univ. Coll., London; Chair. Assen. for Business Sponsorship of the Arts, Theatres' Trust, Theatre Investment Fund; Chair. Newspaper Publishers' Assen. 1970-76; Pres. Nat. Book League 1972-; mem. Board of Dirs. Royal Opera House, Covent Garden 1972-; Pres. Theatres Advisory Council 1972-; Chair. English Nat. Opera 1977-; Chair. Housing Corpn. and Nat. Building Agency 1973-77; Deputy Chair. British Council 1976-; appointed Master of Univ. Coll., Oxford 1976-; Dimbleby Memorial Lecture 1974; Hon. LL.D. (Bath) 1976. *Publication:* Not for the Record 1972. *Address:* Goodman Derrick & Co., 4 Little Essex Street, London, W.C.2, England.

GOODMAN, Benny; American musician; b. 30 May 1909, Chicago; with the Ben Pollack Band, Los Angeles 1925-29; radio and recording work, New York 1929-34; formed Benny Goodman Orchestra 1935; also formed smaller groups for "chamber jazz"; recorded commissioned works by Bartok, Copland and Hindemith 1940; European tour 1950; new orchestra formed 1957, toured American Univs. 1956-57, the Far East, Europe 1959, South America 1961, U.S.S.R. 1962, Japan 1964, Europe 1970, 1971, (with British musicians) 1972; guest soloist with various symphony orhcestra; numerous recordings; has appeared in the films Hollywood Hotel, Sweet and Low Down, Stage Door Canteen, etc.; recorded the soundtrack of The Benny Goodman Story 1956; Hon. LL.D. Ill. Inst. Tech. *Publication:* Kingdom of Swing (with Irving Kolodin). *Address:* 200 East 66th Street, New York, N.Y. 10021, U.S.A.

GOODMAN, Julian; American broadcasting executive; b. 1 May 1922, Glasgow, Ky.; s. of Charles Austin and Clara (Franklin) Goodman; m. Betty Davis 1946; three s. one d.; ed. Western Kentucky and George Washington Univs.; Vice-Pres., NBC News 1961-65; Senior Exec. Vice-Pres. NBC Inc. 1965, Pres. 1966-74, Chief Exec. Officer 1970-77, Chair. 1974-79; Dir. NBC, RCA Corpn., Associated Press; Trustee, The Museum of Broadcasting; Hon. LL.D. (William Jewell Coll., Liberty, Mo.), Hon. D. Hum. Litt. (Florida Univ.) 1973; George Foster Peabody Award 1947; Gold Medal, Int. Radio and TV Soc. 1972; Paul White Memorial Award, Int. Conf. of Radio and TV News Dirs. 1973; Distinguished Service Award, Nat. Assen. of Broadcasters 1976. *Leisure interests:* sailing, golf. *Address:* National Broadcasting Co. Inc., 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A. *Telephone:* 212-664-4444.

GOODMAN, Raymond John; British international civil servant; b. 26 Oct. 1916, London; s. of J. S. Goodman and Helena Taylor; m. Dorothy Bruchholz 1953; two s. two d.; ed. London School of Econs. and Univs. of Copenhagen and Oslo; War Service, R.N.V.R. 1940-46; Dir. Political and Econ. Planning (P.E.P.), London 1946-53; Asst. to Chair. of Marks and Spencer Ltd. 1953-56; joined World Bank as Loan Officer 1956, Asst. Dir. of Admin. 1962-65, Deputy Dir. Far East (later Asia) Dept. 1965-68, Dir. E. Asia and Pacific Dept. 1968-74, Dir. Financial Policy 1975-77, Asst. to Senior Vice-Pres. (Operations) 1977-; Hon. Vice-Pres. Consumers Assen. of G.B. 1957-; Pres. Group Health Assen. of Washington, D.C. 1962-63. *Address:* International Bank for Reconstruction and Development (World Bank), 1818 H Street, N.W., Washington, D.C. 20433 (Office); 2946 Macomb Street, N.W., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 477-2677 (Office); EM2-2946 (Home).

GOODPASTER, Gen. Andrew Jackson, M.S.E., PH.D.; American army officer; b. 12 Feb. 1915, Granite City, Ill.; s. of Andrew Jackson Goodpaster and Teresa Mary (Mrovka) Goodpaster; m. Dorothy Anderson 1939; two d.; ed. McKendree Coll., Lebanon, Ill., U.S. Mil. Acad., Command and Gen. Staff School, Fort Leavenworth, Kan., and Princeton Univ.; C.O. 48th Engineer Battalion, Italy 1943; Staff Officer, War Dept. 1944-47; Graduate study, Princeton Univ. 1947-50; Special Asst. to Chief to Staff, Supreme HQ Allied Powers Europe (SHAPE) 1950-54; District Engineer, San Francisco 1954; Staff Sec. to Pres. of U.S.A. 1954-61; Asst. Div. Commdr. 3rd Infantry Div. 1961; Commdg. Gen. 8th Infantry Div., Europe 1961-62; Asst. to Chair. Joint Chiefs of Staff 1962-66; Dir. Joint Staff, Org. of Joint Chiefs of Staff 1966-67; Commandant, Nat. War Coll., Washington, D.C., with added duty as U.S. Army Rep., UN Mil. Staff Cttee. 1967-68; mem. U.S. Del to Paris talks on Viet-Nam April-June 1968; Deputy Commdr. U.S. Mil. Assistance Command, Viet-Nam 1968-69; C.-in-C. U.S. European Command 1969-74; Supreme Allied Commdr. Europe (NATO) 1969-74; Fellow, Woodrow Wilson Int. Center for Scholars, Washington, D.C. 1975-76; Prof., Govt. and Int. Studies, The Citadel, Charleston, S.C. 1976-77; Supt. U.S. Mil. Acad., West Point April 1977-; Distinguished Service Cross, Defense D.S.M., Army D.S.M. with Three Oak Leaf Clusters, Navy D.S.M.; Air Force D.S.M., Silver Star, Legion of Merit with Oak Leaf Cluster, Purple Heart with Oak Leaf Cluster, numerous other U.S. and foreign decorations from Italy, Repub. of Korea, Repub. of Viet-Nam, Netherlands, Belgium, Luxembourg, Fed. Repub. of Germany, Turkey and Portugal. *Address:* U.S. Military Academy, West Point, N.Y. 10996, U.S.A.

GOODWIN, Sir Reg(inald), Kt., C.B.E.; British local government official; b. 3 July 1908, London; s. of Thomas William Goodwin and Lydia (née Warn); m. Penelope Mary Thornton 1943; two s. one d.; ed. Grammar School; Leader, Bermondsey Borough Council 1946-64; mem. London County Council, Chair. Finance, Housing, Gen. Purposes and Establishment Cttees. 1946-64; mem. Greater London Council 1964-, Deputy Leader 1964-67, Chair. Finance Cttee. 1964-67, Leader of Opposition 1967-73, 1977-, Leader of Council 1973-77; mem. Basildon Devt. Corpn. 1965-, Deputy Chair. 1970-; Man. Trustee, Muncipal Insurance Co. 1975-; mem. Court, Univ. of London 1966-; Asst. Gen. Sec. Nat. Assen. of Boys' Clubs 1934-45, Gen. Sec. 1945-73; Deputy Lieut. of Greater London; Labour. *Leisure interests:* gardening, walking. *Address:* Room 133, The County Hall, London, S.E.1. (Office); Twitten Cottage, Mare Hill, Pulborough, West Sussex, England (Home). *Telephone:* 01-633 6153 (Office); 0792 2202 (Home).

GOOKIN, R(alph) Burt, B.SC., M.B.A.; American business executive; b. 23 June 1914, Chariton, Iowa; s. of Albert Burton and Maude Mary McFarland Gookin; m. Mary Louise Carroll 1948; one s. one d.; ed. Northwestern Univ. and Harvard Business School; with Firestone Tire and Rubber Co. 1935-40, Forest Lawn Co. 1940-41, Los Angeles Shipbuilding and Drydock Co. 1942-43, Consolidated Steel Co. 1944-45, Exec. Accountant H. J. Heinz Co. 1945, Controller 1951, Dir. and Vice-Pres. Finance 1959, Exec. Vice-Pres. 1964, Pres. and Chief Exec. Officer 1966, Vice-Chair. and Chief Exec. Officer 1973-; Chair. Board of Govs., Uniform Product Code Council, mem. Board of Dirs. Bank America Corpn., Westinghouse Electric Corpn., Allegheny Health, Educ. & Research Corpn., Pittsburgh br. of Fed. Reserve Bank of Cleveland, Grocery Mfrs. of America, Inc., Regional Ind. Devt. Corpn. of S.W. Pa., etc.; mem. Board of Visitors, Graduate School of Business, Univ. of Pittsburgh; mem. Business Advisory Council, Graduate School of Industrial Admin., Carnegie-Mellon Univ.; fmr. Pres. of Financial Exec. Research Foundation and Pittsburgh Chapter of Financial Execs. Inst.; Presidential Task Force on Int. Devt. *Leisure interest:* golf. *Address:* H. J. Heinz Company, P.O. Box 57, Pittsburgh, Pa. 15230; Park Mansions, 5023 Frew Avenue, Pittsburgh, Pa. 15213, U.S.A. *Telephone:* 412-237-5434 (Office); 412-621-5720 (Home).

GOONERATNE, Tilak Eranga, B.A.; Ceylonese civil servant and lawyer; b. 27 March 1919; s. of Thomas Edwin Gooneratne and Dona Sophia Athulathmudali; m. Pamela Jean Rodrigo 1947; two d.; ed. St. John's Coll., Panadura, Ceylon, Ceylon Univ., and Ceylon Law Coll.; joined Ceylon Civil Service 1943; Asst. Sec. Ministry of External Affairs 1947-51; Controller of Immigration and Emigration 1949-51; Govt. Agent, Trincomalee 1951-54, Matra 1954-56; Registrar Gen. Marriages, Births and Deaths 1956-58; Dir.-Gen. of Broadcasting and Dir. of Information, Ceylon 1958-60; Commr. Co-operative Devt. 1960-63; Acting Perm. Sec. Ministry of Commerce and Trade 1963; Dir. of Econ. Affairs 1963; Deputy Sec. to Treasury 1963-65; Pres. Colombo Plan Council for Tech. Co-operation in S. and S.E. Asia 1964-65; Del. to UN Gen. Ass. 1964-65; Deputy Sec.-Gen. Commonwealth Secr. 1965-70; High Commr. to U.K. 1970-77, Amb. to European Communities 1974-78, also Amb. to Belgium, Netherlands, Luxembourg 1975-78. *Publications:* An Historical Outline of the Development of the Marriage and Divorce Laws of Ceylon, An Historical Outline of the Development of the Marriage and Divorce Laws Applicable to Muslims in Ceylon, Fifty Years of Co-operative Development in Ceylon. *Leisure interests:* tennis, table tennis, travel. *Address:* c/o Ministry of Foreign Affairs, Colombo, Sri Lanka.

GOORMAGHTIGH, John Victor, D. EN DROIT; Belgian lawyer and public servant; b. 15 March 1919, Ghyverinchove; s. of S. Norbert Goormaghtigh and Mable Lawrence; m. Eliane Weber 1945; two s. one d.; ed. Brussels Univ.; admitted to the Bar 1942; Advocate, Court of Appeal 1945; Dir. Belgian Inst. of Int. Affairs 1947-52, then mem. Board and Hon. Sec.; Joint Sec. Int. Academic

Union 1949; Consultant to UNESCO 1950; Sec. Preparatory Cttee. Int. Political Science Assn. 1949, Sec.-Gen. 1955-60; Dir. European Centre, Carnegie Endowment for Int. Peace 1950-; Prof. of Political Science, Univ. of Geneva 1961-62; Chair. Board Int. School of Geneva 1961-66; Chair. Int. Baccalaureate Office 1965-; Dir. Centre for Research on Int. Insts. 1974-79; Sec.-Gen. European Science Foundation, Strasbourg (1980-); Prof. Grad. Inst. of Int. Studies, Geneva 1975-76; Editor Chronique de Politique Etrangère 1948-52; Chevalier Order of the Crown, Switzerland, Croix de guerre (Belgium and France), Médaille de la Résistance, Chevalier Ordre de la Valeur du Cameroun. *Leisure interests:* painting, gardening. *Address:* 11A avenue de la Paix, 1211 Geneva 20, Switzerland; (from Jan. 1980) 1 Quai Lezay Marnésia, Strasbourg (Offices); Château de Scharrachbergheim, F-67310 Scharrachbergheim (Home). *Telephone:* 34-23-50, 35-30-63 (Offices); 50-36-07 (Home).

GOOSSENS, Léon Jean, C.B.E., F.R.C.M.; British oboist; b. 12 June 1897, Liverpool; s. of Eugène and Annie Goossens; m. Leslie Burrowes 1923; two d.; ed. Christian Brothers Catholic Inst., Liverpool, Liverpool Coll. of Music and Royal Coll. of Music, London; Principal Oboist Queen's Hall Orchestra 1912-14; enlisted in Middx. Hussars 1915; Royal Fusiliers 1916-18; 2nd Lieut., Sherwood Foresters 1918, wounded; Principal Oboist Queen's Hall until 1924, and Royal Philharmonic Orchestra until 1938; toured internationally as soloist 1923-; Prof. Royal Coll. of Music and Royal Acad. of Music 1923-39; numerous lectures and recitals; encouraged new school of oboe playing with oboe as solo instrument; Hon. R.A.M.; Cobbett Medal for Chamber Music 1954. *Leisure interests:* open air, riding, sailing. *Address:* Park Cottage, 7A Ravenscourt Square, London, W6 OTW, England.

GOPAL-AYENGAR, Anekal Ramaswamiengar, PH.D., F.A.SC., F.N.I.; Indian biologist; b. 1 Jan. 1909; ed. Univs. of Mysore and Toronto; Lecturer in Botany, Mysore Univ. 1933-38; Vincent Massey Fellow, Univ. of Toronto 1938-39; Senior Instructor, Univ. of Toronto 1941-45, Kettering Research Fellow, Barnard Skin and Cancer Hospital and Research Assoc., Washington Univ., St. Louis, Mo. 1945-47; Chief Research Cytologist, Tata Memorial Hospital, Bombay 1947-51; Head, A.E.C. Unit on Cell Biology 1948-51; Senior Int. Research Fellow, Lady Tata Trust and Research Assoc., Chester Beatty Research Inst., London and Inst. for Cell Research, Karolinska Inst., Stockholm 1951-53; Expert, Radiation Cttee. of WHO 1958-73; Chief Scientific Officer and Head, Biological and Medical Divs., Atomic Energy Establishment, Trombay (AEET) 1960-62; Dir. Biology Group (AEET) 1962-67; mem. Indian Nat. Cttee. for Co-operation with UNESCO (Natural Sciences) 1961-71; Chair. Nat. Cttee. for Biophysics 1962-; Indian Rep. on UN Scientific Cttee. on Effects of Atomic Radiation (UNSCEAR) 1962-, Chair. 1966-67; Pres. Indian Soc. of Genetics and Plant Breeding 1963-64; mem. Int. Assn. for Radiation Research (IARR) 1963-66; Rep. for S.E. Asia on Genetics Section of Int. Union of Biological Sciences (IUBS) and Int. Cell Research Org. (ICRO) 1963-66; mem. Exec. Cttee. and Council ICRO 1963-71; Pres. Comm. on Radiation Biophysics of Int. Union for Pure and Applied Physics (IUPAB) 1965-69; IUPAB's rep. on SCIBP 1966-72; mem. Indian Nat. Cttee. for Biological Sciences 1965-; Dir. Bio-Medical Group Atomic Energy Comm. (AEC) 1968-71, Emer. Dir. and Bio-Medical Adviser 1971-; mem. and Sec. Int. Comm. on Radiation Biophysics of IUPAB 1969-72; Pres. Indian Assn. for Radiation Protection (IARP) 1969-72; mem. Int. Cttee. on Experimental Studies on Human Cancer, Comm. for Experimental Oncology; Fellow Indian Acad. of Sciences; associated with New York Acad. of Sciences for Cancer Research; Hon. Prof. of Cell Biology Madurai Univ. 1969–; Hon. D.Sc (Mysore), Hon. Sc.D. (Hanover); J. H. Bahbha Prize 1948; Padma Shri 1967. *Address:* 8B Atomic Energy Officers Apartments, Little Gibbs Road, Malabar Hill, Bombay 400006, India. *Telephone:* 359346.

GOPALLAWA, William; Ceylonese politician; b. 17 Sept. 1897, Dullewa, Matale; s. of Tikiri Banda Gopallawa and Dullewa Gopallawa Kumarihamy; m. Seila Rambukwella 1928 (died 1977); two s. two d.; ed. Dharmarajah Coll., St. Anthony's Coll., Kandy and Law Coll., Colombo; enrolled as Attorney-at-Law of Supreme Court 1924; mem. Matale Urban Council 1927-39, Chair. 1928-34; Municipal Commr. Kandy 1939-52, Colombo 1952-57; Amb. to People's Repub. of China 1958-61, to U.S.A., Cuba and Mexico 1961-62; Gov.-Gen. of Ceylon 1962-72; Pres. Repub. of Sri Lanka (fmrly. Ceylon) 1972-78; Chancellor, Univ. of Sri Lanka 1962-78; Hon. LL.D. (Univs. of Sri Lanka and Vidyalankara); Hon. D.Litt. (Vidyodaya). *Leisure interests:* cricket, tennis, golf. *Address:* c/o President's House, Colombo, Sri Lanka.

GOPPEL, Alfons; German lawyer and politician; b. 1 Oct. 1905, Regensburg; s. of Ludwig and Barbara Coppel; m. Gertrud Wittenbrink 1935; five s.; ed. Humanistisches Gymnasium, Regensburg, and Ludwig Maximilians Univ., Munich; State Attorney 1934, Judge 1938; Vice-Mayor of Aschaffenburg 1952; State Sec. of Justice (Bavaria) 1957; Minister of Interior (Bavaria) 1958-62; Minister-Pres. of Bavaria 1962-78; mem. Bavarian Land Diet 1954-; numerous decorations. *Address:* 8033 Krailling, Sommerweg 2, Federal Republic of Germany (Home). *Telephone:* 21651 (Office).

GORAY, Narayan Ganesh, B.A., LL.B.; Indian politician; b. 15 June 1907, Hindala, Maharashtra; s. of Ganesh Govind Gore and Saraswati; m. Sumati Kirtane 1935; one d.; ed. Fergusson Coll., Poona; Congress Socialist Party 1930, mem. Nat. Exec. 1934, Mayor of Poona; imprisoned for political activities before independence; Joint Sec. Socialist Party 1948; Gen. Sec. Praja Socialist Party 1949-54, 1954-65, Chair. 1965-71; led first wave of Satyagrahis against Portuguese Govt. in Goa; mem. Lok Sabha 1957-62, Rajya Sabha 1970; High Commr. to U.K. 1977-. *Publications:* History of the United States of America, etc. *Leisure interests:* music, painting, writing. *Address:* Indian High Commission, India House, Aldwych, London, W.C.2, England; 1813 Sadashiv Peth, Poona 30, Maharashtra State, India. *Telephone:* 01-836 8484; 56614.

GORCE, Pierre; French diplomatist; b. 17 June 1917, Limoges; m. Ruth Correll 1945, (divorced 1977); m. 2nd. Leila Abbosh; ed. Ecole Nationale de la France d'Outre-Mer; High Comm. Cambodia 1955-56, Amb. 1956-61; Directeur des Etudes, l'Institut des Hautes Etudes d'Outre-Mer 1961-63; Amb. to Albania 1963-67, to Iraq 1967-70, to Indonesia 1970-76, to Denmark 1976-; Officier de la Légion d'honneur; Commdr. Ordre national du Mérite; Croix de guerre. *Address:* French Embassy, 4 Kongens Nytore, 1050 Copenhagen, Denmark; 35 rue du Général Delestraint, 75016 Paris, France (Home). *Telephone:* 155122 (Embassy); 651-44-01 (Home).

GORDEY, Michel; French journalist and writer; b. 17 Feb. 1913, Berlin, Germany; s. of Samuel Rapaport and Eugenia Gourvitch; m. Beverly Bronstein 1950; one s. one d.; ed. Lycée Janson de Sailly, Law Faculty of Sorbonne and Ecole des Sciences Politiques, Paris; Lawyer, Paris 1933-37; French Army 1937-40; U.S. Office of War Information, French Editor, Voice of America 1941-45, Chief Editor 1944-45; U.S. Corresp. Paris-Presse 1945; U.S. and UN Corresp., Agence France-Presse, New York and Washington 1945-46; Roving Foreign and Diplomatic Corresp. France-Soir, Paris 1945-56, Chief Foreign Corresp. 1956-73; assignment to China 1971-72; Roving Foreign and Diplomatic Corresp., L'Express, Paris 1973-77; Special Corresp., Europe, Newsday, New York 1977-; articles have been published in magazines and newspapers in U.K., U.S.A., Federal Repub. of Germany, Japan, Italy and Switzerland; TV and radio broadcasts in U.K., U.S.A., Canada and Federal Repub. of Germany; several journalistic awards. *Publication:* Visa pour Moscou 1951. *Leisure interests:* reading, high mountains, walking. *Address:* 16 rue de Savoie, 75006 Paris, France. *Telephone:* 033-7982.

GORDIMER, Nadine, F.R.S.L.; South African writer; b. 20 Nov. 1923; d. of Isidore Gordimer and Nan Myers; m. Reinhold Cassirer 1954; one s. one d.; ed. convent school; Hon. mem. American Acad. of Arts 1978; recipient of W. H. Smith Literary Award 1961 and Thomas Pringle Award (English Acad. of S.A.) 1969, James Tait Black Memorial Prize 1971, Booker Prize (co-winner) 1974, Grand Aigle d'Or Prize (France) 1975, CNA Literary Award (S. Africa) 1975. *Publications:* The Soft Voice of the Serpent (stories), The Lying Days (novel) 1953, Six Feet of the Country (stories) 1956, A World of Strangers (novel) 1958, Friday's Footprint (stories) 1960, Occasion for Loving (novel) 1963, Not For Publication (stories) 1965, The Late Bourgeois World (novel) 1966, A Guest of Honour (novel) 1970, Livingstone's Companions (stories) 1972, The Black Interpreters (literary criticism) 1973, The Conservationist (novel) 1974, Selected Stories 1975, Some Monday for Sure (stories) 1976, Burger's Daughter 1978, co-editor South African Writing Today 1967. *Address:* 7 Frere Road, Parktown, Johannesburg, South Africa.

GORDIS, Robert, PH.D.; American rabbi and biblical scholar; b. 6 Feb. 1908, Brooklyn, N.Y.; m. Fannie Jacobson 1928; three s.; ed. Coll. of City of New York, The Dropsie Coll., Philadelphia and Jewish Theological Seminary; Mayer Sulzberger Fellow in Biblical Philology, Dropsie Coll. 1926-29; Instructor in Bible and Jewish History, Hebrew Teachers' Training School for Girls 1928-30; Instructor, Teachers' Inst. of Jewish Theological Seminary 1930-31; Rabbi, Temple Beth-El, Rockaway Park, L.I. 1931-68, Rabbi Emer. 1968-; Seminary Prof. of Bible, Jewish Theological Seminary 1937-; Pres. Rabbinical Assembly of America 1944-46; Vice-Pres. Synagogue Council of America 1946-48, Pres. 1948-49; Adjunct Prof. in Religion, Columbia Univ. 1949-57; Lecturer in Old Testament, Union Theological Seminary 1953-54; Prof. of Bible, Jewish Theological Seminary of America 1961-; Consultant to Center for

Study of Democratic Insts. of Fund for Repub. 1960-; Prof. of Religion, Temple Univ. 1967-74; Prof. of Philosophies of Religion, Jewish Theological Seminary 1974-; Assoc. Editor Dept. of the Bible and contrib. to Universal Jewish Enclyclopaedia; Chair. Board of Editors Judaism, Editor 1970-; Hon. D.D. (Jewish Theological Seminary) 1950. *Publications:* Biblical Text in the Making 1937, The Jew Faces a New World 1941, The Wisdom of Ecclesiastes 1945, Conservative Judaism—An American Philosophy 1945, Koheleth—The Man and His World 1951, Song of Songs 1954, Judaism and the Modern Age 1955, A Faith for Moderns 1960, The Root and the Branch—Judaism and the Free Society 1962, The Book of God and Man: A Study of Job 1965, Judaism in a Christian World 1966, Sex and the Family in Jewish Tradition, Leave a Little to God 1967, Poets, Prophets and Sages—Essays in Biblical Interpretation 1971, Faith and Reason, Essays in Judaism 1973, The Book of Esther 1974, Song of Songs—Lamentations 1974, The Word and the Book (Studies in Biblical Language and Literature) 1976, Love and Sex—A Modern Jewish Perspective 1978, The Book of Job: Commentary, New Translation and Special Studies 1978, Understanding Conservative Judaism 1978. *Address:* 15 East 84th Street, New York City, N.Y. 10028 (Office); 150 West End Avenue (Apt. 24M), New York, N.Y. 10023, U.S.A. (Home). *Telephone:* 212-RI9-8000 (Office); 212-877-1484 (Home).

GORDON, Donald McDonald, C.M.G.; British diplomatist; b. 14 Aug. 1921, Aberdeen; m. Molly Denise Norman 1948; three s.; ed. Robert Gordon's Coll., Aberdeen and Aberdeen Univ.; Royal Artillery (despatches) 1941-47; entered Foreign Service 1947; served Lima, Vienna, Rangoon, S. Africa 1947-65; Imperial Defence Coll. 1966; Counsellor and Consul-Gen., Saigon 1967-69; Head of S.E. Asia Dept., FCO 1969-72; Deputy High Commr. in Malaysia 1972-75; High Commr. in Cyprus 1975-78. *Address:* c/o Foreign and Commonwealth Office, King Charles Street, London, S.W.1, England.

GORDON, Hon. John Bowie (Peter), P.C.; New Zealand politician; b. 1921, Stratford; s. of Dr. William P. Gordon, C.B.E. and Dr. Doris C. Gordon, M.B.E.; m. Dorothy Morton 1943; two s. one d.; ed. St. Andrew's Coll., Christchurch, Lincoln Coll.; served as pilot in R.N.Z.A.F. 1941-44, mentioned in despatches; Pres. West Otago Branch Federated Farmers; mem. first Nat. Hydatids Council; Chair. Dir. of Heriot Transport 1951-54; Dir. Farmers' Mutual Insurance 1951-60, N.Z. Board Shaw Savill 1956-60; toured Britain, Scandinavia and U.S. under Nuffield Scholarship 1954; visited U.S. under U.S. State Dept. Foreign Leadership Award 1964; M.P. for Clutha 1960-; Minister of Transport and Railways 1966-72; Minister of Marine and Fisheries 1972, of Labour and of State Services 1975-78; National Party. *Leisure interests:* golf, cooking, gardening. *Address:* c/o Parliament House, Wellington, New Zealand.

GORDON, Lincoln, D.PHIL.; American political economist and diplomatist; b. 10 Sept. 1913, New York; s. of Bernard and Dorothy Gordon; m. Allison Wright 1937; two s. two d.; ed. Harvard Univ. and Balliol Coll., Oxford; Instructor in Govt., Harvard Univ. 1936-40; Prof. of Govt. and Admin. Harvard Business School and Graduate School of Public Admin. 1946-50; Govt. service with Nat. Resources Planning Board 1939-40; Nat. Defense Advisory Cttee. 1940-41; W.P.B. 1942-45; Deputy Programme Vice-Chair., W.P.B. 1944, Programme Vice-Chair. 1945; Consultant, Dept. of State in development of European Recovery Programme 1947-48; Dir. Programme Div. ECA in Office of Special Rep. in Europe 1949-50; Economic Adviser to Special Asst. to the Pres. (W. A. Harriman) 1950-51; Asst. Dir. for Programme, Office of Dir. for Mutual Security 1951-52; Minister for Econ. Affairs and Chief of MSA Mission to U.K. 1952-55; William Ziegler Prof. of Int. Econ. Relations, Harvard Univ. Graduate School of Business Admin. 1955-61; Amb. to Brazil 1961-66; Asst. Sec. of State for Inter-American Affairs 1966-67; Pres. The Johns Hopkins Univ. 1967-71; Visiting Prof. of Political Econs., Johns Hopkins School of Advanced Int. Studies 1971-72; Fellow Woodrow Wilson Int. Center for Scholars, Washington 1972-75; Senior Fellow Resources for the Future, Washington 1975-. *Publications:* The Public Corporation in Great Britain 1938, Government and the American Economy (with M. Fainsod) 1941; Editor International Stability and Progress: United States Interests and Instruments 1957; United States Manufacturing Investment in Brazil (with E. L. Grommers) 1961, O Progresso Pela Aliança 1962, A New Deal for Latin America 1963. *Leisure interests:* music ('cellist), woodworking. *Address:* Resources for the Future, 1755 Massachusetts Avenue, Washington D.C., 20036 (Office); 3069 University Terrace, N.W. Washington D.C., 20016, U.S.A. (Home). *Telephone:* 202-462-4400 (Office); 202-244-1315 (Home).

GORDON, Richard F., Jr.; American football manager and former astronaut; b. 5 Oct. 1929, Seattle, Wash.; m. Barbara Field; four s. two d.; ed. Univ. of Washington; entered U.S. Navy 1951; received naval aviator wings 1953; attended All-Weather Flight School; later at Naval Air Station, Jacksonville, Fla.; attended Navy's Test Pilot School, Patuxent River 1957; first project test pilot for F4H Phantom II; won Bendix Trophy Race 1961; selected by NASA ■■ astronaut Oct. 1963; pilot of backup crew for Gemini VIII flight; pilot of Gemini XI mission Sept. 1966; Command module pilot, Apollo XII Nov. 1969; retd. USN/NASA 1972; Exec. Vice-Pres. New Orleans Saints professional football team 1972-; NASA Exceptional Service Medal, NASA Distinguished Service Medal, USN Distinguished Service Medal. *Address:* New Orleans Saints Professional Football Team, New Orleans, La. 70130, U.S.A.

GORDON, Hon. Walter Lockhart, P.C., C.C., F.C.A., LL.D.; Canadian politician (retd.); b. 27 Jan 1906; ed. Upper Canada Coll., Toronto, and Royal Military Coll., Kingston; Partner, Clarkson, Gordon & Co., Toronto, Chartered Accountants 1935-63; Partner, Woods, Gordon & Co., Man. Consultants, Toronto 1940-63; Pres. Canadian Corporate Man. Co. Ltd. 1944-63, Chair. 1968-; Dir. Toronto Star Ltd.; Special Asst. to Deputy Minister of Finance, Canada 1940-42; M.P. 1962-68, Minister of Finance and Receiver Gen. of Canada 1963-65; Chair. Royal Comm. on Canada's Econ. Prospects 1955; Chair. Nat. Campaign Cttee. of the Liberal Party 1962, 1963, 1965; mem. Board of Govs., Univ. of Toronto 1945-63; Chancellor, York Univ., Toronto 1973-77; Liberal. *Publications:* Troubled Canada—The Need for New Domestic Policies 1961, A Choice for Canada—Independence or Colonial Status 1966, Storm Signals—New Economic Policies for Canada 1975, A Political Memoir 1977, What is Happening to Canada 1978. *Address:* P.O. Box 131, Commerce Court Postal Station, Toronto, Ontario M5L 1E6 (Office); 22 Chestnut Park Road, Toronto M4W 1W6 Ontario, Canada (Home). *Telephone:* (416) 868-0596 (Office); (416) 921-2770 (Home).

GORDON, William Edwin, PH.D.; American radio physicist; b. 8 Jan. 1918, Patterson, N.J.; s. of William and Mary Scott Gordon; m. Elva Freile 1941; one s. one d.; ed. Montclair State Coll., N.J. and New York and Cornell Univs.; Assoc. Prof. Cornell Univ. 1953-59, Prof. 1959-65, Walter R. Read Prof. of Eng. 1965-66; Dir. Arecibo Ionospheric Observatory, Puerto Rico 1960-66 (conceived and directed construction of world's largest antenna reflector); Prof. of Electrical Eng. and Space Physics and Astronomy, Rice Univ. 1966-, Dean of Eng. and Science 1966-75, Vice-Pres. 1969-72, Dean, School of Natural Sciences 1975-; Chair. Board of Trustees, Upper Atmosphere Research Corpn. 1971-72, 1973-78; Vice-Pres. Int. Scientific Radio Union 1975-78; Senior Vice-Pres. 1978-; mem. Nat. Acad. of Sciences Cttee. on Solar Terrestrial Research 1967-74, NSF Panel on Atmospheric Sciences 1967-74, NAS Panel on Jicamarca Radio Observatory 1969-74, NSF Research Advisory Cttee. 1973-76; Board of Trustees and Exec. Cttee. Univ. Corpn. for Atmospheric Research 1975-, Vice-Pres. Board of Trustees 1977-78, Chair. 1978-; Board of Trustees, Cornell Univ. 1976-; mem. Arrecibo Advisory Board 1977-; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng., American Meteorological Soc., A.A.A.S.; Fellow, American Geophysical Union, Inst. of Electrical and Electronic Engineers, Guggenheim Fellow 1972-73; Balth Van der Pol Gold Medal for distinguished research in radio sciences 1963-66, 50th Anniversary Medal of American Meteorological Soc. 1970. *Publications:* numerous articles in learned journals. *Leisure interests:* sailing, swimming, music. *Address:* Rice University, P.O. Box 1892, Houston, Tex. 77001, U.S.A. *Telephone:* 713-527-4937.

GORDON-LAZAREFF, Hélene; French journalist; b. 21 Sept. 1909, Rostov-on-Don, Russia; Dir. Elle (weekly) 1945-, Editor-in-Chief 1945-73; mem. Television Programme Cttee. of O.R.T.F. 1965. *Publication:* L'U.R.S.S. à l'heure Malenkov (with P. Lazareff). *Address:* 100 rue Réaumur, 75002 Paris (Office); Château de la Grille Royale, 78430 Louveciennes (Yvelines), France (Home).

GORDON-SMITH, Ralph; British business executive; b. 22 May 1905; ed. Bradfield Coll.; Smiths Industries Ltd. 1927-, Dir. 1933, Group Man. Dir. 1947-, Chair. 1951-73, Chief Exec. 1967-, non-exec. Chair. 1968-, Pres. 1973-; Dir. EMI Ltd. 1951-75. *Address:* Smiths Industries Ltd., Cricklewood Works, London, N.W.2 (Office); Brook House, Quay Meadow, Old Bosham, West Sussex, England (Home). *Telephone:* 01-452 3333 (Office).

GORDON-WALKER, Baron (Life Peer), cr. 1974, of Leyton in Greater London; **Patrick Chrestien Gordon Walker,** P.C., C.H., M.A., B.LITT.; British politician; b. 7 April 1907, Worthing, Sussex; s. of Judge A. L. Gordon Walker and Dora M. Chrestien; m. Audrey M. Rudolf 1934; two s. three d.; ed. Wellington Coll., and Christ Church, Oxford; Student and History Tutor, Christ Church 1931-49; BBC European Service 1940-44; Chief Editor Radio Luxembourg 1944; Asst. German Service Dir., BBC 1945; M.P. (Labour) for Smethwick 1945-64, for Leyton 1966-74; mem. European Parl. 1975-76; Parl. Private Sec. to Herbert Morrison 1946; Parl. Under-

Sec. of State for Commonwealth Relations 1950-51; Foreign Sec. Oct. 1964-Jan. 1965; Minister without Portfolio Jan.-Aug. 1967; Sec. of State for Educ. and Science 1967-68; Chair. British Film Inst. 1946; Adviser to Initial Teaching Alphabet Foundation 1965-67; Chair. Book Devt. Council 1965-67. *Publications:* History of Europe in the Sixteenth and Seventeenth Centuries 1935, Outline of Man's History 1939, The Lid Lifts 1945, Re-statement of Liberty 1951, The Commonwealth 1962, The Cabinet 1970. *Leisure interests:* reading, writing, painting. *Address:* 105 Frobisher House, Dolphin Square, London, SW1V 3LL, England.

GORDY, Walter, PH.D.; American professor of physics; b. 20 April 1909, Lawrence, Miss.; s. of Walter Kalin Gordy and Gertrude (Jones) Gordy; m. Vida Brown Miller 1935; one s. one d.; ed. Mississippi Coll., Clinton, and Univ. of N. Carolina, Chapel Hill; Assoc. Prof. of Mathematics and Physics, Mary Hardin-Baylor Coll., Belton, Tex. 1935-41; Nat. Research Fellow, Calif. Inst. of Tech., Pasadena 1941-42; mem. Staff, Radiation Lab., M.I.T. 1942-46; Assoc. Prof. of Physics, Duke Univ., Durham, N.C. 1946-48, Prof. 1948-, James B. Duke Prof. 1958-; Visiting Prof. of Physics, Univ. of Tex. 1958; mem. Nat. Research Council 1954-57, 1968-74; Fellow, American Physical Soc., Chair. S.E. Section 1953-54, mem. Council 1967-71, 1973-77; Fellow A.A.A.S. (Council 1955); mem. Radiation Research Soc. (Council 1961-64); mem. Nat. Acad. of Sciences; Assoc. Editor Journal of Chemical Physics 1955-58, Spectrochimica Acta 1957-60; mem. Editorial Board Radiation Research 1969-72; Science Research Award, Oak Ridge Inst. of Nuclear Studies 1948, Jesse W. Beams Medal, American Physical Soc. (Southeastern Section) 1974, Distinguished Alumnus Award, Univ. of N.C., Chapel Hill 1976; Dr. h.c. (Lille) 1955, Hon. LL.D. (Miss. Coll.) 1959. *Publications:* Microwave Spectroscopy (with W. V. Smith and R. F. Trambarulo) 1953, Chemical Applications of Spectroscopy (with others) 1956, Microwave Molecular Spectra (with R. L. Cook) 1970, Theory and Applications of Electron Spin Resonance 1979; research papers on infra-red spectroscopy, microwave spectroscopy, magnetic resonance, millimetre and submillimetre wave radiation, nuclear moments, molecular structures, chemical physics. *Address:* Department of Physics, Duke University, Durham, N.C. 27706 (Office); 2521 Perkins Road, Durham, N.C. 27706, U.S.A. (Home). *Telephone:* 919-684-8242 (Office); 919-489-4206 (Home).

GORE-BOOTH, Baron (Life Peer), cr. 1969, of Maltby in the West Riding of the County of Yorkshire; **Paul Henry Gore-Booth,** G.C.M.G., K.C.V.O.; British diplomatist; b. 3 Feb. 1909, Doncaster; s. of Mordaunt Gore-Booth and Evelyn Mary Scholfield; m. Patricia Mary Ellerton 1940; two s. two d.; ed. Eton and Balliol Coll., Oxford; Third Sec. Foreign Office 1933, Vienna 1936, Tokyo 1937; Second Sec. Tokyo 1938, Shanghai Oct.-Nov. 1941, Washington Dec. 1942, acting First Sec. Nov. 1943; mem. U.K. Del. to Int. Food Conf. Hot Springs 1943, UNRRA Conf. Atlantic City 1943, Civil Aviation Conf., Chicago 1944, UN Preparatory Confs., Dumbarton Oaks 1944, San Francisco 1945; transferred to Foreign Office 1945; Sec. to U.K. Del. to first meeting of UN Gen. Assembly, London Jan. 1946; promoted to Foreign Service Officer, Grade 6, as Head of Refugee and UN Economic and Social Depts. July 1947; Head of European Recovery Dept., Foreign Office 1948; Dir.-Gen. British Information Services, Washington 1949-53; Amb. to Burma 1953-56; Deputy Under-Sec. of State, Foreign Office 1956-60; High Commr. in India 1960-65; Perm. Under-Sec. of State Foreign Office (later FCO) 1965-69; Head of Diplomatic Service 1968-69; Dir. Grindlays Bank Group (fmrly. Nat. and Grindlays Bank), U.K. Provident Inst.; Chair. Save the Children Fund 1970-76, Windsor Music Festival 1971-73; Chair. Governing Body, S.O.A.S. London Univ. 1975-. *Publication:* With Great Truth and Respect (memoirs) 1974, Editor Satow's Guide to Diplomatic Practice (5th edn.) 1979. *Leisure interests:* Sherlock Holmes, music, theatre, camping, languages. *Address:* 70 Ashley Gardens, Westminster, London, S.W.1, England.

GÓRECKI, Henryk Mikołaj; Polish composer; b. 6 Dec. 1933, Czernica, near Rybnik; studied composition in Warsaw State Higher School of Music under B. Szabelski; Docent, Faculty of Composition, State Higher School of Music, Katowice, Rector 1975-77, Extraordinary Prof. 1977-; mem. Council of Higher Artistic Educ., Ministry of Culture and Arts; First Prize, Young Composers' Competition, Warsaw, for Monologhi 1960, Paris Youth Biennale, for 1st Symphony 1961; Prize, UNESCO Int. Tribune for Composers for Refrain 1967, for Ad Matrem 1973; First Prize, Composers' Competition, Szczecin, for Kantata 1968; Prize of Union of Polish Composers 1970, of Cttee. for Polish Radio and TV 1974, of Minister of Culture and Arts 1965, 1969, 1973; State Prize 1st class for Ad Matrem and Nicolaus Copernicus Symphony 1976-. *Address:* Ul. Feliksa Kona 4, m.1, 40-133 Katowice, Poland.

GOREN, Maj.-Gen. Shlomo; Israeli rabbi; b. 1917, Poland; m.; one s. two d.; ed. Hebrew Univ.; settled in Palestine 1925; Co-founder Kfar Hassidim; Chief Chaplain, Israel Defence Forces; Chief Rabbi of Tel-Aviv (elected June 1968); Ashkenazi Chief Rabbi of Israel Oct. 1972-; Rabbi Kook Prize. *Publications:* Nezer Hakodesh (on Maimonides), Shaarei Tahara, Talmud Yerushalmi Meforash, Torath Ha Moadim, etc., as well as works on religion in military life, prayers for soldiers etc. *Address:* Chief Rabbinate, Hechal Shlomo, Jerusalem, Israel.

GORET, Pierre; French veterinary researcher; b. 27 Aug. 1907, Rosières en Santerre; s. of Lucien Goret and Henriette Bouffette; m. Yvonne Boulet 1931; one s. two d.; ed. Coll. Providence, Amiens, Ecole de Médecine, Amiens, and Ecole Vétérinaire, Alfort; Prof. Ecole Vétérinaire Lyon 1946-55, Ecole Vétérinaire Alfort 1955-; Asst. Lecturer, Univ. de Paris à la Sorbonne, Inst. Pasteur, Inst. Agronomique, etc.; mem. Acad. de Médecine, Acad. Vétérinaire; Fellow Ecoles Vétérinaires 1945; Foreign Corresp. mem. Royal Soc. of Medicine, London; Expert, WHO Zoonoses Cttee.; Officier Légion d'honneur. *Publications:* on various subjects dealing with comparative pathology and microbiology, especially with reference to virus ailments in animals and zoonoses. *Leisure interests:* philately, reading. *Address:* 31 rue Faidherbe, 94160 Saint-Mandé (Val-de-Marne), France. *Telephone:* 328-26-70.

GOREV, Nikolay Nikolayevich; Soviet pathologist; b. 21 April 1900, Kazan; ed. Irkutsk Univ.; Asst. of Pathological Chair, Irkutsk Univ. 1926-31; Head of Chair, Khabarovsk Med. Inst. 1931-34; Head of Dept. Inst. of Experimental Biology and Pathology 1934-53; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1945-53, mem. 1953-; Head of Chair. Kiev Stomatological Inst. 1945-55; Head of Lab., Kiev Inst. of Physiology 1953-60, Kiev Inst. of Tuberculosis 1955-58; Dir. Inst. of Gerontology and Experimental Pathology 1958-61, Head of Lab. 1961-; Head of Experimental Cardiology Dept. 1969-74, Consultant 1974-; mem. of Board, U.S.S.R. Socs. of Pathophysiologists, Gerontologists, Cardiologists; has participated in congresses and symposia in Norway, Britain, Czechoslovakia, Hungary, etc.; Order of Lenin, Badge of Honour, Merited Scientist of Ukrainian S.S.R. *Publications:* about 130 works and 4 monographs on pathology of cardiovascular system, shock, hypertension, atherosclerosis, myocardial infarction, gerontology. *Address:* Institute of Gerontology, 67 Vyshgorodskaya Street, Kiev, U.S.S.R. *Telephone:* 35-43-14.

GORING, Marius; British actor; b. 23 May 1912, Newport, Isle of Wight; m. Lucie Mannheim; ed. Perse School, Cambridge and Univs. of Frankfurt, Munich and Paris; studied for the stage under Harcourt Williams and Old Vic Dramatic School; first London stage appearance 1927; joined Old Vic and appeared in many leading Shakespearian and other classical roles; has appeared throughout Europe and acted in German and French; founded the company of Shakespeare Comedians 1957, subsequently undertook Arts Council tour of Paris, Netherlands, Finland and India with them; now appears frequently in the London theatres, at the Royal Shakespeare Theatre, Stratford-upon-Avon and other theatres in U.K.; Vice-Pres. British Actors' Equity Assen. 1975-; recent stage appearances include: The Apple Cart (Cambridge), The Devil's Disciple (Yvonne Arnaud Theatre), The Bells (Derby and London), Sleuth (London and Liverpool), The Wisest Fool (Yvonne Arnaud Theatre), Habeas Corpus (Liverpool Playhouse) 1975, Jubilee Gaities (Windsor and on tour); television: The Expert, Year of the Crow, The Gamekeeper, Fall of Eagles, Saul Bellow 1975, The Holocaust 1977, Wilde Alliance 1977, Edward VIII 1978, William and Mary 1978. *Films include:* The Red Shoes, A Matter of Life and Death, So Little Time, Up from the Beach, Subterfuges 1968, First Love 1969, The Girl in Blue Velvet 1978, Meetings with Remarkable Men 1978. *Address:* c/o Film Rights Ltd., 113/117 Wardour Street, London, W1V 4EH, England. *Telephone:* 01-437 7151.

GORIZONTOV, Pyotr Dmitriyevich; Soviet pathophysiologist; b. 3 Sept. 1902, Petropavlovsk; m. 1928; one d.; ed. Omsk Medical Inst.; Junior Research Assoc., Omsk Medical Inst. 1927-30; Senior Research Assoc., Lenin Acad. of Agricultural Sciences 1930-32; Head of Lab., Deputy Dir. Inst. of Public Health, Magnitogorsk 1932-34; Junior Research Assoc., Asst. Prof., Head of Chair, First Moscow Medical Inst. 1934-52; Head of Chair, Cen. Inst. of Postgraduate Medical Training 1953-60; Head of Lab., Deputy Dir. 1952-, Dir. Inst. of Biophysics, U.S.S.R. Ministry of Public Health 1962-68; mem. CPSU 1957-; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1952-62, mem. 1962-; mem. of Hon. U.S.S.R. Soc. of Röntgenologists and Radiologists; mem. Board U.S.S.R. Soc. of Pathophysiologists; Order of Lenin (three times), Red Banner of Labour, Badge of Honour, Lenin Prize 1963. *Publications:* about 200 works, including Homeostasis and monographs

Effect of Brain on Cholesterine Metabolism, Pathological Physiology of Acute Radiation Sickness Resulting from External Ionizing Radiation. *Leisure interest:* nature photography. *Address:* Institute of Biophysics, U.S.S.R. Ministry of Public Health, 46 Zhivopisnaya ulitsa, Moscow; Apartment 120, 24 Kutuzovsky prospekt, Moscow, U.S.S.R. *Telephone:* 249-31-18 (Home).

GORKIN, Aleksandr Fyodorovich; Soviet politician and lawyer; b. 5 Sept. 1897, Rameshki, Kalinin; ed. Tver High School; held Party and Soviet Exec. posts 1917-37; mem. CPSU 1916-; mem. Presidium and Sec. to Cen. Exec. Cttee. of the U.S.S.R. 1937; Sec. of Presidium of Supreme Soviet of the U.S.S.R. 1938-53, Deputy Sec. 1953-56, Sec. 1956; Chair. of the Supreme Court of the U.S.S.R. 1957-72; Deputy to the Supreme Soviet of the U.S.S.R. 1937-; mem. Cen. Cttee. CPSU 1939-52; mem. Auditing Comm. CPSU 1952-76; awarded Order of Lenin (three times), Hero of Socialist Labour, Hammer and Sickle Gold Medal. *Address:* Supreme Court of the U.S.S.R., 15 Ulitsa Vorovskogo, Moscow, U.S.S.R.

GORMLEY, Joseph, O.B.E.; British trade unionist; b. 5 July 1917, Ashton-in-Makerfield, Lancs; m. Sarah Ellen Mather 1937; one s. one d.; ed. St. Oswald's Roman Catholic School, Ashton-in-Makerfield; mem. of Nat. Exec. Cttee. of Nat. Union of Mineworkers (NUM) 1958-, Gen. Sec. of N.-W. Area 1961, Pres. of NUM 1971; mem. Nat. Exec. Cttee. of Labour Party 1963-, mem. Org. Cttee.; mem. Bureau, Socialist Int.; mem. Gen. Council of TUC 1973-; mem. Nat. Research Devt. Corpn. 1977-, U.K. Energy Comm.; Pres. Consultative Cttee. of ECSC 1976-; Dir. Vancouver Wharves 1977–; mem. Board British Investment Trust 1978-; J.P., Lancs. until 1963. *Leisure interest:* rugby football. *Address:* National Union of Mineworkers, 222 Euston Road, London, NW1 2BX (Office); 1 Springfield Grove, Sunbury-on-Thames, Middx., England (Home). *Telephone:* 01-387 7631/8 (Office).

GORONWY-ROBERTS, Baron (Life Peer), cr. 1974, of Caernarvon and of Ogwen; **Goronwy Owen Roberts,** P.C.; British politician; b. 20 Sept. 1913, Rhos, Wrexham; s. of Edward and Amelia Roberts; m. Marian Ann Evans 1942; one s. one d.; ed. Ogwen Grammar School, Univ. Coll. of N. Wales, Bangor, and Univ. of London; Infantry, Army Reserve 1941; Youth Educ. Officer, Caerns. Educ. Authority 1941-44; M.P. 1945-74; Ministry of State, Welsh Office 1964-66, Dept. of Educ. and Science 1966-67, Foreign Office 1967-69, Board of Trade 1969-70; Parl. Under-Sec. of State for Foreign and Commonwealth Affairs 1974-75; Minister of State for Foreign and Commonwealth Affairs and Deputy Leader, House of Lords 1975-79; mem. House of Commons Panel of Chairmen 1963-64; Chair. Regional Econ. Cttee. for Wales 1965-; fmr. Chair. Hughes & Son Ltd., Publishers, Wrexham; fmr. Lecturer in Educ., Univ. Coll., Swansea; Leader, U.K. del. UN Human Rights Conf., Teheran 1968, Commonwealth Parl. Conf., Nassau 1968; mem. Court of Govs., Univ. Coll. of Wales, Nat. Museum of Wales; mem. Fabian Soc.; Trustee, Oppenheimer Trust for Ex-Servicemen; Fellow, Royal Soc. of Arts 1967; Freeman Royal Borough of Caernarvon; Hon. Fellow Univ. Coll., Aberystwyth; Labour. *Leisure interests:* walking, music, collecting year books. *Address:* The House of Lords, Westminster, London, S.W.1, England.

GORRESIO, Vittorio, D.IUR.; Italian writer; b. 18 July 1910, Modena; s. of Marco Gorresio and Teresa Silvestro; m. Allessandra E. Bolis 1958; ed. Rome Univ.; Rome corresp. of La Stampa (Turin) 1948-; Liberal. *Publications:* Un Anno di Libertà 1945, I Moribondi di Montecitorio 1947, I Carissimi Nemici 1949, I Bracci Secolari 1951, Risorgimento Scomunicato 1958, L'Italia a Sinistra 1963, La Nuova Missione (Il Papato di Giovanni XXIII) 1968, Roma Ieri e Oggi 1970, Il Sesto Presidente 1972, Il Papa e il Diavolo 1973, Costellazione Cancro 1976, Berlinguer 1976. *Leisure interests:* riding, golf. *Address:* Piazza Navona 106, Rome, Italy. *Telephone:* 6561468.

GORSE, Georges; French diplomatist; b. 15 Feb. 1915; ed. Lycée Louis-le-Grand and Ecole Normale Supérieure (Agrégé de Lettres); Prof. French Lycée at Cairo 1939-40; Prof. Fouad I Univ. 1940; joined Gen. de Gaulle 1940; Deputy-Chief Cabinet of Gen. de Gaulle at Algiers 1944 and at Paris 1945; mem. of the Consultative and Constituent Assemblies; Deputy of la Vendée 1946; Under Sec. of State for Moslem Affairs 1947; Under Sec. of State for French territories overseas 1949; mem. of Ass. of the Union Française 1952-58; Del. UN sessions at San Francisco and New York; Amb. to Tunisia 1957-61; Sec. of State for Foreign Affairs (relations with African States of Expression Française) 1961-62; Minister of Co-operation May-Nov. 1962; Amb. to Algeria 1963-67; Minister of Information 1967-68, of Labour, Employment and Population 1973-74; Mayor of Boulogne-Billancourt 1971-. *Address:* 11 rue Magellan, 75015 Paris, France.

GORSHKOV, Admiral Sergey Georgiyevich; Soviet naval officer; b. 26 Feb. 1910, Kamenets-Podolsk, Ukraine; ed. Frunze Naval Coll., Naval Acad.; Rear-Admiral, Flotilla Commdr., Sea of Azov and the Danube 1941-44; Vice-Admiral, Squadron Commdr. Black Sea Fleet 1944-48, Chief of Staff 1948-51, Commdr. 1951-55; Admiral 1953; First Deputy C.-in-C. U.S.S.R. Navy 1955-56; C.-in-C. U.S.S.R. Navy, Deputy Minister of Defence Jan. 1956-; Admiral of the Fleet 1962-; Admiral of the Fleet of the Soviet Union 1967-mem. CPSU 1942-; Deputy to Supreme Soviet U.S.S.R. 1954-, mem. Planning and Budgetary Comm., Soviet of Nationalities; Candidate mem. Central Cttee., CPSU 1956-61, mem. 1961-; Hero of the Soviet Union; awarded Order of Lenin (five times), October Revolution, 'Gold Star' Medal, Kutuzov (1st class), Ushakov (1st and 2nd class), Red Banner (four times), Red Star, Sword of Honour with a Coat-of-Arms in Gold, and other awards. *Publication:* The Sea Power of the State 1979. *Address:* Ministry of Defence, Naberezhnaya M. Thoreza, 34 Moscow, U.S.S.R.

GORSKI, Janusz, D.ECON.; Polish economist and politician; b. 30 Nov. 1929, Miedzyrzecz Podlaski; ed. legal studies in Warsaw Univ.; Scientific Worker, Main School of Planning and Statistics (SGPiS), Warsaw 1952-72, Asst. Prof. 1962-69, Extraordinary Prof. 1969-74, Ordinary Prof. 1974-; for many years held posts of Chief of Dept. of Political Economy, Deputy Dean of Dept. of Foreign Trade and Dir. of Cen. Methodological Centre of Econ. Studies in Main School of Planning and Statistics; Rector of Univ. of Łódź 1972-75; member of Polish United Workers' Party (PZPR), exec. mem. of Łódź Cttee. of PZPR 1972-75; Deputy Minister of Science, Higher Educ. and Tech. 1975-78, Chief of Ministry Sept.-Oct. 1978, Minister of Science, Higher Educ. and Tech. Oct. 1978-; Pres. of Cen. Board of Popular Knowledge Soc. (TWP) June 1977-; Order of Banner of Labour (2nd class), Chevalier's Cross of Order of Polonia Restituta, Gold Cross of Merit and other decorations. *Publications:* over 100 scientific works and manuals on political economy and history of economic thought. *Address:* Ministerstwo Nauki, Szkolnictwa Wyższego i Techniki, ul. Miodowa 6/8, 00-252 Warsaw, Poland. *Telephone:* 26-70-21.

GORTER, Cornelis Jacobus, PH.D.; Netherlands physicist; b. 14 Aug. 1907, Utrecht; s. of H. J. Gorter and Anne C. van Eck; m. Lilla C. E. C. von Krogh 1938; two s. two d.; ed. Univ. of Leiden; Lecturer, Univ. of Groningen 1936-40; Prof. Univ. of Amsterdam and Dir. of Zeeman Lab. 1940-46; Prof. Univ. of Leiden and Dir. Kamerlingh Onnes Lab. 1946-73; Vice-Pres. Int. Union of Pure and Applied Physics 1946-51 and 1960-66; mem. Royal Netherlands Acad. of Sciences 1946-, Vice-Pres. 1950-60, Pres. 1960-66; Foreign mem. Royal Swedish Acad. of Sciences, Royal Flemish Acad. of Sciences, Finnish Acad. of Sciences, Royal Norwegian Soc. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc.; Foreign Assoc. Nat. Acad. of Sciences (U.S.A.) 1967-Dr. h.c. Grenoble, Sorbonne, Canterbury, Córdoba (Argentina), Trondheim, Halifax (Canada), Nancy; discovered paramagnetic relaxation 1936. *Publications:* Paramagnetisch Eigenschaften von Salzen 1932, Paramagnetic Relaxation 1947, Progress in Low Temperature Physics (six vols., 1955-70). *Leisure interests:* walking, skiing. *Address:* Schouwenhove 221, Leiden, Netherlands. *Telephone:* 071-311685.

GORTON, Rt. Hon. Sir John Grey, P.C., G.C.M.G., C.H., M.A.; Australian fmr. politician; b. 9 Sept. 1911, Melbourne; s. of J. R. Gorton; m. Bettina Brown 1935; two s. one d.; ed. Geelong Grammar School and Brasenose Coll., Oxford; served R.A.A.F. during Second World War, severely wounded; Councillor Kerang Shire 1947-52, and Pres. of Shire; Senator for State of Victoria 1949-68, Govt. Leader in Senate 1967-68; Minister for Navy 1958-63; Minister Assisting Minister for External Affairs 1960-63; Minister-in-Charge of Commonwealth Scientific and Industrial Research Org. (C.S.I.R.O.) 1962-68; Minister for Works and under-Prime Minister, Minister-in-Charge of Commonwealth Activities in Educ. and Research 1963-66; Minister for Interior 1963-64, for Works 1966-67; Minister for Educ. and Science 1966-68; Prime Minister of Australia 1968-71; Minister of Defence and Deputy Leader of Liberal Party March-Aug. 1971; mem. Parl. Liberal Party Exec.; Spokesman on Environment and Conservation, Urban & Regional Devt.; Deputy Chair. of Joint Parl. Cttee. on Prices 1973-74; mem. House of Reps. 1968-75; fmrly. Liberal; Independent May-Nov. 1975. *Leisure interests:* reading, swimming. *Address:* 9th Floor, Qantas House, 197 London Circuit, Canberra City, ACT 260, Australia.

GORYUNOV, Dmitriy Petrovich; Soviet journalist and diplomatist; b. 30 Sept. 1915, Kovrov, Vladimir; s. of Pyotr Gerasimovich Goryunov and Aleksandra Fyodorovna; m. Veronika Gavrilovna Lomovaya 1947; one d.; ed. Higher Party School; worked as lathe-turner and journalist in Kovrov 1930-40; mem. CPSU 1940-Editor youth paper Leninetz and Leader, Ivanovo Region Komsomol Cttee. (youth org.) 1940-42; in charge of propaganda, Cen.

Cttee. HQ of Komsomol, Moscow 1942-46; training at Party School 1946-49; Editor Komsomolskaya Pravda 1949-57; Asst. Editor Pravda 1957-60; Dir.-Gen. Tass Agency 1960-67; Amb. to Kenya 1967-73, to Morocco 1975-; Deputy to Supreme Soviet U.S.S.R. until 1970; mem. Cen. Auditing Comm. and Alt. mem. of CPSU Cen. Cttee. until 1971; Order of Lenin and of Red Banner of Labour. *Leisure interest:* history of Russian literature. *Address:* Embassy of the U.S.S.R., 20 Charia Chellah, Rabat, Morocco.

GOŠNJAK, Ivan, Gen. of the Army; Yugoslav soldier and politician; b. 1909; ed. Grammar School in Pakrac; fmr. carpenter and local trade union leader in Sisak; joined (illegal) Communist Party 1933; in U.S.S.R. 1935-37; fought with Spanish Republican Army 1937-39; imprisoned in concentration camp in France 1939-41; fought with Nat. Liberation Army in Yugoslavia 1942-45; commanded 1st Croatian Corps; Commdr. Gen. HQ of Croatia; Commdr. Zagreb Army after 1945; Mem. of Parl. 1945-63; Deputy Minister of Defence 1948-53; mem. of Fed. Exec. Council of Yugoslavia and Sec. of State for Defence 1953-67; mem. Praesidium of Cen. Cttee. of the Communist League of Yugoslavia; mem. Council of the Fed.; decorations include Orders of Freedom, of the National Hero, and Spanish (Republican), French, Greek, Soviet, Czechoslovak, Romanian, Polish, Albanian, Egyptian, Ethiopian and other honours. *Address:* Kneza Miloša 33, Belgrade, Yugoslavia.

GOSS, Richard John; South African chartered accountant; b. 8 July 1928, Cape Town; m.; one s. two d.; ed. Rondebosch Boys' High School; joined S.A. Breweries as Man. Accountant, Head Office, Johannesburg 52, Chief Accountant 1954-57, Asst. Admin. Man. 1957-60, Group Commercial Man. 1960-64; attended Harvard Business School, U.S.A. 1964; Gen. Man., Beer Div., S.A. Breweries 1965-67, Group Man. Dir. 1967-; Board mem. of all major cos. of S.A. Breweries Group; Dir. Netherlands Bank of S. Africa Ltd. and Southern Life Assen. *Leisure interest:* tennis. *Address:* The South African Breweries Ltd., P.O. Box 1099, 2 Jan Smuts Avenue, Johannesburg, South Africa.

GOSSE, Edmund Barr, M.A.; Australian company director; b. 14 July 1915, Perth; s. of late Sir James Gosse; m. Christel Gebhardt 1939; one s. one d.; ed. St. Peter's Coll., Adelaide, Trinity Hall, Cambridge; Man. Lysaght's Works, Newcastle 1953-63; Chair, John Lysaght (Aust.) Ltd. 1967-; Dir. Guest, Keen and Nettlefolds (Overseas) Ltd.; mem. Iron & Steel Inst., U.K.; Dir. ICI Australia Ltd., Perpetual Trustees of Australia Ltd. *Leisure interests:* gardening, squash. *Address:* 27 Sutherland Crescent, Darling Point, NSW 2027, Australia.

GOSZTONYI, Dr. János; Hungarian politician; b. 1925, Völcsej; s. of János Gosztonyi and Julianna Menyhárt; m. Angéla Klimes Szmink; ed. Univ. of Econ. Sciences, Budapest; mem. of Parl. 1947–; Head of Editorial Board Népszabadság 1965-70; Deputy Minister of Cultural Affairs and Educ. 1970-; State Sec. of Educ. 1974-; mem. Cen. Cttee. Hungarian Socialists Workers' Party. *Address:* Ministry of Education, H-1884 Budapest V, Szalay-u. 10/14, Hungary. *Telephone:* 118-600.

GOTT, Edwin Hays; American steel executive; b. 22 Feb. 1908, Pittsburgh, Pa.; s. of Leonard Hays and Isabel Dalzell; m. Mary L. Carr 1934; one s. two d.; ed. Lehigh Univ.; with U.S. Steel Corpn. 1937-; beginning as Industrial Engineer, Ohio Works; Vice-Pres. (Operations-Steel) 1956-58, Vice-Pres. (Production-Steel Producing Divs.) 1958-59, Admin. Vice-Pres. (Cen. Operations) 1959, Exec. Vice-Pres. (Production) 1959-67, Pres. and Chief Admin. Officer, U.S. Steel Corpn. 1967-68, Chair. and Chief Exec. Officer 1969-73, Dir., mem. Exec. Cttee. 1973-; official and mem. of civic and business orgs. *Leisure interests:* hunting, fishing. *Address:* U.S. Steel Corporation, 600 Grant Street, Pittsburgh, Pa. 15230, U.S.A. *Telephone:* 412-433-1191.

GOTT, Rodney Cleveland; American business executive; b. 11 Sept. 1911, Brooklyn, N.Y.; s. of Charles C. D. Gott and Florence Hutchinson; m. Lydia G. McAdam 1933; three s.; ed. U.S. Military Acad.; American Radiator and Standard Sanitary Corpn. 1935-41; AMF Inc. (fmrly. American Machine & Foundry Co.), New York 1946-, Vice-Pres. 1946-54, Exec. Vice-Pres. 1954-62, Pres. 1962-70, 1973-75, also Chair. and Chief Exec. Officer 1968-; Trustee, American Museum of Natural History 1963-, Briarcliff Coll. 1975-, Westchester Council of Arts. *Leisure interests:* tennis, water sports. *Address:* AMF Inc., 777 Westchester Avenue, White Plains, N.Y. 10604, U.S.A. *Telephone:* 914-694-9000.

GOTTA, Salvatore; Italian novelist and dramatist; b. 18 May 1887. *Publications:* Pia 1912, Il figlio inquieto 1917, La più bella donna del mondo 1919, L'amante provinciale 1919, Tre mondi 1921, Il primo re 1922, La donna mia 1924, Lula—misticismo e sensualità 1925, Ombra la moglie bella 1926, Il nome tuo 1927, La sagra delle vergini 1928, Il peccato originale 1929, Tu, la mia ricchezza 1930, L'amica dell'ombra 1932, Il gioco dei colori 1932, I figli degli amanti 1933, Lilith 1934, Il paradiso terrestre 1935, L'angelo ferito 1936, Portofino 1937, I giganti innamorati 1938, Amina 1939, La sposa giovane 1940, I sensitivi 1946, Piccolo alpino 1926, Il diavolo in provincia 1929, Serenata alle vergini 1930, Bella figlia dell'amore 1934, La signora di tutti 1935, A bocca nuda 1937, Tre donne innamorate 1939, Un fiore sull'autostrada 1940, Ottocento 1943, Di là dal fiume c'è una donna 1944, Il volto dell'umano amore 1944, Ingrid, l'amica delle nuvole 1944, Quartetto in paradiso 1945, Macerie ■ Portofino 1946, Signore salvaci, ci perdiamo 1947, 1972, Lo specchio dei sensi 1948, Domani ■ Te 1950, Tempo della Regina Margherita 1951, La Saga dei Vela (3 vols.) 1955, Ilaria 1956, L'Almandco di Gotta 1958, Orgasmo 1960, Due Donne a Sirmione 1961, Le Signore della Villa Antica 1962, I Diavoli del Gran Paradiso 1962, Zaira ragazza del Cirro 1963, Aria del mio Paese 1964, L'ultimo dei Vela 1965, Il progresso si diverte 1967, L'indemoniata 1969, Murat 1970, Il fiore di Matisse 1972, Corradino di Svevia 1973, Prendersi e Casciarsi. *Address:* Villa Aranci, Portofino (Genoa), Italy.

GÖTZE, Heinz, DR. PHIL.; German publisher; b. 8 Aug. 1912, Dresden; ed. Univs. of Leipzig, Munich and Naples. Partner (Co-Proprietor) Springer-Verlag, Berlin, Heidelberg, New York 1957-, J. F. Bergmann Verlagsbuchhandlung, Munich 1957-; Lange & Springer, Scientific Bookshop, Berlin 1957-; Pres. of Springer-Verlag New York Inc. 1964-; mem. Board of Dirs. Universitätsdruckerei H. Stürtz A.G., Würzburg 1965-; Corresp. mem. German Archaeological Inst. 1956-; Dr. Med. h.c. Univs. of Heidelberg and Erlangen 1972. *Address:* Springer-Verlag, D-69 Heidelberg, Neuenheimer Landstr. 28-30 (Office); Ludolf Krehl-Strasse 41, D-69 Heidelberg, Federal Republic of Germany (Home). *Telephone:* 06221-487225 (Office).

GOUGH, Rt. Rev. Hugh Rowlands, C.M.G., O.B.E., T.D., M.A., D.D.; British ecclesiastic; b. 19 Sept. 1905, Pakistan; s. of Rev. Charles Massey Gough; m. Madeline Elizabeth Kinnaird 1929; one d.; Ed. Cambridge Univ., London Coll. of Divinity; Deacon 1928, Priest 1929; Curate St. Mary Islington 1928-31; Perpetual Curate St. Paul, Walcot, Bath 1931-34; Vicar St. James Carlisle 1934-39, St. Matthew Bayswater 1939-46, of Islington and Rural Dean 1946-48; Prebendary St. Paul's Cathedral 1948; Archdeacon West Ham 1948-58; Suffragan Bishop of Barking 1948-59; Archbishop of Sydney 1959-66, Primate of Australia 1959-66; retd. 1972; mem. Council London Coll. of Divinity, Clifton, Theological Coll., Haileybury Coll., Monkton Combe School, St. Lawrence Coll., Chigwell School, Stowe School, Kingham Hill Trust; war service 1939-45, O.B.E. (Mil.), mentioned in despatches; Hon. Chaplain to the Forces 2nd Class; Hon. D.D. (Wycliffe, Toronto), Hon. Th.D. (Australia). *Address:* 12 St. James's Square, Bath, Avon, England. *Telephone:* Bath 313660.

GOUHIER, Henri Gaston; French university professor and writer; b. 5 Dec. 1898, Auxerre; m. Marie-Louise Dufour; one d.; ed. Ecole normale supérieure and Faculté des lettres de Paris; Prof., Faculty of Literature, Lille Univ. 1929-41, Univ. of Paris 1941-68; mem. Acad. des Sciences morales et politiques 1961-, Acad. Française 1979-, Royal Acad. of Belgium; Officier Légion d'honneur; Grand Prix de littérature de l'Acad. Française 1965, Grand Prix littéraire de la Ville de Paris 1976. *Publications:* La pensée religieuse de Descartes 1924, La vocation de Malebranche 1926, La philosophie de Malebranche et son expérience religieuse 1926, Notre ami Maurice Barrès 1928, La vie d'Auguste Comte 1931, L'essence du théâtre 1943, La jeunesse d'Auguste Comte et la formation du positivisme (3 vols.) 1933, 1936, 1941, Les conversions de Maine de Biran 1947, La philosophie et son histoire 1944, L'histoire et sa philosophie 1952, Le théâtre et l'existence 1952, Les premières pensées de Descartes 1958, L'oeuvre théâtrale 1958, Bergson et le Christ des Evangiles 1961 (Prix Lecomte de Nouy 1962), La pensée métaphysique de Descartes 1962, Pascal, Commentaires 1966, Benjamin Constant 1967, Les méditations métaphysiques de J.-J. Rousseau 1970, Le combat de Marie Noel 1971, Renan, auteur dramatique 1972, Pascal et les Humanistes Chrétiens: L'affaire Saint-Ange 1974, Antonin Artaud et l'essence du théâtre 1974, Fénelon philosophe 1977. *Leisure interest:* theatre. *Address:* 22 boulevard Flandrin, 75116 Paris, France. *Telephone:* 504-16-09.

GOULD, Beatrice Blackmar, M.S.; American magazine editor and writer; b. Emmetsburg, Iowa; d. of H. E. Blackmar and Mary K. Fluke; m. Charles Bruce Gould 1923; one d.; ed. State Univ. of Iowa and Columbia Univ.; Newspaper reporter and woman's editor N.Y. Sunday World 1926-29; writer for magazines 1929-35; Editor (with husband) Ladies' Home Journal 1935-62; various journalistic awards (with husband). *Publications:* Man's Estate 1927, The Terrible Turk 1934, American Story 1968 (two plays and autobio-

graphy, with husband). *Leisure interests:* theatre, books, sailing, swimming, dancing. *Address:* Bedensbrook, Hopewell, N.J., U.S.A. *Telephone:* 609-466-0170.

GOULD, Elliot; American actor; b. 29 Aug. 1938, Brooklyn, New York; s. of Bernard and Lucille Goldstein; m. 1st Barbra Streisand 1963 (divorced) 1971; one s; m. 2nd Jenny Bogart 1973 (divorced) 1975; one s, one d.; m. 3rd 1978; made Broadway début in Rumple 1957; other appearances include Say Darling 1958, Irma La Douce 1960, I Can Get It For You Wholesale 1962, Drat! The Cat 1965, Harry in Little Murders 1967 and 1971; toured in The Fantastiks with Liza Minnelli. *Films include:* The Confession 1966, The Night They Raided Minsky's 1968, Bob and Carol and Ted and Alice 1969, Getting Straight 1970, MASH 1970, The Touch 1971, Little Murders 1971, The Long Good-Bye 1972, Nashville 1974, I Will . . . I Will . . . For Now 1976, Harry and Walter Go to New York 1976, A Bridge Too Far 1977: *television appearances include:* The Jester in Once Upon A Mattress 1964. *Address:* Actors Equity Assoc., 1500 Broadway, New York, NY 10036, U.S.A.

GOULD, Glenn; Canadian composer and pianist; b. 1932, Toronto; ed. Royal Toronto Conservatory of Music; studied with Alberto Guerrero; Assoc. of Conservatory of Music at age of twelve; played at Eaton Auditorium in Casavant series 1946; debut with Toronto Symphony Orchestra 1946, debut in U.S.A. 1955; concert performances throughout the world including in Moscow, Leningrad 1957; gave up public performances 1964; recordings 1964-; fmr. Lecturer Toronto Univ.; Founder, Musical Dir. New Music Asscns. of Toronto; recordings for Columbia Records (CBS) 1955-; recordings, TV, radio programmes for Canadian Broadcasting Comm.; has written articles on music, and documentary The Idea of the North. *Address:* c/o Canadian Broadcasting Commission, 1500 Bronson Avenue, Ottawa, Ont. K1G 3J5, Canada.

GOULD, Kingdon, Jr., A.B., LL.B.; American diplomatist; b. 3 Jan. 1924, N.Y.; s. of Kingdon and Annunziata (Lucci) Gould; m. Mary Bunce Thorne 1945; four s. five d.; ed. High School in Millbrook, N.Y., Yale Univ. and Yale Law School; Dir. Consolidated Coal Co. 1945-50; Organizer and Principal, A & G Partnership, Parking Man. Inc. 1953-69; Amb. to Luxembourg 1969-72, to the Netherlands 1973-; Founder and Chair. Glenelg Country School 1954-; Dir. Butler Bros. 1955-57; Incorporator and Dir. State Bank of Laurel, Md. 1956-63; Organizer White Mountain Nat. Bank 1962; Organizer and Dir. Madison Nat. Bank 1963-69; Chair. Murray Corpn. 1964-69; mem. Md. Board of Natural Resources 1968-69. *Leisure interests:* riding, swimming, fly fishing, tennis, golf, skiing, chess. *Address:* Tobias Asserlaan, The Hague, Netherlands (Office); Overlook Drive, Laurel, Md. 20810, U.S.A. (Home). *Telephone:* 070-624911 (The Hague).

GOULD, Laurence McKinley, LL.D., SC.D., L.H.D., LITT.D., B.S., M.A.; American geologist; b. 22 Aug. 1896; ed. Univ. of Michigan; Prof. of Geology, Univ. of Mich. 1921-32; Prof. of Geology Carleton Coll., Northfield 1932-45; Chief Arctic Section, U.S.A.A.F. 1942-44; Pres. Carleton Coll. 1945-62; Prof. of Geology, Univ. of Ariz. 1963-; Dir. U.S. Antarctic Programme for Int. Geophysical Year; Trustee Ford Foundation; mem. Nat. Science Board; Trustee Carnegie Foundation for the Advancement of Teaching; Sc.D. h.c. *Publications:* Geological and Geographical Results of Putnam Baffin Island Expedition, Geographical Results of Byrd Antarctic Expedition 1931, The Geology of La Sal Mountains, Utah 1936, Glaciers of Antarctica, Structure of Queen Maud Mountains, Antarctica, Cold—The Record of an Antarctic Sledge Journey. *Address:* 9451 East Rosewood, Tucson, Ariz. 85710, U.S.A.

GOULD, Samuel Brookner, A.M.; American university chancellor; b. 11 Aug. 1910, New York; s. of Nathaniel Gould and Lina Brookner; m. Laura J. Ohman 1936; one s.; ed. Bates Coll., New York Univ., Oxford, Cambridge and Harvard Univs.; Instructor, William Hall High School, W. Hartford, Conn. 1932-38; Head Dept. of Speech, Brookline, Mass. Schools 1938-47; Prof. of Radio, Speech, Dir. of Div. of Radio, Speech and Theatre, Boston Univ. 1947-50; Asst. to Pres., Boston Univ. 1950-53; Senior Assoc., Cresap, McCormick & Paget 1953-54; Pres. Antioch Coll. 1954-59; Chancellor, Univ. of Calif. at Santa Barbara 1959-62; Pres. Educational Broadcasting Corpn. 1962-64; Chancellor, State Univ. of New York 1964-70, Emer. 1970-; Dir. McKinsey and Co. Inc. 1970-71; Vice-Pres. Educ. Testing Service and Pres. Inst. for Educ. Devt. 1971-74; Educ. Consultant 1975-; Chancellor, Conn. Comm. for Higher Educ. 1976-77; mem. numerous educational and civic cttees.; Hon. LL.D. (Bates Coll., Wilberforce Univ., Union Coll., New York Univ., Alfred Univ., Univ. of Calif., Colgate Univ., State Univ. of N.Y., Hon. L.H.D. (Alfred Univ.), Hon. Litt.D. (Univ. of Akron), Hon. D.Sc. (Albany Medical Coll.). *Publications:* Knowledge ■ Not Enough 1959, Training the Local Announcer (with S. A. Diamond) 1950, Explorations in Non-Traditional Study (co-editor) 1972, Diversity by Design (co-author) 1973. *Leisure interest:* golf. *Address:* 1055 Bogey Lane, Sarasota, Fla. 33577, U.S.A. *Telephone:* 813-388-2996.

GOULDEN, Mark; British journalist and publisher; s. of Morris and Eve Goulden; m. Jane Moore 1932; two s. one d.; ed. Clifton, Bristol; Reporter on Cambridge Daily News 1913; Man. Editor and Dir. Eastern Morning News and Hull Evening News 1923-30; Man. Editor Yorkshire Evening News, Leeds 1930-32; Man. Editor Sunday Referee 1932-36; fmr. Man. Editor Cavalcade, etc.; Chief Editor Argus Press Ltd.; Dir. Illustrated Publications Ltd. and Macfadden's Magazines Ltd. 1936-41; Chair. W. H. Allen & Co. 1939-; Dir. Howard and Wyndham 1970-76. *Publication:* Mark My Words (autobiography) 1978. *Leisure interests:* pioneer of British flying, speaking and writing on press and publishing. *Address:* 10 Lowndes Square, London, S.W.1, England; and 295 Madison Avenue, New York, N.Y. 10017, U.S.A. *Telephone:* 01-235 5110 (England).

GOULED APTIDON, Hassan; Djibouti politician; b. 1916, Djibouti; Rep. of French Somaliland (now Repub. of Djibouti) to French Govt. 1952-58; Vice-Pres. Territorial Assembly 1958-59; Deputy to French Nat. Assembly 1959-62; Minister of Educ. 1963-67; mem. (later Pres.) Ligue Populaire Africaine pour l'Indépendance—LPAI (fmrly. Ligue Populaire Africaine) 1967-; Pres. Council of Govt., responsible for Co-operation May-June 1977; Pres. Republ. of Djibouti, C.-in-C. of the Armed Forces June 1977-. *Address:* Présidence de la République, Djibouti, Republic of Djibouti.

GOULIAN, Mehran, A.B., M.D.; American physician; b. 31 Dec. 1929, Weehawken, N.J.; s. of Dicran Goulian and Shamiram Mzrakjian; m. Susan Hook 1961; three s.; ed. Columbia Coll. and Columbia Coll. of Physicians and Surgeons; Fellow in Medicine (Hematology). Yale Univ. School of Medicine 1959-60; Research Fellow in Medicine (Hematology), Harvard Univ. July-Dec. 1960, 1962-63, Instructor in Medicine 1963-65; Clinical and Research Fellow in Medicine (Hematology), Mass. Gen. Hospital July-Dec. 1960, 1962-63, Asst. in Medicine, 1963-65; Fellow in Biochemistry, Stanford Univ. School of Medicine 1965-67; Research Assoc. in Biochemistry, Univ. of Chicago and Argonne Cancer Research Hospital 1967-69, Assoc. Prof. of Medicine 1967-70, Assoc. Prof. of Biochemistry 1969-70; Prof. of Medicine, Univ. of Calif., San Diego 1970-. *Leisure interest:* music. *Address:* Department of Medicine, University of California, San Diego, La Jolla, Calif. 92037, U.S.A. *Telephone:* 714-452-3016.

GOULLI, Slaheddine El, LL.D.; Tunisian diplomatist; b. 22 June 1919, Sousse; m. 1958; one d.; ed. Collège de Sousse and Université de Paris; in private industry 1947-56; active in Tunisian Nat. Liberation Movement, Europe 1947-56; Gen. Consul, Marseilles 1956-58; Counsellor, Washington 1958, Minister, Washington 1959-62; Alt. Exec. Dir. World Bank 1961-62; Amb. to Belgium, also accred. to Netherlands and Luxembourg 1962, concurrently Perm. Rep. to EEC; Perm. Rep. to UN 1969; Amb. to U.S.A. 1969-74, also accred. to Mexico 1970-74 and Venezuela 1972-74; Special Adviser to Foreign Minister 1974-76; Amb. to the Netherlands 1976-78; Grand Cordon de l'Ordre de la République Tunisienne 1966, also decorations from Belgium and Luxembourg. *Address:* c/o Ministry of Foreign Affairs, Tunis, Tunisia.

GOUYON, H.E. Cardinal Paul; French ecclesiastic, b. 24 Oct. 1910, Bordeaux; s. of Louis Gouyon and Jeanne Chassaing; ordained priest 1937; consecrated Bishop 1957; Bishop of Bayonne 1957; Titular Archbishop of Pessinonte 1963; Archbishop of Rennes 1964-cr. Cardinal 1969. *Address:* Archevêché, 3 contour de la Motte, 35042 Rennes Cedex, France. *Telephone:* (99) 304503.

GOWON, Gen. Yakubu, B.A.; Nigerian army officer; b. 19 Oct. 1934, Garam, Pankshin Div., Plateau State; s. of Yohanna and Saratu Gowon; m. Victoria Hansatu 1969; one s.; ed. St. Bartholomew's School, Wusasa, Zaria, Govt. Coll., Zaria, Royal Military Acad., Sandhurst, Staff Coll., Camberley and Joint Services Staff Coll., Latimer, England; Adjutant, Nigerian Army March 1960; with UN peacekeeping force, Congo 1960-61, 1963; promoted Lieut.-Col. and appointed Adjutant-Gen. Nigerian Army June 1963; Chief of Staff 1966; Maj.-Gen. June 1967; promoted General Oct. 1971; Head of Fed. Mil. Govt. and C.-in-C. of Armed Forces of Fed. Repub. of Nigeria 1966-75 (deposed in coup); studying at Warwick Univ. 1975-; Chair. Ass. of Heads of State, OAU 1973-74. *Leisure interests:* squash, tennis, cinematography, pen-drawings. *Address:* University of Warwick, Coventry, CV4 7AL, England.

GOYER, Hon. Jean-Pierre, P.C., Q.C., B.A., LL.B.; Canadian lawyer and fmr. politician; b. 17 Jan. 1932, St. Laurent, Quebec; s. of Gilbert and Marie-Ange Goyer; m. Michelle Gascon 1960; three d.; ed. Univ. of Montreal. Called to the Bar of Quebec and Ont.; M.P. for Montreal-Dollard 1965, re-elected 1968, 1972, 1974; Parl. Sec.

to Sec. of State for External Affairs 1968-70; mem. Cabinet and Solicitor-Gen. of Canada 1970-72; Minister of Supply and Services and Receiver Gen. of Canada 1972-78; practises law in Montreal; partner, Courtois, Clarkson, Parsons and Tétrault, Montreal 1979–; Liberal. *Leisure interests:* tennis, skiing, squash. *Address:* Suite 2200, 630 Dorchester Boulevard West, Montreal, H3B 1V7 (Office); Apartment 518, Habitat 67, Montreal, H3C 3R6, Canada (Home).

GRAAFF, Sir de Villiers, Bart., M.B.E., M.P.; South African politician; b. 8 Dec. 1913; ed. Univs. of Cape Town, Oxford and Leiden (Netherlands); served Second World War; M.P. 1948-58, 1958-77; Chair. United Party, Cape Province 1956-58; Leader of the Opposition (United South African Nat. Party) 1956-77; participated in formation of New Repub. Party, Interim Leader 1977. *Address:* De Grendel, Pte. Bag G.P.O. Cape Town, Cape Province, South Africa.

GRABAR, André, D. ÈS L.; (brother of Pierre Grabar, q.v.); French art historian and archaeologist; b. 26 July 1896, Kiev, U.S.S.R.; s. of Nicolas Grabar and Elizabeth Baronne Prittwitz; m. Julie Ivanova 1923; two s.; fmr. Prof. of History of Art, Strasbourg Univ., Ecole des Hautes Etudes 1937; Prof. of Early Christian and Byzantine Archaeology, Coll. de France 1946-66; mem. Acad. des Inscriptions et Belles Lettres 1955-, Dumbarton Oaks Inst., Deutsches Archäologisches Inst. and of other Acads. in U.K., U.S.A., Austria, Bulgaria, Denmark, Norway, Serbia, Italy; founded Cahiers Archéologiques; Dr. h.c. (Princeton, Edinburgh and Uppsala). *Publications:* La peinture religieuse bulgare 1928, L'empereur dans l'art byzantin 1936, Martyrium 1946, La peinture byzantine 1954, Le haut Moyen-Age 1957, La peinture romane 1958, L'iconoclasme byzantin 1958, Sculptures byzantines 1963, Byzance 1963, Le premier art chrétien 1966, Le siècle d'or de Justinien 1966, L'art du Moyen Age en Europe orientale, L'art de la fin de l'Antiquité et du Moyen Age 1968, Christian Iconography, a Study of its Origins 1968. *Leisure interest:* painting. *Address:* 2 avenue Dode de la Brunerie, 75016 Paris, France. *Telephone:* AUT 3656.

GRABAR, Pierre, (brother of André Grabar, *q.v.*); French immunologist; b. 10 Sept. 1898, Kiev, U.S.S.R.; s. of Nicolas Grabar and Elizabeth Prittwitz; m. Nina Ivanova 1929 (died 1974); one d.; ed. Lycée Kiev and Univs. of Strasbourg and Paris; Lecturer, Univ. of Strasbourg 1926-38; Chief of Lab., Inst. Pasteur 1938-45, Chief of Dept. 1945-68, Emer. Chief of Dept. 1969; Dir. Cancer Research Inst., Nat. Centre for Scientific Research 1961-68, Emer. Dir. 1969–; mem. French Acad. of Medicine; mem. or Hon. mem. numerous int. learned socs.; Dr. h.c. (Copenhagen); Behring Int. Prize; Prizes of the French Acad. of Science; Officier Légion d'honneur, Commdr. des Palmes académiques; Gairdner Award, Univ. of Toronto, Grande Médaille de la Ville de Lille and several other awards, Great Medal of First Int. Congress of Immunology 1970, Golden Robert Koch Medal 1977. *Publications:* more than 300 publications (incl. 3 monographs) on immunochemistry, proteins, ultrafiltration, ultrasonics, electrophoresis, etc. *Leisure interests:* gardening, stamps, music. *Address:* Institut Pasteur, 28 rue du Dr. Roux, 75015 Paris (Office); 192 bis, rue de Vaugirard, 75015 Paris, France (Home). *Telephone:* 567-85-45 (Home).

GRABER, Pierre; Swiss politician; b. 6 Dec. 1908, La Chaux-de-Fonds; s. of Paul and Blanche (née Vuilleumier) Graber; ed. gymnasiums in Neuchâtel and Berne and Univs. of Neuchâtel and Vienna; Lawyer, Lausanne 1933-46; mem. Lausanne Legis. Council 1933-46; mem. Great Council of Vaud 1937-46; Mayor of Lausanne 1946-49; mem. Lausanne City Council and Dir. Dept. of Finance, Lausanne 1949-62; mem. Council Canton Vaud, Dir. Dept. of Finance 1962-70, Pres. 68; mem. Nat. Council 1942-69, Pres. 1966; Leader of Socialist Group in Fed. Assembly 1967-69; mem. Fed. Council 1970-77, Head of Fed. Political (Foreign Affairs) Dept. 1970-77; Vice-Pres. Fed. Council Jan.-Dec. 1974; Pres. of Swiss Confed. Jan.-Dec. 1975; Social Democrat. Alter Aargauerstalden 9, 3000 Berne, Switzerland.

GRACE PATRICIA, Her Serene Highness Princess of Monaco, (Grace Patricia Kelly); b. 12 Nov. 1929; d. of John Brendan and Margaret (Majer) Kelly; m. His Serene Highness Prince Rainier III of Monaco (*q.v.*) 1956; one s. two d.; ed. Acad. of the Assumption and Stevens School (Philadelphia) and American Acad. of Dramatic Arts, New York; began stage career in Philadelphia; appeared on Broadway in the play The Father 1949; films 1951-56 include Fourteen Hours, High Noon, Dial M For Murder, Rear Window, The Country Girl (Oscar), Bridges at Toko-Ri, To Catch a Thief, The Swan, High Society, Mogambo, Green Fire; Pres. of Monégasque Red Cross 1958-; Hon. Pres. Monaco U.S.A., Girl-Guides of Monaco, Assen. des Amis de l'Enfance, Irish-American Cultural Inst.; Pres. Garden Club of Monaco, Princess Grace Foundation; Chair. Organizing Cttee. Centennial of Monte Carlo 1966; mem. Int. Council of The Salk Inst., San Diego; mem. Board of Dirs. 20th Century Fox; Grand Croix Order of St. Charles, Grand Cordon Order of Greece, Grand Croix of the Equestrian Order of Greece, Grand Croix of the Equestrian Order of the Holy Sepulchre of Jerusalem, Lady of the Sovereign Order of Malta, Gold Medals of French, Italian and Austrian Red Cross. *Leisure interests:* cultural and social activities of the Principality. *Address:* Palais Princier, Monaco-Ville, Monaco. *Telephone:* 30-18-31.

GRACE, J. Peter; American business executive; b. 25 May 1913, Long Island, N.Y.; s. of Joseph P. and Janet Macdonald Grace; m. Margaret Fennelly 1941; five s. four d.; ed. Yale Univ.; joined W. R. Grace & Co. 1936, Sec. 1942-43, Dir. 1943-, Vice-Pres. 1945, Pres. and Chief Exec. Officer 1945-; Dir. Kennecott Copper Corpn., Citibank N.A., Ingersoll-Rand Co., Citicorp., Milliken and Co., Omega Fund Inc., Brascan Ltd., Stone & Webster Inc.; Chair. of Board Chemed Corpn.; Trustee, Atlantic Mutual Insurance Co.; Trustee, U.S. Council for Int. Chamber of Commerce; active in many fields of public service; Hon. LL.D. from several colls. and univs.; many foreign decorations. *Address:* W. R. Grace & Co., Grace Plaza, 1114 Avenue of the Americas, New York, N.Y. 10036, U.S.A. (Office). *Telephone:* (212) 764-5555 (Office).

GRACE, William Edwin; American trailer manufacturer; b. 27 April 1908, Fort Worth, Tex.; s. of James Grace and Anna Christelles; m. Mary Corinne Funderburk 1931; one s.; ed. public schools; Bookkeeper, Hobbs Mfg. Co., Fort Worth 1930, Office Man. 1931-33, Credit Man. 1933-35, Sales Man. 1935-37, Vice-Pres. and Gen. Man. 1937-41, Exec. Vice-Pres. (Operations) 1941-55; Vice-Pres. (Hobbs Trailer Div. and Southwestern Div.) Fruehauf Trailer Co. (now named Fruehauf Corpn.) 1955-58, Pres. and Chief Exec. Officer 1958-73, Chair. of Board 1973-78; Pres. W. E. Grace Finance Co. 1934-; official of numerous other corpns. *Address:* 6001 Indian Creek Court, Fort Worth, Tex. 76107, U.S.A. *Telephone:* 313-267-1025.

GRACQ, Julien; French professor and writer; b. 27 July 1910, St. Florent le Vieil, Maine et Loire; ed. Ecole Normale Supérieure and Ecole des Sciences Politiques, Paris (Prof. agrégé d'histoire); Prof. d'histoire 1935-47; Prof. d'histoire Lycée Claude Bernard, Paris 1947-70; retd. *Publications:* Au château d'Argol 1939, Un beau ténébreux 1945, Le roi pêcheur 1947, Liberté grande 1947, André Breton 1947, La littérature à l'estomac 1950, Le rivage des Syrtes 1951, Un balcon en forêt 1958, Préférences 1961, Lettrines 1967, La presqu'île 1970, Lettrines 2 1974, Les eaux étroites 1976. *Leisure interest:* chess. *Telephone:* 222-00-12.

GRAD, Harold, PH.D.; American professor of mathematics; b. 14 Jan. 1923, New York; s. of Herman Grad and Helen Selinger; m. Betty J. Miller 1949; one s. one d.; ed. Cooper Union and New York Univ.; Asst. Prof., New York Univ. 1948, Assoc. Prof. 1952, Prof. of Mathematics 1957-, Dir. Magneto-Fluid Dynamics Div., Courant Inst. of Mathematical Sciences 1959-; Chair. Fluid Dynamics Div. 1963, Plasma Physics Div. 1969, American Physical Soc.; mem. Nat. Acad. of Sciences; New York Acad. of Science award in Nuclear Physics and Eng. 1970. *Publications:* articles and chapters in books on kinetic theory of gases, plasma physics, controlled thermonuclear research. *Address:* Courant Institute of Mathematical Sciences, 251 Mercer Street, New York, N.Y. 10012 (Office); 248 Overlook Road, New Rochelle, N.Y. 10804, U.S.A. (Home). *Telephone:* 212-460-7204 (Office); 914-636-7969 (Home).

GRADE, Baron (Life Peer), cr. 1976, of Elstree in the county of Hertfordshire; **Lew Grade,** Kt.; British television executive; b. 25 Dec. 1906; s. of Isaac and Olga Winogradsky; brother of Baron Delfont (*q.v.*); m. Kathleen Sheila Moody 1942; one s.; ed. Rochelle Street School; Joint Man. Dir. theatrical agents—Lew and Leslie Grade Ltd. 1955; Deputy Man. Dir. Assoc. Television Ltd. 1955-; Man. Dir. Inc. Television Co. Ltd.; Chief Exec. and Deputy Chair. Assoc. Television Corpn. Ltd., Chief Exec. and Chair. 1973-; Deputy Chair. and Man. Dir. ATV Network Ltd. until 1973, Chair. 1973-77, Pres. 1977-; Chair. Stoll Theatres Corpn., Moss Empires 1973-A. P. Films Ltd., Assoc. Film Distributors 1978-; Dir. Assoc. Television Corpn. (Int.) Ltd., Independent Television Corpn. (U.S.A.), Canastel Broadcasting Corpn. (Canada), New World Music Ltd., Ambassador Bowling Ltd., Planned Holdings Ltd., Bermans (Holdings) Ltd., Bentray Investments Ltd., Pye Records Ltd. *Address:* ATV House, Great Cumberland Place, London, W1A 1AG, England.

GRADL, Johann Baptist, DR. RER.POL.; German politician; b. 25 March 1904, Berlin; m. Marianne Brecour 1931; two s. two d.; ed. Kaiser-Wilhelm-Realgymnasium, Berlin, Humboldt-Universität zu Berlin, and Martin Luther-Universität, Halle-Wittenberg; on staff of Germania, Berlin 1926-30; mem. Exec. Board Deutsche Sparkassen-und Giroverband (Union of German Savings and Deposit

Banks) 1931-38; mem. Reichsgruppe Banken 1938-45; newspaper publisher, W. Berlin 1948-65; mem. Centre Party until 1933; mem. CDU 1945-, mem. Fed. Board of Dirs. of CDU 1953-71; mem. Bundestag 1957-; Fed. Minister for Expellees, Refugees, War Victims and All-German Affairs 1965-66; Grosses Bundesverdienstkreuz mit Stern und Schulterband. *Publication:* The History of Reparation Payments, For German Unity. *Leisure interest:* classical music. *Address:* Bonn, Bundeshaus (Office); Zerbster Strasse 28, 1 Berlin 45-Lichterfelde, Federal Republic of Germany (Home). *Telephone:* (West Berlin) 7116087.

GRAFFMAN, Gary; American pianist; b. 14 Oct. 1928; ed. Curtis Inst. of Music, Philadelphia under Mme. Isabelle Vengerova; Professional début with Philadelphia Orchestra 1947; concert tours all over the world; appears annually in America with major orchestras; gramophone recordings for Columbia Masterworks and RCA Victor including concertos of Tchaikovsky, Rachmaninoff, Brahms, Beethoven, Chopin and Prokofiev. *Address:* Arthur Judson Management, 119 West 57th Street, New York, N.Y. 10019, U.S.A.

GRAHAM, Billy (*see* Graham, William Franklin).

GRAHAM, Donald Martin, LL.D.; American banker; b. 10 Sept. 1913, Pittsburgh, Pa.; s. of the late Robert T. and Jane M. Graham; m. Josephine D. Hall 1936; two s. one d.; ed. Northwestern Univ.; Associated with law firm Mayer, Meyer, Austrian & Platt (now Mayer, Brown & Platt) 1936-44, Partner 1945-52; Vice-Pres. Continental Ill. Nat. Bank and Trust Co. of Chicago 1953, Senior Vice-Pres. 1959, Vice-Chair. Board of Dirs. 1960, Chair. of Board and Chief Exec. Officer 1969-73; Hon. Litt.D. (DePaul), Hon. L.D. (MacMurray Coll.) and other honours. *Leisure interests:* fishing and reading. *Address:* 2247 Orrington Avenue, Evanston, Ill. 60201, U.S.A. *Telephone:* 312-DA8-7554.

GRAHAM, Gerald Sandford, PH.D., F.R.HIST.S.; Canadian university professor emeritus; b. 27 April 1903, Sudbury, Ont.; s. of Rev. H. S. Graham and Florence M. Chambers; m. Constance M. Greey 1950; two s. two d.; ed. Queen's Univ. (Ontario) and Harvard, Cambridge, Berlin and Freiburg Univs.; Instructor in History and Tutor, Harvard Univ. 1930-36; Lecturer, Asst., Assoc. and later Prof., Queen's Univ. 1936-46; served R.C.N.V.R. 1942-44; Reader in History, Birkbeck Coll., Univ. London 1946-48, Rhodes Prof. of Imperial History, King's Coll. 1949-70; Visiting Prof. Univ. of Wis. 1962, Univ. of Hong Kong 1966, Univ. of Western Ont. 1970-72; Montague Burton Visiting Prof. Univ. of Edinburgh 1974; Hon. D.Litt. (Waterloo, Ont.), Hon. LL.D. (Queen's, Ont.) 1976. *Publications:* British Policy and Canada 1774-91 1930, Sea Power and British North America 1783-1820 1941, Canada, A Short History 1950, Empire of the North Atlantic 1950, 1958, The Walker Expedition to Quebec, 1711 1954, The Navy and South America 1807-1823 (with R. A. Humphreys) 1962, The Politics of Naval Supremacy 1965, Britain in the Indian Ocean 1810-1850 1967, A Concise History of Canada 1968, A Concise History of the British Empire 1969, Tides of Empire 1972, The Royal Navy in the American War of Independence 1976; The China Station 1830-1860 1978; Editor Imperial Studies Series (auspices Royal Commonwealth Soc.) 1958-70, West Africa History Series 1956-70; contributor to Newfoundland, Economic, Diplomatic and Strategic Studies 1946, Cambridge History of the British Empire (Vol. III) 1959. *Leisure interests:* travel, food and wine. *Address:* The Athenaeum, Pall Mall, London, S.W.1; Hobbs Cottage, Beckley, Rye, Sussex, England (Home). *Telephone:* Beckley 308 (Home).

GRAHAM, John Alexander Noble, C.M.G., B.A.; British diplomatist; b. 15 July 1926, Calcutta, India; s. of Sir Reginald Graham, Bart., V.C., O.B.E.; m. Marygold E.G. Austin 1956; two s. one d.; ed. Eton, Trinity Coll. Cambridge; Served with British Army 1944-47; entered diplomatic service 1950, serving in Lebanon, Bahrain and Kuwait; Asst. Private Sec. to Foreign Sec. 1954-57; First Sec., Belgrade 1957-60, Benghazi 1960-61; Foreign Office 1961-66; Principal Private Sec. to Foreign Sec. 1969-72; Amb. to Iraq 1974-77; Deputy Under Sec., Foreign and Commonwealth Office 1977-78; Amb. (designate) to Iran 1978-. *Leisure interests:* fishing, shooting. *Address:* c/o Foreign and Commonwealth Office, Downing Street, London S.W.1, England.

GRAHAM, Katharine; American newspaper executive; b. 16 June 1917, New York; d. of Eugene and Agnes Meyer; m. Philip L. Graham 1940 (died 1963); three s. one d.; ed. Madeira School, Vassar Coll., and Univ. of Chicago; Reporter San Francisco News 1938-39; various depts. The Washington Post 1939-45; Pres. The Washington Post Co. (owns The Washington Post, Washington, Newsweek magazine, and several radio and TV stations) 1963-73, Chair. of Board and Chief Exec. Officer 1973-; Publisher, The Washington Post 1969-79; Trustee, The Conference Board, The Urban Inst., Fed. City Council; mem. Ind. Comm. on Int. Devt. Issues (Brandt Comm.); mem. Board Newspaper Advertising Bureau, Inc., American Newspaper Publrs. Assn., Assoc. Press; mem. American Soc. of Newspaper Editors; John Peter Zenger Award 1973. *Address:* 1150 15th Street, N.W., Washington, D.C. 20071 (Office); 2920 R Street, N.W., Washington, D.C. 20007, U.S.A. (Home).

GRAHAM, Martha, LL.D.; American dancer and choreographer; b. 11 May 1894, Pittsburgh; ed. Bard Coll.; studied with Ruth Denis; Soloist Denishawn Co. 1920, Greenwich Village Follies 1923; choreographer-dancer 48th Street Theatre, New York 1926; Founder, Artistic Dir. Martha Graham Dance Co., Martha Graham School of Contemporary Dance; solo performances with leading orchestras of U.S.A.; has choreographed for foreign dance cos. and toured with co. abroad; Guggenheim Fellow 1932, 1939, Capegio Award 1959, Aspen Award 1965, Creative Arts Award, Brandeis Univ. 1968, Distinguished Service to Arts Award, Nat. Inst. of Arts and Letters 1970, Handel Medallion of New York 1970. *Works include:* Appalachian Spring, Letter to the World, Cave of the Heart, Diversion of Angels, Acrobats of God, Dark Meadow, Night Journey, Clytemnestra, Phaedra, Legend of Judith, Errand into the Maze, Seraphic Dialogue, Mendicants of the Evening, Myth of a Voyage, Holy Jungle, Stone of Destiny, Dream 1974, Lucifer 1975, Scarlet Letter 1975, Point of Crossing 1975. *Publication:* The Notebooks of Martha Graham 1937. *Address:* Martha Graham School of Contemporary Dance, 316 East 63rd Street, New York, N.Y. 10021, U.S.A.

GRAHAM, Peter A., O.B.E.; British banker; b. 1922; m.; two s. two d.; ed. St. Joseph's Coll.; war service in Fleet Air Arm; joined Chartered Bank of India, Australia and China 1947, serving throughout Far East 1947-62, Chief Man., Hong Kong 1962-70, Gen. Man., London 1970-75, Deputy Man. Dir. of Standard Chartered Bank Ltd. 1975-77, Man. Dir. April 1977-; Chair. Standard Chartered Merchant Bank Ltd. Jan. 1977-. *Leisure interests:* golf, tennis, fruit farm. *Address:* Standard Chartered Merchant Bank Ltd., 10 Clements Lane, London, EC4N 7AB, England.

GRAHAM, Pierre Robert, M.A.; American diplomatist; b. 10 Aug. 1922, France; s. of William R. Graham and Jeanne Augereau; m. Dr. Helgard Planken 1968; three d.; ed. Coll. Aristide Briand, U.S. Merchant Marine Acad. and Univ. of Chicago; Third Sec., Morocco 1951-54; Second Sec., Lebanon 1954-57, France 1957-58; First Sec., Senegal 1958-61; Chief of Personnel for Latin America, Dept. of State 1962-64; Counsellor and Chargé d'affaires, Guinea 1964-66; Deputy Dir. Office of Int. Econ. and Social Affairs, Dept. of State 1967-69; Perm. Rep. to UNESCO 1969-73; Counsellor and Chargé d'affaires, Amman, Jordan 1973-74; Amb. to Upper Volta 1974-. *Address:* American Embassy, P.O. Box 35, Ouagadougou, Upper Volta.

GRAHAM, William Franklin (Billy), A.B., B.TH.; American evangelist; b. 7 Nov. 1918, Charlotte, N.C.; s. of William Franklin and Morrow Graham; m. Ruth M. Bell 1943; two s. three d.; ed. Florida Bible Seminary, Tampa and Wheaton Coll.; Ordained to Baptist Ministry 1939; Minister First Baptist Church, Western Springs, Ill. 1943-45; First Vice-Pres. Youth for Christ International 1945-48; Pres. Northwestern Schools, Minneapolis 1947-52; founder World Wide Pictures, Burbank, Calif.; worldwide evangelistic campaigns 1949-; speaker weekly Hour of Decision radio programme 1950-; also periodic crusade telecasts; founder, Pres., Billy Graham Evangelistic Assn.; Hon. Chair. Lausanne Congress on World Evangelization 1974; numerous awards including Bernard Baruch Award 1955, Humane Order of African Redemption 1960, Gold Award, George Washington Memorial Inst. 1963, Horatio Alger Award 1965, Int. Brotherhood Award Nat. Conf. of Christians and Jews 1971, Sylvanus Thayer Award, Assn. of Graduates of U.S. Mil. Acad. 1972, Franciscan Int. Award 1972; Man of South Award 1974, Liberty Bell Award 1975. *Publications:* Peace with God 1953, The Secret of Happiness 1955, My Answer (book) 1954, World Aflame 1965, The Challenge, The Jesus Generation 1971, Angels—God's Secret Agents 1976, How to be Born Again 1977, The Holy Spirit 1978. *Address:* 1300 Harmon Place, Minneapolis, Minn. (Office); Montreat, N. Carolina 28757, U.S.A. (Home). *Telephone:* 612-338-0500 (Office).

GRAINGER, Isaac B.; American banker; b. 15 Jan. 1895, Wilmington, N.C.; s. of John V. and Katie R. Grainger; m. Catherine Garrett 1917; three s.; ed. Woodberry Forest School, Orange, Va., and Princeton Univ.; fmrly. Vice-Pres. Murchison Nat. Bank, Wilmington, N.C.; Exec. Vice-Pres. N.C. Bank and Trust Co. 1929-34; Pres. Montclair Trust Co. 1934-43; Vice-Pres. Chemical Bank (New York) Trust Co. 1943-50, Exec. Vice-Pres. 1950-56, Pres. 1956-60; Dir. Fort Myers Southern Railroad Co., Hartford Fire Insurance Co., Hartford Accident and Indemnity Co., American Mfg. Co., Shearson Capital Fund Inc., Shearson Appreciation Fund; Adviser

Dir. Union Electric Co.; Vice-Pres. and Trustee, Inst. for Crippled and Disabled; mem. New York Chamber of Commerce; mem. N.C. Soc., Soc. of Colonial Wars in State of New York, Pilgrims of U.S., Newcomen Soc. (England); Infantry Capt. in First World War. *Leisure interests:* golf, bridge, fishing, backgammon. *Address:* 200 East 66th Street, New York, N.Y., U.S.A.

GRAINVILLE, Patrick; French novelist; b. 1 June 1947, Villers-sur-mer; m. 1971; ed. Lycée Deauville, Sorbonne; Teacher, Lycée de Sartrouville 1971-; agrégé de lettres; Prix Goncourt for Les flamboyants 1976. *Publications:* La toison 1972, La lisière 1973, L'abîme 1974, Les flamboyants 1976. *Address:* c/o Académie Goncourt, 38 rue du Faubourg Saint Jacques, 75014 Paris, France. *Telephone:* 962-09-08.

GRANADO, Donald Casimir; Trinidadian trade unionist, politician and diplomatist; b. 14 March 1915, Trinidad; s. of Gregorio and Octavia Granado; m. Anne-Marie Faustin (Lombard) 1959; one s. one d. and one d. by previous marriage; fmr. School Teacher; Sec. Union of Commercial and Industrial Workers 1950-54; Sec./Treas. Trinidad and Tobago Fed. of Trade Unions 1953-54; Pres. C.G.A. Credit Union 1954-56; Sec./Treas. People's Nat. Movement 1956; Minister of Labour and Social Services 1956-61; Minister of Health and Housing and Deputy Leader of House of Reps. 1961-63; Trinidad and Tobago Amb. to Venezuela 1963-64; High Commr. in Canada 1964-69; Amb. to Brazil and Argentina 1965-69; High Commr. to U.K. 1969-71; resigned 1971; Perm. Rep. to EEC 1969-71; fmr. Amb. to France, Germany, Italy, Belgium, Luxembourg, Netherlands, Switzerland; Man. Valpark Shopping Plaza; awarded Trinity Cross (Trinidad and Tobago's highest honour). *Leisure interests:* cricket, environmental improvement, bridge, gardening, golf. *Address:* "Chadenam G," 20 Grove Road, Valsayn Park North, Curepe, Trinidad. *Telephone:* 662-5905.

GRANATKIN, Valentin Aleksandrovich; Soviet sports administrator; b. 16 July 1908, Moscow; s. of Aleksandr Mikhailovich and Yevdokia Yakovlevna Granatkin; m. Valentina Nikolayevna Dokuchayeva 1933; one d.; ed. Moscow technical school; Electrical engineer until 1942; on staff of Central Cttee. CPSU 1942-50; Chair. Moscow Regional Cttee. of Physical Culture and Sport 1951-53; Deputy Chair. of Cttee. for Physical Culture and Sport, R.S.F.S.R. Council of Ministers 1954-59; mem. Central Presidium of Soviet Union Sports Socs. and Orgs. 1959-64; Pres. Football Fed. of U.S.S.R. 1950-64, 1968-; Vice-Pres. Int. Football Fed. 1946-; various decorations. *Leisure interests:* music, record collecting. *Address:* U.S.S.R. Committee for Physical Culture and Sports, 4 Skatertny pereulok, Moscow, U.S.S.R. *Telephone:* 2915794.

GRANDETZKA, Willi; German agriculturist and politician; b. 10 March 1927; Chair., Erfurt District Exec., Demokratische Bauernpartei Deutschlands 1965-; mem. Presidium DBD Cen. Exec. 1968-; mem. Volkskammer 1967-; Deputy Chair. Cttee. for Citizens' Complaints, Volkskammer 1967; mem. Council of State 1971-; Vaterländischer Verdienstorden in Bronze and Silver, and other decorations. *Address:* Staatsrat, Marx-Engels-Platz, Berlin 102, German Democratic Republic.

GRANDGEORGE, René Jean; French engineer and businessman; b. 27 Feb. 1899, Geneva; s. of Henri Grandgeorge and Georgine Excoffier; m. Simone Christin 1926; one s. four d.; ed. Ecole Centrale de Paris. Hon. Gen. Man. Compagnie de Saint-Gobain; Dir. La Pierre Synthétique; Commdr. Légion d'honneur, Grand Officer Ordine al Merito (Italy). *Leisure interests:* golf, sailing. *Address:* Compagnie de Saint-Gobain, 62 boulevard Victor Hugo, 92 Neuilly-sur-Seine (Seine) (Office); La Mougine, 06-Mougins (A.M.), France (Home).

GRANDI, Dino, Count (di Mordano); Italian lawyer, politician and diplomatist; b. 4 June 1895; ed. Bologna Univ.; served Italian Army First World War (decorated); led Fascist movement in Northern Italy and took part in March on Rome as Chief of Gen. Staff of the Quadrumvirate; mem. Gen. Council of Fascist Party; mem. Gen. Council of Italian Nat. Trade Unions 1920-23; elected to Chamber of Deputies 1921; Vice-Pres. 1924; Under-Sec. of State for Home Affairs 1924; for Foreign Affairs 1925-29; Ministry of Foreign Affairs 1929-32; Amb. to U.K. 1932-39; Head of Italian Del. to Locarno Conf. 1925; to Confs. for Settlement of War Debt 1925, 1926, and 1929; to Financial Conf., Paris and London 1931; to Naval Conf. in London 1930 and 1936; to Reparations Conf. Lausanne 1932; to Disarmament Conf. Geneva 1932; Permanent Italian Del. to L.N. Council and Assembly 1925-32; Italian Rep. on Non-Intervention Cttee. 1936-39; Ministry of Justice 1939-43; Pres. of the Chamber of the Fasci and Corpns. 1939-43; Prof. of Law in Rome Univ. during Second World War; involved in overthrow of Mussolini 1943; now in retirement. *Publications:* Origins of Fascism 1929, Italian Foreign Policy 1931, The Spanish War in the London Committee 1939, The Frontiers of the Law 1939, Humanity and Law 1941, and other legal works. *Address:* Albareto Di Modena, Italy.

GRANDVAL, Gilbert Yves Edmond; French government official and politician; b. 12 Feb. 1904; ed. Lycée Condorcet; Chemical Industry 1927-40, Head of Resistance in Eastern France 1943-44, Military Gov. Saar 1945-48, French High Commr. Saar 1948-52, Amb. 1952-55; Resident-Gen. in Morocco 1955; Sec.-Gen. Merchant Marine 1958; Sec. of State for External Trade April-May 1962; Minister of Labour 1962-66; Pres. Cie. des Messageries Maritimes 1966-72, Hon. Pres. 1972; Pres. Union Travailliste 1971-; mem. Conseil, Ordre de la Libération. *Publications:* Ma mission au Maroc 1956, La libération de l'Est de la France 1974. *Address:* 9 rue Armengaud, 92210 Saint-Cloud (Hauts-de-Seine), France.

GRANDY, Marshal of the R.A.F. Sir John, G.C.B., K.B.E., D.S.O.; British air force officer; b. 8 Feb. 1913, Northwood, Middx.; s. of the late Francis Grandy and Nellie Lines; m. Cecile Elizabeth Florence Rankin 1937; two s.; ed. Univ. Coll. School, London; Pilot Officer 1931; served Second World War; Deputy Dir. Operational Training, Air Ministry 1946-49; Air Attaché, Brussels 1949-50; Commdr. Northern Sector Fighter Command 1950; Air Staff H.Q. Fighter Command 1952-54; Commdt. Central Fighter Establishment 1954-57; Imperial Defence Coll. 1957; Commdr. Task Force Grapple 1957-58; Asst. Chief of Air Staff 1958-61; C.-in-C. R.A.F. Germany, Commdr. 2nd Allied Tactical Air Force 1961-63; A.O.C.-in-C. Bomber Command 1963-65; C.-in-C. British Forces Far East and U.K. Mil. Rep. to SEATO 1965-67; Air Commodore 1956; Air Vice-Marshal 1958; Air Marshal 1961; Air Chief Marshal 1965; Marshal of the R.A.F. 1971; Chief of Air Staff 1967-71; Gov. and Commdr.-in-Chief of Gibraltar 1973-78; Constable and Gov. Windsor Castle 1978; Pres. The Officers Assen.; Hon. Panglima Mangku Negara; Hon. Liveryman of the Haberdashers' Company; Freeman of City of London; Chair. Trustees Imperial War Museum; Trustee R.A.F. Church St. Clement Danes, Shuttleworth Trust; a Vice-Pres. Nat. Assen. of Boys Clubs; Dir. Brixton Estate Ltd.; mem. Cttee. Royal Humane Soc.; Knight of the Order of St. John. *Address:* Norman Tower, Windsor Castle, Berks., England.

GRANFIL, Toma; Yugoslav diplomatist; b. 31 Aug. 1913, Vrsac; s. of Dr. Djoka and Jelena Granfil; m. Anica Aldan 1940; no c.; ed. Belgrade Law School; practising lawyer 1936-41; participated in Nat. Liberation Struggle 1941-45; Minister for Trade and Supplies, Serbia 1948-49; Chair. Yugoslav Section ICC, Paris 1954-65; Man. Dir. and Pres., Yugoslav Bank for Foreign Trade 1955-65; Vice-Pres. Exec. Council of Serbia 1965-67; Pres. Yugoslav-Italian Econ. Comm. 1967-71; mem. Fed. Exec. Council in charge of econ. relations with foreign countries 1967-71; Chief of Yugoslav del. for negotiations with EEC 1968-71; Amb. to U.S.A. 1971-75; several Yugoslav and foreign decorations. *Publications:* several articles and studies in econ. policy. *Address:* c/o Secretariat of Foreign Affairs, Belgrade, Yugoslavia.

GRANIER DE LILLIAC, René; French business executive; b. 1919, Nantes; ed. Ecole Polytechnique; joined Cie. Française des Pétroles 1954, responsible for Middle East Operations 1954, Sec.-Gen. 1960, Dir. 1963; Pres. Cie. Française de Raffinage 1966; Admin. Cie. Française des Pétroles 1968, Vice-Pres. 1970, Deputy Dir-Gen. Feb. 1971, Pres. Dir.-Gen. July 1971-. *Address:* Compagnie Française des Pétroles, 5 rue Michel-Ange, 75016 Paris, France.

GRANIER-DOYEUX, Marcel Alfredo; Venezuelan pharmacologist and diplomatist; b. 14 March 1916, Caracas; m.; six c.; ed. Univ. Central de Venezuela, Yale Univ., U.S.A., Univ. of Basel, Switzerland; held several teaching and medical posts in Venezuela 1936-43; Prof. of Pharmacology, Faculty of Medical Sciences, Univ. Central de Venezuela 1943-, Faculty of Pharmacy and Chemistry 1948-53; Head Inst. for Experimental Medicine, Caracas 1945-46; Head Pharmacological Service, Venezuelan Inst. for Social Security 1948-49; Librarian Acad. of Physical, Mathematical and Natural Sciences 1949-; Vice-Pres. Nat. Acad. of Medicine 1964, Pres. 1964-68; Amb. to France 1969-73; Perm. Rep. to UN 1973-74; has attended numerous int. confs., and served on many int. bodies dealing with narcotics and other drugs including Int. Narcotics Control Board, Vice-Pres. 1968-, Expert Cttee. on Drug Dependence, WHO, Vice-Chair. 1968. *Publications:* over 216 articles in national and foreign scientific journals on physiology, pharmacology, toxicology, etc., and six textbooks. *Address:* c/o Ministerio de Relaciones Exteriores, Carmelitas a Santa Capilla, Caracas, Venezuela.

GRANIT, Ragnar Arthur, M.A.G. PHIL., M.D.; Swedish neurophysiologist; b. 30 Oct. 1900, Helsinki, Finland; s. of Arthur W. Granit and Albertina H. Malmberg; m. Baroness Marguerite Bruun 1929; one s.; ed. Swedish Normallyceum, Helsinki, and Helsinki Univ.;

Docent, Helsinki Univ. 1929-37, Prof. of Physiology 1937-40; Fellow, Univ. of Pa. 1929-31; Invited Royal Caroline Inst., Stockholm 1940, Prof. of Neurophysiology 1946-67; Dir. Nobel Inst. for Neurophysiology 1945-67; Visiting Prof. Rockefeller Inst. 1956-66. St. Catherine's Coll., Oxford 1967, Fogarty Int. Cen., Nat. Inst. of Health, Bethesda, U.S.A. 1971-72, 1975, Univ. Düsseldorf 1974, Max-Planck Inst. 1976; Pres. Royal Swedish Acad. of Science 1963-65; foreign mem. Royal Soc., London, Nat. Acad. of Sciences, Washington, and several other acads.; hon. mem. American Acad. of Arts and Sciences; several prizes and hon. degrees; Nobel Prize for Physiology or Medicine 1967. *Publications:* Ung Mans Väg till Minerva 1941, Sensory Mechanisms of the Retina 1947, Receptors and Sensory Perception 1955, Charles Scott Sherrington, An Appraisal 1966, Basis of Motor Control 1970, Mechanisms Regulating the Discharge of Motoneurons 1972, The Purposive Brain 1977. *Leisure interests;* sailing, gardening. *Address:* Nobel Institute for Neurophysiology, Karolinska Institutet, Stockholm 60; 14 Eriksbergsgatan, 11430 Stockholm, Sweden. *Telephone:* 213728 (Home).

GRANÖ, Olavi Johannes, PH.D.; Finnish professor of geography; b. 27 May 1925, Helsinki; s. of Prof. Dr. Johannes G. Granö and Hilma Ekholm; m. Eeva Kaleva 1953; two d.; ed. Turku, Helsinki and Copenhagen Univs.; Asst. Prof. of Geography, Helsinki Univ. and Helsinki School of Econs. 1948-57; Assoc. Prof. of Geography, Turku Univ. 1958-61, Prof. 1962-; Pres. Archipelago Research Inst. 1965-; Pres. Finnish Nat. Research Council for Sciences 1964-69; Pres. Central Board of Research Councils (Acad. of Finland) 1970-73; mem. Science Policy Council 1964-74; Pres. Advisory Cttee. for Research of Nordic Council of Ministers 1976-; mem. Finnish Acad. of Science and Letters. *Publications:* scientific publications on geography, geology and science policy. *Address:* Department of Geography, Turku University, Turku (Office); Sirppitie 1A, 20540 Turku, Finland (Home). *Telephone:* 335599 (Office); 370640 (Home).

GRANT, Cary; British-born American actor and businessman; b. (as Archibald Alexander Leach) 18 Jan. 1904, Bristol, England; s. of Elias and Elsie (Kingdom) Leach; m. 1st Virginia Cherrill 1934 (divorced 1934), 2nd Barbara Hutton 1942 (divorced 1945), 3rd Betsy Drake 1949 (divorced), 4th Dyan Cannon 1965 (divorced 1968); one d.; ed. Fairfield Acad., Somerset; moved to U.S.A. 1921; began acting New York 1921; film actor since 1932; naturalized U.S. citizen 1942; Exec. Dir. Fabergé; Dir. Metro-Goldwyn-Mayer; official of United Services Org. 1976-. *Films include:* Blonde Venus 1933, She Done Him Wrong 1933, Alice in Wonderland 1933, I'm No Angel 1933, Sylvia Scarlett 1935, Suzy 1936, The Awful Truth 1937, Topper 1937, Bringing Up Baby 1938, Holiday 1938, Gunga Din 1939, Only Angels Have Wings 1939, In Name Only 1939, My Favourite Wife 1940, His Girl Friday 1940, The Philadelphia Story 1940, Penny Serenade 1941, Suspicion 1941, The Talk of the Town 1942, Once upon ■ Honeymoon 1942, Destination Tokyo 1943, Mr. Lucky 1943, Once upon a Time 1944, None but the Lonely Heart 1944, Arsenic and Old Lace 1944, Night and Day 1945, Notorious 1946, The Bachelor and the Bobbysoxer 1947, The Bishop's Wife 1948, Every Girl Should Be Married 1948, Mr. Blandings Builds His Dream House 1948, I Was a Male War Bride 1949, Crisis 1950, People Will Talk 1951, Monkey Business 1952, Room for One More 1952, Dream Wife 1953, To Catch a Thief 1955, The Pride and the Passion 1957, An Affair to Remember 1957, Kiss Them for Me 1957, Indiscreet 1958, Houseboat 1958, North by Northwest 1959, Operation Petticoat 1959, The Grass is Greener 1960, That Touch of Mink 1962, Charade 1963, Father Goose 1964, Walk, Don't Run 1966. *Leisure interest:* riding. *Address:* c/o Fabergé, 1345 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

GRANT, Verne E., PH.D.; American biologist; b. 17 Oct. 1917, San Francisco, Calif.; s. of Edwin E. and Bessie C. (Swallow) Grant; m. 1st Alva Day 1946, 2nd Karen S. Alt 1960; one s. one d. and one adopted d.; ed. Univ. of California (Berkeley); Visiting Investigator, Carnegie Inst. of Washington, Stanford, Calif. 1949-50; Geneticist and experimental taxonomist, Rancho Santa Ana Botanic Garden, Claremont, Calif. 1950-67; Prof. of Biology, Inst. of Life Science, Texas A. & M. Univ. 1967-68; Prof. of Biological Sciences, Univ. of Ariz. 1968-70; Dir. Boyce Thompson Arboretum, Ariz. 1968-70; Prof. of Botany, Univ. of Tex. 1970-; Nat. Research Council Fellowship 1949-50; Phi Beta Kappa Award in Science 1964; Certificate of Merit, Botanical Soc. of America 1971; mem. Nat. Acad. of Sciences; Fellow American Acad. of Arts and Sciences. *Publications:* Natural History of the Phlox Family 1959, The Origin of Adaptations 1963, The Architecture of the Germplasm 1964, Flower Pollination in the Phlox Family (with Karen Grant) 1965, Hummingbirds and Their Flowers (with Karen Grant) 1968, Plant Speciation 1971, Genetics of Flowering Plants 1975, Organismic Evolution 1977; numerous papers on plant genetics and plant evolution. *Leisure interests:* hiking, watching trains, classical music. *Address:* Department of Botany, University of Texas at Austin, Austin, Tex. 78712 (Office); 2811 Fresco Drive, Austin, Tex. 78731, U.S.A. (Home). *Telephone:* 512-471-5858 (Office).

GRANT, Walter Lawrence, PR.ENG., D.SC., M.SC., C.E. and M.I.MECH.E., A.F.R.AE.S., M.(S.A.)I.M.E.; South African engineer; b. 22 Aug. 1922, Potchefstroom, Transvaal; s. of Walter W. Grant and Petronella Peters; m. Anna Catharina Christina van Deventer; ed. Witwatersrand Technical Coll., Univs. of the Witwatersrand and Pretoria; Head, Thermodynamic Div., Nat. Mechanical Eng. Research Inst. (N.M.E.R.I.), S. African Council for Scientific and Industrial Research (C.S.I.R.) 1952-57, Dir. N.M.E.R.I. 1957-59; Chief Engineer, S.A. Atomic Energy Board 1959-64, Deputy Dir.-Gen. and Dir. of Reactor Eng. 1964-67; Dir.-Gen. S.A. Atomic Energy Board 1967-70, Deputy Pres. 1970-71; Gen. Man. Uranium Enrichment Corpn. of S.A. Ltd. 1971-; Hon. D.Sc. (Pretoria) 1974; Gold Medal, Inst. of Mechanical Eng. 1958, Havenga Prize 1966, Co-recipient Hendrik Verwoerd Award 1971 and other awards. *Publications:* 23 scientific publs. 1953-78. *Leisure interests:* photography, target shooting. *Address:* Uranium Enrichment Corporation of South Africa Ltd., P.O. Box 4587, Pretoria, Transvaal, South Africa.

GRANTHAM, Don L., C.P.A.; American business executive; b. Mattoon, Ill.; m. Mary E. Grantham; two s. two d.; ed. Mattoon High School, Eastern Illinois Coll. and Univ. of Illinois; joined Beatrice Foods Co. 1934, Regional Vice-Pres. 1961, Dir. 1963, Gen. Man. Dairy Operations 1964, Exec. Vice-Pres. 1966, Pres. and Chief Operating Officer 1972-76; Dir. La Salle Nat. Bank, Chicago. *Address:* 201 North Green Bay Road, Lake Forrest, Ill. 60045, U.S.A. *Telephone:* 312-234-1942 (Home).

GRANVILLE, Sir Keith, Kt., C.B.E., M.INST.T.; British airline executive; b. 1 Nov. 1910, Faversham; m. 1st Patricia Capstick 1933, 2nd Truda Belliss 1946; two s. five d.; ed. Tonbridge School; Trainee, Imperial Airways 1929, served in Italy, Tanganyika, Southern and Northern Rhodesia, Egypt, India; then Man. African and Middle East Div., BOAC 1947, Commercial Dir, BOAC 1954, Deputy Man. Dir. 1958-60; Chair. BOAC Associated Companies Ltd. 1960-64; Deputy Chair BOAC 1964-71, Deputy Chair. and Man. Dir. Jan. 1969, Chair. 1971-72; mem. Exec. Cttee. IATA 1972-74, Pres. 1972-73; Deputy Chair, British Airways Board 1972-74; mem. Maplin Devt. Authority 1973-74; Hon. F.R.Ae.S. *Address:* Speedbird, 1837 Chateau-D'Oex, Switzerland. *Telephone:* 029 47603 (Home).

GRANVILLE, Maurice F., M.SC.; American oil executive; b. 26 Oct. 1915, La Grange, Tex.; s. of Maurice F. and Dorathea (née von Rosenburg) Granville; m. Janet Knotts 1945; one s. one d.; ed. Univ. of Texas and Massachusetts Inst. of Technology; joined Texaco Inc. 1939, Supervisor of operations at Westville 1950, Asst. Plant Man. 1951, Man. of Texaco's chemical activities at Port Arthur 1955, Gen. Man. Petrochemical operations, New York 1958, Vice-Pres. in charge of Petrochemical Dept. 1960, Vice-Pres. in charge of Strategic Planning and Asst. to Chair. of Board 1967, Pres. and Dir. Texaco Inc. 1970, Chair. Board of Dirs. 1971-, Chief Exec. Officer Jan. 1972-; Chair. Board of Dirs., American Petroleum Inst.; mem. Board of Dirs., Metropolitan Opera Assn., Gov. Board of Corpn. of MIT, Board of Trustees, Presbyterian Hosp., New York; Dir. Fed. Reserve Bank of New York. *Address:* Texaco Inc., 135 East 42nd Street, New York, N.Y. 10017, U.S.A.

GRASS, Günter; German artist and writer; b. 16 Oct. 1927, Danzig (now Gdańsk, Poland); ed. art school; Dr.h.c. (Kenyon Coll.) 1965, (Harvard) 1976; Lyric Prize, Süddeutscher Rundfunk 1955, Group 47 Prize 1959, Literary Prize, Assn. of German Critics 1960, Georg-Büchner Prize 1965. *Publications:* Die Vorzüge der Windhühner (poems and drawings) 1955, Die Blechtrommel 1959, Gleisdreieck (poems and drawings) 1960, Katz und Maus 1961 (film 1967), Hundejahre 1963, Ausgefragt (poems) 1967, Über das Selbstverständliche 1968, Örtlich betäubt 1969, Aus dem Tagebuch einer Schnecke 1972, Dokumente zur politischen Wirkung 1972, Der Butt 1976, Das Treffen in Telgte 1979; plays: Hochwasser 1956, Noch 10 Minuten bis Buffalo 1958, Onkel, Onkel 1958, Die bösen Köche 1961, Die Plebejer proben den Aufstand 1965, Davor 1968. *Address:* Niedstrasse 13, 1 Berlin 41, Federal Republic of Germany.

GRASSBERGER, Roland, LL.D.; Austrian criminologist; b. 1905, Vienna; s. of Dr. Roland Grassberger and Mathilde Rabl; m. Isabella Hiess 1933; two s.; ed. High School and Univ. of Vienna; practice at Criminal Court 1929-30, at Police Office 1931-32; Asst. Lecturer in Criminology, Univ. of Vienna 1930, Lecturer 1931-46, Director, Inst. of Criminology, Univ. of Vienna 1946-75, Prof. of Criminal Law and Criminology 1948-75, Dean, Faculty of Law 1954-55, 1960-61, Rector of Univ. of Vienna 1962-63; Sworn Expert for Criminology at Austrian Courts 1931-. *Publications:* Die Brandlegungskriminalität 1928, Die Strafzumessung 1932, Gewerbs- und

Berufsverbrechertum in den U.S.A. 1933, Die Lösung kriminalpolitischer Probleme durch die mechanische Statistik 1946, Psychologie des Strafverfahrens 1950, 1968, Die Kriminalität des Wohlstandes 1962, Die Unzucht mit Tieren 1968. *Leisure interest:* history. *Address:* Tendlergasse 17, 1090 Vienna, Austria. *Telephone:* 42-50454.

GRASSÉ, Pierre, D. ÈS SC.; French biologist; b. 27 Nov. 1895, Périgueux; m. 1947; three c.; ed. Paris Univ.; specialized in research on cellular structure, cytology, animal sociology, evolution; Prof. Faculty of Science, Paris 1937-67; Dir. Laboratoire d'Evolution des Etres Organisés 1940-67; Founder of Laboratoire de Primatologie et écologie des Forêts equatoriales (Gabon); mem., scientific council, Nat. Council for Scientific Research; corresp. mem. Belgian Royal Acad. of Arts and Sciences; mem. Acad. of Sciences (Anatomy and Zoology) 1948, Pres. 1967; Dr. h.c. (Brussels 1946, Basel 1960, Ghent 1965, Madrid 1968, Bonn 1968, São Paulo 1968); Commdr. Légion d'honneur. *Publications:* Parasites et parasitisme, La reproduction sexuée et l'analyse expérimentale de la fécondation, Précis de biologie animale (8th edn.), Précis de zoologie (2 vols.), Biologie générale; Dir. and Editor Traité de zoologie (34 vols), Toi, ce petit Dieu (essay) 1971, L'evolution du vivant 1973, La défaite de l'amour ou le triomphe de Freud (essay) 1976, The Evolution of Living Organisms 1978, Biologie Moléculaire Mutagenèse, Evolution 1978, Petit Bréviaire de la Gastronomie Périgourdine 1978. *Address:* Laboratoire d'évolution des êtres organisés, Faculté des Sciences, 105 boulevard Raspail, 75006 Paris; 15 Place du Panthéon, 75005 Paris, France.

GRASSI, Paulo; Italian theatre director; Dir., Teatro Piccolo, Milan 1946-72; Supt., La Scala, Milan 1972-77; Chair. Board Italian State Broadcasting Corpn. (RAI) 1977-. *Address:* RAI-TV Viale Mazzini 14, 00195 Rome, Italy.

GRASSO, Ella Tambussi, M.A.; American state governor; b. 10 May 1919, Windsor Locks, Conn.; d. of James and Maria Oliva Tambussi; m. Dr. Thomas A. Grasso 1942; one s. one d.; ed. Mount Holyoke Coll.; mem. Conn. Gen. Ass. 1953-55; Sec. of State, Conn. 1958-69; mem. House of Reps. 1970-74; Gov. of Conn. Jan. 1975-; founding mem. Coalition of Northeastern Govs. 1977; Chair. New England Govs.' Conf. 1977; Dr. h.c. (Holyoke Coll., Sacred Heart Univ.); Knight Order of Merit of the Italian Repub.; Democrat. *Leisure interests:* reading, gardening, hiking. *Address:* State Capitol, Hartford, Conn. (Office); 990 Prospect Street, Hartford, Conn. (Residence); 2 Woodland Hollow, Windsor Locks, Conn., U.S.A. (Home). *Telephone:* 623-3424.

GRATZ, Leopold; Austrian politician; b. 4 Nov. 1929, Vienna; ed. Faculty of Law, Univ. of Vienna; served in Fed. Ministry for Social Admin. 1952-53; mem. Secr. Socialist Parl. Party 1953, Sec. 1957; Sec. Socialist Party Exec. 1963; mem. Bundesrat 1963-66, Nationalrat 1966-; Chair. Educational Policy Comm. of Exec. of Socialist Party 1968; Minister of Educ. 1970-71; Mayor of Vienna 1973-. *Address:* Rathaus, 1082 Vienna, Austria.

GRAUR, Alexandru; Romanian philologist; b. 9 July 1900, Botosani, Romania; m. Neaga Sion; one s.; ed. Bucharest Univ., and the Sorbonne, Paris; Prof. of Philology, Univ. Bucharest (Dean of Philological Faculty 1954-56); mem. of Praesidium of Acad. of Socialist Repub. of Romania; Gen. Man. Publishing House of the S.R.R. Acad. 1955-74; State Prize 1953, Star of Socialist Repub. of Romania, Fourth Class, Order of Labour, First Class. *Publications include:* Les consonnes géminées en latin 1929, I et V en latin 1929, Nom d'agent et adjectif en roumain 1929, Incercare asupra fondului principal lexical al limbii române 1954, Studii de lingvistică generală 1960, Etimologii românești 1963, The Romance Character of Romanian 1967, Tendințele actuale ale limbii române 1968, Alte etimologii românești 1975; contributions to Gramatica Limbii române (Vols. I-II) 1963; numerous articles in newspapers and learned periodicals in Romania, France, U.S.S.R., U.K., China, etc. *Address:* Academia R.S.R., Calea Victoriei 125, Bucharest (Office); Boul. A. Ipătescu 12, Bucharest (22), Romania (Home). *Telephone:* 50.52.08.

GRAVE, Walter Wyatt, PH.D.; British educationist; b. 16 Oct. 1901, King's Lynn; s. of the late Walter and Annie Grave; m. Kathleen Margaret Macpherson 1932; two d.; ed. Emmanuel Coll., Cambridge; Fellow of Emmanuel Coll., Cambridge 1926-66, 1972-, Tutor 1936-40; Lecturer in Spanish, Cambridge Univ. 1936-40, Senior Proctor 1938-39; Admin. Officer, Ministry of Labour and Nat. Service 1940-43; Univ. Registrary, Cambridge 1943-52; Principal, Univ. Coll. of West Indies 1953-58; Censor, Fitzwilliam House, Cambridge, Jan. 1959-66; Master, Fitzwilliam Coll., Cambridge 1966-71, Hon. Fellow 1971-; Hon. LL.D. (Cambridge and McMaster Univs.). *Address:* 18 Luard Road, Cambridge, England. *Telephone:* 47415.

GRAVEL, Mike; American politician; b. 13 May 1930, Springfield, Mass.; s. of Alphonse and Maria Gravel; m. Rita Martin 1959; one s. one d.; ed. Columbia Univ.; Real estate developer; mem. Alaska House of Reps. 1962-66; Speaker, Alaska House of Reps. 1965; U.S. Senator from Alaska 1969-; Democrat. *Publications:* Jobs and More Jobs, Citizen Power, The Pentagon Papers (editor). *Address:* U.S. Senate, Washington, D.C., U.S.A.

GRAVES, Harold N., Jr., A.B., M.S.; American journalist; b. 20 Jan. 1915, Manila, Philippines; s. of Harold N. Graves and Florida Tolbert; m. Alta F. Judy 1937; three s.; ed. Princeton and Columbia (School of Journalism) Univs.; Editorial Research Asst. for Literary Digest 1936; Assoc. Ed. Pathfinder 1936-39; Dir. Princeton Listening Center 1939-41; Asst. to Dir. Foreign Broadcast Intelligence Service, Fed. Communications Comm., Washington 1941-43; attached to U.S. Navy, Office of Strategic Services, Washington, Ceylon and Thailand 1943-45; Washington correspondent Providence (R.I.) Evening Bulletin 1946-50; Dir. of Information, Int. Bank for Reconstruction and Devt. 1950-67, Int. Devt. Assn. 1959-67, Int. Finance Corpn. 1960-67; Assoc. Dir. Devt. Services Dept. IBRD and IDA 1967-73; Exec. Sec. Consultative Group on Int. Agricultural Research 1972-75; Chair. Cttee. to Establish Int. Center for Agricultural Research on the Dry Areas 1975-77; Consultant to the Cholera Research Lab., Dacca 1977-; Trustee Int. Inst. for Social Research 1974-. *Leisure interest:* golf. *Address:* 4816 Grantham Avenue, Chevy Chase, Maryland 20015, U.S.A. *Telephone:* OLiver 4-1694.

GRAVES, Robert Ranke, F.R.A.I.; British writer; b. 24 July 1895; ed. Charterhouse and St. John's Coll., Oxford; served in France with Royal Welch Fusiliers; Prof. of English Literature Egyptian Univ. 1926; Prof. of Poetry, Oxford Univ. 1961-66; Queen's Gold Medal for Poetry 1968; Hon. mem. American Acad. of Arts and Sciences 1970-; Hon. Fellow, St. John's Coll., Oxford 1971-; now residing in the Balearic Islands. *Publications include:* Goodbye to All That 1929, But It Still Goes On 1930, No Decency Left (with Laura Riding) 1932, The Real David Copperfield 1933, I, Claudius 1934 (awarded Hawthornden Prize), Claudius the God (awarded James Tait Black Prize) 1934, Antigua, Penny Puce 1936, Count Belisarius 1938 (awarded Femina-Vie-Heureuse Stock Prize 1939), Collected Poems 1938, T. E. Lawrence to his Biographers (with Liddell Hart) 1939, Sergeant Lamb of the Ninth 1940, Proceed, Sergeant Lamb 1941, The Long Week End (with Alan Hodge) 1941, Wife to Mr. Milton 1943, The Reader Over Your Shoulder (with Alan Hodge) 1943, The Golden Fleece 1944, King Jesus 1947, Poems 1938-1947 1947, The White Goddess 1948, Watch the North Wind Rise 1949, The Common Asphodel 1949, The Golden Ass (translation) 1949, The Islands of Unwisdom 1949, Poems and Satires 1951, Poems 1953, The Nazarene Gospel Restored (with Joshua Podro) 1954, The Greek Myths 1954, Homer's Daughter 1955, Adam's Rib 1955, The Infant with the Globe (translation) 1955, Winter in Majorca 1955, The Cross and the Sword 1955, The Crowning Privilege 1955, Catacrok! 1956, Lucan's Civil Wars (translation) 1956, Suetonius' Twelve Cæsars (translation) 1956, Jesus in Rome (with Joshua Podro) 1956, They Hanged My Saintly Billy 1957, Steps: A Miscellany 1958, Collected Poems, The Anger of Achilles (adapted translation of The Iliad) 1959 (awarded Alexander Droutzkoy Gold Medal of the Nat. Poetry Soc. of America and the William Foyle Award for Poetry, London 1960), Food for Centaurs 1960, The Penny Fiddle 1961, More Poems 1961, Six Oxford Addresses 1962, Hebrew Myths (with Dr. Raphael Patai) 1963, Man Does, Woman is (poetry) 1964, Love Re-spelt (poetry) 1965, Collected Poems 1965, Majorca Observed 1965, Mammon and the Black Goddess 1965, Poetic Craft and Principle 1967, Ann at Highwood Hall 1967, The Rubaiyyat of Omar Khayaam (with Omar Ali-Shah) 1968, The Poor Boy Who Followed His Star 1968, Poems about Love 1968, Poems 1965-68 1968, The Crane Bag and Other Disputed Subjects (essays) 1969, Poems 1968-1970 1970, Poems 1970-1972 1972, Difficult Questions, Easy Answers 1972, Timeless Meeting (poems) 1973, Editor Song of Songs 1973, At the Gate (poems) 1975, Collected Poems 1975. *Address:* c/o A. P. Watt Ltd., 26-28 Bedford Row, London, W.C.1, England; Deya, Mallorca, Balearic Islands, Spain.

GRAY, Gordon, A.B., LL.D; American lawyer and politician; b. 30 May 1909; ed. Univ. of North Carolina and Yale Law School; admitted to N.Y. Bar 1934; with Carter, Ledyard & Milburn 1933-35; admitted N.C. Bar 1936; with Manly, Hendron & Womble 1935-37; mem. N.C. Senate 1938-42, 1946-47; Asst. Sec. of Army 1947-49, Under-Sec. 1949, Sec. 1949-50; Special Asst. to Pres. April-Nov. 1950; Pres. Univ. of N.C. 1950-55; Asst. Sec. of Defense for Int. Security Affairs 1955-57; Dir. Psychological Strategy Bd. 1951-52; Chair. Nat. Comm. in Financing of Hospital Care 1951-54; Dir. Office of Defense Mobilisation 1957-58; mem. Presidential Cttee. on U.S. overseas information policy 1960; Special Asst. to Pres. for

Nat. Security Affairs 1958-61; mem. President's Foreign Intelligence Adv. Board 1961-77; Chair. Summit Communications Inc.; Chair. Emer. Nat. Trust for Historic Preservation; mem. Boards American Security and Trust Co., R. J. Reynolds Industries, Inc.; Trustee Emer. Corcoran Gallery of Art; Democrat. *Address:* 1616 H Street, N.W., Washington, D.C., U.S.A.

GRAY, H.E. Cardinal Gordon Joseph, M.A.; British ecclesiastic; b. 10 Aug. 1910, Leith, Edinburgh, Scotland; s. of Francis W. Gray and Angela Gray; ed. Holy Cross Acad., Edinburgh, St. Joseph's Coll., Mark Cross, St. John's Seminary, Wonersh and St. Andrews Univ., Scotland; ordained 1935; Curate St. Andrews 1935-41; Parish Priest Hawick 1941-47; Rector Blairs Coll., Aberdeen (Nat. Junior Seminary for Scotland) 1947-51; Archbishop of St. Andrews and Edinburgh 1951-; created Cardinal 1969; Hon. D.D. (St. Andrews) 1967. *Leisure interests:* gardening, carpentry, liturgy. *Address:* Archbishop's House, 42 Greenhill Gardens, Edinburgh, EH10 4BJ, Scotland. *Telephone:* 031-447-3337.

GRAY, Harry Barkus, PH.D; American chemist; b. 14 Nov. 1935, Kentucky; m. Shirley Barnes 1957; two s. one d.; ed. Univ. of W. Kentucky, Northwestern Univ. and Univ. of Copenhagen; Asst. Prof. of Chemistry, Columbia Univ. 1961-63, Assoc. Prof. 1963-65, Prof. 1965-66; Prof. of Chem. Calif. Inst. of Tech. 1966-; mem. Nat. Acad. of Sciences; Foreign mem. Royal Danish Soc. of Science and Letters; Franklin Award 1967, Fresenius Award 1970, American Chem. Soc. Award in Pure Chem. 1970, Harrison Howe Award 1972, MCA Award 1972, Guggenheim Fellow 1972-73. *Publications:* Electrons and Chemical Bonding 1965, Molecular Orbital Theory 1965, Ligand Substitution Processes 1966, Basic Principles of Chemistry 1967, Chemical Dynamics 1968, Chemical Principles 1970, Models in Chemical Science 1971, Chemical Bonds 1973. *Leisure interests:* tennis, music. *Address:* Noyes Laboratory of Chemical Physics, California Institute of Technology, Pasadena, Calif. 91125 (Office); 1415 East California Boulevard, Pasadena, Calif. 91106, U.S.A. (Home). *Telephone:* 213-795-6811 Ext. 2500 (Office); 213-793-1978 (Home).

GRAY, Harry J., M.SC.; American business executive; b. 1919, Milledgeville Crossroads, Georgia; m.; two c.; ed. Univ. of Illinois; served as Capt. in Army in 2nd World War; fmrly. Exec. Vice-Pres., Gen. Man. Greyhound Movers (div. of Greyhound Corpn.) and Vice-Pres. and Gen. Man. Greyhound Storage Inc.; joined Litton Industries Inc. 1954, corporate Vice-Pres. 1958, Group Vice-Pres. 1961, mem. Board Dirs. 1966-71, Senior Exec. Vice-Pres. 1969-; Pres. and Chief Admin. Officer, United Aircraft Corpn. (now United Technologies Corpn.) 1971-, also mem. Board of Dirs. and Exec. Cttee., Chief Exec. Officer 1972-, Chair. Jan. 1974-; Dir. Essex Group, Otis Elevator Co., Turbo Power and Marine Systems, Inc., Pratt & Whitney Aircraft of West Virginia, Inc., United Technologies Int. Inc., Pratt & Whitney Aircraft of Canada Ltd., all subsidiaries of United Technologies Corpn. Citicorp., Citibank, N.A., of New York, Aetna Life, Casualty Co., Hartford, and Exxon Corpn., New York; Silver Star and Bronze Star for gallantry in action. *Address:* United Technologies Corporation, United Technologies Building, Hartford, Conn. 06101, U.S.A.

GRAY, Hon. Herbert E.; Canadian politician; b. 25 May 1931, Windsor, Ont.; s. of Harry and Fannie Gray; m. Sharon Sholzberg 1967; one s. one d.; ed. Victoria Public School, Kennedy, Coll. Inst Windsor, McGill Univ. and Osgoode Hall Law School, Toronto; mem. Parl 1962-; Chair. of House of Commons Standing Cttee. on Finance, Trade and Econ. Affairs 1966-68; Parl. Sec. to Minister of Finance 1968-69; Minister without Portfolio 1969-70, Minister of Nat. Revenue 1970-72; Minister of Consumer and Corporate Affairs 1972-74; Govt. Observer Inter-American Conf. of Ministers of Labour, Bogotá 1963; Vice-Chair. Del. to NATO Parl. Conf., Paris 1963; mem. Del. to Canada-France Interparl. Conf. 1966; mem. Canadian Del. to IMF and IBRD meeting 1967, Canada-U.S. Interparl. Conf. 1967-68; Liberal. *Address:* 1253 Victoria Avenue, Windsor, Ontario, Canada.

GRAY, Sir John Archibald Browne, M.A., M.B., B.CHIR., SC.D., F.R.C.P., F.R.S.; British physiologist and administrator; b. 30 March 1918, London; s. of Sir Archibald Gray, K.C.V.O., C.B.E.; and Elsie Cooper; m. Vera K. Mares 1946; one s. and d.; ed. Cheltenham Coll., Clare Coll., Cambridge and Univ. Coll. Hospital London; Service Research for MRC 1943-45; Surgeon Lieut., R.N.V.R. 1945-46; MRC Scientific Staff, Nat. Inst. for Medical Research 1946-52; Reader in Physiology, Univ. Coll. London 1952-58, Prof. of Physiology 1958-66; Second Sec. MRC 1966-68, Sec. 1968-77; mem. Scientific Staff MRC 1977-; Hon. Fellow Clare Coll., Cambridge 1976. *Publications:* numerous papers on sensory receptors and sensory nervous system. *Leisure interests:* sailing, painting, tennis. *Address:* Seaway, North Rock, Kingsand, Nr. Torpoint, Cornwall, England. *Telephone:* Plymouth 822745.

GRAY, Louis Patrick, B.SC., JU.D.; American lawyer and civil servant; b. 18 July 1916, St. Louis, Mo.; m.; four c.; ed. U.S. Naval Acad. Annapolis, Md. and George Washington Univ. Law School, Washington, D.C.; served U.S. Navy World War II, Korean War, rose to Capt. and post of Mil. Asst. to Chair., Joint Chiefs of Staff and Asst. to Sec. of Defence for Legal and Legis. Affairs; retd. from Navy 1960; admitted to bar, D.C. 1949, Conn. 1958, and has practised before U.S. Court of Mil. Appeals, Supreme Court, Court of Claims, Court of Appeals for D.C. Circuit; joined Suisman, Shapiro & Wool 1961, Partner Suisman, Shapiro, Wool, Brennan & Gray 1967-69, 1970, Suisman, Shapiro, Wool & Brennan 1973-; Founded Capital for Tech. Corpn.; Exec. Asst. to Sec. of Health, Educ. and Welfare 1969-70; Special Consultant to President's Cabinet Cttee. on Educ. 1970; Asst. Attorney Gen. for Civil Div. of Justice Dept. 1970, Head of Civil Div. 1971; Acting Dir. FBI 1972-73 (resgnd. over Watergate case); indicted April 1978 for illegal practices; mem. American Bar Assn.; active in numerous civil and community affairs; Distinguished Service Award; Navy Commendation Medal with combat "V", American Defense Service Medal with bronze "A", UN Service Medal, Submarine Combat Pin (3 stars). *Address:* Suisman, Shapiro, Wool & Brennan, 325 State Street, New London, Conn. 06320, U.S.A.

GRAYLIN, John Cranmer, C.M.G.; British (Rhodesian) lawyer and politician; b. 12 Jan. 1921, Stow Maries, Essex; s. of George John and Evelyn Gertrude (née Hull) Graylin; m. Sibella Margaretha Alheit 1946; two s. three d.; ed. Mid-Essex Technical Coll., Chelmsford, England, and Law Society School of Law, London; R.A.F., Second World War; Solicitor 1949; settled in Rhodesia 1950; law practice, Livingstone 1951-; Livingstone Municipal Councillor 1952; mem. Fed. House of Parl. 1953-63; Deputy Chair. of Cttees. 1954; Minister of Agriculture 1959-63 (resigned); Chair. Tobacco Export Promotion Council of Rhodesia 1964-67; Chair. Nat. Export Council 1967-69, Transportation Comm. 1969; Chief Exec. Assn. Rhodesian Industries 1969-; mem. of Board Agricultural Finance Corpn., Agricultural Research Council. *Leisure interests:* golf, bird watching, growing orchids, raising pheasants. *Address:* c/o Association of Rhodesian Industries, ARNI House, 109 Rotten Row, Salisbury, Zimbabwe Rhodesia.

GREATBATCH, Sir Bruce, Kt., K.C.V.O., C.M.G., M.B.E.; British colonial administrator; b. 10 June 1917, Warwicks.; ed. Malvern Coll. and Brasenose Coll., Oxford; appointed to Colonial Service, N. Nigeria 1940; war service with Royal W. African Frontier Force 1940-45; resumed colonial service, N. Nigeria 1945, Resident 1956, Sec. to Gov. and Exec. Council 1957, Senior Resident, Kano 1958; Sec. to Premier of N. Nigeria and Head of Regional Civil Service 1959; Deputy High Commr. in Kenya 1964; Gov. and C.-in-C. of the Seychelles and Commr. for the British Indian Ocean Territory 1969-73; Head of British Devt. Div. in the Caribbean 1973-. *Address:* c/o National Provincial Bank Ltd., Cornmarket Street, Oxford, England.

GRECO, Emilio; Italian sculptor; b. 11 Oct. 1913, Catania; m. Anna Greco 1969; one s.; ed. Accad. di Belle Arti, Palermo; Prof. of Sculpture Accad. di Belle Arti, Rome; mem. Accad. Nazionale di San Luca; first sculpture exhbn., Catania 1933; one-man exhbns. in Rome, Milan, Naples, London, San Francisco; Rhode Island; represented in numerous group exhbns. in Italy and abroad including 4th Rome Quadriennale, 28th Venice Biennale, Bienal São Paulo 1957, Palazzo Barberini 1958, Zwerge Garden Salzburg 1959; works in public and private collections in Rome, Milan, Venice, Florence, Trieste, Città del Capo, London, Leeds, Monaco, Hamburg, Cologne, St. Louis and Pinacoteca Vaticana; engaged on monument to Pope John XXIII 1965-67; permanent exhbn. space (Greco Garden), Hakone Open Air Museum 1974; Medaglia d'Oro of Italian Pres. 1961, Comune di Venezia prize, Venice Biennale 1956. *Major works:* Monumento a Pinocchio in Collodi 1953-56, Grande Bagnante I (Tate Gallery, London) 1956, Grande Bagnante 3 (Musée National d'Art Moderne, Paris) 1957, Testa di Donna (Pinacoteca Vaticana) 1957, Grande Figura Accoccolata (Museum of Modern Art, Kyoto, Japan) 1961, three bronze doors, Cathedral of Orvieto 1961-64, Monument to Pope John XXIII 1965-67. *Leisure interest:* music. *Address:* Viale Cortina d'Ampezzo 132, Rome, Italy. *Telephone:* 32-41-48.

GREDAL, Eva; Danish social worker and politician; b. 1927; Chair. Nat. Assn. of Social Workers 1959-67; Vice-Chair. Nat. Assn. of Women 1967-71; mem. several social welfare cttees.; mem. Board Mental Health Assn.; mem. Parl. 1971-75, 1977-; Minister for Social Affairs 1971-73, 1975-78; Social Democrat. *Address:* Østbanegade 11, 2100 Copenhagen ø, Denmark.

GREDLER-OXENBAUER, Willfried Andreas Kolomann, DR.JUR.; Austrian diplomatist; b. 12 Dec. 1916, Vienna; s. of Richard and Bertha (née Kiticsan); m. Elfriede Jirgl 1954: three d.; ed.

Vienna, Berlin and Harvard Univs.; entered foreign service 1942, served in Berlin and Belgrade 1942-45; with Österreichische Vermögensschutzgesellschaft, Vienna (banking concern) 1945-63; mem. Austrian Parl. 1953-63 (Liberal Party); Perm. Rep. to Council of Europe 1963-70; Amb. to Federal Germany 1970-77; Amb. to People's Repub. of China Jan. 1978-; Grosskreuz (Fed. Germany), Grosses Silbernes Ehrenzeichen (Austria), Grand Officer's Cross, Order of Knights of Malta. *Publications:* various articles on European and minority problems and also on human rights. *Leisure interests:* bibliophile, modern history, breeding snakes. *Address:* Austrian Embassy, Jian Guo Men Wai, Xiu Shui Nan Jie 5, Peking, China (Office); Magdalenenstrasse 4, A-1060 Vienna, Austria (Home).

GREEN, David Ezra, PH.D.; American professor of enzyme chemistry; b. 5 Aug. 1910, New York, N.Y.; s. of Herman L. and Jennie Green; m. Doris Cribb 1936; two d.; ed. Washington Square Coll. and Cambridge School of Biochemistry; Beit Memorial Research Fellow 1934-38, Senior Beit Memorial Research Fellow 1938-40; Fellow, Harvard Univ. 1940-41; Assoc. in Biochemistry, Columbia Univ. Coll. of Physicians and Surgeons 1941-46, Asst. Prof. of Biochemistry, and Dir. of Enzyme Chem. Lab. 1946-48; Prof. of Enzyme Research, and Co-Dir. Inst. for Enzyme Research, Univ. of Wis. 1948-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Paul-Lewis Labs. Award in Enzyme Chem. of the American Chemical Soc. *Publications:* Mechanisms of Biological Oxidations 1939, Molecular Insights into the Living Process 1967. *Leisure interests:* dancing, jogging. *Address:* Institute for Enzyme Research, 1710 University Avenue, Madison, Wis. 53706 (Office): 1525 Sumac Drive, Madison, Wis. 53705, U.S.A. (Home). *Telephone:* 608-262-3361 (Office): 608-233-6329 (Home).

GREEN, (James) Maurice Spurgeon, M.B.E., M.A.; British newspaper editor; b. 8 Dec. 1906, Padiham, Lancs., England; s. of Col. J. E. and Constance Green; m. Janet G. Norie 1936; two s.; ed. Rugby School and Univ. Coll., Oxford; Editor The Financial News 1934-38; Royal Artillery 1939-44; Financial and Industrial Editor The Times 1938-39, 1944-53, Asst. Editor 1953-61; Deputy Editor The Daily Telegraph 1961-64, Editor 1964-74; Pres. Inst. of Journalists 1976. *Leisure interests:* music, fishing, shooting. *Address:* The Hermitage, Twyford, Hants., England.

GREEN, Julien; American novelist; b. 6 Sept. 1900, Paris, France; s. of Edward Moon Green and Mary-Adelaide Hartridge; ed. France and Univ. of Virginia; mem. Acad. Française 1971-, Acad. Royale de Belgique, American Acad., Conseil Littéraire de Monaco, etc.; prizes include Prix Nat. des Lettres (France) 1966, Grand Prix de l'Acad. Française 1970, Harper Prize, Bookman Prize. *Publications:* Adrienne Mesurat (crowned by Acad. Française) 1927, Leviathan 1929, L'autre sommeil 1930, Le voyageur sur la terre 1925, Suite Anglaise 1926, Mont-Cinère 1926, Épaves 1932, Le visionnaire 1934, Minuit 1936, Journal 1938, Varouna 1940, Memories of Happy Days 1942, Journal 1946, Si j'étais vous . . . 1947, Journal 1949, Moira 1950, Journal 1951, Journal 1955, Le malfaiteur 1956, Le bel aujourd'hui 1958, Chaque homme dans sa nuit 1960, Partir avant le jour 1963, Mille chemins ouverts 1964, Journal 28-58, Terre lointaine 1966, Vers l'invisible 1967, Les années faciles 1970, L'autre 1971, Ce qui reste de jour 1972, Qui sommes-nous 1972, Oeuvres complètes, Pléiade I, II, III 1973, IV, V 1975, Jeunesse (memoires) 1974, Liberté (essay) 1974; plays: Sud 1953, L'ennemi 1954, L'ombre 1956, La nuit des fantômes 1976, Le mauvais lieu 1977, etc. *Address:* c/o Plon, 8 rue Garancière, Paris 6e, France.

GREEN, Marshall, B.A.; American diplomatist; b. 27 Jan. 1916, Holyoke, Mass.; s. of Addison Loomis Green and Gertrude Metcalf; m. Lispenard Seabury Crocket 1942; three c.; ed. Groton School, and Yale Univ.; Private Sec. to American Amb. to Japan 1939-41; Lieut. U.S. Navy 1942-45; U.S. Foreign Service 1945-; Third Sec., Wellington, N.Z. 1946-47; Japanese Desk Officer, State Dept., Washington 1947-50; Second, later First Sec., Stockholm 1950-55; Nat. War Coll. 1955-56; Policy Planning Adviser, Far East, State Dept. 1956-59; Minister-Counsellor, Seoul 1960-61; Consul-Gen., Hong Kong 1961-63; Deputy Asst. Sec. of State, Far East 1963-65; Amb. to Indonesia 1965-69; Asst. Sec. of State for E. Asian and Pacific Affairs 1969-73; Amb. to Australia 1973-75; Coordinator of Population Affairs 1975-79; Senior Fellow Nat. Defense Unit. 1979–; Meritorious Service Award, Nat. Civil Service League Career Service Award. *Leisure interests:* music, travel, conservation, sports. *Address:* c/o Department of State, Washington, D.C. 20520, U.S.A.

GREEN, Maurice (*see* Green, James Maurice S.).

GREEN, Paul, A.B., LITT.D.; American writer; b. 17 March 1894, Lillington, N.C.; s. of William A. Green and Betty Byrd Green; m. Elizabeth Atkinson Lay 1922; one s. three d.; ed. Univ. of North Carolina and Cornell Univ.; Second Lieut. American Expeditionary Force 1918-19; Prof. of Philosophy, Univ. of N.C. 1923-39; Pulitzer Prizewinner 1927, Guggenheim Fellow 1928-30; Prof. of Dramatic Art, Univ. of N.C. 1939-44; Pres. National Folk Festival 1934-35, National Theatre Conference 1940-42; Lecturer in Asia on American Theatre for Rockefeller Foundation and UNESCO 1951; mem. Nat. Inst. of Arts and Letters; many hon. doctorates. *Publications:* The Lord's Will 1925, In Abraham's Bosom and The Field God 1927, Lonesome Road 1926, Wide Fields 1928, In the Valley and Other Plays 1928, The House of Connelly and Other Plays 1931, The Laughing Pioneer 1932, Roll Sweet Chariot 1935, Shroud My Body Down 1935, This Body the Earth 1935, Hymn to the Rising Sun 1936, Johnny Johnson 1937, The Lost Colony 1937, The Enchanted Maze 1939, Out of the South 1939, The Highland Call 1941, Native Son (with Richard Wright) 1941, The Hawthorn Tree 1943, Forever Growing 1945, Salvation on a String and Other Stories 1946, The Common Glory 1948, Dog on the Sun 1949, Peer Gynt (adaptation) 1951, Dramatic Heritage 1953, Wilderness Road, 1956, The Founders 1957, Drama and the Weather 1958, Wings for to Fly, The Confederacy 1959, The Stephen Foster Story 1960, Five Plays of the South 1963, Plough and Furrow 1963, Cross and Sword 1966, The Sheltering Plaid 1965, Texas 1967, Sing All a Green Willow 1969, Home to My Valley 1970,Trumpet in the Land 1972, The Honeycomb 1972, Drumbeats in Georgia 1973, Land of Nod and Other Stories 1976, Louisiana Cavalier 1976, We the People 1976, The Lone Star 1977, Palo Duro (Son et Lumière) 1978; also numerous screen plays. *Address:* Old Lystra Road, Chapel Hill, N.C. 27514, U.S.A. *Telephone:* 919-933-8581.

GREENBERG, Joseph Harold, PH.D.; American professor of anthropology; b. 28 May 1915, Brooklyn, N.Y.; s. of Jacob Greenberg and Florence Pilzer Greenberg; m. Selma Berkowitz 1940; ed. Columbia Coll. and Northwestern Univ.; Army service in Signal Intelligence Corps 1940-45; Instructor and Asst. Prof. Univ. of Minn. 1946-48; Asst., Assoc., then Prof., Columbia Univ. 1948-62; Prof. of Anthropology, Stanford Univ. 1962-, Ray Lyman Wilbur Distinguished Prof. of Social Sciences 1971; First Distinguished Lecturer, American Anthropological Assn. 1970; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences 1972-, American Philosophical Soc. 1975; Pres. Linguistic Soc. of America 1977; Haile Sellassie I Prize for African Research 1967. *Publications:* The Languages of Africa 1963, Universals of Language (Editor) 1963, Anthropological Linguistics: An Introduction 1968, Language Universals—A Research Frontier (in Science) 1969, The Indo-Pacific Hypothesis (in Current Trends in Linguistics Vol. 8, Editor Thomas Sebeok) 1970, Language, Culture and Communication 1971, New Invitation to Linguistics 1977. *Leisure interest:* playing the piano. *Address:* Department of Anthropology, Stanford University, Stanford, Calif. 94305 (Office); 860 Mayfield, Stanford, Calif. 94305, U.S.A. (Home). *Telephone:* 415-231-2300, Ext. 4547 (Office); 415-321-9488 (Home).

GREENBOROUGH, Hedley Bernard, C.B.E., F.B.I.M., F.INST.PET.; British oil executive; b. 7 July 1922, Kingston-upon-Thames; s. of William and Elizabeth Marie Greenborough (née Wilson); m. Gerta Ebel 1951; one s.; ed. Wandsworth School and U.S. Navy, Pensacola, Florida, U.S.A.; joined Asiatic Petroleum Co., London 1939; with Shell Oil Calif., U.S.A. 1946-47; with Shell Brazil 1947-57; Exec. Vice-Pres. Shell Argentina 1960-66; Far East Area Coordinator, Shell Int., London 1966-69; Man. Dir. of Marketing, Shell-Mex and B.P. Ltd. 1969-71, Chief Exec., Man. Dir. 1971-75; Deputy Chair. Jan. 1976-, Man. Dir. Shell U.K. Ltd. 1976-78; Vice-Chair. British Chamber of Commerce, Argentina 1962-66, British Road Fed. 1969-75; Chair. U.K. Oil Pipelines Ltd. 1971-77, U.K. Oil Industry Emergency Cttee. 1971-, U.K. Petroleum Industry Advisory Cttee. 1971-77; Gov. Ashridge Man. Coll. 1972-, Chair. Govs. 1977-; mem. CBI Council and Econ. Policy Cttee. 1972-, Deputy Pres. 1977, Pres. of CBI 1978-; Pres. Inst. of Petroleum 1976-78, Inc. Soc. of British Advertisers 1976-78; mem NEDC July 1977-. *Leisure interests:* golf, travel, music. *Address:* Shell-Mex House, Strand, London, W.C.2. (Office); 30 Burghley House, Oakfield, Somerset Road, Wimbledon Common, London, S.W.19, England (Home). *Telephone:* 01-438 3111 (Office).

GREENE, Graham (brother of Sir Hugh Greene, *q.v.*), C.H.; British writer; b. 2 Oct. 1904; ed. Berkhamsted School and Balliol Coll., Oxford; Sub-Editor The Times 1926-30; Lit. Editor Spectator 1940-41; Foreign Office 1941-44; Dir. Eyre and Spottiswoode (Publishers) Ltd. 1944-48; Dir. of The Bodley Head 1958-68; Hon. Litt.D. (Cambridge) 1962, (Oxford) 1979, Hon. D.Litt. (Edinburgh) 1967; Hon. Fellow, Balliol Coll., Oxford 1963; Chevalier Légion d'honneur 1969, Shakespeare Prize (Hamburg) 1968. *Publications:* Babbling April 1925, The Man Within 1929, The Name of Action 1930, Rumour at Nightfall 1931, Stamboul Train 1932, It's a Battlefield 1934, England made me 1935, Journey without Maps,

A Gun for Sale 1936, Brighton Rock 1938, The Lawless Roads, 1939, The Confidential Agent 1939, The Power and the Glory 1940 (Hawthornden Prize), British Dramatists 1942, The Ministry of Fear 1943, Nineteen Stories 1947, The Heart of the Matter 1948, The Lost Childhood and Other Essays 1951, The End of the Affair 1951, Essais Catholiques 1953, Twenty-one Stories 1954, Loser Takes All 1955, The Quiet American 1955, Our Man in Havana 1958, A Burnt-Out Case 1961, In Search of a Character: Two African Journals 1961, A Sense of Reality 1963, The Comedians 1966, May We Borrow Your Husband? And Other Comedies of the Sexual Life (short stories) 1967, Collected Essays 1969, Travels with my Aunt 1969, A Sort of Life (autobiography) 1971, The Honorary Consul 1973, Lord Rochester's Monkey (biography) 1974, The Human Factor 1978. *Plays:* The Living Room 1953, The Potting Shed 1957, The Complaisant Lover 1959, Carving a Statue 1964, The Return of A. J. Raffles 1975. *Screenplays:* Brighton Rock 1948, The Fallen Idol 1948, The Third Man 1949, Our Man in Havana 1960, The Comedians 1967. *Children's Books:* The Little Train 1947, The Little Fire Engine 1950, The Little Horse Bus 1952, The Little Steamroller 1953. *Address:* c/o The Bodley Head, 9 Bow Street, London, W.C.2, England.

GREENE, Sir Hugh (Carleton), K.C.M.G., O.B.E.; British publisher and broadcasting official; b. 15 Nov. 1910, Berkhamsted; s. of the late Charles and Marion Greene; brother of Graham Greene (*q.v.*); m. 1st Helga Guinness 1934, two s.; m. 2nd Elaine Shaplen 1951, two s.; m. 3rd Tatjana Sais 1970; ed. Berkhamsted School and Merton Coll., Oxford; Newspaper corresp. in Germany 1934-39; expelled from Germany 1939; corresp. in Poland 1939; R.A.F. 1940; Head of German Service, BBC 1940-46; Controller of Broadcasting, British Zone, Germany 1946-48; Head of East European Service, BBC 1949-50; Head of Emergency Information Service, Malaya 1950-51; Asst. Controller Overseas Service, BBC 1952-55, Controller 1955-56; Dir. of Admin., BBC 1956-58; Dir. of News and Current Affairs 1958-59; Dir.-Gen. BBC 1960-69; mem. Board of Govs., BBC 1969-71; Chair. The Bodley Head July 1969-, Greene King Brewery 1971-78; Vice-Pres. European Broadcasting Union 1963-68; Hon. D.C.L. (East Anglia) 1969, Dr. h.c. (Open Univ. and York 1973); Grand Cross of the German Order of Merit 1977. *Publications:* The Spy's Bedside Book 1957, The Third Floor Front 1969, The Rivals of Sherlock Holmes (Editor) 1970, More Rivals of Sherlock Holmes' (Editor) 1971, The Future of Broadcasting in Britain 1972, The Crooked Counties (Editor) 1973, The American Rivals of Sherlock Holmes (Editor) 1976. *Address:* Earls Hall, Cockfield, Bury St. Edmunds, Suffolk, England.

GREENE OF HARROW WEALD, Baron (Life Peer), cr. 1974, of Harrow in Greater London; **Sidney Francis Greene,** Kt., C.B.E.; British trade unionist; b. 12 Feb. 1910, London; s. of Frank J. Greene and Alice Kerrod; m. Masel E. Carter 1936; three d.; ed. in London; Gen. Sec. Nat. Union of Railwaymen 1957-74; mem. Gen. Council, TUC 1957-75, Chair 1969-70; Chair. TUC Econ. Cttee. 1968-; mem. Nat. Econ. Devt. Council 1962-75; mem. Advisory Council, Export Credits Guarantee Dept. 1967-70; Dir. Bank of England 1970-, Times Newspaper Ltd. 1974-, Rio Tinto Zinc Corpn. 1975-, Nat. Freight Corpn. 1973-, Southern Electricity Bd. 1964-, Trade Union Unit Trust. *Leisure interests:* cricket, gardening. *Address:* 26 Kynaston Wood, Boxtree Road, Harrow Weald, Middx., England.

GREENEWALT, Crawford Hallock, B.S.; American executive; b. 16 Aug. 1902, Cumington, Mass.; s. of Frank Lindsay and Mary Hallock Greenewalt; m. Margaretta Lammot du Pont 1926; two s. one d.; ed. William Penn Charter School, Philadelphia and Massachusetts Inst. of Technology; joined E. I. du Pont de Nemours and Co. 1922; Pres. du Pont de Nemours 1948-62, Chair. of Board 1962-67, Chair. of Finance Cttee. 1967-74; Dir. Morgan Guaranty Trust Co. 1963-72, Boeing Co. 1964-74; Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences, American Philosophical Soc., M.I.T. Corpn.; Trustee, Carnegie Inst. Washington, D.C.; Regent, Smithsonian Inst. 1956-74; many hon. degrees; Chemical Industry Award 1952, William Proctor Prize (A.A.A.S.) 1957, Medal for Advancement of Research (American Soc. of Metals) 1958. *Publications:* The Uncommon Man 1959, Hummingbirds 1960, Bird Song: Acoustics and Physiology 1969. *Address:* Greenville, nr. Wilmington, Del., U.S.A. (Home).

GREENFIELD, James Lloyd; American newspaper executive; b. 16 July 1924; ed. Harvard Univ.; Cleveland Press 1939-41; Voice of America 1949-50; Corresp. for Time Magazine, Korea and Japan 1951-55, Bureau Chief, New Delhi 1956-57, Deputy Bureau Chief, London 1958-61; Chief Diplomatic Corresp. Time-Life, Washington, D.C. 1961-62; Deputy Asst. Sec. of State, Public Affairs 1962-64; Asst. Sec. of State, Public Affairs 1964-66; Asst. Vice-Pres. Continental Air Lines, Los Angeles, Vice-Pres. Westinghouse Broadcasting Co. 1968-69; Foreign Editor New York Times 1969-77, Asst. Man. Editor 1977. *Address:* 850 Park Ave., New York, N.Y. 10021, U.S.A.

GREENFIELD, Julius Macdonald, C.M.G., Q.C., LL.B., B.C.L.; British (Rhodesian) retd. lawyer and politician; b. 13 July 1907, Boksburg, Transvaal, S. Africa; s. of Rev. C. E. and Mrs. Greenfield; m. Florence M. Couper 1935; two s. one d.; ed. Milton School, Bulawayo, and Univs. of Cape Town and Oxford; Rhodesian Rhodes Scholar 1929; admitted to practise as advocate of High Court of S. Rhodesia 1933, practised at Bulawayo till 1950; elected to S. Rhodesia Parl. (United Party) 1948; Minister of Justice and Internal Affairs 1950-53; elected to Parl. of Fed. of Rhodesia and Nyasaland (Fed. Party) 1953; Minister of Home Affairs and Educ. 1953-55; Minister of Educ. and Law 1955-58; Minister of Law 1958-62, of Law and Home Affairs 1962-63; returned to law practice 1964; Puisne Judge of High Court of Rhodesia 1968-74. *Publications:* Instant Crime 1976, Testimony of a Rhodesian Federal. *Leisure interest:* building in stone. *Address:* 92 Kommetjie Road, Fish Hoek 7975, Cape, South Africa. *Telephone:* 82-2907 (Home).

GREENHALGH, Jack, M.A., F.B.I.M.; British company executive; b. 25 July 1926; s. of Herbert Greenhalgh and Alice May (née Clayton); m. Kathleen Mary Hammond 1951; two s. two d.; ed. Manchester Grammar School, Trinity Coll., Cambridge; Marketing Dept., Procter and Gamble Ltd., Newcastle upon Tyne 1950-59; Marketing Dir., Eskimo Foods Ltd., Cleethorpes 1959-64; Dir. of Continental Operations, Compton Advertising Inc., New York, N.Y. 1964-65; Man. Dir. of various subsidiaries of Cavenham Ltd. 1965–; Man. Dir. Cavenham Ltd. 1968, Vice-Chair. 1974-. *Leisure interests:* golf, sailing. *Address:* Cavenham House, Millington Road, Hayes, Middx. (Office); Halfacres, 3 Henley Road, Marlow, Bucks., England (Home).

GREENHILL OF HARROW, Baron (Life Peer), cr. 1974, of the Royal Borough of Kensington and Chelsea; **Denis Arthur Greenhill,** G.C.M.G., O.B.E.; British diplomatist; b. 7 Nov. 1913, Woodford, Essex; s. of James and Susie Greenhill; m. Angela McCulloch 1941; two s.; ed. Bishop's Stortford Coll. and Christ Church, Oxford; served in Second World War in Egypt, N. Africa, Italy, India and S.E. Asia, demobilized with rank of Col.; in British Foreign Service 1946-, in Sofia 1947-49, Washington, D.C. 1949-52; at Foreign Office 1952-54; at Imperial Defence Coll. 1954; U.K. Del. to NATO, Paris 1955-57, to Singapore 1957-59; Counsellor, Washington, D.C. 1959-62, Minister 1962-64; Asst. Under-Sec. of State, Foreign Office 1964-66; Deputy Under-Sec. of State 1966-69; Perm. Under-Sec. of State for Foreign and Commonwealth Affairs 1969-73; Gov. BBC 1973-; led British mission to Rhodesia Feb. 1976; Dir. S. G. Warburg, Clerical, Medical and Gen. Assurance, Wellcome Foundation, BAT Industries Ltd., Hawker Siddeley Group 1974, British Petroleum 1973-78; Gov. BUPA 1978-; Chair. King's Coll. Hospital Medical School; Trustee Rayne Foundation; mem. Security Comm., Leyland Int. (resigned from main Board 1977), Int. Advisory Cttee., First Nat. Bank of Chicago. *Address:* 25 Hamilton House, Vicarage Gate, London, W.8, England. *Telephone:* 01-937 8362.

GREENSPAN, Alan, M.A.; American economist; b. 6 March 1926, N.Y.; s. of Herbert Greenspan and Rose Goldsmith; ed. New York and Columbia Univs. Pres., Townsend-Greenspan & Co. Inc., econ. consultants 1954-74; mem. Nixon for Pres. Cttee. 1968-69; mem. Task Force for Econ. Growth 1969, Comm. on an All-Volunteer Armed Force 1969-70, Comm. on Financial Structure and Regulation 1970-71; Consultant to Council of Econ. Advisers 1970-74, to U.S. Treasury 1971-74, to Fed. Reserve Board 1971-74; Chair. Council of Econ. Advisers 1974-76; mem. Sec. of Commerce's Econ. Comm.'s Cen. Market System Cttee. 1972, G.N.P. Review Cttee. of Office of Man. and Budget, Time Magazine's Board of Economists 1971-74, 1977-; Senior Adviser Brookings Inst. Panel on Econ. Activity 1970-74; Adjunct Prof. Graduate School of Business Man; New York 1977-; Past Pres., Fellow, Nat. Assn. of Business Economists; Dir. Trans World Financial Co. 1962-74, Dreyfus Fund 1970-74, Gen. Cable Corpn. 1973-74, 1977-, Sun Chemical Corpn. 1973-74, Gen. Foods Corpn. 1977-, J. P. Morgan & Co. 1977-, Mobil Corpn. 1977-; Jefferson Award 1976; William Rutler Memorial Award 1977. *Leisure interest:* golf. *Address:* 1 New York Plaza, New York, N.Y. 10004, U.S.A.

GREENSTEIN, Jesse Leonard, PH.D.; American astronomer; b. 15 Oct. 1909, New York; s. of Maurice Greenstein and L. Feingold; m. Naomi Kitay 1934; two s.; ed. Horace Mann School for Boys and Harvard; engaged in real estate and investments 1930-34; Nat. Research Fellow 1937-39; Assoc. Prof., Yerkes Observatory, Univ. of Chicago 1939-48; Research Assoc. McDonald Observatory, Univ. of Tex. 1939-48; Mil. Researcher under Office of Scientific Research and Devt. (optical design), Yerkes 1942-45; Prof. and Exec. Officer

for Astronomy 1948-72, Calif. Inst. of Tech.; Lee A. DuBridge Prof. 1970- and staff mem. Mount Wilson and Palomar Observatories (now Hale) 1948-; mem. Owens Valley Radio Observatory staff; Chair. Faculty of Inst. 1965-67; Visiting Prof. Inst. for Advanced Studies, Princeton 1964 and 1968-69, Princeton Univ., Univ. of Hawaii, Nordisk Inst. for Teoretisk Atomfysik, Copenhagen, Bohr Inst.; mem. Nat. Acad. of Sciences, American Philosophical Soc., Int. Astronomical Union, Board of Overseers, Harvard Coll. 1965-71, Editorial Board Astrophysical Journal; Chair. Board Assoc. Univs. Research in Astronomy 1974-77; Consultant to Nat. Science Foundation, Nat. Aeronautics and Space Admin.; Chair. Nat. Acad. of Sciences Survey of Astronomy; Russell Lecturer, Astronomical Soc.; Calif. Scientist of Year Award 1964; Bruce Medal, Astronomical Soc. of Pacific; Distinguished Public Service Award; Gold Medal, Royal Astronomical Soc. *Publications:* Stellar Atmospheres (Editor), many technical papers. *Leisure interests:* art, travel, wine. *Address:* California Institute of Technology, Pasadena, California, U.S.A. *Telephone:* 213-795-6811.

GREENWALD, Joseph Adolph, LL.B.; American economist and diplomatist; b. 18 Sept. 1918, Chicago, Ill.; s. of Jacob and Lena (née Corman) Greenwald; m. Mary V. Doyle 1942; two s. one d.; ed. Univ. of Chicago and Georgetown Univ. Law School; Economist, War Production Board 1942-43; Int. Economist, Dept. of State 1947; admitted D.C. Bar 1951; U.S. Resident Rep., Int. Econs. Orgs., Geneva 1952-55; Chief, Commercial Policy Branch, Dept. of State 1955-58; First Sec. American Embassy, London 1958-63; Dir. Office Int. Trade, Dept. of State 1963-65; Deputy Asst. Sec. of State for Int. Trade Policy and Econ. Defense 1965-68; Leader U.S. Del., 2nd UN Conf. on Trade and Devt., New Delhi 1968; Acting Asst. Sec. of State for Econ. Affairs 1968-69; U.S. Perm. Rep. to OECD 1969-72; Amb. to EEC 1972-75; Asst. Sec. of State for Econ. and Business Affairs 1976-77; Vice-Pres., Int. Planning, The Bendix Corpn. 1977-79; Pres. Bendix Japan Ltd., Vice-Pres., Far East, The Bendix Corpn. 1979-. *Address:* 1661 Crescent Place, N.W., Washington, D.C. 20009, U.S.A.; and Town House Akasaka, No. 5-25, Akasaka 8 chome, Minato-Ku, Tokyo 107, Japan.

GREENWOOD, Allen, C.B.E., J.P.; British business executive; b. 4 June 1917, London; ed. Cheltenham Coll. and Coll. of Aeronautical Engineering; joined Vickers-Armstrongs Ltd. 1939; R.N.V.R. (Fleet Air Arm) 1942-46; Service Man., Vickers-Armstrongs (Aircraft) Ltd. 1953, Dir. 1960; Sales and Service Man., British Aircraft Corpn. Ltd. 1961, Deputy Chair. 1972-75, Chair. 1976-77; Deputy Chair. British Aerospace 1977-; one of Airframe Dirs. for Concorde 1961; Dir. British Aircraft Corpn. (Operating) Ltd. 1964, British Aircraft Corpn. (U.S.A.) Inc. 1964 (Chair. 1976-), SEPECAT S.A. 1966, Remploy Ltd. 1968 (Vice-Chair. 1972), Panavia Aircraft G.m.b.H. 1969 (Chair. 1969-72), British Aircraft Corpn. (Australia) Pty. Ltd. 1972; Europlane Ltd. 1973, Industrial Advisers to the Blind 1974; Pres. Soc. of British Aerospace Cos. Ltd. 1970-72, Assen. Européenne des Constructeurs de Matériel Aérospatiel 1974. *Address:* British Aerospace, Weybridge K13 0RN, Surrey, England. *Telephone:* Weybridge 45522.

GREENWOOD, Ivor John, Q.C., LL.B.; Australian politician; b. 15 Nov. 1926, Melbourne; m.; two c.; ed. Scotch Coll., Melbourne; admitted to Victorian Bar 1951; Vice-Pres. Victorian State Exec. of Liberal Party 1966-68; Senator from Victoria 1968-; Minister for Health March-Aug. 1971; Attorney-Gen. 1971-72; Deputy Leader of Opposition in the Senate 1972-75; Attorney-Gen. and Minister for Police and Customs Nov.-Dec. 1975, Minister for Environment, Housing and Community Devt. Dec. 1975-July 1976; Deputy Leader of the Govt. in the Senate; Liberal. *Address:* The Senate, Canberra, A.C.T.; and 8 Marlborough Avenue, Camberwell, Victoria 3124, Australia.

GREENWOOD OF ROSSENDALE, Baron (Life Peer), cr. 1970, of East Mersea in the County of Essex; **Anthony Greenwood,** P.C., J.P., D.L., M.A.; British politician; b. 14 Sept. 1911, Leeds; s. of Rt. Hon. Arthur Greenwood, C.H.; m. Gillian Crawshaw-Williams 1940; two d.; ed. Kingston Grammar School, Merchant Taylors' School, and Balliol Coll., Oxford; M.P. 1946-70; Vice-Chair. Parl. Labour Party 1950-51; mem. Nat. Exec. Cttee. Labour Party 1954-70; mem. Bureau, Socialist Int. 1960-70; Nat. Vice-Chair. Labour Party 1962-63, Chair. 1963-64; Sec. of State for the Colonies 1964-65; Minister of Overseas Devt. 1965-66; Minister of Housing and Local Govt. 1966-70; Deputy Speaker House of Lords 1977-; Chair. House of Lords Select Cttee. on the European Communities 1977-; Pro-Chancellor Univ. of Lancaster 1972-78; Trustee of several educ. trusts; Dir. of several companies; Vice-Pres. Building Socs. Assen., Commonwealth Parl. Assen. (British branch); Pres. Cremation Soc. 1970-, Assen. of Metropolitan Authorities 1972-, River Thames Soc. 1972-78, London Soc. 1972-76, British Trust for Conservation Volunteers 1975-78; Chair. U.K. Housing Assen. 1972-, Local Govt. Staff Comm. for England 1972-77, Housing Centre 1973-75 (Pres. 1975-); Deputy Chair. Housing Corpn. 1974-77; Chair. Local Govt. Training Board 1975-; Conciliator Int. Centre for Settlement of Investment Disputes 1975-; mem. of Board, Commonwealth Devt. Corpn. 1970-77, Court of Univ. of Essex, Cen. Lancs. Devt. Corpn. 1972-76, Advisory Board on Redundant Churches 1975-; Deputy Lieut. for Essex 1975-; Fellow, Royal Soc. of Arts, Ancient Monuments Soc. *Leisure interest:* looking at churches. *Address:* 38 Downshire Hill, Hampstead, London, N.W.3; The Old Ship Cottage, East Mersea, Colchester, England. *Telephone:* 01-435 7344; 020638-3249.

GREER, Germaine; Australian feminist and author; b. 29 Jan. 1939, Melbourne; ed. Melbourne and Sydney Univs. and Cambridge Univ., England; Lecturer in English; Warwick Univ. 1968-73; numerous television appearances and public talks including discussion with Norman Mailer (*q.v.*) in The Theatre of Ideas, New York. *Publications:* The Female Eunuch 1970; articles for Listener, Spectator, Esquire, Harper's Magazine, Playboy and other journals. *Address:* c/o Curtis Brown Ltd., 1 Craven Hill, London, W2 3EW, England.

GREFFET, Philippe Jean; French educational expert and writer; b. 22 March 1924, Lyons; s. of Edouard and Claudine (Imbert) Greffet; m. Nicole Courault 1952; one s. two d.; ed. Ecole Normale and Univ. of Lyons; Teacher, Lyons 1947-49; Dir. Alliance Française Sante Fé, Argentina 1949-51; Inspecteur Gen. of Alliances Françaises in Argentina 1951-53; Sec.-Gen. in Brazil 1953-60; Corresp. Le Monde 1956-60; teacher, Lyon then Lons le Saunier 1961-67; Adviser for cultural affairs, tech. and scientific co-operation, Embassy in Montevideo 1967-71, in Buenos Aires 1971-76; Tech. Adviser to High Cttee. for the French Language 1976-78; Sec.-Gen. Alliance Française, Paris 1978-; Prof. h.c. (Buenos Aires); Literature Prize of Rio de Janeiro; Chevalier, Legion d'honneur, Ordre national du Merite, Ordre national des Arts et des Lettres, Officier, Ordre des Palmes academiques, Commdr. Order of May (Argentina), Officer, Order of the Southern Cross (Brazil). *Publications:* Rio de tous les coeurs 1957, numerous books in Spanish. *Address:* 101 boulevard Raspail, 75270 Paris Cedex 06, France.

GREGH, François-Didier; French public servant (retd.); b. 26 March 1906, Paris; s. of Fernand Gregh (mem. Acad. Française) and Harlette Hayem; m. Adé Barbier 1947; ed. Lycée Janson-de-Sailly, Faculty of Law and Letters, Ecole Libre des Sciences Politiques, Paris; Insp. of Finances 1930-35, Financial Controller 1935-43; Dir. of the Budget, Ministry of Finance 1944-49; Dir. Crédit Lyonnais 1949-53; Dir. of IBRD (Asian and Middle East Div.) 1953-55; Asst. Sec.-Gen. for Economy and Finance, NATO 1955-59, Deputy Sec.-Gen. 1959-67; Insp.-Gen. of Finances (French Govt.) 1959-69, 1972-76; Minister of State, Principality of Monaco 1969-72; Commdr. Légion d'honneur, several foreign decorations. *Address:* 9 rue Michel-Ange, 75016 Paris, France. *Telephone:* AUT 79-24.

GRÉGOIRE, Henri; Belgian classical and Byzantine scholar; Prof. of Greek and Byzantine History, Brussels Univ.; Sather Prof. Univ. of Calif. 1938; Co-Founder Ecole Libre des Hautes Etudes N.Y.; Vice-Dean Faculty of Letters 1941-45, Pres. 1944; Asst. Prof. of History, New School for Social Research, N.Y.; Pres. Assen. Int. des Byzantinistes; Editor Byzantion, Corpus Bruxellense Historiae Byzantine, La Nouvelle Clio, Ta Kyprin; Co-Founder and Joint Editor of Le Flambeau 1918-; Renaissance 1942-; Pres. Centre Nat. de Recherches byzantines, and Editor of its publs.; assoc. mem. Acad. des Inscriptions et Belles Lettres, Paris, and Accad. Nazionale dei Lincei, Rome; mem. Brussels, Bucharest, Copenhagen, Mainz, Munich and Palermo Acads., Medieval Acad. of America, Slav Insts. of Prague and of Belgrade; Chair. Acad. of Mythological and Religious Research, Bulgarian Historical Society, Byzantine Insts. of Providence, R.I., Paris and Istanbul, etc.; Dr. h.c. (Paris, Athens, Thessalonika, Algiers, Sofia, Cairo). *Publications:* Digenis Akritas, the Byzantine Epic in History and Poetry (with P. Morphopoulos) 1942, Dans la montagne grecque 1948, Asklepios, Apollon Smintheus et Rudra (with R. Goossens and M. Mathieu), La base historique de l'épopée médiévale 1950, Les Persécutions dans l'Empire romain (with P. Orgels, J. Moreau and A. Maricq) 1951, Euripides Tragédies III-VII, Les perles de la poésie slave 1960. *Address:* 45 rue des Bollandistes, Brussels, Belgium.

GRÉGOIRE, Pierre; Luxembourg politician; b. 9 Nov. 1907; ed. secondary and higher education, Luxembourg. Admin. career 1929-33; Editorial staff Luxemburger Wort 1933-59; Minister of the Interior and Transport 1959-64, of Nat. Educ. and Public Service 1964-67, of Cultural and Religious Affairs 1964-68, of Foreign Affairs and Defence 1967-69; Pres. Assen. of Catholic Writers; in concentration camp 1940-45; mem. Chamber of Deputies, Pres. until 1974; numerous Luxembourg and foreign decorations. *Publications:* Drucker, Gazettisten und Zensoren (4 vols.) 1964, Le

baiser d'Europe 1967, and about sixty other works (literary, poetry, history, criticism, etc.). *Address:* Strassen, 177 route d'Arlon, Luxembourg. *Telephone:* Strassen 31598.

GREGOR, Ján, ING.; Czechoslovak economist; b. 10 May 1923, Turčianska Štiavnička; ed. School of Economics, Bratislava; Head of Dept., Commr.'s Office for Light Industry 1951-52; 'Deputy Commr. of Trade 1953-54; Deputy Commr. of Consumer Goods Industry 1956-60; Head of Dept., Slovak Planning Comm. 1960-63, Deputy Chair. 1963-69; Deputy Minister of Planning, Slovak Socialist Repub. 1969-70; Minister of Industry, Slovak Socialist Repub. 1970-71; Deputy Prime Minister of Č.S.S.R. 1971-76; Deputy to House of Nations, Fed. Ass. 1971-76; Chair. Czechoslovak-Romanian Govt. Comm. for Econ. and Scientific Tech. Co-operation 1973-76; Chair. Czechoslovak section of Czechoslovak-Vietnamese Cttee. for Econ. and Scientific Tech. Co-op. 1974-76; Vice-Premier Slovak Socialist Repub. 1976-; Deputy of Slovak Nat. Council 1976-; Order of Labour 1970, Order of Victorious February 1973. *Address:* Gottwaldovo nám 45, Bratislava, Czechoslovakia.

GREGORIOS, Metropolitan Paul, M.DIV., S.T.M., D.TH., F.I.I.C.S. (formerly **Verghese, Rev. Thadikkal Paul**); Indian ecclesiastic, educationist and writer; b. 9 Aug. 1922, Tripunithura, India; s. of T. P. Piely and Mrs. Aley Piely; ed. Goshen Coll., Princeton and Yale Univs., Keble Coll., Oxford, Serampore Univ.; Journalist 1937-42; with Indian Posts and Telegraphs Union 1942-47; taught in govt. schools in Ethiopia 1947-50; studied in U.S.A. 1950-54; Gen. Sec. Orthodox Christian Student Movement of India 1955-57; Hon. Lecturer in Religion, Union Christian Coll., Alwaye 1954-56; Special Staff Asst. H.I.M. Haile Sellassie I 1956-59; Chief Adviser Haile Sellassie Foundation 1959; Assoc. Gen. Sec. and Dir. of the Div. of Ecumenical Action, WCC, Geneva 1962-67; Principal, Syrian Orthodox Theological Seminary, Kottayam, Kerala 1967-; consecrated as Bishop 1975; Chair. Church and Society Working Group, WCC; Metropolitan of Delhi 1976-; Vice-Chair. Kerala Philosophers' Congress, Theological Comm., Christian Peace Conf., Prague; mem. various WCC and Christian Peace Conf. comms. and cttees.; fmr. leader WCC del. to UNESCO; Fellow, Int. Inst. of Community Service; Hon. TH.D. from Leningrad Theological Acad., Lutheran Theological Acad., Budapest; Order of St. Vladimir (U.S.S.R.), etc. *Publications:* Joy of Freedom 1967, The Freedom of Man 1970, Be Still and Know 1971, Koptisches Christentum 1973, Die Syrischen Christen in Indien 1974, Authority and Freedom 1974, The Human Presence 1978. *Leisure interests:* boating, mountain hikes. *Address:* St. Mary's Orthodox Church, C111 S.D.A. Hauz Khas, New Delhi 110016, India. *Telephone:* Delhi 616160.

GREGORY, Horace Victor, B.A.; American writer; b. 10 April 1898, Milwaukee, Wis.; s. of Henry Bolton Gregory and Anna Catherine Henkel; m. Marya Zaturenka (poet, winner of Pulitzer Prize for Poetry 1938) 1925; one s. one d.; ed. Milwaukee and Univ. of Wisconsin; Freelance in New York 1924-; mem. English faculty, Sarah Lawrence Coll., Bronxville 1934-62; Lecturer New School for Social Research 1955-56; elected mem. Inst. of Arts and Letters 1964; Hon. D.Lit. (Univ. of Wis.) 1977; awarded Young Poet's Prize for Poetry (Chicago) 1928, Helen Haire Levinson Poetry Award 1934, Russell Loines Award (American Inst. Arts and Letters) 1942, Guggenheim Fellowship 1951, Union League Civic and Arts Foundation Prize for Poetry (Chicago) 1951, Acad. of American Poets Award 1962, Bollingen Prize Yale 1965, Ingram Merrill Foundation Award for work as poet, critic and translator 1978; Research 1955-56; contrib. to New Republic, New Masses, Herald Tribune, Poetry, Saturday Review of Literature, Partisan Review, New York Times, Book Review, The Commonweal, etc. *Publications:* Rooming House (poems) 1932, Poems of Catullus (translation) 1933, D. H. Lawrence: Pilgrim of the Apocalypse 1933, No Retreat (poems) 1933, Chorus for Survival (poems) 1935, Poems 1930-40 1941, The Shield of Achilles, Essays on Beliefs in Poetry 1944, A History of American Poetry 1900-1940 (with Marya Zaturenska) 1946, Selected Poems of Horace Gregory 1951, Ovid's Metamorphoses: an adaptation into modern verse 1958, Amy Lowell: An Historical Portrait 1958, The World of James McNeill Whistler 1959, Medusa in Gramercy Park (poems) 1961, Collected Poems 1964; Editor: New Letters in America 1937, The Triumph of Life (anthology of devotional and elegaic verse) 1943, The Portable Sherwood Anderson 1949, The Snake Lady and Other Stories by Vernon Lee 1954, Robert Browning's Selected Poems 1956, The Mentor Book of Religious Verse 1956, The Crystal Cabinet (with Marya Zaturenska) 1962, Love Poems of Ovid (new English verse adaptation) 1964, The Silver Swan: An Anthology (with Marya Zaturenska) 1966, Dorothy Richardson: An Adventure in Self-Discovery 1967, The House on Jefferson Street: A Cycle of Memories (autobiography) 1971, Spirit of Time and Place: Collected Essays of Horace Gregory 1973, Another Look 1976. *Leisure interests:* travel, classical music, painting, history. *Address:* Palisades, Rockland County, N.Y. 10964, U.S.A. *Telephone:* 914-EL9-4362.

GREGORY, Roderic Alfred, C.B.E., M.SC., PH.D., D.SC., F.R.C.P., F.R.S.; British physiologist; b. 29 Dec. 1913, London; s. of Alfred and Alice Gregory; m. Alice Watts 1939; one d.; ed. George Green's School, London, and Univ. Coll. and Hospital, Univ. of London; Sharpey Scholar, Univ. Coll., London 1936-39; Rockefeller Travelling Medical Fellow 1939-41; Lecturer in Physiology, Univ. Coll., London 1941-45; Senior Lecturer in Physiology, Univ. of Liverpool 1945-48; George Holt Prof. of Physiology, Univ. of Liverpool 1948-; mem. MRC of Great Britain 1967-71; Hon. mem. American Gastroenterological Assn. 1967, British Soc. of Gastroenterology 1974; Vice-Pres., Royal Soc. 1972-73; Fellow, Univ. Coll., London; Hon. D.Sc. (Univ. of Chicago); Baly Medal Royal Coll. of Physicians, London; Feldberg Prize; Anniversary Medal, Swedish Medical Soc.; Hunter Medal and Triennial Prize, Royal Coll. of Surgeons of England 1969; Beaumont Prize, American Gastroenterological Assn. 1976, Royal Medal, Royal Soc. 1978. *Publications:* Various articles in journals of physiology and gastroenterology. *Leisure interest:* music. *Address:* Department of Physiology, University of Liverpool, Liverpool, England. *Telephone:* 051-709-9306.

GREINDL, Josef; German singer; b. 23 Dec. 1912; studied with Paul Bender and Anna Bahr-Mildenburg 1932-36; with Krefeld Stadttheater 1936, Städtische Bühnen, Düsseldorf 1938, Berlin State Opera 1942, Deutsche Oper Berlin 1948-, Vienna State Opera 1956-59, 1965-; sang at Bayreuth Festival 1943, 1944, 1952-70, Salzburg Festival 1949-52, Lucerne Festival 1951, Zürich Festival 1951-54, Easter Festival (Salzburg) 1969-70; Dir. Opera and Music School, Saarbrücken 1961-; has frequently sung at foreign opera houses, including Metropolitan Opera, New York, La Scala, Milan and in Rome, Naples, Venice, Paris, Lisbon, Amsterdam, Chicago, Tokyo, Buenos Aires, San Francisco and Mexico City; numerous European concert tours and recordings; Berlin Art Prize 1955; Bundesverdienstkreuz (1st Class). *Address:* Küchelstrasse 1a, 8000 Munich 70, Federal Republic of Germany. *Telephone:* 744506.

GRENDYS, Michal, M.JUR.; Polish politician; b. 25 Sept. 1912, Witkowice, Rzeszów Voivod; s. of Jan and Jadwiga Grendys; m. Julia Ochab 1938, two s.; ed. Łódź Univ.; mem. Democratic Party (SD) 1944-, Sec. of District Cttee. in Rzeszów, later Vice-Chair.; Sec. of SD Voivod Cttees. in Rzeszów 1946-50, Łódź 1950-53, Crakow 1953-55; active in Nat. Councils and Nat. Unity Front in Rzeszów, Łódź, Crakow 1946-55; mem. Cen. Cttee. of SD 1954-, Head of Organizational Team, later of Team for Nat. Councils 1955-65, mem. of Secr. 1965-69, Sec. Cen. Cttee. 1971-76, Deputy Chair. 1973-76; Chair. Cen. Revisional Comm. of SD 1976-; Deputy Chair. Presidium All-Polish Cttee. of Nat. Unity Front 1971-; Deputy to Seym (Parl.) 1957-; mem. Council of State 1972-; mem. World Peace Council; Vice-Chair. Polish Cttee. of Peace; Order of Banner of Labour, 1st Class, Knight's Cross and Officer's Cross, Order of Polonia Restituta, Gold Cross of Merit. *Address:* Kancelaria Rady Państwa PRL, ul. Wiejska 4/6/8, 00-489 Warsaw (Office); ul. Kozia 9/30, Warsaw, Poland (Home). *Telephone:* 27-11-46 (Home).

GRENFELL, 3rd Baron, cr. 1902, of Kilvey; **Julian Pascoe Francis St. Leger Grenfell,** Bt.; British international civil servant; b. 23 May 1935, London; s. of late 2nd Baron Grenfell of Kilvey; m. 1st Loretta Reali 1961 (dissolved 1970), one d.; m. 2nd Gabrielle Raab 1970, two d.; ed. Eton Coll., King's Coll., Cambridge; Second Lieut., Kings Royal Rifle Corps 1954-56; Capt. Queen's Royal Rifles (Territorial Army) 1963; television journalist 1960-64; joined IBRD 1965, Chief of Information and Public Affairs in Europe 1969-72, Deputy Dir. European Office 1973-74; Special Rep. for UN Orgs. 1974. *Leisure interests:* winetasting, diplomatic history. *Address:* United Nations, Room 2435, New York, N.Y. 10017 (Office); 55 East 72nd Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* 754-6008 (Office); 628-0949 (Home).

GRENFELL, Joyce Irene, O.B.E.; British entertainer and writer; b. 10 Feb. 1910, London; d. of Paul Phipps and Nora Langhorne; m. Reginald P. Grenfell 1929; Radio Critic Observer 1936-39; first stage appearance in Farjeon's Little Revue 1939-40; appeared in Diversion Wyndham's Theatre Oct. 1940-April 1941, Light and Shade Ambassadors Theatre Sept. 1941; Welfare Officer Canadian Red Cross 1941-43; entertained troops, and in hospitals in N. Africa, the Middle East, India and Italy 1944-45; appeared in Noel Coward's revue Sigh No More 1945-46, Tuppence Coloured 1947-48, Penny Plain 1949-50, Joyce Grenfell Requests the Pleasure, London 1954-55, New York 1955; toured U.S.A. and Canada with solo programme 1956, 1958, 1960, and in Sydney, Australia 1959, Switzerland and Canada 1963, London 1965, Australia, Hong Kong 1969;

mem. Pilkington Cttee. on Radio and TV 1960-62; appeared in Australia, New Zealand, Hong Kong and Singapore 1963; toured Australia 1966, 1969, U.S.A. 1970, G.B. 1970, 1971; Pres. Soc. of Women Writers and Journalists; Council mem. Winston Churchill Memorial Fellowship Trust; Hon. Fellow Lucy Cavendish Coll. Cambridge, Manchester Polytechnic; films include: Poet's Pub, The Happiest Days of Your Life, Stage Fright, Galloping Major, Laughter in Paradise, The Magic Box, The Pickwick Papers, Genevieve, The Million Pound Note, Forbidden Cargo 1953, Belles of St. Trinians 1954, The Pure Hell of St. Trinians, The Americanisation of Emily 1963, The Yellow Rolls-Royce 1964; Radio: own series A Note With Music, The How Series in collaboration with Stephen Potter, and frequent broadcasts on Ten to Eight and Women's Hour; TV: solo spectaculars for BBC 1967-69, 1971-72; appearances in Face the Music (quiz) 1971-75. *Publications:* Joyce Grenfell Requests the Pleasure (autobiog.) 1976, George, Don't Do That 1977. *Leisure interests:* music, birds, flowers, reading. *Address:* Flat 8, 34 Elm Park Gardens, London S.W.10, England.

GRESFORD, Guy Barton, B.SC., F.R.A.C.I.; Australian science administrator; b. 7 March 1916, Sydney; m. Bettine Attiwill 1948; one s. two d.; ed. Hobart High School, Royal Melbourne Technical Coll., Trinity Coll., Univ. of Melbourne, and School of Admin., Harvard Univ.; Officer in Charge, Australian Scientific Liaison Office, London 1942-46; Asst. Sec. (Australian) Commonwealth Scientific and Industrial Research Org. 1947-52, Sec. (Physical Sciences) 1952-59, Sec. 1959-66; Dir. for Science and Tech., UN 1966-73; Sec. UN Advisory Cttee. for Application of Science and Tech. to Devt. 1966-73, mem. 1975-77; Sr. Adviser on Science, Tech. and the Environment, Australian Dept. of Foreign Affairs 1973-78; Deputy Sec.-Gen., UN Conf. on Science and Tech. for Devt. 1978-; Harkness Fellow, Commonwealth Fund of New York 1957. *Leisure interests:* books, walking, gardening. *Address:* United Nations, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 754-4624.

GRESSITT, J(udson) Linsley, PH.D., F.R.E.S.; American entomologist; b. 16 June 1914, Tokyo, Japan; s. of James F. and Edna Linsley Gressitt; m. Margaret Kriete 1941; four d.; ed. Stanford and California Univs.; Asst. in Zoology Univ. of Calif.; Instructor Lingnan Univ. (Canton and Hong Kong) 1939-41; interned 1941-43; Lieut. U.S.N. Medical Research Unit No. 2 1945-46; Asst. Prof. Lingnan Univ. 1946, Assoc. Prof. 1948-51; mem. U.S. Nat. Research Council (Pacific Science Board) 1951-52; Entomologist Bishop Museum, Honolulu 1953-, Chair. Dept. of Entomology 1956-72; L. Allen Bishop Distinguished Chair. of Zoology 1963-; Chair. Standing Cttee. on Pacific Entomology (Pacific Science Assen.) 1953-57; field work in Far East 1929-51, South Pacific 1951-, Antarctica 1959-66; Guggenheim Fellowship 1955-56, Fulbright Fellowship (Australia) 1960-61; Polar Research Cttee. Nat. Acad. of Sciences 1965-69, Chair. Governor's Cttee. on Conservation 1969-70; Chair. State Comm. Natural Area Reserves 1970-73; Dir. Wau Ecology Inst., Wau, New Guinea 1971-; Gregory Medal, Pacific Science 1975. *Publications:* Longicorn Beetles of Hainan Island 1940, Longicorn Beetles of China 1951, Filth-inhabiting Flies of Guam (with G. Bohart) 1951, Tortoise-beetles of China 1952, Coconut Rhinoceros Beetle 1953, Insects of Micronesia—Introduction 1954, Cerambycidae 1956, Hispine Beetles from the South Pacific 1957, Longicorn Beetles from New Guinea Vol. I 1959, Bibliographic Introduction to Antarctic-Subantarctic Entomology 1960, Problems in the Zoogeography of Pacific and Antarctic Insects 1961, Chrysomelidae of China and Korea (with S. Kimoto) 1961, 1963, Insects of Campbell Island 1964, Land Arthropods of Antarctica 1965, Bibliography of New Guinea Entomology (with J. Szent-Ivany) 1968, Editor Entomology of Antarctica 1967, Subantarctic Entomology 1970, Cerambycid-beetles of Laos 1970, Advances in Antarctic Entomology 1971, Entomology Islands South of New Zealand 1971, Handbook of Common New Guinea Beetles (with R. Hornabrook) 1977, Pacific Insects, Journal of Medical Entomology, Guide to Mt. Kaindi: Background to Montane New Guinea Ecology (with N. Nadkarni) 1978. *Leisure interests:* hiking, skiing, gardening. *Address:* Bishop Museum, Honolulu, P.O. Box 6037, Hawaii 96818, U.S.A.; and Wau Ecology Institute, Box 77, Wau, Papua New Guinea. *Telephone:* Wau 44-6341, 44-6206.

GREWE, Wilhelm G.; German university professor and diplomatist; b. 16 Oct. 1911, Hamburg; s. of Wilhelm Grewe and Ina Schulz; m. 1st Marianne Partsch 1943, 2nd Gerty Winter 1958; one s. two d.; ed. Univs. of Berlin, Freiburg, Frankfurt and Hamburg, and Acad. of International Law, The Hague; taught in Berlin and Göttingen Univs. 1941-47; Prof. of Law, Freiburg Univ. 1947-55; Chief of Legal Division, Foreign Office 1953-54, of the Political Division 1955-58; Amb. to U.S.A. 1958-62, Perm. Rep. to NATO 1962-71; Amb. to Japan 1971-76 (retd.); mem. Perm. Court of Arbitration, The Hague. *Publications:* Gnade und Recht 1936, Ein Besatzungsstatut für Deutschland 1948, Deutsche Aussenpolitik der Nachkriegszeit 1960, Spiel der Kräfte in der Weltpolitik 1970. *Address:* c/o Ministry of Foreign Affairs, Bonn, Federal Republic of Germany.

GREY, Beryl Elizabeth, C.B.E.; British prima ballerina; b. 11 June 1927, London; d. of Arthur and Annie Groom; m. Dr. Sven Gustav Svenson 1950; one s.; ed. Dame Alice Owens School, London, Madeline Sharp School, Royal Ballet School, and de Vos School of Dance; debut Sadler's Wells Co. 1941; Prima Ballerina with Royal Ballet until 1957; freelance int. prima ballerina since 1957; first full-length ballet Swan Lake on 15th birthday; has appeared since in leading roles of classical and numerous modern ballets including Giselle, Sleeping Beauty, Sylvia, Casse Noisette, Les Sylphides, Checkmate, Donald of the Burthens, Dante Sonata, Three Cornered Hat, Ballet Imperial, Lady and the Fool, Les Rendezvous; American, Continental, African, Far Eastern tours with Royal Ballet since 1945; guest artist European Opera Houses in Norway, Finland, Sweden, Denmark, Belgium, Romania, Germany, Italy, etc.; guest artist South and Central America, Middle East, Union of South Africa, Rhodesia, Australasia; first foreign guest artist ever to dance with the Bolshoi Ballet in Russia 1957-58 (Moscow, Leningrad, Kiev, Tiflis) and first to dance with Peking Ballet and Shanghai Ballet 1964; Dir.-Gen. of Arts Educational Trust, London 1966-68; Artistic Dir. of London Festival Ballet 1968; Hon. D.Mus. (Leicester), Hon. D.Litt. (London). *Publications:* Red Curtain Up 1958, Through the Bamboo Curtain 1965. *Leisure interests:* music, painting, reading, swimming. *Address:* 78 Park Street, London, W.1, England. *Telephone:* 01-629 0477.

GREY, John R.; American oil executive; b. Burbank, Calif.; ed. Stanford Univ.; joined Standard Oil Co. of Calif. 1944, Man. Salt Lake Refining Co. 1957, Vice-Pres. Chevron Oil (Western Div. 1961, Pres. Salt Lake Pipe Line Co., Man. Operations, Richmond, Calif. 1962, Chief Engineer Standard Oil Co. of Calif. 1965, Vice-Pres. Mfg., Western Operations Inc. 1966, Vice-Pres. 1969, Dir. 1970-, Pres. 1974-. *Address:* Standard Oil Co. of California, 225 Bush Street, San Francisco, Calif. 94104, U.S.A.

GREY OF NAUNTON, Baron (Life Peer), cr. 1968; **Ralph Francis Alnwick Grey,** G.C.M.G., G.C.V.O., O.B.E., LL.B.; British civil servant; b. 15 April 1910, Wellington, New Zealand; s. of Francis A. Grey and Mary W. Spence; m. Esmé Burcher 1944; two s. one d.; ed. Wellington Coll., Auckland Univ. Coll., Pembroke Coll., Cambridge; Barrister and Solicitor, Supreme Court of New Zealand 1932, Judge's Assoc. N.Z. 1932-36; Cadet, Colonial Admin. Service, Nigeria 1937, Asst. Financial Sec. 1948, Admin. Officer (First Class) 1951, Devt. Sec. 1952, Sec. to the Gov.-Gen. and Council of Ministers 1954; Chief Sec. Fed. of Nigeria 1955-57, Deputy Gov.-Gen. 1957-59; mem. Council of Ministers, Fed. of Nigeria 1955-57, and mem. Council of Ibadan Univ. Coll.; Gov. and C.-in-C. British Guiana 1959-64; Gov. and C.-in-C. Bahamas 1964-68, also Gov. Turks and Caicos Islands 1965-68; Gov. of N. Ireland 1968-73; Deputy Chair. Commonwealth Devt. Corpn. July 1973-; Bristol Regional Board, Lloyds Bank Ltd. 1973-; Chair. Royal Overseas League 1976-; mem. Council, Cheltenham Ladies' Coll. 1975; Hon. LL.D. (Queen's Univ., Belfast); Hon. Bencher, Inn of Court Northern Ireland; Bailiff of Egle, Grand Cross Order of St. John 1975; Hon. Freeman, City of Belfast, Borough of Lisburn. *Leisure interests:* golf, reading, cinematography. *Address:* Overbrook, Naunton, Glos., England. *Telephone:* Guiting Power 263.

GREZEL, Pierre Louis Charles, L.EN D.; French business executive; b. 1 Dec. 1901, Tunis; ed. Ecole Polytechnique and Ecole des Mines, Paris; Dir., subsequently Asst. Dir.-Gen. Electricité de France 1946-55; Pres. Cie Gén. d'Electro-Céramique, Soc. des Accumulateurs Fixes et de Traction 1955; Assoc. Man. MM. Lazard Frères et Cie. 1957; fmr. Hon. Pres., Pechiney Ugine Kuhlmann; Admin. Chrysler France, Carnaud S.A., Forges de Gueugnon, Aluminium de Grèce, Greece, Forces Motrices de Mauvoisin, Switzerland and other companies; Officier, Légion d'honneur. *Address:* c/o Lazard Frères et Cie., 5 rue Pillet-Will, 75009 Paris (Office); 34 rue Guynemer, 75006 Paris, France (Home).

GRIBACHOV, Nikolay Matveyevich; Soviet poet and journalist; b. 19 Dec. 1910, Lopush Village, Bryansk Region; two s.; ed. Coll. of Land Reclamation, Gorky Literary Inst.; Land Surveyor in Northern regions; Editor-in-Chief Soviet Union 1950-54, 1956-; mem. CPSU 1943-; Sec. of Board, U.S.S.R. Union of Writers 1953-54, 1959-; alternate mem. Cen. Cttee. CPSU 1961-; Deputy R.S.F.S.R. Supreme Soviet 1967-; State Prizewinner 1948, 1949; Lenin Prize 1960, Order of Lenin (twice), Hero of Socialist Labour, Hammer and Sickle Gold Medal, Red Banner, Red Star (twice), October Revolution, Patriotic War 1st Class. *Publications:* The Bolshevik Collective Farm 1947, Spring in the Pobeda 1948, Poems and Verses 1951, After Thunderstorm 1952, My Dear Fellow-Coun-

trymen 1954, Thoughtful Mood 1955, Face to Face with America 1961, Orbit of Century 1961, Selected Works (3 vols.) 1961, America, America 1961, I am Going 1962, Forward, Sergeant! 1963, Night Thunderstorm (novel) 1964, White-Black (poetry) 1965, Love and Anxiety and Battle (poetry) 1967, White Angel in the Field (fiction) 1967, Lyrics of Reflexion 1971, Collected Works (5 vols.) 1971-73; Hail, Combat! 1976. *Address:* U.S.S.R. Union of Writers, Ulitsa Vorovskogo 52, Moscow, U.S.S.R.

GRIBKOV, Gen. Anatoly Ivanovich; Soviet army officer; b. 1919; mem. of the CPSU 1941; ed. Kharkov Tank College, Military Acad. of the General Staff; joined Soviet Army 1938, rose from Platoon Commdr. to Company Commander 1939-41; on staff of mil. districts and General Staff 1942-65; First Deputy Commander 1968-73, Commdr. of a military district 1973-76, Chief of Staff, Warsaw Pact Forces October 1976-; rank of Gen.; Cand. mem. CC, CPSU 1976-; Deputy of Supreme Soviet 8th and 9th sessions; various decorations.

GRIFFIN, Admiral Sir Anthony (Templer Frederick Griffith), G.C.B.; British naval officer and shipbuilding executive; b. 24 Nov. 1920, Peshawar, India (now Pakistan); s. of Col. Forrester Metcalfe Griffith Griffin, M.C., and Beryl Alice Beatrix Griffith Griffin; m. Rosemary Ann Hickling 1943; two s. one d.; ed. Royal Naval Coll., Dartmouth; entered Royal Navy 1934; war service H.M.S. Gloucester, Fury, Talybont, Implacable, Empress 1939-45, mentioned in despatches 1944, 1945; Lieut.-Commdr. 1949, Commdr. 1951; Application Commdr., H.M.S. Mercury II 1952-54; Exec. Officer H.M.S. Eagle 1955-56; Capt. 1956; Deputy Dir. of Navigation and Direction, Admiralty 1957-59; Command H.M.S. Woodbridge Haven and Capt. Inshore Flotilla 1959-60; Deputy Dir. of Plans 1960-62; Command H.M.S. Ark Royal 1964-65; Rear-Adm. 1966; Naval Sec. 1966; Asst. Chief of Naval Staff (Warfare) 1966-68; Vice-Adm. 1968; Flag Officer Second-in-Command, Far East Fleet 1968-69; Flag Officer, Plymouth, Adm. Supt., Devonport, Commdr. Cen. Sub Area, E. Atlantic, Commdr. Plymouth Sub Area, Channel 1969-71; Controller of the Navy 1971-75; Adm. 1971; Chair. Organizing Cttee. and Chair. Designate of British Shipbuilders 1975-77, Chair. March 1977-. *Leisure interest:* sailing. *Address:* British Shipbuilders, 243 Knightsbridge, London, SW7 1DG (Office); Candles Copse, Cranleigh, Surrey, GU6 8LG, England. (Home). *Telephone:* 01-589 3488 (Office); Cranleigh 3314 (Home).

GRIFFIN, Charles Donald; American naval officer; b. 12 Jan. 1906, Philadelphia, Pa.; s. of Joseph R. Griffin and Mande L. Spicknall; m. 1st Camilla Y. Ganteaume 1934 (died 1963), 2nd Marion H. Schaefer; one s. two d.; ed. U.S. Naval Acad., and Univ. of Michigan; U.S. Navy 1927-, Vice-Adm. 1960, Adm. 1963; Duty in Battleships and Destroyers 1927-30, U.S.S. Enterprise 1937-40; Flight Test Officer, Naval Air Station, Anacostia 1940-42; Commdr. Carrier Air Group 9, U.S.S. Essex 1942-43; mem. Joint War Plans Cttee., Joint Chiefs of Staff 1944; C.O., U.S.S. Croatan 1945-46; Plans Officer, U.S. Atlantic Fleet 1946-47; Strategic Plans Div., Operations Navy 1948-50; Plans Officer, U.S. Pacific Fleet 1951-54; C.O., U.S.S. Oriskany 1953-54; Special Asst. to Chair., Joint Chiefs of Staff 1955-56; Commdr. Carrier Div. 4, 1957-58; Dir. Strategic Plans, Navy Dept. 1959-60; Commdr. Seventh Fleet 1960-Oct. 1961; Deputy Chief of Naval Operations for Fleet Operations and Readiness 1961-63; C.-in-C. U.S. Naval Force in Europe 1963-65; C.-in-C. Allied Forces, Southern Europe 1965-68. *Leisure interests:* sport events, golf, gardening, hunting. *Address:* 4610 Dexter Street, N.W., Washington, D.C. 20007, U.S.A.

GRIFFIN, Donald (Redfield), PH.D.; American biologist; b. 3 Aug. 1915, Southampton, N.Y.; s. of late Henry F. Griffin and Mary W. Redfield; m. 1st Ruth Castle 1941 (dissolved 1965), 2nd Jocelyn Crane 1965; one s. three d.; ed. Harvard Coll. and Graduate School of Arts and Sciences, Harvard Univ.; Junior Fellow, Harvard Univ. 1940-46, Research Assoc. 1942-45; Asst. Prof. of Zoology, Cornell Univ. 1946-47, Assoc. Prof. 1947-52, Prof. 1952-53; Prof. of Zoology, Harvard Univ. 1953-65, Chair. Dept. of Biology 1962-65; Prof. The Rockefeller Univ. 1965-, Trustee 1973-76; Pres. Harry Frank Guggenheim Foundation, New York 1979- mem. Nat. Acad. of Sciences, American Philosophical Soc.; Elliott Medal 1960. *Publications:* Listening in the Dark 1958, Echoes of Bats and Men 1959, Animal Structure and Function 1962, Bird Migration 1964, The Question of Animal Awareness 1976. *Leisure interest:* sailing. *Address:* The Rockefeller University, 1230 York Avenue, New York, N.Y. 10021 (Office); 1 West 67th Street, New York, N.Y. 10023, U.S.A. *Telephone:* 212-360-1320 (Office).

GRIFFIN, James Bennett, PH.D.; American anthropologist and archaeologist; b. 12 Jan. 1905, Atchison, Kan.; s. of Charles Bennett and Maude (Bostwick) Griffin; m. Ruby Fletcher 1936; three s.; ed. Univs. of Chicago and Michigan; Research Assoc. Museum of Anthropology, Univ. of Mich. 1936-41, Asst. Curator, Archaeology 1936-42, Assoc. Curator 1942-45, Curator 1945-76, Dir. 1946-75, Senior Research Scientist; Assoc. Prof. of Anthropology, Univ. of Mich. 1945-49, Prof. 1949-76, Prof. Emer. 1976-, Henry Russel Lecturer 1971-72; Chair. Dept. of Anthropology 1972-75; mem. Perm. Council, Int. Union of Prehistoric and Protohistoric Sciences 1948-76, mem. Exec. Cttee. 1962-76; Pres. Cttee. on Anthropology, Pan American Inst. of Geography and History 1954-59; Fellow, American Assen. for the Advancement of Science, American Anthropological Assen.; mem. Soc. for American Archaeology (Asst. Editor 1936-46, Assoc. Editor 1946-50, First Vice-Pres. 1945-46, mem. Exec. Cttee. 1945-46, 1950-53, Pres. 1951-52), Nat. Acad. of Sciences, Sociedad Mexicana de Antropología; Sec. American Quarternary Assen. 1970-72; mem. Exec. Cttee. Assen. of Field Archaeology 1971-78; Viking Fund Medal and Award in Archaeology 1957; Hon. D.S. (Indiana Univ.) 1971. *Publications:* The Fort Ancient Aspect 1943, Archaeological Survey in the Lower Mississippi Alluvial Valley 40-47 (Co-Author) 1950, Archaeology of Eastern United States 1952; and over 250 professional articles. *Leisure interest:* travel. *Address:* Museum of Anthropology, 4017 University Museums Building, Ann Arbor, Mich. 48109 (Office); 360 Evergreen Place, Ann Arbor, Mich. 48104, U.S.A. (Home). *Telephone:* 764-0482 (Office); 663-5371 (Home).

GRIFFIN, Robert P., A.B., B.S., J.D.; American lawyer and politician; b. 6 Nov. 1923, Detroit, Mich.; s. of J. A. and Beulah M. Griffin; m. Marjorie J. Anderson 1947; three s. one d.; ed. Central Michigan Univ., and Univ. of Michigan Law School; admitted to Mich. Bar; mem. law firm Williams, Griffin, Thompson and Coulter, Traverse City 1950-56; mem. U.S. House of Reps. 1956-66; U.S. Senator from Michigan 1966-79; Minority Whip in Senate 1969-77; mem. Senate Commerce, Foreign Relations and Rules and Admin. Cttees.; mem. Amer. Bar Assen.; Hon. LL.D. (Univ. of Mich., Detroit Coll. of Law, Cen. Mich., Eastern Mich., Albion Coll., Western Mich., Grand Valley State Coll., Detroit Coll. of Business); Hon. L.H.D. (Hillsdale Coll.); Hon. J.C.D. (Rollins Coll.); Hon. ED.D. (Northern Mich.); Republican. *Leisure interests:* golf, camping. *Address:* 353 Russell Senate Office Bldg., Washington, D.C. 20510, U.S.A. *Telephone:* 202-224-6221.

GRIFFITH, Ernest Stacey; American political scientist and research director; b. 28 Nov. 1896, Utica, New York; s. of George Griffith and Elizabeth Stacey; m. Margaret Davenport 1929 (died 1974); two s. three d.; ed. Hamilton Coll., and Univ. of Oxford; Instructor in Econs., Princeton 1920-21; Warden, Univ. Settlement and David Lewis Club, Liverpool 1923-28; Lecturer in Social Studies, Univ. of Liverpool 1926-28; Assoc. Prof., Syracuse Univ. 1928-29; Visiting Prof., Harvard 1929-30; Dean and Prof. of Political Science, Syracuse 1930-35, and American Univ., Washington, D.C. 1935-40; Dir. Legis. Reference Service, Library of Congress 1940-58; Fulbright Prof., Oxford 1951-52, and Lecturer Int. Christian Univ. and Rikkyo Univ., Tokyo 1966-67 and at Birmingham, Manchester, Swansea and Oslo; Dean, School of Int. Service, American Univ., Washington, D.C. 1958-65; Consultant Editor Praeger Series U.S. Govt. Depts. and Agencies 1966; Pres. Nat. Acad. of Econs. and Political Science 1958-63; Hon. mem. Nat. Acad. of Public Admin.; mem. staff, Comm. on Operation of Senate 1976-77, Comm. on Fed. Paper Work 1977. *Publications:* The Impasse of Democracy 1939, The Modern Government in Action 1942, Research in Political Science 1948, Congress: Its Contemporary Role 1951, The American System of Government 1954, History of American City Government (four vols.) 1938, The Institutional Presidency 1976. *Leisure interests:* tennis, wilderness, mountain climbing, jogging. *Address:* 1941 Parkside Drive N.W., Washington, D.C. 20012, U.S.A. (Home). *Telephone:* RA6-5638.

GRIFFITH, Hugh Emrys, D.LITT.; British actor; b. 30 May 1912, Anglesey, Wales; s. of William and Mary Griffith; m. Adelgunde Margaret Beatrice Von Dechend 1947; ed. Llangefni Grammar School, R.A.D.A.; made film début in Neutral Port 1939; numerous leading parts in films, including: The Titfield Thunderbolt 1953, Lucky Jim 1957, Ben Hur 1959, The Day They Robbed the Bank of England 1960, Exodus 1961, The Counterfeit Traitor 1962, Tom Jones 1963, The Bargee 1964, Moll Flanders 1965, How to Steal A Million 1966, Oliver 1968, The Fixer 1968, Cry of the Banshee 1969, Start the Revolution Without Me 1969, Wuthering Heights 1970, The Abominable Dr. Phibes 1971, Craze 1973, The Hound of the Baskervilles, The Last Remake of Beau Geste. Numerous stage productions include Waltz of the Torreadors 1956-57, Look Homeward, Angel 1957-58, Henry IV, parts 1 and 2 (Shakespeare's 400th anniversary Season, Stratford-upon-Avon) 1964, The Tempest 1972; also starred in numerous TV productions including: The Waltz of the Torreadors, The Citadel, Treasure Island, Dare I Weep, Dare I Mourn, and The Walrus and the Carpenter (series), Oh Dad, Poor Dad, and Sailor From Gibraltar 1965-66, The Pro-

posal and Uncle Rollo 1971, Clochemerle 1972; R.A.D.A. Gold Medal 1939; Acad. Award (Ben Hur). *Leisure interest:* occasional writing. *Address:* c/o I.C.M. Ltd., 22 Grafton Street, London, W1., England.

GRIFFITH, Patrick Waldron Cobham; British business executive; b. 26 April 1925, Weybridge, Surrey; s. of late Cyril Cobham Griffith and Louisa Ellen Mathews; m. Sonia Clark 1955; one s. two d.; ed. Bryanston School; service in Fleet Air Arm 1943-46; worked for Eng. Components Ltd. 1946-51, Sales Dir. 1955-58, Vice-Chair. 1958-68; Chair., Man. Dir. and Dir. of Turner & Newall Ltd. 1968, Joint Man. Dir. 1972-74, Deputy Chair. 1974-76, Chair. 1976-; mem. Aston Martin works team driving in many long distance sports car races 1951-55, won Goodwood 9-hour race 1952 and RAC Tourist Trophy 1953 (both with Peter Collins); mem. Soc. of Motor Mfrs. and Traders 1974-, Chair. of Accessory & Components Cttee. 1974-76, Vice-Pres. 1976-; Chair. Slough Duke of Edinburgh Award Cttee. 1967-72; Vice-Chair. Slough Community Centre 1967-72; mem. Slough Social Fund 1967-72; Gov. Godstowe School; Liveryman, Coachmaker and Coach Harness Makers Co. *Leisure interests:* golf, gardening, swimming. *Address:* c/o Turner & Newall Ltd., 20 St. Mary's Parsonage, Manchester, M3 2NL, England. *Telephone:* 061-833 9272.

GRIFFITH, Thomas, A.B.; American writer and editor; b. 30 Dec. 1915, Tacoma, Wash.; s. of Thomas Griffith and Anne O'Reilly; m. Caroline Coffman 1937; ed. Univ. of Washington; Reporter, then Asst. City Editor Seattle Times (Wash.) 1936-41; Nieman Fellow, Harvard 1942; Contributing Editor, then Assoc. Editor Time magazine 1943-46, Sr. Editor 1946, Nat. Affairs Editor 1949-51, Foreign Editor 1951-60, Asst. Man. Editor, Time 1960-63; Senior Staff Editor, all Time Inc. Publs. 1963-67; Editor Life magazine 1968-73; Press columnist, Time magazine; Staff contributor Fortune magazine; columnist, Atlantic Monthly 1974-. *Publications:* The Waist-High Culture 1958, How True?—a Sceptic's Guide to Believing the News 1974. *Address:* Time & Life Building, Rockefeller Center, New York, N.Y. 10020 (Office); 25 East End Avenue, New York, N.Y. 10028, U.S.A. (Home). *Telephone:* 841-3733 (Office); RE4-7625 (Home).

GRIGOROV, Mitko; Bulgarian politician and diplomatist; b. 1920, Trin; s. of Grigor Dimitrov and Raina Grigorova; m. Stanka Grigorova 1956; one d.; ed. Sofia Univ.; mem. of Workers' Youth Union 1939; worked for Bulgarian Communist Party 1940; political imprisonment 1942-44; Head Dept. of and Sec. of Sofia City Cttee. of CP; Head, Propaganda and Agitation Dept. Central Cttee. of CP 1950-54, 1957; First Sec. Varna Regional Cttee. of CP 1954-57; mem. Cen. Cttee. of Bulgarian CP 1957-, Sec. 1958, mem. of Politburo 1961-66; Minister without Portfolio 1962-66; mem. Prague Editorial Bd. Problems of Peace and Socialism; Amb. to U.K. 1969-71; mem. State Council 1971-, Vice-Pres. Oct. 1974-; Order of Georgi Dimitrov. *Address:* c/o Durzhaven Suvet, Dondoukov Street 2, Sofia, Bulgaria.

GRIGOROVICH, Yuriy Nikolayevich; Soviet ballet-master; b. 1 Jan. 1927, Leningrad; ed. Leningrad Choreographic School and Lunarcharski Inst. of Theatrical Art, Moscow; Troupe of Kirov Theatre 1946, Soloist until 1962, Ballet-Master, Kirov Theatre 1962-64; Chief Ballet Master, Bolshoi Theatre, Moscow 1964-; People's artist of R.S.F.S.R.; Lenin Prize 1970; Ballets include Spartacus, Ivan The Terrible. *Address:* State Academic Bolshoi Theatre, 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

GRIGSON, Geoffrey; English poet; b. 2 March 1905, Pelynt, Cornwall; s. of Canon W. S. Grigson and Mary B. Boldero; m. Jane Grigson; one s. three d.; ed. Univ. of Oxford; Founder and one-time Editor of the English periodical New Verse: Duff Cooper Memorial Prize 1971. *Publications:* Several Observations: Thirty-five Poems 1939, Under the Cliff and Other Poems 1943, Henry Moore 1943, The Isles of Scilly and other Poems 1946, Samuel Palmer (biography) 1947, The Harp of Aeolus (criticism) 1948, Places of the Mind 1949, Poems of John Clare's Madness 1949, The Crest on the Silver (autobiography) 1950, The Victorians 1950, Selected Poems of William Barnes 1950, Selected Poems of John Clare 1950, Essays from the Air 1951, Gardenage 1952, Freedom of the Parish 1954, The Englishman's Flora 1955, English Drawings 1955, Painted Caves 1957, The Three Kings, Art Treasures of the British Museum 1958, A Herbal of All Sorts 1959, The Cherry Tree 1959, English Excursions 1960, Samuel Palmer's Valley of Vision 1960, Christopher Smart 1961, Collected Poems 1963, Poems of Walter Savage Landor 1964, Shapes and Stories (with Jane Grigson) 1964, The Shell Country Alphabet 1966, A Skull in Salop and Other Poems 1967, The English Year 1967, Poems and Poets, Ingestion of Ice-Cream and Other Poems 1968, A Choice of William Morris's Verse (Editor) 1969, Notes from an Odd Country 1970, Discoveries of Bones and Stones: Poems 1971, Faber Book of Popular Verse 1971, Penguin Book of Unrespectable Verse 1971, Rainbows, Fleas and Flowers 1971, Shapes and Creatures 1972, Sad Grave of an Imperial Mongoose and other Poems 1973, Faber Book of Love Poems (Editor) 1973, The Contrary View 1974, Dictionary of English Plant Names 1974, Angles and Circles 1974, Britain Observed 1975, Penguin Book of Ballads 1975, Poet to Poet: Cotton 1975, The Goddess of Love 1976, Faber Book of Epigrams and Epitaphs 1977, Fiesta 1978, Faber Book of Nonsense Poems 1978. *Address:* Broad Town Farm, nr. Swindon, Wiltshire, England.

GRIMES, Joseph Rudolph, B.A., M.I.A., LL.D., J.D.; Liberian lawyer, diplomatist and politician; b. 31 Oct. 1923, Monrovia, Liberia; s. of Louis Arthur and Victoria Elizabeth Grimes; m. Doris Delicia Duncan 1954; ed. Coll. of West Africa, Liberia Coll., Law School Harvard Univ. and Columbia Univ. Cadet, Bureau of Public Health and Sanitation 1938-42; Clerk, Exec. Mansion 1942-47; Counsellor, Dept. of State 1951-56; Dir. Louis Grimes School of Law, Liberia Univ. 1954-58; Under-Sec. of State 1956-60, Sec. of State 1960-72; Pres. Liberia Tractor and Equipment Co. 1976-; Dir. Chair. Liberia Tractor and Equipment Co. 1978- (Pres. 1976-78), W. African Explosives and Chemical Co., Liberia Tractor and Equipment Co., Liberian Amusements Ltd., West African Agriculture Corpn., Chair., Board of Dirs., P.P.P. Timber Industries Ltd., Stevfor, Denco Shipping Lines Inc.; Chancellor Episcopal Diocese of Liberia; Vice-Pres. Board of Trustees, Univ. of Liberia; mem. Board of Trustees, Monrovia Coll. and Coll. of W. Africa; mem. Liberian Del. to Asian African Conf., Bandung 1955, to Heads of African States Conf. 1961, to 15th-26th Sessions of UN Gen. Assembly; Grand Officier, Légion d'Honneur, Most Venerable Order of the Pioneers, Knight Great Band, Humane Order of the African Redemption, Hon. K.B.E., and other honours; Hon. LL.D. (Columbia Univ.) 1971. *Leisure interests:* reading, croquet. *Address:* P.O. Box 1588, Monrovia, Liberia. *Telephone:* 261220.

GRIMES, William Francis, C.B.E., D.LITT., F.S.A., F.M.A.; British archaeologist; b. 31 Oct. 1905; ed. Univ. of Wales; Asst. Keeper of Archaeology, Nat. Museum of Wales 1926-38; Asst. Archaeology Officer, Ordnance Survey Office 1938-45, Acting Archaeology Officer 1945; seconded to Ministry of Works, Ancient Monuments Dept., for investigation of historic monuments threatened with destruction 1939-45; Dir. of London Museum 1945-56; Hon. Dir. of Excavations, Roman and Medieval London Excavation Council 1947-; Sec. Council for British Archaeology 1949-54, Pres. 1955-59; Pres. London and Middlesex Archaeological Soc. 1950-59; Vice-Pres. Soc. of Antiquaries of London 1953-57; Vice-Pres. Prehistoric Soc. 1957-60, Soc. for Medieval Architecture 1957-64; Pres. Royal Archaeological Inst. 1957-60; Chair., London Topographical Society 1961-73; Dir. Inst. of Archaeology and Prof. of Archaeology, Univ. of London 1956-73; Chair. Faculty of Archaeology, History and Letters, British School at Rome 1963-66; Pres. Cambrian Archaeological Assn. 1963-64; Chair. Royal Comm. on Ancient Monuments (Wales and Monmouthshire) 1967-. *Publications:* Holt, Denbighshire: The Works-Depot of the Twentieth Legion at Castle Lyons (Y Cymmrodor, Vol. XLI, 1931), The Prehistory of Wales, Charterhouse (with Prof. M. D. Knowles), Excavations in Defence Sites 1939-45, 1 Brooke House, Hackney (with W. A. Eden, M. Draper, A. Williams), The Excavation of Roman and Medieval London 1968. *Address:* 2 Bryn Road, Swansea, West Glamorgan, Wales.

GRIMOND, Rt. Hon. Joseph, P.C., M.P., LL.D., D.C.L., T.D.; British politician; b. 29 July 1913, St. Andrews, Scotland; s. of Joseph B. Grimond and Helen L. Richardson; m. Laura Bonham Carter 1938; two s. one d.; ed. Eton and Balliol Coll., Oxford; Barrister; served Fife and Forfar Yeomanry 1939-45; fmr. Dir. of Personnel, European Office of UNRRA; Sec. Nat. Trust for Scotland 1947-49; Liberal M.P. for Orkney and Shetland 1950-; Liberal Chief Whip 1951-57, Leader of Parl. Party 1957-67, May-July 1976; Rector, Edinburgh Univ. 1961-64; Rector, Aberdeen Univ. 1969-72; Chancellor, Univ. of Kent 1970-. *Publications:* The Liberal Future 1959, The Liberal Challenge 1963, The Referendum (with Brian Neve) 1975, The Common Welfare 1978. *Address:* The House of Commons, London, S.W.1. (Office); Old Manse of Firth, Kirkwall, Orkney, Scotland (Home). *Telephone:* 01-219 4580.

GRISHIN, Viktor Vasiliyevich; Soviet politician; b. 18 Sept. 1914; ed. Moscow Railway Inst.; fmr. railway engine driver and locomotive depot chief; mem. CPSU 1939-; Sec. Serpukhov City Cttee. CPSU 1942-50; Sec. Moscow Region Cttee. CPSU 1950-56, mem. Cen. Cttee. CPSU 1952-59, 1961-, Cand. mem. Presidium Cen. Cttee. CPSU 1961-66, Cand. mem. Politburo 1966-71, mem. 1971-; Chair. All-Union Cen. Council of Trade Unions 1956-67; First Sec. Moscow City Cttee. CPSU 1967-; Deputy to Supreme Soviet 1950-; mem. Presidium U.S.S.R. Supreme Soviet; mem.

Soviet Parl. Del. to U.K. 1956; Order of Lenin (twice), Badge of Honour, and other decorations. *Address:* Moscow City Committee of CPSU, 6 Staraya Ploshchad, Moscow, U.S.S.R.

GRISHKIAVICHIUS, Piatras Piatrovich; Soviet politician; b. 1924; ed. CPSU Higher Party School; Army service, partisan 1941-45; journalist and party worker 1945-; Sec. Vilnius City Cttee., CP of Lithuania 1955-63, Second Sec. 1963-64, First Sec. 1971-74; mem. Cen. Cttee., CP of Lithuania 1960-, mem. Agric. Bureau 1962-63, Head dept. for org. of party work 1964-71; Cand. mem., Politbureau of Cen. Cttee., CP of Lithuania 1966-71, mem. 1971-, First Sec. 1974-; Deputy to Supreme Soviet, Lithuanian S.S.R. 1965-; mem. Cen. Cttee., CPSU 1976-; Order of Lenin and other decorations. *Address:* Communist Party of Lithuania, Vilnius, Lithuanian S.S.R., U.S.S.R.

GRIST, Reri; American coloratura soprano; ed. Music and Art High School, New York and Queen's Coll.; first major part Consuelo in West Side Story 1957; with Santa Fé Opera Co. and New York City Opera 1959. Washington Opera Soc. 1960, 1962, Vancouver Opera Assen. 1962, 1964, San Francisco Opera 1963, 1964, 1965, 1966, Chicago Lyric Opera 1964, Montreal début as Gilda, Rigoletto 1966, Metropolitan Opera début as Rosina, Barber of Seville 1966; has sung in numerous opera houses and festivals in Europe including début as Queen of the Night, Magic Flute in Cologne, Glyndebourne 1962 as Despina, Cosi Fan Tutti and Zerbinetta, Ariadne, Naples 1963, Holland Festival 1963, Piccola Scala, Milan 1963, Bordeaux Opera 1964, Munich State Opera 1965; regular appearances with Zürich Opera 1960-, Covent Garden 1962, 1966, Vienna State Opera 1963-, Salzburg Festival 1964-. *Address:* c/o Columbia Artists Management, 165 West 57th Street, New York, N.Y. 10019, U.S.A.

GRISWOLD, Erwin Nathaniel, LL.D., S.J.D., L.H.D., D.C.L.: American lawyer; b. 14 July 1904, East Cleveland, Ohio; s. of James H. Griswold and Hope Erwin; m. Harriet A. Ford 1931; one s. one d.; ed. Oberlin Coll., and Harvard Law School; worked in the office of the Solicitor Gen. 1929-34; Asst. Prof. of Law, Harvard Law School 1934-35, Prof. of Law 1935-46, Dean and Langdell Prof. of Law 1946-67; mem. U.S. Civil Rights Comm. 1961-67; Pres. Assen. American Law Schools 1957-58; Dir. American Council of Learned Socs. 1962-68; Solicitor Gen. of the U.S. 1967-73; Pres. American Bar Foundation 1971-74; Partner, Jones, Day, Reavis & Pogue, Washington 1973-; mem. American Philosophical Soc., Corresp. F.B.A., Hon. Bencher Inner Temple, etc. *Publications:* Spendthrift Trusts 1936, Cases on Federal Taxation 1940-66, Cases on Conflict of Laws (with others) 1964 (5th edn.), The Fifth Amendment Today 1954, Law and Lawyers in the United States 1964. *Leisure interests:* golf, reading. *Address:* 1100 Connecticut Avenue N.W., Washington, D.C. 20036 (Office); 36 Kenmore Road, Belmont, Mass. 02178; 3900 Watson Place N.W., Washington, D.C. 20016, U.S.A. (Homes). *Telephone:* 202-452-5880.

GROBBELAAR, James Arthur; South African trade union leader; b. 24 Aug. 1925, Pretoria, S.A.; s. of Evert J. and Doris (née Greenwood) Grobbelaar; m. Gwendoline W. Thewlis 1949; two d.; ed. Pretoria Junior High School and Observatory Boys' High School, Cape; boilermaker by trade; Branch Official of S. African Boilermakers' Soc. 1949-55, Nat. Organizer 1955-59, Area Sec. 1959-62, Admin. Sec. 1962-64; Gen. Sec. Trade Union Council of S. Africa 1964-; mem. Govt. Comm. of Inquiry into Labour Legislation June 1977; mem. Defence Manpower Bd. Sept. 1978; alt. mem. nat. Productivity Inst. Aug. 1976-; Editor Labour Mirror. *Leisure interests:* swimming, golf, gardening, reading. *Address:* 4th Floor, Vulcan House, 88 Anderson Street, Johannesburg (Office); 15 Bonifay Court, 21 Pendoring Road, Blackheath, Johannesburg, Transvaal, South Africa (Home). *Telephone:* 838-3824 (Office); 678-1080 (Home).

GROCHAL, Eugeniusz, M.ECON.SC.; Polish trades union activist and politician; b. 1 March 1920, Jaslo; ed. Tech. Univ., Szczecin; worked as railwayman during German occupation, Tarnów; after liberation participated in rebuilding railway junction, Lubań Slaski 1945; organizer of regional circle Railwaymen's Trade Union, Lubań Slaski, Sec., Chair. 1945-49; attended Trade Unions' School, Bydgoszcz; Asst. Railwaymen's Trade Union Training Centre, Instructor, Head of Organizational Dept. and Sec. of Gen. Bd., Railwaymen's Trade Union 1950-57, Chair. Gen. Bd. 1957-71; Deputy Chair. Cen. Council of Trade Unions (CRZZ) 1971-; Minister, mem. Council of Ministers and Chair. State Bd. of Prices 1977-; mem. Polish Socialist Party (PPS), Polish United Workers' Party (PZPR) 1948-, mem. PZPR Cen. Cttee. 1971-; Deputy to Seym (Parl.) 1965-; fmr. Chair., Seym Comm. of Transport and Communication; decorations include Order of Banner of Labour (1st and 2nd classes), Gold Cross of Merit, Hon. Meritorious Railwayman of People's Poland. *Address:* Państwowa Komisja Cen, ul. Swietok rzyska 12, 00-916 Warsaw, Poland.

GROEBE, Hans, DR. JUR.; German business executive; b. 29 Sept. 1916, Breslau; ed. Univ. of Freiburg and Kiel; commercial apprenticeship AEG, Erfurt 1935-37; mil. service 1937-45; rejoined AEG 1950, Commercial Man., Münster 1955-58, Hanover 1958-64, Man. Tech. Products Group 1964, mem. Man. Bd., AEG-Telefunken 1966, Chair. 1970-76, mem. Supervisory Bd. 1976-; Div. Salzgitter AG, Varta AG, Kraftanlagen Heidelberg, Wayss & Freytag AG, AEG-Kabel, Bank für Handel und Industrie Salzgitter, Norex München. *Address:* AEG-Telefunken, Goldsteinstrasse 235, 6000 Frankfurt/Main 71, Federal Republic of Germany. *Telephone:* (0611) 6679-540.

GROEBEN, Hans von der, DIP.JUR.; German retd. Common Market commissioner; b. 14 May 1907, Langheim, Ostpreussen; s. of Georg von der Groeben and Eva von Mirbach; ed. Charlottenburg Eng. Coll., Berlin, Bonn and Göttingen Univs.; with Ministry of Agriculture, Berlin 1933-39; mil. service 1939, 1942-45; Lower Saxony Ministry of Finance 1945-52; Dir. ECSC Div., Fed. Ministry of Econ. Affairs 1952-58; Co-rapporteur Spaak Report (on setting up of EEC); Chair. working party for drawing up EEC Treaty 1956; mem. Comm. of EEC 1958-67; mem. Comm. European Communities 1967-70; Dr. h.c. rer pol.; Grosses Bundesverdienstkreuz mit Schulterband und Stern, and other decorations. *Publications:* Europa-Plan und Wirklichkeit 1969, Ziele und Methoden der Europäischen Integration 1972, Kommentar zum Europäischen Wirtschafts-Gemeinschafts Vertrag 1974, Die Europäische Gemeinschaft zwischen Föderation und Nationalstaat 1977. *Leisure interests:* sociology, philosophy, music. *Address:* 5308 Rheinbach, Federal Republic of Germany. *Telephone:* 02226-2525.

GROENMAN, Sjoerd, LITT.D., PHIL.D.; Netherlands sociologist; b. 28 Nov. 1913, Roosendaal; s. of Berend Groenman and Anna Margaretha Joustra; m. Lucie Limborgh Meijer 1939; three s. one d.; ed. Gymnasium Winschoten and Universiteit van Amsterdam; sociologist, Community at Emmen 1938, Northern Econ. Technological Org. 1940, Econ. Technological Inst., Overijssel 1941, Bd. of North-Eastern Polder (Zuiderzeeworks) 1943; Prof. of Sociology, Utrecht State Univ. 1948, Dean, Faculty of Social Sciences 1963-67; Prof., Applied Sociology, Univ. of Leiden 1956-60; Chair. Int. Social Science Council 1960-70; mem. Int. Cttee. on Documentation of Social Sciences 1964-70; mem. Bd. of Dirs. European Centre for Coordination and Documentation in Social Sciences, Vienna 1963-70; Chair. Advisory Cttee. Ministry of Social Work 1956-66; Rector (Magnificus), Utrecht Univ. 1971-76; Officer, Order of Orange-Nassau. *Publications:* Methoden der Sociografie (Methods of Social Research) 1950, Kolonisatie op nieuw land (Colonisation on New Land) 1953, Ons deel in de ruimte (Our Part in Space) 1959, Sociaal gedrag en omgeving (Social Behaviour and Surroundings) 1971. *Leisure interest:* publishing in different journals and newspapers. *Address:* Anna Paulownalaan 188, Zeist near Utrecht, Netherlands. *Telephone:* 03404-15385

GROLLET, Louis Jean Alfred, M.D.; French physician; b. 14 July 1899; ed. Univ. de Paris à la Sorbonne; fmr. urologist, Faculty of Medicine, Paris, and Medical Asst., Hôpital Broca; Medical Supt.; Ecole Nationale Vétérinaire d'Alfort (Seine); Sec.-Gen. Soc. of Comparative Pathology; and Int. Cttee of Congress of Comparative Pathology; Founder Sec.-Gen. of Assen. for Clean Air 1956; Founder Sec.-Gen. of Medical Centre specializing in biological and electronic research; Editor-in-Chief Revue de pathologie comparée 1931- (Revue de pathologie comparée et de médecine expérimentale since 1967); mem. New York Acad. of Sciences; Officier, Légion d'honneur and other decorations. *Address:* 4 rue Théodule-Ribot, 75017 Paris, France.

GROMASHEVSKY, Lev Vasiliyevich; Soviet epidemiologist; b. 13 Oct. 1887, Nikolayev, Ukraine; s. of Vasiliy L. Gromashevsky and Anna A. Gromashevskaya; m. Lubov L. Gromashevskaya 1950; two s. two d.; ed. Novorossiysk Univ., Odessa; practising epidemiologist 1911-14; Army surgeon 1914-17; Jr. Research Assoc., Head of Chair, Rector Medical Inst., Odessa 1918-27; Dir. Sanitary-Bacteriological Inst. Dniepropetrovsk 1928-31; Prof. Cen. Inst. of Postgraduate Medical Training, Moscow 1931-48; Dir. Cen. Inst. of Epidemiology and Microbiology 1931-33; Head Sanitary-Epidemiological Lab. 1933-38; Soviet Army 1941-42; Dir. Inst. of Infectious Diseases, Kiev 1948-51; Head of Chair, Medical Inst., Kiev 1951-63; Inst. of Epidemiology, Microbiology and Parasitology 1963-; mem. CPSU 1905-; mem. U.S.S.R. Acad. of Medical Sciences 1944-; Hero of Socialist Labour 1967, Orders of Lenin, Order of October Revolution, Badge of Honour (twice) and medals. *Publications:* over 200 works on epidemiology of various infectious diseases. *Leisure interest:* literature. *Address:* Institute of Epide-

miology, Microbiology and Parasitology, 4 Spusk Razina, Kiev (Office); Pereulok Marjanenko 11/12, Flat 14, Kiev, U.S.S.R. (Home). *Telephone:* 937757 (Home).

GROMYKO, Andrey Andreyevich, D.ECON.; Soviet diplomatist; b. 18 July 1909, Starye Gromyky, Byelorussia; ed. Minsk Agricultural Inst. and Moscow Inst. of Econs.; Member CP 1931-; worked as sr. research scientist at Acad. of Sciences; in charge of American Div. of Nat. Council of Foreign Affairs 1939; Counsellor at Washington Embassy 1939-43; Amb. to U.S.A. and Minister to Cuba 1943-46; Soviet Rep. on UN Security Council 1946-49; Deputy Foreign Minister 1946-49; 1st Deputy Minister of Foreign Affairs 1949-52, 1953-57, Minister of Foreign Affairs 1957-; Amb. to U.K. 1952-53; Deputy to U.S.S.R. Supreme Soviet 1946-50, 1958-; Cand. mem. CPSU Cen. Cttee. 1952-56, mem. 1956-, mem. Politburo 1973-; took part in Teheran, Yalta and Potsdam Confs., Chair. Del. to Dumbarton Oaks Conf. on Post-War Security 1944; Chair. Comm. for Publ. of Diplomatic Documentation; Hero of Socialist Labour; Order of Lenin (five times), Hammer and Sickle Gold Medal and other decorations. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya Ploshchad, Moscow, U.S.S.R.

GRÖNDAL, Benedikt; Icelandic politician B.A.; b. 7 July 1924, Önundarfjördur; m. Heidi Gröndal; ed. Reykjavík Coll., Harvard Univ., Univ. of Oxford; journalist with Althydubladid 1938-43, News Editor 1946-50, Editor 1959-69; Editor Samvinnan and Dir. of Div. of Education of Fed. of Icelandic Co-operative Socs. 1951-58; M.P. 1956-; Foreign Minister Aug. 1978-; Dir. State Educational Library 1969-; mem. Standing Cttee. North Atlantic Ass. 1956-59; mem. State Radio Council 1956-71, Chair. 1957-59 and 1960-71; mem. Bd. of Dirs., Nat. Econ. Inst. 1971-; Chair. Social Democratic Party 1974-. *Publications:* books include The United States of America 1954, Iceland, from Neutrality to NATO Membership 1971. *Address:* c/o Ministry of Foreign Affairs, Reykjavík, Iceland.

GRONINGEN, Bernhard A. van, D.LITT., PH.D.; Netherlands university professor; b. 20 May 1894, Voorst; s. of Rudolf van Groningen and Johanna Roskam; m. Elisabeth M. van der Poel 1934; ed. Athénée Royal, Brussels and Groningen Univs.; Classics Teacher 1919-26; Rector, Assen Gymnasium 1926-29; Asst. Prof. of Greek Papyrology, Univ. of Groningen 1925-29; Prof. of Greek Language, Literature and Greek Antiquities, Univ. of Leiden 1929-64; mem. Royal Acad. of Netherlands 1935-, Pres. 1949-63; Hon. D. Litt. (Belfast) and Ph. D. (Thessaloniki); Knight, Order of the Lion, Commdr., Order of Orange-Nassau (Netherlands). *Publications:* Le gymnasiarque des métropoles de l'Egypte romaine 1924, Aristote, le second livre de l'économique 1933, Papyrological Primer (in collaboration with M. David) 1940, Short Manual of Greek Palaeography 1940, Basileus 1941, The Warren Papyri (in collaboration) 1941, Herodotus, with commentary in Dutch 1945-55, A Family Archive from Tebtunis 1950, In the Grip of the Past 1953, La poésie verbale grecque 1953, Homerus 1954, La composition littéraire archaïque grecque 1958. Le Dyscolos de Ménandre, étude critique du texte 1960, Traité d'histoire et de critique des textes grecs 1963, Théognis I, commentaire 1966, Aristote, les 3 économiques 1968, Euphorion 1970, Carmina et Epigrammata Graece 1972, Pindaros Tien Oden, Romanos Elf Hymnen, Herodotos Verhalen 1977. *Leisure interest:* music. *Address:* Cronesteinflat 50, Leiden, Netherlands. *Telephone:* 071-767118.

GRONOUSKI, John Austin, PH.D.; American economist and government official; b. 26 Oct. 1919, Wisconsin; s. of John A. and Mary R. Gronouski; m. Mary Louise Metz 1948; two c.; ed. Oshkosh State Teachers Coll., Oshkosh, Wis., and Univ. of Wisconsin. U.S. Army Air Corps 1942-45; Prof. Univ. of Maine 1948-50; Research Assoc. Fed. Tax Admins. 1952-56; Research Assoc. Univ. of Wisconsin 1956-57; Prof. Wayne State Univ. 1957-59; Research Dir. Wisconsin Dept. of Taxation and Univ. of Wisconsin Tax Impact Study 1959; Exec. Dir. Revenue Survey Comm., Wisconsin 1959-60; Commr. of Taxation, Wisconsin 1960-63; Postmaster-Gen. 1963-65; Amb. to Poland 1965-68; Dean, Lyndon B. Johnson School of Public Affairs, Univ. of Texas, Austin 1969-74, Prof. of Econ. and Public Affairs 1974-; mem. Nat. Acad. of Public Admin; mem. Presidential Comm. on Int. Radio Broadcasting 1972-73; Chair. Bd. for Int. Broadcasting (Radio Free Europe and Radio Liberty) 1977-(80); Pres. Polish Inst. of Arts and Sciences 1974-; Democrat. *Leisure interests:* swimming, golf, politics. *Address:* Lyndon B. Johnson School of Public Affairs, University of Texas, Austin. Tex. 78712 (Office); 216 Bonnieview, Austin, Tex. 78704, U.S.A. (Home). *Telephone:* 512-471-4962 (Office); 442-8153 (Home).

GROS, André; French judge at International Court of Justice; b. 19 May 1908, Douai, France; s. of Maurice Gros and Adèle Berr; m. Dulce Simoes-Correa 1940; two s.; ed. Univs. of Lyon and Paris; Asst., Law Faculty Paris 1931, Asst. Prof. Univ. Nancy 1935, Toulouse 1937, Univ. Prof. Public Law 1938-; seconded to Ministry of Foreign Affairs 1939; Prof. Political Science Rio de Janeiro Univ. 1939, 1941-42; served France 1940; legal Counsellor to French Embassy in London; French Rep. on War Crimes Comm., London 1945; legal adviser to French Del. Council of Foreign Ministers and Peace Conf. Paris 1946; Legal Adviser Ministry of Foreign Affairs 1947-; Prof. Ecole Nationale d'Admin. Paris 1947-; mem. Perm. Court of Arbitration, The Hague 1950; del. to Comm. for the Rhine 1950; Agent to Int. Court of Justice 1950-60; Conseiller d'Etat 1954-; Judge, Int. Court of Justice 1964-; mem. Inst. of Int. Law 1965, Vice-Pres. 1977; mem. UN Int. Law Comm. 1961-; mem. Court of Arbitration in Beagle Channel case between Argentina and Chile 1977; mem. Court of Arbitration between France and U.K. (continental shelf delimitation) 1977; Commdr., Légion d'honneur, Croix de guerre (1939-1945) Hon. Mem. of the Bench (Inner Temple) 1972. *Publications:* Survivance de la raison d'état 1932, Problèmes politiques de l'Europe 1942-44 (Spanish trans. 1943), La Convention de Genève sur les pécheries 1959, Traités et documents diplomatiques (with Paul Reuter) 1960, La protection diplomatique (in Encyclopédie française) 1964. *Leisure interests:* reading, golf. *Address:* International Court of Justice, Peace Palace, The Hague, Netherlands; 12 rue Beaujon, 75008 Paris, France.

GROSS, Bernhard, DIPL.ING., DR. RER. NAT.; Brazilian physicist; b. 1905, Stuttgart, Germany; s. of Wilhelm and Sophie Gross; m. Gertrud Gunz 1935; two s.; ed. Tech. Univ. Stuttgart, and Univ. of Berlin; Research Asst. Dept. of Physics, Stuttgart 1931-33; staff mem. Nat. Inst. of Tech., Rio de Janeiro 1934-, Dir. Electricity Div. 1946-47; Dir. Physics Div. Brazilian Nat. Research Council 1951-54; Prof. of Physics Univ. of Fed. District, Brazil 1934-37; Prof. of Electrical Measurements Catholic Univ., Rio de Janeiro 1955; fmr. mem. Scientific Advisory Cttee. I.A.E.A.; Brazilian Rep. to U.N. Scientific Advisory Cttee. 1958-60; mem. Brazilian Del. to UN Scientific Cttee. on Effects of Atomic Radiation 1957-59; Dir. Div. of Scientific and Tech. Information, Int. Atomic Energy Agency, Vienna 1961-67; Dir. of Research, Nat. Nuclear Energy Comm. of Brazil 1967-69; Visiting Prof., Tech. Univ., Karlsruhe, Fed. Repub. of Germany 1969; Scientist, Laboratoire Recherches Physiques, Veyrier, Switz. 1970; Research Prof. Inst. of Physics and Chem., Univ. of São Paulo in São Carlos 1972-; Consultant, Bell Lab., Murray Hill, N.J.; Dr. (h.c.). *Publications:* Mathematical Structure of Theories of Viscoelasticity 1953, Singularities of Linear System Functions 1961, Charge Storage Effects in Solid Dielectrics 1964, and over 100 papers on cosmic radiation, radiation effects and disometry, electrets, viscoelasticity, electrical network theory. *Address:* Sternwartestrasse 55, 1180 Vienna, Austria. *Telephone:* 34-77-932 (Home).

GROSS, Ludwik, M.D.; American professor of medicine; b. 11 Sept. 1904, Cracow, Poland; s. of Dr. Adolf and Augusta Gross; m. Dorothy L. Nelson 1943; one d.; ed. Uniwersytet Jagiellonski, Cracow; Intern and Resident St. Lazar Hospital, Cracow 1929-32; clinical training, Salpêtrière Hospital, Univ. de Paris à la Sorbonne 1932-39; cancer research, Pasteur Inst., Paris 1932-39, Christ Hospital, Cincinnati, Ohio, U.S. 1941-43; Capt. to Major, Medical Corps, U.S. Army 1943-46; Chief, Cancer Research Unit, Veterans' Admin. Hospital, New York 1946-; Consultant, Sloan-Kettering Inst. 1953-56, Assoc. Scientist 1957-60; Research Prof., Mount Sinai School of Medicine, City Univ. of New York 1971-; Dir. American Assn. for Cancer Research 1973-76; mem. Nat. Acad. of Sciences, American Medical Assn., American Soc. of Haematology and other socs.; Fellow American Coll. of Physicians, New York Acad. of Sciences, A.A.A.S., Int. Soc. of Haematology; Diplomate, American Bd. of Internal Medicine; awards include Prix Chevillon, Acad. Médecine, Paris 1937, R. R. de Villiers Int. Award for Leukaemia Research 1953, Walker Prize, Royal Coll. Surgeons, England 1962, Pasteur Silver Medal, Pasteur Inst., Paris 1962, L. W. James Award, James Ewing Soc., New York 1962, WHO UN Prize 1962, Bertner Foundation Award, Univ. of Texas 1963, Albert Einstein Centennial Medal, Philadelphia 1965, Albion O. Bernstein M.D. Award, N.Y. State Med. Soc. 1971, Special Virus Cancer Program Award, Nat. Cancer Inst. 1972, William S. Middleton Award, Veterans' Admin. 1974, Albert Lasker Basic Medical Research Award, New York 1974; Award for Cancer Immunology, Cancer Research Inst., New York 1975, Principal Paul Ehrlich-Ludwig Darmstaedter Prize, Frankfurt 1978, Prix Griffuel (Paris) 1978, Légion d'honneur. *Publications:* Oncogenic Viruses 1961 and over 200 papers on experimental cancer and leukaemia. *Leisure interests:* music, piano. *Address:* Veterans Administration Hospital, 130 West Kingsbridge Road, Bronx, New York 10468, U.S.A. *Telephone:* 212-584-9000, Ext. 227.

GROSZKOWSKI, Janusz, DR.ING., F.I.E.E.E.; Polish university professor, radio-electronics specialist; b. 21 March 1898, Warsaw; m. Mary Groszkowski 1921; one d.; Lecturer, Warsaw Tech. Univ. 1922-29, Prof. 1929-68; Dir. Radio Inst. (later State Inst. of Tele-

communications), Warsaw 1929-50; Polish underground movement; V-2 rocket expert, 2nd World War; mem. Polish Acad. of Sciences 1952-, Vice-Pres. 1957-62, Pres. 1963-72; mem. Presidium 1972-; Chair. Govt. Council Science and Tech. 1963-72; Chair. Nat. Comm. Int. Scientific Radio Union 1959-72; Vice-Pres. Int. Scientific Radio Union 1966-72; Chair. Comm. of Nat. Prizes 1970-; Vice-Chair. All-Polish Cttee. of Nat. Unity Front 1968-71, Chair. 1971-76; Deputy Chair. State Council 1972-76; Deputy to Seym 1972-76; Chair. Scientific Councils of Inst. of Communications and of Centre of Semiconductors; mem. Bulgarian, Cuban, Czechoslovak, Hungarian, Romanian, U.S.S.R. Acads. of Sciences, American Vacuum Soc.; Hon. mem. Soc. Française Electronique et Radio-électrique; Life Fellow, I.E.E.E. (U.S.A.); Dr. h.c. (Warsaw, Gdańsk and Łódź Tech. Univs.); State Prizes (1st Class) 1951, 1952, 1968; Commdr. Cross of Order of Polonia Restituta 1937, 1954; Order of Banner of Labour (1st Class) 1958, Order of Builders of People's Poland 1964, Gold Cross of Virtuti Militari, and other mil., Polish and foreign awards. *Publications:* The Interdependence of the Frequency Variation and Harmonic Content and Constant Frequency Oscillators 1932, On the Temperature Coefficient of Inductance 1935, The Fundamentals of Frequency Stabilization 1938, Frequency Generation and Stabilization 1947, High Vacuum Technology 1948, Frequency of Self-Oscillations (in English) 1963, High Vacuum Engineering 1972, and over 300 other publications. *Address:* Technical Univ., Koszykowa 75, Warsaw (Office); ul. Nowowiejska 22 m. 7, 00-665, Warsaw, Poland (Home). *Telephone:* 217466.

GROTOWSKI JERZY; Polish theatre director and teacher of acting; b. 11 Aug. 1933, Rzeszów; s. of Marian Grotowski and Emilia Kozlowska; ed. Faculty of Acting of Państwowa Wyzsza Szkola Teatralna (National Theatrical Acad.) Cracow, Faculty of Stage-directing in Moscow and Cracow; one of the leading exponents of audience involvement, has directed at Teatr Stary (Old Theatre), Cracow 1957-59; Lecturer Nat. Theatrical Acad., Cracow 1959-; Dir. Teatr 13 Rzedów (Theatre Lab.), Opole 1959-64, later called Inst. for Research on Actor's Method-Laboratory Theatre, moving to Wrocław 1965-; worked with R.S.C., London 1966, and at New York Univ.; Dir. Prof. Ecole Supérieure d'Art Dramatique, Aix-en-Provence; Prof. h.c. (Pittsburg) 1973; has run Pan-Scandinavian courses for actors at Odin Teatret, Holstebro, Denmark 1966, 1967, 1968, 1969, and at Stockholm 1966-; at Centre de Stages Grotowski 1976, De la Jenaille, France 1976; manages travelling drama study group (productions and lectures all over the world); Golden Prize, Int. Festival of Theatres in Belgrade 1967, Ministry of Culture of Poland Award for Research into Pedagogics 1967; Drama Desk Award, New York for Apocalypsis cum Figuris 1969-70, Award of Polish Ministry of Foreign Affairs 1970, Main Polish State Award of Research and for Apocalypsis cum Figuris 1972, Smithsonian Inst. Dipl. 1973. *Productions include:* Cain 1960, Dziady 1961, Kordian 1962, Acropolis 1962, Faustus 1963, Hamlet 1964, The Constant Prince 1965, Apocalypsis cum Figuris/collage 1968-69, 1972 (version II), Special Project (Holidays), Staze-Doswiadczenia (Song of Myself), Undertaking Mountain 1977, Undertaking Earth (Part I: Vigil, Part 2: Acting, Part 3: Village) 1977-78. *Publication:* Towards A Poor Theatre 1968. *Leisure interest:* travelling. *Address:* Teatr Laboratorium, 50-101 Wrocław, Rynek Ratusz 27, Poland. *Telephone:* 342-67.

GROUÈS, Henri (called **Abbé Pierre**); French ecclesiastic and philanthropist; b. 5 Aug. 1912; ed. Collège des Jésuites and Univ. of Lyons; entered Capuchin Order 1930; left for health reasons 1938; almoner at the hosp. of La Mure and in charge of the Groupements de Jeunesse and the Orphanage of the Côte Ste. André 1940, vicar of Grenoble 1941; founded an escape org. through the Alps and the Pyrenees, founded the cttee. against forced labour; joined Free French Forces in Algiers as Almoner to the Fleet 1944; Deputy for Meurthe-et-Moselle 1946-51; organized help for the destitute and the homeless and created the Centre d'Emmaüs through an appeal to public opinion; founded the revue Faim et Soif 1954; Chevalier, Légion d'honneur, Croix de guerre (2 citations avec palmes), Médaille de la Résistance, Médaille des Evadés, Médaille des Combattants Volontaires, Médaille des Maquisards Belges. *Publications:* 23 mois de vie clandestine, Vers l'homme, Feuilles éparses (poems), L'Abbé Pierre vous parle, Emmaüs 1959, Pleine vie, Le scandale de la faim interpelle l'église. *Address:* 2 avenue de la Liberté, 94220 Charenton-le-Pont, France. *Telephone:* 368-62-44.

GROUSSARD, Serge, L. ÈS L.; French writer and journalist; b. 18 Jan. 1921, Niort; s. of Col. Georges Groussard and Vera Bernstein; m. Monique Berlioux 1956; two d.; ed. Lycée La Rochelle and Lycée Gouraud, Rabat, Ecole Nat. d'Administration, Ecole Libre des Sciences Politiques, and Univ. de Paris; Chief Reporter Le Figaro 1954-62, L'Aurore 1962-69; Special Contributor Le Figaro 1969-75; Officier Légion d'honneur, Croix de guerre, Médaille de la Résistance, Croix de la Valeur Militaire; Prix Claude Blanchard 1948, Prix International du Grand Reportage 1948, Prix du Roman populiste 1949, Prix Fémina 1950, Grand Prix de la Nouvelle 1957. *Publications:* Crépuscule des vivants 1946, Pogrom 1948, Solitude espangole 1948, Des gens sans importance 1949, La femme sans passé 1950, Talya 1951, La ville de joie 1952, Un officier de tradition 1954, Une chic fille 1956, La belle espérance 1958, Quartier chinois 1958, La passion du Maure 1959, Jeunesse sauvage 1960, Une espionne doit mourir 1962, Les chacals 1964, Mektoub 1968, Tu es soleil 1970, Taxi de nuit 1971, l'Algérie des adieux 1972, La médaille de sang 1973, La guerre oubliée 1974, and others. *Leisure interests:* sport, painting. *Address:* 5 rue de Koufra, 92100 Boulogne-Billancourt, France. *Telephone:* 825-17-43.

GROVER, Amar Nath, M.A., LL.B.; Indian judge; b. 15 Feb. 1912, Shwebo (British Upper Burma); s. of G. L. and S. D. Grover; m. Mrs. Kanta Grover 1937; three s. one d.; ed. Univs. of Punjab, Lahore, Christ's Coll., Cambridge and Middle Temple, London; called to Bar 1936; Barrister, High Court, Lahore 1936-47, later at High Court of E. Punjab, Simla and Chandigarh; Judge, High Court, Punjab 1957-68; mem. Punjab Bar Council 1954-57, Law Comm. (Punjab) 1957; Judge, Supreme Court of India 1968-73; Chair. Finance Cttee. Indian Branch Int. Law Assen.; mem. Governing Body Indian Law Inst. 1970-73; Chair. Cen. Comm. of Inquiry into State Ministers of Karnataka 1978; Consulting Jurist. *Publications:* several articles on various branches of law. *Leisure interests:* golf, reading, fine arts, music (Indian and Western), comparative laws. *Address:* 132 Sunder Nagar, New Delhi 3, India. *Telephone:* 690118.

GROVER, Sir Anthony Charles, Kt., British underwriter; b. 13 Oct. 1907, Harrow, Middx.; s. of Frederick J. and Ruby E. Grover; m. Marguerite B. Davies 1931; one s. one d.; ed. Westminster School; served in Coldstream Guards, rising to rank of Major (mentioned in despatches) 1940-45; Chair. Lloyd's Underwriters' Assen. 1954-56; Deputy Chair. and Treas. Lloyd's Register of Shipping 1956-57, Chair. 1963-73; Deputy Chair. Lloyd's 1958, Chair. 1959-60; Dir. Risdon-Beazley Marine Ltd., Grover-Bolton & Co. Ltd.; Commdr., Order of Léopold II, Order of Orange-Nassau, Order of Dannebrog. *Leisure interest:* golf. *Address:* Dial Cottage, Firbank Lane, St. John's, Woking, Surrey, England. *Telephone:* Woking 73928.

GROVES, Sir Charles, Kt., C.B.E., F.R.C.M.; British musician and conductor; b. 10 March 1915, London; s. of Frederick Groves and Annie Whitehead; m. Hilary Barchard 1948; one s. two d.; ed. St. Paul's Cathedral Choir School, Sutton Valence School, Kent and Royal Coll. of Music; Conductor, BBC Northern Symphony Orchestra 1944-51, Bournemouth Symphony Orchestra 1951-61, Welsh Nat. Opera Co. 1961-63; Conductor, Dir. of Music, Royal Liverpool Philharmonic Orchestra 1963-77; Assoc. Conductor Royal Philharmonic Orchestra 1967-; has toured Europe, U.S.A., S. America, Australia, S. Africa, Japan; numerous TV and radio recordings; conducts all major orchestras in U.K. including opera; Pres. Nat. Fed. of Music Socs. 1972-; Dir. of Music, English Nat. Opera, Coliseum, London 1978-; Hon. D.Mus. (Liverpool), Hon. R.A.M.; Hon. Dr. (Open Univ.). *Leisure interests:* reading, cricket, cigars. *Address:* 12 Camden Square, London, NW1 9UY; and The Athenaeum, 107 Pall Mall, London, S.W.1, England.

GROVES, Wallace, M.A., LL.M.; American financier; b. 20 March 1901, Norfolk, Va.; s. of James S. Groves and Lillie Edwards; m. Georgette Cusson; three s. two d.; ed. Georgetown Univ., Washington, D.C.; admitted Maryland Bar 1925; private legal practice 1925-31; fmr. Pres. and Chair. Phoenix Securities Corpn.; Founder of Freeport, Bahamas; fmr. Chair. Grand Bahama Port Authority, Hon. LL.D (Ursinus Coll., Pa.). *Leisure interests:* yachting, tennis. *Address:* P.O. Box 5, Freeport, Grand Bahama, Bahamas. *Telephone:* (809) 373-2422 (Office).

GROZA, Maria; Romanian professor and politician; b. 1 Sept. 1918, Deva, Hunedoara County; ed. Bucharest Acad. of Econs.; Civil Servant, Ministry of Foreign Affairs 1948-55; Asst. Acad. of Econs., Bucharest 1949-55, lecturer in Social Sciences 1955-; deputy, Grand Nat. Ass. 1965-, Vice-Pres. 1965-75; Vice-Chair. Constitutional and Legal Perm. Cttee. of Grand Nat. Ass. 1975; Sec. Nat. Council of Women of S.R.R. 1958-64, Vice-Pres. 1964-74, mem. Bureau 1974-; Del. to numerous women's int. congresses, UNESCO and UN congresses, confs. and seminars on social and educational problems in Montreal 1960, Grenoble 1964, Helsinki (Vice-Pres.) 1968, Iaşi (Pres.) 1969, World Conf. of Int. Women's Year (Rapporteur General) 1975; mem. Romanian del. to UN Gen. Assembly Sessions XVIII-XXIII,XXV-XXVI. *Publications:* Papers and articles on the social position of Romanian women, and the edu-

cation of youth in Romanian and foreign periodicals. *Address:* Consiliul National al Femeilor, Str. Stefan Gheorghiu 14, Bucharest (Office); 69 Bulevardul Aviatorilor, Bucharest, Romania (Home).

GROZEV, Guero; Bulgarian diplomatist; b. 13 April 1921, Strelcha; m.; two c.; ed. studies in political and social science, Sofia; fmr. Chair. Cen. Cttee. Union of People's Youth and Deputy Minister for Educ. and Culture; entered diplomatic service 1960; Amb. to Czechoslovakia 1960-63; First Deputy Minister for Foreign Affairs 1963-71; Perm. Rep. to UN 1971-76; Deputy to Bulgarian Nat. Assembly; mem. Del. to UN Gen. Assembly 1970. *Address:* c/o Ministry of Foreign Affairs, 1 Slavyanska Street, Sofia, Bulgaria.

GRUBB, Louis Edward, B.A.; American business executive; b. 17 April 1912, Passaic, N.J.; s. of William H. Grubb and Nettie Ralph Arnold; m. Catherine A. Swartz 1936; one s. one d.; ed. Wesleyan Univ., Middletown, Conn.; joined Int. Nickel, Inc. (U.S. subsidiary) 1934, Vice-Pres. 1961; Man. Dir. and later Chair. Henry Wiggin & Co. Ltd., Hereford, U.K. 1964; Man. Dir. and later Chair. Inco Europe Ltd. (fmrly. Int. Nickel Ltd.), London 1967; Exec. Vice-Pres. and Dir., Inco Ltd. 1971, Pres. and Chief Exec. Officer 1972-74, Chair. and Chief Officer 1974-77; Dir. Ashland Oil Inc., Moore Corp. Ltd., Canada Life Assurance Co.; Hon. LL.D. (Marshall Univ., W. Va.) 1976. *Leisure interests:* fishing, golf. *Address:* 1 New York Plaza, New York, N.Y. 10004 (Office); 3 Avenue of Two Rivers South, Rumson, N.J. 07760, U.S.A. (Home). *Telephone:* (212) 742-4522 (Office); (201) 741-0789 (Home).

GRÜBEL, Albert, DR.IUR.; Swiss lawyer; b. 22 March 1918, Basel; s. of Wilhelm and Clara Grübel (née Baumann); m. Jona Bach 1951; ed. High School, Basel and Basel Univ.; Commerce Div., Fed. Dept. of Econs. 1943-51; Swiss Fed. of Trade and Industry 1951-66; Amb., Del. of Swiss Fed. Council for trade agreements 1966-67; Dir. Fed. Office for Industry and Labour 1968-74; Perm. Rep. to OECD 1974-. *Address:* Swiss Delegation to Organisation for Economic Cooperation and Development, 28 rue de Martignac, 75007 Paris, France. *Telephone:* 550.34.46.

GRUBER, Karl J., DR.JUR; Austrian retired politician; b. 3 May 1909, Innsbruck; s. of Peter and Maria (née Rungatscher) Gruber; m. Helga Ahlgrimm 1939; ed. Univs. of Innsbruck and Vienna; Austrian resistance leader 1938-45; Gov. of the Tyrol May-Oct. 1945; State Sec. for Foreign Affairs 1945-46; Minister of Foreign Affairs 1946-53; Amb. to U.S.A. 1954-57; M.P. 1946; Lecturer in Econs., Vienna Univ. 1946-61; fmr. Vice-Pres. OEEC; Special Adviser to Int. Atomic Energy Agency 1958-60; Amb. to Spain 1961-66, to Fed. Repub. of Germany 1966; Sec. of State 1966-69; Amb. to U.S.A. 1970-73, to Switzerland 1973-75; Hon. LL.D. (S. Calif.) 1946; Austrian People's Party. *Publications:* Die Politik der Mitte 1945, Voraussetzungen der Vollbeschäftigung 1946, Zusammenhang zwischen Grösse, Kosten and Rentabilität industrieller Betriebe 1948, Zwischen Befreiung und Freiheit 1953, Ein Politisches Leben. Österreichs Weg zwischen den Diktaturen 1976. *Leisure interests:* sports, underwater photography, reading. *Address:* Rennweg 6A, 1030 Vienna, Austria (Home). *Telephone:* 725801.

GRUBYAKOV, Vasiliy Fyodorovich; Soviet diplomatist; b. 5 May 1911, Kustanai, Kazakhstan; ed. Saratov Univ., Higher Diplomatic School; Second, First Sec., Soviet Embassy in Turkey 1943-45; Consul-Gen. in Istanbul 1945-47; Adviser and Sr. Adviser, Soviet Del. at UN 1953-57; Chief First European Dept., Foreign Ministry 1962-65; Amb. to Belgium 1967-69, to Turkey 1969-74. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

GRUDZIEŃ, Gen. Mieczyslaw, M.A.; Polish politician; b. 1922, Majki, Płock district; ed. Coll. of Political Officers and Military Political Acad.; lived in France and Belgium 1922-47; during World War II activist in French Resistance; returned to Poland and joined the Polish People's Army 1947; various posts in the military party-political machine; recently First Asst. Chief, Political HQ of Polish Army; div. Gen. Oct. 1971-; deputy mem. Cen. Cttee. PZPR/Polish United Workers' Party 1971-75, mem. Cen. Cttee. Dec. 1975-; Minister for Combatants' Affairs June 1972-; Vice-Pres. Chief Council of Union of Fighters for Freedom and Democracy 1974-; mem. Presidium Cen. Bd., Soc. for Polish-Soviet Friendship 1974-. *Address:* Urząd d/s Kombatantów, Aleje Ujazdowskie 6a, 00-461 Warsaw, Poland. *Telephone:* 29-32-81.

GRUDZIEŃ, Zdzisław; Polish politician; b. 6 Oct. 1924, Escaudain, France; ed. Acad. of Mining and Metallurgy, Cracow; Mine-Worker, coal-mines in Belgium and France; activist of leftist labour movt.; mem. French CP 1942-46; during Second World War participated in French resistance; returned to Poland 1946; mem. Polish Workers' Party (PPR) 1946-48, Polish United Workers' Party (PZPR) 1948-; active mem. Rural Youth Union 1949 and Polish Youth Union 1949-56; Head, Propaganda Dept., Voivodship Cttee. PZPR, Katowice 1957-60, Sec. Voivodship Cttee., Katowice 1960-70, First Sec. Dec. 1970-; mem. Cen. Cttee. PZPR 1964-, Deputy mem. Politburo Cen. Cttee. 1971-75, mem. 1975-; Deputy to Seym 1965-; Chair. Seym Comm. of Nat. Defence March 1972-Chair. Voivodship Nat. Council, Katowice 1973-; Order of Builders of People's Poland, Officer's Cross of Polonia Restituta, Order of Banner of Labour (1st and 2nd class), hon. Miner of People's Poland 1978 and other decorations. *Address:* Polska Zjednoczona Partia Robotnicza, Komitet Wojewódzki, Katowice, Poland.

GRUEN, Victor; American architect; b. 18 July 1903, Vienna, Austria; s. of Dr. Adolph Gruenbaum and Elisabeth Levy; m. Kemija Salihefendic 1963; one s. one d. (from previous marriage); ed. Vienna Tech. Inst., and Acad. of Fine Arts; Designer, Supervisor and Co-ordinator with Melcher & Steiner, Vienna 1924-33; independent practice in Vienna, executing a large number of residential and commercial projects 1933-38; designer in New York and Los Angeles 1938-48; in independent practice as Senior Partner, Victor Gruen Assoc. 1948-68; f. Victor Gruen Center for Environmental Planning 1968, Zentrum für Umweltplanung 1973; planning and architectural consultant in France (Préfecture de la Région Parisienne), Belgium (Université Catholique de Louvain), Austria (City of Vienna), Scandinavian countries, Italy, Switzerland, Fed. Repub. of Germany, Spain; has lectured at many univs. and colls. in the U.S.A. and Europe; Fellow, American Inst. of Architects; affiliate mem. American Inst. of Planners, etc.; has exhibited in Washington, Brussels (World Fair), New York, Mexico City, Moscow, Berlin, etc.; Hon. Dr. of Fine Arts, (Pepperdine, Los Angeles) 1976. *Projects include:* about 50 regional shopping centres including Detroit and Minneapolis, Midtown Plaza, Rochester, N.Y.; revitalization plans for Fort Worth, Fresno, Boston and the City of Vienna. *Publications:* Shopping Towns U.S.A. (with Larry Smith), The Heart of Our Cities, Centers for the Urban Environment, Das Überleben der Städte, Die lebenswerte Stadt (The Livable City) 1975, Is Progress a Crime 1975; numerous articles on design, architecture and planning. *Leisure interest:* photography. *Address:* Zentrum für Umweltplanung, 1030 Vienna (Office); Traungasse 7, 1030 Vienna, Austria (Home). *Telephone:* 72-15-35 (Office).

GRUENTHER, Gen. Alfred M.; American army officer (retd.); b. 3 March 1899, Nebraska; s. of Christian and Mary Gruenther; m. Grace Elizabeth Crum 1922; two s.; ed. U.S. Mil. Acad.; routine peacetime assignments 1919-41; Chief of Staff, Third Army 1941-42; Deputy Chief of Staff, Allied Force HQ (London, North African campaign, Algiers) 1942-43; Chief of Staff, Fifth Army (Italian campaign) 1943-44; Chief of Staff, 15th Army Group (Italian campaign) 1944-45; Deputy Commanding Gen. U.S. Forces in Austria 1945; Deputy Commdt., Nat. War Coll. 1945-47; Dir. Jt. Staff, Jt. Chiefs of Staff 1947-49; Deputy Chief of Staff for Plans and Combat Operations, Army Gen. Staff 1949-51; Chief of Staff, SHAPE 1951-53; Gen. Aug. 1951; Supreme Allied Commdr. Europe 1953-56; Pres. American Red Cross 1957-64; Chair. English-Speaking Union of U.S. 1966-68; mem. President's Comm. on Arms Control and Disarmament 1966-69; mem. President's Comm. on Heart Disease, Cancer, Stroke 1964-66; Dir. Pan American World Airways, New York 1960-72, Life Insurance Co. 1960-73, Dart Industries Inc. 1964-77, Federated Dept. Stores Inc. 1964-76, Inst. for Defense Analyses; mem. The Business Council; mem. President's Comm. on an All-Volunteer Armed Force 1969-70; mem. Visiting Cttee. School of Med., Univ. of Miami, Exec. Cttee. Atlantic Council, Electoral Coll.; Hon. degrees from 38 univs. including Harvard, Yale, Dartmouth, Columbia and Holy Cross; D.S.M. (with two Oak Leaf Clusters) (U.S.), Hon. C.B. (U.K.), Grand Croix, Légion d'honneur, Médaille militaire (France), Grand Cordon, Order of Leopold (Belgium), and numerous other int. decorations. *Publications:* The Referee's Analysis of the Decisive Hands of the Lenz-Culbertson Match 1931, Duplicate Contract Bridge Complete 1933. *Leisure interest:* contract bridge (Hon. Pres. World Bridge Fed.). *Address:* Cathedral Apartments, 4101 Cathedral Avenue, N.W., Washington, D.C. 20016, U.S.A. *Telephone:* 202-244-7693.

GRUIJTERS, Johannes Petrus Adrianus; Netherlands politician; b. 30 June 1931, Helmond; m. Jannetje Mol 1936; one s.; ed. Augustinianum, Eindhoven, Municipal Univ. of Amsterdam; Co. Sec. de Wit's Textiel Nijverheid, Helmond (now incorporated in Hatema Texoprint/Gamma) 1953-58; studied 1958-60; Chief Foreign Editor Algemeen Handelsblad 1960-67; Councillor Amsterdam Municipal Council 1962-66; Co-Founder Democraten 1966; mem. State Advisory Cttee. for the Constitution and Electoral Law 1967-71; mem. Provincial States of N. Holland 1970-71; Editor-in-Chief, Het Spectrum, Publrs. 1971-72; mem. Second Chamber 1972-73; Minister of Housing and Physical Planning 1973-77, 1st Chamber States-Gen. 1977-. *Publications:* De doortrekking van het Wilhel-

minakanaal-Daarom D'66, Experimenten in democratie, Nixon-McGovern. *Address:* Van Alkemadelaan 85, The Hague, Netherlands. *Telephone:* 070-246524.

GRUMIAUX, Arthur; Belgian violinist; b. 1921; has appeared at int. music festivals at Glyndebourne, Salzburg, Lucerne, Aix-en-Provence, Strasbourg, and Vienna; soloist with most leading European orchestras, has made tours of America, Japan and Middle East; repertoire includes all the great classical and romantic works for the violin and many modern works including the concertos of Bartok, Berg, Stravinsky and Walton; noted exponent of works of Mozart; records for Philips; Grand Prix du Disque (several), and awards from German and Italian critics. *Address:* c/o Ibbs and Tillett, 124 Wigmore Street, London, W1H 0AX, England. *Telephone:* 01-486 4021.

GRUMMAN, Leroy Randle; American aeronautical engineer; b. 4 Jan. 1895, Huntingdon, New York; s. of George Tyson Grumman and Grace (Conklin) Grumman; m. Rose Werther 1921; one s. three d.; ed. Cornell Univ.; Aeronautical Engineer, Leoning Aeronautical Eng. Corpn., New York 1920-29; Pres. Grumman Aircraft Corpn. 1930-46, Chair. Bd. of Dirs. 1946-66, Hon. Chair. 1966-; Hon.Eng.D. (Brooklyn Polytechnic Inst.), Hon. LL.D. (Adelphi Coll.); Presidential Medal for Merit 1945, Daniel Guggenhaim Medal 1948, Frank M. Hawks Memorial Award 1958, enshrined in Aviation Hall of Fame 1972. *Address:* Grumman Corporation, South Oyster Bay Road, Bethpage, Long Island, N.Y. (Office); 77 Bayview Road, Plandome, N.Y. 11030, U.S.A. (Home). *Telephone:* 516-575-0574.

GRÜMMER, Elisabeth: German soprano opera singer; b. 1921; ed. drama school, Meiningen and musical studies in Aachen; engaged at Stadttheater, Aachen 1941, Städtische Oper, Duisburg 1941, Staatsoper, Berlin 1948, Deutsche Oper, Berlin, West Berlin 1961-; has made appearances at many foreign opera houses; Prof. Staatliche Hochschule für Musik und Darstellende Kunst, Berlin; awarded title of Kammersängerin; Berliner Kunstpreis 1965. *Address:* Am Schlachtensee 104, 1 Berlin 38, Federal Republic of Germany.

GRÜNBAUM, Henry; Danish economist and politician; b. 27 July 1911; ed. Københavns Universitet; fmr. engraver; Sec. Econ. Council Danish Labour Movement 1938-40; Statistician of Trade Unions Congress 1940-48; mem. Resistance Movements Liaison Cttee., Stockholm 1944-45; Econ. and Political Columnist on Social-Demokraten (daily, now Aktuelt) 1949-56; Econ. Adviser to Danish Gen. Workers Union 1956-64, and Editor-in-Chief of Danish Gen. Workers Union bi-weekly periodical 1962-64; Minister of Econ. and Scandinavian Affairs 1964-65, Minister of Finance 1965-68, 1971-73; mem. of Parl. Nov. 1966; mem. Bd. Econ. Soc. 1959-65; Commr. of Audit 1976. *Publications:* Industrial Democracy, Consumers Price-Index and Wages. *Address:* Torvegade 47, 1400 Copenhagen, Denmark.

GRÜNEBERG, Gerhard; German politician; b. 29 Aug. 1921, Lehnin; ed. elementary school and building studies; bricklayer 1939-41, 1945-46; war service and prisoner-of-war 1941-45; official in Socialist Unity Party, SED 1946-; First Sec. Frankfurt/Oder District Cttee. 1952-58; Sec. Cen. Cttee. SED 1958-; Candidate mem. Politburo 1959-66, mem. 1966-; mem. Agricultural Council of Council of Ministers 1962-63; mem Volkskammer 1958-, mem. Comm. for Foreign Affairs 1958-63; mem. Nat. Council of Nat. Front 1958-; Vaterländischer Verdienstorden in Silver, in Gold (twice) and other decorations. *Address:* Sozialistische Einheitspartei Deutschlands, 102 Berlin, Am Marx-Engels-Platz 2, German Democratic Republic.

GRUNERT, Horst DR.RER.POL.; b. 10 April 1928, Berlin; ed. German Acad.of Law.Official in Ministry of Foreign Affairs 1951–; Head (general Consul) in Syria 1965-68; Dir. of Information and Documentation of Ministry 1968-72; Perm. Rep. to UN 1972-74; Deputy Foreign Minister Feb. 1974-; Amb. to U.S. and Canada 1978-;mem. SED; Vaterländische Verdienstorden in Bronze, Verdienstmedialle der DDR and other decorations. *Address:* Embassy of the German Democratic Republic, 1717 Massachusetts Avenue, Washington, N.W. 20036, U.S.A.

GRÜNEWALD, Herbert, DR.RER.NAT.; German chemical industry executive; b. 12 Sept. 1921, Weinheim; m. Ilse Cramer 1956; four c.; ed. Univs. of Heidelberg and Frankfurt-am-Main; with Bayer AG, Leverkusen 1956-, Production Man. and Dir. Intermediate Div. 1964, mem. Man. Bd., Head of Personnel and Social Welfare 1968, Chair. Man. Bd. July 1974-; Chair. Man. Bd Carl-Duisberg-Gesellschaft GmbH 1971; mem. Advisory Bd. Agfa Gevaert AG 1973, Schloemann Siemag AG 1973, DEGUSSA 1974, Erdölchemie 1974, Chemische Werke Hüls AG (Chair. 1978). *Address:* 509 Leverkusen-Bayerwerk (Office); Ludwig-Girtler-Strasse 11, 509 Leverkusen, Federal Republic of Germany (Home). *Telephone:* (2172) 30-67-72 (Office).

GRUNFELD, Henry, LL.D.; British (b. German) banker; b. 1 June 1904, m. Berta Lotte Oliven 1931; one s. one d.; Man. New Trading Co. Ltd. 1938; Man. S. G. Warburg & Co. Ltd. 1946, Dir. 1951-, Chair. 1969-74, Pres. 1974-; Chair. Mercury Securities Ltd. 1964-74, Pres. 1974-. *Address:* 30 Gresham Street, London, England EC2P 2EB. *Telephone:* 01-600 4555.

GRUNWALD, Ernest, PH.D.; American professor of chemistry; b. 2 Nov. 1923, Wuppertal, Germany; ed. Univ. of California, Los Angeles; Research Chemist, Portland Cement Assn. 1947; Research Fellow, Columbia Univ. 1948; Assoc. Prof., later Prof., Florida State Univ. 1949-60; Research Chemist, Bell Telephone Labs. 1960; Prof. of Chemistry, Brandeis Univ. 1964-; Assoc. Editor, Journal of American Chem. Soc.; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Chaim Weizmann Fellowship 1955, Alfred P. Sloan Fellowship 1958-60, Guggenheim Fellowship 1975-76; American Chem. Soc. Award in Pure Chem. *Address:* Department of Chemistry, Brandeis University, Waltham, Mass. 02154, U.S.A.

GRUSHIN, Pyotr Dmitriyevich; Soviet aviation specialist; b. 15 Jan. 1906, Volsk, Sarator Region; ed. Moscow Aviation Inst.; mem. CPSU 1931-; leading engineer in aircraft industry 1932-; Dean of Dept. Moscow Aviation Inst. 1948-51; Dir. Aircraft Plant 1953-; mem. Cen. Cttee. CPSU 1966-; Deputy to Supreme Soviet of the U.S.S.R.; corresp. mem. U.S.S.R. Acad of Sciences 1962-66, mem. 66-; Hero of Socialist Labour 1958, Lenin Prize 1963, Order of Lenin (five), Order of the October Revolution and other decorations. *Publications:* works on aerodynamics and aircraft construction. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

GRÜTZNER, Erich; German chemical worker, social scientist and politician; b. 30 July 1910, Purna; mem. CP 1932-46, Sozialistische Einheitspartei Deutschlands 1946-; mem. Volkskammer 1958-; Chair. Leipzig District Council 1959-74; mem. Council of State 1960-76; Vaterländischer Verdienstorden in Gold, Order "Banner der Arbeit" and other decorations. *Address:* Leipzig, German Democratic Republic.

GSCHEIDLE, Kurt; German engineer and politician; b. 16 Dec. 1924, Stuttgart; s. of Georg and Emma Maria Gscheidle (née Schloz); m. Elisabeth Scharnhorst 1953; one s., ed. REFA Inst., Sozialakademie; telecommunications technician, Fed. Postal Service 1948; Head, Secr. for Tech. and Econs., Postal Workers' Union 1953-57, Vice-Pres. Postal Workers' Union 1957-69; mem. SPD 1956-; mem. Bundestag (Parl.) 1961-; Sec. of State, Fed. Ministry of Posts 1969-74; Fed. Minister of Traffic, Posts and Telecommunications 1974-; Grosses Bundesverdienstkreuz 1976. *Publications:* books on industrial organization and personnel management. *Leisure interests:* cooking, tennis. *Address:* Kennedy Allee 72, 53 Bonn-Bad Godesberg, Federal Republic of Germany. *Telephone:* 02221-86200; 02221-145500.

GUARNIERI, Roberto; Venezuelan economist and international official; b. Florence, Italy; s. of Raffaello Guarnieri and Livia Cammilli; m. Silene Fernández Colmenter 1963; one s. one d.; ed. Univ. Central de Venezuela, Yale Univ., Pembroke Coll., Oxford Univ.; Economist, Banco de Venezuela 1963-67, Adviser to Pres. 1967-72; Dir. of Econ. Research, Ministry of Finance 1972-74; Adviser to Minister of Mines and Hydrocarbons 1971-74; Exec. Dir. IBRD 1974; Alt. Exec. Dir. IMF 1974-76, Exec. Dir. 1976-78; Minister, Embassy in U.S.A. 1974-; Comendador, Orden del Libertador. *Address:* Embassy of Venezuela, 2445 Massachussets Avenue, N.W., Washington, D.C., U.S.A. *Telephone:* 265-9600.

GUAYASAMIN CALERO, Oswaldo; Ecuadorean painter; b. 1919; ed. Escuela de Bellas Artes, Quito; first exhbn. 1940; toured U.S.A. 1942; visited U.S.S.R. and China; paints portraits and murals; Bienal de España Prize 1955, Mexican prize 1960. *Address:* c/o Escuela de Bellas Artes, Quito, Ecuador.

GUAZZUGLI MARINI, Giulio, DR.PH.; Italian atomic energy administrator; b. 1914; m. Maria Fantozzi 1940; one s. one d.; ed. Rome Univ.; Asst. Prof. of Phil., Rome Univ. 1937-47; Personal Sec. to Signor Carlo Sforza, Minister of Foreign Affairs 1947-49; official at Council of Europe, Strasbourg 1949-53; Dir., Secretariat, Council of Coal and Steel Community 1953-57; Exec. Sec. EURATOM Comm. 1958-67; Dir.-Gen. European Community Joint Research Centre 1968-71; Special Adviser to the Comm. of the European Communities 1971-. *Leisure interest:* sailing. *Address:* 19 Passeggiata di Ripetta, Rome, Italy. *Telephone:* 87-87-98.

GUCWA, Stanislaw; Polish politician; b. 18 April 1919, Przybysławice; s. of Jan Gucwa and Maria Opitta; m. Maria Gucwa 1946; two d.; ed. Acad. of Political Science, Warsaw; Man. posts in Cen. Bd. of Flour Milling Industry and in Ministry of Food 1948-56; Under-Sec. of State Ministry of Agriculture 1957-68; Minister of Food Industry 1968-71; Vice-Chair. State Council 1971-72; mem. Peasant Party 1945-49, United Peasant Party 1949-; mem. Presidium Cen. Cttee. 1959-71, Chair. Presidium and Secr. of Cen. Cttee. 1971-; Deputy to Seym (Parl.) 1961-, Marshal 1972-; mem. Presidium All-Polish Cttee. of Nat. Unity Front June 1971-; Order of Banner of Labour (1st Class), Commdr. Cross, Order Polonia Restituta, Gold Cross of Merit, Medal of Georgi Dymitrov, Order of Builders of People's Poland 1974, and other decorations. *Address:* Zjednoczone Stronnictwo Ludowe, ul. Grzybowska 4, 00-131 Warsaw, Poland.

GÜDEN, Hilde; Austrian opera singer; b. 15 Sept. 1917; ed. High School, and Acad. of Music; mem. Vienna State Opera, La Scala, Milan 1947-, Metropolitan Opera, New York 1951-; Deutsche Oper Berlin, West Berlin; Head of Opera Studio, Vienna State Opera 1976-; Festivals Salzburg, Edinburgh, Glyndebourne, etc.; toured Europe, U.S.A., Canada, Japan; awarded title of Kammersängerin by the Pres. of Austria 1950; Grand Cross for Science and Art 1959, Cross of Order of Dannebrog 1962, awarded Decca Golden Record 1958, Vienna Phil. Orch. Silver Rose 1959, Golden Oscar of Acad. du Disque Français 1961, Hon. mem. of Vienna State Opera 1972, Grand Cross of Honour 1972, Golden Orpheus, Acad. de Lyrique, Paris; Golden Badge of Honour (Vienna) 1978; Hon. Prof. *Address:* c/o Staatsoper, Vienna, Austria.

GUDMUNDSSON, Gudmundur I., CAND.IURIS; Icelandic lawyer and politician; b. 17 July 1909, Hafnarfjordur; m. Rosa Ingolfsdóttir 1942; five s.; ed. Reykjavík Coll., and Univ. of Iceland; law practice 1934-45; Supreme Court Attorney 1939-45; District Judge, Hafnarfjordur 1945-56; mem. Althing 1942-65; Minister for Foreign Affairs 1956-65, Minister of Finance 1958-59; Amb. to U.K., Netherlands, Spain and Portugal 1965-71, to Nigeria 1971, to U.S.A., Canada, Mexico, Brazil, Argentina, Cuba 1971-73, to Sweden, Finland, Austria, Yugoslavia 1973-77, to Belgium, Luxembourg, the EEC and NATO 1977-; Commdr. with Star, Order of Icelandic Falcon, Grand Cross White Rose (Finland), Grand Cross St. Olav (Norway), Hon. K.B.E., and many other decorations; Labour. *Address:* Icelandic Embassy, 19 ave. des Lauriens, 1150 Brussels, Belgium. *Telephone:* 215-10-35 (Office); 731-11-87 (Home).

GUDMUNDSSON, Kristmann; Icelandic writer; b. 23 Oct. 1901, Borgarfjördur; s. of Sigridur Björnsdottir and Gudmundur Jonsson; m. Holmfridur H. Mariasdottir; four d.; writes in Icelandic and Norwegian; his novels have been translated into 36 languages; Order of Icelandic Falcon. *Publications:* Poems of Twilight 1922, Icelandic Love 1926, The Bridal Gown 1927, Armann and Vildis 1928, Morning of Life 1929, Sigmar 1930, The Blue Coast 1931, The Sacred Mountain 1932, Early Spring 1933, White Nights 1934, Children of Earth 1935, The Lamp 1936, The Goddess and the Bull 1938, The Sneering Stonemonster 1943, Comrade Woman 1947, An Evening in Reykjavík 1948, Scarlet Mist (2 vols.) 1950-52, The Tragedy at Osterby 1955, Poems from Kristmann 1955, History of World Literature (2 vols.) 1955-56, The Little Café 1958, A Voyage to the Stars 1959, Adventures in Space 1959, Autobiography (4 vols.), The Black Isolde 1959, Norwegian Idyll 1960, My Botanical Garden 1961, The White Flame 1961, The Golden Isolde 1962, Playthings 1962, The Centre 1965, Winter Days 1966, Blue Eyes (short story collection) 1968, The Great Carpenter 1969, Summer in Selavik 1970, The Smile. *Leisure interests:* philosophy, religion, history, astronomy, botany and literature. *Address:* P.O. Box 615, Tomasarhaga 9, Reykjavík, Iceland. *Telephone:* 15048.

GUEBEILY, Mohammed Abdel Maaboud El-, B.SC.; Egyptian nuclear scientist; b. 5 Feb. 1921; ed. Cairo Univ. and Curie Laboratory, Paris; Chemist in Chemical Dept., then Demonstrator in Faculty of Science, Cairo Univ. 1946-52; at Inst. for Atomic Energy, Norway 1956; Asst. Prof. of Nuclear Chem., U.A.R. Atomic Energy Establishment 1957, Head of Nuclear Chem. Dept. 1958, Dir. of Tech. Bureau of Nuclear Power Reactor Project 1963, Dir. Egyptian Atomic Energy Establishment 1965, also Chair. of Supreme Cttee. for Nuclear Power Reactor; Chair. Joint Arab Scientific Council for Utilization of Atomic Energy for Peaceful Purposes; mem. Supreme Council for Scientific Research; mem. Scientific Advisory Cttee. of Int. Atomic Energy Authority (IAEA); attended numerous UN confs. on atomic energy; Hon. D. ès Sc. *Publications:* Many scientific papers. *Address:* Atomic Energy Establishment, Cairo, Egypt.

GUEDEN, Hilde (see Grüden, Hilde).

GUÉNA, Yves René Henri; French politician; b. 6 July 1922, Brest; m. Oriane de la Bourdonnaye 1945; five s. two d., ed. Ecole Nat. d'Administration; Official in Morocco 1947- Maître des Requêtes, Conseil d'Etat 1957- Dir. de Cabinet to M. Debré (Minister of Justice) 1958-59, Dep. Dir. de Cabinet to M. Debré (Prime Minister) Jan.-July 1959; High Commr. Ivory Coast 1959-60, Envoy Extraordinary (Dean of Diplomatic Corps) 1960-61; Deputy for Dordogne 1962-; Minister of Posts and Telecommunications 1967-68; 1968-69, of Information May-July 1968, of Transport 1973-74, of Industrial and Scientific Devt., March-May 1974; Deputy Sec.-Gen. UDR 1974-75, Del.-Gen. 1975-76, Sec.-Gen. April-Dec. 1976, Del. RPR (fmrly UDR) Dec. 1976-; Mayor of Périgueux (Dordogne) March 1971-; Conseiller d'Etat 1972; Commdr., Légion d'honneur, Croix de guerre, Médaille de la Résistance. *Publications:* Historique de la communauté 1962, Maintenir l'état 1970, L'enjeu (in collaboration) 1975. *Address:* 186 avenue Victor Hugo, 75116 Paris, France.

GUÉRIN, André Paul; French journalist; b. 1st Dec. 1899; ed. Collège de Flers, Lycée de Rennes, Caen Univ., and Ecole Normale Supérieure, Univ. of Paris; on staff of L'Oeuvre 1922-39; Editor L'Aurore 1946-68, Political Dir. 1969-75, mem. Editorial Cttee. 1971-; Sec.-Gen. Féd. int. de la presse de langue française; Officier, Légion d'honneur, Croix de guerre. *Publications:* Manuel des Partis politiques en France 1928, Normandie champ de bataille de la libération 1954, Vacances en Normandie 1957, Opération Bergère 1961, "1871" La commune 1966, La folle guerre de 1870 1970, La vie quotidienne en Normandie au temps de Madame Bovary 1975; *Address:* 100 rue de Richelieu, 75002 Paris (Office); 8 place de l'Abreuvoir, 78160 Märly-le-Roi, France (Home). *Telephone:* 958-47-75 (Home).

GUÉRIN, Daniel; French writer; b. 19 May 1904, Paris; s. of Marcel and Juliette Guérin; m. Marie Fortwängler 1934; one d.; ed. Lycée Louis-le-Grand, Ecole des Sciences Politiques; journalist, writer, sociologist, historian; Founder, Centre laïque des auberges de jeunesse; Cultural Adviser, Théâtre des Nations; mem. French Inst. of Sociology, Comm. d'Histoire Economique et Sociale de la Révolution Française. *Publications:* Le livre de la dix-huitième année 1922, L'enchantement du Vendredi-Saint 1925, La vie selon la chair 1928, La peste brune a passé là 1933, Fascisme et grand capital 1936, Le lutte de classes sous la 1ère république 1946, Où va le peuple américain? 1951, Au service des colonisés 1954, Kinsey et la sexualité 1955, Les Antilles décolonisées 1956, Jeunesse du socialisme libertaire 1959, Shakespeare et Gide en correctionnelle? 1959, Eux et lui 1962, Front Populaire révolution manquée 1963, Décolonisation du noir américain 1963, Sur le fascisme 1965, Un jeune homme excentrique 1965, L'anarchisme 1965, L'Algérie qui se cherche, L'Algérie caporalisée 1964, Ni Dieu ni maître 1966, Le mouvement ouvrier aux Etats-Unis de 1866 à nos jours 1968, Pour un marxisme libertaire 1969, Essai sur la révolution sexuelle 1969, La révolution française et nous 1970, La concentration économique aux U.S.A. 1971, Rosa Luxemburg et la spontanéité révolutionnaire 1971, Autobiographie de jeunesse 1972, De l'oncle Tom aux panthères, Bourgeois et bras nus, Ci-gît le colonialisme 1973, Les assassins de Ben Barka 1975; Editor: Rosa Luxemburg le socialisme en France 1971, Trotsky sur la deuxième guerre mondiale, Gaugin Oviri écrits d'un sauvage 1974, Fourier vers la Liberté en Amour 1975, Le feu du sang (autobiography) 1977, Proudhon oui et non 1978, Son testament 1979, Quand l'Algérie s'insurgeait 1979; Plays: Le grain sous la neige 1961, Vautrin 1962; works translated into several languages. *Leisure interests:* reading, travel, theatre, cinema. *Address:* 10 Square de Port-Royal, 75013 Paris, France. *Telephone:* 331-43-22.

GUÉRON, Jules; French atomic scientist; b. 2 June 1907; Tunis; s. of Lazare Guéron and Louise Bornstein; m. Geneviève Bernheim; three s.; ed. Lycée Charlemagne, Paris, and Univ. de Paris à la Sorbonne; Lecturer, Univ. of Strasbourg 1938, Asst. Prof. 1946-69 (on leave since 1947); with Tube Alloys 1941-46; Head of Service Commissariat of Atomic Energy 1946-49, Dir. Commissariat of Atomic Energy 1949-58, Dir. Centre de Saclay 1951-54, Dir. of Gen. Programme 1954-58 Head Physical-Chem. Dept. 1949-58; Dir.-Gen. Research EURATOM 1958-68; Lecturer, Conservatoire Nat. des Arts et Métiers 1951-61; Prof. Faculté des Sciences d'Orsay 1969-76; mem. and Sec. Comm. on Atomic Weights, Int. Union of Pure and Applied Chem. 1960-69; Prix Adrian, Chemical Soc. of France 1935, Chevalier, Légion d'honneur. *Publications:* about 100 scientific and gen. publications. *Address:* 15 rue de Siam, 75016 Paris, France. *Telephone:* 504-09-89.

GUERRERO, Leon Maria; Philippine diplomatist; b. 24 March 1915, Manila; s. of Alfredo L. Guerrero and Filomena Francisco; m. 1st Anita Corominas (deceased); m. 2nd Margaret Burke, one s.; ed. Ateneo de Manila, Philippine Law School, Manila; Assoc.

Editor, Philippines Free Press 1935-40; Office of Solicitor-Gen. 1940; served army 1940-45; Chief of Protocol, Dept. of Foreign Affairs 1946; Legal and Legis. Counsel, Philippines Senate 1948; Under-Sec. of Foreign Affairs 1954; Amb. to U.K. (concurrently Minister to Norway, Sweden, Finland and Denmark) 1954-61, to Spain 1961-66, to India (concurrently to Nepal, Afghanistan) 1966-72, to Mexico (concurrently to Colombia, Cuba, Ecuador, Panama, Venezuela and the Central American republics) 1973-77, to Yugoslavia 1977-; Chair. Philippine Trade Mission and Minister to Fed. Repub. of Germany 1955; Amb. Extraordinary to Independence Celebrations of Ghana 1957; Del. UN Gen. Assembly 1959, 1973-77; Vice-Chair. Int. Sugar Council 1959, Chair. 1960; Chair. Philippine Del. to Int. Sugar Confs. 1958, 1962, 1968; Vice-Chair. Philippine Del. to UNCTAD 1968; Chair. Philippine Del. to Non-Aligned Foreign Ministries Conf., Belgrade 1978. *Publications:* Twilight in Tokyo 1946, Passion and Death of the USAFFE 1947, Report from Europe 1950, The Young Rizal 1952, Our Foreign Relations 1952, Alternatives for Asians 1957, An Asian on Asia 1958, Noli Me Tangere 1960, El Filibusterismo 1961, El Si y El No 1963, The First Filipino 1963, The Philippine Revolution 1969, Prisoners of History 1972, Today Began Yesterday 1975. *Address:* Embassy of the Philippines, Tolstoyeva 47, Belgrade, Yugoslavia.

GUERRI, H.E. Cardinal Sergio; Italian ecclesiastic; b. 25 Dec. 1905, Tarquinia; ordained Roman Catholic priest 1929; cr. Cardinal 1969; Pro-Pres. Pontifical Comm. for the State of the Vatican City. *Address:* 00120 Stato Città del Vaticano, Rome, Italy.

GUEST, Baron (Life Peer), cr. 1961; **Rt. Hon. Christopher William Graham Guest,** M.A., LL.B.; British lawyer; b. 7 Nov. 1901, Edinburgh; s. of Edward G. and Mary C. Guest; m. Catherine Geraldine Hotham 1941; four s. one d.; ed. Merchiston Castle School, Edinburgh, Clare Coll., Cambridge and Univ. of Edinburgh; Advocate, Scottish Bar 1925; Barrister, Inner Temple 1926; K.C. 1945; Sheriff of Ayr and Bute 1951, of Perth and Angus 1953; Dean, Faculty of Advocates 1955; Senator, Coll. of Justice 1957; Lord of Appeal in Ordinary 1961-71; Hon. Fellow, Clare Coll., Cambridge; Hon. LL.D. (Dundee) 1973. *Leisure interests:* fishing, golf, reading. *Address:* 22 Lennox Street, Edinburgh 4, Scotland.

GUEST, Douglas, C.V.O., M.A., MUS.B., F.R.C.M., HON.R.A.M., HON. F.R.C.O., F.R.S.C.M.; British organist and conductor; b. 9 May 1916, Mortomley, Yorkshire; s. of Harold and Margaret Guest; m. Peggie Falconer 1941; two d.; ed. Reading School, Royal Coll. of Music and King's Coll., Cambridge (Organ Scholar); War Service as Major, Royal Artillery 1939-45; Dir. of Music, Uppingham School 1945-50; Organist and Master of Choristers, Salisbury Cathedral 1950-57, Worcester Cathedral 1957-63; Conductor of The Three Choirs Festival 1957-63; Organist and Master of Choristers Westminster Abbey 1963-; Prof. Royal Coll. of Music 1963-. *Composition:* Missa Brevis 1957. *Leisure interest:* fly-fishing. *Address:* 8 The Little Cloister, Westminster Abbey, London, S.W.1, England. *Telephone:* 01-222 6222.

GUEST, George Howell, M.A., MUS.D., F.R.C.O., F.R.S.C.M.; British (Welsh) musician; b. 9 Feb. 1924, Bangor; s. of Ernest Joseph and Gwendolen Guest; m. Nancy Mary Talbot 1959; one s. one d.; ed. Friar's School, Bangor, King's School, Chester, St. John's Coll. Cambridge; Chorister, Bangor Cathedral 1933-35, Chester Cathedral 1935-39; served R.A.F. 1942-46; organ student, St. John's Coll. Cambridge 1947-51, Fellow and Organist 1951-, Univ. Lecturer in Music 1956-; Prof. of Harmony and Counterpoint, Royal Acad. of Music 1960-61; Special Commr., Royal School of Church Music; Examiner, Assoc. Board of Royal Schools of Music; Dir. of Studies in Music at St. John's, Emmanuel, Queen's and Downing Colls., Cambridge; Pres. Royal Coll. of Organists 1978; Hon. mem. of Gorsedd of Nat. Eisteddfod of Wales. *Publications:* various articles in musical journals. *Leisure interest:* yr iaith Gymraeg. *Address:* St. John's College, Cambridge; 9 Guerney Way, Cambridge, England (Home). *Telephone:* (0223) 61621 (College); 54932 (Home).

GUGGENHEIM, Peggy; American art collector; b. 26 Aug. 1898; ed. Jacobi School, New York; opened Guggenheim Jeune Art Gallery, London 1938-39; Art of this Century Gallery, New York 1942-46; Museo Palazzo Venier dei Leoni, Venice 1951-; exhbns. of private collection throughout Europe 1951-, London 1965; Hon. Citizen of Venice 1962. *Publications:* Out of this Century 1946, Una Collezionist Ricorda 1956, Confessions of an Art Addict 1960. *Address:* Palazzo Venier dei Leoni, 701 San Gregorio, Venice, Italy.

GUHA, Mrs. Phulrenu, D.LITT.; Indian social worker; b. 13 Aug. 1911; d. of the late Surendranath and Abala Bala Datta; m. the late Dr. Biresh Chandra Guha 1943; ed. Calcutta Univ. and Univ. de Paris à la Sorbonne; participated in Freedom Movement since early days; social worker, West Bengal, for over fifty years, actively associated with relief, social and children's welfare, family planning, defence aid, social health; undertook relief work during Bengal famine 1943, Noakhali 1946, Calcutta 1947-; Sec. United Council of Relief and Welfare, West Bengal; Chair. W. Bengal Social Advisory Bd. 1959-67, Cttee. on Status of Women in India; Gen. Sec. and Vice-Pres. All India Women's Conf.; mem. Rajya Sabha 1964-70; Union Minister of State for Social Welfare 1967-70; Pres. Indian Council for Child Welfare; Adviser Sanyal Inst. of Social Welfare and Business Man.; mem. Cen. Social Welfare Bd. 1971-, All India Congress Cttee., Gov. Bodies of Colls. in Delhi, Calcutta. *Publications include:* Participation of Women in India's Economy, Rammohan to Vivekanda, Role of Voluntary Organizations in Promoting Nutrition to Pre-school Children. *Leisure interests:* travelling, music, handicrafts, reading. *Address:* 55/5 Purna Das Road, Calcutta 700 029, India.

GUI, Luigi; Italian politician; b. 26 Sept. 1914, Padova; s. of Corinto Gui and Angelina Pinzan; m. Alessandra Volpi 1947; three s; war service, Italy and Russia 1941-43; Christian Democrat underground movement 1943-45; elected to Constituent Assembly 1946, re-elected 1948, 1953, 1958, 1963, 1968, 1972, 1976; fmr. Sec. of the Parl. Comm. on Agric. and Under-Sec. Ministry of Agriculture and Forestry; Minister of Labour 1957-58; of Educ. 1962-68, of Defence 1968-70, of Health 1973-74, of Civil Service Reform March-Nov. 1974, of Interior 1974-76; Pres. Christian Democrat Deputies Parl. Group 1958-62; Senate 1977, Pres. 1st Comm. on Constitutional affairs. *Publications:* works on history of philosophy, political history and travel. *Address:* Via Eufrate 33, Rome, Italy. *Telephone:* 6793381.

GUIBERT, Roger, D. EN D.; French railways executive; b. 15 April 1907, Paris; s. of André Guibert and Louise née Hallopeau; m. Yvonne Thillaye 1928; two s. four d.; ed. Ecole Polytechnique; Engineer for Roads and bridges, Highways Dept., Strasbourg 1931-34; Principal Engineer, Chemins de fer du Nord 1935; Chief Engineer, Commercial Service of Société Nationale des Chemins de fer Français (SNCF) 1944; Dir. Western Region, SNCF 1958; Deputy Dir.-Gen. SNCF 1958, Dir.-Gen. 1966-74; Commdr., Légion d'honneur, *Publications:* Le nouveau statut des transports routiers 1939. Service public et productivité 1956, La SNCF: cette inconnue 1969. *Address:* 1 rue Villebois Mareuil, 75017 Paris, France.

GUICHARD, Baron Olivier Marie Maurice; French politician; b. 27 July 1920; ed. Univ. de Paris and Ecole libre des sciences politiques; mem. Rassemblement du peuple français, and Principal Sec. to Gen. de Gaulle 1947-48; Press Officer Atomic Energy Commissariat 1955-58; Asst. Dir. Office of Gen. de Gaulle 1958, Tech. Adviser to the Pres. 1959-60; Del Gen. of Org. des régions sahariennes 1960-62; Gen. Asst. Office of the Prime Minister 1962-67; Del. for Regional and Territorial Affairs 1963-67; mem. Nat. Assembly 1967, 1974-; Minister of Industry 1967-68, of Econ. Planning 1968-69, of Educ. 1969-72, of Supply 1972-73, of Supply, Housing, Tourism and Territorial Devt. 1973-74, of Transport March-May 1974; Minister of State, Keeper of the Seals, and Minister of Justice 1976-77; Conseiller d'Etat 1978-; Dir. Compagnie nationale du Rhône 1966-67; mem. Council of Admin. Radiodiffusion-Télévision française 1964-67; Médaille militaire, Officier, Légion d'honneur, Croix de guerre. *Publications:* Aménager la France 1965, Education nouvelle 1971, Un chemin tranquille 1975. *Address:* 12 avenue Bugeaud, 75116 Paris, France.

GUIDOTTI, Salvatore, D.ECON.; Italian politician; b. 1 Oct. 1912, Naples; ed. Naples Univ.; Econ. Consultant to Soc. Meridionale di Elettricita 1936-44; Prof. of statistics 1945; Counsellor for statistics, Treasury Dept., 1945-46; Bank of Italy, Chief Econ. Research Dept., rising to Central Man. and Econ. Counsellor to the Gov. 1947-65; Gen. Man., Banco di Napoli 1965; assisted in drawing up Vanoni Plan and Five-Year Econ. Devt. Plan; mem. Comm. for Study of Public Expenditure, Public Savings and the Money Market 1966-; founder mem. and Vice-Pres. ISCO (Italian Inst. for the Study of the Current Econ. Situation); Italian Rep. to OECD Cttee. on Political Econ. and Vice-Pres. Jt. Policy Cttee. of EEC; Dir. European Investment Bank. *Publications:* numerous books and articles on statistics, economics and finance. *Address:* c/o Banco di Napoli, Via Toledo 177, Naples, Italy.

GUIGA, Driss, L. EN D.; Tunisian politician; b. 21 Aug. 1924, Testour; m. four c.; ed. Sadiki Coll., Tunis; Called to Bar, Tunis; Chef de Cabinet, Ministry of Public Health 1952; Dir. Nat. Security until 1963; Dir.-Gen. of Tourism and Thermal Affairs 1963; Sec. of State for Public Health Sept.-Nov. 1969; Minister of Public Health 1969-73, of Nat. Educ. 1973-76; Amb. to Fed. Repub. of Germany 1977-; mem. Destour Socialist Party 1943-, has held several party posts, currently mem. Cen. Cttee. *Address:* Embassy of Tunisia, Bonn-Bad Godesberg, Kölnerstrasse 103, Federal Republic of Germany; Destour Socialist Party, boulevard 9 avril 1938, Tunis, Tunisia.

GUILFORD, Joy Paul, PH.D., LL.D., SC.D.; American psychologist; b. 7 March 1897, Marguette, Neb.; s. of Edwin Augustus Guilford and Arvilla Monroe; m. Ruth Sheridan Burke 1927; one d.; ed. Aurora (Nebraska) High School, Univ. of Nebraska and Cornell Univ.; Instructor in Psychology, Univ. of Illinois 1926-27; Asst. Prof. of Psychology, Kansas Univ. 1927-28; Assoc. Prof. and Prof., Univ. of Nebraska 1928-40; Dir. Bureau of Instructional Research, Univ. of Nebraska 1938-40; Prof. of Psychology, Univ. of S. Calif. (on leave 1942-46) 1940-67; Aviation Psychologist, U.S. Army Air Forces, Dir. of Psychological Research Units 1942-46; Dir. Aptitudes Research Project, Univ. of S. Calif. 1949-69; mem. Nat. Acad. of Sciences 1954-; Pres. Int. Soc. for Intelligence Educ. 1977-79; Pres. American Psychological Assn. (A.P.A.) 1949-50; Bingham Memorial Lecturer 1959; Distinguished Scientific Contribution Award, A.P.A. 1964, Richardson Creativity Award, A.P.A. 1966, Founders Medal, Creative Educ. Foundation 1970, Award for Contributions to Educ. and Psychological Measurement, Educ. Testing Service 1974, E. L. Thorndike Award 1976. *Publications:* Psychometric Methods 1936, General Psychology 1940, Fundamental Statistics in Psychology and Education 1942, Personality 1959, The Nature of Human Intelligence 1967, The Analysis of Intelligence 1971, Way Beyond the I.Q. 1977, Cognitive Psychology with a Frame of Reference 1979. *Leisure interests:* gardening, colour photography. *Address:* Box 1288, Beverly Hills, Calif. 90213, U.S.A. *Telephone:* 213-271-2369.

GUILLABERT, André; Senegalese lawyer, politician and diplomatist; b. 15 June 1918; ed. Lycée Faidherbe, St. Louis-du-Sénégal, Faculté des Lettres, Bordeaux, and Faculté de Droit, Toulouse; Lawyer, Dakar Court of Appeal 1945-; Vice-Pres. Conseil Général du Sénégal 1947-52; First Vice-Pres. Territorial Assembly, Senegal 1952; Counsellor, Assembly of French Union 1957-58: Senator (France) 1958-59, Senator (French Community) 1959-61; Vice-Pres. Constituent Assembly, Senegal 1958-59, First Vice-Pres. Leg. Assembly 1959, Nat. Assembly 1960-62; Amb. to France (also accred. to Denmark, Finland, Norway, Sweden and Spain) 1960-62, 1966-77; Minister of Foreign Affairs, Senegal 1962; Keeper of the Seals and Minister of Justice 1962-63; Deputy and Vice-Pres. Nat. Assembly, Senegal 1963-66; mem. Political Bureau and Asst. Sec.-Gen. Parti Socialiste Sénégalais Feb. 1978-; Grand Officier, Légion d'honneur and many other decorations. *Address:* 47 avenue de la République, Dakar, Senegal.

GUILLAUMAT, Pierre L. J.; French company executive and fmr. civil servant; b. 5 Aug. 1909; ed. Prytanée Militaire, La Flèche and Ecole Polytechnique; Chef du Service des Mines, Indochina 1934-39, Tunisia 1939-43; Dir. of Carburants 1944-51; Admin.-Gen. Atomic Energy Comm. 1951-58; Pres. Petroleum Research Bureau 1945-58; Minister of the Armies, de Gaulle Cabinet, 1958-59, Debré Cabinet 1959-60; Minister attached to Prime Minister's Office 1960-62; Minister of Education (*a.i.*) 1960-61; Pres. Union Générale des Pétroles 1962-65, Electricité de France 1964-66, Entreprise de Recherches et d'Activités Pétrolières 1966-77, Soc. Nat. des Pétroles d'Aquitaine 1966-76, Soc. Nat. ELF-Aquitaine 1976-77; Pres. Conseil d'Administration de l'Ecole Polytechnique 1971-74; Grand Croix Légion d'honneur, Croix de guerre. *Address:* 7 rue Nélaton, 75015 Paris, France.

GUILLEMIN, Henri; French writer and fmr. university professor; b. 19 March 1903; ed. Ecole Normale Supérieure, Paris; teaching posts, various lycées, France 1928-36; Prof. of French Literature, Univ. of Cairo, Egypt 1936-38; Prof. of French Language and Literature, Univ. of Bordeaux 1938-42; Cultural Counsellor, French Embassy, Berne 1945-62; Prof., Univ. of Geneva 1963-73; Chevalier Légion d'honneur; Grand Prix de la Critique, Paris 1965. *Publications:* over thirty volumes of literary history and history. *Address:* 58 faubourg de l'Hôpital, Neuchâtel, Switzerland. *Telephone:* 038-25-40-51.

GUILLEMIN, Roger Charles Louis, PH.D.; American professor of medicine; b. 11 Jan. 1924, Dijon, France; m. Lucienne Jeanne Billard; six c.; ed. Univs. of Dijon, Lyons, Montreal; Prosector of Anatomy, Univ. of Dijon Medical School 1946-47; Research Asst., Inst. of Experimental Medicine and Surgery, Univ. of Montreal 1949-51, Assoc. Dir. and Asst. Prof. of Experimental Medicine 1951-53; Asst. Prof. of Physiology, Coll. of Medicine, Baylor Univ., Houston, Tex. 1953, Assoc. Prof. 1957, Prof. of Physiology and Dir. Laboratories for Neuroendocrinology 1963-70, Prof. of Physiology (Adjunct) 1970-; Consultant in Physiology, Veterans' Admin. Hosp., Houston 1954-60, 1967-70; Lecturer in Experimental Endocrinology, Dept. of Biology, W. M. Rice Univ., Houston 1958-60; Assoc. Dir., Dept. of Experimental Endocrinology, Collège de France, Paris, as joint appointment with Coll. of Medicine, Baylor Univ. 1960-63; Consultant in Biochem., M. D. Anderson Hosp. and Tumor Inst., Houston 1967-; Visiting mem. Graduate Faculty of Tex. A. and M. Univ., College Station Tex.; Resident Fellow and Research Prof., The Salk Inst. for Biological Studies, San Diego, Calif. 1970-, Dean 1972-73, 1976-77; Prof. of Medicine (Adjunct), Univ. of Calif., San Diego 1971-; mem. Nat. Acad. of Sciences 1974-, American Acad. of Arts and Sciences, American Physiological Soc. Bonneau and La Caze Awards in Physiology (Académie des Sciences) 1957, 1960, Gairdner Award (Toronto) 1974, Légion d'honneur 1974, co-recipient of Nobel Prize for Physiology of Medicine with Andrew V. Schally (*q.v.*) for discoveries relating to peptide hormones 1977, U.S. Medal in Science 1977; numerous int. awards and lectureships. *Address:* The Salk Institute for Biological Studies, P.O. Box 1809, San Deigo, Calif. 92112, U.S.A. *Telephone:* 714-4534100 (Home); 714-4596052 (Office).

GUILLÉN, Nicolás; Cuban poet; b. 10 July 1902, Camagüey; s. of Nicolás Guillén and Argelia Batista; ed. Camagüey Inst.; legal studies 1921; poet and author 1922-; Spanish war corresp. for Mediodía magazine 1937-38; Mayoral Candidate for Camagüey 1940 (Popular Socialist, later Cuban CP); Cand. for Senate, La Habana Province 1948; Pres. Cuban Union of Writers and Artists (UNEAC); Amb. of Cuba; Dr. h.c. (Bordeaux) 1977; Lenin Peace Prize 1954, Order of Merit of Haiti, Order of Cyril and Methodius (1st Class), Bulgaria. *Poetry:* Motivos de son 1930, Sóngoro cosongo 1931, West Indies Ltd. 1934, España 1937, Cantos para soldados y sones para turistas 1937, El son entero 1947, La paloma de vuelo popular 1958, Elegías 1958, Tengo 1964, Poemas de Amor 1964, El Gran Zoo 1967, La rueda dentada 1972, El diario que a diario 1972, Por el Mar de las Antillas anda un Barco de Papel 1977; essays on violinist Brindis de Salas 1935; chronicles: Prosa de Prisa 1962. *Address:* Unión de Escritores y Artistas de Cuba, Calle 17, No. 351, Vedado, Havana; Calle O, 22°, No. 2, Edificio Someillán, Vedado, Havana, Cuba. *Telephone:* 32-4551 (Office); 32-1079 (Home).

GUINNESS, Sir Alec, Kt., C.B.E.; British actor; b. 2 April 1914, London; m. Merula Salaman 1938; one s.; ed. Pembroke Lodge, Southbourne and Roborough, Eastbourne; entered Advertising Agency as Copywriter 1933; Scholarship to Fay Compton Studio of Dramatic Art 1934; First Stage appearance April 1934; played in seasons for John Gielgud and Old Vic Theatre Co.; Hamlet in modern dress 1938; served R.N.V.R. 1940-44; began film career 1945; Hon. Dr. Fine Arts (Boston Coll), Hon. D.Litt. (Oxford) 1977; *Films include:* Great Expectations 1946, Oliver Twist 1947, Kind Hearts, and Coronets 1948, The Lavender Hill Mob 1951, The Man in the White Suit 1951, The Bridge on the River Kwai 1957, (Oscar 1958), The Horse's Mouth 1958, Our Man in Havana 1959, Tunes of Glory 1960, Lawrence of Arabia 1962, Dr. Zhivago 1966, The Comedians 1967, Cromwell 1969, Murder by Death 1975, Star Wars 1976; plays include: The Prisoner 1954, Hotel Paradiso 1956, Ross 1957, Exit the King, Dylan 1963, Macbeth 1965, Wise Child 1967, 1968, A Voyage Round My Father 1971, Habeas Corpus 1973, A Family and a Fortune 1975, Yahoo 1976, The Old Country 1977, TV includes: Tinker, Tailor, Soldier, Spy 1979. *Address:* c/o London Management, 235/241 Regent Street, London, W.1, England.

GUINNESS, James Edward Alexander Rundell; British banker; b. 23 Sept. 1924, London; s. of Sir Arthur Guinness, K.C.M.G., and Lady Frances Patience Guinness (née Wright), M.B.E; m. Pauline Vivien Mander 1953; ones. four d.; ed. Eton and Oxford Univ.; joined family banking firm of Guinness Mahon & Co. 1946, Partner 1953-, Dir. 1953-; Chair. Guinness Mahon Holdings Ltd. 1968-72; Joint Chair. Guinness Peat Group Ltd. 1973-77, Deputy Chair. 1977-; Commr., Public Works Loan Bd 1960, Deputy Chair. April 1977-. *Leisure interests:* hunting, shooting, fishing. *Address:* 36 Phillimore Gardens, London, England, W8 7QF. *Telephone:* 01-937 8877.

GUIRINGAUD, Louis de; French diplomatist; b. 12 Oct. 1911; s. of Pierre and Madeleine (née de Catheu) de Guiringaud; m. Claude Mony 1955; one s.; ed. Lycée Buffon, Lycée Saint Louis, Univ. de Paris à la Sorbonne, and Ecole des Sciences Politiques; Staff of Minister for Foreign Affairs 1936; entered Diplomatic Service 1938-; Attaché Ankara 1938-39; with French forces 1939-40; assigned to French High Comm., Beirut 1940-41; with Resistance in France 1942; Special Asst. to French Commr. for Foreign Affairs, de Gaulle's Provisional Govt., Algiers 1943-44; with French forces Italy and France 1944-45; First Sec., London 1946-49; Political Dir. French High Comm. in Germany 1949-52; Consul-Gen. San Francisco 1952-55; Deputy Rep. to UN Security Council 1955-57; Amb. to Ghana 1957; Dir. Dept. of Moroccan and Tunisian Affairs, Ministry for Foreign Affairs 1960; Deputy High Commr. in Algeria 1962; Gen.-Inspector Diplomatic Posts 1963-66; Amb. to Japan 1966-72; Perm. Rep. to UN 1972-76; Minister of Foreign Affairs 1976-78; Commdr., Légion d'honneur, Croix de guerre, Grand Cross of Rising Sun (Japan), etc. *Address:* 2 rue Cognac-Jouy, 75007 Paris; rue de la Justice, Castelsarrasin, France.

GUISE, Sir John, G.C.M.G., K.B.E.; Papua New Guinea politician; b. 29 Aug. 1914, Milne Bay; ed. Anglican School, Dogura, Milne Bay Province; Sergeant-Major, Royal Papua New Guinea Constabulary 1946-47; mem. Legis. Council 1961-63, House of Ass. 1964-75; Speaker 1968-71; Deputy Chief Minister 1972-75, Minister of the Interior, later of Agric. 1972-75; Gov.-Gen. of Papua New Guinea 1975-77; mem. Nat. Parl. July 1977-; unsuccessful cand. for Prime Minister Aug. 1977; Hon. LL.D.; independent, later United Party. *Address:* National Parliament, Port Moresby, Papua New Guinea.

GUITTON, Jean Marie Pierre; French university professor; b. 18 Aug. 1901; ed. Ecole Normale Supérieure; fmr. teacher in schools at Troyes, Moulins, Lyon, and Univs. of Montpellier and Dijon; Prof. of Phil. and History of Phil., Univ. of Paris 1955-68; mem. Programmes Cttee. Radiodiffusion et Télévision Française (ORTF) 1965-; mem. Académie Française 1961-; Observer at 2nd Vatican Council 1963. *Publications:* Le temps et l'éternité chez Plotin et Saint Augustin, La philosophie de Newman, L'existence temporelle, Essai sur l'amour humain, Le problème de Jésus, Le nouvel art de penser, Le travail intellectuel, Portrait de Monsieur Pouget, Jésus, Apprendre à vivre et à penser, Le Cardinal Saliège, La vocation de Bergson, L'église et l'évangile, Problème et mystère de Jeanne d'Arc, Journal oecuménique, Le clair et l'obscur vers l'unité, Dialogue avec Paul VI, Profiles paralleles, Histoire et destinée, Oeuvres completes (3 vols.), Ce que je crois, la famille et l'amour, etc. *Leisure interest:* painting. *Address:* 1 rue de Fleurus, 75006 Paris; La Pensée, Champagnat, 23190 Bellegarde-en-Marche, France.

GUJRAL, Inder Kumar, M.A.; Indian politician; b. 4 Dec. 1919, Jhelum (now in Pakistan); s. of Shri Avatar Narain Gujral and Shrimati Pushpa Gujral; m. Shrimati Sheila Gujral 1944; two s.; ed. Forman Christian Coll. and Hailey Coll. of Commerce in Lahore, Punjab Univ.; jailed for participation in freedom movement 1930-31 (and again during Quit India movement 1942); Pres. Lahore Students' Union; Gen.-Dec. Punjab Students' Fed.; migrated to India 1947; helped nat. effort for rehabilitation of displaced persons; M.P. 1964-76; Minister of State for Communications and Parl. Affairs 1967-69, for Information, Communications and Broadcasting 1969-71, Minister of State for Works, Housing and Urban Devt. 1971-72, for Information and Broadcasting 1972-75, for Planning 1975-76; Amb. to U.S.S.R. (with ministerial rank) May 1976-; mem. Rajya Sabha 1970-76; Vice-Pres. New Delhi Municipal Cttee. 1959-64; helped organize Citizens Cttee, for Civil Defence; mem. All India Cen. Citizens Council, Sec. Resources Sub-Cttee.; mem. All India Congress Cttee.; Rep. India at Inter-Parl. Union Conf. in Canberra 1966; Alt. Leader Indian Dels. to UNESCO 1970, 1972, 1974 and to other UN special sessions; Founder-Pres. Delhi Arts Theatre; Treas. Fed. of Film Socs. of India; Vice-Pres. Lok Kalyan Samiti; Co-Chair. Asian Regional Conf. of Rotary Int. 1958. *Leisure interests:* theatre, poetry, painting, ecological problems. *Address:* Embassy of India, Ul. Obhuka 6-8, Moscow, U.S.S.R.

GULDBERG, Ove; Danish civil engineer, lawyer and politician; b. 2 Dec. 1918, Nysted; s. of Frede and Else Guldberg (née Richter); m. Else Guldberg (née Christiansen) 1942; three s.; employed by Vejle City Admin. 1942; with Civil Eng. Contractor, K. Hindhede 1943; Copenhagen City Engineer's Office 1944; at Research Lab., Ministry of Fisheries 1946-47; mem. Cen. Cttee., Inst. of Danish Engineers 1946-48, Sec. 1948, Dir. 1952-65; Sec. Assen. of Consultant Engineers 1956, Dir. 1965; Man. of the building of the Inst. of Danish Engineers 1957; Liberal mem. Folketing (Parl.) 1964-77; Minister for Transport and Communications 1968-71; mem. European Parl. 1973-77, Vice-Pres. 1975; Minister for Foreign Affairs 1973-75; Sec. Conf. of Reps. from Eng. Socs. of W. Europe and U.S.A. (EUSEC) 1955-58; Pres. Civil Defence Union 1962-65; mem. Civil Defence Council 1962-68; Commdr., Order of Dannebrog (First Class), Knight Grand Cross St. Michael and St. George, Grand Cross (Fed. Repub. of Germany), Grand Cross St. Olav (Norway), Grand Cross of the Yugosalv Flag, Encomienda de Numero, Orden del Mérito Civil (Spain). *Address:* Skovvangen 18, 2920 Charlottenlund, Denmark. *Telephone:* 01-632527.

GÜLEK, Kasim, PH.D.; Turkish politician, economist and farmer; b. 20 Dec. 1910, Adana; s. of Mustafa Rifat and Tayyibe; m. Nilufer Devrimel 1967; one s. one d.; ed. Robert Coll., Ecole des Sciences Politiques, Paris, and Columbia, Cambridge, London, Berlin and Hamburg Univs.; M.P. 1940-; Chair. Cttee. on Commerce 1943; Minister of Public Works 1947; Minister of Communications 1948; Minister of State 1949; Del. to Council of Europe 1949, 1950, 1951, 1958, 1960, 1961, 1962; Chair. UN Comm. on Korea; fmr. Sec.-Gen. People's Republican Party 1951-59; mem. Constituent Assembly 1960; Vice-Pres. Council of Europe 1961-62; expelled from Republican People's Party for one year Dec. 1962; Pres. North Atlantic Assembly 1968; Gov. Atlantic Inst. 1969; Senator 1969. *Publications:* Development of Economically Backward Countries 1932, Development of Banking in Turkey 1933, Democracy Takes Root in Turkey 1951. *Leisure interests:* archaeology, photography. *Address:* B. Evler, 50 Sosak no. 3, Ankara, Turkey. *Telephone:* 13-25-63 (Ankara); 45-30-46 (Istanbul).

GULLION, Edmund Asbury, A.B., LL.D.; American diplomatist and university official; b. 2 March 1913, Lexington Ky.; s. of the late Maj.-Gen. W. Gullion and Ruth Matthews Gullion; m. Patricia Palmer 1961; ed. Princeton Univ.; Vice-Consul, Marseilles 1937; Dept. of State 1938; Vice-Consul, Salonika 1939; Third Sec. London 1942-43; Algiers 1942; Chargé d'affaires, Helsinki 1943; Second Sec. Stockholm 1944; Dept. of State, Washington 1945; Counsellor, Saigon 1950; Dept. of State, Washington 1952-56; Foreign Service Insp. 1957; Dept. of State 1960; Acting Dep. Dir. U.S. Disarmament Admin. 1960, Dep. Dir. 1961; Amb. to the Congo (Léopoldville) 1961-64; Career Minister, Dean, Fletcher School of Law and Diplomacy 1962, Tufts Univ. 1965-; mem. American Foreign Service Assen., American Acad. of Arts and Sciences, Council on Foreign Relations; Dir. World Peace Foundation, World Affairs Council (Boston), Inst. of Strategic Studies (London). *Address:* Tufts University, Fletcher School of Law and Diplomacy, Medford, Mass. 02155, U.S.A.

GULLOTTI, Antonino Pietro; Italian politician; b. 14 Jan. 1929, Ucria, Messina; Provincial Sec., Partito Democrazia Cristiana (Christian Democrats), Messina 1951, then Regional Sec., Sicily; Nat. Councillor, PDC 1954-, mem. Cen. Ctte. 1960, Vice-Sec. PDC; mem. Chamber of Deputies 1958-; Vice-Pres. Comm. of Enquiry investigating the Mafia; Minister of Public Works 1972-73, for State participation 1973-74, of Health 1974-76, of Public Works 1976-78, of Post and Telecommunications 1978-79 Christian Democrat. *Address:* c/o Ministerio delle Poste e Telecommunicazioni, Via del Seminario 76, Roma 00100, Italy.

GUMEDE, Josiah, M.B.E.; Rhodesian Head of State; fmr. schoolmaster; worked for Cen. African Fed. in Kenya and U.K.; served in Housing Ministry, London 1965-67, returned to Rhodesia 1967; served in local Govt., Njube Township, Bulawayo 1967-79; Pres. of Zimbabwe-Rhodesia May 1979-. *Address:* Government House, Salisbury, Zimbabwe-Rhodesia.

GUNA-KASEM, Pracha, PH.D.; Thai diplomatist; b. 29 Dec. 1934, Bangkok; s. of Jote and Rabieb Guna-Kesem; m. Sumanee Chongcharoen 1962; one s.; ed. Dhebsirinda School, Bangkok, Marlborough Coll., Hertford Coll., Oxford and Yale Univ.; joined Ministry of Foreign Affairs 1959; Chief of Section, Political Div. of Dept. of Int. Org. 1960-61, Second Sec. SEATO Div. 1962-63; Alt. Mem. for Thailand, SEATO Perm. Working Group 1962-63; Embassy in Egypt 1964-65; Chief of Foreign News Analysis Div. of Information Dept. and concurrently in charge of Press Affairs 1966-69, Chief of Press Div. 1970-71, Dir.-Gen. of Information Dept. 1973-75; Consul-Gen. in Hong Kong 1971-73; Perm. Rep. to UN Sept. 1975-; fmrly. Special Lecturer, Thammasat Univ.; mem. del. to UN Gen. Ass. 1962, 1968, 1970, 1974, to 2nd Afro-Asian Conf., Algeria 1965, to SEATO Council 1966. *Leisure interests:* golf, bridge, tennis. *Address:* Permanent Mission of Thailand to the United Nations, 20 East 82nd Street, New York, N.Y. 10028, U.S.A. *Telephone:* (212) 628-7900.

GUNARATNE, Victor Thomas Herat, L.M.S., D.T.M. & H., D.P.H., M.R.C.P.(E.), F.R.C.P.(E.); Ceylonese international health official; b. 11 March 1912, Mellowagara; s. of the late H. M. G. Herat Gunaratne; m. Clarice Gunaratne 1937; one s. two d.; ed. Ceylon Medical College, London School of Hygiene and Tropical Medicine, and Univ. of Edinburgh Medical School; Deputy Dir. Public Health Services, Ceylon 1959-61; Deputy Dir. Ceylon Medical Services 1961-64; Dir. Health Services, Govt. of Ceylon 1964-67; Pres. World Health Assembly 1967; Dir. WHO Regional Office for S.E. Asia 1968-; Hon. Fellow Indian Acad. of Medical Sciences 1975; Hon. Fellow, Ceylon Coll. of Physicians 1976; Hon. Dr. of Public Health (Mahidol) 1977. *Publications:* A History of Medicine and Public Health in Sri Lanka, Challenge Faced by the Medical Profession in Tropical Developing Countries, Challenges and Responses, Selected Addresses and articles in professional journals. *Address:* WHO Regional Office for South-East Asia, World Health House, Ring Road, Indraprastha Estate, New Delhi 1, India. *Telephone:* 270181.

GUNDELACH, Finn Olav; Danish diplomatist; b. 23 April 1925, Vejle; s. of Albert and Jenny Hobolt; m. Vibeke Rosenvinge 1953; two s.; ed. Aarhus Univ.; Sec., Danish Ministry of Foreign Affairs 1953; Perm. Rep. to UN, Geneva 1955; Dir. Dept. of Commercial Policy, GATT 1959; Asst. Gen. Sec. GATT 1959, Asst. Gen. Dir. 1965; Amb. to EEC 1967-72; Commr. for Internal Market and Customs Admin., Comm. of European Communities 1973-76, Vice-

Pres. and Commr. for Agric. and Fisheries 1977-; Knight, Order of Dannebrog, Grand Cross (Brazil). *Publications:* articles in foreign trade journals. *Address:* Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium.

GUNDERSEN, O. C., CAND. JUR; Norwegian lawyer and politician; b. 17 March 1908, Oslo; m. Ragna Lorentzen 1937; one d.; ed. Oslo Univ.; qualified as solicitor 1931, High Court barrister 1939; Town Councillor, Trondheim 1938, dismissed by Nazis 1941; escaped to Sweden, attached to Norwegian Legation, Stockholm; summoned to London 1942 and apptd. Dir. of State Insurance Office and Chair. Insurance Council; Town Councillor and Alderman Trondheim; Minister of Justice 1945-53; Chair. Norwegian Del. to UN 1949, 1951, 1952; Chair. UN Observer Group (Hungarian Question) 1956; Justice of the Supreme Court; Chair. UN Special Advisory Bd. 1957-; Amb. to U.S.S.R. 1958-61; Minister of Commerce and Shipping 1962-63, of Justice 1963-65; Chair. EFTA Ministerial Council 1953; Judge of Supreme Court 1967-77. *Address:* Olav Kyrresgate 11B, Oslo 2, Norway (Home). *Telephone:* 56-51-19.

GUNN, Thom(son William), M.A.; British poet; b. 29 Aug. 1929, Gravesend; s. of Herbert Smith Gunn and Ann-Charlotte Gunn; ed. Trinity Coll., Cambridge; taught English at Univ. of Calif., Berkeley 1958-66; Levinson Prize 1955, Somerset Maugham Prize 1959; grants from Nat. Inst. of Arts and Letters 1964, Rockefeller Foundation 1966, Guggenheim Foundation 1972. *Publications:* Fighting Terms 1954, The Sense of Movement 1957, My Sad Captains 1961, Positives (with Ander Gunn) 1966, Touch 1967, Moly 1971, Jack Straw's Castle 1976. *Address:* 1216 Cole Street, San Francisco, Calif. 94117, U.S.A.

GUNN, Sir William Archer, K.B.E., C.M.G.; Australian grazier and company director; b. 1 Feb. 1914, Goondiwindi, Queensland; s. of the late Walter Gunn and Doris Isabel Gunn; m. Mary Phillipa Haydon 1939; one s. two d.; ed. The King's School, Parramatta, New South Wales; Chair. Australian Wool Bd. 1963-72, Int. Wool Secr. Bd. 1961-73, Queensland Advisory Bd., Devt. Finance Corpn. 1962-72; Chair. Gunn Devt. Pty. Ltd., Eagle Corpn. Ltd., Cattle Investments Ltd., Livestock Man. Pty. Ltd., Moline Pastoral Co. Pty. Ltd., Roper Valley Pty. Ltd., Coolibah Pastoral Co. Pty. Ltd., Mataranka Pty. Ltd., Unibeef Australia Pty. Ltd.; Dir. Rothmans of Pall Mall (Australia) Ltd., Grazcos Co-operative Ltd., Clausen Steamship Co. (Australia) Pty. Ltd., Walter Reid & Co. Ltd., Gunn Rural Man. Pty. Ltd.; mem. Commonwealth Bank Bd. 1952-59, Faculty of Veterinary Science, Univ. of Queensland 1953-, Reserve Bank Bd. 1959-, Australian Meat Bd. 1953-66, Australian Wool Bureau 1951-63 (Chair. 1958-63), Australian Woolgrowers Council 1947-60 (Chair. 1955-58), Graziers Fed. Council of Australia 1950-60 (Pres. 1951-54), Australian Woolgrowers and Graziers Council 1960-65, Export Devt. Council 1962-65, Exec. Council, United Graziers Assn. of Queensland 1944-69 (Vice-Pres. 1947-51, Pres. 1951-59), Australian Wool Testing Authority 1958-63, C.S.I.R.O. State Cttee. 51-68, Australian Wool Corpn. 1973; Chair. The Wool Bureau Inc. New York 1962-69, etc.; Trustee Queensland Cancer Fund; Golden Fleece Achievement Award (Nat. Assn. of Wool Manufacturers of America) 1962; Award of the Golden Ram (Nat. Wool Growers' Assn. of S. Africa) 1973. *Address:* Wool Exchange, 69 Eagle Street, Brisbane, Queensland 4000 (Office); 98 Windermere Road, Ascot, Brisbane, Queensland 4007, Australia (Home). *Telephone:* Brisbane 211-4044 (Office); Brisbane 268-2688 (Home).

GUNN, William P.; British food industry executive; b. 26 Feb. 1924, Edinburgh; s. of Donald and Margaret (née Pallister) Gunn; m. Eleanor Morrison 1955; one s. one d.; ed. Royal High School, Edinburgh, Edinburgh Univ., Harvard Business School; Apprentice Chartered Accountant 1946-48; Qualified Asst., Price Waterhouse, London 1948-54; Asst. Co. Sec., McVitie & Price Ltd. 1954-58, Dir. and Co. Sec. 1958-64; Treas. United Biscuits Ltd. 1965, Finance Dir. United Biscuits (Holdings) Ltd. 1965-76, Chair. United Biscuits (U.K.) Ltd. 1976-. *Leisure interests:* golf, gardening. *Address:* United Biscuits, Syon Lane, Isleworth, Middx. (Office); Wynchfield, 12 Kew Ferry Drive, Northwood, Middx., England (Home). *Telephone:* 01-560 3131 (Office); Northwood 21842 (Home).

GUNNENG, Arne, LL.B.; Norwegian diplomatist; b. 1 Dec. 1914, Oslo; m. Ingrid Fleischer 1939; three d.; ed. Oslo Katedralskole, Oslo Univ.; First Sec. Embassy, Washington 1945-48; Ministry of Foreign Affairs, Oslo 1948-50; Chargé d'affaires, Warsaw 1950-51; Counsellor, Stockholm 1951-52; Deputy Perm. Rep. North Atlantic Council, Paris 1952-55; Amb. to Canada 1955-59; Dir.-Gen. of Political Affairs, Ministry of Foreign Affairs, Oslo 1959-62; Amb. to Sweden 1962-66, to U.S.A. 1966-73, to Italy (also accred. to Greece) 1973-78, to the Netherlands 1978-. *Address:* Norwegian Embassy, Prinsessegracht, The Hague, Netherlands.

GUNNESS, Robert Charles, D.SC.; American oil executive; b. 28 July 1911, Fargo, North Dakota; m. Beverly Osterberger; two s. one d.; ed. Univ. of Massachusetts and Massachusetts Inst. of Tech.; Asst. Dir. of Research, Standard Oil Co. (Indiana) 1943-45, Assoc. Dir. 1945-47, Man. of Research 1947-52, Asst. Gen. Man. of Mfg. 1952-54, Dir. 1953-75, Gen. Man. Supply and Transportation 1954-56, Exec. Vice-Pres. 1956-65, Pres. 1965-74, Vice-Chair. 1974-75; Vice-Chair. Research and Devt. Bd. Dept. of Defense, Washington, D.C. 1951; Dir. Inland Steel Co., Champion Int. Corpn., Chicago Milwaukee Corpn., Consolidated Foods Corpn., Paxall Inc., Oakbrook Consolidated Inc., Foote Cone and Belding Communications Inc., Exchange Nat. Bank of Chicago, New York Stock Exchange, Halcon Int. Inc.; Trustee, Univ. of Chicago. St. Luke's Hosp., The John Crerer Library; life mem. of Corpn., M.I.T.; mem. Nat. Acad. of Eng., American Chem. Soc., American Acad. of Arts and Sciences. *Leisure interests:* golf, skiing. *Address:* One First National Plaza, Suite 2656, Chicago, Ill. 60603 (Office); 1110 Lake Shore Drive, Chicago, Ill. 60611, U.S.A. (Home).

GUNSALUS, Irwin Clyde, PH.D.; American biochemist and author; b. 29 June 1912, Sully Co., S. Dak.; s. of I. C. and Anna (Shea) Gunsalus; m. 1st Merle La Mont 1935, four s. one d.; m. 2nd Carolyn F. Foust 1951 (died 1970) two d.; m. 3rd Dorothy Clark 1970; ed. Cornell Univ.; Asst. Bacteriologist, Cornell Univ. 1935-37, Instructor 1937-40, Asst. Prof. 1940-44, Assoc. Prof. 1944-46, Prof. 1946-47; Prof. Univ. of Indiana 1947-50; Prof. Univ. of Illinois 1950-55, Prof. of Biochemistry 1955-, Head of Dept. 1955-66; Editor, The Bacteria, Vols. I-V (with R. Stainer), Vol. VI, Biochemical and Biophysical Research Communications, Bacteriological Reviews; mem. Advisory Bds. Analytical Biochemistry, Biochemistry; Guggenheim Memorial Foundation Fellow 1949, 1959, 1968; mem. Nat. Acad. of Sciences, American Chem. Soc., American Soc. of Biological Chemists; Mead Johnson Award 1946. *Publications:* over 300 scientific papers. *Leisure interests:* gardening, music, art, viniculture. *Address:* Biochemistry Department, 420 Roger Adams Laboratory, University of Illinois, Urbana, Ill. 61801 (Office); 1709 Pleasant Circle, Urbana, Ill. 61801, U.S.A. (Home). *Telephone:* 217-333-2010 (Office); 217-344-5541 (Home).

GÜNTHER, Eberhard, D.IUR.; German economist and international official; b. 25 Dec. 1911, Freienwalde; s. of Alfred Günther and Elfriede (née Volprecht); m. Edelgard Wujetz 1942; one s. one d. (deceased); ed. Univs. of Munich, Kiel, Freiburg im Breisgau, Berlin; mem. of Bd., Nitrogene Syndicate 1938-46; Chair. Bd. of Coal Processing Plant 1946-48; Section Chief in Bizonal Econ. Admin. 1948-50, in Econ. Ministry of Fed. Repub. of Germany 1950-58; Pres. of Fed. Cartel Authority 1958-76; Hon. Prof. of Law, Berlin Tech. Univ. 1969-; Hon. Prof. of Law (Freiburg) 1978; Great Cross, Spanish Civil Order of Merit; Alexander Rüstow Plakette; Grosses Verdienstkreuz mit Stern des Verdienstordens der Bundesrepublik Deutschland. *Publications:* Wirtschaftsordnung und Rechtsordnung 1965, Wege zur Europäischen Wettbewerbsordnung 1968, Ludwig Erhard 1971, Wettbewerb im Wandel 1976, and over 200 articles on cartel law. *Leisure interest:* sailing. *Address:* 6233 Kelkheim, Taunushöhe, Federal Republic of Germany. *Telephone:* (06195) 2613.

GUPTA, Banarsi Das; Indian politician; b. 5 Nov. 1917, Manheru, Bhiwani District; s. of Ram Swarup Das; m. Daraupdi Gupta 1941; two s. two d.; ed. Intermediate, Hindi Prabhakar; Gen. Sec. and Pres., Jind State Praja Mandal 1939-48; Pres. Hissar District Congress Cttee. 1953-58; Pres. Bhiwani Municipal Cttee. 1953-54, 1957; Chair. Bhiwani Improvement Trust 1965-67; mem. Vidhan Sabha (legislature) of Haryana 1968-; Gen. Sec. Haryana Pradesh Congress Cttee. 1968-72; Pres. Adarsh Educ. Soc., Bhiwani 1969-76; mem. Court (Samsad), Kurukshetra Univ. 1970-75, of Exec. Council 1970-; Speaker, Haryana Vidhan Sabha 1972-73; Minister for Co-operation, Housing, Local Self-Govt., PWD (Public Health) and Irrigation and Power 1973-75; Chief Minister of Haryana 1975-77; fmr. Editor and Publisher, Apna Desh and Haryana Kesri weeklies. *Publications:* Panchayati Raj—Kyon aur Kaise?, articles in newspapers and magazines. *Leisure interests:* literary activities, poetic symposia, music and cinema, walking and gardening. *Address:* Kothi no. 1, Sector 3, Chandigarh, India. *Telephone:* 29133 (Home).

GUPTA, Chandra Bhanu, M.A., LL.B.; Indian politician; b. 14 July 1902; s. of late Sri Hiralal; ed. Lucknow Univ.; joined Indian Nat. Congress 1921; law practice 1925; mem. All India Congress Cttee. 1926; mem. All India Congress Cttee. 1926-77; mem. Court, Lucknow Univ. 1927, Council 1929, Treas. 1946-58; Pres. Lucknow City Congress Cttee. 1928-46; mem. Uttar Pradesh Congress Cttee. 1933-69, Treas. 1946-77, Vice-Pres. 1958, Pres. 1960, 1964; mem. All India Congress Working Cttee., Cen. Parl. Bd. and Cen. Election Cttee. 1966-77; mem. Legis. Ass. U.P. 1937, 1946, 1952, 1961, 1967,

1969-1974; Parl. Sec. to Chief Minister 1946; Minister of Food and Civil Supplies, Health, Planning and Industry 1947-57; Chief Minister of U.P. 1960-62, 1962-63, 1967, 1969-70; Leader of Opposition 1967-68; Leader Congress Legislature Party (Opposition) 1970-74; Hon. Treas. All India Janata Party 1977-; Pres. Motilal Memorial Soc. 1961-, Bharat Seva Sansthan, Shiksha Samiti, Ganga Prasad Verma Memorial Soc. 1964-, U.P. T.B. Assoc. 1951-, Ramakrishna Mission 1944-74. *Address:* Seva Kutir, Pan Dariba, Lucknow, Uttar Pradesh, India.

GUR, Lieut.-Gen. Mordechai; Israeli army officer; b. 5 May 1930, Jerusalem; m.; two s. two d.; ed. Hebrew Univ., Jerusalem; served in Haganah; Co. Commdr. during Independence War 1948-49; Paratroop Battalion Commdr., Sinai Campaign 1956; Deputy Commdr. Paratroop Forces 1957; Instructor, Command and Staff Coll. 1958; studies at Ecole de Guerre, Paris 1958-60; C.O. Golani Brigade 1961-63; Chief of Command Operations 1964-65; in charge of Command and Staff Coll. 1965-66; Staff and Command 1966-67; C.O. Paratroop Brigade during Six-Day War 1967; mem. Israeli Del. to UN Emergency Session 1967; C.O. Israeli Forces in Gaza and N. Sinai, Northern Command 1967-72; Mil Attaché, Washington 1972-73; C.O. Northern Command during Yom Kippur War Oct. 1973; Chief Mil. Negotiator at Geneva Peace Conf. Dec. 1973; Chief of Staff 1974-78; Medal of Valour 1955. *Publications:* The Templemount is in our Hands; several children's books. *Address:* c/o Ministry of Defence, Jerusalem, Israel.

GÜRLER, Gen. Faruk; Turkish army officer; b. 1913, Üsküdar, Istanbul; ed. War School, War Acad. for Land Forces; Commdr., Artillery and Infantry Units; Staff Officer, High Defence Council; Instructor War School and War Acad., later Acting Commdr.; Intelligence Officer, NATO; Deputy Chief of Staff of Army Corps., Deputy Artillery Commdr. of Div. and Army Corps., later Army Corps. Commdr.; Chief of Staff of Land Forces Command; Acting Under-Sec. of State, then Under-Sec. of State, Ministry of Nat. Defence; promoted to rank of Gen. 1968; Deputy Chief of Gen. Staff, Commdr. of Land Forces 1968-72; Chief of Gen. Staff 1972-73; Senator; unsuccessful Presidential cand. 1973. *Address:* Cumhuriyet Senatosu, Türkiye Büyük Millet Meclisi, Ankara, Turkey.

GÜRÜN, Kâmuran; Turkish diplomatist; b. 1924, Çengelköy (Istanbul); m. 1967; ed. studied political science; entered diplomatic service 1948; posted to Turkish Embassy, Bonn 1951; subsequently held various posts at Ministry of Foreign Affairs and diplomatic missions abroad; Dir.-Gen. Dept. for Admin. Affairs 1961, subsequently Perm. Sec. to the Inter-Ministerial Cttee. on External Econ. Relations, Dir.-Gen. Dept. for Econ. and Commercial Affairs, Deputy Sec.-Gen. for Econ. Affairs and Sec.-Gen. Inter-Ministerial Econ. Council; Amb. to Romania 1967-70; Perm. Rep. of Turkey at OECD 1970-72; Amb. to Greece 1974-76; Sec.-Gen. CENTO 1978-79. *Address:* c/o Ministry of Foreign Affairs, Ankara, Turkey.

GUSTAFSON, Torsten, PH.D.; Swedish physicist; b. 8 May 1904, Falkenberg; s. of Albin Gustafson and Hulda Bramstång; m. Karin Lindskog 1935; one s. three d.; ed. Lund, Göttingen and Copenhagen Univs.; Prof. of Theoretical Physics, Lund Univ. 1939-70; mem. Swedish Atomic Energy Research Council 1945-64, Swedish Atomic Energy Del. 1956-70; Del. European Org. for Nuclear Research, CERN 1953-64; Dir. Nordic Inst. for Theoretical Atomic Physics 1957-58, Chair. 1963-69; Govt. Advisory Del. on Research 1963-68; mem. of numerous Scandinavian Acads. of Science; Hon. Dr. Helsinki 1969. *Publications:* Papers on flow round airfoil-like bodies 1927-36, on inertia currents in the oceans 1936, on divergencies in quantum electrodynamics 1937-47, on atomic nuclei 1947-, on high-flight altitudes of birds. *Leisure interest:* bird-watching. *Address:* Gyllenkroks allé 13, 22224 Lund, Sweden.

GUSTAFSSON, Carl Åke Torsten, PH.D.; Swedish geneticist; b. 8 April 1908, Stockholm; s. of Emil and Anna Gustafsson; m. Madeleine Berggren 1932; two s. three d.; ed. Lunds Universitet, and in Stockholm and U.S.; Docent, Univ. of Lund 1935, Research Assoc., 1944; Prof. and Head, Inst. of Forest Genetics; Royal Coll. of Forestry, Stockholm 1947, Prefect 1967-68, Head, Inst. of Genetics, Lund Univ. 1968, Prefect 1968; Guest Lecturer at various institutes and universities throughout Europe, and in U.S.A., Thailand, India, Philippines, etc.; mem. Royal Physiographic Soc., Royal Acad. of Forestry and Agriculture, Royal Acad. of Sciences (all in Sweden), and Leopoldina Acad. of Natural Sciences (Germany), Acads. of Sciences and Letters (Denmark and Finland), Nat. Acad. of Sciences (U.S.A.), etc. *Publications:* 200 scientific articles; books of prose and poetry. *Address:* Institute of Genetics, Lund University, Sölvegatan 29, 223 62 Lund, Sweden.

GUT, Rainer Emil; Swiss banker; b. 24 Sept. 1932, Baar; s. of Emil Anton and Rosa (Müller) Gut; m. Josephine Lorenz 1957; two s. two d.; ed. Cantonal School of Zug.; undertook professional training periods, France and England; North American Rep. Union Bank of Switzerland, New York 1963; Gen. Partner Lazard Frères & Co., New York 1968; Chair. and Chief Exec. Officer, Swiss American Corpn. (Crédit Suisse's U.S. investment banking affiliate) 1971; Deputy Gen. Man., Head Office Crédit Suisse, Zürich 1973, Gen. Man. 1975, Spokesman of Gen. Management 1977-. *Address:* Schatzackerstrasse 63, 8303 Bassersdorf, Switzerland. *Telephone:* 01-836-70-86.

GUTH, Paul; French author, journalist and radio and television broadcaster; b. 5 March 1910, Ossun; s. of Joseph and Maria Guth; m. Juliette Loubère 1936; ed. Coll. de Villeneuve sur Lot, Lycée Louis le Grand; Teacher of French, Latin and Greek, Lycée de Dijon, Lycée de Rouen, then Lycée Janson de Sailly; journalist, contributor to several newspapers and journals including, Spectator, Figaro Littéraire, L'Album du Figaro, La Gazette des Lettres, La Revue de Paris, etc. contrib. to numerous radio programmes; regular appearance on TV programme, Premières Nouvelles; Grand Prix du Théâtre 1946, Grand Prix littéraire, Paris 1964, Grand Prix littéraire, Monaco 1973; Grand Prix de littérature, Académie Française 1978; Officier, Légion d'honneur, Commdr. des Arts et Lettres. *Publications:* Quarante contre un, Autour des dames du bois de Boulogne, Les sept trompettes, Le Pouvoir de Germaine Calban, Naïf series including, Les mémoires d'un naïf (Prix Courteline 1953), Le naïf locataire (Grand Prix du Roman, Académie Française 1956), Jeanne la mince series; Le naïf dans la littérature, Comment j'ai crée le personnage du naïf, Une bombe littéraire au temps des années folles: dadaïsme, Saint Louis roi de France, Henri IV, Histoire de la littérature française 2 vols. 1967, Lettre ouverte aux idoles 1968, L'Histoire de la douce France 1968-70, Mazarin 1972, Le chat beauté, Lettres à votre fils qui en a ras le bol, Notre drôle d'époque comme si vous y étiez; children's books: La locomotive Joséphine, Le fin mot de l'histoire, Moustique et le marchand de sable, Moustique et Barbe Bleue, Moustique dans la lune, Si ces grands hommes étaient morts à vingt ans. *Address:* 24 rue Desbordes Valmore, 75016 Paris, France.

GUTH, Wilfried, DR.RER.POL.; German banker; b. 8 July 1919; mem. of Man Bd., Deutsche Bank, AG; Chair. Supervisory Bd., Daimler-Benz AG, Deutsche Überseeische Bank AG, Philipp Holzmann AG, Knorr-Bremse KG, Saarländische Kreditbank AG; Deputy Chair. Supervisory Bd., Dierig Holding AG, Metallgesellschaft AG, Reemtsma Cigarettenfabrik GmbH, Schering AG; mem. Supervisory Bd., Allianz Versicherungs-AG, Henkel KGaA, Münchener Rückversicherungs-Gesellschaft AG, Siemens AG, Solvay & Cie. S.A., Belgium, August Thyssen-Hütte AG. *Address:* Deutsche Bank AG, 6000 Frankfurt am Main, Grosse Gallusstrasse 10-14, Federal Republic of Germany.

GUTHRIE, Sir Giles Connop McEacharn, Bt., O.B.E., D.S.C., J.P.; British merchant banker and businessman; b. 21 March 1916; s. of the late Sir Connop Guthrie and Lady Mary Islay McEacharn; m. Rhona Stileman 1939; two s.; ed. Eton and Magdalene Coll., Cambridge; winner (with C. W. A. Scott) Portsmouth-Johannesburg Air Race 1936; Traffic Officer, British Airways 1938-39; Fleet Air Arm, Second World War 1939-46; fmr. Man. Dir. Brown Shipley and Co. Ltd.; fmr. Deputy Chair. North Central Finance Ltd.; fmr. Dir. Prudential Assurance Co. Ltd., Radio Rentals Ltd. and other companies; Chair. and Chief Exec. B.O.A.C. 1964-68; Dir. B.E.A. 1959-68; Chair. Air Transport Insurance Ltd. Bermuda 1969-71; Dir. several Jersey Cos. *Leisure interests:* dendrology, sailing, walking. *Address:* Rozel, Jersey, Channel Islands.

GUTHRIE, Randolph Hobson, B.S., LL.B.; American lawyer and business executive; b. 1905, Richmond, Va.; s. of Mr. and Mrs. Joseph H. Guthrie; m. Mabel E. Welton 1934; two s. one d.; ed. The Citadel, Charleston and Harvard Law School; Sr. Partner of Mudge, Rose, Guthrie and Alexander and predecessor firms since 1943; Chair. Bd. of Studebaker-Worthington Inc. 1963-71, Chair. Exec. Cttee. 1971; Chair. Bd. of UMC Industries Inc. 1969-76, Chair. Exec. Cttee. 1976-. *Leisure interest:* golf. *Address:* 20 Broad Street, New York, N.Y. 10005 (Office); South Beach Lagoon, Hilton Head, S.C., U.S.A. (Home). *Telephone:* 212-422-6767.

GUTIÉRREZ CANO, Joaquin; Spanish international bank official; b. 1920; ed. Univ. of Madrid; Spanish Diplomatic Service 1947-57; Pres. Spanish Fruit Producers' and Exporters' Assn. 1958; M.P. 1958-; mem. Council of Inst. of Fiscal Studies 1960-; Perm. Counsellor, Nat. Econ.; mem. Bd. Bank of Spain 1962-, Bank of Industrial Credit 1962-; Exec. Dir. for Spain, Italy, Greece and Portugal, Int. Bank for Reconstruction and Devt. (World Bank) 1963-68; Minister of Devt. Planning 1974-76. *Address:* c/o Ministry of Development Planning, Madrid, Spain.

GUTIÉRREZ GÓMEZ, José, D.IUR., D.RER.POL.; Colombian diplomatist; b. 1909; ed. Univ. de Antioquia; Man. Cali Agricultural,

Industrial and Mining Credit Bank 1932-35, Uribe Angle Lab., Medellín 1935-46; Chair. Nat. Assen. of Industrialists (ANDI) 1946-57; mem. Govt. Econ. Cttee. 1947-48, Econ. Mission to Washington 1948; Del., with rank of Amb., Ninth Gen. Ass. of UNOAS 1952, Fourth Extraordinary Session, Inter-American Econ. and Social Council, Rio de Janeiro 1954; Mayor of Medellín 1957; Amb. to U.S.A. and to Council of OAS 1957-60; Dir. Corporación Financiera Nacional 1961-, now Pres.; Hon. D.Econ. (Univ. de Antioquia). *Address:* Corporación Financiera Nacional, Apdo. Aéreo 1039, Medellín, Colombia.

GUTIÉRREZ, Julio César, DR. ECON.; Paraguayan economist and banker; b. 11 Feb. 1920; s. of Emilio and Amalia Gutiérrez; m. Beatriz Ferrari 1963; three s. and two d.; ed. Escuela Nacional de Comercio, Asunción, Universidad Nacional, Asunción, and Centro de Estudios Monetarios Latinamericano, Mexico; Supt, of Banks, Paraguay 1950-56; Financial Adviser to Ministry of Finance 1957-58; Nat. Financial Controller, Paraguay 1959-62; Dir. of Seminary, Faculty of Econ. Sciences, Asunción 1957-60, Univ. Prof. 1960-62; Econ. Counsellor, Paraguayan Embassy, Washington 1962-69; Exec. Dir. Inter-American Devt. Bank (IDB) 1964-70; Rep. of the IDB in Lima, Peru 1971-73; Exec. Dir. IDB and Minister of Paraguayan Embassy, Washington 1974-76, Exec. Dir. IBRD 1976-78; Exec. Dir. IMF 1978-. *Leisure interests:* fishing and golf. *Address:* International Monetary Fund, 19th and H Streets, N.W., Washington, D.C. 20431 (Office); 5504 Surrey Street, Chevy Chase, Md. 20015, U.S.A. (Home). *Telephone:* 301-986 1278.

GUTIÉRREZ, Mario R.; Bolivian politician and diplomatist; b. 19 Oct. 1917, Santa Cruz de la Sierra; m.; five c.; ed. Univ. Católica de Chile and Gabriel René Moreno Univ., Santa Cruz; mem. Bolivian Socialist Falange; Minister for Foreign Affairs 1971-73; six times interim Pres. of Bolivia; served as Deputy and Senator for La Paz in Nat. Congress; Amb. to UN 1975-78. *Publications:* Alegato Histórico de los Derechos de Bolivia al Pacífico, Predestinación Histórica de Bolivia, Sangre y Luz de Dos Razas, Soberania y Entreguismo, Presencia Internacional de Bolivia. *Address:* c/o Ministry of Foreign Affairs, La Paz, Bolivia.

GUTIÉRREZ MELLADO, Lieut.-Gen. Manuel; Spanish army officer and government official; b. 30 April 1912, Madrid; ed. Gen. Mil. Acad.; Lieut. in Artillery 1933; took part in civil war, Capt. 1938; Major 1944; Prof. School of Artillery 1944; Lieut.-Col. 1957, Col. 1965; Command, 13 Artillery Regt.; Brig.-Gen. 1970; Prof., Higher Centre of Nat. Defence Studies (CESEDEN), then worked at Supreme Mil. Command 1970-73; Chair. various comms. and inter-ministerial councils 1970-73; Div.-Gen. and mem. Supreme Army Command 1973-75; Commdt.-Gen. and Govt. Rep. in Ceuta 1975-76; Lieut.-Gen. March 1975-; Capt.-Gen. of 7th Mil. Region March-Sept. 1976; Chief of Gen. Staff June-Sept. 1976; First Deputy Prime Minister (for Defence Affairs) Sept. 1976-; Grand Cross of Order of San Hermenegildo, of Order of Mil. Merit and of Order of Aeronautical Merit; Order of Isabel la Católica; Medal of Merit (First Class) Portugal. *Address:* Consejo de Ministros, Madrid, Spain.

GUTMANN, Viktor, DIP. ING., DR. TECH., DR. PHIL., SC.D.; Austrian chemist; b. 10 Nov. 1921, Vienna; s. of Viktor Gutmann and Margarete Lehmann; m. Elisabeth Schuster 1968; two s. two d.; ed. Tech. Univ. of Vienna; Asst. in research, Tech. Univ. of Vienna 1946-48, 1950-52, Dozent 1953-57, Prof. of Inorganic Chemistry 1957-, Head of Dept. 1960-; Post-Doctoral Fellow, Cambridge 1948-50; Prof. of Inorganic and Analytical Chemistry, Baghdad Univ. 1952-53; mem. Göttingen Acad. of Science, Austrian Acad. of Science, Leopoldina Acad. of Science (Halle); Dr. Rer. Nat. (L.C.); J. Heyrovsky Medal; Carl Friedrich Gauss Medal. *Publications include:* Halogen Chemistry (Editor) 1968, Chemical Coordination in non-Aqueous Solutions 1968, Chemical Functionality 1971, General and Inorganic Chemistry 1971, The Donor-Acceptor Approach to Molecular Interactions 1978 and numerous articles; 340 research papers. *Leisure interests:* mountaineering, skiing, gardening. *Address:* Technische Universität, Getreidemarkt 9, A 1060 Vienna (Office); Trinksgeltgasse 16, A 2380 Perchtoldsdorf, Austria (Home). *Telephone:* 0222-571651-116 (Office); 0222-869519 (Home).

GUTOWSKI, Armin Ferdinand; German professor and economist; b. 14 July 1930, Nuremberg; s. of Adam and Meta Gutowski; m. Dr. Renate Merklein 1973; ed. Univs. of Nuremberg, Hamburg and Mainz; Research Assoc., Research Inst. of Political Econs., Univ. of Mainz 1952-66; Rockefeller Research Fellow, Calif., Princeton and Chicago Univs. 1960-61; Deputy Chief Economist, Kreditanstalt für Wiederaufbau, Frankfurt (Main) 1966-67, Chief Econ. Adviser 1967-79; Prof. of Econs. and Devt., Univ. of Giessen 1967-70; Chair. and Dir. Tropeninstitut, Giessen 1969-70; Prof. of Econs. (Money and Int. Finance) Univ. of Frankfurt 1970-78; Prof. of Econs. (Int. Econ. Policy) Univ. of Hamburg 1978-; Pres. HWWA-Inst. for Econ. Research, Hamburg 1978-; mem. Council of Econ. Experts on Devt. in Fed. Repub. of Germany 1970-78; mem. Bd. of Advisers, Fed. Ministry of Economy 1970-; mem. Mont Pelerin Soc., Dir. 1970-74; Co-Editor Wirtschaft und Wettbewerb 1973-. *Publications:* books: Konstruktions- und Entwicklungsaufträge 1960, Wirtschaftliche Weinbaupolitik 1962, Konglomerate Unternehmungsgrösse und wirtschaftliche Macht 1971, International Monetary Problems (co-author) 1972; papers: Theoretical Approaches to a Concept of Supplier's Power 1973, How the World can Afford OPEC Oil (co-author) 1975, Chances for Price-level Stability in Various International Monetary Systems 1975. *Address:* HWWA-Institut für Wirtschaftsforschung-Hamburg, Neuer Jungfernstieg 21, 2000 Hamburg 36, Federal Republic of Germany. *Telephone:* 040/35621 (Office)

GUTOWSKY, Herbert Sander, PH.D.; American physical chemist; b. 8 Nov. 1919, Bridgman, Mich.; s. of Otto Gutowsky and Hattie Meyers; m. Barbara Joan Stuart 1949; three s.; ed. Indiana and Harvard Univs. and Univ. of Calif. (Berkeley); served in U.S. Army 1941-45; Instructor, Univ. of Ill. 1948, Asst. Prof. 1951-55, Assoc. Prof. 1955-56, Prof. of Physical Chem. 1956-, Head, Div. of Physical Chem. 1956-62, Head, Dept. of Chem. and Chemical Eng. 1967-70, Dir. School of Chemical Sciences, Head, Dept. of Chem. 1970-, Assoc. mem. Center for Advanced Study, Univ. of Ill. 1962-63; Guggenheim Fellow 1954-55; Walker Ames Visiting Prof. at Univ. of Wash. 1957; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; American Chemical Soc. awards: unrestricted grant for petroleum research 1965, Irving Langmuir Award in Chemical Physics 1966, Mid-west Award of St. Louis Section 1973, Peter Debye Award in Physical Chem. 1975; Award of the Int. Soc. of Magnetic Resonance 1974; G. N. Lewis Memorial Lecturer, Univ. of Calif. (Berkeley) 1976; Nat. Medal of Science 1977. *Publications:* Scientific articles, mainly in Journal of American Chemical Soc., Journal of Chemical Physics, Physical Review, Discussions of Faraday Soc., Journal of Physical Chemistry. *Leisure interests:* gardening, bicycling, science fiction, bowling, girl-watching, philately. *Address:* School of Chemical Sciences, University of Illinois, Urbana, Ill. 61801, U.S.A. *Telephone:* 217-333-0710.

GUTTMANN, Sir Ludwig, Kt., C.B.E., F.R.S., M.D., F.R.C.P., F.R.C.S.; British neurosurgeon and spinal cord specialist; b. 3 July 1899, Tost, Silesia, Germany; s. of Bernhard and Dorothy (née Weissenberg) Guttmann, m. Else Samuel 1927; one s. one d.; ed. Gymnasium, Königshutte, Silesia, and Univs. of Breslau (now Wrocław, Poland), Freiburg and Würzburg; Asst. to Prof. O. Foerster, Neurological and Neurosurgical Dept., Wenzel Hancke Krankenhaus, Breslau 1923-28, Assoc. of Prof. Foerster's Clinic 1930-33; Neurosurgeon, Psychiatric Dept., Univ. of Hamburg-Friedrichsberg 1928-29; Dozent Univ. of Breslau 1930; Dir. Neurological and Neurosurgical Dept., Jewish Hosp., Breslau 1933-39; Research Fellow, Neurosurgical Dept., Univ. of Oxford 1939-44; Dir. Nat. spinal Injuries Centre, Stoke Mandeville Hosp. 1944-66, now Emer. Consultant to Hosp.; Dir. Stoke Mandeville Sports Stadium for the Disabled 1969-; Prof. Emer. (Cologne); Hon. Dr., D.Sc., D.Chir., LL.D.; Hon. Dr. of Medicine and Surgery, Univ. of Basle; Hon. Freeman of Aylesbury, Bucks.; Hon F.R.C.P. (Canada); decorations from 19 countries; Hon. mem. medical and other assens. *Publications:* Vol. Surgery, Official British Medical History of World War II 1953, Comprehensive Management and Research of Spinal Cord Injuries 1973, second ed. 1976, Textbook on Sport for the Disabled 1976; 172 publs. in medical and scientific journals. *Leisure interests:* bowling, travelling. *Address:* Stoke Mandeville Sports Stadium for the Paralysed and Other Disabled, Harvey Road, Aylesbury, Buckinghamshire (Office); 26 Northumberland Avenue, Aylesbury, Buckinghamshire, England (Home). *Telephone:* 84848 (Office); 24901 (Home).

GUTTON, André Henry Georges; French architect and town planner; b. 8 Jan. 1904, Fontenay-sous-Bois; s. of Henry B. Gutton; m. Elisabeth Lafargue 1927; two s. one d.; ed. Ecole nationale supérieure des beaux arts and Inst. d'Urbanisme de l'Univ. de Paris; Architect for private bldgs. and nat. palaces 1936-; Prof. Inst. of Town Planning, Sorbonne 1943-49; Prof. of Theory of Architecture, Nat. School of Fine Arts 1949-58, of Town Planning 1958-; Tech. Counsellor, Govt. of Syria 1951; mem. Exec. Cttee. Union internationale des architectes 1949-, Pres. Town Planning Comm. 1951; Consultant Town-Planner Canton of Geneva 1960; Pres. Parisian Order of Architects 1961-; Vice-Pres. Congress of Architects 1965; mem. Acad. of Architecture, Royal Acad. of Belgium; Hon. Fellow American Inst. of Architects; Int. Prize for plan for Place des Nations, Geneva 1958; Officier, Légion d'honneur, Knight, Order of Orange-Nassau, of Dannebrog; Officier des Arts et Lettres.

Major works: Architectural Plans for Institut de France 1943, Post Office Buildings, Paris 1944, The Opera 1950, Post Office Buildings at Versailles, Nancy, Besançon, Chateauroux, Roanne, 92 Neuilly-sur-Marne and schools and offices in France; Town Planning: Plans for Nancy 1938;, Dakar (Senegal), Boulogne, Issy 1945, Aleppo (Syria) 1952, Sihanoukville (Cambodia) 1960. *Publications:* Charte de l'urbanisme 1941, Conversations sur l'architecture: (L'édifice dans la cité, La maison des hommes, les églises et les temples, les universités, L'urbanisme au service de l'homme). *Address:* 4 quai des Célestins, 75004 Paris (Office); 82-84 rue d'Assas, 75006 Paris, France (Home).

GUTTUSO, Renato; Italian painter; b. 2 Jan 1912; mem. of the "Corrente" group 1940-42; one of the founders of the group "Fronte Nuovo delle Arti" 1947; Rep. at Dunn Int. Exhbn., London 1963; Prize for Young Artists 24th Biennale, Venice, one-man show at 26th Biennale, Second Int. Prize for "La Spiaggia" 28th Biennale; Titular Prof. of Design, Liceo Artistico Rome; mem. Lenin Peace Prize Cttee; Lenin Peace Prize 1972. *Address:* Ciancaleoni 1, Rome, Italy.

GUY, Michel; French horticulturist and politician; b. 28 June 1927, Paris; s. of late Georges Guy and Aline Charon; ed. Ecole Bossuet, Paris; Man. Dir. Etablissements Guy-Charon (horticulture firm) 1950-70; Artistic Adviser, Int. Festival of Dance 1964-71; Founder and Dir.-Gen. Festival d'Automne, Paris 1972-74, 1978-; Sec. of State for Culture 1974-76. *Leisure interest:* collecting modern paintings. *Address:* 156 rue de Rivoli, 75001 Paris, France. (Home).

GUYARD, Marius-François, D.ÈS L.; French university official; b. 18 March 1921, Paris; s. of Marius Guyard and Jeanne Chabrillat; m. Francoise Bordier 1947; two s. two d.; ed. Ecole Normale Supérieure and the Sorbonne; Prof., Univ. of Athens 1955-57, Strasbourg Univ. 1957-63; Cultural Counsellor, French Embassy, U.K. 1963-65; Prof. of French Literature, Sorbonne 1965-67; Vice-Chancellor, Univ. of Montpellier 1967-69, of Amiens 1969-70, of Strasbourg 1970-76, of Lyon 1976-; Chair. Conf. des Recteurs Français 1975-78; Chevalier, Légion d'honneur, Commdr. Ordre national du Mérite, Commdr. Ordre des Palmes académiques, Chevalier des Arts et Lettres, Commdr. Orange-Nassau, Officier Mérite Italien. *Publications:* La Grande-Bretagne dans le roman français 1954, Recherches Claudéliennes 1964, editions of Lamartine and Hugo, numerous contributions to revues and critical anthologies. *Address:* 30 rue Cavenne, Lyon, Rhône, France. *Telephone:* 58-54-53.

GUYER, Roberto E., LL.D.; Argentine UN official; b. 10 March 1923, Buenos Aires; m. María Julia Mackinlay 1962; ed. Buenos Aires School of Law, Acad. of Int. Law, The Hague, and Oxford and Columbia (N.Y.) Univs.; entered Argentine Foreign Service 1956; served in Washington, Bonn, The Hague (as Amb.) and as mem. of Argentine del. to UN and OAS; also held various senior posts in Argentine Ministry of Foreign Affairs; fmr. Prof. of Int. Law, Univ. de Buenos Aires and Colegio Nacional de Guerra; UN Under-Sec.-Gen. for Special Political Affairs March 1971-; Personal Rep. of Sec.-Gen. to Geneva Peace Conference on Middle East. *Address:* United Nations, New York, N.Y. 10017, U.S.A.

GUYOT, H.E. Cardinal Louis Jean, D.THEOL.; French ecclesiastic; b. 7 July 1905, Bordeaux; ed. Univ. of Bordeaux, Grand Séminaire and Collegium Angelicum, Rome; ordained Priest 1932; Priest, Bordeaux 1932; served as Diocesan Chaplain, Collège Saint-Genès and later in youth insts. for eight years; Founder, Séminaire Saint-Maurice pour les Vocations d'Aînés 1938; Vicar-Gen. 1944-49; Coadjutor to Bishop of Coutances 1949; Bishop of Coutances 1950-67; Pres. Comm. épiscopale du Clergé et des Séminaires and mem. Bd., Conseil Permanent, Gen. Synod 1964; Archbishop of Toulouse 1966-; created Cardinal by Pope Paul VI 1973; Keeper Acad. des Jeux Floraux de Toulouse; Officier, Légion d'honneur; Grand Croix Ordre de Malte. *Address:* Archevêché, 24 rue Perchepinte, 31073 Toulouse Cedex, France. *Telephone:* 52-32-01.

GUZHENKO, Timofey Borisovich; Soviet politician; b. 15 Feb. 1918, Tatarinovo, Kursk Region; ed. Odessa Inst. of Marine Transport and Acad. of Merchant Marine; Engineer, Murmansk Port 1942-49; Dir. Kholmsk and Korsakov ports 1951-55; Pres. Sakhalin Steamship Co. 1955-60; Head of Main Dept., U.S.S.R. Ministry of Merchant Marine 1960-62; Deputy Head of Dept., CPSU Central Cttee. 1962-66; First Vice-Minister, U.S.S.R. Ministry of Merchant Marine 1966-70, Minister 1970-; mem. CPSU 1941, cand. mem. Cen. Cttee. CPSU 1971-76, mem. Cen. Cttee. CPSU 1976-; Deputy to USSR Supreme Soviet 1970-; Order of Lenin (twice), Red Banner of Labour, Red star, etc. *Address:* Ministry of Merchant Marine, 1/4 Ulitsa Zhdanova, Moscow, U.S.S.R.

GUZMAN, Antonio; Dominican politician. Cattle rancher; Presidential Cand. of Dominican Revolutionary Party 1978, President of Dominican Republic. July 1978-. *Address:* Office of the President, Santo Domingo, Dominican Republic.

GUZMÁN, Martin Luiz; Mexican writer, journalist and politician; b. 6 Oct. 1887; s. of Martín L. Guzmán and Carmen Franco Terrazas; m. Anita West Villalobos 1909; three s.; ed. Escuela Nacional Preparatoria and Univ. de México; Editorial Staff, El Imparcial 1908; took part in Mexican Revolution 1913; Co-founder El Honor Nacional 1913; Counsellor to Minister of War 1914; exile 1914-20; Editor-in-Chief El Heraldo de México 1920; Founder El Mundo 1922; mem. Chamber of Deputies 1922-24; lived in Spain 1924-30; Founder (fmrly. Man. Dir.) Tiempo (Mexico) 1942-; Amb. to UN 1951; Pres. Comisión Nacional de los Libros de Texto Gratuitos 1964-. *Publications:* La querella de México 1915, A orillas del Hudson 1922, El águila y la serpiente 1928, Aventuras democráticas 1929, La sombra del caudillo 1929, Javier Mina 1932, Filadelfia, paraíso de conspiradores 1933, El hombre y sus armas 1938, Campos de batalla 1939, Panoramas políticos y la causa del pobre 1940, Memorias de Pancho Villa 1951, Muertes históricas 1958, Otras páginas 1959, Academia e Islas Marías 1959, Axkaná González en las elecciones 1960, Maestros rurales y Piratas y Corsarios 1960, Necesidad de cumplir las leyes de Reforma 1963, Febrero de 1913 1963, Crónicas de mi destierro 1963. *Address:* Tiempo, Barcelona 32, Apartado 1122, México, D.F., Mexico.

GUZMÁN NEYRA, Alfonso; Mexican politician and judge; b. 1906, Pánuco, Ver.; s. of Alfonso Victor Gusmán Rodríguez; m. Adelaida Rodríguez Quiroz de Guzmán 1936; one s.; ed. Univ. Nacional Autónama de México. Pres., Supreme Tribunal of Justice, Veracruz; Deputy for First District, Veracruz; Pres. Fed. Cttee. for Conciliation and Arbitration; Dir. Govt. Works in Fed. District; Pres. Regional Cttee. of Partido Revolucionario Institucional (PRI); Pres. Supreme Court of Justice 1959-64; Judge Fourth Chamber 1965-69; Pres. Supreme Court of Justice 1969-74. *Leisure interest:* shooting. *Address:* Alejandro Dumas 15, Colónia Polanco, México 5, D.F., Mexico. *Telephone:* 5-20-04-79.

GVATI, Chaim; Israeli farmer and politician; b. 29 Jan. 1901, Pinsk, Russia; s. of Shmuel and Esther Gvati; m. Luba Laskov 1925; one d.; ed. Vilna, Poland, and Russian Univ.; emigrated to Israel 1924; mem. Kibbutz 1924-, mem. Kibbutz Meuchad Central Cttee. 1942-45; Chair. Security and Farming Cttees. of The Agricultural Centre 1945-49; Dir.-Gen. Ministry of Agric. 1950-57; Sec. Ichud Hakvutzot Veakibbutzim 1959-62; Sec. Fed. of Kibbutz Movement 1963-64; Minister of Agric. 1964-74; Mapai. *Leisure interest:* Israeli agriculture. *Address:* Kibbutz Yifat, Israel.

GYANI, Lt.-Gen. Prem Singh, O.B.E.; Indian army officer; b. 1910; ed. Rashtra Indian Military Coll., Dehra Dun, and R.M.A., Woolwich; Commissioned and joined Regt. of Artillery 1932; passed Staff Coll., Quetta 1941; commanded Field Regt. Burma theatre 1944-46; Dir. of Artillery, Army HQ 1947-50; attended Imperial Defence Coll., London 1951; commanded Infantry Brigade 1952-54; alternate Del. (mil.), Int. Comm. for Truce Supervision and Control, Laos 1954-55; Commdt. Defence Services Staff Coll., Wellington, India 1955-59; G.O.C. Infantry Div. 1959; Commdr. UN Emergency Force Gaza 1959-64; UN Observer in Cyprus 1964; Commdr. UN Cyprus Force March-June 1964; Pres. Birla Inst. of Tech., Ranchi 1965-67; mem. Punjabi Univ. Syndicate 1971-73; Trustee The Tribune, Chandigarh 1972-. *Address:* 25 Sector 5, Chandigarh, Punjab, India.

GYENES, András; Hungarian politician; b. 1923, Kisbecskerek; ed. Communist Party Acad., Moscow; joined CP 1945; held various trade union positions 1944-58; Vice-Pres. Hungarian Council for Physical Training and Sports until 1962; Deputy Head, Foreign Dept., Cen. Cttee., Hungarian Socialist Workers' Party (HSWP) 1962-69, Head 1969-70, 1971-74; Deputy Minister of Foreign Affairs 1970-71; Amb. to German Democratic Repub. 1974-75; Sec. Cen. Cttee., HSWP 1975-. *Address:* Hungarian Socialist Workers' Party, 1387 Budapest, Széchenyi rakpart 19, Hungary. *Telephone:* 111-400.

GYLLENHAMMAR, Pehr Gustaf; Swedish business executive; b. 28 April 1935, Gothenburg; m. Christina Gyllenhammar; four c.; ed. Univ. of Lund and Centre d'Etudes Industrielles, Geneva; employed by Amphion Insurance Co. 1960; Asst. Admin, Head, Skandia Insurance Co. 1965, Deputy Man. Dir. 1968. Pres. Skandia Co. 1970; Pres. Volvo Group May 1971-. *Address:* AB Volvo, S 40508, Gothenburg, Sweden.

GYÖRI, Imre; Hungarian politician; b. 1924; successively Section Head of Hungarian Socialist Workers' Party Cen. Cttee., Deputy Leader of Agitation and Propaganda Dept., First Sec. of Municipal Party Cttee. of Szeged; M.P. 1963-; mem. Cen. Cttee., HSWP 1966-Sec. 1974-; Labour Order of Merit 1958, 1965, 1970; Jubilee Commemorative Medal of Liberation 1970. *Address:* Hungarian Socialist Workers' Party, 1387 Budapest, Széchenyi rakpart 19, Hungary. *Telephone:* 111-400.

GYSI, Klaus; German journalist and diplomatist; b. 3 March 1912; Joined Communist Party (RPD) 1931; Chief Editor Aufbau 1945-48, Fed. Sec. Kutturbund 1948-50; Head of Aufau publrs., 1957-66; mem. Volkskammer, German Democratic Repub. 1949-; Minister of Culture 1966-73; Amb. to Italy 1973-78; Vaterländischer Verdienstorden in Silver and Gold, Order "Banner der Arbeit". *Address:* c/o Ministry of Foreign Affairs, Berlin, German Democratic Republic.

H

HAACK, Dieter; German lawyer and politician; b. 9 June 1934, Karlsruhe; s. of Dr. Albrecht H. and Irmgard (Faber) Haack; two s. two d.; ed. grammar school, Erlangen and Bonn Univs.; served as Assessor, Bavarian Civil Service 1962-63; in Fed. Ministry for Intra-German Relations 1963-69, Dir. and Adviser, Office of Ministers; mem. Social Democratic Party (SPD) 1961-, mem. SPD District Council, Siegkreis 1964-69, Chair. 1966-68, Chair. SPD Exec. Cttee., Franconia, Deputy Chair. Bavaria; mem. Bundestag 1969-; Sec. of State to Minister of Regional Planning, Housing and Urban Devt. 1972-78, Minister Feb. 1978-. *Address:* Bundesministerium für Raumordnung, Bauwesen und Städtebau, 5300 Bonn 2 (Bad-Godesberg), Deichmannsaue, Federal Republic of Germany.

HAACK, Robert William; American financial executive; b. 15 Feb. 1917; ed. Hope Coll. and Harvard Business School; naval service, Second World War; with Robert W. Baird & Co. (Milwaukee securities firm) until 1964, Partner 1950-64; Pres. Nat. Assn. of Securities Dealers, Washington 1964-67; Pres. New York Stock Exchange 1967-72; Chair. Lockheed Aircraft Corpn. 1976-77; Dir. Pan American World Airways. *Address:* c/o Lockheed Aircraft Corporation, 2555 Hollywood Way, Burbank, Calif. 91503, U.S.A.

HAAK, Jan Friedrich Wilhelm; South African lawyer and politician; b. 20 April 1917, Prince Albert; m. Maria Theron 1944; three c.; ed. Prince Albert School and Univ. of Stellenbosch; Attorney, Bellville, Cape Town and Pretoria 1945-48 and Pretoria 1977-; Advocate, Cape Bar 1960; Mayor of Bellville 1949-51; M.P. 1953-; Deputy Minister of Econ. Affairs 1961-64, Deputy Minister of Mines 1962-64, of Planning 1962-64; Minister of Mines and Planning 1964-67, of Econ. Affairs 1967-70; mem. Chief Council of Nat. Party 1951-, Prime Minister's Econ. Advisory Council 1975-76; Pres. Afrikaans Handelsinstituut. *Address:* Box 2108, Pretoria 0001, Republic of South Africa. *Telephone:* 41-1112, 41-1169.

HAAVIKKO, Paavo Juhani, PH.D.; Finnish writer and publisher; b. 25 Jan. 1931, Helsinki; s. of Heikki Adrian Haavikko and Rauha Pyykönen; m. 1st Marja-Liisa Vartio (née Sairanen) 1955 (died 1966), one s. one d.; m. 2nd Ritva Rainio (née Hanhineva) 1971; ed. Univ. of Helsinki; worked in real estate concurrently with career as writer 1951-67; mem Bd., Finnish Writers' Assn. 1962-66; mem. State Cttee. for Literature 1966-67; mem. Bd. of Yhtyneet Kuvalehdet magazine co. and Suuri Suomalainen Kirjakerho (Great Finnish Book Club) 1969; Literary Dir. Otava Publishing Co. 1967-; six state prizes for literature; Pro Finlandia Medal. *Publications:* Tiet etäisyyksiin 1951, Tuuliöinä 1953, Synnyinmaa 1955, Lehdet lehtiä 1958, Talvipalatsi 1959, Runot 1962, Puut, kaikki heidän vihreytensä 1966, Neljätoista hallitsijaa 1970, Puhua vastata opettaa 1972, Runoja matkalta salmen ylitse 1973, Kaksiky m mentä ja yksi 1974, Runot 1949-1974 1975, Runoelmat 1975, Viiniä, Kirjoitusta 1976 (poems); Poésie 1965, Jahre 1967, Gechichte 1967, Selected Poems 1968, The Superintendent 1973, Le palais d'hiver 1976 (translations); Münchhausen, Nuket 1960, Ylilääkäri 1968, Sulka 1973, Mommilan veriteot 1917 1973, Harald Pitkäikäinen 1974 (plays); Ratsumies 1974 (libretto); Yksityisiä Asioita 1960, Toinen taivas ja maa 1961, Vuodet 1962, Lasi Claudius Civiliksen salaliittolaisten pöydällä 1964 (prose), Kansakun nan linja 1977. *Address:* Tamminiementie 15, 02940 Espoo 94, Finland.

HABAKKUK, Sir Hrothgar John, KT., M.A., F.B.A.; British economic historian; b. 13 May 1915, Barry, Glam.; s. of Evan Guest Habakkuk and Anne Bowen; m. Mary Richards 1948; one s. three d.; ed. Barry County School, Univ. Coll., Cardiff, St. John's Coll., Cambridge. Fellow, Pembroke Coll., Cambridge 1938-50, Dir. of Studies in History 1946-50; Lecturer, Faculty of Econs., Cambridge 1946-50; Chichele Prof. of Econ. History, Fellow, All Souls Coll., Oxford 1950-67; Principal, Jesus Coll., Oxford 1968-; Vice-Chancellor Univ. of Oxford 1973-77; Pres. Univ. Coll. of Swansea 1975-; Pres. Royal Historical Soc. 1976-; Chair. Cttee. of Vice-Chancellors and Principals 1976-77; mem. Royal Comm. on Historical Manuscripts 1978-; mem. Cttee., Int. Assn. of Univs.; Hon. Fellow, St. John's and Pembroke Colls., Cambridge; Foreign mem. American Acad. of Arts and Sciences, American Philosophical Soc.; Hon. D.Litt. (Cambridge, Wales, Pennsylvania, Kent). *Publications:* American and British Technology in the Nineteenth Century 1962, Population Growth and Economic Development 1971, Editor, Cambridge Economic History of Europe Vol. VI. *Address:* The Lodgings, Jesus College, Oxford, England. *Telephone:* Oxford 48140.

HABASH, George, M.D.; Palestinian nationalist leader; b. 1925, Lydda, Palestine; ed. American Univ. of Beirut; mem. Youth of Avengeance 1948 and Arab Nationalists' Movement early 1950s; practised as doctor 1950s; leader of Popular Front for the Liberation of Palestine Nov. 1967-. *Address:* c/o Palestine Liberation Organization, Colombani Street, Off Sadat Street, Dr. Raji Nasr Building, Ras Beirut, Lebanon.

HABBEL, Wolfgang R., DR.JUR.; German lawyer and executive; b. 25 March 1924, Dillenburg; s. of Werner and Dorothea Habbel; m. Susan Roedter 1951; two s. Asst. to Bd. of Man., Auto Union GmbH 1951-59; Personnel Man., European Labour Relations Coordinator, Ford of Europe 1960-69; mem. Man. Bd., Boehringer, Ingelheim 1970-71, Audi NSU 1971-78; Chair. Man. Bd., Audi NSU and mem. Man. Bd., Volkswagen 1979-; mem. Bd. of Dirs., Gerresheimer Glas AG, N.C.R. GmbH. *Leisure interest:* golf. *Address:* Höhenstrasse 5, 8068 Pfaffenhofen 1, Federal Republic of Germany. *Telephone:* 08441/22 33.

HABECK, Fritz, DR.IUR.; Austrian writer; b. 8 Sept. 1916, Neulengbach; s. of late Dr. Karl and Marianne H. (née Adelsmayr) Habeck; m. Gerda Vilsmeier 1951; two s. two d.; ed. Univ. of Vienna; served in German Army during Second World War; Asst. Man. Josefstadt Theatre, Vienna 1946; radio producer in Vienna 1953-77; Goethe Award of City of Vienna, City Prize of Vienna, Austrian State Prize, Handel-Mazzetti Prize, Vienna Children's Book Prize 1960, 1961, 1963, 1967, 1970, 1973, State Children's Book Prize 1963, 1967, Wildgans Prize of Austrian Industry 1964, Stifter Prize 1973. *Publications:* Novels: Der Scholar vom linken Galgen 1941, Der Tanz der sieben Teufel 1950, Das Boot kommt nach Mitternacht 1951, Das zerbrochene Dreieck 1953, Ronan Gobain 1956, Der Ritt auf dem Tiger 1958, Der Kampf um die Barbacane 1960, Die Stadt der grauen Gesichter 1961, Der verliebte Oesterreicher 1961, Der einäugige Reiter 1963, In eigenem Auftrag (Selections) 1963, Der Piber 1965, Die Insel über den Wolken 1965, König Artus 1965, Aufstand der Salzknechte 1967, Salzburg-Spiegel 1967, Marianne und der wilde Mann 1968; François Villon 1969, Doktor Faustus 1970, Johannes Gutenberg 1971, Schwarzer Hund im goldenen Feld 1973; Der schwarze Mantel meines Vaters 1976; Plays: Zwei und zwei ist vier 1948, Baisers mit Schlag 1950, Marschall Ney 1954. *Leisure interests:* gardening, chronicle of the family. *Address:* Grillparzerstrasse 6, A-2500 Baden, Austria. *Telephone:* 02252-39-695.

HABEL, Karl, M.D.; American medical researcher; b. 28 Sept. 1908, Philadelphia, Pa.; s. of Charles Habel and Claire Ward; m. Ruth J. Carter 1934; one s. one d.; ed. Univ. of Pennsylvania and Jefferson Medical Coll.; Intern. Philadelphia Gen. Hosp. 1935; Resident, then Asst. Chief Resident Phila. Gen. Hosp. for Pediatrics 1936; Asst. Chief Resident, Phila. Hosp. for Contagious Diseases 1938; Commissioned Officer, U.S. Public Health Service (U.S.P.H.S.) 1938-67; Chief of various Depts. at Microbiological Inst. 1948-67; mem. Dept. of Experimental Pathology, Scripps Clinic and Research Foundation, La Jolla, Calif. 1967-75; at Reading Inst. of Rehabilitation, Pa. 1975-; Editor, Proceedings of the Soc. for Experimental Biology and Medicine 1954-63, Virology 1962-, Journal of Immunology 1966-; Consultant to Comm. on Immunization, Armed Forces Epidemiological Bd. 1956-; mem. Advisory Cttee. Pan American Health Org. 1976-, Expert Cttee. Rabies, WHO 1968-, and mem. numerous other cttees.; mem. Nat. Acad. of Sciences, A.A.A.S., New York Acad. of Science, American Acad. of Microbiology and others; Distinguished Service Medal U.S.P.H.S. 1966. *Publications:* 115 scientific articles and WHO pamphlets. *Address:* Room 108E, Reading Institute of Rehabilitation, RD 1, Box 252, Reading, Pa. 19607, U.S.A.

HABERER, Jean-Yves; French government official; b. 17 Dec. 1932, Mazagan, Morocco; m. Anne du Crest 1959; two c.; ed. Inst. d'Etudes politiques, Ecole Nat. d'Admin.; Inspecteur des Finances 1959; Tech. Adviser to Finance Ministry 1966; Asst. Dir. of Treasury 1967; Head of Office of Minister of Foreign Affairs 1968, of Minister of Defence 1969; Head of Dept. in Treasury 1970; Head of Office of Minister of Econ. and Finance 1976; Dir. of the Treasury 1978-; Chevalier, Legion d'honneur 1978. *Address:* 10 rue Rémusat, 75016 Paris, France. *Telephone:* 525-15-04.

HABERLER, Gottfried, DR.RER.POL., D.IUR.; Austrian-born American economist; b. 20 July 1900; ed. Vienna Univ.; Graduate student London, Harvard and other Univs. 1927-29; lecturer, later Prof. of Econ. and Statistics, Vienna Univ. 1928-36; Visiting lecturer, Harvard Univ. 1931-32; attached to Financial Section, League of Nations, Geneva 1934-36; settled in U.S.A. 1936; Prof. of Int. Trade Harvard Univ. 1936-71; Prof. Emer. Harvard Univ.; Resident

Scholar, American Enterprise Inst.; Assoc. Bd. of Govs., Fed Reserve System, Washington 1943; Pres. Int. Econ. Assn. 1950-51, Hon. Pres. 1953-; Pres. Nat. Bureau of Econ. Research 1955; mem. American Econ. Assn. (Vice-Pres. 1948), Royal Econ. Soc.; Charter mem. Econometric Soc.; Pres. American Econ. Assn. 1963-. *Address:* American Enterprise Institute, 1150 17th Street, N.W., Washington, D.C. 20036 (Office); 4108 48th Street, N.W., Washington, D.C. 20016, U.S.A. (Home). *Telephone:* 202-296-5616 (Office); 202-244-1774 (Home).

HABERMEIER, Walter O.; German international finance official; b. 24 Jan. 1931, Heilbronn; m.; two s.; ed. Univs. of Tübingen and Munich; with German Fed. Bank, Dept. of Int. Orgs. and Agreements 1957-60; mem. German Perm. Del., OEEC, Paris 1960-61; Asst. to Pres. European Monetary Agreement 1960-61; Alternate Exec. Dir., IMF 1962-65; Special Adviser, German Fed. Bank 1966; Deputy Treas., IMF 1966, Treas. 1969-. *Address:* International Monetary Fund, 700 19th Street, N.W., Washington, D.C. 20431, U.S.A.

HABGOOD, Rt. Rev. Dr. John Stapylton, D.D., M.A., PH.D.; British ecclesiastic; b. 23 June 1927, Stony Stratford; s. of Arthur Henry Habgood and Vera Chetwynd-Stapylton; m. Rosalie Mary Anne Boston 1961; two s. two d.; ed. Eton Coll., King's Coll. Cambridge Univ. and Cuddesdon Coll. Oxford; Demonstrator in Pharmacology, Cambridge Univ. 1950-53; Fellow, King's Coll. Cambridge Univ. 1952-55; Curate, St. Mary Abbott's Church, Kensington 1954-56; Vice-Principal, Westcott House, Cambridge 1956-62; Rector, St. John's Church, Jedburgh, Scotland 1962-67; Principal, Queen's Coll., Birmingham 1967-73; Bishop of Durham 1973-. *Publication:* Religion and Science 1964. *Leisure interests:* carpentry, caravanning. *Address:* Auckland Castle, Bishop Auckland, Co. Durham, DL14 7NR, England. *Telephone:* Bishop Auckland 2576.

HABIB, Philip Charles, B.S., PH.D.; American diplomatist; b. 25 Feb. 1920 New York; s. of Alexander and Mary (Spiridon) Habib; m. Majorie Slightam 1942; two d.; ed. Univ. of Idaho, and Univ. of California (Berkeley); served U.S. army 1942-46 (rank of Capt.); entered Foreign Service 1949; Third Sec. U.S. Embassy, Canada 1949-51; Second Sec. New Zealand 1952-54; Research specialist, Dept. of State, Washington 1955-57; U.S. Consulate-Gen., Trinidad 1958-60; Foreign Affairs Officer, Dept. of State 1960-61; Counsellor for Political Affairs U.S. Embassy, Repub. of Korea 1962-65, Repub. of Viet-Nam 1965-67; rank of Minister 1966-67, Amb. 1969-71; Deputy Asst. Sec. of State for East Asian and Pacific Affairs 1967-69; Adviser U.S. Del. to meetings on Viet-Nam, Paris 1968-71; Amb. to Repub. of Korea 1971-74; Asst. Sec. of State for East Asian and Pacific Affairs 1974-75; Under-Sec. of State for Political Affairs 1976-78; Diplomat-in-Residence, Stanford Univ. 1978-; Rockefeller Public Service Award 1969, Nat. Civil Service League Award 1970. *Address:* Department of State, Washington, D.C., U.S.A. *Telephone:* (202) 632-2471.

HABIB-DELONCLE, Michel, L. ÈS L., L. EN D.; French lawyer and politician; b. 26 Nov. 1921, Neuilly-sur-Seine; s. of Louis Habib and Jeanne Deloncle; m. Colette Sueur 1944; three s. two d.; ed. Ecole libre des Sciences Politiques, Paris and Faculties of Law and Letters (Sorbonne), Univ. of Paris; Resistance Movement 1941-45; Journalist, France Catholique 1945-53; Sec.-Gen. Parl. Group Rassemblement du Peuple Français 1948-54; mem. Assen. of the French Union 1954-58; Deputy 1958-73; Sec. of State to the Ministry of Foreign Affairs 1962-66, to the Ministry of Educ. 1966-67; mem. European Parl. 1967, Vice-Pres. 1972; Int. Relations Del., Exec. Cttee. Union Démocratique pour la Vie République 1968-74; Deputy Sec.-Gen. UDR 1971; mem. Cen. Cttee. RPR 1977-; Political Editor, La Nation 1968-74; Pres. Chambre de Commerce Franco-arabe 1970-. *Leisure interests:* shooting, gardening, mushrooms. *Address:* 46 avenue d'Iéna, 75116 Paris, France.

HABY, René Jean, D. ÈS L.; French educator and politician; b. 9 Oct 1919, Dombasle; s. of René Haby and Marguerite (née Demangeon); m. Paulette Masson 1945; one s. two d.; ed. Ecole Normale d'Instituteurs de Nancy, Faculté des Lettres de Nancy; History teacher, Lycées of Lons-le-Saumier 1947, Toul 1949, Nancy 1952; Proviseur, Lycées of St. Arold 1954, Avignon 1958, Metz 1960, Montgeron 1962; Dir. of Teaching, Ministry of Nat. Educ. 1962-64; Insp. Gén. de l'Instruction Publique 1963-; Asst. Dir.-Gen. of Teacher Training 1964-65; Lecturer, Faculty of Letters and Human Sciences, Nancy 1965, Paris IV 1970; Dir. du Cabinet to Minister of Youth and Sports 1966-68; Rector. Acad. de Clermont-Ferrand 1972-74; Minister of Educ. 1974-78; Chevalier, Légion d'honneur, Commdr. Ordre nat. du Mérite; Officier des Palmes académiques. *Publications:* La région des houillères lorraines 1965, Déformations rocheuses au-dessus des excavations souterraines 1970; many articles on the economy of N.E. France and on education. *Leisure interest:* tennis. *Address:* Le Nouzet, 4 Chemin du Dessus-des-Vignes, 91230 Montgeron, France.

HABYALIMANA, Maj.-Gen. Juvénal; Rwandan army officer and politician; b. 3 Aug. 1937, Gasiza, Gisenyi; s. of Jean-Baptiste Ntibazilikana and Suzanne Nyirazuba; m. Agathe Kanziga 1963; seven c.; ed. Coll. St. Paul, Bukavu, Zaire, Lovanium Univ., Kinshasa and Officers' School, Kigali; joined Nat. Guard as Platoon Leader, became Co. Commdr. and later Asst. Staff Officer to Commdr. of Nat. Guard; Chief of Staff 1963-65; Minister for the Nat. Guard and Chief of Staff of Police 1965-73; promoted to Maj. 1964, Lieut.-Col. 1967, Col. 1970, Maj.-Gen. April 1973; led coup to depose Pres. Grégoire Kayibanda July 1973; Pres. of Rwanda July 1973-, Minister of Nat. Defence 1973-, Prime Minister 1974-; Pres. Comité pour la Paix et l'Unité Nat. 1973-75; leader Mouvement révolutionnaire national pour la développement 1975-; Chair. OCAM Conf. of Heads of State and Govt. 1975; numerous foreign decorations. *Address:* Présidence de la République, Kigali, Rwanda.

HACHETTE, Jean-Louis, LIC. EN DR.; French publisher; b. 30 June 1925, Paris; m. Y. de Bouillé 1954; one s. two d.; ed. Collège Stanislas, Paris, and Faculté de Droit, Paris; joined Librairie Hachette (founded by great-grandfather in 1826) 1946; entire career spent with Librairie Hachette, now Admin.; Pres. Librairie Gén. Française. *Leisure interests:* polo, golf, skiing. *Address:* 79 boulevard Saint-Germain, 75006 Paris (Office); 8 rue de Presbourg, 75116 Paris, France (Home). *Telephone:* 325-22-11 (Office); 704-64-75 (Home).

HACKER, Louis Morton, M.A., LL.D.; American university professor and administrator; b. 17 March 1899, New York City; s. of Morris H. and late Celia (née Waxelbaum) Hacker; m. 1st Lillian Lewis 1921; m. 2nd Beatrice Larson 1953; one s. one d.; ed. Columbia Univ; taught history and econs. at Ohio State, Wis., Hawaii, Pa. State, Cambridge, Yeshiva, Fairleigh Dickinson Univs., Utah State Agricultural, Army War, Nat. War Colls., and New School for Social Research, New York; Lecturer, Columbia Univ. 1935-48, Prof. of Econs. 1948-67, Prof. Emer. 1967-; Dean, School of Gen. Studies 1949-58; Harmsworth Prof. of American History, Oxford Univ. and Fellow, Queen's Coll. 1948-49; Editor and contributor of New International Encyclopaedia, Encyclopaedia of Social Sciences, Columbia Encyclopaedia; Editor The American Century Series; Hon. LL.D. (Hawaii), Hon. L.H.D. (Columbia). *Publications:* The United States since 1865 (with B. B. Kendrick) 1932, The Farmer is Doomed 1933, A Short History of the New Deal 1934, The United States: A Graphic History 1937, American Problems of Today 1939, Triumph of American Capitalism 1940, The United States and its place in World Affairs (with others) 1943, Shaping of the American Tradition 1947, New Industrial Relations (with others) 1949, The United States in the Twentieth Century (with H. S. Zahler) 1952, Government Assistance to Universities in Great Britain (with others) 1952, Capitalism and the Historians (with others) 1953, Alexander Hamilton in the American Tradition 1957, American Capitalism 1957, Larger View of the University 1961, Documents in American Economic History (2 vols.) 1961, The World of Andrew Carnegie 1865-1901 1968, The Course of American Economic Growth and Development 1970, Proskauer: His Life and Times (with M. D. Hirsch) 1978. *Leisure interests:* travel, walking, bridge, conversation. *Address:* 430 West 116th Street, New York, N.Y. 10027; and Columbia University, New York, N.Y. 10027, U.S.A. *Telephone:* 212-666-9252.

HACKETT, Gen. Sir John Winthrop, G.C.B., C.B.E., D.S.O. AND BAR, M.C., M.A.; retd. British army officer; b. 5 Nov. 1910, Perth, Australia; s. of Sir John Winthrop Hackett; m. Margaret Frena 1942; three d.; ed. Geelong Grammar School (Australia) and New Coll. Oxford; commissioned 1931; Palestine 1936; Transjordan Frontier Force 1937-40, Syria 1941; Sec. Comm. of Control, Syria and Lebanon; G.S.O. 2, 9th Army; Western Desert 1942; G.S.O. 1, Raiding Forces, GHQ, Middle East Land Forces; Commdr. 4th Parachute Brigade 1943; Italy 1943; Arnhem 1944; Commdr. Transjordan Frontier Force 1947; D.Q.M.G., British Army of the Rhine (B.A.O.R.) 1952; Commdr. 20th Armoured Brigade 1954; G.O.C. 7th Armoured Div. 1956-58; Commdt., Royal Mil. Coll. of Science 1958-61; GOC (C-in-C), Northern Ireland Command 1961-63; Deputy Chief of Imperial Gen. Staff 1963-64; Deputy Chief of Gen. Staff, Ministry of Defence 1964-66; C.-in-C. British Army of the Rhine (B.A.O.R.) and Commdr. Northern Army Group 1966-68; Lees Knowles Lecturer, Cambridge 1961; Kermit Roosevelt Lecturer, U.S.A. 1967; Harmon Memorial Lecturer, U.S.A.F. 1970; Principal, King's Coll., London 1968-75; Pres. Classical Assen. of U.K. 1970-71, English Assen. of U.K. 1973-74; Fellow, King's Coll., London; Hon. Fellow, St. George's Coll., Univ. of Western Australia, New Coll., Oxford; Hon. LL.D. (Queen's Univ., Belfast, Univ. of

Western Australia, Exeter Univ.). *Publications:* Many articles and reviews; I was a Stranger 1977, A History of the Third World War (with others) 1978. *Leisure interests:* travel, fishing, books, wine and music. *Address:* Coberley Mill, Cheltenham, Gloucestershire, England. *Telephone:* Coberley 207.

HACKMAN, Gene; American actor; b. 30 Jan. 1931, San Bernadino; s. of Eugene Ezra Hackman; m. Fay Maltese 1956; one s. two d.; studied acting at the Pasadena Playhouse. *Films include:* Lilith 1964, Hawaii 1966, Banning 1967, Bonnie and Clyde 1967, The Split 1968, Downhill Racer 1969, I Never Sang For My Father 1969, The Gypsy Moths 1969, Marooned 1970, The Hunting Party 1971, The French Connection 1971, The Poseidon Adventure 1972, The Conversation 1973, Scarecrow 1973, Zandy's Bride 1974, Young Frankenstein 1974, The French Connection II 1975, Lucky Lady 1975, Night Moves 1976, Domino Principle 1977, Superman 1978; television includes many guest appearances on US series; also My Father, My Mother, CBS Playhouse 1968, and Shadow on the Land 1971; *theatre includes:* Children From Their Games 1963, Cass Henderson in Any Wednesday 1964, and Poor Richard, 1964. Academy Award for Best Actor, New York Film Critics' Award, The French Connection. *Address:* Creative Management Associates, 8899 Beverly Boulevard, Los Angeles, Calif. 90048, U.S.A.

HADDON-CAVE, Charles Philip, C.M.G., M.A.; British overseas administrator; b. 6 July 1925; ed. Univ. of Tasmania, King's Coll., Cambridge; with Overseas Admin. Service 1952-; successively posted in Kenya, Seychelles and Hong Kong; Financial Sec. Hong Kong 1971-. *Address:* Colonial Secretariat, Central District, Hong Kong (Office); 45 Shouson Hill, Hong Kong (Home).

HADITHI, Murtada al- (see Abdul Bagi, Murtada Said).

HADIWIJAYA, Toyib; D.AGR.SC.; Indonesian agriculturist and politician; b. 12 May 1919, Ciamis, W. Java; ed. Middelbare Landbouwschool Bogor, Faculty of Agriculture, Univ. of Indonesia Bogor, and special studies in U.S.A., Europe and Asia; Asst. plant pathologist, Inst. for Plant Diseases, Dept. of Agriculture, Bogor 1939-48; Student and Instructor of Plant Pathology, Faculty of Agric., Univ. of Indonesia, Bogor 1948-55, Asst. Prof. 1955-56, Prof. 1956-78; Dean of Faculty of Agric. 1957-62; mem. Regional Rep. Council, W. Java 1960-62; Minister of Higher Educ. and Science 1962-64; Amb. to Belgium and Luxembourg 1965-66; Pres. Bogor Agric. Univ. 1966-70; Minister of Plantations 1967-68, of Agric. 1968-78; mem. Supreme Advisory Council and Nat. Ass., mem. Bd. of Trustees Int. Rice Research Inst. Los Baños, Philippines 1970-74; Pres. 19th Session, FAO Conf., Rome 1977; Chair. and mem. of numerous advisory cttees.; chief Del. to several int. confs, numerous medals, awards and prizes. *Publications:* over ninety scientific publications and papers on agric. and higher education in Indonesian, Dutch, English and French. *Address:* Supreme Advisory Council 17Jl. Merdeka Utara, Jakarta Pusat (Office); 9Jl. Perdatam, Jakarta Selantan, Indonesia (Home). *Telephone:* 792400, 794252 Jakarta.

HADLEY, Morris, A.B., LL.B.; American lawyer; b. 21 March 1894, New Haven, Conn.; s. of Arthur Twining Hadley and Helen (Morris) Hadley; m. Katherine C. Blodgett 1919; two s. two d.; ed. Groton School, Yale Univ., and Harvard Law School; Army service (Major) in Europe 1917-19; legal practice in New York 1921-; Trustee, Carnegie Corpn. 1947-67 (Chair. 1955-66); Partner, Milbank, Tweed, Hadley & McCloy; Trustee, New York Public Library (Pres. 1943-58); Hon. LL.D. (Yale, Univ. of Nevada). *Publications:* The Citizen and the Law 1941, Arthur Twining Hadley 1948. *Address:* 1 Chase Manhattan Plaza, New York, N.Y. 10005 (Office); 71 East 71st Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* 212-422-2660.

HAENDEL, Ida; British (b. Polish) violinist; b. 15 Dec. 1928, Chelm, Poland; ed. Warsaw Conservatoire, private tuition in Paris and London; first public appearance, Queen's Hall, London 1938; performances throughout world with many noted conductors including tour with London Philharmonic Orchestra to first Hong Kong Festival of Arts, and China and three tours of U.S.S.R.; numerous recordings. *Publication:* autobiography 1970. *Leisure interests:* swimming, horse riding, table tennis, drawing, reading. *Address:* 5065 Hampton Avenue, Montreal, Canada. *Telephone:* 489-7740.

HAENSEL, Vladimir, PH.D., D.SC.; American catalytic chemist; b. 1 Sept. 1914, Freiburg, Germany; s. of Paul Haensel and Nina Tugenhold; m. Mary Magraw 1939; two d.; ed. Northwestern Univ. and Massachusetts Inst. of Tech; Research Chemist, UOP Inc. 1937-45; Dir. Crkg Research 1944-55, Dir. Refining Research 1955-59, Dir. Process Research 1960-63, Vice-Pres. and Dir. of Research 1964-72, Vice-Pres. Science and Tech. 1972-; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng.; several awards including the American Chem. Soc. Award in Industrial and Eng. Chem. 1964, Perkin Medal for outstanding work in Applied Chem., Nat. Medal of Science 1973. *Publications:* over 50 articles and chapters in books on various scientific subjects. *Leisure interests:* tennis, gardening. *Address:* UOP World Headquarters, Ten UOP Plaza, Des Plaines, Ill. 60016 (Office); 924 Oakwood Terrace, Hinsdale, Ill. 60521, U.S.A. (Home). *Telephone:* 312-391-3131 (Office); 312-323-3273 (Home).

HAERTL, Karl, DR.IUR; Austrian government official b. 8 Jan. 1912, Aspang an Wechsel; s. of Karl Haertl; m. Dagmar Haertl-Hermann 1968; one d.; ed. Vienna Univ.; legal practice 1938-39; mil. service Second World War 1940-45; Judge, Vienna 1945-46; Asst. Man. Nat. Theatre 1949-57, Man. 1957-63; Perm. Sec. Ministry of Educ. 1963-65; Dir. Gen. for Fine Arts 1965-77. *Leisure interest:* art. *Address:* 1090 Vienna, Widerhofergrasse 7, Austria (Home). *Telephone:* 3489-554.

HAEUSGEN, Helmut; German banker and executive; b. 11 Feb. 1916, Alexandria; m. Annelene Krohn; one s. one d.; joined Dresdner Bank AG 1933, elected to Board of Man. Dirs. 1964, becoming full mem. 1967, and Chair. 1977; Chair. of Supervisory Board of Dresdner Bank AG 1978-; Board mem. of various German and international corporations and financial institutions. *Address:* Lerchersbergring 118, D-6000 Frankfurt am Main-70, Federal Republic of Germany.

HAFERKAMP, Wilhelm; German international official and politician; b. 1 July 1923, Duisburg; ed. Universität zu Köln; Head of Social Policy Dept. of Deutscher Gewerkschaftsbund (German Trade Union Fed.) 1950, mem. Exec. Cttee. and Head of Econ. Dept. 1962-67; Socialist mem. Landtag of North Rhine-Westphalia 1958-66, 1967; Commr. for Energy, Comm. of European Communities 1967-73, Vice-Pres. 1970-, Commr. for Econ. Affairs and Statistical Office 1973-77, Commr. for Foreign Affairs 1977-. *Address:* Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium. *Telephone:* Brussels 35-00-40 (Office).

HAFEZ, Maj.-Gen. Amin El; Syrian army officer and politician; b. 1911; fmr. Mil. Attaché in Argentina; took part in the revolution of March 1963; Deputy Prime Minister, Mil. Gov. of Syria and Minister of Interior March-Aug. 1963; Minister of Defence and Army Chief of Staff July-Aug. 1963; Pres. of Revolutionary Council and C.-in-C. of Armed Forces 1963-64; Prime Minister Nov. 1963-May 1964, Oct. 1964-Sept. 1965; Chair. of Presidency Council 1965-66; sentenced to death *in absentia* Aug. 1971; living in exile.

HAFSTEIN, Jóhann; Icelandic politician; b. 19 Sept. 1915; ed. Univ. of Iceland; law studies in England 1938-39; Man., later Gen. Man., Independence Party 1939-52; Gen. Man. Fisheries Bank of Iceland 1952-63; Town Councillor, Reykjavík 1946-58; mem. Althing 1946; Minister of Justice and Industry 1963-70; Prime Minister July 1970-71; Leader, Independence Party until 1973. *Address:* Sjálfstaedisflokkurinn, Laufásvegi 46, Reykjavík, Iceland.

HAFTMANN, Werner, DR. PHIL.; German art historian and writer; b. 28 April 1912, Glowno; ed. Univs. of Berlin and Göttingen; First Asst. Inst. of History of Art, Florence 1935-40; Dozent in Art History, State High School for Fine Arts, Hamburg 1951-55; Freelance writer 1956-66; Dir. Nat. Gallery, Berlin 1967-; Lessing Prize, City of Hamburg 1962; Goethe-Plakette (Hesse) 1964; Reuter-Plakette (Berlin) 1974. *Publications:* Das italienische Säulenmonument 1939, Paul Klee: Wege bildnerischen Denkens 1950, 1961, Malerei im XX. Jahrhundert (2 vols.) 1954, Emil Nolde 1958, E. W. Nay 1960, Skizzenbuch: Zur Kultur der Gegenwart 1961, Nolde-Ungemalte Bilder 1963, Wols-Aufzeichnungen 1963, Guttuso, Autobiographische Bilder 1970, Marc Chagall 1972, Jorge Castillo 1975, Marc Chagall, Gouachen, Zeichnungen, Aquarelle 1975, Hans Uhlmann 1975, Klaus Fussmann 1976, Baumeister, Gilgamesch 1976. *Address:* Gmund a. Tegernsee, Bernöckerweg 22, Federal Republic of Germany.

HAGELSTANGE, Rudolf; German author; b. 14 Jan. 1912, Nordhausen/Harz; s. of Wilhelm Hagelstange and Helene (née Struchmann); m. Karola Dittel 1939; two s. three d.; ed. Humanistisches Gymnasium, Nordhausen; journalist 1935-40; war corresp. 1940-45; professional author 1945-; mem. Munich Bavarian Acad., Darmstadt Acad. of Speech and Poetry; mem. PEN; German Critics' Prize 1952, German Schiller Stiftung 1955, Julius Campe Prize 1958; Grosses Verdienstkreuz 1959; Olympic Diploma 1964. *Publications:* Es spannt sich der Bogen (poetry) 1943, Venezianisches Credo 1945, Strom der Zeit (poetry) 1948, Meersburger Elegie 1950, Ballade vom verschütteten Leben 1951, Zwischen Stern und Staub (poetry) 1953, Tragödie des Orpheus 1955, Die Nymphe von Fiesole 1957, Die Nacht 1954, Es steht in unserer Macht 1953, How do you like America? 1957, Lied der Muschel 1958, Spielball der Götter 1959, Nacht Mariens 1959, Viel Vergnügen 1960, Huldigung 1960,

Römisches Olympia 1961, Lied der Jahre 1961, Reise nach Katmandu 1962, Farbiges Deutschland 1962, Die Puppen in der Puppe (Eine Russlandreise) 1963, Corazón (Gedichte aus Spanien) 1963, Zeit für ein Lächeln-Heitere Prosa 1966, Der schielende Löwe (U.S.A.) 1967, Der Krak in Prag (poetry) 1969, Altherrensommer 1969, Alleingang 1970, Gespräche über Bäume (poetry) 1971, Venus im Mars 1972, Gast der Elemente (poetry) 1972, Fünf Ringe (Anthology) 1972, Der General und das Kind 1974, Der Grosse Filou 1975, Reisewetter 1975, Tränen gelacht—Steckbrief eines Steinbocks. *Address:* 6122 Erbach, Am Schlehdorn, Federal Republic of Germany. *Telephone:* 06062-2128.

HAGEN, Uta Thyra; American actress; b. 12 June 1919, Göttingen, Germany; d. of Oskar F. L. Hagen and Thyra Leisner; m. 1st José V. Ferrer 1938, 2nd Herbert Berghof 1951; one d.; ed. Univ. of Wisconsin High School, Royal Acad. of Dramatic Art, London, and Univ. of Wisconsin; début as Ophelia in Hamlet, Dennis, Mass. 1937; Teacher (and Co-Founder) Herbert Berghof Studio (School of Acting) 1947. *Plays acted in include:* The Seagull, Arms and the Man, The Latitude of Love, The Happiest Days, Key Largo, Othello, The Master Builder, Angel Street, A Streetcar Named Desire, The Country Girl, Saint Joan, Tovarich, In Any Language, The Lady's not for Burning, The Deep Blue Sea, Cyprienne, A Month in the Country, The Good Woman of Setzuan, The Affairs of Anatol, The Queen and the Rebels, Who's Afraid of Virginia Woolf?, The Cherry Orchard, The Other 1972; Film: The Boys from Brazil 1978. *Publications:* Respect for Acting 1973, Love for Cooking 1976. *Leisure interests:* gardening, cooking, needlework. *Address:* Herbert Berghof Studio, 120 Bank Street, New York City, N.Y., U.S.A.

HAGER, Kurt; German politician; b. 24 July 1912, Bietigheim; ed. Oberrealschule, Stuttgart; mem. Kommunistische Partei Deutschlands (KPD) 1930-45, Sozialistische Einheitspartei Deutschlands (SED) 1946-; fmr. journalist; fought in Spanish Civil War 1937-39, Dir. of Radio Madrid; interned in U.K. in Second World War; posts in SED 1945-54; Prof. of Phil., Humboldt Universität zu Berlin 1949; cand. mem. SED Cen. Cttee. 1950-54, mem. 1954-, Sec. for Propaganda of Cen. Cttee 1955-, cand. mem. Politburo 1958-63, mem. 1963-, Sec. and Leader of Ideological Comm., Politburo 1963-; mem. Council of State 1976-; mem. Volkskammer 1958-; Vaterländischer Verdienstorden in Silver and Gold, other decorations. *Address:* Sozialistische Einheitspartei Deutschlands, 102 Berlin Am Mark-Engels-Platz 2, German Democratic Republic.

HÄGG, Gunnar, DR. PHIL.; Swedish university professor; b. 14 Dec. 1903, Stockholm; s. of Erik and Hertha Hägg (née Trägårdh); m. Gunnel Margareta Silfwerbrand 1934; four s. one d.; ed. Univs. of Stockholm, London and Jena; Lecturer, Univ. of Stockholm 1929-36; Prof. of Gen. and Inorganic Chem., Univ. of Uppsala 1936-39; mem. Royal Swedish Acad. of Science 1942, Royal Soc. of Science of Uppsala 1940, Royal Physiographical Soc. of Lund 1943, Royal Neths. Acad. of Science 1950, Royal Danish Soc. of Science 1956, Royal Swedish Acad. of Eng. Sciences 1957, Leopoldina German Acad. of Scientists 1960, Norwegian Acad. of Science 1961; Vice-Pres. Int. Union of Crystallography 1960; mem. Nobel Cttee. for Chemistry, Royal Swedish Acad. of Science 1965, Chair. 1976; Dr. h.c. (Oslo) 1976. *Publications:* Kemisk Reaktionslära 1940, Die Theoretischen Grundlagen der Analytischen Chemie 1950, Teoría de la Reacción Química 1962, Allmän och Oorganisk kemi 1963, General and Inorganic Chemistry 1969; and numerous works mainly dealing with X-ray crystallography and its applications to inorganic chemistry. *Address:* Institute of Chemistry, The University, Uppsala; Home: Thunbergsvägen 24, Uppsala, Sweden. *Telephone:* 018-139460 (Office); 018-136989 (Home).

HÄGGLÖF, Gunnar; Swedish diplomatist; b. 15 Dec. 1904; m. Anna Folchi Vici; ed. Uppsala Univ.; entered diplomatic service 1926, served Paris, London, Moscow; Minister without Portfolio 1939; led dels. to Berlin and London during 1939-45 war; Minister to Belgian and Dutch Govts. 1944, to Moscow 1946; Perm. Del. to UN 1947; Amb. to Great Britain 1948-67, to France 1967-71. *Publications:* Diplomat 1972. *Address:* Ministry of Foreign Affairs, Stockholm, Sweden.

HÄGGLÖF, Ingemar; Swedish diplomatist; b. 20 April 1912, Stockholm; s. of Richard Hägglöf and Sigrid (née Ryding); m. Baroness Ingegerd Beck-Friis; one s.; ed. Uppsala Univ.; joined Ministry of Foreign Affairs 1934; served in London 1935, Paris 1936, Berlin 1938, Stockholm 1941, Moscow 1943, Stockholm 1945-49; Counsellor Embassy, Washington 1949-51, Deputy Head, Commercial Dept. 1951-53; Del. to OEEC, Paris 1953; Council of Europe 1953; EFTA, Geneva 1960; Perm. Swedish Rep. to OEEC, Paris 1953-61; Amb. 1957-61, to OECD 1961-63; Amb. to Finland 1964-71, to France 1971-78. *Leisure interests:* horses and music. *Address:* 5-15 rue Olivier Noyer, Paris 14e, France. *Telephone:* 540-58-64.

HAGIHARA, Yusuke, DR. SC.; Japanese astronomer; b. 28 March 1897, Osaka; s. of Sutejiro Hagihara and Teru Fukuoka; m. Yuiko Fukai 1926; two s. one d.; ed. Tokyo, Cambridge, Paris, Göttingen and Harvard Univs.; Asst. Tokyo Univ. 1921, Asst. Prof. 1923, Prof. of Astronomy 1935-57; Rockefeller Fellowship 1928-29; Harvard Observatory Research Assoc. 1938; Dir. of Tokyo Astronomical Observatory 1946-57 (Visiting Prof. Chicago Univ. 1952), Emer. 1957; Prof. of Astronomy, Tohoku Univ. 1957-60; Consultant Smithsonian Astrophysical Observatory 1961-; Pres. Utsunomiya Univ. 1960-64; mem. Science Council of Japan 1949-59, Japan Acad. 1943-; F.R.A.S. 1928-; Pres. Physico-Mathematical Soc. of Japan 1942; Pres. Astronomical Soc. of Japan 1949-53; mem. Standing Cttee. of Int. Astronomical Union 1928-, Vice-Pres. 1961-68; Chair. of Comm. on Celestial Mechanics 1961-68; official mem. Int. Scientific Radio Union 1950-60; H.I.M. Decoration for Cultural Merit 1954, Watson Medal (Nat. Acad. of Sciences of U.S.A.) 1960; H.I.M. Decoration of First Rank 1968; Lecturer Yale Univ. Summer Inst. on Dynamical Astronomy 1960, 1961, 1962, 1964, 1965. *Publications:* Foundation of Celestial Mechanics I 1947, Beyond Nebulae 1949, General Astronomy 1955, Astronomy 1956, Stability in Celestial Mechanics 1957, The Stability of the Solar System (in The Solar System, vol. 3, ed. Kuiper) 1961, Theories of Equilibrium Figures of a Rotating Homogeneous Fluid Mass 1970, Celestial Mechanics Vol. I 1970, Vol. II 1972, Vol. III 1974, Vol. IV 1975, Vol. V 1976. *Leisure interests:* music, Japanese ballet. *Address:* Himonya 6-chome, 3-7, Meguro-ku, Tokyo, Japan. *Telephone:* 712-7800.

HAGMAN, (Erik Richard) Ragnar, LL.B.; Swedish banker; b. 14 Nov. 1908; ed. Uppsala Univ.; began career as lawyer; man. Dir. Negotiation Bd. of Swedish Banks 1942-48, Chair. 1954-57; Dir. Svenska Handelsbanken 1948-57; Sec. Swedish Ironworks Commercial Assen. 1957-; Man. Dir. Swedish Iron and Steel Works' Employers' Assen. 1957-71, mem. of Bd., 2nd Vice-Chair. 1971-; Chair. AB Järnbruksförnödenheter; mem. Stockholm City Council; Conservative. *Address:* Järnbruksförbundet, S. Blasieholmshamnen 4A, III 48 Stockholm C, Sweden.

HAGRAS, Dr. Kamal M.; Oman diplomatist; b. 15 Jan. 1927; m. two c.; ed. Cairo, Paris and New York Univs.; joined diplomatic service 1951, served in France, then Colombia, New York, London; also in various depts. of Foreign Office; Chief of Cabinet of Under-Sec.; Amb. to France and Switzerland, Perm. Rep. to UNESCO until 1975; Amb. and Perm. Rep. to UN 1975-77; Rockefeller Foundation Fellowship 1963-65; fmr. Chair. London Diplomatic Assen.; Oman Wissam First Class; Commdr., Légion d'honneur. *Address:* c/o Ministry of Foreign Affairs, Oman.

HAGRUP, Knut; Norwegian airline executive; b. 13 Nov. 1913, Bergen; s. of Henry Lie-Svendsen and Ebba Hagerup; m. Ester Skaugen 1943 (died 1976); two d.; ed. Commercial Coll. and Royal Norwegian Air Force Coll.; Chief Engineer, Norwegian Civil Aeronautics Bd. 1945; Chief Engineer SAS 1946, Vice-Pres. (Operations) 1951, Vice-Pres. (Eng.) 1956, Vice-Pres. (Tech. and Operations) 1960, Exec. Vice-Pres. (Tech. and Operations) 1962, Pres. 1969-75; mem. IATA Exec. Cttee., Pres. IATA 1974-75; mem. of Bd. Thai Airways Int. 1969-76, Linjeflyg AB; Chair. SAS Catering A/S, Scanair A/S -1978, Transair Sweden AB, Bd. of Comm. on Air Transport (Int. Chamber of Commerce). *Publication:* La Bataille du Transport Aérien. *Leisure interests:* golf, hunting. *Address:* Slottsvägen 58, 183 52 Täby, Sweden (Home). *Telephone:* 756-55-55 (Home).

HAGUIWARA, Toru; Japanese diplomatist; b. 25 May 1906, Tokyo; s. of Shuichi Haguiwara and Jun Hamao; m. Chieko Sato 1947; one s. two d.; ed. Tokyo Imperial Univ.; entered diplomatic service 1928; Chief of several sections of the Ministry of Foreign Affairs 1940-46; Dir. Treaties Bureau, Ministry of Foreign Affairs 1946-50; Chief of Japanese Govt. Overseas Agency, Paris 1950-52; Minister to France 1952; Envoy and Minister to Switzerland 1952, Amb. 1955-57; Amb. to Canada 1957-61, to France 1961-67; Commr.-Gen. of Japanese Govt. for Expo 70 1968-71; mem. OECD Group on Trade and Related Problems 1971-72; Pres. XVIIth and IIIrd Exraordinary Conf. Gen. UNESCO 1972, 1973; mem. Int. Civil Service Comm. UN 1974-77; Adviser to Minister of Foreign Affairs 1971-77; consultant to several private cos. 1971-. *Publications:* include two books on Diplomatic History of World War II 1949, and the Peace Treaty 1951. *Leisure interests:* literature, golf, bridge. *Address:* No. 982, Hotel New Japan, Nagata-cho 2-13-8, Chiyoda-ku, Tokyo (Office); No. 701, Shinsaka 40 Apartments, Akasaka 8-10-24, Minato-ku, Tokyo, Japan (Home). *Telephone:* 580-1387 (Office); 401-0055 (Home).

HAHN, Carl Horst, DR.RER.POL.; Austrian business executive; b. 1 July 1926, Chemnitz, Germany; m. Marisa Traina 1960; three s. one d.; Chair. of Bd., Continental Gummi-Werke AG March

1973-. *Publication:* Der Schumann-Plan im besonderen Hinblick auf die deutsch-französische Stahlindustrie. *Address:* 3001 Lüdersen, Bergstrasse 6, Federal Republic of Germany.

HAHN, Erwin Louis, PH.D.; American professor of physics; b. 9 June 1921, Sharon, Pa.; s. of Israel Hahn and Mary Weiss; m. Marian Ethel Failing 1944; one s. two d.; ed. Juniata Coll. and Univ. of Illinois; Asst., Purdue Univ. 1943-44; Research Asst., Univ. of Illinois 1950; Nat. Research Council Fellow, Stanford Univ. 1950-51, Instructor 1951-52; Research Physicist, Watson IBM Lab., New York 1952-55; Assoc. Columbia Univ. 1952-55; Assoc. Prof. Miller Inst. for Basic Research, Berkeley 1958-59, Prof. 1966-67; Univ. of Calif., Berkeley 1955-, Prof. of Physics 1961-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Guggenheim Fellow, 1961, 1970; Buckley Prize 1971, Int. Soc. of Magnetic Resonance Prize 1971; Hon. D.Sc. (Juniata Coll.) 1966, (Purdue Univ., Indiana) 1975; Alexander Humboldt Foundation Award (Fed. Repub. of Germany) 1976-77. *Publication:* Nuclear Quadrupole Resonance Spectroscopy (with T.P. Das) 1958. *Leisure interests:* violin, chamber music. *Address:* Department of Physics, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 415-642-2305.

HAHN, Thomas Marshall Jr., PH.D., LL.D.; American corporation executive; b. 12 Feb. 1926, Lexington, Ky.; s. of the late Thomas Marshall and of Mary Elizabeth Boston Hahn; m. Margaret Louise Lee 1948; two d.; ed. Univ. of Kentucky, Massachusetts Inst. of Tech.; Teaching Asst. Univ. of Kentucky 1944-45; U.S.N.R. 1945-46; Physicist, U.S. Naval Ordinance Lab. 1946-47; Research Asst., Mass. Inst. of Tech. 1947-50; Assoc. Prof., Univ. of Kentucky 1950-52, Prof., Dir. Graduate Studies in Physics and Dir. Nuclear Accelerator Labs. 1952-54; Prof. and Head of Dept. of Physics, Va. Polytechnic Inst. 1954-59; Dean of Arts and Sciences, Kansas State Univ. 1959-62; Pres. Va. Polytechnic Inst. and State Univ. 1962-75; Exec. Vice-Pres. Georgia Pacific Corpn. 1975-76, Pres. 1976-; Chair. Va. Metropolitan Study Comm. 1966-69; mem. Nat. Science Bd. 1972-76; Fellow, American Physical Soc; Hon. LL.D. (Seton Hall Univ.) 1976. *Publications:* various scientific research publications. *Leisure interests:* cattle breeding, fishing. *Address:* Georgia-Pacific Corporation, 900 South West Fifth Avenue, Portland, Oregon 97204, U.S.A. *Telephone:* 503-248-7220.

HAHNEMANN, Paul G.; German business executive; b. 31 Oct. 1912, Strasbourg; s. of Paul P. Hahnemann and Betty (née Orth); m. 1941; ed. Technische Hochschule, Karlsruhe and Univs. of Berlin and Heidelberg; fmr. ind. distributor for Opel cars, Strasbourg and Freiburg; Marketing Dir. Auto-Union 1957-61; mem. Man. Bd., eventually Deputy Chair., BMW (Bayerische Motorenwerke) 1961-71; now ind. industrial consultant; Bayerischer Verdienstorden, Grand Officer, Order of Belgian Crown, Ordine al Merito della Repubblica Italiana. *Address:* 757 Baden-Baden, Brahmstrasse 12 (Office); 8000 Munich 45, Am Blütenring 76, Federal Republic of Germany (Home). *Telephone:* (089) 98-27-83.

HAHR, Henrik A. A., M.A., F.R.S.A.; Swedish broadcasting official; b. 10 Jan. 1911, Lund; s. of Prof. August Hahr and Elisabeth Larsson; m. Britt-Mari Kindahl 1938; two s. one d.; ed. Uppsala and Stockholm Univs.; Radio Reporter Swedish Broadcasting Corpn. 1934-38; Foreign Corresp. (London, Brussels, Rome) Svenska Dagbladet 1938-42; Swedish Broadcasting Corpn., Head External Relations 1942-47, Programme planning 1947-50, Current Affairs 1950-55, Programme Dir. Sound Broadcasting 1955-56, then TV 1956-59, Co-ordinating Dir. Radio-TV, Dir. Int. Dept. and Asst. to Dir.-Gen. 1959-64; Dir. Admin. Office and Sec.-Gen. European Broadcasting Union (E.B.U.) Geneva 1964-76; mem. Swedish UNESCO Cttee. 1950-64; mem. Bd. Swedish Inst. of Journalism 1961-64; Pres. Code-of-Practice Cttee. Swedish Broadcasting Corpn. 1960-64, and other Broadcasting Cttees.; Knight Nordstjärnan Order, Légion d'honneur, Dannebrog Order, Knight Commdr. al Merito della Repubblica Italiana, and other decorations. *Publications:* Vår Radio och Andras 1945, Nordish Radio and TV 1963. *Leisure interest:* water-colour painting. *Address:* 29 Chemin des Palettes, 1212 Grand Lancy, Switzerland.

HAIDALA, Lieut.-Col. Mohamed Khouna Ould; Mauritanian army officer and politician. Chief of Staff of Mauritanian Army July 1978-April 1979; Minister of Defence April-May 1979, Prime Minister May 1979-; mem. Mil. Cttee. for Nat. Recovery July 1978-. *Address:* Office du Premier Ministre, Nouakchott, Mauritania.

HAIDAR, Mohamed Haider, LL.B.; Syrian politician; b. 1931; ed. secondary schools, Lattakia, Univ. of Damascus; Teacher, Lattakia, Hama, Damascus 1951-60; with Ministry of Agrarian Reform 1960-63; Dir. Agrarian Reform Inst., Hama 1963; Dir. Agrarian Reform, Damascus, Daraa, Al-Suaida 1964; Dir. Legal and Admin. Affairs, Ministry of Agriculture and Agrarian Reform 1965; Gov. Al-Hasakeh 1966; mem. Command, Damascus Branch of Arab Socialist Ba'ath Party 1967, Temporal Regional Command 1970, now Regional and Nat. Commands, mem. Cen. Command, Progressive Nat. Front of Syria; Deputy Prime Minister, Minister of Agriculture and Agrarian Reform until 1973; Deputy Prime Minister, Minister of Econ. Affairs 1973-76. *Address:* c/o Ministry of Economic Affairs, Damascus, Syria.

HAIDASZ, Stanley, M.D., L.PH.; Canadian physician and politician; b. 4 March 1923, Toronto; s. of Mr. and Mrs. Peter Haidasz; m. Natalie Gugala 1950; one s. three d.; ed. St. Michael's High School, Toronto, Univ. of Ottawa and Univ. of Toronto; various positions in Canadian-Polish community; Pres. Toronto District Canadian Polish Congress 1954-55; Nat. Chair. Canadian Polish Millenium Fund; fmr. M.P. Toronto-Trinity; M.P. Toronto-Parkdale 1962-; Minister of State for Multiculturalism 1972-74; Pro Merito Latvian World Fed. and other awards. *Leisure interests:* reading, travel, swimming, music, theatre. *Address:* 514 Landsdowne Avenue, Toronto 5 (Office); 77 Sir Williams Lane, Islington, Ontario, Canada (Home). *Telephone:* 536-6604 (Office).

HAIG, Gen. Alexander Meigs, Jr.; American army officer; b. 2 Dec. 1924, Phila., Pa.; s. of Alexander M. and Regina Murphy Haig; m. Patricia Fox 1950; two s. one d.; ed. U.S. Mil. Acad., Naval War Coll. and Georgetown Univ.; joined U.S. Army 1947, rising to Brig.-Gen. 1969, Maj.-Gen. 1972, Gen. 1973; Deputy Special Asst. to Sec. and Deputy Sec. of Defence 1964-65; Battalion and Brigade Commdr. 1st Infantry Div., Repub. of Viet-Nam 1966-67; Regimental Commdr. and Deputy Commdt. U.S. Mil. Acad. 1967-69; Senior Mil. Advisor to Asst. to Pres. for Nat. Security Affairs, the White House 1969-70; Deputy Asst. to Pres. for Nat. Security Affairs 1970-73; Vice-Chief of Staff, U.S. Army Jan.-July 1973; special emissary to Viet-Nam Jan. 1973; retd. from U.S. Army Aug. 1973; Asst. to Pres. and White House Chief of Staff Aug. 1973-Oct. 1974; recalled to active duty, U.S. Army Oct. 1974; C.-in-C., U.S. European Command 1974-79; Supreme Allied Commdr. Europe, NATO 1979; Hon. LL.D. (Utah and Niagara); numerous medals and awards. *Leisure interests:* tennis, golf, squash, horse-riding.

HAILEY, Arthur; Canadian author; b. 5 April 1920, Luton, Beds.; s. of George and Elsie Hailey (née Wright); m. Sheila Dunlop 1951; one s. two d. and three s. by previous marriage. *Publications:* Runway Zero Eight (with John Castle) 1958, The Final Diagnosis 1959, In High Places 1962, Hotel 1965, Airport 1968, Wheels 1971, The Moneychangers 1975, Overload 1979; collected plays: Close-Up 1960. *Films:* Zero Hour, Time Lock, The Young Doctors, Hotel, Airport, The Moneychangers, Wheels. *Leisure interests:* reading, music, fishing, swimming, wine. *Address:* Seaway Authors Ltd., 1 Place Ville Marie, Suite 1609, Montreal H3B 2B6, Canada (Office); Lyford Cay, P.O. Box N.7776, Nassau, Bahamas (Home).

HAILSHAM OF ST. MARYLEBONE, Baron (Life Peer), cr. 1970, of Herstmonceux in the County of Sussex; **Quintin McGarel Hogg,** P.C., C.H., F.R.S., D.C.L., LL.D.; British politician; b. 9 Oct. 1907, London; s. of the late Douglas McGarel Hogg, 1st Viscount Hailsham, and Elizabeth Brown; m. Mary Evelyn Martin 1944 (died 1978); two s. three d.; ed. Eton Coll. and Christ Church, Oxford; Fellow, All Souls Coll., Oxford 1931-38, 1961-; Barrister, Lincoln's Inn 1932, Bencher 1956, Treas. 1975; Q.C. 1953; M.P. 1938-50, 1963-70; mem. House of Lords 1950-63; served war 1939-45; Parl. Under-Sec. to Air Ministry 1945; First Lord of Admiralty 1956-57; Minister of Educ. 1957; Lord Pres. of Council 1957-59, 1960-64; Chair. Conservative Party 1957-59; Lord Privy Seal 1959-60; Minister for Science and Tech. 1959-64; Leader of House of Lords 1960-63; Sec. of State for Educ. and Science April-Oct. 1964; Lord Chancellor 1970-74, May 1979-; Minister responsible for dealing with unemployment in the North East 1963-64; succeeded his father as 2nd Viscount Hailsham 1950, disclaimed title 1963; Rector, Glasgow Univ. 1959-62. *Publications:* The Law of Arbitration 1935, One Year's Work 1944, The Law and Employer's Liability 1944, The Times We Live In 1944, Making Peace 1945, The Left was never right 1945, The Purpose of Parliament 1946, The Case for Conservatism 1947, The Law Relating to Monopolies, Restrictive Trade Practices and Resale Price Maintenance 1956, The Conservative Case 1959, Interdependence 1961, Science and Politics 1963, The Devil's Own Song 1968, The Door Wherein I Went 1975, Elective Dictatorship 1976, The Dilemma of Democracy: Diagnosis and Prescription 1978. *Address:* The House of Lords, London, SW1A 0PW; The Corner House, Heathview Gardens, London, S.W.15, England (Home). *Telephone:* 01-788 2256.

HAINWORTH, Henry Charles, C.M.G.; British diplomatist (retd.); b. 12 Sept. 1914, Tampico, Mexico; s. of Charles Samuel Hainworth and Emily Laycock; m. Mary Ady 1944; two d.; ed. Blundells School and Cambridge Univ. British Consular Service, Tokyo 1939; Ministry of Information, New Delhi 1942-46; service in Tokyo, London, Bucharest, Paris, Nicosia 1946-57; Head of

Atomic Energy and Disarmament Dept., Foreign Office 1958-61; Del. Sec. for Negotiating with EEC, Brussels 1961-63; Minister for Negotiating with EEC, Brussels 1961-63; Minister Counsellor and H.M. Consul-Gen., British Embassy, Vienna 1963-68; Amb. to Indonesia 1968-70; Amb. and Perm. U.K. Del. to Disarmament Conf., Geneva 1971-74. *Address:* c/o Barclays Bank Ltd., 50 Jewry Street, Winchester, Hants., England.

HAITHEM, Muhammad Ali; Yemeni politician; b. 1940, Dathina, Southern Arabia; fmr. school teacher; Minister of Interior 1967; mem. Presidential Council of S. Yemen 1969-71; Chair. Council of Ministers 1969-71; mem. Nat. Front Gen. Command. Now living in Cairo, Egypt.

HAITINK, Bernard; Netherlands conductor; b. 4 March 1929, Amsterdam; originally an orchestral violinist; Conductor Netherlands Radio Philharmonic Orchestra 1955-61; appeared regularly as Guest Conductor for Concertgebouw Orchestra, Amsterdam 1956-61, Jt. Conductor 1961-64, sole Musical Dir. 1964-; Principal Conductor London Philharmonic Orchestra 1967-79, Artistic Dir. 1970-78, tours with Concertgebouw in Europe, N. and S. America, Japan, with London Philharmonic in Europe, Japan, U.S.A.; Guest Conductor Los Angeles Philharmonic, Boston Symphony, Cleveland, Chicago Symphony, New York Philharmonic, Berlin Philharmonic, Vienna Philharmonic and other orchestras; conducted operas by Mozart and Wagner for Netherlands Opera, by Mozart, Stravinsky and Debussy for Glyndebourne Festival Opera, by Mozart for Royal Opera, Covent Garden; Musical Dir. Glyndebourne Festival Opera 1978-; records for Philips; Royal Order of Orange-Nassau (Netherlands) 1969, Medal of Honour, Bruckner Soc. of America 1970, Hon. mem. Int. Gustav Mahler Soc., Gold Medal 1971, Chevalier, Ordre des Arts et des Lettres (France) 1972, Hon. mem. R.A.M. 1973, Hon. K.B.E. 1977. *Address:* London Philharmonic Orchestra, 53 Welbeck Street, London, W1M 7HE, England.

HÁJEK, Jirí, DR., DR.SC.; Czechoslovak diplomatist and politician; b. 6 June 1913, Krhanice; ed. Charles Univ., Prague; Imprisoned 1939-45; Lecturer, Coll. of Political and Social Science, Prague 1947-48, Prof. 1948-52; Prof. of Int. Relations, Charles Univ. 1952-55; Deputy to Nat. Ass. 1945-54, Chair. Foreign Relations Cttee. 1952-54; Amb. to U.K. 1955-58; Deputy Minister of Foreign Affairs 1958-62, Perm. Rep. to UN 1962-65; Minister of Educ. and Culture 1965-67, Minister of Educ. 1967-68, Minister of Foreign Affairs April-Sept. 1968; mem. Cen. Cttee. CP of Czechoslavakia 1948-69, Ideological Comm. Cen. Cttee. CP of Czechoslovakia 1966-68; Corresp. mem. Czechoslovak Acad. of Sciences 1965-76; Dir. Inst. of Political Science, Czechoslovak Acad. of Sciences 1969; scientific worker, Inst. of State and Law, Czechoslovak Acad. of Sciences 1970-73; spokesman Charter 77 (civil rights manifesto); Order of the Repub. 1961; Klement Gottwald Order 1968. *Publications:* Dix ans après 1978.

HAKIM, George, M.A., L. EN D.; Lebanese diplomatist and politician b. 19 April 1913, Tripoli; s. of John Hakim and Victoria Antakli; m. Laura Zarbock 1951; one s. one d.; ed. American Univ., Beirut, and Univ. of St. Joseph; Adjunct Prof. of Econs., American Univ., Beirut 1943; mem. of several advisory govt. cttees, on econ. and financial questions 1942-46; appointed alt. del. of Lebanon to Econ. and Social Council of UN 1946; Chief Del. 1949; Counsellor Lebanese Legation, Washington, D.C. 1946-52; Chargé d'affaires 1948 and 1951; apptd. by Pres. of Repub. of Lebanon as Minister of Finance, of Nat. Economy and of Agriculture 1952-53; Minister of Foreign Affairs and of Economy 1953; Deputy Sec.-Gen. Ministry of Foreign Affairs March-July 1955; Minister to German Fed. Repub. 1955-58; concurrently Minister of Nat. Economy March-June 1956; represented Lebanon at numerous int. confs.; Bd. of Govs. of the Int. Bank for Reconstruction and Devt. and IMF 1947-50; Vice-Chair. Econ. and Financial Cttee. 1949; Chair. Group of Experts on economic devt. of underdeveloped countries, apptd. by Sec.-Gen. of UN Feb.-May 1951; Amb. to German Fed. Repub. 1958; Perm. Rep. to UN 1959-65; Minister of Foreign Affairs 1965-67; Vice-Pres. American Univ. of Beirut. 1968-76. *Leisure interests:* reading, travelling, swimming. *Address:* Henry Abiad Building, Rabiya, Lebanon.

HAKIM, Tawfiq al-, B.A.; Egyptian novelist and playwright; b. 9 Oct. 1898, Alexandria; ed. Muhammad 'Ali Secondary School, Cairo, Law School, The Egyptian Univ., Cairo, Collège des Lois, Sorbonne, Paris; Dir. Gen. Nat. Library 1951-56; Under-Sec. Higher Council of Arts, Letters and Social Sciences 1956-59, 1960-; Perm. Rep. of United Arab Repub. at UNESCO 1959-60; Dir. Al Ahram newspaper; mem. Cairo Arabic Language Acad. 1954; State Prize for Literature; State Prize for Merit; Republican Chain; Hon. Dr. (Egyptian Acad. of Arts). *Publications:* novels: The Soul's Return 1933, A Rural Deputy's Dairy 1937; plays: The Cavemen 1933, Shahrazad 1934, Pigmalyun 1942, Solomon the Wise 1943, Rejuvenation 1950, Journey into the Future 1957, Praksa 1960, The Sultan's Dilemma 1960, The Tree Climber 1962, Food For Every Mouth 1963, Fate of a Cockroach 1966. *Address:* c/o Al Ahram, Shalia Lal-Galaa, Cairo, Egypt.

HAKSAR, Ajit Narain, B.A., M.B.A.; Indian business executive; b. 11 Jan. 1925, Gwalior, Madhya Pradesh; s. of Iqbal Narain Haksar and Shyampati Mulla; m. Madhuri Sapru 1948; one s. one d.; ed. Allahabad and Harvard Univs.; training period with J. Walter Thompson Co., New York 1946-48; joined India Tobacco Co. Ltd. (frmly. The Imperial Tobacco Co. of India Ltd.) as Asst. Marketing 1948; on secondment to British-American Tobacco Co. Ltd., London 1948-50; Marketing Dir. Bd. of India Tobacco 1966, Deputy Chair. 1968, Chair. 1969-; Chair. Local Bd., Indian Leaf Tobacco Devt. Co. Ltd.; Chair. Bd. of Govs. Indian Inst. of Tech.; Gov. Indian Inst of Man.; Non.-Exec. Chair. Webstar Ltd.; Dir. Reserve Bank of India and Industrial Devt. Bank of India; mem. Court of Govs., Admin. Staff Coll. of India, Hyderabad, Calcutta and Doon School, Dehra Dun; non-official mem. Special Cttee. Civil Supplies, State Advisory Cttee. for Territorial Army (W. Bengal); Past Pres. Bengal Chamber of Commerce and Industry. *Leisure interest:* golf. *Address:* 37 Chowringhee, Calcutta 700016 (Office); 24B Raja Santosh Road, Calcutta 700027, India (Home). Raja Santosh Road, Calcutta 700027, India (Home). *Telephone:* 24-8141 (Office); 45-7696 (Home).

HAKSAR, Parmeshwar Narain, M.SC.; Indian government official and former diplomatist; b. 4 Sept. 1913, Gujranwala, Punjab; s. of Jagdish Narain Haksar (deceased) and Dharvaj Haksar; m. Urmila Sapru; two d.; ed. Univ. of Allahabad, Univ. Coll., London, London School of Econs., Lincoln's Inn; Jt. Sec. in charge of Admin., Ministry of External Affairs 1959-60; served as Amb. and High Commr. in various countries 1960-67; Principal Sec. to Prime Minister 1967-73; Chief Negotiator, India-Pakistan-Bangladesh 1967-73; Deputy Chair. Planning Comm. with Cabinet rank 1975-77; Chair. Nat. Council of Science and Tech., Indian Statistical Inst., Nat. Labour Inst., Nat. Science Foundation, Nat. Inst. of Public Finance and Policy; Co-Chair. Indo-Soviet Comm.; Vice-Pres. Krishna Menon Memorial Soc.; del. to Diplomatic Conf. for Revision of Red Cross Conventions 1949; del. and alt. del. to UN Gen. Ass. 1951, 1966, 1968, 1970; mem. UN Int. Civil Service Comm. 1975-; mem. Atomic Energy Comm. of India, Space Comm. UGC Standing Advisory Cttee. on Area Studies Programme, Nehru Foundation; Hon. LL.D. (Patiala and Kashmir Univs.). *Leisure interests:* photography, cooking. *Address:* 4/9 Shanti Niket an, New Delhi 110021, India.

HALABI, Mohammed Ali el-; Syrian politician; b. 1937, Damascus; ed. Teachers Training School and Damascus Univ.; Teacher 1954-62; mem. Regional Command of Baath Party, Damascus; Mayor of Damascus; mem. Arab Fed. Ass.; mem. People's Council, Speaker 1973-78; Prime Minister March 1978-; Pres. Arab Parl. Union 1974-76. *Address:* Office of the Prime Minister, Damascus, Syria.

HALABY, Najeeb E., A.B., LL.B.; American lawyer, government official and executive; b. 19 Nov. 1915, Dallas, Tex.; s. of Najeeb E. and Laura Wilkins Halaby; m. Doris Carlquist 1946; one s. two d.; ed. Stanford Univ., Michigan Law School and Yale Univ. Law School; served as test pilot, U.S. Navy, Second World War; admitted to California Bar 1940, law practice Los Angeles 1940-42, admitted to Dist. of Columbia Bar 1948; Foreign Affairs Adviser to Sec. of Defense 1948-53, Deputy Asst. Sec. of Defense 1952-54; with L. S. Rockefeller and Bros. 1953-56; Vice-Pres. Servomechanisms Inc. 1956-58, Exec. Vice-Pres. and Dir. 1959-61; Sec.-Treas. The Aerospace Corpn. 1959-61; Pres. American Tech. Corpn.; Admin., Fed. Aviation Agency 1961-65; Senior Vice-Pres. and Dir. Pan American World Airways 1965-68, Pres. 1968-72, Chief Exec. Officer 1969-72; Pres. Halaby Int. Co. 1973-; Vice-Chair. and Dir. World Banking Co. (Luxembourg); Dir. Bank America Corpn., Chrysler Corpn., Atkins & Merrill Corpn., Menlo Financial Corpn.; admitted to New York Bar 1973, present practice in New York; Trustee, Stanford Univ., Aspen Inst. of Humanistic Studies, Asia Soc., American Univ. of Beirut, Eisenhower Fellowships, Int. Exec. Service Corps, UN Assen.; Vice-Chair. Business Council for Int. Understanding; Democrat. *Leisure interests:* golf, tennis, flying, skiing. *Address:* 1120 Fifth Avenue, New York, N.Y. 10028, U.S.A.

HALBRITTER, Walter; German economist and politician; b. 17 Nov. 1928, Hoym; m.; three c.; Joined Sozialistische Einheitspartei Deutschlands (SED) 1946; Section leader Dept. Planning and Finance of Cen. Cttee. 1954-61; Deputy Minister of Finance 1961-63; Deputy Chair. of State Planning Comm. 1963-65, Chair. Cttee. on Labour and Wages 1963-65; Head Bureau of Prices 1965-; mem.

Cen. Cttee. 1967-; cand. mem. Politburo 1967-73; mem. Volkskammer 1967-; Order "Banner der Arbeit". *Address:* 102 Berlin, Am Marx-Engels-Platz 2, German Democratic Republic.

HALE, John Rigby, M.A., F.B.A., F.S.A., F.R.HIST.S.; British historian; b. 17 Sept. 1923, Ashford, Kent; s. of Dr. E. R. S. Hale and Hilda Birks; m. 1st Rosalind Williams 1953, one s. two d.; m. 2nd Sheila Haynes 1965, one s.; ed. Jesus Coll., Oxford, Johns Hopkins and Harvard Univs.; Fellow and Tutor in Modern History, Jesus Coll., Oxford 1949-64; Visiting Prof. Cornell Univ. 1959; Prof. of History, Univ. of Warwick 1964-69; Prof. of Italian, Univ. Coll., London 1970-; Visiting Prof. Univ. of Calif., Berkeley; Chair. British Soc. for Renaissance Studies 1973-78, Chair. Trustees of the Nat. Gallery, London 1975-; Socio Straniero, Accademia Arcadia (Rome) 1972. *Publications:* England and the Italian Renaissance 1954, The Italian Journal of Samuel Rogers 1956, Machiavelli and Renaissance Italy 1961, The Literary Works of Machiavelli 1961, The Evolution of British Historiography 1964, Ed. Certain Discourses Military by Sir John Smyth 1964, Renaissance Europe 1480-1520 1971, Ed. Renaissance Venice 1973, Italian Renaissance Painting 1977, Florence and the Medici: the Pattern of Control 1977, Renaissance Fortificaiton: Art or Engineering? 1977. *Leisure interest:* Venice. *Address:* Department of Italian, University College, Gower Street, London, W.C.1 (Office); 26 Montpelier Row, Twickenham, Middlesex, England (Home). *Telephone:* 01-387 7050 (Office); 892-9636 (Home).

HALEFOĞLU, Vahit M., K.C.V.O., M.A.; Turkish diplomatist; b. 19 Nov. 1919, Antakya; s. of Mesrur and Samiye Halefoğlu; m. Zehra Bereket 1951; one s. one d.; ed. Antakya Coll. and Univ. of Ankara; Turkish Foreign Service 1943-, served Vienna, Moscow, Ministry of Foreign Affairs, London 1946-59; Dir.-Gen., First Political Dept., Ministry of Foreign Affairs 1959-62; Amb. to Lebanon 1962-65, concurrently accred. to Kuwait 1964-65, Amb. to U.S.S.R. 1965-66, to Netherlands 1966-70; Deputy Sec.-Gen. of Political Affiars, Ministry of Foreign Affairs 1970-72; Amb. to Fed. Repub. of Germany 1972-; Lebanese, Greek, Italian, German, Spanish, Finnish and British decorations. *Leisure interests:* literature, music, walking, swimming. *Address:* Turkish Embassy, 53 Bonn-Bad Godesberg, Utestrasse 47, Federal Republic of Germany.

HALEY, John C., B.A., M.S.; American banker; b. 24 July 1929, Akron, Ohio; s. of Arthur Reed Haley and Kathryn Moore; m. Rheba Hopkins 1951; two s. two d.; ed. Miami and Columbia Univs.; Asst. Treas., Chase Manhattan Bank N.A. 1959, Second Vice-Pres. 1962, Vice-Pres. 1964, Sr. Vice-Pres. 1971; Chief Exec. Orion Banking Group 1970-73; Exec. Vice-Pres. Corporate Banking Dept., Chase Manhattan Bank N.A. 1973-, mem. Man. Cttee. responsible for Corporate and Int. Banking Depts. 1974-; Dir. Marathon Oil Co. 1975-, Armco Steel Corpn. 1975-. *Address:* Chase Manhattan Corpn. Banking Service, 1 Chase Manhattan Plaza, New York, N.Y. 10015 (Office); 146 Lambert Road, New Canaan, Conn. 06840, U.S.A. (Home). *Telephone:* 203 966-5904 (Home).

HALEY, Sir William John, K.C.M.G., LL.D., F.R.S.L.; British journalist and administrator; b. 24 May 1901, Jersey, Channel Islands; s. of Frank Haley and Marie Sangan; m. Susan Gibbons 1921; two s. two d.; ed. Victoria Coll., Jersey; Jt. Man. Dir. Manchester Guardian and Evening News Ltd. 1939-43; Dir. Reuters and Press Assen. 1939-43; Editor-in-Chief BBC 1943-44; Dir.-Gen. 1944-52; Editor The Times 1952-66; Chair. Times Newspapers Ltd. 1967; Editor-in-Chief Encyclopaedia Britannica 1968-69; Chair. Barclay-Trust, Channel Islands 1970-77; Commr. of Appeal for Income Tax, Jersey; Chevalier, Légion d'honneur; Grand Officer, Order of Orange-Nassau. *Leisure interest:* reading. *Address:* Beau Site, Gorey Hill, Jersey, Channel Islands.

HALKIN, Shimon, M.A., D.H.L.; Israeli author and educationist; b. 30 Oct. 1899, Dovsk, Russia; s. of Hillel and Hannah Halkin; m. Minnie Levine 1933; one s. one d.; New York City Coll., Chicago, New York and Columbia Univs.; Instructor in Hebrew and Hebrew Literature, Hebrew Union Coll. School for Teachers, New York 1924-32; Teacher, Geulah High School, Tel-Aviv 1932-39; Lecturer in Bible, Jewish Sociology and Modern Hebrew Literature, Chicago Coll. of Jewish Studies 1940-43; Prof. of Hebrew Literature, Jewish Inst. of Religion, New York 1943-49; Prof. of Hebrew Literature, Hebrew Univ. of Jerusalem 1949-70; Visiting Prof. Univ. of Calif. 1954-55, Jewish Theological Seminary, New York 1965-66; Prof. Emer. Hebrew Univ. of Jerusalem 1969; mem. Acad. of Hebrew Language; Pres. Israel PEN Club; Tchernichovsky Prize for translation of Whitman 1953, Bialik Prize for Literature 1968, State of Israel Prize for Literature 1975. *Publications include:* An Ethical Philosophy of Life 1928, Hebrew Literature in Palestine 1942, Modern Hebrew Literature: Trends and Values 1951, La littérature hébraïque moderne 1957, Literatura Hebrea Moderna 1968; In Hebrew: Yehiel Ha-Hagri (novel) 1928, Arai Va-Keva (criticism) 1942, Ad-Mashber (novel) 1945, Yehudim ve Yahadut Be-America 1946, Walt Whitman 1954, Mavo La Sipporet Ha Ivrit (criticism) 1953, Collected Literary Essays and Studies (3 vols.) 1971, Adrift, Collected Short Stories 1973; Poems; Al Ha-Iy (collected poems) 1943, Ma'avar Yabok (collected poems) 1965; Giorgos Seferis, Selected Poems 1973; numerous translations from Greek, German, French and Italian. *Leisure interests:* music, reading. *Address:* 5 Redak Street, Jerusalem, Israel. *Telephone:* Jerusalem 3-3069.

HALL, Sir Arnold Alexander, Kt., M.A., F.R.S., D.ENG., D.SC., C.ENG.; British aviation and electrical engineer and administrator; b. 23 April 1915, Liverpool; s. of Robert Alexander Hall; m. Moira Constance Dione Sykes 1946; three d.; ed. Alsop High School, Liverpool and Clare Coll., Cambridge; Research Fellow in Aeronautics of Co. of Armourers and Braziers 1936-38; Royal Aircraft Establishment, Farnborough 1938-45; Zaharoff Prof. of Aviation, Univ. of London 1945-51; Dir. Royal Aircraft Establishment, Farnborough 1951-55; Dir. Hawker Siddeley Group Ltd. 1955-, Lloyds Bank Ltd. 1966-, Lloyds Bank U.K. Man. Ltd.; Man. Dir. Bristol Siddeley Engines Ltd. 1958-63; Vice-Chair. and Man. Dir. Hawker Siddeley Group Ltd. 1963-67, Chair. and Man. Dir. 1967-; Pro-Chancellor, Univ. of Warwick 1964-70; mem. Advisory Council on Tech. (Ministry of Tech.) 1964, Electricity Supply Research Council 1963-71; Pres. British Electrical and Allied Mfrs. Assen. March 1967-68; Dir. Phoenix Assurance Co. Ltd. 1969-, Imperial Chemical Industries Ltd. 1970-, Onan Corpn. 1976-; Chair. Industrial Policy Group 1971-74; Vice-Pres. Soc. British Aerospace Cos. Ltd. 1971-72, Pres. 1972-73; Fellow, Imperial Coll. of Science and Tech., Hon. Fellow Clare Coll., Cambridge; Hon. F.R.Ae.S., Hon. F.A.I.A.A., Hon. A.C.G.I., Hon. F.I.Mech.E., Hon. F.I.E.E., Hon. D.Tech. Foreign Assoc. of U.S. Nat. Acad. of Eng., Founder Fellow of Eng. Council of Eng. Insts. *Leisure interest:* sailing. *Address:* Hawker Siddeley Group Ltd., 18 St. James's Square, London, S.W.1, England.

HALL, Colin Arthur, B.A., LL.B.; South African business executive; b. 16 Nov. 1938, Pretoria; m.; one s.; ed. Univs. of Pretoria and S.A.; official learner on gold mines 1955; Articled Clerk, Pretoria law firm 1956-61; joined S.A. Breweries as Man. Trainee 1961, and became successively Acting Estates Man., Isando Offices, Asst. to the Property Man., Estate Man., Isando, Man. SABRE Man. Services (Pty.) Ltd., and Gen. Man. Beer Div., Natal; Gen. Man. Beer Div. 1969-73; Group Gen. Man. S.A. Breweries 1973-. *Leisure interests:* squash, golf, gardening. *Address:* The South African Breweries Ltd., P.O. Box 1099, 2 Jan Smuts Avenue, Johannesburg, South Africa.

HALL, Floyd D., B.S.; American airline executive; b. 4 April 1916, Lamar, Colo.; s. of Weldon H. Hall and Hattie Brown; m. 1st Mary Feild 1939, two d.; m. 2nd Kimathea Rand Griffis 1973; ed. Univs. of Colorado, Michigan and California (L.A.); Gen. Man. U.S. Operations, Trans-World Airlines Inc. 1957-58, Gen. Man. System Flight Operations 1958-59, Vice-Pres. Flight Operations 1959, Vice-Pres. and Gen. Transportation Man. 1959-61, Sr. Vice-Pres. and System Gen. Man. 1961-63; Pres. and Chief Exec. Officer, Dir. Eastern Air Lines Inc. Dec. 1963-67, Chair. and Chief Exec. Officer 1968-, Chair. of Bd. 1975-; Chair. Exec. Cttee. Lippincott & Margulies 1977-; Dir. numerous cos. *Address:* Eastern Air Lines Inc., 10 Rockefeller Plaza, New York, N.Y. 10020 and Miami International Airport, Miami, Fla. 33148 (Offices); 35 Sutton Place, New York, N.Y. 10022, U.S.A. (Home).

HALL, John Goodale; American mining executive; b. 17 Jan. 1917, Omaha, Neb.; s. of the late Arthur E. and Cora Price Hall; m. Dorothy Graham Hall 1940; one s.; ed. School of Mines, Univ. of Utah; with United States Smelting Refining & Mining Co., Utah 1936-46; Gen. Supt., Chief Consolidated Mininng Co., Eureka, Utah 1946-52; Asst. Plant Man., later Plant Man., Nat. Lead Co., Tahawus, N.Y. 1952-65; Asst. to Vice-Pres., New Mines Dept., Anaconda Co., New York 1965, Asst. Vice-Pres., Mining 1966, Vice-Pres. 1967, Pres. 1969-71, Vice-Chair. 1971; Exec. Vice-Pres. Freeport Minerals Co., New York 1971-; Dir. numerous cos.; mem. American Inst. of Mining, Metallurgical and Petroleum Engineers, Mining and Metallurgical Soc. of America (Vice-Pres. 1971), Mining Club, New York American Man. Assen. *Address:* 161 East 42nd Street, New York, N.Y. 10017 (Office); 14 Bonnie Heights Road, Manhasset, N.Y. 11030, U.S.A. (Home). *Telephone:* 516-627-8648.

HALL, Sir Noel, M.A., A.M.; British economist and fmr. college principal; b. 23 Dec. 1902, Cramlington; s. of Cecil Gallopine Hall and Constance Gertrude Upcher; m. 1st Edith Evelyn Pearl Haward 1927; m. 2nd Elinor Claire Marks 1946; one s. one d.; ed. Bromsgrove School, Brasenose Coll., Oxford, Princeton Univ.; Commonwealth Fund Fellow 1925-27; Lecturer in Political Economy and Civil Service Tutor, Univ. of London, Univ. Coll 1927-29, Sr. Lecturer

1929; Prof. of Political Economy 1935-38; Sec. Fellowship Advisory Cttee. Rockefeller Foundation for Social Sciences in G.B. and Ireland 1930-36; Dir. Nat. Inst. of Econs. and Social Research 1938-43; Jt. Dir. Ministry of Econ. Warfare 1940-41; Minister attached to Embassy, Washington D.C. 1941-43; West African Devt. Adviser 1943-45; Principal Admin. Staff Coll., Greenlands, Henley-on-Thames 1946-61; Principal Brasenose Coll. Oxford 1961-73; Hon. Fellow Brasenose Coll., Oxford; New York Univ. Medal 1958; Hon. LL.D. (Lancaster) 1964. *Publications:* The Economist in the Witness Box (with Stephen King-Hall) 1933, The Exchange Equalisation Account 1935, The Making of Executives, The Modern Challenge 1958. *Leisure interests:* golf, bridge. *Address:* Homer End, Ipsden, Oxon., England. *Telephone:* Checkendon 680294.

HALL, Sir Peter Reginald Frederick, Kt., C.B.E., M.A.; British theatre, opera and film director; b. 22 Nov. 1930, Bury St. Edmunds, Suffolk; s. of Reginald and Grace Hall; m. 1st Leslie Caron 1956 (dissolved 1965), one s. one d.; m. 2nd Jacqueline Taylor 1965, one s. one d.; ed. Perse School and St. Catharine's Coll., Cambridge; Produced and acted in over 20 plays at Cambridge; first professional production Windsor 1953; produced in repertory at Windsor, Worthing and Oxford Playhouse; two Shakespearean productions for Arts Council; Artistic Dir. Elizabethan Theatre Co. 1953; Asst. Dir. London Arts Theatre 1954, Dir. 1955-56; formed own producing co., Int. Playwright's Theatre 1957; Man. Dir. Royal Shakespeare Theatre, Stratford-on-Avon and Aldwych Theatre, London 1960-68; mem. Arts Council 1969-72; Co-Dir., Nat. Theatre with Lord Olivier (*q.v.*) April-Nov. 1973, Dir. Nov. 1973-; Assoc. Prof. of Drama, Warwick Univ. 1966-; Chevalier, Ordre des Arts et Lettres 1965; London Theatre Critics' Award for Best Dir. for The Wars of the Roses 1963, The Homecoming and Hamlet 1965; Antoinette Perry Award for Best Dir. for The Homecoming 1966, Hamburg Univ. Shakespeare Prize 1967; Dr. h.c. (York) 1966, (Reading) 1973, (Liverpool) 1974. *Productions:* Blood Wedding, Immoralist, The Lesson, South, Mourning Becomes Electra, Waiting for Godot, The Burnt Flowerbed, Waltz of the Toreadors, Camino Real, Gigi, Wrong Side of the Park, Love's Labours Lost, Cymbeline, Twelfth Night, A Midsummer Night's Dream, Coriolanus, Two Gentlemen of Verona, Troilus and Cressida, Ondine, Romeo and Juliet, Becket, The Collection, Cat on a Hot Tin Roof, The Rope Dancers (on Broadway), The Moon and Sixpence (opera), Henry VI (parts 1, 2 and 3), Richard III, Richard II, Henry IV (parts 1 and 2), Henry V, Eh?, The Homecoming, Moses and Aaron (opera, Covent Garden), Hamlet, The Government Inspector, The Magic Flute (opera), Staircase, Work is a Four Letter Word (film), Macbeth, Midsummer Night's Dream (film), Three into Two Won't Go (film), A Delicate Balance, Dutch Uncle, Landscape and Silence, Perfect Friday (film), The Battle of Shrivings, La Calisto (opera, Glyndebourne Festival) 1970, The Knot Garden (opera, Glyndebourne Festival) 1970, Eugene Onegin (opera, Glyndebourne Festival) 1971, Old Times 1971, Tristan and Isolde (opera) 1971, All Over 1972, Il Ritorno di Ulysses (opera, Glyndebourne Festival) 1972, Alte Zeiten (Burgtheater, Vienna) 1972, Via Galactica (musical, Broadway) 1972, The Homecoming (film) 1973, Marriage of Figaro (Glyndebourne) 1973, The Tempest 1974, Landscape (film) 1974, Akenfield (film) 1974, No Man's Land 1975, Happy Days 1975, John Gabriel Borkman 1975, Judgement 1975, Hamlet 1975, Tamburlaine The Great 1976, Volpone 1977, Bedroom Farce 1977, The Country Wife 1977, The Madras House 1977, The Cherry Orchard 1978, Macbeth 1978 (Nat. Theatre); acted in The Pedestrian (film) 1973. *Leisure interest:* music. *Address:* The Wall House, Mongewell Park, Wallingford, Berks., England.

HALL, (Raymond) Steele; Australian politician; b. 30 Nov. 1928, Balaklava; s. of Sydney and Stella Hall; m. Ann W. Fletcher 1956; one s. three d.; ed. Owen Public School and Balaklava High School; mem. South Australia House of Assembly 1959-, Opposition Whip 1965, Leader Opposition 1966, Premier and Minister of Industrial Devt. 1968-70; Leader Opposition 1970-74. *Address:* 377 Seaview Road, Henley Beach, South Australia 5022, Australia (Home).

HALL, Robert King, PH.D.; American education consultant; b. 13 March 1912, Kewanee, Ill.; s. of Dr. Henry Nelson Hall and Nellie Jean (née Hyer); m. Margaret Wheeler 1938; one s. two d.; ed. Lake Forest Univ., Harvard, Chicago, Columbia, Michigan and Buenos Aires Univs.; Master in Mathematics, Cranbrook School, Mich. 1936-40; Asst. Dir. of English Language Studies Comm., Harvard 1941-43; U.S. Navy Service 1943-46, rank of Lieut.-Commdr., U.S.N.R.; Assoc. Prof., Columbia Univ. Teachers' Coll. 1947-50, Prof. 1950-55; Asst. Dir. of Training, Arabian American Oil Co. (ARAMCO) 1955-57, Dir. of Training 1957-60; own int. consultancy in Switzerland 1961-64; Sr. Adviser, Univ. of Petroleum and Minerals, Dhahran, Saudi Arabia 1964-; fmr. Visiting Prof., Univ. of Tucumán, Argentina, Univ. of Brazil, American Univ. of Beirut, Oxford, London and Princeton Univs. 1948-55; Vice-Pres. and Treas. CPM Foundation 1977-; many consultative posts; fellowships at Lake Forest Univ. 1929-33, Harvard 1934-35, Mich. Univ. (to Brazil) 1940, in Argentina 1939, Brazil 1949; Guggenheim Fellow, Japan 1946-47, 1947-48, France 1953-54; Hon. Lecturer Columbia Univ. Teachers' Coll. 1955, 1956, 1957; Hon. LL.D. (Lake Forest Univ.) 1951, Hon. C.H. (Nat. Univ. of San Marcos, Peru). *Publications:* Federal Control of Education in the ABC Republics 1942, The Teaching of English 1942, A Basic English for South America 1943, Ingles Básico para Brasil 1943, Education for a New Japan 1949, Shūshin: the Ethics of a Defeated Nation 1949, Kokutai no Hongi (with J. O. Gauntlett) 1949, Educación en Crisis 1950, Problemas da Educação Rural 1950, Report on World Service Policies and Practices 1962, A strategy for the Inner City 1963; numerous monographs, articles, edited works. *Leisure interests:* languages, travel, photography. *Address:* University of Petroleum and Minerals, UPM Box 58, Dhahran, Saudi Arabia. *Telephone:* 43000.

HALL THEMIDO, João Manuel, L. EN D.; Portugese diplomat; b. Jan. 1924, Coimbra. s. of António Armando Themido and Maria dos Anjos Hall Themido; m. Lydia Pessoa de Freitas 1954; ed. Coimbra Univ., joined Foreign Service 1947; Counsellor, London 1959-61; Dir.-Gen. Political Branch 1961-68; Amb. to Italy 1968-71; Amb. to U.S.A. 1971-; numerous decorations from Portugal, Brazil, Spain, Italy, Malta and Germany. *Publication:* Portugal e o Anticonialismo 1959. *Address:* Embassy of Portugal, 2125 Kalorama Road, Washington, D.C. 20008, U.S.A. (Office); Av. República 28-2-A, Lisbon, Portugal (Home). *Telephone:* 265-1643 (Office).

HALLGRÍMSSON, Geir; Icelandic politician; b. 16 Dec. 1925, Reykjavík; s. of Áslaug Geirsdóttir Zöega and Hallgrímur Benediktsson; m. Erna Finnsdóttir 1948; two s. two d.; ed. Univ. of Iceland and Harvard Law School; Pres. Nat. Union of Icelandic Students 1946-47; law practice, Dir. of H. Benediktsson 1951-59; mem. Reykjavík City Council 1954-74; Mayor of Reykjavík 1959-72; alt. mem. Parl. (Althing) 1959-70, mem. 1970-; mem. Cen. Cttee. Independence Party 1965-, Vice-Chair. Independence Party 1971, Chair. 1973-; Prime Minister 1974-78; Grand Cross, Order of the Falcon (Iceland), Grand Cross, Order of the White Rose (Finland), Grand Cross, Order of the Polar Star (Sweden), Commdr., Order of St. Olav (Norway), Commdr. 1st Class, Order of the Lion (Finland), Grand Officier, Ordre du Mérite (Luxembourg), Commdr., Order of Dannebrog (Denmark). *Address:* Dyngjuvegi 6, Reykjavík, Iceland (Home). *Telephone:* 25000 (Office); 33351 (Home).

HALLOWES, Odette Marie Céline, G.C., M.B.E.; British (b. French) wartime agent; b. 28 April 1912; ed. Convent of Ste. Thérèse, Amiens, and privately; worked as British agent with Special Forces in France 1942-43 when captured by the Gestapo; sentenced to death 1943; endured imprisonment and torture until 1945 when she left Ravensbruck Concentration Camp; Vice-Pres. Mil. Medallists' League; mem. Royal Soc. of St. George; mem. Cttee. Victoria Cross and George Cross Assen.; Pres. 282 (East Ham) Squadron, Air Training Corps; Légion d'honneur 1950; Vice-Pres. Women's Transport Services (F.A.N.Y.); mem. Royal Soc. of St. George. *Address:* West Mount, West Road, St. George's Hill, Weybridge, Surrey, England.

HALLPIKE, Charles Skinner, C.B.E., F.R.S., F.R.C.P., F.R.C.S.; British aural physician; b. 19 July 1900, Murree, India; s. of Frank Robert Hallpike and Rosamond Helen Skinner; m. Barbara Lee Anderson 1935; two s. one d. (deceased); ed. St. Paul's School, London, and Guy's Hosp., London; Duveen Travelling Fellow, Berlin and Hamburg; Rockefeller Travelling Fellow, Baltimore and Montreal; Foulerton Research Fellow, Royal Soc. 1934; mem. Scientific Staff, Medical Research Council (M.R.C.) 1940; Aural Physician and Dir. of Otological Research Unit M.R.C., Nat. Hosp., Queen Square, London 1944-65, Hon. Aural Physician 1965-; Dir. of Research Ferens Inst. of Otology, Middlesex Hosp., London 1965-68; retd. 1968; honours include Barany Medal, Univ. of Uppsala 1958, Guyot Medal, Univ. of Groningen 1959, Hughlings Jackson Medal, Royal Soc. of Medicine, London 1967. *Publications:* Papers on clinical otology and otoneurology and on anatomy, physiology and pathology of the ear in Proceedings of Royal Society, etc. *Leisure interests:* gardening and music. *Address:* Fern Lodge, 44 Ashurst Road, West Moors, Wimborne, Dorset, BH22 0LS, England. *Telephone:* Ferndown 4418.

HALLSTEIN, Walter, DR.IUR.; German international politician; b. 17 Nov. 1901, Mainz; ed. Univs. of Bonn, Munich and Berlin; Asst. Faculty of Law, Berlin Univ. 1925; with Inst. of Foreign and Private Int. Law, Berlin 1927; Asst. Prof. of Law, Berlin Univ. 1929;

Prof. of Rostock Univ. 1930-41; Prof. Univ. of Frankfurt 1941-44, Rector 1946-48; Visiting Prof. Georgetown Univ., Washington 1948-49; Chair. German Comm. UNESCO 1949-50; led German del. to Schuman Plan Conf. 1950; Sec. of State, Foreign Office 1951-58; Pres. Comm. of the European Econ. Community (EEC) 1958-67; Pres. European Movement 1968-74; mem. Bundestag 1969-72; Dr. h.c. (Georgetown Univ., Washington); Hon. Doctor of Law (Padua, Tufts, Colby Coll. Maine, Adelphi Univ. New York, Harvard, Nebraska, Columbia Univ., Johns Hopkins Univ., Liège, Bradford, Sussex, Nancy, Louvain, Oviedo, Hamburg and Tübingen); Charlemagne Prize 1961, Robert Schuman Prize 1969; Grand Cross of Merit of the Knights of Jerusalem and Vatican, Italian, Greek, Argentine, Brazilian, Icelandic, Thai, Iranian, Austrian, Peruvian, Mexican, Swedish, Chilean, Belgian, Liberian, Bolivian, Luxembourg, German, Cuban, Venezuelan, Togolese, Niger and other African decorations. *Publications:* Die Aktienrechte der Gegenwart 1931, Die Berichtigung des Gesellschaftskapitals 1942, Wiederherstellung des Privatrechts 1946, Wissenschaft und Politik 1948, United Europe: Challenge and Opportunity 1962, Der unvollendete Bundesstaat 1969, Europe in the Making 1972. *Leisure interests:* art, travelling. *Address:* 5439 Rennerod, Oberwesterwaldkreis, Federal Republic of Germany (Home).

HALPERIN, Tulio, D.PHIL.; Argentine historian; b. 27 Oct. 1926; ed. Univ. de Buenos Aires, Ecole Pratique des Hautes Etudes, Paris; Prof., Univ. Nac. del Litoral (Rosario, Argentina) 1955-61; Prof. Univ. de Buenos Aires 1959-66, Univ. of Oxford 1970-71, Univ. of Calif. (Berkeley) 1971-; Lecturer, History Dept. Harvard Univ. 1967-. *Publications:* El Pensamiento de Echeverría 1951, Un Conflicto Nacional: Moriscos y Cristianos Viejos en Valencia 1955, El Río de la Plata al Comenzar el Siglo XIX 1960, Tradición Política Española e Ideología Revolucionaria de Mayo 1961, Historia de la Universidad de Buenos Aires 1962, Argentina en el Callejón 1964, Historia contemporánea de América Latina 1969, Hispanoamérica después de la Independencia 1972 (in English The Aftermath of Revolution in Latin America 1973), Revolución y guerra 1972 (in English Politics, Economics and Society in Argentina in the Revolutionary Period 1975). *Address:* History Department, University of California, Berkeley, Calif. 94720, U.S.A.

HALSTEAD, Eric Henry, E.D., M.A., B.COM., F.C.A.(N.Z.), F.C.I.S.; New Zealand diplomatist, politician and company director, chartered accountant; b. 26 May 1912, Auckland; s. of Harry B. Halstead and Alma Emma Newman; m. Millicent Joan Stewart 1940; three s. one d.; ed. Auckland Grammar School, Auckland Univ. and Teachers' Training Coll.; Maj. N.Z.E.F., mentioned in despatches 1939-45; head of Commercial and Accountancy Dept., Seddon Memorial Tech. Coll. 1945-49; M.P. (mem. of National Party) 1949-57; Minister of Social Security and Minister-in-Charge of Tourist and Health Resorts 1954-56; Minister-Asst. to the Prime Minister 1954-57, concurrently Minister of Industries and Commerce and of Customs 1956-57; Partner Mabee, Halstead and Co.; Pres. Auckland Savings Bank; Dir. Air New Zealand Ltd.; Vice-Pres. N.Z. Inst. of Foreign Affairs 1970-; Amb. to Thailand and Laos 1970-73, to Italy, also accred. to Egypt, Iraq, Saudi Arabia (1977-) and Yugoslavia, and High Commr. to Malta 1976-; Deputy Chair. Asian Inst. of Tech. 1972-74; business consultant and co. dir. 1974; mem. Council Univ. of Auckland 1961-70, N.Z. Medical Educ. Trust 1974-76. *Publications:* textbooks on accounting and commercial practice; many published articles on economic, political and foreign affairs. *Leisure interests:* tennis, golf, swimming, reading, writing. *Address:* New Zealand Embassy, Via Zara 28, Rome (Office); 157 Via della Mendola, Rome, Italy (Home). *Telephone:* 8448659 (Chancery), 3284209 (Home).

HALSTEAD, Ronald, C.B.E., M.A., B.SC., F.R.I.C., F.B.I.M.; British food and drug company executive; b. 17 May 1927, Lancaster; s. of Richard and Bessie Harrison Halstead; m. Yvonne Cecile de Monchaux 1968 (deceased); two s.; ed. Queens' Coll., Cambridge; Research Chemist H.P. Bulmer & Co. 1948-53; Mfg. Man. Macleans Ltd. 1954-55; Factory Man. Beecham Products Inc. (U.S.A.) 1955-60; Asst. Man. Dir. Beecham Research Lab. Ltd. 1960-62, Pres. Beecham Research Labs., Inc. (U.S.A.) 1962-64; Vice-Pres. Marketing, Beecham Products, Inc. (U.S.A.) 1962-64; Chair. Food and Drink Div. Beecham Group 1964-67; Chair. Beecham Products 1967-; Man. Dir. (consumer products) Beecham Group 1973-; Vice-Chair. Proprietary Assen. of G.B. 1968-77; Gov. Ashridge Man. Coll. 1970-, Vice-Chair. 1977-; Pres. Inc. Soc. of British Advertisers 1971-73; Chair. British Nutrition Foundation 1970-73; Vice-Chair. Advertising Assen. 1973-; Vice-Chair. Food & Drink Industries Council 1973-76; Pres. Food Mfrs. Fed. 1974-76; Fellow, Inst. of Marketing Oct. 1975-; mem. Council, Food Mfrs Fed. Inc. 1966-, British Nutrition Foundation 1967, Chair. 1970-73; mem. CBI 1970-, British Inst. of Management 1972-77, Cambridge Univ. Appointments Bd. 1969-73, Agric. Research Council 1978; Dir. The Otis Elevator Co. Ltd. 1978-; Dir. Nat. Coll. of Food Tech. 1977-78, Chair. of Bd. 1978-; Hon. Vice-Pres. Proprietary Assen. of U.K. 1977-. *Leisure interests:* sailing, squash racquets, skiing. *Address:* Beecham Group Ltd., Beecham House, Great West Road, Brentford, Middx. (Office); 37 Edwardes Square, London, W8 6HH, England (Home). *Telephone:* 01-560 5151 (Office); 01-603 9010 (Home).

HALUSA, Arno; Austrian diplomatist; b. 13 Aug. 1911, Lans, Tyrol; m. Constance Monro 1946; one s. one d.; ed. Ecole Libre des Sciences Politiques, Paris, and Univ. of Vienna; Foreign Service 1933-, served in Europe, North and South America and South East Asia 1933-54; Minister to Thailand, Indonesia, Philippines and Cambodia 1954-58; Amb. to India and Minister to Ceylon and Nepal 1958-62; Dir.-Gen. Foreign Office, Vienna 1962-64; Head of Austrian Perm. Del. to Org. for Econ. Co-operation and Devt. (OECD) 1964-68; Deputy Sec.-Gen. Ministry of Foreign Affairs 1968-72; Amb. to U.S.A. 1972-76; Sec.-Gen. Austrian Fed. of Industrialists 1977-. *Address:* Schwarzenbergplatz 4, 1031 Vienna, Austria. *Telephone:* 02222/72 56 51.

HALVORSEN, Tor; Norwegian politician; b. 24 Nov. 1930, Skien; mem. Cen. Bd., Nat. Insurance Scheme, Fund for Industrial Enterprises; Chair. Herøya Labour Assen. 1965-68; Instructor, Workers' Educ. League 1968-69, later Chair. of Bd.; Sec. Trades Union Congress 1969-73; Minister of Environment 1973-74, of Social Affairs 1974-76; Labour. *Address:* c/o Ministry of Social Affairs, Oslo, Norway.

HAMBRO, Charles Eric Alexander; British banker; b. 24 July 1930; s. of late Sir Charles Hambro and Pamela Cobbold; m. 1st Rose E. Cotterell 1954 (dissolved 1976), two s. one d.; m. 2nd Cherry Twiss 1976; ed. Eton Coll.; joined Hambros Bank Ltd. 1952, Man. Dir. 1957-65, Deputy Chair. 1965-72, Chair. March 1972-; Vice-Chair. Guardian Royal Exchange Assurance Co., Taylor Woodrow Ltd.; Chair. Royal Nat. Pension Fund for Nurses 1968. *Leisure interests:* shooting, racing, flying. *Address:* Hambros Bank Ltd., 41 Bishopsgate, London, E.C.2 (Office); 69 Victoria Road, London, W.8; Dixton Manor, Gotherington, Cheltenham, Glos., England (Homes).

HAMBRO, Jocelyn Olaf, M.C.; British banker; b. 7 March 1919; ed. Eton and Trinity Coll., Cambridge; in Coldstream Guards 1939-45; with Hambros Bank Ltd. 1945-, Man. Dir. 1947-72, Chair. 1965-72; Chair. Hambros Ltd. 1970-; Chair. Berkeley Hambro Property Co. Ltd.; Chair Phoenix Assurance Co. Ltd. 1978-, also Dir., Dir. Charter Consolidated Ltd., John Jacobs and Co. Ltd., Chichester Diamonds Ltd. *Address:* 16 Victoria Road, London, W8 5RD, England.

HAMBURGER, Christian; Danish doctor; b. 19 Feb. 1904, Copenhagen; s. of Dr. Ove Hamburger and Agnete Barnekow; m. 1st Mary J. Frydensberg 1932; m. 2nd Ilse Levin 1940 (died 1977); two s. one d.; ed. Københavns Universitet; Scientific Asst., Inst. for Gen. Pathology, Univ. of Copenhagen 1932-35; Head, Hormone Dept. Statens Seruminstitut, Copenhagen 1934-74; mem. Advisory Panel Ciba Foundation 1949-73; mem. Advisory Panel on Biological Standardisation, World Health Org. (WHO) 1952-71; Pres. Danish Soc. for Endocrinology 1947-72; Chief Editor Acta Endocrinologica 1960-73; Alfred Benzon Prize 1960, Pfizer Prize 1964, Thorvald Madsen Prize 1966; Hon. mem. Deutsche Gesellschaft für Endokrinologie 1970, Finnish Soc. for Endocrinology 1970, Danish Soc. for Endocrinology 1972, Swedish Soc. for Endocrinology 1973; Hon. Fellow, Royal Coll. of Physicians, Edinburgh 1974. *Publications:* Studies on gonadotropic hormones from the hypophysis and chorionic tissues 1933, Hypophyseal, gonadal and adrenal hormones 1950, Hormone Research 1967. *Leisure interests:* literature, painting. *Address:* 62 Slotsvej, DK-2920 Charlottenlund, Copenhagen, Denmark. *Telephone:* (01) 63 31 16.

HAMBURGER, Jean, M.D., PH.D.; French professor of medicine; b. 15 July 1909, Paris; s. of A. Hamburger and M. Marix; m. Catherine Deschamps 1964; two s. one d.; ed. Lycée Carnot and Faculty of Medicine, Sorbonne, Paris; Prof. of Medicine, Univ. of Paris 1956-; Chief of Nephrology Dept., Hôpital Necker, Paris 1958-; Dir. INSERM renal research unit and CNRS lab. for research on graft immunology; Vice-Pres. Foundation for French Medical Research; mem. Inst. de France (Acad. des Sciences) 1974, Nat. Acad. of Medicine 1975; fmr. Pres. Int. Soc. of Transplantation, Int. Soc. of Nephrology; F.R.C.P. (London, Edinburgh, Canada); Hon. F.R.S.M.; Commdr., Légion d'honneur. *Publications:* Néphrologie 1966, La Transplantation rénale 1970, Structure and Function of the Kidney 1971, La Puissance et la fragilité 1972 (translated into 14 languages), L'Homme et les hommes 1976, Discovering the Individual 1978. *Address:* Centre de Recherches

Néphrologiques, Hôpital Necker, 161 rue de Sèvres, Paris 15e (Office); 38 rue Mazarine, Paris 6e, France (Home). *Telephone:* 273-24-42 (Hospital); 633-33-99 (Home).

HAMBURGER, Viktor, PH.D.; American university professor; b. 9 July 1900, Landeshut, Germany; s. of Max and Else Hamburger; m. Martha Fricke 1927 (died 1965); two d.; ed. Univs. of Heidelberg, Munich, Freiburg; Instructor, Univ. of Chicago 1932-35; Asst. Prof. of Zoology, Washington Univ., St. Louis 1935-39, Assoc. Prof. 1939-41, Prof. 1941-69, Chair. Dept. of Zoology 1941-66; E. Mallinckrodt Distinguished Service Univ. Prof. 1968-69; Prof. Emer. of Biology 1969-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Hon. Dr. Sc. (Washington); F. O. Schmitt Medal and Prize in Neuroscience 1976, Wakeman Award in Neurosciences 1978. *Publications:* A Manual of Experimental Embryology 1942, 1960; over 100 publications in scientific journals. *Address:* Department of Biology, Washington University, St. Louis, Mo. 63130; 740 Trinity Avenue, St. Louis, Mo. 63130, U.S.A. (Home). *Telephone:* (314) 889-6830.

HAMENGKUBUWONO IX, H.R.H. Sultan Dorodjatun; Indonesian ruler; b. 12 April 1912; ed. Univ. of Leiden; Inaugurated Sultan of Jogjakarta (now Yogyakarta) 1940; Mil. Gov. of Special Territory (with rank of Maj.-Gen. of the Army) 1945-49; Head of Special Territory 1946; Gov., Head of Special Territory 1959; mem. Provisional People's Consultative Ass. Aug. 1959, Titular Gen. of the Army 1960; Minister of State 1946-49; Minister of Defence and Co-ordinator of Domestic Security Aug.-Dec. 1959; Defence Minister, Cabinet of the Repub. of the United States of Indonesia Dec. 1949, 1953; Deputy Prime Minister 1950-51; Curator Univ. of Gadja Mada Dec. 1951; Chair. Supervisory Comm. for the Apparatus of the State Aug. 1959; Minister and Head, Body for Controlling State Finance 1964; First Minister for Econ. and Financial Affairs in the Presidium and Deputy Prime Minister 1966-68; State Minister for Econ. Affairs, Finance and Industry 1968-73; Vice-Pres. of Indonesia 1973-78; Chair. Indonesian Olympic Cttee. 1951, Tourist Inst. 1956, Asian Games Fed. 1958, Indonesian Tourist Council 1962-73; Chair. Session, Econ. Comm. for Asia and the Far East (ECAFE) 1957, Nat. Preparatory Cttee. for New York World Fair 1963; Chief Del. of Indonesia, Pacific Area Travel Assen. (PATA), U.S. 1958, UN First World Conf. of Int. Travel and Tourism, Rome 1963; Medal of the Guerilla, Medal of Loyalty to the Independence and the Order of the White Elephant (Thailand); Hon. titles of Maha Putra (Spes Patria) and Pramuka Agung (Supreme Scout). *Address:* c/o Office of the Vice-President, Medan Merdeka Selatan 6, Jakarta, Indonesia.

HAMER, A.W.; Australian business executive; b. 27 Nov. 1917; ed. Oxford Univ.; joined ICI Australia, England 1941, returned to Australia 1942; associated with setting up of new plants; Works Man. Yarraville plant 1950-56; Controller Tech. Dept. 1956-59, Dir. 1959-68; Chair. ICI Group of Cos. India 1968-71, concurrently Dir. ICI Australia; Man. Dir. ICI Australia Ltd. 1971-; Chair. Australian Fertilizers Ltd., Consolidated Fertilizers Ltd., Fibremakers Ltd.; Dir. ICI New Zealand; Rhodes Scholarship 1937. *Address:* ICI Australia Limited, ICI House, 1 Nicholson Street, Melbourne, Australia.

HAMER, Rupert James, LL.M.; Australian solicitor and politician; b. 29 July 1916, Kew, Vic.; ed. Melbourne and Geelong Grammar Schools, Univ. of Melbourne; joined Australian Imperial Forces 1940; C.O. Vic. Scottish Regt., Citizen Mil. Forces 1954-58; mem. Vic. Legis. Council for E. Yarra 1958-71; Minister for Immigration, Vic. 1962-64, for Local Govt., Vic. 1964-71; mem. Vic. Legis. Ass. for Kew 1971-; Chief Sec., Deputy Premier, Vic. 1971-72, Premier, Treas. and Minister of the Arts Aug. 1972-. *Address:* Office of the Premier of Victoria, Melbourne, Victoria, Australia.

HAMID, Agha Abdul; Pakistani United Nations official; b. 2 Aug. 1912, Sialkot, W. Pakistan; m. Abida Hussain 1951; one s. two d.; ed. Govt. Coll., Lahore, and Emmanuel Coll., Cambridge; joined Indian Civil Service 1935, Asst. Commr. 1937; Deputy Dir.-Gen. All-India Radio 1942-45; Deputy Registrar, later Registrar of Co-operative Socs. 1945-47; Sec. to late Liaquat Ali Khan, Prime Minister of Pakistan 1948-51; Prime Minister of Kalat State 1951-53, Baluchistan State Union 1953-54; Jt. Sec. to Cen. Cabinet 1954-55, Jt. Sec. in charge of Ministry of Information and Broadcasting 1955-56; Jt. Sec. Cabinet 1956-58, Cabinet Sec. 1958, 1966-68; Commr. in Peshawar 1959-60; Admin. 1960-61; Dir. Civil Service Acad. 1961-66; Chair. Cen. Public Service Comm. 1966; Asst. Sec.-Gen. for Public Information, UN 1968-72; UN Commr. for Namibia 1972-73; Founder, later Sec. and Chair. Karachi Fine Arts Soc.; fmr. Chair. Pakistan Arts Council; Pres. Pakistan Section of Int. Assen. of Art Critics; Sitara Quaid-i-Azam. *Publications:* Majlis, Scrutiny. *Leisure interests:* study of history, literature and art. *Address:* United Nations Secretariat, New York, N.Y., U.S.A.

HAMILTON, Alexander Daniel, B.ENG.; Canadian engineer; b. 13 Nov. 1917, Montreal; s. of Daniel Evoy Hamilton and Isobel Stewart; m. Frances McLeod 1942; three s. two d.; ed. Westmount High School, McGill Univ.; Asst. Div. Man. Ontario Paper Co. Ltd. 1960; Vice-Pres. B. C. Forest Products Ltd. 1961, Pres. 1964, Pres. and Chief Exec. Officer 1967; Pres. Domtar Pulp and Paper Products Ltd. 1968, Pres. and Chief Exec. Officer Domtar Inc. 1974-. *Leisure interests:* golf, fishing, skiing, tennis. *Address:* Domtar Inc., P.O. Box 7210, Montreal, P.Q., H3C 3M1 (Office); 3 Murray Avenue, Westmount, P.Q., H3Y 2X9, Canada (Home). *Telephone:* (514) 282-5255 (Office); (514) 489-1297 (Home).

HAMILTON, Sir (Charles) Denis, Kt., D.S.O., T.D.; British newspaper director and editor; b. 6 Dec. 1918, South Shields, Co. Durham; s. of Charles and Helena Hamilton; m. Olive Wanless 1939; four s.; ed. Middlesbrough High School; with Evening Gazette, Middlesbrough, and Evening Chronicle and Journal, Newcastle 1937-39; served Infantry 1939-46; Personal and Editorial Asst. to Viscount Kemsley 1946-50; Editorial Dir. Thomson (fmrly. Kemsley) Newspapers Ltd. 1950-66; Editor The Sunday Times 1961-67; Editor-in-Chief and Chief Exec. Times Newspapers Ltd. 1967-70, Chair. and Editor-in-Chief 1970-; Chair. Reuters Ltd. 1979-; Dir. Newcastle Chronicle and Journal Ltd., Evening Gazette Ltd., Times Newspapers Ltd., The Thomson Organization Ltd.; Founder mem. Nat. Council for the Training of Journalists, Chair. 1958-59; mem. Council NPA, Press Council, Bd of the British Library 1975-; Chair. British Museum Publs. Co. Ltd.; Pres. British Cttee., Int. Press Inst.; Trustee, British Museum 1969-; Gov. British Inst. of Florence 1974-; Hon. D.Litt. (Southampton) 1975, Hon. D.Litt. (City Univ., London) 1977. *Leisure interests:* sailing, fruit farming. *Address:* Times Newspapers Ltd., P.O. Box 7, New Printing House Square, Gray's Inn Road, London WC1X 8EZ (Office); Weston House, Nutbourne, Nr. Chichester, Sussex, England (Home). *Telephone:* 01-828 0410 (Home).

HAMILTON, Fowler; American lawyer; b. 7 May 1911, Kansas City; s. of Eugene Paul and Emily Rhodelle (Fowler); m. Helen Katherine Miller 1934; one s. two d.; ed. Univ. of Missouri and Oxford Univ.; private legal practice 1935-38; Special Asst. to Attorney-Gen. 1938-42; Dept. of Justice 1942; Econ. Warfare Div., American Embassy, London 1943; Chief Enemy Branch, Foreign Econ. Admin. 1942-43; U.S.A.A.F. 1943-44; Chief Legal Consultant, U.S. Dept. of Justice 1945; Partner, Cleary, Gottlieb, Steen and Hamilton, New York 1946-61 and 1963-; Gen. Counsel Sub-Cttee. of Air Force, Senate Armed Forces Cttee. 1956; mem. N.Y. County Lawyers Assen.; mem. Council of Foreign Relations, Foreign Policy Assen., American Coll. of Trial Lawyers; Admin. U.S. Agency for Int. Devt. 1961-62; Democrat. *Address:* One State Street Plaza, New York, N.Y. 10004 (Office); 652 Riversville Road, Greenwich, Conn. 06830, U.S.A. (Home).

HAMILTON, Hamish, M.A., LL.B.; British publisher; b. 15 Nov. 1900; ed. Rugby and Cambridge; called to Bar Inner Temple 1926; European Rep. Harper & Bros. New York 1926-31; founded Hamish Hamilton Ltd., Publishers 1931, Chair. 1931-, Man. Dir. 1931-72; served Army 1939-41; mem. staff American Div.; Ministry of Information 1941-45; a Gov. British Inst. Florence; Hon. Sec. Kinsmen Trust 1942-56; Chevalier, Légion d'honneur. *Publications:* Ed. anthologies: Decade 1941, Majority 1952. *Address:* 43 Hamilton Terrace, London, N.W.8, England.

HAMILTON, Richard; British artist; b. 24 Feb. 1922; m. Terry O'Reilly 1947 (died 1962); ed. elementary school, evening classes, St. Martin's School of Art, Royal Academy Schools and Slade School of Art; jig and tool draughtsman, Design Unit 1941-42, Electrical & Musical Industries (EMI) 1942-45; exhbn. of Reaper engravings, Gimpel Fils 1950; devised Growth and Form exhbn., Inst. of Contemporary Arts (ICA) 1951; teacher of design, Central School of Arts and Crafts 1952-53; mem. Independent Group, ICA 1952-55; Lecturer, Fine Art Dept., King's Coll., Univ. of Durham (later Univ. of Newcastle-upon-Tyne) 1953-66; teacher of Interior Design Royal Coll. of Art 1957-61; exhbns. of paintings 1951-55 and 1956-64, Hanover Gallery 1955 and 1964; organized exhbn. of works by Marcel Duchamp, Tate Gallery 1966; exhbn. of Guggenheim reliefs and studies, London 1966; exhbns. in Kassel 1967, New York 1967, Studio Marconi, Milan 1968, Hamburg 1969; exhbn. of Swinging London 1967 and beach scene paintings, London 1969; exhbn. of Cosmetic Studies, Milan 1969, Berlin 1970; retrospective exhbns., Tate Gallery 1970 (seen in Switzerland and Netherlands also), Guggenheim Museum, New York 1973, Nationalgalerie, Berlin 1974, Paintings, Pastels, Prints, London 1975, Amsterdam 1976, Drawings retrospective, Bielefeld 1978, Prints retrospective. Vancouver 1978; William and Noma Copley Foundation award for painting 1960; Jt. First Prize, John Moores Liverpool Exhbn. 1969, Talens Prize, Amsterdam 1970. *Address:* Northend Farm, Northend, Oxon., RG9 6TQ, England.

HAMILTON, Hon. William McLean, P.C., O.C., B.SC.COM.; Canadian executive and politician; b. 23 Feb. 1919, Montreal; m. Ruth Isabel Seeman 1954; ed. Montreal High School and Sir George Williams Univ.; Gen. Man. Advertising and Sales Executives' Club of Montreal 1949-57; City Councillor, Montreal 1950-57; M.P. 1953-62; Postmaster-Gen. of Canada 1957-62; Pres. Canadian Park & Tilford Distilleries Ltd. 1963-66, British Columbia Int. Trade Fair 1966-67; Chair. Fidelity Life Assurance Co., Century Insurance Co. of Canada 1968-; Pres. Vancouver Bd of Trade 1970-71, Brink-Hamilton Enterprises Ltd. 1970-78; Pres. and Chief Exec. Officer Employers' Council of British Columbia 1973-; Gov. Simon-Fraser Univ.; Dir. Wasteco Disposal Ltd., Foursome Devt. Ltd., Phoenix Assurance Co. of Canada. *Leisure interest:* boating. *Address:* 1055 West Hastings, Vancouver, B.C., V6E 2E9 (Office); 6212 Wiltshire Street, Vancouver, B.C., V6M 3M2, Canada (Home). *Telephone:* 684-3384 (Office).

HAMMADI, Sadoon; Iraqi economist and politician; b. 22 June 1930, Karbala; m. Lamia Hammadi 1961; four s.; ed. in Beirut, Lebanon and U.S.A.; Prof. of Econs., Univ. of Baghdad 1957; Deputy Head of Econ. Research, Nat. Bank of Libya, Tripoli 1961-62; Minister of Agrarian Reform 1963; Econ. Adviser to Presidential Council, Govt. of Syria 1964; Econ. Expert, UN Planning Inst., Syria 1965-68; Pres. Iraq Nat. Oil Co. (INOC) 1968-; Minister of Oil and Minerals 1969-74, of Foreign Affairs 1974-. *Publications:* Towards a Socialistic Agrarian Reform in Iraq 1964, Views about Arab Revolution 1969. *Leisure interests:* swimming, walking, coin collection, reading novels. *Address:* Ministry of Foreign Affairs, Baghdad, Iraq. *Telephone:* 30091 (Office); 511733 (Home).

HAMMARSKJÖLD, Knut Olof Hjalmar Akesson, PH.M.; Swedish diplomatist; nephew of the late Dag Hammarskjöld, Sec.-Gen. of the UN; b. 16 Jan. 1922; m.; four s.; ed. Stockholm Univ.; entered Foreign Service 1946, served Paris, Vienna, Moscow, Bucharest, Kabul, Sofia 1947-55; First Sec. Foreign Office 1955-57; Head of Foreign Relations Dept., Royal Bd. of Civil Aviation, Stockholm 1957-59; Deputy Head, Swedish Del. to OEEC, Paris 1959-60; Deputy Sec.-Gen. European Free Trade Assen. (EFTA) 1960-66; Minister Plenipotentiary; Dir.-Gen. of Int. Air Transport Assen. (IATA), Montreal 1966-; mem. Inst of Transport, London; Hon. Fellow, Canadian Aeronautics and Space Inst.; Commdr. Order of the Lion (Finland), Order of the Falcon (Iceland), Order of Orange-Nassau, Order of the Black Star (France), Grand Officer, Order Al-Istiqlal; Commdr. (1st Class) Order of the North Star. *Publications:* articles on political, economic and aviation topics. *Address:* IATA, 1155 Mansfield Street, Montreal H3B 4A4, P.Q., Canada; P.O. Box 315, 1215 Geneva 15 Airport, Switzerland. *Telephone:* (514) 866-1011 (Montreal); (022) 98-33-66 (Geneva).

HAMMER, Armand, B.S., M.D.; American petroleum executive; b. 21 May 1898, New York; s. of Dr. Julius Hammer and Rose Robinson; m. 1st Baroness Olga von Root 1927; one s.; m. 2nd Angela Zevely 1943; m. 3rd Frances Barrett 1956; one s.; ed. Columbia Univ.; Mil. Service, U.S. Army Medical Corps 1918-19; Pres. Allied American Corpn. 1923-25, A. Hammer Pencil Co. (New York, London, Moscow) 1925-30, Hammer Galleries Inc. 1930-; J. W. Dant Distilling Co. 1943-54; Pres. and Chair. of Bd. Mutual Broadcasting System (New York) 1957-58; Chair. of Bd. and Chief Exec. Officer Occidental Petroleum Corpn. 1957-; Chair. M. Knoedlers and Co., Inc. 1972-; mem. Advisory Bd. of Inst. of Peace 1950-54, Bd. of Govs. Eleanor Roosevelt Cancer Foundation 1960-, Bd. of Dirs. City Nat. Bank (Beverley Hills) 1962-71, Bd. of Trustees Eleanor Roosevelt Memorial Foundation 1963-, Bd. of Dirs. Canadian Occidental Petroleum Ltd. 1964-, Bd. of Dirs. Raffinerie Belge de Pétroles (RBP) 1968-, Public Advisory Cttee. on U.S. Trade Policy 1968-69, Nat. Petroleum Council 1968-, Exec. Cttee. Econ. Devt. Bd., Los Angeles 1968-73, Exec. Bd. of Dirs. UN Assen. of Los Angeles 1969-, Bd. of Dirs. UN Assen. of U.S.A. 1970-, of the U.S.—U.S.S.R. Trade and Econ. Council, Inc. 1973-, of the Assocs. of Harvard Business School 1975-, of the American Petroleum Inst. 1975-, of the Salk Inst. for Biological Studies (mem. Bd. of Trustees and Chair. Exec. Cttee.) 1969-; Hon. mem. Bd. of Dirs. Florida Nat. Bank of Jacksonville 1966-; Hon. Corresponding mem. Royal Acad. of Arts 1975-; Hon. LL.D. (Pepperdine) 1978, (South Eastern Univ.) 1978; Humanitarian Award, Eleanor Roosevelt Cancer Foundation 1962; Commdr., Order of the Crown (Belgium) 1969; Commdr., Order of Andres Bellos (Venezuela) 1975; Officier, Légion d'honneur 1978; Order of Friendship between Peoples (U.S.S.R.) 1978. *Publication:* Quest of the Romanoff Treasure 1932. *Address:* Occidental Petroleum Corporation, 10889 Wilshire Boulevard,Suite 1500, Los Angeles, Calif. 90024, U.S.A. *Telephone:* 213-879-1700.

HÄMMERLING, Joachim, DR.PHIL.; German biologist; b. 9 March 1901, Berlin; s. of August and Gertrud (née Titlé) Hämmerling; m. Charlotte Klose 1931; three s. one d.; ed. Landesschule zur Pforte and Univs. of Berlin and Marburg; Scientific Asst., Kaiser Wilhelm Inst. für Biologie, Berlin-Dahlem 1924; German Dir. deutsch.-italien. Inst. für Meeresbiologie, Rovigno 1940; Head of Dept., Kaiser Wilhelm Inst. für Biologie, Langenargen 1945; Dir. Max Planck Inst. für Zellbiologie, Wilhelmshaven 1947-70, Dir. Emer. 1970-; Foreign mem. Royal Soc., London 1970; Hon. Dr. rer. nat. 1976. *Publications:* numerous scientific works and articles. *Leisure interest:* music. *Address:* 2940 Wilhelmshaven, Schopenhauerstrasse 27, Federal Republic of Germany. *Telephone:* 04421-31214.

HAMMETT, Louis Plack, A.B., PH.D.; American chemist; b. 7 April 1894, Wilmington, Del.; s. of Philip Melancthon and Louise (Plack) Hammett; m. Janet Thorpe Marriner 1919; one s. one d.; ed. Harvard Coll., Columbia Univ., Technische Hochschule, Zürich; civilian chemist, U.S. Army 1917-19; with Columbia Univ. as Instructor, Asst. Prof., Assoc. Prof., Prof. since 1920; on leave 1941-45 for work under direction of Office of Scientific Research and Devt., U.S. Govt.; Chair. Div. of Chem. and Chemical Tech., Nat. Research Council 1946-47; Consulting Ed. Int. Chemical Series 1940-55; Chair. Bd. of Dirs., American Chemical Soc. 196¹; Mitchill Prof. Emer. of Chem., Columbia Univ. 1961-; Visiting Sr. Chemist, Brookhaven Nat. Lab. 1962; Distinguished Visiting Lecturer, Univ. of S. Carolina 1962, Pennsylvania State Univ. 1964, Purdue Univ. 1964; mem. Emer. Nat. Acad. of Sciences; Hon. Fellow Chemical Soc. (London) 1965; Hon. D.Sc. (Columbia) 1962; awarded William H. Nichols Medal 1957, James Flack Norris Award 1960, Priestly Medal, Willard Gibbs Medal 1961, James Flack Norris Award in Physical Organic Chemistry 1966, Gilbert Newton Lewis Medal 1967, Nat. Medal of Science, Charles Frederick Chandler Medal 1968; Barnard Medal 1975. *Publications:* Solutions of Electrolytes 1929, Physical Organic Chemistry 1940, 2nd edn. 1970, Introduction to the Study of Physical Chemistry 1952. *Leisure interest:* good company. *Address:* 288 Medford Leas, Medford, N.J. 08055, U.S.A. *Telephone:* (609) 654-3288.

HAMMOND, George Simms, B.S., M.S., PH.D.; American professor of chemistry; b. 22 May 1921, Auburn, Me.; s. of Oswald K. Hammond and Majorie Thomas; m. 1st Marian Reese 1945 (divorced 1977); three s. two d. two step-d.; m. 2nd Eva Menger 1977; ed. Bates Coll. of Lewiston, Maine and Harvard Univ.; Asst. Prof. of Chem., Iowa State Univ. 1948-52, Assoc. Prof. 1952-56, Prof. 1956-58; Prof. of Organic Chem., Calif. Inst. of Tech. 1958-64, Arthur Amos Noyes Prof. of Chem. 1964-, Chair. Div. of Chem. and Chemical Eng. 1968-71; Vice-Chancellor Sciences, Univ. of Calif., Santa Cruz 1971-74, Prof. of Chemistry 1971-78, Assoc. Dir. for Corporate Research, Allied Chemical Co. 1978-; Foreign Sec. Nat. Acad. of Sciences 1974-78; mem. American Acad. of Arts and Sciences; Hon. D.Sc. (Wittenburg Univ., Springfield, Ohio) 1972; Dr. h.c. (State Univ. of Ghent) 1973, (Bates Coll., Lewiston, Maine) 1973; American Chemical Soc. Award in Petroleum Chem. 1961, Edward Curtis Franklin Memorial Award for Outstanding Contributions to Chem. 1964, James Flack Norris Award in Physical Organic Chem. 1968, E. Harris Harbison Award for Gifted Teaching, Danforth Foundation 1971, ACS Award in Chemical Education 1974; Priestly Medallist 1976, ACS 1976, Golden Plate Award, American Acad. of Achievement 1976. *Publications:* Co-author: Quantitative Organic Analysis 1957, Organic Chemistry 1959, Advances in Photochemistry (Co-editor) 1967, Elements of Organic Chemistry 1967, Chemical Dynamics 1968, Annual Survey of Photochemistry 1969, Models in Chemical Science 1970; and 250 papers and reviews. *Leisure interests:* family, golf, reading. *Address:* Allied Chemical Corpn., Box 1021R, Morristown, NJ 07960 (Office); 43 Noe Avenue, Madison, NJ 07940, U.S.A. (Home). *Telephone:* 408-429-2004.

HAMMOND, Jay; American state governor; b. 21 July 1922, Troy, N.Y.; m. Bella Gardiner; two d.; ed. Scotia, New York High School, Univ. of Alaska; served U.S. Navy 1942-46, Marine Fighter Pilot, Capt.; Bush Pilot 1946-48; Pilot for U.S. Fish and Wildlife Service 1948-56; fisherman, guide and air taxi operator 1956-; mem. Alaska House of Reps. 1959-65, Chair. Resources Cttee., Republican Party Whip; Man. Bristol Bay Borough 1965-67, Mayor 1972; mem. Alaska Senate 1967-72, Majority Whip, Majority Leader, Chair. Rules and Resources Cttees., Pres. of Senate; Gov. of Alaska Jan 1975-. *Publications:* various poems. *Address:* State Capitol, Juneau, Alaska, U.S.A. *Telephone:* (907) 465-3500.

HAMMOND, Dame Joan, D.B.E., C.M.G.; Australian singer (retd.); b. 24 May 1912, Christchurch, New Zealand; d. of late Samuel H. and Hilda M. Blandford Hammond; ed. Presbyterian Ladies Coll., Pymble, Sydney and Sydney Conservatorium of Music (violin and singing); fmr. mem. Sydney Philharmonic Orchestra and sports writer, Daily Telegraph, Sydney; first public (singing) appearance, Sydney 1929; London début in Messiah 1938; operatic début,

Vienna 1939; has appeared as guest artist at Royal Opera House, Covent Garden, Sadlers Wells, Vienna State Opera, Bolshoi Theatre, Moscow, New York City Center, Netherlands Opera, Barcelona Liceo, etc.; world tours have included Europe, U.S.A., Canada, Australasia, India, S. Africa and U.S.S.R.; repertoire includes: Aïda, Madame Butterfly, Tosca, Othello, Don Carlos, La Traviata, La Bohème, Turandot, Tannhäuser, Lohengrin, and Die Zauberflöte; Head of Vocal Studies, Master Tutor in Voice, Vocal Consultant, Victorian Coll. of Arts; records for HMV (fmrly. for Columbia); Coronation Medal 1953; Sir Charles Santley Award, Worshipful Co. of Musicians 1970. *Publication:* A Voice, A Life. *Leisure interests:* golf, yachting, swimming, writing, reading. *Address:* Private Bag 101, Geelong Mail Centre, Victoria 3221, Australia; also c/o Bank of Australasia, 11 Albemarle Street, London, W1X 4AS, England.

HAMMOND INNES, Ralph, C.B.E.; British author; b. 15 July 1913, Horsham, Sussex; s. of late William Hammond and Dora Beatrice Innes; m. Dorothy Mary Lang 1937; Financial News 1934-40; Royal Artillery 1940-46. *Publications:* Wreckers Must Breathe 1940, The Trojan Horse 1940, Attack Alarm 1941, Dead and Alive 1946, The Lonely Skier 1947, The Killer Mine 1947, Maddon's Rock 1948, The Blue Ice 1948, The White South 1949, The Angry Mountain 1950, Air Bridge 1951, Campbell's Kingdom 1952, The Strange Land 1954, The Mary Deare 1956, The Land God Gave to Cain 1958, Harvest of Journeys 1960, The Doomed Oasis 1960, Atlantic Fury 1962, Scandinavia 1963, The Strode Venturer 1965, Sea and Islands 1967, The Conquistadors 1969, Levkas Man 1971, Hammond Innes Introduces Australia 1971, Golden Soak 1973, North Star 1974, The Big Footprints 1977, The Last Voyage 1978; works translated into most languages; *Films:* Snowbound, Hell Below Zero, Campbell's Kingdom, The Wreck of the Mary Deare, The Golden Soak (TV). *Leisure interests:* cruising and ocean racing, forestry. *Address:* Ayres End, Kersey, Suffolk, England. *Telephone:* Hadleigh (Suffolk) 3294.

HAMOUZ, František; Czechoslovak politician; b. 15 Aug. 1919, Chráštany; ed. Commercial Acad., Teplice Bohemian Oil Works, Ústí n/Labem; Foreign Trade Service 1948-, Oleaspol Co., later in Foreign Trade Corpn.; Chief. Man. Foreign Trade Corpn., Motokov 1951-53; Deputy Minister for Foreign Trade 1953-54; Deputy Sec. Council for Mutual Econ. Assistance, Moscow 1954-58; First Deputy Minister for Foreign Trade 1959-63, Minister for Foreign Trade 1963-68; Deputy Prime Minister April-Dec. 1968; Perm. Rep. of Czechoslovakia to CMEA 1968-73; Deputy to Nat. Ass. 1964-69; mem. State Planning Comm. 1965-68; Deputy Prime Minister, Fed. Govt. of Č.S.S.R. Jan. 1969-76; Deputy to House of the People, Fed. Ass. 1969-76; Minister of Foreign Trade of Č.S.S.R. Sept. 1969-Jan. 1970; mem. Cen. Cttee. CP of Czechoslovakia 1969-76; Chair. Council for Int. Econ. and Scientific and Tech. Co-operation at Govt. of Č.S.S.R. 1969-73; Chair. Govt. Cttee for Tourism 1972, Czechoslovak Section of Č.S.S.R.—G.D.R. Cttee. for Econ., Scientific and Tech. Co-operation 1968-76; Amb. to G.D.R. 1976-; Distinction of Outstanding Work 1961, Order of Labour 1969. *Address:* Embassy of Czechoslovakia, Schönhauser Allee 10-11, 1054 Berlin-Prenzlauer Berg, German Democratic Republic.

HAMPSHIRE, Stuart, F.B.A.; British university professor; b. 1 Oct. 1914, Healing, Lincs.; s. of George N. Hampshire and Marie West; m. Renée Orde-Lees 1962; ed. Repton School and Balliol Coll., Oxford; Fellow, All Souls Coll., Oxford 1936-45; service in army and Foreign Office 1940-46; Lecturer in Phil. Univ. Coll., London 1947-50; Fellow, New Coll., Oxford 1950-55; Research Fellow, All Souls Coll., Oxford 1955-60; Prof. of Phil., Univ. Coll., London 1960-63; Prof. and Chair. Dept. of Phil., Princeton Univ. 1963-70; Warden of Wadham Coll., Oxford 1970-; Fellow, British Acad., American Acad. of Arts and Sciences. *Publications:* Spinoza 1951, Thought and Action 1959, Freedom of the Individual 1965, Modern Writers and Other Essays 1969, Freedom of Mind and Other Essays 1971, Morality and Pessimism 1972, Public and Private Morality 1978. *Address:* Wadham College, Oxford, England. *Telephone:* Oxford 41638.

HAMPSON, H. Anthony, M.A. (ECON.); Canadian administrator; b. 18 Aug. 1930, Montreal; s. of late Harold R. Hampson and Geraldine M. Smith Hampson; m. 2nd Pamela J. Wickett 1972; two s. two d. (by first marriage); ed. schools in Montreal and Lennoxville and McGill and Cambridge Univs.; Credit Analyst, Bank of Montreal 1952-53; Econ. Policy Div. Dept. of Finance, Ottawa 1953-57; Dir. of Research and Underwriting, Burns Bros. & Denton, Toronto 1957-64; Sec. Royal Comm. on Banking and Finance 1961-64; Vice-Pres. Power Corpn. of Canada Ltd. 1964; Pres. Capital Man. Ltd. 1965, Full-time Pres. 1968-71; Chair. Canada Devt. Corpn. 1972-. *Leisure interests:* tennis, skiing. *Address:* Canada Development Corporation, Suite 901, 130 Albert Street, Ottawa K1P 5G4, Canada. *Telephone:* 613-237-6464.

HAMPSON, Robert J., M.B.A.; American business executive; b. 28 May 1917, Riverside, Calif.; s. of Richard Burrell Hampson and Maude Jacquins; m. Sadie Gravely 1946; three s. two d.; ed. Riverside High School, Harvard Univ.; served in U.S. Navy; joined Ford Motor Co. 1947, Man. Facilities Analysis Dept. 1949, later Man. Capital Investment Analysis Dept.; Exec. Asst. to Vice-Pres. 1953, Head of the Transmission and Chassis Div. 1958-61, Vice-Pres., Gen. Man. Ford Tractor Operations 1961-69, Exec. Vice-Pres. Non-Automotive Operations 1969-72, Dir. 1970; Chair. of Bd., Chief Exec. Officer, Dir. Philco-Ford Corpn. 1970-72; Exec. Vice-Pres. Ford Int. Automotive Operations 1972-73; Exec. Vice-Pres. N. American Automotive Operations 1973-; Exec. Vice-Pres. Corpn. Staffs. *Address:* Ford Motor Co., The American Road, Dearborn, Mich. 48121, U.S.A.

HAMPTON, Christopher James, M.A., F.R.S.L. British playwright; b. 26 Jan. 1946, Fayal, the Azores, Portugal; s. of Bernard Patrick and Dorothy Patience (née Herrington) Hampton; m. Laura Margaret de Holesch 1971; two d.; ed. Lancing Coll., New Coll., Oxford; wrote first play When Did You Last See My Mother? 1964; resident dramatist, Royal Court Theatre 1968-70; freelance writer 1970-; Evening Standard Award for best comedy 1970; Plays and Players London Critics' Award for best play 1970, 1973; Los Angeles Drama Critics Circle Award 1974. *Publications:* When Did You Last See My Mother? 1967, Total Eclipse 1969, The Philanthropist 1970, Savages 1973, Treats 1974, Able's Will (TV) 1978; *translations include:* Marya (Babel) 1967, Uncle Vanya, Hedda Gabler, A Doll's House (film) 1970, Don Juan 1972, Tales from the Vienna Woods 1975. *Leisure interests:* travel, cinema. *Address:* 2 Kensington Park Gardens, London, W.11, England. *Telephone:* 01-229 2188.

HAMRE, Gen. Sverre Ludwig Borgund; Norwegian army officer; b. 19 Oct. 1918, Bergen; s. of Olav and Borghild (née Borghund) Hamre; m. Elna Kristiansen 1944; one s. one d.; ed. War Academy; served in Norway 1940; Norwegian Brigade Scotland 1941; Platoon Leader and Co. Commdr. 4th Battalion Welsh Regt. in France, Netherlands, Belgium and Germany 1944; Staff Officer, Army Command 1947, Norwegian Brigade in Germany 1949, Northern Norway 1953; Staff Officer, Allied Forces Northern Europe 1955, Planning Staff NATO Standing Group 1958; Commandant Army Staff Coll. 1961; 2nd in Command, The Brigade in Northern Norway 1964; Logistics, Army Command 1965; Dir. Gen. Logistics and Procurement, Ministry of Defence 1967; Commdr. Allied Forces North Norway 1974; Chief of Defence 1977-; Commdr. with Star, Order of St. Olav, several other Norwegian and foreign decorations. *Leisure interest:* fishing. *Address:* Headquarters Defence Command Norway, Oslo mil/Huseby, Oslo 1; Ryghs vei 2, Oslo 3, Norway (Home). *Telephone:* 17-82-01 (Office); 14-49-81 (Home).

HAMZAH, Tengku Tan Sri Datuk Razaleigh (*see* Razaleigh).

HAN HSIEN-CH'U; Chinese government official; b. 1911; Hunan Province; Battalion Commdr. Red 4th Front Army 1931; Commdr. 73rd Division, Red 25th Army 1933; Commdr. 689th Regiment, 8th Route Army 1938; Commdr. N.E. 4th Column 1947; Commdr. 40th Army, 4th Field Army 1949; Vice-Commdr., PLA Hunan Mil. Dist. 1949-50; Del. of 4th Field Army to 1st CPPCC 1949; mem. Kwangtung People's Provincial Govt. 1950-54; mem. Hainan Mil. and Admin. Cttee. 1950; Vice-Chair. Joint Chief of Staff Chinese and N. Korean Forces 1951; Chinese Rep. to hold parleys with UN regarding Armistice 1952; Chief of Staff, Chinese People's Volunteers 1952; mem. Nat. Defence Council 1954; Training at Mil. College 1955; alt. mem. 8th Cen. Cttee. 1958; attained rank of Gen. 1960; Chief PLA Fukien Front Units 1960; Deputy Chief PLA Gen. Staff HQ 1965; Chair. Fukien Provincial Revolutionary Cttee. 1968-73; Commdr. Fukien Front Units 1968; mem. CCP 9th Cen. Cttee. 1969; First Sec. Fukien Prov. Cttee. 1971-73; mem. CCP 10th Cen. Cttee. 1973; Commdr. Foochow PLA Mil. Region 1972; Commdr. Lanchow Mil. Region 1973-; mem. Pres. 4th NPC 1975; mem. CCP 11th Cen. Cttee. 1977-. *Address:* People's Republic of China.

HAN SUYIN (Mrs. Elizabeth Comber), M.B., B.S., L.R.C.P., M.R.C.S.; British medical practitioner and author; b. 12 Sept. 1917; ed. Yenching Univ., Peking, Univ. of Brussels, Belgium, Royal Free Hospital, London Univ.; born in China, educated in Peking and Brussels 1935-38; in London 1942-48; employed Queen Mary Hospital, Hong Kong 1948-52, Johore Bahru Hospital, Malaya 1952-55; private medical practice 1955-63; Lecturer in Contemporary Asian Literature, Nanyang Univ., Singapore 1960-63. *Publications:* Destination Chungking 1942, A Many-Splendoured Thing 1952, . . . And the Rain My Drink 1956, The Mountain is Young 1958, Cast but One Shadow 1962, Winter Love 1962, The Four Faces 1963, The Crippled Tree (autobiog.) 1965, A Mortal Flower (autobiog.) 1966, China in the Year 2001 1967, Birdless Summer 1968,

Morning Deluge—Mao Tse-tung and the Chinese Revolution 1972, Wind in the Tower 1976, A Journey to Tibet 1977. *Address:* c/o Jonathan Cape, 30 Bedford Square, London, W.C.1, England.

HANCOCK, John Walker, Jr.; American businessman; b. 11 April 1909, Erie, Kansas; s. of John and Madge (Limbocker) Walker; m. Bernice Wedum 1933; two s. two d.; ed. Long Beach City Coll. and Southwestern Univ.; joined Refining Dept. Hancock Oil Co. 1924, Exec. Vice-Pres. 1947-53, Pres. 1953-58; Pres. and Dir., Walker Devt. Co., Newport Devt. Co.; Vice-Chair. and mem. Advisory Bd., Long Beach State Coll.; Dir. R. M. Pyles Boys Camp, Western Oil and Gas Assn. (Pres. 1956), Independent Petroleum Assn. of America, Calif. Natural Gasoline Assn.; Dir. Farmers and Merchants Bank, Long Beach. *Address:* 4201 North Long Beach Boulevard, Long Beach 7, Calif. (Office); 4681 Virginia Road, Long Beach 90807, Calif., U.S.A. (Home).

HANCOCK, Sir (William) Keith, K.B.E., M.A., LITT.D., F.B.A.; British university professor; b. 26 June 1898, Melbourne, Australia; s. of Rev. William Hancock; m. 1st Theaden Nancy Brocklebank 1925; m. 2nd Marjorie Eyre 1961; ed. Univ. of Melbourne and Balliol Coll., Oxford; Fellow of All Souls Coll. Oxford 1923; Prof. of Modern History, Univ. of Adelaide, Australia 1926-33; Lecturer in Modern History, Balliol Coll., Oxford 1930; Prof. of History Univ. of Birmingham 1933; Chichele Prof. of Econ. History, Univ. of Oxford 1944-49; Supervisor of Civil Histories, War Cabinet Office 1941-46; Prof. Commonwealth Affairs, Univ. of London, and Dir. Inst. of Commonwealth Studies 1949-56; Dir. of Research School of Social Sciences 1957-61; Prof. of History, Australian Nat. Univ., Canberra 1957-65, Univ. Fellow 1966-67, Emer. Prof. 1968-; Govt. expert to examine constitutional questions in Uganda 1954; (Civil) Editor of British Official War Histories; Fellow, Churchill Coll. 1964, St. John's, Cambridge 1971-72; Hon. D.Litt. (Rhodes, Oxford, Cape Town, Birmingham, West Australia); Hon. Litt.D. (Cambridge, Melbourne, A.N.U., Adelaide); Order of Merit, Italy; Foreign Hon. mem. American Acad. of Arts and Science. *Publications:* Ricasoli 1926, Australia 1930, Survey of British Commonwealth Affairs 1937-42, Argument of Empire 1942, Politics in Pitcairn 1947, British War Economy 1949, Wealth of Colonies 1950, Country and Calling 1954, War and Peace in this Century 1961, Smuts: The Sanguine Years 1870-1919 Vol I 1962, Selections from the Smuts Papers Vols. I-IV (edited with Dr. J. van der Poel), Smuts: The Fields of Force 1919-50 Vol. II 1968, Attempting History 1969, Discovering Monaro 1972, Professing History 1976. *Leisure interests:* mountain walking, trout fishing. *Address:* 49 Gellibrand Street, Canberra 2601, A.C.T., Australia. *Telephone:* 4-4593.

HAND, Lloyd N., B.A., LL.B.; American lawyer; b. 31 Jan. 1929, Alton, Ill.; s. of Mr. and Mrs. Nelson T. Hand; m. Lucy Ann Donoghue 1952; two s. three d.; ed. Charles M. Hilby High School, Houston and Univ. of Texas; U.S. Naval Officer 1952-55; Asst. to Senator Lyndon B. Johnson 1957-61; Partner Allbritton, McGee and Hand, Houston 1961-; Chief of Protocol of the U.S.A. 1965; Dir. several corpns. in Los Angeles; mem. Bd. of Dirs. Continental Air Services; Sr. Vice-Pres. TRW Inc.; mem. Bd. of Foreign Scholarships; Dir. Continental Air Lines Inc., MTRW (Mitsubishi Electric Co.—TRW, U.S.); mem. Inst. of Int. Educ. S. Calif. Regional Advisory Cttee.; Dir. Los Angeles World Affairs Council. *Leisure interests:* golf, tennis. *Address:* One Space Park, Redondo Beach, Calif. (Office); 166 Groverton Place, Los Angeles, Calif., U.S.A. (Home). *Telephone:* 536-1017 (Office); 476-6266 (Home).

HANDLER, Philip, M.S., PH.D.; American biochemist and educator; b. 13 Aug. 1917, New York; s. of Jacob and Lena Handler; m. Lucille P. Marcus 1939; two s.; ed. City Coll., City Univ. of New York and Univ. of Illinois; successively Instructor, Asst. Prof., Assoc. Prof., Prof., James B. Duke Prof. of Biochemistry at Duke Univ. School of Medicine 1939-, Chair. of Dept. 1950-69; Full-time Pres. Nat. Acad. of Sciences 1969-; Chair. Nat. Science Bd. 1966-70; mem. Nat. Acad. of Sciences, Nat. Science Bd. 1962-74, American Acad. of Arts and Sciences, American Philosophical Soc., New York Acad. of Sciences, A.A.A.S., American Chemical Soc., American Inst. of Biological Sciences, American Soc. for Cell Biology (Pres. 1958-61), Biochemical Soc. (U.K.), German Acad. of Natural Sciences—Leopoldina, Woods Hole Oceanographic Inst., President's Comm. on Heart Disease, Cancer and Stroke 1964-65, Nat. Advisory Health Council 1958-61, Nat. Advisory Council on Research Facilities and Resources 1963-67; Hon. mem. Swiss Acad. of Natural Sciences, Japanese Biochem. Soc., Nat. Acad. of Medicine of Mexico; Pres. Science Advisory Cttee. 1964-73, American Soc. of Biological Chemists 1962-63; Chair. Fed. of American Socs. of Experimental Biology 1959-65; Council, Smithsonian Inst.; Bd. of Trustees, Rockefeller Univ.; Royal Soc. for Encouragement of Arts, Manufacture and Commerce—Benjamin Franklin Fellow (U.K.); many hon. degrees and lectureships; Great Cross of Honour, with Star (Austria), Commdr., Order of Leopold II (Belgium). *Publications:* Co-author: Principles of Biochemistry; Editor: Biology and the Future of Man; 200 technical papers on metabolism, enzymes, evolution, chemical aspects of disease; several papers on science and society. *Leisure interests:* music, boats, reading. *Address:* National Academy of Sciences, 2101 Constitution Avenue, Washington, D.C. 20418, U.S.A. *Telephone:* 202-389-6231.

HANDS, Terence David (Terry) B.A. (HONS); British theatre director; b. 9 Jan. 1941, Aldershot; s. of Joseph Robald and Luise Bertha (Köhler) Hands; m. 1st Josephine Barstow 1964 (dissolved 1967); m. 2nd Ludmila Mikael (dissolved 1979); one d.; ed. Woking Grammar School, Birmingham Univ., RADA; Founder-Director Everyman Theatre, Liverpool 1964-66; Artistic Director Theatregoround, Royal Shakespeare Co. 1966; Assoc. Dir. RSC 1967; Consultant Dir. Comédie Française 1975; Joint Artistic Dir. RSC 1978-; Chevalier, Ordre des Arts et des Lettres 1973; Meilleure Spectacle de l'Année for Richard II 1972, for Twelfth Night 1976. *Productions:* 22 plays with RSC, 5 with Comédie Française, 2 with Burgtheater, Vienna, one opera at Paris Opera House, one at Covent Garden, London; recording: Murder in the Cathedral 1976; transl. (with Barbara Wright), The Balcony (Genet) 1971, Pleasure and Repentance 1976, Henry V (ed. Sally Beauman) 1976. *Address:* Royal Shakespeare Company, Stratford-upon-Avon, Warwicks., England. *Telephone:* Stratford-upon-Avon 3693.

HANES, Dalibor, JUDR., DR.SC.; Czechoslovak politician; b. 2 Oct. 1914, Tisovec; ed. Faculty of Law, Charles Univ., Prague; Jr. Lawyer, Prešov, Banská Bystrica 1940-44; Govt. Commr. Chamber of Commerce, Bratislava 1945-48; Dir. Regional Admin. for purchase of agricultural products, Bratislava 1948-49, Area Dir. 1949-50; Lecturer, School of Econs., Bratislava 1951-53, Asst. Prof. 1953, Prof. 1962; Chair. House of Nations and Deputy Chair. Fed. Assembly 1969; Chair. Fed. Assembly 1969-71, Deputy-Chair. 1971; Chair. House of Nations Dec. 1971-; mem. Cen. Cttee. CP of Czechoslovakia 1969-, Alt. mem. of Presidium 1970; Chair. Cen. Cttee. of Czechoslovak Soviet Friendship Union 1970-72, 1st Deputy Chair. 1972-; Deputy to Slovak Nat. Council 1968-71, Chair. Czechoslovak Group Inter-Parl. Union 1969-70, Czechoslovak-French Cttee. of Czechoslovak Soc. for Int. Relations 1973-; Order of Labour 1969, Order of Victorious February 1974 and other awards. *Publications:* scientific studies and articles in economic publication, textbooks, essays, reviews, reports and lectures. *Address:* House of Nations, Prague, Czechoslovakia.

HANIEL, Klaus; German business executive; b. 14 Jan. 1916, Munich; m. Johanna von Lutterotti 1949; two s. one d.; ed. Wilhelm-Gymnasium, Munich and in Aachen and Berlin; Chair., Advisory Bd. Gutehoffnungshütte Aktienverein: mem. advisory and man. bds. of numerous other firms. *Address:* 42 Oberhausen-Sterkrade, Ebersbacher Strasse 74, Federal Republic of Germany. *Telephone:* 6-23-90.

HANIF, Rana Muhammad; Pakistani politician; b. 1921, Garh Shanker, E. Punjab; ed. Govt. Coll., Ludhiana; called to the Bar, Lincoln's Inn, London 1955; legal practice, Shahiwal 1955-; mem. Pakistan People's Party 1970-; mem. Nat. Ass. 1970-; Minister of Labour, Works and Local Bodies 1971-74, of Finance, Planning and Devt. 1974-77, of Commerce and Local Govt. March-July 1977, detained July 1977. *Address:* c/o National Assembly, Islamabad, Pakistan.

HANIN, Charles; Belgian lawyer and politician; b. 1914, Marche-en-Famenne, Province of Luxembourg; fmr. lawyer; Social-Christian Senator 1965-; Minister of the Middle Classes 1968-71, of French Culture Jan.-Nov. 1972, of Scientific Policy 1973-74, of Interior April-June 1974. *Address:* c/o Ministère de l'Intérieur, Brussels, Belgium.

HANKE, Brunhilde; German social scientist and politician; b. 23 March 1930, Erfurt; mem. Sozialistische Einheitspartei Deutschlands (SED) 1946-, mem. Cen. Council of Freien Deutschen Jugend (FDJ) 1952-63, Second. Sec. FDJ, Potsdam District 1952-61; Mayor of Potsdam 1961-; mem. Volkskammer 1963-; First Deputy Chair. Cttee. for Business Regulations, Volkskammer 1971; mem. Council of State 1964-; Vaterländischer Verdienstorden in Bronze, and other decorations. *Address:* Staatsrat, Marx-Engels-Platz, Berlin 102, German Democratic Republic.

HANKEL, Wilhelm, Dr.; German banker and professor; b. 10 Jan. 1929, Danzig; s. of Oskar and Jenny (née Schoffmann) Hankel; m. Erika Schork; three d.; ed. Univs. of Mainz and Amsterdam; worked in Cen. Planning Bureau of Netherlands Govt. 1951; subsequently joined Deutsche Bundesbank; served in Ministry of Econ. Co-operation and later in Foreign Ministry 1954-57; with Berliner Bank, Berlin and Kreditanstalt für Wiederaufbau, Frankfurt-am-

Main 1957-68; Dir. Money and Credit Dept., Fed. Ministry of the Economy and Finance 1968-72; Pres. Hessische Landesbank, Girozentrale, Frankfurt-am-Main 1972-74; Lecturer, Univ. of Frankfurt 1966-70, Hon. Prof. 1970-; Monetary Adviser EEC, Brussels. *Publications:* Die zweite Kapitalverteilung 1961, Währungspolitik 1971, Heldensagen der Wirtschaft oder schöne heile Wirtschaftswelt 1975, Der Ausweg aus der Krise 1976, Welthirtschaft 1977; various articles, lectures, etc. *Leisure interests:* literature, music. *Address:* Zeppelin allee 31, 6000 Frankfurt-am-Main, Federal Republic of Germany. *Telephone:* 0611-775001.

HANKEY, 2nd Baron, cr. 1939, of The Chart; **Robert Maurice Alers Hankey,** K.C.M.G., K.C.V.O., B.A.; British diplomatist; b. 4 July 1905, Croydon, Surrey; s. of Rt. Hon. Maurice Pascal Alers, First Baron Hankey of The Chart; m. 1st Frances Bevyl Stuart-Menteth 1930 (died 1957), m. 2nd Joanna Riddall Wright 1962; two s. two d.; ed. Rugby and New Coll., Oxford; travelling Fellow, Queen's Coll., Oxford 1926-27; entered Diplomatic Service 1927; served in Berlin 1927; Paris 1928, Foreign Office, London 1930; Private Sec. to Rt. Hon. Anthony Eden 1933-36, served Warsaw 1936, Bucharest 1939, Cairo 1941, Teheran 1942, Foreign Office 1943-45; Counsellor, British Embassy, Warsaw 1945-46; Head of Northern Dept., Foreign Office 1946-49; British Chargé d'affaires, Madrid 1949-51; Minister to Hungary 1951-53; Amb. to Sweden 1954-60; Perm. Rep. to OEEC and Official Chair. 1960; Perm. Del. to OECD and Chair. of Econ. Policy Cttee. 1961-65; retd. from British Diplomatic Service 1965; Vice-Pres. European Inst. of Business Admin. (INSEAD), Fontainebleau 1962; mem. Int. Council of United World Colls., Council of Int. Baccalaureate Foundation Geneva 1967-76; Dir. Alliance Building Soc. 1970; Pres. Anglo-Swedish Soc. 1969-75. *Leisure interests:* skiing, tennis, music. *Address:* Hethe House, Cowden, Edenbridge, Kent, England. *Telephone:* Cowden 538.

HANLEY, Edward James, B.S., M.B.A.; American steel executive; b. 27 Feb. 1903; ed. Phillips Acad., Massachusetts Inst. of Tech. and Harvard Business School; Gen. Electric Co. 1927-36; Sec. Allegheny Ludlum Steel Corpn. 1936-41, Treas. 1941-46, Vice-Pres. (Finance) 1946-49, Dir. 1947-, Exec. Vice-Pres. 1949-51, Pres. 1951-67, Chief Exec. Officer 1951-68, Chair. 1962-72; Chair. Finance Comm. 1972-; Dir. of other cos. *Address:* Allegheny Ludlum Industries Inc., Oliver Building, Pittsburgh, Pa. 15222, U.S.A.

HANLEY, James; British novelist; b. 1901. *Publications:* Drift 1930, The German Prisoner 1930, Boy 1931, Men in Darkness 1931, Ebb and Flood 1931, Aria and Finale, Captain Bottell 1933, The Furys 1934, The Maelstrom 1935, Stoker Bush 1935, The Secret Journey 1936, Half an Eye 1937, Grey Children 1937, Broken Water (autobiography) 1937, Hollow Sea (novel) 1938, Soldiers Wind (essays) 1938, People are Curious (stories) 1938, Between the Tides 1939, Our Time is Gone 1939, The Ocean 1941, Sailor's Song 1944, No Directions, What Farrar Saw, Emily (novels), Crilley (stories), Collected Stories 1948, Winter Song (novel) 1950, A Walk in the Wilderness (stories) 1950, The Closed Harbour (novel) 1952; Don Quixote Drowned (essays) 1953, The Welsh Sonata (novel) 1954, Levine (novel) 1955, An End and a Beginning (novel) 1958, Say Nothing (play) 1962, Plays One (containing The Inner Journey and The Stone Flower) 1968, The Face of Winter (illustrated poem) 1969, John Cowper Powys: the Man in the Corner 1971, Another World (novel) 1972, A Woman in the Sky (novel) 1973, A Dream Journey (novel) 1976, A Kingdom (novel) 1978. *Leisure interests:* fishing, music. *Address:* c/o David Higham Associates Ltd., 5-8 Lower John Street, Golden Square, London W1R 4HA, England.

HANLEY, John Weller, B.S., M.B.A.; American business executive; b. 11 Jan. 1922, Parkersburg, W. Va.; s. of James P. and Ida May (Ayers) Hanley; m. Mary Jane Reel 1948; two s. one d.; ed. Pennsylvania State Univ., Univ. of Harvard; Engineer, Allegheny Ludlum Steel Corpn. 1942-43; with Procter and Gamble 1947-72, Man. Case Soap Products Div. 1961-63, Vice-Pres. Household Soap Products Div. 1963-67, Corpn. Vice-Pres., Group Exec. 1967-70, Exec. Vice-Pres. 1970-72; Pres. and Chief Exec. Officer, Monsanto Co. 1972-, Chair. 1975-; Hon. D.Eng. (Missouri) 1974. *Leisure interests:* golf, hunting, tennis. *Address:* Monsanto Company, 800 North Lindbergh Boulevard, St. Louis, Mo. 63166 U.S.A. *Telephone:* (314) 694-3003.

HANNAH, John Alfred, B.S.; American government official; b. 9 Oct. 1902, Grand Rapids, Mich.; s. of William S. and Mary E. Malone Hannah; m. Sarah M. Shaw 1938; three s. one d.; ed. Grand Rapids Jr. Coll., Univ. of Michigan and Michigan State Univ.; Sec., State Bd. of Agriculture 1935-41; Pres. Michigan State Univ. 1941-69, Nat. Assen. of State Univs. and Land-Grant Colls. 1948-49, Chair. of its Exec. Cttee. 1949-51; Asst. Sec. of Defense 1953-54; Chair. U.S. Section, Perm. Bd. on Defense, Canada-U.S. 1954-64, U.S. Comm. on Civil Rights 1957-69; Pres. American Council on Educ. 1967-68; Admin. Agency for Int. Devt. 1969-73, Consultant 1973-; Deputy Sec.-Gen. World Food Conf. 1974; Exec. Dir. World Food Council 1975-77; Dir. Fed. Reserve Bank of Detroit 1951-53, 1956-60; mem. Int. Devt. Advisory Bd. 1950-52, Rhodes Scholarship Selection Cttee. 1961-62; numerous awards and hon. degrees. *Address:* World Food Council, Food and Agricultural Organization, Viale della Terme di Caracalla, 001000 Rome, Italy (Office); Dansville, Mich., Box 66, U.S.A. (Home).

HANNIGAN, Judson; American business executive; ed. Dartmouth Coll.; Marine Corps, Second World War; Asst. Chemist, Int. Paper Co. 1948, Man. Hudson River Mill 1961, Asst. Gen. Man. Northern Div. 1962, Vice-Pres. Int. Paper Co. 1964, Dir. 1965, Vice-Pres. Mfg. 1966, mem. Exec. Cttee. 1971, Vice-Pres. Operations 1971, Pres. 1974-. *Address:* International Paper Co., 220 East 42nd Street, New York, N.Y. 10017, U.S.A.

HANNON, John W., Jr., B.A.; American banker; b. 22 April 1922, New York; s. of John W. Hannon and Leonora King Hannon; m. Vivien Gardner 1944; one s. two d.; ed. Montclair, N.J. Public Schools and St. Lawrence Univ.; with Commercial Nat. Bank 1946-51, Bankers Trust Co. after merger with Commercial Nat. Bank 1951, Dir. 1973-, Chair. Exec. Cttee. 1973-75, Pres. 1975-; Dir. Consumers Power Co., Jackson. *Leisure interests:* golf, sailing. *Address:* c/o Bankers Trust Co., 16 Wall Street, New York, N.Y. 10015, U.S.A.

HANNOVER, Georg Wilhelm, Prinz von, DR.IUR.; German educationist; b. 25 March 1915, Brunswick; s. of the Duke and Duchess of Brunswick; m. Princess Sophie of Greece 1946; two s. one d.; ed. Hamelin/Weser High School, Marlborough Coll., Schule Schloss Salem, Univs. of Vienna and Göttingen; Head, Salemer Schulen 1948-59, now mem. Bd. of Dirs.; Chair. Outward Bound Mountain School (Austria); King Edward VII Foundation (German side); mem. Inst. for Town Planning; Hon. Pres. European Assen. of Saving for Building Banks; mem. German Soc. for European Educ.; Pres. Int. Olympic Acad. 1966-70; mem. IOC 1966-71; Nat. Olympic Cttee. for Germany 1966-, Organizing Cttee. for Munich Olympic Games 1966-72; Fellow, Royal Soc. of Arts, London. *Address:* 8166 Neuhaus bei Schliersee, Georgihaus, Upper Bavaria, Federal Republic of Germany.

HANON, Bernard, H.E.C., M.B.A., PH.D.; French business executive; b. 7 Jan. 1932, Bois-Colombes; s. of Max and Anne Hanon; m. Ghislaine de Bragelongne 1965; two s.; ed. Columbia Univ., New York; Dir. of Marketing, Renault Inc., U.S.A. 1959-63; Asst. Prof. of Man. Science, Graduate School of Business, New York Univ. 1963-66; Head of Dept. of Econ. Studies and Programming, Renault 1966-69, Dir. Corp. Planning and Information Systems 1970-75, Dir. of Automotive Operations 1976, Exec. Vice-Pres. in charge of Automotive Operations Sept. 1976-; Ordre national du Mérite. *Address:* Régie Nationale des Usines Renault, 34 quai du Point du Jour, 92109 Boulogne, France. *Telephone:* 609-15-30.

HANSBERGER, Robert, A.A., B.M.E., M.B.A.; American business executive; b. 1 June 1920, Worthington, Minn.; m. Klara Katherine Kille; two d.; ed. Worthington Jr. Coll., Univ. of Minnesota, Harvard Univ. Graduate School of Business Admin.; Torpedo Devt. Officer, Chief Mechanical Design Naval Ordnance Lab., U.S.N.R. 1942-46, Budget Dir., Asst. to Exec., Chief Engineer and Vice-Pres. Container Corpn. of America 1947-54; Pres. and Dir. Western Sales Co. Inc. and Exec. Vice-Pres. and Dir. Western Kraft Corpn. 1954-56; Pres., Chief Exec. and Dir. Boise Payette Lumber Co. 1956-57, Boise Cascade Corpn. 1957-72; Chair. and Chief Exec. Futura Industries Corpn. 1972-; Dir. and fmr. Dir. of numerous cos.; Visiting Prof. Boise State Univ. 1975-; mem. Exec. Cttee. and Vice-Chair. The Business Council; mem. Stanford Research Inst. Advisory Bd.; fmr. mem. President's Comm. on Urban Housing, on the White House Fellows Program, on Population Growth and the American Future, and numerous State Comms.; fmr. Trustee Acad. for Educational Research and Devt., Calif. Inst. of Tech. *Leisure interests:* hunting, fishing, skiing, golf, camping, reading. *Address:* Futura Industries Corporation, Drawer F, Suite 1010, One Capital Center, Boise, Ida., 83702, U.S.A. *Telephone:* 208-336-0150.

HANSEN, Bennett C. K.; Danish shipowner; b. 3 Aug. 1914; business experience with shipping firms in Britain and Germany; partner in shipping firm of C. K. Hansen and Copenhagen Stevedoring Co.; Chair. Steamship Co. Dantank Ltd., C. K. Hansen and Dannebrog Pension Scheme, C. K. Hansen Trust; Dir. Copenhagen Bunker Coal Depot Ltd., and Steamship Co. Dannebrog Ltd. *Address:* Amaliegade 35, Copenhagen, Denmark.

HANSEN, Bent, FIL. DR.; Danish-born Swedish economist; b. 1 Aug. 1920, Ildved, Denmark; s. of Henrik Poulsen and Anna Louise (Pedersen) Hansen; m. Soad Ibrahim Refaat 1962; two s. four d.;

ed. Univs. of Copenhagen and Uppsala; civil servant, State Dept., Copenhagen 1946; Lecturer Uppsala Univ. 1947-48 and 1950-51, Gothenburg 1948-50; Reader, Uppsala 1951-55; Prof. and Head of Konjunkturinst. (Nat. Inst. of Econ. Research), Stockholm 1955-64, Consultant, Inst. of Nat. Planning, Cairo 1962-65; Special Consultant for OECD, Paris 1965-67; Prof. of Political Economy, Stockholm Univ. 1967-68; Prof. of Econs. Univ. of Calif., Berkeley 1967-, Chair. Dept. of Econs. 1977-; Consultant ECAFE Bangkok 1970-73, IMF 1973, U.S. Treasury 1974, Morocco 1976-77, Bogadizi Univ., Istanbul 1978. *Publications:* A Study in the Theory of Inflation 1951, The Economic Theory of Fiscal Policy 1958, Foreign Trade Credits and Exchange Reserves 1961, Development and Economic Policy in the UAR (Egypt) 1965, Lectures in Economic Theory, I and II 1967, Long and Short Term Planning 1967, Fiscal Policy in Seven Countries, OECD, 1969, A Survey of General Equilibrium Systems 1970, Exchange Controls and Development: Egypt 1975. *Address:* University of California, Barrows Hall 250, Berkeley, Calif. (Office); 8336 Terrace Drive, El Cerrito, Calif. 94530, U.S.A. (Home). *Telephone:* 415-525-0704 (Home).

HANSEN, Charles L.; Danish mechanical engineer and businessman; b. 27 Sept. 1891, Elsinore; s. of Charles Christian Hansen; m. Edel Marie Wendelboe Jensen 1960; fmrly. with Elsinore Ship and Engine-building Yard, East Asiatic Co. A/S, Engineer Burmeister and Wain Oil Engine Co. Ltd. Glasgow 1913, Vacuum Oil Co. New York 1915; Chief Engineer Scandinavian Vacuum Oil Co. 1920, European Tech. Man. 1922; Commercial Dir. Vacuum Oil Co. A/S Copenhagen 1926, mem. Bd. 1935; Asst. Man. Socony-Vacuum Oil Co. Inc. New York 1937-47; Exec. Man. 1947-55; Chair. of Bd. of Burmeister and Wain American Corpn. 1949-66; Dir. Socony Bunker Oil Co. Ltd. 1947-56; mem. Dansk Ingeniør Forening 1946, New York Acad. of Sciences 1961; Pres. Rebild Nat. Park Soc. Inc. 1963-69, Hon. mem. 1969-; Knight Cross (1st Class) Order of Dannebrog. *Address:* Villa di San Zeno, 6814 Lamone, Ticino, Switzerland (all mail); and 180 Central Park South, New York 19, N.Y., U.S.A.

HANSEN, Clifford Peter, B.S.; American rancher and politician; b. 16 Oct. 1912, Zenith, Wyo.; s. of Peter and Sylvia (Wood) Hansen; m. Martha Elizabeth Close 1934; one s. one d.; ed. Univ. of Wyoming. Vice-Pres., Jackson State Bank 1953-74; Trustee Univ. of Wyoming 1946-63, Pres. Bd. 1956-63; fmr. Chair. Advisory Cttee. on Livestock Research and Marketing to Sec. of Agriculture; Gov. of Wyoming 1963-66; Senator from Wyoming 1967-79; Sec. Republican Conf. 1977; mem. Wyoming Stock Growers' Assn., Pres. 1953-55; mem. American Nat. Cattlemen's Assn., second Vice-Pres. 1956-57; mem. Exec. Cttee. Nat. Govs. Conf. and Western Govs. Conf. 1965-71; Hon. LL.D. (Wyoming) 1965; Republican; *Leisure interests:* hiking, riding. *Address:* Jackson, Wyo. 83001, U.S.A. (Home).

HANSEN, Guttorm; Norwegian journalist and politician; b. 3 Nov. 1920, Namsos; s. of Håkon Hansen and Agnes Selnes; m. Karin Johanne Johnsen 1947; ed. Tech. School; Journalist, Editor 1945-61; Chair., mem. several municipal and public bds. and cttees.; mem. Exec. Cttee. Labour Party; Deputy mem. Storting (Parl.) 1958-61, mem. 1961-; Vice-Chair. Labour Party Parl. Group 1965-71, Chair. 1971-72; Vice-Chair. Cttee. on Foreign Affairs 1969-71; Pres. Storting 1973-; Chair. Norwegian Atlantic Cttee. 1966-; mem. Bd. European Movement in Norway. *Publications:* NATO, Europe and Norway, The Labour Movement in Nord-Trøndelag, Plan-Perspective-Policy. *Leisure interests:* reading, fishing, skiing. *Address:* Stortinget, Oslo (Office); N. Griegs vei 26, 7800 Namsos, Norway (Home).

HANSEN, Irwin Roy; American businessman; b. 16 Aug. 1913; ed. Univ. of Wisconsin; with Haskins & Sells (C.P.A.'s) 1936-44; joined Minn. Mining & Mfg. Co., St. Paul 1944, Gen. Auditor 1944-50, Asst. Controller 1950-54, Asst. Treas. 1954-57, Treas. 1957-63, Vice-Pres. (Finance) 1963-; Dir. and Vice-Pres. Salisbury Cruises Ltd.; Dir. 3M Foundation; Treas. Big Rock Stone and Material Co., Prehler Electric Insulating Co.; Dir. Business Products Sales Inc., Wonework Lodge Inc., First Nat. Bank of St. Paul. *Address:* 3M Center, St. Paul, Minn. 55101, U.S.A.

HANSEN, Kurt, Prof. DR.ING.; German businessman; b. 11 Jan. 1910, m. Irmi Strähuber 1937; one s. one d.; ed. Technische Hochschule, Munich; with I. G. Farbenindustrie A.G./Farbenfabriken Bayer A.G., Leverkusen 1936-74; Man. Uerdingen Factory, Farbenfabriken Bayer Jan. 1955, Wuppertal-Elberfeld Factory 1956-57, mem. Bd. of Man. Bayer A.G. (fmrly. Farbenfabriken Bayer) 1957-61, Chair. 1961-74, Chair. Supervisory Bd. 1974-; Vice-Pres. Bundesverband der Deutschen Industrie, Cologne; mem. Supervisory Bd. Veba A.G., Commerzbank A.G., Kaufhof A.G., Siemens A.G., Otto Wolff A.G.. *Address:* Bayer A.G., 509 Leverkusen Bayerwerk, Federal Republic of Germany.

HANSON, Howard; American music teacher, conductor and composer; b. 28 Oct. 1896, Wahoo, Nebraska; s. of Hans and Hilma Eckstrom Hanson; m. Margaret Elisabeth Nelson 1946; ed. Luther Coll. Conservatory, Univ. of Nebraska, Inst. of Musical Art of New York and Northwestern Univ., Evanston, Illinois; Prof. of Music and Dean of Conservatory of Fine Arts, Coll. of the Pacific 1919-21; winner of Prix de Rome when Fellow of American Acad. in Rome 1921-24; Dir. Eastman School of Music, Rochester, N.Y. 1924-64; Dir. Inst. of American Music, Univ. of Rochester 1964-; guest conductor of numerous American and foreign symphony orchestras; Fellow Swedish Royal Acad. of Music; mem. Nat. Inst. of Arts and Letters; over thirty Hon. Doctorates; Pulitzer Prize, Peabody Award, Freedom Award, Huntington Hartford Foundation Award, etc. *Works include:* (orchestra) six symphonies, Elegy in Memory of Serge Koussevitzky, Mosaics, Summer Seascape, Concerto for Organ, Strings and Harp; (choral) Songs from "Drum Taps" (after Walt Whitman), The Cherubic Hymn, Song of Democracy, Song of Human Rights; (opera) Merry Mount; (chamber) Quintet for piano and strings, Concerto da Camera for piano and strings, String Quartet, Bold Island Suite, Concerto for Piano and Orchestra, Four Psalms for baritone and strings, Summer Seascapes Nos. 1 and 2, 150th Psalm, 121st Psalm, Dies Natalis, Streams in the Desert, Mystic Trumpeter, Sea Symphony, for chorus and orchestra, New Land, New Covenant, Oratorio; piano music and songs. *Publication:* Harmonic Materials of Modern Music. *Leisure interests:* swimming, boating. *Address:* 362 Oakdale Drive, Rochester, N.Y. 14618, U.S.A. *Telephone:* 271-4495.

HANUMANTHAIYA, Kengal; Indian politician; b. Feb. 1908, Kengeri, Mysore State; m. Mrs. B. Puttamma; two d.; ed. Maharaja Coll., Univ. of Mysore and Poona Law Coll., Bombay Univ.; Del. to Indian Nat. Congress, Madras Session 1927; practised as advocate, then began work in Congress as full-time worker 1936-; mem. Mysore Rep. Assembly 1940-46; Sec. Congress Party, Mysore Rep. Assembly 1940-44, Leader 1944-49; imprisoned seven times during fight for freedom of India; mem. Mysore Constituent Assembly, Constituent Assembly of India 1948, Provisional Parl. of India, Cttee. of Constituent Assembly to draft Model Constitution for Indian States, Cttee. on Abolition of Caste Nomenclatures; mem. Mysore Legis. Assembly 1952-62 and Leader, Congress Party; Chief Minister, Mysore State 1952-56; Chair. Mysore Educ. Reforms Cttee.; fmr. Pres. Post and Telegraph Workers' Union, S. India, Pres. Mil. Eng. Staff Workers' Union, S. Region; M.P. 1962-70; Deputy Leader, Congress Party 1967-68; Minister of Law and Social Welfare 1970-71; Minister of Railways 1971-73; mem. Perm. Court of Arbitration, The Hague June 1970-, All India Council of Tech. Educ., Cttee. on Atomic Energy, Space and Electronics; Chair. Admin. Reforms Comm. 1967-70; awarded Rashtra Rathna title 1973. *Address:* Kengal Krupa, Bellary Road, Bangalore-6, India. *Telephone:* 22324.

HANUSZKIEWICZ, Adam; Polish actor and theatre director; b. 16 June 1924, Lvov, U.S.S.R.; s. of Włodzimierz Hanuszkiewcz and Stanisława Szydłowska; m. 1st Zofia Ryś, one s. two d.; m. 2nd Zofia Kucówna; ed. State High School of Drama, Łódź, and State High School of Drama, Warsaw; début as actor 1945, acted in Cracow, Poznań and Warsaw; début as dir. 1953, directed in Poznań and Warsaw; Artistic Dir. Theatre of Polish TV 1956-63; Dir. and Producer, Teatr Powszechny (Popular Theatre), Warsaw 1963-68, visited, with theatre company, Prague 1964, 1966, Moscow 1965, London, Paris 1966, Helsinki 1967, Bucharest 1968, Stockholm, Oslo 1969; Gen. Man. and Artistic Dir. Teatr Narodowy, Warsaw 1968-, visited Helsinki, Leningrad, Moscow 1973, Berlin 1975, Bremen, Budapest, Moscow 1976; acted in 50 major roles in theatre; directed 30 plays in theatre, 100 television plays; State Prize (First Class) for TV work, City of Warsaw Award for theatre work, Theatre Critics' Prize 1964, Order of Banner of Labour 1974, Ekran Gold Screen TV Award 1978. *Principal roles include:* Hamlet (Hamlet) 1951-59, Tytus (Bérénice) 1962, Prospero (The Tempest) 1963, Raskolnikov (Crime and Punishment) 1964, Don Juan (Don Juan) 1965. *Plays directed include:* Wesele (The Wedding, Wyspiański), Crime and Punishment, Coriolanus, Don Juan, Platonov, The Columbus Boys (Bratny), Kordian (Słowacki), St. Joan 1969, Hamlet 1970, Norwid 1970, Beniowski (Słowacki) 1971, Three Sisters 1971, Twelfth Night 1971, Macbeth 1973, Antigone 1973, The Inspector General 1973, Balladyna (Słowacki) 1974, A Month in the Country 1974, Wacława dzieje (Garczyński) 1974, Kartoteka (Rózewicz) 1974, Don Juan 1975, Wesele (Wyspiański) 1976, Mickiewicz 1976, Maz i żona (Fredro) 1977, Phèdre 1977, Peace 1977, Sen srebrny Salomei (Słowacki) 1977, Wyszedł z domu (Rózewicz) 1978, Dziaby (Mickiewicz) 1978, Białe małzeństow (Rożewicz) 1978, Treny (Kochanowski) 1979. *Address:* Teatr Narodowy, Plac Teatralny 3, 00-077 Warsaw, Poland. *Telephone:* 270-668.

HARA, Shiro; Japanese journalist; b. 15 Feb. 1908, Takayama, Gifu; s. of Sanwemon and Kazuko (Sugishita) Hara; m. Masako Sasada 1938; three d.; ed. Hosei Univ.; reporter, Kokumin Shimbun 1934; joined Yomiuri Shimbun 1936, Deputy Editor-in-Chief 1955, Dir. 1957, Exec. Dir. and Editor-in-Chief 1965-, Exec. Vice-Pres. 1971-; Dir. Hochi Shimbun 1966-; Chair. Nihon Kisha Club (Japan Journalists' Club) 1969-. *Leisure interests:* music, golf. *Address:* Yomiuri Shimbun, 1-7-1, Otemachi, Chiyoda-ku, Tokyo, Japan. *Telephone:* 242-1111.

HARA, Sumio; Japanese banker; b. 7 March 1911, Yokosuka, Kanagawa; s. of Tokuemon and Haru Hara; m. Kazuko Mimura 1939; two s. one d.; ed. Faculty of Law, Tokyo Imperial Univ.; joined Ministry of Finance 1934; Deputy Dir. Budget Bureau 1953-56; Dir.-Gen. of the Tax Bureau 1956-60; Commr. Nat. Tax Admin. Agency 1960-62; Deputy Pres. The Bank of Tokyo Ltd. 1962-65, Pres. 1965-73, Chair. 1973-77, Exec. Adviser 1977-; Dir. Bd. Private Investment Co. for Asia (PICA) S.A., Panama 1969-, Chair. Exec. Cttee. 1975-; mem. External Devt. Co-operation Council (Prime Minister's Office) 1969-, Econ. Council (Prime Minister's Office) 1977-; Vice-Pres. Japan Tariff Assen. 1968-; Chair. Examination Cttee. on Certified Tax Accounts (Nat. Tax Admin. Agency) 1974-; mem. Tobacco Cultivation Council 1974-; Special Adviser to the Pres. Japan Chamber of Commerce and Industry and Tokyo Chamber of Commerce and Industry 1975-, Adviser, Nat. Personnel Authority 1975-; mem. Rockefeller Univ. Council, Trilateral Comm. 1973-, Int. Advisory Bd., Sperry Rand Corpn. New York 1974-. *Leisure interests:* Go, calligraphy, golf. *Address:* Bank of Tokyo Ltd., 1-1, Nihombashi Muromachi 2-chome, Chuo-ku, Tokyo (Office); 26-14, Tsutsujigaoka, Midori-ku, Yokohama, Kanagawa, Japan (Home). *Telephone:* 03-245-1111 (Office); 045-981-7507 (Home).

HARDEN, Donald Benjamin, C.B.E., M.A., PH.D., F.S.A.; British museum official (retd.) b. 8 July 1901, Dublin, Ireland; s. of Rt. Rev. John Mason Harden and Constance Caroline (née Sparrow); m. 1st Cecil Ursula Harriss 1934 (died 1963), one d.; m. 2nd Dorothy May McDonald 1965; ed. Westminster School, Trinity Coll., Cambridge, and Univ. of Michigan; Sr. Asst., Dept. of Humanity, Univ. of Aberdeen 1924-26; Commonwealth Fund Fellow 1926-28; Asst. Keeper, Dept. of Antiquities, Ashmolean Museum, Oxford 1929-45, Keeper 1945-56; Leverhulme Research Fellowship 1953; Vice-Pres. Soc. of Antiquaries, London 1949-53, 1964-67; Pres. Council for British Archaeology 1950-54; Pres. Oxford Architectural and Historical Society 1952-54; Pres. Section H, British Assen. 1955; Dir. London Museum 1956-70; Pres. Museums Assen. 1960-61; Pres. London and Middlesex Archaeological Soc. 1959-64; Royal Archaeological Inst. 1966-69, Int. Assen. for History of Glass 1967-74; Commr., Royal Comm. on Historical Monuments (England) 1963-71; mem. Ancient Monuments Bd. for England 1959-74; mem. governing body British School of Archaeology in Iraq; Pres. Soc. for Medieval Archaeology 1975-77; Hon. mem. German Archaeological Inst.; Gold Medal of Soc. of Antiquaries, London 1977. *Publications:* Roman Glass from Karanis 1936, The Anglo-Saxon Cemetery at Abingdon, Berks. (with E. T. Leeds) 1936; The Phoenicians 1962, Editor Dark-Age Britain 1956, and Medieval Archaeology (annually 1957-73). *Leisure interests:* archaeology and antiquities. *Address:* 12 St. Andrew's Mansions, Dorset Street, London, W1H 3FD, England. *Telephone:* 01-935 5121.

HARDIE, Sir Charles Edgar Mathewes, Kt., C.B.E.; British chartered accountant; b. 10 March 1910; s. of Dr. C. F. and Mrs. R. F. Hardie (née Moore); m. 1st Dorothy Jean Hobson (died 1965), one s. three d.; m. 2nd Mrs. Angela Richli 1966 (dissolved 1975); m. 3rd Rosemary Margaret Harwood 1975; ed. Aldenham School; qualified as Chartered Accountant 1932, Partner, Dixon, Wilson & Co., London 1934-75, Sr. Partner 1975-; War Service (Col.) 1939-44; Chair. BOAC 1969-70, White Fish Authority 1966-73, Metropolitan Estate & Property Corpn. Ltd. 1964-71, British Printing Corpn. Ltd. 1969-76, Fitch Lovell Ltd. 1970-77; Dir. British American & Gen. Trust Ltd., British Printing Corpn. Ltd., Mann Egerton & Co. Ltd., Trust House Forte Ltd., Westminster Property Group Ltd., Royal Bank of Canada; Gov. Aldenham School; Legion of Merit 1944. *Leisure interest:* yachting. *Address:* Gillett House, 55 Basinghall Street, London, EC2V 5EA (Office); The Old School House, Sturminster Newton, Dorset; 207 Cranmer Court, Whiteheads Grove, London, SW3 3HG, England (Homes). *Telephone:* 01-628 4321 (Office).

HARDIN, Clifford Morris, B.S., M.S., DR. AGRIC. ECON.; American business executive; b. 1915, Knightstown, Ind.; s. of J. Alvin and Mabel (May) Hardin; m. Martha Love Wood 1939; five c.; ed. Purdue Univ.; Asst. Prof. of Agricultural Econs., Univ. of Wisconsin 1942-44; Assoc. Prof., Michigan State Coll. 1944-46, Prof. and Chair. Agricultural Econs. Dept. 1946-48, Asst. Dir. Agric. Experimental Station 1948, Dir. 1949-53, Dean of Agriculture 1953-54; Chancellor, Univ. of Nebraska 1954-69; U.S. Sec. of Agriculture 1969-71; Vice-Chair. Ralston Purina Co. 1971-; mem. Exec. Cttee. Council of Higher Educ. of the American Repubs. 1963-69; Trustee, Rockefeller Foundation 1961-69, 1972-, Farm Foundation 1973-, Freedoms Foundation at Valley Forge 1973-; mem. Bd. Nat. Science Foundation 1966-70; mem. Nat. Industrial Energy Council; Trustee American Assembly, Int. Agricultural Devt. Service Inc., Univ. of Nebraska Foundation. *Address:* Ralston Purina Co., Checkerboard Square, St. Louis, Mo. 63188, U.S.A.

HARDING OF PETHERTON, 1st Baron, cr. 1958, of Nether Compton; **Field Marshal John Harding,** G.C.B., C.B.E., D.S.O., M.C.; British army officer; b. 1896, South Petherton; m. Mary G. M. Rooke 1927; one s.; ed. Ilminster Grammar School; served with T.A. and Machine Gun Corps, First World War 1914-1919; Lieut. Somerset Light Infantry 1920, Capt. 1923; Brigade Maj, British Force, Saar Plebiscite; graduated Staff Coll. 1928; Brevet Maj. 1935, Brevet Lieut.-Col. 1938, Lieut.-Col. 1939, Brig. 1942, Maj.-Gen. 1942, Lieut.-Gen. 1943, Gen. 1949; served Second World War 1939-45; G.O.C. Central Mediterranean Forces 1946-47; G.O.C.-in-C. Southern Command 1947-49; C.-in-C. Far East Land Forces 1949-51; C.-in-C. British Army of the Rhine 1951-52; Chief Imperial Gen. Staff 1952-55, Field Marshal 1953; A.D.C. to H.M.The King 1950-52, to H.M. The Queen 1952-53; Gov. and C.-in-C. Cyprus 1955-57; Dir. Nat. Provincial Bank 1957-69, Standard Bank 1965-71, Western Gazette Co. 1958-, Sansmarez Carey and Harris Ltd. 1972-; Gold Stick to H.M. The Queen 1957-64; Dir. The Plessey Co. 1962-75, Deputy Chair. 1964-67, Chair. 1967-70; Chair. Horserace Betting Levy Bd. 1961-67, Williams (Hounslow) Ltd. 1962-71, Assoc. Tees-side Stores Ltd. 1962-68; Hon. D.C.L. (Durham). *Leisure interest:* gardening. *Address:* Lower Farm, Nether Compton, Nr. Sherborne, Dorset, England. *Telephone:* Sherborne 2576.

HARDY, Sir Alister Clavering, Kt., F.R.S., M.A., D.SC., LL.D.; British zoologist; b. 10 Feb. 1896, Nottingham; s. of Richard and Elisabeth H. Hardy; m. Sylvia Lucy Garstang 1927; one s. one d.; ed. Oundle School and Exeter Coll., Oxford; Lieut. and Capt. First World War 1915-19; Royal Engineers Asst. Camouflage Officer 1918; Asst. Naturalist, Fisheries Dept., Ministry of Agriculture and Fisheries 1921-24; Chief Zoologist Discovery Expedition 1924-28; Prof. Zoology and Oceanography, Univ. Coll. of Hull 1928-42; Regius Prof. Natural History, Aberdeen 1942-45; Linacre Prof. Zoology and Comparative Anatomy, Oxford 1945-61, now Prof. Emer.; Dir. Religious Experience Research Unit, Manchester Coll., Oxford 1969-76. *Publications:* The Open Sea: the World of Plankton 1956, The Open Sea: Fish and Fisheries 1959, The Living Stream 1965, The Divine Flame 1966, Great Waters 1967, The Challenge of Chance (with Robert Harvie and Arthur Koestler) 1973, The Biology of God 1975, The Spiritual Nature of Man 1979, and numerous papers on biological oceanography. *Leisure interest:* water-colour sketching. *Address:* 7 Capel Close, Oxford, England. *Telephone:* Oxford 54381.

HARDY, James Daniel, PH.D.; American emeritus professor of environmental physiology: b. 11 Aug. 1904, Georgetown, Tex.; s. of James C. and Lulu Daniel Hardy; m. Augusta Ewing Haugh 1928; two s.; ed. Univ. of Mississippi, Johns Hopkins Univ.; Nat. Research Council Fellow in Physics, Univ. of Mich. 1930-32; Research Fellow, Russell Sage Inst. of Pathology, Cornell Univ. 1932-41; Asst. Prof. of Physiology Medical Coll. 1941-46; Assoc. Prof. 1946-53, Prof. of Physiology, Univ. of Pa. 1953-61; Research Dir. Aviation Medical Acceleration Lab., U.S. Navy, Johnsonville, Pa. 1953-61; Prof. of Physiology, Yale Univ. School of Medicine 1961-73, Prof. Emer. Epidemiology and Physiology 1973-; Dir. John B. Pierce Foundation Lab. 1961-74; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences, Aerospace Medical Assen., American Physical Soc.; Hon. D.Sc. (Kansas City Coll. of Osteopathy and Surgery and Southwestern Univ.), Dr. h.c. (Lyons), Hon. M.A. (Yale); Legion of Merit, Distinguished Service Cross, Purple Heart. *Publications:* about 300 articles in professional journals; Pain Sensations and Reactions (with Wolff and Goodell) 1952, Physiological Problems in Space Exploration 1964; edited Temperature, its Measurement and Control in Science and Industry Vol. III, Pt. 3, Biology and Medicine 1963, Thermal Problems in Aerospace Medicine 1968, Physiological and Behavioral Temperature Regulation (with Gagge and Stolwijk) 1970. *Leisure interests:* fishing, golf, travel. *Address:* John B. Pierce Foundation Laboratory, 290 Congress Avenue, New Haven, Conn. 06519 (Office); 1127 Racebrook Road, Woodbridge, New Haven, Conn. 06525, U.S.A. (Home). *Telephone:* (203) 562-9901 (Office); (203) 387-7986 (Home).

HARDY, Norman Edgar; Canadian business executive; b. 4 Jan. 1917, Toronto; s. of George and Myrtle (Dunsmore) Hardy; m. Dorothy Walter 1939; two d.; ed. Pickering Coll., Newmarket, Ont.;

joined Hardy Cartage 1935; Brewers Warehousing Co. 1948; Man. Labatt's Toronto Brewery 1949; Gen. Man. Ont. Div. 1956, Vice-Pres. 1959; Exec. Vice-Pres. John Labatt Ltd. 1962; Pres. Labatt Breweries of Canada Ltd. 1964; Group Exec. Vice-Pres. John Labatt Ltd. 1968, Pres. 1969-73, Vice-Chair. of Bd. 1973-; Dir. John Labatt Ltd., Brascan Ltd.; Chair. of Bd. Jonlab Investments Ltd. *Address:* John Labatt Ltd., 451 Ridout Street, N., London, Ont. N6A 2P6, Canada.

HARE, Raymond Arthur, A.B.; American diplomatist; b. 3 April 1901, Martinsburg, W. Va.; s. of Frank Earhart Hare and Anna Marte Bowers; m. Julia Cygan 1932; two s.; ed. Grinnell Coll.; Instructor, Robert Coll., Constantinople 1924-27; Exec. Sec. American Chamber of Commerce for Levant 1926-27; Clerk, later Vice-Consul, U.S. Consulate-Gen., Constantinople 1927-28; Language Officer, Paris, 1929, 1931, also Vice-Consul 1931; Sec. in Diplomatic Service and Vice-Consul, Cairo 1931; Vice-Consul, Beirut 1932; Third Sec. and Vice-Consul, Teheran 1933; Dept. of State 1935; Second Sec., Cairo 1939, also at Jeddah 1940-44, also Consul, Cairo 1940; Second Sec., later First Sec. and Consul, London 1944; Dept. of State 1946; Nat. War Coll. 1946-47; Chief, Div. of Middle East, Indian and South Asian Affairs 1947; Deputy Dir. Office of Near East and African Affairs 1948; Deputy Asst. Sec. of State for Near East, S. Asian and African Affairs Oct. 1949; Amb. to Saudi Arabia and Minister to Yemen 1950-53; Amb. to the Lebanon 1953-54; Dir.-Gen. U.S. Foreign Service 1954-56; Amb. to Egypt 1956-58, Amb. to U.A.R. 1958-60, also Minister to Yemen 1959; Deputy Under-Sec. of State (Political Affairs) 1960-61; Amb. to Turkey 1961-65; Asst. Sec. of State (Near Eastern and S. Asian Affairs) 1965-66; Pres. Middle East Inst. 1966-69, Nat. Chair. Middle East Inst. 1969-. *Leisure interests:* Islamic architecture, swimming, walking, golf. *Address:* Middle East Institute, 1761 N Street, N.W., Washington, D.C. 20036 (Office); 3214 39th Street, N.W., Washington, D.C. 20016, U.S.A. (Home). *Telephone:* 202-244-4877.

HAREWOOD, 7th Earl of, cr. 1812; **George Henry Hubert Lascelles;** British musical administrator; b. 7 Feb. 1923, London; s. of the late 6th Earl of Harewood and H.R.H. Princess Mary, The Princess Royal (d. of H.M. King George V); m. 1st Maria Donata Stein 1949 (dissolved 1967), three s. (she m. 1973 the Rt. Hon. Jeremy Thorpe, *q.v.*); m. 2nd Patricia Tuckwell 1967, one s.; ed. Eton Coll. and King's Coll., Cambridge; Capt. Grenadier Guards 1942-46; prisoner of war 1944-45; A.D.C. to Earl of Athlone, Gov.-Gen. of Canada 1945-46; Counsellor of State during absence of the Sovereign 1947, 1954 and 1956; mem. Bd. of Dirs. Royal Opera House, Covent Garden 1951-53, 1969-72, Admin. Exec. 1953-60; Dir.-Gen. Leeds Musical Festival 1958-74; Artistic Dir. Edinburgh Int. Festival 1961-65; Chair. British Council Music Advisory Cttee. 1956-66, Arts Council Music Panel 1966-72; Artistic Adviser New Philharmonia Orchestra, London 1966-76; Pres. English Football Assen. 1964-71, Leeds United Football Club; Chancellor, York Univ. 1963-67; mem. Gen. Advisory Council of BBC 1969-77; Man. Dir. English Nat. Opera 1972-; Editor Opera 1950-53, Kobbé's Complete Opera Book 1954, 1976; Austrian Great Silver Medal of Honour 1959, Lebanese Order of the Cedar 1970. *Leisure interests:* looking at painting, sculpture, football. *Address:* Harewood House, Leeds, Yorkshire, LS17 9LG; 3 Clifton Hill, London, N.W.8, England.

HARHOFF, Preben; Danish shipowner; b. 29 Nov. 1911, Copenhagen; s. of late C. J. C. Harhoff and Rigmor Hansen; m. Else Harhoff 1937; one s. one d.; ed. Copenhagen Univ. and in Germany, England and France; Propr., Sr. partner, C. K. Hansen Ltd. -1968; Dir. Dansk Transatlantisk Rederi Ltd. 1957-65, Chair. 1965-; Dir. and Treas. British Import Union, Copenhagen 1958, Selskabet Orlogsmuseets Venner 1965, Whitbread & Co. (Scandinavia) Ltd. 1965, Harlang and Toksvig Reklamebureau A/S, Diversa A/S; Chair. Int. Farvefabrik A/S, Underberg Import A/S; Hon. Consul-Gen. for Tunisia in Copenhagen 1962-; Council mem. Corps Consulaire; several decorations. *Leisure interests:* fishing, tennis. *Address:* Consultat Général de Tunisie, Strandboulevarden 130, 2100 Copenhagen Ø (Office); Olaf Poulsensvej 12, 2920 Copenhagen-Charlottenlund, Denmark (Home). *Telephone:* 01-62-62-62.

HARKAVY, Rabbi Zvi, (Hirsh Gershon), M.A., TH.D.; Israeli author, bibliographer and librarian; b. 1 Feb. 1908, Yekaterinoslav, Russia; s. of Yehuda-Leib (Lev) Harkavy and Rashe-Raya (Karpas); m. Dina Katz 1944; one s.; ed. Inst. of Admin. Bibliography and Booklore in U.S.S.R., Jerusalem Teachers' Seminary, Haifa Technion, Hebrew Univ. of Jerusalem, Petach Tikva Yeshiva, C.S.R.A.; Leader in Zionist underground in U.S.S.R.; settled in Palestine 1926; schoolmaster and lecturer Jerusalem Teachers' Seminaries 1930-; Dir. Eretz-Yisrael Publishing House 1935-; Chaplain in Israeli Army 1948-49; Dir. Dept. of Refugees in Ministry of War Casualties and later Editor of Ministry of Religious Affairs Monthly 1949-53; Dir. Cen. Rabbinical Library of Israel 1953-73; Editor Hasefer 1954-; mem. Exec. Union of Israel Librarians 1955-68; Visiting Prof. Yeshiva Univ., New York 1959; lectured in U.S.S.R. Acad. of Sciences, Leningrad 1962; Founder, Religious Writers Org., then Chair.; one of the founders of the Religious Academics Org. and fmr. Chair.; an Editor of the General Encyclopaedia and of numerous periodicals and books; del. to numerous congresses abroad; Komemiyut, Mishmar, Hagana and Aleh Medals. *Publications:* Biographies: Rambam, Rabbi Shmuel Strashun, Rabbi Mateth Strashun, S. Rosanes, Rabbi I. M. Pines, Professor Simcha Assaf, A. Harkavy, Rabbi Reuven Katz (Chief Rabbi of Petach Tikva), Prof. S. Klein; research into famous families: The Family Maskil L'eitan, The Family Harkavy; Jews of Salonica, The Jewish Community of Ekaterinoslav; Scepticism of Pascal; The Man, The Plant, The Animal, Inorganic Nature; The Secret of Happy Marriage, Sexual Hygiene from the Religious and Scientific Viewpoint; Judaica in Russian, Karaites during the Holocaust with the Nazis, The Works of A. Harkavy (20 vols.), Autobibliographia 1971, Hebrew Epigraphy in Georgia 1972, Book of Ekaterinoslav-Dnepropetrovsk 1973, Fragment of Sefer-Hamizvot from Anan the Karaite, Efpatoria Manuscript 1975; about 1,300 books, articles and papers on bibliography, Rabbinics, theology, philosophy, philology, history and the Dead Sea Scrolls.

HARKER, David, PH.D.; American scientist; b. 19 Oct. 1906, San Francisco, Calif.; s. of George Asa and Harriette (Buttler) Harker; m. 1st Katherine deSavich 1930 (died 1973), two d.; m. 2nd Deborah Anne Maxwell 1974; ed. Univ. of Calif. (Berkeley), California Inst. of Tech.; Research Asst., Atmospheric Nitrogen Corpn., Solvay, New York 1930-33; Instructor in Chemistry, Johns Hopkins Univ. 1936-39, Assoc. in Chemistry 1939-41; Assoc., Research Lab., Gen. Electric Co., Schenectady, N.Y. 1941-49, Head Crystallography Div. 1949-50; Dir. The Protein Structure Project, Polytechnic Inst. of Brooklyn 1950-59; Adjunct Prof. of Physics 1953-56, Prof. of Crystallography 1956-59; Head Biophysics Dept. Roswell Park Memorial Inst. 1959-76; Research Prof. of Biophysics, State Univ. of N.Y., Buffalo 1960-76, Professorial Lecturer 1959-76; Visiting Prof. of Biophysics, State Univ. Coll. at Buffalo, N.Y. 1966-76; Research Prof., Graduate Faculty, Niagara Univ., Niagara Falls, N.Y. 1968-76; mem. U.S. Nat. Comm. on Crystallography, Nat. Research Council 1951-56, 1958-63, 1964-67, 1968-71, Chair. 1954-55; Research Scientist Emer., Medical Foundation of Buffalo 1977-; Del. to Gen. Ass. Int. Union of Crystallography, Stockholm 1951, Paris 1954, Montreal 1957, Cambridge 1960 and Moscow 1966; fmr. mem. Electron Microscope Soc. of America (Pres. 1946, 1947); mem. American Soc. for X-ray and Electron Diffraction (Pres. 1946), Société Française de Minéralogie et de Crystallographie, American Crystallographic Assen. and A.A.A.S.; mem. Nat. Acad. of Sciences 1977-, American Physical Soc., American Inst. of Chemists; consultant on X-ray diffraction to X-ray Dept. of Gen. Electric Co. 1953-73, to Carborundum Co. 1962-75; Advisory Editor, Trans., Russian Journal Crystallography 1958-59; Dir. Center for Crystallographic Research, Roswell Park Div. of Health Research Inc., Buffalo 1965-76; Assoc. Prof., Faculty of Science, Univ. of Bordeaux Jan.-July 1970; mem. Advisory Bd. Russian Trans., American Inst. Physics 1959-78; Chair. Cttee. at several Int. Congresses of Crystallography 1968, 1969; three national awards. *Publications:* numerous scientific papers, book reviews and contributions in journals. *Leisure interests:* rifle and pistol shooting, reading detective stories. *Address:* Medical Foundation of Buffalo Inc., 73 High Street, Buffalo, N.Y. 14203 (Office); 56 Lexington Avenue, Buffalo, N.Y. 14222, U.S.A. (Home). *Telephone:* 886-2666.

HARKORT, Peter Guenther, DR.RER.POL.; German diplomatist; b. 1 Sept. 1905, Herdecke, Ruhr; s. of Peter Hermann Harkort and Elisabeth Funcke; m. Irmgard Graeve 1935; two s.; ed. Städt. Real-Gymnasium Hagen i W., Univs. of Heidelberg, Berlin, Bonn, Kiel; Reich Statistical Office, Reich Ministry of Nat. Econ.; Württemberg-Baden Ministry of Nat. Economy; bi-zonal Admin. of Nat. Economy; German Bureau for Peace Questions; Rep. to ECA, Washington 1949-52; Foreign Service 1952-70, Ministerial Dir., Head of Commercial Dept., Bonn 1958-61; Amb. and Perm. Rep. to the EEC and EURATOM, Brussels 1961-65; Ministerial Dir., Head, Dept. Commerce and Devt., Bonn 1965-69, State Sec. 1969-70. *Leisure interest:* books. *Address:* Mecklenburgerstr. 3, 53 Bonn-Bad Godesberg, Federal Republic of Germany. *Telephone:* Bonn 37-57-33.

HARLAND, Sydney Cross, D.SC., F.R.S., F.R.S.E., F.L.S.; British agricultural consultant; b. 19 June 1891, Snainton, Scarborough, Yorks.; s. of Erasmus Harland and Eliza Harland; m. 1st Emily Cameron 1915, two d.; m. 2nd Olive Sylvia Atteck 1934, one s.; ed. King's Coll., London Univ.; Head Botanical Dept. British Cotton Industry Research Assen. Manchester 1920-23; Prof. of Botany

Imperial Coll. of Tropical Agriculture, Trinidad 1923-26; Chief Geneticist Empire Cotton Growing Corpn. 1926-35; gen. adviser Brazilian State Cotton Industry 1935-39; Dir. Institute of Cotton Genetics. Nat. Agricultural Soc. Peru 1939-50; Harrison Prof. of Botany, Univ. of Manchester 1950-58, Emer. 1958-; mem. Agric. Research Council 1950; Hon. Fellow Textile Inst.; Fellow, New England Inst. of Medical Research, Botanical Soc. of Edinburgh; Hon. M.Sc. (Manchester), Hon. D.Sc. (West Indies). *Leisure interests:* gardening, travel, writing, music. *Address:* Cliff Grange, Snainton, Scarborough, Yorks., England; Correo Ñaña, Carretera Central, Peru. *Telephone:* Scarborough 85549.

HARLECH, 5th Baron (cr. 1876); **William David Ormsby Gore,** P.C., K.C.M.G.; British diplomatist; b. 20 May 1918; s. of 4th Baron Harlech, K.G., P.C., G.C.M.G. and Lady Beatrice Cecil; m. 1st Sylvia Lloyd Thomas 1940 (died 1967), 2nd Pamela Colin 1969; one s. four d.; ed. Eton and New Coll., Oxford; War Service 1939-45; Conservative M.P. 1950-61; Parl. Private Sec. to Minister of State for Foreign Affairs 1951-56; Parl. Under-Sec. of State for Foreign Affairs 1956-57; Minister of State for Foreign Affairs 1957-61; Amb. to U.S.A. 1961-65; Deputy Leader Conservative Party, House of Lords 1966-67; Chair. Harlech TV 1967-; Pres. British Bd. of Film Censors 1965-; Chair. Kennedy Memorial Trust; Chair. European Movement 1969-75; Pres. The Pilgrims of G.B. 1965-77; Pres. Shelter Campaign for the Homeless 1969-78; Trustee, Tate Gallery 1971-78; Deputy Chair. British Comm. on Rhodesian Opinion 1972; Chair. Pilgrim Trust 1974-79; Chair. Nat. Comm. for Electoral Reform 1976-; Dir. Morgan Crucible Co., Bank of Wales; Hon. LL.D. (New York, Farleigh Dickinson and Manchester), Hon. D.C.L. (Pittsburgh), Hon. D.Iur. (Brown Univ., Providence, and Coll. of William and Mary, Williamsburg). *Publication:* Must the West Decline? 1966. *Address:* Glyn, Talsarnau, Merioneth, N. Wales; 14A Ladbroke Road, London, W.11, England. *Telephone:* Harlech 338 and 01-229 6701.

HARLEM, Gudmund, M.D., DR.MED.; Norwegian doctor and politician; b. 24 July 1917, Oslo; s. of late Gudmund Harlem and late Olga Harlem; m. Inga Brynolf 1938; two s. two d.; ed. Medical School, Oslo Univ.; Asst. Physician Hygiene Inst., Oslo Univ. 1946-48; Sr. Physician State Rehabilitation Centre, Oslo 1953-; studied rehabilitation in U.K. 1947, 1948 and 1950, in U.S.A. 1949-50; as UN Tech. Expert on Rehabilitation went on missions to Egypt 1954, Greece and Italy 1955; Deputy Chair. Oslo Labour Party 1952-66, mem. Cen. Cttee. Labour Party 1953-57; mem. Norwegian Nat. Research Council 1949-57; Chair. Rehabilitation Council 1955-57; Minister of Health and Social Affairs 1955-61, of Defence 1961-65; Resident, Oslo Univ. Hosp. 1965-66; Pres. Int. Soc. for Rehabilitation of the Disabled 1966-69; Dir. State Rehabilitation Inst. 1966-77; Prof. Univ. of Trondheim 1977-; Chair. Bd. of Research on Environmental Contaminations; Lasker Award 1960; Labour. *Publication:* Studies in the Relation between Impairment, Disability and Dependency 1976. *Leisure interests:* skiing, sailing. *Address:* 7034 Trondheim NTH, Norway. *Telephone:* 075 93571.

HARLOW, Bryce Nathaniel; American government official; b. 11 Aug. 1916, Oklahoma City; ed. Univs. of Oklahoma and Texas; Graduate Asst., Univ. of Texas 1937; Asst. Librarian, House of Reps. 1938-40; mem. Congress 1940-41; Special Asst., White House Staff, Admin. Asst., Special Asst., Deputy Asst. to Pres. 1953-61; Dir. Govt. Relations, Procter and Gamble Mfg. Co. 1961-68, Vice-Pres. 1971-73, 1974-; Counsellor with Cabinet rank 1969-70; Pres. Counsellor without Portfolio 1973-74. *Address:* Procter and Gamble Manufacturing Co. Washington, D.C. 20013, U.S.A.

HARLOW, Harry Frederick, B.A., PH.D.; American professor of psychology; b. 31 Oct. 1905, Fairfield, Ia.; s. of Lon Israel and Mabel (Rock) Israel; m. 1st Clara Mears 1932 (divorced 1946), remarried 1972; m. 2nd Margaret Kuenne 1948 (deceased 1971); three s. one d.; ed. Stanford Univ.; mem. staff, Univ. of Wis. 1930- (two leaves of absence); Carnegie Fellow in Anthropology, Columbia Univ. 1939-40; Head of Human Resources Branch, Dept. of Army 1950-52; Prof. of Psychology, Univ. of Wis. 1944-74, Prof. Emer. 1974-; Dir. Primate Lab., Univ. of Wis. 1956-74, Dir. Regional Primate Research Center, Univ. of Wis. 1961-71; Research Prof. of Psychology, Univ. of Ariz. 1974-; Pres. Mid-western Psychological Assen. 1947-48, Div. of Experimental Psychologists of American Psychological Assen. 1958-59; Editor Journal of Comparative and Physiological Psychology 1951-63; Pres. Div. of Comparative and Physiological Psychology, American Psychological Assen. 1965; mem. Nat. Acad. of Sciences, American Philosophical Soc., Nat. Acad. of Arts and Sciences, etc.; Howard Crosby Warren Medal 1956, Distinguished Psychologist Award 1960, Nat. Medal of Science 1967, Gold Medal Award, American Psychological Foundation 1973, Annual Award of the Soc. for Scientific Study of Sex 1974, Third Int. Kittay Award 1974, Von Giesen Award 1975. *Publications:* Co-author several books 1930-; more than 300 journal articles. *Address:* University of Wisconsin Primate Laboratory, 22 N. Charter Street, Madison, Wis. 53706 (Office); 672 Roller Coaster Road, Tucson, Ariz. 85704, U.S.A. (Home). *Telephone:* (608) 263-3550 (Office); (602) 888-6548 (Home).

HARMAN, Avraham, B.A.; Israeli diplomatist; b. 1914, London; ed. Oxford Univ.; emigrated to Israel 1938; held posts in Jewish Agency 1938-48; Deputy Dir. Govt. Information Bureau 1948-49; Consul-Gen. Montreal 1949-50, New York, and Counsellor Del. to UN 1950-53; Consul-Gen. in New York 1953-55; Asst. Dir.-Gen. Ministry of Foreign Affairs 1955-56; Dir. Information Dept. Jewish Agency 1957-59; Amb. to the U.S.A. 1959-68; Pres. Hebrew Univ. of Jerusalem 1968-. *Address:* Hebrew University of Jerusalem, Israel.

HARMEL, Pierre Charles José Marie, D. en D.; Belgian university professor and politician; b. 16 March 1911, Uccle, Brussels; s. of Charles Harmel and Eusebie André; m. Marie-Claire van Gehuchten 1946; four s. two d.; Prof., Faculty of Law, Univ. of Liège 1947-; mem. and fmr. Vice-Pres. Chamber of Reps.; Minister of Public Instruction and Fine Arts 1950-54; Minister of Justice 1958; Minister of Cultural Affairs 1959-60; Minister of Admin. 1960-61; Prime Minister 1965-66; Minister of Foreign Affairs 1966-73; co-opted Senator 1971; Minister of State Feb. 1973-; Pres. of Senate 1973-77; Croix de guerre avec palmes 1940. *Publications:* Principes non bis in idem et les droits d'enregistrement 1942, La famille et l'impôt en Belgique 1944, Culture et profession 1944, Les sources et la nature de la responsabilité civile des notaires, en droit Belge de 1830 à 1962 1964, Organisation et déontologie du notariat 1977. *Address:* 8 avenue de l'Horizon, 1150 Brussels, Belgium. *Telephone:* 762-4680.

HARMER, Sir Frederic Evelyn, Kt., C.M.G.; British shipping executive (retd.); b. 3 Nov. 1905, Cambridge; s. of late Sir Sidney F. Harmer and late Lady Laura Russell Harmer (née Howell); m. 1st Barbara Susan Hamilton 1931 (died 1972), one s. three d.; m. 2nd Daphne Shelton Agar 1973; ed. Eton and King's Coll., Cambridge; Treasury 1939, Temp. Asst. Sec. 1943-45, served Washington 1944, 1945; Dir. Peninsular and Orient Steam Navigation Co. 1955-57, Deputy Chair. 1957-70; Govt. Dir. British Petroleum Co. Ltd. 1952-70; Dir. Nat. Westminster Bank Ltd.; Vice-Chair. of Govs., London School of Econs. until Dec. 1969; Chair. Int. Chamber of Shipping until 1971. *Leisure interests:* sailing, golf. *Address:* Tiggins Field, Kelsale, Saxmundham, Suffolk, England. *Telephone:* Saxmundham 3156.

HARNICK, Sheldon Mayer; American lyricist; b. 30 April 1924, Chicago; ed. Northwestern Univ.; wrote songs for univ. musicals; contributor to revues: New Faces of 1952, Two's Company 1953, John Murray Anderson's Almanac 1954, The Shoestring Revue 1955, The Littlest Revue 1956, Shoestring 1957 1957; with composer Jerry Bock (*q.v.*) wrote shows Body Beautiful 1958, Fiorello 1959 (Pulitzer Prize), Tenderloin 1960, Smiling the Boy Fell Dead (with David Baker) 1961, She Loves Me 1963, Fiddler on the Roof 1964, The Apple Tree 1966, The Rothschilds 1970, Captain Jinks of the Horse Marines (opera, with Jack Beeson) 1975, Rex (with Richard Rogers) 1976. *Address:* c/o David J. Cogan, 350 Fifth Avenue, New York, N.Y. 10001, U.S.A.

HARNONCOURT, Nikolaus; Austrian musician and conductor; b. 6 Dec. 1929, Berlin; s. of Eberhard and Ladislaja (née Meran) Harnoncourt; m. Alice Hoffelner 1953; three s. one d.; ed. Matura Gymnasium, Graz, Acad. of Music, Vienna; mem. of Vienna Symphony Orchestra 1952-69; Prof., Mozarteum and Inst. of Musicology, Univ. of Salzburg 1972-; founder mem. of Concentus Musicus, Ensemble for Ancient Music 1954; Conductor, Zürich Opera and Amsterdam Concertgebouw Orkester; has given numerous concerts in Europe, Australia and the U.S.A.: awards for recordings include Prix Mondiale du Disque, Grand Prix du Disque, Deutscher Schallplattenpreis. *Leisure interests:* cultural history, woodwork. *Address:* 38 Piaristangasse, A-1080 Vienna, Austria.

HARPER, Heather, C.B.E.; British soprano; b. 8 May 1930, Belfast; d. of Hugh and Mary Eliza Harper; m. 2nd Eduardo J. Benarroch 1973; ed. Trinity Coll. of Music, London; created soprano role in Britten's War Requiem, Coventry Cathedral 1962; toured U.S.A. with BBC Symphony Orchestra 1965, U.S.S.R. 1967, soloist opening concerts at the Maltings, Snape 1967, Queen Elizabeth Hall 1967; annual concert and opera tours U.S.A. 1967-; also concerts in Asia, Middle East, Australia, European Music Festivals, S. America; principal roles at Covent Garden, Bayreuth Festival, La Scala (Milan), Teatro Colón (Buenos Aires), Edinburgh Festival, Glyndebourne, Sadler's Wells, Metropolitan Opera House (New York), San Francisco, Frankfurt; renowned performances of Arabella, Ariadne, Chrysothemis, Kaiserin, Marschallin (Richard

Strauss); TV roles include Ellen Orford (Peter Grimes), Mrs. Coyle (Owen Wingrave), Ilia (Idomeneo); recordings include Les Illuminations (Britten), Symphony No. 8 (Mahler), Don Giovanni (Mozart), Requiem (Verdi) and Missa Solemnis (Beethoven), Seven Early Songs (Berg); Hon. mem. Royal Acad. of Music, Hon. D.Mus. (Queen's Univ.); Edison Award 1971. *Leisure interests:* gardening, painting, cooking, swimming, tennis. *Address:* c/o Harrison-Parrott Ltd., 22 Hillgate Street, London, W.8, England. *Telephone:* 01-229 9166.

HARPER, John D.; American electrical engineer and business executive; b. 6 April 1910, Louisville, Tenn.; s. of Lafayette R. Harper and Mary A. Collier; m. Samma McCrary 1937; three s.; ed. High School and Univ. of Tennessee; Aluminum Co. of America (ALCOA) 1933-, Asst. Dist. Power Man. 1943-51, Man. Rockdale Works 1951-55, Asst. Gen. Man. Smelting Div., Pittsburgh 1955-56, Gen. Man. Smelting Div. 1956-60, Vice-Pres. (Smelting and Fabricating) 1960-62, Vice-Pres. (Production) 1962, Exec. Vice-Pres. 1962-63, Dir. 1962, Pres. 1963-70, Chair. 1970-75, Chief Exec. Officer 1965-75, Chair. Exec. Cttee. 1966-78; mem. Aluminium Assen.; fmr. Chair. The Business Round Table; Dir. Communications Satellite Corpn., Metropolitan Life Insurance Co., Procter & Gamble Co., Nat. Alliance of Businessmen, American European Assocs., AEA Investors, Crutcher Resources Corpn., Paribas North American Inc., Coke Investors Inc., Coke Enterprises Inc. etc.; fmr. Chair. Int. primary Aluminium Inst., Cttee. for Econ. Devt.; Dir. Crutcher Resources Corpn.; mem. The Business Council, Univ. of Tennessee Devt. Bd., President's Labor-Man. Cttee., Advisory Cttee., Woodrow Wilson Int. School for Scholars, Public Oversight Bd. of American Inst. of Certified Public Accountants; Founding mem. Rockefeller Univ. Council; Nat. Exec. Cttee. Boy Scouts of America; Trustee Carnegie Mellon Univ.; Fellow, American Soc. of Mechanical Engineers, American Inst. of Electrical Engineers; mem. Engineers' Soc. of Western Pa., Nat. Acad. of Eng.; distinguished life mem. American Soc. for Metals; several hon. degrees; Nathan W. Dougherty Award of Univ. of Tenn., Professional Engineers' Distinguished Service Award of Pa. Soc. of Professional Engineers 1966, Gold Medal, Pa. Soc. 1970, Knight's Cross, Royal Order of St. Olav. *Leisure interests:* shooting (birds), golf. *Address:* Aluminum Company of America, 1501 Alcoa Building, Pittsburgh, Pa. 15219 (Office); 880 Old Hickory Road, Pittsburgh, Pa. 15243, U.S.A. (Home).

HARRAR, J. GEORGE, A.B., M.S., PH.D.; American foundation executive; b. 2 Dec. 1906, Painesville, Ohio; s. of Elwood Scott and Lucetta Sterner; m. Georgetta Steese 1930; two d.; ed. Oberlin Coll., Ohio, Iowa State Univ. and Univ. of Minnesota; Prof. of Biology, Univ. of Puerto Rico 1929-30, Head of Dept. 1930-33; Instructor, Plant Pathology, Univ. of Minn. 1934-35; Asst. Prof. of Biology, Virginia Polytechnic Inst. 1935-37, Assoc. Prof. 1937-41, Prof. 1941; Prof. and Head, Dept. of Plant Pathology, Wash. State Univ. 1941-42; Field Dir. for Agriculture, Rockefeller Foundation (Mexico) 1943-52; Deputy Dir. for Agriculture, Rockefeller Foundation (New York) 1952-55, Dir. 1955-58; Vice-Pres. Rockefeller Foundation 1959-61, Trustee and Pres. 1961-72, Pres. Emer. and Life Fellow 1972-; Andrew D. White Prof.-at-Large, Cornell Univ. 1971-77; mem. Bd. of Trustees, Oberlin Coll. Ohio 1962-72, The Foundation Center 1969-75; Chair. Nat. Advisory Council, Monell Chemical Senses Center, Univ. of Pennsylvania 1968-, Int. Agricultural Devt. Service 1975-; Chair. Exec. Cttee., The Nutrition Foundation 1972-, Gov. Council, Rockefeller Archive Center 1973-; Dir. Campbell Soup Co., Int. Flavors & Fragrances, Dreyfus Third Century Fund, Merck & Co. Inc., Viacom Int. Inc.: Fellow, American Phytopathological Soc., A.A.A.S., Royal Soc. of Arts, London 1972, Trustee, Draper World Population Fund; mem. American Acad. of Arts and Sciences, American Philosophical Soc., Comm. on U.S.–Latin-American Relations 1974-, Nat. Acad. of Arts and Sciences, Italian Nat. Acad. of Agriculture, Nat. Acad. of Sciences, etc.; numerous hon. degrees; Hon. Prof. (Univ. of San Carlos, Guatemala and Catholic Univ. of Chile); Hon. D.Sc. (Ripon Coll.) 1975; Order of the Golden Heart, Philippines 1964, Elvin Charles Stakman Award, Univ. of Minnesota 1969, W. O. Atwater Medal 1974, Americas Award 1974, Underwood-Prescott Memorial Award 1975, Hon. Chair. Population Crisis Cttee. 1973-; numerous other awards and honours. *Publications:* (with E. S. Harrar) Guide to Southern Trees 1946, (with E. C. Stakman) Principles of Plant Pathology 1957, Strategy for the Conquest of Hunger 1963, and numerous scientific papers. *Leisure interests:* reading, sports. *Address:* 125 Puritan Drive, Scarsdale, N.Y. 10583, U.S.A.

HARRIMAN, Averell (*see* Harriman, William Averell).

HARRIMAN, Leslie Oriseweyinmi; Nigerian diplomatist; b. 9 July 1930, Warri; ed. Govt. School, Benin, Edo Coll., Benin, Govt. Coll., Ibadan, Univ. Coll., Ibadan, Pembroke Coll., Oxford, and Imperial Defence Coll., London; Man., Unilever Lagos 1955-58; Second Sec. British Embassy, Spain 1958-59; Counsellor and Acting High Commr. for Nigeria in Ghana 1961-63; Deputy Perm. Sec. Ministry of External Affairs 1965-66; High Commr. to Uganda 1966-69, to Kenya 1966-70; Amb. to France 1970-75, also accred. to Tunisia and Perm. Del. to UNESCO 1970-75; Amb. and Perm. Rep. to UN Sept. 1975-. *Address:* Permanent Mission of Nigeria to the United Nations, 757 Third Avenue, 20th Floor, New York N.Y. 10017, U.S.A.

HARRIMAN, (William) Averell; American industrialist, banker, diplomatist, and government official; b. 15 Nov. 1891; m.; ed. Groton School and Yale Univ.; Vice-Pres. in charge of Purchases and Supplies Union Pacific R.R. Co. 1915-17; Chair. of Bd. Merchant Shipbuilding Corpn. 1917-25; Chair. of Bd. W. A. Harriman & Co. Inc. 1920-30; partner Brown Brothers, Harriman & Co. (merger) Jan. 1931-; Chair. Exec. Cttee. Illinois Central R.R. Co. 1931-42, Dir. 1915-46; Dir. Union Pacific R.R. Co. 1913-46, Chair. of Bd. 1932-46; Dir. Guaranty Trust Co. of New York 1915-40; at one time Dir. of Western Union Telegraph Co. and Weekly Publications Inc. (publishers of Newsweek Magazine); mem. N.Y. State Fair Comm. 1915-17; Admin. Div. II N.R.A. Jan.-March 1934; Special Asst. Admin. March-May 1934; Admin. Officer 1934-35; mem. Business Advisory Council Dept. of Commerce 1933, Chair. 1937-40; served with Office of Production Man. 1940-41; special rep. of Pres. Roosevelt in U.K. with rank of Minister March 1941, U.S.S.R. with rank of Amb. Aug. 1941; rep. in London of Combined Shipping Adjustment Bd. Feb. 1942; mem. London Combined Production and Resources Bd. July 1942; Amb. to U.S.S.R. 1943-46; Amb. to U.K. April-Oct. 1946; U.S. Sec. of Commerce 1946-48; U.S. Special Rep. in Europe for E.C.A. 1948-50; Special Asst. to the Pres. 1950-51; Dir. for Mutual Security 1951-53; Gov. of New York 1955-59; Amb.-at-Large Jan.-Nov. 1961, 1965-69; Asst. Sec. of State for Far Eastern Affairs 1961-63, Under-Sec. for Political Affairs 1963-65; Chief American negotiator Nuclear Test Ban Treaty, Moscow 1963; took part in negotiations on war in Viet-Nam, Paris 1968-69; Hon. LL.D. (New York); Democrat. *Publications:* Peace with Russia? 1960, America and Russia in a Changing World 1971, Special Envoy to Churchill and Stalin, 1941-46 1975-76 (with Elie Abel). *Address:* 3038 N Street, Washington, D.C. 20007, U.S.A.

HARRINGTON, Fred Harvey, PH.D.; American historian and educational administrator; b. 24 June 1912, Watertown, N.Y.; s. of Arthur William and Elsie (Sutton) Harrington; m. Anna Howes 1935; one s. four d.; ed. Cornell and New York Univs.; Instructor in History, Washington Square Coll. of New York Univ. 1936-37, Univ. of Wis. 1937-39, Asst. Prof. 1939-40; Prof. and Chair. of History and Political Science, Univ. of Ark. 1940-44; Assoc. Prof. of History, Univ. of Wis. 1944-47, Prof. 1947-70, Chair. of Dept. 1952-55, Special Asst. to Pres. 1956-58, Vice-Pres. of Academic Affairs 1958-62, Vice-Pres. 1962, Pres. 1962-70, Vilas Research Prof. of American Diplomatic History 1970-; Pres. Nat. Assen. State Univs. and Land Grant Colls. 1968-69; Dir. Nat. Assen. Educational Broadcasters 1965-68; Dir. American Council of Educ. 1966-68; Dir. Study of Int. Linkages of Higher Educ. 1976-78; Program Adviser to Ford Foundation in India 1971-77; Visiting Prof. W. Va. Univ. 1942, Cornell Univ. 1944, Univ. of Pa. 1949, Univ. of Colo. 1951, Oxford Univ. 1955, Univ. of Kyoto (Japan) 1962; Frederic Courtland Penfield Fellow in Diplomacy and Int. Relations, New York Univ. 1933-36; Fellow John Simon Guggenheim Memorial Foundation 1943-44; Ford Foundation Faculty Fellow 1955-56; Hon. LL.D. (New York, Drake, Loyola and Calif.), Hon. L.H.D. (Maine, De Paul and Miami and Northland Coll., Wis.), Hon. Litt.D. (Ife, Nigeria). *Publications:* God, Mammon and the Japanese: Dr. Horace N. Allen and Korean-American Relations (1884-1905) 1944, Fighting Politician: Major-General N. P. Banks 1948, An American History (2 vols., with Curti and Shryock and Cochran) 1950, Hanging Judge, Isaac C. Parker and the Indian Frontier 1951, A History of American Civilization 1953, The Future of Adult Education: New Responsibilities for Colleges and Universities 1977. *Address:* Van Hise Hall, University of Wisconsin, Madison, Wis. 53706, U.S.A. *Telephone:* 608-262-3682.

HARRIS, Marshal of the R.A.F. Sir Arthur Travers, Bt., G.C.B., O.B.E., A.F.C.; British officer; b. 13 April 1892, Cheltenham, Glos.; s. of George S. T. Harris and Caroline M. (née Elliot); m. 1st Barbara K. Money 1916, one s. two d.; m. 2nd Thérèse Hearne 1938, one d.; joined 1st Rhodesian Regt. 1914, served S.W. Africa R.F.C. 1915, served First World War and with R.A.F. France, India, Iraq, Middle East; Head, R.A.F. mission to U.S.A. and Canada 1938; Air Officer Commanding R.A.F. Palestine and Transjordan 1938-39; Air Officer Commanding No. 5 Group 1939-40; Deputy Chief of Air Staff 1940-41; Head R.A.F. Del. U.S.A. 1941, and

R.A.F. mem. Joint Chiefs of Staff; Air Officer Commanding-in-Chief Bomber Command 1942-45; Man. Dir. South African Marine Corpn. 1946-53; Hon. LL.D. (Liverpool); awards include Order of Suvorov (U.S.S.R.) 1st Class 1944, Grand Cross Polonia Restituta (Poland), Chief Commdr., Legion of Merit (U.S.A.), D.S.M. (U.S.A.), Grand Cross Order of Southern Cross (Brazil), Grand Officier, Légion d'honneur, Croix de guerre avec palme, Freeman of Honiton 1945, Chipping Wycombe 1945, of the City of London 1978. *Publication:* Bomber Offensive 1946. *Address:* The Ferry House, Goring-on-Thames, RG8 9DX, England.

HARRIS, Chauncy Dennison, PH.D., D.LITT.; American geographer; b. 31 Jan. 1914, Logan, Utah; s. of Franklin S. and Estella S. Harris; m. Edith Young 1940; one d.; ed. Brigham Young Univ., Oxford and Chicago Univs.; Prof. of Geography, Univ. of Chicago 1947-, Samuel N. Harper Distinguished Service Prof. 1969, Dean, Graduate Div. of Social Sciences 1954-60; Dir. Centre for Int. Studies 1966-; Asst. to the Pres. 1973-75, Vice-Pres. for Academic Resources 1975-; mem. Bd. of Dirs., Social Science Research Council 1959-70, Vice-Chair. 1963-65, mem. Cttee. on Programs and Policy 1959-67, Exec. Cttee. 1967-70; mem. Exec. Cttee., Nat. Research Council Div. of Behavioural Sciences 1967-70; mem. Int. Research and Exchanges Bd. 1968-71; mem. Exec. Cttee. ICSU 1969-72; Del. 17th Gen. Conf. UNESCO, Paris 1972; mem. Int. Geog. Union, Vice-Pres. 1956-64, Sec.-Gen. 1968-76; mem. Asscn. of American Geographers (Pres. 1957), American Assen. for Advancement of Slavic Studies (Pres. 1962), American Geographical Soc. (Vice-Pres. 1969-74); Alexander Csoma de Körösi Memorial Medal, Hungarian Geographical Soc. 1971; Hon. mem. Royal Geographical Soc. and geographical socs. of Paris, Berlin, Frankfurt, Rome, Florence and Warsaw; D.Econ. h.c. (Catholic Univ., Chile); Honors Award, Assen. of American Geographers 1976, Lauréat d'honneur, Int. Geographical Union 1976. *Publications:* Economic Geography of the U.S.S.R. 1949, International List of Geographical Serials 1960, Soviet Geography: Accomplishments and Tasks 1962, Cities of the Soviet Union 1970, Annotated World List of Selected Current Geographical Serials in English, French and German 1971, Guide to Geographical Bibliographies and Reference works in Russian or on the Soviet Union 1975, Bibliography of Geography Part I, Introduction to General Aids 1976, articles in professional journals. *Address:* Center for International Studies, University of Chicago, 5828 University Avenue, Chicago, Ill. 60637, U.S.A.

HARRIS, Henry, F.R.C.P., F.R.S.; British cell biologist; b. 28 Jan. 1925; s. of Sam and Ann Harris; m. Alexandra Brodsky 1950; one s. two d.; ed. Sydney Boys High School, Univ. of Sydney, Lincoln Coll., Oxford; Dir. of Research, Campaign of Research, Sir William Dunn School of Pathology, Oxford 1954-59; Visiting Scientist, Nat. Inst. of Health, U.S.A. 1959-60; Head Dept. of Cell Biology, John Innes Inst. 1960-63; Prof. of Pathology, Univ. of Oxford 1963-79; Regius Prof. of Medicine and Head of the Sir William Dunn School of Pathology, Oxford; Feldberg Foundation Award; Ivison Macadam Memorial Prize; Prix de la Fondation Isabelle Decazes de Nöue for cancer research. *Publications:* Nucleus and Cytoplasm 1968, Cell Fusion 1970, La fusion cellulaire 1974, papers on cellular physiology and biochemistry in various scientific books and journals. *Leisure interest:* history. *Address:* Sir William Dunn School of Pathology, South Parks Road, Oxford OX1 3RE (Office); 75 Cumnor Hill, Oxford OX2 9HX, England (Home). *Telephone:* Oxford 57321 (Office); Cumnor 2511 (Home).

HARRIS, Julie; American actress; b. 2 Dec. 1925, Mich.; d. of William Picket and Elsie (née Smith) Harris; m. 1st Jay I. Julien 1946 (divorced 1954); 2nd Manning Gurian 1954 (divorced 1967); one s.; 3rd Walter Erwin Carroll 1977; ed. Yale Drama School. *Theatre work includes:* Sundown Beach 1948, The Young and Fair 1948, Magnolia Alley 1949, Montserrat 1949, The Member of the Wedding 1950, Sally Bowles in I am a Camera 1951, The Lark 1956, Little Moon of Alban 1960, A Shot in the Dark 1961, Marathon 33 1964, Ready When You are, C.B. 1964, And Miss Reardon Drinks a Little 1971, Voices 1972, The Late Mrs. Lincoln 1973, In Praise of Love 1974, The Belle of Amherst, New York 1976, London 1977; *films include:* East of Eden 1955, I Am a Camera 1956, Poacher's Daughter 1960, The Haunting, The Moving Target, Voyage of the Damned 1976; New York Drama Critics' Award for I Am a Camera; numerous other awards. *Address:* c/o William Morris Agency, 1350 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

HARRIS, Michael Saul; American international official; b. 15 July 1916; m. Marjorie H. Kipp 1940; two d.; ed. public schools, Philadelphia; Steelworkers' Organising Cttee., Congress of Industrial Orgs. (C.I.O.), Berwick, Pa. 1937, Sub. Regional Dir. Philadelphia 1938-41; District Dir. and mem. Int. Exec. Bd. United Steelworkers of America, Philadelphia 1942-48; Econ. Co-operation Admin. (ECA) Special Mission to France 1948, Chief ECA Special Mission to Sweden 1949-51, to Germany 1951-53; U.S. Minister (Econ. Affairs), Bonn 1953-55; with Ford Foundation 1955-63; Deputy Sec.-Gen. Org. for Econ. Co-operation and Devt. (OECD) 1963-67; Dir. and fmr. Pres. Franklin Book Programs Inc., New York 1967-; Vice-Pres., Dir. John Wiley & Sons Co. 1969-; Dir. and Treas. Iran Foundation; mem. Exec. Cttee., Int. Group of Scientific, Medical and Technical Publrs. *Leisure interests:* gardening, theatre, music. *Address:* 25 Partrick Road, Westport, Conn., U.S.A. (Home). *Telephone:* 226-0818 (Home).

HARRIS, Mrs. Patricia Roberts, A.B., IUR.D.; American lawyer, diplomatist and government official; b. 31 May 1924, Mattoon, Ill.; d. of Bert Fitzgerald and Hildren Brodie (Johnson) Roberts; m. William Beasley Harris 1955; ed. George Washington Univ. Law School, Howard Univ., Univ. of Chicago and American Univ., Washington, D.C.; Program Dir. Young Women's Christian Assen. of Chicago 1946-49; Asst. Dir. American Council on Human Rights 1949-53; Trial Attorney, U.S. Dept. of Justice 1960-61; Assoc. Dean of Students and Lecturer in Law, Howard Univ. 1961-63, Assoc. Prof. of Law 1963-67, Prof. 1967, Dean 1969-70; Amb. to Luxembourg 1965-67; Alt. del. to Gen. Assembly of UN 1966, 1967 and Chair. Plenary Session Econ. Comm. for Europe 1967; Sec. of Housing and Urban Devt. 1977-; mem. U.S.-Puerto Rican Comm. on Status of Puerto Rico 1964-66; mem. Comm. on Revision of Columbia District Criminal Code 1968; mem. Nat. Advisory Cttee. on Reform of Fed. Penal Code 1968-70, Admin. Conf. of the U.S. 1968-71, Nat. Comm. Causes and Prevention of Violence 1968-69, Carnegie Comm. on Future of Higher Educ. 1969-73, Council on Foreign Relations; Chair. Credentials Cttee. Democratic Nat. Convention 1972; Dir. IBM, Scott Paper Co., Chase Manhattan Bank, Georgetown Univ. 1970-77, Greater Washington Educ. TV 1967-73; dir. Practising Law Inst. 1974-; mem. Exec. Board NAACP Legal Defence Fund 1967-77; mem. Bd. of Govs. Atlantic Inst. 1967-77; Chair. District of Columbia Law Revision Comm. 1975-77; Partner Fried, Frank, Harris, Shriver and Kampelman 1970-77; Trustee, 20th Century Fund 1969-77; many hon. degrees and awards. *Address:* Department of Housing and Urban Development, 451 7th Street, S.W., Washington, D.C. 20410, U.S.A. *Telephone:* 202-965-9400.

HARRIS, Richard St. John; Irish actor; b. 1 Oct. 1933, Limerick; s. of Ivan Harris; m. Hon. (Joan) Elizabeth Rees-Williams 1957 (divorced 1969); three s.; m. 2nd Ann Turkel 1974; ed. L.A.M.D.A.; made professional theatre début as Micksee in The Quare Fellow, Theatre Royal, Stratford 1956; also appeared in A View From the Bridge 1956, Paulino in Man, Beast and Virtue 1958; toured Russia and East Europe with Joan Littlewood's Theatre Workshop 1958; The Ginger Man 1959; Diary of a Madman, Royal Court 1963. *Films include:* Alive and Kicking 1958, Shake Hands with the Devil 1959, The Wreck of the Mary Deare 1959, A Terrible Beauty 1960, All Night Long 1961, The Guns of Navarone 1961, Mutiny on the Bounty 1962, This Sporting Life, Major Dundee 1965, The Heroes of Telemark 1965, The Bible 1966, Hawaii 1966, Caprice 1966, Camelot 1967, The Molly Maguires 1969, A Man Called Horse 1969, Bloomfield 1970, Cromwell 1970, Man in The Wilderness 1971, The Deadly Trackers 1973, 99 and 44/100 Dead 1974, Juggernaut 1975, Robin and Marian 1975, The Return of a Man Called Horse 1976, Orca 1977, The Cassandra Crossing 1977, Golden Rendezvous 1977, The Wild Geese 1978. *Recordings:* MacArthur Park and This Time, The Prophet, In the Membership of My Days. *Television appearances include:* The Iron Harp 1958, The Snow Goose 1971. Cannes Film Festival Best Actor Award for This Sporting Life.

HARRIS, Roy (Leroy Ellsworth); American composer; b. 12 Feb. 1898, Lincoln County, Okla.; s. of Elmer E. Harris and Laura Broddle; m. Beula Duffey 1936; five c.; ed. California Univ.; studied under Arthur Farwell and Nadia Boulanger; Guggenheim Fellow 1928-30, Pasadena Music and Art Assen. Fellow 1930-33; Composer in residence, Cornell Univ. 1941-42, Colorado Coll. 1942-48, Utah State Univ. of Agriculture and Applied Science 1948-, Univ. of Calif. 1960-; Fellow, Nat. Inst. of Arts and Letters; Pres. Fellowship of American Composers 1946-50; Coolidge Medal 1942; Hon. Mus.D. (Rutgers and Rochester Univs.). *Compositions:* twelve symphonies, fifteen compositions of chamber music, four concerti, ten vocal works and other forms of instrumental and vocal composition. *Leisure interests:* sports, gardening, chess. *Address:* 1200 Tellem Drive, Pacific Palisades, Calif. 90272, U.S.A. *Telephone:* 213-454-7147.

HARRISON, Sir Cyril Ernest, Kt., M.A.; British company director (retd.); b. 14 Dec. 1901, Leicester; s. of Alfred John Harrison; m. Ethel Wood 1927; two s.; ed. Burnley Grammar School; Chair., English Sewing Cotton Co. Ltd. 1963-68, North-West Regional Council, Fed. of British Industries 1957-59, Christie Hospital and Holt Radium Inst. 1959-61; Pres. Manchester Chamber of Com-

merce 1958-60, Fed. of British Industries 1961-63; mem. Court of Govs. Manchester Univ. 1958-; Pres. The Cotton Silk and Man-Made Fibres Research Assn.; mem. Nat. Econ. Devt. Council (NEDC) 1962-64, mem. of Council Manchester Business School 1965-72, mem. British Nat. Export Council 1965-67; Joint Deputy Chair. Williams & Glyns Bank Ltd. 1965-72; Chair. Bd. of Govs. United Manchester Hospitals 1967-74; Dir. Royal Bank of Scotland 1966-69; part-time mem. North Western Electricity Bd. 1963-72; Fellow, British Inst. of Man., Chartered Inst. of Secretaries; M.A. h.c. (Manchester) 1960, Companion Textile Inst. 1961. *Leisure interests:* golf, reading. *Address:* 8 Harefield Drive, Wilmslow, Cheshire, England. *Telephone:* Wil 22186.

HARRISON, Sir Geoffrey (Wedgwood), G.C.M.G., K.C.V.O.; former British diplomatist; b. 18 July 1908, Southsea, Hants.; s. of Commdr. Thomas Edmund Harrison and Maud Winifred Godman; m. Amy Katharine Clive 1936; three s. one d.; ed. Winchester and King's Coll., Cambridge; entered Foreign Office 1932, served Tokyo 1935-37, Berlin 1937-39; Private Sec. to Parl. Under-Sec., Foreign Office 1939-41; First Sec., Foreign Office 1941-45; Counsellor, Brussels 1945-47; Minister, Moscow 1947-49; Head of Northern Dept., Foreign Office 1949-51; Asst. Under-Sec., Foreign Office 1951-56; Amb. to Brazil 1956-58, to Iran 1958-63; Deputy Under-Sec. of State, Foreign Office 1963-65; Amb. to U.S.S.R. 1965-58. *Leisure interests:* gardening, music, reading. *Address:* Timbers, Plummersplain, nr. Horsham, Sussex; 6 Ormond Gate, London, S.W.3, England. *Telephone:* Handcross 400266; 01-352 9488.

HARRISON, George, M.B.E.; British songwriter and performer; b. 25 Feb. 1943, Wavertree, Liverpool; m. 1st Patricia (Pattie) Anne Boyd 1966 (divorced); m. 2nd Olivia Arias 1978; one s.; ed. Dovedale Primary School and Liverpool Inst.; had first guitar at age of 14, now plays guitar, organ and a variety of Indian instruments; ran guitar quintet The Rebels 1956-58; joined The Quarrymen 1958; appeared under various titles until formation of The Beatles 1960; appeared with The Beatles in Hamburg 1960, 1961, 1962, The Cavern, Liverpool 1960, 1961; toured Scotland, Sweden, U.K. 1963, Paris, Denmark, Hong Kong, Australia, New Zealand, U.S.A., Canada 1964, France, Italy, Spain, U.S.A. 1965, Germany, Spain, Philippines, U.S.A. 1966; attended transcendental meditation course at Maharishi's Acad., Rishikesh, India Feb.-April 1968; formed Apple Corps Ltd., parent org. of The Beatles Group of Cos. 1968; George Harrison composed, arranged and recorded own music for film Wonderwall 1968; organized and performed at The Concert for Bangladesh 1971, concert, film and record proceeds for refugees to UNICEF; tour of U.S.A. and Canada 1974; founder of Material World Charitable Foundation. *Recordings by the Beatles include:* Please Please Me, With the Beatles 1963, A Hard Day's Night 1964, Beatles for Sale 1965, Help! 1965, Rubber Soul 1966, Revolver 1966, Sergeant Pepper's Lonely Hearts Club Band 1967, Magical Mystery Tour 1967, The Beatles (White Album) 1968, Yellow Submarine 1969, Abbey Road 1969, Let It Be 1970. *Films by The Beatles:* A Hard Day's Night 1964, Help! 1965, Yellow Submarine (animated colour cartoon film) 1968, TV film Magical Mystery Tour 1967, Let it Be 1970; producer Little Malcolm and his Struggle Against the Eunuchs 1973; Raga (with Ravi Shankar, *q.v.* and Yehudi Menuhin, *q.v.*) 1974. *Address:* c/o EuroAtlantic, 4 Halkin Place, London, SW1X 8JG, England.

HARRISON, James Merritt, C.C., PH.D.; Canadian geologist; b. 20 Sept. 1915, Regina, Saskatchewan; s. of Roland and Vera (Merrit) Harrison; m. Herta Boehmer Sliter 1944; ed. Univ. of Manitoba and Queen's Univ., Kingston, Ontario; Geologist, Geological Survey of Canada 1943-55; Lecturer Queen's Univ. 1949-50; Geological Survey of Canada Chief Precambrian Div. 1955-56, Dir. 1956-64; Asst. Deputy Minister (Research), Dept. of Mines and Tech. Surveys 1964-67; Asst. Deputy Minister (Science and Tech.), Dept. of Energy, Mines and Resources 1967-71, Sr. Asst. Deputy Minister 1972; Asst. Dir.-Gen. for Science, UNESCO 1973-76; mem. Int. Council of Scientific Unions (ICSU) 1962, Exec. and Vice-Pres. ICSU 1963-65, Pres. 1966-68; Pres. Int. Union Geological Sciences 1961-64; Vice-Pres. Canadian Inst. of Mining and Metallurgy, Pres. 1969; Pres. Royal Soc. of Canada 1967-68; several hon. degrees; Kemp Memorial Medal, Columbia Univ., Blaylock Medal, Canadian Inst. of Mining and Metallurgy, Logan Medal, Geological Assn. of Canada, Outstanding Achievement Award of Public Service of Canada. *Leisure interests:* colour photography, curling, golf, sailing. *Address:* c/o UNESCO, Place Fontenoy, 75700 Paris, France. *Telephone:* 577-16-10.

HARRISON, Reginald (Rex) Carey; British actor-director; b. 5 March 1908, Huyton, Lancs.; s. of William and Edith Harrison; m. 1st Marjorie Thomas 1934, one s.; m. 2nd Lilli Palmer 1943 (divorced 1957), one s.; m. 3rd Kay Kendall 1957 (died 1959); m. 4th Rachel Roberts 1962 (divorced 1971); m. 5th Hon. Elizabeth Rees-Williams 1971 (divorced 1975); m. 6th Mercia Tinker 1978; ed. Liverpool Coll.; first professional appearance Liverpool 1924, first film performance 1929; served in R.A.F. 1941-44; Order of Merit (Italy); Hon. Ph.D. (Boston); plays include: French Without Tears, Design for Living, The Cocktail Party, Bell, Book and Candle, Venus Observed, The Love of Four Colonels, Anne of a Thousand Days, Platonov, My Fair Lady, The Lionel Touch, Henry IV, In Praise of Love (New York), Perrichon's Travels (Chichester), Caesar and Cleopatra (New York), The Devil's Disciple (Los Angeles 1978, The Kingfisher (New York) 1978. *Publication:* Rex (autobiography) 1974. *Films include:* Storm in a Teacup 1937, St Martin's Lane 1938, The Citadel 1938, Over the Moon 1939, Night Train to Munich 1940, Major Barbara 1940, I Live in Grosvenor Square 1945, Blithe Spirit 1945, The Rake's Progress 1946, Anna and the King of Siam 1946, The Ghost and Mrs. Muir 1947, Unfaithfully Yours 1948, Escape 1948, The Fourposter 1952, King Richard and the Crusaders 1954, The Constant Husband 1955, The Reluctant Debutante 1958, Midnight Lace 1960, Cleopatra 1962, My Fair Lady (Acad. Award) 1964, The Yellow Rolls-Royce 1964, The Agony and the Ecstasy 1965, The Honey Pot 1967, Doctor Dolittle 1967, A Flea in Her Ear 1968, Staircase 1969, The Prince and the Pauper 1976, Behind the Iron Mask 1977, Ashanti 1978. *TV appearances include:* Don Quixote 1972. *Leisure interests:* sailing, golf, writing. *Address:* Villa San Genesio, Portofino, Italy (Home). *Telephone:* Portofino 59095.

HARRISON, Russell Edward, B.COMM.; Canadian banker; b. 31 May 1921, Grandview, Manitoba; s. of Edward and Annie Harrison; m. Nancy Doreen Bell 1944; one s. one d.; ed. Univ. of Manitoba; Mil. Service World War II, First Canadian Parachute Bn.; with Canadian Bank of Commerce (now Canadian Imperial Bank of Commerce) 1945-, Asst. Man., Hamilton 1953, Toronto 1956, Chief Insp. of the Bank 1956; Regional Supt., Asst. Gen. Man., Montreal 1956, Regional Gen. Man. 1963, Exec. Vice-Pres., Chief Gen. Man. 1969-73, Dir. 1970-, Pres. and Chief Operating Officer 1973-76, Chair. and Chief Operating Officer 1976-. *Leisure interests:* golf, fishing, swimming. *Address:* Canadian Imperial Bank of Commerce, Commerce Court, Toronto, Ont. M5L 1A2, Canada (Office). *Telephone:* 862-3861 (Office).

HARRISON, Wallace Kirkman; American architect; b. 28 Sept. 1895, Worcester, Mass.; s. of James and Rachel Kirkman; m. Ellen Hunt Milton 1926; one d.; Dir. of Office of Inter-American Affairs, Washington 1945-46; fmr. Dir. of Planning, United Nations Headquarters. *Principal works include:* Rockefeller Center, New York; the UN Headquarters and Lincoln Center Opera House, New York, Presbyterian Church, Stamford; Theme Center, 1939 World's Fair; New York State Capitol, South Mall. *Leisure interest:* architecture. *Address:* Fifth Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* (212)265-4884.

HARROY, Jean-Paul; Belgian former colonial administrator and university professor; b. 4 May 1909, Brussels; s. of Fernand Harroy and Elina Sigel; m. Madeleine Van de Walle 1933; ed. Univ. Libre de Bruxelles; Sec. Gov. Cttee. Belgian Congo Inst. of Nat. Parks, Dir. Foundation for popularizing scientific studies of Congo Nat. Parks 1935-48; Guardian, Albert Nat. Park, Kivu 1937-38, Garamba Nat. Park, Uélé 1947-48; Sec.-Gen. Inst. for Scientific Research in Central Africa (IRSAC) 1948-55; Sec.-Gen. Int. Union for Protection of Nature; Prof. of Colonial Econs., Brussels Univ. 1948-78; Resident-Gen. Ruanda-Urundi 1955-62; Chair. Cttee. of Experts for the Conservation of Nature and Landscape of the Council of Europe 1963-65; Chair. Int. Comm. on Nat. Parks 1966-72; Pres. Acad. Royale des Sciences d'Outremer de Belgique; Médaille d'Or Geoffroy St. Hilaire, etc.; Commdr., Ordre de Léopold. *Publications:* Afrique, terre qui meurt 1944, Tropiques (co-author). *Leisure interests:* walking, travel. *Address:* 9 avenue des Scarabées, 1050 Brussels, Belgium. *Telephone:* 649-87-70.

HARRY, Ralph Lindsay, C.B.E.; Australian diplomatist; b. 10 March 1917, Geelong, Victoria; s. of the late A. H. Harry; m. Dorothy Sheppard 1944; one s. two d.; ed. Univ. of Tasmania and Lincoln Coll., Oxford; joined Dept. of External Affairs 1941; Private Sec. to Minister of External Affairs; Asst. Official Sec., Ottawa 1943-45; Second Sec., later First Sec., Washington, D.C. 1945-49 (at UN, New York 1947-48); Dept. of External Affairs, Canberra 1949-53; Consul-Gen. in Geneva 1953-56; Rep. in Singapore, Brunei, Sarawak and Borneo 1956-57; seconded to Ministry of Defence 1958-59; Asst. Sec. Ministry of External Affairs 1960-66; Amb. to Belgium and the EEC 1966-68, to Repub. of Viet-Nam 1968-70, to Fed. Repub. of Germany 1971-75, to UN 1975-78; frmly. mem. UN Cttee, drafting Universal Declaration of Human Rights and Leader, Del. to UN Conf. on the Law of the Sea. *Address:* c/o Ministry of Foreign Affairs, Administrative Building, Parkes, A.C.T. 2600, Australia.

HARSCH, Joseph Close, A.B., M.A.; American journalist; b. 25 May 1905, Toledo, Ohio; s. of Paul Arthur and Leila Katherine (Close) Harsch; m. Anne Elizabeth Wood 1932; three s.; ed. Williams Coll., Williamstown, Mass., and Cambridge Univ., England; Corresp. Christian Science Monitor 1929-; Asst. Dir. Inter-governmental Cttee. on Political Refugees 1939, returning to Monitor on outbreak of war; Monitor corresp. Berlin 1939-41; Monitor war corresp. southwest Pacific theatre 1942; Radio news analyst for Columbia Broadcasting System 1943-49; Commentator for B.B.C. 1943; Chief, Washington News Bureau, Monitor 1949-51; Radio News analyst for Liberty Broadcasting System 1951-52; foreign affairs columnist Monitor 1952-; News Commentator, Nat. Broadcasting Co. 1953-57; Senior European Corresp. N.B.C. 1957-65, Diplomatic Corresp. N.B.C., Washington 1965-67; A.B.C. Commentator 1967-71; Chief Editorial Writer Monitor, Boston 1971-74, Columnist 1974-; Hon. C.B.E. *Publications:* Pattern of Conquest 1943, The Curtain Isn't Iron 1950. *Leisure interests:* sailing, gardening. *Address:* Highland Drive, Jamestown, Rhode Island 02835, U.S.A. *Telephone:* (401)423-0690.

HART, Rt. Hon. Dame (Constance Mary) Judith, P.C., D.B.E., M.P.; British politician; b. September 1924, Burnley, Lancs.; d. of Harry Ridehalgh; m. Dr. Anthony Barnard Hart 1946; two s.; ed. London School of Economics; Labour M.P. for Lanark 1959-; Joint Parl. Under-Sec. of State for Scotland 1964-66; Minister of State for Commonwealth Affairs 1966-67; Minister of Social Security 1967-68; Paymaster-Gen. 1968-69; Minister of Overseas Devt. 1969-70, 1974-75, 1977-79; mem. Nat. Exec. Cttee. of Labour Party, and Chair. of its industrial Policy Sub-Cttee. and Finance and Econ. Sub-Cttee. *Publication:* Aid and Liberation 1973. *Leisure interests:* gardening, theatre, spending time with family. *Address:* House of Commons, Westminster, London, S.W.1.; 3 Ennerdale Road, Kew, Richmond, Surrey, England (Home). *Telephone:* 01-948 1989 (Home).

HART, George Arnold Reeve, M.B.E.; Canadian banker; b. 2 April 1913, Toronto; s. of George S. and Laura M. (Harrison) Hart; m. 1st Jean C. Gilbert 1939 (deceased), one d.; 2nd Patricia I. Plant 1961; ed. Public and High Schools, Toronto, Ontario; Bank of Montreal 1931-41; Canadian Army 1942-46; Bank of Montreal 1946-, Asst. Gen. Man. Head Office 1954-56, Deputy Gen. Man. 1956-57, Gen. Man. 1957-58, Vice-Pres. and Dir. 1958-59, Pres. 1959-67, Chief Exec. Officer 1959-74, Chair. of Board 1964-75, Chair. Exec. Cttee. 1964-77; Dir. numerous cos. and official of several commercial and other orgs.; Hon. LL.D. (Saskatchewan, Montreal), Hon. D.C.L. (Bishop's Univ., Acadia Univ.), Hon. D.C.Sc. (Sherbrooke). *Leisure interest:* golf. *Address:* R.R.2, Mountain, Ont., K0E 1S0, Canada.

HART, Parker T.; American business consultant and diplomatist (retd.); b. 28 Sept. 1910, Medford, Mass.; s. of William P. Hart and Ella L. Thompson; m. Jane C. Smiley 1949; two d.; ed. Dartmouth Coll., Harvard Univ., and Inst. Universitaire des Hautes Etudes Int., Geneva; Translator, Dept. of State 1937-38; Officer, Foreign Service 1938-69, served Vienna, Pará (Brazil), Cairo, Jeddah, Dhahran 1938-47; Dept. of State 1947-49; Consul-Gen. Dhahran 1949-51; Nat. War Coll. 1951-52; Dir. Office of Near Eastern Affairs, Dept. of State 1952-55; Deputy Chief of Mission Counsellor, Cairo 1955-58; Consul-Gen., Damascus 1958; Deputy Asst. Sec. of State, Near Eastern, S. Asian Affairs 1958-61; Amb. to Saudi Arabia 1961-65, concurrently accred. to Kuwait 1962-63, Minister to Yemen 1961-62; Amb. to Turkey 1965-68; Asst. Sec. of State, Near Eastern, S. Asian Affairs 1968-69; Dir. Foreign Service Inst. 1969; mem. Middle East Inst., Pres. 1969-73; Consultant Bechtel Corpn. 1973-, RCA Corpn. Board of Trustees (Emer.), American Univ. of Beirut; mem. Board of Visitors, Nat. Defense Univ.; mem. Visiting Cttee. on Near East Languages Civilizations, Harvard Univ.; mem. Advisory Council, Near Eastern Studies Dept., Princeton Univ.; mem. of Board, Inst. for Psychiatry and Foreign Affairs; mem. Royal Soc. for Asian Affairs, Council on Foreign Relations (New York), Washington Inst. of Foreign Affairs, Board of Govs., The Middle East Inst., Cen. for Applied Linguistics. *Publications:* several articles in political journals. *Leisure interests:* bird watching, hiking, languages. *Address:* Bechtel Corporation, 1620 I Street, N.W., Washington, D.C. 20006, U.S.A. *Telphone:* (202)393-4747.

HART, Robert Mayes, M.B.A., LL.M.; American lawyer and petroleum company executive; b. 27 Aug. 1925, Oklahoma; s. of James Eben Hart and Marthel (née Mayes); m. Joanne Krusen 1948; two s. one d.; ed. Harvard Univ., Univ. of Oklahoma, New York Univ.; admitted to Oklahoma Bar 1949, New York Bar 1950; Clerk to U.S. district Judge 1949-50; joined Shell Oil Co. as an attorney 1950, Treas. 1962, Exec. Vice-Pres. 1968, Supply Co-ordinator, Shell Int. Petroleum Co., London Nov. 1973-; Man. Dir. Royal Dutch Shell Group July 1976-. *Address:* Shell Centre, London, SE1 7NA, England. *Telephone:* 01-934 3579.

HARTFORD, Huntington, B.A.; American financier and art patron; b. 18 April 1911, New York; s. of Edward and Henrietta (Guerard) Hartford; m. 1st Mary Lee Epling (dissolved 1939); 2nd Marjorie Steele 1949 (dissolved 1961), one s. and one d.; 3rd Diane Brown 1962 (dissolved 1970), one d.; 4th Elaine Kay 1974; ed. St. Paul's School, and Harvard Univ.; Co-Chair. Oil Shale Corpn. (New York) 1949; Founder Huntington Hartford Foundation Calif. 1949, Huntington Hartford Theatre Hollywood 1954, Gallery of Modern Art (New York) 1964 (now called New York Cultural Center in assen. with Fairleigh Dickinson Univ.); Developer and owner Paradise Island (Nassau, Bahamas) 1959-; Publisher Show Magazine; Adviser Cultural Affairs to Pres. of Borough of Manhattan 1967; Patron Lincoln Center for the Performing Arts; mem. Advisory Council of Columbia Univ. Dept. of Art History and Archaeology, Nat. Council of the Arts 1969, U.S. People's Fund for UN Inc.; Hon. Fellow, Nat. Sculpture Soc., Broadway Assen. Man. of Year Award; OAS Award 1966. *Publications:* Jane Eyre (play) 1958, Art or Anarchy 1964, You Are What You Write 1973. *Address:* 600 Third Avenue, New York, N.Y. 10016, U.S.A. (Office).

HARTH, Victor, M.D.; German physician; b. 20 Oct. 1914, Frankfurt am Main; s. of Dipl. Ing. Fritz Harth and Emmy (née Will) Hartha; m. Christa Harth, M.D. 1959; two s. two d.; ed. Univs. of Würzburg, Montpellier, Frankfurt am Main; in practice as a specialist in internal medicine; also Pres. Internal Medicine Section of European Union of Medical Specialists (UEMS); First Vice-Pres. European Assen. of Internal Medicine (AEMIE); mem. Gov. Council of Berufsverband deutscher Internisten; Pres. Congresses for Psychosomatic Medicine; Editor, Internist; Assoc. Editor Journal of the Royal College of Physicians, London; Chief Editor, Die Heilkunst; First Chair. Schutzgemeinschaft Alt Bamberg e.V. (assen. for conservation of old Bamberg); Counsel for the Drug Comm.; medical journalist, producer of medical scientific films and documentary films. *Publications:* articles in scientific journals, especially on diet, gerontology, autovaccination; books concerning diet; articles on urban studies, sociological questions, preservation of monuments. *Leisure interests:* painting, photography, sculpture. *Address:* Hainstrasse 9, 8600 Bamberg, Federal Republic of Germany. *Telephone:* 0951-26608, 26609.

HARTKE, Vance, A.B., J.D.; American lawyer and politician; b. 31 May 1919, Stendal, Ind.; s. of Hugo and Ida Hartke; m. Martha Tiernan 1943; four s. three d.; ed. Stendal High School, Evansville Coll., Indiana Univ.; Navy and Coastguard service during World War II; Deputy Prosecutor, Vanderburgh County, Ind. 1950-51; Pres. Eighth Congressional District Young Democrats, Chair. Vanderburgh County Democratic Cen. Cttee. 1952-58, Mayor of Evansville, Ind. 1956-58; U.S. Senator for Indiana 1959-77; Chair. Veterans' Affairs Cttee., Readjustment, Educ. and Employment Sub-Cttee., sub-cttees. on Foundations, Surface, Transportation and Freight, Car Shortage, Democratic Senatorial Campaign Cttee. 1961-63; mem. cttees. on Finance, Commerce, Special Cttee. on Unemployment 1959-61, Senate Special Cttee. on Aging, joint cttees. on Internal Revenue Taxation, Reduction of Fed. Expenditures, Budget Control, Legislative Review Cttee. of Democratic Policy Cttee.; U.S. Senate del. to interparl. meetings and confs. on trade; several hon. degrees; awards and citations especially for legislation helpful to the blind, the mentally retarded and veterans. *Publications:* Inside the New Frontier 1962, The American Crisis in Vietnam 1968, You and Your Senator 1970. *Address:* 850 Dexter Avenue, Evansville, Ind., U.S.A.

HARTKE, Werner, D.PHIL; German university professor; b. 1 March 1907, Eschwege; s. of Lic.Dr. Dr. h.c. Wilhelm Hartke and Tilly Kühne; m. Christa Behrendt 1936; two s. one d.; ed. Berlin Univ.; mem. Communist Party of Germany 1945, Sozialistische Einheitspartei Deutschlands (SED) 1946-; Lecturer, Königsberg and Göttingen Univs., Prof. of Classical Philology 1948-55; Dean, Faculty of Philosophy, Rostock Univ. 1949-51, 1953-55; Prof. Latin Language and Literature, Humboldt Univ., Berlin 1955-, Rector 1956-59; Scientific Dir. Goethe Wörterbuch 1967-; Dir. Berlin Inst. for Antiquity Research, Adviser for research in Ancient History and Archaeology 1969-; mem. Deutsche Akad. der Wissenschaften, Pres. 1958-68, Vice-Pres. 1968-72; Editor: Deutsche Literaturzeitung 1972-, Beiträge zur Alexander von Humboldt-Forschung 1973-; mem. U.S.S.R. Acad. of Sciences 1966-, Hungarian Acad. of Sciences, Bulgarian Acad. of Sciences 1967-, Inst. d'Egypte; Academia Latinitati inter omnes gentes fovendae; D.Phil. h.c. (Rostock); Nat. Prize, gold medallist of Nat. Order of Merit, Order Kyril Methodii, Gold Medal za zásluhy o vědu a lidstvo of Czechoslovak Acad. of Sciences, Winkelmann-Medal, etc. *Publications:* De saeculu IV exeuntis historiarum scriptoribus 1932, Geschichte und Politik im spätantiken Rome 1940, Römische Kinderkaiser 1951. *Leisure interests:* gardening, painting, sailing, meteorology, orni-

thology, telecommunications, radio-television technics. *Address:* Akademie der Wissenschaften der DDR, Schiffbauerdamm 19, 104 Berlin; Ostendorfstrasse 26, 117 Berlin, German Democratic Republic (Home). *Telephone:* 28-25-571 (Office); 67-16-431 (Home).

HARTLEY, Fred L(loyd), B.SC.; American oil executive; b. 16 Jan. 1917, Vancouver, B.C., Canada; m. Margaret Alice Murphy 1940; one s. one d.; ed. Univ. of British Columbia; went to U.S.A. 1939, naturalized 1950; Engineering Supervisor, Union Oil Co. of Calif. 1939-53, Man. Commercial Devt. 1953-55, Gen. Man. Research Dept. 1955-56, Vice-Pres. (Research) 1956-60, Senior Vice-Pres. 1960-63, Dir. 1960-, Exec. Vice-Pres. 1963-64, Pres. and Chief Exec. Officer 1964-, Chair. Feb. 1975-; Dir. American Petroleum Inst. (API), Calif. Chamber of Commerce, Los Angeles Philharmonic Assen., Exec. Council on Foreign Diplomats, U.S.-Korea Econ. Council, Union Bank, Rockwell Int.; mem. Nat. Petroleum Council; Trustee, Calif. Inst. of Technology, Tax Foundation, Cttee. for Econ. Devt. *Address:* Union Oil Co. of California, Box 7600, Los Angeles 90051, U.S.A.

HARTLINE, Haldan Keffer, M.D.; American physiologist; b. 22 Dec. 1903, Bloomsburg, Pa.; s. of Daniel S. and Harriet (Keffer) Hartline; m. Mary Elizabeth Kraus 1936; three s.; ed. Lafayette Coll., Easton, Pennsylvania, and Johns Hopkins Univ., Baltimore, Maryland; Nat. Research Fellow in Medical Sciences, Johns Hopkins Univ. 1927-29; Eldridge Johnson Traveling Research Scholar, Univs. of Leipzig and Munich 1929-31; Fellow in Medical Physics, Eldrige Johnson Research Foundation, Univ. of Pa. 1931-36, Asst. Prof. of Biophysics 1936-40, 1941-42; Assoc. Prof. of Physiology, Cornell Univ. Medical Coll. 1940-41; Assoc. Prof. of Biophysics, Univ. of Pa. 1943-48, Prof. 1948-49- Prof. of Biophysics and Chair. of Dept., Johns Hopkins Univ. 1949-53; mem. and Prof. Rockefeller Univ., New York 1953-74, Emer. 1974-; mem. Nat. Acad. of Sciences, American Physiological Soc., American Philosophical Soc., American Acad. of Arts and Sciences; Foreign mem. Royal Soc. (U.K.) 1966; Hon. D.Sc. (Lafayette, Univ. of Pa.), Hon LL.D. (Johns Hopkins), Hon. M.D. (Freiburg), Hon. D.Sc. (Rockefeller Univ.) 1976, (Maryland) 1978; Howard Crosby Warren Medal 1948, Michelson Award 1966, Nobel Prize for medicine or physiology 1967, Lighthouse Award 1969. *Leisure interest:* hiking. *Address:* Rockefeller University, 66th Street and York Avenue, New York, N.Y. 10021 (Office); Patterson Road, Hydes, Md. 21082, U.S.A.(Home). *Telephone:* (212)360-1215 (Office); (301)592-8162 (Home).

HÄRTLING, Peter; German writer and journalist; b. 13 Nov. 1933, Chemnitz; s. of Rudolf and Erika (Häntzschel) Härtling; m. Mechthild Maier 1959; two s. two d.; ed. Gynmasium (Nürtingen/Neckar); childhood spent in Saxony, Czechoslovakia and Württemberg; journalist 1953-; Literary Editor Deutsche Zeitung und Wirtschaftszeitung, Stuttgart and Cologne; Editor of magazine Der Monat 1967-70, also Co-publisher; Editor and Man. Dir. S. Fischer Verlag, Frankfurt 1968-74, Editor Die Väter; mem. PEN. Akademie der Wissenschaften und der Literatur Mainz, Akademie der Künste Berlin; Literaturpreis des Deutschen Kritikerverbandes 1964, Literaturpreis des Kulturkreises der Deutschen Industrie 1965, Literarischer Förderungspreis des Landes Niedersachsen 1965, Prix du meilleur livre étranger, Paris 1966, Gerhart Hauptmann Preis 1971, Deutscher Jugendbuchpreis 1976, Stadtschreiber von Bergen-Enkheim 1978-79. *Publications:* Yamins Stationen (poetry) 1955, In Zeilen zuhaus (essays) 1957, Palmström grüsst Anna Blume (essays) 1961, Spielgeist-Spiegelgeist (poetry) 1962, Niembsch oder Der Stillstand (novel) 1964, Janek (novel) 1966, Das Familienfest (novel) 1969, Gilles (play) 1970, Ein Abend, Eine Nacht, Ein Morgen (novel) 1971, Zwettl—Nachprüfung einer Erinnerung (novel) 1973, Eine Frau (novel) 1974, Hölderlin (novel) 1976, Andreden (poetry) 1977, Hubert oder Die Rückkehr nach Casablanca (novel) 1978. *Address:* Walldorf/Hessen, Finkenweg 1, Federal Republic of Germany. *Telephone:* 06105-6109.

HARTLING, Poul; Danish United Nations official; b. 14 Aug. 1914, Copenhagen; s. of late M. Hartling (fmr. Minister of Education) and late Mathilde Hartling; m. Dr. (medical) Elsebeth Hartling (née Kirkemann) 1940; three s. one d.; Master of Divinity; Sec. to Student Christian Movement 1934-35, to Denmark's Christian Movement of Senior Secondary Students 1939-43, Curate of Frederiksberg Church 1941-45; Chaplain of St. Luke Foundation 1945-50; Principal of Zahle's Teachers' Training Coll. 1950-68; mem. Folketing 1957-60, 1964-77; Chair. Liberal Party Parl. Group 1965-68; mem. Nordic Council 1964-68, Pres. 1966-73, Vice-Pres. 1977; Minister of Foreign Affairs 1968-71; Prime Minister 1973-75; Chair. Liberal Party 1973-77; UN High Commr. for Refugees 1978–. *Publications:* Sursum corda (History of Student Christian Movement); Editor Church, School, Culture 1963, The Danish Church 1964, From 17 years in Danish Politics 1974. *Leisure interest:* music. *Address:* Office of the United Nations High Commissioner for Refugees, Palais des Nations, 1211 Geneva 10, Switzerland. *Telephone:* (022)31 02 61.

HARTMAN, Arthur A., A.B.; American diplomatist; b. 12 March 1926, New York; m. Donna Van Dyke Ford; three s. two d. Harvard Univ., Harvard Law School; served in U.S. Army Air Corps 1944-46; Econ. Officer, Econ. Co-operation Admin., Paris 1948-52; Econ. Officer of U.S. del. to European Army Conf., Paris 1952-54; Politico-Mil. officer, U.S. Mission to NATO, Paris 1954-55; Econ. officer, Joint U.S. Embassy/Agency for Int. Devt. Mission, Saigon, Repub. of Viet-Nam 1956-58; Int. Affairs Officer, Bureau of European Affairs, Dept. of State 1958-61; Staff Asst. to Under-Sec. of State for Econ. Affairs 1961-62, Special Asst. 1962-63; Head of Econ. Section, U.S. Embassy, London 1963-67; Special Asst. to Under-Sec. of State 1967-69; Staff Dir. of Sr. Interdepartmental Group 1967-69; Deputy Dir. of Coordination to Under-Sec. of State 1969-72; Deputy Chief of Mission and Minister-Counsellor, U.S. Mission to European Communities, Brussels 1972-74; Asst. Sec. of State for European Affairs 1974-77; U.S. Amb. to France June 1977-; Presidential Management Improvement Award 1970, Distinguished Honor Award 1972. *Address:* American Embassy, avenue Gabriel 2, 75008 Paris, France.

HARTMANN, (Ernst) Franz (Johan), B.SC. (ECON.); Swedish business executive; b. 1898; m. Inga G. Tellander 1929; two s.; ed. Stockholm School of Economics and Hochschule für Landwirtschaft und Brauerei, Weihenstephan; Asst. Man. J. W. Lyckholm & Co., Göteborg 1922-25, AB J. A. Pripp & Son 1926-31; Dir. for Pripps Brewery 1931-50; Gen. Man. AB Pripp & Lyckholm 1950-62; Chair. of Board Pripp-Bryggerierna AB 1962-; Chair. of Board Abba-Fyrtonet AB, Coronaverken AB, Skandinavska Banken, Säfveåns AB, Rederi AB Transatlantic; Vice-Chair. AB Bolinder-Munktell, Skandia-koncernen; mem. of Board, Livförsäkr AB Thule, Billeruds AB, AB Custos, Larsson, Seaton & Co. AB; Knight Commdr. Order of Vasa, Order of Dannebrog, Order of St. Olav. *Address:* Pripp-Bryggerierna AB, Box 128, 401 22 Gothenburg 1; Överåsgaten 22, 412 66 Gothenburg, Sweden (Home).

HARTMANN, Robert Trowbridge, A.B.; American government official; b. 8 April 1917, Rapid City, S. Dak.; s. of Miner Louis and Elizabeth (Trowbridge) Hartmann; m. Roberta Sankey 1943; one s. one d.; ed. Stanford Univ.; Reporter Los Angeles Times 1939-41, 1945-48, Editorial and Special Writer 1948-54, Chief of Washington Bureau 1954-63, Chief of Mediterranean and Middle East Bureau, Rome 1963-64; FAO Information Adviser, Washington, D.C. 1964-65; Editor Republican Conf., House of Reps. 1966-69, Minority Sergeant at Arms 1969-73; Chief of Staff to Vice-Pres. Gerald Ford 1973-74; Counsellor to Pres. Gerald Ford, with Cabinet rank 1974-77; mem. Bd. Visitors, U.S. Naval Acad. 1977-; Naval Officer 1941-45, Capt. U.S.N.R. (retd.); Reid Foundation Fellow in the Middle East 1951; Better Understanding Citation, English Speaking Union, U.S.A. 1958; Overseas Press Club Citation 1961. *Leisure interests:* photography, snorkelling. *Address:* 5001 Baltimore Avenue, Westgate, Md. 20016, U.S.A. (Home). *Telephone:* 229-7616.

HARTNACK, Carl Edward; American banker; b. 9 April 1916, Los Angeles, Calif.; s. of Johannes C. Hartnack and Kate Schoneman; m. Roberta DeLuce 1939; two s. one d.; ed. Belmont High School Los Angeles, Pacific Coast Banking School, Seattle, and American Inst. of Banking; with Security First Nat. Bank (now Security Pacific Nat. Bank) Los Angeles 1934-, Vice-Pres. 1959, Senior Vice-Pres. 1968, Pres. Jan. 1969-; fmrly. Pres., Vice-Chair. Security Pacific Corpn. 1973-78, Chair. 1978-. *Leisure interests:* boating, gardening, photography. *Address:* Security Pacific National Bank, 333 South Hope Street, Los Angeles, Calif. 90071, U.S.A. *Telephone:* 613-6004.

HARTNER, Willy R., F.R.A.S.; German university professor; b. 22 Jan. 1905, Ennigerloh; s. of Friedrich Otto Hartner and Johanna Hoenig; m. Else Eckhoff 1932; one d.; ed. Johann Wolfgang Goethe-Universität, Frankfurt, Universitetet i Oslo, and Univ. de Paris (Sorbonne); Asst. China Inst., Frankfurt 1928-31, Acting Dir. 1940-41; Asst., Observatory, Frankfurt 1931-35; Lecturer in Scandinavian Languages and Literatures, Univ. of Frankfurt 1931-; Visiting Prof. of History of Science, Harvard Univ. 1935-37; Docent, History of Science, Frankfurt Univ. 1940-46, Dir. Inst. for History of Sciences 1943-, Prof. of History of Science 1946-, Dean of Faculty of Science 1946-48, 1954-55, Rector 1959-60; Visiting Prof. Univ. of Chicago 1949, 1955, Harvard Univ. 1961-64, Cambridge Univ. 1968-69; Vice-Pres. Académie Int. d'Histoire des Sciences, Paris 1965-68, Pres. 1971-; Assoc. Royal Astronomical Soc.; Corresp. mem. Real Academia de Buenas Letras de Barcelona, Academia Toscana di Scienze e Lettere ("La Colombaria") (Florence); mem. Academia Nazionale dei Lincei (Rome) 1975; mem. several scientific socs.; hon. mem.

Rudolf Virchow Soc. (New York); Chevalier de l'Ordre national de la Légion d'honneur; George Sarton Medal (History of Science Soc.), Rutherford Medal (U.S.S.R. Acad. of Sciences) 1971. *Publications:* articles on history of science in numerous int. journals; Oriens-Occidens (selected articles 1934-1967) 1968, Die Goldhörner von Gallehus 1969. *Leisure interests:* music, fine arts, tennis. *Address:* Schopenhauerstrasse 5, 638 Bad Homburg, Federal Republic of Germany. *Telephone:* 06172-23684.

HARTOG, Harold Samuel Arnold, K.B.E.; Netherlands business executive; b. 21 Dec. 1910, Nijmegen; s. of Jacob and Suzanne Henriette (Elias) Hartog; m. Ingeborg Luise Michael; one s.; ed. Wiedemann Coll., Geneva; joined Unilever 1931; mem. Netherlands forces, Second World War; joined Unilever in France after Second World War, later in charge of Unilever companies in Netherlands; mem. Board Unilever N.V. 1948-71; mem. Unilever Rotterdam Group Management responsible for Unilever activities in Germany, Austria and Belgium 1952-60; mem. Unilever Cttee. for Overseas Interests, London 1960-62; one of two World Coordinators, Unilever's food interests, London 1962-66; Chair. Unilever N.V. 1966-71 (retd.); Knight Order of Netherlands Lion. *Address:* 40b Kösterbergstrasse, 2000 Hamburg 1955, Federal Republic of Germany.

HARTOG, Jan de; Netherlands writer; b. 22 April 1914, Haarlem; s. of Arnold and Lucretia de Hartog-Meyjes; m. Marjorie Eleanor Mein; two s. four d. *Publications:* Het Huis met de Handen 1934, Ave Caesar 1936, Oompje Owadi 1938, Holland's Glory 1940, God's Geuzen Vol. I 1947, Vol. II 1948, Vol. III 1949, Stella 1950, Mary 1951, The Lost Sea 1951, Thalassa 1952, Captain Jan 1952, The Little Ark 1954, The Inspector 1961, Waters of the New World (travel) 1961, The Artist 1963, The Hospital 1965, The Captain 1967, The Children 1969, The Peaceable Kingdom 1972; *plays:* De Ondergang van de Vrijheid 1937 (Great Nat. Drama Prize 1939), Mist 1938, Skipper Next to God 1946, Death of a Rat 1946, The Fourposter 1946; detective stories under pseudonym of F. R. Eckma: Een Linkerbeen gezocht 1935, Spoken te koop 1936, Ratten op de trap 1937, Drie Dode Dwergen 1937, De Maagd en de Moordenaar 1938. *Leisure interests:* travel, reading. *Address:* c/o Atheneum Publishers, 122 East 42nd Street, New York, N.Y. 10017, U.S.A.

HARTUNG, Hans; German-born French painter; b. 21 Sept. 1904, Leipzig; s. of Curt Hartung and Margarete, née Nakonz; m. Anna-Eva Berman; ed. Leipzig Univ., Leipzig and Dresden Acads. of Fine Art; first exhibition 1931; Foreign Legion in the Second World War; French nationality 1946; rep. at Dunn Int. Exhibition, London 1963, Tale Gallery, London 1964; mem. Berlin and Munich Acads. of Fine Art; Guggenheim Prize 1956, Rubens Prize 1957, Grand Prize, Venice Biennale 1960; Prix d'honneur, Ljubljana Graphic Art Exhbn. 1967; works rep. in numerous museums and galleries in Europe, Asia, North and South America; Retrospective exhbns. Museo Civico di Torino 1966, City Museum, Birmingham 1968, Musée National d'Art Moderne, Paris 1969, Museum of Fine Arts, Houston 1969; Commdr. de la Légion d'honneur, Commdr. des Arts de Lettres, Médaille militaire, Croix de guerre. *Address:* c/o Musée National d'Art Moderne, 2 rue de la Manutention, 75016 Paris, France.

HARTWELL, Baron (Life Peer), cr. 1968, of Peterborough Court in the City of London; **(William) Michael Berry,** M.B.E., T.D.; British newspaper executive; b. 18 May 1911; s. of the late 1st Viscount Camrose and Viscountess Camrose (née Mary Agnes Carn); m. Lady Pamela Smith 1936; two s. two d.; ed. Eton Coll. and Christ Church, Oxford; served 1939-45 war; fmr. Deputy Editor-in-Chief The Daily Telegraph, Editor-in-Chief 1954-; Editor-in-Chief The Sunday Telegraph 1961-; Chair. Amalgamated Press Ltd. 1954-59. *Publication:* Party Choice 1948. *Address:* 18 Cowley Street, London, S.W.1; and Oving House, Whitchurch, nr. Aylesbury, Bucks, England.

HARTZOG, George B., Jr., M.B.A.; American lawyer and administrator; b. 17 March 1920, Colleton County, S.C.; s. of George B. and Mazell (Steedly) Hartzog; m. Helen Carlson 1947; two s. one d.; ed. The American Univ., Washington, D.C.; Attorney and Administrator, Dept. of the Interior with Bureau of Land Management and Nat. Park Service 1946; principal field assignments with Nat. Park Service; Asst. Supt. Rocky Mountain Nat. Park, Colorado 1955-57, Great Smoky Mountains Nat. Park, N. Carolina-Tennessee 1957-59; Supt. Jefferson Nat. Expansion Memorial, St. Louis, Mo. 1959-62; Assoc. Dir. Nat. Parks Service 1963-64, Dir. 1964-72; Exec. Dir. Downtown St. Louis, Inc. 1962-63; Prof. of Public Admin., Univ. of Southern Calif., Washington Public Affairs Center 1972-; Vice-Pres. Hartzog, Lader & Richards, Hilton Head, S.C. and Arlington, Va. 1975-; recipient of several awards for services; Hon. LL.D. (Washington Univ.). *Address:* 900 17th Street, N.W., Washington, D.C. 20006 (Office); 1643 Chain Bridge Road, McLean, Va. 22101, U.S.A. (Home). *Telephone:* (703)356-1566 (Home).

HARVEY, Anthony; British film director; b. 3 June 1931; s. of Geoffrey Harrison and Dorothy Leon; entered film industry, joining Crown Film Unit 1949; edited numerous films including Private Progress, Brothers-in-law, Carlton Brown of the Foreign Office, I'm Alright Jack, The Angry Silence, The Millionairess, Lolita, the L-Shaped Room, Dr. Strangelove, The Spy Who Came in from the Cold, the Whisperers; directed Dutchman 1968, The Lion in Winter 1969, They Might be Giants 1970, The Abdication 1973, the Glass Menagerie 1973, The Disappearance of Sister Aimee (TV) 1976, The Eagle's Wing. *Leisure interest:* gardening. *Address:* c/o Arthur Greene, 230 Park Avenue, New York, N.Y., U.S.A. *Telephone:* (212) 889-7050.

HARVEY-JONES, John Henry, M.B.E.; British company director; b. 16 April 1924, London; s. of Mervyn and Eileen Harvey-Jones; m. Mary Evelyn Bignell 1947; one d.; ed. Tormore School, Deal, Royal Naval Coll., Dartmouth; served with Royal Navy 1937-56, specialising in submarines, later working with Naval Intelligence; resgnd. with rank of Lieutenant Commdr. 1956; joined ICI as Work Study Officer 1956, then held various commercial posts at Wilton and with Heavy Organic Chemicals Div. until appointed Techno-Commercial Dir. 1967; Deputy Chair. HOC Div. 1968; Chair., ICI Petrochemicals Div. 1970-73; appointed to Main Bd. ICI 1973, Deputy Chair 1978-; mem. Tees and Hartlepool Port Authority 1968-73, Chair., Phillips-Imperial Petroleum 1973-75; Non-Exec. Dir., Reed Int. Ltd. 1975-, Carrington Viyella Ltd. 1974-; mem., Tees and Harlepool Port Authority 1968-73, North East Devt. Bd. 1971-73. *Leisure interests:* ocean sailing, swimming, the countryside, cooking, contemporary literature. *Address:* Imperial Chemical House, Millbank, London, SW1P 3JF, England (Office). *Telephone:* 01-834 4444.

HARVIE-WATT, Sir George Steven, Bt., Q.C., T.D., F.R.S.A.; British businessman and fmr. politician; b. 23 Aug. 1903, Bathgate, Scotland; s. of James McDougal Watt and Jessie Harvie; m. Jane Elizabeth Taylor 1932; two s. one d.; ed. George Watson's Coll., Glasgow and Edinburgh Univs.; called to Bar Inner Temple Jan. 1930; Brevet Major 1935, Lieut.-Col. Commanding 31st Battalion R.E., T.A. 1938-41; Conservative M.P. for Keighley Div. of Yorkshire 1931-35 and for Richmond, Surrey, 1937-59; Parl. Private Sec. to the late Rt. Hon. Euan Wallace when Parl. Sec. to Board of Trade 1937-38, and to Rt. Hon. Winston Churchill 1941-45; Asst. Govt. Whip 1938-40; D.L. Surrey 1942, Greater London Council 1966; J.P. County of London 1944-56; Dir. Midland Bank Ltd., The Clydesale Bank, Eagle Star Insurance Co., North British Steel Group; Pres. Consolidated Goldfields; fmr. Chair. Monotype Corpn. Ltd.; mem. of Queen's Bodyguard for Scotland—The Royal Company of Archers; Commdr. 63rd A.A. Brigade 1948-50; A.D.C. to H.M. the King 1948-51; A.D.C. to H.M. the Queen 1952-59; Hon. Freeman, City of London 1976. *Address:* Earlsneuk, Elie, Fife, Scotland. *Telephone:* Elie 506.

HARWOOD, Elizabeth Jean, G.R.S.M., L.R.A.M. British soprano; b. 27 May 1938, Barton, Seagrave; d. of Sydney and Constance Harwood; m. Julian A. C. Royle 1966; one s.; ed. Royal Manchester Coll. of Music; joined Glyndebourne Opera Co. 1960; joined Sadlers Wells 1961; toured Australia with Sutherland-Williamson Int. Opera Co. 1965; has sung at Covent Garden, London, with Scottish Opera, at La Scala, Milan, Hamburg State Opera, Metropolitan Opera, New York, and at Salzburg and Vienna Festivals; many TV and concert appearances; roles include Constanze in Die Entführung, Countess in Count Ory, Marzellina in Fidelio, Norina in Don Pasquale, Donna Elvira in Don Giovanni, Fiordiligi in Così fan Tutti, Countess in Marriage of Figaro, Violetta in La Traviata, Sophie in Der Rosenkavalier, all four soprano roles in The Tales of Hoffmann, title role in Lucia di Lammermoor; many recordings include The Merry Widow, La Bohème; Fellow, Royal Manchester College of Music; Kathleen Ferrier Memorial Prize 1960, Winner of Verdi Competition, Bussetto; Fellow, Royal Manchester Coll. of Music. *Address:* Masonetts, Fryerning, Ingatestone, Essex, England.

HARWOOD, Raymond Charles, B.C.S.; American publisher; b. 10 June 1906, Brooklyn, N.Y.; s. of Charles Edwin Harwood and Josephine C. Bangel; m. Joan Underwood 1938; two d.; ed. New York Univ.; Asst. Treas. Harper and Brothers 1930-42, Treas. 1942-58, mem. Board of Dirs. 1943, mem. Exec. Cttee. 1944, Gen. Man. 1945-50, Exec. Vice-Pres. 1950-55, Chair. 1967-68 (now Harper Row, Publishers Inc.); Sec. and Treas. Paul B. Hoeber Inc. 1935-61; Chair. of Exec. Cttee., Treas., Trustee and Chair, Finance Cttee. Princeton Univ. Press (retd.); mem. Board of Dirs. Book of the Month Club. *Leisure interests:* golf, arbitration, community service, travel, education. *Address:* 47 Forest Road, Asheville, N.C. 28803, U.S.A. *Telephone:* (704) 274-4838.

HASAN, Mubashir, PH.D.; Pakistani civil engineer and politician; b. 1922, Panipat, Punjab; ed. Govt. Coll., Lahore, Engineering Coll., Lahore, Columbia Univ. and State Univ. of Iowa, U.S.A.; mem. of Staff, Civil Engineering Dept., Engineering Coll., Lahore (subsequently Univ. of Engineering and Technology) 1943, later Prof. and Head of Dept. until 1962; private practice, Lahore 1962-67; joined Pakistan People's Party 1967, Sec.-Gen. until April 1977 (resigned); arrested for political activities 1968, 1969; mem. Nat. Assembly 1970-77; Minister of Finance, Econ. Affairs and Devt. 1971-74. *Address:* Lahore, Punjabi, Pakistan.

HASANI, Baqir Husain, B.SC., LL.B.; Iraqi diplomatist and public administrator; b. 12 Feb. 1915, Baghdad; s. of Abdul and Bidoor Husain; ed. Columbia Univ., New York and Baghdad Univ.; Dir. of Commerce and Registrar of Companies, Iraq Ministry of Econs. 1947-51; Dir.-Gen. of Contracts and Econ. Affairs, Development Board 1951-54; Dir.-Gen. of Income Tax, Ministry of Finance 1954-55; Dir.-Gen. and Chair. of Bd. of Dirs. Tobacco Monopoly Admin. 1956-69; Minister, later Amb. to Austria 1959-63; Chair. Board of Govs. Int. Atomic Energy Agency (IAEA) 1961-62, Special Adviser to Dir.-Gen. IAEA 1963-67, 1970-76; mem. Iraqi and later IAEA Del. to UN; Rafidain Decoration, Class III (Iraq), Great Golden Order for Merit (Austria). *Leisure interests:* reading and music. *Address:* 43 Maidenhead Court Park, Maidenhead, Berks., SL6 8HN, England (Home); Via Civelli Mario 9, 21100 Varase, Italy; and Mosban, Karadah, Baghdad, Iraq. *Telephone:* (628) 38573 (England); (0332) 22-88-59 (Italy).

HASE, Karl-Günther von; German civil servant and diplomatist; b. 15 Dec. 1917, Wangern (Breslau); s. of Col. Günther von Hase and Ina Hicketier; m. Renate Stumpff 1945; five. d.; mil. service; German Foreign Service, Bonn and Ottawa; Deputy Chief, later Head of Press Dept., Foreign Office, Bonn 1956-61, Head, Western Dept. 1961-62; State Sec., Head, Press and Information Office of the Fed. Govt. 1962-68; State Sec. Ministry of Defence 1968-69; Amb. to U.K. 1970-77; Head of Second German Television (ZDF) 1977-; Hon. G.C.V.O., K.C.M.G. *Leisure interests:* shooting, riding, music. *Address:* Essenheimer, Landstrasse, 6500 Mainz-Lerchenberg, Federal Republic of Germany.

HASEEB, Dr. Khair El-Din, PH.D.; Iraqi economist and statistician; b. 1 Aug. 1929, Mosul; m. 1955; one s. one d.; ed. Baghdad Univ., London School of Econs., Cambridge Univ.; Civil Service 1947-54; Head of Research and Statistics Dept., Iraqi Petroleum Co. 1959-60; Lecturer Baghdad Univ. 1960-61, part-time lecturer 1961-63; Dir.-Gen. Iraqi Fed. of Industries 1960-63; Gov. Central Bank of Iraq 1963-65; Act. Pres. Econ. Org. 1964-65; Pres. Gen. Org. for Banks 1964-65; Assoc. Prof. of Econs. Baghdad Univ. 1965-71, Prof. 1971-74; Gov. of Iraq, IMF 1963-65; Alt. Gov. of Iraq, IBRD 1963-65; Chair. of Board Centre for Development of Industrial Management 1963, Social Security Org. 1963-65, Central Bank of Iraq 1963-65; Dir. Iraq Nat. Oil Co. 1967-68; Chief of Natural Resources and Science and Tech. Div. UN ECWA 1974-. *Publications:* The National Income of Iraq, 1953-1961, 1964, Sources of Arab Thought in Economics in Iraq (in Arabic) 1971, Workers' Participation in Management in Arab Countries (in Arabic) 1971, and several articles in English and Arabic. *Leisure interests:* tennis and swimming. *Address:* P.O. Box 111612, Beirut, Lebanon.

HASEGAWA, Norishige; Japanese chemical executive; b. 8 Aug. 1907, Kumamoto City; s. of Teiichiro and Sakae (Aoji) Hasegawa; m. Tomiko Ataka 1933; one d.; ed. Toyko Imperial Univ.; Sumitomo Chemical Co. 1931-, Dir. 1951-, Man. Dir. 1956, Vice-Pres. 1963-65, Pres. 1965-77, Chair. 1977-; mem. Econ. Council, Office of the Prime Minister, Industrial Structure Council and Industrial Tech. Council of Ministry of Int. Trade and Industry; Vice-Pres. Fed. of Econ. Org.; Dir. Japan Cttee. for Econ. Devt.; Exec. Councillor Osaka Chamber of Commerce and Industry; Standing Dir. Kansai Econ. Fed., Japan Fed. of Employer's Assn.; Pres. Japan Chem. Industry Assn., Nippon Aluminium Co. Ltd.; Chair, Japan-U.S. Southeast Assn., Japan-U.S. Midwest Assn.; mem. Visiting Cttee., Center for Int. Studies, M.I.T.; Pres. Japan Chemical Industry Assn., Japan Greece Soc.; Trustee, Univ. of the Sacred Heart; mem. Japan Comm. of Trilateral Comm., Advisory Cttee. Japanese Nat. Railways, Industrial Problems Research Council; Dir. and Adviser Assn. of Petrochemical Industry in Japan; Dir. numerous other cos.; mem. Exec. Cttee., Japan-U.S. Econ. Council; Deputy Chair. Int. Man. Assn. of Japan. *Leisure interests:* golf, arts, Greek culture. *Address:* Sumitomo Chemical Co. Ltd., 15, 5-chome Kitahama, Higashi-ku, Osaka (Office); 12-7, Aioi-cho, Hyogo Prefecture, Japan (Home). *Telephone:* 06-220-3211 (Office); 0798-22-2400 (Home).

HASEGAWA, Shiro; Japanese politician; b. 1905, Kanto District; elected to House of Reps. 11 times from constituency in Gunma Prefecture; has served as Parl. Vice-Minister of Int. Trade and Industry; fmr. Chair of Diet Policy Cttee. of Liberal Democratic Party (LDP); fmr. Deputy Speaker of House of Reps.; Minister of Agric. and Forestry 1968-70; assoc. of Etsusaburo Shiina (*q.v.*); Minister of Construction 1976-77. *Address:* c/o Ministry of Construction, Tokyo, Japan.

HASEGAWA, Takashi; Japanese politician; b. 1 April 1912; ed. Waseda Univ.; Editor Kyushu daily paper; Private Sec. to Minister of State; mem. House of Reps. 1953-; Deputy Minister of Educ. 1961-62; Vice-Chair. Public Relations Cttee., Liberal Democratic Party (LDP) 1963, Chair. 1966; Minister of Labour 1973-76; Dir. Japan Athletic Assn. *Address:* 8-903, Yonban-cho, 9-chome, Chiyodo-ku, Tokyo, Japan.

HASIM, Jawad, M., PH.D.; Iraqi economist and politician; b. 10 Feb. 1938; s. of Mahmoud Hashim and Nasrat Baqer; m. Salwa Al-Rufaiee 1961; two s.; ed. London School of Econs. and Political Science, Univ. of London; Prof. of Statistics, Univ. of Baghdad 1967; Dir.-Gen. Cen. Statistical Org. 1968; Minister of Planning 1968-71; mem. Econ. Office, Revolutionary Command Council 1971-72; Minister of Planning 1972-74; Man. Dir. Arab Monetary Fund (A.M.F.) April 1977-; mem. Planning Board and Econ. Office, Revolutionary Command Council Nov. 1974; Chair. UN Econ. Comm. for Western Asia (ECWA) 1975. *Publications:* Capital Formation in Iraq 1957-1970, National Income—Its Methods of Estimation, The Evaluation of Economic Growth in Iraq 1950-1970. Development of Iraq's Foreign Trade Sector 1950-1970, and eighteen articles. *Leisure interests:* sport, driving, reading. *Address:* Arab Monetary Fund, Abu Dhabi, United Arab Emirates.

HASIOR, Władysław; Polish sculptor; b. 14 May 1928, Nowy Sacz; s. of Antoni and Waleria Hasior; m. Joanna Narkiewicz; one s.; ed. Acad. of Fine Arts, Warsaw; Teacher of sculpture, Coll. of Art Techniques, Zakopane 1957-70; scenographer State Dramatic Theatre, Wrocław 1964-70, Polish Theatre, Wrocław 1970-71; mem. Polish Fine Arts Assn. 1958-; numerous one-man exhbns. in Poland, Stockholm, Oslo, Paris, Brussels, Copenhagen, Helsinki, Venice, New York, São Paulo, Montevideo, Göteborg, Malmö, London, Coventry, etc.; creator of many monuments commemorating victims of World War II; some works permanently in museums in Stockholm, Göteborg, Oslo and Amsterdam; prize of Ministry of Culture and Art 1971; Chevalier's Cross, Order of Polonia Restituta 1974. *Address:* Ul. Jagielońska 3, "Borek", Zakopane, Poland.

HASKELL, Arnold Lionel, C.B.E., M.A. F.R.S.L.; British ballet school governor, author and lecturer; b. 1903, London; s. of J. S. Haskell and Emmy Mesritz; m. 1st Vera Saitzoff 1926 (died 1968), two s. one d.; m. 2nd Vivienne Marks 1970; ed. Westminster and Trinity Hall, Cambridge; mem. Editorial Board of William Heinemann 1929-34; joint founder Camargo Soc. 1930; Ballet critic Daily Telegraph 1934-47; lectured for Ministry of Information and other bodies on Australia 1940-45; Dir. Royal Ballet School 1946-65, Gov. 1966-; Gov. Royal Ballet 1957; Founder, Ballet Benevolent Fund; Vice-Pres. Varna and Moscow Ballet Competitions, Royal Acad. of Dancing; Council mem. Royal West of England Acad., Council of Bath Univ.; Dir. Festival Ballet Trust; travelled and lectured in U.S.A., Australia, Canada, France, Germany, Italy, Spain, Portugal, U.S.S.R., Cuba, etc.; Chevalier de la Légion d'honneur; Hon. D.Litt. (Bath) 1974. *Publications:* Balletomania 1934, Diaghileff 1935, Dancing Round the World 1937, Ballet Panorama 1938, Ballet: A Complete Guide to Appreciation 1938, Balletomane's Album 1939, Waltzing Matilda 1940, The Australians 1942, Australia 1942, The National Ballet 1945, In His True Centre (autobiography) 1951, Saints Alive 1954, The Russian Genius in Ballet 1963, Ballet Retrospect 1964, Heroes and Roses 1966, Ballet Russe 1968, Infantilia 1971, Balletomane at Large (autobiography) 1972, Balletomania, Now and Then 1975. *Leisure interests:* collecting sculpture and juvenilia. *Address:* 6A Cavendish Crescent, Bath, Avon, BA1 2UG, England. *Telephone:* Bath 22472.

HASKINS, Caryl Parker, PH.D.; American scientist and educationist; b. 12 Aug. 1908, Schenectady, N.Y.; m. Edna Ferrell 1940; ed. Yale and Harvard Univs.; mem. of research staff Gen. Electric Co., Schenectady 1931-35; Research Assoc. Mass. Inst. of Technology 1935-44; Pres. and Research Dir. Haskins Laboratories, Inc. 1935-55, Dir. 1935-, Chair. 1969-; Research Prof. in Biophysics, Union Coll., Schenectady 1937-55; Liaison Officer 1940-43, Exec. Asst. to the Chair. 1943-44 and Deputy Exec. Officer 1944-45, Nat. Defence Research Cttee.; Scientific Adviser to the Policy Council 1947 and to the Research and Devt. Board of the Nat. Mil. Establishment 1948-51; Chair. Advisory Cttee. to the Sec. of Defense on special weapons 1948-49; Consultant to the Sec. of Defence 1948-60, to the Sec. of State 1950-60; mem. President's Science Advisory

Cttee. 1955-58, Consultant 1959-70; Pres. Carnegie Inst. of Washington, D.C. 1956-71, Trustee 1949-; Dir. E. I. Du Pont de Nemours & Co. 1971-; mem. sec. Navy Advisory Cttee. on Naval History 1971-, Vice-Chair. 1975-; Dir. Center for Advanced Study in Behavioural Sciences 1960-75, Thomas Jefferson Memorial Foundation 1972-, Wildlife Preservation Trust Int. Inc. 1976-; numerous hon. degrees; Presidential Certificate of Merit and King's Medal for Service in the Cause of Freedom. *Publications:* Of Ants and Men 1939, The Amazon, The Life History of a Mighty River 1943, Of Societies and Men 1951, Scientific Revolution and World Politics 1964, The Search for Understanding. *Address:* Suite 600 2100 M Street, N.W., Washington, D.C. 20037, U.S.A. (Office.) *Telephone:* (202) 833-1720.

HASKINS, Sam (Samuel Joseph); South African photographer and designer; b. 11 Nov. 1926, Kroonstad; s. of Benjamin G. Haskins and Anna E. Oelofse; m. Alida Elzabe van Heerden 1952; two s.; ed. Helpmekaar School and Witwatersrand Technical Coll., Johannesburg Bolt Court School of Photography, London; freelance work, Johannesburg 1953-68, London 1968-; one-man exhbns. in Johannesburg 1953, 1960, Tokyo 1970, London 1972, 1976, Paris 1973, Amsterdam 1974; Fellow, Royal Photographic Soc. 1974, Soc. of Industrial Artists and Designers 1974; Prix Nadar (France) for Cowboy Kate and Other Stories 1964, Israel Museum Award, Int. Art Book Contest Award, Gold Medal Award for Haskins Posters, New York 1974. *Publications:* Five Girls 1962, Cowboy Kate and Other Stories 1964, African Image 1966, November Girl 1967, Haskins Posters 1972, and portfolios in most major international photographic magazines. *Leisure interests:* vintage car rallying, books, music. *Address:* 9A Calonne Road, London, SW19 5HH, England.

HASLER, Arthur Davis, PH.D.; American professor of zoology; b. 5 Jan. 1908, Lehi, Utah; s. of Walter Thalmann Hasler and Ada Broomhead Hasler; m. Hanna Prusse Hasler 1932 (deceased); five s. one d.; ed. Brigham Young Univ. and Univ. of Wisconsin; Aquatic biologist, U.S. Fish and Wildlife Service 1935-37; Naturalist, U.S. Nat. Park Services 1937-38; staff, Univ. of Wis. 1937-, Chair. Dept. of Zoology 1953, 1955-57, Prof. of Zoology 1948-, Dir. Laboratory of Limnology 1963-; mem. research Cttee., Wis. Conservation Dept. 1954-66; Chair. Lake Mendota Problems Cttee. 1965-72; Pres. Int. Assen. of Ecology 1974; Dir. Inst. of Ecology 1971-74; mem. Nat. Acad. of Sciences; Foreign mem. Royal Netherlands Acad. of Sciences 1976; Fellow, Philadelphia Acad. of Sciences 1953, American Inst. of Fisheries Research Biology 1958, American Acad. of Arts and Sciences 1972, American Assen. for Advancement of Science and numerous other professional and advisory bodies; Hon. D.Sc. (Newfoundland). *Publications:* Underwater Guideposts and over 125 research publications. *Address:* Laboratory of Limnology, University of Wisconsin, Madison, Wis. 53706, U.S.A. *Telephone:* 608 262-1627.

HASLUCK, Rt. Hon. Sir Paul Meernaa Caedwalla, K.G., G.C.M.G., G.C.V.O., P.C., M.A.; Australian historian, diplomatist and politician; b. 1 April 1905, Fremantle; m. 1932; two s.; ed. Perth Modern School, Western Australia Univ.; mem. Editorial staff The West Australian; Hon. Sec. Western Australian Historical Soc. 1930-36; Lecturer in History Western Australia Univ. 1939-40; mem. staff Australian Dept. of External Affairs 1941-47; Sec. Canberra Conf. Jan. 1944; Adviser on Australian del. to Wellington Conf. Nov. 1944; Adviser British Commonwealth meeting London April 1945; Adviser San Francisco Conf. April 1945; Australian del. Exec. Cttee. of United Nations Preparatory Comm. London Aug. 1945; alternate del. Preparatory Comm. Nov. 1945; del. General Assembly Jan and Sept. 1946; Dir. post-hostilities Div. Australian Dept. of External Affairs April 1945; Counsellor-in-Charge Australian Mission UN H.Q. Mar. 1946; Acting rep. of Australia on Security Council and Atomic Energy Comm. July 1946; Research Reader in History, Univ. of W. Australia 1948; elected to Commonwealth Parl. as Liberal M.P. 1949-69; Minister for Territories, Fed. Cabinet 1951-63; Minister of Defence 1963-64, of External Affairs 1964-69; Gov.-Gen. of Australia 1969-74; Fellow Australian Social Science Acad., Australian Humanities Acad., Royal Australian Historical Soc., K. St. J.; engaged on official history of Australia in Second World War during 1947, 1948, 1949. *Publications:* Our Southern Half-Castes 1938, Into the Desert 1939, Black Australians 1942, Workshop of Security 1947, The Government and the People, 1939-1945 (Australian Official War History) 1952, 1969, Native Welfare in Australia 1953, Collected Verse 1970, An Open Go 1971, A Time for Building 1976, Mucking About: An Autobiography 1977. *Address:* 2 Adams Road, Dalkeith, W.A. 6009, Australia.

HASSAN II, King of Morocco; 17th Sovereign of the Alaouite dynasty; b. 9 July 1929; ed. Bordeaux Univ.; son of Mohammed V; invested as Crown Prince Moulay Hassan 1957; C.-in-C. and Chief of Staff of Royal Moroccan Army 1957; personally directed rescue operations at Agadir earthquake disaster 1960; Minister of Defence 1960-61; Vice-Premier 1960-61; succeeded to throne on death of his father, 26 Feb. 1961; Prime Minister 1961-63, 1965-67; Minister of Defence 1972-73, Commdr.-in-Chief of the Army Aug. 1972-; Chair. OAU Ass. of Heads of State 1972. *Address:* Royal Palace, Rabat, Morocco.

HASSAN, Hon. Sir Joshua (Abraham), Kt., C.B.E., M.V.O., Q.C.; Gibraltar lawyer and politician; b. 1915, Gibraltar; s. of Abraham R. M. Hassan and Lola Hassan (née Serruya); m. 1st Daniela Salazar 1945 (dissolved 1969), two d.; m. 2nd Marcelle Bensimon 1969, two d.; ed. Line Wall Coll., Gibraltar; called to Bar, Middle Temple, London 1939; mem. Exec. Council, Chief mem. Legislative Council, Gibraltar 1950-64; Chief Minister of Gibraltar 1964-69, 1972-; Leader of Opposition, House of Assembly 1969-72; Minister for Information 1976-; Mayor of Gibraltar 1945-50, 1953-69; Deputy Coroner, Gibraltar 1941-64; Chair. Cttee. of Management Gibraltar Museum 1952-65; Chair. Cen. Planning Comm. 1947-70, Gibraltar Lottery Cttee. 1955-69; Pres. Gibraltar Labour Party and Assen. for the Advancement of Civil Rights. *Leisure interest:* reading. *Address:* 11/18 Europa Road, Gibraltar. *Telephone:* 2295.

HASSAN, Moulaye al-; Mauritanian diplomatist; ed. Inst. of Admin. Studies, Faculty of Law, Univ. of Dakar. Chief of Protocol, Ministry of Foreign Affairs 1960-68; Consul-Gen. Mali 1968-70; Amb. to Ivory Coast 1970-71; Perm. Rep. to UN 1971-78; del. to UN Gen. Assembly 1968. *Address:* c/o Ministry of Foreign Affairs, Nouakchott, Mauritania.

HASSEL, Kai-Uwe von; German politician; b. 21 April 1913; m. 1st Elfriede Fröhlich 1940 (died 1971); one s. (deceased) one d.; m. 2nd Dr. Monika Weichert 1972; one s.; studied farming and trade in Tanganyika; plantation trader E. Africa 1935-40, deported to Germany 1940; served in Army 1940-45, prisoner 1945; Mayor of Glücksburg 1947 and mem. of County Council; mem. of Schleswig-Holsteinischer Landtag 1950-65; also elected to Bundestag, but resigned on appointment as Minister-Pres. of Schleswig-Holstein 1954-63; Pres. Bundesrat 1955-56; Deputy Chair. CDU 1956; Minister of Defence, Fed. Repub. of Germany 1963-66, for Refugees and Expellees 1966-69; mem. of Bundestag 1965-; Pres. of Bundestag 1969-72, Vice-Pres. 1972-76; Pres. European Union of Christian Democrats and Vice-Pres. Int. Union of Christian Democrats 1973-; Pres. Parl. Assembly of WEU 1977-. *Address:* Fördestrasse 11, D-2392 Glücksburg (Ostsee), Federal Republic of Germany.

HASSEL, Odd, DR. PHIL.; Norwegian chemist; b. 17 May 1897, Oslo; s. of the late Ernst Hassel and Mathilde Klaveness; ed. Univs. of Oslo, Munich and Berlin; Reader, Univ. of Oslo 1925, Lecturer 1926, Prof. 1934-64, Prof. Emer. 1964-; Hon. Fellow, Chem. Soc. (London), Norwegian Chem. Soc.; mem. several European acads.; several hon. degrees; Knight, Order of St. Olav; Gunnerus Medal 1964, Guldberg-Waage Medal 1964, Nobel Prize for Chem. 1969. *Publications:* Kristallchemie (trans. in English and Russian) 1934; about 250 scientific papers chiefly on molecular structures and structures of donor-acceptor complexes in European and American periodicals. *Address:* Department of Chemistry, University of Oslo, Oslo 3; Holsteinveien 10, Oslo 8, Norway (Home). *Telephone:* 466800 (Office); 232062 (Home).

HASSETT, Gen. Sir Francis George, A.C., K.B.E., C.B., D.S.O., M.V.O.; Australian army officer; b. 11 April 1918, Sydney; s. of J. F. Hassett; m. Margaret Hallie Spencer 1946; two s. two d.; ed. Canterbury High School, Sydney, Royal Military Coll., Duntroon; mem. of Darwin Mobile Force 1939, Australian Imperial Force 1939-45 (Middle East, S.W. Pacific area); Commdr. 1 RAR and 3 RAR 1951-52 (Korea), 28th Commonwealth Infantry Brigade Group 1960-62 (Malaya); at Imperial Defence Coll. London 1963; Deputy Chief of Gen. Staff 1964-66; Head Australian Joint Services Staff, London 1966-67; Extra Gentlemen Usher to H.M. The Queen 1966-68; G.O.C. Northern Command 1968-70; Head Army Reorg. Planning Staff 1970-71; Vice Chief of Gen. Staff 1971-73; Chief of Gen. Staff 1973-75; Chief of Defence Force Staff 1975-77 (retd.). *Leisure interests:* Boating, reading, fishing, travel. *Address:* 42 Mugga Way, Red Hill, Canberra, A.C.T. 2603, Australia. *Telephone:* Canberra 95-8035.

HASSON, Maurice; French-Venezuelan violinist; b. 6 July 1934, Berck-Plage; m. Jane Hoogesteijn, 1969; one s. three d.; ed. Conservatoire National Supérieure de Musique, Paris, further studies with Henryk Szeryng (*q.v.*). début with Dean Dixon and Orchestre Lamoureux, Salle Pleyel, Paris 1950; concert artist in major concert halls throughout world, also in TV and radio performances; First Prize Violin, Prix d'Honneur, and First Prize Chamber Music, Conservatoire National Supérieure de Musique, Paris 1950, Int. Prize Long Thibaut 1951, Int. Prize Youth Festival, Warsaw 1955,

Grand Prix Music de Chambre 1957. *Recordings include:* Concerto No. 1 (Paganini), Concerto No. 2 (Prokofiev), Debussy Sonatas, Fauré Sonatas, Concerto No. 1, Scottish Fantasy (Bruch), Concerto for 2 and 4 violins (Vivaldi), Double Concerto (Bach), Concerto (Brahms). *Leisure interests:* Painting, sport, cars. *Address:* c/o Van Walsum Management, 85 Lillie Road, London, S.W.6.; 18 West Heath Court, North End Road, London, N.W.11, England (Home). *Telephone:* 01-458 3647 (Home).

HASSOUNA, Mohammed Abdel-Khalek al; Egyptian diplomatist; b. 28 Oct. 1898; ed. Cairo Univ. and Cambridge; began as lawyer 1921; subsequently joined Egyptian Diplomatic Corps; served Berlin 1926, Prague 1928, Brussels 1928, Rome 1930, and at Ministry for Foreign Affairs, Cairo 1932-39; Under-Sec. of State, Ministry for Social Affairs 1939; Gov. of Alexandria 1942; Under-Sec. of State, Ministry for Foreign Affairs 1948; Minister of Social Affairs 1949; Minister of Education 1952; Minister for Foreign Affairs 1952; Sec.-Gen. Arab League 1952-72; Grand Cordon of the Order of the Nile, Nile Collar, Légion d'honneur; decorations from Belgium, Holy See, Syria, Ethiopia, Italy. *Address:* 3 Rifaa Street, Manchiet El Bakri, Cairo, Egypt.

HASTINGS, A(lbert) Baird, B.S., PH.D.; American professor of biological chemistry; b. 20 Nov. 1895, Dayton, Ky.; s. of Otis Luther and Elisabeth (Henry) Hastings; m. Margaret Anne Johnson 1918; one s.; ed. Univ. of Michigan and Columbia Univ.; Chemist, U.S. Public Health Services 1917-21; Asst. Rockefeller Inst. for Medical Research 1921-22; Assoc. 1922-26; Prof. Physiological Chemistry Univ. of Chicago 1926-28, Prof. of Biochemistry 1928-35; Hamilton Kuhn Prof. of Biological Chemistry Harvard Medical School 1935-58, Emer. 1958-; mem. Scripps Clinic and Research Foundation 1959-66, mem. Emeritus 1966-; Research Assoc., Dept. of Neurosciences, Univ. of Calif., San Diego 1966-; Lecturer Univ. of Southern Calif. 1924; mem. American Acad. of Arts and Sciences, American Philosophical Soc., Nat. Acad. of Sciences, Royal Danish Acad. of Sciences and Letters, Nat. Research Council (mem. of various cttees.); mem. cttee. on Medical Research, Office of Scientific Research and Devt., Washington 1941-47; mem. Board of Review, U.S. Atomic Energy Comm. 1947; Pres. Soc. for Experimental Biology and Medicine and American Soc. of Biological Chemists 1945-47; Syndic, Harvard Univ. Press; Consultant, Div. of Biology and Medicine, U.S. Atomic Energy Comm. 1950-62; U.S. del. Int. Conf. on Peaceful Uses of Atomic Energy, Geneva 1954; U.S. Public Health Nat. Advisory Cttees. 1943-64; Walter Reed Army Inst. of Research 1956-62, etc.; Trustee Brookhaven Nat. Laboratory, Associated Univs. Inc. 1948-51, mem. Visiting Cttee. 1956-; Visiting Prof. School of Medicine, Pahlavi Univ., Shiraz, Iran Nov. 1967; mem. Nat. Advisory Comm. White House Conf. on Ageing 1971; Hon. Sc.D. (Michigan, Harvard Columbia, Boston, Oxford, St. Louis, Indiana); President's Medal for Merit 1948, Banting Medal of American Diabetes Assen. 1962, and many other awards. *Leisure interest:* fishing. *Address:* 2130 Vallecitos, Apt. 147, La Jolla, Calif. 92037, U.S.A.

HATCH, Henry Clifford; Canadian business executive; b. 30 April 1916, Toronto, Ont.; s. of Harry C. Hatch and Elizabeth Carr; m. Joan Ferriss 1940; two s. two d.; ed. St. Michael's College School, Toronto; Salesman, T. G. Bright & Co., Ltd., Niagara Falls 1933-37; Merchandising Staff Hiram Walker Inc., Walkerville, Ont. 1937, Dir. 1938; Dir. Hiram Walker-Gooderham & Worts Ltd. 1946, Vice-Pres. 1955, Exec. Vice-Pres. 1961, Pres. 1964-; Dir. T. G. Bright & Co. Ltd., The Toronto-Dominion Bank, Bell Canada, Curtis Co. Ltd. *Leisure interests:* sailing, curling, swimming, reading, golf. *Address:* 2072 Riverside Drive East, Walkerville, Ont., N8Y 4S5 (Office); 7130 Riverside Drive East, Windsor, Ont. N8S 1C3, Canada (Home). *Telephone:* (519) 254-5171 (Office); (519) 944-1616 (Home).

HATCH, Orrin Grant, B.S., J.D.; American lawyer and politician; b. 22 March 1934, Homestead Park, Pa.; s. of Jesse Hatch and Helen Kamm Hatch; m. Elaine Hansen 1957; three s. three d.; ed. Brigham Young Univ., Univ. of Pittsburgh; journeyman metal lather; Partner, Thomson, Rhodes & Grigsby 1962-69; Senior Vice-Pres. and Gen. Counsel, American Minerals Man. and American Minerals Fund Inc., Salt Lake City, Utah 1969-71; Partner, Hatch & Plumb, Salt Lake City 1976; Senator from Utah Jan. 1977-; Republican. *Publication:* Good Faith under the Uniform Commercial Code. *Address:* U.S. Senate, Washington, D.C. 20510 (Office); 3362 South Monte Verde Drive, Salt Lake City, Utah 84109; 2127 Galloping Way, Vienna, Va. 22180, U.S.A. (Homes). *Telephone:* (801) 524-4380 (Utah); (703) 938-1325 (Virginia).

HATCHER, Harlan Henthorne, M.A., PH.D., LIT.D., LL.D., L.H.D.; American author and fmr. university president; b. 9 Sept. 1898, Ironton Ohio; s. of Robert E. and Linda Leslie Hatcher; m. Anne Vance 1942; one s. one d.; ed. Ohio State Univ. and Univ. of Chicago; Instructor, Ohio State Univ. 1922-28, Asst. Prof. 1928-32, Prof. of English 1932-51, Dean of Coll. of Arts and Sciences 1944-48, Vice-Pres. 1948-51; Pres. Univ. of Michigan 1951-67, Pres. Emer. 1967; served U.S. Army 1918, U.S. Navy 1942-44; State Dir. Fed. Writers' Project in Ohio 1937-39; Editorial Adviser College English 1938-48, Pres. The Developing Great Lakes Megalopolis Research Project 1968-77; Nat. Chair. Univ. Resident Theatre Assen. 1969-; Commr. State of Mich. Judicial Tenure Comm. 1968-; numerous hon. degrees; Commdr. Order of Orange-Nassau (Netherlands), Companion, Most Exalted Order of White Elephant (Thailand) and others. *Publications:* The Versification of Robert Browning 1928, Tunnel Hill 1931, Patterns of Wolfpen 1934, Creating the Modern American Novel 1935, Central Standard Time 1937, The Buckeye Country 1940, The Great Lakes 1944, Lake Erie 1945, The Western Reserve 1949, The Story of New Connecticut in Ohio 1949, A Century of Iron and Men 1950; Editor: The Ohio Guide 1940, Modern Continental, British and American Dramas, with critical introduction (3 vols.) 1941, Modern Dramas (shorter edition) 1944, A Modern Repertory 1953, A Pictorial History of the Great Lakes 1963, The Persistent Quest for Values 1966. *Leisure interests:* golf, travel. *Address:* 841 Greenhills Drive, Ann Arbor, Mich. 48105, U.S.A.

HATEM, Mohammed Abdel Kader, M.SC., PH.D.; Egyptian politician; b. 1917, Alexandria; ed. Military Acad., Univs. of London and Cairo; mem. Nat. Assembly 1957; Adviser to the Presidency, subsequently Deputy Minister for Presidential Affairs 1957; Minister of State responsible for broadcasting and television 1959; Minister for Culture, Nat. Guidance and Tourism 1962; Deputy Prime Minister for Cultural Affairs and Nat. Guidance 1965; Deputy Prime Minister and Minister for Culture and Information 1971-74; Chair. Al-Ahram 1974; Asst. to Pres. of Repub. and Supervisor-Gen. of Specialized Nat. Councils 1974-; mem. Gen. Sec. Arab Socialist Union; hon. doctorates from two French univs. and Dem. People's Repub. of Korea. *Publication:* Information and the Arab Cause 1974. *Address:* Specialized National Councils, Arab Socialist Union Building, Corniche el-Nil, Cairo, Egypt.

HATFIELD, Mark O.; American politician; b. 12 July 1922, Dallas, Oregon; s. of Mr. and Mrs C. D. Hatfield; m. Antoinette Kuzmanich 1958; two s. two d.; ed. Willamette Univ. and Stanford Univ.; U.S. Navy Second World War; Instructor, Asst. Prof., Assoc. Prof. in Political Science, Willamette Univ. 1949-56, Dean of Students 1950-56; State Rep., Marion County 1951-55, State Senator, Marion County 1955-57; Sec. of State, Oregon 1957-59; Gov. of Oregon 1959-67; U.S. Senator from Oregon 1967-, mem. Senate Appropriations Cttee., Cttee. on Interior and Insular Affairs, and Senate Rules and Admin. Cttee.; numerous awards; Republican. *Publications:* Not Quite So Simple (autobiography), Conflict and Conscience (religious speeches), Between a Rock and a Hard Place. *Leisure interests:* gardening, reading. *Address:* Room 463, Old Senate Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* (202) 225-3753.

HATFIELD, Hon. Richard Bennett, B.A., LL.B.; Canadian lawyer and politician; b. 9 April 1931, Woodstock, N.B.; s. of Heber Harold and Dora Fern (Robinson) Hatfield; unmarried; ed. Acadia Univ. and Dalhousie Univ.; admitted to N.S. bar 1956; Exec. Asst., Minister of Trade and Commerce 1957-58; Sales Man. Hatfield Industries Ltd. 1958-65; mem. New Brunswick Legis. Assembly 1961-; Leader, New Brunswick Progressive Conservative Party 1969-; Premier of New Brunswick Nov. 1970-; Dir. Canadian Council of Christians and Jews, Beaverbrook Art Gallery, Fredericton; Hon. Micmac-Maliseet Chieftain 1970; LL.D. (Moncton) 1971, (New Brunswick) 1972, (St. Thomas Univ.) 1973, (Mount Allison Univ.) 1975; Canada-Israel Friendship Award 1973. *Address:* P.O. Box 6000, Fredericton, New Brunswick, E3B 5HI, Canada. *Telephone:* (506) 453 2144.

HATFIELD, Robert Sherman, LL.B.; American business executive; b. 16 Jan. 1916, Utica, N.Y.; s. of Albert R. and Mary (Sherman) Hatfield; m. Roberta Sullivan 1937; one s. three d.; ed. Cornell and Fordham Univs., N.Y.; joined The Continental Group Inc. (fmrly. Continental Can Co.) 1936, Vice-Pres., Gen. Man. 1960-62, Exec. Vice-Pres., Gen. Man. Metal Div. 1962-69, mem. Board of Dirs. 1967, Senior Exec. Vice-Pres. and Chief Operating Officer 1969-71, Chair. of Board and Chief Exec. Officer 1971-; Dir. Gen. Motors Corpn., Eastman Kodak Co., Kennecott Copper Corpn., Citicorp/Citibank, N.A.; mem. boards of industry groups; Trustee, Cornell Univ. *Leisure interests:* golf, tennis, fishing. *Address:* The Continental Group, 633 Third Avenue, New York, N.Y. 10017, U.S.A. *Telephone:* 212-551-7661.

HATHAWAY, Earl B.; American rubber executive; b, 11 Feb. 1903, Hot Springs, Ark.; m. Margaret Moinet 1932; two s. one d.;

ed. Northwestern Univ.; Firestone Tire & Rubber Co. 1927-70; Salesman 1930-32; Store Man. Alton, Springfield, St. Louis and Chicago 1932-36; Asst. Man. Chicago District 1936-38, District Man., Detroit 1938-41; Wholesale Sales Man. Akron 1941-42; Eastern Div. Man. 1942-48; Trade Sales Man. 1948-57; Vice-Pres. (Trade Sales) 1957-59, Vice-Pres. (Sales) 1959-62; Dir. 1960-70; Exec. Vice-Pres. 1961-64, Pres. 1964-70; Dir. Automotive Old Timers, Inc.; Hon. LL.D. (Akron) 1965; Alumni Award Northwestern Univ. 1966. *Address:* 482 St. Andrews Drive, Akron, Ohio 44307, U.S.A.

HATHAWAY, Stanley K. LL.B; American lawyer and politician; b. 19 July 1924, Osceola, Nebraska; m. Roberta Harley 1948; two d.; ed. Univ. of Nebraska; served Army Air Force, Second World War; practising attorney 1950-; head of own law firm Hathaway, Sigler and Callahan; elected Goshen County Prosecuting Attorney 1954 and 1958; Goshen County Chair. 1962-64; State Chair. Republican Party 1964; Gov. Wyoming 1967-74; Sec. of the Interior June-Oct. 1975; Chair. Fed. of Rocky Mountain States 1968, Interstate Oil Compact Comm. 1972; Croix de guerre; five Air Medals. *Address:* 219 Linda Vista, Torrington, Wyo., U.S.A.

HATHAWAY, William Dodd, LL.B.; American lawyer and politician; b. 21 Feb. 1924, Cambridge, Mass.; m. Mary Lee Bird 1945; one s. one d.; ed. Harvard Univ.; admitted to Mass. Bar 1953, Me. Bar 1954; in private practice Lewiston, Me. 1953-; mem. Congress 1965-78; Senator from Maine 1973-79; Democrat. *Address:* 80 Orchard Street, Auburn, Me. 04210, U.S.A. (Home).

HATHI, Jaisukhlal; Indian lawyer and politician; b. 19 Jan. 1909, Muli, Gujarat; s. of Lal Shanker Hathi; m. Padmavati Hathi 1928; four s. one d.; ed. legal training in Bombay; District and Sessions Judge, Rajkot State; Chief Sec. to Govt. of Saurashtra State; mem. Constituent Assembly 1946-47, Provisional Parl. 1948-52, Rajya Sabha 1952-57, 1962-74, Leader 1967-69, Deputy Parl. Leader of Congress Party 1972-74; mem. Lok Sabha 1957-62; Deputy Minister of Irrigation and Power 1952-62; Minister of State for Labour 1962; Minister of Supply 1962-64; Minister of State in Ministry of Home Affairs 1964-66; Minister of Defence Supplies 1965-66; Minister of State for Defence 1966-67; Minister of Labour and Rehabilitation 1967-69; now Advocate, Supreme Court of India; Chair. Cttee. of Enquiry on Drugs and Pharmaceuticals, Govt. of India 1972-74; Chair. Indian Drugs and Pharmaceuticals Ltd. 1975-76; Gov. of Haryana 1976-77; Chair. Nat. Lawyers' Forum; mem. Cttee. of Legal Aid, Govt. of India; Vice-Pres. Bharatiya Vidya Bhavan, Bombay; Pres. Grandharva Maha Vidyalaya; Trustee, Som Nath Temple Trust. *Publications:* Place of Indian States in Federation, Sidelights of Indian Princes. *Leisure interests:* reading books, social, cultural and educational activities. *Address:* c/o Haryana Raj Bhavan, Chandigarh, India. *Telephone:* 26085 (Office); 26041 (Home).

HATOYAMA, Iichiro; Japanese politician; b. 11 Nov. 1918, Tokyo; s. of late Ichiro Hatoyama (Prime Minister of Japan, 1955-56); m. Yasuko Ishibashi 1942; two s. one d.; ed. Faculty of Law, Tokyo Imperial Univ.; joined Ministry of Finance 1941; served Imperial Navy 1941-46; returned to Ministry of Finance 1946, Deputy Dir.-Gen. of Budget Bureau 1964-66; Deputy Vice-Minister for Admin., Econ. Planning Agency 1966; Dir.-Gen. of Financial Bureau of Ministry of Finance 1967, Dir.-Gen. of Budget Bureau 1968-71, Vice-Minister of Finance 1971-72; mem. House of Councillors 1974-; Minister of Foreign Affairs 1976-77. *Leisure interests:* golf, baseball, *Noh* song. *Address:* 7-1, Otowa 1-chome, Bunkyo-ku, Tokyo, Japan. *Telephone:* 941-2800.

HATTA, Mohammad; Indonesian politician; b. 1902; ed. Rotterdam School of Economics, Holland. Nationalist activity from schooldays; Chair. "Perhimpunan Indonesia" (Univ. Students' Assn.) 1926; arrested by Dutch 1927; tried and released 1928; returned to Indonesia 1932 and founded Pendidikan Nasional Indonesia, mass-education political party 1932; arrested 1934; exiled to Digul 1935, later to the Moluccas; released by Japanese 1942; elected Vice-Pres. of Republic of Indonesia 1945-49, 1950-56; Prime Minister and Minister of Defence 1948; Prime Minister and Minister of Foreign Affairs 1949-50. *Address:* 57 Jalan Diponegoro, Jakarta, Indonesia.

HATTERSLEY, Rt. Hon. Roy Sydney George, P.C., B.SC.(ECON.); British politician; b. 28 Dec. 1932; s. of Frederick Roy and Enid Hattersley (née Brackenbury); m. Edith Mary Loughran 1956; ed. Sheffield City Grammar School, Univ. of Hull; Journalist and Health Service exec. 1956-64; mem. Sheffield City Council 1957-65; M.P. for Sparkbrook Div. of Birmingham 1964-; Parl. Private Sec. to Minister of Pensions and Nat. Insurance 1964-67; Dir. Campaign for European Political Community 1965; Joint Parl. Sec. Dept. of Employment and Productivity 1967-69; Minister of Defence for Admin. 69-70; Opposition Spokesman for Defence 1970-72, on Education 1972-74, for the Environment June 1979-; Minister of State for Foreign and Commonwealth Affairs 1974-76; Sec. of State for Prices and Consumer Protection 1976-79; Public Affairs Consultant IBM 1971, 1972; Visiting Fellow, Inst. of Politics, Univ. of Harvard 1972; Labour. *Publications:* Nelson—A Biography 1974, Goodbye to Yorkshire—A Collection of Essays 1976. *Address:* House of Commons, Westminster, London, S.W.1., England.

HATTORI, Motozo; Japanese shipping executive; b. 1 Jan. 1905; ed. Kyoto Imperial Univ.; Kawasaki Kisen Kaisha Ltd., Kobe 1931-, Rep. New York Branch 1940-41, Sub-Man., Santiago, Chile 1941-42, Man. 1942-43, Sub.Man., later Man. Operating Section, Kobe 1943-46; Gen. Man. Operating and Chartering Dept. 1946, Dir. 1947-49, Exec. Dir. 1949-50, Pres. 1950-73, Chair. 1973-; Pres. Kawasaki Steamship Co., New York 1955-, Kawasaki (London) Ltd. 1956-70; official of other firms and business orgs. *Address:* c/o Kawasaki Kisen Kaisha Ltd., 8 Kaigan Dori, Ikutaku, Kobe, Japan.

HATTORI, Seitaro; Japanese banker; b. 23 June 1920; s. of Ichiro and Kiyoko Hattori; m. Tsuyako Yamakawa 1950; one d.; ed. Tokyo Imperial Univ.; joined Ministry of Finance 1942; Liaison Office, Ministry of Finance 1947-53; London Rep., Japan Monopoly Corpn. 1953-64, Dir. Facilities Div. 1964-65, Sales Div. 1965-66; Deputy Dir. Int. Finance Bureau, Ministry of Finance 1966-68; Alt. Exec. Dir. Int. Monetary Fund 1968-70; Exec. Dir. for Burma, Ceylon, Japan, Laos, Malaysia, Nepal, Singapore and Thailand, Int. Bank for Reconstruction and Devt. (World Bank), IFC and IDA 1970-73; Adviser to Nat. Westminster Bank, Tokyo 1973-; Alt. Rep. Japanese Del. to UNCTAD II, New Delhi 1967. *Address:* National Westminster Bank Ltd., Mitsubishi Building, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100, Japan.

HAUFF, Volker, DR.RER.POL.; German politician; b. 9 Aug. 1940, Backnang; s. of Richard and Ilse (Dieter) Hauff; m. Ursula Irion 1967; two s.; ed. Free Univ. of Berlin; with IBM Deutschland, Stuttgart 1971-72; Sec. of State to Fed. Minister for Research and Tech. 1972-78; Fed. Minister for Research and Tech. Feb. 1978-; mem. Bundestag 1969-; mem. Social Democratic Party 1959-; mem. IG Metall; Chair. Board, Wissenschaftszentrum Berlin; Deputy Chair. Volkswagen Bequest. *Publications:* Programmierfibel—Eine verständliche Einführung in das Programmieren digitaler Automaten 1965, Für eine soziale Bodenrecht 1972, Berufliche Chancen in der Daten-verarbeit (co-author) 1972 Modernisierung der Volkswirtschaft, Technologiepolitik-als Strukturpolitik 1975, Politik als Zukunftsgestaltung 1976, Damit der Fortschritt micht zum Risiko wird 1978. *Leisure interests:* modern art, cooking. *Address:* Bundesministerium für Forschung und Technologie, 53 Bonn 2, Heinemannstrasse 2 (Office); 73 Esslingen am Neckar, Postfach 843, Federal Republic of Germany (Home). *Telephone:* 35-72-76 (Home).

HAUGE, Gabriel; American economist and banker; b. 7 March 1914, Hawley Minn.; s. of Søren Gabrielson Hauge and Anna B. Thompson; m. Helen Lansdowne Resor 1948; two s. five d.; ed. Concordia Coll., Moorhead, Minnesota, and Harvard Univ.; Instructor in Econs., Harvard Univ. 1938-40; Senior Statistician, Fed. Reserve Bank of New York 1939; Instructor in Econs., Princeton Univ. 1940-42; U.S. Naval Reserve 1942-46; Chief, Div. of Research and Statistics, New York State Banking Dept. 1947-50; McGraw-Hill Publishing Co. 1950-52; Admin. Asst. to Pres. of U.S. for Econ. Affairs 1953-56; Special Asst. to Pres. of U.S. (Econ Affairs) 1956-58; mem. Board of Dirs., Chair. Finance Cttee., Manufacturers Trust Co., New York 1958-61; Vice-Chair. of Board, Manufacturers Hanover Trust Co., New York 1961-63, Pres. 1963-71, Chair. 1971-; Commdr. Royal Order of Phoenix 1964, Gran Cruz de Isabel la Católica 1967. *Leisure interests:* Cathedral and church architecture, collecting modern art. *Address:* Manufacturers Hanover Trust Co., 350 Park Avenue, New York, N.Y. 10022 (Office); 950 Park Avenue, New York, N.Y. 10028, U.S.A. (Home).

HAUGE, Jens Chr.; Norwegian lawyer, politician and airline executive; b. 15 May 1915; ed. Oslo Univ.; leading mem. Military Organisation within Home Front Organisation from 1941; became Sec. Prime Minister Gerhardsen 1945; Minister of Defence 1945-52; practising lawyer 1952-; temporary Sec. Labour Party 1952; Minister of Justice 1955; Chair. of several Royal Comms.; Chair. of Board Royal Norwegian Airlines (now Norske Luftfartselskap A/S) 1962- (concurrently S.A.S. 1962), Norwegian State Oil Co. 1972-74, Nat. Theatre, Oslo. *Publications:* essays and books on legal and historical subjects. *Address:* c/o Norske Luftfartselskap A/S, Fornebu Airport, Oslo, Norway.

HAUGHEY, Charles James; Irish politician; b. 16 Sept. 1925, Castlebar, Co. Mayo; s. of Commandant Sean Haughey and Sarah McWilliams; m. Maureen Lemass 1951; three s. one d.; ed. Scoil Muire, Marino, Dublin, St. Joseph's Christian Brothers School,

Fairview, Dublin, Univ. Coll. and King's Inns, Dublin; commissioned Officer Reserve Defence Force 1947-57; Member Dublin Corpn. 1953-55; M.P. 1957-; Parl. Sec. to Minister for Justice 1960-61, Minister for Justice 1961-64; Minister of Agriculture and Fisheries 1964-66, Minister for Finance 1966-70, for Health and Social Welfare July 1977-; Chair. Irish Parl. Joint Cttee. on the Secondary Legislation of the European Communities 1973-77; Joint Hon. Sec. Fianna Fáil Party. *Leisure interests:* reading, music, riding, swimming. *Address:* Abbeville, Kinsealey, Malahide Co. Dublin, Ireland. *Telephone:* Dublin 450111.

HAUGHTON, Daniel Jeremiah; American aircraft executive; b. 7 Sept. 1911, Walker Co., Ala.; s. of Gayle and Mattie (Davis) Haughton; m. Martha Jean Oliver 1935; ed. Univ. of Alabama; Cost Accountant, Consolidated Aircraft Corpn. 1936-39; Lockheed Aircraft Corpn. 1939-76, Gen. Man. and Vice-Pres. 1952-56, Exec. Vice-Pres. 1956-61, Pres. 1961-67, Chair. Board of Dirs. 1967-76; Dir. subsid. cos.; Chair. Nat. Multiple Sclerosis Soc.; Dir. S. Calif. Edison Co., United Calif. Bank; mem. Board of Govs. Aerospace Industries and American Red Cross; mem. Nat. Defense Transportation Assen., Aviation Hall of Fame, Navy League of the U.S.A., Air Force Assen., Assen. of the U.S. Army, Amer. Inst. of Aeronautics and Astronautics; Hon. degrees from Univ. of Alabama, George Washington Univ., Clarkson Coll. of Technology; numerous aerospace and management awards. *Leisure interest:* fishing. *Address:* 12956 Blairwood Drive, Studio City, Calif. 91604, U.S.A.

HAUGLAND, Jens, LL.M.; Norwegian lawyer and politician; b. 16 April 1910; ed. Oslo Univ.; with firm of barristers, Stavanger 1937-38; Legal Adviser City Treas., Stavanger 1938-40; Junior Judge, Ryfylke District 1941; established own practice Kristiansand 1943; fled to Sweden where attached to Norwegian Legation 1944; resumed practice Kristiansand 1945; mem. Storting 1954-; Minister of Justice 1955-63; Minister of Municipal Affairs and Labour 1963-65; Chair. Perm. Cttee. of Justice 1967-, also Country Justice 1968-; mem. Labour Party. *Address:* The Storting, Oslo, Norway.

HAURWITZ, Bernhard, PH.D.; American (naturalized 1946) meteorologist; b. 14 Aug. 1905, Glogau, Germany; s. of Paul Haurwitz and Betty Cohn; m. 1st Eva Schick 1934 (divorced 1946), 2nd Marion B. Wood; one s.; ed. Univs. of Breslau, Göttingen, Leipzig; Privatdozent, Leipzig 1931-32; Research Assoc. Blue Hill Observatory, Harvard 1933-35; Meteorological Service of Canada 1935-41; Assoc. Prof., M.I.T. 1941-47; Prof. and Chair. Dept. of Meteorology and Oceanography, New York Univ. 1947-59; Prof. Univ. of Colo. 1959-64; Research Assoc., Nat. Center for Atmospheric Research 1964 (Dir. Advanced Study Program 1967-69); Prof. (Adjoint Emer.), Univ. of Colo. 1968; Prof. Univ. of Alaska 1970-; Prof. Colo. State Univ. 1973-; Gauss Prof. Akad. der Wissenschaften, Göttingen 1971; mem. Nat. Acad. of Sciences 1960, German Leopoldina Acad. 1964; Hon. mem. American Meteorological Soc. 1973; Rossby Award, American Meteorological Soc. 1962, Bowie Medal, American Geophysical Union 1970, Verdienstkreuz 1st class (Fed. Repub. of Germany) 1976. *Publications:* Dynamic Meteorology 1941, Climatology (co-author) 1944, over 100 articles on dynamic meteorology and oceanography. *Leisure interest:* hiking. *Address:* Department of Atmospheric Science, Colorado State University, Fort Collins, Colo. 80523, U.S.A. *Telephone:* (303)491-8541.

HAURY, Emil W., A.B., M.A., PH.D.; American university professor; b. 2 May 1904, Newton, Kans.; s. of Gustav and Clara Haury; m. Hulda Penner 1928; two s.; ed. Bethel Coll., Univ. of Ariz. and Harvard Univ.; Instructor, Univ. of Ariz. 1928-29, Research Asst. in Dendrochronology 1929-30; Asst. Dir. of Gila Pueblo, Globe, Ariz. 1930-37; Assoc. Prof. and Head of Dept. of Anthropology, Univ. of Ariz. 1937-38, Prof. and Head of Dept. and Dir. of Ariz. State Museum 1938-64, Prof. of Anthopology and Adviser to Ariz. State Museum 1964-, Fred A. Riecker Distinguished Prof. of Anthopology 1970-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc.; Hon. LL.D. (Univ. of New Mexico); Viking Fund Medal for Anthropology 1950, Univ. of Ariz. Alumni Achievement Award 1957, Univ. of Ariz. Faculty Achievement Award 1962, Salgo-Noren Foundation Award for Excellence in Teaching 1967, U.S. Dept. of Interior Conservation Service Award 1976, Alfred Vincent Kidder Award 1977. *Publications include:* The Mogollon Culture of Southwestern New Mexico (Medallion Papers No. 20) 1936, Excavation at Snaketown, Material Culture (with others, in Medallion Papers No. 25) 1937, The Excavation of Los Muertos and Neighboring Ruins in the Salt River Valley, Southern Arizona (Papers of the Peabody Museum of American Archaeology and Ethnology Vol. 24, No. 1) 1945, The Stratigraphy and Archaeology of Ventana Cave, Arizona 1950, Speculations on Prehistoric Settlement Patterns in the Southwest, (Prehistoric Settlement Patterns in the New World, Edited by G. R. Willey) 1956, The Hohokam: Desert Farmers and Craftsmen, Excavations at Snaketown, 1964-65 1976. *Address:* Department of Anthropology, University of Arizona, Tucson, Ariz. 85721; and P.O. Box 40543, Tucson, Ariz. 85717, U.S.A. *Telephone:* 884-1346.

HAUSEN, Hans Magnus, DR.PHIL; Finnish geologist; b. 1884, Helsinki; s. of Reinhold Theodor Hausen and Anna Julia Reinholdina Böning; m. Margit Svea Grandell; two d.; ed. Helsinki Univ.; Emer. Prof. of Geology and Mineralogy Åbo Acad.; mem. of the Finnish Society of Science, Geological Socs. of Helsinki and Bonn, Finnish Geographical Soc., Inst. de Estudios Canarios, Tenerife; corresp. mem. Argentine Soc. of Geographical Studies, Universidad Nacional de La Plata, Inst. del Museo; Hon. mem. Geol. Soc. of Finland; journeys to Baltic Russia 1910-13, Canada, Alaska 1913, Argentina, Chile 1914-17, Siberia 1917-20, Argentina 1922-23, Italy 1939, Canary Islands 1947, 1948-50, 1953-54, 1957, 1963, 1966-67, 1968-72; Order of White Rose (Finland); Hon. Medal Acad. of Åbo. *Publications:* 60 books and papers, including: Maeterialien zur Kenntnis der pleistozänen Bildungen in den russischen Ostseeländern 1913, On the Lithology and Geological Structure of the Sierra de Umango Area, Province of La Rioja, Argentina 1921, Die Apatite 1929, Geologische Beobachtungen in den Hockgebirgen der Provinzen Salta und Jujuy, N.W. Argentinien 1930, Zur Kenntnis der Magmengesteine der chilenischen Atacama-Wüste 1937, Das Halditjokko-Massiv 1942, Hidrografia de las Islas Canarias 1954; with geological maps: Contribution to the Geology of Tenerife (Canary Islands) 1956, On the Geology of Fuerteventura (Canary Islands) 1958, On the Geology of Lanzarote and adjacent islands (Canarian Archipelago) 1959, New Contribution to the Geology of Grand Canary 1962, The History of Geology and Mineralogy in Finland 1828-1918 1968, Some contributions to the Geology of La Palma, Canary Islands 1969, Outlines of the Geology of Gomera 1971, Outlines of the Geology of Hierro (Canary Islands) 1973. *Address:* Armas Lindgrensväg 7, 00570 Helsinki 57, Finland.

HAUSER, Erich; German sculptor; b. 1930, Rietheim, Kr. Tübingen; ed. Volksschule, Rietheim, Oberschule, Spaichingen and evening classes at Freie Kunstschule, Stuttgart; studied engraving in Tuttlingen and drawing and modelling under Pater Ansgar, Kloster Beuron; independent sculptor, Schramberg 1952; Visiting Lecturer, Hochschule für bildende Künste, Hamburg 1964-65; has held many one-man exhbns. in galleries throughout Germany and in Austria and Switzerland since 1961; has participated in many group exhbns. in Europe, New Delhi, Cairo and the São Paulo Biennale 1969; has executed sculptures for many public buildings in Germany including Säulenwand for Univ. of Konstanz, a relief for theatre foyer, Bonn and a sculpture for the Düsseldorf Stock Exchange; mem. Akad. der Künste, Berlin; Kunstpreis der Stadt Wolfsburg für Plastik 1965, Burdapreis für Plastik 1966, Premio Itamaraty 1969, Grand Prix, São Paulo Biennale 1969, etc. *Address:* 7210 Rottweil-Altstadt, Saline, Federal Republic of Germany. *Telephone:* (0741) 6751.

HAUSER, Philip M., PH.D.; American sociologist; b. 27 Sept. 1909, Chicago, Ill.; m. Zelda B. Hauser; one s. one d.; ed. Univ. of Chicago; Deputy Dir., U.S. Bureau of the Census 1938-47, Acting Dir. 1949-50; Asst. to Sec. of Commerce and Dir., Office of Program Planning, U.S. Dept, of Commerce 1945-47; U.S. Rep. to Population Comm., UN 1947-51; Statistical Adviser to Govt. of Union of Burma 1951-52; Statistical Adviser, Thailand 1955-56; Prof. of Sociology, Dir. Population Research Center and Chicago Community Inventory, Univ. of Chicago 1932-47, 1947-; Chair. Dept. of Sociology, Univ. of Chicago 1956-65; mem. Board, UN Inst. for Research in Social Devt., Geneva 1966-73, Exec. Cttee. Southeast Asia Devt. Advisory Group 1968-71, Statistical Policy Cttee., U.S. Bureau of the Budget, Board of Dirs., Nat. Assembly for Social Policy and Devt. 1968-, Advisory Cttee., The Population Council; mem. Council, Nat. Inst. of Child Health and Human Devt. 1965-69; Chair. Technical Advisory Cttee. for Population statistics, U.S. Bureau of the Census, Census Advisory Cttee., American Statistical Assen.; Assoc. Leo J. Shapiro and Assoc. Int. 1977-; Fellow, American Assen. for the Advancement of Science, American Statistical Assen.; mem. and fmr. Pres. American Sociological Assen., Population Assen. of America, Sociological Research Assen.; mem. American Philosophical Soc., Int. Statistical Inst. *Publications:* Several books on population, urbanization and other sociological subjects; about 450 articles in professional journals. *Address:* 5729 Kimbark Avenue, Chicago, Ill. 60637, U.S.A. (Home).

HÄUSER, Rudolf; Austrian politician; b. 19 March 1909, Vienna; m.; four c.; ed. vocational secondary school, Vienna; Instructor, Jugend am Werk; with Milchindustrie A.G. 1937-59; Deputy Chair. Non-Governmental White-Collar Workers Union 1950-60, Exec. Chair. 1962-60, Chair. 1962; Vice-Chair. Austrian Trade Union Fed. 1963; mem. Nationalrat 1962-; Vice-Chancellor and Fed. Minister for Social Welfare 1970-76. *Address:* Nationalrat, Vienna, Austria.

HAUSMANN, Manfred, DR.PHIL.; German writer; b. 10 Sept. 1898; ed. Univs. of Göttingen, Munich and Heidelberg; served in Army 1916-18; merchant in Bremen 1922-24; on editorial staff of Weser-Zeitung Bremen 1924-27, of Weser-Kurier 1945-52. *Publications:* Frühlingsfeier 1925, Marienkind (Legendenspiel) 1927, Lilofee (drama) 1927; Lampioon 1928, Salut gen Himmel 1929, Kleine Liebe zu Amerika 1930, Abel mit der Mundharmonika 1932, Abschied von Traum der Jugend 1938, Das Worpsweder Hirtenspiel 1942, Das Erwachen (translations of Greek poems) 1949, Der dunkle Reigen (drama) 1949, Gedichte 1949, Martin 1949, Einer muss Wachen 1950, Liebe, Tod und Vollmondnächte (translations of Japanese poems) 1951, Der Ueberfall 1952, Liebende leben von der Vergebung 1953, Isabel 1953, Hafenbar (drama) 1953, Hinter dem Perlenvorhang (translations of Chinese poems) 1954, Die Entscheidung 1954, Der Fischbecker Wandteppich (drama) 1955, Was dir nicht angehört 1956, Andreas 1957, Aufruhr in der Markthirche (drama) 1957, Das Lied der Lieder (translations of Hebrew poems) 1958, Die Zauberin von Buxtehude (drama) 1959, Tröstliche Zeichen (essays) 1959, Irrsal der Liebe (poems), 1960 Heute Noch (short story) 1962, Kleiner Stern im Dunklen Strom 1963, Gelöstes Haar (translations of Japanese poems) 1964, Sternsagen 1965, Und wie Musik in der Nacht 1965, Kassel (Porträt einer Stadt) 1965, Und es geschah (gedanken zur Bibel) 1965, Brüderliche Welt 1965, Spiegel des Lebens 1966, Hinter den Dingen 1967, Kreise um eine Mitte 1968, Wort vom Wort 1968, Gottes Ja 1968, Keiner weiss die Stunde 1970, Der golddurchwirkte Schleier 1970, Das abgründige Geheimnis 1972, Wenn dieses alles Faulheit ist 1972, Jahre des Lebens 1973, Kleine Begegnungen mit grossen Leuten 1973, Im Spiegel der Errinerung 1974, Nüchternheit 1975. *Address:* Dillener Strasse 49, 2820 Bremen 71, Federal Republic of Germany. *Telephone:* 0421-603724.

HAUSNER, Gideon; Israeli lawyer; b. 26 Sept. 1915, Lvov, U.S.S.R.; s. of Dr. Bernard and Ema Hausner; m. Yehudit Liphshitz 1944; one s. one d.; ed. Hebrew Coll. Herzliya, Hebrew Univ; Lecturer in Law Hebrew Univ. 1954-60; del. to Zionist Congresses 1954, 1956, 1964; Attorney-Gen. 1960-63; Chief Prosecutor Eichmann Trial 1961-62; mem. Knesset (Parl.) 1965-; Chair. Independent Liberal Party Parl. Group 1967-74; Minister without Portfolio 1974-77; Chair. Yad Vashem (Commemoration Authority for Martyrs of World War II) 1969-. *Publications:* Justice in Jerusalem 1966, and articles in law journals and general publications 1941-. *Leisure interest:* photography. *Address:* 6 Bartanura Street, Jerusalem, Israel.

HAUSPURG, Arthur, M.S.E.E., F.I.E.E.E.; American business executive; b. 27 Aug. 1925, New York; s. of Otto and Charlotte (Braul) Hauspurg; m. Catherine Dunning Mackay 1947; three s.; ed. Columbia Univ., New York. Asst. Vice-Pres. American Electric Power Corpn. 1968; Vice-Pres. Consolidated Edison Co. of New York Inc. 1969, Sr. Vice-Pres. 1973, Exec. Vice-Pres. 1975, Chief Operating Officer 1975-, Pres. Nov. 1975-; mem. of numerous bodies including Nat. Acad. of Eng. *Publications:* numerous articles and papers on engineering. *Address:* 4 Irving Place, New York, N.Y. 10003, U.S.A. (Office).

HAVASI, Ferenc; Hungarian politician; b. 20 Feb. 1929, Piszke; s. of János Havasi and Ilona Trencsik; m. Margit Mikits 1953; one s.; started as semi-skilled worker in cement factory; became mason's mate; joined Young Workers' Movement after World War II; joined Hungarian Communist Party 1948 (merged to form Hungarian Socialist Workers' Party 1956); Sec. local party org. in factory 1949-50; Head of Dept., Tatabánya Municipal Party Cttee. 1951; Head of Agitation and Propaganda Dept., Komárom County Party Cttee. 1952, Second Sec. 1954. First Sec. 1966-75; mem. Cen. Cttee. HSWP 1966-, Sec. 1978-; Deputy Prime Minister 1975-78, responsibility for Econ. Affairs 1978-; Workers and Peasants Power Order of Merit, Labour Order of Merit; Hungarian Freedom Order of Merit. *Address:* Magyar Szocialista Munkáspárt, 1387 Budapest, Széchenyi rakpart 19, Hungary.

HAVEL, Václav; Czechoslovak playwright; b. 5 Oct. 1936, Prague; s. of Václav M. Havel and Božena (Vavrečková) Havel; m. Olga Šplíchalová; ed. Acad. of Arts, Drama Dept., Prague; works freelance; fmr. spokesman for Charter 77 human rights movement, received a sentence of 14 months in 1977, suspended for 3 years, for "subversive" and "antistate" activities, under house arrest 1977-; Austrian State Prize for European Literature 1969. *Publications:* Garden Party 1963, The Memorandum 1965, The Increased Difficulty of Concentration 1968, The Conspirators 1971, The Beggar's Opera 1972, Audience 1975, Vernissage 1975 (plays). *Address:* Udejvického rybníčku 4, 1600 Prague 6, Czechoslovakia. *Telephone:* 3299592.

HAVELANGE, Jean Marie Faustin Godefroid (João); Brazilian lawyer; b. 8 May 1916, Rio de Janeiro; m. Head of Importation and Exportation, Cia. Siderúrgica Belgo-Mineira 1937-41; Dir.-Pres. Viação Cometa S.A., EMBRADATA, Orwec Química e Metalúrgica Ltda.; took part at Olympic Games as swimmer, Berlin 1936, as water-polo player, Helsinki 1952, Head of Brazilian Del., Sydney 1956; Pres. Fed. Metropolitan de Natacao (GB) 1952-56; mem. Brazilian Olympic Cttee. 1956-73; Vice-Pres. Confed. Brasileira de Desportos 1956-58, Pres. 1958-73; mem. Int. Olympic Cttee. 1963-; Pres. Indoor Football Int. Fed. (FIFUSA) 1971; Pres. Int. Fed. of Assen. Football (FIFA) 1974-; Portuguese and Brazilian decorations. *Leisure interest:* swimming on Sundays. *Address:* c/o Fédération Internationale de Football Association, Hitzigweg 11, 8032 Zurich, Switzerland.

HAVELKA, Jaroslav, LL.D., C.SC.; Czechoslovak politician; b. 19 Feb. 1917, Prague; ed. Law Faculty, Charles Univ.; mem. Central Council of Trade Unions 1945-47, Central Action Cttee. of Nat. Front 1948-49; Deputy Minister, State Office for Church Affairs 1949-51; Minister, Ministry of Labour Force 1951-53; Chair. State Office for Church Affairs 1953-56; Deputy Minister of Educ. and Culture 1956-58; Amb. to Sweden 1958-62; Dept. Head, State Planning Comm. 1962-63; Head of Univs. and Colls. Dept., Ministry of Educ. and Culture 1963-67; Dir. of Dept. for Long-term Devt., Econ. and Technical Progress, Ministry of Educ. 1967-68; Deputy Minister of Educ. 1968, Minister and Chair. of Cttee. for Press and Information, Fed. Govt. of Czechoslovakia Jan.-Sept. 1969; Deputy Minister of Labour and Social Affairs, Fed. Govt. of Czechoslovakia Dec. 1969-; Alt. mem. Cen. Cttee. of CP 1954-62; mem. Nat. Assembly 1948-54; Sec. Govt. Population Comm. 1972-; Chair. Scandinavian Cttee. of Czechoslovak Soc. for Int. Relations 1972-; Order of Labour 1960, Order of the Repub. 1968. *Address:* Ministry of Labour and Social Affairs, Prague, Czechoslovakia.

HAVERS, Rt. Hon. Sir (Robert) Michael (Oldfield), Kt., P.C., Q.C., M.P.; British lawyer and politician; b. 10 March 1923; s. of Sir Cecil Havers and late Enid Snelling; m. Carol Elizabeth Lay 1949, two s.; ed. Westminster School, Corpus Christi Coll., Cambridge. Lieut. R.N.V.R. 1941-46; called to the bar, Inner Temple 1948; Master of the Bench 1971; Recorder of Dover 1962-68, of Norwich 1968-71; a Recorder 1972; Chancellor of St. Edmundsbury Diocese and Ipswich Diocese 1965-73, of Ely Diocese 1969-73; Solicitor Gen. 1972-74; M.P. for Wimbledon 1970-74, for Merton, Wimbledon 1974-; Shadow Attorney Gen. and Legal Adviser to Shadow Cabt. 1974-79; Attorney General May 1979-; Conservative. *Publication:* The Royal Baccarat Scandal (co-author) 1977. *Leisure interests:* reading, photography. *Address:* House of Commons, Westminster, London, S.W.1; 5 King's Bench Walk, Temple, E.C.4; White Shutters, Ousden, Newmarket, England (Home). *Telephone:* 01-353 4713 (Temple).

HAVILAND, Denis William Garstin Latimer, M.A., F.B.I.M., F.R.S.A., C.B.; British industrialist; b. 15 Aug. 1910, London; s. of William Alexander Haviland and Edyth Louise Latimer; ed. Rugby School and St. John's Coll., Cambridge; London Midland and Scottish Railway 1934-39; Army service 1940-46, rising to rank of Col.; Principal, Control Office for Germany and Austria 1946-47; Asst. Sec. Foreign Office, German Section 1947-50; Imperial Defence Coll. 1950-; Ministry of Supply 1951-59, Under-Sec. 1953-59, Deputy Sec. 1959; Deputy Sec. Ministry of Aviation 1959-64; Chair. European Launcher Devt. Org. (ELDO) Preparatory Group 1962-64; Deputy Chair. Staveley Industries 1964-65, Chair. and Man. Dir. 1965-69; Dir. Wheelabrator Corpn. of Mishawaka 1967-72, Short Brothers, Organized Office Designs; mem. Council British Inst. of Management 1967- (Vice-Chair. 1973), Chair. Professional Standards Cttee. 1977-, Academic Cttee. 1977-; mem. Management Board, Council for Nat. Academic Awards, mem. of court, Cranfield Inst. of Tech. Man.; Fellow Inst. of Works Man.; Coachmakers Livery. *Address:* 113 Hampstead Way, London, N.W.11, England (Office and Home). *Telephone:* 01-455 2638.

HAVREVOLD, Finn; Norwegian author and critic; b. 11 Aug. 1905, Oslo; s. of Lauritz Paulsen and Marta Malene (Nielsen) Havrevold; m. Gunvor Øwre 1939; two d.; ed. Norges Tekniske Høyskole; qualified architect 1929; book designer and illustrator; author 1939; radio critic Dagbladet 1951-; dramatic critic Urd 1956-; Damm Prize 1955 and 1957, Damm-Allers Prize, Film Prize 1960, Prix Italia 1970, Nordic Radio Prize 1970. *Publications:* novels: Til de dristige 1946, Walter den fredsommelige 1947, Skredet 1949, Den Ytterste Dag 1963, De gjenstridige 1965, Bld rytter 1968, Pilen i lyset 1971, Under samme tak 1972, De nådelöse 1975, Vennskap 1976, I fjor sommer 1977, Vinter i Vallegaten 1978; short stories: Det raker ikke Andersen 1939, Tapere 1974; children's books: Sommereventyret 1952, Drommeveggen 1953, Den ensomme kriger 1955, Marens lille ugle 1957, Viggo 1957, Grunnbrott 1960, Jeg flykter i natt 1963, Putsja 1967, Lommekniven 1969; plays: Jubileum 1951, Uretten 1955, Sommerhuset 1957, Tomannsboligen

1959, Stakkars Anton 1961, Regissøren 1964, Gruppen 1964; biography: Helge Krog 1959; radio plays: Sensommer, Wilhelm og Alice, Eskapade, Katastrofe 1960, Arabesk, I Kveldingen, Svalene Flyr, Lavt, Hjemturen 1961, Brev til Tom 1962, Dikterjubileum 1963, Helens dagbok 1964, Duellen 1965, Situasjon 1967, Landskapet 1967, Leke blindebukk 1968, En benk i parken 1970, Credo 1970, Avreisen, Brødre, Gisselet 1972, Revolusjonsetyde 1974; *TV play:* En Smule Kjaerlighet 1961; *film scenarios:* Drapen '1960, Farlig Kurs 1964; *essays:* Refleksjorner om dramatikk og mennesker 1975. *Leisure interests:* painting, fishing, skiing. *Address:* Thomas Heftyes Gate 64C, Oslo 2, Norway. *Telephone:* 56-39-64.

HAWARI AHMED, Mahmoud el-; Egyptian journalist; b. 12 April 1921; s. of Ahmed Farid and Hayat Ali; m. Sadia El-Kilani 1949; one d.; ed. Polytechnic School, Cairo; Dir., Arab Information Centre Press Office, New York 1955-58; Man. Editor, Middle East News Agency, Cairo 1958-65, fmr. Chair. of Board; Dir. Magazine Dept., Nat. Publishing House 1965-67; Chair. Nat. Distributing Co. 1967; Publishing Man. Al-katib Al-Arabi Publishing House 1967-69; Adviser, Editing and Publishing Org. 1969-71; Dir.-Gen. Egyptian Book Org. 1971-72; Under-Sec. of State, Ministry of Information Feb. 1976-; Gold Cross, Order of King George I of Greece 1960. *Leisure interest:* painting. *Address:* c/o Ministry of Information, Kornich El-Nil, Cairo, Egypt. *Telephone:* 988806 (Office); 28537 (Home).

HAWKE, Robert James Lee, A.C., B.A., LL.B., B.LITT.; Australian trade union executive; b. 9 Dec. 1929, Bordertown, S. Australia; s. of A. C. Hawke; m. Hazel Masterson 1956; one s. two d.; ed. Univs. of Western Australia and Oxford; Rhodes scholar 1953; Research Officer, Australian Council of Trade Unions 1958-70, Pres. 1970-; Senior Vice-Pres. Australian Labor Party 1971-73, Pres. 1973-78; mem. Board Reserve Bank of Australia 1973-, Gov. Body ILO, Australian Council for Union Training, Australian Population and Immigration Council; mem. Australian Manufacturing Council 1977, Nat. Labour Consultative Council 1977-. *Leisure interests:* tennis, golf, cricket, reading. *Address:* Australian Council of Trade Unions, 5th Floor, 254 Latrobe Street, Melbourne 3000, Victoria, Australia. *Telephone:* 347-3966.

HAWKER, Sir (Frank) Cyril, Kt.; British banker; b. 21 July 1900, London; s. of Frank Charley and Bertha Mary (Bastow) Hawker; m. Marjorie Ann Pearce; three d.; ed. City of London School; Bank of England 1920, Deputy Chief Cashier 1944-48, Chief Accountant 1948-53, Adviser to Governors 1953-54, Exec. Dir. 1954-62; Chair. The Standard Bank Ltd. 1962-74, The Chartered Bank 1973-74, Standard and Chartered Banking Group 1969-74, Standard Bank of West Africa Ltd. 1965-73; Deputy Chair. Midland and Int. Banks 1969-74; Dir. Head Wrightson & Co. Ltd. 1962-77; Dir. Davy Int. Ltd. 1977-; Hon. Treas. and Chair. Finance Cttee., Nat. Playing Fields Assn. 1958-76, Union Zaïroise de Banques 1971-74; High Sheriff of County of London 1963; Pres. Minor Counties Cricket Assn. 1968, MCC 1970-71; Dir. Davy Int. Ltd. 1977-. *Leisure interest:* cricket. *Address:* Pounsley Lodge, Blackboys, Nr. Uckfield, Sussex, England (Home). *Telephone:* Hadlow Donn 250.

HAWKES, (Charles Francis) Christopher, M.A., F.B.A., F.S.A.; British archaeologist; b. 5 June 1905, London; s. of late Charles Pascoe and Eleanor Victoria Hawkes (née Cobb); m. 1st Jessie Jacquetta Hopkins (*q.v.* Jacquetta Hawkes) 1933 (divorced 1953), one s.; m. 2nd Sonia Elizabeth Chadwick 1959; ed. Winchester Coll., and New Coll., Oxford; Asst., Dept. of British and Medieval Antiquities, British Museum 1928, Asst. Keeper, promoted to 1st Class 1938; Ministry of Aircraft Production 1940-45; returned to British Museum 1945, in charge of Prehistoric and Romano-British Antiquities 1946; Prof. of European Archaeology, Oxford Univ. 1946-72; Fellow Keble Coll., Hon. Fellow 1972; Prof.-in-charge, Inst. of Archaeology 1961-72; elected Nat. Sec. (U.K.) on Council Int. Congress of Prehistoric and Protohistoric Sciences 1931, full mem. 1948, mem. Exec. Cttee. 1950, Cttee. of Honour 1971; excavations on various sites in U.K. and Europe 1925-64; Editor Archaeological Journal London 1944-50; Pres. Prehistoric Society 1950-54, Council for British Archaeology 1961-64; Editor Inventaria Archaeologica for Great Britain 1954-76; mem. German Archaeological Inst.; Corresp. mem. Royal Irish Acad., Swiss Soc. for Prehistory; Hon. Dr. (Rennes) 1971, Hon. D.Litt. (Ireland) 1972. *Publications:* St Catharine's Hill, Winchester (with J. N. L. Myres and C. G. Stevens) 1931, Archaeology in England and Wales, 1914-31 (with T. D. Kendrick) 1932, Winchester College 1933, The Prehistoric Foundations of Europe 1940, Prehistoric Britain (with Jacquetta Hawkes) 1944, Camulodunum: The Excavations at Colchester, 1930-39 (with M. R. Hull) 1947, Contrib. and Editor (with Sonia Hawkes) Archaeology into History Vol. I 1973, Contrib. and Editor (with P. M. Duval) Celtic Art in Ancient Europe 1976. *Address:* 19 Walton Street, Oxford, England. *Telephone:* 56949.

HAWKES, Jacquetta, O.B.E., M.A.; British author and archaeologist; b. 1910, Cambridge; d. of Sir Frederick Gowland Hopkins, O.M. (Nobel prize winner) and Lady Hopkins (née Stephens); m. 1st Prof. (Charles Francis) Christopher Hawkes (*q.v.*) 1933 (divorced 1953), one s.; 2nd J. B. Priestley (*q.v.*) 1953; ed. Perse School and Newnham Coll., Cambridge; archaeological activities in Great Britain, Eire, France and Palestine 1931-40; Asst. Principal, Post-War Reconstruction Secretariat 1941-43; with Ministry of Education, Sec., U.K. Nat. Comm. for UNESCO 1943-49 (retd.); Vice-Pres. Council for British Archaeology 1949-52; Archaeological Adviser, Festival of Britain 1949-51; Gov. British Film Inst. 1950-55; mem. Culture Advisory Cttee., UNESCO 1966-; Author Editor (with Frankfort and Woolley) UNESCO History of Mankind (Vol. I); Archaeological Corresp. Sunday Times; Kemsley Award for A Land 1951. *Publications:* Archaeology of Jersey 1939, Prehistoric Britain (with Christopher Hawkes) 1944, Early Britain 1945, Symbols and Speculations (poems) 1948, A Land 1951, Guide to Prehistoric and Roman Monuments in England and Wales 1951, Dragon's Mouth (play), Fables 1953, Man on Earth 1954, Journey Down a Rainbow (with J. B. Priestley) 1955, Providence Island 1959, Man and the Sun 1962, Prehistory and the Beginnings of Civlization (with Sir Leonard Woolley) 1963, The World of the Past 1963, King of the Two Lands 1966, The Pharoes of Egypt 1967, Dawn of the Gods 1968, The First Great Civilizations 1973, Editor Atlas of Ancient Archaeology 1974, Atlas of Early Man 1976. *Leisure interests:* pictures, antiques, gardening, natural history. *Address:* B3, Albany, London, W.1; and Kissing Tree House, Alveston, Stratford-on-Avon, Warwickshire, England. *Telephone:* 01-734 6150; Stratford-on-Avon 3798.

HAWKES, John; American writer; b. 17 Aug. 1925, Stamford, Conn.; m. Sophie Tazewell 1947; three s. one d.; ed. Harvard Coll.; Visiting Lecturer and Instructor, Harvard Univ. 1955-58; Asst. Prof. Brown Univ. 1958-62, Assoc. Prof. 1962-67, Prof. 1967-73; Univ. Prof. 1973-; Guggenheim Fellowship; Ford Foundation Fellowship; Rockefeller Foundation Fellowship; Grant in Fiction, Nat. Inst. of Arts and Letters; Prix de Meilleur Livre Etranger. *Publications:* novels: The Cannibal 1949, The Beetle Leg 1951, The Lime Twig 1961, Second Skin 1964, The Blood Oranges 1971, Death, Sleep and the Traveller 1974, Travesty 1976; plays: The Innocent Party (a collection of 4 short plays) 1966; collected stories and short novels: Lunar Landscapes 1969. *Address:* Department of English, Brown University, Providence, Rhode Island 02912, U.S.A. *Telephone:* (401)863-2393.

HAWKINS, Sir Arthur (Ernest), Kt., C.ENG., F.I.MECH.E., F.I.E.E., F.INST.F., F.B.I.M.; British engineer; b. 10 June 1913, Wiltshire; s. of Rev. H. R. and Louisa Hawkins; m. L. Judith T. Draper 1939; one s. two d.; ed. The Blue School, Wells, The Grammar School, Great Yarmouth and City of Norwich Technical Coll.; District Man., S.E. Electricity Board, Croydon 1948; Chief Asst. Engineer, System Operation Branch, British Electricity Authority 1951; Personal Engineering Asst. to Chief Engineer 1954; System Planning Engineer, Central Electricity Generating Board (CEGB) 1957; Chief Operations Engineer, CEGB 1959-64; Midlands Regional Dir. CEGB 1964-70; mem. Cen. Electricity Generating Board 1970-72, Chair. 1972-77; Chair. F. International Ltd. 1978-. *Publications:* articles in Journal of Management Studies and various papers to technical insts. *Leisure interests:* fell walking, swimming, motoring. *Address:* 61 Rowan Road, Brook Green, London, W.6, England. *Telephone:* 01-603 2849.

HAWKINS, Roger Tancred Robert; Rhodesian politician; b. 25 April 1915, Letchworth, Herts., England; s. of Harry Bradford Tancred and Irene Maude (née Tancred) Hawkins; ed. Bedford Modern School, and King's Coll., London; became Mem. of Parliament (Rhodesian Front) for Charter Constituency 1964-70, for Midlands 1970-74, for Gwelo 1974-78; Minister of Transport and Power and of Roads and Road Traffic 1970-77, of Posts 1975-77, of Combined Operations 1977-78, also of Defence Sept. 1977-78; Deputy Chair. Council of War March 1977-78; mine owner and operator; dir. numerous cos.; mem. Exec. Cttee. Rhodesian Chamber of Mines 1964-66; fmr. Chair. Rhodesian Mining Fed.; Independence Commemorative Decoration; Grand Officer, Legion of Merit. *Leisure interest:* gardening. *Address:* Brampton, P.O. Box 118, Selukwe, Zimbabwe Rhodesia. *Telephone:* Selukwe 400 (Home).

HAWLEY, Sir Donald Frederick, K.C.M.G., M.B.E., M.A.; British diplomatist; b. 22 May 1921, Essex; s. of the late F. G. and G. E. C. (née Hills) Hawley; m. Ruth Morwenna Graham 1964; one s. three d.; ed. Radley, New Coll., Oxford; served with H.M. Forces 1941-44; Sudan Political Service 1944-47; Sudan Judiciary 1947-55; Foreign Office 1956-58; H.M. Political Agent, Trucial States 1958-61; Head of Chancery British Embassy, Cairo 1962-64; Counsellor, High Commission, Lagos 1965-67; Counsellor (Commercial), Bagh-

dad 1968-71; Amb. to Oman and Muscat 1971-75; Asst. Under Sec. of State, Foreign and Commonwealth Office 1975-77; High Commr. to Malaysia 1977-; Chair. Anglo-Omani Soc. 1975-77. *Publications:* Courtesies in the Trucial States 1965, The Trucial States 1970, Oman and its Renaissance 1977, Courtesies in the Gulf Area 1978. *Leisure interests:* tennis, squash, sailing, golf, book-collecting. *Address:* British High Commission, P.O. Box 1030, Kuala Lumpur, Malaysia; West Pulridge, Little Gaddesden, Berkhamsted, Hertfordshire, HP4 1PP, England (Home).

HAWORTH, Leland John, PH.D.; American nuclear physicist (retd.); b. 11 July 1904, Flint, Mich.; s. of Paul L. and Martha (née Ackerman) Haworth; m. 1st Barbara Mottier 1927 (died 1961), 2nd Irene Benik 1963; one s. one d.; ed. Indiana Univ. and Univ. of Wisconsin; High school teacher, Indianapolis 1926-28; Instructor in Physics, Univ. of Wis. 1930-37; Lalor Fellow in Physical Chemistry, M.I.T. 1937-38; Assoc. in Physics, Univ. of Ill. 1938-39, Asst. Prof. 1939-44, Prof. 1944-47; Staff mem. Radiation Laboratory, M.I.T. 1941-45; Asst. Dir. Brookhaven Nat. Laboratory 1947-48, Dir. 1948-61; Vice-Pres., Assoc. Univs. Inc. 1951-60, Pres. 1960-61; mem. U.S. Atomic Energy Comm. 1961-63; Dir. Nat. Science Foundation 1963-69; Special Asst. to Pres., Assoc. Univs. Inc. 1969-76; Adviser, President's Science Advisory Cttee. 1963-69; Pres. American Nuclear Soc. 1958-59; mem. Fed. Council for Science and Tech. 1963-69, Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences, etc.; Fellow American Nuclear Soc., American Physical Soc., New York Acad. of Sciences; numerous hon. degrees. *Publications:* Papers in fields of surface structure of metals, secondary electron emission, low temperature research, nuclear physics, high energy physics, especially very high energy accelerators, electronics. *Leisure interests:* photography, gardening. *Address:* 15 Deer Path, Belle Terre, Port Jefferson, N.Y. 11777, U.S.A. (Home). *Telephone:* 473-4129.

HAWORTH, Lionel, O.B.E., F.R.S.; British aeronautical engineer; b. 4 Aug. 1912, S. Africa; s. of John B. and Anna S. (née Ackerman) Haworth; m. Joan I. Bradbury 1956; one s. one d.; ed. Rondebosch Boys' High School and Univ. of Cape Town; Graduate apprenticeship with Associated Equipment Co. 1934; Designer Rolls-Royce Ltd., Derby 1936, Asst. Chief Designer 1944; Dep. Chief Designer, Aero Division 1951, Chief Designer (Civil Engines), Aero Div. 1954, Chief Engineer (Propeller Turbines), Aero Div. 1962; Chief Design Consultant, Bristol Siddeley Engines Ltd. 1963, Chief Designer 1964; Dir. of Design, Bristol Siddeley Engines Ltd., Bristol Engine Div. 1965; Dir. of Design, Rolls-Royce Ltd., Bristol Engine Div. 1968, Dir. of Design, Rolls-Royce (1971) Ltd., Bristol Engine Div. 1971-77; Eng. Consultant, Lionel Haworth and Assocs. 1977; Founder Fellow, Fellowship of Eng. 1975; Bronze Medal, Royal Aeronautical Soc., British Gold Medal for Aeronautics 1971, Royal Designer for Industry (R.D.I.) 1976. *Leisure interest:* sailing. *Address:* Rolls-Royce (1971) Ltd., Bristol Engine Division, P.O. Box 3, Filton, Bristol BS12 7QE (Office); 10 Hazelwood Road, Sneyd Park, Bristol 9, England (Home). *Telephone:* Bristol 693871, Ext. 653 (Office); Bristol 683032 (Home).

HAWTHORNE, Sir William (Rede), Kt., C.B.E., M.A., SC.D., F.R.S., F.INST.MECH.E., F.R.AE.S; British professor of applied thermodynamics; b. 22 May 1913, Benton, Newcastle-on-Tyne; s. of William Hawthorne and Elizabeth Curle Hawthorne; m. Barbara Runkle 1939; one s. two d.; ed. Westminster School, London, Trinity Coll., Cambridge, and Mass. Inst. of Technology, U.S.A.; Devt. Eng., Babcock & Wilcox Ltd. 1937-39; Scientific officer, Royal Aircraft Establishment 1940-44; British Air Comm., Washington, D.C. 1944-45; Deputy Dir. of Engine Research, Ministry of Supply (U.K.) 1945-46; Assoc. Prof. of Mechanical Engineering M.I.T. 1946-48; George Westinghouse Prof. of Mechanical Engineering, M.I.T. 1948-51; Prof. of Applied Thermodynamics Univ. of Cambridge 1951-, Head of Engineering Dept. 1968-73; Fellow, Trinity Coll., Cambridge 1951-68; Master of Churchill Coll., Cambridge 1968-; Hunsaker Prof. of Aeronautical Engineering, M.I.T. 1955-56; Visiting Inst. Prof., M.I.T. 1962-63; mem. of Corpn. of M.I.T. 1969-73; Chair. Home Office Scientific Advisory Council 1967-77, Advisory Council on Energy Conservation 1974-; Foreign Assoc. U.S. Nat. Acad. of Sciences, U.S. Nat. Acad. of Engineering; Vice-Pres. Royal Soc. 1969-70; mem. Electricity Supply Research Council 1953-, Standing Comm. on Energy and the Environment 1978-; Hon. Fellow, Royal Aeronautical Soc., American Inst. of Aeronautics and Astronautics; Hon. D.Eng. (Sheffield) 1976; Medal of Freedom (U.S.A.) 1957. *Address:* The Master's Lodge, Churchill College, Cambridge, England; 19 Chauncy Street, Cambridge, Mass. 02138, U.S.A. *Telephone:* Cambridge 61200.

HAXEL, Otto Philipp Leonhard, D.RER.NAT; German physicist; b. 2 April 1909; two s.; ed. Tübingen, Munich and Berlin Univs.; Lecturer, Berlin Technical High School 1937-45, Max Planck Physics Inst., Göttingen 1945-50; Dir. Second Physical Inst., Heidelberg Univ. 1950-69; Technical-Scientific Dir., Nuclear Research Centre, Karlsruhe 1970-74; Dr. h.c.; mem. Heidelberger Akad. der Wissenschaften, Deutsche Akad. der Naturforscher Leopoldina. *Address:* Pascalstrasse 8, Karlsruhe-Waldstadt, Federal Republic of Germany. *Telephone:* 62-27-73.

HAY, Alexandre, L. EN D.; Swiss lawyer; b. 29 Oct. 1919, Berne; m. Hélène Morin Pons 1945 (died 1973); two s. two d.; ed. Univ. of Geneva; Fed. Political Dept. (Financial Affairs), Berne 1945-48; Swiss Legation, Paris 1948-53; Head of Div., Swiss Nat. Bank, Zürich 1953-55; Dir. and Asst. to Head of Second Dept., Swiss Nat. Bank, Berne 1955-66, Head of Second Dept. and Vice-Pres. Gen., Management 1966-; mem. Cttee. on European Monetary Agreement 1950-62, Pres. 1962-73; Pres. Int. Cttee. of Red Cross July 1976-, also Pres. Exec. Board. *Address:* International Committee of the Red Cross, 17 avenue de la Paix, CH 1211 Geneva (Office); 12 place du Grand-Mézel, CH 1211, Geneva, Switzerland (Home). *Telephone:* 34-60-01 (Office); 28-86-75 (Home).

HAY, Sir David Osborne, Kt., C.B.E., D.S.O., B.A.; Australian public servant; b. 1916, Corowa, N.S.W.; s. of late H. A. Hay and Marjory Moule; m. Alison Adams 1944; two s.; ed. Geelong Grammar School, Brasenose Coll., Oxford, and Melbourne Univ.; joined Australian Dept. of External Affairs 1939 and rejoined 1946, after army service 1939-45; Del. to UN 1949 and 1950; served Ottawa 1950-52; attended Imperial Defence Coll., London 1954; Minister of Thailand 1955-56, Amb. 1956-57, concurrently Rep. to SEATO; Asst. Sec. Department of External Affairs 1957-61; High Commr. to Canada 1961-64; Amb. and Perm. Rep. of Australia to the UN 1963-65; Ministry of External Affairs 1965-66, Administrator, Territory of Papua and New Guinea 1967-70; Sec. Dept. of External Territories 1970-73; Defence Force Ombudsman 1974-76; Sec. Dept. of Aboriginal Affairs 1976.- *Leisure interests:* skiing, sailing, gardening. *Address:* 10 Hotham Crescent, Deakin, A.C.T., Australia. *Telephone:* Canberra 731705.

HAYA DE LA TORRE, Victor Raúl; Peruvian politician; b. 1895; ed. Univ. of Oxford and Univ. Nacional Mayor de San Marcos de Lima; exiled to Mexico 1923-30; Founder and Leader Alianza Popular Revolucionaria Americana (APRA) 1930-; candidate for Pres. 1931; imprisoned 1932-33; Political Refugee, Colombian Embassy, Lima 1948-53; exile in Panama, Mexico, Belgium 1954-56; candidate for Pres. 1962, 1963. *Address:* c/o Alianza Popular Revolucionaria Americana, Lima, Peru.

HAYAISHI, Osamu, M.D., PH.D.; Japanese university professor; b. 8 Jan. 1920, Stockton, Calif., U.S.A.; s. of Jitsuzo and Mitsu Hayaishi; m. Takiko Satani 1947; one d.; ed. Osaka High School, Osaka Univ.; Asst. Prof., Dept. of Microbiology, Washington Univ. School of Medicine, St. Louis, Mo., U.S.A., 1952-54; Chief, Toxicology, Nat. Inst. of Arthritis and Metabolic Diseases, Nat. Insts. of Health, Bethesda, Md., U.S.A. 1954-58; Prof., Dept. of Medical Chemistry, Prof., Dept. of Molecular Biology, Inst. for Chemical Research, Prof., Dept. of Physiological Chemistry and Nutrition, Kyoto Univ. 1958-; Prof. Dept. of Physiological Chem. and Nutrition, Univ. of Tokyo 1970-74; Prof. Inst. of Scientific and Industrial Research, Osaka Univ. 1975-76; mem. WHO Global Advisory Cttee. 1978-, Scientific Council Int. Inst. of Cellular and Molecular Pathology (Belgium) 1979-; Foreign Hon. mem. of American Acad. of Arts and Sciences 1969, Foreign Assoc. of the U.S. Nat. Acad. of Arts and Sciences 1969; mem. Japan Acad. of Sciences 1974, New York Acad. of Sciences 1976; Hon. mem. American Soc. of Biological Chemists 1974; Award of Japan Soc. of Vitaminology 1964, Award of Matsunaga Science Foundation 1964, Asahi Award for Science and Culture 1965, Award of Japan Acad. of Science 1967, Order of Culture 1972, Award of Fujiwara Science Foundation 1975, Médaille de Bronze de la Ville de Paris 1975, CIBA Foundation Gold Medal 1976, Louis and Bert Freedman Foundation Award for Research in Biochemistry 1976, Deutsche Akademie der Naturforshcer Leopoldina (G.D.R.) 1978, Jiménez Díaz Memorial Award (Spain) 1979. *Publications:* Oxygenases 1962, Molecular Mechanisms of Oxygen Activation 1973, Molecular Oxygen in Biology 1973, and nearly 300 scientific reviews and articles. *Leisure interest:* golf. *Address:* Department of Medical Chemistry, Kyoto University Faculty of Medicine, Sakyo-ku, Kyoto 606 (Office); 23 Kitachanoki-cho, Shimogamo, Sakyo-ku, Kyoto 606, Japan (Home). *Telephone:* 075-751-2111 (Office); 075-781-1089 (Home).

HAYAKAWA, Samuel Ichiye, PH.D.; American university professor and politician; b. 18 July 1906, Vancouver, B.C., Canada; s. of Ichiro Hayakawa and Toro Isono; m. Margedant Peters 1937; two s. one d.; ed. schools in Calgary, Vancouver and Winnipeg, and Univ. of Manitoba, McGill Univ., Montreal and Wisconsin Univ.; taught English at Univ. of Wisconsin 1936-39, Ill. Inst. of Tech.

1939-47; Lecturer Univ. of Chicago 1950-55; Prof. of English, San Francisco State Coll. 1955-68, acting Pres. 1968, Pres. 1968-73, Pres. Emer. 1973; certified psychologist, State of Calif. 1959; U.S. Senator from Calif. Jan. 1977-; mem. Senate Cttees. for Agric., Nutrition and Forestry, Budget and Human Resources; mem. U.S. Senate Republican Policy Cttee., Nat. Republican Senatorial Cttee.; Fellow, American Psychological Assen., American Assen. for the Advancement of Science, American Sociological Assen., Royal Soc. of Arts; Hon. D.F.A. (Calif. Coll. of Arts and Crafts); Hon. D.Litt. (Grinnell Coll., Iowa); Hon. L.H.D. (Pepperdine Univ., Malibu, Calif.); Hon. LL.D. (The Citadel, Charleston, S.C.); Republican. *Publications include:* Oliver Wendell Holmes (selected poetry and prose) 1939, Language in Action 1941, Language in Thought and Action 1949, Language, Meaning and Maturity 1954, Our Language and Our World 1959, The Use and Misuse of Language 1962, Symbol, Status and Personality 1963, Editor Funk and Wagnalls' Modern Guide to Synonyms 1968, and contributions to numerous other vols. *Leisure interests:* collecting African sculpture, Chinese ceramics and old jazz records, tap-dancing, fishing, scuba-diving. *Address:* 6217 Dirksen Senate Office Building, Washington, D.C. 20510 (Office); Mill Valley (Marin County), Calif. 94941, U.S.A. (Home).

HAYCRAFT, Howard; American publisher and author; b. 24 July 1905; ed. Univ. of Minnesota; Univ. of Minn. Press 1928; H. W. Wilson Co., New York 1929-, Vice-Pres. 1940-52, Pres. 1953-67, Chair. Board of Dirs. 1967-; mem. Pres. Cttee. Employment of Handicapped 1963-74; mem. Mystery Writers of America Club, Pres. 1963. *Publications:* as Author, Editor or Joint Editor: Authors Today and Yesterday 1933, Junior Book of Authors 1934, Boys' Sherlock Holmes 1936, Boys' Book of Great Detective Stories 1938, American Authors 1600-1900 1938, Boys' Second Book of Great Detective Stores 1940, Murder for Pleasure: The Life and Times of the Detective Story 1941, Crime Club Encore 1942, Twentieth Century Authors 1942, Art of the Mystery Story 1946, Fourteen Great Detective Stories 1949, British Authors before 1800 1952, Treasury of Great Mysteries 1957, Ten Great Mysteries 1959, Five Spy Novels 1962, Books for the Blind: A Postscript and an Appreciation 1965. *Address:* 950 University Avenue, Bronx, N.Y. 10452, U.S.A.

HAYDEN, William George, B.ECONS.; Australian politician; b. 23 Jan. 1933, Brisbane, Queensland; ed. Brisbane State High School, Univ. of Queensland; Police constable, Queensland 1953-61; mem. Parl. for Oxley 1961-; Parl. Spokesman on Health and Welfare 1969-72; Minister of Social Security 1972-75; Fed. Treas. June-Nov. 1975; Leader Parl. Labor Party (Opposition) Dec. 1977-. *Address:* Parliament House, Canberra, A.C.T. (Office); 16 East Street, Ipswich, Queensland 4305, Australia. (Home).

HAYDON, Walter Robert, C.M.G.; British diplomatist; b. 29 May 1920, London; s. of Walter Haydon and Evelyn Louise Thorn; m. Joan Elizabeth Tewson 1943; one s. two d. (one d. deceased); ed. Dover Grammar School; H.M. Forces 1939-45; served Berne 1946-47, Foreign Office 1947-48, Turin 1948-52; Vice-Consul 1950; Vice Consul, Sofia 1952-53; Second Sec. Bangkok 1953-56; First Sec. and Head of Chancery, Khartoum 1958-61; First Sec. U.K. Mission to UN, New York 1961-65; Counsellor, Washington 1965-67; Head of News Dept., Foreign and Commonwealth Office 1967-71; High Commr. in Malawi 1971-73; Chief Press Sec. to Prime Minister 1973-74; High Commr. in Malta 1974-76; Amb. to Ireland 1976-. *Leisure interests:* walking, swimming, English water-colours. *Address:* British Embassy, 33 Merrion Road, Dublin 4, Ireland.

HAYEK, Friedrich August (von), DR.JUR., DR.RER.POL. (Vienna), D.SC. (ECON.) (London), F.B.A.; British (b. Austrian) economist; b. 8 May 1899, Vienna: s. of August von Hayek and Felizitas von Juraschek; m. 1st Helene B. M. von Fritsch, 2nd Helene A. E. Warhanek (née Bitterlich); one s. one d.; ed. Vienna Univ.; Austrian Civil Service 1921-26; Dir. Austrian Inst. for Econ. Research 1927-31; Lecturer in Econs., Vienna Univ. 1929-31; Prof. of Econ. Science and Statistics, London Univ. 1931-50; Prof. of Social and Moral Science, Univ. of Chicago 1950-62; Prof. of Econs., Univ. of Freiburg 1962-70; shared Nobel Prize for Econ. Science 1974; naturalized British 1938; Hon. Fellow L.S.E. *Publications:* Prices and Production 1931, Monetary Theory and the Trade Cycle 1933, Collectivist Economic Planning 1935, Monetary Nationalism and International Stability 1937, Profits, Interest and Investment 1939, The Pure Theory of Capital 1941, The Road to Serfdom 1944, Individualism and Economic Order 1948, J. S. Mill and Harriet Taylor 1950, The Counter-Revolution of Science 1952, The Sensory Order 1952, Capitalism and the Historians 1954, The Political Ideal of the Rule of Law 1955, The Constitution of Liberty 1960, Studies in Philosophy, Politics and Economics 1967, Freiburger Studien 1969, Law, Legislation and Liberty: Rules and Order (Vol. I) 1973, The Mirage of Social Justice (Vol. II) 1976, The Political Order of a Free People (Vol. III) 1979, The Denationalization of Money 1976, New Studies in Philosophy, Politics, Economics and the History of Ideas 1978, Law, Legislation and Liberty 1979. *Address:* Urachstrasse 27, D-7800 Freiburg im Breisgau, Federal Republic of Germany. *Telephone:* 0761/77216.

HAYEK, His Beatitude Ignace Antoine II, D.PHIL.; Syrian ecclesiastic; b. 14 Sept. 1910; s. of Naum Hayek and Chafica Sciamsi; ed. Séminaire Patriarcal, Charfé, Lebanon, Pontifical Coll., of Propaganda Fide, Rome, and Oriental Pontifical Inst., Rome; ordained priest 1933, successively or concurrently Dir. of School, Curate and Vicar-Gen., Aleppo; Archbishop of Aleppo 1959-68; Syrian Patriarch of Antioch 1968-. *Address:* Patriarcat Syrien Catholique, B.P. 118879, rue de Damas, Beirut, Lebanon. *Telephone:* 381532.

HAYES, Alfred, B.A., B.LITT.; American banker; b. 4 July 1910, Ithaca, New York; s. of Alfred and Christine Grace Robertson Hayes; m. Vilma Chalmers 1937; one s. one d.; ed. Harvard and Yale Univs. and New Coll., Oxford; Investment Analyst, City Bank Farmers Trust Co., New York 1933-40; with Bond Dept. Nat. City Bank of New York 1940-42; Asst. Sec. Investment Div., New York Trust Co. 1942-47, Asst. Vice-Pres. Foreign Div. 1947-49, Vice-Pres. (in charge of the Foreign Div.) 1949-56; Pres. Fed. Reserve Bank of New York 1956-75, Vice-Chair. Fed. Open Market Cttee. 1956-75; Chair. Morgan Stanley Int. Inc. 1975-; Dir. Nat. Distillers and Chemical Corpn. 1975-, N. American Reinsurance Corpn. 1976-; N. American Reassurance Co. 1976-; mem. Int. Advisory Board, Chemical Bank 1976-; Pres. Howard Florey Biomedical Foundation 1973-; mem. Foreign Exchange Cttee. of N.Y. Money Market 1953-56; Dir. Bankers' Assen. for Foreign Trade 1953-56; Dir. Netherlands Chamber of Commerce in the U.S. 1954-56; Advisory Dir. Morgan Stanley and Co. Int. 1975-; Pres. Trustees of Lingnan Univ., China 1947-54; mem. Council on Foreign Relations, N.Y., President's Council for New York University Schools of Business, Yale Univ. Council 1961-68; Hon. Fellow, New Coll. Oxford 1975; Order of Merit, Italian Repub., C. Walter Nichols Award 1967, Distinguished Service Award, U.S. Treasury 1969. *Address:* Morgan Stanley and Co. Inc., 1251 Avenue of the Americas, New York, N.Y. 10020 (Office); 401 Brushy Ridge Road, New Canaan, Conn. 06840, U.S.A. (Home). *Telephone:* (212)977-4338 (Office).

HAYES, Helen; American actress; b. 10 Oct. 1900, Washington, D.C.; d. of Francis Van Arnum and Catherine Estelle (Hayes) Brown; m. Charles MacArthur 1928 (died 1956); one s.; ed. Sacred Heart Acad., Washington; first stage appearance at the age of six; fmr. mem. Columbia Players; mem. A.P.A. Phoenix Repertory Co. 1966-; Hon. Pres. American Theatre Wing; Pres. American Nat. Theatre; Hon. L.H.D. (Hamilton, Smith, Elmira); Hon. Litt.D. (Columbia, Denver); Acad. Award (Oscar) 1932, TV Emmy Award 1954, Antoinette Perry Award (Tony) for best actress 1958, Acad. Award for best supporting actress 1971. *Stage appearances include:* Old Dutch 1909, Prodigal Husband 1914, Dear Brutus 1918, Clarence 1919, To the Ladies 1922, Caesar and Cleopatra 1925, What Every Woman Knows 1926, Coquette 1927, Mary of Scotland 1933, Victoria Regina 1937-38, Ladies and Gentlemen 1939-40, Twelfth Night 1940-41, Candle in the Wind 1941-42, Harriet 1943, Happy Birthday 1946, The Glass Menagerie 1948, Farewell to Arms, Mrs. McThing 1952, Mainstreet to Broadway 1953, The Skin of our Teeth 1955, Time Remembered 1958, The Front Page 1969, Harvey 1970; *Films include:* The Sin of Madelon Claudet 1932 (Oscar), A Farewell to Arms 1932, My Son John 1951, Anastasia 1956, Airport (Acad. Award) 1970, Herbie Rides Again 1974, One of Our Dinosaurs is Missing 1975, Candleshoe 1978. *Publications:* A Gift of Joy 1965, On Reflection (autobiog. with Sandford Dody) 1969, Twice Over Lightly (with Anita Loos, q.v.) 1971. *Address:* c/o Lucy Kroll, 390 West End Avenue, New York, N.Y. 10028, U.S.A.

HAYES, John Philip, M.A.; British economist; b. March 1924, Fleet, Hants.; ed. Corpus Christi Coll., Oxford; with political and Econ. Planning, London 1950-53; with OEEC 1953-58; Econ. Dept., IBRD 1958-64; Head, Econ. Devt. Div. OECD 1964-67; Dir. World Economy Div., Econ. Planning Staff, Ministry of Overseas Devt. 1967-69, Deputy Dir.-Gen. of Econ. Planning 1969-71; Dir. Econ. Program and Econ. Analysis and Projections Depts., IBRD 1971-73; Dir. Trade and Finance Div., Commonwealth Secr. 1973-75; Chief Econ. Adviser FCO Sept. 1975-. *Address:* Foreign and Commonwealth Office, King Charles Street, London, S.W.1 (Office); 1 Elgar Avenue, London, W5 3JU, England (Home). *Telephone:* 01-567 2426.

HAYES, John S., B.A.; American communications executive and diplomatist; b. 21 Aug. 1910, Philadelphia, Pa.; m. Donna Gough 1957; two s. two d.; ed. Univ. of Pennsylvania; Commdg. Officer,

American Forces Network, U.S. Army 1942-45; Exec. Vice-Pres. and Dir. The Washington Post Co. 1947-66; Amb. to Switzerland 1966-69; Pres. United Way of America 1962-64; Chair. Cttee. on Int. Broadcasting, Nat. Assen. of Broadcasters 1964; mem. Carnegie Comm. on Educational Television 1966; mem. U.S. Del. to Int. Conf. on INTELSAT 1969; mem. Board of Trustees, Springfield Coll., Nat. Urban League 1970; Chair. Meridan House Int., Washington, D.C.; Chair. United Arts Org., Washington; Chair. Radio Free Europe/Radio Liberty Washington, D.C. 1976; Trustee, Fed. City Council of Washington, D.C., Int. Rescue Comm., New York; mem. Board of Dirs. Nat. Symphony Orchestra Assen., Washington Performing Arts Board, Washington Inst. of Foreign Affairs; Fellow, American Acad. of Political and Social Sciences; Trustee, Univ. of North Florida 1977-; Hon. O.B.E.; Croix de guerre, U.S. Bronze Star. *Publication:* Both Sides of the Microphone 1938. *Address:* 945 Ponte Vedra Boulevard, Ponte Vedra, Florida, U.S.A. *Telephone:* (904) 285-6483.

HAYMAN, Sir Peter Telford, K.C.M.G., C.V.O., M.B.E.; British diplomatist; b. 14 June 1914, Deal, Kent; s. of Charles H. T. and Alys H. Hayman; m. Rosemary E. Blomefield 1942; one s. one d.; ed. Stowe School and Worcester Coll., Oxford; Asst. Principal, Home Office 1937-39, Ministry of Home Security 1939-41; Asst. Private Sec. to Home Sec. (Herbert Morrison) 1941-42; army service 1942-45; Principal, Home Office 1945-49; Asst. Sec. Ministry of Defence 1949-52; Counsellor, U.K. Del. at NATO 1952-54; Counsellor, Belgrade 1955-59, Malta 1958-59, Baghdad 1959-61; Dir.-Gen. British Information Services, New York 1961-64; Minister, Berlin 1964-66; Asst. Under-Sec. of State, Foreign Office 1966-69, Deputy Under-Sec. of State 1969-70; High Commr. to Canada 1970-74; Dir. Delta Metal Overseas 1974-, Edbco (Holdings) Ltd. 1977-; Gov. Int. Student House; Adviser Seatrade Publs. *Leisure interests:* travel, fishing, shooting. *Address:* Uxmore House, Checkendon, Oxon., England (Home). *Telephone:* Checkendon 680-658.

HAYMAN, Walter Kurt, M.A., SC.D., F.R.S.; British mathematician; b. 6 Jan. 1926, Cologne, Germany; s. of Franz Samuel Haymann and Ruth Therese Hensel; m. Margaret Riley Crann 1947; three d.; ed. Gordonstoun School, Cambridge Univ.; Lecturer, Kings Coll., Newcastle, and Fellow, St. John's Coll., Cambridge 1947; Lecturer 1947-53, and Reader, Univ. of Exeter 1953-56; Visiting Lecturer, Brown Univ., U.S. 1949-50, Stanford Univ. Summer 1950, 1955, American Mathematical Soc. 1961; Prof. of Pure Mathematics and Dean of the Royal Coll. of Science, Imperial Coll. of Science and Technology, London; mem. London Mathematical Soc., Cambridge Philosophical Soc.; Hon. Sec. Soc. for the Protection of Science and Learning; first organizer (1964-68) British Mathematical Olympiad; 1st Smiths Prize 1948, shared Adams Prize, Cambridge Univ. 1949, Junior Berwick Prize 1955, Senior Berwick Prize of the London Mathematical Soc. 1964. *Publications:* Multivalent Functions 1958, Meromorphic Functions 1964, Research Problems in Function Theory 1967, Subharmonic Functions 1976, and over 100 articles in various scientific journals. *Leisure interests:* music, travel, television. *Address:* Imperial College of Science and Technology, Queen's Gate, South Kensington, London, S.W.7 (Office); Morden House, 9 Westmead, London, S.W.15, England (Home). *Telephone:* 01-589 5111 (Office).

HAYMERLE, Heinrich; Austrian diplomatist; b. 1910; ed. Univ. of Vienna; Diplomatic Service, OEEC, Paris 1948-51; Chief of Protocol, Dept. of Foreign Affairs 1951-53; Austrian Observer at UN 1953-55; Austrian Rep. in Madrid 1955-56; Head, Political Div., Dept. of Foreign Affairs 1956-60; Amb. to U.S.S.R. 1960-64; Head, Political Div., Ministry for Foreign Affairs 1964-68; Deputy Sec.-Gen. 1967-68; Gov. of Austria to the IAEA 1965-67; Vice-Chair. Board of Govs. of IAEA 1966-67; Perm. Rep. to UN 1968-70; Chair. of UN-Outer Space Cttee.; Amb. to U.S.S.R., also accred. to Mongolia 1971-74; Sec.-Gen. for Foreign Affairs 1974-. *Address:* c/o Ministry of Foreign Affairs, Vienna, Ballhausplatz, Austria.

HAYNES, Sir George Ernest, Kt., C.B.E., B.SC.; British administrator; b. 24 Jan. 1902, Middlewich, Cheshire; s. of Albert Ernest and Sarah Anne Haynes; m. Kathleen Greenhalgh 1930; two d.; ed. Sandbach School and Liverpool Univ.; Warden, Univ. Settlement, Liverpool 1928-33; Chief Advisory Officer Nat. Council of Social Service 1933-37, Dir. 1940-67; Chair. Temporary Int. Council of Educational Reconstruction of UNESCO 1947-50, Preparatory Cttee. of World Assembly of Youth 1947-49, Social Services Cttee. of National Assen. for Mental Health 1955-58, Standing Conf. on British Orgs. for aid to Refugees 1953-60, Rural Industries Loan Fund Ltd. 1949-68, Advisory Council of Rural Industries Bureau 1963-68; Pres. Int. Conf. of Social Work 1948-56, Hon. Pres. 1956-68; Pres. Nat. Birthday Trust; Chair. Invalid Children's Aid Assen. 1965-69, Nat. Bureau for Co-operation in Child Care 1963-68; Exec. Cttee. British Conf. on Social Welfare 1948-67, British Standing Conf. on Econ. and Social Activities of UN 1962-69; mem. Exec. Cttee. King George VI Foundation; U.K. Del. to Social Comm. of UN 1962-67; Pres. British Assen. of Residential Settlements 1960-70; Nat Assen. of Citizens Advice Bureaux, British Assen. for Counselling, Vice-Pres. Assen. for Spina Bifida and Hydrocephalus; Crown Trustee City Parochial Foundation 1966-75; mem. Lord Chancellor's Advisory Cttee. on Legal Aid 1950-75; Chair. Conf. on Legal Aid 1972-75; mem. Council of British Red Cross Soc.; Chair. Social Science Panel Nat. Fund for Research into Crippling Diseases 1969-72; Chair. Standing Conf. for Advancement of Counselling 1970-71, Pres. 1972; Chair. Clinic of Psychotherapy 1971-73; Deputy Chair. Joint Council of Voluntary Work for Disabled 1968-72; René Sand Award 1958. *Address:* 103 Richmond Hill Court, Richmond, Surrey, England. *Telephone:* 01-940 6304.

HAYNES, Harold J.; American business executive; b. Fort Worth, Tex.; ed. Texas A & M Univ.; served in U.S. Navy, Second World War; joined Standard Oil Co. of Calif. as construction engineer 1947, subsequently serving in producing activities in Venezuela and East Coast marketing operations; Asst. Vice-Pres. 1962, producing Vice-Pres. Western Operations 1963-65, Pres. 1965-66; Vice-Pres. Standard Oil of Calif. 1966-69, Dir. 1966-69, Pres. 1969-74, Chair. of the Board and Chief Exec. Officer 1974-; Dir. American Petroleum Inst., The Boeing Co., First Nat. City Corpn. and First Nat. City Bank, Stanford Research Inst.; Trustee Cttee. for Econ. Devt., and Calif. Inst. of Technology. *Address:* Standard Oil Company of California, 225 Bush Street, San Francisco, Calif. 94104, U.S.A.

HAYS, Brooks, A.B., J.D.; American lawyer and government official; b. 9 Aug. 1898, Russellville, Ark.; s. of Adelbert Steele Hays and Sallie Butler Hays; m. Marion Prather 1922; one s. one d.; ed. Univ. of Arkansas and George Washington Univ.; admitted Arkansas Bar 1922; held various admin. posts, Arkansas 1925-35; served Farm Security Admin.; mem. 78th-85th Congress; Board of Dirs. Tennessee Valley Authority 1959-61; Asst. Sec. for Congressional Relations, Dept. of State 1961; Special Assistant to Pres. Kennedy 1961-63; U.S. Del. to UN Gen. Assembly 1955; Assoc. Dir. Community Relations Service 1965; A. T. Vanderbilt Prof. of Public Affairs, Rutgers Univ. 1963-65; Visiting Prof. of Public Affairs, Univ. of Mass. 1966-; f. Ecumenical Inst. Wake Forest Univ. (N. Carolina) 1968; Pres. Southern Baptist Convention 1957-59; co-founder, Former Members of Congress Inc.; various hon. degrees. *Publications:* This World, a Christian's Workshop, A Southern Moderate Speaks, A Hotbed of Tranquility. *Address:* 4701 Willard Avenue, Apartment 935, Chevy Chase, Md. 20015, U.S.A. *Telephone:* (301) 951-0590.

HAYTER, Stanley William, C.B.E., B.SC.; British painter, engraver and writer; b. 27 Dec. 1901; ed. Whitgift Middle School and King's Coll., London; Chemist, Anglo-Iranian Oil Co., Iran 1922-25; founded Atelier 1917, Paris 1927; paintings and engravings exhibited France, England, U.S.A., Belgium, Switzerland, S. America, Japan; paintings in Tate Gallery, London, Whitney Gallery, N.Y., Musée d'Art Moderne, Paris, Nat. Gallery of Canada, Montreal, St. Louis City Museum, Museum of Modern Art, Santiago, Chile and others; Int. First Prize, Tokyo 1960; Légion d'honneur, Chevalier des Arts et Lettres 1966; Grand Prix des Arts de la Ville de Paris 1972. *Publications:* New Ways of Gravure 1949, About Prints 1962, Nature and Art of Motion 1964. *Address:* 12 rue Cassini, 75014 Paris, France. *Telephone:* 326-26-60.

HAYTER, Sir William Goodenough, K.C.M.G.; British diplomatist and college principal; b. 1 Aug. 1906, Oxford; s. of late Sir William Goodenough Hayter, K.B.E. and Lady Hayter (née Slessor); m. Iris Marie Hoare 1938; one d.; ed. Winchester and New Coll., Oxford; entered Diplomatic Service 1930; served in Foreign Office 1930-31, Vienna 1931, Moscow 1934, Foreign Office 1937, China 1938, Washington 1941, Foreign Office 1944; Asst. Under-Sec. of State 1948; Minister in Paris 1949-53; Amb. to U.S.S.R. 1953-57; Deputy Under-Sec. of State 1957-58; Warden of New Coll., Oxford 1958-76; mem. Council G.B.-U.S.S.R. Assen. 1959-76; Gold Medal for Services to Austria 1967. *Publications:* The Diplomacy of the Great Powers 1960, The Kremlin and the Embassy 1966, Russia and the World 1970, William of Wykeham, Patron of the Arts 1970, A Double Life (autobiog.) 1974, Spooner, a Biography 1977. *Address:* Bassetts House, Stanton St. John, Oxford, England. *Telephone:* Stanton St. John 598.

HAYWARD, Ronald, C.B.E.; British political administrator; b. 27 June 1917, Bloxham, Oxon.; s. of late F. Hayward; m. Phyllis O. Allen 1943; three d.; ed. Bloxham Church of England School and various R.A.F. schools and colleges; Labour Party Agent 1947-50, Asst. Regional Organizer 1950-58, Regional Organizer 1958-69, Nat. Agent 1969-72, Gen. Sec. Oct. 1972-; Vice-Pres. Nat. Union of

Labour and Socialist Clubs. *Leisure interests:* oil painting, music. *Address:* c/o Transport House, Smith Square, London, S.W.1, England. *Telephone:* 01-834 9434.

HAYWARD, Admiral Thomas B., M.S.; American naval officer; b. 3 May 1924, Glendale, Calif.; s. of E. Payson Hayward; m. Peggy Keating; two d.; ed. Glendale Junior Coll., Occidental Coll. at Los Angeles, George Washington Univ. Commanding Officer, Fighter Sqn. 103 1964-65; Commdr. Carrier Air Wing 10 1965-66; C.O., USS Grafias (AF-29) 1967-68, Aircraft Carrier USS America (CV-66) 1969-70; Commdr., Hawaiian Sea Frontier and Commdt., 14th Naval District 1970-71; Dir. Office of Program Appraisal, Navy Dept. 1971-73, Dir. of Navy Program Planning 1973-75; Commdr. 7th Fleet 1975-76; C.-in-C. Pacific Fleet 1976-78; Chief of Naval Operations July 1978-; Distinguished Service Medal, Legion of Merit, Distinguished Flying Cross, Air Medal with ten gold stars and Bronze Numeral 3. *Leisure interests:* golf, tennis. *Address:* Navy Department, Washington, D.C. 20350, U.S.A. *Telephone:* (202) 695-5664.

HAZARD, Ellison L.; American business executive; b. 6 Aug. 1911, Redlands, Calif.; m. Helen Hammill 1935; two s.; ed. Univ. of California and Harvard Univ. Business School; The Continental Group (fmrly. Continental Can Co.) 1934-, in charge of aircraft and bomb parts production during Second World War, later Plant Man. and Div. Man. of Manufacturing; Vice-Pres. Central Metal Div., Continental Can Co. 1958-62, Exec. Vice-Pres. (Plastics and Closures Operations Group) 1962-63, Dir. 1962-, Senior Exec. Vice-Pres. 1963, Pres. 1963-71, Chair. Board, Chief Exec. Officer 1968-71; Dir. The Continental Group, The Southern Pacific Co., Bunker Hill Income Securities; Dir. Goodyear Tire and Rubber Co., Charter New York, Irving Trust Co.; Vice-Chair. Fed. Reserve Bank of N.Y.; mem. Nat. Industrial Conf. Board; Trustee, Cttee. for Econ. Devt. *Address:* 24112 Paseo Del Campo, Laguna Niguel, Calif. 92677, U.S.A.

HÁZI, Vencel, D.ECON.; Hungarian diplomatist and economist; b. 3 Sept. 1925, Budapest; m. Judit Házi 1952; one d.; ed. Technical Univ. and Univ. of Economics, Budapest; entered diplomatic service 1950; Press Attaché, London 1951-53; Counsellor, Stockholm 1957-58; Amb. to Iraq (also accred. to Afghanistan) 1958-61; Amb. to Greece (also accred. to Cyprus) 1962-65; Deputy Minister of Foreign Affairs 1968-70, 1976-; Head, Hungarian Del. to UN Gen. Assembly 1969; Amb. to U.K. 1970-76. *Leisure interests:* music, opera, swimming. *Address:* c/o Ministry of Foreign Affairs, Bem József rakpart 47, 1394 Budapest II, Hungary.

HAZLITT, Henry; American journalist; b. 28 Nov. 1894, Philadelphia, Pa.; s. of Stuart Hazlitt and Bertha Zauner; m. Frances Kanes 1936; ed. Coll. of City of New York; mem. staff Wall Street Journal 1913-16 and New York Evening Post 1916-18; Financial Editor New York Evening Mail 1921-23; editorial writer New York Herald 1923-24; Literary Editor The Sun 1925-29; Literary Editor The Nation 1930-33; Editor American Mercury 1934; editorial writer New York Times 1934-46; business columnist Newsweek 1946-66; nationally syndicated newspaper columnist 1966-69; Editor The Freeman 1950-53; Hon. Litt.D. (Grove City Coll.) 1958, Hon. LL.D. (Bethany Coll.) 1961, Hon. S.Sc.D. (Univ. Francisco Marroquin, Guatemala) 1976. *Publications:* Thinking as a Science 1916, 1969, The Anatomy of Criticism 1933, A New Constitution Now 1942, 1974, Economics in One Lesson 1946, Will Dollars Save the World? 1947, The Great Idea 1951, 1966 (British title: Time Will Run Back 1952), The Free Man's Library 1956, The Failure of the "New Economics": An Analysis of the Keynesian Fallacies 1959, 1973, What You Should Know about Inflation 1960, 1965, The Foundations of Morality 1964, 1972, Man Versus the Welfare State 1970, The Conquest of Poverty 1973, The Inflation Crisis 1978; ed. A Practical Program for America 1932, The Critics of Keynesian Economics 1960. *Address:* 65 Drum Hill Road, Wilton, Conn. 06897, U.S.A. *Telephone:* (203) 762-7891.

HEAD, 1st Viscount, cr. 1960, of Throope in the County of Wiltshire; **Antony Henry Head,** P.C., G.C.M.G., C.B.E., M.C.; British politician; b. 1906; ed. Eton and Royal Mil. Coll., Sandhurst; Adjutant, Life Guards 1934-37; Staff Coll. 1939; Brigade Major 20th Guards' Brigade 1940; Asst.-Sec. Cttee. Imperial Defence 1940-41; Guards Armoured Div. 1941-42 (G.S.O.2); Army Rep. with Dir. of Plans for Amphibious Operations 1943-45; Conservative M.P. for Carshalton Div. Surrey 1945-60; Sec. of State for War 1951-56; Minister of Defence 1956-57; High Commr. in Fed. of Nigeria 1960-63; High Commr. in Malaysia 1963-66; Trustee the Thomson Foundation 1967-74; Col. Commdt. Special Air Service Regt. 1968-76; Pres. Royal Nat. Inst. for Blind 1975-; Chair. Wessex Region of Nat. Trust 1969-76. *Address:* Throope Manor, Bishopstone, nr. Salisbury, Wilts., England.

HEADINGTON, Christopher John Magenis, B.MUS., A.R.A.M., A.R.C.M.; British musician; b. 28 April 1930, London; s. of Mr. and Mrs. Kenneth Headington; ed. Taunton School, Royal Acad. of Music; Asst. Music Master Trinity Coll., Glenalmond, Perthshire 1951-54; Deputy Dir. Music, Lancing Coll., Sussex 1954-64; Sr. Asst. Music Presentation, BBC, London 1964-65; Tutor in Music, Dept. for External Studies, Oxford Univ. 1965-72, Part-time Assoc. Tutor 1972; freelance composer, pianist, broadcaster, author, etc. 1950-; Leonard Borwick Prize, Royal Acad. of Music. *Works:* String Quartets Nos. 1 and 2 1954, 1974, Two Piano Sonatas 1956, 1974, Violin Concerto 1959, Song Cycles including Reflections of Summer and A Clouded Starre 1965 and 1975, A Bradfield Mass 1977, Piano Quartet 1978, The Healing Fountain (In Memoriam Benjamin Britten) 1979. *Publications:* The Bodley Head History of Western Music 1974, The Orchestra and its Instruments 1965, chapters on various composers in A Dictionary of Composers 1977. *Leisure interests:* aviation, skiing, travel, cooking, languages, gardening. *Address:* Old Quarry House, 1 Beckley Court, Beckley, Oxford, QX3 9UB, England. *Telephone:* Stanton St. John (086735) 553.

HEALEY, Rt. Hon. Denis Winston, P.C., C.H., M.B.E., M.P.; British politician; b. 30 Aug. 1917, Mottingham; s. of William Healey; m. Edna May (née Edmunds) Healey 1945; one s. two d.; ed. Bradford Grammar School and Balliol Coll., Oxford; Maj., Royal Engineers 1945; Sec. Labour Party Int. Dept. 1945-52; M.P. 1952-; Sec. of State for Defence 1964-70; Chancellor of the Exchequer 1974-79; Opposition Spokesman for Treasury and Econ. Affairs June 1979-; Chair. Interim Ministerial Cttee. of IMF 1977-79; Labour. *Publications:* The Curtain Falls 1951, New Fabian Essays 1952, Neutralism 1955, Fabian International Essays 1956, A Neutral Belt in Europe 1958, NATO and American Security 1959, The Race Against the H Bomb 1960, Labour Britain and the World 1963. *Address:* House of Commons, London, S.W.1, England.

HEARNES, Warren Eastman, B.S. A.B., J.D.; American lawyer and politician; b. 24 July 1923, Moline, Ill.; m. Betty Hearnes; three d.; ed. U.S. Mil. Acad., West Point, and Univ. of Missouri; U.S. Army until 1949; mem. Missouri House of Representatives 1951-61, Majority Floor Leader 1957-61; Missouri Sec. of State 1961-65; Gov. of Missouri 1965-73; Chair. Midwest Governors' Conf. 1967-68; mem. Advisory Comm. of Intergovernmental Relations 1969-72, President's Civil Defence Advisory Council 1970-72; Pres. Council of State Govts. 1971; mem. Missouri Bar, American Bar Assn.; mem. firm Hearnes, Padberg, Raack, McSweeney & Slater 1973-; Democrat. *Address:* 118 North Main Street, Charleston, Mo. 63834 (Office); Route 3, Charleston, Mo. 63834, U.S.A. (Home).

HEARST, David Whitmire; American newspaper executive; b. 2 Dec. 1915, New York; s. of William R. Hearst and Millicent V. Willson; twin brother of Randolph A. Hearst (*q.v.*) and brother of William R. Hearst (*q.v.*); m. Hope Chandler 1938; one s. one d.; ed. Princeton Univ.; Classified and Display Advt. Dept. Los Angeles Evening Herald-Express 1938-44, Business Man. 1944-45, Gen.-Man. 1945-47, Exec. Publr. 1947-50, Publr. 1950-60; Vice-Pres. and Dir. Hearst Corpn. 1960-. *Address:* Hearst Corporation, 9601 Wilshire Boulevard, Beverly Hills, Calif. 90210, U.S.A.

HEARST, George Randolph, Jr.; American newspaper executive; b. 13 July 1927, San Francisco; s. of George Randolph Hearst and Blanche Wilbur; m. 1st Mary Thompson 1951 (died 1969); two s. two d.; 2nd Patricia Ann Bell 1969. Staff Los Angeles Examiner 1948-50, San Francisco Examiner 1954-56, Los Angeles Evening Herald-Express 1956- (Business Man. 1957-, Publr. 1960-); Publr. Los. Angeles Herald-Examiner 1962-; Dir. The Hearst Corpn.; Trustee The Hearst Foundation. *Address:* 1111 South Broadway, Los Angeles, Calif. 90015 (Office); 318 North Rockingham Avenue, Los Angeles, Calif. 90049, U.S.A. (Home).

HEARST, Randolph Apperson; American newspaper executive; b. 2 Dec. 1915, New York; s. of William R. Hearst and Millicent V. Willson; twin brother of David W. Hearst (*q.v.*) and brother of William R. Hearst, Jr. (*q.v.*); m. Catherine Campbell 1938; five d.; ed. Harvard Univ.; Asst. to Editor Atlanta Georgian 1934-38; Asst. to Publr., San Francisco Call-Bulletin 1938-41, Exec. Editor 1946-, Publr. 1950-53; Editor and Pres. San Francisco Examiner; Pres., Dir. and Chief Exec. Hearst Consolidated Publications Inc.; Pres. Hearst Publishing Co. Inc. 1953-64; Chair. Dir. The Hearst Corpn. 1965-; Chair. Exec. Cttee. 1967-72, Chair. Board 1973-; Trustee, William Randolph Hearst Foundation; Pres. The Hearst Foundation. *Address:* 110 Fifth Street, San Francisco, Calif. 94103, U.S.A.

HEARST, William Randolph, Jr.; American newspaper executive; b. 27 Jan. 1908, New York; s. of William R. Hearst and Millicent V. Willson; brother of David W. and Randolph A. Hearst (*q.v.*); m. Austine McDonnell 1948; two s.; ed. Univ. of California;

Reporter, New York 1928; Publr., New York Journal American 1937-56, American Weekly 1945-56; War Corresp. 1943-45; Editor-in-Chief, Hearst Newspapers; Vice-Pres. and Dir. The Hearst Foundation, Inc.; Chair. Exec. Cttee. and Dir. The Hearst Corpn.; Vice-Pres. and Trustee William Randolph Hearst Foundation; Dir. Twentieth Century-Fox Film Corpn., U.P.I., San Luis Mining Co.; Hon. LL.D. (Alaska); Pulitzer Prize 1956, Overseas Press Club Award 1958. *Address:* 959 8th Avenue, New York, N.Y. 10019 (Office); 810 Fifth Avenue, New York, N.Y. 10021, U.S.A. (Home).

HEATH, Sir Barrie, Kt., D.F.C., M.A.; British business executive; b. 11 Sept. 1916, Birmingham; s. of George and Florence Amina (née Jones) Heath; m. Joy Anderson 1939; two s.; ed. Wrekin, Pembroke Coll., Cambridge; trained with Rootes Securities Ltd. 1938-39; fighter pilot, R.A.F. 1939-45, rank of wing commdr.; Dir., Hobourn Aero Components of Rochester 1946-50; Man. Dir. Powell Duffryn Carbon Products Ltd. 1950-60; Man. Dir., later Chair. Triplex Safety Glass Co. Ltd. 1960-68, Chair. 1965-74; Non-exec. Dir. Guest Keen & Nettlefolds Ltd. 1972-74, Deputy Chair., Group Chair. designate April-Dec. 1974, Group Chair. Jan. 1975-; Chair. GKN (U.K.) Ltd. 1974-, GKN (Overseas) Ltd. 1974-; Dir. BHP-GKN Holdings Ltd. (Australia) 1975; mem. supervisory Board, Fichtel and Sachs AG 1976-; Non-exec. Dir. Smiths Industries Ltd. 1970-, Pilkington Bros. Ltd. 1967; Dir. Barclays Bank U.K. (Management) Ltd. 1975-, Barclays Bank Ltd. 1976-; Vice-Pres. Soc. of Motor Mfrs. & Traders 1973-, (Pres. 1978-), Chair. Gen. Purposes Cttee. 1973-; Vice-Pres. Engineering Employers' Fed. 1975-; Vice-Pres. Inst. of the Motor Industry 1975-; Chair. Gen. Purposes and Tech. Cttee., Motability 1978-; mem. Industrial Democracy Cttee. 1975-77, Royal Inst. Appeal Appeal Cttee. 1976-; founding mem. Eng. Industries Council 1975-; Fellow, Inst. of the Motor Industry 1976-; Trustee, R.A.F. Museum 1976-; Freeman of City of London; Liveryman, Coachmakers and Coach Harness Makers Co. *Leisure interests:* yachting, field sports. *Address:* GKN House, 22 Kingsway, London, WC2B 6LG, England. *Telephone:* 01-242 1616.

HEATH, Rt. Hon. Edward Richard George, P.C., M.B.E., M.P.; British politician; b. 9 July 1916; ed. Chatham House School, Ramsgate, and Balliol Coll., Oxford; served in Royal Artillery in Second World War, rising to rank of Lieut.-Col.; Civil Service 1946-47; M.P. for Bexley 1950-74, for Bexley, Sidcup 1974-; Asst. Conservative Whip, Lord Commr. of the Treasury 1951, Joint Deputy Govt. Chief Whip 1952, Deputy Govt. Chief Whip 1953-55, Parl. Sec. to the Treasury and Govt. Chief Whip 1955-59; Minister of Labour 1959-60; Lord Privy Seal with Foreign Office Responsibilities 1960-63; Sec. of State for Industry, Trade and Regional Development, Pres. Board of Trade 1963-64; Leader British delegation, Brussels Conf. for Countries seeking entry to the Common Market Oct. 1961-63; Leader of Conservative Party 1965-75; Leader of the Opposition 1965-70; Prime Minister 1970-74; Leader of the Opposition 1974-75; Pres. Conservative Commonwealth and Overseas Council 1975-; mem. Independent Comm. on Int. Devt. Issues; Hon. mem. London Symphony Orchestra 1974; Visiting Chubb Fellow (Yale) 1975; Hon. D.C.L. (Oxford), Hon. D.Tech. (Bradford), Dr. h.c. (Sorbonne), Hon. LL.D. (Westminster Coll., Salt Lake City); Charlemagne Prize 1963, Freiherr von Stein Foundation Award 1971, Estes Kefauver Foundation Award, Stresemann Medal 1971, European Peace Cross 1979; Conservative. *Publications:* One Nation: a Tory approach to social problems (co-author) 1950, Old World, New Horizons 1970, Sailing 1975, Music, A Joy for Life 1976, Travels, People and Places in my Life 1977, Carols, the Joy of Christmas 1977. *Leisure interests:* music, yachting (Captain, British Admiral's Cup team 1971). *Address:* House of Commons, London, S.W.1, England.

HEATH, Howard Davis; American insurance executive; b. 29 March 1904, Eagle, Alaska; s. of Archie and Agnes (Windblad) Heath; m. Myra Webber 1930; one d.; ed. Univ. of Washington; Northwestern Mutual Insurance Co. 1923-, Asst. Sec. 1938, Asst. Vice-Pres. 1944, Man. Eastern Claim Div. (Chicago) 1945, Manager Midwestern Dept. 1951, Eastern-Southern Div. 1959, Vice-Pres. and Dir. 1960, Pres. 1961-70; Dir. Northwestern Security Insurance Co., Seattle, Wash. 1960-, Pres. 1961-70; Cream City Mutual Insurance Co., Milwaukee, Wisconsin 1960-65, Pres. 1961-65; Dir., mem. of Exec. Cttee., Olympic Nat. Life Insurance Co., Seattle 1966-70; Board of Dirs. American Mutual Insurance Alliance, Chicago; mem. Governing Board Improved Risk Mutuals, New York; Trustee and Past Pres. Industrial Conf. Board (Wash. State); Gov. Board and Vice-Pres. Mutual Loss Research Bureau, Chicago 1963-66. *Address:* 1072 La Reina Drive, Lake San Marcos, Calif. 92069, U.S.A.

HEBB, Donald Olding, F.R.S., M.A., PH.D., D.SC., D.H.L.; Canadian psychologist; b. 22 July 1904, Chester, Nova Scotia; s. of Arthur Morrison Hebb and Mary Clara Olding; m. 1st Marion Isabel Clark 1932 (died 1933), 2nd Elizabeth Nichols Donovan 1937 (died 1962), 3rd Margaret Doreen Williamson 1966; two d.; ed. Dalhousie, McGill and Harvard Univs.; Teacher 1925-34; Research, Montreal Neurological Inst. 1937-39; Lecturer, Queens Univ. 1939-42; Research, Yerkes Laboratories of Primate Psychology 1942-47; Prof. Psychology, McGill Univ. 1947-72, Chair. Dept. 1948-58, Chancellor 1970-74, Prof. Emer. 1975-; Hon. Research Assoc., Dalhousie Univ. 1977-78; Hon. LL.D. (Dalhousie) 1965, Hon. LL.D. (Queen's Univ.) 1967. *Publications:* Organisation of Behaviour 1949, Textbook of Psychology 1958. *Leisure interests:* sailing, reading, the countryside. *Address:* R.R.1, Chester Basin, Nova Scotia B0J 1K0, Canada (Home).

HEBERT, Paul Macarius, A.B., LL.B., J.S.D.; American university professor and lawyer; b. 1 Nov. 1907, Baton Rouge; s. of Paul Armand and Annie (Byrne) Hebert; m. Estelle Le Jeune 1926; one s. two d.; ed. Louisiana State Univ., Yale Univ. School of Law; admitted to Louisiana Bar 1929; Prof. of Law, Loyola Univ., New Orleans 1930-31, Prof. and Dean of Law School 1932-36; Asst. Prof. of Law, La. State Univ. 1931-32, Prof. and Dean of Admin. 1936-37, Prof. and Dean of Law School 1937-39, Acting Pres. 1939-41, Dean of Law 1941-49, Prof. and Dean of Univ. 1949-51, Dean of Law 1952-57, 1959-; Attorney, La. Legislative Bureau 1932, 1934, 1936, 1938; Sec. Council of La. State Law Inst. 1938-; mem. law firm of Breazeale, Sachse, Wilson and Hebert 1951-52, 1957-59; served in U.S. Army 1942-45; Civilian Judge U.S. Mil. Tribunals, Nuremberg, Germany 1947-48; mem. panel Fed. Mediation and Conciliation Service; mem. loyalty review board U.S. Civil Service Comm. 1948-53; Chair. La. Labor Mediation Board 1953-67; mem. La. Labor-Management Comm. of Inquiry 1967-; mem. America Arbitration Assn., Nat. Acad. of Arbitrators, La., Board of Govs. 1946-47, 1953; mem. Assn. American Law Schools, Chair. Cttee. on Interamerican Co-operation 1945-47, Chair. Exec. Cttee. 1946-47; Legion of Merit; Hon. LL.D. (Loyola State) 1968; Democrat. *Address:* 2331 Kleinert Avenue, Baton Rouge, La. 70806. U.S.A. (Home).

HECK, Bruno, DR. PHIL.; German teacher and politician; b. 20 Jan. 1917; m.; three s. three d.; ed. Tübingen Univ.; fmr. teacher; Ministry of Education, Württemberg 1950-52; Exec. Sec. Christian Democrat Party (CDU) 1952-62; mem. Bundestag 1957-76; Minister of Family and Youth Affairs 1961-68; Sec.-Gen. of CDU 1967-71; Chair. Deutsche Welle; Pres., Konrad Adenauer Foundation 1968-. *Leisure interest:* hiking. *Address:* Rochusweg 45, 5300 Bonn, Federal Republic of Germany.

HECKMANN, Otto, DR. PHIL.; German astronomer; b. 23 June 1901, Opladen/Rhineland; s. of Max and Agnes (Grüter) Heckmann; m. Johanna Topfmeier 1925; one s. two d.; ed. Univ. of Bonn; Asst. Bonn Univ. Observatory 1925-27, Göttingen 1927-35; Asst. Prof. Göttingen 1935-39, Acting Dir. Göttingen Observatory 1939-41; Dir. Hamburg Observatory 1941-62; Dir. European Southern Observatory 1962-69; Prof. of Astronomy, Univ. of Hamburg 1941-69, Prof. Emer. 1969-; Pres. German Astronomical Society 1952-57; Pres. Int. Astronomical Union 1967-70; Research Assoc. Royal Astronomical Soc. (London); Hon. mem. American Astronomical Soc.; mem. of many Acads.; several hon. degrees and gold medals. *Publications:* Theorien der Kosmologie 1942, numerous technical articles in scientific journals. *Leisure interests:* history, music, hiking. *Address:* 2b Schmiedesberg, 2057 Reinbek, Federal Republic of Germany. *Telephone:* Hamburg 7221750.

HECKSCHER, August; American journalist and author; b. 16 Sept. 1913; ed. St. Paul's School, Concord, Yale and Harvard Univs.; Instructor in Govt., Yale Univ. 1939-41; Army service 1941-45; Editor Auburn (New York) Citizen-Adviser 1946-48; Chief Editorial Writer New York Herald Tribune 1948-56; Special Consultant, Pres. of U.S.A. on the Arts 1962-63; Parks Commr., New York 1967-74; Dir. Twentieth Century Fund; Gov. Yale Univ. Press, Fellow American Acad. of Arts and Sciences. *Publications:* These Are The Days 1936, A Pattern of Politics 1947, The Politics of Woodrow Wilson 1956, Diversity of Worlds (with Raymond Aron) 1957, The Public Happiness 1963. *Address:* 159 East 94th Street, New York, N.Y. 10021, U.S.A.

HECKSCHER, Gunnar Edvard, D.PHIL.; Swedish professor and politician; b. 8 July 1909, Djursholm; s. of Prof. Eli and Ebba (née Westberg) Heckscher; m. Anna Britta Vickhoff 1934; three s. one d.; ed. Uppsala Univ. and King's Coll., Cambridge; Lecturer of Political Science, Uppsala Univ. 1933-41, Stockholm Univ. 1941-48, Prof. 1948; Dir. Stockholm School of Social Work and Local Admin. 1941-54; Co-Dir. Inst. of Public Admin., Ankara 1952-53; Dir. Swedish Inst. for Cultural Relations 1954-57; Chair. Bd. of Psychological Defence 1954-59; mem. of Riksdag (Lower House of

Parl.) 1957-65; Parl. Leader and Chair. Conservative Party 1961-65; Amb. to India 1965-71, to Japan 1975; mem. Consultative Assembly, Council of Europe 1957-65; Chair. Econ. Cttee. 1960-65. *Publications:* Démocratie Efficace 1957, The Study of Comparative Government 1957, Trygga folkstyret! 1963, Asiatiskt maktspel 1977 etc. *Leisure interests:* yachting, walking. *Address:* c/o Ministry of Foreign Affairs, Stockholm, Sweden.

HEDAYATI, Hadi; Iranian educationist and politician; b. 1923; ed. Teheran Univ., Faculté de Droit, Paris Univ., and Sorbonne, Paris; Asst. Prof. Teheran Univ. 1952-62, Prof. 1962-; Legal Counsellor, Iran Insurance Co. 1952-57; Counsellor, High Council of Econs. 1957-60; High Counsellor, Ministry of Commerce 1960; Exec. Man. Bimeh (Insurance) Bank 1960-62; Deputy to Majlis 1963; Advisory Minister 1963; Minister of Educ. 1964-68; Advisory Minister 1968-73; Minister of State and Exec. Asst. to Prime Minister 1973-74; Minister of State, Exec. Deputy to Prime Minister in Admin. Affairs 1975-77; Homayoun Medal, Palmes académiques (France); Imperial Award for best book of the year 1958, 1959. *Publications:* History of the Zand Dynasty in Iran, A Study of Iranian Handwritten Works in the 13th Hegyra Century, Cyrus the Great; translations into Persian: History of Herodotus, The Principles of Administrative Management.

HEDBERG, Hollis D., M.S., PH.D.; American petroleum geologist and stratigrapher; b. 29 May 1903, Falun, Kan.; s. of Carl A. Hedberg and Zada Mary Dow; m. Frances Murray 1932; four s. one d.; ed. Kansas, Cornell and Stanford Univs.; Petrographer, Lago Petrol Co. (Venezuela) 1926-28; various posts in geology and exploration for Gulf Oil Corpn. and subsidiaries 1928-; stratigrapher and asst. chief geologist (Venezuela) 1928-46, exploration man., Foreign Production Div. (New York) 1946-52, exploration co-ordinator (Pittsburgh) 1952-57, Vice-Pres. for exploration 1957-64, Exploration Advisor 1964-; Prof. of Geology, Princeton Univ. 1959-71, Prof. Emer. 1971-; American Comm. of Stratigraphic Nomenclature 1946-60, Chair. 1950-52; Pres. Int. Subcomm. on Stratigraphic Classification 1952-76; Vice-Pres. Int. Comm. on Stratigraphy 1968-; Pres. Geological Soc. of America 1959-60, Pres. American Geological Inst. 1962-63; Chair. U.S. Nat. Cttee. on Geology 1965-66, Nat. Petroleum Council Technical Subcttee. 1967-73; mem. U.S. Nat. Cttee. World Petroleum Congresses 1965-; Vice-Pres. Paleontological Soc. 1952; Assoc. Editor American Assen. of Petroleum Geologists 1937-; Dir. Cushman Foram Foundation 1957-63; Chair. JOIDES Safety and Pollution Prevention Panel 1970-; Editor International Stratigraphic Guide of Int. Union of Geological Sciences 1976; Rep. to Nat. Research Council for Assen. of Professional Geological Scientists 1978-; mem. U.S. Nat. Cttee. of Int. Geological Correlations Program 1976-; mem. Nat. Acad. of Sciences; mem. Corpn. Woods Hole Oceanographic Inst. 1972-; Foreign mem. Geological Soc. (London), Royal Danish Acad. of Sciences; Hon. mem. Geological Soc. (Stockholm), Venezuelan Assen. of Minerals and Geology, Medalla Honor Instrucción Pública, Venezuela 1941; Dr. h.c. (Uppsala) 1977; Sidney Powers Medal of American Assen. of Petroleum Geology 1963, Distinguished Service Award, Univ. of Kansas 1963, Mary Clark Thompson Award, Nat. Acad. of Sciences 1973, Human Needs Award, American Assen. Petroleum Geologists 1973, Distinguished Achievement Award, Offshore Tech. Conf. 1975, Wollaston Medal, Geological Soc. of London 1975. *Publications:* number of principal works by subject: compaction of sediments and sedimentary petrology 3; micropaleontology 4; regional geology of northern South America 10; stratigraphic principles 30; origin of petroleum 6; petroleum geology and geological techniques 6; petroleum developments in Africa 12; petroleum resources 5; geology of the oceans 6; law of the sea 7; history and progress of geology 5. *Leisure interests:* tennis, gardening, history of geology. *Address:* 118 Library Place, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 609-921-7833.

HEDDA, Ali; Tunisian diplomatist; b. 30 Oct. 1930, Sousse; s. of Belhassen and Nefissa Hedda; m. Nadra Becheur 1958; one s. one d.; ed. Inst. des Sciences Politiques, Paris; Attaché, Tunisian Embassy, Washington, D.C. 1956; Ministry of Foreign Affairs 1957; seconded to Secr. of State for Planning and Nat. Econ. 1958; Minister Plenipotentiary, Tunisian Embassy, Rome 1966; Amb. to Senegal, concurrently accred. to Mali, Mauritania, Guinea, Liberia, Sierra Leone and The Gambia 1970; Dir. of Int. Co-operation, Ministry of Foreign Affairs 1972; Dir. Office of the Prime Minister 1973; Amb. to U.S.A. (also accred. to Mexico and Venezuela) 1974-; Grand Officer Order of the Repub. (Tunisia), Order of the Repub. (Italy). *Address:* Embassy of Tunisia, 2408 Massachusetts Avenue, N.W., Washington, D.C. 20008 (Office); 5131 Broad Branch Road, Washington, D.C., U.S.A. (Home).

HEDEN, Carl-Göran, M.D.; Swedish scientist; b. 11 Sept. 1920, Stockholm; ed. Karolinska Institutet, Stockholm; Resident Prof. of Bacteriological Bioengineering, (Medical Research Council) 1964-, Head of Dept., Karolinska Institutet 1964-74; mem. Exec. Cttee. Int. Union of Biological Sciences (IUBS), Int. Council of Scientific Unions (ICSU); mem. COSPAR Consultative Group on Potentially Harmful Effects of Space Experiments, WHO Expert Advisory Panel on Immunology; mem. Special Cttee. for Int. Biological Programme; mem. Convenor Panel on Applied Microbiology of Int. Cell Research Org.; Vice-Pres. and Chair. Advisory Council Int. Assen. of Microbiological Socs. (IAMS); Fellow New York Acad. of Sciences, World Acad. of Art and Science (Vice-Pres. 1977); mem. Royal Swedish Acad. of Engineering Sciences and Chair. Div. for Biotechnology. *Address:* Kungliga Karolinska Institutet, Stockholm 60, Sweden.

HEES, Hon. George H., P.C.; Canadian politician; b. 17 June 1910; ed. Trinity Coll. School, Royal Mil. Coll., Univ. of Toronto and Cambridge Univ.; served overseas as Brigade Maj., 5th Infantry Brigade; Dir. Woodgreen Community Centre; mem. House of Commons 1950-; Minister of Transport 1957-60; Minister of Trade and Commerce 1960-63; Pres. Montreal and Canadian Stock Exchanges 1964; Progressive Conservative. *Address:* 7 Coltrin Place, Ottawa, Ont.; Rathbunwood, Cobourg, Ont., Canada.

HEESCHEN, David Sutphin, PH.D.; American radio astronomer; b. 12 March 1926, Davenport, Iowa; s. of Richard G. and Emily S. Heeschen; m. Eloise St. Clair 1950; two s. one d.; ed. Univ. of Illinois, Harvard Univ. Lecturer, Wesleyan Univ. 1954-55; Research Assoc. Harvard Univ. 1955-56; Astronomer, Nat. Radio Astronomy Observatory 1956-, Dir. 1962-78, Sr. Scientist 1977-; mem. Nat. Acad. of Sciences, American Astron. Soc. (Vice-Pres. 1969-71), Int. Astron. Union (Vice-Pres. 1976-82), Int. Scientific Radio Union, American Acad. of Arts and Sciences, American Philosophical Soc., American Assen. for the Advancement of Science. *Address:* National Radio Astronomy Observatory, Edgemont Road, Charlottesville, Va. (Office); 1930 Barracks Road, Charlottesville, Va., U.S.A. (Home). *Telephone:* 804-296-0227 (Office); 804-296-7321 (Home).

HEFNER, Hugh Marston, B.S.; American publisher and gaming promoter; b. 9 April 1926, Chicago, Ill.; s. of Glenn L. and Grace (née Swanson) Hefner; m. Mildred Williams 1949 (divorced 1975); one s. one d.; ed. Univ. of Illinois; Editor and Publisher, Playboy Magazine 1953-, Oui Magazine 1972-; Chair. H.M.H. Publishing Co. (now Playboy Enterprises) 1953-. *Leisure interest:* backgammon. *Address:* Playboy Enterprises Inc., 919 North Michigan Avenue, Chicago, Ill. 60611, U.S.A. *Telephone:* (312) 751-8000.

HEGAZY, Abdel Aziz Muhammad, D.PHIL.; Egyptian politician; b. 3 Jan. 1923; ed. Fuad Univ., Cairo, Birmingham Univ.; Dean, Faculty of Commerce, Ain Shams Univ. 1966-68; mem. Nat. Assembly 1969-75; Minister of the Treasury 1968-73; Deputy Prime Minister, Minister of Finance, Econ. and Foreign Trade 1973-74; First Deputy Prime Minister April-Sept. 1974, Prime Minister 1974-75; now teaching and working as a management consultant and certified accountant in Cairo, Jeddah and Beirut. *Address:* Cairo, Egypt.

HEGDE, Kawdoor Sadanand, M.A., B.L.; Indian lawyer and politician; b. 11 June 1909, Kawdoor, Mysore; s. of late K. Subbaya Hegde; m. Meenakshi S. Hegde 1934; three s. three d.; Advocate 1935; Govt. Pleader and Public Prosecutor 1947-51; mem. Lok Sabha 1952-57, March 1977-, Speaker July 1977-; Judge, High Court of Mysore 1957; Chief Justice, Delhi High Court 1966; Judge, Supreme Court of India 1967-73; led parl. del. to Commonwealth parl. conf., Canada 1977; led parl. del. to Japan and Repub. of Korea 1978; Hon. LL.D. (Kyung Hee Univ., Repub. of Korea); mem. Janata Party. *Publications:* Crisis in Judiciary, Directive Principles. *Leisure interest:* gardening. *Address:* 20 Akbar Road, New Delhi; and 244 Palace Upper Orchards, Bangalore 6, India. *Telephone:* 387264 (New Delhi); 32337 (Bangalore).

HEGELAN, Sheikh Faisal Abdul Aziz al-; Saudi Arabian diplomatist; b. 7 Oct. 1929, Riyadh; s. of Sheikh Abdul Aziz al-Hegalan and Fatima al-Hegelan; m. Nouha Tarazi 1961; three s.; ed. Faculty of Law, Fouad Univ., Cairo; Ministry of Foreign Affairs 1952-54; served Embassy in Washington, D.C. 1954-58; Chief of Protocol in Ministry 1958-60; Political Adviser to H.M. King Sa'ud 1960-61; Amb. to Spain 1961-68, to Venezuela and Argentina 1968-75, to Denmark 1975-76, to U.K. 1976-79; Order of King Abdulaziz, Gran Cruz, Order of Isabela la Católica (Spain), Gran Cordon, Orden de Libertador (Venezuela), Grande Oficial, Orden Riobranco (Brazil). *Leisure interests:* bridge, golf. *Address:* c/o Ministry of Foreign Affairs, Jeddah, Saudi Arabia.

HÉGER, Charles Emile Victor, D. EN D.; Belgian lawyer and politician; b. 26 May 1902, Brussels; mem. House of Reps. 1946-;

Minister of Agriculture 1950-54, 1961-71, of the Interior 1958-60; mem. Christian Social Party. *Address:* 155 rue de la Loi, Brussels; and Vedrin (Province de Namur), Belgium.

HEIDE, Harm Ter; Netherlands trade unionist; b. 10 March 1928, Almelo: m. B. W. Schot 1955; ed. secondary school and Free Univ. in Amsterdam; Railway Officer, Netherlands Railways until 1957; Econ. Adviser, Nederlands Verbond Van Vakverenigingen (Netherlands Fed. of Trade Unions) 1957, Sec.-Editor 1965, Pres. 1971-72; mem. Econ. and Social Cttee. of EEC and EURATOM 1966-71; Vice-Pres. Foundation of Labour; mem. various nat. econ. and social cttees. *Publications:* Many articles on social-economic problems and particularly on Common Market problems. *Address:* c/o Nederlands Verbond Van Vakverenigingen, Amsterdam-Slotermeer, P.O. Box 8110, Netherlands. *Telephone:* 020-134626.

HEIDE-JØRGENSEN, Erling; Danish jurist; b. 18 Dec. 1910, Middlefart; s. of Henning Heide-Jørgensen and Sarita Petersen; m. Aase Kjærsgaard 1938; two s. two d.; ed. Københavns Universitet; Civil Servant, Ministry of Justice 1936-52, Chief of Section 1950-52; Nat. Commr., Danish Police 1952-; Del. Inst. Criminal Police Org. 1953, mem. Exec. Cttee. 1960-63; Pres. Danish Fire Protection Assen. 1959. *Leisure interest:* music. *Address:* Strandv. 223, 2920 Charlottenlund, Denmark.

HEIDELBERGER, Michael, B.S., A.M., PH.D.; American chemist; b. 29 April 1888, New York; s. of David and Fannie (Campe) Heidelberger; m. 1st Nina Tachau 1916 (died 1946), 2nd Charlotte Rosen Salamonski 1956; one s.; ed. public and Ethical Culture schools, Columbia Univ. and Federal Polytechnic Inst., Zürich; Asst. in Chemistry Summer Sessions Columbia Univ. 1909 and 1911; Fellow, Asst., Assoc. and Assoc. mem. of the Rockefeller Inst. for Medical Research 1912-27; Chemist to Mount Sinai Hospital 1927-28; and Presbyterian Hospital of New York 1928-56; Assoc. Prof. of Biological Chem., Columbia Univ. 1929-45, Prof. of Biochemistry 1945-48, Prof. of Immuno-Chem. 1948-56, Emer. 1956-; Visiting Prof. of Immuno-Chem. Rutgers Univ. 1955-64; Adj. Prof. of Pathology (Immunology) New York Univ. 1964-; Chair. of the Research Council, Public Health Research Inst. of New York City 1951-56; Consultant to Sec. of War 1942-46; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Chemical Soc., American Soc. of Biological Chemists, American Acad. of Microbiology, American Soc. of Microbiologists; Past Pres. Harvey Soc., American Assen. of Immunologists; foreign mem. Royal Danish Acad. of Sciences 1957-, Accademia Nazionale dei Lincei 1963-, Royal Soc. 1975-; Foreign Assoc. French Nat. Acad. of Medicine; Hon. mem. French Soc. of Immunologists, German and British Socs. for Immunology, Mexican Soc. for Allergy and Immunology; Hon. Life mem. New York Acad. of Sciences 1976; Hon. mem. faculties of several univs.; many honorary doctorates; Ehrlich Silver Medal 1933, Lasker Award 1952, 1978, von Behring Prize 1954, Louis Pasteur Gold Medal (Swedish Medical Soc.) 1960, T. Duckett Jones Memorial Award 1964, Nat. Medal for Science 1967, New York Acad. of Medicine Medal 1968, von Pirquet Gold Medal 1971, Virchow Soc. Gold Medal 1973, Claude Hudson Award 1978; Officier Légion d'honneur 1966, Officier, Ordre de Léopold II 1953. *Publications:* Advanced Laboratory Manual of Organic Chemistry 1923, Lectures in Immuno-Chemistry 1956; numerous papers. *Leisure interest:* music. *Address:* Department of Pathology, New York University School of Medicine, 550 First Avenue, New York, N.Y. 10016 (Office); 333 Central Park West, New York, N.Y. 10025, U.S.A. (Home).

HEIDWEILLER, Henricus Augustinus Franciscus; Suriname diplomatist; b. 10 Feb. 1929, Paramaribo; m.; Lecturer in civil law, Suriname Law School 1955-58; mem. Parl. 1958-67; Head of Office for Foreign Relations in Paramaribo 1962-68; del. to Council of Caribbean Org. 1960-64; Minister attached to Netherlands Mission to UN 1968-75, Amb. of Suriname to UN Dec. 1975-, Vice-Chair. Fourth Cttee. (Trust and Non-Self Governing Territories) of Gen. Assembly 1973. *Address:* Permanent Mission of Suriname to the United Nations, 1 United Nations Plaza, 26th Floor, New York, N.Y. 10017, U.S.A.

HEIFETZ, Jascha; Russian-born American violinist; b. 2 Feb. 1901; ed. Petrograd (now Leningrad) Conservatoire of Music; first appearance at age five; concerts Russia, Germany, Austro-Hungary, Scandinavia, U.S. 1917, later England; toured Australia and New Zealand 1921, Far East 1923, world tour 1925-27; 1st Vice-Pres. American Guild Musical Artists; hon. mem. Soc. of Concerts, Paris, Assen. des Anciens Elèves du Conservatoire, Cercle Int. de la Jeunesse Artistique; hon. Vice-Pres. Mark Twain Society U.S.; hon. Pres. Musicians' Fund of America; Légion d'honneur. *Address:* Beverly Crest, Beverly Hills, Calif. 90210, U.S.A. (Home).

HEIGERT, Hans A., DR.PHIL.; German journalist; b. 21 March 1925, Mainz; m. Hildegard Straub 1951; three s. two d.; ed. Ludwigburg High School, Univs. of Stuttgart, Heidelberg and Oklahoma; served with army 1943-45 before resuming education; worked as a journalist in newspapers, radio and television from 1950, becoming Chief Editor, Sueddeutsche Zeitung 1970-; winner of Theodor Heuss Preis 1969; Bayerischer Verdienstorden 1974. *Publications:* Staetten der Jugend 1958, Sehnsucht nach der Nation 1966, Deutschlands Falsche Traeume 1968. *Address:* Sueddeutsche Zeitung, 8000 Munich 2, Sandlingerstrasse 80, Federal Republic of Germany. *Telephone:* 21831.

HEIKAL, Muhammed Hassanein; Egyptian journalist; b. 1923; m.; three s.; Reporter Akher Saa magazine 1944; Editor Al-Akhbar daily newspaper 1956-57; Editor-in-Chief Al-Ahram daily newspaper 1957-74; mem. Central Cttee. Socialist Union 1968-; Chair. Al-Ahram Establishment Board 1960-74; ordered to resign Oct. 1975; Minister of Nat. Guidance April-Oct. 1970. *Publications:* Nahnou wa America 1967, Nasser: The Cairo Documents 1972, The Road to Ramadan 1975, Sphinx and Commissar 1979. *Address:* Al Ahram Building, Gallaa Street, Cairo, Egypt.

HEILBRONER, Robert L., PH.D., LL.D.; American economist; b. 24 March 1919, New York; s. of Louis and Helen (née Weiller) Heilbroner; m. 1st Joan Knapp 1952 (divorced 1975); m. 2nd. Shirley Davis 1975; two s.; ed. Harvard Univ., New School of Social Research; Norman Thomas Professor, Dept. of Econs., Graduate Faculty, New School of Social Research 1966-; hon. degrees from La Salle Univ. and Ripon Coll. *Publications:* numerous articles and books, including The Worldly Philosophers 1953, The Future as History 1959, An Inquiry into the Human Prospect 1975, Beyond Boom and Crash 1978. *Leisure interests:* piano, bird watching. *Address:* 830 Park Avenue, New York, U.S.A.

HEILIGER, Bernhard; German sculptor; b. 11 Nov. 1915; ed. Stettin Art School, Berlin Acad. of Fine Arts and in Paris; Prof. of Plastic Arts, High School of Pictorial Arts, Berlin-Charlottenburg 1949-; numerous exhbns. in Europe and elsewhere; works in German and foreign museums and private collections; mem. Berlin Acad. of Arts; Berlin Art Prize 1950, Cologne Art Prize 1952, Nat. and Int. Prize, Inst. of Contemporary Arts, London and Great Art Prize, Nordrhein-Westfalen. Notable works include Flamme for Ernest-Reuter-platz, Berlin, Auftakt for Berlin Philharmonic Orchestra, 15 reliefs in Market Place, Bremen, Kosmos for Reichstag, Berlin. *Address:* Käuzchensteig 12, Berlin-Dahlem, Germany. *Telephone:* 8312012.

HEIM, Roger Jean, ING., E.C.P., D.ÈS sciences naturelles, F.R.S.E., F.L.S.; French scientist; b. 12 Feb. 1900; s. of Henri and Pauline Noémie (née Sauvion) Heim; m. Panca Eftimiu 1935; one s.; Curator, Alpine Garden (Faculty of Sciences, Grenoble) 1923-25; Demonstrator, Ecole des Hautes Etudes, Paris 1926; Asst. at Nat. Museum of Natural History 1927-32, Deputy Dir. Cryptogamic Laboratory 1932-45, Dir. Laboratory of Mycology and Phytopathology 1940-72, Ultrastructural Cryptogamic 1972-, Prof. and Dir. Cryptogamic Laboratory 1945-73; Dir. Museum of Natural History 1951-65; mem. Acad. d'Agriculture 1945, Acad. des Sciences 1946, Acad. des Sciences d'Outre-Mer 1947, Acad. Royale de Belgique 1948, Acad. Leopoldina 1962-; Pres. Soc. de Pathologie végétale 1937, Soc. mycologique 1945, Soc. Botanique de France 1948, Société française de Microscopie 1948, Assen. française pour l'avancement des Sciences 1951; Union int. pour la Conservation de la Nature 1954; Société des Océanistes 1954-; Pres. Fondation-Singer-Polignac 1958-; Pres. Académie des Sciences 1963; Dr. h.c. (Uppsala); Grand Officier, Légion d'honneur 1975, Médaille de la Résistance, Croix de guerre, etc. *Publications:* Le Genre Inocybe 1931, Fungi iberici: Observations sur la flore mycologique catalane 1934, Les champignons toxiques 1938, Les Lactario—Russules de Madagascar 1938, La reproduction chez les plantes 1938, Etudes sur les agarics termitophiles africains 1940-52, La sombre route 1947, Les champignons, tableaux d'un monde étrange 1948, Destruction et Protection de la Nature 1952, Les Lactaires d'Afrique interropicale 1955, Un naturaliste autour du monde 1955, La langue française et la science 1955, Les champignons d'Europe 1957, 1969, Les champignons hallucinogènes du Mexique (with R. G. Wasson) 1958, Les champignons toxiques et hallucinogènes 1963, Nouvelles investigations sur les agarics hallucinogènes 1967, L'angoisse de l'an 2000 1973. *Address:* Laboratoire de Cryptogamie du Muséum, 12 rue de Buffon, 75005 Paris, France. *Telephone:* 331-35-21.

HEIMANN, Robert Karl, B.A., M.A., PH.D.; American business executive and security analyst; b. 22 Sept. 1918, New York; s. of Charles and Elizabeth (Quinan) Heimann; m. Charlotte Temple Parker 1950; one s. one d.; ed. Princeton and New York Univs.;

Editor Nation's Heritage 1948-49; Man. Editor and Exec. Editor Forbes Magazine of Business and Finance 1949-54; Exec. Asst. The American Tobacco Co. 1954-60, Asst. to the Pres. 1961-64, Dir. 1963, Vice-Pres. for marketing and public relations 1964-66, Exec. Vice-Pres. 1966-69; Pres. 1969-77, Chair. 1977-; Pres. American Brands Inc. 1969-73, Chair. and Pres. 1973-76, Chair. 1977-. *Publication:* Tobacco and Americans 1960. *Address:* American Brands, Inc., 245 Park Avenue, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 557-8711.

HEIMO, Marcel; Swiss diplomatist; b. 1917, Fribourg; ed. Univs. of Fribourg and Vienna and in U.S.A.; Entered Swiss National Bank, Zurich 1942; Federal Finance Admin. 1945; joined Political Dept. 1947, subsequently posted to London and Brussels; returned to Berne 1952-54; mem. Swiss Del. to OEEC, Paris 1954; transferred to London 1961-66; Personal Adviser to Pres. of Rwanda 1966-68; Amb. to India and Nepal 1968-69; Head Perm. Swiss Del. to OECD 1969-73; del. for Technical Co-operation, Berne 1974; Dir. Devt. Corpn. and Humanitarian Aid 1977-. *Address:* c/o Ministry of Foreign Affairs, 3003 Berne, Switzerland.

HEIMPEL, Hermann, DR. PHIL.; German historian; b. 19 Sept. 1901, Munich; s. of Hermann Martin Heimpel and Johanna Brack; m. Elisabeth Michel 1928; three s. two d.; Privatdozent, Univ. of Freiburg im Breisgau 1927, Prof. 1931; Prof., Univ. of Leipzig 1934, Strasbourg 1941; Extraordinary Prof. Univ. of Göttingen 1946, Prof. 1947-66, Emer. 1966-; fmr. Dir. of Max-Planck-Inst. for History, Göttingen; D.Iur. h.c.; mem. Acads. of Science of Göttingen, Heidelberg and Leipzig, Acad. of Science and Literature, Mainz, Bavarian Acad. of Sciences, Royal Historical Soc. (U.K.), Deutsche Akademie für Sprache und Dichtung, and other historical socs. *Publications include:* Der Mensch in seiner Gegenwart (2nd edn.) 1957, Kapitulation vor der Geschichte (3rd edn.) 1960, Drei Inquisitionsverfahren aus dem Jahre 1425 1969, Studien zur Kirchen und Reichsreform 1974, Die halbe Violine (novel) 1975, Die Vener . . . studien und texte zur Geschichte einer familie und des Gelehrten Beamtentums . . . 1978. *Leisure interest:* music. *Address:* 34 Göttingen, Dahlmannstrasse 14, Federal Republic of Germany. *Telephone:* 59382, 54021.

HEINDL, Gottfried, PH.D.; Austrian administrator; b. 5 Nov. 1924, Vienna; s. of Edmund Heindl and Eugenie Holzinger; m. Marianne Caliandjiev 1959; two s.; ed. Univ. of Vienna; Editor, Österreichischer Wirtschaftsverlag 1946-50; Neue Wiener Tageszeitung 1950-55; Press Sec. Austrian People's Party 1955-66; Dir. Austrian Inst., New York 1967-70; Gen. Admin. Austrian State Theatres 1970, Dir. for Cultural Affairs 1971-. *Publications:* Geschichten von gestern—Geschichten von heute 1965, Und die Grösse ist gefährlich 1969, Wien—Brevier einer Stadt 1972. *Address:* Vienna 1010, Goethegasse 1, Austria. *Telephone:* 5324/2625.

HEINESEN, Knud; Danish politician; b. 26 Sept. 1932, Kerteminde; s. of Heine S. Heinesen and Else Rasmussen; m. Aase Windfeld 1955; two s. one d.; Teacher, Roskilde Folk School 1959, Principal 1962-67; Sec. Econ. Council, Labour Movt. 1960; Gen. Sec. Fed. of Co-operative Socs. 1967-68; Chair. Radio Council 1967; Assoc. Prof. of Poltical Economy, Copenhagen Graduate School of Econs. and Business Admin. 1968; mem. of Parl. 1971-; Minister for Educ. 1971-73, of the Budget 1973-, of Finance 1975-; fmr. mem. numerous educational and radio cttees. etc.; Social Democrat. *Leisure interest:* painting. *Address:* Strandvejen 71B, 2100 Copenhagen, Denmark.

HEINESEN, William; Danish (Faeroese) author; b. 15 Jan. 1900, Thorshaven, Faeroe Islands; s. of Zacharias Heinesen and Caroline Restorff; m. Elisa Johansen; three s.; ed. commercial schools, Copenhagen; writes generally about Faeroese subjects; also draws and paints; mem. Danish Literary Acad.; Scandinavian Literature Prize 1965. *Publications Novels:* Noatun 1938, The Black Pot 1949, The Lost Fiddlers 1950, Mother of the Seven Stars 1952, Windy Dawn 1961, The Good Hope 1964; stories: The Enchanted Light 1957, The Bewitched Gamaliel 1960, Cure for Evil Spirits 1967, Don Juan from The Train Oil House 1970. *Address:* Vardagöta 33, Thorshaven, Faero Islands. *Telephone:* Thorshaven 1636.

HEINTZE, Gerhard, DR.THEOL.; German ecclesiastic; b. 14 Nov. 1912, Wehre, Kreis Goslar; s. of late Pastor Karl and Cölestine (née Schwerdtmann) Heintze; m. Ilse Hoppe 1941; two s. three d.; ed. Humanistisches Gymnasium, Bremen and theological studies in Tübingen, Göttingen and Manchester; ordained 1938; Pastor of Hollern-Tweilenfleth 1942-46; Insp. of Mission, Hermannsburg 1946-50; Dir. of seminary, Hannover 1950-57; Senior Minister, Hildesheim 1957-61; Senior Minister of Lower Saxony, Hildesheim 1961-65; Bishop of Evangelical-Lutheran Church, Brunswick 1965-. *Publication:* Luthers Predigt von Gesetz und Evangelium 1958. *Leisure interest:* music. *Address:* 334 Wolfenbüttel, Neuer Weg 88-90, Federal Republic of Germany. *Telephone:* 05331 802 229.

HEINZ, Henry John, II, B.A.; American industrialist; b. 10 July 1908, Sewickley, Pa.; s. of Howard Heinz and Elizabeth Rust; m. Drue English Maher 1953; one s. by previous marriage (Henry John Heinz III, *q.v.*); ed. Yale Univ. and Trinity Coll., Cambridge; Salesman H. J. Heinz Co. Ltd. London 1932-33, in Sales Dept. 1934-37, Asst. to Pres. 1937-41, Pres. 1941-59, Chair. 1959-; Dir. Mellon National Bank & Trust Co. Pittsburgh; Trustee, Carnegie Institute, Carnegie-Mellon Univ., Nutrition Foundation, U.S. Council of Int. Chamber of Commerce; Trustee of Cttee. for Econ. Dev.; Chevalier, Légion d'honneur, Commdr., Order of Merit (Italy), Cross of Commdrs. Royal Order of the Phoenix; Hon. K.B.E. 1977. *Leisure interest:* skiing. *Address:* 1062 Progress Street, Pittsburgh, Pa. 15212 (Office); Goodwood, Sewickley, Pa. 15143, U.S.A. (Home).

HEINZ, Henry John, III, M.A.; American politician and former company executive; b. 23 Oct. 1938, Pittsburgh, Pa.; s. of Henry John Heinz II (*q.v.*) and Joan (Diehl) Heinz McCauley; m. Teresa Simoes-Ferreira 1966; three s.; ed. Yale Univ., Harvard Business School; served U.S.A.F. 1963-69; Gen. Production Man. Marketing H. J. Heinz Co. 1965-70; lecturer, Carnegie-Mellon Univ. Graduate School of Industrial Admin. 1970-71; mem. House of Reps. from 18th Dist. of Pa. 1971-76; Senator from Pa. Jan. 1977-; del to Republican Nat. Convention 1968, 1972; Chair. Pa. Republican Platform Cttee. 1970; Trustee, Howard Heinz Endowment, Children's Hosp., Pittsburgh; Chair. H. J. Heinz II Charitable and Family Trust; mem. Board of Overseers, Harvard Business School, mem. American Inst. of Public Service. *Address:* 443 Russell Senate Office Building, Washington, D.C. 20510 (Office); 1950 Squaw Run Road, Pittsburgh, Pa. 15238, U.S.A. (Home).

HEINZE, Sir Bernard Thomas, Kt., M.A., F.R.C.M.; Australian university professor and conductor; b. 1 July 1894, Shepparton, Victoria; s. of Benjamin and Minnie (Greenwell) Heinze; m. Valerie Antonia Hennessy 1932; three s.; ed. Univ. of Melbourne, Royal Coll. of Music, London and Schola Cantorum, Paris; appointed to academic staff, Univ. of Melbourne 1924, Ormond Prof. of Music, Univ. Melbourne 1925-27; Dir. Gen. of Music for Australian Broadcasting Co. 1929-32; Conductor, Royal Melbourne Philharmonic Society 1928-; Melbourne Symphony Orchestra 1933-46 and now Victorian Symphony Orchestra; Dir. State Conservatorium of N.S.W. 1957-66; conductor to Australian Broadcasting Comm.; Chair. Commonwealth Assistance to Australian Composers 1967-, Music Advisory Cttee. Australian Council for The Arts 1969-; Officer, Order of the Crown (Belgium), Order of Polonia Restituta 1972; Hon. LL.D. (British Columbia), D.Mus. (W. Australia). *Leisure interests:* golf, philately, antique furniture. *Address:* 101 Victoria Road, Bellevue Hill, Sydney, N.S.W., Australia. *Telephone:* Sydney 36-3164.

HEISBOURG, Georges; Luxembourg diplomatist; b. 19 April 1918, Hesperange; s. of Nicolas and Berthe (Ernsterhoff) Heisbourg; m. Hélène Pinet 1945; two s. one d.; ed. Luxembourg and Univs. of Grenoble, Innsbruck and Paris; Chief, Govt. Press and Information Service 1944-45; Attaché and Sec. to Legation, London 1945-51; Sec., Counsellor, Dir. Political Affairs, Ministry of Foreign Affairs 1952-58; Amb. to U.S.A. 1958-64; Perm. Rep. to UN 1958-61; Minister to Canada 1959-60, Amb. 1960-64; Minister to Mexico 1959-60, Amb. 1960-64, to Netherlands 1964-67, to France 1967-70; Perm. Rep. to OECD 1967-70; Sec.-Gen. WEU 1971-74; Amb. to U.S.S.R. 1974-77; head of Luxembourg del. to Council for Security and Co-operation in Europe meeting, Belgrade 1977-; numerous decorations from W. European countries and Mexico. *Leisure interests:* tennis, swimming. *Address:* c/o Ministry of Foreign Affairs, Luxembourg.

HEISKELL, Andrew; American press executive; b. 13 Sept. 1915, Naples, Italy; s. of Morgan and Ann (Hubbard) Heiskell; m. 1st Cornelia Scott 1937 (dissolved), 2nd Madeleine Carroll 1950 (dissolved), 3rd Marian Sulzberger Dryfoos 1965; three c.; ed. Germany, Switzerland, Univ. of Paris and Harvard School of Business Administration; Science teacher, Ecole du Montcel; settled in the U.S.A. 1935; Reporter, New York Herald Tribune 1936-37; Editorial staff Life magazine 1937-39, Asst. Gen. Man. 1939-40, Paris office 1940-42, Gen. Man. 1942-46, Publisher 1946-60; Vice-Pres. Time Inc. 1949-50, Chair. of Dirs. 1960-, Chief Exec. Officer 1969-; mem. Board of Dirs. Inter-Amer. Press Assn.; mem. Visiting Cttee., Joint Center for Urban Studies, M.I.T./Harvard Univ.; Board of Trustees Bennington Coll., New York Urban Coalition; Co-Chair. Nat. Urban Coalition. *Address:* Time Inc., Time & Life Building, Rockefeller Center, New York, N.Y. 10020, U.S.A. *Telephone:* 556-3495

HEISLER, Philip Samuel; American newspaperman; b. 8 Sept. 1915; ed. Pennsylvania State Coll.; Reporter McKeesport (Pa.) Daily News 1937-39; Sun-papers War Corresp. 1944-45; Ed. Sunday Sun Magazine, Baltimore 1945-46; Film Dir. Television Station WMAR-TV, Baltimore 1947-49; Reporter Evening Sun, Baltimore 1939-44, Man. Editor 1949; Owner Rabar Racing Stable. *Address:* The Sunpapers, Baltimore, Md. 21201 (Office); 4406 Bedford Place, Baltimore, Md. 21218, U.S.A. (Home).

HEISSENBÜTTEL, Helmut; German broadcasting official and writer; b. 21 June 1921; ed. Kaiser-Wilhelms-gymnasium, Wilhelmshaven, Realgymnasium, Papenburg, Technische Hochschule, Dresden, and Universitäten Leipzig und Hamburg; Publishers' Reader, Claassen Verlag, Hamburg 1955-57; Editor, Süddeutscher Rundfunk, Stuttgart (Chief Editor Radio-Essay) 1957-; mem. Akad. der Künste, Berlin, Akad. der Wissenschaften und der Literatur, Mainz; Hugo-Jacobipreis 1960, Georg Büchner-Preis 1969, Hörspielpreis der Kriegsblinden 1970. *Publications:* Kombinationen 1954, Topographien 1956, Textbuch 1 1960, Textbuch 2 1961, Textbuch 3 1962, Textbuch 4 1964, Textbuch 5 1965, Briefwechsel über Literatur (with Heinrich Vormweg) 1971, D'Alemberts Ende (novel) 1971, Zur Tradition der Moderne (essays and notes) 1972. *Address:* Donizettistrasse 21, 7 Stuttgart-Botnang, Federal Republic of Germany.

HEITLER, Walter, PH.D., F.R.S.; Irish university professor; b. 2 Jan. 1904, Karlsruhe, Germany; s. of Prof. Adolf Heitler and Ottilie Rudolf; m. Kathleen Winifred Nicholson 1942; one s.; ed. Univs. of Berlin and Munich; Privat Dozent Univ. of Göttingen 1929-33, Research Fellow, Univ. of Bristol 1933-41; Prof. Dublin Inst. for Advanced Studies 1941-49, Dir. 1946-49; Prof. of Theoretical Physics, Univ. of Zürich 1949-; mem. Royal Irish Acad., Royal Soc. of Sciences of Uppsala, Acad. of Sciences, Leopoldina, Halle, Akad. der Wissenschaften, Mainz; mem. Det. Kongelige Norske Videnskabers Selskab; Hon. D.Sc., Hon. Dir. rer. nat., Hon. Dr. Phil.; Max Planck Medal 1968, Marcel Benoist Prize 1969, Literary Prize of the Stiftung für Abendländische Besinnung 1976, Gold Medal of the Humboldt-Gesellschaft 1979. *Publications:* Theory of Chemical Bond 1927, Quantum Theory of Radiation, Elementary Wave Mechanics, Der Mensch und die naturwissenschaftliche Erkenntnis 1961, 4th Edn. 1966, Man and Science 1963, Naturphilosophische Streifzüge 1970, Naturwissenschaft ist Geisteswissenschaft 1972, Die Natur und das Gottliche 1974, 4th edn. 1977, Gottesbeweise? 1977; and papers on cosmic rays, Meson theory, Quantum-electrodynamics and philosophy of science. *Address:* Am Guggenberg 5, 8053 Zürich, Switzerland. *Telephone:* 01-531266.

HEKMAT, Ali Asghar: Iranian politician, educationist and writer; b. 1893, Shiraz; s. of Moazzam-e-din Hekmat; m. 1920; three d.; ed. American High School and Univ. of Paris; Dir.-Gen. of Education 1928-30; Acting Minister of Education, Religious Foundations and Fine Arts 1933-34; Minister of Education 1934-37; Pres. Teheran Univ. 1935-38, Prof. of Literature and History of Religions 1940, Prof. Emer. 1963; Pres. Iranian Acad. 1938; Minister of the Interior 1939-40, of Public Health 1941-43, of Justice 1943; head of cultural mission to India 1944; Pres. Iranian Nat. Comm. for UNESCO 1946-; Minister without Portfolio June 1947; Vice-Pres. Iranian Red Cross 1948-51; Minister of Foreign Affairs 1948-50, 1958-59; Amb. to India, concurrently Minister to Thailand 1954-58; Pres. Soc. of Nat. Monuments 1970; Dean Coll. of Literature and Foreign Languages 1964; leader of several dels.; numerous Persian and foreign decorations; hon. mem. Arab Acad.; Hon. Ph.D. *Publications:* Sarzarmin-e-Hind, Shakuntala, translations of Shakespeare, Djami 1943, Majaless-ol Nafayess 1945, From Saadi to Djami (history of Persian literature) 1948, Parsiel-Naghze (anthology) 1951, Kashfol Asrar 1952, The Proverbs of the Koran 1953, A Short History of Persian Literature (in English) 1957, Treatise on Navai 1958, History of Religions (2 vols.) 1960-61; Editor Iranshahr (2 vols.) 1965. *Leisure interests:* reading, writing articles for revues and magazines, studying Persian poems. *Address:* Pol-é Roumi, Chémiran, Teheran, Iran. *Telephone:* 870088.

HELAISSI, Sheikh Abdulrahman Al-: Saudi Arabian diplomatist; b. 24 July 1922; ed. Univs. of Cairo and London and in Islamic Religious Law; Official at Ministry of Foreign Affairs; Secretary to Embassy London 1947-54; Under-Sec. Ministry of Agriculture 1954-57; Rep. to UN, and at conferences on Health, Agriculture, Wheat, Sugar and Locusts; Head of Del. to FAO 1955-61; Amb. to Sudan 1957-60; Del. to Conf. of Non-Aligned Nations, Belgrade 1961; Amb. to Italy and Austria 1961-66, to U.K. 1966-76, concurrently to Denmark 1966-70. *Publication:* The Rehabilitation of the Bedouins 1959. *Address:* c/o Ministry of Foreign Affairs, Jeddah, Saudi Arabia.

HELD, Martin; German actor; b. 11 Nov. 1908, Berlin; s. of Max and Emma Held; m. Lore Hartling; two s.; ed. schools in Berlin, Staatliche Schauspielschule, Berlin; Apprentice, Siemens 1929; acted in theatre at Tilsit, Elbing, Bremerhaven and Darmstadt 1931-41; Städtische Bühnen, Frankfurt-am-Main 1941-51; mem. Staatstheater, Berlin 1951-; many appearances in films and on television; mem. Acad. der Künste, Berlin; Preis der Deutschen Kritiker, 1952, Filmband in Gold 1955; Bundesverdienstkreuz (1st class); Staatsschauspieler. *Leisure interests:* general literary interests. *Address:* 1 Berlin 37, Albertinenstrasse 15-16; Agentur Mackeben, 1 Berlin 33, Douglasstrs. 2, Germany.

HELDERS, Gerardus Philippus, LL.D.; Netherlands civil servant and politician; b. 9 March 1905, Rotterdam; s. of Gerardus Philippus Helders and Jacoba Kleinbloesem; m. Pieternella Margaretha Meijer 1930; one s. four d.; ed. Leiden Univ.; employed in the former Netherlands East Indies, rising to grade of Finance Inspector 1930-40; at Ministry of Finance 1946-48; Dir. Nationale Trust Maatschappij, Amsterdam 1948-57; Minister for Overseas Affairs 1957-59; Counsellor of State 1959-75; Commdr. Order of Orange Nassau, Knight Order of the Netherlands Lion, War Cross and other decorations for service in the army (Gen. Staff) and Netherlands East Indies, Grand Cross Order of Homayoun (Iran). *Leisure interests:* music, literature and farming. *Address:* Theo Mann Bouwmeesterlaan, 610 The Hague, Netherlands. *Telephone:* 070-280635.

HELÉN, Nils Gunnar, PH.D.; Swedish politician; b. 5 June 1918, Vingåker; s. of Gustaf Helén and Ingeborg (née Andersson); m. Ingrid Rying 1938; one s. one d.; with Swedish Broadcasting Corpn. 1939-49; Literary Editor of Stockholms-Tidningen 1949-55; mem. Parl. 1953-66, 1970-76; mem. Nordic Council 1954-64, 1970-76; Asst. Prof. Univ. of Stockholm 1956-; Gov. of Province of Kronoberg 1965-70; Chair. Liberal Party of Sweden 1969-75; mem. Board of Govs. Swedish Nat. Debt Office 1974-77; Gov. of Stockholm 1977-78; Chair. Swedish Broadcasting Corpn. 1978-. *Publications:* Birger Sjöberg kriser och kransar i stilhistorisk belysning 1946, Röst i Radion 1950, Friheten och de tvd systemen 1954, Skola, yrke, samhälle i USA 1955, Den 9-åriga skolan 1957, 7 år av skolreformer 1957, Rätt till utbildning 1960, Den nya skolan 1961, Svenska författare 1964, Politik för ett mänskligare samhälle 1970, Frihetigemenskap 1974, Frôkenpåtagel 1977. *Address:* Tessic Palace, Slottsbacken 4, 11130 Stockholm, Sweden. *Telephone:* 08-7855000.

HÉLION, Jean; French painter; b. 21 April 1904, Couterne, Orne; m. Jacqueline Ventadour 1963; five s.; abstract painter until 1939; prisoner-of-war 1940-42 (escaped); figurative painter 1943-; first one-man exhbn. 1932, later in America and Europe; designed sets and costumes for King Lear, Television Production 1965; numerous group exhbns. and works in numerous museums; Retrospective exhbns.: Abstracts, Galerie Louis Carré, Paris 1962, General, Gallery of Modern Art, New York 1964, Drawings, Galerie Yvon Lambert, Paris 1964, General, Leicester Galleries, London 1937-66, Galerie du Dragon, Paris 1966, Galleria Il Fante di Spade, Rome 1968, Galleria Eunomia, Milan 1969, Galerie Verrières, Lyon 1969, Museum of Sables d'Olonne (Works 1958-68) 1970, Galeries Nationales, Grand Palais, Paris 1970, Maison de la Culture d'Amiens et St. Etienne 1970-71, Galerie St. Germain, Paris 1973, Galerie Flinker, Paris 1975, Spencer Samuel Gallery, New York 1976, Musée d'Art Moderne, Paris, Les Marchés and Galeries du Centre, Paris 1977. *Publication:* They Shall Not Have Me 1943. *Leisure interest:* mushroom hunting. *Address:* 4 rue Michelet 75006 Paris; and Bigeonnette, 28170 Chateau-neuf-en-Thymerais, France. *Telephone:* 033-49-41.

HELLER, John Roderick, B.S., M.D.; American medical research administrator; b. 27 Feb. 1905, S. Carolina; s. of John R. Heller Sr. and Elizabeth Smith Heller; m. Susie May Ayres 1934; three s.; ed. Clemson Coll. and Emory Univ.; Public Health Clinician and Admin. Georgia State Dept. of Health 1930-31; Venereal Disease Clinician, U.S. Public Health Service, Ark. 1931-32; V.D. Control Officer, Tenn. State Dept. of Health 1932-34; entered U.S. Public Health Service 1934, States Relations Admin. 1934-43, Chief Dir. of Venereal Diseases 1943-48; Dir. Nat. Cancer Inst. 1948-60; Professional Lecturer George Washington Univ. School of Medicine 1948-60; Asst. Surgeon Gen. U.S. Public Health Service 1957-60 (retd.); Pres. and Chief Exec. Officer Sloan-Kettering Cancer Center 1960-64; Clinical Prof. Preventive Medicine, Cornell Medical Coll., New York, 1962-65; Special Consultant on Int. Medical and Scientific Affairs, American Cancer Soc. Inc. 1964-66; Special Consultant, Nat. Cancer Inst., Bethesda, Md. 1965-; Hon. Life mem. Board of Dirs. American Cancer Soc.; Hon. Sc.D. (Clemson Coll.) 1958, Hon. LL.D. (Hahnemann Medical Coll.) 1960, M.D. h.c. (Perugia Univ.) 1961; Award of Merit (Int. Union against Cancer) 1970, Wien Cytology Award 1978. *Publications:* The Control of Venereal Disease (with Vonderlehr) 1946, and many papers. *Leisure interests:* home movies, travelling. *Address:* National Cancer Institute,

Bethesda, Maryland 20014; Home: 5604 McLean Drive, Bethesda, Md. 20014, U.S.A. *Telephone:* 301-496-6345 (Office); 301-656-2264 (Home).

HELLER, Dr. László; Hungarian mechanical engineer; b. 6 Aug. 1907, Nagyvárad; s. of Herman and Fanny (Weiss) Heller; m. Ilona Kun 1945; ed. Eidgenössische Technische Hochschule, Zürich, Switzerland; Eng. Consultant 1936-48; Chief Technician, Designing Inst. for Thermal Energy (now Inst. for Econ. of Energy), Budapest 1948-; Prof. Dept. of Energy, Budapest Tech. Univ. 1951-; mem. Hungarian Acad. of Sciences 1954-; mem. Nat. Council for Tech. Devt. 1962-; mem. Board Scientific Assen. for Econ. of Power; Pres. Hungarian Nat. Cttee., and mem. Conservation Comm., World Energy Conf.; Kossuth Prize 1951, Labour Order of Merit golden degree 1967, Banner Order of Hungarian People's Repub. 1978. *Publications:* contributions to numerous technical papers in Europe, America, Asia and Australia on the economic utilization of heat pumps, elaboration of new schemes for better thermal efficiency of atomic power plants, waste heat recovery, use of the gas turbine as an industrial heat and power generator; inventor of "Heller System" for Air Condensation. *Address:* Technical University, Müegyetem rakpart 3, Budapest (Office); Bimbó ut 45, 1022 Budapest, Hungary (Home). *Telephone:* 111-090 (Office); 350-781 (Home).

HELLER, Walter Wolfgang, A.B., M.A., PH.D.; American economist and government adviser; b. 27 Aug. 1915, Buffalo, N.Y.; s. of Ernst Heller and Gertrude Warmburg Heller; m. Emily Karen Johnson 1938; two s. one d.; ed. Oberlin Coll., Ohio, and Univ. of Wisconsin; Asst. Dir. of Tax Research, U.S. Treasury 1942-46; Assoc. Prof. of Econs., Univ. of Minn. 1946-50, Prof. 1950-60, 1964-67, Regents' Prof. 1967-75; Chair. of Econs. Dept. 1957-61, Chief Internal Finance, U.S. Mil. Govt., Germany 1947-48; mem. E.C.A. Mission on German Fiscal Problems 1951; Tax Adviser to Gov. of Minn. 1955-60; Consultant to Cttee. for Econ. Devt. 1948-49, 1954-57, to U.S. Census Bureau 1958-61, to UN (on fiscal problems of newly-developing countries) 1952-60, to Royal Comm. on Taxation, Jordan 1960; Chair. President's Council of Econ. Advisers 1961-64; Dir. Int. Multifoods Inc. 1965-, Nat. City Bank of Minneapolis 1964-, Nat. Bureau of Econ. Research 1960- (Chair. 1971-74), Northwestern Nat. Life Insurance Co. 1966-, Fed. Nat. Mortgage Assen. 1968-71, Commercial Credit Co. 1969-; mem. Oberlin Coll. Board of Trustees 1966-78; mem. Cttee. for Econ. Devt. Research Advisory Board 1965-; Consultant to Exec. Office of the Pres. 1965-69; Consultant, President's Council of Econ. Advisers 1974-; Consultant, Congressional Budget Office 1975-; Trustee, Coll. Retirement Equities Fund 1969-73; Chair. OECD Group of Fiscal Experts 1967-69; mem. American Econ. Assen., Vice-Pres. 1968, Pres. 1974; Distinguished Fellow, American Econ. Assen.; Fellow American Acad. of Arts and Sciences, American Philosophical Soc.; several hon. degrees. *Publications:* Taxes and Fiscal Policy in Underdeveloped Countries (co-author) 1954, State Income Tax Administration (co-author) 1959, New Dimensions of Political Economy 1966, Revenue Sharing and the City (co-author) 1968, Perspective on Economic Growth (editor) 1968, Monetary vs. Fiscal Policy (co-author) 1969, Economic Growth and Environmental Quality: Collision or Co-Existence? 1972, What's Right with Economics 1974, The Economy: Old Myths and New Realities 1976. *Leisure interests:* travel, wood-chopping, clam-digging. *Address:* 2203 Folwell Street, Saint Paul, Minn. 55108, U.S.A. (Home). *Telephone:* (612) 645-2258.

HELLESEN, Gunnar; Norwegian politician; b. 23 Feb. 1913, Haugesund; s. of late Captain Gunnar E. Hellesen and Gina Johannessen; m. Marit Landrog 1946; one s. two d.; ed. commercial education; entered insurance business before Second World War; prisoner-of-war 1940-45; mem. Haugesund City Council 1946, Council Presidency 1952; Mayor of Haugesund 1955, 1958-59; mem. Storting 1961-69, Chair. Finance Cttee. 1965-69; Gov. Province of Rogaland 1969-73; Minister of Defence 1970-71; Bank Man. 1974-; Chair. Board Norwegian Oil Directorate 1972-, Norwegian Industrial Fund 1973-; Conservative. *Address:* Nedstrandsgt. 8, 5500 Haugesund, Norway.

HELLIWELL, Robert A., PH.D., American professor of radio science; b. Red Wing, Minn.; s. of Harold Harlowe and Grace Robson Helliwell; m. Jean Perham 1942; three s. one d.; ed. Stanford Univ.; managed programme of ionospheric measurements and research aimed at improving wartime communications 1942; received Ph.D. for studies of low-frequency propagation 1948; continued to teach, Stanford Univ., Prof. 1958-, now Dir. Stanford programme of research on whistlers and related ionospheric phenomena, including a world wide network of receiving stations and experiments in the OGO-series satellites; mem. Nat. Acad. of Sciences, Fellow Inst. of Electrical and Electronic Engineers, American Geophysics Union; mem. various Comms. of U.S. Nat. Cttee. of Int. Scientific Radio Union (URSI); fmr. Chair. Int. Comm. IV of URSI; fmr. Consultant to Environmental Science Services Admin., Boulder Labs., Consultant to Dept. of Defense, Defense Science Board; mem. Improved IME Scientific Advisory Group, Nat. Aeronautics and Space Admin.; Chair. Panel on Upper Atmosphere Physics, Cttee. of Polar Research, Nat. Acad. Sciences 1970-73; Antarctica Service Medal, Nat. Acad. Sciences 1966, Appleton Prize, Royal Soc. of London 1972. *Publications:* 62 technical and scientific publs.; Whistlers and Related Ionospheric Phenomena (monograph) 1965. *Leisure interests:* hiking, camping, gardening, reading, music, fencing. *Address:* Radioscience Laboratory, Stanford University, Stanford, Calif. 94305, U.S.A.

HELLMAN, Lillian; American playwright; b. 20 June 1906, New Orleans, La.; d. of Max and Julia (Newhouse) Hellman; m. Arthur Kober 1925 (divorced 1931); ed. New York and Columbia Univs.; with Horace Liveright Inc., publishers 1924-25; theatrical play reader 1927-30; book reviewer New York Herald Tribune 1925-28; scenario writer 1935-; mem. Screen Writers Guild, Dramatists Guild, American Acad. of Arts and Letters; Fellow, American Acad. of Arts and Sciences; Gold Medal for Drama, Nat. Inst. and Acad. of Arts and Letters 1964. *Plays:* The Children's Hour 1934, Days to Come 1936, The Little Foxes 1939, Watch on the Rhine 1941, The Searching Wind 1944, Another Part of the Forest 1946, adaptation E. Roble's Montserrat 1949, The Autumn Garden 1952, adaptation of Anouilh's The Lark 1955, Toys in the Attic 1960; Candide, an operetta with Leonard Bernstein and Richard Wilbur 1956, My Mother, My Father and Me 1963; memoirs: An Unfinished Woman 1969, Pentimento 1973; film scenarios: The Dark Angel 1935, These Three 1935-36, Dead End 1937, The Little Foxes 1940, The North Star 1943, The Searching Wind 1945; historical: Scoundrel Time 1976. *Leisure interests:* boats, fishing. *Address:* 630 Park Avenue, New York, N.Y. 10021, U.S.A. (Home).

HELLWIG, Fritz, DR.PHIL.HABIL.; German economist and European politician; b. 3 Aug. 1912, Saarbrücken; s. of Friedrich H. and Albertine (Christmann) Hellwig; m. Dr. Margarete Werners 1939; two s. one d.; ed. Marburg, Vienna and Berlin Univs.; Staff mem. of the Saarbrücken Chamber of Industry and Commerce 1933-39; Dir. of the Saarwirtschaftsarchiv 1936-39; Man. of the District Organizations of the Iron and Steel Industry at Düsseldorf and Saarbrücken, 1940-43; war service 1943-47; Econ. Adviser and Dir. of Deutsches Industrieinstitut, Cologne 1951-59; Substitute del., Consultative Assembly of Council of Europe 1953-56; mem. of Bundestag 1953-59; Chair. of the Econ. Affairs Cttee. of the Bundestag 1956-59; mem. of European Parl. 1959; mem. of High Authority of the European Coal and Steel Community, Luxembourg 1959-67; Vice-Pres. of the Comm. of the European Communities, Brussels 1967-70; Exec. mem. Board of German Shipowners' Assen. 1971-73; Grosses Bundesverdienstkreuz mit Stern und Schulterband 1971. *Publications:* Westeuropas Montanwirtschaft, Kohle und Stahl beim Start der Montan-Union 1953, Saar zwischen Ost und West, Die wirtschaftliche Verflechtung 1954, 10 Jahre Schumanplan 1960, Gemeinsamer Markt und Nationale Wirtschaftspolitik 1961, Montanunion zwischen Bewährung und Belastung 1963, Politische Tragweite der europäischen Wirtschaftsintegration 1966, Das schöne Buch und der Computer 1970, Die Forschungs- und Technologiepolitik der Europäischen Gemeinschaften 1970, Verkehr und Gemeinschaftsrecht: Seeschiffahrt und Europäische Wirtschaftgemeinschaft 1971, Die Deutsche Seeschiffahrt: Strukturwandel und künftige Aussichten 1973, Zur älteren Kartographie der Saargegend 1977. *Leisure interests:* collecting old maps, views and illustrated books. *Address:* 5300 Bonn 2, Klosterbergstrasse 117C, Federal Republic of Germany. *Telephone:* (0 22 21) 32 20 17.

HELLYER, Hon. Paul Theodore, P.C., B.A.; Canadian fmr. politician; b. 6 Aug. 1923, Waterford, Ont.; s. of Audrey S. Hellyer and Lulla M. Anderson; m. Ellen Jean Ralph; two s. one d.; ed. Waterford High School, Curtiss Wright Tech. Inst., California, and Univ. of Toronto; Fleet Aircraft Manufacturing Co., Fort Erie 1942-44; Royal Canadian Air Force 1944-45; Owner, Mari-Jane Fashions, Toronto 1945-56; Treas. Curran Hall Ltd. 1950, Pres. 1951-62; Pres. Trepil Realty Ltd. 1951-62; Pres. Hendon Estates Ltd. 1959-62; mem. House of Commons 1949-57, 1958-74, Parl. Asst. to Minister of Nat. Defence 1956-57, Assoc. Minister April-June 1957, Minister of Nat. Defence 1963-67, of Transport 1967-69, responsible for Central Mortgage and Housing Corpn. 1968-69; Chair. Task Force on Housing and Urban Devt. 1968; Acting Prime Minister 1968-69; joined Progressive Conservative Party July 1972; Opposition spokesman on Industry, Trade and Commerce 1973; Distinguished visitor, Faculty of Environmental Studies, York Univ. 1969-70; Founding Chair. Action Canada 1971; Syndicated Columnist, Toronto Sun 1974-; mem. NATO Parliamentary Assen., Common-

wealth Parliamentary Assen.; Fellow Royal Soc. for Encouragement of the Arts. *Publication:* Agenda: A Plan for Action 1971. *Leisure interests:* swimming, skin and scuba diving, stamp collecting. *Address:* 1982 Rideau River Drive, Ottawa, Ontario, Canada. *Telephone:* 238-5286.

HELM, Harold Holmes, B.A., LL.D.; American banker; b. 9 Dec. 1900, Auburn, Ky; s. of T. O. Helm, M.D. and Nellie Blakey; m. Mary G. Rodes; one s. one d.; ed. Ogden Coll. and Princeton Univ.; Credit Dept., Chemical Bank New York Trust Co. (fmrly. Chemical Nat. Bank) 1920, Junior Officer 1926, Vice-Pres. 1929, Dir. 1941, First Vice-Pres. 1946, Pres. 1947-56, Chair. 1956-66, Chair. Exec. Cttee. 1966-72, Hon. Dir. 1972-; Chair. Fed. Hall Memorial Assocs.; Dir. Reader's Digest; Vice-Pres. Presbyterian Hosp., New York; Chair. Devt. Cttee., Columbia Presbyterian Medical Center; Emer. Trustee Princeton Univ. Hon. D.C.S. (New York), Hon. LL.D. (Center Coll., Bloomfield Coll., Hampden Sydney Coll.), Hon. D.C.L. (Univ. of the South and Columbia); Commdr. Order of St. Olav. *Address:* Chemical Bank, 277 Park Avenue, New York, N.Y., U.S.A. *Telephone:* 212-922-6338 (Office).

HELMS, Jesse; American senator; b. 18 Oct. 1921, Monroe, N.C.; s. of Mr. and Mrs. J. A. Helms; m. Dorothy Jane Coble 1942; one s. two d.; ed. Wingate Coll. and Wake Forest Coll. (now Wake Forest Univ. at Winston-Salem); served U.S. Navy 1942-45; subsequently became city editor, The Raleigh Times and Dir. of news and programmes for Tobacco Radio Network and Radio Station WRAL; Admin. Asst. to Senators Willis Smith and Alton Lennon; Exec. Dir. N.C. Bankers Assen. and editor, The Tarheel Banker 1953-60; editorial writer and presenter, WRAL-TV and Tobacco Radio Network 1960; Exec. Vice-Pres., Vice-Chair. of Board and Asst. Chief Exec. Officer, Capitol Broadcasting Co. (which operates WRAL-TV and Tobacco Radio Network); Senator from North Carolina 1973-; Republican. *Leisure interests:* reading, community service, fishing. *Address:* Dirksen Senate Office Building, Washington, D.C. 20510 (Office); 1513 Caswell Street, Raleigh, N.C. 27608, U.S.A. (Home). *Telephone:* (202) 224-6342 (Office).

HELMS, Richard M.; American government official and international consultant; b. 30 March 1913; ed. high schools in U.S.A., Switzerland and Germany, and Williams Coll.; worked for United Press and The Indianapolis Times 1935-42; joined U.S. Navy 1942, in Office of Strategic Service, Second World War; Central Intelligence Group 1946-47, Cen. Intelligence Agency 1947-73, Deputy Dir. for Plans 1962, Deputy Dir. 1965, Dir. 1966-73; Amb. to Iran 1973-76; int. consultant 1976-. *Address:* Safeer Co., Suite 402, 1627 K Street, Washington, D.C. 20006, U.S.A.

HÉLOU, Charles; Lebanese lawyer, journalist and politician; b. 1911; ed. St. Joseph (Jesuit) Univ. and Ecole Française de Droit, Beirut; Barrister, Court of Appeal and Cassation, Beirut 1936; founded newspaper L'Eclair du Nord, Aleppo, Syria 1932; founded Le Jour, Beirut 1934; Political Dir. Le Jour until 1947; Lebanese Minister to Vatican 1947; Minister of Justice and Health, Lebanon 1954-55, of Educ. Feb.-Sept. 1964; Pres. of Lebanon 1970; Pres. Association des Parlementaires de Langue Française 1973-; fmr. Sec.-Gen. Catholic Action of Lebanon. *Address:* Kaslik, Jounieh, Lebanon.

HELPMANN, Sir Robert Murray, Kt., C.B.E.; British dancer, actor and choreographer; b. 9 April 1909; ed. Prince Alfred's Coll., Adelaide; with Sadler's Wells Ballet Company 1933-50; danced in The Sleeping Princess, Les Sylphides, Giselle, Lac des Cygnes, Coppelia, Apparitions, Comus, Hamlet, Checkmate, Miracle in the Gorbals, Don Juan, Job, Prospect Before Us, The Rake's Progress, Le Spectre de la Rose, A Wedding Bouquet, Adam Zero, Carnival; Choreographer for: Hamlet, Comus, The Birds, Miracle in the Gorbals, Adam Zero, The Red Shoes (film) and Electra; acted in Old Vic and Stratford productions of Shakespeare's plays, and in The Insect Play, The White Devil, He who Gets Slapped, and The Millionairess; American Tour 1954, Australian Tours 1955, 1958, Australian and South American Tours 1961-62; Films: One of our Aircraft is Missing, Caravan, Henry V, The Red Shoes, Tales of Hoffman, Iron Petticoat, Big Money, 55 Days at Peking, Chitty Chitty Bang Bang, Alice in Wonderland, The Mango Tree, Patrick; Directed: Murder in the Cathedral (Old Vic) and Duel of Angels (U.S.A.), Don Quixote (with Nureyev); Produced operas: Butterfly, Coq d'Or (Covent Garden); plays: The Tempest, As You Like It, Antony and Cleopatra (Old Vic), Nekrassov (Edinburgh Festival 1957 and Royal Court), Nude with Violin (Globe) 1958, Marriage Go Round, Aladdin (London) 1959, Peter Pan (London) 1971; ballets: The Sleeping Beauty (Sydney) 1973, Perisynthyon (Sydney) 1974, The Merry Widow 1975; Co-artistic Dir. Australian Ballet 1965-74, Artistic Dir. 1975-; Artistic Dir. Adelaide Artistic Festival 1968-; Guest artist, Royal Ballet 1958; Guest artist, Sadler's Wells Royal Ballet 1977; Knight, Northern Star (Sweden), Order of the Cedar (Lebanon); Queen Elizabeth II Coronation Award, Royal Acad. of Dancing 1960; Australian of the Year 1965. *Address:* c/o The Royal Ballet, Covent Garden, London, W.C.2; 72 Eaton Square, London, S.W.1, England (Home). *Telephone:* 01-235 2235 (Home).

HELTZER, Harry, MET.ENG.; American business executive; b. 22 Aug. 1911, Cincinnati, Ohio; s. of Edward and Ann Heltzer; one s. one d.; ed. Univ. of Minnesota; Production Man. Chemolite Plant, Minnesota Mining and Manufacturing Co. 1948-52, Gen. Man. Reflective Products Div. 1952-59, Div. Vice-Pres. 1959-61, Corporate Vice-Pres. 1961-63, Group Vice-Pres. 1963-66, mem. Board of Dirs. 1965-75, Chair. of Board and Chief Exec. Officer 1970-; Senior Adviser to Exec. Cttee. 1975-; Dir. Int. Road Fed. 1965-, Chair. 1971-73; mem. Nat. Highway Safety Advisory Cttee. 1967-70; Chair. Highway Users Fed. for Safety and Mobility 1970; Dir. Chamber of Commerce of U.S. 1971-73; Trustee, U.S. Council of Int. Chamber of Commerce 1971-; Gold Medal of Merit, Veterans of Foreign Wars 1965, Outstanding Achievement Award, Univ. of Minn. 1966, President's Award for Excellence, American Assen. of Motor Vehicle Administrators 1972, Golden Plate Award, American Acad. of Achievement 1974. *Address:* Minnesota Mining and Manufacturing Company, 3M Center, St. Paul, Minn. 55101, U.S.A.

HENCKEN, Hugh O'Neill, PH.D., D.LITT., SC.D.; American archaeologist; b. 8 Jan. 1902, New York; s. of Albert Charles Hencken and Mary Creighton O'Neill; m. Mary Thalassa Alford Cruso 1935; three d.; ed. Princeton Univ., Cambridge Univ.; Assoc., Peabody Museum, Harvard Univ. 1930-31, Asst. Curator European Archaeology 1931-32, Curator 1932-72; Asst. Dir. American School of Prehistoric Research 1940-45, Dir. 1945-72, Chair. 1960-72; Lecturer London and Oxford 1947, Edinburgh 1959; excavations in England 1928, 1930, 1931; Dir. Harvard excavations in Ireland 1932-36; Dir. American School of Prehistoric Research excavations Morocco 1947, Algeria 1949; mem. Hon. Cttee., Int. Council of Prehistoric and Protohistoric Sciences 1948-; Hon. D.Litt. (Nat. Univ. of Ireland); Pres. Archaeological Inst. of America 1949-51; Fellow American Acad. of Arts and Sciences, Royal Irish Acad.; Corresp. Fellow British Acad.; Hon. Fellow St. John's Coll. Cambridge 1968. *Publications:* Archaeology of Cornwall 1932, Ballinderry Crannog (No. 1) 1936, Cahercommaun 1938, Lagore Crannog 1950, Indo-European Languages and Archaeology 1955, Tarquinia, Villanovans and Early Etruscans 1968, Tarquinia and Etruscan Origins 1968, The Earliest European Helmets, The Iron Age Cemetery of Magdalenska gora 1978. *Leisure interest:* travel. *Address:* Peabody Museum, Harvard University, Cambridge, Mass., U.S.A. *Telephone:* 495-2517.

HENDERSON, Douglas; American diplomatist; b. 15 Oct. 1914; ed. Boston Univ. and Fletcher School of Law and Diplomacy; Instructor, Tufts Coll. 1941-42; Diplomatic Service 1942-, Vice-Consul, Nogales 1942, Arica 1943, Cochabamba 1943; Dept. of Commerce 1947; Consul 1950; Second Sec. and Consul, Berne 1950, First Sec. and Consul 1954; Asst. Chief, Econ. Defence Div. 1956; Counsellor, Econ. Affairs, Lima 1960, Counsellor, Lima 1961; Amb. to Bolivia 1963-68; Consultant, Policy Planning Council, Dept. of State 1968-69; Deputy Rep. U.S. Mission to OAS 1969; U.S. Rep. Inter-American Cttee. on Alliance for Progress 1969-74. *Address:* c/o Department of State, Washington, D.C. 20520, U.S.A.

HENDERSON, Rt. Rev. Edward Barry, D.D., D.S.C.; British ecclesiastic; b. 22 March 1910; ed. Radley, and Trinity Coll., Cambridge; ordained 1934; Curate St. Gabriel's Pimlico 1934-36; Priest, All Saints, Pimlico 1939-39; Rector, Holy Trinity, Ayr 1939-47; Chaplain R.N.V.R. 1943-44; Vicar, St. Paul's, Knightsbridge 1947-55; Rural Dean of Westminster 1953-55; Bishop Suffragan of Tewkesbury 1955-60; Bishop of Bath and Wells 1960-75; sub-Prelate of the Order of St. John of Jerusalem 1962; Hon. Freeman of Wells; Hon. D.Litt. (Bath) 1975. *Address:* Hill Cottage, Ryme Intrinseca, Nr. Sherbourne, Dorset, England. *Telephone:* 093-587-894.

HENDERSON, Horace Edward; American public official; b. 30 July 1917 Henderson, N.C.; s. of Thomas Brantley Henderson M.D. and Ethel Maude Duke; m. Vera Schubert 1966; two d.; ed. Coll. of William and Mary, Williamsburg, Virginia and Yale Univ.; Army Capt., Second World War; Owner, Henderson Real Estate, Williamsburg, Va. 1947-52; Vice-Pres. Junior Chamber Int. 1951-52; Nat. Pres. U.S. Junior Chamber of Commerce 1952-53; Asscns. Co-ordinator, Nat. Auto Dealers Assen., Wash. 1954-55; Dir. Chamber of Commerce of the U.S.A. 1954; Exec. Cttee. U.S. Cttee. for the UN 1954; Trustee, Freedoms Foundation 1955; Vice-Chair. Operation Brotherhood 1954-56; Dir. Office of Special Liaison and Special Asst., Deputy Under-Sec. of State 1958; U.S. Del. to ILO 1959-60, WHO 1959-60, UNESCO 1960, FAO 1959, High Comm.

for Refugees 1959, ECOSOC 1959, U.S. Del. to UN 1960; Deputy Asst. Sec. of State, Dept. of State, Washington, D.C. 1959-60; Chair. Republican Party of Virginia 1962-64; mem. Republican Nat. Cttee. 1962-64; Chair. of Board, Henderson Real Estate Agency McLean, Va. 1965-; Dir.-Gen. World Peace Through Law Center, Geneva 1965-69; Pres. and Chair. Community Methods Inc. 1969-75; Chair. Conv. for Peaceful Settlement of Int. Disputes 1974-75; Pres. Int. Domestic Devt. Corps 1975, Assen. for Devt. of Educ. 1977-; Exec. Dir. World Assen. of Judges 1968; Chair. Congressional Speaker Reform Cttee. 1976; Exec. Vice-Pres. American Lawmakers Assen. 1977; Real Estate and Man. Consultant 1978. *Address:* 1136 York Lane, Virginia Beach, Va. 23451, U.S.A. (Home). *Telephone:* (804) 428-0518 (Home).

HENDERSON, Sir John Nicholas, G.C.M.G., M.A.; British diplomatist; b. 1 April 1919, London; s. of Prof. Sir Hubert Henderson; m. Mary Barber 1951; one d.; ed. Stowe School and Hertford Coll., Oxford; Asst. Private Sec. to British Foreign Sec. 1944-47; served in British Embassies in Washington, Athens, Vienna, Santiago; Principal Sec. to Foreign Sec. 1963-65; Minister, Madrid 1965-69; Amb. to Poland 1969-72, to Fed. Germany 1972-75, to France 1975-79, to U.S.A. May 1979-; Hon. Fellow, Oxford Univ. *Publications:* Prince Eugen (biography); various articles and stories in Horizon, New Writing, History Today. *Leisure interests:* tennis, gardening, dogs. *Address:* British Embassy, 3100 Massachusetts Avenue, Washington, D.C. 20008, U.S.A.; School House, Combe, Newbury, Berks.; and 31 Dorset Square, London, N.W.1, England.

HENDERSON, Julia, M.A., PH.D.; American international official; b. 15 Aug. 1915, Du Quoin, Ill.; d. of Frank and Agnes Youngber Henderson; ed. Univs. of Illinois and Minnesota, and Littauer School of Public Admin., Harvard Univ.; Research Asst., Social Science Research Council; Tech. Adviser to Unemployment Compensation Div., Social Security Board; Lecturer in political science, Wellesley Coll.; worked in London with Preparatory Comm. of UN 1945-46; Chief, Policy Div., UN Bureau of Finance 1945-50; Dir. UN Div. of Social Welfare, Dept. of Econ. and Social Affairs 1950-54, Dir. Bureau of Social Affairs 1955-67; Assoc. Commr. and Dir. of Tech. Co-operation Operations for UN 1967-70; Sec.-Gen. Int. Planned Parenthood Fed. (IPPF) 1971-78; UN consultant on population questions 1978-79; mem. Council on Foreign Relations, U.S. Nat. Acad. of Public Admin; mem. Comm. of the Churches on Int. Affairs, WCC; one of the founders of UN International School, New York 1947, Chair. of Board of Trustees 1954-71; Phi Beta Kappa Award, Rene Sand Award of the Int. Council of Social Welfare 1962, Margaret Singer Award (Planned Parenthood Fed. of America); Hon. LL.D. (Smith Coll.), Hon. D.Hum.Litt. (Rider Coll.), Hon. D.H. (Silliman Univ., Philippines). *Leisure interests:* theatre, ballet, reading, golf, gardening. *Address:* P.O. Box 247, Warwick, N.Y. 10990; and 1735 Forest Road, Venice, Florida 33595, U.S.A. *Telephone:* (914) 986-6718; (813) 488-3935.

HENDERSON, Loy Wesley, B.A.; American diplomatist; b. 28 June 1892, Rogers, Ark.; s. of Rev. George Milton Henderson and Mary May Davis; m. Elise Maria Heinrichson 1930; ed. Northwestern Univ., and Denver Univ. Law School; mem. Inter-Allied Comm. to Germany for repatriation of prisoners of war 1919; mem. American Red Cross Comm. to W. Russia and Baltic States 1919-20, in charge A.R.C., Germany 1920-21, Vice-Consul, Dublin 1922, Queenstown 1923; Dept. of State 1925; Third Sec. Riga, Kovno and Tallin 1927; Second Sec. 1929; Dept. of State 1930; Moscow 1934, First Sec. and intermittently Chargé d'affairs 1935-38; Asst. Chief Div. of European Affairs, Dept. of State 1938; Inspector of Diplomatic Missions and Consular Offices 1942-43; Counsellor and Chargé d'affaires U.S.S.R. 1942; Minister to Iraq 1943-45; Dir. Near-Eastern, South Asian and African Affairs, Dept. of State 1945-48; Amb. to India, also Minister to Nepal 1948-51; Amb. to Iran 1951-55; Deputy Under-Sec. of State for Admin. 1955-61; Career Amb. 1956; U.S. Observer Baghdad Pact Confs. 1956, 1957, 1959; Gov. American Red Cross 1959-61; Prof. of Int. Relations and Dir. Center of Diplomacy and Foreign Policy, The American Univ. 1961-68; Pres. Washington Inst. of Foreign Affairs 1961-73, Chair. of Board 1973-; Dept. of State Distinguished Service Award 1954, Pres. Award for Distinguished Federal Civilian Service 1958; Hon. LL.D. (Northwestern, Bates Coll., Univ. of Ark., Wade Univ.). *Address:* 2727 29th Street, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* (202) 462-4932.

HENDERSON, Sir Nicholas (*see* Henderson, Sir John Nicholas).

HENDRICKS, Sterling Brown, B.S., M.S., PH.D.; American physical and biological scientist; b. 13 April 1902, Texas; s. of James G. Hendricks and Martha Daisy Hendricks; m. Edith Ochiltree 1932; one d.; ed. Univ. of Arkansas, Kansas State Univ. and Calif. Inst. of Technology; U.S. Dept. of Agriculture, basic research in chem., physics, mineralogy, soil science, plant nutrition, biophysics, control of flowering 1928-70; Chief Scientist, Mineral Nutrition Lab., U.S. Dept. of Agriculture 1958-70; Hon. LL.D. (Arkansas) 1946, Hon. Sc.D. (N. Carolina) 1962; Hillebrand Award, American Chemical Soc. 1937, Day Medal, Geological Soc. of American 1952, President's Civilian Service Award 1960, Rockefeller Public Service Award 1960, Hales Award American Soc. of Plant Physiologists 1962, Hoblitzelle Agricultural Award 1964, Certificate of Merit, Botanical Soc. of American 1965, Finson Gold Medal, Int. Assen. de Photobiologie 1976, Nat. Medal of Science 1976. *Leisure interest:* Mountaineering. *Address:* Plant Industry Station, Beltsville, Md. (Office); 118 Dale Drive, Silver Spring, Md., U.S.A. (Home).

HENDY, Sir Philip, M.A.; British art historian; b. 27 Sept. 1900; ed. Westminster School and Christ Church, Oxford; Asst. to the Keeper and Lecturer, Wallace Collection, London 1923-27; studied Italian painting, Italy 1927-30; Curator of Paintings Museum of Fine Arts, Boston, Mass., U.S.A. 1930-33; Dir. City Art Gallery Leeds and Temple Newsam 1934-45; Slade Prof. of Fine Art Oxford Univ. 1936-46; Dir. Nat. Gallery 1946-67; Artistic Adviser to Israel Museum, Jerusalem 1968-71; Pres. Int. Council of Museums 1959-65; art critic Daily Herald 1923-26, New Statesman 1926-27, London Mercury 1934-36, Britain Today 1945-52. *Publications:* Hours in the Wallace Collection 1926, Wallace Collection: Catalogue of Paintings and Drawings 1928, Isabella Stewart Gardner Museum (Boston) Catalogue of Paintings and Drawings 1931 (revised edn. 1974), Matthew Smith 1944, Giovanni Bellini 1945, Spanish Painting 1946, The National Gallery 1955, Masaccio 1957, Piero della Francesca and the Early Renaissance 1968. *Address:* Whistlers Barn, Great Haseley, Oxford, England.

HENKEL, Konrad, DR.ING.; German chemist and business executive; b. 20 Oct. 1915, Düsseldorf; s. of Dr. Hugo and Gerda Henkel née Janssen; m. Gabriele Hünermann 1955; ed. Technische Hochschule, Munich and Brunswick and Freiburg Univs.; Asst. to Prof. Dr. Richard Kuhn, Max-Planck Inst. for Medical Research, Heidelberg 1940-46; Man. Dir. Henkel and Cie. GmbH, Düsseldorf 1956-69, Chair. Supervisory Board 1961-; Chair. Board of Management Henkel GmbH 1961-74, Vice-Chair. Supervisory Board 1961-74; Pres. and Chief Exec. Officer of Man. Board Henkel KGaA 1975-, Vice-Chair. Cttee. of Shareholders 1975-; Vice-Chair. Supervisory Board Deutsche Gold- und Silberscheideanstalt, Frankfurt; Pres. Industry Club e.V., Düsseldorf, Steuben-Schurz Assen. in Düsseldorf e.V. 1972; mem. Board Assen. of Chem. Industries in Germany 1976-; mem. Admin. Council of Cultural Cttee. of Fed. Assen. of German Industry 1961-; Dr.rer.nat. h.c. (Düsseldorf). *Leisure interest:* golf. *Address:* Grunerstrasse 133, Düsseldorf 4, Federal Republic of Germany.

HENLE, Günter, DR.JUR.; German businessman; b. 3 Feb. 1899, Würzburg; s. of Dr. Julius von Henle and Lida Albert; m. Anne-Liese Küpper 1933; two s. one d.; ed. Würzburg and Marburg Univs.; Diplomatic service 1921-36; Partner Klöckner & Co., Duisburg 1937-, Gen. Man. 1937-76; Hon. Chair. Board of Dirs. Klöckner-Werke AG, Klöckner-Humboldt-Deutz AG, Allianz Versicherungs AG; founder and owner G. Henle Musikverlag; Pres. German Soc. of Foreign Policy 1955-73, Hon. Pres. 1973-; mem. Frankfurt Econ. Council 1947-49; mem. Bundestag 1949-53; mem. ECSC Common Assembly 1952-53; Hon. Dr. phil. (Cologne) 1964. *Publications:* Weggenosse des Jahrhunderts 1967, Three Spheres (American edn.) 1971. *Leisure interests:* music, collecting old Dutch Masters, golf. *Address:* Klöcknerhaus, 41 Duisburg, Federal Republic of Germany. *Telephone:* 181.

HENLE, Jörg Alexander; German business executive; b. 12 May 1934, Aachen; s. of Dr. Günter (*q.v.*) and Anne-Liese Henle; m. Eduarda Linares Reyes de Velasco 1963; two s. three d.; ed. Cologne, Munich, Princeton (N.J.), Stanford, Geneva and Berlin Univs.; joined Klöckner-Werke AG 1962; Man. Establecimientos Klöckner S.A., Buenos Aires 1964-65; Deputy mem. directorate of Klöckner Mannstaedt-Werke, Troisdorf 1965-67; mem. directorate, Klöckner-Werke AG, Hütte Bremen 1967-68; mem. Man. Board Klöckner-Werke AG 1968-71; Chair. and Man. Partner Klöckner & Co. 1971-; mem. Board of Dirs. Deutsche Bank AG, Klöckner-Werke AG, SKF Kugellagerfabriken GmbH, Rheinisch-Westfälische Boden-Credit-Bank; Vice-Chair. Board of Dirs. I.V.E.C.O. Industrial Vehicles Corp. B.V., Amsterdam. *Leisure interests:* plastic arts, theatre, music. *Address:* Klöckner & Co., Neudorfer Strasse 3-5, Postfach 10 01 05, 4100 Duisburg 1, Federal Republic of Germany. *Telephone:* 181.

HENLEY, Sir Douglas Owen, K.C.B.; British civil servant; b. 5 April 1919; ed. London School of Econs.; joined H.M. Treasury 1946; Financial Counsellor, Tokyo and Singapore 1956-59; Asst.

Under-Sec. of State, Dept. of Econ. Affairs 1964-69, Deputy Under-Sec. of State 1969; Deputy Sec. H.M. Treasury 1969-72, Second Perm. Sec. 1972-76; Comptroller and Auditor-Gen. Feb. 1976-. *Address:* Exchequer and Audit Department, Audit House, Victoria Embankment, London, EC4Y 0DS, England.

HENLEY, William Ballentine, A.M., J.D., M.S. (P.A.), LL.D., SC.D., L.H.D.; American lecturer, cattle rancher, educationist and lawyer; b. 19 Sept. 1905, Cincinnati, Ohio; s. of W. H. Ballentine and May Ballentine (née Richards); m. Helen McTaggart 1942; ed. Univ. of Southern California and Yale Univ.; Attorney; Asst. to Co-ordination Officer, Univ. of Southern Calif. 1928-29 and 1930-33; Public Speaking Instructor, American Inst. of Banking 1928-29; Dir. of Religious Education, First Methodist Episcopal Church, New Haven, Conn. 1929-30; Exec. Sec. Women's Civic Conf. Univ. of Southern Calif. 1930-36; Asst. to Dean, School of Govt., Univ. of Southern Calif. 1933-35, Acting Dean and Acting Co-ordinating Officer 1935-37, Dir. Inst. of Govt. 1935-37, Dir. of Co-ordination and Assoc. Prof. of Public Admin. 1937-40; Pres. Calif. Coll. of Medicine 1940-65; Provost, Univ. of Calif., Irvine, Calif. Coll. of Medicine 1965-; Pres. United Church of Religious Science 1976-77; Pres. Rotary Club Los Angeles 1955-56; Gov. District 528 Rotary Int. 1959-60; Chair. Host Club Exec. Cttee. for Rotary Int. Convention 1962; mem. Los Angeles, Calif. and American Bar Assens., Assen. of American Medical Schools, Acad. of Political and Social Sciences, Nat. Education Assen.; Calif. Governor's Medical Advisory Cttee. on Civil Defense 1945-48, American Management Assen., American Assen. for History of Medicine, Western Interstate Comm. for Higher Education; Past Pres. American Assen. Osteopathic Colls.; Educational Consultant 1956-; owner, Creston Circle Ranch; Gen. Motors Exec. Speakers Panel 1956-73; on Board of Los Angeles Community Health Org. and of several charitable orgs.; mem. Defense Orientation Conf. Assen. 1965-; Vice-Pres. Los Angeles Safety Council. *Publications:* The History of the University of Southern California, Man's Great Awakening (Beautiful Mud) 1974-, and many magazine articles. *Leisure interests:* photography, tree culture. *Address:* Creston Circle Ranch, Paso Robles, Calif.; and 1224 Geneva Street, Glendale, Calif. 91207, U.S.A. *Telephone:* (213) 388-2181; (213) 245-4406.

HENNEBERG, Gerd Michael; German theatre director; b. 14 July 1922, Magdeburg; ed. Acad. of Dramatic Art, Leipzig; Actor, Civic Theatre, Aschaffenburg 1940-44, Producer 1943-44; Artistic Dir. Civic Theatres Ballenstadt/Harz 1945; Asst. Producer Deutsches Theater, Berlin 1946; Producer and Actor, Nat. Theatre, Weimar 1947-50; scenario editor for D.E.F.A. films 1950-; Actor, Berlin 1953-60; Dir. of Friedrich-Wolf Theatre, Neustrelitz 1960-62, 1966-69; Gen. Dir. Staatstheater Dresden 1962-66. *Address:* Staatstheater Dresden, Julien-Grimau Allee 27 Dresden A. 1, German Democratic Republic.

HENNESSY, James Patrick Ivan, C.M.G., O.B.E.; British diplomatist; b. 23 Sept. 1923; s. of late Richard George Hennessy; m. Patricia Margaret Unwin 1947; one s. (deceased) five d.; ed. Bedford School, Sidney Sussex Coll., Cambridge, London School of Econs.; H.M. Forces, Royal Artillery, Maj. 1942-46; H.M. Overseas Service, Basutoland; District Officer 1948, Judicial Commr. 1953, District Commr. 1954, Sec. of Constitutional Cttee. 1957-59, Sec. to Exec. Council 1960; High Commr's. Office, Cape Town and Pretoria 1961-63; mem. Basutoland Legis Council 1964; Perm. Sec. for External Affairs, Internal Security and Defence and Perm. Sec. to Prime Minister of Lesotho 1967, retd. 1968; First Sec. U.K. Foreign Office 1968; Embassy in Uruguay 1970, Chargé d'affaires 1971-72; High Commr. in Uganda and Amb. to Rwanda 1973-76; Consul-General, Cape Town 1977-. *Address:* Foreign and Commonwealth Office, London, S.W.1, England. *Telephone:* 01-930 8440 (London).

HENNESSY, Sir Patrick, Kt.; former British motor executive; b. 18 April 1898; Royal Inniskilling Fusiliers 1914-18; fmr. mem. Advisory Council, Ministry of Aircraft Production; Chair. and Chief Exec. Ford Motor Co. Ltd. 1956-68; Chair. Henry Ford and Sons Ltd., Cork, Ireland 1955-78, Pres., then Deputy Pres. Soc. of Motor Manufacturers and Traders. 1965-68. *Address:* Larkmead, Theydon Bois, Essex, England.

HENNIKER-MAJOR, Hon. Sir John Patrick Edward Chandos, K.C.M.G., C.V.O., M.C.; British diplomatist; b. 19 Feb. 1916; s. of Lord Henniker and Mrs. J. Henniker-Major; m. 1st Margaret Osla 1946 (died 1974), 2nd Julia Marshall Poland 1976; two s. one d.; three step-d.; ed. Stowe and Trinity Coll., Cambridge; entered Foreign Service 1938; Army Service 1940-45; at Embassy, Belgrade, 1945-46; Asst. Private Sec. to Sec. of State for Foreign Affairs 1946-48; Foreign Office 1948-50; at Embassy, Buenos Aires 1950-52; Counsellor, Foreign Office, Head of Personnel Dept. 1952-60; Amb. to Jordan 1960-62, to Denmark 1962-66; Civil Service Comm. 1966-67; Asst. Under-Sec. for African Affairs at Foreign Office 1967-68; Dir.-Gen. of the British Council 1968-72; Dir. Wates Foundation 1972-; Trustee, City Parochial Foundation 1973; Gov. London Festival Ballet 1975. *Address:* Red House, Thornham Magna, Eye, Suffolk, IP23 8BX, and 7c Broomfield Road, Kew, Richmond, Surrey, England. *Telephone:* 037-983-288 (Suffolk); 01-948 2664 (Surrey).

HENNING, Admiral of the Fleet Geraldo de Azevedo; Brazilian naval officer; b. 1917, Rio de Janeiro; joined Brazilian Navy 1934; Lieut.-Commdr., World War II; fmr. Dir.-Gen. Navy Personnel; Admiral of the Fleet 1973; Minister of the Navy 1974-78. *Address:* c/o Ministério da Marinha, Esplanada dos Ministérios, Bloco 3, Brasília, D.F. Brazil.

HENNINGSEN, Eigil Juel, M.D.; Danish physician; b. 18 July 1906, Copenhagen; s. of Adolf Juel Henningsen and Helga Amalie Christensen; m. Kirsten Ottesen 1959; one s. two d.; ed. Københavns Universitet; State Epidemiologist, State Serum Inst. 1935-40; Deputy Dir.-Gen. Nat. Health Service of Denmark 1940-; temporary Dir.-Gen. Danish Red Cross 1945; Chair. The Mothers Aid Inst. 1945-; Chair. WHO Expert Cttee. on Radiation 1962; Gen. Chair. Vth Int. Poliomyelitis Conf., Copenhagen 1960; Chair. European Nuclear Engery Agency (ENEA) Health and Safety Cttee. 1966; Chair. Nordic Soc. for Radiation Protection; mem. other int. medical cttees. *Leisure interests:* music, literature. *Address:* Kastelsvej 10, Copenhagen, Denmark.

HENNINGSEN, Sven, DR. PHIL.; Danish historian; b. 2 Feb. 1910, Stubbekøbing; s. of Andreas and Christine (Jorgensen) Henningsen; m. Eugenie Henningsen 1964; ed. Københavns Universitet; Lecturer in Modern History and Political Science, Univ. of Copenhagen 1943; Asst. Prof. Univ. of Gothenburg, Sweden 1944-45; Visiting Prof. Univ. of Minn., U.S.A. 1948-49; Prof. of Contemporary History and Political Science, Univ. of Copenhagen 1953-, Vice-Chancellor 1967-69; Visiting Rockefeller Prof., Univ. of E. Africa 1962; Chair. Danish Council for UN 1959-65; mem. Council for European Assen. of American Studies; Chair. Nordic Assen. for Study of Int. Relations 1967-70, Council for Danish Nat. UNESCO Cttee. 1961-69; Chair. Danish Political Science Assen. 1966-69; mem. Council for Danish Inst. of Foreign Policy, Chair. 1967-78. *Publications:* The Polish Corridor and Danzig 1936, The Far East and the Great Powers 1941, Studies in Economic Liberalism 1944, the North Atlantic Treaty 1954, The Foreign Policy of Denmark 1962, The Twentieth Century 1965, Atomic Policy 1939-1945 1971, International Politics 1975. *Leisure interest:* music. *Address:* Dantes Plads 4, Copenhagen V, Denmark. *Telephone:* 126507.

HENRIKSEN, Rein; Norwegian business exec.; b. 17 Dec. 1915; ed. Universitetet i Oslo; Barrister of Supreme Court of Norway; Nat. Income Tax Comm. 1943-45; Norwegian Shipowners' Assen. 1945-47; Legal Dept. Aktieselskapet Borregaard (pulp for paper, oils, detergents, etc.) 1947-60, Gen. Dir. 1960-; Knight of St. Olav, Grand Cross (Austria), Order of Homayoun (Iran). *Address:* Borregaard Hovedgård, Sarpsborg, Norway.

HENRION, Robert; Belgian banker and university professor; b. 23 July 1915, Namur; m. Marie-Louise Ernst 1939; four c.; Barrister, Brussels 1938-46, Prof. of Political Economy and Financial Affairs, Univ. Libre de Bruxelles; Minister of Finance 1966-68, of State 1977; mem. Conseil Supérieur des Finances, Société Générale de Banque, Chair. Exec. Cttee. 1969-76. *Publications:* La structure juridique de l'entreprise et le rôle de son personnel 1957, Financiers et banquiers 1959, Aspects juridiques et économiques du Credit à court terme 1959 and 1965, L'abus de puissance économique 1960, L'entreprise et le progrès social 1963, Le secret professionel du banquier 1963, Certains aspects récents de droit économique en Belgique 1968, L'expérience des lois de pouvoirs exceptionnels 1968. *Address:* c/o Société Générale de Banque, 3 Montagne du Parc, 1000 Brussels, Belgium.

HENRY, David Dodds, A.M., PH.D.; American educationist; b. 21 Oct. 1905, E. McKeesport, Pa.; s. of F. W. Henry and Myrtle Byerly Henry; m. Sara Koerper 1927; one s.; ed. Pennsylvania State Univ.; Instructor, Pa. State Univ. 1925-29; Prof. of English and Dir. of School of Liberal Arts, Battle Creek (Mich. Coll.) 1929-33; Asst. State Supt. of Public Instruction Lansing (Mich.) 1933-35; Prof. of English 1935-52; Asst. to Exec. Vice-Pres. Wayne State Univ., Detroit 1936-39; Exec. Vice-Pres. 1939-45, Pres. 1945-52; Exec. Vice-Chancellor, N.Y. Univ. 1952-55; Pres. Univ. of Ill. 1955-71; Pres. Assoc. Urban Univs. 1945-46, Nat. Comm. on Accrediting 1956-58; Chair. Joint Cttee. on Educational T.V. 1954-55; Vice-Chair. Cttee. on Education Beyond High School 1956-57; Pres. Nat. Assen. State Univs. and Land-Grant Colls. 1964-65; Dir. Council for Financial Aid to Education 1958-63; Chair. American Council on Education 1960-61; mem. Pres. Cttee. on Employment of Phys-

ically Handicapped 1956-71, Advisory Cttee., Agency for Int. Devt.-Univ. Relations 1965-66, 1967-69, Advisory Council Nat. Fund for Medical Educ. 1959-71; Trustee, Carnegie Foundation for the Advancement of Teaching 1960-71, Cttee. on Educational Television, Carnegie Corpn. 1965-67, Inst. Int. Educ. 1965-68, Carnegie Comm. on Future Structure and Financing of Higher Educ. 1967-73; Pres. Assen. of American Univs. 1967-69; Distinguished Prof. of Higher Educ. 1971-74; Chair. Nat. Board on Graduate Educ. 1972-75; numerous hon. degrees. *Publications:* numerous articles in professional journals; Challenges Past, Challenges Present 1976. *Address:* College of Education, University of Illinois, Urbana, Ill. 61801, U.S.A. *Telephone:* 333-2156.

HENRY, William Robert; British business executive; b. 30 April 1915, Glasgow; s. of William Henry and Sarah Lindsay; m. Esther Macfadyen 1947; two s. one d.; ed. Govan High School, Univ. of London; with J. & P. Coats Ltd. (later Coats Patons Ltd.) 1934-; Head of Financial Div. 1955-57, Asst. Accountant 1957-63, Dir. J. & P. Coats Ltd. 1963-66, Coats Patons Ltd. 1966-, Deputy Chair. 1970-75, Chair. Oct. 1975-; Dir. Scottish Amicable Life Assurance Soc. 1977-. *Leisure interest:* gardening. *Address:* 2/9 Barcapel Avenue, Newton Mearns, Glasgow, G77 5NL; and Hawkstone Lodge, Ascog, Rothesay, Bute, Scotland. *Telephone:* 041-639 7290; 0700-2729.

HENSEL, Witold, PH.D., SC.D.; Polish archaeologist; b. 29 March 1917, Poznań; s. of Maksymilian Hensel and Maria Formanowicz; m. Maria Chmielewska 1941; three s. one d.; ed. Poznań Univ.; Lecturer and Adjunct, Lublin Univ. 1944-45, Poznań Univ. 1946-50, Prof. 1951-56, Dean History Faculty 1951-53; Prof. Warsaw Univ. 1954-; Dir. Polish Acad. of Sciences Inst. for History of Material Culture 1954-; Editor and Founder Slavia Antiqua 1947-; Editor Światowit 1965-; has led excavations at Gniezno, Kłecko, Ostrów Tumski of Poznań and Kruszwica (near Inowrocław), Czersk (near Warsaw), Poland, Styrmen and Odercy, Bulgaria, Debrešte (near Prilep), Yugoslavia, and in St.-Jean-Le-Froid Condorcet and Montaigut, France, Cappacio Vecchia, Italy and Algiers and Tlemcen, Algeria; mem. Council Int. Congress of Prehistoric Sciences 1956 and Instituto Italiano di Preistoria e Protostoria 1961; Pres. Int. Cttee. of Research for Origin of Towns 1962, Int. Congress Slavonic Archaeology 1965-67; Vice-Pres. Int. Congress of Slavists 1971-; Corresp. mem. Polish Acad. Sciences 1965, mem. 1973-, Chair. Cttee. for Slavistic Studies; Foreign mem. Acad. of Sciences of G.D.R. 1975, Macdeonian Acad. of Sciences 1976; State Prize 1955, 1966, Copernicus Medal, Polish Acad. of Sciences 1977, Bulgarian Order of Kirill and Methodius, 1st Class 1970, Commdr. Cross of Order of Polonia Restituta 1971, Medal of 30th Anniversary of People's Poland 1974, Commdr. Croce al Merito della Repubblica Italiana 1975, Gold Medal of Czechoslovak Acad. of Sciences 1975, Order of Standard of Labour, 1st Class, 1978; Hon. citizen of Poznań. *Publications:* Studia nad osadnictwen Wielkopolski wczesno-historycznej (Studies of Settlement in Wielkopolska in the Early Historical Period) Vols. 1-V 1948-72, Słowianszczyzna wczesnośredniowieczna—Zarys kultury material-nej (Early Medieval Slav Culture—An outline of Material Culture) 1952, 1956, 1965, Sztuka społeczeństw paleolitycznych (The Art of Palaeolithic Societies) 1957, Poznań w zaraniu dziejów (Poznań in Protohistoric Times) 1958, Najdawniejsze stolice Polski (Poland's Ancient Capitals) 1960, The Beginnings of the Polish State 1960, Polska przed tysiacem lat (Poland a Thousand Years Ago) 1960, 1964, 1967, Archeologia o początkach miast słowiańskich (Origins of Slavonic Towns in Light of Archaeology) 1963, Die Slawen im frühen Mittelalter 1965, La Naissance de la Pologne 1966, Anfänge der Städte bei den Ost- und Westslawen 1967, Ziemie Polskie w pradziejach (Poland in Prehistoric Times) 1969, Archeologia i Prahistoria (Archaeology and prehistory) 1971, Polska starożytna (Poland in Ancient Times) 1973, Archeologia zywa (Alive Archaeology) 1973, Ur- und Frühgeschichte Polens 1974; U Zródel Polski średniowicznej (Sources of Poland in the Middle Ages); Editor Slavia Antiqua, Archaeologia Polona, Archaeologia urbium, Światowit and Polski Badania Archeologiczne (Polish Archaeological Researches). *Leisure interest:* arts. *Address:* Al. Świerczewskiego 105, 00-140 Warsaw (Office); Marszalkowska 84/92, Ap. 109, 00-514 Warsaw, Poland (Home).

HENSHAW, Kenneth Ralph, M.A.; British oil company exec.; b. 1 Nov. 1918, Canterbury; s. of Ralph and Elsie Henshaw; m. Patricia Helen Heath 1953; one d.; ed. King's School, Canterbury and Trinity Coll., Oxford; Sr. Vice-Pres. Sinclair and BP Explorations Inc. 1959-63; Regional Man. Exploration Dept. The British Petroleum Co. Ltd. 1963-65; Man. Dir. Kuwait Oil Co. Ltd. 1965-73; Exec. Deputy Chair. Airwork Services Ltd. 1973-; Chair. of Middle East Navigation Aids Service; Dir. Bricomin Exploration Co. Ltd.; Fellow Inst. of Petroleum. *Leisure interests:* golf, tennis, shooting. *Address:* 8 Parkside, Knightsbridge, London, S.W.1, England. *Telephone:* 01-235 7596.

HENSLEY, Stuart K.; American business executive; b. 8 July 1917, Tampa, Fla.; m.; two d.; with Pacific Mutual Life Insurance Co. 1937-42; U.S. Navy 1942-46; joined the Toni Co. 1946, Pres. 1957-; Vice-Pres. and Dir. The Gillette Co. 1958, Pres. June 1966; Pres. Warner-Lambert Co. July 1967-, Chair. of Board and Chief Exec. Officer Oct. 1967-73, Chair. Exec. Cttee. 1968-; Dir. Jack Winter Inc., N.J. State Chamber of Commerce, Irving Trust Co. *Address:* 201 Tabor Toad, White Plains, N.J. 07950 (Office); 115 Common Street, Dedham, Mass. 02026, U.S.A. (Home).

HENZE, Hans Werner; German composer and conductor; b. 1 July 1926, Gütersloh; s. of Franz Henze and Margarete Geldmacher; ed. Staatsmusikschule, Brunswick, Kirchenmusikalisches Institut, Heidelberg; Musical Dir. Heinz Hilpert's Deutsches Theater in Constance 1948; Artistic Dir. Ballet of the Hessian State Theatre in Wiesbaden 1950; living in Italy as an independent artist since 1953; Prof. of Composition, Mozarteum, Salzburg 1961; mem. Akademie der Künste, Berlin, Bayerische Akademie der Schönen Künste, Munich; Dr. Mus. (Edinburgh) 1971; Robert Schumann Prize 1952, North-Rhine-Westphalia Art Prize 1956, Prix d'Italia 1954, Sibelius Gold Medal, Harriet Cohen Awards, London 1956, Music Critics Prize, Buenos Aires 1958, Kunstpreis, Berlin, Niedersächsischer Kunstpreis 1962, Ludwig-Spohr-Preis 1976. *Composition:* Operas: Das Wundertheater, Boulevard Solitude, König Hirsch, Der Prinz von Homburg, Elegy for Young Lovers 1961, Der Junge Lord 1964, Die Bassariden 1965; Radio Operas: Ein Landarzt, Das Ende einer Welt; Ballets: Jack Pudding, Tancred under Cantylene, Variationen, Labyrinth, The Idiot, Apoll und Hyazirth, Ondine; Oratorio: Novae de Infinito Laudes 1962; Cantatas: Being Beauteous 1963, Ariosi 1963, Cantata della Fiaba Estrema 1963; Choral works: Chorfantasie 1964, Musen Siziliens 1966; Oratorio: Medusa 1968; six Symphonies, Violin and Piano and Violoncello Concertos, Double Concerto for Oboe, Harp and Strings, two String Quartets, Wind Quintet, Kammermusik 1958 (tenor and ensemble), El Cimarron 1969, The tedious way to the place of Natasha Ungeheuer 1970, Heliogabalus Imperator 1971, La Cubana 1972, Voices 1973, Tristan 1974, Ragtime and Habanera 1975; film music for Muriel etc. *Leisure interests:* poetry, botany. *Address:* Via dei Laghi 18, Rome, Italy.

HEPBURN, Audrey; American actress; b. 4 May 1929, Brussels, Belgium; d. of Joseph A. Hepburn and Baroness Ella (van Heemstra) Hepburn; m. 1st Mel Ferrer 1954 (dissolved 1968), one s.; m. 2nd Dr. Andrea Dotti 1969, one s.; ed. Arnhem Conservatoire; studied dancing in Amsterdam and London; ballet appearances in London; stage appearances in Gigi (New York) 1951, Ondine (New York) 1954; Tony award for film acting 1968. *Films include:* Laughter in Paradise 1951, The Lavender Hill Mob 1951, Roman Holiday (Acad. Award) 1953, Sabrina 1954, War and Peace 1956, Funny Face 1957, Love in the Afternoon 1957, The Nun's Story 1959, Green Mansions 1959, The Unforgiven 1960, Breakfast at Tiffany's 1961, The Children's Hour (called the Loudest Whisper in Britain) 1962, Charade 1963, Paris When it Sizzles 1964, My Fair Lady 1964, How to Steal a Million 1966, Two for the Road 1966, Wait Until Dark 1967, Robin and Marian 1976. *Address:* c/o Kurt Frings, 9440 Santa Monica Boulevard, Beverly Hills, Calif. 90210, U.S.A.

HEPBURN, Katherine; American actress; b. 9 Nov. 1909, Hartford, Conn.; d. of the late Dr. Thomas N. Hepburn and Katherine Houghton; m. Ludlow Ogden Smith (divorced); ed. Bryn Mawr Coll., Pa.; professional stage actress since 1928; film actress since 1932; also appears on TV; received gold medal for best film actress, Venice 1934, Whistler Soc. award 1957; three Acad. Awards (Oscars). *Stage plays include:* The Lake, The Philadelphia Story, Without Love 1942, As You Like It 1950, The Millionairess 1952, The Taming of the Shrew 1955, The Merchant of Venice 1955, Much Ado About Nothing 1955, Coco (musical) 1970 (on tour 1971), A Matter of Gravity 1976 (on tour 1977). *Films include:* A Bill of Divorcement 1932, Morning Glory 1933 (Acad. Award 1934), Little Women 1933, Alice Adams 1935, Sylvia Scarlett 1935, Mary of Scotland 1936, A Woman Rebels 1936, Quality Street 1937, Stage Doors 1937, Bringing Up Baby 1938, Holiday 1938, The Philadelphia Story (N.Y. Critics' Award) 1940, Woman of the Year 1942, Keeper of the Flame 1942, Undercurrent 1946, Sea of Grass 1947, State of the Union 1948, Adam's Rib 1949, The African Queen 1951, Pat and Mike 1952, Summer Madness 1955, The Rainmaker 1956, Desk Set 1957, Suddenly Last Summer 1959, Long Day's Journey Into Night 1962, Guess Who's Coming to Dinner? 1967 (Acad. Award 1968), The Lion in Winter 1968 (Acad. Award 1969), The Madwoman of Chaillot 1969, The Trojan Women 1971, A Delicate Balance 1973, The Glass Menagerie (TV) 1973, Love

Among the Ruins (TV) 1975, Rooster Cogburn 1975, Olly Olly Oxen Free 1976, A Matter of Gravity (play) 1976-78. *Address:* P.O. Box 17-154, West Hartford, Conn. 06117, U.S.A.

HEPPEL, Leon A., PH.D., M.D.; American biochemist; b. 20 Oct. 1912, Granger, Utah; s. of Leon George Heppel and Rosa Zimmer; m. Adelaide Keller 1944; two s. ed.; Univ. of California at Berkeley and Univ. of Rochester, N.Y.; Officer, U.S. Public Health Service 1942; Stationed at Nat. Insts. of Health, Bethesda, Md. 1942-67; Prof. of Biochemistry, Cornell Univ. 1967-; mem. Nat. Acad. of Sciences; Hillebrand Award, American Chem. Soc. (Washington Section) 1960. *Publications:* approximately 100 scientific papers in biochemistry since 1939. *Leisure interests:* music appreciation, reading. *Address:* Cornell University, Ithaca, N.Y. 14853, U.S.A.

HEPPENSTALL, Rayner, B.A.; British author; b. 27 July 1911, Huddersfield; s. of Edgar and Lizzie Heppenstall; m. Margaret Edwards 1937; one s. one d.; ed. Huddersfield Coll., Collège Sophie Berthelot, Calais, France, Univ. of Leeds, and Univ. of Strasbourg, France; schoolmaster 1934; freelance author 1935-39; served in army 1939-45; feature writer and producer, BBC 1945-65, Drama Producer 1965-67; Arts Council Retrospective Novel Award (The Blaze of Noon 1939) 1966. *Publications:* First Poems 1935, Apology for Dancing 1936, Sebastian 1937, The Blaze of Noon (novel) 1939, Blind Men's Flowers are Green 1940, Saturnine 1943, (revised as The Greater Infortune 1960), The Double Image 1946, Poems 1933-1945 1946, The Lesser Infortune 1953, Léon Bloy 1954, Four Absentees 1960, The Fourfold Tradition (criticism) 1961, The Connecting Door (novel) 1962, The Woodshed 1962, The Intellectual Part 1963, Raymond Roussel: a critical guide 1966, Portrait of the Artist as a Professional Man 1969, The Shearers 1969, A Little Pattern of French Crime 1969, French Crime in the Romantic Age 1970, Bluebeard and After 1972, The Sex War and Others 1973, Reflections on the Newgate Calendar 1975, Two Moons (novel) 1977; edited: Existentialism (G. de Ruggiero), Imaginary Conversations 1946, Architecture of Truth 1948; Three Tales of Hamlet (with Michael Innes) 1950; translated: Atala and Rene 1963, Impressions of Africa 1966, A Harlot High and Low 1970, When Justice Falters 1972. *Leisure interest:* gardening. *Address:* Coach Cottage, 2 Gilford Road, Deal, Kent, England. *Telephone:* 030-45-63493.

HEPTING, George Henry, PH.D.; American forest pathologist; b. 1 Sept. 1907, Brooklyn N.Y.; s. of George Hepting and Lena Schuler; m. Anna J. Love 1934; ed. Manual Training High School, Brooklyn, N.Y., Brooklyn Technical High School and Cornell Univ.; Asst. Instructor in Pathology, Cornell Univ. 1929-30; Field Asst., Div. of Forest Pathology, Bureau of Plant Industry, U.S. Dept. of Agriculture (U.S.D.A.), Mass. 1931-32, Louisiana 1932-33, Asst. Pathologist 1933-37, Assoc. Pathologist 1937-40, Pathologist 1940-46, Senior Pathologist 1946-53; Chief, Forest Disease Research, Southeastern Forest Experimental Station, Forest Service 1953-62, Chief Research Scientist 1962-71; Adjunct Prof. of Forestry and Plant Pathology, North Carolina State Univ. 1971-; Fellow, Soc. of American Foresters, American Phytopathological Soc.; mem. Nat. Acad. of Sciences; U.S.D.A. Superior Service Award 1954, Barrington Moore Award of Soc. of American Foresters 1963, U.S.D.A. Special Merit Award 1967, Southern Forest Pathological Award 1967, Int. Shade Tree Conf. Citation Award 1972, Weyerhauser Award (for writings on forest history) 1975. *Publications:* Plant-Disease Development and Control 1968, Forest and Shade Tree Diseases of the United States 1971; and 150 scientific articles. *Leisure interests:* mineral collecting, gem-cutting, boating, golf. *Address:* 11 Maplewood Road, Asheville, N.C. 28804, U.S.A.

HERB, Raymond George, PH.D.; American emeritus professor of physics; b. 22 Jan. 1908, Navarino Wis., s. of Joseph and Annie Herb; m. Anne Williamson 1945; two s. three d.; ed. Univ. of Wisconsin.; Research Assoc. in Physics, Univ. of Wis. 1935-39, Research Assoc. and Asst. Prof. in Physics 1939-40, Assoc. Prof. 1941-45, Prof. 1945-61, Charles Mendenhall Prof. of Physics 1961-72; Pres. and Chair of Board Nat. Electrostatics Corp. 1965-; mem. Nat. Acad. of Sciences; Distinguished Service Citation for Coll. of Engineers, Univ. of Wis.; Dr. h.c. (Univs. of Basel and São Paulo); Tom W. Bonner Award 1968. *Publication:* Van de Graaf Generators in Handbuch der Physik XLIV 1959. *Address:* National Electrostatics Corporation, Graber Road, P.O. Box 117, Middleton, Wis. 53562 (Office); P.O. Box 223A, Rural Route 1, Mazomanie Wis. 53560, U.S.A. (Home). *Telephone:* (608) 831-7600 (Office).

HERBERT, Jean Jules M. E.; French surgeon; b. 16 July 1905, St. Médard/Ille; ed. Lycée de Rennes and Univ. de Paris à la Sorbonne; Head of clinic, Faculty of Medicine, Paris; Surgeon, Hospital Aix-les-Bains 1936-; Chief Surgeon of hospitals Aix-les-Bains 1941-; founder surgical centre for osteoarticular surgery and rheumatology; Pres. Centre de Recherches du Rhumatisme 1948-; founder of the first French bone bank 1948; Editor-in-Chief Rhumatologie; mem. Acad. of Surgery, and Int. Soc. of Surgery; Pres. French Soc. of Orthopaedic Surgery and Traumatology; mem. numerous socs. including Royal Soc., London, Académie Nationale de Médecine; Officier Légion d'honneur, Croix de guerre, Officer de la Santé publique. *Publication:* Chirurgie du rhumatisme. *Address:* 11 boulevard de la Roche du Roi, 73100 Aix-les-Bains, France. *Telephone:* 35-07-01.

HERBERT, Zbigniew; Polish poet, essayist and playwright; b. 29 Oct. 1924, Lvov; s. of Bolesław Herbert and Maria Kaniak; ed. Cracow, Torun and Warsaw Univs. Co-editor Twórczosc 1955-65, Poezja 1965-68; mem. Polish Writers' Assen. 1955-, Gen. Board Foreign Cttee.; Prof. of Modern European Literature, Calif. State Coll., Los Angeles 1970; Prize from Polish Inst. of Sciences and Arts in America; Jurzykowski Prize, Lenau Int. Prize for European Literature, Vienna 1965, Knight's Cross of Order Polonia Restituta 1974. *Publications:* Poetry includes: Struna światła (A String of Light) 1956, Hermes, pies i gwiazda (Hermes, A Dog and a Star) 1957, Studium przedmiotu (The Study of an Object) 1961, Napis (The Inscription) 1969, Wirsze Zebrane (Collected Verse) 1971, Pan Cogito (Mr. Cogito) 1974, Selected Poems (in English and German); radio plays and drama include: Dramaty (Dramas) 1970, Inny pokój (The Other Room), Jaskinia filozofów (Cave of Philosophers), Lalek, Rekonstrukcja Poety 1973; essays: Barbarzynca w orgodzie (A Barbarian in the Garden) 1963. *Address:* Krakowskie Przedmieście 87/89, Warsaw (Office); ul. Promenady 21m 4, 00-778, Warsaw, Poland (Home). *Telephone:* 41-26-77.

HERBIG, George Howard, PH.D.; American astronomer; b. 2 Jan 1920, Wheeling, W. Va.; s. of George A. Herbig and Glenna Howard; m. 1st Delia McMullin 1943, three s. one d.; m. 2nd Hannelore Tillmann 1968; ed. Univ. of California (Los Angeles and Berkeley); Martin Kellog Fellow, Univ. of Calif. 1946-48; Fellow, Nat. Research Council 1948-49; Junior Astronomer, Lick Observatory, Mount Hamilton, Calif. 1948-50, Asst. Astronomer 1950-55, Assoc. Astronomer 1955-60, Astronomer 1960-; Asst. Dir. Lick Observatory 1960-63, Acting Dir. 1970-71; Prof. of Astronomy, Univ. of Calif. (Santa Cruz) 1967-; Visiting Prof. and lecturer Chicago 1959, Mexico 1961, Observatoire de Paris 1965, Max-Planck-Institut für Astronomie, Heidelberg 1969, Stockholm 1973, Hawaii 1976-77; mem. U.S. Nat. Acad. of Sciences astronomy del. to People's Repub. of China 1977; Sigma Xi Nat. Lecturer 1972-73; Henry Norris Russell Lecturer, American Astronomical Soc. 1975-; lectured in U.S.S.R. and Poland under exchange agreement, U.S.-U.S.S.R. Acads. of Science 1965; U.S. Nat. Science Foundation Senior Postdoctoral Fellow 1965; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Corresp. mem. Société scientifique Royale de Liège, Max-Planck-Inst. für Astronomie, Heidelberg; mem. numerous boards, comms., consultancies, etc.; Warner Prize, American Astronomical Soc. 1955; medal from Univ. of Liège 1969. *Publications:* Editor of and contributor to Non-Stable Stars 1957, Spectroscopic Astrophysics 1970; approximately 180 scientific papers, articles and reviews. *Leisure interests:* none. *Address:* Lick Observatory, University of California, Santa Cruz, Calif. 95064, U.S.A. *Telephone:* (408) 429-2447.

HERBST, Axel, LL.D.; German diplomatist and fmr. European Econ. Community official; b. 1918; ed. Univs. of Berlin, Colgne and Münster, Acad. of Int. Law, The Hague, and Law Society's School of Law, London; German Foreign Service 1951, German Embassy, Washington; Head, North American Desk, Fed. Ministry of Foreign Affairs 1957-60; Dep. Exec. Sec. Comm. of the European Economic Community (EEC) 1960-63, Dir.-Gen. External Relations 1963-68; Ministerial Dir. and Head of Foreign Trade and Devt. Div. Fed. Ministry of Foreign Affairs 1969-73; Amb., Perm. Rep. to UN, Geneva 1973-76; Amb. to France 1976-. *Address:* 13/15, Avenue Franklin D. Roosevelt, F75008 Paris, France. *Telephone:* 359-33-51.

HERDAL, Harald; Danish author; b. 1900; ed. primary schools; *Publications:* Nyt Sind 1929, Eros og Doden 1931, Tirsdag 1932, Bisser 1933, Nøgene Digte 1933, Man skal jo leve 1934, En lidt almindelig Historie 1934, Løg 1935, Den første Verden 1936, Der er noget ivejen 1936, Mennesket 1937, Mens vi blir voxne 1937, En Egn of Landet 1939, Digte gennem ti Aar 1940, Blomstrende Tjørne 1941, Tusmørke 1943, Nye Digte 1944, Barndom, Erindringer I 1944, De unge Aar, Erindringer II 1945, Læreaar, Erindringer III 1946, Digte i Vinteren 1946, Digte 1929-1949, Ukuelige Menneske 1949, I berøring med livet 1950, Drømmeren 1951, Skyede Sommerdage 1952, Guld-spurven og Sølvfuglen 1953, Jammersminde 1953, Rast undervejs 1954, Elise 1955, Dagens går 1955, Grevinde Danner 1956, Det største 1957, The Tin Boxes 1958; biography: Danish Authors 1952, Hegnets Nattergal 1960, Moderne dansk for udlaendige 1963, Den Danske Sommer 1963, Traelene i Norden

1964, Bisser 1964, Udvalgte Fortaellinger 1967, Bøger og pottrætter 1970, Arbejdsår, Erindringer IV 1970, En bibliotekslåners vandringer 1971, Arbejdsløs. 1977. *Address:* Folehavej 23, 2970 Hørsholm, Denmark. *Telephone:* 862457.

HÉREIL, George Jules Bernard Victor, LL.D.; French aviation and automobile executive; b. 28 Aug. 1909, Paris; s. of Charles and Henriette Héreil (née Hoïdn); ed. Paris Law Faculty; Hon. Liquidator Paris Commercial Court; following merger of SNCASE and SNCASO Pres. and Dir.-Gen. Sud-Aviation 1946-62, Hon. Chair. 1962-; Pres. and Dir.-Gen. Papeteries de la Chapelle, Hon. Chair. 1963; Hon. Pres. Union Syndicale des Industries Aéronautiques; Founder-Pres. Assen. Int. des Constructeurs de Matériel Aéronautiques; Pres. Lehman Bors. Int., Hon. Chair. 1963; Chair. Gen. Man. Chrysler France 1963-71; Board of Dirs. Chrysler France, Chrysler España, Chrysler United Kingdom, Hewlett Packard, France; Hon. Pres. Board of Chrysler Int.; Pres. Supervisory Council Soc. Agache-Willot; Commdr. Légion d'honneur and Italian, Finish, Swedish, Belgian, Dutch and German orders; Médaille de l'aéronautique. *Leisure interest:* piano. *Address:* Plateau de Frontenex 9B, 1208, Geneva, Switzerland.

HERFORTH, Lieselott, DR.ING.; German physicist and politician; b. 13 Sept. 1916, Altenburg; employed in German Acad. of Sciences, Berlin, German Democratic Republ. 1949-60; Prof. of Experimental Physics, Dresden Tech. Univ. 1960-, Rector 1965-68; Prof. Tech. Univ., Leuna-Merseburg; mem. Council of State, Volkskammer 1963-, German Acad. of Sciences 1969-; Vaterländischer Verdienstorden in Silver and other decorations. *Address:* Sektion Physik, Technische Universität, Dresden, German Democratic Republic.

HERING, Gerhard F.; German author and theatrical director; b. 28 Oct. 1908, Rogasen; ed. Humanistisches Gymnasium, Stettin, Univs. of Berlin and Heidelberg; Asst., Preussisches Staatstheater Berlin; joined Magdeburgische Zeitung 1933, theatre critic and literary editor 1934-37; theatre critic Kölnische Zeitung 1937-42; forced to resign for political reasons; editor Vision 1946-48; chief producer Deutsches Theater, Konstanz 1946-50; Dir. Otto-Falckenberg-Schauspielschule der Kammerspiele, Munich 1950-52; chief opera and drama producer, Württembergische Staatstheater, Stuttgart 1952-54; free-lance writer and producer for radio, television and theatre in Munich, Stuttgart, Frankfurt, Göttingen 1954-60; Head of W.D.R.—Studios Kultur, Düsseldorf 1960-61; Dir. Landestheater, Darmstadt 1961-71; Hon. Prof. Theaterwissenschaft, Univ. of Giessen 1967-; productions have included plays of Sophocles, Euripides, Goethe, Schiller, Grillparzer, Lessing, Gerhart Hauptmann, Georg Kaiser, Konrad Wünsche, Sartre, Genet; mem. PEN-Zentrum of German Fed. Republic, Deutsche Akad. für Sprache und Dichtung; mem. Deutsche Akad. der Darstellenden Künste (Vice-Pres. 1966, Pres. 1970). *Publications include:* Porträts und Deutungen—Von Herder zu Hofmannsthal 1948, Klassische Liebespaare 1948, 1950, Ein Brunnen des Lebens 1950, Gerhart Hauptmann 1955, Der Ruf zur Leidenschaft 1959, Ein grosser Herr: Das Leben des Fürsten Pückler (with Vita Huber) 1969; introductions and contributions to numerous books and texts. *Address:* Bessunger Strasse 44, 61 Darmstadt, Federal Republic of Germany. *Telephone:* 122005.

HERMANN, Joachim; German politician; b. 29 Oct. 1928, Berlin; Mem. of the Sozialistische Einheitspartei Deutschlands (SED), E. Germany (now German Democratic Repub.) 1946-; Deputy Editor Freie Deutsche Jugend (FDJ) newspaper Junge Welt 1949-52, Chief Editor 1952-60; mem. the FDJ Cen. Council 1952-59; official of SED Cen. Cttee. 1960-62, Cand. mem. 1967-71, mem. 1971-, Sec. 1976-; Chief Editor Berliner Zeitung 1962-65; State Sec. of All-German/West German Affairs 1965-71; Chief Editor Neues Deutschland 1971-78; Cand. mem. SED Politburo 1973-; Sec. for Agitation and Propaganda 1978-; Vaterländischer Verdienstorden in Bronze, Silver and Gold, Orden Banner der Arbeit and other decorations. *Address:* Sozialistische Einheitspartei Deutschlands, 102 Berlin, Am Marx-Engels-Platz 2, German Democratic Republic.

HERNÁNDEZ ACOSTA, Valentín; Venezuelan engineer; b. 1925, San Fernando de Apure; s. of Valentín Hernández and Lola Acosta; m. Isabel Díaz Gorrin 1952; one s. three d.; ed. Univ. Central de Venezuela, London, School of Econs.; Amb. to Libya, Tunisia and Morocco, Romania and Austria; Minister of Energy and Mines 1974-79; Pres. OPEC 1975; Chair. Petróleos de Venezuela (PDVSA) Shareholders Assembly. *Leisure interest:* golf. *Address:* Ministerio de Energía y Minas, Terre Norte Piso 25, Centro Simón Bolívar, Caracas, Venezuela.

HERNÁNDEZ COLÓN, Rafael, A.B., LL.B.; Puerto Rican lawyer and politician; b. 24 Oct. 1936, Ponce; s. of Rafael Hernández Matos and Dorinda Colón Clavell; m. Lila Mayoral 1959; three s. one d.; ed. Valley Forge Mil. Acad., Wayne Pa., Johns Hopkins Univ., Univ. of Puerto Rico Law School; private law practice 1959; Assoc. Commr. of Public Service 1960-62; Lecturer in Law, Catholic Univ. of Puerto Rico 1961-65; Sec. of Justice 1965-57; Senator at Large, Popular Democratic Party 1968; Pres. of Senate 1967-72; Pres. of Popular Democratic Party 1969-; Gov. of Puerto Rico 1972-76; Trustee Carnegie Foundation for Int. Peace; mem. Inter American Bar Assen.; Dr. h.c. (Johns Hopkins Univ., Catholic Univ. of Puerto Rico). *Publications:* Text on Civil Procedure 1968, and many articles on topics of law. *Address:* P.O. Box H1, Caparra Heights Station, San Juan 00922, Puerto Rico.

HERNÁNDEZ OCHOA, Lic. Rafael; Mexican politician; b. 1915, Vega de la Torre, Ver; ed. Univ. Veracruzana, Univ. de Mexico; fmr. Agent of the Public Ministry and judge in various towns in the province of Veracruz; subsequently Pres. Nat. Cattle Confed.; Dir. of Population, Ministry of the Interior; Private Sec. to Luis Echeverría; Dir. of Political and Social Investigations; Under-Sec. for the Interior 1964-70; Sec. of Labour and Social Security 1970-72; mem. Chamber of Deputies 1973-; State Gov., Veracruz 1975-. *Address:* Oficina del Gobernador del Estado, Veracruz, Mexico.

HERNELIUS, (John) Allan, LL.B.; Swedish journalist; b. 19 March 1911, Tidaholm; s. of A. J. and Elsa (Myrsten) Hernelius; m. Jeanette von Heidenstam 1957; ed. Stockholm Univ.; Sec. Swedish Assocn. of Retail Grocers 1939, Man. Dir. 1941; Vice-Man. Dir. Swedish Retail Fed. 1943; Man. Dir. Swedish Newspaper Publishers' Assen. 1945; Asst. Chief Editor Svenska Dagbladet 1949, Chief Editor 1955-70, mem. of Board 1956-; Adviser, UN Conf., Geneva 1948; mem. Psychological Defence Cttee. 1949; Pres. Swedish Cttee., Int. Press Inst. 1951-71; Chair. Stockholm section Conservative Party 1953-55, Foreign Relations Cttee. 1976-; mem. of Board Royal Defence Coll. 1952-, Swedish Radio and Television 1953-70, Stockholm Stock Exchange 1959-74; mem. UN Cttee. on Disarmament 1972-76; mem. Swedish del. to UN 1964-66, 1969-70; mem. Riksdag (Parl.) 1962-, Board Sveriges Riksbanks 1970-, Vice-Chair. 1974-. *Address:* Styrmansgatan 1, Stockholm Ö, Sweden (Home). *Telephone:* 62-07-05.

HERON, Patrick, C.B.E.; British painter; b. 30 Jan. 1920, Leeds, Yorks.; s. of T. M. and Eulalie Heron (née Davies); m. Delia Reiss 1945; two d.; ed. Slade School, London; Art Critic New English Weekly 1945-47, New Statesman and Nation 1947-50; London corresp. Arts, New York 1955, resigned and ceased writing 1958, teacher of painting Cen. School of Arts and Crafts, London 1953-55; since 1947 fifty one-man exhbns. in London, New York, Zürich, Edinburgh, Oslo, Rio de Janeiro, Buenos Aires, Santiago, Lima, Caracas, Toronto, Minneapolis, Melbourne, Montreal, Perth, Sydney and Dublin, retrospective exhbns. Wakefield City Art Gallery 1952, Demarco Gallery Edinburgh 1967, Museum of Modern Art, Oxford 1968; one-man shows at São Paulo Bienal 1954, 1965, Whitechapel Art Gallery, London 1972 and numerous group exhbns. in Europe and America, many organized by British Council; paintings in numerous public galleries, including Tate Gallery, British Museum, Victoria and Albert Museum, Arts Council, British Council, Nat. Portrait Gallery, Stuyvesant Foundation, C. Gulbenkian Foundation, London; Nat. Museum of Wales, Cardiff; Montreal Museum of Fine Art; Musée d'Art Contemporain, Montreal; Toronto Art Gallery; Vancouver Art Gallery; Nat. Gallery of W. Australia, Perth; Power Collection, Sydney; Brooklyn Museum, N.Y.; Boymans Museum, Rotterdam; Smith Coll. Museum of Art, Mass.; Toledo Museum of Art, Ohio; Albright-Knox Art Gallery, Buffalo, N.Y.; Univ. of Michigan Museum of Art, Ann Arbor, etc.; Lecture tour of Australia 1973; Main Prize at John Moores Liverpool Exhbn. II 1959, Silver Medal São Paulo Bienal 1965. *Publications:* The Changing Forms of Art 1955, Ivon Hitchens 1955, Braque 1958 and numerous articles on art. *Leisure interest:* painting. *Address:* Eagle's Nest, Zennor, near St. Ives, Cornwall; and 12 Editha Mansions, Edith Grove, London, S.W.10, England. *Telephone:* St. Ives 6921 and 01-352 1787.

HÉRON DE VILLEFOSSE, René; French archivist; b. 17 May 1903, Paris; s. of A. Héron de Villefosse and Lucie de Thomassin; m. Dauphine Delon 1965; three c.; ed. Ecole des Chartes; on staff of the Petit Palais, Paris 1930; Asst. Keeper 1936-42; Keeper 1942-47; Keeper-in-chief of Musées de la Ville de Paris and of the Musée de l'Ile de France (Château de Sceaux) 1956-69; fmr. Prof. Ecole du Louvre; Officier Légion d'honneur, Commdr. des Arts et des Lettres and many other decorations. *Publications:* Paris vivant 1932, Construction de Paris 1938, Singularités de Paris 1941, Bourgeois de Paris 1942, Prés et bois parisiens 1943, Histoire de Paris 1944, Trésors méconnus de Paris 1946, Aux belles de Paris 1947, Charles le Sage 1947, Voyage au temps de la douceur de vivre 1947, La rivière enchantée 1950, Dames de Paris 1951, Couronnes de

Paris 1952, A travers les Vignes 1953, Histoire et géographie gourmandes de Paris 1956, Histoire et géographie galantes de Paris 1958, Portes maritimes de l'Europe 1961, La Seine, qui fit Paris 1961, L'Ile de France 1965, Segonzac et l'Ile de France 1966, Le coeur battant de Paris 1968, La natur, source de l'art 1968, Les graves heures de la Commune 1970, Les grandes heures de la Champagne 1971, Les Halles de Lutèce à Rungis 1973, L'Antiversailles ou le Palais-Royal de Philippe-Egalité 1974, Histoire des grandes routes de France 1975, Si j'étais l'Accusateur public 1976. *Leisure interests:* books, gastronomy. *Address:* 20 rue Ernest Cresson, 75014 Paris, France (Home). *Telephone:* 539-59-47.

HEROUT, Vlastimil, DR.TECHN. ING., D.SC.; Czechoslovak natural products chemist; b. 17 March 1921, Želf; s. of Vojtěch and Marie Herout; m. Hana Freiberková 1946; two. s. two d.; ed. Inst. of Chemical Technology, Prague; Assen. of Chemical and Metallurgical Production, Pardubice-Rybitví 1941-46; Inst. of Chemical Tech. 1946-50; Inst. of Organic Chem. and Biochem. 1950-; Prof. of Organic Chem., Inst. of Chemical Tech. 1964-; Chair. Scientific Collegium of Organic Chem. and Biochem. 1962, Scientific Board of Organic Chem. and Biochem., C.S.S.R. Acad. of Sciences 1963-; mem. IUPAC Bureau 1969-77; Chair. Czechoslovak Nat. Cttee. of Chem. 1971-; Dir. Inst. of Organic Chem. and Biochem., C.S.S.R. Acad. of Sciences 1970-77; Corresp. mem. Czechoslovak Acad. of Sciences 1960; mem. American Chem. Soc., British Phytochemical Soc., Deutsche Gesellschaft für Arzneipflanzenforschung, American Soc. of Pharmacognosy; State Prize 1951, 1962, several awards of C.S.S.R. Acad. of Sciences. *Publications:* more than 250 scientific publications including original data concerning newly discovered natural compounds from plants and their structures; monographs especially on laboratory techniques and chemical systematics; six patents in the field of organic chemistry. *Leisure interests:* growing orchids, tourism. *Address:* Flemingovo námestí 2, 166 10 Prague 6, Czechoslovakia. *Telephone:* 32-16-62.

HERRERA-BÁEZ, Lic. Porfiro; Dominican diplomatist and international lawyer; b. 8 Nov. 1915, San Pedro de Macorís; m. Silvia P. de Herrera; ed. Univ. Autónoma de Santo Domingo and Columbia Univ., New York; joined Dominican Foreign Service and served in U.S.A. 1941-45, U.K. 1945-46, Italy 1946-47; Amb. to Brazil 1948; Under-Sec. of State for Foreign Affairs 1949; mem. Advisory Comm. on State Affairs 1952; Chief of Div. of UN and OAS Affairs and Int. Confs., Ministry of Foreign Affairs 1953-54; Sec. of State, Office of Pres. 1954-55; Sec. of State for Foreign Affairs 1955-61; Amb. to Vatican 1961-62; Amb. to U.K. 1966-75, to Portugal 1972, to Italy (also accred. to Greece and Sweden) 1975-; del. to UN Gen. Assembly and other int. confs.; decorations from Dominican Repub., Peru, Spain, Panama, China, Mexico, France, Liberia, Lebanon, Germany, Paraguay and Netherlands. *Publications include:* Pedro Alejandrino Pina, El Consejo Interamericano de Jurisconsultos, The Fifth Meeting of Foreign Ministers in Santiago, Chile. *Address:* Embassy of the Dominican Republic, Via Romanga 26, Rome, Italy. *Telephone:* 937-1921.

HERRERA CAMPINS, Luis, D.IUR.; Argentine politician; b. 4 May 1925, Acarigua, Portuguesa State; mem. Partido Social Cristiano (COPEI) 1946-; represented COPEI at first World Conf. of Christian Democrat Parties 1956; Deputy for Lara State 1958; Pres. COPEI 1961; elected both Deputy for Lara and Senator for Portuguesa 1963, re-elected Deputy for Lara 1968; President of Argentina March 1979-. *Address:* c/o Oficina del Presidente, Buenos Aires, Argentina.

HERRHAUSEN, Alfred, DR.RER.POL.; German banker; b. 30 Jan. 1930; Diplom-Kaufmann; mem. Man. Board, Deutsche Bank AG; Chair. Supervisory Board, Bergmann-Elektricitäts-Werke AG, Continental Gummi-Werke AG, Deutsche Telephonwerke und Kabelindustrie AG; Vice-Chair. Supervisory Board, Klöckner-Werke AG, Strabag Bau-AG, Vereinigte Elektricitätswerke Westfalen AG; mem. Supervisory Board, Allianz Lebensversicherungs-AG, Basalt-Aktien-Gesellschaft, Daimler-Benz AG, Th. Goldschmidt AG. *Address:* Deutsche Bank AG, 4000 Düsseldorf, Königsallee 1945-47, Federal Republic of Germany.

HERRIDGE, Geoffrey Howard, C.M.G.; British oil executive; b. 22 Feb. 1904, Maisemore; s. of Edward Herridge and Mary Elizabeth Welford; m. Dorothy Elvira Tod 1935; two s. two d.; ed. Crypt School, Gloucester and St. John's Coll., Cambridge; joined Turkish Petroleum Co. Ltd. (later Iraq Petroleum Co. Ltd.) Iraq 1926; served in Iraq, Jordan, Palestine 1926-47; Gen. Man. in Middle East for Iraq, Petroleum Co. and Assoc. Cos. 1947-51, Exec. Dir. 1953-57, Man. Dir. 1957-63, Deputy Chair. 1963-65, Chair. 1965-70; mem. London Cttee., Ottoman Bank 1964; Chair. Petroleum Industry Training Board 1967-70. *Leisure interest:* yachting. *Address:* Flint, Sidlesham Common, Nr. Chichester, Sussex, England. *Telephone:* 0243-56-357.

HERRING, Lt.-Gen. the Hon. Sir Edmund Francis, K.C.M.G., K.B.E., D.S.O., M.C., E.D., Q.C., M.A., B.C.L.; Australian officer and lawyer; b. 2 Sept. 1892, Maryborough, Victoria; s. of late Edmund Selwyn Herring and late Gertrude Stella Fetherstonhaugh; m. Mary Ranken Lyle, D.B.E. 1922; three d.; ed. Melbourne Grammar School, Trinity Coll., Melbourne, and New Coll., Oxford (Rhodes Scholar); served First World War 1914-19, King Edward's Horse and R.F.A.; called to Bar, Inner Temple 1920; admitted Barrister and Solicitor, Melbourne 1921; practised as Barrister 1921-39; K.C. 1936; served A.I.F. 1939-44; commanded 6th Div. 1941-42; Northern Territory Force 1942; New Guinea Force 1942-43; 1 Australian Corps 1942-44; C.B.E. 1941; Greek M.C. Class "A" 1941; D.S.C. (American) 1943, K.B.E. 1943; Lieut.-Gov. of Victoria 1945-72; Chief Justice Supreme Court of Victoria 1944-64; Chancellor, Diocese of Melbourne 1941-; Hon. Fellow, New Coll. Oxford; Pres. Boy Scout Assen. of Victoria 1945-68, Australian Boy Scouts' Assen. 1959-77, Toc H, Australia 1947-; Dir.-Gen. Recruiting 1950-51; Leader Australia Contingent to Coronation 1953; Chair. Australian War Memorial, Canberra 1959-74; Hon. Col. Melbourne Univ. Regt. 1950; Hon. Bencher Inner Temple 1963; Hon. D.C.L. (Oxford) 1953, Hon. LL.D. (Monash); Knight of St. John. *Leisure interest:* golf. *Address:* 226 Walsh St., South Yarra, Victoria 3141, Australia. *Telephone:* Melbourne 261000.

HERRING, James P.; American retail executive; b. 29 June 1914, Greenville, N.C.; Founder and fmr. Pres. Sav-On Drugs Inc.; Vice-Pres. Drug Div., The Kroger Co. 1960, Corporate Vice-Pres. 1966, Drug Div., The Kroger Co. 1960, Corporate Vice-Pres. 1966, Dir. 1968-, Pres. 1970-75, Chief Exec. Officer 1971-75, Chair. 1975-79; Dir. Cen. Trust Co., Cen. Bancorpn. Inc., Cincinnati Gas and Electric Co., Cincinnati Milacron Inc., Anchor Hocker Corpn., Ohio Nat. Life Insurance Co., and mem. various civic orgs., etc. *Address:* 247 River Drive, Tequesta, Fla. 33458, U.S.A.

HERRING, (William) Conyers, PH.D.; American physicist; b. 15 Nov. 1914, Scotia, N.Y.; s. of Dr. W. Conyers Herring and Mary Joy Herring; m. Louise C. Preusch 1946; three s. one d.; ed. Univ. of Kansas and Princeton Univ.; Nat. Research Council Fellow, M.I.T. 1937-39; Instructor in mathematics, and Research Assoc. in Mathematical Physics, Princeton Univ. 1939-40; Instructor in Physics, Univ. of Missouri 1940-41; mem. Scientific Staff, Columbia Univ. Div. of War Research 1941-45; Prof. of Applied Mathematics, Univ. of Texas 1946; Research Physicist, Bell Telephone Laboratories 1946-; mem. Inst. for Advanced Study, Princeton 1952-53; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Oliver E. Buckley Solid State Physics Prize, American Physical Soc. 1959, Distinguished Service Citation, Univ. of Kansas 1973. *Publication:* Exchange Interactions among Itinerant Electrons (Vol. 4 of series Magnetism) 1966. *Leisure interests:* tennis, church and cultural activities. *Address:* Bell Telephone Laboratories, Murray Hill, N.J. 07974 (Office); 3 Hawthorne Place, Summit, N.J. 07901, U.S.A. (Home). *Telephone:* 201-582-2308 (Office); 201-273-2338 (Home).

HERSCHBACH, Dudley Robert, B.S., M.S., A.M., PH.D.; American professor of chemistry; b. 18 June 1932, San José, Calif.; s. of Robert Dudley Herschbach and Dorothy Edith Beer; m. Georgene Lee Botyos 1964; two d.; ed. Stanford and Harvard Univs.; Asst. Prof. Univ. of Calif., Berkeley 1959-61, Assoc. Prof. 1961-63; Prof. of Chem., Harvard Univ. 1963-; Frank B. Baird, Jr., Prof. of Science, Harvard Univ. 1976-; Chair. Dept. of Chem. 1977-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Hon. D.Sc. (Toronto) 1977; Pure Chem. Prize, American Chemical Soc. 1965, Pauling Medal, American Chem. Soc. 1978. *Publications:* Research papers in Journal of Chemical Physics, Proceedings of the National Academy, Review of Scientific Instruments, Advances in Chemical Physics, etc. 1955-. *Leisure interests:* viola, running. *Address:* Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, Mass. (Office); Conant Road, Lincoln, Mass., U.S.A. (Home). *Telephone:* (617) 495-3218 (Office).

HERSEY, John Richard, B.A.; American writer; b. 17 June 1914, Tientsin, China; s. of Roscoe Monroe Hersey, Sr. and Grace Baird Hersey; m. 1st Frances Ann Cannon 1940 (divorced 1958), 2nd Barbara Day Kaufman, 1958; three s. two d.; ed. Yale Univ. and Clare Coll., Cambridge; Sec. to Sinclair Lewis 1937; Editor Time 1937-42; War and Foreign Corresp. Time, Life, New Yorker 1942-46; mem. Council, Authors' League of America 1946-70, Vice-Pres. 1948-54, Pres. 1975-; Fellow, Berkeley Coll., Yale Univ. 1950-65; Master, Pierson Coll., Yale Univ. 1965-70, Fellow 1965-; Writer in Residence, American Acad. in Rome 1970-71; Lecturer, Yale Univ.

1971-76, Visiting Prof. 1976-77, Prof. 1977-; Visiting Prof. M.I.T. 1975; mem. American Acad. Arts and Letters 1953, Sec. 1961-76; mem. Nat. Inst. Arts and Letters 1950; Council, Authors' Guild 1946-; Hon. Fellow, Clare Coll., Cambridge Univ. 1967; Hon. M.A. (Yale) 1947, LL.D. (Washington, Jefferson Coll.) 1946, D.H.Litt. (Dropsie Coll.) 1950, L.H.D. (New School for Social Research) 1950, D.Litt. (Wesleyan Univ.) 1957, (Clarkson Coll. of Tech.) 1972; Pulitzer Prize for Fiction 1945, Sidney Hillman Foundation Award 1951, Howland Medal (Yale) 1952. *Publications:* Men on Bataan 1942, Into the Valley 1943, A Bell For Adano 1944, Hiroshima 1946, The Wall 1950, The Marmot Drive 1953, A Single Pebble 1956, The War Lover 1959, The Child Buyer 1960, Here to Stay 1962, White Lotus 1965, Too Far to Walk 1966, Under the Eye of the Storm 1967, The Algiers Motel Incident 1968, Letter to the Alumni 1970, The Conspiracy 1972, The Writer's Craft 1974, My Petition for More Space 1974, The President 1975, The Walnut Door 1977. *Address:* 420 Humphrey Street, New Haven, Conn. 06511, U.S.A. (Home).

HERSHEY, Alfred Day, PH.D.; American Research biologist; b. 4 Dec. 1908, Owosso, Mich.; s. of Robert D. Hershey and Alma (née Wilbur); m. Harriet Davidson Hershey 1946; one s.; ed. Mich. State Univ.; Asst. Bacteriologist, Washington Univ. School of Medicine, St. Louis, Mo. 1934-36, Instructor 1936-38, Asst. Prof. 1938-46, Assoc. Prof. 1942-50; Staff mem. Genetics Research Unit, Carnegie Inst. of Wash., Cold Spring Harbor, N.Y. 1950-62, Dir. 1962-74, (retd.); Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Chicago) Albert Lasker Award of American Public Health Assen. 1958, Kimber Genetics Award of Nat. Acad. of Sciences 1965; Nobel Prize for Medicine (jointly with S. Luria *q.v.*) 1969. *Publications:* numerous technical articles. *Address:* R.D. Box 1640, Moores Hill Road, Syosset, N.Y. 11791, U.S.A.

HERSI, Dr. Abdurahman Nur, M.A.; Somali economist; b. 1934, Eyl District; m. Saida Hersi; two s. two d.; studied in U.S.A. 1954-60; worked in Planning Office of Council of Ministers 1960-64; worked in UN, New York 1964-68, for UN Econ. Comm. for Africa 1968-70; Gov. Somali Nat. Bank 1970-74; Minister of Finance 1974-48; Econ. Adviser to Pres. 1978. *Leisure interests:* reading, swimming. *Address:* Office of the President, Mogadishu, Somalia.

HERTER, Christian Archibald, Jr.; American government official; b. 29 Jan. 1919; s. of Christian Herter (fmr. Sec. of State); ed. Harvard Univ.; admitted Bar 1948; Admin. Asst. to Vice-Pres. Nixon 1953-54; mem. Policy Planning Staff, U.S. Dept. of State 1954; Gen. Man. Govt. Relations Socony Mobil Oil Co., Inc. 1961-67, Corporate Vice-Pres. for Public Affairs 1967; Dir. Office of Environmental Affairs 1970-; mem. American and Boston Bar Assens. *Address:* 10 Mitchell Place, New York, N.Y. 10017, U.S.A.

HERTZ, Roy, PH.D., M.D., M.D.H.; American professor of obstetrics; b. 19 June 1909, Cleveland, Ohio; s. of Aaron D. Hertz and Bertha Lichtman; m. 1st Pearl Ruby Fennell 1934 (died 1962), 2nd Dorothy Oberdorfer 1962; one s. one d.; ed. Univ. of Wisconsin, Johns Hopkins Univ.; U.S. Public Health Service, Div. on Physiology, Nat. Insts. of Health 1941-44; Nat. Cancer Inst. 1944-51; Chair., Endocrinology Section Nat. Cancer Inst. 1946-51; Asst. Clinical Prof. of Medicine, The George Washington Univ. Medical School 1948-66; Nat. Cancer Inst., Nat. Insts. of Health, Bethesda, Md., Chief, Research Medicine, 1951-53, Chief Endocrinology, 1953-65; Scientific Dir., Nat. Inst. of Child Health and Human Devt., Nat. Inst. of Health, Bethesda, Md. 1965-66; Professor of Obstetrics and Gynaecology, The George Washington Univ. School of Medicine, Washington 1966-67; Chief, Reproduction Research, Nat. Inst. of Child Health and Human Devt., Nat. Insts. of Health, Bethesda, Md. 1967-69; Assoc. Dir., the Population Council, The Rockefeller Univ., New York 1969-72, Visiting Scientist 1972-; Prof. of Obstetrics and Gynaecology and of Medicine, Dir. of Clinical Research, New York Medical Coll. Valhalla, N.Y. 1972-73; Research Prof. of Pharmacology and Obstetrics/Gynaecology, George Washington Univ. Medical School 1973-; mem. Nat. Acad. of Sciences 1972-; Fellow, American Coll. of Obstetrics and Gynaecology 1970-; mem. numerous other learned societies; Lasker Foundation Medical Research Award 1972, Cancer Research Award, Int. Coll. of Surgeons 1969. *Publications:* numerous articles on fertility regulation and cancer research. *Leisure interests:* linguistics, gardening. *Address:* Rt 3, Box 582, Hollywood, Md. 20636, U.S.A. (Home).

HERTZOG, Albert, B.A., B.C.L., LL.D.; South African advocate and politician; b. 14 July 1899, Bloemfontein; s. of Gen. J. B. M. Hertzog; m. 1st Katharine Marjorie Whiteley 1933, 2nd Martha Maria Viljoen 1977; ed. Stellenbosch, Amsterdam, Oxford and Leiden Univs.; Mem. Council, Univ. of S. Africa 1936-39; mem. Pretoria City Council 1944-51; elected M.P. for Ermelo 1948, 1953, 1958, 1961 and 1966; foundation mem. of Afrikaanse Pers Beperk and Volkskas Beperk; Minister of Posts and Telegraphs, and of Health 1958-68; Dir. Koopkrag, Pretoria Bank, Afr. Boubeleggings; Leader Herstigte Nasionale Party 1969-77. *Publication:* Saaklike Reg en Eiendom. *Leisure interest:* tennis. *Address:* 390 Edward Street, Waterkloof, Pretoria, South Africa.

HERTZOG, Dirk Willem Ryk, B.A., LLB.; South African business executive; b. 1 Dec. 1914, Jagersfontein, Orange Free State; m. Lorraine de la Harpe 1939; two s. one d.; ed. Jagersfontein and Univ. of Pretoria; practised as lawyer, Couzyn, Hertzog and Horak, Pretoria 1937-53; Co-founder and Vice-Chair. Rembrandt Group Ltd.; Chair. Oude Meester Group Ltd.; Chair. S.A. Council of the Int. Chamber of Commerce; Dir. S.A. Foreign Trade Org. *Address:* Rembrandt Group Ltd., Bird Street, Stellenbosch (Office); Tuin Street, Stellenbosch, South Africa (Home).

HERVÉ-BAZIN, Jean-Pierre Marie, L. ÈS L. (pseudonym Hervé Bazin); French writer; b. 17 April 1911, Angers; s. of Jacques Hervé-Bazin and Paule Guilloteaux; m. Monique Serre-Gray 1967; one s.; (three s. two d. by previous marriage); ed. Faculté des Lettres de Paris; critic for newspaper L'Information; on staff of Editions Grasset, Editions Seuil; Pres. Comm. d'Aide à la Création; Vice-Pres. Assen. of Writers; mem. Acad. Goncourt 1958-, Pres. 1973-, PEN Club, Soc. des Gens de Lettres, conseil nat. des Lettres; Chevalier, Légion d'honneur, Commdr. des Arts et des Lettres, des Palmes académiques; numerous prizes. *Publications:* Poetry: Jours 1947, A la poursuite d'Iris 1948, Humeurs 1953; Novels; Vipère au poing 1948, La tête contre les murs 1949, La mort du petit cheval 1950, Le bureau des mariages 1951, Lève-toi et marche 1952, L'huile sur le feu 1954, Qui j'ose aimer 1956, La fin des asiles 1959, Au nom du fils 1960, Chapeau bas 1963, Plumons l'oiseau 1966, Le matrimonie 1967, Les bienheureux de la désolation 1970, Tristan 1972, Cri de la chouette 1972, Madame Ex 1975, Traits 1976, Ce que je crois 1977. *Leisure interest:* gardening. *Address:* 24 rue Leon Frot., 75011 Paris; Le Grand Courtoiseau, 45220 Triguères, Loiret, France. *Telephone:* 38/94-00-31.

HERWARTH VON BITTENFELD, Hans; German diplomatist; b. 14 July 1904, Berlin; m. Elisabeth, Baroness von Redwitz; one d.; ed. Univs. of Berlin, Breslau and Munich; entered Foreign Office 1927; Attaché, Paris 1930; Second Sec. and Personal Sec. to Amb. Moscow 1931-39; mil. service 1939-45; Govt. Counsellor, Dir., Bavarian State Chancellery 1945-49; Ministerialdirigent and Chief of Protocol, Fed. German Govt. 1950; apptd. Minister 1952; Amb. to U.K. 1955-61; State Sec., Chief of Office of Fed. Pres. 1961-65; Amb. to Italy 1965-69; State Sec. Foreign Office, Bonn. March 1969, now retd.; Chair. Comm. for Reform of Foreign Service 1969-71, Supervisory Board Deutsche Unilever GmbH 1969-77, Venice Cttee. German UNESCO Comm.; Pres. Goethe-Inst., Munich 1971-77; Hon. Pres Deutsch—Englische Gesellschaft, Düsseldorf; Grand Cross 2nd Class, Order of Merit (Fed. Germany), G.C.V.O. (U.K.) and other decorations. *Leisure interests:* antiques, shooting, skiing. *Address:* Menzelstr. 7, 8 Munich 80, Federal Republic of Germany. *Telephone:* 980887.

HERZBERG, Gerhard, C.C., DR.ING., LL.D., D.SC.; Canadian physicist; b. 25 Dec. 1904, Hamburg, Germany; s. of Albin and Ella (Biber) Herzberg; m. 1st Luise Oettinger 1929 (died 1971), one s. one d.; m. 2nd Monika Tenthoff 1972; ed. Darmstadt Inst. of Technology and Univs. of Göttingen and Bristol; Lecturer, Darmstadt Inst. of Technology 1930-35; Research Prof. of Physics, Univ. of Saskatchewan 1935-45; Prof. of Spectroscopy, Yerkes Observatory, Univ. of Chicago 1945-48; Dir. of the Div. of Pure Physics, Nat. Research Council, Ottawa 1949-69; Distinguished Research Scientist, Nat. Research Council 1969-; Bakerian Lecturer, Royal Soc. 1960; George Fisher Baker non-Resident Lecturer in Chemistry, Cornell Univ. 1968; mem. Royal Soc. of Canada, Pres. Section III 1951-52, Pres. 1966-67; Hon. mem. Hungarian Acad. of Sciences 1964, Optical Soc. of America 1968; Hon. Foreign mem. American Acad. of Arts and Sciences 1965; Hon. mem. Japan Acad. 1976, Chem. Soc. of Japan 1978; Foreign Assoc. Nat. Acad. Sciences, Washington 1968; Academician Pontifical Acad. of Sciences 1964; Fellow, Royal Soc. of London; Hon. Fellow, Indian Acad. of Sciences, Chemical Soc. of London 1968; Univ. of Liège Medal 1950, Henry Marshall Tory Medal (Canadian Royal Soc.) 1953, Joy Kissen Mookerjee Gold Medal (Indian Assen. for the Cultivation of Science) 1957, Frederic Ives Medal (Optical Soc. of America) 1964, Willard Gibbs Medal (American Chemical Soc.) 1969, Faraday Medal (Chemical Soc. of London) 1970, Royal Medal (Royal Soc. of London) 1971, Linus Pauling Medal (American Chemical Soc.) 1971, Nobel Prize in Chem. 1971. *Publications:* Atomic Spectra and Atomic Structure 1937, Molecular Spectra and Molecular Structure: I. Spectra of Diatomic Molecules 1939, II. Infra-red and Raman Spectra of Polyatomic Molecules 1945, III. Electronic Spectra

Polyatomic Molecules 1966, IV. Constants of Diatomic Molecules (with K. P. Huber) 1979, The Spectra and Structures of Simple Free Radicals: An Introduction to Molecular Spectroscopy 1971. *Leisure interest:* music. *Address:* National Research Council, Ottawa, Ontario, K1A 0R6 (Office); 190 Lakeway Drive, Ottawa, Ontario, K1L 5B3, Canada (Home). *Telephone:* 992-2350 (Office); 746-4126 (Home).

HERZOG, Gen. Chaim, LLB.; Israeli lawyer, diplomatist and military expert; b. 17 Sept. 1918, Belfast, N. Ireland; s. of Rabbi Dr. Isaac and Sarah Herzog; m. Aura Ambache 1947; three s. one d.; Ed. Wesley Coll. Dublin, Govt. of Palestine Law School, Jerusalem, London and Cambridge Univs., Lincoln's Inn, London; went to Palestine 1935; served in British Army, World War II; rank of Maj.; Dir. Intelligence, Israeli Defence Forces 1948-50; Defence Attaché, Israeli Embassy, Washington, Ottawa 1950-54; Field Commands 1954-59; Dir. Mil. Intelligence 1959-62; Gen. 1961; Man. Dir. G.U.S. Industries 1962-72; Gov. West Bank of the Jordan 1967; Senior Partner, Herzog, Fox and Neeman 1972-; Perm. Rep. to UN 1975-78; Hon. Dr. (Yeshiva Univ., N.Y., Jewish Theological Seminary, N.Y., Bar-Ilan Univ., Israel); Hon. K.B.E. 1970. *Publications:* Israel's Finest Hour (Hebrew and English) 1967, Days of Awe (Hebrew) 1973, Judaism, Law and Ethics 1974, The War of Atonement 1975, Who Stands Accused?, Battles of the Bible (with Mordechai Gichon) 1978, and numerous articles in foreign and Israeli journals. *Leisure interests:* sailing, writing, broadcasting. *Address:* Zahala, Tel-Aviv, Israel (Home).

HERZOG, George, PH.D.; American anthropologist, linguist, musicologist; b. 11 Dec. 1901, Budapest, Hungary; m. Elizabeth Greenbaum-Herzog 1935-1942; no c.; ed. Hungarian Music Acad., Budapest, High School of Music, Berlin, and Columbia Univ.; Asst., Phonogram Archives, Psychological Inst., Univ. of Berlin 1922-24; Research Assoc., Dept. of Anthropology, Univ. of Chicago 1930-32; in charge Univ. of Chicago Dept. of Anthropology Expedition to Liberia 1930-31; Research Assoc. and Asst. Prof. of Anthropology, Yale Univ. 1932-35; G.S. Guggenheim Memorial Fellow 1935-36 and 1947; Asst. Prof. of Anthropology, Columbia Univ. 1936-48; Consultant, Experimental Div. of Wartime Communications Research, Library of Congress, Washington, D.C. 1942-45; in charge of Archives of Primitive Music, Dept. of Anthropology, Columbia Univ. 1941-48; Fellow, New York Acad. of Sciences, Vice-Pres. 1946-47; Prof. of Anthropology, Indiana Univ. 1948-61. *Publications:* Jabo Proverbs from Liberia (with Charles G. Blooah), The Cow-Tail Switch and Other West African Stories (with others) and over 100 other published items. *Leisure interests:* collecting postal stamps for small-child-clients, drinking beer, playing the piano, talking and talking and talking. *Address:* c/o Holt, Rinehart and Winston, 383 Madison Avenue, New York, N.Y. 10017, U.S.A.

HERZOG, Maurice; French civil servant, businessman and former mountaineer; b. 15 Jan. 1919, Lyon (Rhône); s. of Robert Herzog; m. 1st Comtesse Marie Pierre de Cossé Brissac 1964 (divorced 1976), one s. one d.; m. 2nd Elisabeth Ganifer 1976, one s.; ed. Collège Chaptal, Paris, Faculty of Science, Lyon and Faculty of Law, Paris; Leader, French Himalayan Expedition 1950; fmr. Dir. Kléber-Colombes Soc.; High Commr. for Youth and Sport 1958-63, Sec. of State 1963-66; mem. UN Econ. and Social Council 1966-; mem. Int. Olympic Cttee. 1970-, Chief of Protocol 1975; Deputy, Haute Savoie, Maire de Chamonix; Pres. Financial Comm. Rhône-Alpes Regional Council; Pres., Dir.-Gen. Soc. de Développement de l'Horlogerie, Soc. Atlas Copco (France); Administrator Slivafrance 1966-, Soc. Montrélec 1966-, Jeumont-Industrie 1966-, Maugumière 1966-, Atlas Copco Craelius S.A. 1966-, Serpi (Belgium), Ser; Officier Légion d'honneur; Croix de guerre, and other French and foreign decorations. *Publications:* Annapurna premier 8000, Regards sur L'Annapurna, L'Expédition de l'Annapurna, La Montagne. *Leisure interests:* history, literature, science. *Address:* Assemblée Nationale, 75007 Paris (Office); 21 Boulevard Richard Wallace, 92200 Neuilly S/Seine; La Tournette, Chamonix, Haute Savoie, France (Home). *Telephone:* 297-63-84 (Office); 747-96-11 (Home, Paris).

HERZOG, Paul M., S.B., LL.B., M.A.; American lawyer, university professor and government officer; b. 21 Aug. 1906, New York City; s. of Paul M. and Elsie Lowenstein Herzog; m. 2nd Julie Chamberlain d'Estournelles 1959; one s. one d.; ed. Harvard Univ., Univ. of Wisconsin, Harvard Law School, Columbia Law School; Asst. to Sec. Nat. Labor Board 1933-35; practised law in New York 1936-37; mem. of New York State Labor Relations Board 1937; Chair. New York State Labor Relations Board 1942; Lieut. U.S.N.R. 1944-45; Chair. Nat. Labor Relations Board 1945-53, resigned; Assoc. Dean Graduate School of Public Admin., Harvard Univ. 1953-57; Exec. Vice-Pres. American Arbitration Assn. 1958-, Pres. 1961-63; Pres. Salzburg Seminar in American Studies 1965-71; mem. Cttee. of Experts on Application of Conventions ILO (Geneva) 1956-68; Vice-Pres. American Soc. for Public Admin. 1956-57; mem. New York D.C. and U.S. Supreme Court Bars; Great Medal of Honour (Austria) 1970; Hon. LL.D. (Hobart Coll.) 1959, (Washington Univ.) 1971. *Address:* 14 East 75th Street, New York, N.Y. 10021, U.S.A.

HERZOG, Raymond Harry; American business executive; b. 15 Sept. 1915, Merricourt, N.D.; s. of Harry G. and Mollie Klundt Herzog; m. Jane Cobb 1940; two s. one d.; ed. Lawrence Univ., Appleton, Wis.; Chemist, W. Virginia Coal and Coke Co. 1937-38; Coach and Science Teacher, St. Croix Falls, Wis. 1939-41; joined 3M Company 1941, Gen. Man. Duplicating Products Div. 1956-59, Div. Vice-Pres. 1959-61, Corporate Vice-Pres. 1961-62, Group Vice-Pres. Graphic Systems Group 1963-70, Pres. 1970-75, Chair. and Chief Exec. Officer May 1975-; Chair. Business Equipment Mfrs. Assn. 1971; Dir. Nat. Assn. of Mfrs., First Trust Co. of St. Paul, Jim Walter Co., First Bank System Inc., Northwest Airlines, United Way of St. Paul, U.S.—U.S.S.R. Trade and Econ. Council; Trustee, Univ. of Minnesota Foundation, Lawrence Univ., Minn. Mutual Life Insurance Co.; mem. The Conf. Board. *Leisure interests:* golf, fishing. *Address:* 3M Company, 3M Center, St. Paul, Minn. 55101 (Office); 23 Shady Woods Road, St. Paul, Minn. 55110, U.S.A. (Home). *Telephone:* 733-1240 (Office); 426-2691 (Home).

HERZOG, Werner; German film director; b. 1942; *Films directed:* Signs of Life 1967, Even Dwarfs Started Small 1970, Fata Morgana 1971, The Land of Darkness and Silence 1971, Aguirre Wrath of God 1973, The Enigma of Kaspar Hauser 1974, The Great Ecstasy of Woodcutter Steiner 1974, How Much Wood Would Woodchuck Chuck 1976, Heart of Glass 1976. Stroszek 1976-77, Nosferatu 1979.

HESBURGH, Rev. Theodore M., S.T.D.; American university president; b. 25 May 1917; ed. Univ. of Notre Dame, Gregorian Univ., Rome, and Catholic Univ. of America; ordained priest of Congregation of Holy Cross 1943; joined Univ. of Notre Dame 1945, Head of Theology Dept. 1948-49, Exec. Vice-Pres. of Univ. 1949-52, Pres. 1952-; mem. U.S. Comm. on Civil Rights (Chair. 1969-72), President's Comm. on All-Volunteer Armed Force, Carnegie Comm. on the Future Structure and Financing of Higher Educ., Comm. on the Future of Private and Independent Higher Educ. in New York State, Adlai E. Stevenson Inst. of Int. Affairs; Perm. Rep. of Holy See to Int. Atomic Energy Agency, Vienna 1957; Pres. Int. Fed. of Catholic Univs.; Trustee, Rockefeller Foundation, Chair. Board of Trustees 1977-, Carnegie Foundation for Advancement of Teaching (Pres. 1963-64); Chair. Acad. Council, Ecumenical Inst. for Advanced Theological Studies in Jerusalem; Chair. with rank of Amb. U.S. Del. to UN Conf. on Science and Tech. for Devt. 1977-; fmr. Dir. American Council on Educ.; Dir. Woodrow Wilson Nat. Fellowship Corpn., Nutrition Foundation and other orgs.; Fellow, American Acad. of Arts and Sciences; numerous hon. degrees; Distinguished Service Medal, U.S. Navy; Presidential Medal of Freedom 1964, Jefferson Award 1976. *Publications:* God and the World of Man 1950, Patterns for Educational Growth 1958, Thoughts for Our Times 1962, More Thoughts for Our Times 1965, Still More Thoughts for Our Times 1966, Thoughts IV 1968, Thoughts V 1969, The Humane Imperative: A Challenge for the Year 2000 1974. *Address:* University of Notre Dame, Notre Dame, Ind. 46556, U.S.A. *Telephone:* '219'-283-6383.

HESELTINE, Rt. Hon. Michael Ray; British politician; b. 21 March 1933, Swansea, Wales; s. of Col. Rupert and Eileen Ray Heseltine; m. Anne Edna Harding Williams 1962; one s. two d.; ed. Shrewsbury School, Pembroke Coll., Oxford.; Pres. Oxford Union 1954; Chair. Haymarket Press 1965-70; mem. Parl. for Tavistock 1966-74, for Henley 1974-; Parl. Sec. Ministry of Transport 1970; Parl. Under-Sec. of State, Dept. of the Environment 1970-72; Minister of Aerospace and Shipping 1972-74; Opposition Spokesman for Industry 1974-76, for the Environment 1976-79; Sec. of State for the Environment 1979-. *Address:* House of Commons, Westminster, London, S.W.1.; Thenford House, Thenford, Northants, England.

HESLOP-HARRISON, John, D.SC., F.L.S., F.INST.BIOL., M.R.I.A., F.R.S.E., F.R.S., F.R.S.A.; British professor of plant physiology; b. 10 Feb. 1920, Middlesbrough; s. of Prof. John W. Heslop-Harrison, F.R.S. and Christian Watson Henderson; m. Yolande Massey 1950; one s.; ed. King's Coll., Durham Univ.; mil. service 1942-46; Lecturer King's Coll., Univ. of Durham 1946; Lecturer Queen's Univ., Belfast 1946-50; Lecturer and Reader, Univ. Coll. London 1950-54; Prof. and Head Dept., Queen's Univ., Belfast 1954-60; Mason Prof. and Head Dept., Univ. of Birmingham 1960-67; Brittingham Visiting Prof., Univ. of Wis. 1965; Visiting Scientist, Forest Genetics Research Station, U.S.D.A. Wis. 1968; Prof. Inst. of Plant Devt., Univ. of Wis., Madison 1967-70, Dir. Royal Botanic Gardens, Kew 1971-76; Editor Annals of Botany 1962-67; Visiting Prof. Univ. of

Reading, of Massachusetts, Amherst 1976-77, 1978; Pres. Inst. of Biology, London 1974-75; Royal Soc. Research Prof., Univ. Coll. of Wales, Aberystwyth 1977-; foreign mem. German Acad. of Science 1975, Botanical Soc. of America 1976; Corresp. mem. Royal Dutch Botanical Soc.; Foreign Fellow, Indian Nat. Science Acad. 1974; Samuel Weiner Distinguished Visitor, Univ. of Manitoba, Winnipeg 1976; Croonian Lecturer, Royal Soc. 1974; Hon. D.Sc. (Queen's Univ., Belfast) 1971; Trail-Crisp Medal, Linnean Soc. 1967, Medallist, Univ. of Liège 1967, Gunnar Erdtman Int. Medal for Palynology 1971, Cooke Award, American Acad. of Allergy 1974. *Publications:* research papers, monographic reviews in international journals. *Leisure interests:* painting, hill walking, field botany. *Address:* Welsh Plant Breeding Station, University College of Wales, Plas Gogerddan, nr. Aberystwyth, SY23 3EB, Wales (Office); Old Post, Hatfield, Leominster, Herefordshire, England (Home).

HESS, Gerhard, DR. PHIL.; German university professor; b. 13 April 1907, Loerrach/Baden; s. of Ernst and Clara Hess; m. Eva Schabert 1931; one d.; ed. Basel, Heidelberg and Berlin Univs.; Asst. Prof. Heidelberg Univ. 1941, Prof. 1948, Dean, Philosophical Faculty 1948-49, Rector 1950-51; Pres. Rectors' Conf. 1950-51; Vice-Pres. Assen. of Univ. Profs. 1951-55; Pres. Deutsche Forschungsgemeinschaft 1955-64; Vice-Pres. Alexander von Humboldt-Stiftung 1959-64; mem. Heidelberg Acad. of Sciences 1951-; Chair. Academic Planning Board, Konstanz Univ. 1964-66, Rector, Konstanz Univ. 1966-72; Chair. Acad. Planning Board, Lucerne Univ. 1973-77. *Publications:* Alain in der Reihe der französischen Moralisten 1932, Die französische Philosophie der Gegenwart 1933, Pierre Gassend: der französische Späthumanismus und das Problem von Wissen und Glauben 1939, Die Landschaft in Baudelaires "Fleurs du Mal" 1953, Zur Entstehung der "Maximen" La Rochefoucaulds 1957, Gesammelte Schriften 1938-1966 1967, Die deutsche Universität 1930-1970 1968, Die integrierte Gesamthochschule Konstanz (with C. Schneider) 1970, Die Universität Konstanz 1966-1972: Ein Rechenschaftsbericht 1973; trans. of Leibniz, La Bruyère, de la Fayette. *Leisure interest:* gardening. *Address:* Säntisstrasse 3, 7750 Konstanz, Federal Republic of Germany. *Telephone:* 07531-62515.

HESS, Werner; German broadcasting official; b. 13 Oct. 1914, Frankfurt; s. of Wilhelm Hess; m. Marielies Elbers 1944 (died 1965); studies in evangelical theology, Germanic philology and drama, Univs. of Giessen, Marburg, Jena and Frankfurt/Main; church minister in Frankfurt; military service 1939-45; resumed ministry in Frankfurt-Ginnheim 1945-60; Film Industry Delegate of the Evangelical Church of Germany; mem. since 1948 and Chair. since 1959 of the Broadcasting Council of the Hessian Broadcasting Service; Founder and mem. of the Soc. for the Voluntary Control of the Film Industry; Chair. Supervisory Board of the Matthias Film Distribution Co., Stuttgart; Hessian Broadcasting and Television Service Television Programme Dir. 1960-62, Gen. Dir. 1962-; Chair. ARD (German Broadcasting Service) 1965, 1966, 1976, 1977; Vice-Pres. European Broadcasting Union 1968-76; Chair. European Broadcasting Union Comm. for Developing Countries. *Address:* Hessischer Rundfunk, 6 Frankfurt am Main, Bertramstrasse 8 (Office); 53 Frauenlobstrasse, 6 Frankfurt am Main, Federal Republic of Germany (Home).

HESSELBACH, Walter; German banker and company director; b. 20 Jan. 1915, Frankfurt a.M.; s. of Wilhelm and Elisabeth Hesselbach (née Mayer); m. Hedwig Huth 1953; three d.; ed. Wöhler Realgymnasium; Foreign Dept. of Deutsch-Überseeische Bank, Berlin 1935-37; Merck und Co., Darmstadt 1937-38; Sec. to Georg von Opel 1938-40; military service and prisoner of war 1940-47; Bank Deutscher Länder, Frankfurt a.M. 1947-52; mem. of Board Landeszentralbank in Hessen 1952-58, Bank für Gemeinwirtschaft AG, Frankfurt a.M. 1958-62, Chair. 1962-78; Chair. of Board Bank für Sparanlagen und Vermögensbildung AG, Beteiligungsgesellschaft für Gemeinwirtschaft AG, Frankfurt a.M.; Chair. of Supervisory Board Allgemeine Hypothekenbank AG, Boswau und Knauer AG, Israel Continental Bank Ltd., Tel-Aviv, Internationale Genossenschaftsbank AG, Basel, Bau- und Handelsbank AG, Frankfurt/M; Deputy Chair. Braunschweig-Hannoversche Hypothekenbank, Rheinisch-Westfälische Elektrizitäts-Werke AG, Volksfürsorge AG Insurance Group; mem. Supervisory Board August Thyssen-Hütte AG, Bank für Arbeit und Wirtschaft AG, Vienna, Fried. Krupp GmbH, Salzgitter AG, Ruhrkohle AG, Volkswagen AG; Chair. Man. Board Deutsche Bundespost; mem. Board Deutsche Pfandbriefanstalt, Liquiditäts-Konsortialbank GmbH, Kreditanstalt für Wiederaufbau, Israel European Co. ISROP S.A., Luxembourg; mem. Advisory Board Papierwerke Waldhof-Aschaffenburg AG, Landeszentralbank in Hessen, Neue Heimat Gemeinnützige Wohnungs- und Siedlungsgesellschaft; Pres. Bank Cttee. Int. Co-operative Alliance, London, German-Israel Chamber of Commerce, Lessing Academy; Vice-Pres. German-Israeli Soc.; mem. Board of Govs. Hebrew Univ. of Jerusalem; Dr. h.c. (Univ. of Tel-Aviv, Hebrew Univ. of Jerusalem); Gold Römerplak, City of Frankfurt 1973, Grosses Verdienstkreuz (Fed. Republic of Germany) 1975, Wilhelm-Leuscher-Peak 1976. *Publication:* Die gemeinwirtschaftlichen Unternehmungen 1966, 1971. *Leisure interests:* economics, politics, literature. *Address:* Bank für Gemeinwirtschaft AG, 6 Frankfurt am Main, Mainzer Landstrasse 16-24, Federal Republic of Germany. *Telephone:* 71-211.

HESTER, James McNaughton, D.PHIL.; American university official; b. 19 April 1924, Chester, Pa.; s. of James Montgomery Hester and Margaret (McNaughton) Hester; m. Janet Rodes 1953; three d.; ed. Princeton and Oxford Univs.; Capt., U.S. Marine Corps, Japan 1943-46, 1951-52; Civil Information Officer, Fukuoka Mil. Govt. Team, Japan 1946-47; Rhodes Scholar, Oxford Univ. 1947-50; Asst. to Rhodes Trustees Princeton 1950; Asst. to Pres., Handy Assocs. Inc. (Management Consultants) N.Y. 1953-54; Account Supervisor, Gallup & Robinson Inc. 1954-57; Provost, Brooklyn Center, L.I. Univ. 1957-60, Vice-Pres., Trustee L.I. Univ.; Prof. of History, Exec. Dean Arts and Sciences, Dean Graduate School of Arts and Sciences, N.Y. Univ. 1960-61, Trustee 1962, Pres. 1962-75; Rector, UN Univ., Tokyo 1975-; Dir. Union Carbide Corpn. 1963-, Lehman Corpn. 1964-, J. Walter Thompson Co. 1974-, Bowery Savings Bank 1974-; Chair. Pres. Nixon's Task Force on Priorities in Higher Educ. 1969; mem. Assen. of American Rhodes Scholars 1962-, Japan Soc. 1962-; Pilgrims, U.S. 1963-, Council on Foreign Relations 1962-, Council for Financial Aid to Educ. 1971-75; Trustee Metropolitan Museum of Art, Inst. of Int. Educ. 1963-, Phelps-Stokes Fund 1962-75; Hon. LL.D. (Princeton, Moorehouse Coll., Hofstra Univ., Hahnemann Medical Coll., Fordham); Hon. L.H.D. (Lafayette and Hartwick Colls., Pace Univ., Colgate, Pittsburgh, New York); Hon. D.C.L. (Alfred Univ.); Chevalier, Légion d'honneur 1964. *Address:* 37 Washington Square, West, New York, N.Y. 10003, U.S.A. (Home).

HESTON, Charlton; American actor; b. 4 Oct. 1924, Evanston, Ill.; s. of Russell Carter and Lilla Charlton Heston; m. Lydia Clark 1944; one s. one d.; ed. Northwestern Univ., Evanston; first broadway appearance in Antony and Cleopatra 1948; has starred in more than forty films, Hollywood 1950-; Pres. Screen Actors Guild 1965-71; mem. Nat. Council of Arts 1967; mem. American Film Inst. 1971-, Chair 1973; Acad. Award for Best Actor, Ben Hur 1959. Stage appearances include Macbeth 1954, 1959, 1976 (London), Mister Roberts 1954, Detective Story 1956, A Man for All Seasons 1965. *Films include:* Julius Caesar 1950, Dark City 1950, The Greatest Show on Earth 1952, The Savage 1952, Ruby Gentry 1952, The President's Lady 1953, Pony Express 1953, Arrowhead 1953, Bad for Each Other 1953, The Naked Jungle 1953, Secret of the Incas 1954, The Far Horizons 1955, Lucy Gallant 1955, The Private War of Major Benson 1955, Three Violent People 1956, The Ten Commandments 1956, Touch of Evil 1958, The Big Country 1958, The Buccaneer 1958, Ben Hur 1959, The Wreck of the Mary Deare 1959, El Cid 1961, The Pigeon that Took Rome 1962, Diamond Head 1962, 55 Days at Peking 1962, Major Dundee 1964, The Greatest Story Ever Told 1965, The Agony and the Ecstasy 1965, The War Lord 1965, Khartoum 1966, Counterpoint 1967, Will Penny 1967, Planet of the Apes 1967, Beneath the Planet of the Apes 1969, The Hawaiians 1970, Julius Caesar 1970, The Omega Man 1971, Antony and Cleopatra 1962, Skyjacked 1972, The Call of the Wild 1972, Soylent Green 1973, The Three Musketeers 1973, The Four Musketeers 1974, Earthquake 1974, Airport 1975, Midway 1975, Two Minute Warning 1976, The Last Hard Men 1976, The Prince and the Pauper 1976, Gray Lady Down 1978. *Publication:* The Actor's Life 1979. *Leisure interest:* tennis. *Address:* c/o Thomas and Ford, 8574 Melrose Avenue, Los Angeles, Calif. 90069, U.S.A. *Telephone:* 213-657-5838.

HETHERINGTON, Sir Arthur Ford, Kt., D.S.C., B.A.; British engineer and business executive; b. 12 July 1911; s. of the late Sir Roger Gaskell Hetherington and Lady (Honoria) Hetherington; m. Margaret Lacey 1937; one s. one d.; ed. Highgate School, London, Trinity Coll., Cambridge; Deputy Chair. Southern Gas Board 1956-61, Chair. 1961-64; Chair. East Midlands Gas Board 1964-66; Deputy Chair. Gas Council 1967-72, Chair. 1972-73; Chair. British Gas Corpn. 1973-76, British Standards Inst. 1976-79; Hon. D.Sc. (London) 1974. *Leisure interest:* sailing. *Address:* 32 Connaught Square, London, W.2, England. *Telephone:* 01-723 3128.

HETHERINGTON, (Hector) Alastair, M.A.; British journalist; b. 31 Oct. 1919, Llanishen, Glamorganshire, Wales; s. of late Sir Hector Hetherington and Lady Hetherington; m. Helen Miranda Oliver 1957 (separated 1976); two s. two d.; ed. Gresham's School, Holt, and Corpus Christi Coll., Oxford; served in Royal Armoured

Corps 1940-46; on staff The Glasgow Herald 1946-50; joined (Manchester) Guardian 1950, Foreign Editor 1953, Editor 1956-75, Dir. Guardian Newspapers Ltd. 1967-75; with British Broadcasting Corpn. Oct. 1975-, Controller BBC Scotland 1975-78, Man. BBC Highland 1979-; Fellow, Nuffield Coll., Oxford 1973-; Journalist of the Year, Nat. Press Awards 1970. *Leisure interest:* hill walking. *Address:* BBC Highland, Inverness, IV2 (Office); 12 Kirklee Circus, Glasgow G.12, Scotland (Home).

HETTLAGE, Dr. Karl Maria; German university professor; b. 28 Nov. 1902, Essen; s. of Karl Hettlage and Klara Brandenburg; m. Margarete Brenken 1929; two s. two d.; ed. Univs. of Cologne and Münster; Government Official of Prussian Land 1925-30; Financial Adviser, Cologne city admin. 1930-31; Financial Dept., Berlin city admin. 1931-38; senior bank official 1938-51; Prof. of public Law, Univ. of Mainz 1951-73, Hon. Prof. of Financial Sciences, Univ. of Bonn 1949-; State Sec. Finance Ministry, Fed. German Govt. 1958-62, 1967-69; mem. European Coal and Steel Community (ECSC) High Authority 1962-67, Sciences Council 1965; Pres. IFO Inst. for Econ. Research, Munich. *Leisure interests:* violin, gardening. *Address:* D53 Bonn-Bad Godesberg, Friedrich Ebert-Str. 83, Federal Republic of Germany.

HEUNIS, (Jan) Christiaan, B.A., LL.B.; South African politician; b. 20 April 1927, Uniondale; s. of J. C. Heunis and R. C. M. Lamprecht; m. Alida André van Heerden 1951; four s. one d.; ed. Outeniqua High School, George, Univ. of Stellenbosch; Mem. Prov. Council, George 1959, mem. Exec. Cttee. 1965-70; Chair. Select Cttee. on Public Accounts for Cape Province 1960-64; mem. Parl. for False Bay 1970-74; mem. Select Cttee. on Public Accounts 1970-72; Deputy Minister of Finance and Econ. Affairs 1972-74; mem. Parl. for Helderberg 1974-; Minister of Indian Affairs and of Tourism 1974-75, of Econ. Affairs 1975-,79, of Transport June 1979- of Planning and Environment 1978-. *Leisure interest:* reading. *Address:* Ministry of Transport, Pretoria, Transvaal, South Africa. *Telephone:* 457295.

HEUSINGER, Gen. Adolf Ernst; German army officer and public servant; b. 4 Aug. 1897, Holzminden; s. of Ludwig Heusinger and Charlotte Von Alten; m. Gerda Krüger 1931; two d.; ed. Gymnasium in Holzminden and Helmstedt; Commissioned 1915; entered Reichswehr 1920; posted to Gen. Staff 1930; Company Commdr. 1934-35, Divisional Gen. Staff 1935-37; Gen. Staff Officer 1937-44; arrested July 20th 1944; Military Adviser of German Fed. Govt. 1950; Chair. Joint Chiefs of Staff of German Armed Forces March 1957-61; Chair. NATO Military Cttee. in Perm. Session 1961-64; retd. 1964; Grosses Bundesverdienstkreuz mit Stern und Schulterband. *Publication:* Befehl im Widerstreit (Schicksalstunden der deutschen Armee 1923-45) 1950. *Address:* Bayenthalgürtel, 33A, 5 Köln-Marienburg, Federal Republic of Germany. *Telephone:* Cologne 38-61-16.

HEUSINGER, Bruno, DR.PHIL.; German lawyer; b. 2 March 1900, Holzminden/Weser; s. of Ludwig Heusinger and Charlotte von Alten; m. Sigrid Witte 1933; one s. two d.; ed. Göttingen, Berlin Univs.; served in World Wars I and II; articled 1924; Assessor 1927; County Court Judge 1929; Provincial Court of Appeal Judge 1930, Pres. 1933; Senatspräsident, Provincial Court of Appeal 1935; Pres. Provincial Court of Appeal, Brunswick 1948, Celle 1955; Pres. Federal Supreme Court, Karlsruhe 1960-68; Dr. Iur. h.c.; Hon. Senator Technische Hochschule, Karlsruhe. *Publications:* Servitium Regis in der Deutschen Kaiserzeit 1922, Vom Reichskammergericht 1972, Rechtsfindung und Rechtsfortbildung 1975. *Leisure interests:* history of law, history of art. *Address:* Wachtelweg 9, 31 Celle, Federal Republic of Germany. *Telephone:* 34251.

HEUSINGER, Hans-Joachim; German politician; b. 7 April 1925, Leipzig; m.; three c.; ed. Akad. für Staatsund Rechtswissenschaft, Potsdam-Babelsberg; electrician 1945-51; leading positions in Leipzig and Cottbus State Admin. and in Liberal Democratic Party; Dir. Chamber of Commerce, Cottbus; mem., Sec. Central Exec. Cttee., mem. Political Comm., Liberal Democratic Party 1957, Deputy Chair. LDP 1972-; mem. Volkskammer (People's Chamber) 1961-; Deputy Chair. Council of Ministers, Minister of Justice 1972-; mem. Presidum of Nat. Council of Nat. Front 1974-; Vaterländischer Verdienstorden in bronze and silver, and other decorations. *Address:* Clara-Zetkin-Strasse 93, 108 Berlin, German Democratic Republic.

HEWISH, Antony, PH.D., F.R.S., F.R.A.S.; British radio astronomer; b. 11 May 1924; Fowey, Cornwall; s. of Ernest W. Hewish and Grace F. L. Hewish (née Pinch); m. Marjorie E. C. Richards 1950; one s. one d.; ed. King's Coll., Taunton and Gonville and Caius Coll., Cambridge; war service 1943-46; Research Fellow, Gonville and Caius Coll., Cambridge 1951-54, Supernumerary Fellow 1956-61; Univ. Asst. Dir. of Research 1953-61, Lecturer 1961-69; Fellow, Churchill Coll. Cambridge 1961-; Reader in Radio Astronomy, Univ. of Cambridge 1969-71, Prof. 1971-; Prof. Royal Inst. 1977; Foreign Hon. mem. American Acad. of Arts and Sciences 1970; Hon. Sc.D. (Leicester) 1976, (Exeter) 1977; Hamilton Prize (Cambridge) 1951, Eddington Medal, Royal Astronomical Soc. 1968, Boys Prize, Inst. of Physics 1970, Dellinger Medal, Int. Union of Radio Science, Hopkins Prize, Cambridge Philosophical Soc. 1972, Michelson Medal, Franklin Inst. 1973, Holweck Medal and Prize, Soc. Française de Physique 1974, Nobel Prize for Physics 1974, Hughes Medal. *Publications:* many papers in scientific journals; Editor: Seeing Beyond the Invisible. *Leisure interests:* listening to good music, swimming, sailing. *Address:* Pryor's Cottage, Kingston, Cambridge, England. *Telephone:* Comberton 2657.

HEWITT, Harry Ronald, B.SC.; British chemical engineer and business executive; b. 12 April 1920, Leeds; s. of Charles William and Florence (Kelsey) Hewitt; m. Rosemary Olive Hiscock 1954; two s. one d.; ed. City of Leeds High School, Leeds Coll. of Tech., Bradford Coll. of Tech.; Chemist, Joseph Watson and Sons Ltd., Leeds 1936-41; Royal Ordnance Factories 1941-45; Controller, Control Comm. for Germany 1945-47; Production Man. and Works Man. Consolidated Zinc Ltd. and Orrs Zinc White Ltd. 1947-59; with Johnson Matthey and Co. Ltd. 1959- (Gen. Man., Dir., then Chief Exec.), Man. Dir. 1976-. *Leisure interests:* golf, tennis, flying, music. *Address:* c/o Johnson Matthey and Co. Ltd., 100 High Street, Southgate, London, N14 6ET, England. *Telephone:* 01-882 6111.

HEWITT, William Alexander, A.B.; American manufacturing executive; b. 9 Aug. 1914; ed. Univ of California. With John Deere Plow Co., San Francisco 1948-54, Vice-Pres. 1950-54; Dir. Deere & Co., Moline Ill. 1951-, Exec. Vice-Pres. 1954-55, Pres. 1955-64, Chair. and Chief Exec. Officer 1964-; Dir. Continental Illinois Nat. Bank & Trust Co. of Chicago, Conill Corpn., American Telephone & Telegraph Co., Continental Oil Co., Baxter Travenol Laboratories Inc.; Dir. Nat. Council for U.S.-China Trade, Chair. 1975-78; Dir. U.S.-U.S.S.R. Trade and Econ. Council; mem. The Business Council, American Soc. of Agric. Engineers, The Conf. Board, and many other orgs.; Hon. Trustee, The Wilson Council of the Woodrow Wilson Int. Center for Scholars 1977-, Cttee. for Econ. Devt.; Trustee, U.S. Council Int. Chamber of Commerce; Lieut.-Commdr. U.S.N.R. 1942-46. *Address:* John Deere Road, Moline, Ill. 61265 (Office); 3800 Blackhawk Road, Rock Island Ill. 61201 U.S.A. (Home). *Telephone:* (309) 752-4114 (Office); (309) 788-9200 (Home).

HEY, Donald Holroyde, PH.D., F.R.I.C., F.R.S.; British chemist; b. 12 Sept. 1904, Swansea, Wales; s. of Arthur Hey and Francis Hey (née Baynham); m. Jessie Jones 1931; one s. one d.; ed. Magdalen Coll. School, Oxford and Univ. Coll., Swansea; Lecturer in Chemistry Manchester Univ. 1928-38; Lecturer in Organic Chemistry Royal Coll. of Science, London Univ. 1939-41; mem. Council Chemical Soc. 1940, 1945 and 1961-66, Hon. Sec. 1946-51, Vice-Pres. 1951-54; mem. Council Royal Inst. Chemistry 1944-46 and 1954-57; mem. Chemical Council 1948-50; Dir. of Research, British Schering Research Inst. 1941-45; Prof. Chemistry, King's Coll., London Univ. 1945-50; Daniell Prof. of Chemistry King's Coll. 1950-71; Prof. Emer. Univ. of London 1971-; Asst. Principal King's Coll., London 1962-68; Fellow, King's Coll., London, Imperial Coll., London, Hon. Fellow, Chelsea Coll., London; Pres. Section B, British Assen. for Advancement of Science 1965; Visiting Prof. Univ. of Florida 1967; Hon. Fellow, Intra-Science Research Foundation; Hon. D.Sc. (Wales); Intra-Science Research Foundation Medallist, Santa Monica, Calif. 1968. *Leisure interests:* music, gardening. *Address:* 5 Wrayfield Avenue, Reigate, Surrey, RH2 0NF, England.

HEYERDAHL, Thor, PH.D.; Norwegian anthropologist and explorer; b. 6 Oct. 1914, Larvik; s. of Thor Heyerdahl and Alison Heyerdahl (née Lyng); m. 1st Liv Coucheron Torp 1936, 2nd Yvonne Dedekam-Simonsen 1948; two s. three d.; ed. Univ. of Oslo; specialized in zoology and geography at univ. but changed to anthropology during field researches among Polynesians in Marquesas Is. 1937-38; research in N.W. Indian territory of Brit. Columbia (ref. theory of two separate American Indian movements into Pacific) 1939-40; served free Norwegian Mil. Forces 1941-45; research in Europe and U.S.A. 1945-47; led Kon-Tiki expedition from Callao, Peru to Raroia, Polynesia (covering 4,300 miles in 101 days and thus proving Peruvian Indians could have settled in Polynesia) 1947; founded (with Knut Haughland) Kon-Tiki Museum, Oslo 1949; research and lecturers in Europe and U.S.A. 1948-52; led Norwegian Archaeological Expedition to Galapagos (establishing evidence of pre-European visits by South American Indians), Field Research in Bolivia, Peru and Colombia 1954; led Norwegian Archaeological Expedition to Easter Island and the East Pacific 1955-56; attempted to cross Atlantic in papyrus boat RA I

1969 (covering 2,800 miles in 56 days); sailed from Safi, Morocco, in papyrus boat Ra II May 1970, in attempt to cross Atlantic and prove that ancient Mediterranean civilization could have sailed a reed boat to America, and arrived in Barbados July 1970; led expedition of Sumerian-type reed boat, Tigris, to test navigational capabilities of such ancient craft from Asia to Africa 1977-78; Vice-Pres. World Assen. of World Federalists 1966-; Vice-Pres. Int. Council United World Colls. 1973-; mem. Norwegian 'Acad. of Science 1958; Fellow, New York Acad. of Sciences 1960; Hon. Ph.D. (Oslo) 1961; Commdr. of the Order of St. Olav, Officer Servicio del Mérito Distinguido of Peru 1952, Grande Ufficiale dell' Ordine al Merito della Repubblica Italiana 1965, Order of Merit First Class, Egypt 1971, Grand Officer Royal Alaouites Order, Morocco 1971, and many other awards including Acad. First Award ("Oscar") for Kon-Tiki film 1951; Vega Medal (Swedish Soc. of Anthropology and Geography) 1962, Patron's Gold Medal (Royal Geographical Soc., London) 1964, shared Pahlavi Prize 1978. *Publications:* På Jakt Efter Paradiset 1938, Kon-Tiki Ekspedisjonen (trans. 64 languages) 1948, American Indians in the Pacific: the Theory behind the Kon-Tiki Expedition 1952, Archaeological Evidence of Pre-Spanish Visits to the Galapagos Islands 1956, Aku-Aku: Påskeøoyas Hemmelighet (trans. 32 languages) 1957, Reports of the Norwegian Archaeological Expedition to Easter Island and the East Pacific, (Vol. I Archaeology of Easter Island 1961, Vol. II Miscellaneous Reports 1965) (with E. N. Ferdon), Indianer und Alt-Asiaten im Pazifik 1966, Sea Routes to Polynesia 1968, The Ra Expeditions 1971, Fatuhiva: Back to Nature 1974, Zwischen den Kontinenten 1975, The Art of Easter Island 1975, Early man and the Ocean 1978, The Tigris Expedition 1979, and many articles. *Leisure interest:* travels. *Address:* Colla Micheri, Laigueglia, Italy.

HIBBERD, Sir Donald James, Kt., O.B.E.; Australian business executive; b. 1916, Sydney; s. of late William James Hibberd and late Laura Isabel Hibberd; m. Florence Alice Macandie 1942; one s. one d.; ed. Fort St. Boys' High School, Sydney, Univ. of Sydney; fmrly. First Asst. Sec. Treasury Dept., Canberra; Man. Dir. Comalco Ltd. 1960-69, Chair. 1969-, Chief Exec. 1969-78; Vice-Chair. Queensland Alumina Ltd. 1964-; Chair. Munich Re-insurance Co. of Australia Ltd. 1970-; mem. Board, Reserve Bank 1966-; Council mem. Univ. of Melbourne 1967-; Pres. Australian Mining Industry Council 1972-73. *Leisure interests:* reading, golf. *Address:* Comalco Ltd., 95 Collins Street, Melbourne (Office); 193 Domain Road, South Yarra, Victoria, Australia (Home). *Telephone:* 03-630491 (Office); 03-264037 (Home).

HIBBERT, Sir Reginald Alfred, K.C.M.G.; British diplomatist; b. 21 Feb. 1922, London; m. Ann Alun Pugh 1949; two s. one d.; ed. Queen Elizabeth's Grammar School, Barnet, Worcester Coll., Oxford; war service with Special Operations Executive in Albania, and 4th Queen's Own Hussars in Italy; joined Diplomatic Service 1946, served in Romania, Austria, Guatemala, Turkey, Belgium, and in Foreign Office; Chargé d,Affaires, Resident Mission to Mongolian People's Repub. 1964-66; Counsellor, Office of the Political Adviser to C.-in-C. Far East, Singapore 1967-69, Political Adviser 1969-71; Minister, Bonn Embassy 1972-75, Asst. Under Sec. of State, Foreign and Commonwealth Office 1975-76; Deputy Under-Sec. of State for European Affairs and U.K. Political Dir. in Political Cttee. of the Nine 1976-79; Amb. to France 1979-. *Leisure interests:* gardening, reading, music. *Address:* Frondeg, Pennal, Machynlleth, Powys, Wales: 174 Queen Alexandra Mansions, Bidborough Street, London, W.C.1., England. *Telephone:* 065-475-220 (Wales); 01-837 2695 (London).

HICKEL, Walter Joseph; American government official; b. 18 Aug. 1919, Claflin, Kansas; s. of Robert A. Hickel and Emma Zecha (German descent); m. 1st Janice Cannon 1941 (deceased 1943), 2nd Ermalee Strutz 1945; six s.; ed. High School, Claflin, Kansas, builder, developer, and civic leader 1946-; started building homes, then built, operated and developed rental units, residential areas and hotels; operates inns, hotels and shopping centres in Alaska; mem. Republican Nat. Cttee. for State of Alaska 1954-64; Gov. of Alaska 1967-69; Sec. of U.S. Dept. of Interior 1969-70; mem. Board of Regents Gonzaga Univ., Salk Inst.; mem. World Advisory Council Int. Design Science Inst.; Dir. Western Airlines; Chair. Nat. Science Inst.; Dir. Western Airlines; Chair. Nat. Science Foundation panel on Geothermal Power; Kansas Golden Gloves Welterweight Championship 1938; Hon. LL.D. (St. Mary of the Plains Coll. 1970, St. Martin's Coll. 1971, Maryland 1971, Adelphi Univ. 1971, San Diego 1972, Rensselaer Polytechnic Inst. 1973, Alaska 1976); Hon. D.Eng. (Stevens Inst. of Tech. at Hoboken 1970, Mich. Technological Univ. 1973); Hon. Dr. of Public Admin. (Willamette Univ. 1971); Alaskan of the Year 1969; Horatio Alger Award, New York 1972; Certificate of Award for Best Non-Fiction Book, Who Owns America?, Alaska Press Club 1972. *Publication:* Who Owns America? *Leisure interests:* reading, boating, hiking, riding. *Address:* 1905 Loussac Drive, Anchorage, Alaska 99503, U.S.A. *Telephone:* (907) 276-7400.

HICKS, Sir Denys, Kt., O.B.E.; British solicitor; b. 2 May 1908, Bristol; s. of Cuthbert C. and Alice M. (née Hodder) Hicks; m. Irene Elizabeth Mansell (née Leach); four d.; ed. Clifton Coll.; solicitor 1931; mem. Council, Law Soc. 1948-69, Vice-Pres. 1959, Pres. 1960; mem. Council Int. Bar Assen. 1960, Chair. 1966-70, Pres. 1970-74, Hon. Life Pres. 1974-; Hon. mem. American Bar Assen., El Ilustre y Nacional Colegio de Abogados de México, Virginia State Bar Assen. 1966; mem. Royal Comm. on Assizes and Quarter Sessions 1966-69; Deputy Chair. Horserace Betting Levy Board 1961-76; company dir.; D.L. (County of Avon). *Leisure interest:* gardening. *Address:* Damson Cottage, Hunstrete, Pensford, Bristol, BS18 4NY, England. *Telephone:* Compton Dando 464.

HICKS, Sir Edwin William, Kt. C.B.E.; Australian civil servant and diplomatist; b. 9 June 1910, Melbourne, Victoria; s. of late William Banks Hicks and Elsie May Hicks (née Kitching); m. 1st Jean MacPherson 1937 (died 1959), 2nd Lois Swindon 1961; five s. two d.; ed. Haileybury Coll., Melbourne Grammar School and Canberra Univ. Coll.; joined Commonwealth of Australia Public Service 1929; Royal Australian Air Force, S.W. Pacific 1942-45; Sec. Australian Dept. of Air 1951-56, Dept. of Defence 1956-68; Australian High Commr. in New Zealand 1968-71; Dir-Gen. Australia-Britain Soc. 1972. *Leisure interests:* golf, gardening, tennis. *Address:* 73 Endeavour Street, Red Hill, A.C.T. 2603, Australia. *Telephone:* 957378.

HICKS, Granville, A.M.; American writer; b. 9 Sept. 1901; m. Dorothy Dyer 1925; one d.; ed. Harvard Univ.; Instructor, Smith Coll. 1925-28; Asst. Prof. of English, Rensselaer Polytechnic Inst. 1929-35; mem. Editorial staff New Masses 1934-39; Counsellor in American Civilization, Harvard Univ. 1938-39; staff mem. radio programme "Speaking of Books" 1941-43; Dir. Yaddo Corpn. 1942-; Lecturer at Pacific North-west Writers' Conf. 1948; Literary Editor New Leader 1951-58; Instructor, New School for Social Research 1955-58; Berg Prof. of American Literature, New York Univ. 1959; Contributing Editor Saturday Review 1958-59; Visiting Prof. Syracuse Univ. 1960; McGuffey Prof. American Literature, Ohio Univ. 1967-68. *Publications:* The Great Tradition—an Interpretation of American Literature since the Civil War 1933, 1935, One of Us (with Lynd Ward) 1935, John Reed— the Making of a Revolutionary 1936, I Like America 1938, Figures of Transition 1939, co-editor Proletarian Literature in the United States 1935, The Letters of Lincoln Steffens (with Ella Winter) 1938, The First to Awaken (with Richard M. Bennett) 1940, Only One Storm 1942, Behold Trouble 1944, Small Town 1946, There Was a Man in Our Town 1952, Where We Came Out 1954, The Living Novel (editor) 1957, Part of the Truth: An Autobiography 1965, James Gould Cozzens 1967, Literary Horizons 1970, Granville Hicks in the New Masses 1973. *Address:* Grafton, N.Y. 12082, U.S.A. (Home).

HICKS, Henry Davies, C.C., Q.C., M.A., B.C.L.; Canadian barrister, politician and educator; b. 5 March 1915, Bridgetown, N.S.; s. of Henry Brandon Hicks and Annie May Kinney; m. 1st Paulene Agnes Banks (died 1964), two s. two d.; 2nd Margaret Gene MacGregor Morison 1965; ed. Mount Allison Univ., Dalhousie, and Exeter Coll., Oxford (Rhodes Scholar); admitted to Nova Scotia Bar 1941; served Royal Canadian Artillery 1941-45; practised law, Bridgetown 1946-50; mem. Nova Scotia Legislature 1945-60; first Minister of Educ. 1949-55, Provincial Sec. 1954-56; Premier of Province of Nova Scotia 1954-56, Leader of Her Majesty's Loyal Opposition in Nova Scotia Legislature and leader, Nova Scotia Liberal Party 1956-60; Pres. Canadian Nat. Comm. for UNESCO 1963-67; Dean of Arts and Science, Dalhousie Univ. 1960-61, Vice-Pres. 1961-63, Pres. and Vice-Chancellor 1963-; apptd. to Canadian Senate 1972; Canadian del. to 28th Gen. Assembly of UN 1973; Assen. of Univs. and Colls. of Canada rep. on Board of Govs. Univ. of Guyana; Hon. D.Ed., Hon. D.C.L., Hon. LL.D. *Leisure interests:* salmon fishing, philately. *Address:* 6446 Coburg Road, Halifax, Nova Scotia, Canada. *Telephone:* 424-2511 (Office); 422-5575 (Home).

HICKS, Sir John Richard, Kt.; British economist; b. 8 April 1904, Warwick; s. of Edward Hicks; m. Ursula Kathleen Webb 1935; ed. Clifton Coll. and Balliol Coll., Oxford; Prof. of Political Economy, Univ. of Manchester 1938-46; Fellow of Nuffield Coll. Oxford 1946-52; Prof. of Political Economy, Univ. of Oxford 1952-65; Research Fellow, All Souls Coll. Oxford 1965-71; Nobel Memorial Prize for Economics 1972 (with K. Arrow, *q.v.*); Hon. D.Sc. (Bristol) 1976. *Publications:* Theory of Wages 1932, Value and Capital 1939, The Social Framework 1942, Contribution to the Theory of the Trade Cycle 1950, A Revision of Demand Theory 1956, Essays in

World Economics 1959, Capital and Growth 1965, Critical Essays in Monetary Theory 1967, A Theory of Economic History 1969, Capital and Time 1973, The Crises in Keynesian Economics 1974, Economic Perspectives 1977. *Address:* All Souls College, Oxford, England.

HIDAYATULLAH, Mohammed, O.B.E., M.A.; Indian judge; b. 17 Dec. 1905, Betul; s. of H. M. Wilayatullah and Mohammadi Begum; m. Pushpa Shah 1948; one s. one d. (deceased); ed. Government High School, Raipur, Morris Coll., Nagpur, Trinity Coll., Cambridge, and Lincoln's Inn, London; Advocate, Nagpur High Court 1930-46; Advocate-Gen. Madhya Pradesh 1943-46; Puisne Judge 1946-54; Dean of Faculty of Law, Nagpur Univ. 1949-53; Chief Justice, Nagpur High court 1954-56; Chief Justice, Madhya Pradesh High Court 1956-58; Judge, Supreme Court of India 1958-68; Chief Justice of India 1968-70; Acting Pres. of India 1969; Hon. Bencher, Lincoln's Inn, London; Mitchell Fellow, State Univ. of N.Y., Buffalo; Hon. LL.D. (Univ. of the Philippines, Ravishankar Univ., Rajasthan Univ. 1975); Bronze Medal for Gallantry 1969, Order of the Yugoslav Flag with Sash 1971, Knight of Mark Twain. *Publications:* Democracy in India and the Judical Process, The South-West Africa Case, Mulla's Mahomedan Law (editor, 18th edn.), A Judge's Miscellany, U.S.A. and India. *Leisure interests:* golf, bridge, reading. *Address:* A-10 Rockside, 112 Walkeshwar Road, Bombay 400006, India.

HIGGINS, Michael Harold, M.A.; British international administrator; b. 3 Oct. 1908, London; s. of Harold and Gertrude Higgins; m. Moira Walker 1941; two s. two d.; ed. London, Edinburgh and Cambridge Univs.; Asst. Lecturer, Edinburgh and London Univs. 1937-45; attached to Air Ministry 1940-45; Deputy Commandant, Royal Observer Corps 1941-42; Private Sec. to Vice-Chief of Air Staff 1942-45; Asst. to Pres. of Council, Int. Civil Aviation Organisation 1945-49; Deputy Dir. UN Transport and Communications Division, New York 1949; mem. Mudaliar UN Staff Selection Cttee., New York 1952, Bangkok 1953, UN Staff Selection Board, New York 1953-57, Geneva 1954-55, Bangkok 1956, UN Joint Pension Board 1956-57, UN Appointment Review and Promotion Board 1957-; Sec. Preparatory Cttee., Inter-Govt. Maritime Consultative Organisation 1958-59, Exec. Sec. 1st Assembly, London 1959, Dir. of Admin. and External Relations, IMCO 1959-63, Admin. and Financial Services, UN Office, Geneva 1963-69; Consultant, Fed. of Int. Civil Servants' Asscns. 1969-74, Admin. Int. Assen. of Conf. Interpreters 1971-. *Address:* Association Internationale des Interprètes de Conférence, 14 rue de l'ancien port, Geneva, Switzerland (Office); Mill Vale House, Bratton, Nr. Westbury, Wilts., England. (Home). *Telephone:* 32-27-54 (Office).

HIGGINSON, John, M.D., F.R.C.P.; American professor of pathology; b. 16 Oct. 1922, Belfast, N. Ireland; s. of William Higginson and Ellen Margaret Rogers; m. Nan Russell McKee 1949; two d.; ed. Royal Belfast Academical Inst., Belfast, and Univ. of Dublin; Pathologist, S. African Inst. for Medical Research, Baragwanath Hosp., S. Africa 1950-58; Head, Geographical Pathology Unit and Cancer Registry, S. African Inst. for Medical Research 1954-58; Assoc. Prof. of Pathology and Oncology, Univ. of Kansas Medical Center 1958-62; American Cancer Soc. Career Professorship, Univ. of Kansas 1961-66; Prof. of Pathology, Univ. of Kansas Medical Center 1962-66; Dir. Int. Agency for Research on Cancer, Lyons, France 1966-; Hon. Fellow Royal Acad. of Medicine in Ireland, etc. *Publications:* over 150 scientific papers in field of environmental biology and cancer research. *Address:* International Agency for Research on Cancer, 150 Cours Albert Thomas, 69372 Lyon, France. *Telephone:* (78) 75-81-81.

HIGHET, Hon. David Allan; New Zealand chartered accountant, business executive and politician; b. 27 May 1913, Dunedin; s. of David Highet and Elsie M. Bremner; m. 1st Margaret P. Hoyles 1938; one s. one d.; m. 2nd Shona McFarlane 1976; ed. Otago Boys' High School and Otago Univ.; practised as chartered accountant, Wellington 1942-60; Gen. Man. L. J. Fisher & Co. Ltd., Auckland 1960-64; Senior Partner, Cox, Ellife, Twomey, Highet & Co. (Chartered Accountants), Auckland 1964-; Wellington City Councillor 1954-59; mem. Parl. for Remuera 1966-; Minister of Internal Affairs, of Local Govt., of Civil Defence and Assoc. Minister of Social Welfare Feb.-Nov. 1972, of Internal Affairs, of Local Govt., of Civil Defence, of Recreation and Sport, for the Arts Dec. 1975-; Nat. Party. *Leisure interests:* music, theatre, golf, tennis, bowls, travel. *Address:* 28 Burwood Crescent, Remuera, Auckland, New Zealand. *Telephone:* 549-507.

HIGHTOWER, John B.; American museum director; b. 1933, Atlanta, Georgia; m. Caroline Warner 1963; one s. one d.; ed. Yale Univ.; Exec. trainee, First Nat. City Bank 1957-61; Gen. Asst. to Pres. and Publisher, American Heritage Publishing Co. 1961-64; Exec. Dir. New York State Council on the Arts 1964-70; Dir. Museum of Modern Art, New York 1970-72; Pres. Assoc. Councils of Arts, New York 1972-74; Pres. South St. Seaport 1977-; frequent adviser to arts councils throughout U.S.A., Cultural Adviser to Presidential Latin American Comm. 1969; Founder and Chair., Advocates for the Arts 1974-77; Instructor, Arts Man., Wharton School 1976-77, New School 1976-77; Chair. Planning Corpn. for the Arts; N.Y. State Award 1970. *Address:* 333 Central Park West, New York, N.Y. 10025, U.S.A. (Home).

HILALY, Agha, M.A., S.PC.; Pakistani diplomatist; b. 20 May 1911, Bangalore; s. of late Agha Abdulla; m. Malek Taj Kazim 1938; three s.; ed. Madras and Cambridge Univs.; entered Civil Service 1936; apptd. Under-Sec. to Finance Ministry, Govt. of Bengal; transferred to pre-partition Govt. of India and served as Under-Sec. in Ministries of Agriculture, Food and Commerce 1941-47; Deputy Sec. Pakistan Foreign Ministry 1947-51, Joint Sec. 1951-54; attended several Int. Confs. as Sec.-Gen. of Pakistan dels.; Amb. to Sweden, Norway, Denmark and Finland 1956-59, to U.S.S.R. (concurrently Minister to Czechoslovakia) 1959-61; High Commr. in India and Amb. to Nepal 1961-63; High Commr. in U.K. and Amb. to Repub. of Ireland 1963-66; Amb. to U.S.A. (concurrently to Mexico, Venezuela and Jamaica) 1966-71; mem. Board of Dirs. State Bank of Pakistan 1972-; Chair. Board of Govs. Pakistan Inst. of Strategic Studies 1973-; Hilal-i-Quaid-i-Azam, Grand Cross of Order of Northern Star (Sweden), Grand Cross of Order of Gurkha (Nepal). *Leisure interests:* photography, hunting. *Address:* 48 Fifteenth Street, Phase 5, Defence Housing Society, Karachi 6, Pakistan. *Telephone:* 530633 (Home).

HILBE, Alfred J., DR.ECON.; Liechtenstein politician; b. 22 July 1928, Gmunden, Austria; s. of Franz and Elisabeth (née Glatz) Hilbe; m. Virginia Joseph 1951; one d.; ed. classical secondary schools in Vaduz and Zurich, Ecole Nationale des Sciences Politiques, Paris and Univ. of Innsbruck; several posts in private business 1951-54; in foreign service 1954-65, Counsellor, Liechtenstein Embassy, Berne until 1965; Deputy Head of Govt. of Liechtenstein 1965-70, Head of Govt. 1970-74; Financial Consultant 1974-; Grosskreuz of Liechtenstein Order of Merit, Grosses Silbernes Ehrenzeichen Am Bande Republik Austria 1975, Order of St. Gregory (Vatican); Fatherland Union Party. *Leisure interests:* skiing, tennis, photography. *Address:* FL-9494 Schaan, Garsill 11, Principality of Liechtenstein. *Telephone:* 075-22002 (Home); 25566 (Office).

HILDEBRAND, Joel Henry, PH.D.; American emeritus professor of chemistry; b. 16 Nov. 1881, Camden, N.J.; s. of Howard O. Hildebrand and Sarah S. Hildebrand; m. Emily Alexander 1908; three s. one d.; ed. Univ. of Pennsylvania and Berlin Univ.; Instructor in Chemistry Univ. of Pa. 1907-13; Asst. Prof. of Chemistry Univ. of Calif. 1913; Assoc. Prof. 1917, Prof. 1918-52; Dean of Coll. of Letters and Science 1939-43; Dean Coll. of Chemistry 1949-51; Faculty Research Lecturer 1936; Commissioned Capt. U.S. Army 1917; Lieut.-Col. Chemical Warfare Service 1918; awarded D.S.M. 1918; Liaison Officer for Office of Scientific Research and Development, U.S. Embassy, London 1943-44, King's Medal (U.K.); Pres. American Chemical Soc. for 1955; Westman Lecturer, Chemistry Inst. of Canada 1957; Gilbert Newton Memorial Lecture, Berkeley 1971; Hildebrand 90th Birthday Symposium 1971; American Chemical Soc. Centennial Lecture 1976; Hon. Fellow, Royal Soc., Edinburgh, Nat. Acad. Sciences, American Philosophical Soc.; Hon. mem. American Inst. of Chemists, Calif. Acad. of Sciences; Hon. Life mem. Faraday Soc.; Nichols Medal 1939; American Chemical Soc. Award in Chemical Educ. 1952; Gibbs Medal 1953, Jas. F. Norris Award in Chemical Educ. 1961, Wm. Proctor Prize, Scientific Research Soc. of America 1962, Priestly Medal 1962 (American Chemical Soc.), Joseph Priestly Award 1965, Hildebrand Hall Laboratory, Univ. of Calif., Berkeley dedicated in honour 1966, Madison Marshall Award 1967; S. C. Lind Lectures 1974. *Publications:* Principles of Chemistry (with R. M. Powell) 1952, 1964, Solubility of Non-Electrolytes (with R. L. Scott) 1950, Reference Book for of Inorganic Chemistry (with W. M. Latimer) 1951, Science in the Making 1956, Regular Solutions (with R. L. Scott) 1962, Is Intelligence Important? 1963. An Introduction to Molecular Kinetic Theory 1963, Regular and Related Solutions (with J. M. Prausnitz and R. L. Scott) 1970, Viscosity and Diffusivity (monograph) 1977; 275 papers. *Leisure interests:* Baroque music, gardening, formerly skiing, mountaineering photography, grandchildren and great grandchildren. *Address:* Department of Chemistry, University of California, Berkeley, Calif. 94720 (Office); 500 Coventry Road, Berkeley, Calif. 94707, U.S.A. (Home). *Telephone:* (415) 525-2131.

HILDESHEIMER, Wolfgang; German writer and artist; b. 9 Dec. 1916, Hamburg; s. of Dr. Arnold Hildesheimer and Hanna Hildesheimer (née Goldschmid); m. Silvia Dillmann 1953; ed. Oden-

waldschule, Heppenheim, Germany, Frensham Heights School, Surrey, England, and Central School of Arts and Crafts, London; British Information Officer, Palestine 1943-45; Lecturer, British Inst., Tel-Aviv 1945-46; interpreter, War Crimes Trials, Nuremberg 1947-49; now freelance writer and artist; guest lecturer in Poetry at Frankfurt Univ. 1967; mem. Akademie der Künste Berlin; corresp. mem. Deutsche Akademie für Sprache und Dichtung; Radio Play Prize in aid of War Blinded 1955; Literaturpreis der Freien Hansestadt Bremen 1966; George Büchner Preis der Deutschen Akad. für Sprache und Dichtung, Darmstadt 1966. *Publications include:* Lieblose Legenden (short stories) 1952, Die Verspätung 1962 (play), Nachtstück (one-act play) 1963, Tynset (novel) 1965, Rivalen (adaptation from Sheridan) 1965, Wer war Mozart? (essay), Mary Stuart (play), Masante (novel) 1973, Mozart (biography) 1977. *Address:* 7742 Poschiavo (GR), Switzerland. *Telephone:* (082) 50467.

HILDRED, Sir William Percival, Kt., C.B., O.B.E., M.A., F.R.S.A.; British international administrator; b. 13 July 1893, Hull, Yorks.; s. of William Kirk Hildred and Clara Varley; m. Constance Mary Chappell 1920; two s. one d.; ed. Univ. of Sheffield; served First World War 1914-18; lectured Social History for Workers' Educational Assen. Univ. of Sheffield 1918; entered Treasury 1919; Finance Officer Empire Marketing Board 1926-34; Head Special Measures Branch Ministry of Agriculture and Fisheries 1934-36; Deputy Gen. Man. Exports Credit Guarantee Dept. 1936-38; Deputy Dir.-Gen. of Civil Aviation March 1938-39; Principal Asst. Sec. in Air Ministry 1939-40; with Ministry of Aircraft Production 1940-41; Dir.-Gen. Min. of Civil Aviation 1941-46; Dir.-Gen. Int. Air Transport Assen. (IATA) 1946-66; Hon. LL.D. (Sheffield and McGill), Hon. F.R.Ae.S.; Grand Officer Order of Orange-Nassau (Neths.) 1946, Commdr. Order of the Crown of Belgium 1948; Warner Gold Medal of ICAO. *Leisure interests:* reading, writing, music, carpentry, cycling. *Address:* Spreakley House, Frensham, Surrey, England. *Telephone:* Frensham 2330.

HILDREW, Bryan, C.B.E., M.SC., D.I.C.; British engineer; b. 19 March 1920, Sunderland, County Durham (now Tyne and Wear); s. of Alexander William and Sarah Jane Hildrew; m. Megan Kathleen Lewis; two s. one d.; ed. Bede Collegiate School, Sunderland, Sunderland Tech. Coll., City and Guilds Coll., London Univ.; Principal Surveyor Engineering Investigations, Lloyds Register of Shipping 1961-65, Deputy Chief Engineer Surveyor 1965-67, Chief Engineer Surveyor 1967-70, Tech. Dir. 1970-77, Man. Dir. 1977-; mem. Cttee. on Offshore Safety 1978-. *Leisure interests:* walking, orienteering. *Address:* 8 Westholme, Orpington, Kent. BR6 0AN, England.

HILGARD, Ernest Ropiequet, PH.D.; American professor of psychology and education; b. 25 July 1904, Belleville, Ill.; s. of Dr. George E. Hilgard and Laura Ropiequet Hilgard; m. Josephine Rohrs 1931; one s. one d.; ed. Univ. of Illinois and Yale Univ.; Instructor in Psychology, Yale Univ. 1928-33; Asst. Prof. to Prof., Psychology and Educ., Stanford Univ. 1933-69, Exec. Head, Dept. of Psychology 1942-51, Dean of Graduate Div. 1951-55, Emer. Prof. of Psychology and Educ. 1969-; Past Pres. American Psychological Assen.; mem. Nat. Acad. of Sciences, Nat. Acad. of Educ., American Philosphical Soc., American Acad. of Arts and Sciences; Hon. Fellow, British Psychological Assen.; Hon. D.Sc. (Kenyon Coll.) 1964, Hon. LL.D. (Centre Coll.) 1974; Warren Medal, Distinguished Scientific Contribution Award, Gold Medal, American Psychological Foundation. *Publications:* Conditioning and Learning 1940, Theories of Learning 1948, 1956, 1966, 1975, Introduction to Psychology 1953, 1957, 1962, 1967, 1971, 1975, 1979, Hypnotic Susceptibility 1965, Hypnosis in the Relief of Pain 1975, divided Consciousness 1977, American Society in Historical Perspective 1978; and articles in professional journals. *Address:* Department of Psychology, Stanford University, Stanford, Calif. 94305, (Office); 1129 Hamilton Avenue, Palo Alto, Calif. 94301, U.S.A. (Home). *Telephone:* (415) 497-4441 (Office).

HILL, Sir Austin Bradford, Kt., C.B.E., PH.D., D.SC., F.R.S.; British university professor; b. 8 July 1897, London; s. of Sir Leonard Hill and Janet Alexander; m. Florence Maud Salmon 1923; two s. one d.; ed. Chigwell School; and London Univ.; Research worker for Industrial Health Research Board and Medical Research Council 1923-32; London Univ. Reader in Epidemiology and Vital Statistics at the London School of Hygiene and Tropical Medicine 1932-45, Prof. of Medical Statistics 1945-61; Hon. Dir. Statistical Research Unit of Medical Research Council 1945-61; Pres. Royal Statistical Soc. 1950-52, Gold Medallist, Royal Statistical Soc. 1953; Hon. Fellow, American Public Health Assen. 1953, Royal Soc. of Medicine 1962; Fellow, Univ. Coll., London 1955; Hon. Fellow, Soc. of Occupational Medicine 1957, Soc. of Social Medicine 1961, Royal Coll. of Physicians 1963, Faculty of Community Medicine 1973, Soc. of Community Medicine 1963-, London School of Hygiene and Tropical Medicine 1976; Hon. mem. Inst. of Actuaries 1956, Faculty of Medicine, Univ. of Chile 1959, Int. Epidemiological Assen. 1971; Hon. D.Sc. (Oxford) 1963, Hon. M.D. (Edinburgh) 1968; Galen Medal, Soc. of Apothecaries 1959, Harben Gold Medal, Royal Inst. of Public Health and Hygiene 1961, Heberden Medal 1965, Jenner Medal of Royal Soc. of Medicine 1965. *Publications:* Statistical Methods in Clinical and Preventive Medicine 1962, A Short Text Book of Medical Statistics (10th edition of Principles of Medical Statistics) 1977. *Leisure interests:* gardening, travelling. *Address:* Green Acres, Little Kingshill, Great Missenden, Bucks., England. *Telephone:* Great Missenden 2380.

HILL, Christopher (*see* Hill, (John Edward) C.)

HILL, George Roy, B.A.; American film and theatre producer and director; b. 21 Dec. 1923, Minneapolis, Minn.; s. of George Roy and Helen (Owens) Hill; m. Louisa Horton 1951; two s. two d.; ed. Yale Univ. and Trinity Coll., Dublin; Directed first stage production Biography, Gate Theatre, Dublin 1948, other productions include: Look Homeward, Angel 1957, The Gang's All Here 1959, Greenwillow, Period of Adjustment 1960, Moon on a Rainbow Shawl 1962, Henry, Sweet Henry 1967; directed first film 1962, other films include: Period of Adjustment 1963, Toys in the Attic 1963, The World of Henry Orient 1964, Hawaii 1966, Thoroughly Modern Millie 1967, Butch Cassidy and the Sundance Kid 1969, Slaughterhouse-Five 1972, The Sting 1973, The Great Waldo Pepper 1975, Slap Shot 1976, A Little Romance 1979; first television production 1954, other productions include: A Night to Remember, Helen Morgan, Child of our Time, Judgement at Nuremberg; Academy Award (The Sting) 1973. *Address:* 27580 Winding Way, Malibu, Calif. 90265, U.S.A.

HILL, John Alexander; American business executive; b. 24 Feb. 1907, Shawnee, Okla.; s. of John E. Hill and Mary B. Cheek; m. Margaret Mikesell 1929; one s. two d.; ed. Univ. of Denver; Aetna Life Insurance Co. 1928-70, Denver 1928-30, Man. Group and Pensions Depts., Detroit 1930-35, District Supervisor 1933-36, Gen. Agent, John A. Hill & Assocs., Toledo 1936-58, Senior Vice-Pres. 1958-62, Pres. 1962-70, Pres. Hospital Corpn. of America 1970-74, Chair. 1974-; Dir. of several cos. *Leisure interests:* golf, art. *Address:* Hospital Corporation of America, 1 Park Plaza, Nashville, Tenn. 37202 (Office); Belle Meade Towers Apartments, 105 Leake Avenue, Nashville, Tenn., U.S.A. (Home).

HILL, (John Edward) Christopher, M.A., D.LITT.; British historian; b. 6 Feb. 1912, York; s. of Edward H. and Janet A. Hill; m. 1st Inez Waugh 1944, 2nd Bridget Irene Sutton 1956; one s. two d.; ed. St. Peter's School, York, and Balliol Coll., Oxford; Fellow of All Souls Coll., Oxford 1934-38; Asst. Lecturer, Univ. Coll., Cardiff 1936-38; Fellow and Tutor in Modern History, Balliol Coll., Oxford 1938-65, Master of Balliol Coll. 1965-78; Army and foreign Office Service 1940-45; Univ. Lecturer in 16th and 17th Century History, Oxford 1959-65; mem. Editorial Board Past and Present 1952-68, Yale Edition of Milton's Complete Prose; Fellow of British Acad. 1966; Hon. D.Litt. (Bristol, Glasgow, Hull, Norwich and Sheffield); Shared Heinemann Award for Books 1978. *Publications:* The English Revolution, 1640 1940, Lenin and Russian Revolution 1947, The Good Old Cause (documents, edited jointly with E. Dell) 1949, Economic Problems of the Church 1956, Puritanism and Revolution 1958, The Century of Revolution 1603-1714 1961, Society and Puritanism in Pre-Revolutionary England 1964, Intellectual Origins of The English Revolution 1965, Reformation to Industrial Revolution 1967, God's Englishman 1970, Antichrist in 17th Century England 1971, The World Turned Upside Down 1972, The Law of Freedom and Other Selected Writings of Gerrard Winstanley (editor) 1973, Change and Continuity in 17th Century England 1975, Milton and the English Revolution 1977. *Address:* Woodway House, Sibford Ferris, Banbury, Oxon., England.

HILL, Sir John McGregor, Kt., B.SC., PH.D., F.INST.P., F.I.CHEM.E.; British atomic energy official; b. 21 Feb. 1921; ed. Richmond County Grammar School, King's Coll., London, and St. John's Coll., Cambridge; Flight Lieut., R.A.F., Second World War; research at Cavendish Laboratory, Cambridge 1946-48; Lecturer, London Univ. 1948-50; U.K. Atomic Energy Authority 1950-, mem. for Produciton 1964-67, Chair. 1967-; Chair. British Nuclear Fuels Ltd. 1971-, Radiochemical Centre Ltd. 1975-; mem. Energy Comm. Dept. of Energy 1978-; Foreign Assoc. Mem., Nat. Acad. of Engineering of the U.S.A. 1976. *Address:* United Kingdom Atomic Energy Authority, 11 Charles II Street, London, S.W.1, England.

HILL, Terrell Leslie, PH.D.; American biophysicist and chemist; b. 19 Dec. 1917, Oakland, Calif.; s. of George Leslie and Ollie Moreland Hill: m. Laura Etta Gano 1942; one s. two d.; ed. Univ. of California at Berkeley and Harvard Univ.; Instructor in Chem.,

Western Reserve Univ. 1942-44; Research Assoc., Radiation Lab., Univ. of Calif. at Berkeley 1944-45; Research Assoc. in Chem., then Asst. Prof. of Chem., Univ. of Rochester 1945-49; Chemist, U.S. Naval Medical Research Inst. 1949-57; Prof. of Chem., Univ. of Oregon 1957-67; Prof. of Chem., Univ. of Calif. at Santa Cruz 1967-71, Vice-Chancellor, Sciences 1968-69, Adjunct Prof. of Chem. 1977-; Senior Research Chemist, Nat. Insts. of Health 1971-; mem. Nat. Acad. of Sciences, American Chemical Soc., Biophysical Soc., American Civil Liberties Union, Nat. Assn. for Advancement of Coloured People, etc.; Guggenheim Fellow, Yale 1952-53; Sloan Foundation Fellow 1958-62; Arthur S. Flemming Award, U.S. Govt. 1954; Dist. Civilian Service Award, U.S. Navy 1955; Award of Washington Acad. of Sciences 1956; Kendall Award, American Chemical Soc. 1969. *Publications:* Statistical Mechanics 1956, Statistical Thermodynamics 1960, Thermodynamics of Small Systems Vol. I 1963, Vol. II 1964, Matter and Equilibrium 1965, Thermodynamics for Chemists and Biologists 1968, Free Energy Transduction in Biology 1977; also research papers. *Leisure interests:* tennis, chess, poetry, music. *Address:* National Institutes of Health, Bethesda, Md. 20014 (Office); 9626 Kensington Parkway, Kensington, Md. 20795, U.S.A. (Home). *Telephone:* (301) 496-5436 (Office); (301) 946-7978 (Home).

HILL OF LUTON, Baron (Life Peer), cr. 1963; **Charles Hill,** P.C., M.A., M.D., D.P.H., LL.D.; British doctor and politician; b. 15 Jan. 1904; ed. St. Olave's Grammar School, Trinity Coll., Cambridge, and the London Hospital; Univ. Tutorial Lecturer in Biology 1926-30; Sec. British Medical Assn. 1944-50; Pres. World Medical Assn. 1949-50; Liberal-Conservative M.P. 1950-63; Parl. Sec., Ministry of Food 1951-55; Postmaster-Gen. 1955-57; Chancellor of the Duchy of Lancaster 1957-61; Minister of Housing and Local Govt. and Minister of Welsh Affairs 1961-62; Dir. Laporte Industries 1962-65, Chair. 1965-70; Dir. Abbey National Building Soc. 1964-78, Chair. 1976-78; Chair. Independent Television Authority 1963-67; Chair. of Govs. BBC 1967-72; Chair. Nat. Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services 1963-78. *Publications:* What is Osteopathy? 1937, Your Health in Wartime 1941, Wartime Food for Growing Children 1942, Wise Eating in Wartime 1943, When Your Baby is Coming 1943, Wednesday Morning Early—by the Radio Doctor 1944, Your Body 1944, Your Aches and Pains 1945, The Way to Better Health 1946, Bringing up Your Child 1950, Dictionary of Health 1951, Both Sides of the Hill 1964, Behind the Screen 1974. *Leisure interests:* golf, walking. *Address:* 5 Bamville Wood, East Common, Harpenden, Herts., England.

HILL-NORTON, Baron (Life Peer) cr. 1979, of South Nutfield in the County of Surrey; **Admiral of the Fleet Peter John Hill-Norton,** G.C.B.; British naval officer; b. 8 Feb. 1915, Germiston; s. of Martin J. and Margery B. Norton; m. Margaret E. Linstow 1936; one s. one d.; ed. Royal Naval Coll., Dartmouth and Royal Naval Coll., Greenwich; went to sea 1932; commissioned 1936; served Arctic convoys, N.W. Approaches and Admiralty Naval Staff, Second World War 1939-45; Commdr. 1948; Captain 1952; Naval Attaché, Argentine, Uruguay, Paraguay 1953-55; in command H.M.S. Decoy 1956-57, H.M.S. Ark Royal 1959-61; Asst. Chief of Naval Staff 1962-64; Flag Officer, Second-in-Command Far East Fleet 1964-66; Deputy Chief of the Defence Staff (Personnel and Logistics) 1966; Second Sea Lord and Chief of Naval Personnel Jan.-Aug. 1967; Vice-Chief of Naval Staff 1967-68; Commander-in-Chief, Far East 1969-70; Chief of Naval Staff and First Sea Lord 1970-71; Chief of the Defence Staff 1971-74; Chair. North Atlantic Mil. Cttee. 1974-77; Pres. Sea Cadet Assn. 1977-; Vice-Pres. Defence Mfrs. Assn. 1978-; Liveryman Worshipful Company of Shipwrights 1973; Freeman of the City of London 1974. *Publication:* No Soft Options 1978. *Leisure interests:* golf, shooting, waterskiing. *Address:* King's Mill House, South Nutfield, Surrey, England. *Telephone:* Nutfield Ridge 3309.

HILLARY, Sir Edmund Percival, K.B.E.; New Zealand explorer and bee farmer; b. 20 July 1919, Auckland; s. of Percy and Gertrude Hillary; m. Louise Mary Rose 1953 (died 1975); one s. two d. (one deceased); ed. Auckland Grammar School and Univ. of Auckland; served R.N.Z.A.F. (on Catalinas in the Pacific) 1944-45; went to Himalayas on N.Z. Garwhal expedition 1951, when he and another were invited to join the British reconnaissance over Everest under Eric Shipton; took part in British expedition to Cho Oyu 1952, and in British Mount Everest Expedition under Sir John Hunt 1953, when he and Tenzing reached the summit on May 29th; Leader N.Z. Alpine Club Expedition to Barun Valley 1954; N.Z. Antarctic Expedition 1956-58, reached South Pole Dec. 1957; Leader Himalayan Expeditions 1961, 1963, 1964; Pres. Volunteer Service Abroad in New Zealand 1963-64; built a hospital for Sherpa tribesmen, Nepal 1966; Leader climbing expedition on Mount Herschel, Antarctica 1967; River Ganges Expedition 1977; Polar Medal 1958; Gurkha Right Hand (1st Class); James Wattie Book of the Year Award, N.Z. 1975. *Publications:* High Adventure 1955, The Crossing of Antarctica (with Sir Vivian Fuchs) 1958, No Latitude for Error 1961, High in the Thin Cold Air (with Desmond Doig) 1963, Schoolhouse in the Clouds 1965, Nothing Venture, Nothing Win (autobiog.) 1975, From the Ocean to the Sky 1978. *Leisure interests:* walking, fishing, camping. *Address:* 278A Remuera Road, Auckland, New Zealand.

HILLE, (Carl) Einar, PH.D.; American professor of mathematics; b. 28 June 1894, New York; s. of Carl A. Heuman and Edla (née Ekman) Hille; m. Kirsti Ore 1937; two s.; ed. Palmgrenska Samskolan, Stockholm, Univ. of Stockholm, Harvard Univ. and Univs. of Göttingen and Copenhagen; Swedish civil service 1918-20; Docent, Stockholm 1919; Instructor, Harvard Univ. 1921-22, Princeton Univ. 1922-23; Asst. Prof. Princeton Univ. 1923-26, 1927-30, Assoc. Prof. 1930-33; Prof. Yale Univ. 1933-62, Prof. Emer. 1962-; Visiting Prof. Stanford Univ. 1928, 1941-42, Chicago 1931, Univ. of Stockholm and Uppsala 1949, 1962, Tata Inst. Bombay 1963, 1964, Australian Nat. Univ. 1965, 1966-67, Univ. of Calif. (Irvine) 1965-66, Univ. of Oregon 1967-68, Univ. of New Mexico 1968-72, Univ. of San Diego 1972-73, Univ. of Calif. (San Diego) 1973-; Fulbright Lecturer, Nancy 1952, Sorbonne 1953, Univ. of Mainz 1956; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Swedish Acad. of Sciences, Lund Physiographical Soc., Connecticut Acad. of Arts and Sciences, Göteborg Soc. of Arts and Sciences; John Ericson Medal. *Publications:* Functional Analysis and Semi-groups 1948, 1957, Analysis (2 vols.) 1964, 1966, Analytic Function Theory (2 vols.) 1959, 1962, Ordinary Differential Equations 1969, Methods in Classical and Functional Analysis 1972, Ordinary Differential Equations in the Complex Domain 1976 and about 165 articles in professional journals. *Leisure interests:* reading archaeology, history, linguistics, entomology, cosmology, mysteries. *Address:* 8862 La Jolla, Scenic Drive N., La Jolla, Calif. 92037, U.S.A. (Home). *Telephone:* (714) 453-6250.

HILLEBRECHT, Rudolf Friedrich Heinrich, DIPL. ING.; German architect and town planner; b. 26 Feb. 1910, Hanover; s. of Ernst and Bertha (née Arning) Hillebrecht; m. 1st Ruth Frommhold 1937, 2nd Oxana Saweljewa 1967; one d.; ed. Humanistisches Gymnasium, Hanover, and Technische Hochschulen, Hanover and Berlin; worked with Walter Gropius, Berlin 1933-34; Building Inspector, Travemünde, Hamburg and Hanover 1934-37; Office Manager, architectural practice of Konstanty Gutschow, Hamburg 1937-45; worked in Dept. for Replanning of Hamburg 1937-44; Army Service 1944-45; worked with Werner Kallmorgen, Hamburg 1945-46; Deputy Chief, Building Div., British Occupied Zone 1946; Sec. for Building Affairs, German Advisory Council of British Zone 1946-48; Municipal Town Planner and Architect, City of Hanover 1948-75; Pres. Gottfried-Wilhelm-Leibniz-Gesellschaft 1969-; Pres. German Acad. for Town and Country Planning (1973-) and other orgs.; Grosses Bundesverdienstkreuz mit stern und Schulterband, and many other decorations. *Leisure interests:* arts, literature, music. *Address:* Friedrichswall 4, 3 Hanover (Office); Gneiststrasse 7, 3 Hanover, Federal Republic of Germany (Home).

HILLEL, Shlomo; Israeli politician; b. 1923, Baghdad, Iraq; m. Tmima Rosner 1952; one s. one d.; ed. Herzliah High School, Tel-Aviv and Hebrew Univ., Jerusalem; Mem., Ma'agan Michael Kibbutz 1942-58; Jewish Agency for Palestine—mission to countries in Middle East 1946-48, 1949-51; Israel Defence Forces 1948-49; Prime Minister's Office 1952-53; mem. of Knesset 1953-59, 1974-; Amb. to Guinea 1959-61, to Ivory Coast, Dahomey, Upper Volta and Niger 1961-63; mem. Perm. Mission to UN with rank of Minister 1964-67; Asst. Dir.-Gen. Ministry of Foreign Affairs 1967-69; Minister of Police 1969-77; Co-ordinator of political contacts with Arab leadership in administered territories 1970-; Minister of the Interior June-Oct. 1974; Chair. Ministerial Cttee. for Social Welfare 1974-77; Chair. Sephardi Fed. 1976-. *Address:* c/o Ministry of Police, Jerusalem, Israel.

HILLEMAN, Maurice R., PH.D.; American virologist; b. 30 Aug. 1919, Miles City, Mont.; s. of Robert A. and Edith M. (Matson) Hilleman; m. 1st Thelma L. Mason 1943 (deceased), 2nd Lorraine Witmer 1963; two d.; ed. Montana State Coll. and Univ. of Chicago; Asst. Bacteriologist, Univ. of Chicago 1942-44; Research Assoc., Virus Laboratories, E.R. Squibb & Sons 1944-47; Chief Virus Dept. 1947-48; Medical Bacteriologist and Asst. Chief, Virus and Rickettsial Diseases, Army Medical Service Graduate School, Walter Reed Army Medical Center 1948-56; Chief, Respiratory Diseases, Walter Reed Army Inst. of Research, Washington 1956-57; Dir. Virus and Cell Biology Research, Merck Inst. for Therapeutic Research, Merck & Co. Inc. 1957-66, Exec. Dir. 1966-70; Dir. Virus and Cell Biology Research, Vice-Pres. Merck Sharp and Dohme

Research Laboratories 1970-; Visiting Lecturer in Bacteriology, Rutgers Univ. 1947; Visiting Investigator, Hospital of Rockefeller Institute for Medical Research 1951; Visiting Prof. Department of Bacteriology, Univ. of Maryland 1953-57; Adjunct Prof. of Virology in Pediatrics, School of Med., Univ. of Pa. 1968-; Consultant, Surgeon-Gen. U.S. Army 1958-63; Children's Hosp. of Philadelphia 1968-; mem. Expert Advisory Panel on Virus Diseases, WHO 1952-, Cttee. on Influenza 1952, Cttee. on Respiratory Diseases 1958, Scientific Group on Measles Vaccine Studies 1963, on Viruses and Cancer 1964, on Human Viral and Rickettsial Vaccines 1965, on Respiratory Diseases 1967; mem. Study Section, Microbiology and Immunology Grants-in-Aid Program 1953-61; mem. Editorial Board Proceedings of the Soc. for Experimental Biology and Medicine 1976, Editorial and Publs. Cttee. 1977-; mem. Council, Tissue Culture Assn. 1977-; mem. numerous U.S. and Int. Medical Socs.; Fellow, American Acad. of Microbiology, American Acad. of Arts and Sciences; Hon. D.Sc. (Montana Univ.) 1966, (Maryland Univ.) 1968; recent awards include Distinguished Civilian Service Award given by Sec. of Defense 1957, Washington Acad. of Sciences Award for Scientific Achievement in the Biological Sciences 1958, Walter Reed Army Medical Center Incentive Award 1960, Merck Dirs. Scientific Award 1969, Dean M. McCann Award for Distinguished Service 1970, Procter Award 1971, American Acad. of Achievement, Golden Plate Award 1975, Industrial Research Inst. Achievement Award 1975. *Publications:* almost 400 original publications on virology, immunology and public health. *Address:* Merck Sharp and Dohme Research Laboratories, Merck Institute for Therapeutic Research, West Point, Pennsylvania 19486, U.S.A. *Telephone:* (215) 699-5311.

HILLENBRAND, Martin Joseph PH.D.; American diplomatist; b. 1 Aug. 1915, Youngstown, Ohio; s. of Joseph and Maria Hillenbrand; m. Faith Stewart 1941; two s. one d.; ed. Univs. of Dayton and Columbia; Foreign Service Officer 1939-; Vice-Consul, Zürich 1939, Rangoon 1940, Calcutta 1942, Lourenço Marques 1944, Bremen 1944; Consul, Bremen 1946; Bureau of German Affairs, State Dept. 1950-52; First Sec., Paris 1952-56; U.S. Political Adviser, Berlin 1956-58; Dir. Office of German Affairs, State Dept. 1958-62; Head of "Berlin Task Force" 1962-63; Deputy Chief of Mission, Bonn 1963-67; Chair. Fulbright Comm. for Germany 1963-67; Amb. to Hungary 1967-69; Asst. Sec. of State for European Affairs 1969; Amb. to Fed. Repub. of Germany 1972-76; Dir.-Gen. Atlantic Inst. for Int. Affairs, Paris 1977-. *Publications:* Power and Morals 1948, Zwischen Politik und Ethik (co-author) 1968. *Leisure interests:* reading, walking, golf. *Address:* Atlantic Institute for International Affairs, 120 rue de Longchamp, 75116 Paris, France.

HILLER, Dame Wendy, D.B.E.; British actress; b. 15 Aug. 1912, Stockport; d. of Frank Hiller and Marie Stone; m. Ronald Gow 1937; one s. one d.; ed. Winceby House, Bexhill; trained as an actress Manchester Repertory Theatre; Acad. Award for Best Actress, Separate Tables 1959; numerous stage and film roles; plays include Love on the Dole (London and New York) 1935, Cradle Song, The First Gentleman 1945, Tess of the d'Urbervilles, The Heiress (London and New York) 1947, Ann Veronica, The Night of the Ball 1955, Waters of the Moon 1955, 1978, Moon for the Misbegotten (New York) 1957, Flowering Cherry 1958, Toys in the Attic 1960, Aspern Papers (New York) 1962, The Wings of the Dove 1963, The Sacred Flame 1967, When We Dead Awaken (Edinburgh Festival) 1968, The Battle of Shrivings 1970, Crown Matrimonial 1972, John Gabriel Borkman (London) 1975, Lies 1976; films include Pygmalion 1938, Major Barbara 1940, I Know Where I'm Going 1945, Separate Tables 1958, Sons and Lovers 1960, A Man for All Seasons 1966, David Copperfield 1969, Murder on the Orient Express 1975, Voyage of the Damned 1976, Cat and the Canary 1977. *Leisure interest:* gardening. *Address:* c/o Laurence Evans, I.C.M., 22 Grafton Street, London, W.1, England.

HILLERY, Patrick John, B.SC., M.B., B.CH., B.A.O., D.P.H.; Irish politician; b. 2 May 1923, Miltown-Malbay, Co. Clare; s. of Dr. Michael Joseph Hillery and Ellen Hillery (née McMahon); m. Mary Beatrice Finnegan; one s. one d.; ed. Miltown-Malbay National School, Rockwell Coll., Cashel and Univ. Coll., Dublin; Mem., Health Council 1955-57; Medical Officer, Miltown-Malbay 1957-59; Coroner for West Clare 1958-59; mem. Dáil 1951-73; Minister for Educ. 1959-65; Minister for Industry and Commerce 1965-66, for Labour 1966-69, of Foreign Affairs 1969-72; Vice-Pres. Comm. of European Communities, Commr. for Social Affairs 1973-76; Pres. of Ireland Dec. 1976-; Hon. Fellow Royal Coll. of Surgeons (Ireland), Faculty of Dentistry, Royal Coll. of Surgeons (Ireland), All-India Inst. of Medical Sciences; Hon. LL.D. (Nat. Univ. of Ireland, Trinity Coll., Dublin); M.R.I.A. *Address:* Áras an Uachtaráin, Phoenix Park, Dublin 8, Ireland.

HILLIARD, Michael; Irish politician; b. 11 March 1903, Co. Meath; s. of James Hilliard and Mary O'Brien; m. Kathleen McMahon 1925; six s. five d.; Parliamentary Sec. to Minister for Industry and Commerce 1958-59; Minister for Posts and Telegraph 1959-65; T. D. Meath-Westmeath 1943-48, Meath 1948-73; Minister for Defence 1965-69; mem. European Parl. 1973-79; Fianna Fáil. *Address:* 11 St. Enda's Villas, Navan, Co. Meath, Ireland.

HILLS, Carla Anderson, A.B., LL.D.; American lawyer and government official; b. 3 Jan. 1934, Los Angeles; d. of Carl and Edith (Hume) Anderson; m. Roderick Maltman Hills (*q.v.*) 1958; one s. three d.; ed. Stanford Univ., Calif., St. Hilda's Coll., Oxford, U.K., Yale Law School; Asst. U.S. Attorney, Civil Div., Los Angeles, Calif. 1958-61; Partner, Munger, Tolles, Hills & Rickershauser (law firm) 1962-74; Adjunct Prof., School of Law, Univ. of Calif., Los Angeles 1972; Asst. Attorney-Gen. Civil Div., U.S. Dept. of Justice 1974-75; Sec. of Housing and Urban Devt. 1975-77; Partner, Latham, Watkins & Hills (law firm) 1978-; Co-Chair. Alliance to Save Energy 1977-; Vice-Chair. Bar of Supreme Court of the U.S., Calif. State and D.C. Bars, Council Section of Anti-trust Law, American Bar Assn. 1974-, American Law Inst. 1974-, Fed. Bar Assn. (Los Angeles Chapter, Pres. 1963), Women Lawyers Assn. (Pres. 1964), Los Angeles County Bar Assn., Chair. of various cttees. including Standing Cttee. on Discipline, Calif. 1970-74; mem. Board of Dirs. Int. Business Machines, The Signal Co. Inc., Standard Oil Co. of Calif., American Airlines Inc., Int. Exec. Service Corpns.; mem. Carnegie Comm. on the Future of Public Broadcasting 1977-, Sloan Comm. on Govt. and Higher Educ. 1977-, Advisory Cttee. Woodrow Wilson School of Public and Int. Affairs 1977-, Yale Univ. Council 1977-, Fed. Accounting Standards Advisory Council 1978-, Trilaterial Comm. 1977-, American Cttee. on East-West Accord 1977-, Int. Foundation for Cultural Cooperation and Devt. 1977-, Editorial Board, National Law Journal 1978-; Contributing Editor, Legal Times 1978-; Fellow, American Bar Foundation 1975-; Trustee, Pomona Coll. 1974-, Norton Simon Museum of Art 1976-, Brookings Inst. 1977-, Univ. of S. Calif. 1977-; Advisor, Annenberg School of Communications, Univ. of S. Calif. 1977-; Hon. degrees from Pepperdine Univ., Calif. 1975, Washington Univ., Mo. 1977, Mills Coll., Calif. 1977. *Publications:* Federal Civil Practice (co-author) 1961, Antitrust Adviser (editor and co-author) 1971. *Leisure interest:* tennis. *Address:* c/o Latham, Watkins & Hills, Suite 1200, 1333 New Hampshire Avenue, N.W., Washington, D.C. 20036; 3125 Chain Bridge Road, N.W., Washington, D.C. 20016, U.S.A. (Home). *Telephone:* (202) 466-3500 (Office); (202) 966-2065 (Home).

HILLS, Roderick Maltman, LL.D.; American lawyer and government official; b. 9 March 1931, Seattle, Wash.; s. of Kenneth Maltman and Sarah (Love) Hills; m. Carla Anderson (Hills, *q.v.*) 1958; one s. three d.; ed. Stanford Univ., Calif.; admitted to Calif. Bar 1957, to Supreme Court Bar 1960; Law Clerk to Justice, Supreme Court 1955-57; Partner, Tolles, Hills and Rickershauser, law firm 1962-71; Chair. of Board Repub. Corpn. 1971-75; Counsel to Pres. of U.S.A. 1975; Chair. Securities and Exchange Comm. 1975-77; Chair., Chief Exec. Officer, Peabody Coal Co., St. Louis and Washington 1977-; Visiting Prof. Harvard 1969-70; Lecturer, Stanford Univ. 1960-; Chair. Research Cttee., American Bar Foundation, Board of Dirs., Constitutional Rights Foundation; mem. American Bar Assn., Los Angeles County Bar Assn., Calif. State Bar; Trustee, Claremont Univ. Centre; mem. Editorial Board, Comment Editor, Stanford Law Review 1953-55. *Address:* 301 North Memorial Drive, St. Louis, Mo. 63102 (Office); 3125 Chain Bridge Road, N.W., Washington, D.C. 20016, U.S.A. (Home). *Telephone:* (202) 966-2065 (Home).

HILSMAN, Roger, B.S., M.A., PH.D.; American diplomatist and educator; b. 23 Nov. 1919, Waco, Texas; s. of Colonel Roger Hilsman and Emma Prendergast Hilsman; m. Eleanor Hoyt 1946; two s. two d.; ed. West Point and Yale Univ.; U.S. Army 1943-53; Center for Int. Studies, Princeton Univ. 1953-56; Chief Foreign Affairs Div. of Legislative Reference Service, Library of Congress 1956-58, Deputy Dir. (for Research) 1958-61; Dir. Bureau of Intelligence and Research, Dept. of State 1961-63; Asst. Sec. of State for Far Eastern Affairs 1963-64; Prof. of Govt., Columbia Univ. 1964-. *Publications:* Strategic Intelligence and National Decisions 1956, To Move a Nation 1967, The Politics of Policy Making in Defense and Foreign Affairs 1971, The Crouching Future, International Politics and U.S. Foreign Policy, A Forecast 1975; co-author: Military Policy and National Security 1956, Foreign Policy in the 60s 1965, contributor to Alliance Policy in the Cold War 1959, NATO and American Security 1959, The Guerrilla—and How to Fight Him 1962, Modern Guerrilla Warfare 1962. *Leisure interest:* designing toys. *Address:* Hamburg Cove, Lyme, Conn., U.S.A. (Home).

HIMLE, Erik; Norwegian economist and politician; b. 10 April 1924; ed. Oslo Univ.; Sec., Ministry of Commerce 1948-49; Int. Bank for Reconstruction and Devt., Washington 1949-51; Ministry of Commerce 1951-52; Chief of Dept., Ministry of Defence 1952-55, Dir. 1956-58, Under-Sec. of State 1958-61, Sec.-Gen. 1961; Under-Sec. of State, Minister of Transport and Communications 1962-63; Minister of Commerce and Shipping 1963-64, of Communications 1964-65; Sec. Labour group in the Storting (Parl.); Sec. financial-political cttee. under Minister of Finance 1966-67; Perm. Sec. of Defence 1967-; Labour. *Address:* c/o Ministry of Defence, Sørkedalsveien 148, Pb 8126 Dep., Oslo, Norway.

HIMSWORTH, Sir Harold Percival, K.C.B., M.D., F.R.S., F.R.C.P.; British medical research scientist; b. 19 May 1905, Huddersfield, Yorks.; m. Charlotte Gray, M.B. 1932; two s.; ed. Univ. of London; fmrly. Prof. of Medicine Univ. of London and Dir. Medical Unit Univ. Coll. Hospital Medical School, London 1939-49; Sec. Medical Research Council 1949-68; Fellow Univ. Coll. London; Consulting Physician Univ. Coll. Hospital; Chair. Board of Management, London School of Hygiene and Tropical Medicine 1969-76; Prime Warden Goldsmith's Co., London 1974-76; Fellow Royal Soc.; Hon. mem. Swedish Medical Soc., and Belgian Royal Acad. of Medicine; mem. Norwegian Medical Soc.; Foreign Hon. mem. American Acad. of Arts and Sciences; mem. Royal Soc. Arts and Sciences; Gothenburg; Hon. Fellow Royal Coll. of Radiologists; Hon. mem. Asscn. of American Physicians; Foreign mem. American Philosophical Soc.; Dr. h.c. (Toulouse), Hon. LL.D. (Glasgow, London, Wales), Hon. D.Sc. (Manchester) 1956, Hon. Sc.D. (Cambridge) 1964, Hon. D.Sc. (Leeds and Univ. of West Indies) 1968; Hon. F.R.C.P. (Edin.) 1960; Hon. F.R.S.M. 1961; Hon. F.R.C.S. 1965; Hon. F.R.C. Path. 1969. *Publication:* The Development and Organisation of Scientific Knowledge 1970. *Address:* 13 Hamilton Terrace, London, NW8 9RE, England.

HINDE, Thomas (*see* Chitty, Sir Thomas Wiles).

HINE, Maynard Kiplinger, D.D.S., M.S.; American dentist; b. 25 Aug. 1907, Waterloo, Ind.; s. of Clyde L. and Delia (Kiplinger) Hine; m. Harriett Foulke 1932; two s. one d.; ed. Univ. of Illinois; Instructor at Univ. of Illinois Coll. of Dentistry 1930-32; Assoc. 1936-38; Asst. Prof. 1938-43; Assoc. Prof. and Head of the Div. of Oral Pathology at Indiana Univ. School of Dentistry 1944-45; Prof. and Head of the Dept. of Periodontia and Histopathology, Indiana Univ. School of Dentistry 1945-; Dean of Indiana Univ. School of Dentistry 1945-68; Chancellor, Indiana Univ.-Purdue Univ. at Indianapolis 1969-73; Exec. assoc. Indiana Univ. 1973-; Chair. Periodontal Disease Advisory Comm. of Nat. Inst. for Dental Research of Dept. Health Educ. and Welfare 1972-75; mem. American Asscn. of Dental Editors, Pres. 1949-50; mem. Nat. Dental Advisory Cttee. of U.S. Public Health Service 1948-50; mem. Int. Asscn. Dental Research, Pres. 1952; mem. Advisory Panel on Medical Sciences, Dept. of Defense; mem. Indiana State Dental Asscn., Pres. 1957-58; Editor Journal of Periodontology 1950-70; Pres. American Asscn. of Dental Schools 1952; Pres. American Dental Asscn. 1966; Pres. Féd. Dentaire Int. 1975-77; Regent Nat. Library of Medicine 1960-63; mem. Advisory Council of Nat. Inst. for Dental Research; Pres. American Acad. of Periodontology 1964; Hon. Fellow, Royal Coll. of Surgeons (Ireland) 1974, Royal Coll. of Dentists, Canada 1977. *Leisure interest:* philately. *Address:* 1121 West Michigan Street, Indianapolis, Ind. 46202, U.S.A. *Telephone:* 264-8717 (Office); 255-2776 (Home).

HINES, Earl Kenneth; American jazz pianist, band leader and composer; b. 28 Dec. 1905, Duquesne, Pa.; s. of Joseph and Mary Hines; m. 1947; two d.; ed. Schenley High School, Pittsburgh; learned piano from Emma Young and Von Holz; formed trio and joined Lois Deppe 1918; has made records 1922-; joined Carroll Dickerson on tour to Calif. 1926; worked with Louis Armstrong, Chicago 1926, with Jimmie Noon 1928; recorded first piano solos 1928; formed own big band 1928, leader 1928-47; rejoined Louis Armstrong 1948; appearances leading small group or solo 1951-; has toured Europe, Japan, Latin America, Australia, 1964, tour of U.S.S.R. 1966, performed at White House 1970, 1976; elected to Down Beat Hall of Fame 1965. *Major Compositions:* My Monday Date, Rosetta, Jelly Jelly, Deep Forest, Everything Depends on You, Stormy Monday Blues. *Publication:* The World of Earl Hines (with Stanley Dance) 1977. *Leisure interests:* baseball, watching football, bowling. *Address:* c/o Max Cavalli, 232 Martense Street, Brooklyn, N.Y. 11226, U.S.A.

HINSHAW, Horton Corwin, A.B., M.A., PH.D., M.D.; American physician; b. 1902, Iowa Falls, Ia.; s. of Milas Clark Hinshaw and Ida Bushong Hinshaw; m. Dorothy Youmans 1924; two s. two d.; ed. Coll. of Idaho, Univs. of California and Pennsylvania; Asst. Prof. of Parasitology, Univ. of Calif. 1927-28; Adjunct Prof. of Parasitology, School of Medicine, American Univ. of Beirut, Lebanon (Chair., Dept. of Parasitology and Bacteriology) 1928-31; Instructor in Bacteriology, Univ. of Pa. Medical School 1931-33; Fellow and First Asst. in Medicine, Mayo Foundation, Rochester 1933-35; fmrly. Assoc. Prof. of Medicine, Mayo Foundation, Univ. of Minnesota, and Consultant in Medicine (Head of Section), Mayo Clinic; Clinical Prof. of Medicine and Head of Div. in Diseases of the Chest, Stanford Univ. School of Medicine 1949-59; Clinical Prof. of Medicine, Univ. of Calif. Medical Cen. 1960-; Consultant to Letterman Army Hospital, San Francisco 1965-75; Consultant, Weimar Medical Center, Calif. 1950-74; Dir. Medical Services, Harkness Community Hosp. and Medical Center 1967-74; Hon. D.Sc. (Idaho Coll.). *Publications:* Streptomycin in Tuberculosis (with H. McL. Riggins) 1948, Diseases of the Chest 1968, over 200 articles in scientific journals. *Leisure interests:* yachting, travel. *Address:* 450 Sutter Street, Suite 1023, San Francisco, Calif. 94108, U.S.A.

HINTERSCHEID, Mathias; Luxembourg trade unionist; b. 26 Jan. 1931, Düdelange; m. Marie Morbe; three s.; ed. Ecole Supérieure du Travail; apprentice, then metalworker, Arbed works Düdelange until 1958; mem. Luxembourg Workers' Union (LAV) 1946-, active in youth movement; mem. Exec. of Düdelange Branch, LAV 1955-59; mem. man. cttees. of Health Insurance, Pension and Disability Insurance Funds, Arbed works, Düdelange 1955-58; full-time Sec. for Youth, Educ. and Propaganda 1958-63; Gen. Sec., Luxembourg Conféd. Gén. du Travail (CGT) 1963-70; Pres. of LAV and CGT 1970-76; mem. Exec. Cttee. European Trade Union Confed. (ETUC) 1965-, Gen. Sec. ETUC April 1976-; mem. Presidium of Nat. Trade Union Council 1970-; mem. Luxembourg Socialist Labour Party (LSAP) 1947-, Vice-Pres. 1963-68, mem. Econ. and Social Cttee. 1966-76; Gen. Sec. Union Luxembourgeoise des Consommateurs (ULC), consumer org. 1964-70; mem. various state comms. incl. Labour Exchange, Price Comm., Index Comm.; fmr. mem. Board of Man., Tageblatt co-operative printing office and newspaper, BfG Luxembourg Bank; fmr. Man. Dir. UCL co-operative bank; fmr. Pres. Infraplan planning and building soc. *Address:* European Trade Union Confederation, 37 rue Montagne aux Herbes Potagères, 1000 Brussels, Belgium. *Telephone:* 219-10-90.

HINTON OF BANKSIDE, Baron (Life Peer) cr. 1965, of Dulwich; **Christopher Hinton,** O.M., K.B.E., F.R.S., M.A., F.I.CHEM.E., F.R.S.A.; British engineer; b. 12 May 1901, Tisbury, Wilts.; s. of Frederick Henry Hinton and Kate Hinton (née Christopher); m. Lillian Boyer (died 1973); one d.; ed. Trinity Coll., Cambridge; eng. apprenticeship, Great Western Railway Co., Swindon 1917-23; engineer Imperial Chemical Industries (Alkali) 1926-40, and Chief Engineer 1931-40; on loan from I.C.I. to Ministry of Supply 1940-46; Deputy Dir.-Gen. of Filling Factories 1942-46; Deputy Controller for Atomic Energy (Production), Ministry of Supply and later Man. Dir. of the Industrial Group of the United Kingdom Atomic Energy Authority 1946-57; Chair. Cen. Electricity Generating Board 1957-64, Int. Exec. Cttee. of World Power Conf. 1962-66; carried out a study of transport co-ordination 1965; Special Adviser to the World Bank 1965-70; Deputy Chair Electricity Supply Research Council; Chancellor Bath Univ.; Pres. Council of Engineering Insts. 1969-77; Pres., Fellowship of Eng. Feb. 1976-; Hon. Assoc. Manchester Inst. of Science and Technology; Hon. mem. American Soc. of Mechanical Engineers, American Inst. of Mechanical Engineers, Inst. of Gas Engineers, Inst. of Welding; Hon. Fellow, Inst. of Civil Engineers, Inst. of Mechanical Engineers (fmr. Pres.), Inst. of Electrical Engineers, Inst. of Metals; Hon. Fellow, Trinity Coll., Cambridge; Foreign Assoc., Nat. Acad. of Eng., U.S.A.; Hon. D.Sc. (Oxford, Southampton, Durham, Bath), Hon. LL.D. (Edinburgh), Hon. D.Sc. (Eng.) (London), Hon. D.Eng. (Liverpool), Hon. Sc.D. (Cambridge); Imperial Order of the Rising Sun (2nd Class). *Publications:* include lectures and papers on engineering and nuclear power development. *Address:* Tiverton Lodge, Dulwich Common, London, SE21 7EW, England. *Telephone:* 01-693 6447.

HIORT, Esbjörn; Danish architect; b. 2 April 1912, Copenhagen; s. of Ivar Hiort and Emma Hiort (née Lorentzen); m. Bente Andresen 1943; two s. two d.; ed. Det Kongelige Akademi for de Skønne Kunster; practised as Architect 1937-52; Sec. Asscn. of Academic Architects 1945-52; Sec.-Gen. Nat. Fed. of Danish Architects 1952-59; Gen. Man. Perm. Sales Exhbn. of Danish Arts and Crafts (Den Permanente) 1959-67; Chair. School of Arts and Crafts, Copenhagen 1963-; Officer Order of Dannebrog, Officier d'Académie (France), Officer, Order of Léopold II (Belgium). *Publications:* Contemporary Danish Architecture 1949, Housing in Denmark 1952, Modern Danish Silver 1954, Modern Danish Ceramics 1955, Modern Danish Furniture 1956, etc. *Leisure interests:* heraldry and genealogy. *Address:* Bel Colles Farm, Parkvej 6, 2960 Rungsted Kyst, Denmark. *Telephone:* (2)868815.

HIRAHARA, Tsuyoshi, Japanese diplomatist; b. 25 Oct. 1920, Kagoshima; s. of Eisuke Fujita and Shizuko Hirahara; m. Kiyoko Nishi 1946; two d.; ed. Tokyo Imperial Univ.; mil. service 1943-45; Attaché, Treaty Bureau, Ministry of Foreign Affairs 1945-47; Sec. to Foreign Minister 1947-48; Section Chief, Special Procurement Bd. 1948-50; Sec. of Embassy, Belgium 1950-52; Deputy Dir. Econ. Affairs Bureau, Ministry of Foriegn Affairs 1952-55, Dir. 1959-61, Counsellor 1961-64, Deputy Dir.-Gen. 1969-70, Dir.-Gen. 1970-72; Dir. Asian Section, UNESCO, Paris 1955-59; Interpreter to H.I.M. the Emperor of Japan 1960-64; Consul-Gen., Milan 1964-66; Minister, Embassy in Belgium and Luxembourg 1964-69; Amb. to Morocco 1972-74, to OECD, Paris 1974-, Chair. Exec. Cttee. 1977-; Commdr., Ordre de la Couronne, Grand Officier, Ordre de Léopold II, Grand Officier, Ouissam Alaouite. *Leisure interests:* golf, collecting tortoises. *Address:* 54 avenue Sainte-Foy, Neuilly-sur-Seine, France. *Telephone:* 722-2966, 722-2806.

HIRAI, Tomisaburo, LL.B.; Japanese business executive; b. 13 Dec. 1906, Tokyo; s. of Kichibei Hirai; m. Tami Hayakawa; one s. two d.; ed. Tokyo Imperial Univ.; joined Ministry of Commerce and Industry 1931, Perm. Vice-Minister, Int. Trade and Industry 1953; Exec. Counsellor, Yawata Iron and Steel Co. Ltd. 1956, Dir. Admin. Bureau, Yawata Works 1956, Dir. 1956, Man. Dir. 1958, Sr. Man. Dir. and Gen. Supt. Yawata Works 1962, Exec. Vice-Pres. 1967; after merger with Fuji Iron and Steel Co. Ltd., Exec. Vice-Pres. Nippon Steel Corpn. 1970-73, Rep. Dir. and Pres. 1973-76; Chair. Japan-Brazil Econ. Cttee., Fed. of Econ. Orgs. 1974; Pres. Japan Overseas Enterprise Assen. 1974; Blue Ribbon Medal 1973. *Leisure interest:* golf. *Address:* 11-4, 1-chome, Kakinokizaka, Meguro-ku, Tokyo, Japan.

HIRASAWA, Kô, M.D.; Japanese university official; b. 1900, Niigata; s. of Heitaro and Chino Hirasawa; m. Matue Naganuma; two s. four d.; ed. Faculty of Medicine, Kyoto Imperial Univ.; Asst. Prof., Kyoto Imperial Univ. 1925-26; Asst. Prof. Niigata Medical Coll. 1926-30, Prof. 1930-46; Prof. Kyoto Univ. 1946-63, Dean Liberal Arts 1949-51, Dean Medical Dept. 1956-57, Pres. 1957-63; Pres. Kyoto Cancer Assen. 1962-; mem. Japan Soc. of Neurosurgery, Japan Soc. of Neurology and Psychiatry, Japan Soc. of Anatomy, Japan Acad. 1967; Acad. Prize for Medical Science 1951, Takeda Prize 1956. *Publications:* Der Plexus brachialis der Japaner 1932, The cortical motor system 1951 and many articles. *Address:* 141 Shinnyo-cho, Jôdoji, Sakyo-ku, Kyoto 606, Japan. *Telephone:* 075-771-0549.

HIRATA, Kusuo; Japanese business executive; b. 7 Sept. 1909, Ooita; s. of Shuzo and Tai Hirata; m. Teruko Koinumaru 1940; two s. one d.; ed. Kwansei Gakuin Univ.; With Daicel Ltd. 1933-34; joined Fuji Photo Film Co., Ltd. 1934, Man. Finance Dept. 1950-62, Dir. 1954-64, Man. Planning Div. 1962-66, Man. Dir. 1964-69, Man. Sales Div. 1966-71, Senior Man. Dir. 1969-71, Pres. 1971-; Blue Ribbon Medal 1974. *Leisure interest:* golf. *Address:* Fuji Photo Film Co. Ltd., 26-30 Nishiazabu 2-chome, Minato-ku, Tokyo (Office); 48-12, Utsukushigaoka 2-chome, Midori-ku, Yokohama-shi, Kanagawa, Japan (Home). *Telephone:* 03-406-2111 (Office); 045-901-1771 (Home).

HIRATSUKA, Masunori, M.A., LITT.D.; Japanese educationist; b. 1907, Tokyo; s. of Yunosuke and Hanako; m. Yaeko Iwai 1933; four d.; ed. Tokyo Imperial Univ.; Lecturer, Aoyama Gakuin Theological School 1931-36, Ferris Seminary 1932-36, St. Paul Univ. 1936-39, Prof. Hiroshima Higher Normal School 1939-44; Prof. Faculty of Letters, Kyushu Imperial Univ. 1944-63, Faculty of Educ. 1949, leave of absence 1960, Dean of Faculty of Educ. 1954-56, Dir. Research Inst. of Educ. and Culture 1956-63, Prof. Emer. 1964-; Dir. Dept. of Educ., UNESCO, Paris 1960, Dir.-Gen. Nat. Inst. for Educational Research 1963-; mem. Cen. Advisory Council on Educ., Council on Curriculum Revision, Council on Social Educ., Japan Educ. Soc. (Gov. of Bd.), Japan Educ. Philosophy Soc., Japan Educ. History Soc., Gov. Board of UNESCO Inst. for Educ. in Hamburg, World Council of Comparative Educ.; Chair. Japan Comparative Educ. Soc., Nat. Assen. of Research Inst. for Educ., Gov. Bd. of Nat. Educ. Hall; Pres. Japanese Nat. Comm. for UNESCO 1972-; Chair. Emer. Baiko Women's Univ.; Commdr. Palmes académiques (France) 1961. *Publications:* The Educational Thought of the Old Testament 1935 and 1957, Women's Education in Israel 1936, History of Education in Japan 1938, History of Modern Education in China 1944, Future of Japan and Moral Education 1959, Future of Japanese Education 1964. *Leisure interests:* music, fishing, golf. *Address:* Kokuritsu Kyoiku Kenkyusho (NIER), 6-5-22 Shimomeguro, Meguro-ku, Tokyo (Office); 1-5-44 Takanawa, Minato-ku, Tokyo, Japan (Home). *Telephone:* 714-0111 (Office); 441-7630 (Home).

HIRO, Keitaro; Japanese business executive; b. 7 Dec. 1908, Tsukaguchi, Amagasaki, Hyogo Pref.; s. of Yasukichi and Kimi Hiro; m. Sadano Kubo 1941; two s. two d.; ed. Ohkura Higher Commercial School and Ritsumeikan Univ.; teacher, Ohkura Commercial High School 1938-43; Chief, Accounting Dept., Kubota Ltd. 1946, Man. Financial Dept. 1950, Dir. Financing 1951, Man. Dir. 1953, Senior Man. Dir. 1960, Pres. 1971-; Dir. Kubota Trane Ltd., Kubota Construction Co; Dir. Japan Productivity Assen. 1961, Osaka Industrialist Assen. 1961, Kansai Man. Assen. 1961. *Leisure interests:* reading, Chinese calligraphy. *Address:* Kubota Ltd., 22 Funadecho, 2-chome, Naniwa-ku, Osaka; 15-32 Takakuracho Nishinomiya, Hyogo Pref., Japan.

HIROHITO, Emperor of Japan; b. 29 April 1901. son of Emperor Yoshihito; married Princess Nagako Kuni 1924; Regent 1921-26; succeeded 25 Dec. 1926; heir H.I.H. Crown Prince Akihito (Tsugunomiya), b. 23 Dec. 1933, married Michiko Shoda 1959; Fellow of the Royal Soc. (U.K.) 1971. *Publications:* nine books on marine biology. *Address:* The Imperial Palace, Tokyo, Japan.

HIROOKA, Tomoo; Japanese newspaper publishing executive; b. 24 Aug. 1907, Hyogo Prefecture; s. of Matomo and Nui Hirooka; m. Mitsu Soga 1934; one s. two d.; ed. Univ. of Tokyo; Joined Asahi Shimbun newspaper 1932, Editorial Writer 1942, Econ. Editor 1948, Man. Editor 1954, Dir. 1956, Rep. of Seibu Main Office 1960, Rep. Dir., Man. Dir. 1964, Pres. 1967, Chair. of the Bd. 1977-; Pres. of Nihon Shimbun Kyokai (Japanese Newspapers Publishers Assen.) 1975-. *Address:* c/o The Asahi Shimbun, 2-6-1 Yuraku-cho, Chiyoda-ku, Tokyo 100, Japan. *Telephone:* 03 (212) 0131.

HIROSE, Shin-ichi, B.LAWS; Japanese business executive; b. 25 Jan. 1913; ed. Tokyo Imperial Univ.; Govt. official 1938-65, Vice-Minister, Ministry of Transport 1964-65, Senior Man. Dir. of Nippon Express Co. Ltd. 1968-72, Exec. Vice Pres. 1972-76, then Pres. 1976-. Cttee. of Overall Nat. Land Devt. Council, 1975-; Dir., Japan Fed. of Employers' Assens., 1975-, Fed. of Economic Orgs., 1975-. *Address:* 3-12-9, Soto-Kanda, Chiyoda-Ku, Tokyo (Office); 1-29-12, Amanuma, Suginami-Ku, Tokyo, Japan (Home).

HIROTA, Hisakazu; Japanese steel executive; b. 7 May 1899, Kyoto; two s. three d.; ed. Univ. of Kyoto; Sumitomo Steel Works 1923, Dir. Sumitomo Metal Industries Ltd. 1946-, Man. Dir. 1947, Sr. Man. Dir. 1947-49, Pres. 1962, Chair. 1973-76, Adviser to Pres.; Pres. Kansai Productivity Center; Order of the Rising Sun. *Leisure interests:* photography, oil painting and golf. *Address:* 1-27-5 Tsukaguchicho, Amagasaki City, Hyogo Pref., Japan. *Telephone:* 06-421-5153.

HIROTA, Seiichiro; Japanese business executive; b. 25 Jan. 1905, Onga-gun, Fukuoka Pref.; m. Hideko Egawa 1928; two d.; ed. Hiroshima Univ.; Toyo Rayon Co. (now Toray Industries Inc.) 1927-, Dir. 1956-60, Man. Dir. 1960-63, Exec. Vice-Pres. 1963-66, Pres. 1966-71, Sr. Adviser and Dir. 1971-. *Leisure interests:* gardening, golf. *Address:* Toray Industries Inc., Toray Building, 2, Nihonbashi-Muromachi 2-chome, Chuo-ku, Tokyo, Japan. *Telephone:* 03-270-0111.

HIRSCH, Etienne; French civil engineer and administrator; b. 24 Jan. 1901, Paris; ed. Ecole des Mines, Paris; joined Etablissements Kuhlmann 1924, attached to research lab. 1924-29, later factory man., Dir. of Research and Devt. and Dir. Société Marles-Kuhlmann, Société Technique pour l'Amélioration des Carburants and Société des Produits Chimiques Ethyl-Kuhlmann; joined Free French Forces 1940; Asst. Dir. of Armaments, Algiers 1943; Pres. French Supply Council, London, French rep. temp. Econ. Cttee. for Europe 1945; Head Technical Div., Commissariat-Général au Plan 1946-49, Deputy Commr.-Gen. 1949-52, Commr.-Gen. 1952-59; participated in negotiations setting up ECSC 1950-52, NATO Cttee. of Wise Men 1951-52; Pres. EURATOM Comm. 1959-62; Pres. Inst. Technique de Prévision Economique et Sociale 1962-; Prof. Free Univ. of Brussels 1963-69; Pres. Comité Central du Mouvement Fédéraliste Européen 1964-, Hon. Pres. 1975-; Commdr. Légion d'honneur. *Address:* 10 rue de la Justice, 92310 Sèvres, France.

HIRSCH, Sir Peter Bernhard, Kt., M.A., PH.D., F.R.S.; British professor of metallurgy; b. 16 Jan. 1925, Berlin; s. of Ismar Hirsch and Regina Meyersohn; m. Mabel A. Kellar (née Stephens) 1959; one step s. one step d.; ed. Univ. of Cambridge; Lecturer in Physics, Univ. of Cambridge 1959-64, Reader 1964-66; Fellow, Christ's Coll., Cambridge 1960-66, Hon. Fellow 1978-; Isaac Wolfson Prof. of Metallurgy, Univ. of Oxford and Fellow, St. Edmund Hall 1966-; Chair. Metallurgy and Materials Cttee., Science Research Council 1970-73; mem. Council for Scientific Policy 1971-72; mem. Council, Inst. of Physics 1968-72, Inst. of Metals 1968-73, Electricity Supply Research Council 1969-, Metals Soc. Council 1976-, Council Royal Soc. 1977-; Rosenhain Medal, Inst. of Metals 1961, Boys' Prize, Inst. of Physics and Physical Soc. 1962, Clamer Medal, Franklin

Inst. 1970, Wihuri Int. Prize 1971, Hughes Medal of the Royal Soc. 1973, Platinum Medal of the Metals Soc. 1976, Royal Medal of Royal Soc. 1977. *Publications:* Electron Microscopy of Thin Crystals (joint author) 1965, The Physics of Metals, 2, Defects (editor) 1975 and numerous articles in learned journals. *Leisure interest:* walking. *Address:* Department of Metallurgy and Science of Materials, University of Oxford, Parks Road, Oxford, OX1 3PH, England. *Telephone:* Oxford 59981.

HIRSCH, Robert; French civil servant; b. 20 Nov. 1912, Paris; m. Jacqueline Oge 1937; ed. Lycée Janson-de-Sailly, Paris, and Ecole Polytechnique, Paris; Sub-Lieut. French Air Force 1934, Lieut. 1936, Capt. 1940, Commdt. 1944; Dir. Supply, Accommodation and Transport, Sûreté Nationale 1944, Dir.-Gen. 1951-54; Prefect, Charente Maritime 1947, Seine Maritime 1954-59, Nord 1959-63; Admin.-Gen. Atomic Energy Comm. 1963-70; Admin. Electricité de France 1963-70, Centre nationale d'études spatiales 1968-70, Société nationale de pétroles d'Aquitaine 1970-77; Pres. Gaz de France 1970-75, Admin. 1975-; Comité permanent des réformes administratives 1972-, Pres. Soc. d'Etudes et Réalisations Nucléaires (SODERN), Laboratoires d'Electronique et de Physique appliquée 1978-; Admin. Radio-technique; mem. Bd. of the Order of the Légion d'honneur; Grand Officier, Légion d'honneur, Grand Croix, Ordre national du Merite, Croix de guerre, etc. *Address:* 23 rue Philibert-Delorme, 75017 Paris, France.

HIRSCH, Robert Paul; French actor; b. 26 July 1925; mem. Comédie Française 1952-74; numerous appearances include: La belle aventure, Le prince travesti, Monsieur de Pourceaugnac, Les temps difficiles, La double inconstance, Le dindon, Amphitryon, Britannicus, Crime et Châtiment, La faim et la soif, Monsieur Amilcar, L'abîme et la visite. *Films include:* Le dindon, Votre dévoué Blake, En effeuillant la marguerite, Notre-Dame de Paris, Maigret et l'affaire Saint-Fiacre, 125 rue Montmartre, Par question le samedi, Monnaie de singe, Martin soldat, Toutes folles de lui, les Cracks, Appelez-moi Mathilde, Traitement de choc, Chobizenesse; Officier des Arts et des Lettres. *Address:* 172 boulevard Berthier, 75017 Paris, France.

HIRSCHFELDER, Joseph Oakland, B.S., PH.D.; American professor of chemistry; b. 27 May 1911, Baltimore, Md.; s. of Arthur Douglas Hirschfelder and May Rosalie Straus; m. Elizabeth Stafford Sokolnikoff 1953; ed. Univ. of Minnesota and Yale and Princeton Univs.; Research Assoc., Univ. of Wis. 1937-40, Instructor in Chem. and Physics 1940-41, Asst. Prof. of Chem. 1941-42, Prof. 1946-, Dir. of Theoretical Chem. Inst. 1962-; Adjunct Prof. Univ. of Calif. 1974-; Consultant, Nat. Defense Research Cttee., Interior Ballistics Guns and Rockets 1942-43; Group Leader, Theoretical Physics and Ordnance, Los Alamos Atomic Bomb Lab.; Head Theoretical Physics Div., Naval Ordnance Test Station, Inyokern and Pasadena 1945-46; Chief Phenomenologist, Bikini Atomic Bomb Test 1946; Fellow, American Physical Soc., Physical Soc. (London); mem. Advisory Bd., Argonne Nat. Lab. 1962-66. Nat. Bureau of Standards 1962-67; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Int. Acad. of Quantum Molecular Science, A.C.S. (Chair. of Physical Chem. Div. 1959-61), Combustion Inst.; Hon. mem. A.S.M.E.; Foreign mem. Royal Soc. of Norway; Debye Award of American Chemical Soc. 1966, Sir Alfred Egerton Gold Medal of Combustion Inst. 1966, Nat. Medal of Science 1975. *Publications:* The Effects of Atomic Weapons (Chair. Bd. of Eds.) 1950, Molecular Theory of Gases and Liquids 1954, 1964, Intermolecular Forces 1967. *Leisure interests:* golf, swimming, riding. *Address:* Theoretical Chemistry Institute, University of Wisconsin, 1101 University Avenue, Madison, Wis. 53706; Thorstrand Road, Madison, Wis. 53705, U.S.A. (Home). *Telephone:* 608-262-1511 (Office); 608-233-8433 (Home).

HIRZEBRUCH, Friedrich Ernst Peter, DR. RER. NAT.; German professor of mathematics; b. 17 Oct. 1927, Hamm, Westf.; s. of Dr. Fritz Hirzebruch and Martha Hirzebruch (née Holtschmit); m. Ingeborg Spitzley 1952; one s. two d.; ed. Westfälische Wilhelms-Univ., Münster, and Technische Hochschule, Zürich; Scientific Asst. Univ. of Erlangen 1950-52; mem. Inst. for Advanced Study, Princeton, N.J., U.S.A. 1952-54; Dozent, Univ. of Münster 1954-55; Asst. Prof., Princeton Univ., N.J. 1955-56; Full Prof., Bonn Univ. 1956-, Dean, Faculty of Mathematics and Natural Sciences 1962-64; Pres. German Mathematical Soc. 1961-62; mem. Leopoldina, Heidelberg, Mainz, Netherlands and Nordrheinwestf. Acads.; Silver Medal, Swiss Fed. Inst. of Technology 1950. *Publications:* Neue topologische Methoden in der Algebraischen Geometrie 1956; papers in mathematical journals 1950-. *Address:* Mathematisches Institut der Universität, Wegelerstrasse 10, 53 Bonn; Endenicher Allee 7, 53 Bonn, Federal Republic of Germany (Home). *Telephone:* 732840 (Math. Inst.); 636320 (Home).

HITCH, Charles Johnston, M.A., LL.D., D.SC; American institution executive; b. 9 Jan. 1910, Boonville, Mo.; s. of Arthur Martin and Bertha Johnston Hitch; m. Nancy W. Squire 1942; one d.; ed. Oxford, Arizona and Harvard Univs.; Fellow, Tutor and Praelector, Queen's Coll. Oxford 1935-48; Staff Economist, U.S. Mission for Econ. Affairs, London 1941-42; Staff Economist, U.S. War Production Bd. 1942-43; Chief of Stabilization Controls Div., U.S. Office of War Mobilization 1945-46; Chief, Econs. Div. and Chair. Research Council Rand Corpn. 1948-60; Asst. Sec. of Defense (Comptroller) U.S. Dept. of Defense 1961-65; Vice-Pres. Business and Finance, Univ. of Calif. 1965-66, Prof. of Econs. 1965-75, Vice-Pres. Admin. 1966-67, Pres. of Univ. 1968-75; Pres. Resources for the Future, Inc. 1975-; Chair. Gen. Advisory Cttee., Energy Research and Devt. Admin. 1975-; mem. Assembly of Eng., Nat. Research Council 1975-77; mem. Nat. Petroleum Council 1975-, Advisory Council, Gas Research Inst. 1976-, Advisory Council, Electric Power Research Inst. 1978-; Hon. Fellow, Queen's Coll. and Worcester Coll., Oxford; Trustee, Asia Foundation, Aerospace Corpn.; Hon. LL.D. (Pittsburgh, Missouri, Arizona, George Washington Univs.), Hon. D.Sc. in Commerce (Drexel Univ.), H.L.D. h.c. (Univ. of Judaism) 1973; Distinguished Public Service Award, U.S. Navy; Rhodes Scholar and George Webb Medley Scholar. *Publications:* America's Economic Strength 1941, The Economics of Defense in the Nuclear Age 1960, Decision-Making for Defense 1965, Energy Conservation and Economic Growth 1978. *Address:* Resources for the Future Inc., 1975 Massachusetts Avenue, N.W., Washington, D.C. 20036 (Office); 5217 Westbard Avenue, Bethesda, Md. 20016, U.S.A. (Home). *Telephone:* (202) 462-4400 (Office); (301) 320-5066 (Home).

HITCHCOCK, Alfred Joseph; American (b. British) film director; b. 13 Aug. 1899, London; m. Alma Reville 1926; one d.; ed. Univ. of London; joined Lasky Famous Players Corpn. 1920; Sr. Dir. British Int. Pictures; Hon. D.F.A. (Univ. of Calif., Santa Cruz) 1968; Hon. D.H.L. (Columbia) 1972; Life Achievement Award (American Film Inst.) 1978; Croix, Officier des Arts et des Lettres 1969, Commdr., Nat. Orders of Arts and Letters 1976. *Films produced under his direction include:* Blackmail, Juno and the Paycock, The Farmer's Wife, Hindle Wakes, Thirty-nine Steps, The Man Who Knew Too Much, Secret Agent, Sabotage, Young and Innocent, The Lady Vanishes, Jamaica Inn, Rebecca, Foreign Correspondent, Mr. and Mrs. Smith, Suspicion, Saboteur, Shadow of a Doubt, Lifeboat, Spellbound, Notorious, The Paradine Case, Rope, Under Capricorn, Stage Fright, Strangers on a Train, I Confess, Dial M for Murder, Rear Window, To Catch a Thief, The Trouble with Harry, The Wrong Man, Vertigo, North by Northwest, Psycho, The Birds, Marnie, Torn Curtain, Topaz, Frenzy, Family Plot; television series: Alfred Hitchcock Presents 1955-61, Alfred Hitchcock Hour 1965-65. *Publications:* Stories Not for the Nervous 1966, Stories that Scared Even Me 1968, Stories to Stay Awake By 1971, Supernatural Tales of Terror and Suspense 1974, Stories to be Read with the Door Locked; children's books: Monster Museum 1971, Haunted Houseful 1971. *Address:* c/o University City Studios, Universal City, Calif. 91608, U.S.A.

HITCHCOCK, Henry-Russell, M.A.; American architectural historian; b. 3 June 1903, Boston, Mass.; s. of Henry R. and Alice Davis Hitchcock; ed. Harvard Coll., Harvard Graduate School of Design; Asst. Prof. of Art, Vassar Coll. 1927-28, Wesleyan Univ. 1929-41, Assoc. Prof. 1941-47, Prof. 1947-48; Prof. of Art, Smith Coll. 1948-, Sophia Smith Prof. of Art 1961-68; Prot., Inst. of Fine Arts, N.Y. Univ. 1969-; Dir. Smith Coll. Museum of Art 1949-55; Pres. Victorian Soc. of America 1970-73; Fellow, Pilgrim Soc., Franklin Fellow; R.S.A.; Hon. D.F.A. (N.Y. Univ.) 1969, Hon. D.Litt. (Glasgow) 1973, (Pa.) 1976; American Council Learned Socs. Award 1961, American Inst. of Architects Award of Merit 1978. *Publications:* Modern Architecture 1929, The International Style 1943, Architecture of H. H. Richardson 1936, In the Nature of Materials, Buildings of Frank Lloyd Wright 1942, American Architectural Books 1946, Early Victorian Architecture in Britain 1954, Architecture, 19th and 20th Centuries 1958, The Brothers Zimmermann 1968, Rococo Architecture in Southern Germany 1968, Temples of Democracy (with William Seale) 1976; Netherlandish Scrolled Gables of the 16th and Early 17th Centuries 1978. *Address:* 152 East 62nd Street, New York, N.Y. 10021, U.S.A. *Telephone:* 758-6554.

HITCHENS, (Sydney) Ivon, C.B.E.; British painter; b. 3 March 1893, London; s. of Alfred Hitchens and Ethel Seth-Smith; m. Mary Cranford 1935; one s.; ed. Bedales, St. John's Wood Art Schools, Royal Acad. Schools; foundation mem. of the "Seven and Five" Group 1922; first one-man exhbn. Mayor Gallery, London 1925; numerous one-man exhbns. Lefevre, Leicester and Waddington Galleries, London and Poindexter Gallery, New York; retrospective

shows Leeds, Sheffield, London, Venice Biennale, Vienna, Munich, Musée Nat. d'Art Moderne, Paris, Stedelijk Museum, Amsterdam, Tate Gallery, London 1963; rep. in many int. exhbns. including "Masters of British Painting 1800-1950" Museum of Modern Art, New York 1956, Exhbn. Universelle et Int., Brussels 1958, XI Premio Lissone, Italy 1959, Int. Asscn. of Art Critics 12th Exhbn., Vancouver 1959, Exhbn. of British Painting 1720-1960, Pushkin Museum Moscow and Hermitage Leningrad 1960, Arts Council 3 Masters of Modern British Painting 1961; large mural executed for Cecil Sharpe House, London 1953-54; Rural Landscape, Nuffield Coll., Oxford 1959; Refectory Mural, Univ. of Sussex 1962; large tapestry, Chase Manhattan Bank, London 1973; works purchased by Tate Gallery, Victoria and Albert Museum, Arts Council, British Council and numerous museums and insts. in Great Britain, U.S.A., Canada, New Zealand, Australia, France and Norway. *Address:* Waddington Galleries, 2 Cork Street, London, W1X 1PA, England. *Telephone:* 01-439 1866.

HITZINGER, Walter; German engineer and industrialist; b. 8 April 1908; ed. Technical Coll., Vienna; Steyr-Daimler-Puch factory 1935-44; Gen. Man. "Flugmotorenwerke Ostmark" 1943-45; owner factories Linz and Salzburg 1946-; Chair., Gen. Man. A. G. Vöest 1952-61; Chair., Gen. Man. Daimler-Benz A. G. Stuttgart 1961-66. *Address:* Hitzinger u. Co., Linz, Austria.

HJALMARSON, Harry; Swedish business executive (retd.); b. 19 May 1907, Köping; s. of Hjalmar Pettersson and Elin Danielson; m. Greta Keijser 1934; one s. one d.; mem. Nat. Pension Fund 1959-; mem. Bd. Dirs. Commercial Banking Co. of Swedish Savings Banks, Celloplast Co., South Sweden Power Co., Sentab, Swedish Shaleoil Co. 1957-; fmr. Pres. Kooperativa förbundet (Swedish Cooperative Union and Wholesale Soc.) 1957-. *Address:* Kooperativa förbundet, Stockholm 15 (Office); Skinnarviksringen 10, Stockholm SV, Sweden (Home). *Telephone:* 69-66-22.

HJÖRNE, Lars Goran; Swedish newspaper editor and publisher; b. 20 Oct. 1929, Gothenburg; s. of late Harry Hjörne; m. Anne Margaretha Gyllenhammar 1951; one s. one d.; Chief Ed. Göteborgs-Posten 1969-. *Address:* Polhemsplatsen 5, 41102 Gothenburg (Office); Hägnavägen 23, 430 80 Hovås, Sweden (Home). *Telephone:* 28-55-55 (Home).

HJORTH-NIELSEN, Henning; Danish diplomatist; b. 22 July 1913, Copenhagen; m. Ernestine Gottfried 1947; ed. Københavns Universitet; Ministry of Justice 1938; Asst. to Gov. of Faroe Islands 1939; Danish Mil. Mission, London 1944; Ministry for Foreign Affairs 1946-51; mem. Danish Del. to North Atlantic Treaty Org. (NATO) 1951, to OEEC 1954; Commercial Minister, London 1959-63; Amb. to Netherlands 1963-66, to NATO 1966-73, to Belgium and Luxembourg 1967-74, to Canada 1974-75; Perm. Rep. to UN 1975-77; Amb. to Sweden 1977-; Danish and foreign awards. *Leisure interests:* music, reading. *Address:* Danish Embassy, P.O. Box 1638, Stockholm 11186, Sweden.

HLA HAN, Col., M.B., B.S., D.P.H.; Burmese politician; b. 26 Sept. 1918; ed. Rangoon and Liverpool Univs.; served in Burma National Army and Resistance 1942-45; joined Burma Medical Corps 1949; Dir. Medical Services, Ministry of Defence 1955; promoted Col. 1958; mem. Revolutionary Council and Minister for Health and Educ. 1962-74; Minister for Foreign Affairs 1970-72; mem. Council of State 1974-78; Star of Independent Sithu (First Class). *Address:* c/o Council of State, Rangoon, Burma.

HO CHENG-WEN; Chinese soldier; Chief of Staff, Third Army Corps 1949; Deputy Commdr. of Chengtu Mil. Region, PLA 1955-74; Deputy Chief of Gen. Staff 1974-. *Address:* People's Republic of China.

HO CHIH-YUAN; Chinese soldier; political Commissar, Shantung Mil. District, PLA 1974-. *Address:* People's Republic of China.

HO KUANG-YU; Chinese army officer; Maj.-Gen., Deputy Commdr. Kweichow Mil. District, People's Liberation Army 1958, Commdr. 1966-; Vice-Chair. Kweichow Revolutionary Cttee. 1967; Deputy Sec. CCP Kweichow 1971. *Address:* People's Republic of China.

HO YI-HSIANG; Chinese government official; took part in capture of Nanking 1949; mem. Pres. First Nanking Party Congress 1949; Chief of Staff, Shantung Mil. Dist. 1953; Maj.-Gen. PLA Force Chekiang 1963; Acting Dir., Nat. Defence Athletic Asscn. Chekiang Provincial Peoples Council 1964; Deputy Commdr. Chekiang Mil. Dist. 1965; Commdr. Shanghai Mil. Dist. 1978-; Head Shanghai Group for People's Air Defence 1978-. *Address:* People's Republic of China.

HO YU-FA; Chinese army officer; Deputy Commdr. Kirin Mil. District, People's Liberation Army 1967, Commdr. 1968-; Vice-Chair. Kirin Revolutionary Cttee. 1968; Sec. CCP Kirin 1971. *Address:* People's Republic of China.

HOAR, William Stewart, O.C., B.A., M.A., PH.D., D.SC., F.R.S.C.; Canadian zoologist; b. 1913, Moncton, N.B.; s. of George W. Hoar and Nina B. Steeves; m. Margaret M. Hoar 1941; two s. two d.; ed. Univs. of New Brunswick, Western Ontario and Boston; Demonstrator in Zoology, Univ. of Western Ontario 1934-36; Histology asst., Boston Univ. Medical School 1936-39; Asst. Prof. of Biology, Univ. New Brunswick 1939-42; Physiology Research Assoc., Univ. of Toronto 1942-43; Prof. of Zoology, Univ. of New Brunswick 1943-45; Prof. of Zoology and Fisheries, Univ. of British Columbia 1945-64, Prof. and Head, Zoology Dept. 1964-71, Prof. Zoology 1971-; John Simon Guggenheim Fellowship, Oxford 1958-59; Hon. D.Sc.; Flavelle Medal Award 1965. *Publications:* Articles on physiology and behaviour of fish; textbook of comparative physiology. *Leisure interest:* gardening. *Address:* Department of Zoology, University of British Columbia, Vancouver V6T 1W5, Canada. *Telephone:* 228-4881.

HOARD, James Lynn, M.S., PH.D.; American research chemist; b. 28 Dec. 1905, Rural, Okla.; s. of Charles Ellsworth and Bertha Terpening Hoard; m. Florence Marion Fahey 1935; three s.; ed. Univ. of Washington and California Institute of Technology; Instructor in Chem., Stanford Univ. 1932-35; Ohio State Univ. 1935-36; Cornell Univ. 1936-, Prof. 1946-71, Prof. Emer. 1971-; Prin. Investigator under contract, Cornell Univ. with Office of Scientific Research and Devt. 1942-45; Columbia Univ. (Manhattan Project) 1943-44; Atomic Energy Comm. 1951-56; Army Research Office 1959-61; Prin. Investigator under research grants from Nat. Science Foundation 1956-73, Nat. Inst. of Health 1962-79; mem. Nat. Acad. of Sciences, American Crystallographic Assn., American Chemical Soc., American Physical Soc.; Guggenheim Fellow 1946, 1960, 1966; American Chem. Soc. Award for Distinguished Service in the Advancement of Inorganic Chem. 1977. *Publications:* more than 100 articles in professional journals. *Leisure interests:* piano playing, omnivorous reading, gardening. *Address:* Department of Chemistry, Cornell University, Ithaca, N.Y. 14853; 42 Cornell Street, Ithaca, N.Y. 14850, U.S.A. (Home). *Telephone:* 607-256-3646 (Office); 607-273-7243 (Home).

HOBBY, Oveta Culp (Mrs. William P.); American newspaper proprietor; b. 19 Jan. 1905, Killeen, Texas; d. of I. W. and Emma (Hoover) Culp; m. William P. Hobby 1931; one s. one d.; ed. public schools, private tutors and Mary Hardin Baylor Coll.; Parliamentarian, Texas House of Representatives 1926-31 and 1939, 1941; joined Houston Post as Research Ed. 1931, became successively Literary Ed., Asst. Ed., Vice-Pres., Exec. Vice-Pres. and Ed., Ed. and Publisher, resgnd. 1953, returned as Pres. and Ed. 1955-65; Ed. and Chair. of Bd. Houston Post Co. 1965-; Dir. Station KPRC-AM-TV 1945-53, 1955-65; Chair. of Bd., Dir. Channel Two TV Co. 1970-; Chief, Women's Interest Section, War Dept. Bureau of Public Relations 1941-42; apptd. Dir. W.A.A.C. 1942; Col. U.S. Army and Dir. W.A.C. 1943-45; Fed. Security Admin. 1953; Sec. Dept. of Health, Educ. and Welfare 1953-55; Charter mem. Acad. of Texas 1969; Hon. LL.D. (Baylor Univ.) 1943, (Sam Houston State Teachers' Coll.) 1943, (Chattanooga) 1943, (Bryant Coll.) 1953, (Ohio Wesleyan Univ.) 1954, (Columbia) 1954, (Smith Coll.) 1954, (Middlebury Coll.) 1954, (Univ. of Pa.) 1955, (Colby Coll.) 1955, (Fairleigh Dickinson) 1956, (Western Coll.) 1956; Hon. L.H.D. (Bard Coll.) 1950; (La Fayette Coll.) 1954; Hon. D.B.A. (Southwestern Business Univ.) 1951; Hon. D.Litt. (Colorado Women's Coll.) 1947; Hon. Dr. of Humanities (Mary Hardin Baylor Coll.) 1956; D.S.M. 1944; Philippine Mil. Merit Medal 1947, Publ. of Year Award 1960, Living History Award, Research Inst. of America 1960, Honor Award, Nat. Jewish Hosp. 1962. *Publications:* Mr. Chairman (parliamentary law textbook) and syndicated column of same title. *Address:* Houston Post, 4747 Southwest Freeway, Houston, Tex. 77001, U.S.A.

HOBDAY, Gordon Ivan, PH.D., F.R.I.C.; British business executive; b. 1 Feb. 1916, Derbyshire; s. of the late Alexander Thomas Hobday and Frances Cassandra (née Meads); m. Margaret Jean Joule 1940; one d.; ed. Long Eaton Grammar School, Univ. Coll., Notts.; joined The Boots Co. Ltd. 1939; Dir. of Research 1952-68, Deputy Man. Dir. 1968-70, Man. Dir. 1970-73, Chair. 1973-; Dir. The Metal Box Co. Ltd. 1976-; Deputy Chair. Price Comm. 1977-78; Chancellor, Univ. of Nottingham 1978-; mem. New York Acad. of Sciences; Hon. LL.D. *Leisure interests:* lawn tennis, handicrafts, gardening. *Address:* The Boots Company Limited, Nottingham, NG2 3AA, England. *Telephone:* Nottingham 56111.

HÖCHERL, Hermann; German politician; b. 31 March 1912, Bavaria; m. Theresia Lotter 1936; one s. three d.; ed. Univs. of Berlin, Aix-en-Provence and Munich; Asst. Judge, Regensburg

1938; served Second World War; Public Prosecutor 1950, Sr. Judge 1951, mem. Bundestag 1953-56; Fed. Minister of Internal Affairs 1961-65, Minister for Foods, Agriculture and Forestry 1965-69; Chair. Mediation Cttee. between Bundestag and Bundesrat 1969-73; Deputy Chair. Christian Social Union (CSU) and Chief Financial Dept. CDU/CSU in Bundestag 1971-76; Christian Social Union. *Leisure interests:* literature, plastic arts. *Address:* 8411 Brennberg 124, Regensburg, Federal Republic of Germany. *Telephone:* 09484-271.

HOCHHUTH, Rolf; Swiss playwright; b. 1933; fmr. publisher's reader; Resident Municipal Playwright, Basel 1963-. *Publications:* Plays: The Representative 1962, The Employer 1965, The Soldiers 1966, Anatomy of Revolution 1969, The Guerillas 1970, The Midwife 1972, Lysistrata and the NATO 1973.

HOCHOY, Sir Solomon, T.C., G.C.M.G., G.C.V.O., O.B.E.; West Indian civil servant; b. 20 April 1905, Jamaica; s. of David and Kuiyin Lue Hochoy; m. Thelma Edna Huggins 1935; one d. (adopted); ed. St. Mary's Coll., Trinidad; Official Trinidad Port and Marine Dept. 1927-39, Labour Dept. 1939-46; Dep. Industrial Adviser, Labour Dept. 1946-49; Commr. of Labour 1949-55; Dept. Chief Sec. 1955-56, Chief Sec. 1956-60; Gov. Trinidad and Tobago 1960-62; Gov.-Gen. of Trinidad and Tobago 1962-72. *Address:* Blanchisseuse, Trinidad and Tobago.

HOCHWÄLDER, Fritz; Austrian playwright; b. 28 May 1911, Vienna; s. of Leo Hochwälder and Therese König; m. Susanne Schreiner 1960; one d.; elementary education and apprenticeship as upholsterer; evening classes at Volkshochschule "Volkheim"; first performed in small Viennese theatres 1932, 1936; emigrated to Switzerland 1938; freelance writer in Zürich 1945-; Literary Prize of City of Vienna 1955; Grillparzer Prize of Austrian Acad. of Sciences 1956, Anton Wildgans Prize of Austrian Industry 1963, Austrian State Prize for Literature 1966, Österr. Ehrenkreuz für Wissenschaft und Kunst 1971, Ehrenring der Stadt Wien 1972. *Publications:* plays: Esther 1940, Das heilige Experiment 1942, Hôtel du Commerce 1944, Der Flüchtling 1945, Meier Helmbrecht 1946, Der öffentliche Ankläger 1948, Virginia 1951, Donadieu 1953, Die Herberge 1956, Der Unschuldige 1958, Donnerstag 1959, 1003 1963, Der Himbeerpflücker 1964, Der Befehl 1968, Lazaretti 1974. *Address:* Am Oeschbrig 27, 8053 Zürich, Switzerland. *Telephone:* 53-20-73.

HOCKE, Gustav René; German writer and journalist; b. 1 March 1908, Brussels, Belgium; m. Traude Effenberger 1951; two s. one d.; ed. Univs. of Berlin, Paris, Bonn; Literary editor, Kölnische Zeitung 1934-39; Italian corresp. for several German newspapers 1940-; Prof. Wiener Akademie der Schönen Künste; mem. Deutsche Akad. für Sprache und Dichtung, Bayerische Akademie der Künste, Accademia del Mediterraneo, Accademia Tiberina; Commdr. Italian Republic and other awards. *Publications:* Das giestige Paris 1937, Das verschwundene Gesicht 1939, 1960, Der tanzende Gott (novel) 1948, Die Welt als Labyrinth 1957, Manierismus in der Literatur 1959, Magna Graecia 1960, Das Europäische Tagebuch 1963, Labyrinthe de l'Art fantastique 1967, La funzione europea di Roma 1968, Fabrizio Clerici 1968, Der Mensch in Sein und Zeit 1969, G. Usellini 1970, Bummel durch Venedig 1973, Leherb, Le Monde d'un Surréaliste 1973, Verzweiflung und Zuversicht 1974, Neomanierismus, der Weg der modernen Kunst vom Surrealismus zur Meditiation 1975, Ljubas Universum 1979. *Leisure interests:* collection of magna graecia ceramics, violins, gardening. *Address:* Stampa Estera, Via Mercede 54; and Genzano di Roma, Monte Fiore, Rome, Italy. *Telephone:* Rome 9396515.

HOCKER, Alexander, DR.IUR.; German scientific administrator; b. 29 April 1913, Schweinsburg; ed. Univs. of Innsbruck, Hamburg and Leipzig; Del. of Fed. Germany to CERN 1952-61; Adviser and Dir. in charge of Research and Devt., Ministry for Scientific Research 1956-61; Admin. Man. Nuclear Research Centre of Jülich 1961-69; Scientific Adviser to Volkswagenwerk Foundation 1970-71; mem. Deutsche Kommission für Weltraumforschung 1964-71; Pres. ESRO 1965-67, Dir.-Gen. 1971-74; mem. Supervisory Bd. Max-Planck-Inst. für Physik und Astrophysik 1968-71, Max-Planck-Inst. für Plasmaphysik 1971-; Grosses Bundesverdienstkreuz mit Stern 1973. *Address:* 53 Bonn-Bad Godesberg, Augustrastrasse 63, Federal Republic of Germany (Home). *Telephone:* (02221) 363961.

HOCKNEY, David; British artist; b. 9 July 1937, Bradford; ed. Bradford Coll. of Art and Royal Coll. of Art; taught at Maidstone Coll. of Art 1962, Univ. of Iowa 1964, Univ. of Colo. 1965, Univ. of Calif. (Los Angeles) 1966, (Berkeley) 1967; has travelled extensively in Europe and U.S.A.; first one-man exhbn., Kasmin Gallery, London 1963; subsequent one-man exhbns. at Museum of Modern Art, New York 1964, 1968, Laundau-Alan Gallery, New York 1964, 1967, Kasmin Gallery 1965, 1966, 1968, 1969, 1970, 1972, Stedeljik Museum, Amsterdam 1966, Palais des Beaux-Arts, Brussels 1966, Studio Marconi and Galleria dell'Ariete, Milan 1966, Galerie Mikro, Berlin 1968, Whitworth Art Gallery, Manchester 1969, André Emmerich Gallery, New York 1969, 1972, Gallery Springer, Berlin 1970, Kestner-Ges., Hanover 1970, Whitechapel Gallery (retrospective exhbn.), London 1970, Kunsthalle, Bielefeld 1971, Musée des Arts Décoratifs, Louvre, Paris 1974, Galerie Claude Bernard, Paris 1975, Nicholas Wilder, Los Angeles 1976, Galerie Neundorf, Hamburg 1977; has participated in several group exhbns. at Inst. of Contemporary Arts (ICA) and numerous other group exhbns. throughout Europe and U.S.A., and in Japan, Australia, New Zealand and S. America 1960-; group exhbns. include Second and Third Paris Biennales of Young Artists, Musée d'Art Moderne 1961, 1963, Third Inst. Biennale of Prints, Nat. Museum of Art, Tokyo 1962, London Group Jubilee Exhbn. 1914-1964, Tate Gallery 1964, Painting and Sculpture of a Decade, Gulbenkian Foundation, Tate Gallery, London 1964, Op and Pop, Stockholm and London 1965, Fifth Int. Exhbn. of Graphic Art, Ljibljana 1965, First Int. Print Biennale, Cracow 1966, São Paulo Biennale 1967, Venice Biennale 1968, Pop Art Redefined, Hayward Gallery, London 1969; designed sets for Rake's Progress, Glyndebourne 1975; appeared in autobiographical documentary film A Bigger Splash 1974; Guinness Award 1961, Graphic Prize, Paris Biennale 1963, First Prize 8th Int. Exhbn. of Drawings and Engravings, Lugano 1964, prize at 6th Int. Exhbn. of Graphic Art, Ljubljana 1965, Cracow 1st Int. Print Biennale 1966; First Prize 6th John Moores Exhbn. 1967. *Publications:* David Hockney, Travel with Pen, Pencil and Ink 1978 (autobiography). *Address:* c/o Kasmin Ltd., 10 Clifford Street, London, W.1, England.

HODDINOTT, Alun, D.MUS.; British (Welsh) composer; b. 11 Aug. 1929, Bargoed, S. Wales; s. of Thomas Ivor Hoddinott and Gertrude Jones; m. Beti Rhiannon Huws 1953; one s.; ed. Gowerton Grammar School and Univ. Coll., Cardiff; Lecturer, Cardiff Coll. of Music and Drama 1951-59, Univ. Coll., Cardiff 1959-65, Reader 1965-67; Prof. of Music, Univ. Coll., Cardiff 1967-; Artistic Dir. Cardiff Festival of Twentieth Century Music 1966-; Hon. mem. Royal Acad. of Music; Walford Davies Prize 1954, Bax Medal 1957. *Works include:* six symphonies 1955-77; four sinfoniettas, eleven concertos 1951-69, six piano sonatas 1959-72, four violin sonatas 1969-76, sonatas for harp, cello, clarinet, horn, sonata for Cello and Piano 1977, Welsh Dances, Investiture Dances, Black Bart, Dives and Lazarus 1965, Variants 1966, Fioriture 1968, The Tree of Life 1971, Ritornelli 1974, The Beach at Falesa (opera) 1974, The Magician (opera), Ancestor Worship, Five Landscapes (song cycles), A Contemplation upon Flowers (songs for soprano and orchestra), What the Old Man Does is Always Right (opera), Passaggio for orchestra 1977, Dulcia Iuventutis 1977, Sonata for Organ, Voyagers (for baritone solo, male voices and orchestra) sonatina for guitar, sonatina for two pianos, The Rajah's Diamond (opera). *Address:* Maesawelon, Mill Road, Lisuane, Cardiff, Wales.

HODGKIN, Sir Alan Lloyd, O.M., K.B.E., F.R.S., M.A., SC.D.; British physiologist; b. 5 Feb. 1914, Banbury; s. of G. L. Hodgkin and M. F. Wilson; m. Marion de Kay Rous 1944; one s. three d.; ed. Gresham's School, Holt, and Trinity Coll., Cambridge; Scientific Officer (radar), Air Ministry and Ministry of Aircraft Production 1939-45; Lecturer, later Asst. Dir. of Research, Cambridge 1945-52, John Humphrey Plummer Prof. of Biophysics 1970-; Master of Trinity Coll., Cambridge 1978-; Foulerton Research Prof., Royal Soc. 1952-69; Pres. Marine Biological Assn. 1966-76; Pres. of the Royal Soc. 1970-75; Chancellor, Leicester Univ. 1971-; mem. Medical Research Council 1959-63, Royal Danish Acad. of Sciences, Leopoldina Acad., G.D.R.; Foreign mem. American Acad. of Arts and Sciences; Hon. Fellow, Indian Nat. Science Acad., Royal Soc. of Edinburgh; Hon. mem. Royal Irish Acad., U.S.S.R. Acad. of Sciences 1976; numerous hon. degrees; Royal Medal, Royal Soc. 1958; shared Nobel Prize for Medicine 1963; Copley Medal, Royal Soc. 1965. *Publications:* papers dealing with the nature of nervous conduction; Conduction of the Nervous Impulse 1963. *Leisure interests:* fishing, travel. *Address:* Physiological Laboratory, Cambridge, England. *Telephone:* Cambridge 64131.

HODGKIN, Dorothy Crowfoot, O.M., F.R.S., PH.D.; British crystallographer; b. 1910, Cairo, Egypt; d. of John Winter Crowfoot and Grace Mary Crowfoot (née Hood); m. Thomas Hodgkin (*q.v.*) 1937; two s. one d.; ed. Sir John Leman School, Beccles, and Somerville Coll., Oxford; Wolfson Research Prof., Royal Soc. 1960-77; Chancellor, Bristol Univ. 1970-; Fellow, Somerville Coll., Oxford 1977, Wolfson Coll., Oxford 1977-; Pres. B.A.A.S. 1977-78; Foreign mem. Royal Netherlands Acad. of Science and Letters, American Acad. of Arts and Sciences, Yugoslav Acad. of Sciences, Ghana Acad. of Sciences, Puerto Rico Acad. of Sciences, Australian Acad. of Sci-

ences, Leopoldina Acad. of Sciences, Nat. Acad. of Sciences of U.S.A.; Hon. mem. U.S.S.R. Acad. of Sciences 1976; Hon. D.Sc. (Leeds, Manchester, Cambridge, Sussex, Ghana, Hull, East Anglia, London, Delhi, Harvard, Exeter, Kent); Royal Medal of Royal Soc. 1957; Nobel Prize for Chem. 1964; Copley Medal of Royal Soc. 1976. *Address:* Crab Mill, Ilmington, Shipston-on-Stour, Warwicks., England.

HODGKIN, Thomas Lionel; British lecturer and writer, b. 3 April 1910, Oxford; s. of Robert Howard Hodgkin and Dorothy Forster Smith; m. Dorothy Crowfoot (Hodgkin, *q.v.*) 1937; two s. one d.; ed. Winchester Coll. and Balliol Coll., Oxford; Senior Demy, Magdalen Coll. 1932-33; Asst. Sec. Palestine Civil Service 1934-36; Educ. Officer, Cumberland Friends' Unemployment Cttee. 1937-39; Staff Tutor in North Staffordshire, Oxford Univ. Tutorial Classes Cttee. 1939-1945; Sec. to Oxford Univ. Delegacy for Extra-Mural Studies, Fellow of Balliol Coll. 1945-52; Visiting Lecturer, Northwestern Univ., Illinois 1957, Univ. Coll. of Ghana 1958; Research Assoc., Inst. of Islamic Studies, McGill Univ., Montreal 1958-61; Dir. Inst. of African Studies, Univ. of Ghana 1962-65; Lecturer, Govt. of New States, Univ. of Oxford, Senior Research Fellow, Balliol Coll. 1965-70, Emer. Fellow 1971-. *Publications:* Nationalism in Colonial Africa 1956, Nigerian Perspectives 1960, 2nd edn. 1975, African Political Parties 1961. *Address:* Crab Mill, Ilmington, Shipston-on-Stour, Warwicks., England.

HODGSON, James; American government official and diplomatist; b. 3 Dec. 1915, Dawson, Minn.; s. of Fred Arthur Hodgson and Casaraha Day; m. Maria Denend 1943; one s. one d.; ed. Univs. of Minnesota and California (Los Angeles); fmr. consultant to State of Calif. on manpower matters; Community Adviser to Inst. of Industrial Relations, Univ. of Calif.; joined Lockheed Aircraft Corpn. 1941, Corporate Dir. for industrial relations 1962-68, Vice-Pres. 1968-69; Under-Sec. of Labor 1969-70; Sec. of Labor 1970-73; Sr. Vice-Pres. in charge of Corporate Relations, Lockheed Aircraft Corpn. 1973; Amb. to Japan 1974-77; Chair. Uranium Mining Co. 1977-; Adjunct Prof. Univ. of Calif, (Los Angeles) 1977-. *Leisure interests:* golf, skiing, reading. *Address:* 10132 Hillgrove Boulevard, Beverly Hills, Calif. 90210, U.S.A. (Home).

HODGSON, Maurice Arthur Eric, M.A., B.SC., F.I.CHEM.E., C.ENG.; British company executive; b. 21 Oct. 1919, Bradford; s. of Walter and Amy (née Walker) Hodgson; m. Norma Fawcett 1945; one s. one d.; ed. Bradford Grammar School and Merton Coll., Oxford; joined ICI Ltd., Fertilizer and Synthetic Products Group 1942; Seconded to ICI (New York) Ltd. 1955-58; Head of Technical Dept., ICI Ltd. 1958, Devt. Dir. Heavy Organic Chemicals Div. 1960. (Deputy Chair. 1964), Gen. Man. Co. Planning 1966, Commercial Dir. and Planning Dir. 1970, Deputy Chair. 1972-78, Chair. 1978-; Dir. Carrington Viyella Ltd. 1970-74, Imperial Chemicals Insurance Ltd. 1970-78 (Chair. 1972); mem. Court of British Shippers' Council 1978-, Council, CBI 1978-, Pres.'s Cttee., The Advertising Assen. 1978-, Int. Council, The Salk Inst. 1978-; Visiting Fellow, School of Business and Organizational Studies, Univ. of Lancaster 1970-; Fellow, British Inst. of Management 1972-; Trustee, The Civic Trust 1978-; Gov. London Graduate School of Business Studies 1978-. *Leisure interests:* horse-racing, swimming, fishing. *Address:* Imperial Chemical Industries Ltd., Imperial Chemical House, Millbank, London, SW1P 3JF, England.

HODIN, Dr. Josef Paul, LL.D., PH.D., F.R.S.A.; British author and art historian; b. 17 Aug. 1905, Prague, Czechoslovakia; s. of Eduard David Hodin and Rosa Hodin (née Klug); m. Doris Pamela Simms 1945; one s. one d.; ed. Kleinseitner Realschule, Neustädter Realgymnasium, Prague. Charles Univ., London Univ., Art Academies, Dresden and Berlin; Press Attaché, Norwegian Govt. in London 1944-45; Dir. of Studies and Librarian, Inst. of Contemporary Arts, London 1949-54; Hon. mem. Editorial Council The Journal of Aesthetics and Art Criticism, Cleveland 1955-; founder mem. British Soc. of Aesthetics; Ed. Prisme des Arts, Paris 1956-59, Quadrum, Brussels 1959-70; Dir. foreign relations, Studio International 1966-76; Pres. British Section, Assen. Int. des Critiques d'Art; several decorations. *Publications:* Monographs on Sven Erixson 1940, Ernst Josephson 1942, Edvard Munch 1948, 1963, 1972, Isaac Grünewald 1949, Art and Criticism 1944, J. A. Comenius and Our Time 1944, The Dilemma of Being Modern 1956, Henry Moore 1956, Ben Nicholson 1957, Barbara Hepworth 1961, Lynn Chadwick 1961, Oskar Kokoschka 1963, 1966, 1968, 1971, 1976, Walter Kern 1966, Ruszkowski 1967, Bernard Leach 1967, Giacomo Manzù 1970, Emilio Greco 1971, Alfred Manessier 1972, Bernard Stern 1972, Modern Art and the Modern Mind 1972, Ludwig Meidner 1973, Hilde Goldschmidt 1974, Paul Berger-Bergner 1974, Kokoschka and Hellas 1976, John Milne 1977, Elisabeth Frink, Else Meidner 1979, Douglas Portway, Franz Luby. *Leisure interests:* travelling, reading. *Address:* 12 Eton Avenue, London, NW3 3EH, England. *Telephone:* 01-794 3609.

HODJA, Enver (*see* Hoxha, E.).

HODSON, Henry Vincent, M.A.; British editor, author and administrator; b. 12 May 1906, London; s. of Prof. Thomas C. Hodson and Kathleen (née Manly) Hodson; m. Margaret Elizabeth Honey 1933; four s.; ed. Gresham's School, Balliol Coll., Oxford; Fellow All Souls Coll., Oxford 1928-35; Ed. The Round Table 1934-39; Dir. of Empire Div., Ministry of Information 1939-41; Constitutional Adviser to Viceroy of India 1941-42; Principal Asst. Sec., Ministry of Production 1942-45; Asst. Ed. The Sunday Times 1945-50, Ed. 1950-61; Provost of Ditchley Foundation 1961-71; Proprietor Hodson Consultants 1971-; Consultant Ed. The International Foundation Directory 1972, The Business Who's Who 1973; Ed. Annual Register of World Events 1973-. *Publications:* Economics of a Changing World 1933, Slump and Recovery 1928-37 1938, Twentieth Century Empire 1948, The Great Divide: Britain-India-Pakistan 1969, The Diseconomics of Growth 1972. *Leisure interests:* gardening, theatre. *Address:* 18 Northumberland Avenue, London, WC2N 5BJ (Office); 23 Cadogan Lane, London, SW1X 9DP, England (Home). *Telephone:* 01-930 6046 (Office); 01-235 5509 (Home).

HOELGAARD, Vagn Hoffmeyer; Danish diplomatist; b. 12 Sept. 1913, Copenhagen; m. Eva Tolderlund; four c.; ed. Copenhagen University and Inst. Universitaire de Hautes Etudes Internationales, Geneva; Sec., Danish Foreign Exchange Office (Valutacentralen) 1938; entered Foreign Service 1939; Commercial Sec., London 1945-48; then in Ministry of Foreign Affairs, Copenhagen; Econ. Counsellor, Washington 1952; presided over several econ. and trade dels. 1956-62; Danish Del. to UN Econ. Comm. for Europe 1961-62; Amb. to Peru and Bolivia 1962-68; Amb. and Rep. of Denmark at OECD 1968-72; Amb. to Mexico, Cuba, El Salvador, Guatemala and Honduras 1973-; Commdr. Order of Dannebrog, Grand Cross Order of Sun (Peru), Commdr. Order of Lion (Finland), Officer, Order of Christ (Portugal). *Leisure interests:* piano, painting, bridge and golf. *Address:* Campos Eliseos 170-5, Polanco, México 5, D.F. (Office); Paseo de Reforma 1825, Lomas Chapultapec, México 10, D.F., Mexico (Home). *Telephone:* 531-3060.

HOEM, Knut; Norwegian fisheries official and politician; b. 27 Jan. 1924; joined Skien police 1950; Sec. Ministry of Fisheries 1951-55; Sales Sec. Norwegian Unprocessed Fish Assen., Tromsø 1955, later legal adviser 1955-63, Asst. Dir. 1963-64; Man. Dir. Norges Råfisklag (Fishermen's Unprocessed Fish Co-operative) 1964; fmr. Sec. Fish Information Bd.; mem. Dry Fish Export Cttee., Frozen Fish and Filleted Fish Export Cttee., mem. Bd. Nordfisk, Svolvaer; Minister of Fisheries 1971-72. *Address:* c/o Ministry of Fisheries, Oslo, Norway.

HOFFMAN, Dustin Lee; American actor; b. 8 Aug. 1937, Los Angeles, Calif.; s. of Harry Hoffman; m. Anne Byrne 1969; two d.; ed. Santa Monica City Coll.; First stage role in Yes is for ■ Very Young Man (Sarah Lawrence Coll., Bronxville, N.Y.); Broadway debut in A Cook for Mr. General 1961; other stage appearances in Harry, Noon and Night 1964, Journey of the Fifth Horse (Obie Award) 1966, Star Wagon 1966, Fragments 1966, Eh? (Drama Desk, Theatre World, Vernon Rice Awards) 1967, Jimmy Shine 1968; Asst. Dir. A View from the Bridge; Dir. All Over Town. 1974. *Film appearances in* Madigan's Millions 1966, The Graduate 1967, Midnight Cowboy 1969, John and Mary 1969, Little Big Man 1970, Who is Harry Kellerman . . . ? 1971, Straw Dogs 1971, Alfredo Alfredo, Papillon 1973, Lenny 1974, All the President's Men 1975, Marathon Man 1976, May 1978, Straight Time 1978, Agatha 1979. *Leisure interests:* tennis, piano, photography, reading. *Address:* Sweet Wall Productions, 315 East 65th Street, New York, N.Y. 10021, U.S.A. *Telephone:* 212-472-3738.

HOFFMANN, Gene D.; American company executive; b. 29 July 1927, Ill., s. of Edmund Howard Hoffman and Bee Esther Hood; m. Nancy Patterson Claney 1951; one s. one d.; ed. Univ. of Missouri and Cornell Univ.; Marketing positions with Montgomery Ward, Chicago Tribune, Philadelphia Bulletin 1948-56; served in U.S. Navy Air Force during World War II; Advertising, Sales Promotion and Public Relations Man. (St. Louis, Mo.), The Kroger Co. 1956, Marketing Man. Processed Foods Div. 1961, Vice-Pres. Processed Foods Div. 1964, Vice-Pres. Mfg. Div. 1966, Pres. Kroger Food Processing Co. 1969-72, Kroger Brands Co. 1972-74, Dir. 1970-, Sr. Vice-Pres. 1974-75, Pres. 1975-77; Pres. Super Valu Wholesale Food Cos., Vital Resources; fmrly. Vice-Pres. and mem. Bd. Greater Cincinnati Chamber of Commerce, Cancer Family Care Inc.; now mem. Bd. Warner Nat. Corpn., Home State Savings Assen., American Inst. of Management. *Leisure interests:* tennis, reading, gardening, civic work. *Address:* Super Valu Stores Inc, 101 Jefferson Avenue South, Minneapolis, Minn. 55391 (Office); 2859 Gale Road, Woodland, Wayzata, Minn. 55391, U.S.A. (Home). *Telephone:* 612-932-4567 (Office); 612-473-8184 (Home).

HOFFMAN, Grace; American mezzo-soprano singer; b. Cleveland, Ohio; d. of Dave and Hermina Hoffman; ed. Western Reserve Univ. and Manhattan School of Music, New York; completed musical studies in Italy (Fulbright Scholarship); appeared at Maggio Musicale, Florence; guest performance as Azucena (Il Trovatore) Zurich Opera and subsequently mem. of this company for two years; debut at La Scala, Milan as Fricka (Die Walküre); joined Stuttgart Opera 1955 and awarded title of Kammersängerin; has appeared at Edinburgh and Bayreuth festivals; numerous guest appearances in leading roles at Teatro Colón, Buenos Aires, San Francisco Opera, Chicago Lyric Opera, Covent Garden, Metropolitan Opera, the Vienna Opera, in Berlin, Brussels, etc.; numerous oratorio and concert appearances in the major European music centres. *Leisure interests:* her house and furnishing it. *Address:* Bergstrasse 19, 7441 Neckartailfingen, Federal Republic of Germany (Home).

HOFFMAN, Michael L., PH.D.; American economist and journalist; b. 13 June 1915, Salisbury, N.C.; s. of Edwin Hoffman and Mary Lindsay; m. Catherine Legal Hughes 1936; one s.; ed. Oberlin Coll., Ohio and Chicago Univ.; Lecturer in monetary theory and international trade at Oberlin Coll. and Trinity Coll., Connecticut; Consultant U.S. Treasury 1941; Acting Dir. wartime Foreign Funds Control; U.S. Treasury Rep. Allied Force HQ, Algiers, London and Paris; European econ. correspondent The New York Times 1945-56; Dir. Econ. Devt. Inst. of the Int. Bank for Reconstruction and Devt. (IBRD) 1956-61, Dir. Devt. Advisory Service 1962-63; Exec. Vice-Pres. and Dir. Lambert Int. Corpn. 1963-65; Assoc. Dir. Devt. Services Dept., IBRD 1965-73, Dir. Int. Relations Dept. 1973-76; Chevalier, Ordre de la Couronne (Belgium). *Address:* RFD, Vineyard Haven, Mass. 02568, U.S.A. (Home).

HOFFMAN, Ing. Karel; Czechoslovak politician; b. 15 June 1924, Stod; ed. Coll. of Political and Social Science, Prague; worked on Cen. Cttee. of CP of Czechoslovakia; Gen. Dir. Czechoslovak Radio 1959-67; Minister of Culture and Information 1967-68; mem. Ideological Comm. of Cen. Cttee. of CP of Czechoslovakia 1963-69; Dir. Cen. Admin. of Communications May-Sept. 1968; Deputy Chair. Admin. of Fed. Material Reserves Jan.-Sept. 1969; Minister Chair. of Fed. Cttee. for Posts and Telecommunications 1969-71; Minister of Telecommunications 1971; mem. Cen. Cttee. of CP 1966-, Alt. mem. Presidium 1971, mem. 1971-; mem. Presidium of Cen. Cttee. of Nat. Front, C.S.S.R. 1971-; Chair. Cen. Council of Trade Unions 1972-; Deputy to House of the People, Fed. Assembly 1971-, mem. Presidium of Fed. Assembly 1971-; Vice-Chair. World Fed. of Trade Unions 1973-; Order of Labour 1965, Order of Victorious February 1973, Order of the Republic 1974. *Address:* Central Council of Trade Unions, nám. Gustava Klimenta 2, 113 59 Prague 3, Czechoslovakia.

HOFFMANN, Gen. Karl-Heinz; German army officer and politician; b. 28 Nov. 1910, Mannheim; ed. elementary school and Acad. of General Staff, U.S.S.R.; mem. Kommunistische Partei Deutschlands 1930, Sozialistische Einheitspartei Duetschlands (SED) 1946-; apprentice fitter 1925-28; official in Communist Youth Org. 1926-30; emigrated to U.S.S.R. 1935; fought in Spanish Civil War; returned to U.S.S.R.; Kominternschule, U.S.S.R. 1941-43; fought in Second World War; teacher at Antifa-Schulen; in Germany 1946; Party Functions Berlin 1946-49; mem. Volkskammer 1950-; Lieut.-Gen. People's Police and Deputy Minister of Interior 1952-55; mem. Cen. Cttee. SED 1952-, mem. Politburo 1973-; Lieut.-Gen. Nat. People's Army 1956-59, Col.-in-Chief 1959-61, Gen. 1961-; Deputy Minister of Nat. Defence 1956-60, Minister of Nat. Defence 1960-; Rep. of G.D.R. in Supreme Command of Warsaw Pact; Karl-Marx-Ordern, Vaterländischer Verdienstorden in Gold; Scharnhorst-Orden, Red Banner of Labour (U.S.S.R.) and other decorations. *Publications:* Sozialistische Landesverteidigung 1963-1970 1970, Sozialistische Landesverteidigung 1970-1974 1974. *Address:* Ministerium für Nationale Verteidigung, Berlin, German Democratic Republic.

HOFFMANN, Ladislaus von; German international finance official; b. 1927; ed. Univ. of Freiburg; with affiliate of Fed. of German Industries 1950-52; Asst. to Bd., Wasag Chemic AG 1954, Rep. in Middle East 1957-59; with Int. Finance Corpn. (IFC) 1960-, Dir. Dept. of Investments 1965-70, Vice-Pres. IFC 1970-74, Exec. Vice-Pres. 1974-77. *Address:* International Finance Corporation, 1818 H Street, N.W., Washington, D.C. 20433, U.S.A. *Telephone:* EX3-6360.

HOFFMANN, Martin R., LL.B.; American lawyer and politician; b. 20 April 1932, Stockbridge, Mass.; m. Margaret Ann McCabe; three c.; ed. Princeton Univ. and Univ. of Virginia Law School; served U.S. Army 1954-58; Law Clerk in Alexandria, Va.; Asst. U.S. Attorney, D.C. 1962-65; Minority Counsel on House Judiciary Cttee. 1965-66; Legal Counsel to Senator Charles Percy 1967-69; Asst. Gen. Counsel and Asst. Sec. Univ. Computing Co. 1969-71; Gen. Counsel, Atomic Energy Comm. 1971-73; Special Asst. to Sec. and Deputy Sec. of Defense 1973-74, Gen. Counsel of Defense Dept. 1974-75, Sec. of the Army 1975-77. *Address:* c/o Department of the Army, The Pentagon, Washington, D.C. 20310, U.S.A.

HOFFMANN, Roald, PH.D.; American professor of chemistry; b. 18 July 1937, Złoczow, Poland; s. of Paul Hoffmann and Clara Rosen; m. Eva Börjesson 1960; one s. one d.; ed. Columbia and Harvard Univs.; Jr. Fellow, Soc. of Fellows, Harvard Univ. 1962-65; Assoc. Prof. of Chem., Cornell Univ. 1965-68, Prof. 1968-74, John A. Newman Prof. of Physical Science 1974-; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences; Hon. D. Tech. (Royal Inst. of Technology, Stockholm) 1977; American Chem. Soc. Award 1969, Fresenius Award 1969, Harrison Howe Award 1969, Annual Awrd of Int. Acad. of Quantum Molecular Sciences 1970, Arthur C. Cope Award, A.C.S. 1973, Linus Pauling Award 1974. *Publication:* Conservation of Orbital Symmetry 1969. *Address:* Department of Chemistry, Cornell University, Ithaca, N.Y. 14850; 4 Sugarbush Lane, Ithaca, N.Y. 14850, U.S.A. (Home). *Telephone:* 607-256-3419 (Office); 607-273-2389 (Home).

HOFFMEYER, Erik, D.SC.; Danish banker; b. 25 Dec. 1924, Rårup; m. Eva Kemp 1949; ed. Copenhagen University; at Danmarks Nationalbank 1951-59, Econ. Counsellor 1959-62, Chair. of Bd. of Govs. 1965-; Rockefeller Fellow, U.S. 1954-55; Lecturer in Econs., Univ. of Copenhagen 1956, Prof. 1959-64; Gov. Bikuben Savings Bank 1962-64, Chair. of Bd. 1964; Gov. for Denmark to Int. Monetary Fund (IMF) 1965-; Pres. Asscn. of Political Econ. 1951-53; mem. Bd. of Man., Nat. Econ. Soc. 1960-66, Presidium of Econ. Council 1962-65, Bd. of Acad. of Technical Sciences 1963, Econ. Council 1965, Danish Science Advisory Council 1965-72, C. L. David Collection 1967-77, Chair. 1977-, The Housing Mortgage Fund 1969-72; Dir. European Investment Bank 1973-77; Chair. Cttee. of Govs. of Cen. Banks of EEC Countries 1975-76. *Publications:* Dollar Shortage and the Structure of U.S. Foreign Trade 1958, Stabile priser og fuld beskæftigelse 1960, Strukturændringer pd penge-og kapitalmarkedet 1960, Velfærdsteori og velfærdsstat (edited) 1962, Industriel vækst 1963, Dansk pengehistorie (edited) 1968. *Address:* Danmarks Nationalbank, Havnegade 5 DK-1093 Copenhagen K; Hegelsvej 22, DK 2920 Charlottenlund, Denmark. *Telephone:* 01-14 14 11 (Office).

HÖFFNER, H.E. Cardinal Joseph, DR.PHIL., DR.THEOL., DR. SC. POL.; German ecclesiastic; b. 24 Dec. 1906, Horhausen/Westerwald; s. of Paul and Helene (née Schug) Höffner; ed. Gymnasiums of Montabaur and Trier, Priesterseminar Trier, Univs. of Rome and Freiburg i. Br.; theological and philosophical studies till 1943; priest in Trier 1934-45; Prof. Pastoral Theology and Christian sociology, Phil.-Theologisch Fakultät, Trier 1945-51; Prof. Christian Sociology, Univ. of Münster 1951-62; founder and Dir. Inst. für Christliche Sozialwissenschaften, Univ. of Münster; fmr. mem. Union Int. des Etudes sociales, Brussles, Foundation Cttee. for Univ. of Bochum and many working parties and advisory councils; Bishop of Münster 1962-69; Archbishop of Cologne 1969-; cr. Cardinal 1969; Chair. German Conf. of Bishops 1976-; Bundesverdienstkreuz mit Stern und Schulterband. *Publications:* numerous monographs, essays and articles. *Address:* 5000 Cologne, Eintrachtstrasse 164, Federal Republic of Germany. *Telephone:* 20821.

HOFMEISTER, Paul Emil Julius; German business executive; b. 28 April 1909, Bremen; s. of Heinrich Hofmeister and Dora Meijer; m. Elisabeth Sommer 1934; one d.; ed. commercial school; joined Norddeutsche Affinerie 1927, mem. man. 1947, Pres. 1961-76, Chair. 1976-; Chair. Bremer Woll-Kämmerei, Bremen, Otavi Minen AG, Frankfurt; Deputy Chair. Wirtschaftsvereinigung Metalle e.V., Düsseldorf, Fachvereinigung Metallhütten und Umschmelzwerke e.V., Düsseldorf; mem. Bd. H. Maihak AG, Hamburg, Freeport Indonesia Inc., New York; Orden al Mérito Bernardo O'Higgins (Chile). *Leisure interests:* riding, golf. *Address:* Norddeutsche Affinerie, 2000 Hamburg 36, Alsterterrasse 2; 2000 Hamburg 52, Borchlingweg 11, Federal Republic of Germany (Home). *Telephone:* 44-19-61 (Office); 880-41-34 (Home).

HOFMEYR, Murray, M.A.; South African business executive; b. 9 Dec. 1925, Pretoria; s. of William Hendrik and Margarethe Hanna Hofmeyr; m. Johanna Hendrika Verdurmen 1953; three s. two d.; ed. Pretoria High School, Rhodes and Oxford Univs.; joined Anglo American Corpn., Johannesburg 1962, Man. in Zambia 1965-69, Chair. Anglo American Corpn. (Cen. Africa) 1969-72; mem. Bd., Anglo American Corpn. of S.A. Ltd. 1970-72, Exec. Dir. 1972-; Man. Dir. Charter Consolidated Ltd. 1972-, Chair. 1976-. *Leisure interests:* golf, music. *Address:* Charter Consolidated Ltd., 40 Holborn Viaduct, London, E.C.1, England.

HOFSTADTER, Robert, B.S., M.A., PH.D.; American university professor; b. 5 Feb. 1915, New York; s. of Louis and Henrietta Hofstadter; m. Nancy Givan 1942; one s. two d.; ed. City Coll. of New York, Princeton Univ.; Instructor, Univ. of Pa., City Coll., New York 1940-42; Physicist, Nat. Bureau of Standards, Washington, D.C. 1942-43; Asst. Chief Physicist, Norden Labs. Corpn., New York 1943-46; Asst. Prof. of Physics, Princeton Univ. 1946-50, Assoc. Prof. Stanford Univ. 1950-53, Prof. 1954-, Max H. Stein Prof. of Physics 1971-; Dir. High Energy Physics Lab., Stanford Univ. 1967-74; Guggenheim Fellowship 1958-59; Assoc. Ed. Physical Review 1951-53, Review of Scientific Instruments 1954-56, Reviews of Modern Physics 1958-61; mem. Nat. Acad. of Sciences 1958-; Fellow, American Physical Soc., Physical Soc. of London; mem. Italian Physical Soc., American Acad. of Arts and Sciences 1970; mem. Bd. of Govs., Weizmann Inst. of Science, Rehovoth, Israel; Assoc. Linus Pauling Inst. of Science and Medicine 1974-; Calif. Scientist of Year 1959; Nobel Prize Winner in Physics 1961, other prizes and awards. *Publications:* Nuclear and Nucleon Structure, Joint author High-Energy Electron Scattering Tables, over 200 scientific papers, Co-Ed. Investigations in Physics 1951-, Nuclear Structure, Assoc. Ed. Reviews in Modern Physics. *Address:* Department of Physics, Stanford University, Stanford, Calif. 94305, U.S.A. *Telephone:* 415-321-2300.

HOFSTRA, Hendrik Jan; Netherlands lawyer; b. 28 Sept. 1904, Amsterdam; s. of Jan Hofstra and Harmina Fricke; m. Wilhelmina Odilia Petri 1926; one s.; tax inspector prior to 1939, tax consultant 1939-45; mem. Second Chamber of States Gen. 1945-56; Dir. Cen. Life Insurance Bank, The Hague and Cen. Gen. Insurance Co., The Hague prior to 1956; Minister of Finance 1956-58; Gov. European Investment Bank 1956-58; Vice-Pres. Verolme United Shipyards, Rotterdam 1961-66; Prof. Leiden Univ. 1966-75; mem. Labour Party; Knight of the Netherlands Lion; Commdr. Order of Orange-Nassau. *Publications:* Socialistische Belastingpolitiek 1946, Inleiding Nederlands Belastingrecht 1970, Inkomstenbelasting 1975. *Leisure interests:* gardening, music. *Address:* Hoek van Hollandlaan 8, The Hague, Netherlands. *Telephone:* 256172.

HOGAN, Hon. Sir Michael Joseph, Kt., C.M.G., Q.C., B.A., LL.D.; British lawyer; b. 15 March 1908, Dublin; s. of Timothy and Mary Hogan; m. Patricia Galliford 1946; ed. Belvedere Coll., Stonyhurst Coll., and Trinity Coll., Dublin Univ.; admitted solicitor, Ireland 1930, Kenya Bar 1931, called to Irish Bar 1936; Chief Magistrate, Palestine 1936; Crown Counsel 1937; Attorney-Gen., Aden 1945; called to Inner Temple 1946; Solicitor-Gen., Palestine 1947; attached to Foreign Office 1949; Solicitor-Gen. Malaya 1950, Attorney-Gen. 1950-55; Chief Justice, Hong Kong 1955-70, Chief Justice, Brunei 1964-70; Pres. Brunei Court of Appeal 1970-73; Judge, Court of Appeal, Gibraltar 1970-; Judge, Courts of Appeal, Bahamas, Bermuda and Belize 1970-75, Pres. 1975-; Pres. Seychelles Court of Appeal 1977-; mem. Anglo-Japanese Property Comm. (appointed under Peace Treaty). *Leisure interests:* golf, bridge. *Address:* 2 Carlyle Mansions, Cheyne Walk, London, S.W.3, England. *Telephone:* 01-351 1360.

HOGG, Sir John Nicholson, Kt., M.A.(OXON.); British banker; b. 4 Oct. 1912, Bombay, India; s. of late Sir Malcolm Hogg and of Lorna Beaman; m. Elizabeth Garmoyle 1948; one s. one d.; ed. Eton Coll. and Balliol Coll., Oxford; joined Glyne Mills and Co. 1934; war service with King's Royal Rifle Corps 1939-45; returned to Glyn Mills and Co. 1945, Man. Dir. 1950, Deputy Chair. 1963-68, Chair. 1968-70; Chair. Banque Française de Crédit Int., Abu Dhabi Investment Bd. 1967-75; Chair. Advisory Council of Export Credit Guarantee Dept. 1962-67; Deputy Chair. Williams and Glyn's Bank Ltd.; Deputy Chair. Gallaher Ltd. until 1978; Dir. Honeywell Ltd., Prudential Assurance Co. Ltd., Nat. Commercial Banking Group Ltd.; Fellow Eton Coll. 1951-70; mem. Commonwealth War Graves Comm. 1958-64; Sheriff County of London 1960; Hon. T.D. *Leisure interests:* cricket, fishing, gardening. *Address:* 67 Lombard Street, London, E.C.3 (Office); The Red House, Shedfield, Southampton, England (Home). *Telephone:* 623-4356 (Office); Wickham 832121 (Home).

HOGGART, (Herbert) Richard; British writer and educator; b. 24 Sept. 1918, Leeds; s. of Tom Longfellow Hoggart and Adeline Emma Hoggart; m. Mary Holt France 1942; two s. one d.; ed. Leeds Univ.; Royal Artillery 1940-46; Staff Tutor and Sr. Staff Tutor, Univ. Coll. of Hull and Univ. of Hull 1946-59; Sr. Lecturer in English, Univ. of Leicester 1959-62; Visiting Prof. Univ. of Rochester, N.Y. 1956-57; Prof. of English, Birmingham Univ. 1962-73; mem. Albemarle Cttee. on Youth Services 1958-60, Youth Service Devt. Council 1960-62, Pilkington Cttee. on Broadcasting 1960-62; Gov. Birmingham Repertory Theatre 1963-70; Dir. Centre for Contemporary Cultural Studies 1964-73; mem. BBC Gen. Advisory Council 1959-60, 1964-70, Arts Council of G.B. 1976-, Culture Advisory Cttee. of U.K. Nat. Comm. to UNESCO 1966-70, Communications Advisory Cttee. of U.K. Nat. Comm. to UNESCO 1977-; Chair. Arts Council Drama Panel 1977-, Advisory Council for Adult and Continuing Educ. 1977-, The Statesman and Nation Publishing Co. Ltd. 1978-; Pres. Modern Language Assn. 1977; Gov. Royal Shakespeare Theatre 1966-; Asst. Dir.-Gen. for Social Sciences, Humanities and Culture UNESCO 1970-75; Warden of Goldsmiths' Coll. 1976-; BBC Reith Lecturer 1971; Hon. D. Univ. (Open Univ.) 1972, Hon. D.-ès-L. (Bordeaux) 1974, Hon. D. Litt. (Leeds) 1978. *Publications:* Auden 1951, The Uses of Literacy 1957, W. H. Auden—A Selection 1961, Teaching Literature 1963, The Critical Moment 1964, How and Why Do We Learn 1965, Essays in Literature and Culture 1969, Speaking to each other 1970, Only Connect 1972, An Idea and Its Servants 1978. *Address:* Goldsmiths' College, Lewisham Way, New Cross, London, SE14 6NW, England.

HØJDAHL, Odd; Norwegian trade unionist and politician; b. 5 Jan. 1921, Oslo; Vice-Pres. Landsorganisasjonen i Norge (LO) (Norwegian Fed. of Trade Unions) 1969-77; Minister of Social Affairs 1971-72; Dir. Norwegian Developing Aid Directorate, Tiden Norsk Forlag, Arbeiderbladet (daily newspaper), Aktietrykkeriet (printing firm) and the state-run Iron and Steel works; Del. and Adviser, ILO congresses and UN Gen. Assembly; Labour. *Address:* Landsorganisasjonen i Norge, Folkets Hus, Youngsgt. 11, Oslo, Norway.

HOLAN, Vladimir; Czechoslovak poet; b. 16 Sept. 1905, Prague; clerk Pensions Inst. 1927-33; Ed. Život periodical 1933-38, Program D40 periodical 1939-40; freelance writer 1940-; State Prize 1948, 1965, Sicilian Prize Etna Taormina 1967, Nat. Artist 1968, Int. Grand Prix for Poetry, Belgium 1974. *Publications:* Blouznivý vějíř, Triumf smrti, Kolury, Vanutí, Torso, Oblouk, Kameni, přicházíš . . . , Září 1938, Sen, Záhřmotí, První testament, Lemuria, Chór, Terezka Planetová, Cesta mraku, Dík Sovětskému svazu, Panychida, Havraním brkem, Zpěv tříkrálový, Rudoarmějci, Tobě, První básně, Dokument, Prostě, Bajaja, Tři, Mozartiana, Nočni hlídka srdce, Příbehy, Na postupu, Noc s Hamletem, Trialog, Bolest, Na sotnách, Asklépiovi kohouta, Noc s Ofélií, Jeskyně slov, Ale je hudba, Lamento, Babyloniaca, and translations of Rilke, Baudelaire, Ronsard, Lermontov, Nízámí, Lenau, La Fontaine, Słowacki, Mickiewicz, Cros, Laforgue, Apollinaire, Vildrac, Supervielle, etc. *Address:* 110 00 Prague 1, Staré Mèsto, U lužického Semináře 18, Czechoslovakia. *Telephone:* 532377.

HOLAS, B. (Théophile), D.DE L'UNIV.; French ethnologist; b. 28 Sept. 1909; ed. Univ. de Paris à la Sorbonne; Dir. Centre des Sciences humaines, Abidjan; Curator, Nat. Museum of Ivory Coast; scientific missions in Africa, North and South America, Far East and Oceania; mem. Acad. des Sciences d'Outre-mer, Int. African Inst., London, Soc. des Gens de Lettres, Paris; Commdr. de l'Ordre national and several other awards. *Publications:* Mission dans l'est libérien 1952, Les masques kono 1952, Le culte de Zié 1955, Les Sénoufo 1957, Cultures matérielles de la Côte d'Ivoire 1960, Changements sociaux 1961, Les Toura 1962, La Côte d'Ivoire: passé, présent, perspectives 1964, La sculpture Sénoufo 1964, Les religions de l'Afrique noire 1964, Le séparatisme religieux en Afrique noire 1965, Industries et cultures en Côte d'Ivoire 1965, Arts de la Côte d'Ivoire 1966, Craft and Culture in the Ivory Coast 1968, L'image du monde bété 1968, Les dieux d'Afrique noire 1968, La pensée africaine 1971, Le Gagou 1975, Contes kono 1975, Civilisations et arts de l'ouest africain 1976. *Address:* B.P. 1600, Abidjan, Ivory Coast; 12 rue Vavin, 75006 Paris, France.

HOLBROOK, David Stearns; Canadian steel executive; b. 17 July 1912, St. Louis, Mo., U.S.A.; s. of Harold Lyman and Lucy (Styring) Holbrook; m. Marguerite Somers 1931; two s. one d.; ed. Pittsburgh Univ.; Steam Engineer, Carnegie Steel Co., Youngstown 1933-35; Project Engineer, Carnegie-Illinois Steel Corpn. 1935-40; Asst. Chief Engineer, Homestead Works, Carnegie-Illinois Steel Corpn. 1940-44; Asst. Gen. Man., Algoma Steel Corpn. Ltd., Sault Sainte Marie, Ontario, Canada 1944-45, Exec. Asst. to Pres. 1945-46, Vice-Pres. 1946-49, Exec. Vice-Pres. 1949-56, Pres. 1956-, Chair. and Pres. 1962-; Vice-Pres. Cannelton Industries Ltd.; Dir. Dominion Bridge Co. Ltd., The Royal Bank of Canada, Du Pont of Canada Ltd.; Hon. LL.D.(Laurentian Univ.) 1968. *Leisure interests:* golf, boating. *Address:* c/o The Algoma Steel Corporation Ltd., Sault Ste. Marie, Ontario, Canada. *Telephone:* 945-2700.

HOLDEN, Roberto; Angolan nationalist leader; b. 1925, São Salvador, Northern Province; ed. Belgian Congo (now Zaire); worked in Finance Dept., Belgian Admin., Léopoldville (now Kinshasa), Stanleyville (now Kisangani) and Bukavu; founded União das Populacões de Angola (UPA) 1954; travelled widely in Africa and Europe; attended first and second All African Peoples Confs. Accra 1958, Tunis 1960; elected to the Steering Cttee., Tunis;

founded La voix de la nation angolaise, a fortnightly newspaper; assumed leadership of guerrilla liberation operations against the Portuguese in Angola; made several trips to U.S.A. 1961; became leader of Frente Nacional de Libertação de Angola (FNLA) when UPA merged with Partido Democrático Angolano (PDA) March 1962; Premier of Angolan govt. in exile, Governo Revolucionário de Angola no Exílio (GRAE) 1962; leader of defeated FNLA forces in Angolan civil war after Portuguese withdrawal Nov. 1975.

HOLDEN, William (William Franklin Beedle Jr.); American actor; b. 17 April 1918, O'Fallen, Ill.; s. of William Franklin Beedle; m. Brenda Marshall 1941 (divorced); two s.; *Films include:* Golden Boy 1939, Invisible Stripes 1940, Our Town 1940, Those Were the Days 1940, Arizona 1940, I Wanted Wings 1941, Texas 1941, The Remarkable Andrew 1942, Meeting of the Stewarts 1942, Young and Willing 1943, Blaze of Noon 1947, Dear Ruth 1947, Rachel and the Stranger 1948, Apartment for Peggy 1948, The Streets of Laredo 1949, Miss Grant Takes Richmond 1949, Dear Wife 1949, Sunset Boulevard 1950, Union Station 1950, Born Yesterday 1950, Boots Malone 1952, The Turning Point 1952, Stalag 17 1953, The Moon is Blue 1953, Forever Female 1953, Sabrina 1954, The Country Girl 1954, The Bridges at Toko-Rio 1954, Love is a Many Splendored Thing 1955, Picnic 1955, The Bridge over the River Kwai 1957, The World of Suzie Wong 1960, The Lion 1962, Paris When it Sizzles 1964, The Seventh Dawn 1964, Alvarez Kelly 1966, Casino Royale 1967, The Devil's Brigade 1968, The Christmas Tree 1969, The Wild Bunch 1969, The Wild Rovers 1971, The Revengers 1972, Breezy 1973, The Towering Inferno 1974, Open Season 1974, Network 1976, Damien-Omen II 1978, Fedora 1978; made television début in The Blue Knight 1972; also in 21 Hours at Munich, 1972; Academy Award for Best Actor, Stalag 17. *Address:* c/o Gordean-Friedman Agency Inc., 9229 Sunset Boulevard, Los Angeles, Calif. 90069, U.S.A.

HOLDEN-BROWN, Derrick; British company director; b. 14 Feb. 1923, Surrey; s. of Harold Walter and Beatrice Florence (née Walker) Holden-Brown; m. Patricia Mary Ross Mackenzie 1950; one s. one d.; ed. Westcliff; served Royal Navy 1941-46; Chartered Accountant 1948; Hiram Walker and Sons, Distillers 1949; Man. Dir., Cairnes Ltd., Brewers, Eire 1954, Grants of Saint James's Ltd. 1960; Dir. Ind Coope Ltd. 1962; Chair. Victoria Wine Co. 1964; Dir. Allied Breweries Ltd. 1967, Finance Dir. 1972, Vice-Chair. 1975-; Dep. Chair. FDIC 1974-76; Chair. Brewers Soc. 1978-; mem. Inst. of Chartered Accountants of Scotland. *Leisure interests:* sailing, offshore cruising. *Address:* Copse House, Milford-on-Sea, Hampshire, England. *Telephone:* Milford-on-Sea 2247.

HOLDSWORTH, George Trevor, F.C.A.; British accountant and business executive; b. 29 May 1927, Bradford; m. Patricia June Ridler 1951; three s.; ed. Keighley Grammar School and Hanson Grammar School, Bradford; with Rawlinson, Greaves and Mitchell (accountants), Bradford 1944-50; Auditor, Laport Industries Ltd. 1950-51; with Bowater Paper Corpn. 1952-63, becoming Dir. and Controller of U.K. paper making cos.; Deputy Group Chief Accountant, Guest Keen and Nettlefolds Ltd. 1965-67, Gen. Man. Dir., GKN Screws and Fasteners Ltd. 1968-70, Group Exec. Vice-Chair., Corpn. Controls and Services, and Group Deputy Chair. 1974-, Man. Dir. 1977-; mem. Council, British Inst. of Man. 1974-, C.B.I. 1974-; Dir. Equity Capital for Industry Ltd. 1976-, Thorn Electrical Industries Ltd. 1977-. *Leisure interest:* music. *Address:* Guest Keen & Nettlefolds Ltd., P.O. Box 55, Smethwick, Warley, West Midlands, B66 2RZ; GKN House, 22 Kingsway, London, WC2B 6LG, England. *Telephone:* 021-558-3131 (Warley), 01-242 1616 (London).

HOLLAENDER, Alexander, M.A., PH.D.; American radiation biologist; b. 19 Dec. 1898, Samter, Germany; m. Henrietta Wahlert 1925; ed. Univ. of Wisconsin; Asst. in Physical Chem., Univ. of Wis. 1929-31; Nat. Research Council Fellow in Biological Sciences 1931-33; Investigator, Rockefeller Foundation 1934; Investigator in charge of Nat. Research Council Wisconsin Radiation Project 1934-37; Washington Biophysics Inst., Assoc. Biophysicist 1937-38, Biophysicist 1938-41, Sr. and Prin. Biophysicist 1945-46, Head Biophysicist 1946-50; attached to Office of Scientific Research and Devt. Atomic Energy Comm. 1940-45; Dir. Biology Division, Oak Ridge (Tenn.) Nat. Lab. 1946-66, Sr. Research Adviser 1967-74; Pres. Comité Int. de Photobiologie 1954-60, Hon. Pres. 1964-; Free mem. of the Exec. Cttee. 1960-64; Chair. Nat. Research Council Photobiology Cttee. 1955-60; mem Radiobiology Sub-cttee.; mem. Genetic Effects of Atomic Radiation Panel, Nat. Acad. of Sciences 1956-63; Prof. of Radiation Biology, Univ. of Tenn. 1957-66, Prof. of Biomedical Sciences 1967-75, Dir. Archives of Radiation Biology 1966-; mem. Cttee on Int. Exchange of Persons, Biology Advisory Cttee., Italian Nat. Nuclear Research Cttee. 1957-; Pres. Int. Assen. for Radiation Research 1962-66, Hon. Pres. 1966-; Pres. Environmental Mutagen Soc. 1969-71; Pres. Int. Assen. of Environmental Mutagen Socs. 1974-77; Fellow, American Acad.; mem. Nat. Acad. of Sciences; Foreign mem. Brazilian Acad.; Foreign Fellow, Indian Nat. Science Acad.; Hon. Sc.D.(Univ. of Vermont) 1959; Hon. D.Sc. (Leeds, Marquette, Wisconsin); Hon. M.D. (Univ. of Chile Medical School); Prof. Honoris Causa, Fed. Univ. of Rio de Janeiro. *Publications:* a very large number of papers in learned periodicals 1929–. *Leisure interests:* palaeontology, modern art, hiking. *Address:* Associated Universities Inc., 1717 Massachusetts Avenue, N.W., Washington, D.C. 20036, U.S.A. *Telephone:* 202-462-4475 (Office); 202-332-0477 (Home).

HOLLAI, Imre; Hungarian diplomatist; b. 22 Jan. 1925; m.; entered Foreign Service 1949; Counsellor Perm. Mission of Hungary to UN 1956-60; Head of Int. Dept., Cen. Cttee., Hungarian Socialist Workers' Party 1960-63; Amb. to Greece, concurrently accred. to Cuprus 1964-70; Deputy Minister of Foreign Affairs 1970-74; Perm. Rep. to UN Sept. 1974-. *Address:* Permanent Mission of Hungary to the United Nations, 10 East 75th Street, New York, N.Y. 10021, U.S.A.

HOLLÁN, R. Susan, Hungarian professor of haematology; b. 26 October 1920, Budapest, d. of Dr. Henrik Hollán and Dr. Malvin Hornik; m. Dr. György Révész; one s. and one d.; ed. Univ. Medical School, Budapest; Internist Rokus Hospital Budapest 1945-50; Research Fellow Univ. Med. School Budapest 1950-54; Science Adviser Inst. for Experimental Medical Research 1954-; Dir. Nat. Inst. of Haematology and Blood Transfusion 1959-; Prof. of Haematology, Postgraduate Med. School 1970-; Corresp. mem. Hungarian Acad. of Sciences 1973, mem. of Pres. 1976-; Vice-Pres. Int. Soc. of Haematology and Int. Soc. of Blood Transfusion; Hon. mem. Polish Soc. of Haematology, German Soc. of Haematology (FRG), Purkinje Soc; Foreign Corresp. mem. Soc. de Biologie, Collège de France, Paris; Vice-Pres. Hungarian Soc. of Haematology; Hon. Pres. Hungarian Soc. of Human Genetics; mem. WHO Expert Cttee. on Biological Standardization in Haematology; mem. Clinical and Immunological Work Cttee. of Hungarian Acad. of Sciences; mem. Bd. of Special Cttee. for Clinical Sciences; Exec. mem. Hungarian Medical Research Council; Editor-in-Chief Hungarian Medical Encyclopaedia and Haematologia (quarterly). Hungarian Academic Award 1970; State Prize 1974. *Publications:* Basic Problems of Transfusion 1965, Haemoglobins and Haemoglobinopathies 1972; over 200 papers in Hungarian and international medical journals. *Leisure interest:* fine arts. *Address:* Daróci ut 24, 1113 Budapest (Office); Keleti Károly-utca 15/a, Budapest 2, Hungary (Home). *Telephone:* 666-004 (Office); 152-091 (Home).

HOLLAND, Eric Sidney Fostyn; New Zealand politician and business executive; b. 28 June 1921, Christchurch; s. of the late Sir Sidney Holland (former Prime Minister of New Zealand) and Lady (Florence) Holland; m. 1st 1944, 2nd 1972; one s. two d.; ed. Elmwood School, St. Andrew's Coll. and Canterbury Univ. Coll.; M.P. 1967-; Minister of Housing, Minister in Charge of State Advances Corpn. and Assoc. Minister of Labour Feb.-Nov. 1972; Minister of Energy Resources, Electricity and Mines 1975-77, of Housing 1977-78; National Party. *Leisure interests:* golf, contract bridge, lawn bowls. *Address:* Parliament Building, Wellington; 7 Moorpark Place, Christchurch, New Zealand (Home). *Telephone:* 723-649 (Parliament); 556-611 (Home).

HOLLAND, Jerome H., PH.D., LITT.D., LL.D.; American diplomatist; b. 9 Jan. 1916, Auburn, N.Y.; s. of Robert H. and Viola Bagby Holland; m. Laura Mitchell 1948; two s. two d.; ed. Cornell Univ. and Univ. of Pennsylvania; Instructor in Sociology, Lincoln Univ., Pa. 1939-42; Dir. of Personnel, Sun Shipbuilding and Drydock Co., Pa. 1942-46; Dir. Div. of Political and Social Science, Tennessee A. and I. State Univ. 1946-51; Social Research Consultant, Pew Memorial Foundation of Philadelphia 1951-53; Pres. Delaware State Coll. 1953-60; Pres. Hampton Inst., Va. 1960-70; Amb. to Sweden 1970-72; mem. Bd. American Telephone and Telegraph Co., Gen. Foods Corpn., Manufacturers Hanover Corpn., The Continental Corpn., Chrysler Corpn., Federated Department Stores Inc., Culbro Corpn., Union Carbide Corpn., New York Stock Exchange, Zurn Industries Inc., Pan American Bancshares Inc.; Dir. American Man. Assen., American Arbitration Assen.; mem. Corpn. of M.I.T.; Dir. United Negro College Fund; Vice-Chair. American Nat. Red Cross, Salvation Army Greater New York Advisory Bd., Nat. Conf. of Christians and Jews; life mem. Nat. Assen. for the Advancement of Colored People; mem. American Political Science Acad., Acad. of Arts and Sciences; Trustee Cornell Univ., Nat. Geographic Soc.; 21 hon. degrees. *Publications:* A Sociological Analysis of the Problems of Public School Desegregation and Integration in Delaware 1955, Status of Negro Employment in Delaware 1956, Patterns of Negro Residency in Delaware 1957, Health of Negroes in Delaware

1958, Black Opportunity 1969. *Leisure interests:* sports (table tennis, billiards, football). *Address:* 36 Warwick Road, Bronxville, N.Y. 10708, U.S.A.

HOLLAND-MARTIN, Edward; British banker; b. 8 March 1900, London; s. of Robert Martin Holland-Martin and Eleanor Mary (née Bromley-Martin); m. Dagny Mary MacLean Grant 1955; one d.; ed. Eton Coll. and Christ Church, Oxford; Martin's Bank 1923-33; Dir. Bank of England 1933-48; Dir. Bank of London and South America 1948-71, Deputy Chair. 1952-71; Dir. Racecourse Holdings Trust Ltd. *Leisure interests:* racing, horse-breeding, country pursuits. *Address:* Overbury Court, Worcester, England.

HOLLANDER, John, PH.D.; American poet and professor of English; b. 28 Oct. 1929, New York; s. of Franklin and Muriel (Kornfeld) Hollander; m. Anne Loesser 1953 (divorced 1977); two d.; ed. Columbia Univ., Harvard Univ., and Indiana Univ.; Lecturer in English, Connecticut Coll. 1957-59; Instructor in English, Yale Univ. 1959-61, Asst. Prof. of English 1961-64, Assoc. Prof. 1964-66; Prof. of English, Yale Univ. 1977-; Prof. of English, Hunter Coll., New York 1966-77; Christian Gauss Seminarian, Princeton Univ. 1962; Visiting Prof., School of Letters and Linguistic Inst., Indiana Univ. 1964; Visiting Prof. Seminar in American Studies, Salzburg, Austria 1965; editorial assoc. for poetry Partisan Review 1959-65; mem. poetry bd. Wesleyan Univ. Press 1959-62; mem. U.S. Acad. of Arts and Sciences, English Inst.; Fellow Ezra Stiles Coll., Yale Univ. 1961-64; Overseas Fellow Churchill Coll., Univ. of Cambridge 1967-68; Fellow Nat. Endowment for Humanities 1973-; Levinson Prize 1964, Nat. Inst. of Arts and Letters Award 1963. *Publications include:* A Crackling of Thorns 1958, The Untuning of the Sky 1961, Movie-Going and Other Poems 1962, Visions from the Ramble 1965, Types of Shape 1969, The Night Mirror 1971, Town and Country Matters 1972, Selected Poems 1972, The Head of the Bed 1974, Tales Told of the Fathers 1975, Vision and Resonance 1975, Reflections on Espionage 1976, Spectral Emanations 1978, In Place 1978, Blue Wine 1979; contributor of numerous poems and articles to journals; editor and contributing editor of numerous books including: Poems of Ben Jonson 1961, The Wind and the Rain 1961, Jiggery-Pokery 1966, Poems of Our Moment 1968, Modern Poetry: Essays in Criticism 1968, American Short Stories since 1945 1968, The Oxford Anthology of English Literature (with Frank Kermode, *q.v.*) 1973, For I. A. Richards: Essays in his Honor 1973, Literature as Experience (with Irving Howe and David Bromwich) 1979; contributing editor Harper's magazine 1969-71. *Address:* c/o Dept of English, Yale University, New Haven, Conn. 06520; 3 Loomis Place, New Haven, Conn. 06511, U.S.A.

HOLLANDER, Franciscus Querien den; Netherlands mechanical engineer; b. 31 May 1893, Goes; ed. Technical Univ. of Delft; trained with Holland Railway Co. 1916-17; employed by Netherlands Indies State Railways 1918-37; Asst. Man. Govt. Artillery Establishments, Hembrug 1938-40, Gen. Man. 1940; Perm. Under-Sec., Min. of Econ. Affairs 1945; Man. Dir. of Traffic, Min of Transport 1945-46; Gen. Man. and Acting Pres. of Netherlands Railway 1946-47, Pres. 1947-59; Hon. Life Fellow Permanent Way Inst.; F.R.S.A.; Hon. mem. Inst. of Transport, Inst. of Railway Signal Engineers, Inst. of Mech. Engineers, London, Royal Inst. of Eng., The Hague, etc.; Hon. Dr. of Technical Sciences (Delft Technological Univ.); Knight Order of Netherlands Lion, Grand Officer Order of Orange-Nassau, Officier de la Légion d'honneur, Commdr. Order Dannebrog (Denmark), Order of North Star (Sweden), Order Grand Ducal Couronne de Chêne (Luxembourg), Kroonorde (Belgium), Order Star of Africa (Liberia), Ordine al merito della Repubblica Italiana, Cross Goldene Ehrenzeichen (Austria). *Address:* 9A Amersfoortse Weg, Maarn, The Netherlands. *Telephone:* 03432-1355.

HOLLENSEN, Frede, M.A.(ECON.); Danish banker and international official; b. 8 March 1918, Soenderborg; s. of late Holger Hollensen and of Marie Hollensen (née Hansen); m. Lilly Enrum 1946; two s.; ed. Univ. of Copenhagen; teacher in Econs., Copenhagen School of Econs. and Business Admin. 1943-56; with Nat. Bank of Denmark 1943-76, Accounts Dept. 1943-45, Secretariat 1945-53, Deputy Head of Secr. 1949-53, Head of Capital Transfer Dept. 1953-68, Dir. of Dept. 1968-71, Dir. of Exchange Regulations Dept. 1971-76, on leave 1976-78; Exec. Dir. of IMF for Denmark, Finland, Iceland, Norway, Sweden 1976-78; mem. various cttees. for Nordic econ. co-operation 1954-59, OEEC (later OECD) cttees. 1955-62, EEC cttees. 1973-76; study courses in U.K. 1950, U.S.A. 1954, Australia, New Zealand, Thailand 1965; Kt., Order of Dannebrog. *Publications:* Papers and contributions to books on monetary questions, exchange control and foreign borrowing. *Address:* c/o Ministry of Foreign Affairs, Copenhagen; 34 Skovtoftebanken, 2830 Virum, Denmark. *Telephone:* (02) 858756.

HÖLLERER, Walter Friedrich, DR.PHIL.; German writer and critic; b. 19 Dec. 1922, Sulzbach-Rosenberg, Bavaria; s. of Hans and Christine Höllerer, née Pürkner; m. Renate von Mangoldt 1965; two s.; ed. Univs. of Erlangen, Göttingen and Heidelberg; Dozent in German Studies, Frankfurt/Main Univ. 1958, Münster Univ. 1959; Ord. Prof. of Literature, Berlin Technical Univ. 1959-, Dir. Inst. für Sprache im technischen Zeitalter 1961-; Steuben Visiting Prof., Univ. of Wis. 1960; Dir. Literarisches Colloquium, Berlin 1963-; Prof. Univ. of Ill., Urbana 1973; Ed. Akzente: Zeitschrift für Dichtung 1954 (now co-publr.), Sprache im technischen Zeitalter 1961 (now publr.); publr. Literatur als Kunst; mem. German PEN Club, Akad. für Sprache und Dichtung, Berlin Acad. of Arts, Group 1947, Communità Europea degli Scrittori, Schutzverband der Schriftsteller deutscher Sprache; Fontane Prize, Johann Heinrich Merck Prize. *Publications:* Der andere Gast (poems) 1952, 1964, Transit: Lyrikbuch der Jahrhundertmitte (anthology) 1956, Zwischen Klassik und Moderne: Lachen und Weinen in der Dichtung einer Übergangszeit (essays) 1958, Junge Amerikanische Lyrik 1961, Spiele in einem Akt 1962, Gedichte 1964, Theorie der Modernen Lyrik 1965, Modernes Theater auf Kleinen Bühnen 1966, Ein Gedicht und sein Autor (poems and essays) 1967, Ausserhalb der Saison (poems) 1967, Systeme (poems) 1969, Dramaturgisches (correspondence with Max Frisch *q.v.*) 1969, Die Elephentenuhr (novel) 1973, Hier wo die Welt anfing 1974, Alle Vögel alle (comedy) 1978, Übern Damm und durch die Dörfer (essays) 1978. *Address:* Heerstr. 99, 1 Berlin 19, Federal Republic of Germany. *Telephone:* 304-58-79.

HOLLEY, Robert W., PH.D.; American biochemist; b. 28 Jan. 1922, Urbana, Ill.; s. of Charles E. and Viola E. Holley; m. Ann Dworkin 1945; one s.; ed. Univ. of Illinois, Cornell Univ. and State Coll. of Washington; Asst. Prof. and Assoc. Prof. of Organic Chem., Cornell Univ., N.Y., State Agricultural Experiment Station 1948-57; Research-Chemist U.S. Plant, Soil and Nutrition Lab., ARS, USDA 1957-64; at Cornell Univ. Prof. of Biochemistry and Molecular Biology 1964-69, Chair. of Dept. 1965-66; Resident Fellow, Salk Inst. for Biological Studies 1968-; Albert Lasker Award for basic medical research 1965, U.S. Dept of Agric., Distinguished Service Award 1965, U.S. Steel Foundation Award in Molecular Biology, Nat. Acad. of Sciences 1967, Nobel Prize for Medicine (with M. Nirenberg and H. G. Khorana) for work on the genetic code and its function in protein synthesis 1968. *Address:* The Salk Institute for Biological Studies, P.O. Box 1809, San Diego, Calif. 92112, U.S.A. *Telephone:* 714-453-4100.

HOLLIGER, Heinz; Swiss oboist and composer; b. 1939, Langenthal; ed. in Berne, Paris and Basel under Emile Cassagnaud (oboe) and Pierre Boulez (composition); teacher of oboe, Freiberg Music Acad. 1965-; has appeared at all the major European music festivals and in Japan, U.S.A., Australia, Israel, etc.; recorded over 80 works, mainly for Philips and Deutsche Grammophon; recipient of several international prizes. *Compositions include:* Der magische Tänzer, Trio, Siebengesang, Wind Quintet, Dona nobis pacem, Pneuma, Psalm, Cardiophonie, Kreis, String Quartet, Atembogen, Die Jahreszeiten, Come and Go, Not I. *Address:* c/o Ingpen & Williams, 14 Kensington Court, London, W.8, England.

HOLLINGS, Ernest F., B.A., LL.B.; American lawyer and politician; b. 1 Jan. 1922; m. 2nd Rita Liddy 1971; two s. two d. (by previous marriage); ed. Charleston Public Schools, The Citadel and Univ. of S. Carolina; served U.S. Army 1942-45; admitted to S. Carolina Bar 1947; mem. S. Carolina House of Reps. 1948-54, Speaker *pro tem.* 1951-53; Lieut.-Gov. of S. Carolina 1955-59, Gov. of S. Carolina 1959-63; law practice, Charleston 1963-66; Senator from S. Carolina 1966-; Chair. Democratic Senatorial Campaign Cttee. 1971-73; mem. Hoover Comm. on Intelligence Activities 1954-55, President's Advisory Comm. on Intergovernmental Relations 1959-63; mem. Senate Cttees. on Appropriations, Commerce, Budget; mem. Democratic Policy Cttee., Office of Tech. Assessment, Nat. Ocean Policy Study; Democrat. *Address:* Room 115, Russell Senate Office Building, Washington, D.C. 20510 (Office); Boyce's Wharf, Charleston, S. Carolina 29401, U.S.A. (Home).

HOLLIS, Rt. Rev. Arthur Michael, M.A., B.D. ; British ecclesiastic; b. 23 June 1899; ed. Trinity Coll., Oxford; ordained Deacon 1923, Priest 1924; Curate St. Andrew's, Huddersfield 1923-24; Chaplain and Lecturer Hertford Coll., Oxford 1924-31, Fellow 1926-31; Examining Chaplain to Bishop of Ripon 1926-31; Lecturer St. Peter's, Leeds 1931; S.P.G. Missionary, Bishop's Theological Seminary, Nazareth, Tinnevelly 1931-37; Perpetual Curate of Charlton Kings 1937-42; Bishop of Madras 1942, Bishop in Madras, Church of South India 1947-54, Moderator 1948-54; Prof. United Theological Coll. Bangalore 1955-60; Visiting Prof., Vanderbilt Divinity School, Nashville 1960; Luce Prof. World Christianity, Union Theological Seminary, New York 1961; Rector of Todwick 1961-64;

Asst. Bishop of Sheffield 1963-66, of St. Edmundsbury and Ipswich 1966-74. *Publications:* Paternalism and the Church, The Significance of South India, Mission, Unity and Truth.

HOLLOM, Sir Jasper (Quintus), K.B.E.; British banker b. 16 Dec. 1917, Bromley, Kent; s. of Arthur Hollom and Kate Louisa Hollom; m. Patricia Elizabeth Mary Ellis 1954; ed. King's School, Bruton; entered Bank of England 1936, Deputy Cashier 1956-62, Chief Cashier 1962-66, Exec. Dir. 1966-70; Deputy Governor 1970-; Co-Chair., Dept of Trade/Bank of England review body to supervise the City. *Address:* c/o Bank of England, Threadneedle Street, London EC2R 8AA.

HOLLOWAY, J. E., B.A., D.SC. (ECON.), D.COM.; South African businessman and diplomatist; b. 4 July 1890, Hopetown District; s. of George J. Holloway and Hester M. Enslin; m. Christina Purchase 1913 (died 1967); one s. four d.; ed. Victoria Coll., Ghent Univ. and London School of Economics; Lecturer Grey Univ. Coll. 1919; Lecturer and later Prof. of Econs., Transvaal Univ. Coll.; Dean Commerce Faculty, Univ. of South Africa 1921-25; Dir. of Census and Statistics 1925-33; Chair. Native Econ. Comm. 1930-32 and Customs Tariff Comm. 1934-35; mem. S.W. Africa Comm. 1935-36, Adviser Ottawa Conf. 1932, World Econ. Conf. 1933, Imperial Conf. 1937, Montreal Conf. 1958; Econ. Adviser to Treasury 1934-37; Perm. Head of Treasury 1937-50; Del. Monetary Conf. Bretton Woods 1944; Chair. Cttee. Gold Mining Taxation 1945; Alt. Gov. Int. Monetary Fund 1948-52; Leader, S. African Del., Int. Conf. on Trade and Employment, Geneva 1947, Havana 1948; fmr. Dir. (now consultant) of Barclays Bank D.C.O. (South African Bd.); Dir. African Batignolles Construction (Pty.) Ltd., Swiss-Union Trust for S.A. (Pty.) Ltd., Anglo-Alpha Cement Ltd.; Chair. S.W. Africa Financial Comm. 1951; Univs. Financial Comm. 1951-53 and Comm. on univ. facilities for non-Europeans 1953-54; mem. Comm. regarding Europeans in Transkei; Amb. to U.S.A. 1954-56; High Commr. in U.K. 1956-58; Leader, South African Trade Mission to Europe 1961; Hon. LL.D. and D.Comm.; Hutchison Research Medallist. *Publications:* The Debacle of Money, Gold or Authoritarian Money? Apartheid—A Challenge (also in French and Dutch), Value and Worth, The Worth of Gold, Money without Sweat and Tears, Inflation and Unearned Money. *Leisure interests:* fly fishing, bowls, shooting. *Address:* 63 Fourth Street, Linden 2195, Johannesburg, South Africa. *Telephone:* 464917 (Home).

HOLLOWAY, Admiral James Lemuel, III; American naval officer (retd.); b. 23 Feb. 1922, Charleston, S. Carolina; s. of Admiral James L. Holloway and late Jean Hagood; m. Dabney Rawlings; one s. (died 1964) two d.; ed. U.S. Naval Acad., Md; Commissioned Ensign in U.S. Navy 1942, served on destroyers in Atlantic and Pacific Theatres, World War II; Gunnery Officer USS Bennion, took part in Battle of Surigao Straits; Exec. Officer of Fighter Squadron Fifty-two, USS Boxer (CV-21), Korea 1952-54; Commdr. Attack Squadron Eighty-three, USS Essex, Sixth Fleet 1958; Admin. Aide to Deputy Chief of Naval Operations for Air 1959; Nat. War Coll. 1961; Asst. to Dir. of Navy Program Planning 1964; Commdg. Officer USS Enterprise (CVAN-65) 1965-67; promoted to rank of Rear-Admiral 1967; Dir. Strike Warfare Div., Program Coordinator Nuclear Attack Carrier Program, Office of Chief of Naval Operations; Commdr. Carrier Div. Six, directed operations in E. Mediterranean during Jordanian crisis 1970; Deputy C.-in-C. Atlantic and U.S. Atlantic Fleet, Chief of Staff 1971; Vice-Admiral 1971; Commdr. Seventh Fleet 1972-73; Vice-Chief of Naval Operations 1973-74; Chief of Naval Operations 1974-78; awarded numerous medals for meritorious service including Defence Distinguished Service Medal (three times), Legion of Merit, Distinguished Flying Cross, Bronze Star Medal with Combat "V", and several foreign decorations. *Address:* 924 South 26th Street, Arlington, Va. 22202, U.S.A. *Telephone:* (703) 684-9182.

HOLLOWAY, John, LITT.D., F.R.S.L.; British professor of Modern English; b. 1 Aug. 1920; s. of George Holloway and Evelyn Astbury; m. 1st Audrey Gooding 1946, one s. one d.; m. 2nd Joan Black 1978; ed. New Coll., Oxford; war service, commissioned in artillery, seconded to Intelligence; temp. lecturer in Philosophy, New Coll. 1945; Fellow of All Souls Coll., Oxford 1946-60; Lecturer in English, Univ. of Aberdeen 1949-54, Cambridge Univ. 1954-66, Reader in Modern English 1966, Fellow of Queens' Coll., 1955-, Prof. of Modern English 1972-; Visiting Prof., Chicago 1965, Johns Hopkins Univ. 1972, Charlottesville, Va. 1979; various univ. admin positions. *Publications:* Language and Intelligence 1951, The Victorian Sage 1953, The Charted Mirror (essays) 1960, (ed.) Poems of the Mid-Century 1957, (ed.) Selections from Shelley 1960, Shakespeare's Tragedies 1961, The Colours of Clarity (essays) 1964, The Lion Hunt 1964, Widening Horizons in English Verse 1966, Blake, The Lyric Poetry 1968, The Establishment of English 1972, Later English Broadside Ballads Vol. I 1975, Vol. II 1979 (both vols. with Joan Black), The Proud Knowledge 1977, Narrative and Structure 1979, contributions to journals; verse: The Minute 1956, The Fugue 1960, The Landfallers 1962, Wood and Windfall 1965, New Poems 1970, Planet of Winds 1977. *Address:* Queens' College, Cambridge, England.

HOLLOWOOD, A. Bernard, M.SC. (ECON.), F.R.S.A.; British economist and journalist; b. 3 June 1910, Burslem, Staffs.; s. of late Albert Hollowood and Sarah Elizabeth Hollowood; m. Marjorie D. Lawrie 1938; one s. two d.; ed. Hanley High School, St. Paul's Coll., Cheltenham, London Univ.; Lecturer in Econs., Stoke and Loughborough Coll. 1932-43; on staff of The Economist 1944-45; Editor Pottery and Glass 1944-50; Research Officer, Council of Industrial Design 1946; Contributor of articles and drawings to Punch 1942-; Editor Punch 1957-68; broadcaster since 1939, and television appearances; Hon. M.A. (Keele Univ.). *Publications:* Direct Economics 1943, Money is No Expense 1946, An Innocent at Large 1947, Britain Inside-Out, Scowle and Other Papers, Poor Little Rich World 1948, Pottery and Glass, The Hawksmoor Scandals 1949, Cornish Engineers 1951, The Story of Morro Velho 1954, Tory Story 1964, Pont, The Story of Graham Laidler 1969, Cricket on the Brain 1970, Tales of Tommy Barr 1970, Funny Money 1975. *Leisure interests:* economics, cricket. *Address:* Blackmoor Paddock, Shamley Green, Surrey, England. *Telephone:* Bramley 2118.

HOLM, Tryggve O. A.; Swedish business executive; b. 5 Feb. 1905, Kristinehamn; s. of Hans Th. Holm and Augusta Mathiesen; m. Gunver Bruu 1929; two d.; ed. Royal Inst. of Technology, Stockholm, and Carnegie Inst. of Technology, Pittsburgh, U.S.A.; Engineer, AB Bofors, Sweden 1929-30, Hess Bright Mfg. Co., Philadelphia 1930-31; Engineer, Steel Works, AB Bofors 1932-36, Chief Engineer and Man. 1936-39; Pres. AB Svenska Järnvägsverkstäderna, Linköping 1940-50, Saab Aktiebolag Linköping 1950-67; Chair. Swedish Metal Trades Employers' Assn. 1955-67; Chair. Swedish Employers' Confederation 1967-76; Chair. Gusums Bruk AB 1964-77, Hexagon AB 1965-77; Chair. of Bd. Skandinaviska Träimport AB 1967-; Chair. of Bd. Vegete Insurance Co. 1968-75, Alfa-Laval AB 1969-, AB Bofors 1973-; mem. Bd. AB Svenska Järnvägsverkstäderna 1940-76, Saab-Scania AB 1947-, AB Bofors 1968, SILA 1950-, Holmens Bruk AB 1955-, Nat. Pension Insurance Fund 1959-, ABA 1957-, Skandinaviska Enskilda Banken 1969-75; mem. Ass. of Reps. Scandinavian Airlines System 1962- (mem. Bd. 1957-62); Danish Consul 1949-; several decorations. *Leisure interest:* hunting. *Address:* Nygaten 54, Linköping (Office); Vasavägen 13, Linköping, Sweden (Home). *Telephone:* 013-10-08-20 (Office); 013-12-58-16 (Home).

HOLMBLAD, Niels Erik, D.SC.(ENG.); Danish telecommunications executive; b. 24 July 1905, Århus; s. of Sophus Holmblad and Calla Tørsleff; m. Karen Clausen 1943; three s.; ed. Danmarks Tekniske Hojskole; joined Danish Post and Telegraphs 1929, Engineer-in-Chief 1937-54; Gen. Man. Great Northern Telegraph Co., Denmark 1954-71; work on Int. Telecommunications Union (I.T.U.) and Int. Electrotechnical Cttee. (I.E.C.); mem. Danish Electrotechnical Cttee., Pres. 1955-62, and mem. Danish Acad. of Technical Sciences, Pres. 1962-68; Vice-Pres. Copenhagen Telephone Co.; Commdr. of the Order of Dannebrog (Denmark), Commdr. Order of St. Olav (Norway), Commandr. of Swedish Royal Order of Vasa, Commdr. Order of the Rising Sun (Japan). *Publications:* many articles on telecommunications. *Leisure interests:* literature, music. *Address:* Tranevaenget 8, DK 2900 Hellerup, Denmark. *Telephone:* 01-627088 (Home).

HOLMBOE, Vagn; Danish composer; b. 20 Dec. 1909, Horsens, Jutland; s. of Jens Christian Gylding Holmboe and Marie Dreyer; m. Meta Josefa Elisaveta Graf 1933; one s. one d.; ed. Royal Danish Music Conservatory; Teacher at Royal Inst. for Blind 1940-49; music critic Politiken 1947-55; Prof. of Composition and Orchestration, Royal Danish Music Conservatory 1955-66; mem. Board of Danish Composers' Assn.; mem. Royal Swedish Acad. of Music; various prizes; Kt. of Dannebrog Medal. *Compositions:* 10 symphonies, 3 chamber symphonies, 4 symphonic metamorphoses, 16 concertos, 15 quartets, oratorios, chamber and orchestral music, choral works, etc. *Leisure interests:* philosophy, history, planting. *Address:* Holmboevej 6, Ramlöse, 3200 Helsinge, Denmark. *Telephone:* 03-112045.

HOLMES, Dyer Brainerd; American engineer and business executive; b. 24 May 1921, New York; s. of Marcellus B. and Theodora (née Pomeroy) Holmes; m. 1st Dorothy Ann Bonnet 1943 (divorced 1973), two d.; m. 2nd Roberta Donohue Plunk 1974; ed. Newark Acad., Carteret Acad., Cornell Univ., Bowdoin Coll., and Massachusetts Inst. of Technology; service in U.S. Naval Reserve; Bell Telephone Labs. and Western Electric Co. 1945-53; Radio Corpn. of America 1953-61, engaged in Project Man. of Talos

(ground-to-air-missile) and electronic count-down system for Atlas Intercontinental Ballistic Missile; Program Man. Ballistic Missile Early Warning System (B.M.E.W.S.), Greenland, Alaska and England, Gen. Man. Defense Systems Div., Moorestown, N.J. 1961; Dep. Assoc. Admin. Manned Space Flight, NASA 1961-63; Sr. Vice-Pres. and Dir. Raytheon Co. 1963-69, Exec. Vice-Pres. 1969-75, Pres. 1975-, mem. Bd. of Dirs.; Dir. Wyman-Gordon Co., Mass., First Nat. Boston Co., First Nat. Bank of Boston, Kaman Corpn., American Defense Preparedness Assn.; Fellow, Inst. of Electronic and Electrical Engineers; mem. American Inst. of Aeronautics and Astronautics, Corpn. of Northeastern Univ., Nat. Acad. of Eng., Bd. of Trustees, Nat. Security Industrial Assn.; Bd. of Govs. Aerospace Industries Assn., Hon. D.Sc. (Univ. of New Mexico) 1963; NASA Medal for Outstanding Leadership, Arnold Air Soc.'s Paul T. John's Award 1969. *Leisure interests:* sailing, skiing, flying. *Address:* Raytheon Company, Lexington, Mass. 02173 (Office); 104 Westcliff Road, Weston, Mass. 02193, U.S.A. (Home).

HOLMES, Admiral Ephraim Paul; American naval officer (retd.); b. 14 May 1908, Downsville, N.Y.; s. of Dr. Edward A. and Dolly M. Hathaway Holmes; m. Nancy Sellers 1933; one s. one d.; ed. Downsville High School and U.S. Naval Acad., Annapolis; commissioned 1930, Capt. 1948; commanded destroyer U.S.S. Stockham 1944; Commdg. Officer U.S.S. Northampton 1955-57; Special Asst. to Deputy Chief of Naval Operations (Plans and Policy), Dept. of Navy 1957-58; Commdr. Cruiser Div. Four 1958-60; Asst. Chief of Naval Operations (Gen. Planning) and Dir. Gen. Planning Group, Dept of Navy 1960-63; Vice-Admiral, Commdr. Amphibious Force, Pacific 1963-64; Commdr. First Fleet 1964; Dir. Navy Program Office, Chief of Naval Operations 1964-67; Supreme Allied Commdr., Atlantic (NATO) 1967-70; C.-in-C. U.S. Atlantic Fleet 1967-70; Exec. Dir., Va. Port Authority 1971-75; numerous medals and decorations. *Leisure interests:* tennis, squash, golf, fishing, boating. *Address:* 4329 Alfriends Trail, Virginia Beach, Va. 23455, U.S.A.

HOLMES SELLORS, Sir Thomas, Kt., D.M., M.CH., F.R.C.S., F.R.C.P.; British surgeon; b. 7 April 1902, London; s. of Dr. T. B. Sellors; m. 1st Brenda Lyell (died 1928); m. 2nd Dorothy E. Chesshire 1932 (died 1953), one s. one d.; m. 3rd Marie Hobson 1955; ed. Loretto School and Oriel Coll., Oxford; various appointments in London hospitals; Surgeon, Harefield Hosp.; Sr. Surgeon, London Chest Hosp. 1934-68; Thoracic Surgeon, Middlesex Hosp. 1947-69; Surgeon Nat. Heart Hosp. 1957-69; Chair. Joint Consultants Cttee.; mem. Council, Royal Coll. of Surgeons, Pres. 1969-72; Pres. Thoracic Soc. 1960; Pres. Soc. of Thoracic Surgeons of Great Britain and Ireland 1961-62, BMA 1972-73, Hunterian Trustee 1978, Int. Soc. of Surgery 1977; mem. Court of Patrons, Royal Coll. of Surgeons; mem. many British and foreign medical socs.; Hon. F.A.C.S., Hon. F.R.C.S. (Edinburgh, Ireland), Hon. F.C.M.(S. Africa), Hon. F.D.S. (Royal Coll. of Surgeons); Hon. Fellow Oriel Coll., Oxford; M.S.h.c. (Southampton), M.D. h.c. (Groningen), D.Sc. h.c. (Liverpool); Officer, Order of Carlos Finlay (Cuba); Médaille de la Reconnaissance française, Gold Medal, B.M.A. 1978. *Publications:* Surgery of the Thorax 1933; articles in English and foreign medical publications and editor and contributor to current textbooks. *Leisure interests:* water-colour painting, gardening. *Address:* Spring Coppice Farm, Speen, Aylesbury, Bucks., England. *Telephone:* Hampden Row 379.

HOLMQVIST, Eric Bertil; Swedish politician; b. 2 Feb. 1917, Svalöv; m. Alice Andersson 1947; two s. two d.; M.P. 1948-; Minister of Agriculture 1961-68; Minister of Home Affairs 1969-73, of Defence 1973-76; Social Democratic Labour Party. *Address:* Riksdagen, Fack, 100 12 Stockholm 46, Sweden. *Telephone:* 08/142020-1364.

HOLOUBEK, Gustaw; Polish actor and theatre director; b. 21 April 1923, Cracow; s. of Gustaw and Eugenia Holoubek; m. 1st Danuta Kwiatkowska, 2nd Maria Wachowiak, 3rd Magdalena Zawadzka; two d.; ed. State Higher Dramatic School, Cracow; actor in Cracow theatres 1947-49, Wyspiański Theatre, Katowice, Artistic Man. 1954-56, Polish Theatre, Warsaw 1958-59, Dramatic Theatre, Warsaw 1959-, Dir. and Artistic Man. 1972-; Assoc. Prof. State Higher Theatrical School; Vice-Chair. SPATIF (Assn. of Polish Theatre and Film Actors) 1963-70, Chair. 1970-; Deputy to Seym 1976-; now appears in various Warsaw theatres in leading roles which have included: Judge Caust in Leprosy at the Palace of Justice, Baron Goetze in Le diable et le bon Dieu (Sartre), Gustaw-Konrad in Dziady (A. Mickiewicz), Violinist in Rzeźnia (S. Mrożek), Beggar in Electra (J. Giraudoux), Hick in The Iceman Cometh (O'Neill), King Lear, Oedipus, Hamlet, Richard II and Hadrian VII (Peter Luke), Gen. Wincenty Krasiński in November Night (Wyspiański); also appears in films and television plays; Dir. Mazepa (film) 1976; numerous decorations including State Prize 1953, 1966, 1978 (1st Class), Order of Banner of Labour 2nd Class, Chevalier's Cross of Polonia Restituta, Award Meritorius Activist of Culture 1972, Warsaw City Prize 1975. *Leisure interests:* sports. *Address:* Ul. Dragonów 4 m. 49 Warsaw, Poland.

HOLSHOUSER, James E., Jr.; American politician; b. 8 Oct. 1934, Watauga Co.; s. of J. E. and Virginia Holhouser; m. Pat Hollingsworth; one d.; ed. Univ. of North Carolina School of Law; mem. State House of Reps. 1962, re-elected 1964, 1968, 1970; served as Republican Joint Caucus Sec. 1963, House Minority Leader 1965, Republican Joint Caucus Leader 1969, 1971, Vice-Chair. House Judiciary Cttee. 1965, Vice-Chair. House Rules Cttee. 1969, 1971, served on various legislative study comms.; Republican State Chair. 1966, re-elected 1968, 1970; Gov. of North Carolina 1973-77; mem. Cttee. on Court Study, N.C. Bar Assn., Bd. of Dirs., Davidson Coll. and Univ. of N.C. Law Alumni Assns.; mem. Mountain Scenic Econ. Devt. Comm. and other regional orgs. *Leisure interests:* golf, tennis. *Address:* P.O. Box 116, Southern Pines, N.C. 28387, U.S.A.

HOLTE, Johan B.; Norwegian industrialist; b. 19 Feb. 1915, Notodden; s. of Peder O. Holte and Lorentze Indorff; m. Eva Bull; ed. Technical Univ. of Norway, Trondheim; joined Norsk Hydro 1948, Dir. Research Div. 1957-66, Vice-Pres. 1964-66, Pres. 1967-77, Chair. 1977-; mem. Board of Dirs. Norske Fina A/S Dyno Industrier A/S, Qatar Fertiliser Co., Qatar, Moelven Brug A/S, Moelv, Kvaerner Industrier A/S, Oslo; Chair. Bd. of Dirs. Soer-Norge Aluminium A/S, Husnes; mem. many other industrial and social orgs. *Leisure interests:* fishing, mountain walking. *Address:* Norsk Hydro, Bygdøy allé 2, Oslo 2 (Office); Helmerveien 1, 1310 Blommenholm, Norway (Home). *Telephone:* 56-41-80 (Office); 54-08-29 (Home).

HOLTEN EGGERT, Christian D., LL.M.; Danish diplomatist; b. 18 April 1912, Copenhagen; s. of C. C. D. Holten-Eggert; m. Stephanie Antoine-Feill 1942 (died 1966); no c.; ed. Metropolitanskolen and Univ. of Copenhagen. Danish Foreign Service 1937-, Chief of Section, Foreign Office 1946; Deputy Perm. Rep. to UN, New York 1949; Chief of Dept., Foreign Office 1953; Minister to Egypt and Syria 1956-58, Ethiopia and Lebanon 1956-61, Iraq 1956-60, Jordan and Sudan 1958-61; Amb. to U.A.R. (Egypt) 1958-61, concurrently to Iraq 1960-61; Amb. to U.S.S.R. 1961-66, to Spain 1966-71, to Poland 1971-74, to Austria, concurrently to Hungary, 1974-77; Chair. Danish Govt. dels. for negotiating trade and payment agreements abroad 1946-49, 1953-56; Adviser on Int. Affairs 1977-. *Address:* c/o Ministry of Foreign Affairs, Copenhagen, Denmark.

HOLTER, Heinz, DR. PHIL.; Danish biologist and professor; b. 5 June 1904, Leonding, Austria; s. of late M. D. A. Holter and late A. Holter (née Fischer); m. Karen Teisen 1942; one s. one d.; ed. Univ. of Vienna; Asst., Chemical Inst., Univ. of Vienna 1928-30, Dept. of Chem. Carlsberg Lab., Copenhagen 1932-42, Chief of Dept. of Cytochemistry 1942-56, Chief of Dept. of Physiology 1956-71; mem. of Danish Acad. of Sciences 1942, Royal Soc. of Sciences, Uppsala 1960, Royal Physiographical Soc. of Lund 1962, American Acad. of Arts and Sciences 1971. *Publications:* Various scientific papers in the fields of organic chemistry, enzyme chemistry, cytochemistry and cell physiology. *Address:* 37 Farendløse Enghave, DK-4100 Ringsted, Denmark. *Telephone:* (03) 640185.

HOLTFRETER, Johannes F. C., PH.D.; American emeritus professor of zoology; b. 9 Jan. 1901, Richtenberg, Germany; s. of Johannes and Sabine Holtfreter; m. Hiroko Ban 1959; ed. Univs. of Rostock, Leipzig, Freiburg and Greifswald; Asst., Dept. of Embryology Kaiser-Wilhelm Inst. of Biology, Berlin-Dahlem 28-33; Lecturer and Assoc. Prof., Zoological Inst., Univ. of Munich 1933-38; Research Worker, Zoology Dept., Univ. of Rochester, N.Y. 1946-48, Prof. of Zoology 1948-66, Tracy S. Harris Prof. of Zoology 1966-69, Prof. Emer. 1969-; mem. Editorial Bd. Journal of Embryology and Experimental Morphology, London, Bd. of Advisers Experimental Cell Research, Stockholm, Int. Bd. of Control Hubrecht Lab., Utrecht, Fulbright Fellowships Panel, Guggenheim Fellowships Evaluation Panel; Rockefeller Fellow 1936-37, Rockefeller and Guggenheim Fellow, McGill Univ., Montreal 1942-46, Fulbright Fellow, Paris 1958; Jesup Lecturer, Columbia Univ. 1957; numerous lectureships abroad; research in vertebrate devt. and cytology; Fellow, American Acad. of Arts and Sciences, A.A.A.S., John Simon Guggenheim Memorial Foundation; mem. Nat. Acad. of Sciences, American Assn. of Anatomists and many foreign socs. and acads. including Akad. der Naturforscher Leopoldina and Swedish Acad. of Sciences; Hon. Fellow, Zoological Soc. of India; Dr. h.c. rer. nat. (Freiburg) 1975. *Leisure interests:* painting, gardening, travelling in exotic countries. *Address:* 29 Knolltop Drive, Rochester, N.Y. 14610, U.S.A. *Telephone:* 381-6622.

HOLTHUSEN, Hans Egon, D.PHIL.; German writer; b. 15 April 1913, Rendsburg, Schleswig-Holstein; m. 1st Lori Holthusen 1950,

2nd Inge Holthusen 1952; one s. one step d.; ed. Tübingen, Berlin and Munich Univs.; served in the army 1939-45; writer 1945-; Dir. Goethe House, New York 1961-64; Del. Biennale Int. de Poésie, Knokke (Belgium) 1951-52; Perm. Prof. German Literature, Northwestern Univ. Evanston, Ill. Sept. 1968-; Pres. Bavarian Acad. of Fine Arts 1968-74; Kiel Kulturpreis 1956, Bavarian Order of Merit 1973. *Publications:* Rilkes Sonette ■ Orpheus—Versuch einer Interpretation 1937, Hier in der Zeit (poems), Der späte Rilke 1949, Der unbehauste Mensch (essays) 1951 and 1955, Labyrintische Jahre (peoms) 1952, Ja and Nein (essays) 1954, Das Schiff (novel) 1956, Das Schöne und das Wahre (essays) 1958, R. M. Rilke in Selbstzeugnissen und Bilddokumenten (biography) 1958, Kritisches Verstehen (essays) 1961, Avantgardismus (essay) 1964, Plädoyer für den Einzelnen (essays) 1967, Indiana Campus: ein amerikanisches Tagebuch 1969, Eduard Mörike in Selbstzeugnissen und Bilddokumenten (biography) 1971, Kreiselkompass (essays) 1976, Amerikaner und Deutscher, Dialog zweier Kulturen (essay) 1977. *Leisure interests:* hiking, swimming, dancing, music. *Address:* Agnesstr. 48, Munich 40, Federal Republic of Germany; 1725 Orrington Avenue, Evanston, Ill. 60201, U.S.A. *Telephone:* 372161 (Germany); 864-3658 (U.S.A.).

HOLTON, A. Linwood, Jr., LL.B.; American lawyer; b. 21 Sept. 1923, Big Stone Gap, Va.; m. Virginia Harrison Rogers; two s. two d.; ed. public schools in Big Stone Gap, Washington and Lee Univ., and Harvard Law School; Partner, Egglestone, Holton, Butler and Glenn (law firm); served submarine force during Second World War; fmr. Chair. Roanoke City Republican Cttee.; Vice-Chair. Virginia Republican State Cen. Cttee. 1960-69; del. to Republican Nat. Convention 1960, 1968, 1972; mem. Nat. Nixon for Pres. Cttee. March 1967; Regional Co-ordinator for Nixon for Pres. Cttee.; Gov. of Virginia 1970-74; Asst. Sec. of State for Congressional Relations, Dept. of State 1974-75; partner in law firm of Hogan and Hartson 1975-; Republican. *Address:* Hogan and Hartson, 815 Connecticut Avenue, N.W., Washington, D.C. 20006 (Office); 6010 Claiborne Drive, McLean, Va. 22101, U.S.A. (Home).

HOLTROP, Marius Wilhelm, DR.ECON.; Netherlands banker; b. 2 Nov. 1902, Amsterdam; s. of late Jan Holtrop and late Betty Holtrop-van gelder; m. 1st Josina Juchter 1926 (died 1965), 2nd Catharina Peltenburg 1966; two s. one d.; ed. Public Commercial Training School, Amsterdam, and Univ. of Amsterdam; with Royal Dutch Blast Furnaces and Steel Works 1929-36, Man. Dir. 1939-46; Vice-Pres. Shell Chemical Co. at San Francisco 1936-39; Pres. De Nederlandsche Bank, Amsterdam 1946-67; Pres. and Chair. of Bd. Bank for Int. Settlements, Basel until June 1967; Gov. IMF, Washington until 1967; Dir. Royal Dutch Petroleum Corpn. 1967-73; Dr. h.c. (Netherlands School of Econs., Rotterdam, and Univ. of Basel); Knight Order of the Netherlands Lion, Grand Cross Order of the Crown (Belgium), Grand Cross Order of Orange-Nassau. *Address:* Zonnerzorgerlaan 2, Bloemendaal, Netherlands (Home). *Telephone:* Haarlem 023-251503.

HOLUB, Miroslav, MU.DR., C.SC.; Czechoslovak writer and poet; b. 13 Sept. 1923, Pilsen; s. of Josef Holub and Františka Dvořáková; m. 1st Věra Koktová 1948, 2nd Marta Svikruhová, 3rd Jitka Langrová 1969; one s. one d.; ed. Charles Univ., Prague; scientific worker, Microbiological Inst., Czechoslovak Acad. of Sciences 1953-71, Public Health Research Inst., New York 1965-67, Max-Planck Inst. of Immunobiology, Freiburg 1968-69, Inst. for Clinical and Experimental Medicine 1972-; mem. Cen. Cttee. Union of Czechoslovak Writers 1963-69; mem. Cen. Cttee. Union of Czech Scientific Workers 1969-71; Ed., Vesmir 1952-65. *Publications:* Poetry: Denní služba (Day Shift) 1958, Achiles ■ želva (Achilles and the Tortoise) 1960, 1963, Slabikář (The Primer) 1961, 1965, Jdi a otevři dveře (Go and Open the Door) 1961, Zcela nesoustavná zoologie (Entirely Unsystematic Zoology) 1963, Kam teče krev (Where Blood Flows) 1963, Tak zvané srdce (So-called Heart) 1963, Anamnesa (Selected Poems 1958-63) 1964, Selected Poems (English) 1967, Obwohl (German) 1969, Ačkoli (Although) 1969, Beton (Concrete) 1970, Model člověka (Model of ■ Man, Polish) 1969, Although (English) 1971, Aktschlüsse/Halbgedichte (German) 1974, Een Machine Van Woorden (Dutch) 1975, Vantunun Mool (The Heart of the Matter—Gujarati) 1976, Notes of ■ Clay Pigeon (English) 1977; Prose: Anděl na kolečkách (Angel on Wheels—report of trip through U.S.A.) 1963, Tři kroky po zemi (Three Steps on the Ground) 1965, Die explodierende Metropole (German) 1967; Zít v New Yorku (To live in New York) 1969, Poe or the Valley of Unrest 1971; Scientific works: Experimental Morphology of Antibody Formation 1958, Mechanisms of Antibody Formation 1960 (editor), The Lymphocyte and The Immune Response 1967, Cellular Basis of Antibody Formation (German) 1978, Structure of the Immune System (Czech) 1979. *Leisure interests:* tennis, table-tennis, fencing. *Address:* Institute for Clinical and Experimental Medicine, CS 146 22 Prague 4; Hrnčíře 107, CS 14900 Prague 4, Chodov, Czechoslovakia (Home). *Telephone:* 412-3602 (Office).

HOŁUJ, Tadeusz; Polish writer; b. 23 Nov. 1916, Cracow; m. Leokadia Hołuj; one s.; ed. Jagiellonian Univ., Cracow; studied law and philosophy at Jagiellonian Univ., Cracow; Co-Ed. Kuźnia Młodych 1936-39; soldier 1939, underground 1939-42; prisoner in Auschwitz, organizer of Resistance Movement 1942-45; journalist 1946; Pres. and Sec. Int. Auschwitz Cttee. 1957-67; mem. Polish United Workers' Party; Deputy to Seym 1972-; mem. Polish Writers' Union, Vice-Chair. Cracow Branch; mem. PEN Club, Cracow Literary Prize 1946, 1958; Ministry of Culture and Art Prize 1962, State Prize 1966, Literary Prize of Cen. Council of Trade Unions 1972, 1973, Order of Banner of Labour 1st Class 1970. *Publications:* Novels and Stories: Próba ognia (The Test of Fire) 1945, Królestwo bez ziemi (Kingdom without a Land) 1954-56, Koniec naszego świata (The End of Our World) 1958, Drzewo rodzi owoce (A Tree Bears Fruit) 1963, Róża i płonący las (The Rose and the Forest Aflame); Raj (Paradise) 1973, Osoba (Person) 1973; poetry: Dziewczyno płyniemy naprzód 1936, Wiersze obozowe 1946, Wiersze 1960, Zródło 1969, Rysopis 1976; numerous short stories and plays. *Address:* Cracow, Ul. Emaus 14/1, Poland. *Telephone:* 20-981.

HOLYOAKE, Rt. Hon. Sir Keith Jacka, G.C.M.G., C.H., P.C., M.P.; New Zealand politician and farmer; b. 11 Feb. 1904, Pahiatua; s. of Henry Victor Holyoake and Esther Holyoake; m. Norma Janet Ingram 1935; two s. three d.; ed. Tauranga, Hastings, Motueka; Nelson Provincial Pres. Farmers' Union 1930-41; Pres. N.Z. Hop Marketing Cttee. 1938-41; Dominion Vice-Pres. Farmers' Union 1940-50; mem. Dominion Exec. Farmers' Union 1940-50; mem. N.Z. Tobacco Growers' Fed. and N.Z. Fruit Exporters' Assen.; M.P. 1932-77; Deputy Leader of Opposition 1947; Deputy Prime Minister and Minister of Agric. 1949-57; Prime Minister and Minister for Maori Affairs Sept.-Dec. 1957; Leader of Opposition 1957-60; Prime Minister 1960-72, Minister of Foreign Affairs 1960-72, of State 1975-77; Gov.-Gen. of New Zealand Oct. 1977-; N.Z. Rep. at Farmers' World Conf., London 1946; Chair. Gen. Council FAO 1955; has participated in many SEATO and ANZUS meetings and others; Hon. Freeman City of London; Hon. LL.D. (Victoria Univ.), Hon. LL.D.(Agric.) (Seoul Univ., Korea); National Party. *Leisure interests:* gardening and farming. *Address:* Government House, Private Bag, Wellington, New Zealand.

HOMANN, Heinrich, DR.PHIL.; German university professor and politician; b. 6 March 1911, Bremerhaven; ed. Gymnasium and law studies; Professional Army Officer 1934-45, captured at Stalingrad 1943; Co-Founder, Free Germany Nat. Cttee. 1943; mem. Nat. Democratic Party (NDPD) 1948-, Political Man. 1949-52, Deputy Chair. 1952-67, Acting Chair. 1967-72, Chair. 1972-; mem. Volkskammer 1949-, Vice-Chair. 1954-63; Deputy Chair. State Council of German Democratic Repub. 1960-; mem. Presidium of the Nat. Council of the Nat. Front of G.D.R. 1957-; mem. Presidium of G.D.R. Peace Council 1955-; Vaterländischer Verdienstorden in Gold (twice) and other decorations. *Address:* National-Demokratische Partei Deutschlands, Friedrichstrasse 65, 108 Berlin, German Democratic Republic.

HOMANS, George Caspar, M.A.; American sociologist; b. 11 Aug. 1910, Boston, Mass.; s. of Robert and Abigail (Adams) Homans; m. Nancy Parshall Cooper 1941; one s. two d.; ed. St. Paul's School, Concord, N.H. and Harvard Coll.; Jr. Fellow, Harvard Univ. 1934-39, Faculty Instructor 1939-41, Assoc. Prof. 1946-53, Prof. of Sociology 1953-79, Chair. Dept. of Sociology 1970-75; U.S. Navy 1941-46; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences. *Publications:* Massachusetts on the Sea 1930, An Introduction to Pareto 1934, Fatigue of Workers 1941, English Villagers of the Thirteenth Century 1941, The Human Group 1950, Marriage, Authority and Final Causes 1955, Social Behaviour 1961 (revised edn. 1974), Sentiments and Activities 1962, The Nature of Social Science 1967. *Leisure interests:* sailing, forestry. *Address:* 480 William James Hall, Harvard University, Cambridge, Mass. 02138; 11 Francis Avenue, Cambridge, Mass., U.S.A. (Home). *Telephone:* 617-547-4737 (Home).

HOME OF THE HIRSEL, Baron (Life Peer), cr. 1974, of Coldstream in the County of Berwick; **Alexander Frederick Douglas-Home,** K.T., P.C.; British politician; b. 2 July 1903, London; s. of 13th Earl of Home and Lady Lilian Lambton; m. Elizabeth Alington 1936; one s. three d.; ed. Eton Coll., and Christ Church, Oxford; mem. House of Commons 1931-45, 1950-51, 1963-74, House of Lords 1951-63; Parl. Private Sec. to Sec. of State for Scotland 1931-35, to Chancellor of Exchequer 1935-38, to Prime Minister 1938-39; Joint Parl. Under-Sec. to Foreign Office 1945; Minister of State, Scottish Office 1951-55; Sec. of State for Commonwealth

Relations 1955-60, for Foreign Affairs 1960-63; Lord Pres. of the Council 1957, 1959-60; Prime Minister 1963-64; Leader of Conservative Party 1963-65; Leader of Opposition 1964-65; Sec. of State for Foreign and Commonwealth Affairs 1970-74; renounced title of 14th Earl of Home Oct. 1963; Chancellor Heriot-Watt Univ., Edinburgh 1966-76; Pres. Royal Inst. of Int. Affairs 1977-; Chair. Bilderberg meetings 1977, 1978; Hon. D.C.L. (Oxford), Hon. LL.D. (Harvard, Edinburgh, Aberdeen and Liverpool); Conservative. *Publication:* The Way the Wind Blows (autobiography) 1976. *Leisure interests:* shooting, fishing, gardening. *Address:* The Hirsel, Coldstream, Berwickshire, Scotland; Castlemains, Douglas, Lanarkshire, Scotland. *Telephone:* Coldstream 2345; Douglas 241.

HOMMEL, Nicolas; Luxembourg diplomatist; b. 8 Oct. 1915, Wolwelange; m. Denise Ruffié 1959; called to the Bar 1939; Foreign Service 1946-; mem. Luxembourg Mil. Mission, Berlin 1946-48; Perm. Rep. to OEEC 1949-58, to NATO 1953-58, Amb. to Belgium 1958-62, to France 1962-67; Sec.-Gen. Ministry of Foreign Affairs 1967-68; Amb. to Fed. Rep. of Germany 1968-73; Sec.-Gen. Council of Ministers, EEC 1973-; several Luxembourg and foreign decorations. *Leisure interests:* painting, tennis. *Address:* Council of Ministers of the European Communities, 170 rue de la Loi, Brussels, Belgium.

HON SUI SEN; Singapore politician; b. 16 April 1916, Penang, Malaysia; m. Annie Voon See Chin 1942; four d.; ed. St. Xavier's Inst., Penang and Raffles Coll., Singapore; joined the Straits Settlements Civil Service 1939; transferred to Singapore Admin. Service; Perm. Sec. Prime Minister's Office, concurrently Perm. Sec. Econ. Devt. Div., Ministry of Finance 1957-65; first Chair. Econ. Devt. Bd. 1961-68; first Chair. and Pres. Devt. Bank of Singapore Ltd. 1968-70; M.P. for Havelock April 1970-; Minister of Finance Aug. 1970-; Hon LL.D.; Meritorious Medal 1962, Malaysian Medal 1964, Distinguished Service Order 1967. *Address:* Ministry of Finance, 39th Floor, CPF Building, Singapore 1; 35 Malcolm Road, Singapore 11. *Telephone:* 2229666 (Office).

HONDA, Soichiro; Japanese business executive; b. 17 Nov. 1906, Iwata Gun; s. of Gihei and Mika Honda; m. Sachi Isobe 1935; two s. (one deceased) two d.; garage apprentice 1922, opened own garage 1928; owner and Head, Piston Ring Production Factory 1939; started producing motor cycles 1948, Pres. Honda Motor Co. until 1973, Dir. and Adviser 1973-; founded Honda Foundation 1977. *Address:* Honda Motor Co., No. 27-8, 6-chome, Jingumae, Shibuya-ku, Tokyo 150; 4-10-13, Nishiochiai Shinjuku-ku, Tokyo 161, Japan.

HONE, Major-Gen. Sir (Herbert) Ralph, K.C.M.G., K.B.E., M.C., T.D., G.C.ST.J., Q.C., LL.B.; British lawyer and colonial administrator; b. 3 May 1896, Hove, Sussex; s. of Herbert Hone and Miriam Grace Hone (née Dracott); m. 1st Elizabeth Daisey Matthews 1918, one s. one d.; m. 2nd Sybil Mary Simond 1945, one s.; ed. Varndean Grammar School, Brighton and London Univ.; joined London Irish Rifles 1915, Lieut. 1916, Capt. 1918, served with B.E.F. France 1916, 1917-18; Staff Capt. Ministry of Munitions 1918-20; called to Bar, Middle Temple, practised S.E. Circuit 1923-24; Registrar Zanzibar High Court 1925, Resident Magistrate 1928, Crown Counsel Tanganyika 1930; Attorney-Gen. Gibraltar 1933-36; Attorney-Gen. Uganda 1937-40; Commdt. Uganda Defence Force 1940; Chief Legal Adviser Political Branch G.H.Q. Middle East 1941, Chief Political Officer 1942-43; attached Gen. Staff War Office 1943-44; Maj.-Gen. serving in E. Africa, Middle East, War Office, India, Ceylon and Malaya 1943-45; Chief Civil Affairs Officer, SEAC 1945-46; Sec.-Gen. to Gov.-Gen. of Malaya 1946-48; Deputy Commr.-Gen. S.E. Asia 1948-49; Gov. and C.-in-C. North Borneo 1949-54; Head Legal Division, Commonwealth Relations Office 1954-61; resumed private practice 1961-; Draftsman, S. Rhodesia Constitution 1961, Bahamas Constitution 1963; Constitutional Adviser, Kenya 1962, South Arabia 1965, Bermuda 1966. *Leisure interests:* tennis, badminton, philately. *Address:* 1 Paper Buildings, Temple, London, E.C.4. (Office); 56 Kenilworth Court, London, S.W.15, England (Home). *Telephone:* 01-788 3367 (Home).

HONECKER, Erich; German politician; b. 25 Aug. 1912, Wiebelskirchen, Saarland; s. of Wilhelm Honecker; m. 1st Edith Baumann 1947 (divorced), 2nd Margot Feist (*q.v.* Margot Honecker) 1953; one s.; mem. German CP 1929-46; imprisoned for anti-fascist activity 1935-45; Youth Sec., Cen. Cttee. of German CP 1945; mem. Cen. Cttee., German CP 1946; mem. Man. Cttee., Sozialistische Einheitspartei Deutschlands (SED) 1946-; Chair. Cen. Cttee., Freie Deutsche Jugend (FDJ) 1946-55; mem. Volkskammer, G.D.R. 1949-; mem. Cen. Cttee. of Sozialistische Einheitspartei Deutschlands (SED) 1946-, Cand. mem. Politburo 1950-58, mem. 1958-, Sec. Cen. Cttee. 1958-78, First Sec. 1971-76, Gen. Sec. 1976-78; Sec. Nat. Defence Council 1960-71, Chair. 1971-; mem. Council of State 1971-, Chair. (Head of State) Oct. 1976-; Vaterländischer Verdienstorden in Gold (twice), Karl-Marx-Orden, Order of Lenin (U.S.S.R.), and other decorations. *Address:* Sozialistische Einheitspartei Deutschlands, Am Marx-Engels-Platz 2, Berlin 102, German Democratic Republic.

HONECKER, Margot; German politician; b. (as Margot Feist) 17 April 1927, Halle; m. Erich Honecker (*q.v.*) 1953; Co-Founder Anti-Fascist Youth Cttee., Halle 1945; mem. CP 1945; Sec., Freie Deutsche Jugend (FDJ) Cttee., Sachsen-Anhalt; Chair. Young Pioneers and Sec., Cen. Council, FDJ 1949-53; mem. Volkskammer 1949-54, 1967-; mem. Cen. Cttee. Sozialistische Einheitspartei Deutschlands (SED) 1963-; univ. training in U.S.S.R. 1953-54; Head Teacher Training Dept., Ministry of Educ. 1955-58, Deputy Minister of Educ. 1958-63, Minister of Educ. 1963-; mem. Acad. of Pedagogical Sciences; Dr. h.c.; Karl-Marx-Orden, Vaterländischer Verdienstorden in Gold, Held der Arbeit, and other decorations. *Address:* Ministerium für Volksbildung, Berlin, German Democratic Republic.

HONGLADAROM, Sunthorn, M.A.; Thai politician and diplomatist; b. 23 Aug. 1912, Nakorn Sawan; m. Khunying Lamchiag Hongladarom 1937; five s. one d.; ed. Thepsirin School, Bangkok, Weymouth Coll., England and Cambridge Univ.; Chief of Foreign Div. Dept. of Information 1943-46; Asst. Sec.-Gen. of Council of Ministers 1948-50; Sec.-Gen. of Nat. Econ. Council 1950-57; Amb. to Fed. of Malaya 1957-59; Minister of Econ. Affairs 1959; Minister of Finance 1959-65; Deputy Minister of Nat. Devt. 1963; Minister of Econ. Affairs 1965-68; Amb. to the U.K. 1968-69; Amb. to the U.S.A. 1969-72; Sec.-Gen. SEATO 1972-77; Rector of Chiengmai Univ. 1966; Fellow of Econ. Devt. Inst., Int. Bank of Reconstruction and Devt.; LL.D. h.c.; Knight Grand Commdr. Order of White Elephant, Order of Chula Chom Klao. *Leisure interests:* travel, golf, bowling. *Address:* c/o Ministry of Foreign Affairs, Saranrom Palace, Bangkok, Thailand.

HONT, Ferenc, CAND. LITT., D.PHIL.; Hungarian theatrical producer; b. 1907, Szeged; m. Ilona Görög 1948; one s.; ed. Szeged; producer at Odeon Theatre Paris 1925-28, at various Hungarian theatres 1928-44; edited dramatic papers 1934-38; Sec. of Histrionic Soc. 1936-; escaped to Russia 1944, returned 1945; Dir. Acad. of Dramatic Art 1945-49, Madách Theatre 1946; Artistic Dir. of Hungarian Nat. Film Co. 1948; Dir. Youth Theatre 1950, Museum of Theatrical History 1952; Pres. Council of Theatrical History of the Hungarian Acad. of Sciences 1967; Pres. Inst. of Theatrical and Film Science 1957, Hungarian Centre Int. Theatrical Inst. 1957; Dir. Inst. for Theatrical Sciences 1959-69; Prof. and Pres. Universitas theatrical group; instigator of open-air Summer Festival Plays of Szeged; Kossuth Prize 1949; Labour Order of Merit, golden degree (three times), "For Socialist Hungary" Order of Merit 1977. *Publications:* A Szinjáték, Szinház és Munkásosztály, A Szinészi képzelet fejlesztése, Az eltünt magyar szinjáték, Költészet a dobogón, A rendezö munkája, A szinjátszó munkája, Valóság a szinpadon, From a Director's Notebook, A cselekvés müvészete. *Address:* Krisztina körut 71, 1016 Budapest 1, Hungary. *Telephone:* 368-194.

HOOGLANDT, Jan Daniel, D.SC.; Netherlands steel manufacturing executive; b. 15 Feb. 1926, Tangier, Morocco; m.; four c.; ed. Hilversum Gymnasium, Municipal Univ. of Amsterdam; joined Koninklijke Nederlandsche Hoogovens en Staalfabrieken NV 1954, Asst. in Econ. Dept. 1954, Sec. to Tech. Dir. and to Co-ordinator of Man. Bd. 1956-63, Asst. Head of subsidiaries and assoc. cos. 1963, Asst. Dir. 1965, Dir. for corporate co-operation 1967, Dir. of Admin. 1968, mem. Man. Bd. 1970, mem. Man. Bd. of ESTEL NV Hoesch-Hoogovens after merger 1972-, Chair. 1977-; mem. Supervisory Bds. of various cos.; Order of the Netherlands Lion 1976. *Address:* ESTEL NV Hoesch-Hoogovens, 6500 AK, Postbus 401, Nijmegen, Netherlands. *Telephone:* (080) 269111.

HOOK, Sidney, PH.D.; American philosopher and author; b. 20 Dec. 1902, New York; s. of Isaac Hook and Jennie Halpern; m. 1st C. Katz 1924, 2nd Ann Ethel Zinken 1935; two s. one d.; ed. Coll. of City of New York and Columbia Univ.; Instructor of Philosophy, New York Univ. 1927-32, Asst. Prof. of Philosophy 1932-34, Assoc. Prof. and Chair. of Dept. 1934-39, Prof. 1939-70, Head All-Univ. Dept. of Philosophy 1950-69, Emer. Prof. 1970-; Regents Prof. Univ. of Calif.; Dir. New York Univ. Inst. of Philosophy and Ed. of its Proceedings; Sr. Research Fellow Hoover Inst. on War, Revolution and Peace; Fellow, American Acad. of Arts and Sciences, American Acad. of Educ.; Council mem. National Endowment for the Humanities; Pres. and Treas. John Dewey Foundation; D.Hum.Litt. (Maine) 1960, (Utah) 1970; LL.D. (Calif.) 1966, (Rockford Coll.) 1970, (Florida) 1971, (Hebrew Union Coll.) 1976, D.H.L. (Vermont) 1979. *Publications:* The Metaphysics of Pragmatism 1927, Towards the Understanding of Karl Marx 1933, From Hegel

to Marx 1936, John Davey: An Intellectual Portrait 1939, Reason, Social Myth and Democracy 1940, The Hero in History: A Study in Limitation and Possibility 1945, Education for Modern Man 1947, Heresy Yes, Conspiracy No 1953, Common Sense and the Fifth Amendment 1958, Political Power and Personal Freedom 1959, The Ambiguous Legacy: Marx and the Marxists 1960, The Quest of Being 1961, The Paradoxes of Freedom 1962, The Fail-Safe Fallacy 1963, Religion in a Free Society 1967, Academic Freedom and Academic Anarchy 1970, Education and the Taming of Power 1973, Pragmatism and the Tragic Sense of Life 1974, Revolution, Reform and Social Justice 1976; Ed. and contributor: The Idea of a Modern University 1975, The Philosophy of the Curriculum 1976, The Ethics of Teaching and Scientific Research 1977, The University and the State. *Leisure interests:* gardening, reading. *Address:* c/o Hoover Institution, Stanford, Calif. 94305; and South Wardsboro, Vt. 05355, U.S.A. *Telephone:* (415) 497-1501; and (802) 896-2544.

HOOPMAN, Harold DeWaine, B.S.; American oil executive; b. 22 July 1920, Lucas, Kan.; s. of Ira William Hoopman and Mary Dorman; m. Eleanor Gessner 1946; two s. one d.; ed. Wyoming and Harvard Univs.; Experimental Test Engineer, Wright Aeronautical Co. 1942-43; joined Marathon Oil Co. 1946, Resident Man., Guatemala 1957-62, Vice-Pres. Int. 1962-67, Asst. to Pres. 1967-68, Vice-Pres. Production, U.S. and Canada 1968-69, Vice-Pres. Marketing, U.S. 1969-72, Dir. and Pres. 1972-, Chief Exec. Officer 1975-; Dir. American Petroleum Inst., Owens-Illinois, Inc., Highway Users' Fed., First Nat. Bank of Findlay. *Leisure interests:* antique autos., hunting, fishing. *Address:* Marathon Oil Company, 539 South Main Street, Findlay, O. 45840; 2501 South Main Street, Findlay, O. 45840, U.S.A. (Home). *Telephone:* (419) 422-2121 (Office).

HOOVER, Herbert William Jr., A.B.; American business executive; b. 23 April 1918, North Canton, Ohio; s. of Herbert William Hoover and Grace Steele; m. Carla Good 1941; one s. one d.; ed. Rollins Coll.; 2nd Lieut. U.S. Army 1943-45; Exec. Sales, The Hoover Co. 1941-43; Dir. of Public Relations 1945-48, Dir. 1945-, Asst. Vice-Pres. 1948-52, Sales Vice-Pres. 1952-53, Exec. Vice-Pres. 1953-54, Pres. 1954-, Chair. 1959-66; Dir. Hoover Co., Canada 1952-66, Pres. 1954-66; Dir. Hoover (Great Britain) Ltd. 1954-66, Chair. 1956-66; Dir. and Pres. Hoover (America Latina) S.A., Panama 1955-66, Hoover Mexicana, Mexico 1955-66, Hoover Inc., Panama, Hoover Industrial y Comercial S.A., Colombia 1960-67; Pres. and Chair. Hoover Worldwide Corpn. 1960-66; Pres. Dir.-Gen. S.A. Hoover, France 1965; fmr. Regional Vice-Chair. U.S. Cttee. for UN; Dir. The Harter Bank and Trust Co. Canton, Ohio; Chair. Hoover Foundation; mem. Council on Foreign Relations, New York; Trustee, Univ. of Miami, Florida; Dir. of the Miami Heart Inst.; Hon. LL.D. (Mount Union Coll.); Chevalier de la Légion d'honneur. *Address:* 70 Park Drive, Bal Harbour, Florida 33154, U.S.A. *Telephone:* 305-864-8865.

HOOYKAAS, Reijer, D.SC.; Netherlands university professor; b. 1 Aug. 1906, Schoonhoven; m. Ilona Van Asselt 1936; one s. four d.; ed. Utrecht Univ.; chem. teacher, Amsterdam 1930, Zeist 1932; Extraordinary Prof. of History of Science, Free Univ. of Amsterdam 1945-48, Prof. 1948-66, Prof. of History of Science, Univ. of Utrecht 1967-76; Visiting Prof. Open Univs. (U.K.) 1973-74; mem. Royal Netherlands Acad. of Sciences and Letters, Int. Acad. of History of Science, Hollandsche Maatschappij der Wetenschappen; Assoc. mem. Comité belge d'Histoire des Sciences; Foreign mem. Royal Flemish Acad. of Sciences and Acad. da Cultura Portuguesa; Corresp. mem. Inst. de Coimbra; Pres. Int. Comm. History Geological Sciences; Hon. D.Sc. (Coimbra); Knight Order of Nederlandse Leeuw, Commdr. Order of Polonia Restituta, Grande-Oficial Order of Infante D. Henrique. *Publications:* The Concept of Element, its historical-philosophical development 1933, Robert Boyle: a study in Science and Christianity 1943, The Chemical Revolution: A. L. Lavoisier 1952, Humanisme, science et réforme, Pierre de la Ramée 1958, The Principle of Uniformity in Geology, Biology and Theology 1959, 1963, 1970, Physik und Mechanik in historischer Hinsicht 1963, Introdução a História das Ciências 1965, Nature and History 1966, Catastrophism in Geology 1970, History of Science, from Babel to Bohr 1971, Religion and the Rise of Modern Science 1972, 1973; numerous articles in international historical and scientific journals. *Address:* Krullelaan 35, Zeist, Netherlands. *Telephone:* 03404-12488.

HOPE, Alec Derwent; Australian poet; b. 21 July 1907, Cooma, N.S.W.; s. of Rev. Percival Hope and Florence Ellen Scotford; m. Penelope Robinson 1938; two s. one d.; ed. Sydney and Oxford Univs.; fmr. Lecturer Sydney Teachers' Coll. and Sr. Lecturer Melbourne Univ.; Prof. of English, School of Gen. Studies, Australian Nat. Univ. 1951-68; Library Fellow, Australian Nat. Univ. 1969-72; retd. 1973; Fellow, Australian Acad. of the Humanities; Hon. D.Litt. (Australian Nat. Univ.) 1972, (New England) 1973, (Monash) 1976, (Melbourne) 1976; Arts Council Prize 1965, Britannica-Australia Award 1966, Levinson Prize for Poetry (Chicago) 1969, Ingram Merrill Award for Literature 1969. *Publications:* The Wandering Islands 1955, Poems 1960, The Cave and the Spring 1965, Collected Poems 1966, New Poems 1965-69, Dunciad Minor 1970, A Midsummer Eve's Dream 1970, Collected Poems 1930-1970 1972, Native Campanions 1974, A Late Picking 1975, A Book of Answers 1978, The New Cratylus 1979, The Pack of Autolycus 1979, verse and criticism in numerous magazines, including Meanjin, Southerly, M.U.M., Hermes, Quadrant, Westerly, Overland and The Southern Review. *Leisure interests:* camping, travel, reading, music. *Address:* 66 Arthur Circle, Canberra, A.C.T., Australia 2603. *Telephone:* 73-1342.

HOPE, Bob; American (b. British) comedian; b. 29 May 1903; m. Dolores Reade 1934; two s. two d.; first film 1938; since then has appeared in numerous films and radio and television productions; numerous hon. degrees and awards including American Congressional Medal of Honor 1963, Award of Entertainment Hall of Fame 1975; films include College Swing 1938, Road to Singapore 1940, Caught in the Draft 1941, Road to Morocco 1942, Let's Face It 1943, Road to Rio 1946, Paleface 1947, Fancy Pants 1949, My Favourite Spy 1951, Road to Bali 1952, Casanova 1953, That Certain Feeling 1956, Beau James 1957, Paris Holiday 1958, Alias Jesse James 1959, The Facts of Life 1960, The Road to Hong Kong 1961, Call Me Bwana 1962, A Global Affair 1964, I'll Take Sweden 1965, Boy, did I get a Wrong Number! 1966, Eight on the Run 1968, How to Commit Marriage 1969, The Road to Ruin 1972, Cancel My Reservation. *Publications:* They Got Me Covered 1941, I Never Left Home 1944, So This Is Peace 1946, Have Tux, Will Travel 1959, I Owe Russia $1200 1963, Five Women I Love 1966, The Last Christmas Show 1974, Road to Hollywood 1977. *Address:* Suite 3, 10000 Riverside Drive, Hollywood, Calif. 91602, U.S.A. (Office).

HOPE, Sir Charles Peter, K.C.M.G., B.SC., T.D.; British diplomatist (retd.); b. 22 May 1912, Dartmouth; s. of G. L. N. Hope; m. Hazel Mary Turner 1936; three s.; ed. Oratory School and Imperial Coll., London; joined War Office 1938; service with Royal Artillery 1939-46; entered Foreign Service 1946, served Paris 1946-50; Asst. Head, UN Dept., Foreign Office 1950-53; served as Counsellor, High Comm. Germany, later at Embassy 1953-56; Head of News Dept., Foreign Office 1956-59; Minister, Madrid 1959-62; Consul-Gen., Houston, U.S.A. 1963-64; Alternate Rep., UN 1964-68; Amb. to Mexico 1968-72; Grand Cross of the Aztec Eagle, Grand Officer Militar Melitense, Knight of Malta. *Leisure interests:* shooting and fishing. *Address:* North End House, Heyshott, Midhurst, Sussex, England.

HOPKIN, Sir (William Aylsham) Bryan, Kt., C.B.E.; British economist; b. 7 Dec. 1914, nr. Cardiff; s. of William Hopkin and Lilian Blanche Cottelle; m. Renée Henriette France Ricour 1938; two s.; ed. St. John's Coll., Cambridge, and Manchester Univ.; Ministry of Health 1938-41; Prime Minister's Statistical Branch 1941-45; Royal Comm. on Population 1945-48; Cabinet Office (Econ. Section, Cen. Statistical Office) 1948-52; Nat. Inst. of Econ. and Social Research 1952-57; Council on Prices, Productivity and Incomes 1957-58; Treasury (Econ. Section) 1958-65; Econ. Planning Unit, Mauritius 1965; Econ. Planning Staff, Ministry of Overseas Devt. 1965-68, Dir.-Gen. of Econ. Planning 1967-68; Dir.-Gen. Dept. of Econ. Affairs 1969; Dep. Chief Econ. Adviser to H.M. Treasury 1969-72, Chief Econ. Adviser 1974-77; Prof. of Econs., Cardiff Univ. 1972-74, 1976-. *Publications:* Articles on economic matters. *Leisure interests:* reading, music. *Address:* Aberthin House, Aberthin, Near Cowbridge, South Glamorgan CF7 74B, Wales. *Telephone:* Cowbridge 2303.

HOPKINS, Antony, C.B.E., F.R.C.M., L.R.A.M., F.R.S.A. ; British musician, author and broadcaster; b. 21 March 1921, London; m. Alison Purves 1947; ed. Berkhamsted School and Royal Coll. of Music; composed incidental music for theatre (Old Vic, Stratford-upon-Avon), radio and cinema; composed music for winning entries, Italia Prize 1952 and 1957; broadcaster in series Talking about Music; Dir. Intimate Opera Co. 1952-; City of Tokyo Medal 1973, Grand Prix, Besançon Film Festival for John and the Magic Music Man; Chappell Gold Medal, Cobbett Prize, Royal Coll. of Music. *Compositions:* Five studies for voices, Psalm 42, songs, recorder pieces, two ballets, Magnificat and Nunc Dimittis (for girls' choir), A Time for Growing, Three's Company, Dr. Musikus, Sonatine (for piano), Pieces for Talented Beginners, Partita (for solo violin), John and the Magic Music Man (for narrator and orchestra; filmed 1976), three piano sonatas and others. *Publications:* Talking about Symphonies 1961, Talking about Concertos 1964, Talking about

Sonatas 1971, Music Face to Face, Downbeat 1977, Understanding Music 1979. *Leisure interest:* motoring. *Address:* Woodyard, Ashridge, Berkhamsted, Herts., England.

HOPKINSON, Sir (Henry) Thomas, Kt., C.B.E., M.A.; British journalist and author; b. 19 April 1905, Manchester; s. of the Ven. J. H. Hopkinson and Evelyn Mary Fountaine; m. Dorothy Vernon (widow) 1953; three d.; ed. St. Edward's School and Pembroke Coll., Oxford; Asst. Ed. Weekly Illustrated 1934-38; Ed. Picture Post 1940-50, Lilliput 1941-46; Features Ed. News Chronicle 1954-56; Ed. Drum 1958-61; Dir. for Africa, Int. Press Inst. 1963-66; Sr. Fellow in Press Studies Univ. of Sussex 1967-69; Visiting Prof. of Journalism Univ. of Minnesota 1968-69; Dir. Centre for Journalism Studies, Univ. Coll., Cardiff 1970-75; contributor to The Sunday Times, The Observer, and British and American magazines; Hon. F.R.P.S. *Publications:* A Wise Man Foolish 1930, A Strong Hand at the Helm 1933, The Man Below 1939, Mist in the Tagus 1946, The Transitory Venus 1948, Down the Long Slide 1949, Love's Apprentice, George Orwell 1953, The Lady and the Cut-Throat 1958, In the Fiery Continent 1962, South Africa 1964, Picture Post 1938-50 (Ed.) 1970, Much Silence, The Life and Work of Meher Baba (with Dorothy Hopkinson) 1974, Treasures of the Royal Photographic Society 1979. *Address:* 6 Marine Parade, Penarth, Glamorgan, Wales. *Telephone:* Penarth 703354.

HOPPE, Iver; Danish shipping executive; b. 25 July 1920, Aarhus; s. of Arthur Hans Knudsen Hoppe and Gerda Raun Byberg; m. Ingeborg Lassen 1943; one d.; ed. Univ. of Copenhagen; Act. Lecturer, Copenhagen Univ. 1946, Jurisprudential Lecturer 1952-58; Advocate to the High Court and Court of Appeal 1948-; joined A. P. Møller Concern, Copenhagen 1955, Asst. Dir. 1960-64, Man. Dir. Odense Steet Shipyard Ltd., Odense and Lindø 1964-71; Chair. A/S Svendborg Skibvaerft 1968-71; Chair. Harland Ocean Transport Co. Ltd. 1971; Man. Dir. and Chief Exec., Harland and Wolff Ltd. 1971-74; mem. Bd. Dansk Boreselskab A/S and other cos. until 1971, Den Danske Landmandsbank A/S 1970-72, Danish Ship Credit Fund 1965-71; mem. Council, Danish Nat. Bank 1967-71; mem. Assen. of Danish Shipyards 1964-71, Assen. of Employers of Iron and Metal Industry in Denmark 1967-71, Assen. of Danish Industries 1965-72, West of England Steam Ship Owners Protection and Indemnity Assen. Ltd. 1960-66, Danish Acad. of Technical Sciences, Shipbuilders and Repairers Nat. Assen. Exec. Council and Man. Bd., Northern Ireland Finance Corpn., British Iron and Steel Consumers' Council, Lloyd's Register of Shipping, General Cttee., Det Norske Veritas (British Cttee.), American Bureau of Shipping and other Danish and foreign orgs.; Knight of Dannebrog, Knight of Icelandic Falcon. *Leisure interests:* swimming, reading, mountain walking, farming. *Address:* Malmmosegård, Dyreborgvej 7, 5600 Fåborg, Denmark.

HORECKER, Bernard L., B.S., PH.D.; American bio-chemist; b. 31 Oct. 1914, Chicago, Ill.; s. of Paul Horecker and Bessie Horecker; m. Frances Goldstein 1936; three d.; ed. Univ. of Chicago; Research Assoc., Dept. of Chem., Univ. of Chicago 1939-40; Examiner U.S. Civil Service Comm., Washington, D.C. 1940-41; Biochemist U.S. Public Health Service (U.S.P.H.S.) Nat. Insts. of Health (N.I.H.) Industrial Hygiene Research Lab. 1941-47, Nat. Inst. of Arthritis and Metabolic Diseases 1947-53, Chief, Section on Enzymes and Cellular Biochemistry, N.I.H. Nat. Inst. of Arthritis and Metabolic Diseases 1953-56; Head Lab. of Biochemistry and Metabolism 1956-59; Prof. and Chair. Dept. of Microbiology, New York Univ. School of Medicine 1959-63, Dept. of Molecular Biology Albert Einstein Coll. of Medicine 1962-71, Dir. Div. of Biol. Sciences 1970-72, Assoc. Dean for Scientific Affairs 1971-72; Vice-Chair. Div. of Biological Chem., A.C.S. 1975-76, Chair. 1976-; mem. Roche Inst. of Molecular Biology 1972-, Head Lab. of Molecular Enzymology 1977-; professional Lecturer on Enzymes, George Washington Univ. 1950-57; Visiting Prof., Univ. of Calif. 1954, Univ. of Ill. 1957, Univ. of Paraná, Brazil, 1960, 1963, Cornell Univ. 1964, Univ. of Rotterdam 1970; Visiting Investigator, Pasteur Inst. 1957-58, Indian Inst. of Science, Bangalore 1971; Ciba Lecturer, Rutgers Univ. 1962; Phillips Lecturer, Haverford Coll. 1965; Reilly Lecturer, Notre Dame Univ. 1969; Visiting Prof., Albert Einstein Coll. of Medicine 1972-; Adjunct Prof., Cornell Univ. Medical Coll. 1972-; Editor Biochemical and Biophysical Research Communications 1959-; Chair. Editorial Cttee. Archives of Biochemistry and Biophysics 1968-; mem. Scientific Advisory Bd., Roche Inst. of Molecular Biology 1967-70, Chair. 1970-72; Dir. Academic Press 1968-; mem. Comm. on Personnel, American Cancer Soc. 1969-73; Medical Scientist Training Program Study Section N.I.H. 1970-72; mem. Scientific Advisory Comm. for Biochem. and Chemical Cardiogenesis, American Cancer Soc. 1974-; Pres. American Soc. of Biological Sciences 1968-69, Harvey Soc. of New York 1970-71; Vice-Chair. Pan American Assen. of Biochemical Socs. 1971, Chair. 1972; mem. Nat. Acad. of Sciences; Hon. mem. of Swiss, Japanese, Spanish Socs., Brazilian Acad. Sciences; Fellow, American Acad. of Arts and Sciences; Paul Lewis Labs. Award in Enzyme Chem. 1952, Fed. Security Agency's Superior Accomplishment Award 1952, Hillebrand Prize, A.C.S. 1954, Washington Acad. of Sciences Award in Biological Sciences 1954, Rockefeller Public Service Award 1957. *Leisure interests:* gardening, ornithology. *Address:* Roche Institute of Molecular Biology, Nutley, New Jersey 07110, U.S.A. *Telephone:* 201-235-3464.

HORGOS, Dr. Gyula; Hungarian mechanical engineer and politician; b. 23 July 1920, Nagyvárad (now Oradea in Romania); s. of Pal Horgos; two s. one d.; ed. Budapest Technical Univ.; Engineer, Csepel Machine Tool Plant 1943-49; post-graduate studies 1949-53; Chief Engineer, Csepel Metal Works 1954, later Vice-Pres. Nat. Planning Office, later Technical Dir. Csepel Metal Works; Dep. Minister of Metallurgy and Machine Industry 1960-63, Minister 1963-75; mem. CP 1945-, Cen. Cttee. 1972-75; Labour Order of Merit Gold Medal 1969. *Leisure interests:* mathematics and chess. *Address:* c/o Ministry of Metallurgy and Machine Industry, Mártirok utja 85, 1525 Budapest, Hungary. *Telephone:* 123-590.

HORI, Shigeru; Japanese politician; b. 20 Dec. 1901, Saga Prefecture; 2nd s. of Asajiro Hori; m. Toyo Hori; two s. two d.; ed. Chuo College; Political Reporter in Hochi and Tonichi newspapers 1924-28; Sec. to Minister of Agriculture; mem. House of Reps. 1944; successively Parl. Vice-Minister of Commerce and Industry, mem. Exec. Bd. Japan Progressivist Party, Sec.-Gen. of Democratic Party; Minister of Labour 1950; Sec.-Gen. of Cabinet 1951; Minister of Agric. and Forestry 1953, of Construction 1967; Sec.-Gen. of Cabinet 1968-71; Dir. Admin. Man. Agency 1973-74; Speaker, House of Reps. Dec. 1976-; mem. Exec. Bd. Liberal-Democratic Party 1953. *Leisure interests:* go and golf. (Deceased.)

HORIKOSHI, Teizo, LL.B.; Japanese business executive; b. 13 Dec. 1898; ed. Tokyo Imperial Univ.; entered Bank of Japan 1924, Dir. 1947-; Deputy Dir. Econ. Stabilization Agency 1947; Sec.-Gen. Japanese Nat. Cttee. of Int. Chamber of Commerce 1950; Exec. Dir. and Sec.-Gen. Japan Fed. of Econ. Orgs. (Keidannen) 1954-; Auditor, Toho Mutual Life Insurance Co. 1959-; Pres. Securities and Exchange Council, Ministry of Finance 1961-; Pres. Nippon Usiminas Co. Ltd. 1965-76, Chair. 1976-; Hon. C.B.E. (U.K.) 1966. *Address:* Kyodo 2-23-5, Setagaya-ku, Tokyo, Japan.

HORNE, Marilyn; American mezzo-soprano singer; b. 16 Jan. 1934, Bradford, Pa.; d. of Bentz and Berneice Horne; one d.; ed. Univ. of Southern California (under William Vennard); performed with several German opera cos. in Europe 1956; debut, San Francisco Opera 1960; has since appeared at Covent Garden, London, the Chicago Lyric Opera, La Scala, Milan, Metropolitan Opera, New York; repertoire includes Eboli (Don Carlo), Marie (Wozzeck), Adalgisa (Norma), Jane Seymour (Anna Bolena), Amneris (Aida), Carmen, Rosina (Barbiere di Siviglia), Fides (Le Prophète), Mignon, Isabella (L'Italiana in Algeri), Romeo (I Capuletti ed i Montecchi), Tancredi (Tancredi), Orland (Orlando Furioso); five hon. doctorates. *Leisure interests:* needlepoint, swimming, reading, sightseeing. *Address:* c/o Metropolitan Opera Association, Lincoln Center, New York, N.Y. 10023, U.S.A.

HORNER, Hon. John Henry (Jack), P.C.; Canadian politician; b. Blaine Lake, Sask.; s. of late Senator R. B. Horner and of Mae Horner (née Macarthur); m. Leola Margaret Funnell 1950; three s.; ed. Olds School of Agriculture and Univ. of Alberta; mem. House of Commons 1958-79; Minister without Portfolio April-Sept. 1977, of Industry, Trade and Commerce 1977-79; mem. Canadian Privy Council; Liberal Party. *Leisure interests:* horse riding, golf, curling, skating, baseball. *Address:* c/o House of Commons, Ottawa, Ont. K1A 0A7, Canada.

HORNER, Richard Elmer, B.S., M.S.E.; American business executive; b. 24 Oct. 1917, Wrenshall, Minn.; s. of Marion Chester and Maude Eckert Horner; m. Jean Margaret Hodgson 1941; one s. one d.; ed. Univ. of Minnesota and Princeton Univ.; U.S.A.F. 1940-49; civilian aeronautical devt. engineer, Air Force Flight Test Center, Edwards Air Force Base, Calif. 1949-53, Technical Dir. 1953-55; Deputy for Requirements to Asst. Sec. of Air Force for Research and Devt. 1955-57; Asst. Sec. to A.F. for Research and Devt. 1957-59; Assoc. Administrator, Nat. Aeronautics and Space Admin. 1959-60; Sr. Vice-Pres. (Technical) Northrop Corpn. 1960-70; Pres., E. F. Johnson Co. 1970-; Fellow, American Inst. of Aeronautics and Astronautics; American Ordnance Assen., American Astronautical Soc., Soaring Soc. of America; Silver Star, Air Medal with 4 clusters, Presidential Unit Citation. *Leisure interests:* skiing, sailing. *Address:* E. F. Johnson Co., Waseca, Minn. 56093 (Office); 905 11th Street, N.E., Waseca, Minn. 56093, U.S.A. (Home). *Telephone:* (507) 835-2050 (Office); (507) 835-5176 (Home).

HORNIG, Donald Frederick; American chemist and university administrator; b. 17 March 1920, Milwaukee, Wis.; s. of Chester Arthur and Emma (Knuth) Hornig; m. Lilli Schwenk 1943; one s. three d.; ed. Harvard Univ.; Research Assoc. Woods Hole (Mass.) Oceanographic Inst. 1943-44; Scientist, Los Alamos Lab., New Mexico 1944-46; Pres. Radiation Instruments Co. 1945-47; Asst. Prof. of Chemistry Brown Univ. 1946-49, Assoc. Prof. 1949-51, Prof. 1951-57, Dir. Metcalf Research Lab. 1949-57; Assoc. and Acting Dean, Graduate School, Brown Univ. 1952-53, Pres. Brown Univ. 1970-76; Prof. of Chemistry Princeton Univ. 1957-63, Chair. Dept. 1958-63, Donner Prof. of Science 1959-63; Dir. W. A. Benjamin Inc. 1962-64; Dir. Office of Science and Technology, Exec. Office of Pres. of U.S.A. 1964-69; Vice-Pres. and Dir. Eastman Kodak Co. 1969-70; Hon. Research Assoc. in Applied Physics, Harvard Univ. 1976-77, Prof. of Chemistry in Public Health, Dir. Interdisciplinary Programs in Health; Dir. Upjohn Co. 1971-, Westinghouse Electric Co. 1972-; mem. Bd. of Trustees, Manpower Inst. 1970-, Overseas Devt. Council 1969-; mem. American Chemical Soc., American Physical Soc., etc., Hon. mem. Nat. Acad. of Sciences (U.S.A.), American Acad. of Arts and Sciences, etc.; numerous awards and hon. degrees. *Address:* 16 Longfellow Park, Cambridge, Mass. 02138, U.S.A. (Home).

HOROWITZ, David; Israeli economist; b. 15 Feb. 1899, Drohobic; s. of Siegmund and Fanny Horowitz; m. Riva Bobkov 1922; one s.; ed. Vienna and Lwów; mem. Exec. Cttee. Gen. Fed of Jewish Labour 1923; journalist and writer; Econ. Adviser and Sec., American Econ. Cttee. for Palestine 1932-35; Dir. Econ. Dept. of Jewish Agency for Palestine; mem. various Govt. Cttees. under Mandatory Regime, and Dir. various enterprises 1935-48; fmr. Dir.-Gen. Ministry of Finance (resgnd. 1952), Gov.-Designate Bank of Israel 1952-54, Gov. 1954-71, Chair. Advisory Cttee. and Council 1971-; Lecturer, High School for Law and Econs., Tel-Aviv 1946-50; Liaison Officer to UN Special Cttee. on Palestine 1946; mem. Jewish Del. to Lake Success 1947; Head of Israel Del. to Econ. Survey Comm. of UN 1948; Head of Israel Del. Financial Talks on Sterling Releases between Israel and U.K., London 1949, and in negotiations between Israel and U.K. on econ. and financial affairs in connection with termination of the Mandate; fmr. mem. Bd. of Govs. Int. Bank of Reconstruction and Devt. (World Bank); Chair. Bd. of Dirs. The Eliezer Kaplan School of Econ. and Soc. Sciences, Hebrew Univ., mem. State Council for Higher Educ.; mem. Bd. of Govs. Hebrew Univ., Tel-Aviv Univ.; mem. Exec. Council, Weizmann Inst.; mem. Bd. of Trustees Truman Center for Advancement of Peace; Hon. Pres. Inst. for Int. Relations (Rome); Head, Israel Del. to UN Conf. on Trade and Devt. Geneva 1964; Israel Prize of Social Sciences 1967; Dr. h.c. (Hebrew Univ. and Tel-Aviv Univ.). *Publications:* Aspects of Economic Policy in Palestine 1936, Jewish Colonisation in Palestine 1937, Economic Survey of Palestine (with Rita Hinden) 1938, Palestine Jewry's Economic War Effort 1942, Postwar Reconstruction 1942, Palestine and the Middle East, An Essay in Regional Economy 1943, Prediction and Reality in Palestine 1945, State in the Making 1953, Anatomie unserer Zeit 1964, Hemispheres North and South 1966, The Economics of Israel 1967, The Abolition of Poverty 1969, The Enigma of Economic Growth, A Case Study of Israel 1972, Chayim Bemoked 1975, Mavo Lebeayot Zmanenu 1976; and several publs. in Hebrew. *Leisure interests:* writing books and articles. *Address:* Bank of Israel, Mizpah Building, Jersusalem; 4 Lamed Heh Street, Jerusalem, Israel (Home). *Telephone:* 27026 (Office); 33182 (Home).

HOROWITZ, Norman Harold, PH.D.; American biologist; b. 19 March 1915, Pittsburgh, Pa.; s. of Joseph Horowitz and Jeanette Miller; m. Pearl Shykin 1939; one s. one d.; ed. Univ. of Pittsburgh and Calif. Inst. of Technology; National Research Council Fellow 1939-40; Research Fellow, Calif. Inst. of Technology, Pasadena 1940-42; Research Assoc. Stanford Univ. 1942-46; Assoc. Prof. of Biology, Calif. Inst. of Technology 1947-53, Prof. 1953-, Chair., Division of Biology 1977-; Chief, Bioscience Section, Jet Propulsion Lab., Pasadena 1965-70; Fulbright and Guggenheim Fellow, Univ. of Paris 1954-55; Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences. *Publications:* numerous technical articles on genetics, biochemistry and space exploration. *Leisure interests:* gardening, music. *Address:* Biology Division, California Institute of Technology, Pasadena, Calif. 91125, U.S.A. *Telephone:* 213-795-6811.

HOROWITZ, Vladimir; American pianist; b. 1 Oct. 1904, Russia; s. of Samuel and Sophie (née Bodik) Horowitz; m. Wanda Toscanini 1933; one d.; studied under Felix Blumenfeld and Sergei Tarnowsky; first appearance 1917; U.S. debut with New York Philharmonic Orchestra 1928; soloist New York Symphony Orchestra, Philadelphia Orchestra, NBC Symphony Orchestra, Cleveland, Boston, Chicago, Detroit and St. Louis and other orchestras; Royal Philharmonic Soc. Gold Medal 1972, Prix du Disque 1970, 1971 and winner of 12 Grammy awards for best classical performance. *Leisure interest:* collecting antique American furniture and Americana. *Address:* c/o Shaw Concerts, Inc., 1995 Broadway, New York, N.Y. 10023, U.S.A.

HORROCKS, Lieut.-Gen. Sir Brian Gwynne, K.C.B., K.B.E., D.S.O., M.C.; British army officer; b. 7 Sept. 1895, Ranikhet, India; s. of late Sir William H. Horrocks; m. Winifred Nancy Brook Kitchin 1928; one d.; ed. Uppingham and Royal Military Coll.; served First World War 1914-18; Commdr. 44th (H.C. Div.), 9th Armoured Div., XIII Corps, X Corps in Egypt and Africa, IX Corps in Tunis, XXX Corps in B.L.A. 1939-45; G.O.C.-in-C. Western Command 1946-48; G.O.C.-in-C. British Army of the Rhine 1948-49; Gentleman Usher of The Black Rod, House of Lords 1949-63; Dir. Bovis Ltd. 1963-; Hon. LL.D. (Belfast); Hon. Freeman City of Brussels; Commdr. Légion d'honneur, Croix de guerre avec palmes (France and Belgium), Grand Officer Order of Belgian Crown; Commdr. Order of George I (Greece), Legion of Merit (U.S.A.), Knight Grand Cross, Order of Orange-Nassau (Netherlands). *Publications:* A Full Life 1960, Corps Commander 1977. *Leisure interests:* reading, writing. *Address:* Manor Farm, East Compton, Shepton Mallet, Somerset, England.

HORSFALL, James Gordon, B.SC., PH.D.; American plant pathologist and science administrator; b. 9 Jan. 1905, Mountain Grove, Mo.; s. of Frank Horsfall and Margaret Vaulx Horsfall; m. Sue Belle Overton 1927; two d.; ed. Univ. of Arkansas and Cornell Univ.; Instructor, Cornell Univ. 1928-29, Asst. Prof. to Prof. 1929-39; Chief of Dept. of Plant Pathology, Conn. Agricultural Experiment Station 1939-48, Dir. 1948-71, S. W. Johnson Distinguished Scientist, Dir. Emer. 1972-; Ed. Annual Review of Phytopathology 1962-71; Lecturer in Microbiology, Yale Univ. 1950-63; Fellow and Pres. American Phytopathological Soc. 1951; Pres. Soc. of Industrial Microbiology 1954; Consultant, Pres. Science Advisory Cttee. 1960-69, NASA 1972-, Environmental Protection Agency 1975-; Pres. IXth Int. Congress of Plant protection 1979; mem. Advisory Cttee. on Biology and Medicine U.S. Atomic Energy Comm. 1957-64, Nat. Advisory Comm. on Food and Fiber 1965-67, Latin America Science Bd., Nat. Acad. of Sciences 1965-66; Chair. Agricultural Bd., Nat. Acad. of Sciences 1971-73; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences; Hon. mem. Società Italiana de Fitoiatria, Pavia, Italy; mem. Accad. Nazionale di Agricoltura (Italy); Hon. Fellow, Indian Phytopathological Soc.; Hon. D.Sc. (Vermont), D.Agr. (Turin), LL.D.; Award of Distinction, American Inst. of Biological Science 1974. *Publications:* Fungicides and Their Action 1945, Principles of Fungicidal Action 1956, Plant Pathology—An Advanced Treatise (3 vols.) 1959-60, Plant Disease—An Advanced Treatise (ed) (1st vol.) 1977; numerous station bulletins and articles in scientific journals. *Leisure interests:* woodworking, gardening. *Address:* Connecticut Agricultural Experiment Station, 123 Huntington Street, P.O. Box 1106, New Haven, Conn. 06504; 49 Woodstock Road, Hamden, Conn. 06517, U.S.A. (Home). *Telephone:* 203-787-7421 (Office); 203-248-3577 (Home).

HÖRSTADIUS, Sven (Otto); Swedish zoologist; b. 18 Feb. 1898, Stockholm; s. of Wilhelm Hörstadius and Svea Hård; m. Greta Kjellström 1928; one s. one d.; ed. Univ. of Stockholm; Reader in Zoology, Univ. of Stockholm 1928-32; Assoc. Prof. 1932-42; Head of Dept. of Developmental Physiology and Genetics, Wennergren Inst. of Experimental Biology 1938-42; Prof. of Zoology, Uppsala Univ. 1942-64; research work at several marine biological stations all over the world; Pres. Int. Union of Biological Sciences 1953-58; Pres. Sveriges Ornitologiska Forening 1947-68; Pres. Int. Council Scientific Unions 1962-63; Chair. European Section of Int. Council for Bird Preservation 1960-72; Fellow, Royal Swedish Acad. of Science, Royal Soc. of Science, Uppsala, Royal Danish Acad. of Science, Acad. Pontificio, Rome; foreign mem. Royal Soc., London, Accad. Naz. dei Lincei, Rome, Finnish Soc. of Science, Zoological Soc., London; hon. mem. Belgian Royal Zoological Soc., Soc. Zoologique de France, British Ornithologists Union, Soc. Philomatique, Paris, Royal Inst. of Gt. Britain, etc.; Gen. Sec. Congress of Ornithology, Uppsala 1950; Dr. h.c. (Univs. of Paris, Bristol and Cambridge); Prix Albert Brachet of Belgian Royal Acad. of Science 1938. *Publications:* The Neural Crest 1950, Experimental Embryology of Echinoderms 1973. *Leisure interests:* bird photography, ornithology, tourism. *Address:* Zoologiska Institutionen, 751 22 Uppsala, Sweden. *Telephone:* 018-111818 (Inst.); 018-302202 (Home).

HORTON, Alexander Romeo; Liberian banker; b. 20 Aug. 1923, Monrovia; s. of Rev. Dr. Daniel R. Horton and Ora Milner Horton; m. Mary E. C. Horton 1956; one s. two d.; ed. B.W.I. Inst. Coll. of West Africa, Morehouse Coll., Atlanta, U.S.A. and Wharton School of Finance and Commerce, Pennsylvania Univ.; Founder and Pres.,

Bank of Liberia 1954-76; Asst. Econ. Adviser to Liberian Govt. 1954-63; Chair. Steering Cttee. of Conf. of African Businessmen 1960; Chair. ECA Cttee. of Nine African Countries on African Devt. Bank 1962; Sec. of Commerce and Industry, Liberia 1964-68; Man. Dir. Fund for Co-operation, Compensation and Devt., of the Econ. Community of West African States (ECOWAS) 1977-; Pres. Liberia Bankers Assn.; Dean, Coll. of Business and Public Admin,, Univ. of Liberia; Chair. Liberia Insurance Agency; has attended numerous int. confs.; decorations include Knight Commdr. Order of Ivory Coast, Grand Commdr. Order of Star of Africa, Grand Band Order of Star of Africa, Grand Cross Order of Orange-Nassau. *Leisure interest:* reading. *Address:* ECOWAS Fund, B.P. 2704, Lomé, Togo. *Telephone:* Lomé 6224 (Office).

HORTON, Jack King; American businessman; b. 27 June 1916, Stanton, Neb. m. Betty Lou Magee 1937; one s. two d.; ed. Stanford Univ. and Oakland Coll. Law School; admitted to Calif. Bar 1941; Treasury Dept. Shell Oil Co. 1937-42; private law practice 1942-43; Attorney, Standard Oil Co. 1943-44; Sec., Legal Counsel, Coast Counties Gas & Electric Co. 1944-57, Pres. 1951-54; Vice-Pres. Pacific Gas & Electric Co., San Francisco 1954-59; Pres. S. Calif. Edison Co. 1959-, Chief Exec. Officer 1965-, Chair of Bd. 1968-; Dir. United Calif. Bank, Pacific Mutual Life Insurance, Lockheed Aircraft Corpn. *Address:* 2244 Walnut Grove Avenue, Rosemont, Calif. 91770, U.S.A. (Office).

HORWOOD, Owen Pieter Faure, B.COM.; South African economist and politician; b. 6 Dec. 1916, Somerset West; s. of late Stanley Ebden Horwood and Anna Johanna Horwood; m. Helen Mary Watt 1946; one s. one d.; ed. Boys' High School, Paarl, Univ. of Cape Town; Assoc. Prof. of Commerce, Univ. of Cape Town 1954-56; Prof. of Econs., Univ. Coll. of Rhodesia and Nyasaland 1956-57; Prof. of Econs., Univ. of Natal 1957-65, Prin. Vice-Chancellor 1966-70; Senator, Dir. of Cos. 1970-; Minister of Indian Affairs and Tourism 1972-74, of Econ. Affairs 1974-75, of Finance Feb. 1975-; Leader of the Senate 1978-; Pres. Econ. Soc. of South Africa 1964, 1965; Chair., mem. several govt. comms. including Sugar Industry Comm. 1967-69, Universities Comm. 1968-72; Chancellor, Univ. of Durban-Westville; Gen. Ed., Natal Regional Survey Publs. 1958-69. *Publications:* Economic Systems of the Commonwealth (Co-author) 1962, and numerous articles on economics and finance in professional journals. *Leisure interests:* sport, gardening, book collecting. *Address:* Private Bag X115, Pretoria, South Africa. *Telephone:* Pretoria 744199.

HOSS, Dr. Selim al-; Lebanese politician and professor of economics; b. 1930; Chair. Banking Control Comm. 1967-73; Chair. Nat. Bank for Industrial and Tourist Devt. 1973-76; Prime Minister Dec. 1976-, Minister of the Econ. and Trade and Information 1976-79, of Industry and Petroleum 1976-77. *Address:* Cabinet du président du Conseil des Ministres, Place de l'Etoile, Beirut, Lebanon.

HOTCHKISS, Rollin Douglas, B.S., PH.D; American bacterial physiologist; b. 8 Sept. 1911, S. Britain, Conn.; s. of Charles Leverett Hotchkiss and Eva Judith Platt; m. 1st Shirley Dawson 1933, 2nd Magda Gabor 1967; one s. one d.; ed. Yale Univ; Fellow, Rockefeller Inst. (later Rockefeller Univ.) 1935, Asst., Assoc., Assoc. Prof., then Prof. 1955-; Rockefeller Foundation Fellow, Copenhagen, Carlsberg Lab. 1937-38; Visiting Prof. of Biology, M.I.T. 1958, Univ. of Utah 1972, 1973; visiting Prof. of Genetics, Univ. of Calif. at Berkeley 1968; Visiting Scientist, Hungarian Acad. of Sciences, Inst. of Genetics, Szeged 1972, 1974, 1975; Visiting Prof. of Microbiology, Univ. of Paris, Orsay 1975; Fogarty Scholar-in-Residence, Nat. Insts. of Health, Bethesda 1971-72; Jesup Lecturer, Columbia Univ. 1954, Dyer Lecturer, Nat. Insts. of Health 1961; mem. Nat. Acad. of Sciences, American Assn. Biol. Chemists, American Soc. Cell Biol., Harvey Soc. (Pres. 1958), Genet Soc. of America (Pres. 1972); Hon. mem. Hungarian Acad. of Science 1976; Hon. D.Sc. (Yale Univ.) 1962; Fellow-Commoner, Corpus Christi Coll., Cambridge 1970; Award in Antibiotics Research, Soc. of American Bacteriologists 1953. *Publications:* About 100 scientific articles and monographs including: Gramicidin, tyrocidin and tyrothricin 1944, Bacterial action of surface active agents 1946, Microchemical reaction for polysaccharides 1948, Chemical studies on transforming agent 1949, Transfer of penicillin resistance by DNA 1951, Double Marker transformations as evidence of linked factors in DNA 1954, Criteria for quantitative genetic transformation 1957, Analysis of the sulfonamide resistance locus 1958, Fate of transforming DNA 1960, Selective heat inactivation of DNA 1961, Regulation of transformability 1964, Genetic engineering 1965, Mutationally modified specific exonucleases 1971, 1972, Mechanism of Recombination 1971, 1973, 1974. *Leisure interests:* mineralogy, charcoal-drawing, boat-construction, stained glass construction. *Address:* Laboratory of Genetics, Rockefeller University, 66th Street and York Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* 212-360-1323.

HOTSON, Leslie, A.B., A.M., PH.D., M.A., LITT.D. (Cantab.), F.R.S.L.; American literary scholar; b. 16 Aug. 1897; ed. Harvard Univ.; travelling Scholar and Fellow 1922-25 and Instructor, Harvard Univ. 1924-25; Sr. Research Fellow, Yale Univ. 1926-27, Research Assoc. 1953-66; Assoc. Prof. of English, New York Univ. 1927-31; Prof. of English, Haverford Coll. 1931-42; Capt. U.S. Army Signal Corps 1943-46; Fulbright Sr. Research Fellow, England 1949-50; Fellow, King's Coll., Cambridge 1954-60. *Publications:* The Death of Christopher Marlowe 1925, The Commonwealth and Restoration Stage 1928, Shelley's Lost Letters to Harriet 1930, Shakespeare versus Shallow 1931, I, William Shakespeare 1937, Shakespeare's Sonnets Dated 1949, Shakespeare's Motley 1952, Queen Elizabeth's Entertainment at Mitcham 1953, The First Night of Twelfth Night 1954, Shakespeare's Wooden O 1959, Mr. W. H. 1964. *Address:* White Hollow Road, Northford, Conn., U.S.A.

HOTTA, Shozo; Japanese banker; b. 23 Jan. 1899, Nagoya; ed. Dept. of Econs., Kyoto Imperial Univ.; joined Sumitomo Bank Ltd. 1926, Man. Tokyo Branch 1945, Chief Man 1947, Man. Dir. and Deputy Pres. 1947, Pres. 1952-71, Chair. 1971-77; Dir. Nippon Electric Co. Ltd., Sumitomo Real Estate Co. Ltd., Mitsui-OSK Lines Ltd.; Auditor, Kansai Oil Co. Inc., Asahi Breweries Ltd., Osaka Int. Trade Center Ltd., Meishin Kosoku Jidosha Co. Ltd.; Adviser to Kansai Electric Power Co. Inc., Sumitomo Atomic Energy Industries Ltd.; Adviser to Ministry of Foreign Affairs; Exec. Dir. Japan Fed. of Econ. Orgs. (Keidanren); Pres. Japan-Spanish Soc.; Roving Amb. in Europe 1957; leader of govt. mission to EFTA countries 1963; visited Latin America 1967, Europe 1968 on behalf of Minister in charge of Expo 70; Blue Ribbon Medal, Commdr. Orden de Isabel la Católica (Spain). *Leisure interests:* reading and fine arts. *Address:* The Sumitomo Bank Ltd., P.O. Box 45, Osaka Central, 530-91; 22, 5-chome, Kitahama, Higashi-tu, Osaka, Japan.

HOTTEL, Hoyt Clarke, A.B., S.M.; American professor of chemical engineering and engineering consultant; b. 15 Jan. 1903, Salem, Ind.; s. of Louis Weaver and Myrtle Clarke Hottel; m. Nellie Louise Rich 1929; one s. three d.; ed. Indiana Univ. and Massachusetts Inst. of Technology (M.I.T.); Asst. Prof., M.I.T. 1927-41, Prof. of Fuel Eng. 1941-66, Carbon Dubbs Prof. of Chemical Eng. 1966-68, Prof. Emer. 1968-; Dir. Fuels Research Lab. 1934-68; Section Chief on Fire Warfare, Nat. Defense Cttee. 1942-45; Chair. Nat. Acad./Nat. Research Council Cttee. on Fire Research 1955-67, American Flame Research Cttee. 1952-73; Vice-Pres. Combustion Inst. 1952-64; mem. numerous other scientific cttees. and comms.; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng., American Acad. of Arts and Sciences, A.C.S.; Fellow, American Inst. of Chemical Engineers; numerous medals and awards including U.S. Medal for Merit, Egerton Gold Medal, King's Medal for Service in the Cause of Freedom (U.K.), Gold Medal, Royal Soc. *Publications:* Thermodynamic Charts for Combusion Processes (with others) 1949, Radiative Transfer (with A. F. Sarofim) 1967, New Energy Technology—Some Facts and Assessments 1971; sections in handbooks and about 125 papers on combustion, thermodynamics, jet and flame structure, radiative transfer, solar energy utilization. *Leisure interests:* gardening, books, grandchildren. *Address:* Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 02139; 27 Cambridge Street, Winchester, Mass. 01890, U.S.A. (Home). *Telephone:* (617) 253-4578 (Office); (617) 729-3873 (Home).

HOTTER, Hans; German singer; b. 19 Jan. 1909; ed. Munich; concert debut 1929, opera debut 1930; mem. Vienna, Hamburg and Munich Opera cos.; has appeared in concerts and operas in major cities in Europe, Australia and the U.S., and in Festivals at Salzburg, Bayreuth and Edinburgh; renowned for Wagnerian roles; retd. 1972. *Address:* Emil Dittlerstrasse 26, Munich-Solin, Federal Republic of Germany.

HOTTINGUER, Baron Rodolphe; French banker; b. 16 Oct. 1902, Paris; m. Odette Basset 1934; two s. two d.; ed. Ecole des Hautes Etudes Commerciales; Assoc. Hottinguer & Cie., Bankers; Pres. Assn. Française des Banques 1943-, Union pour l'épargne privée (Optima) 1968-; Vice-Pres. Kléber-Colombes 1970-; Pres. Banque Grindlay Ottomane 1969-; Censeur, Crédit Foncier de France 1956-; Dir. Schneider S.A., Chatillon Commentry, Tréfimétaux, Union Européenne Industrielle et Financière, Mines et Fonderies de la Vielle Montagne, Grindlays Bank Ltd.; Vice-Pres. Chamber of Commerce and Industry of Paris 1960-62, Pres. 1962-64, First Vice-Pres. 1976-; Pres. Int. Chamber of Commerce (ICC) 1971-73; Commdr. Légion d'honneur, Officier de l'Ordre nat. du Mérite, Officier des Palmes académiques, Croix de guerre (1939-45), Commdr. du Mérite commercial et de l'Economie nationale. *Address:* 4 rue de la Baume, 75008 Paris, France.

HOUCHIN, John Marvin, B.S.; American business executive; b. 11 Jan. 1909, Jackson, Miss.; s. of John Chambers Houchin and Ada Chamblin Houchin: m. Louise Dobson 1930; two s. one d.; ed. Univ. of Oklahoma; joined Phillips Petroleum Co. 1933 working in an engineering capacity, later Asst. Gen. Supt. production dept., Bartlesville, Gen. Supt. 1951, Chair. Operating Cttee. 1956, Dir. and Vice-Pres. 1957-62, Exec. Vice-Pres. 1962-67, Chair. Exec. Cttee. 1967-68, Pres. 1968-71, Deputy Chair. and Deputy Chief Exec. Officer 1971, Chair. 1973; Trustee, Oklahoma Univ. Foundation; Dir. First Nat. Bank, Bartlesville, Trust Co., Tulsa; mem. Bd. of Dirs. American Petroleum Inst., Mid-Continent Oil and Gas Assen. *Leisure interests:* golf, hunting, fishing, spectator sports. *Address:* 1529 Hillcrest Drive, Bartlesville, Okla. 74003, U.S.A.

HOUGHTON, Amory, A.B.; American industrialist; b. 27 July 1899, Corning, N.Y.; s. of Alanson B. Houghton and Adelaide L. Wellington; m. Laura DeKay Richardson 1921; three s. two d.; ed. Harvard Univ.; with Corning Glass Works 1921-, Exec. Vice-Pres. 1928-30, Pres. 1930-41, Chair. Bd. 1941-61, Chair. Exec. Cttee. 1961-64, Hon. Chair. Bd. 1964-71, Chair. Emer. 1971-; Dir. Pittsburgh-Corning Corpn., First Nat. City Bank 1937-68, Dow Corning Corpn., Metropolitan Life Insurance Co. 1938-73; Dir.-Gen. of Operations, War Production Bd, 1942; Deputy Chief Econ. Affairs Mission, London 1944; Amb. to France 1957-61; mem. Business Advisory Council Dept. of Commerce 1943-; U.S. Council, Int. Chamber of Commerce 1945-, Chair. 1962-64, Vice-Chair. U.S. Council 1962-64; mem. of Exec. Cttee. U.S. Council 1964; Pres. Boy Scouts of America 1946-51, Hon. Vice-Pres. 1951-; Dir. Nat. Educ. TV & Radio Center 1961-67, Atlantic Council of the U.S. France America Soc., Fédération des Alliances Françaises aux Etats-Unis, American Soc. of the French Legion of Honour; mem. Advisory Trust Bd., First Nat. City Bank 1968-71, Advisory Council, State Univ. of N.Y.; Trustee Emer. Inst. for Advanced Study, Princeton, N.J.; several hon. degrees; Order of Merit Bernardo O'Higgins (Chile), Grand Cross, Légion d'honneur. *Address:* Corning Glass Works, Corning, N.Y. 14830 (Office); 12 South Road, Corning, N.Y. 14830, U.S.A. (Home). *Telephone:* 607-962-1234.

HOUGHTON, Amory, Jr., M.B.A.; American executive; b. 7 Aug. 1926; s. of Amory Houghton (*q.v.*) and Laura DeKay Richardson; ed. Harvard Univ. Business School; served in U.S. Marine Corps 1945-46; joined Corning Glass Works 1951, Dir. 1955, Staff Vice-Pres. 1957, Pres. 1961-64, Chair. and Chief Exec. Officer 1964-; Chair. of Bd. and Dir. Corning Glass Works of Canada Ltd.; Dir., Dow Corning Corpn., Pittsburgh Corning Corpn., B.F. Goodrich Co., Corhart Refractories Co., New York Telephone Co., Corning Fibre Box Corpn.; Trustee Corning Glass Works Foundation, The Corning Museum of Glass, Episcopal Theological School (Cambridge, Mass.), Nat. Security Industrial Assen.; mem. Bd. Nat. Industrial Conf. *Address:* Corning Glass Works, Corning, N.Y. 14830 (Office); 33 East 3rd Street, Corning, N.Y. 14830, U.S.A. (Home).

HOUGHTON, Arthur Amory, Jr.; American executive; b. 12 Dec. 1906, Corning, N.Y.; s. of Arthur Amory and Mabel Hollister Houghton; m. Nina Rodale 1973; one s. three d. (by previous marriage); ed. St. Paul's School, Concord (N.H.) and Harvard Univ.; Corning Glass Works, Mfg. Dept. 1929, Treas. Dept. 1929-30, Asst. to Pres. 1930-32, Vice-Pres. 1935-42; Pres. Steuben Glass 1933-72, Chair. 1973-; Dir. Corning Glass Works; fmr. Dir. U.S. Steel Corpn., Past Dir. Nat. Book Cttee. Inc.; Vice-Pres. Corning Museum of Glass; Curator of Rare Books, Library of Congress 1940-42; Hon. Consultant in English Bibliography; Trustee and Chair. Emer. Cooper Union New York; Chair. and Pres. Wye Inst. Inc.; Past Chair. and Hon. Trustee, Parsons School of Design, New York, Philharmonic Symphony Soc. of New York, Inst. of Int. Educ.; fmr Vice-Chair. Lincoln Center for the Performing Arts, New York; Trustee Emer. Pierpont Morgan Library, Metropolitan Museum of Art, fmr. Pres. and Chair.; Hon. Trustee, New York Public Library; fmr. Trustee, Rockefeller Foundation, U.S. Trust Co; fmr. Dir. New York Life Insurance Co.; Dir. U.S. English-Speaking Union; mem. Council on Foreign Relations; service in U.S. Air Force (Lieut.-Col.) 1942-45; Sr. Fellow Royal Coll. of Art; Fellow Royal Soc. of Arts; Friedsam Industrial Art Medal 1953, Officier, Légion d'honneur, Commdr. de l'Ordre des Arts et des Lettres; Knight Most Venerable Order of the hospital of St. John of Jerusalem, Skowhegan School-Gertrude Vanderbilt Whitney Award; hon. degrees from 15 colls. and univs. *Address:* 715 Fifth Avenue, New York, N.Y. 10022 (Office); Wye Plantation, Queenstown, Md. 21658, U.S.A. (Home). *Telephone:* (301) 827-7163 (Office).

HOUGHTON OF SOWERBY, Baron (Life Peer), cr. 1974, of Sowerby, West Yorkshire; **(Arthur Leslie Noel) Douglas Houghton,** C.H., P.C.; British trade unionist and politician; b. 11 Aug. 1898; s. of John and Martha Houghton; m. Vera Travis 1939; ed. Derbyshire County Secondary School; Gen. Sec. Inland Revenue Staff Fed. 1922-60; mem. Gen. Council, TUC 1952-60; mem. Civil Service, Staff Whitley Council 1923-58, Chair. 1954-56; Alderman, London County Council 1947-49; M.P. 1949-74, Chair. Public Accounts Cttee. House of Commons 1963-64; Chancellor, Duchy of Lancaster 1964-66; Minister without Portfolio 1966-67; Chair. Parl. Labour Party 1967-74; Chair. Party Funds Cttee. 1975; Chair. Cttee. on Security of Cabinet Papers 1976; Labour. *Address:* 110 Marsham Court, London, S.W.1, England (Home). *Telephone:* 01-834 0602 (Home).

HOUGRON, Jean (Marcel); French writer; b. 1 July 1923; ed. Faculty of Law, Univ. of Paris; schoolmaster 1943-46; commercial employment in export-import firm, Saigon 1946-47; lorry driver 1947-49; translator in American Consulate 1950; news ed. Radio France Asie 1951; returned to France to write 1952; bookseller in Nice 1953-54; lived in Spain 1958-60; Grand Prix du Roman, Acad. Française 1953, Prix Populiste 1965. *Publications:* Tu récolteras la tempête 1950, Rage blanche 1951, Soleil au ventre 1952, Mort en fraude (film) 1953, Les portes de l'aventure 1954, Les Asiates 1954, Je reviendrai à Kandara (film) 1955, La terre du barbare 1958, Par qui le scandale 1960, Le signe du chien 1961, Histoire de Georges Guersant 1964, Les humiliés 1965, La gueule pleine de dents, Les portes de l'aventure 1970, L'homme de proie 1974. *Address:* c/o Editions Plon, 8 rue Garancière, 75006 Paris; 34 rue Greneta, 75002 Paris, France (Home).

HOUIN, Roger; French professor of law; b. 17 Aug. 1912, Jumeaux; s. of Georges Houin and Eugénie Achard; m. Gabrielle Kostanjevic 1936; two s. one d.; ed. Univ. de Paris à la Sorbonne and Ecole des Sciences politiques; Lecturer, Univ. of Lille 1939; Prof., Univ. of Rennes 1941-57, Dean of Faculty 1955-57; Sec.-Gen. Comm. for Reform of Civil Law 1945-65; Prof. Faculty of Law, Univ. of Paris 1957-, Inst. of Political Studies 1958-; Conseiller d'Etat 1968-72; mem. of numerous legal orgs. and legal expert on Cttees. of EEC; Founder-Dir. quarterly Revue de droit commercial 1948- Co-Dir., Founder quarterly Revue de droit européen 1965; Dir. Bibliothèque de droit commercial (26 vols); Dr. h.c. (Univs. of Ghent, Brussels and Geneva); Officier, Légion d'honneur and other decorations. *Publications:* Précis de droit commercial (2 vols.) 5th edn. 1974; Cours de droit commercial 6th edn. 1977, Les grands arrêts et la jurisprudence commerciale 2nd edn. 1976. *Address:* 6 rue Coëtlogon, 75006 Paris, France. *Telephone:* 222-49-61.

HOULE, Cyril O., PH.D.; American educationist; b. 26 March 1913, Sarasota, Fla.; s. of John Louis Houle and Annie Hescock Houle; m. Bettie Eckhardt Totten 1947; one s.; ed. Univ. of Florida and Univ. of Chicago. Dept. of Educ. Univ.of Chicago 1939-, Dean of Univ. Coll. 1944-52, Prof. of Educ. 1952-; Sr. Program Consultant, Kellogg Foundation 1976-; mem. U.S. Nat. Comm. for UNESCO 1959-64, Int. Cttee, for Advancement of Adult Educ. (UNESCO) 1961-63, Nat. Acad. of Educ.; Visiting Sr. Research Specialist, Oxford Univ. 1968; Hon. LL.D. (Syracuse, Florida), D.H.L. (Rutgers, De Paul, Roosevelt and N.Y.). *Publications:* Adult Education (with F. W. Reeves and T. Fansler), The Armed Services and Adult Education (with others), Libraries in Adult and Fundamental Education, The University, The Citizen and World Affairs (with C. A. Nelson), The Effective Board, The Inquiring Mind, Continuing Your Education, The Design of Education, The External Degree. *Leisure interests:* travel, reading. *Address:* Department of Education, University of Chicago, Chicago, Ill. 60637; 5510 Woodlawn Avenue, Chicago, Ill. 60637, U.S.A. (Home). *Telephone:* Hyde Park 3-8751 (Home).

HOUMANN, Borge Kruuse; Danish journalist; b. 26 March 1902, Fredericia; ed. Denmark and Derby Grammar School, England; sailor 1920; started writing poems and short stories 1923; econ. dir. of Riddersalen Theatre 1933; Man. Dir. of publishing firm Arbejderforlaget 1935; mem. of Danish Freedom Council (underground) 1943-45; mem. Danish Parl. 1945-46; mem. Danish Radioraadet (Danish Broadcasting Council) 1946-50; Chief Ed. of Communist daily Land og Folk 1945-54; Dir. publishing firm of Sirius 1957; Dr. Phil. h.c. (Copenhagen). *Publications:* Huset ved Havet 1923, translation of Whitman's Leaves of Grass 1927, Lystgas (a novel) 1932, Forlis (poems) 1934, Martin Andersen Nexø, Selected Speeches and Articles, Vols. 1-3 (Editor) 1954, Martin Andersen Nexø Bibliography (with notes) Vols. I-II, 1961, 1967, Martin Andersen Nexø: Letters (Editor and annotator) Vol. I 1969, Vol. II 1971, Vol. III 1972, Otto Gelsted: Tilbageblik på fremtiden Vols. I-II (Ed.), Otto Gelsted Bibliography 1978, and a number of books on Martin Andersen Nexø and many translations from English and German. *Address:* Aage Bergsvej 19, DK 8240 Risskov, Denmark. *Telephone:* (06) 179549.

HOUPHOUËT-BOIGNY, Félix; Ivory Coast politician; b. 18 Oct. 1905, Yamoussoukro; ed. School of Medicine, Dakar, Senegal;

Doctor, Medical Assistance Service 1925-40; Canton Chief 1940; Pres. Syndicat Agricole Africain 1944; mem. French Constituent Assembly 1945-46; mem. French Nat. Assembly 1946-59; successively Territorial Councillor for Korhogo, Pres. Territorial Assembly, Ivory Coast, Grand Conseiller for French West Africa; Minister attached to the Prime Minister's Office (France) 1956-57; Minister of Health (France) 1957-58; Minister of State (Pflimlin Cabinet) May 1958, (de Gaulle Cabinet) 1958-59, (Debré Cabinet) Jan.-May 1959; Pres. Assembly, Ivory Coast Repub. 1958-59, Pres. Council 1959-60; Pres. of the Republic Nov, 1960-, concurrently Minister of Foreign Affairs 1961, of Interior, Educ. and Agric. 1963; Pres. of Council of Ministers; Minister of Defence 1963-74; Minister-Counsellor to French Govt. 1959-60; Pres. Parti Démocratique de la Côte d'Ivoire; Dr. h.c. (Univs. of Aix-Marseille and René-Descartes) 1978. *Address:* Présidence de la République, Abidjan, Ivory Coast.

HOUSE, Lieut-Gen. Sir David George, G.C.B., C.B.E., M.C.; British army officer; b. 8 Aug. 1922; s. of A. G. House; m. Sheila Betty Darwin 1947; two d.; ed. Regent's Park School, London; war service in Italy and then various regimental appointments with the King's Royal Rifle Corps, 1st Bn. The Royal Green Jackets and staff appointments; Commanded 51st Gurkha Brigade in Borneo 1965-67; Chief, BRIXMS 1967-69; Deputy Mil. Sec. 1969-71; Chief of Staff, HQ British Army of the Rhine 1971-73; Dir. of Infantry 1973-75; Gen. Officer Commdg. Northern Ireland 1975-77; Col. Commdt. The Light Div.; Col. Commdt. Small Arms School Corps 1974-77; Gentleman Usher of the Black Rod, House of Lords 1978-. *Leisure interest:* music. *Address:* c/o Lloyds Bank Ltd., Cox and King's Branch, 6 Pall Mall, London, S.W.1, England.

HOUSEMAN, John; American producer, director, author and actor; b. (as Jacques Haussmann) 22 Sept. 1902, Bucharest, Romania; s. of Georges Haussmann and May Davies Haussmann; m. Joan Courtney 1950; two s.; ed. France and Clifton Coll., England; worked on cattle ranch and later as bank employee, Argentina 1920-22; in grain business London and U.S.A. 1922-30; Head of Negro Theatre Project and Project 891 1934-37; co-founder Mercury Theatre (with Orson Welles, (*q.v.*) 1937; Producer-Dir. Lobero Theatre 1941; Chief of Overseas Program Bureau, Office of War Information 1942-44; Artistic Dir. American Shakespeare Festival 1956-59, Theatre Group at Univ. of Calif., Los Angeles 1960-64; Producing Dir. A.P.A. Repertory Co. 1966-68; Head of Drama Div., Juilliard School at Lincoln Center 1968-76; Artistic Dir. City Center Acting Co. 1972-75, Acting Co. 1975-; Visiting Prof. of Performing Arts, Univ. of S. Calif. 1977; Nat. Arts Club Medal of Honor 1973, Acad. Award, Best Supporting Actor (in The Paper Chase) 1974, Nat. Book Award nomination for Run-Through. *Films produced include:* The Blue Dahlia 1945, They Live by Night 1946, Letter from an Unknown Woman 1947, The Bad and the Beautiful 1952, Julius Caesar 1953, Executive Suite 1954, The Cobweb 1955, Lust for Life 1956, All Fall Down 1961, Two Weeks in Another Town 1962, Voyage to America 1964, The World of the Dancer 1964, This Property is Condemned 1966; *operas directed include:* The Devil and Daniel Webster 1939, Otello 1963, Tosca 1965, The Mines of Sulphur 1968, Antigone 1970, The Losers 1971, Lord Byron 1972, Macbeth 1973; *plays directed include:* Four Saints in Three Acts 1934, Panic 1935, Valley Forge 1935, Hamlet 1936, Liberty Jones 1939, Lute Song 1947, King Lear 1950, Coriolanus 1953, Murder in the Cathedral, The Three Sisters, The Iceman Cometh, Six Characters in Search of an Author, Antigone, The Seagull, Pantagleize 1967-68, Chronicles of Hell 1968-69, Macbeth, Measure for Measure, The Country Girl 1971, Don Juan in Hell, Clarence Darrow; *acted in films:* Seven Days in May 1965, The Paper Chase 1974, Rollerball 1975, Three Days of the Condor 1975, St. Ives 1976, The Cheap Detective 1978; *co-author* Citizen Kane 1940, *co-adaptor* Jane Eyre 1941 (film scripts); *productions for TV include;* The Seven Lively Arts 1957, Playhouse 90 1958, 1959, episodes of The Great Adventure series, Three By Martha Graham (also narrator). *Publication:* Run-Through 1972. *Address:* 420 West 42nd Street, New York, N.Y. 10036, U.S.A.

HOUSIAUX, Albert, D.RER.POL.; Belgian journalist; b. 1914; ed. Athénée Royal, Ixelles, Brussels Free Univ.; joined staff of Le Peuple 1937; news bulletin editor I.N.R.; Editorial Sec. Socialisme; served in the army and captured during the Second World War; Inspector-Gen. Ministry of Imports 1945; Dir.-Gen. Le Peuple 1948-54, Political Dir. (later Ed.) 1954-69; mem. Bureau Belgian Socialist Party (with vote); Chevalier Ordre de Léopold, Ordre de la Couronne, Officer of the Order of Merit (Italy). *Address:* 201 Avenue Rommelaere, Jette-St.-Pierre, Brussels 9, Belgium.

HOUSTON, Clifford Granville, A.M., PH.D.; American educational psychologist; b. 5 March 1903; ed. Univs. of Colorado and Univs. of Columbia and Chicago; Prof. of Educ. and Psychology, State Jr. Coll., Grand Junction 1929-31, Pres. 1931-37; Dir. Extension Div. and Dean of Summer School, Univ. of Colo. 1937-42; Dean Extramural Activities, Univ. of Colo., Boulder 1946-47, Dean of Students and Dir. of Student Personnel and Prof. of Education 1947-57, Prof. of Educ. 1957-71; Pres. Bd. of Reps. 1951-52; Chair. Academic Council Western Personnel Inst. 1951-53; mem. Governor's Human Relations Comm. and Chair. of its Research Cttee. 1951-53; Ford Fund for the Advancement of Educ. 1951-53; mem. Nat. Advisory Council, Nat. Students' Asscn. 1953-58; mem. Nat. Educational Advisory Council, Nat. Assn. of Manufacturers 1954-57; mem. Consulting Cttee. in Management Training, U.S. Veterans Admin., Washington, D.C. 1957-60. *Address:* 3840 Armer Drive, Boulder, Colo. 80303, U.S.A.

HOUTHAKKER, Hendrik Samuel; American economist; b. 31 Dec. 1924, Amsterdam, Netherlands; s. of Bernard Houthakker and Marion Houthakker (née Lichtenstein); m. Anna-Teresa Tymieniecka 1955; two s. one d.; ed. Univ. of Amsterdam; Research Staff mem., Dept. of Applied Econs., Univ. of Cambridge 1949-51; on Research Staff, Cowles Comm. for Research in Econs., Univ. of Chicago 1952-53; Prof. of Econs., Stanford Univ. 1954-60, Harvard Univ. 1960-; Sr. Staff Economist, Council of Econ. Advisers 1967-68, mem. 1969-71; Vice-Pres. American Econ. Assn. 1972; Fellow, Econometric Soc. (Past Pres. and Council mem.), American Statistical Assn., Nat. Comm. on Supplies and Shortages 1975-77; mem. Nat Acad. of Sciences; Corresp. mem. Royal Netherlands Acad. of Sciences; Dr. h.c. (Amsterdam) 1972, (Fribourg) 1974; John Bates Clark Medal of American Econ. Assn. 1963. *Publications:* The Analysis of Family Budgets (with S. J. Prais) 1955, Consumer Demand in the United States (with L. D. Taylor) 1966, Economic Policy for the Farm Sector 1967, The World Price of Oil, 1976; also articles. *Leisure interests:* farming, skiing. *Address:* Littauer Center, Harvard University, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-2111.

HOUTTE, Baron Jean van, D. EN D.; Belgian emeritus university professor and politician; b. 17 March 1907, Ghent; s. of Hubert van Houtte; m. Cécile de Stella 1932; one s. three d.; ed. Univ. of Ghent; Prof. Univ. of Liège 1931, Univ. of Ghent 1937; Head of Secretariat, Ministry of the Interior 1944-45; co-opted Senator 1949-68; Minister of Finance 1950-52; Prime Minister 1952-54; Minister of Finance 1958-61; Minister of State 1966; Hon. Pres. Sabena Airlines; various Belgian and foreign decorations. *Publications:* Traité des sociétés de personnes à responsabilité limitée 1935, 1950, 1962, La responsabilité civile dans les transports aériens 1940, La réparation des dommages de guerre aux biens privés 1948, Formulierboek voor notarissen 1947, Principes du droit fiscal belge 1958, 1966. *Address:* 54 Boulevard St. Michel, Brussels, Belgium. *Telephone:* 733-62-94.

HOVDE, Frederick Lawson, B.CH.E., B.A., M.A.; American educational administrator; b. 7 Feb. 1908; s. of Martin R. and Julia (née Lawson) Hovde; m. Priscilla L. Boyd 1933; one s. two d.; ed. Minnesota and Oxford Univs.; Asst. Dir., Gen. Coll., Univ. of Minn. 1932-36; Asst. to Pres. Univ. of Rochester, N.Y. 1936-41; Head, London Mission, Office of Scientific Research and Devt. 1941-42; Exec. Asst. to Chair Nat. Defense Research Cttee., OSRD 1942-43; Chief of Rocket Ordnance Research Div., NDRC, OSRD 1943-46; Pres. Purdue Univ. 1946-71, Pres. Emer. 1971-; Chair. Cttee. on Guided Missiles, Research and Devt. Bd. 1947-49; Chair. Bldg. Research Adv. Bd. Nat. Research Council 1950-52; mem. Army Science Advisory Panel, Dept. of Army 1952-60; U.S. Mil. Acad. Bd. of Visitors 1965-67; Hon. D.Sc., Hon. D.Eng., Hon. D.H.L., Hon. D.C.L. (Oxon.), Hon. LL.D.; Rhodes Scholarship 1929-32; King's Medal for Service in the Cause of Freedom G.B. 1948, President's Medal for Merit (U.S.A.) 1948, Brazilian Order of Southern Cross 1968. *Address:* Purdue University, Lafayette, Indiana; 1701 Redwood Lane, Lafayette, Indiana 47905, U.S.A. (Home). *Telephone:* 317-447-0808.

HOVEYDA, Fereydoun, LL.D.; Iranian diplomatist; b. 21 Sept. 1924, Damascus; ed. Univ. of Paris; various positions, Imperial Iranian Embassy, Paris 1946-51; Programme Specialist, Mass Communications Dept., UNESCO 1952-64; Under-Sec. of State for Int. and Econ. Affairs, Ministry of Foreign Affairs 1965-71; Perm. Rep. to UN 1971-79; del to various int. confs. including UN Gen. Assembly 1948, 1951, 1965, UNESCO Confs. 1966, 1968, 1970 and ECOSOC sessions 1966-69; Léopold Sédar Senghor Literary Prize 1973. *Publications:* studies: Le plan septennal iranien 1948, La nationalisation du pétrole en Iran 1951, Histoire du roman policier 1968; novels: Les quarantaines 1962, L'aérogare 1965, Dans une terre étrange 1968, Le losange 1969, Les neiges du Sinai 1973.

HOVING, Thomas, PH.D., M.F.A.; American museum director; b. 15 Jan. 1931; s. of Walter Hoving and Mary Osgood Field; m. Nancy Bell 1953; one d.; ed. The Buckley School, New York, Eaglebrook School, Deerfield, Mass., Exeter Acad., Exeter N.H., The Hotchkiss

School, Lakeville, Conn., and Princeton Univ.; Curatorial Asst., Medieval Art and The Cloisters, Metropolitan Museum of Art 1959-60, Asst. Curator 1960-63, Assoc. Curator 1963-65, Curator of Medieval Art and The Cloisters 1965; Commr. of Parks, New York 1966; Admin. of Recreation and Cultural Affairs, New York 1967; Dir., The Metropolitan Museum of Art, 1966-77; Pres. Hoving Assocs. Inc.; Bd. of Dirs. IBM World Trade Corpn., Americas/Far East; Fellowship, Nat. Council of Humanities 1955, Kienbusch and Haring Fellowship 1957; Hon. LL.D. (Pratt Inst.) 1967, Hon. D.F.A. (New York) 1968, Hon. D. Hum. (Princeton) 1968, Hon. D. Litt. (Middlebury Coll.) 1968; Distinguished Citizen's Award, Citizen's Budget Cttee. 1967, Creating Leadership in Educ. Award, New York Univ. 1975, Woodrow Wilson award, Princeton 1975. *Publications:* Guide to the Cloisters 1962, Metropolitan Museum of Art Calendar 1966, Tutankhamun, The Untold Story 1978, Two worlds of Andrew Wyeth 1978. *Leisure interests:* sailing, skiing, bicycling. *Address:* 150 East 73rd Street, New York City, N.Y. 10021, U.S.A.

HOWALD, Prof. Oskar, DR. SC. TECH., DIPL. ING. AGR.; Swiss agricultural economist and professor; b. 2 March 1897, Zurich; m. Louise Schmid 1924; two s. two d.; ed. Fed. Technical High School, Zurich; Deputy Dir. Swiss Farmers' Union 1929-39, Dir. 1939-49; scientific consultant, Tutor in Agricultural Econs., Fed. Technical High School 1928-35; Prof. of Farm Man., Farm Accountancy and Agrarian Policy 1936-67; Vice-Pres. European Confederation of Agric. (CEA) 1949-59; Pres. Swiss Home Works Corpn. 1949-, Agricultural Information Services 1944-69; Dr. h.c. Hochschule Vienna 1957, Stuttgart 1962; Ed. Agrarpolitische Revue 1944-69, Wirz's Landwirtschaftlicher Taschenkalender 1946-, etc. *Publications include:* Die Dreifelderwirtschaft im Kanton Aargau 1926, Besteuerung des ldw. Besitzes u. Einkommens u. der ldw. Organisationen 27, Die Organisation der Schlachtviehverwertung im Ausland und in der Schweiz 1929, Überschuldung und Entschuldung der Schweiz. Landswirtschaft 1934, Einführung in die Agrarpolitik 1946, Fünfzig Jahre Schweizerischer Bauernverband 1947, ABC für Agrarpolitik und Agrarwirtschaft 1951, 1965, Schriftenfolge über Landarbeitstechnik in der Schweiz (11 vols.) 1947-67, Entwicklung und Stand der Forschung auf dem Gebiete der Wirtschaftslehre des Landbaus 1951, Zukunftsaussichten des bäuerlichen Familienbetriebes 1955, Die Kleinbauernfrage in Europa 1955, Bewertung, Buchhaltung und Kalkulation in der Landwirtschaft 1957, Strukturwandel in der Landwirtschaft 1962, Bauer und Landwirt in der heutigen Volkswirtschaft 1962, Schweizerische Landwirtschaft und Schweizer Bauerntum (Monograph) 1963, Betrachtungen zur Lehre vom büerlichen Familienbetrieb 1967, Landwirtschaftliche Betriebslehre für bäuerliche Verhältnisse. 18e, 1970, etc. *Leisure interests:* simplification of rural work, rural sociology, viticulture. *Address:* Stäblistrasse 19, 5200 Brugg, Switzerland. *Telephone:* 056-41-1955.

HOWARD, Alan Mackenzie; British actor; b. 5 Aug. 1937, London; s. of Arthur John and Jean (Compton Mackenzie) Howard; m. 1st Stephanie Hinchcliffe Davies 1965; m. 2nd Sally Beauman 1976; one s.; ed. Ardingley Coll. National Service with R.A.F. in Germany 1956-58; Stage Hand, Asst. Stage Man., Actor, Belgrade Theatre Coventry 1958-60; London West End debut, Duke of York's Theatre in Roots 1959; played in London at Royal Court, Arts, Mermaid, Strand, Phoenix theatres, also out of London 1960-65; with Royal Shakespeare Co. 1966-, Assoc. Artist 1967-; Plays and Players London Theatre Critics most promising Actor Award 1969, Best Actor Award 1977; Soc. of West End Theatre Managers Best Actor in a Revival Award 1976. Appeared in RSC productions: Twelfth Night, Revenger's Tragedy, As You Like It, The Relapse, King Lear, Troilus and Cressida, Much Ado About Nothing, Bartholomew Fair, Dr. Faustus, Hamlet, Midsummer Night's Dream, Enemies, Man of Mode, The Balcony, The Bewitched, Henry IV pts 1 and 2, Henry V, Wild Oats, Henry VI parts 1, 2 and 3, Coriolanus, Anthony and Cleopatra; also films. *Leisure interests:* reading, music. *Address:* c/o Derek Glynne Ltd., 25 Haymarket, London, SW1Y 4EN, England. *Telephone:* 01-839 2977.

HOWARD, Anthony Michell, M.A.; British journalist; b. 12 Feb. 1934, London; s. of Canon W. G. Howard and Janet Rymer; m. Carol Anne Gaynor 1965; ed. Westminster School and Christ Church, Oxford; on editorial staff Manchester Guardian 1959-61; Political Corresp. New Statesman 1961-64; Whitehall Corresp. Sunday Times 1965; Washington Corresp. Observer 1966-69; Asst. Ed. New Statesman 1970-72, Ed. 1972-78; Ed. The Listener 1979–; Harkness Fellow, U.S.A. 1960. *Publications:* The Making of the Prime Minister (with Richard West) 1965, edited The Crossman Diaries 1964-70, 1979. *Address:* 17 Addison Avenue, London, W.11, England. *Telephone:* 01-603 3749.

HOWARD, Harry Nicholas, A.B., M.A., PH.D.; American historian; b. 19 Feb. 1902, Excelsior Springs, Mo.; s. of Alpheus and Lois A. (Foster) Howard; m. Virginia Faye Brubaker 1932; two s.; ed. Univs. of Missouri and California; Gregory Fellow in History, Univ. of Mo. 1926-27; Research Asst. in Modern European History, Univ. of Calif. 1928-29; Asst. Prof. History, Univ. of Okla. 1929-30, Miami Univ. 1930-37, Assoc. Prof. 1937-40, Prof. 1940-42; Lecturer Contemporary Problems, Univ. of Cincinnati 1937-42; Head, East European Unit Div. of Territorial Studies, Dept. of State 1942-44; mem. Div. Int. Org. Aff. 1944-46; Tech. Expert, U.S. Del., UNCIO 1945; Adviser, Special Interrogation Comm., Germany 1945; Chief N.E. Branch, Div. of Research for N.E. and Africa 1946-47; Adviser, Div. of Greek, Turkish, and Iranian Affairs 1947-49; Adviser U.S. Del., UN Gen. Assembly 1947-50; UN Adviser, Dept. of State, Bureau of Near East, S. Asian and African Affairs 1949-56; Acting U.S. Rep. Advisory Comm. UNRWA, Beirut 1956-61; Special Asst. to Dir. of UNRWA 1962-63; Adviser U.S. Del. UN Balkan Comm. 1947-50; Prof. of Middle East Studies, School of Int. Service, American Univ., Washington, D.C. 1963-68, Adjunct Prof. 1968-; Lecturer U.S. Army War Coll. 1970-72; Chair. Middle East Program, Foreign Service Inst., Dept. of State 1966, 1971-73; Faculty Adviser Foreign Service Inst. 1967-68; Reserve Consultant, Dept. of State 1967-; Assoc. Ed. Middle East Journal 1963-; Chief Consultant Middle East and North Africa, Cincinnati World, Affairs Council 1968-69; mem. Middle East Inst., Board of Govs. 1963-; mem. American Historical Assn. Dacor, Middle East Studies Assn. *Publications:* The Partition of Turkey, A Diplomatic History 1913-1923 1931, Military Government in the Panama Canal Zone 1931 (with Prof. R. J. Kerner), The Balkan Conferences and the Balkan Entente 1930-35, A Study in the Recent History of the Balkan and Near Eastern People 1936, The Problem of the Turkish Straits 1947, The United Nations and the Problem of Greece 1947, The General Assembly and the Problem of Greece 1948, Yugoslavia (co-author) 1949, Soviet Power and Policy (co-author) 1955, The King-Crane Commission 1963. *Leisure interests:* swimming, walking. *Address:* 6508 Greentree Road, Bradley Hills Grove, Bethesda, Md. 20034, U.S.A. (Home). *Telephone:* 365-3093 (Home).

HOWARD, Jack Rohe; American newspaper and broadcasting executive; b. 31 Aug. 1910, New York; m. 1st Barbara Balfe 1934 (died 1962); one s. one d.; m. 2nd Eleanor Sallee Harris 1964; ed. Yale Univ; journalist, Tokyo, Shanghai, Indianapolis, Washington 1932-35; with radio cos., Knoxville, Washington and New York (now Scripps-Howard Broadcasting Co.) 1936-39; Asst. Exec. Ed. Scripps-Howard Newspapers 1939-42, 1945-48, Gen. Ed. Man. 1948-75; U.S. Navy 1942-45; Pres. E. W. Scripps Co. 1953-75, Chair. Exec. Cttee. 1976-; Pres., Dir. and mem. Exec. Cttee. Scripps-Howard Broadcasting Co.; Dir. Trans-World Airlines. *Address:* 200 Park Avenue, New York, N.Y. 10017, U.S.A.

HOWARD, Trevor Wallace; British actor; b. 29 Sept. 1916; m. Helen Cherry 1944; ed. Clifton Coll., Bristol; service in 1st Airborne Division 1940-43; plays include various Shakespeare plays at Stratford-upon-Avon and The Old Vic, London: French Without Tears, The Recruiting Officer 1944, Anna Christie 1944, The Devil's General 1953, The Cherry Orchard 1954, Two Stars for Comfort 1962, The Father 1964, Table Number Seven, The Waltz of the Toreadors 1974; *films include:* Brief Encounter 1945, The Third Man 1949, An Outcast of the Islands 1951, The Heart of the Matter 1953, Les amants du Tage 1955, Cockleshell Heroes 1955, The Key 1958, Roots of Heaven 1958, Sons and Lovers 1960, Mutiny on the Bounty 1962, Von Ryan's Express 1966, The Charge of the Light Brigade 1968, Ryan's Daughter 1970, Mary Queen of Scots 1972, The Offence 1973, A Doll's House 1973, 11 Harrowhouse 1974, The Visitor, Hennessy 1975, Conduct Unbecoming 1976, Count of Monte Cristo 1976, Eliza Fraser 1977, The Last Remake of Beau Geste 1977; *TV plays include:* Hedda Gabler 1962, The Invincible Mr. Disraeli (Acad. Award) 1963, Napoleon at St. Helena 1966. *Address:* Rowley Green, Arkley, Herts., England.

HOWE, Harold, II; American educator; b. 1918, Hartford, Conn.; s. of Margaret Armstrong and Arthur Howe; m. Priscilla Foster Lamb 1940; one s. two d.; ed. Yale and Columbia Univs., Univ. of Cincinnati, and Harvard Univ; history teacher, Darrow School, New Lebanon, New York 1940-42; Lt. U.S. Naval Reserve 1942-45; history teacher, Phillips Acad., Andover, Mass. 1947-50; Prin., Andover High School and Junior High School 1950-53; Prin., Walnut Hills High School, Cincinnati, Ohio 1953-57; Prin., Newton High School, Newton, Mass. 1957-60; Supt. of Schools, Scarsdale, N.Y. 1960-64; Exec. Dir. Learning Inst. of N. Carolina, Chapel Hill, N. C. 1964-65; U.S. Commr. of Educ. 1965-68; Adviser on Educ., Ford Foundation, India 1968-; Vice-Pres. for Educ., Ford Foundation 1971-; fmr. Trustee, Vassar Coll., Yale Univ.; Trustee and Vice-Chair. Coll. Entrance Examination Bd. 1963-65; Hon. LL.D. (Univ. of Notre Dame, Shaw Univ., N. Carolina, Princeton Univ.,

Adelphi Univ., N.Y., St. Louis Univ., Missouri). *Leisure interest:* fishing. *Address:* Ford Foundation, 320 East 43rd Street, New York, N.Y. 10017, U.S.A. *Telephone:* 212-573-4730.

HOWE, Rt. Hon. Sir (Richard Edward) Geoffrey, Kt., P.C., Q.C., M.P.; British politician; b. 20 Dec. 1926, Port Talbot, Glam.; s. of late B. Edward Howe and of Mrs. E. F. Howe, J.P.; m. Elspeth R. M. Shand 1953; one s. two d.; ed. Winchester Coll. and Trinity Hall, Cambridge; called to the Bar, Middle Temple 1952, Bencher 1969; Deputy Chair. Glamorgan Quarter Sessions 1966-70; M.P. for Bebington 1964-66, for Reigate 1970-74, for East Surrey 1974-; Solicitor-Gen. 1970-72; Minister for Trade and Consumer Affairs 1972-74; Opposition Spokesman for Social Services 1974-75, for Treasury and Econ. Affairs 1975-79; Chancellor of the Exchequer 1979-; fmr. Pres. British Overseas Trade Bd.; Dir. Sun Alliance and London Insurance Group 1974-79; fmr. Dir. EMI Ltd., AGB Research Ltd.; Conservative. *Leisure interests:* cinephotography, gardening. *Address:* 11 Downing Street, London, S.W.1, England.

HOWELL, Rt. Hon. David Arthur Russell, P.C., B.A., M.P.; British lawyer and politician; b. 18 Jan. 1936; s. of Col. A. Howell and Beryl Howell; m. Davina Wallace 1967, one s. one d.; ed. Eton Coll., King's Coll., Cambridge; Lieut. Coldstream Guards 1954-56; Econ. Section, H.M. Treasury 1959, resgnd. 1960; Leader-writer The Daily Telegraph 1960; Chair. Bow Group 1961-62; fmr. ed. Crossbow; M.P. for Guildford 1966-; ■ Lord Commr. of Treasury 1970-71; with Civil Defence Dept. 1970-72; Parl. Under-Sec. Dept. of Employment 1971-72; Minister of State, Northern Ireland Office 1972-74, Dept. of Energy 1974; Sec. of State for Energy May 1979–; fmr. Joint Hon. Sec. U.K. Council of European Movt.; fmr. Dir. of Conservative Political Centre (CPC). *Publications:* Principle in Practice (co-author) 1960, The Conservative Opportunity 1965. *Leisure interest:* reading. *Address:* House of Commons, Westminster, London, S.W.1, England.

HOWELL, Francis Clark, PH.D.; American professor of anthropology; b. 27 Nov. 1925, Kansas City, Mo.; s. of E. Ray and Myrtle M. Howell; m. Betty Ann Tomsen 1955; one s. one d.; ed. Univ. of Chicago; Instructor in Anatomy, Washington Univ. 1953-55; Asst. Prof. of Anthropology, Univ. of Chicago 1955-59, Assoc. Prof. of Anthropology 1959-62, Prof. of Anthropology 1962-70; Prof. of Anthropology, Univ. of Calif., Berkeley 1970-; mem. Nat. Acad. of Sciences, American Philosophical Soc.; Fellow American Acad. of Arts and Sciences; Trustee Fellow, Calif. Acad. of Science. *Publications:* African Ecology and Early Man (ed) 1963, Early Man 1965, Earliest man and environments in the Rudolf Basin (ed.) 1975; numerous papers on anthropology in professional journals. *Address:* Department of Anthropology, University of California, Berkeley, Calif. 94720; 1994 San Antonio, Berkeley, Calif. 94707, U.S.A. (Home). *Telephone:* 415-642-1393 (Office); 415-524-6243 (Home).

HOWELL, John Owen, Jr.; American business executive; b. 7 Feb. 1925, Nashville, Tenn.; s. of John Owen and Margaret Lee (née Bowden) Howell; m. Margaret S. Stephens 1946; one s. two d.; ed. Middle Tennessee State Coll; joined GENESCO Inc. 1947; Pres. Flagg Bros. Div. 1958; Pres. Holiday-Wise Div. 1961; Dir., mem. Exec. Cttee., mem. Finance Cttee. and Bd. of Govs. GENESCO Inc., Exec. Vice-Pres. 1968-69, Pres. 1969-73. *Leisure interests:* golf, hunting, reading, sports. *Address:* 4006 Brush Hill Road, Nashville, Tenn. 37216, U.S.A.

HOWELLS, Anne Elizabeth; British opera and concert singer; b. 12 Jan. 1941, Southport, Lancs.; d. of Trevor and Mona Howells; m. Ryland Davies (*q.v.*) 1966; ed. Sale County Grammar School, Royal Manchester Coll. of Music; Three seasons in Chorus with Glyndebourne Festival Opera 1964-66, took leading role at short notice in L'Ormindo (Cavalli) 1967, subsequent roles include Dorabella in Così fan tutte, Cathleen in world premiere Rising of the Moon (Nicholas Maw), Composer in Ariadne, Diana in Calisto; with Royal Opera House, Covent Garden 1969-71, appearing as Lena in world premiere of Victory (Richard Rodney Bennett), Rosina in The Barber of Seville, Cherubino in The Marriage of Figaro; Guest Artist with Royal Opera House 1973-; has also appeared with Welsh Nat. Opera, Scottish Opera, Chicago Opera, Metropolitan Opera, New York 1975, Lyons Opera, Marseilles Opera, Nantes Opera, Netherlands Opera, Geneva Opera 1972-73, and at La Scala, and Salzburg Festival 1976; Fellow Royal Manchester Coll. of Music. *Leisure interests:* cinema, reading. *Address:* Milestone, Broom Close, Esher, Surrey, England.

HOWELLS, Herbert Norman, C.H., C.B.E., D.MUS. (OXON.), F.R.C.O., F.R.C.M.; British composer; b. 17 Oct. 1892, Lydney, Glos.; s. of Oliver Howells and Elizabeth Burgham; m. Dorothy Eveline Goozee 1920; one s. (deceased), one d.; ed. Royal Coll. of Music; Prof. Royal Coll. of Music; Dir. of Music, St. Paul's Girls' School 1936-62; first John Collard Fellow 1931, now John Collard Life Fellow; King Edward Prof. of Music, Univ. of London 1954-64, Pres. Royal Coll. of Organists 1959; Fellow Royal Coll. of Music; Pres. Incorporated Soc. of Musicians 1952; Pres. of Mediaeval and Plainsong Soc. 1958; Master of Worshipful Company of Musicians 1959; Fellow Royal School of Church Music 1963; Hon. Fellow, St. John's Coll., Cambridge 1966, Trinity Coll. of Music, London; Hon. mem. Royal Acad. of Music. *Works include:* Sir Patrick Spens (for chorus and orchestra), Requiem (for unaccompanied choir and soloists), Sine Nomine, Procession, Puck's Minuet (all for orchestra), Pageantry (suite for brass band), Hymnus Paradisi (for soprano and tenor solo, chorus and orchestra), Missa Sabrinensis (for four soloists, chorus and orchestra) 1954, piano concerto, 'cello concerto, clarinet quintet, and many other chamber music works, songs, organ works; recent works include Concerto for strings, Howells' Clavichord, and a new series of church works, Music for a Prince (for orchestra), A Kent Yeoman's Wooing Song (chorus and orchestra), An English Mass, Missa "Collegium Regale" 1956, Missa Aedes Christi 1957, Three Figures (brass band) 1960, A Sequence for St. Michael (chorus, strings and organ) 1961, Stabat Mater (tenor solo, chorus and orchestra) 1963, The Coventry Mass 1968, Partita for Organ 1972 (written for the Rt. Hon. Edward Heath, *q.v.*). *Leisure interests:* history and medieval literature. *Address:* Royal College of Music, London S.W.7.; 3 Beverley Close, Barnes, London S.W.13, England. *Telephone:* 01-876 5119.

HOWELLS, William White, D.SC., PH.D.; American anthropologist; b. 27 Nov. 1908, New York; s. of John Mead Howells and Abby MacDougall White; m. Muriel Gurdon Seabury 1929; one s. one d.; ed. St. Paul's School, Concord, N.H. and Harvard Univ; Asst. Prof. to Prof., Univ. of Wis. 1939-54; Ed. American Journal of Physical Anthropology 1949-54; Prof. of Anthropology, Harvard Univ. 1954-74, Emeritus 1974-; Curator of Somatology, Peabody Museum 1955-75, Honorary Curator 1975-; Pres. American Anthropological Assn. 1951; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Corresp. mem. Austrian Acad. of Sciences, Anthropological Socs. of Paris and Vienna, Geographical Soc. of Lisbon; Viking Fund Medal in Physical Anthropology 1955. *Publications:* Mankind So Far 1944, The Heathens 1948, Back of History (British edn. Man in the Beginning) 1954, Mankind in the Making 1959, Ideas on Human Revolution (ed.) 1962, The Pacific Islanders 1973, Cranial Variation in Man 1973, Evolution of the Genus Homo 1973. *Address:* Peabody Museum, Harvard, Cambridge, Mass. 02138; Kittery Point, Maine 03905, U.S.A. *Telephone:* 617-495-2244 (Mass.); 207-439-1302 (Maine).

HOWMAN, John Hartley; Rhodesian lawyer and politician; b. 11 Aug. 1918, Selukwe; m. Moira W. Maidman 1946; three d.; ed. Plumtree School, Bulawayo; Partner, Coghlan, Welsh & Guest (law firm); M.P. 1962-74; Minister of Internal Affairs, Local Govt. and African Educ. 1962-64, of Information, Immigration and Tourism 1965-68, of Foreign Affairs, Defence and Public Service 1968-74; Grand Officer of the Legion of Merit; Independence Decoration. *Address:* c/o Messrs. Coghlan, Welsh & Guest, P.O. Box 53, Salisbury, Zimbabwe Rhodesia.

HOXHA, Enver; Albanian politician; b. 16 Oct. 1908; ed. Gjirokastra and Korça (Albania) and Faculty of Natural Sciences, Montpellier, France; teacher, Tirana and Korça 1936-39; founder and leader, CP of Albania Nov. 1941, Sec.-Gen. 1943-48; led nat. liberation struggle 1939-44, achieved nat. independence 1944; Prime Minister 1944-54; Gen. Commdr. Albanian Armed Forces 1944-; Minister of Foreign Affairs 1946-53; Sec.-Gen. Party of Labour of Albania 1948-54, First Sec. Cen. Cttee. 1954-; Chair. Gen. Council Democratic Front; mem. Presidium People's Assembly of Albania; Hero of the People (twice); Hero of Socialist Labour, Order of Suvorov (First Class). *Address:* Partija e Punës, Tirana, Albania.

HOYLE, Sir Fred, Kt., M.A., F.R.S.; British astronomer and mathematician; b. 24 June 1915, Gilstead, Bingley, Yorks.; s. of Ben and Mabel (née Pickard) Hoyle; m. Barbara Clark 1939; one s. one d.; ed. Bingley Grammar School and Emmanuel Coll. and St. John's Coll., Cambridge; Fellow, St. John's Coll. 1939-72, Hon. Fellow 1973-; Univ. Lecturer in Mathematics, Cambridge 1945-58; Staff mem. Mount Wilson and Palomar Observatories, Calif., U.S.A. 1956-62; Plumian Prof. of Astronomy and Experimental Philosophy, Cambridge Univ. 1958-72, Dir. Inst. of Theoretical Astronomy 1966-72; Visiting Prof. of Astrophysics at Calif. Inst. of Technology 1958-; Hon. Prof. of Physics and Astronomy, Manchester Univ. 1973-; Visiting Prof. at Large, Cornell Univ. 1973-; Hon. research Prof. Cardiff Univ. 1975; Prof. of Astronomy Royal Institution 1969-72; Hon. mem. American Acad. of Arts and Sciences 1964; Foreign Assoc. Nat. Acad. of Sciences 1969; Vice-Pres. Royal Soc. 1970-; Pres. Royal Astronomical Soc. 1971-73; Mayhew Prizeman 1936, Smith's Prizeman 1938, Goldsmith Exhibitioner 1938, Sr. Exhibitioner Royal Comm. of 1851 1938, Kalinga Prize 1968,

Gold Medal, Royal Astronomical Soc. 1968, Bruce Medal, Astronomical Soc. of the Pacific 1970, Royal Medal, Royal Soc. 1974. *Publications:* Recent Research in Solar Physics 1949, Nature of the Universe 1950, Decade of Decision 1953, Frontiers of Astronomy 1955, The Black Cloud (novel) 1957, Ossian's Ride 1958, A for Andromeda (television series with John Elliot) 1962, Astronomy 1962, Fifth Planet (with Geoffrey Hoyle) 1963, Of Men and Galaxies 1964, Galaxies, Nuclei and Quasars 1965, October First is too late 1966, Man in the Universe 1966, Rockets in Ursa Major (with Geoffrey Hoyle) 1969, Seven Steps to the Sun (with Geoffrey Hoyle) 1970, The Molecule Men (with Geoffrey Hoyle) 1971, From Stonehenge to Modern Cosmology 1972, The Inferno (with Geoffrey Hoyle) 1972, Nicolaus Copernicus 1973, Into Deepest Space (with Geoffrey Hoyle) 1974, Action at a Distance in Physics and Cosmology 1974, Highlights in Astronomy (U.S.)/Astronomy Today (U.K.) 1975, Astronomy and Cosmology 1975, Ten Faces of the Universe 1977, On Stonehenge 1977, The Incandescent Ones (with Geoffrey Hoyle) 1977, Energy or Extinction: the case for Nuclear Energy 1977, Lifecloud (with N.C. Wickramasinghe) 1978, The Westminster Disaster (novel, with Geoffrey Hoyle) 1978, Diseases from Space (with N.C. Wickramasinghe) 1979. *Leisure interests:* music, mountaineering. *Address:* The Royal Society, 6 Carlton House Terrace, London, SW1Y 5AG, England.

HRABAL, Bohumil; Czechoslovak writer; b. 28 March 1914, Brno; ed. Charles Univ., Prague; lawyer's clerk, railway worker, insurance agent, travelling salesman, foundry worker, paper salvage worker, stage hand and stage extra 1939-62; professional writer 1962-; Klement Gottwald State Prize 1968. *Publications:* short stories: Perlička na dně (Pearl at the Bottom, some stories filmed) 1963, Pábitelé 1964, Inzerát na dům, ve kterém už nechci bydlet (An Ad. for a House in Which I Don't Want to Live Any More) 1965, Automat svět (selected stories, some filmed) 1966; short novels: Taneční hodiny pro starší a pokročilé (Dancing Lessons for Adults and Advanced) 1964, Ostře sledované vlaky (Closely Observed Trains, film 1966) 1965, Morytáty a legendy (These Premises are in the Joint Care of Citizens) 1968, Postřižiny 1976, Slavnosti sněženek 1978. *Address:* Na Hrázi 24, Prague 8-Liben, Czechoslovakia.

HŘEBÍK, Jaromir; Czechoslovak broadcasting official; b. 20 Sept. 1921, Prague; ed. School of Political Studies, Prague; Corresp. Práce, Moscow 1948-53; Deputy Chair. Czechoslovak Cttee. for Radio and TV 1953-58; Gen. Dir. Czechoslovak Radio 1958-59; Sec. Gen. Int. Radio and TV Org. (OIRT) 1959-. *Address:* OIRT, 151 13 Prague, 5 U Mrázovky 15, Czechoslovakia.

HRUŠKOVIČ, Miloslav; Czechoslovak engineer and politician; b. 25 Jan. 1925, Pukanec; ed. Faculty of Electrical Engineering, Slovak Tech. Univ., Bratislava. Deputy Dir. "Slovak Nat. Rising" Works, Žiar nad Hronom 1953-62; Dir. Research Inst. of Welding, Bratislava 1962-68; Minister of Tech. 1968; Minister, Chair. of Cttee. for Technological and Investment Devt., Fed. Govt. of C.S.S.R. 1969-70; Deputy Prime Minister 1969-70; mem. Cen. Cttee. of CP of Slovakia 1955-58, 1962-68, 1969-71, 1972-; Alt. mem. Cen. Cttee. CP of Czechoslovakia 1958-62; Alt. mem. Presidium, Cen. Cttee. of CP of Slovakia 1962-68; Deputy, Slovak Nat. Council 1964-71; mem. Presidium of Cen. Cttee., CP of Slovakia 1968, 1972-, Sec., mem. Secr. 1972-, Chair. Econ. Comm. of Cen. Cttee. 1972-; mem. Econ. Council 1968-70; mem. Cen. Cttee. CP of Czechoslovakia 1970-, Sec., mem. Secr. 1970-72, Chair. Econ. Comm. 1970-71, Alt. mem. Presidium 1971-, Chair. Scientific Technical Devt. Comm. 1971-76; Deputy to House of Nations, Fed. Assembly 1970-71, Deputy to House of the People 1971-; mem. Technical Cttee., Int. Inst. of Welding 1964-70; Order of Victorious February 1973, Order of the Repub. 1975, and several other awards. *Publications include:* Method of Automatic Regulation of the Working Stress of Aluminium Electrolysers 1959 (patented 1959). *Address:* Central Committee of the Communist Party of Czechoslovakia, nábř. Ludvíka Svobody 12, Prague, Czechoslovakia.

HRYNIEWIECKI, Jerzy; Polish architect; b. 21 April 1908, Dorpat (Tartu); s. of Bolesław and Janina Koźniewska; m. Alina Stanisławska; ed. Warsaw Polytechnic; Sr. Asst. Warsaw Polytechnic 1938-39; P.O.W. 1939-45; Deputy Prof., Warsaw Polytechnic 1945, Prof. 1959-, Dir. Inst. of Architectural Designs until 1975; Head of Section, Warsaw Reconstruction Bureau 1945; Prof. Szczecin Higher School of Eng. 1948; fmr. Pres. Polish Assn. of Architects; Chair. Industrial Projects Designing 1965-; Vice-Chair. Cttee. of Architecture and Town Planning, Polish Acad. of Sciences; Hon. mem. R.I.B.A., A.I.A., Soc. of Architects of Brazil and Mexico; numerous decorations and prizes, including Gold Medal, Paris Exhbn. 1937, State Prize, 1st Class 1955, hon. award of Polish Architects Assn. 1977. Works include many industrial, sports and exhibition buildings such as Polish Printing Centre, Tenth Year Stadium (both in Warsaw) and pavilions, etc., Exhibition of Regained Territories (Wrocław). *Leisure interest:* cars. *Address:* Ul. Skolimowska 6 m.3, 00-795 Warsaw, Poland.

HSAIO WANG-TUNG; Chinese government official; b. Kiangsi Province, Leader Guerrilla Detachment, New 4th Army 1938; mem. E. China Mil. and Admin. Cttee. 1949-53; Sec. CCP N. Kiangsu Dist. Cttee. 1949; mem. Northern Admin. Council 1950-52; mem. Kiangsu Peoples Provincial Govt. 1952; mem. E. China Admin. Cttee. 1953; Deputy Political Commissar, PLA Nanking Mil. Region 1957; Deputy Sec. CCP Cttee. PLA Nanking Units 1958; Lieut. Gen. PLA 1958; Deputy for Nanking Units to 2nd NPC 1958, re-elected 3rd NPC 1964; mem. Nat. Defence Council 1965-67; Vice-Minister of Culture 1965-67; Sec., Cultural Dept., CCP Cen. Cttee. 1966; Acting Dir., Cultural Dept., CCP Cen. Cttee. 1966; branded Capitalist roader and a counter-revolutionary revisionist July 1967; Political Commissar Tsinan PLA Mil. Region 1978-. *Address:* People's Republic of China.

HSI CHIN-WU; Chinese government official and army officer; Commdr. Tibet Mil. District 1978-; Sec., Tibet Regional CCP Cttee. 1978-. *Address:* People's Republic of China.

HSI CHUNG-HSUN; Chinese government official; leading mem. in Shensi-Kansu border area before 1949; Sec., Special Party Cttee., Kuanchung Prefecture 1936-48; mem., N.W. China Bureau CCP Cen. Cttee. 1945; sent to reinforce leadership of Field Army led by Wang Chen 1946; First Sec. Kwangtung Provincial CCP Cttee. 1978-; Commdr. Honan Mil. Dist. 1978-. *Address:* People's Republic of China.

HSIANG CHUNG-HUA; Chinese army officer. Deputy Political Commissar, People's Liberation Army Armoured Force 1953, Political Commissar 1958; Lieut.-Gen. 1955; Deputy Chief of Staff PLA 1971; Alt. mem. 10th Cen. Cttee. of CCP 1973; Political Commissar, Canton Mil. Region PLA 1977. *Address:* People's Republic of China.

HSIANG SHOU-CHIH; Chinese soldier. Commander, Second Artillery Corps, PLA 1976. *Address:* People's Republic of China.

HSIAO CHING-KUANG; Chinese army officer; b. 1904, Changsha, Hunan; ed. Hunan Provincial Normal School, Sun Yat-sen Univ. and Red Army Coll., Moscow, U.S.S.R.; joined Communist Youth League and CCP 1920; Instructor Whampoa Mil. Acad. 1924; Political Commissar 5th Army Corps 1931; on Long March 1934-35; Commdr. Cavalry, Red Army 1938; Alt. mem. 7th Cen. Cttee. of CCP 1945; Commdr. Hunan Mil. District, People's Liberation Army 1949; Commdr. PLA Navy 1960-; Vice-Minister of Nat. Defence 1954-; mem. 8th Cen. Cttee. of CCP 1956, 9th Cen. Cttee. 1969, 10th Cen. Cttee. 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

HSIAO HAN; Chinese government and party official. Vice Minister of the Coal Industry, then Minister 1977-; Alt. mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

HSIAO HUA; Chinese army officer and party official; b. 1915, Kiangsi; Head of Youth Section, CCP Gen. Political Dept. 1932; on Long March 1934-36; Dir. Political Dept., Shantung Mil. District 1945; Deputy Dir., Gen. Political Dept., People's Revolutionary Mil. Council 1949, Dir., Gen. Political Dept. PLA 1964-68; mem. 8th Cen. Cttee. CCP 1956, Deputy Sec. Cen. Cttee, CCP 1956-68; criticized and removed from office during Cultural Revolution 1968; Political Commissar, Lanchow Mil. Region PLA 1976-, First Political Commissar 1978-; mem. 11th Cen. Cttee. CCP 1977; Sec. Kansu Prov. CCP Cttee. *Address:* People's Republic of China.

HSIEH HSUEH-KUNG; Chinese party official. Shansi Provincial People's Govt. 1950-52; Vice-Minister of Foreign Trade 1952-58; Pres. Peking Foreign Trade Coll. 1954-58; Sec. CCP Hopei 1958-68; Sec. N. China Bureau 1963-68; Chair. Tientsin Revolutionary Cttee. 1967; mem. 9th Cen. Cttee. of CCP 1969; First Sec. CCP Tientsin 1971-78; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

HSIN CHUN-CHIEH; Chinese government official; Commdr. Kiangsi PLA Mil. District 1978-; mem. Standing Cttee. Kiangsi CCP Cttee. 1978-. *Address:* People's Republic of China.

HSIN CHUN-CHIEH; Chinese army officer. Commander Hupeh Mil. District, People's Liberation Army 1970-72; Vice-Chair. Hupeh Revolutionary Cttee. 1971; Commdr. Kiangsi Mil. District, PLA; mem. Standing Cttee., Kiangsi CCP Cttee. *Address:* People's Republic of China.

HSIUNG HSIANG-HUI; Chinese diplomatist; b. 1920; ed. Case Western Reserve Univ., Cleveland, Ohio. Chargé d'affaires, U.K. 1962-65; now Sec. for Foreign Affairs; del. to UN Gen. Assembly 1971. *Address:* Ministry of Foreign Affairs, Peking, China.

HSIUNG SHIH-I; Chinese author; b. 14 Oct. 1902, Nanchang; s. of F. Yung Yu Hsiung and M. Ti-ping Chou; m. Dymia Tsai 1923; three s. four d.; Assoc.-Man. Chen Kwang Theatre, Peking 1922; Prof. Agricultural Coll., Nanchang 1923; Ed. Commercial Press, Shanghai 1926, Special Ed. 1928; Prof. Chung Shan Univ., Nanchang 1927; Man.-Dir. Pantheon Theatres Ltd., Shanghai 1929; Prof. Min Kuo Univ., Peiping 1930; Sec. China Soc., London 1933, Hon. Sec. 1935; Chinese Del. to Int. PEN Congress 1934, 1935, 1938, 1939, 1940, 1947, Hong Kong Del. 1971, 1973, Guest of Honour 1976; del. to Int. Theatre Inst. Congress 1948; Lecturer, Cambridge Univ. 1950-53; Dean, Coll. of Arts, Nanyang Univ. 1954-55; Managing Dir. Pacific Films Co. Ltd., Hong Kong 1955-; Chair. Bd. of Dirs. Standard Publishers Ltd, Hong Kong 1961-; Founder and First Pres. Tsing Hua Coll., Hong Kong 1963-; Hon. Ph.D. *Publications:* in English: Lady Precious Stream 1934, The Romance of Western Chamber 1935, Professor from Peking 1939, The Bridge of Heaven 1943, Life of Chiang Kai-Shek 1948, The Gate of Peace 1949, The Story of Lady Precious Stream 1950, Book of Chinese Proverbs 1953, Memoirs (Vols, I and II), 1978; translations into Chinese of B. Franklin's Autobiography 1923, of Barrie's and Shaw's plays, and Hardy's novels 1926-33. *Leisure interests:* calligraphy, painting. *Address:* 20 Aberdare Gardens, London, N.W.6, England; Tsing Hua College, Kowloon, Hong Kong; 101, Crespi Drive, San Francisco, Calif. 94132, U.S.A.

HSU CHIA-TUN; Chinese party official. Deputy Sec. CCP Kiangsu 1955, Sec. 1956-67; Vice-Gov. Kiangsu 1958-67; Vice-Chair. Kiangsu Revolutionary Cttee. 1970; First Sec. CCP Kiangsu and Chair. Kiangsu Revolutionary Cttee. 1976; First Political Commissar Kiangsu Mil. District PLA 1977-; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

HSU CHING-CHUNG, D.AGRIC.; Chinese politician; b. 19 July 1907, Taipei; s. of Teh An Hsu and Shyh Iuan Hung; m. Hwang Chen; two s. one d.; ed. Taipei Acad., Taipei Imperial Univ; Prof., Nat. Taiwan Univ. 1945-47; Dir. Agricultural and Forestry Admin., Taiwan Provincial Govt. 1947-49; Commr. Dept. of Agric. and Forestry, Taiwan Provincial Govt. 1949-54, Commr. 1954-57; mem. Cen. Planning and Evaluation Cttee., China Nationalist Party 1955-61, Deputy Sec.-Gen. Cen. Cttee. 1961-66; Minister of the Interior 1966-72; Vice-Premier of Exec. Yuan 1972-; mem. Standing Cttee., Taiwan Land Bank 1946-67, China Farmers' Bank 1967-72; Medal of Clouds and Banner. *Publications:* several studies on agricultural problems in Taiwan. *Leisure interests:* horticulture, reading, painting, golf. *Address:* c/o Executive Yuan, Taipei, Taiwan.

HSU HSIANG-CH'IEN; Chinese politician and fmr. army officer; b. 1902, Wu-tai, Shansi; ed. Taiyuan Normal School, Whampoa Mil. Acad; Dir. Political Dept., Student Army 1926; joined CCP 1927; Workers' Leader in Canton Uprising 1927; C.-in-C. 4th Front Army 1931; Deputy Commdr. 129th Div. 1939; mem. 7th Cen. Cttee. of CCP 1945; Commdr., Political Commissar 1st Army Corps 1948; Deputy Commdr. N. China Region, People's Liberation Army 1949-54; Chief of Staff PLA 1949-54; Vice-Chair. Nat. Defence Council 1954-; Marshal PLA 1955; mem. 8th Cen. Cttee. of CCP 1956; Vice-Chair. Standing Cttee., Nat. People's Congress 1965-; Minister of Nat. Defence 1978-; mem. 9th Cttee. of CCP 1969, 10th Cen. Cttee. 1973; Vice-Chair. Mil. Affairs Cttee., CCP Cen. Cttee. 1975-; mem. Politburo, 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

HSU PEH YUAN; Chinese international finance official; b. 1 Jan. 1903, Chekiang; m.; five c.; ed. Coll. of Commerce, Nat. Southeastern Univ. and Univs. of Chicago, Illinois and California; Asst. Gen. Man. China Electric Corpn. 1933-34; Deputy Dir.-Gen. Postal Remittance and Savings Bank, Shanghai 1934-35; Man. Bank of Communications 1935-39; mem. People's Political Council 1938-40; Deputy Sec.-Gen. and Sec.-Gen. Joint Bd. of Four Govt. Banks 1939-48; Vice-Minister of Finance 1946-48; Deputy Gov. Cen. Bank of China 1949-50; Chair. Bank of China 1949-51; Chair. Bank of Taiwan 1951-52; Commr. of Finance, Taiwan Provincial Govt. 1953-54; Minister of Finance 1954-58; Chair. Finance Cttee., Kuomintang 1954-70; Chair. Foreign Exchange and Trade Comm. 1950-51, 1953-54, 1955-58, 1963-69; Dean Economics Dept., Nat. War Coll. 1958-70; Exec. Dir. IMF 1970-72; Bd. Chair. CUTICO 1973-. *Address:* c/o CUTICO, 150 Nanking East Road, 2nd Section, Taipei, Taiwan.

HSU SHIH-YU; Chinese army officer; b. 1906, Honan; Commdr. 9th Army 1933; Chief Commdr. of Cavalry 1935; Brigade Commdr. 1940; Commdr. Chinglo Mil. District 1942, Ponai Mil. District 1944; Commdr. 11th Army Corps, 3rd Field Army 1948; Commdr. Shantung Mil. District, People's Liberation Army 1950; Deputy Commdr. 3rd Field Army, PLA 1954; mem. Nat. Defence Council 1954-; Col.-Gen. 1955; Alt. mem. 8th Cen. Cttee. of CCP 1956; Commdr. Nanking Mil. Region, PLA 1957-73; Vice-Minister of Nat. Defence 1959; Sec. E. China Bureau, CCP 1966; Chair. Kiangsu Revolutionary Cttee. 1968-73; mem. Politburo, 9th Cen. Cttee. of CCP 1969; First Sec. CCP Kiangsu 1971; mem. Politburo, 10th Cen. Cttee. of CCP 1973, 1975, 11th Cen. Cttee. 1977; Commdr. Canton Mil. Region PLA 1974-. *Address:* People's Republic of China.

HU CHI-CHENG; Chinese army officer; fmr. Commdr. Szechwan Mil. District PLA. *Address:* People's Republic of China.

HU NIM; Cambodian politician; b. 1929; fmr. deputy Nat. Assembly in Prince Sihanouk's party, Sangkum Reastr Nyum (Popular Socialist Community); left Sangkum party, went underground and became active in Khmers Rouges 1967; Minister of Information and Propaganda Royal Govt. of Nat. Union of Cambodia (GRUNC) 1970-76 (in exile 1970-75, in Phnom-Penh 1975-76), Democratic Cambodia 1976-79; mem. Politburo Nat. United Front of Cambodia (FUNC) 1970-79, rep. in S.W. Cambodia 1970-75; mem. People's Representative Assembly 1976-79.

HU PING-YUN; Chinese army officer. Cadre, 6th Company, Red 4th Regiment, 8th Route Army 1935; took part in Long March 1935; Maj. Gen., PLA Units in Lanchow 1959; Vice-Commdr. PLA Lanchow Mil. Region 1960; Commdr. PLA Shensi Mil. Dist. 1964-; Sec. Shensi CCP Cttee. *Address:* People's Republic of China.

HU SHANG-LI; Chinese government official; Political Commissar, Honan Mil. District 1978-; Sec. Honan Provincial CCP Cttee. 1978-; Vice-Chair, Honan Revolutionary Cttee. 1978-. *Address:* People's Republic of China.

HU WEI; Chinese army officer. Deputy Commdr., Shansi People's Liberation Army 1967; Vice-Chair. Shensi Provincial Revolutionary Cttee. 1968; Alt. mem. 9th Cen. Cttee. of CCP 1969, 10th Cen. Cttee. of CCP 1973; Deputy Chief of Gen. Staff, PLA 1974. *Address:* People's Republic of China.

HU YAO-PANG; Chinese government official; b. Hunan Province; Head Communist Youth League's Org. Dept. 1935; mem. Cen. Cttee. Communist Youth League 1936; Head Political Dept., 2nd Field Army 1948; Vice Chair., Taiyuan Mil. Control Comm. 1949; mem. Cen. Cttee. Communist Youth League 1949, First Sec. 1957; mem. Exec. Board Sino-Soviet Friendship Assn. 1949-54; Head Political Dept. 18th Corps, 2nd Field Army 1949; Dir., and Head Finance and Econs. Cttee, N. Szechuan People's Admin. Office 1950; Political Commissar N. Szechuan Mil. Dist. 1950; mem. S.W. Mil and Admin. Cttee. 1950-52; Head, New Democratic Youth League 1952; Sec. New Democratic Youth League 1953; mem. Nat. Cttee. of the All-China Fed. of Democratic Youth 1953-58; Vice-Chair. World Fed. of Democratic Youth 1953-59; mem. Standing Cttee INPC 1954-59 (re-elected 2nd NPC 1959, 3rd NPC 1964); mem. Exec. Cttee. All-China Fed. of Trades Unions 1953-57; mem. Cen. Work Cttee for the Popularisation of Standard Spoken Chinese 1956; Vice-Chair. Nat. Association for the Elimination of Illiteracy 1956; mem. 8th Cen. Cttee. CCP 1956-67; Acting First Sec. Shensi CCP Cttee. 1965; mem. 11th Cen. Cttee. CCP 1977-; mem. Politburo CCP Cen Cttee 1978-; Sec. Gen. CCP Cen. Cttee 1978-; Third Sec. Cen. Cttee. for Inspecting Discipline 1978-; Dir. Propaganda Dept. CCP Cen. Cttee 1978. *Address:* People's Republic of China.

HUA KUO-FENG; Chinese politician; b. 1920; Vice-Gov. Hunan 1958-67; Sec. CCP Hunan 1959; Vice-Chair. Hunan Revolutionary Cttee. 1968, Chair. 1970; mem. 9th Cen. Cttee. of CCP 1969; First Sec. CCP Hunan 1970-77; Political Commissar Canton Mil. Region, People's Liberation Army 1972; First Political Commissar Hunan Mil. District, PLA 1973; mem. Politburo, 10th Cen. Cttee. of CCP 1973; Deputy Premier and Minister of Public Security 1975-76, Acting Premier Feb.-April 1976, Premier April 1976-; First Vice-Chair. Cen. Cttee. of CCP April-Oct. 1976, Chair. Oct. 1976-; Chair. CCP Military Affairs comm. Oct. 1976-; Chair. and mem. Politburo, 11th Cen. Cttee. CCP 1977; Exec. Chair. Presidium, 5th Nat. People's Congress. *Address:* Office of the Premier, State Council, Peking, People's Republic of China.

HUA SHAN; Chinese government official. Minister of Culture 1977-78. *Address:* People's Republic of China.

HUANG CHAO-TIEN; Chinese soldier. Commdr. Kiangsu Mil. District, PLA 1975-; mem. Standing Cttee. Kiangsu Prov. CCP Cttee 1978. *Address:* People's Republic of China.

HUANG CHEN; Chinese diplomatist; b. 1907. Deputy Dir. 18th Div., Shansi-Hopei-Shantung Border Region Army 1944; after war Deputy Political Dir. in mil. admin. areas; Amb. to People's Republic of Hungary 1950-54; Amb. to Republic of Indonesia 1954-61; rep. at the Afro-Asian Conf. 1955; Deputy Foreign Minister 1961-64; Amb. to France 1964-73; Head of Mission, U.S.A. 1973-77; Minister of Culture Dec. 1977-; Deputy Head of CCP Propaganda Dept. Dec. 1977-; mem. 11th Cen. Cttee. CCP 1977. *Leisure interests:* painting, calligraphy. *Address:* People's Republic of China.

HUANG CHIEH; Chinese civil servant; b. 2 Nov. 1903, Hunan Province; s. of Huang Tao; m. Hou Meng-hao; one d.; ed. Mil. Acad., Army War Coll. and Nat. Defence Coll; Commdt. Cen. Training Corps 1945-48; Vice-Minister of Nat. Defence 1948-49; Gov. of Hunan, concurrently Commdg. Gen. 1st Army 1949; Commdg. Gen. Chinese Troops stationed in Indo-China 1949-53; Taipei Garrison Command 1953-54; C.-in-C. Chinese Army, concurrently C.-in-C. Taiwan Garrison Gen. H.Q. 1958-62; Gov. Taiwan Province 1962-69; Minister of Nat. Defence 1969-72; Gen. Special Adviser to Pres. on Mil. Strategy 1972-; numerous decorations from China, U.S.A., Thailand, Philippines, Spain, Iran, Iraq, Korea and Venezuela. *Address:* c/o Office of the President, Taipei, Taiwan.

HUANG CHING-YAO; Chinese army officer. Deputy Commdr. Heilungkiang Mil. District, People's Liberation Army 1959; Commdr. Shensi Mil. District, PLA 1967-78; Vice-Chair. Shensi Revolutionary Cttee. 1968; Sec. CCP Shensi 1971; Commdr. Ninghsia Mil. District, Deputy Commdr. Lanchow Mil. Region, PLA 1978; Sec. Ninghsia Regional CCP Cttee. 1978. *Address:* People's Republic of China.

HUANG HSIN-TING; Chinese soldier. Regimental Commdr., Second Front Army 1935; Deputy Commdr. of Chengtu Mil. Region, PLA 1955-66; criticized and removed from office during Cultural Revolution 1967; Commdr. PLA Armoured Corps 1976. *Address:* People's Republic of China.

HUANG HUA; Chinese diplomatist; b. 1913, Hopei Province; m. Ho Li-liang; ed. Yench'ing Univ., Peking; fmr. Dir., Foreign Affairs Bureau of Tientsin, Nanking and Shanghai; later Dir., West European Dept., Ministry of Foreign Affairs; Chief. Chinese del. at Panmunjom (Korean War truce negotiations) 1953; Amb. to Ghana 1960-66, to Egypt 1966-70, to Canada April-Nov. 1971; Perm. Rep. to UN 1971-76; Minister of Foreign Affairs Dec. 1976-; mem. 11th Cen. Cttee. CCP 1977. *Address:* Ministry of Foreign Affairs, Peking, People's Republic of China.

HUANG HUO-CHING; Chinese government official; b. 1900; Hupei Province; Section Chief Social Affairs Dept. and concurrently Dir., Labor Dept. CCP Cen. Cttee. 1926; mem. Board of Directors Sino-Soviet Friendship Assen. 1949-54; mem. Tientsin Fed. of Trades Unions 1949-53; Chair. 1953-55; mem. Standing Cttee. All-China Fed. of Trades Unions 1952, mem. Exec. Cttee. 1953-57; Acting Sec. CCP Tientsin Municipal Cttee. 1952-53, Sec. 1953-58 (office became First Sec. 1955); Chair. Tientsin Municipal CPPCC Cttee. 1953-58; mem. Standing Cttee. INPC 1954-59; Mayor Tientsin 1955-58; Alt. mem. CCP 8th Cen. Cttee. 1956; First Sec. Liaoning Prov. CCP Cttee. 1958-67; First Political Commissar N.E. Bureau Liaoning 1961; Sec., Secr., N.E. Bureau CCP Cen. Cttee. 1961; Chief Procurator of Supreme People's Procuratorate 1978-. *Address:* People's Republic of China.

HUANG OU-TUNG; Chinese party official; b. circa 1907, Pinghsiang, Kiangsi; Regimental Commdr. 129th Div. 1939, Brigade Commdr. 1945; Gov. of Liaoning 1949-55, 1958-68; Shenyang 1952-54; Sec. CCP Liaoning 1954-57, First Sec. 1957-58, Second Sec. 1958-68; alt. mem. 8th Cen. Cttee. of CCP 1956; Sec. N.E. Bureau, CCP 1962-68; criticized and removed from office during Cultural Revolution 1968; Vice-Chair. Liaoning Revolutionary Cttee. 1973; Sec. CCP Liaoning 1973-; mem. 11th Cen. Cttee. CCP 1977; mem. Nat. Cttee. 5th C.P.P.C.C. *Address:* People's Republic of China.

HUANG SHAO-KU; Chinese politician; b. 9 June 1901; ed. National Peking Normal Univ.; Sec.-Gen. of Exec. Yuan 1949-54; Vice-Premier, Exec. Yuan 1954-58, 1966-69; Minister of Foreign Affairs 1958-60; Amb. to Spain 1960-62; Sec.-Gen. Nat. Security Council 1967-; Sr. Adviser to Pres. 1976-. *Address:* 10 Lane 85, Sungkiang Road, Taipei, Taiwan.

HUANT, Ernest Albin Camille; French doctor, writer, philosopher and sociologist; b. 29 Oct. 1909, Vouziers, Ardennes; s. of Alphonse Huant and Hélène Potier; m. Odette Mazoyer 1942; one s. one d.; ed. Lycée de Charleville, Louis le Grand, Faculté des Sciences, Faculté de Médecine, Paris; medical radiologist, Paris hospitals 1943; Pres. Centre d'Etudes des Problèmes de l'Homme 1960; mem. Soc. d'Economie Politique, Paris 1958-; Scientific Adviser to Labs. 1957-; mem. Int. Cttee. and French Del. to Int. Soc. for Cybernetic Medicine 1965; Lauréat de l'Institut de France 1964-65; Pres. de la Société d'études philosophiques des Sciences de la nature 1967; Pres. du Centre Int. de Cyto-Cybernétique 1967, Pres. and Founder of Centre Int. Humanae Vitae 1968; Sorbonne Thesis Prize 1933; Prix de l'Acad. de Médecine for Les traitements mitotiques du cancer 1958, and Les maladies de société 1961; Prix de l'Acad. des Sciences Morales et Politiques for Florence et Rome and Prix Littré (Union Int. des Ecrivains Médecins) 1965; Chevalier Légion d'honneur; Carnegie Foundation Medal (U.S.A.). *Publications:* Les radiations et la vie 1942, Déterminisme et finalités 1946, Connaissance du temps 1951, Biologie et cybernétiques 1954, Credo de Jean Rostand 1957, L'anti-masse 1957, Du biologique au social 1957, Milieu et adaptation 1959, Les maladies de société 1961, Le péché contre la chair 1961, Naitre ou ne pas naître 1963, A.D.N. Recherches expérimentales et cliniques 1964, Florence et Rome 1964, Economie et cybernétique 1965, Voyage en Assuro-Socyalie 1965, Masses-Morale-Machines 1967, Le troisième triumvirat 1967, Les pressions du nouveau temporel 1968, Les structures intelligibles du réel 1968, L'unité romaine de l'an 1000: Othon III 1971, Non à l'avortement 1972, temporalité, Finalité, Survie, Analyse psycho-cybernétique 1975, La nouvelle face de Méduse 1976, Cybernétique des 3 "E": économie, environnement, écologie 1978, Les étranges courses du Colonel d'Hourdoff 1978, Mort, mémoire et rêves 1978, Base Minos 1979, Réfléchissons Porphyre! 1979. *Leisure interests:* Roman history, Florentine art. *Address:* 9 avenue Niel, 75017 Paris, France. *Telephone:* 380-28-72.

HUBBERT, Marion King, B.S., M.S., PH.D.; American geologist and geophysicist; b. 5 Oct. 1903, San Saba, Tex.; s. of William Bee Hubbert and Cora Virginia Lee; m. Miriam Graddy Berry 1938; ed. Weatherford Coll., Tex. and Univ. of Chicago; Asst. Geologist, Amerada Petroleum Corpn. 1927-28; Teaching Asst. Univ. of Chicago 1928-30; Instructor in Geophysics, Columbia Univ. 1931-41; Geophysicist, Ill. State, and U.S. Geological Surveys 1931-37; Sr. Analyst, U.S. Bd. of Econ. Warfare, Washington 1942-43; Research Geophysicist, Shell Oil Co., Houston 1943-45, Assoc. Dir. of Research 1945-51, Chief Consultant (Gen. Geology), Shell Oil Co. and Shell Devt. Co., Houston 1951-64; Visiting Prof., Geology and Geophysics Stanford Univ. 1962-63, Prof. 1963-68; Research Geophysicist, U.S. Geological Survey 1964-76; Regents' Prof., Univ. of Calif., Berkeley 1973; mem. Cttee. on Geoscience and Man, Int. Union of Geological Sciences 1973-76; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences and others; Hon. Life mem. Soc. of Exploration Geophysicists 1960, Hon. mem. American Assen. of Petroleum Geologists 1974, Canadian Soc. of Petroleum Geologists 1974, American Inst. of Mining, Metallurgical and Petroleum Engineers 1978; D.Sc. h.c. (Syracuse Univ.) 1972; Arthur L. Day Medal of Geological Soc. of America 1954, Anthony F. Lucas Gold Medal Award, American Inst. of Mining, Metallurgical and Petroleum Engineers 1971; Penrose Medal Geological Soc. of America 1973; Rockefeller Public Service Award 1977; William Smith Medal, Geological Soc. of London 1978. *Publications:* six books and numerous articles in various scientific journals. *Leisure interests:* reading, conversation, music, experimentation. *Address:* 5208 Westwood Drive, Westmoreland Hills, Washington, D.C. 20016, U.S.A. *Telephone:* (301) 229-7798.

HUBBS, Carl L(eavitt), A.M., PH.D.; American biologist; b. 18 Oct. 1894, Williams, Ariz.; s. of Charles L(eavitt) and Elizabeth Goss Hubbs; m. Laura C. Clark 1918; two s. one d.; ed. Stanford Univ. and Univ. of Mich.; Asst. Curator, Ichthyology and Herpetology, Field Museum of Natural History 1917-20; Curator of Fishes and Instructor to Prof., Univ. of Mich. 1920-44; Prof. of Biology, Scripps Inst. of Oceanography, Univ. of Calif., San Diego 1920-67, Prof. Emer. of Biology 1967-; Dir. Inst. for Fisheries Research, Mich. 1930-35; Field Rep., U.S. Dept. of Interior 1939-40; mem. Nat. Acad. of Sciences; Hon. mem. Ichthyological Soc. of Japan, Ichthyological Soc. of France, Explorers Club; Russell Award, Univ. of Mich. 1929; Joseph Leidy Award and Medal, Philadelphia Acad. of Natural Sciences 1964; Fellow Award and Medal, Calif. Acad. of Sciences 1966; Gold Medal for Conservation, San Diego Zoological Soc. 1970; Shinkishi Hatai Award and Medal, Japan Science Assen. 1971; Award of Excellence, American Fisheries Soc. 1973; Scientist of the Year, San Diego Soc. of Natural History 1974; Outstanding Conservationist Award, Nat. Underwater Parks and Reserves Assen. 1974; Man-of-the-Year, American Cetological Soc. 1974; Special Award for 80th Birthday, Ichthyological Soc. of Japan 1974. *Publications:* Co-author: Methods for the Improvement of Michigan Trout Streams 1932, Minnows of Michigan 1936, The Smallmouthed Bass 1938, Improvement of Lakes for Fishing 1938, Fishes of the Great Lakes Region 1947, 1964, Paleohydrophy and Relict Fishes of the North-Central Great Basin 1974; over 500 articles and notes. *Leisure interests:* travel, local and national conservation affairs. *Address:* Scripps Institution of Oceanography, University of California, La Jolla, Calif. 92039; 2405 Ellentown Road, La Jolla, Calif. 92037, U.S.A. (Home).

HUBEL, David Hunter, M.D.; American professor of neurobiology; b. 27 Feb. 1926, Windsor, Ont., Canada; s. of Jesse H. Hubel and Elsie M. Hunter; m. Shirley R. Izzard 1953; three s.; ed. McGill Univ; Prof. of Neurophysiology, Harvard Medical School 1965-67, George Packer Berry Prof. of Physiology and Chair. Dept. of Physiology 1967-68, George Packer Berry Prof. of Neurobiology

1968-; mem. Nat. Acad. of Sciences, Leopoldina Acad.; Sr. Fellow, Harvard Soc. of Fellows 1971-; Ferrier Lecturer 1971; Hon. D.Sc. (McGill) 1978; Lewis S. Rosenstiel Award for Basic Medical Research (Brandeis Univ.) 1972, Friedenwald Award (Assn. for Research in Vision and Ophthalmology) 1975, Karl Spencer Lashley Prize (American Philosophical Soc.) 1977, Louisa Gross Horwitz Prize, (Columbia Univ.) 1978. *Publications:* articles in scientific journals. *Leisure interests:* music, photography, astronomy, Japanese. *Address:* Department of Neurobiology-B, Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115; 98 Collins Road, Waban, Mass. 02168, U.S.A. (Home). *Telephone:* (617) 732-1655 (Office); (617) 527-8774 (Home).

HUBER, Antje Charlotte; German politician; b. 23 May 1924, Stettin (now Szczecin, Poland); d. of Bruno Pust and Charlotte Hedwig Luise Pust; m. Karl Huber 1950; ed. Sozialakademie, Dortmund; Tutor, Sozialakademie 1962-69; mem. Sozialdemokratische Partei Deutschlands (SPD) 1948-; mem. Dortmund Municipal Council; mem. various local, state and fed. bodies of SPD 1948-69; mem. Bundestag (Lower House of Parl.) 1969-, later SPD spokesman on Finance and Taxation, Vice-Chair: Finance Cttee. of Bundestag; Fed. Minister for Youth, Family Affairs and Health 1976; mem. SPD Presidium 1977-. *Address:* Am Vogelherd 12, 4300 Essen-Werden, Federal Republic of Germany. *Telephone:* (02221) 834-800 (Office).

HUBER, Karl, PH.D.; Swiss government official; b. 18 Oct. 1915, Häggenschwil; s. of Carl Huber and Mathilde Haessig; m. Elizabeth Fink 1945; one s. two d.; ed. primary school and high school, St. Gall, and Univ. of Berne; entered Fed. Admin. 1941, mem. staff of Gen. Secr. of Ministry of Political Econ.; Sec.-Gen. Ministry of Political Econ. 1954; Fed. Chancellor of Swiss Confederation 1967-. *Leisure interests:* history, swimming, walking. *Address:* Federal Chancellery, Swiss Confederation, 3003 Berne, Switzerland.

HUCHEL, Peter; German writer; b. 3 April 1903, Lichterfelde, Berlin; s. of Friedrich Huchel and Marie Zimmermann; m. Monica Nora Rosenthal 1953; one s. one d.; ed. Humboldt-Universität zu Berlin, Albert-Ludwigs-Universität, Freiburg-im-Breisgau and Universität Wien; freelance writer 1925-45, 1962-; lived in France 1926-28; travelled in Balkans and Turkey 1930-32, U.S.S.R., England, Netherlands, Belgium, Italy, Bulgaria, Czechoslovakia and Poland 1952-60; Dir. and Arts Dir. Berliner Rundfunk 1945-48; Chief Ed. Sinn und Form (literary magazine) 1949-62; mem. Group 1947; mem. German Acad. of Arts, Berlin; hon. mem. Freie Akademie der Künste, Hamburg; mem. Akademie der Künste, West Berlin; Lyrikpreis des Zeitschrift Kolonne 1932, Nationalpreis 1951, Theodor-Fontane-Preis der Mark Brandenburg 1955, Plakette der Freien Akademie der Künste, Hamburg 1959, Berliner Kunstpreis für Literatur (Fontane-Preis) 1963, Preis der jungen Generation, Hamburg 1965, Grosser Kunstpreis des Landes Nordrhein-Westfalen 1968, Österreichische Staatspreis 1972, Literaturpreis der Freimaurer 1974, Literaturpreis, Kulturkreis der deutschen Industrie 1976. *Publications:* include: Poems 1948, Poems 1949, Dvanact Noci 1958, Poems 1959, Chausseen, Chausseen 1963, Silnice, Silnice 1964, Die Sternenreuse 1967, Wiersze 1967, Under dem Sternbild des Hercules 1968. *Leisure interest:* painting cats. *Address:* c/o Suhrkamp Verlag, Postfach 4229, 6000 Frankfurt a.M., Federal Republic of Germany.

HUDDLESTON, Most Rev. (Ernest Urban) Trevor, M.A.; British ecclesiastic; b. 15 June 1913, Bedford; s. of Ernest and Elsie Huddleston; ed. Christ Church, Oxford; ordained Deacon 1936, Priest 1937,; Curate, St. Mark's Swindon 1936-39; professed Community of the Resurrection, Mirfield 1941; Prior and Priest-in-Charge, Sophiatown, Orlando, and Pimville, Johannesburg 1943, Provincial of the Community of the Resurrection, South Africa 1949-56; Novice-Master, Community of the Resurrection, England 1956-58; Prior, London Community of the Resurrection 1958-60; Bishop of Masasi, Tanzania 1960-68; Suffragan Bishop of Stepney 1968-78 (resgnd.); Bishop of Mauritius 1978-, also Archbishop of the Anglican Prov. of the Indian Ocean; Vice-Pres. Anti-Apartheid Movement 1969-; Trustee, Runnymede Trust 1972-; Hon. D.D. (Aberdeen Univ.), Hon. D.Litt. (Lancaster Univ.). *Publications:* Naught for Your Comfort 1956, The True and Living God 1964, God's World 1966. *Address:* Bishop's House, Phoenix, Mauritus.

HUDDLESTON, Walter D., B.A.; American politician; b. 15 April 1926, Cumberland County, Kentucky; s. of W. F. Huddleston; m. Jean Pearce 1947; two s.; ed. Jeffersontown High School, Ky. and Univ. of Kentucky. State Senator, Kentucky 1965, 1971; Chair. Democratic Caucus, Ky. Gen. Assembly, twice Majority Leader of Ky. Senate; U.S. Senator for Ky. 1972-, mem. Agric. and Forestry, Appropriations, Intelligence Cttees., 93rd Congress; Democrat. *Leisure interests:* tennis, golf. *Address:* 3327 Dirksen Building, U.S. Senate, Washington, D.C. 20510; 4139 27th Street, North Arlington, Va. 22207, U.S.A. (Home). *Telephone:* (202) 224-2542 (Office); (703) 527-4148 (Home).

HUDON, L. Denis, M.A.; Canadian financial executive; b. 21 Dec. 1924; ed. Laval Univ., Quebec, and Toronto Univ.; Econ. Policy Div., Dept. of Finance, Ottawa 1948-51; Sec. (Financial), Perm. Canadian Mission to NATO 1952-54; Int. and Econ. Div. (Int. Programmes and Contributions), Dept. of Finance, Ottawa 1954-60; Dir. Policy and Planning Coordination, External Aid Office 1960-61; Alt. Dir. IMF, IBRD, IDA 1961-64, Exec. Dir. for Canada, Ireland and Jamaica 1965-68; Deputy Dir.-Gen. External Aid Office 1967-68; Vice-Pres. (Planning) Canadian Int. Devt. Agency (fmrly. External Aid Office) 1968-71; Asst. Sec. to Cabinet (Econ. Policy) Privy Council Office Feb.-Dec. 1971; Deputy Sec. to Cabinet (Operations) Privy Council Office 1971-; Financial Counsellor, Canadian Embassy, Washington 1961-64; Dir. Int. Programmes Div., Dept. of Finance, Ottawa 1964-66. *Address:* Cabinet (Operations) Privy Council Office, Ottawa, Canada. *Telephone:* 992-8427.

HUDSON, Sir Havelock Henry Trevor, Kt.; British underwriter; b. 4 Jan. 1919, Hong Kong; s. of Savile E. Hudson and Dorothy Hudson (née Cheetham); m. 1st Elizabeth Home 1944 (dissolved 1956), two s.; m. 2nd Cathleen Blanch Lily 1957, one s. one d.; ed. Rugby School; merchant service 1937-38; joined Lloyd's 1938; war service 1939-45, Royal Hampshire Regt. (Maj.) 1939-42, 9th Parachute Bn. 1942-44; mem. Cttee. Lloyd's Underwriters' Assn. 1963, mem. Cttee. Lloyd's 1965-68, 1970-73, 1975-78, Deputy Chair. 1968, 1971, 1973, Chair. 1975-77; mem. Exec. Bd. Lloyd's Register of Shipping 1967-; mem. Working Party under Lord Cromer on Conditions of Underwriting Membership of Lloyd's 1968; Chair. Arvon Foundation 1973-; Vice-Pres. Chartered Insurance Inst. 1973-77; Dir. Ellerman Lines 1979-; Freeman of the City of London; Lloyds Gold Medal 1977. *Leisure interest:* shooting. *Address:* The Old Rectory, Stanford Dingley, Near Reading, Berkshire, RG7 6LX, England. *Telephone:* 01 623 7100 (Office); Bradfield (0734) 744346 (Home).

HUDSON, Thomas Charles, C.B.E., C.A.; British business executive; b. 23 Jan. 1915, Sidcup, Kent, England; s. of Charles B. and Elsie E. (née Harris) Hudson; m. Lois A. Johnson 1944 (divorced); one s. one d.; ed. Middle High School, Nova Scotia; articled to Nightingale Hayman, Nova Scotia 1935-40; Lieut. Royal Canadian Volunteer Reserve 1942-46; joined IBM 1946, Man. Dir. IBM (U.K.) Ltd. 1954-65; Dir. of Finance and Corporate Planning, The Plessey Co. Ltd. 1966-68; Chair. and Man. Dir. T. C. Hudson Assocs. Ltd., Man. Consultants 1968-72; mem. GLC 1970-73; Chair. International Computers (Holdings) Ltd. 1972-. *Leisure interests:* tennis, gardening, skiing. *Address:* International Computers Ltd., ICL House, Putney High Street, London, S.W.15; Highgate House, Merton Lane, London, N6 6NA, England (Home). *Telephone:* 01-340 9018 (Home).

HÜE DE LA COLOMBE, Jean; French metals executive; b. 22 March 1915; ed. Ecole Polytechnique; fmr. Chair. USINOR (Union Sidérurgique du Nord et de l'Est de la France); Pres., Dir. Gen. Denain Nord-Est Longwy Oct. 1977-; Dir., Vice-Pres. Vallourec; Officier, Légion d'honneur. *Address:* Denain Nord-Est, Longwy, 25 rue de Clichy, Paris 9e, France.

HUEBNER, Robert Joseph; American virologist; b. 23 Feb. 1914, Cincinnati (Cheviot), Ohio; s. of Joseph and Philomena (Brickner) Huebner; m. 1st Grace Berdine Hoffman 1939, three s. six d.; m. 2nd Harriet Lee Streicher 1975; ed. Xavier Univ., Univ. of Cincinnati and St. Louis Univ. School of Medicine; Intern U.S. Public Health Service (U.S.P.H.S.) Hosp., (U.S. Coast Guard) 1942-43; Medical Officer, Coast Guard, Alaska Command 1943-44; Commissioned Officer, U.S.P.H.S. Lab. of Infectious Diseases, Nat. Microbiological Inst. 1944-49, Chief Section on Virus and Rickettsial Diseases 1949-56; Chief Lab. of Viral Diseases, Nat. Inst. of Allergy and Infectious Diseases 1956-68; Chief, Lab. of RNA Tumor Viruses, Nat. Cancer Inst. 1968-; mem. Nat. Acad. of Sciences Hon. LL.D. (Cincinnati) 1965; D.Sc. h.c. (Edgecliff Coll., Cincinnati) 1970; Hon. D.Sc. (Parma) 1970; Dr. h.c. (Leuven) 1973; Pasteur Medal 1965; Distinguished Service Medal, Public Health Service 1966; Howard Taylor Ricketts Award 1968; Nat. Medal of Science 1969; Kimble Methodology Award 1970; Rockefeller Public Service Award 1970; Guido Lenghi Award, Accad. Naz. dei Lincei, Rome 1971; Founders Award in Cancer Immunology, Cancer Research Inst., N.Y. 1975. *Publications:* Numerous articles in professional journals. *Address:* National Institutes of Health, Bethesda, Md.; Rockville, Md., U.S.A. (Home). *Telephone:* 301-496-3301.

HUERTA DÍAZ, Vice-Admiral Ismael; Chilean naval officer and diplomatist; b. 13 Oct. 1916; s. of Rear-Adm. Ismael Huerta Lira and Lucrecia Diaz Vargas; m. Guillermina Wallace Dunsmore

Aird 1942; two s. two d.; ed. Sacred Heart School, Valparaíso, Naval Acad., Ecole Supérieure d'Electricité, Paris, Naval Polytechnic Acad., Chile; successive posts in Chilean Navy include Dir. of Armaments, Dir. of Instruction, Dir. of Scientific Investigation, Dir. of Naval Polytechnic Acad., Dir. of Shipyards, Dir.-Gen. of Army Services; Prof. of Electronics, Univ. de Concepción 1954, 1955, 1956; Prof. of Radionavigation, Univ. Católica de Valparaíso 1962-67; mem. Org. Cttee., Pacific Conf., Viña del Mar 1970, Pres. Centre of Pacific Studies 1970-72; Dir. Compañía de Acero del Pacífico (CAP) 1970, 1971, 1972; Pres. Nat. Transport Cttee. 1972; Minister of Public Works 1973, of Foreign Affairs 1973-74; Perm. Rep. to UN 1974-77; Rector Univ. Tecnica Federico Santa Maria 1977-; Chair. Bd. Empresa Maritima del Estado 1978-; mem. Coll. of Chilean Engineers. Inst. of Mechanical Engineers of Chile; Decoration of Pres. of the Repub. (Chile), Grand Officer Order of Léopold II (Belgium), Gran Cruz de la Orden del Libertador San Martín (Argentina), Gran Cruz Extraordinaria de la Orden Nacional al Mérito (Paraguay), Medall Kim-Kank (Repub. of Viet-Nam). *Publications:* The Role of the Armed Forces in Today's World 1968, and various technical articles. *Address:* c/o Ministerio de Relaciones Exteriores, Santiago, Chile.

HUET, Philippe Emile Jean, D. en D. ET SC. POL.; French economist and civil servant; b. 17 March 1920, Paris; s. of Paul Huet and Marcelle Weill; m. Antoinette Ripert 1950; five c.; ed. Ecole Saint-Louis de Gonzague, Sorbonne and Law Faculty, Paris, Ecole des Sciences Politiques, Paris; studied at Inspectorate-Gen. of Finance 1946; Adviser to Office of the Pres. of Council 1947-48, to Office of the Minister of Defence 1949, to Office of the Minister of Finance 1950-51; Head of Finance and Defence Budgets Div., NATO 1951-56; Dir. de Cabinet of Minister of Econ. and Financial Affairs 1956-57; Financial Counsellor to French Embassy, London 1957-62; Dir.-Gen. for Internal Trade and Prices, Ministry of Econ. and Finance 1962-68; Auditor Bank of France 1962-71; Dir.-Gen., Head of Mission for the rationalization of budget choices 1968-71; Insp.-Gen. of Finance 1972-; Consultant OECD Council 1972-; Pres. Man. Bd. SEITA 1974-. *Publications:* La politique économique de la Grande-Bretagne depuis 1945 1969, L'expérience française de rationalisation des choix budgétaires 1973. *Leisure interests:* gardening, pottering about. *Address:* SEITA, 53 quai d'Orsay, 75007 Paris; OECD, 19 rue de Franqueville, 75016 Paris; 10 avenue d'Eylau, 75116 Paris, France (Home). *Telephone:* 555-91-50 (SEITA); 524-87-26 (OECD); 553-29-84 (Home).

HUET, Pierre, D. en D.; French civil servant; b. 12 Nov. 1920, Paris; m. Catherine Viénot 1944; one s. two d.; ed. Paris Law Faculty and Ecole des Sciences Politiques; Special Asst., French Govt. Refugee Del. 1940, Asst. to Sec. of State, Ministry of Food 1944; Jr. mem. Conseil d'Etat, mem. Legal Cttee. of French Union 1946; Asst. to Sec.-Gen., Cttee. for European Econ. Co-operation 1947; Legal Adviser, OEEC 1948; Gen. Counsel, OEEC 1956; Dir.-Gen. European Nuclear Energy Agency 1958-64; Sec.-Gen. Council of State 1966-70; Councillor of State 1970; Chair. Bd., Asscn. Technique pour l'Energie Nucléaire 1965-75; Bd. Centre d'Informatique Juridique 1971-; Vice-Chair. European Atomic Forum (FORATOM) 1973-75; Chair. Comm. Interministérielle des radioéléments artificiels, Comm. Nationale des Sondages, Comm. Nationale des Réseaux Cablés; Commdr. Ordre de Léopold (Belgium); Grosses Goldene Ehrenzeichen für Verdienste (Austria), Officier, Légion d'honneur, Commdr. Ordre nat. du Mérite. *Address:* 128 boulevard Malesherbes, 75017 Paris, France.

HUGGINS, Charles B., B.A., M.D.; American professor of surgery and cancerologist; b. 22 Sept. 1901, Halifax, Canada; s. of Charles Edward and Bessie (Spencer) Huggins; m. Margaret Wellman 1927; one s. one d.; ed. Acadia and Harvard Univs.; houseman in surgery, Univ. of Mich. 1924-26, Instructor 1926-27; Instructor in Surgery, Univ. of Chicago 1927-29, Asst. Prof. 1929-33, Assoc. Prof. 1933-36, Prof. 1936-; Dir. Ben May Laboratory for Cancer Research 1951-69; mem. Nat. Acad. of Sciences 1949, William B. Ogden Distinguished Service Prof. 1962, American Philosophical Soc. 1962; Chancellor, Acadia Univ. 1972; Hon. mem. Royal Soc. of Medicine 1956; Hon. Fellow, Royal Coll. of Surgeons, Edinburgh 1958, London 1959, American Coll. of Surgeons 1963, Royal Coll. Surgeons, Canada 1973; Orden Pour le Mérite (Federal Republic of Germany), Orden El Sol del Perú; numerous gold medals and prizes; Charles L. Mayer Award, Nat. Acad. of Sciences 1944, Francis Amory Prize 1948, Ferdinand Valentine Award 1962; Gold Medal Soc. Int. d'Urologie 1947, Walker Prize, Royal Coll. of Surgeons, England 1961, Albert Lasker Award for Clinical Research 1963, Gold Medal in Therapeutics, Worshipful Soc. of Apothecaries of London 1966, Gairdner Award, Toronto 1966, Nobel Prize for Medicine 1966. *Address:* Ben May Laboratory for Cancer Research, University of Chicago, 950 East 59th Street, Chicago, Illinois 60637, U.S.A.

HUGGINS, Edwin Virgil, PH.B., LL.B.; American business executive; b. 28 Sept. 1907; ed. Yale Coll., Yale Law School; admitted to Bar, N.Y. State 1934; Assoc. Attorney, N.Y. 1932-40, Attorney, Philadelphia 1940-43; joined Westinghouse Electric Corpn. as Attorney 1943, Head New York Office Law Dept. 1945-51, Corporate Sec. 1948-51, 1954-57, Vice-Pres. 1953-61, Chair. Exec. Cttee. 1958-61, Exec. Vice-Pres. Associated Activities 1961-63, Dir. 1951-; Chair. and Dir. Westinghouse Broadcasting Co. Inc. and subsidiaries 1954-63; Exec. Dir. Metropolitan Airlines Cttee. 1966-67; Chair., Pres., Dir. Gulf States Land & Industries Inc. (now Landmark Co. Ltd.) 1968-; Dir. and mem. Exec. Cttee. Canadian Westinghouse Co. Ltd.; Dir. Canadian Westinghouse Int. Co. Ltd.; Dir. and Vice-Chair. Industria Eléctrica de México, S.A.; Pres., Trustee and mem. Exec. Cttee., Nat. Security Industrial Asscn. *Address:* 22 Canterbury Lane, Summit, N.J. 07901, U.S.A.

HUGHES, Rt. Hon. Cledwyn, P.C., C.H., LL.B.; cr. Life Peer June 1979; British politician; b. 14 Sept. 1916, Holyhead, Anglesey; s. of Rev. and Mrs. H. D. Hughes; m. Jean Beatrice Hughes 1949; one s. one d.; ed. Holyhead Grammar School and Univ. Coll. of Wales, Aberystwyth; Solicitor 1940; R.A.F.V.R. 1940-45; mem. Anglesey County Council 1946-52; M.P. Anglesey 1951, Chair. Welsh Parl. Party 1953-54, Welsh Labour Group 1955-56, mem. Cttee. of Public Accounts 1957-64; Minister of State for Commonwealth Relations 1964-66; Sec. of State for Wales 1966-68; Minister of Agric., Fisheries and Food 1968-1970; Vice-Chair. Parl. Labour Party March-Oct. 1974, Chair. 1974-79; Joint Chair. TUC—Labour Party Liaison Cttee. 1974-79; Prime Minister's emissary to Southern Africa Nov.-Dec. 1978; Pres. Univ. Coll. of Wales, Aberystwyth 1976-; Hon. LL.D. (Wales) 1970; Hon. Freedom, Beaumaris 1972, Freeman of Anglesey 1976; Labour. *Publication:* Conditions on the Island of St. Helena. *Leisure interests:* walking, reading, writing. *Address:* Swynol Le, Trearddur, Anglesey, Wales. *Telephone:* Trearddur 860544.

HUGHES, Harold Everett; American politician; b. 10 Feb. 1922, Ida Grove, Iowa; s. of Lewis C. Hughes and Etta Kelly Hughes; m. Eva M. Mercer 1941; three d.; ed. State Univ. of Iowa; engaged in transport and insurance 1946-58; mem. Iowa Commerce Comm. 1958-63, Chair 1959-60, 1961-62; Gov. of Iowa 1963-69; Senator from Iowa 1969-74; mem. Exec. Cttee. Nat. Govs. Conf. 1965-67; Chair. Democratic Govs. Conf. 1966, 1967, Midwest Democratic Conf. of Senators; mem. Senate Cttee. on Labor and Public Welfare 1969-74, on Banking and Currency 1969-71, on Armed Services 1971-74, on Veterans' Affairs 1971-74; mem. Nat. Comm. on Marihuana and Drug Abuse 1970-, Select Cttee. on Equal Educational Opportunity 1970-71; Pres. Int. Council on Alcohol and Addictions 1972-; Vice-Chair. Democratic Comm. on Party Structure and Delegate Selection 1969-72; numerous hon. degrees; Democrat. *Leisure interests:* fishing, hunting, reading, music. *Address:* 813 Carrie Court, McLean, Va. 22101, U.S.A.

HUGHES, Ted, O.B.E.; British poet; b. 17 Aug. 1930, Mytholmroyd, W. Yorkshire; m. 1st Sylvia Plath (died 1963), two d.; m. 2nd Carole Orchard 1970; ed. Cambridge Univ.; Somerset Maugham Award 1960, Int. Poetry Prize, City of Florence 1969, Queen's Medal for Poetry 1974. *Publications:* The Hawk in the Rain 1957, Lupercal 1960, Meet My Folks 1961, Selected Poems: Thom Gunn and Ted Hughes 1962, How the Whale Became 1963, The Earth Owl and Other Moon People 1963, Nessie the Mannerless Monster, Selected Poems of Keigh Douglas (Ed.) 1964, Wodwo 1967, Poetry in the Making 1967, The Iron Man 1968, Crow 1970, A Few Crows 1970, Crow Wakes 1970, Shakespeare's Poem 1971, Eat Crow 1971, Prometheus on His Crag 1973, Spring, Summer, Autumn, Winter 1974, Cave Birds 1976, Season Songs 1976, Earth-Moon 1976, Gaudete 1977. *Address:* c/o Faber & Faber, 3 Queen Square, London, W.C.1, England.

HŮLA, Václav; Czechoslovak politician; b. 21 Sept. 1925, Skryje; ed. School of Economics, Prague; Office of the Pres. of the Repub. 1948-53; Govt. Presidium 1953-65; Deputy Minister-Chair., State Comm. for Finance, Prices and Wages 1965-68; Minister in charge of State Price Office 1968; Sec. Bureau for directing Party work in the Czech lands, Cen. Cttee., CP of Czechoslovakia 1968-69; Deputy Prime Minister 1969-; Minister of Planning 1969-71; Chair. Econ. Council 1969-70, State Planning Comm. 1971-; Chair. Czechoslovak section of Czechoslovak-Soviet Comm. for Econ., Scientific and Tech. Co-operation 1975-; mem. Cen. Cttee. CP of Czechoslovakia 1969-, Alt. mem. of Presidium of Cen. Cttee. of CP of Czechoslovakia 1969-75, mem. of Presidium 1975-; Deputy to House of the People Fed. Assembly 1971-; Chair. Czechoslovak Council for Econ. Research 1976; Order of Victorious February 1973, Order of the Repub. 1975. *Address:* Office: Presidium of the Czechoslovak Government, Prague 1, nábř. kpt. Jaroše 4, Czechoslovakia.

HULL, Gen. John Edwin; American army officer; b. 26 May 1895, Greenfield, Ohio; s. of Joseph M. Hull and Mary Ann Mealey Hull; m. Sara Lucile Davis 1919; ed. Miami Univ. (Ohio), Graduate Infantry School, Command & Staff School, War coll.; commissioned U.S. Infantry 1917, served through all grades to Brig. Gen. 1945, Maj. Gen. 1948, Gen. 1951; War Dept. Gen. Staff 1942-44, Asst. Chief of Staff 1944-46; Commdg. Gen., Army Forces Pacific and Hawaiian Dept. 1946-48 (also C.O. Task Force 7 responsible for Atomic Tests at Eniwetok 1947-48); Commdg. Gen. U.S. Army Pacific 1948-49; Dir. Weapons System Evaluation, Defense Dept., Washington 1949-51; Vice-Chief of Staff 1951-53; C.-in-C. Far East Command, C.-in-C. UN Forces in the Far East and Gov. Ryukyu Islands 1953-55; Pres. Mfg. Chemists' Assn. 1955-63; Hon. LL.D. (Miami Univ., Ohio); decorations include D.S.M., Silver Star, Legion of Merit, Hon. C.B.E., Hon. D.Mil.Sc. (Pennsylvania). *Leisure interest:* golf. *Address:* 3133 Connecticut Avenue, Washington, D.C., U.S.A.

HULL, John Folliott Charles, M.A., F.B.I.M.; British banker; b. 21 Oct. 1925; s. of Sir Hubert Hull; m. Rosemarie Waring 1951; one s. three d.; ed. Downside, Jesus Coll., Cambridge; Cap. Royal Artillery 1944-48, serving with Royal Indian Artillery; called to Bar, Inner Temple 1952; J. Henry Schroder Wagg & Co. Ltd. 1957-72, 1974-, ■ Man. Dir. 1961-72, Deputy Chair. 1974-77, Chair. 1977-; Dir.-Gen. City Panel on Take-overs and Mergers 1972-74; Deputy Chair. The Land Securities Investment Trust Ltd. 1976-; Dir. Schroders Ltd. 1969-72, 1974-, Joint Deputy Chair. 1977-; Dir. Lucas Industries Ltd. 1975-, Legal and Gen. Assurance Soc. Ltd. 1976-; Chair. Bank of England's City Co. Law Cttee. 1976-; mem. Council Manchester Business School. *Leisure interests:* reading political history and 19th-century novelists, supporting Chelsea Football Club. *Address:* 33 Edwardes Square, London, W.8, England. *Telephone:* 01-603 0715.

HULL, Field-Marshal Sir Richard Amyatt, G.C.B., D.S.O., M.A., LL.D.; British army officer; b. 7 May 1907, Cosham, Hants; s. of late Major-Gen. Sir Amyatt Hull, K.C.B.; m. Antoinette de Rougemont 1934; one s. two d.; ed. Charterhouse and Trinity Coll., Cambridge; joined 17th/21st Lancers 1928; commanded 17th/21st Lancers 1941, 12th Infantry Brigade 1943, 26th Armoured Brigade 1943, 1st Armoured Div. 1944, 5th Infantry Div. 1945; Commdt. Staff Coll., Camberley 1946-48; Dir. of Staff Duties, War Office 1948-50; Chief Army Instructor, Imperial Defence Coll. 1950-52; Chief of Staff, GHQ, Middle East Land Forces 1952-54; GOC British Troops in Egypt 1954-56; Deputy C.I.G.S. 1956-58; C.-in-C. Far East Land Forces 1958-61; Chief, Imperial Gen. Staff 1961-65; ADC (Gen.) to the Queen, 1961-64; Chief of Defence Staff 1965-67; Col. Commdt. R.A.C. 1968-71; Pres. Army Benevolent Fund 1968-71; Constable H.M. Tower of London 1970-75; Deputy Lieut., Devon 1973, Lord Lieut. 1978. *Leisure interests:* fishing, shooting. *Address:* Beacon Downe, Pinhoe, Nr. Exeter, Devon, England.

HULST, Hendrik Christoffel van de, PH.D.; Netherlands astronomer; b. 19 Nov. 1918, Utrecht; m. Wilhelmina Mengerink 1946; two s. two d.; ed. Utrecht Univ.; Post-Doctoral Fellow Chicago Univ. 1946-48; Lecturer in Astronomy, Leiden Univ. 1948-52, Prof. of Astronomy 1952-; Pres. Comm. 1934 (Interstellar Matter) Int. Astronomical Union 1952-58, Nederland Astronomen Club 1953-56, Cttee. on Space Research (COSPAR) 1958-62; Chair. Netherlands Comm. for Geophysical and Space Research; Vice-Chair. European Space Research Org. (ESRO) 1960-65, Chair. 1968-70; mem. Royal Neths. Acad. of Sciences; Eddington Medal, Royal Astronomical Soc. (U.K.) 1955, Draper Medal, Nat. Acad. of Sciences (U.S.A.) 1956, Rumford Medal, Royal Soc. (U.K.) 1964. *Publications:* A Course of Radio Astronomy 1951, Phaenomenologie en Natuurwetenschap (with C. A. van Peursen) 1953, Light Scattering by Small Particles 1957; numerous articles and papers, particularly on interstellar matter. *Address:* Sterrewacht Leiden, Huygens Laboratorium, Wassenaarseweg 1978, Leiden 2405; Sterrewacht 8, Leiden, Netherlands. *Telephone:* 071-148333.

HULTON, Sir Edward George Warris, Kt.; British periodical publisher and writer; b. 29 Nov. 1906; ed. Harrow, Brasenose Coll., Oxford; Conservative candidate 1929, 1931; called to Bar Inner Temple; created Knight 1957; Freeman of the City of London; Chair. and Man. Dir. Hulton Publications Ltd. *Publications:* The New Age 1943, When I Was ■ Child 1952, Conflicts 1966. *Address:* Flat 9, 24 Carlton House Terrace, London, SW1, England.

HULUGALLE, Herbert, M.V.O.; Ceylonese company director and journalist; b. 10 March 1899, Kurunegala, Ceylon; s. of William Charles Jayetilleke and Kumarihamy Hulugalle; m. Lillian de Soysa 1926 (died 1975); five s. two d.; ed. St. Thomas' Coll., Colombo, and Ceylon Law Coll.; Ed., Ceylon Daily News 1931-48; Dir. of Information, Ceylon Govt. 1948-54; Amb. to Italy 1954-59; Chair. of Comm. on Information and Broadcasting 1966; Chair. Ceylon Advisory Bd., Grindlays Bank 1969; Grand Officer Italian Order of Merit; Knight Grand Cross of St. Silvester (Vatican). *Publications:* British Governors of Ceylon, Ceylon of the Early Travellers, Introducing Ceylon, Life and Times of D. R. Wijewardene, History of Colombo, A Guide to Ceylon, Biography of D. S. Senanayake, Sri Lanka's first Prime Minister, Ceylon Yesterday—Sri Lanka Today, A Child's Book of Ceylon Plants. *Leisure interests:* writing, gardening. *Address:* 42/7, Greenpath, Colombo 3, Sri Lanka.

HUMAIDAN, Dr. Ali; United Arab Emirates diplomatist; b. 20 Sept. 1931, Bahrain; ed. univs. of Baghdad and Paris; Deputy Rep. of Kuwait to UNESCO 1967-69; Prof. of Political Science, Univ. of Kuwait 1969-70; Legal Adviser to the Abu Dhabi Govt. 1971-72; Perm. Rep. of the United Arab Emirates to UN 1972-. *Address:* Permanent Mission of United Arab Emirates to United Nations, 747 Third Avenue, 36th Floor, New York, N.Y. 10017, U.S.A.

HUMAN, Cornelis J. F.; South African businessman; b. 6 Oct. 1922, Reitz, O.F.S.; s. of Petrus Gerhardus and Anna Susanna van Deventer Human; m. Elsie Franscina Stiglingh 1949; two s. one d.; ed. Reitz High School and Stellenbosch Univ.; joined Federale Volksbeleggings Beperk (The Federale Group) 1947, Gen. Man. 1959-66, Vice-Chair. and Man. Dir. 1966-; Dir.- Gen. Mining and Finance Corpn. Ltd., Trust Bank of Africa Ltd., Siemens Ltd., Bankorp, Sentrachem, Federale; Voedsel Ltd. (Fedfood); mem. Atomic Energy Comm.; Chair. Nat. Botanic Gardens; Trustee South Africa Nature Foundation and South African Foundation; Councillor, Univ. of Stellenbosch. *Leisure interests:* gardening, golf. *Address:* P.O. Box 2911, Johannesburg; "Arcadia", Central Avenue 81, Illovo, Johannesburg, South Africa (Home). *Telephone:* 37-2220 (Office).

HUMBLET, Antoine; Belgian politician; b. 28 Dec. 1922, Serinchamps; m.; nine c.; ed. Bagstogne, Namur and Catholic Univ. of Louvain; founder of forestry and timber enterprise, Haversin; Founder Union des Exploitants Forestiers et Scieurs du Sud-Est de la Belgique, Centre Belge du Bois; Local Councillor, Alderman, Serinchamps 1952-58; Councillor, Namur 1961-68; Founder Econ. Office of Namur Prov. 1961; mem. CERW, Vice-Pres. 1971; mem. Chamber of Reps. 1968-71, Senate 1971-; Sec. of State for Budget 1973-74; Minister of Nat. Educ., French Sector 1974-77, of Agric. and the Middle Classes 1977-79, of Walloon Affairs 1979-; Christian Social Party. *Address:* Ministry of Walloon Affairs, Brussels, Belgium.

HUME, H.E. Cardinal (George) Basil, S.T.L. (Fribourg); British teacher and ecclesiastic; b. 2 March 1923, Newcastle upon Tyne; s. of the late Sir William and Lady Hume; ed. Ampleforth Coll., York, St. Benet's Coll., Oxford, and Fribourg Univ., Switzerland, ordained ■■ Catholic priest 1950; Sr. Master in Modern Languages, Ampleforth Coll., York 1952-63, Housemaster of St. Bede's 1955-63; Prof. of Dogmatic Theology at Ampleforth Abbey 1955-63; Magister Scholarum, English Benedictine Congregation 1957-63; Abbot of Ampleforth 1963-76; Archbishop of Westminster March 1976-; cr. Cardinal May 1976; mem. Synod Council 1978-, Secr. for Christian Unity, Sacred Congregation for Religious; Hon. D.D. (Newcastle) 1979. *Publication:* Searching for God 1977. *Leisure interests:* squash, angling. *Address:* Archbishop's House, Westminster, London, S.W.1, England. *Telephone:* 01-834 4717.

HUMES, John P.; American lawyer and diplomatist b. 21 July 1921, New York; s. of Augustine L. and Elsa Portner Humes; m. Jean C. Schmidlaap 1948; six s.; ed. St. Paul's School, Concord, N.H., Princeton Univ. and Fordham Law School; admitted to N.Y. State Bar 1948; associated with Messrs. Shearman & Sterling 1948-55; Partner, Messrs. Humes, Andrews & Botzow 1956-69; Amb. to Austria 1969-75; Dir. Fiduciary Trust Co. of N.Y. 1960-69, Baker, Carver & Morrell Inc. 1960-69; Founder and Pres. The Humes Foundation Inc.; mem. Bar Assn., Int. Bar Assn. etc.; trustee or mem. numerous other orgs. *Leisure interests:* squash, travel, yachting. *Address:* 708 Third Avenue, Suite 3505, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 986-9450.

HUMO, Avdo; Yugoslav politician; b. 1914; ed. Mostar and Belgrade Univ.; mem. Fed. Exec. Council and fmr. Chair. Cttee. Nat. Devt. Plan of Fed. Exec. Council; Chair. Cttee. for Econ. Relations with Foreign Countries of Fed. Exec. Council 1962-; mem. Parl., Cen. Cttee. Yugoslav League of Communists, Fed. Cttee. for Nuclear Energy 1960-; Maj.-Gen. of Reserve; Chair. of Fed. Council for Co-ordination of Scientific Activities 1963-67; mem. of Presidency Yugoslav League of Communists 1967-69; mem. of Council of Fed. Commission of Presidency Yugoslav League of Communists for Culture 1969-; mem. of Council of Fed. Commission of Presidency Yugoslav League of Communists for Culture 1969-; mem. of Conference Yugoslav League of Communists 1969-; 1941 Partisan

Commemoration Medal, Orders of Nat. Hero, Nat. Liberation, Meritorious Service to the People, 1st Class, Bravery. *Address:* Council of Federation, Bulevar Lenjina 2, Novi Beograd, Yugoslavia. *Telephone:* 332-590.

HUMPHREY, Gilbert W.; American business executive; b. 4 July 1916, Saginaw, Mich.; s. of George Magoffin Humphrey and Pamela Stark Humphrey; m. Louise Ireland 1939; two s. one d.; ed. Yale Univ. and Yale Law School; with Jones, Day, Cockley & Reavis 1946-48; with M. A. Hanna Co. 1948-60, Pres. 1960-61, Chair. 1961-65; Dir. and Chair. of Bd., Hanna Mining Co. 1966-; Dir. and Chair. Exec. Cttee. Nat. Steel Corpn., 1968-; Dir. Sun Life Assurance Co. of Canada, Gen. Reinsurance Corpn., Gen. Electric Co., Nat. City Bank of Cleveland, Texaco Inc., and Massey-Ferguson Ltd. *Leisure interests:* golf, tennis, riding, hunting, swimming, fishing. *Address:* 100 Erieview Plaza, 36th Floor, Cleveland, Ohio 44114, U.S.A. *Telephone:* 216-523-3030.

HUMPHREY, John Peters, O.C., B.COM., B.A., B.C.L., PH.D.; Canadian international official and university professor; b. 30 April 1905, Hampton, New Brunswick; s. of Frank M. Humphrey and Nellie Peters; m. Jeanne Godreau 1929; ed. Rothesay Coll., Mount Allison Univ., McGill Univ. and Univ. de Paris; called to Montreal Bar 1929, practised law with Wainwright, Elder & McDougall 1930-36; Lecturer in Roman Law, McGill Univ. 1936, Sec. of Law Faculty 1937-46, Gale Prof. of Roman Law and Dean of Law Faculty 1946, Prof. of Law and Political Science 1966-71; Visiting Prof., Law Faculty, Univ. of Toronto 1971-72; Carnegie Fellow in Int. Law, Paris 1936-37; Dir. Div. of Human Rights, UN Secr. 1946-66; Exec. Sec. UN Conf. on Freedom of Information 1948, Refugees 1951, Status of Stateless Persons 1954, Slavery Conf. 1956; Prin. Sec. UN Fact-Finding Mission to S. Viet-Nam 1963; Nat. Pres. UN Assn. in Canada 1968-70, Hon. Vice-Pres. 1967-68, Hon. Pres. Montreal Branch 1966-68, Pres. 1945-46; mem. UN Sub-Comm. on Prevention of Discrimination and Protection of Minorities 1966, Chair. 1970; Rapporteur, Cttee. on Human Rights, Int. Law Assn. 1966-78; Pres. Canadian Comm., Int. Year for Human Rights 1968; mem. Int. Comm. of Jurists, Royal Comm. on Status of Women in Canada, Canadian Council of Int. Law, Int. Law Assn., Canadian Inst. of Int. Affairs; mem. Bd. of Dirs. Int. League for Rights of Man; Pres. Canadian Foundation for Human Rights; Pres. Amnesty Int. (Canada) 1973-76; Hon. LL.D. (Carleton) 1968, Hon. Dr. Soc. Sciences (Ottawa) 1966, Hon. LL.D. (St. Thomas) 1971, (Dalhousie) 1975, (McGill) 1976, Dr. h.c. (Univ. of Algiers) 1944, Hon. D.C.L. (Mount Allison) 1977; World Jewish Congress Citation 1966, World Legal Scholar award, World Peace Through Law Center 1973, John Read Medal, Canadian Council of Int. Law 1973, Officer, Order of Canada 1974. *Publications:* The Inter-American System: A Canadian View 1942, and articles in American, British and Canadian periodicals on international, political and legal subjects. *Address:* 1455 Sherbrook Street West, Montreal, P.Q., Canada.

HUMPHREYS, Christmas (*see* Humphreys, (Travers) C.).

HUMPHREYS, David Colin, C.M.G., M.A. (CANTAB.); British civil servant; b. 23 April 1925, Sunningdale, Berks.; s. of Charles Roland L. and Joan Bethia Humphreys (née Bowie); m. Jill Allison Cranmer 1952; two s. one d.; ed. Eton Coll., King's Coll., Cambridge; British Army 1943-46; joined Air Ministry 1949; Private Sec. to Sec. of State for Air 1958; Counsellor U.K. Del., NATO 1960; Asst. Sec. Air Force Dept., London 1963; Imperial Defence Coll. 1970; Civilian Dir. Defence Policy Staff 1971; Asst. Sec.-Gen. Defence Planning and Policy, NATO 1972-76; Asst. Under-Sec. (Naval Staff) Ministry of Defence 1977-78; Asst. Under-Sec. (Air Staff) 1979-. *Leisure interests:* tennis, gardening. *Address:* Rivendell, North Drive, Virginia Water, Surrey, England. *Telephone:* Wentworth 2130.

HUMPHREYS, Sir Olliver William, Kt., C.B.E., B.SC., F.INST.P., C.ENG., F.I.E.E., F.R.AE.S.; British physicist; b. 4 Sept. 1902, London; s. of late Rev. J. Willis Humphreys; m. Muriel Mary Hawkins 1933; ed. Univ. Coll., London Univ.; joined scientific staff of the G.E.C. Research Labs. 1925; Dir. G.E.C. Research Labs. 1949-61; Dir. G.E.C. 1953-69, Vice-Chair. 1962-68; Chair. G.E.C. (Research) 1962-68; mem. Bd. Assoc. Semiconductor Mfrs. Ltd. 1962-69; mem. Bd. of Trade Cttee. on the Org. and Constitution of the British Standards Inst. 1949-50; mem. Bd. of Inst. of Physics 1951-59 and Pres. 1956-58; mem. British Standards Inst. Gen. Council 1953-56, and mem. of Exec. Cttee. 1953-60; mem. Council Inst. Electrical Engineers 1952-55, Vice-Pres. 1959-64, Pres. 1964-65; Chair. D.S.I.R. Radio Research Board 1957-62; Chair. Int. Special Cttee. on Radio Interference 1953-61; mem. British Nat. Cttee. of the Int. Electrotechnical Comm.; mem. of Bd. of British Nuclear Energy Conf. 1955-58; Chair. Council of British Electrical and Allied Industries Research Assn. 1958-61; Pres. Electrical Eng. Assn. 1962-64; Chair. Conf. of Electronics Industry 1963-68; mem. Nat. Electronics Research Council 1963-68; Fellow of Univ. Coll., London 1963. *Publications:* include lectures and papers on scientific and engineering subjects. *Leisure interests:* reading, walking. *Address:* The Penthouse, Teak Close, Branksome Park, Poole, Dorset, England. *Telephone:* Bournemouth 766195.

HUMPHREYS, (Travers) Christmas, Q.C.; British lawyer; b. 15 Feb. 1901; m. Aileen Maude Faulkner 1927; ed. Malvern Coll., Trinity Hall, Cambridge; Jr. Counsel to Treasury 1932; Jr. Counsel to Treasury at Cen. Criminal Court 1934; Recorder of Deal 1942-56; Sr. Prosecuting Counsel to the Crown at Cen. Criminal Court 1950-59; Recorder of Guildford 1956-68; Judge, Cen. Criminal Court 1968-76; Founder, Pres. Buddhist Lodge, London (now Buddhist Soc.) 1924; Pres. The Shakespearean Authorship Soc. 1955. *Publications:* The Great Pearl Robbery of 1913 1928, What is Buddhism? 1928, Concentration and Meditation 1935, The Development of Buddhism in England 1937, Studies in The Middle Way 1940, Poems of Peace and War 1941, Seagulls, and other Poems 1942, Karma and Rebirth 1943, Shadows and other Poems 1945, Walk On! 1947, Via Tokyo 1948, Zen Buddhism 1949, The Way of Action 1960, Zen Comes West 1960, The Wisdom of Buddhism 1960, Poems I Remember 1960, A Popular Dictionary of Buddhism 1962, Zen, A Way of Life 1962, The Buddhist Way of Life 1969, Buddhist Poems 1971, A Western Approach to Zen 1972, Exploring Buddhism 1974, The Search Within 1977, Both Sides of the Circle (Memoirs) 1978. *Address:* 58 Marlborough Place, London, N.W.8, England.

HUND, Friedrich, DR. PHIL; German physicist; b. 4 Feb. 1896, Karlsruhe; m. Dr. Ingeborg Seynsche 1931, five c. Asst. Prof., Göttingen Univ. 1925; Extraordinary Prof., Rostock Univ. 1927 and Prof. 1928; Prof. of Mathematical Physics, Leipzig Univ. 1929-46; Prof. of Theoretical Physics, Jena Univ. 1946-51; Prof. of Theoretical Physics, Frankfurt (Main) Univ. 1951-56; Prof. of Theoretical Physics, Göttingen Univ. 1956-64, Emer. 1964-; mem. Acad. of Sciences, Göttingen; Dr. phil. nat. h.c., Dr.phil. h.c. (Uppsala). *Publications:* on quantum theory of atoms, molecules and solids: Linienspektren 1927, Einführung in die theoretische Physik (5 vols.) 1945-50, Materie als Feld 1954, Theoretische Physik (3 vols.) 1956-57, Theorie des Aufbaues der Materie 1961, Geschichte der Quanten-Theorie 1967, Grundbegriffe der Physik 1969, Geschichte der physikalischen Begriffe 1972. *Leisure interest:* history of physics. *Address:* Charlottenburgerstrasse 19, D3400 Göttingen, Federal Republic of Germany. *Telephone:* (0551) 7901-2009.

HUNDERTWASSER, Friedensreich (Friedrich Stowasser); Austrian artist; b. 15 Dec. 1928, Vienna; s. of Ernst and Elsa Stowasser; m. 1st 1958 (dissolved 1960), 2nd Yuko Ikewada 1962 (dissolved 1966); first one-man exhbn. at Art Club, Vienna 1952; evolved theory of "Transautomatism" and began numbering his paintings, developed this theory into a "Grammar of Vision"; exhbns. at Galerie H. Kamer, Paris 1957-60, at galleries in Milan, Tokyo, at Venice Biennale, etc.; travelling exhbn. Austria presents Hundertwasser to the Continents 1975-; Lecturer Kunsthochschule, Hamburg 1959; Prix du Syndicat d'Initiative, Bordeaux, Sanbra Prize, São Paulo Biennale 1959, Mainichi Prize, Sixth Int. Art Exhbn., Tokyo 1961. *Publications:* issued manifestos: Mouldiness Manifesto: Against Rationalism in Architecture 1958, Individual Building Alteration Law and Architecture Boycott Manifesto 1968, Your Right to Windows—your Duty to the Trees 1972. *Address:* P.O.B. 145, A 1013 Vienna. *Telephone:* 22522.

HUNLÉDÉ, Ayi Houénou, L. en D.; Togolese politician; b. 2 Feb. 1925, Anécho; ed. Univ. of Montpellier, France. Asst. Insp. of schools, Northern Togo, then teacher at Ecole Normale d'Atakpamé 1953-56; worked for French Overseas Territories Admin. 1958; Asst. Admin. Mayor, Lomé; Chief, admin. subdivision of Tabligbo; Admin. Mayor of Tsévié 1958-60; Amb. to France, U.K., EEC 1960-65; High Commr. for Planning 1965-67; Minister of Foreign Affairs 1967-76; ordained pastor in Togolese Evangelical Church Aug. 1977; Commdr. Légion d'honneur, Great Cross of Merit (Fed. Repub. of Germany), Commdr. Order of Liberia. *Address:* c/o Ministère des Affaires Etrangères, Lomé, Togo.

HUNOLD, Albert Conrad; Swiss business and public executive; b. 4 July 1899, Zürich; s. of Albert Hunold and Elisabeth Lang; m. 1st Frieda von der Osten 1939 (divorced 1949), two s.; m. 2nd Berta Menet 1954 (died 1955), one d.; m. 3rd Maximiliane Braunschmidt 1958, one s. two d.; ed. Univs. of Zurich, Geneva and London; Sec. Zurich Stock Exchange Assn. 1930-45; Sec. Assn. of Zurich Insts. of Credit 1939-45; Joint Dir. Crédit Suisse 1945-46; Marketing Dir. Swiss Fed. of Watch Mfrs. 1947-49; Co-Founder and Sec. of the Mont Pèlerin Soc. 1947-60, Vice-Pres. 1960-62; Founder and exec. mem. Bd. Swiss Inst. of Int. Studies, Zurich 1950-66; Founder and Exec. Vice-Pres. William Röpke Foundation 1966-; *Publications include:* The Swiss Stock Exchanges (in German) 1949, The Industrial Development of Switzerland (in English, Italian and Spanish)

1954, Social Peace in Switzerland 1964; edited Full Employment, Inflation and Planning 1951, Economy without Miracles 1953, Convertibility of European Currencies 1954, The Free World in the Cold War 1955, The Problem of the Masses in Democracy 1956, Education for Freedom 1958, Undeveloped Countries 1961, Latin America—Land of Trouble and of Future 1962, Inflation and International Monetary Order 1963, Africa and its Problems 1965 (all in German). *Address:* 9056 Gais-Zwislen AR, Switzerland. *Telephone:* (071) 932188.

HUNT, Baron (Life Peer), cr. 1966, of Llanfair Waterdine; **John Hunt** (brother of Hugh Hunt, *q.v.*), Kt., K.G., C.B.E., D.S.O.; British army officer, mountaineer and administrator; b. 22 June 1910; ed. Marlborough Coll. and Royal Mil. Coll., Sandhurst; took part in expeditions to Karakoram 1935 and to S.E. Himalayas 1937 and 1940; led British Expedition to Mount Everest, when Hillary and Tenzing reached the summit on May 29th 1953; British Expedition to Caucasus 1958, to N.E. Greenland 1960; British-Soviet Expedition to the Pamirs 1962; Canadian Centennial Expedition in St. Elias Mountains 1967; Asst. Commdt. Staff College, Camberley 1953-55; Pres. The Alpine Club 1956-58; Chair. Mount Everest Foundation 1956-57; Pres. British Mountaineering Council 1965-68, Nat. Ski Fed. of G.B. 1969-72; Dir. The Duke of Edinburgh's Award Scheme 1956-66; Rector, Aberdeen Univ. 1963-66; Chair. Parole Bd. 1968-74, Advisory Cttee. on Police forces in Northern Ireland; Personal Rep. of British Prime Minister in Nigeria 1968, 1970; Pres. Council for Volunteers Overseas 1968-74, Nat. Assn. of Probation Officers 1974-, The Royal Geographical Soc. 1977-; mem. Royal Comm. on the Press 1974-77; Hon. D.C.L. (Durham, Leeds, City Univ.), Hon. LL.D. (Aberdeen and London); Indian Police Medal; Indian Everest Medal; Founder's Medal of Royal Geographical Soc.; Order (1st Class) of Gurkha Right Hand of Nepal. *Publications:* The Ascent of Everest 1953, Our Everest Adventure 1954, The Red Snows (with Christopher Brasher) 1960, My Favourite Mountaineering Stories 1978, Life is Meeting 1978. *Address:* Highway Cottage, Ashton, Henley-on-Thames, England.

HUNT, Sir David Wathen Stather, K.C.M.G., O.B.E.; British diplomatist; b. 25 Sept. 1913, Durham; s. of Canon B. P. W. Stather Hunt and Elizabeth Milner; m. 1st Pamela Medawar 1948, and Iro Myrianthousi 1968; two s.; ed. St. Lawrence Coll., Ramsgate and Wadham Coll., Oxford; served in the Middle East, Greece, N. Africa and Italy during the Second World War; Commonwealth Relations Office 1947-, service in S. Africa, Pakistan, Nigeria 1947-50, 1952-62; Deputy High Commr., Lagos, Nigeria 1960-62; Private Sec., Office of the British Prime Minister 1950-52, 1960; British High Commr. in Kampala, Uganda 1962-65, in Nicosia, Cyprus 1965-66, in Lagos, Nigeria 1967-69; Amb. to Brazil 1969-73; Chair. Commonwealth Inst.; mem. Appointments Comm. of Press Council 1977; Ed. The Times Yearbook of World Affairs 1978. *Publications:* A Don at War 1966, On the Spot 1975. *Leisure interests:* golf, history, sailing. *Address:* Old Place, Lindfield, Sussex, England.

HUNT, Gilbert Adams, C.B.E., C.ENG., M.I.BRIT.F., F.I.PROD.E., C.I.MECH.E.; British engineer and motor executive; b. 1914, Wolverhampton; s. of Harold W. Hunt; m. Diane R. Cook 1975; ed. Old Hall School, Wellington and Malvern Coll.; Dir. Gen. Man. High Duty Alloys 1954-60; Man. Dir. Massey-Ferguson (U.K.) Ltd. 1960-67; Chair. Massey-Ferguson (Farm Services) Ltd.; Chair. and Man. Dir. Massey-Ferguson (Eire) Ltd., Joint Man. Dir. Massey-Ferguson Holdings Ltd.; Man. Dir. and Chief Exec. Officer, Chrysler United Kingdom Ltd. 1967-73, Chair. 1973-79, Pres. Jan. 1979-; Dir. Chrysler Int. S.A., Chrysler Scotland Ltd., Chrysler Ireland Ltd., Chrysler France S.A. and Chrysler España S.A.; Dir. Reed Group Ltd. 1968-75; Chair. Emerald Offshore Services Ltd. 1975-; Chair. Gov. Cttee. for Industrial Technologies 1972-; Pres. Soc. of Motor Mfrs. and Traders 1972-73; Hon. D.Sc. (Cranfield). *Leisure interests:* golf, sailing. *Address:* 6 Lowndes Square, London, S.W.1, England.

HUNT, Hugh Sydney (brother of Lord Hunt, *q.v.*), C.B.E., M.A.; British theatrical director; b. 25 Sept. 1911, Camberley; s. of Capt. C. E. Hunt, M.C. and Ethel Helen (née Crookshank); m. Janet Mary Gordon 1940; one s. one d.; ed. Marlborough Coll., Sorbonne, Heidelberg Univ. and Magdalen Coll., Oxford; Producer, Maddermarket Theatre, Norwich 1934, Croydon Repertory Theatre 1934, Abbey Theatre, Dublin 1935-38; served Second World War 1939-45; directed Bristol Old Vic Co. 1945-49; Dir. Old Vic Co. 1949-53; Dir. Elizabethan Theatre Trust, Sydney, Australia 1955-60; Prof. of Drama, Univ. of Manchester 1961-73; Artistic Dir., Abbey Theatre, Dublin 1969-71; Vice-Pres. Int. Fed. for Theatre Research 1969-74. *Publications:* Old Vic Prefaces, The Director in the Theatre 1934, The Making of Australian Theatre 1960, The Living Theatre 1961, The Revel's History of Drama in English, vol. vii, 1880 to the Present Day. *Leisure interest:* travel. *Address* Cae Terfyn, Criccieth, Caerns. LL52 0SA, Wales. *Telephone:* Criccieth 2528.

HUNT, James B., Jr., M.S., J.D.; American politician; b. 16 May 1937, Greensboro, N.C.; s. of James B. Hunt and Elsie Beame Hunt; m. Carolyn Joyce Leonard 1958; one s. three d.; ed. North Carolina State Univ. and Law School; Nat. Coll. Dir. Democratic Nat. Cttee. 1962-63; Ford Foundation Econ. Adviser to Nepal 1964-66; Attorney at Law, Wilson, N.C. 1966-72; Asst. Chair. N.C. Democratic Party 1969; Lieut.-Gov. of N.C. 1973-77, Gov. of North Carolina 1977-; Harry Truman Award, Young Democratic Clubs. *Publications:* Rally Around the Precinct 1969. *Leisure interests:* sports, reading. *Address:* Office of the Governor, Raleigh, N.C. 27611; Route 1, Box 138, Lucama, N.C. 27851, U.S.A. (Home).

HUNT, James Simon Wallis; British racing driver; b. 29 Aug. 1947, Surrey; s. of Wallis Hunt and Susan (née Davis) Hunt; m. Susan Miller 1974 (divorced); ed. Wellington Coll., Crowthorne, Berks.; joined Lord Hesketh's Formula One Grand Prix team 1973; raced in Monaco Grand Prix 1973; winner of Netherlands Grand Prix 1975; joined McLaren team for 1976 season; World Champion Driver 1976; Golden Shield (Royal Swedish Automobile Club) 1978. *Leisure interests:* golf, tennis, backgammon, squash, music. *Address:* James Hunt Racing (U.K.) Ltd., 7 Chandos Street, Cavendish Square, London, W.1, England. *Telephone:* 01-637 5377.

HUNT, Sir John Joseph Benedict, G.C.B.; British civil servant; b. 23 Oct. 1919, Minehead; s. of Major and Mrs. A. L. Hunt; m. 1st Magdalen Mary Lister Robinson 1941 (died 1971), 2nd Madeleine Frances Charles 1973; two s. one d.; ed. Downside School and Magdalene Coll., Cambridge; served in R.N.V.R. 1940-46; joined Home Civil Service (Dominions Office) 1946; Private Sec. to Parl. Under-Sec. 1947; Second Sec., Colombo 1948-50; Directing Staff, Imperial Defence Coll. 1951-52; First Sec., Ottawa 1953-56; Private Sec. to Sec. of Cabinet and Head of Civil Service 1956-58; Asst. Sec. Commonwealth Relations Office 1958-60; Cabinet Office 1960-62; H.M. Treasury 1962-67, Under-Sec. 1965; First Civil Service Commr. 1968-71; Third Sec. Treasury 1971-72; Second Permanent Sec., Cabinet Office 1972-73; Sec. of the Cabinet 1973-. *Leisure interests:* reading, skiing, gardening. *Address:* Cabinet Office, Whitehall, London, S.W.1, England.

HUNT, Gen. Sir Peter Mervyn, G.C.B., D.S.O., O.B.E., F.B.I.M.; British army officer (retd.); b. 11 March 1916, London; s. of H. V. Hunt; m. 1st Anne Stopford 1940 (died 1966); m. 2nd Susan Baird 1978; one s. one d.; ed. Wellington Coll. and Royal Military Coll., Sandhurst; commissioned 1936; served World War II 1939-45; graduated, Command and Gen. Staff School, Fort Leavenworth, U.S.A. 1948; Instructor, Staff Coll., Camberley, U.K. 1952-55 and Imperial Defence Coll. 1956-57; Commdr. Land Forces, Borneo and Maj.-Gen. Brigade of Gurkhas 1964-65; Commdt., Royal Mil. Acad., Sandhurst 1966-68; Commdr., Far East Land Forces 1968-70; Commdr., Northern Army Group (NATO) and C.-in-C., British Army of the Rhine 1970-73; Chief of the Gen. Staff, U.K. 1973-76; ADC to H.M. Queen Elizabeth II 1973-76; Order of Léopold II and Croix de guerre (Belgium) 1940, Officer, Order of St. John of Jerusalem 1978. *Leisure interests:* travel, photography, philately. *Address:* c/o Williams and Glyn's Bank, Holt's Branch, Whitehall, London, S.W.1; Naval and Military Club, Piccadilly, London, W.1, England.

HUNTER, Sir (Ernest) John, Kt., C.B.E., D.SC., D.L.; British shipbuilder; b. 3 Nov. 1912, Newcastle upon Tyne; s. of George Ernest Hunter and Elsie Hunter (née Edwards); m. 1st Joanne Winifred Wilkinson 1937, 2nd Sybil Malfroy (née Gordon); two s. one step d.; ed. Oundle School and Cambridge and Durham Univs.; apprentice, Swan, Hunter & Wigham Richardson, 1930-35, Drawing and Design Offices, Wallsend 1935-37, Asst. Man., Dry Docks Dept. Swan, Hunter & Wigham Richardson, Ltd. 1939-41, Asst. Gen. Man. 1941-43, Gen. Man. 1943-57, Dir. 1945-, Chair. 1957-66; Chair. Swan Hunter Group Ltd. 1966-72, Exec. Chair. 1972-79; Barclay, Curle & Co. Ltd. 1937-39; Chair. North East Broadcasting Co. Ltd.; Dir. Midland Bank Ltd., Newcastle & Gateshead Water Co.; Dir. many other cos.; Pres. Shipbuilding Employers' Fed. 1956-57; Pres. British Employers' Confederation 1962-64; Chair. Cen. Training Council 1964-68; Shipbuilders' and Repairers' Nat. Assn. 1968-70. *Leisure interests:* golf and gardening. *Address:* "The Dene", Stocksfield, Northumberland, England. *Telephone:* Stocksfield 3124.

HUNTER, Evan, B.A.; American author; b. 15 Oct. 1926, New York; s. of Marie and Charles Lombino; m. 1st Anita Melnick 1949, three s.; m. 2nd Mary Vann Finley 1973, one step d.; ed. Cooper Union and Hunter Coll.; *Publications:* The Blackboard Jungle 1954, Second Ending 1956, Strangers When We Meet 1958 (screenplay 1959), A Matter of Conviction 1959, Mothers and Daughters

1961, The Birds (screenplay) 1962, Happy New Year, Herbie 1963, Buddwing 1964, The Easter Man (play) 1964, The Sentries (as Ed McBain) 1965, The Paper Dragon 1966, A Horse's Head 1967, Last Summer 1968, Sons 1969, The Conjurer (play) 1969, Nobody Knew They Were There 1971, Every Little Crook and Nanny 1972, The Easter Man 1972, Come Winter 1973, Streets of Gold 1974, 87th Precinct Mysteries under pseudonym Ed McBain: Cop Hater 1956, The Mugger 1956, The Pusher 1956, The Con Man 1957, Killer's Choice 1957, Killer's Payoff 1958, Lady Killer 1958, Killer's Wedge 1959, 'Til Death 1959, King's Ransom 1959, Give the Boys a Great Big Hand 1960, The Heckler 1960, See Them Die 1960, Lady, Lady, I Did It 1961, Like Love 1962, The Empty Hours (three novelettes) 1962, Ten plus One 1963, Ax 1964, He Who Hesitates 1965, Doll 1965, Eighty Million Eyes 1966, Fuzz 1968 (screenplay 1972), Shotgun 1969, Jigsaw 1970, Hail, Hail, The Gang's All Here 1971, Sadie When She Died 1972, Let's Hear It for the Deaf Man 1972, Hail to the Chief 1973, Bread 1974, Where There's Smoke 1975, Blood Relatives 1975. *Leisure interests:* skiing and snorkeling. *Address:* c/o Scott Meredith Literary Agency Inc., 845 Third Avenue, New York, N.Y. 10022, U.S.A.

HUO SHIH-LIEN; Chinese politician; Minister of Agriculture 1979-. *Address:* People's Republic of China.

HUO SHIH-WEN; Chinese party official; Deputy Gov., Chekiang 1954-68; Sec. CCP Chekiang 1957-66; First Sec. CCP Shensi 1966-68; Sec. Northwest Bureau CCP 1966; criticized and removed from office during Cultural Revolution 1967; Sec. CCP Shensi 1973; First Sec. CCP Ninghsia and Chair. Ninghsia Revolutionary Cttee. 1977; mem. 11th Cen. Cttee. CCP 1977; First Political Commissar Ninghsia Mil. District PLA 1978-. *Address:* People's Republic of China.

HUONG, Tran Van (*see* Tran Van Huong).

HURÉ, Francis, L. ès L.; French diplomatist; b. 5 Oct. 1916, Abbeville, Somme; s. of Dr. Louis Huré and Marthe Dupont; m. Jacqueline Félici 1947; one d.; ed. Faculté des lettres de Paris and Ecole libre des sciences politiques; in Algiers 1943; Attaché, French Embassy in Moscow 1944-45; Foreign Office, Paris 1945-46, 1950; First Sec., Tokyo 1947-49; Adviser French Del. to UN 1953; Counsellor, London 1954-58; Chargé d'affaires, Guinea 1959; Amb. to Cameroon 1965-68, to Israel 1968-73, to Belgium 1973-; Prix Cazes 1963; Officier Légion d'honneur. *Address:* Ambassade de France, 65 rue Ducale, B-1000 Brussels, Belgium; 5 boulevard Jean-Mermoz, Neuilly-sur-Seine, France; and Marine de Pino, Corsica.

HURIAUX, Charles; Belgian executive; b. 22 Sept. 1911, Arlon; ed. Univ. of Liège; Councillor, Société Générale de Belgique 1969-; Gov., Banque National de Belgique 1971; Vice-Chair. (in charge of Special Functions), S.A. Cockerill-Ougrée-Providence et Espérance-Longdoz "Cockerill"; Admin. of numerous industrial and commercial socs.; Chevalier Ordre de la Couronne; Officier Ordre de Léopold II; Officier Ordre de Léopold; Officier Ordre du Mérite de la République italienne. *Address:* S.A. "Cockerill", ave. Adolphe Greiner 1, B-4100 Seraing, Belgium. *Telephone:* Liège 34-08-10 and 34-28-10.

HÜRLIMANN, Hans, LL.D.; Swiss lawyer and politician; b. 6 April 1918, Walchwil, Zug; m. Marie Theres Duft 1947; two s. one d.; ed. Univs. of Fribourg and Berne; Barrister, Zug 1946; Legal Adviser, Zug 1946, Town Clerk 1949; mem. Legis. Chamber, Zug Canton 1946, mem. Cantonal Govt. as Head of Dept. of Justice, Police and Mil. Affairs 1954-62, of Educ., Cultural and Mil. Affairs 1962-73; mem. Council of States 1966-73; mem. Fed. Council as Head of Dept. of Home Affairs 1974-, Vice-Pres. Jan.-Dec. 1978, Pres. Jan. 1979-; Chair. Conf. of Heads of Cantonal Mil. Depts. 1960-68, Conf. of Heads of Cantonal Educ. Depts. 1968-73; mem. Council of Swiss Fed. Insts. of Tech. 1970-73; fmr. mem. Exec. Bd., Christian-Democratic People's Party. *Publications:* Das Recht der Stadtgemeinde Zug, and many publications on juridical, educational and military topics. *Leisure interests:* music, books, theatre, skiing, hiking. *Address:* Department of Home Affairs, Bundeshaus, Inselgasse, 3003 Berne; Schönbühl 3, 6300 Zug, Switzerland. *Telephone:* (042) 21-24-10.

HÜRLIMANN, Martin, D.PHIL.; Swiss publisher and writer; b. 12 Nov. 1897; m. Bettina Kiepenheuer 1933; two s. two d.; ed. Univs. of Zürich, Leipzig and Berlin; founded the Atlantis Verlag 1930; fmr. Dir. of Atlantis Verlag. *Publications:* consist of a series Orbis Terrarum, France 1927, India 1928, 1966, Indochina 1928, Germany 1931, Switzerland 1931, 1971, France 1937, Paris 1951, Spain 1951, Italy 1951, Athens 1956, London 1956, Istanbul 1957, Europe 1957, Moscow and Leningrad 1958, Traveller in the Orient 1960, Kyoto 1961, Hongkong 1962, Bangkok 1963, Delhi 1964, The World 1965, Vienna 1968, Japan 1971. *Leisure interest:* chamber music. *Address:* Witellikerstrasse 9, 8702 Zollikon, Zürich, Switzerland.

HURTER, Johannes Albertus; South African banker; b. 2 Sept. 1908, Riversdale, Cape Province; s. of late Douw G. and P. (Theunissen) Hurter; m. Rykie Elizabeth Theunissen 1936; two s. two d.; ed. Riversdale High School; joined Volkskas Ltd. 1942, Man. Johannesburg 1950-52, Credit Man. 1952-53, Asst. Gen. Man. 1953-54, Gen. Man. 1954, now Chair. Bd.; Dir. Asscn. Royal Coll. of Preceptors, ACP Investments Ltd., London, Nat. Bldg. Soc., Saambou, Bonuskor Investments Ltd., Industrial Devt. Corpn. Ltd., United Car & Diesel Distributors (Pty) Ltd., Nat. Financial Corpn.; Hon. D.Comm. *Leisure interests:* golf, angling, farming. *Address:* 11 Bramley Road, Waterkloof, Pretoria; P.O. Box 578, Pretoria, South Africa. *Telephone:* 413311.

HURWITZ, Jerard, PH.D.; American research scientist; b. 20 Nov. 1928, New York; ed. Coll. of City of New York, Indiana Univ. and Western Reserve Univ., Cleveland, Ohio; Research Asst., Dept. of Biochemistry, Western Reserve Univ. 1949-50; Instructor in Microbiology, Washington Univ., St. Louis 1956-58; Asst. Prof. in Microbiology, New York Univ. School of Medicine 1958-60, Assoc. Prof. of Microbiology 1960-63; Prof. of Molecular Biology, Albert Einstein Coll. of Medicine, New York 1963-65, Prof. Developmental Biology and Cancer 1965-; Brown-Hazen Lectureship 1972; mem. Biochemical Soc. of England, American Soc. of Biological Chemists, Nat. Acad. of Sciences 1974; Fellow, New York Acad. of Sciences 1977; American Cancer Soc. Research Prof.; Eli Lilly Award in Biochemistry 1962, Charles Mickle Fellowship Award of Canada 1967, Guggenheim Fellowship Award 1968. *Address:* Department of Developmental Biology and Cancer, Albert Einstein College of Medicine, Yeshiva University, 1300 Morris Park Avenue, Bronx, New York, N.Y. 10461, U.S.A. *Telephone:* (212) 430-3127.

HUSAIN, Akhter, O.B.E., H.PK.; Pakistani administrator; b. 1902, Burhanpur; s. of Mian Bhai and Zainab; m. Sakina 1924; three s. one d.; ed. Hakimia High School, Burhanpur, M.A.O. Coll., Aligarh, and St. John's Coll., Cambridge; appointed to Indian civil service in Punjab 1926; various admin. posts 1930-43; Sec. Post-War Reconstruction Dept. 1944; Chief Sec. Govt. Punjab 1946-47; Financial Commr. and Sec. to Govt., West Punjab 1947-53; mem. Tenancy Inquiry Cttee. 1951, Liaquat Ali Assassination Inquiry Cttee. 1951; special duty at Karachi for reorganization of Karachi Admin. 1951; Chair. Lord Boyd Orr's Expert Cttee. 1953; Sec. Ministry of Defence, Govt. Pakistan 1953-57; Chair. Karachi Admin. Cttee. 1955; Gov. West Pakistan 1957-60; Minister of Information, Nat. Reconstruction and Kashmir Affairs 1960, of Kashmir Affairs 1960-61, of Educ. and Scientific Research, Minority Affairs 1961-62; Chair. Land Reforms Comm. 1958, Land Comm. and Provincial Admin. Comm. 1959; Chief Election Commr. (Pakistan) 1962-64; Chair. Nat. Press Trust 1965, Investment Corpn. of Pakistan 1966; mem. Advisory Council of Islamic Ideology; Dir. Agric. Devt. Bank of Pakistan 1967-70; Chair. Water Allocation and Rate Cttee. of W. Pakistan 1968-70, Karachi Admin. and Metropolitan Cttee., Soc. for the Promotion of Urdu Language 1962, Pakistan Paper Products Ltd., Pakistan Burmah Shell Ltd. 1969-, Pakistan Diabetic Assn. 1972; Hon. LL.D. (Punjab Univ.). *Leisure interests:* farming and gardening. *Address:* 29A Sunset Boulevard, Defence Housing Society, Karachi, Pakistan. *Telephone:* 541327.

HUSAIN, Maqbool Fida; Indian painter; b. 17 Sept. 1915, Sholapur, Maharashtra State; s. of Fida and Zainub Husain; m. Fazila Abbasi 1943; four s. two d.; joined Progressive Artists Group, Bombay 1948; first one-man exhbn., Bombay 1950, later at Rome, Frankfurt, London, Zürich, Prague, Tokyo, New York, New Delhi, Calcutta, Kabul and Baghdad; mem. Lalit Kala Akademi, New Delhi 1954, Gen. Council Nat. Akademi of Art, New Delhi 1955; First Nat. Award for Painting 1955; Int. Award, Biennale Tokyo 1959. *Major works:* Murals for Air India Int. at Hong Kong, Bangkok, Zürich and Prague 1957, and WHO Building, New Delhi 1963; Mural in Mosaic for Lever Bros. and Aligarh Univ. 1964; High Ceramic Mural for Indian Govt. Building, New Delhi; Exhibitor "Art now in India" exhbn., London 1967. *Publications:* Husain's Letters 1962, Husain 1971, Poetry to be seen 1972, Triangles 1976. *Film:* Through the Eyes of the Painter 1967 (Golden Bear Award, Berlin 1967). *Address:* 5 Goorishina, 12 Souter Street, Bombay 400008, India.

HUSAIN, Mohammed Azim, M.A., BAR.-AT-LAW; Indian diplomatist; b. 5 Oct. 1913, Batala, India; s. of Sir Fazl-i-Husain, Kt., K.C.I.E., K.C.S.I.; m. Nusrat Malik 1945; one s. two d.; ed. Govt. Coll., Lahore, Christ's Coll., Cambridge, Univ. Coll., Oxford, and Lincoln's Inn, London; Indian Civil Service in the Punjab 1937-42; Under-Sec. Ministry of Defence 1942-44; Deputy Sec. Ministry of Information and Broadcasting 1945-48; Ministry of External Affairs 1948-52; Consul-Gen., San Francisco 1952-54; Joint Sec. Ministry of External Affairs 1954-57; Deputy High Commr. to U.K. 1957-60; Amb. to U.A.R., Yemen, Lebanon, Libya 1960-64; Additional Sec.

and Foreign Service Insp., Ministry of External Affairs 1964-65, Sec. 1965-67; Amb. to Switzerland and the Holy See, and leader Indian del. to Disarmament Conf., Geneva, 1967-70; del. to various UN, UNESCO, Afro-Asian, Commonwealth and Non-Aligned Confs.; Deputy Sec.-Gen. Commonwealth Secr. 1970-78. *Publications include:* Panchayats in the Punjab 1942, Fazli-Husain: A Political Biography 1946. *Leisure interests:* photography, history, literature. *Address:* c/o Ministry of Foreign Affairs, New Delhi, India.

HUSÁK, Gustáv, JUR.DR., C.SC.; Czechoslovak politician; b. 10 Jan. 1913, Bratislava; m. Viera Husák (died 1977); ed. Law Faculty, Comenius Univ., Bratislava; Jr. lawyer, Bratislava 1938-42; office worker 1943-44; took part in Slovak Nat. Rising; Commr. of Interior 1944-45; Commr. for Transport and Technology 1945-46; Chair. of Bd. of Commrs. 1946-50, concurrently Commr. for Agric. 1948; Dept. Head at Cen. Cttee. of CP of Slovakia 1950-51; political imprisonment 1951-60; Building Works, Bratislava 1960-63; Scientific Worker, Inst. of Law, Slovak Acad. of Sciences 1963-68; Deputy Premier 1968; mem. 5th illegal Cen. Cttee. of CP of Slovakia; mem. Cen. Cttee. CP of Slovakia 1943-44, 1945-50, 1968-71, of Presidium 1943-44, 1945-50, 1968-69, of Secr. 1968-69, First Sec. 1968-69; mem. Presidium of Slovak Nat. Council 1943-46, 1968-69, Deputy of Slovak Nat. Council 1945-50, 1968-71; mem. Cen. Cttee. CP of Czechoslovakia 1945, 1949-51, 1968-, of Presidium 1945-50, 1968-, Exec. Cttee. of Presidium 1968-69, mem. Secr. 1969-, First Sec. 1969-71, Gen. Sec. 1971-; mem. Nat. Assembly 1945-51; Deputy to House of Nations, Fed. Assembly 1968-71, Deputy to Slovak Fed. Assembly 1971-75, Deputy to House of the People 1971-73, mem. Presidium of Fed. Assembly 1969-75; mem. Presidium, Cen. Cttee. Nat. Front of C.S.S.R. Jan. 1971-, Chair. Cen. Cttee 1971-; C.-in-C. People's Militia of C.S.S.R. April 1969, of Armed Forces 1975-; Pres. of Repub. of Czechoslovakia May 1975-; Klement Gottwald Order 1968, 1973, Order of Lenin 1969, 1973, Hero of C.S.S.R. 1969, 1973, Order of Victorious February 1973, Pahlavi Order 1st Class (Iran), Order of Republic 1978, Order of October Revolution (U.S.S.R.) 1978, and numerous other foreign decorations. *Publications:* On the Agricultural Problem in Slovakia 1948, The Struggle for Tomorrow 1948, Evidence on Slovak National Rising 1964. *Address:* Secretariat of the Communist Party of Czechoslovakia, Prague nábř. Ludvíka Svobody 12; Prague-Hrad, Czechoslovakia.

HUSÉN, Torsten, M.A., PH.D.; Swedish educationist; b. 1 March 1916, Lund; s. of Johan and Betty (née Prawitz) Husén; m. Ingrid Joensson 1940; two s. one d.; ed. Univ. of Lund; Research Asst., Inst. of Psychology, Univ. of Lund 1938-43; Sr. Psychologist, Swedish Armed Forces 1944-51; Reader in Educational Psychology, Univ. of Stockholm 1947-52, Prof. 1953-56; Prof. of Educ. and Dir. Inst. of Educ. Research, Univ. of Stockholm 1956-71, Prof. of Int. Educ. 1971-; Chair. Int. Assen. for the Evaluation of Educ. Achievement 1962-; Fellow, Center for Advanced Study of the Behavioural Sciences, Stanford, Calif. 1965-66, 1973-74; mem. Panel of Scientific Advisers to Swedish Govt. 1962-69; Expert in Royal Comms. on Swedish School Reform 1957-65; Consultant to OECD 1968-74; Chair. Governing Bd., Int. Inst. Educ. Planning, Paris 1970-; mem. Governing Bd. Max Planck Inst., Berlin 1964-; Visiting Prof., Univs. of Chicago 1959, Hawaii 1968, Ontario Inst. for Studies in Educ. 1971; mem. Swedish Royal Acad. of Sciences 1972-, U.S. Nat. Acad. of Educ. 1967-; LL.D. h.c. (Chicago) 1967, D.Tech. (Brunel Univ.) 1974; L.H.D. (Rhode Island Univ.) 1975; Medal for Distinguished Service in Int. Educ., Teachers Coll., Columbia Univ. 1970, Glasgow 1974. *Publications:* Psychological Twin Research 1959, Problems of Differentiation in Swedish Compulsory Schooling 1962, International Study of Achievement in Mathematics I-II 1967, Educational Research and Educational Change 1968, Talent, Opportunity and Career 1969, Talent, Equality and Meritocracy 1974, Social Influences on Educational Attainment 1975, The School in Question 1979. *Leisure interest:* book collecting (old books). *Address:* Institute for International Education, S-10691 Stockholm; Armfeltsgatan 10, S-11534 Stockholm, Sweden (Home). *Telephone:* 08-15-01-60 (Office); 08-67-19-76 (Home).

HUSSEIN, Abdirizak Haji; Somali politician and diplomatist; b. 1924, Galkayo District; joined Somali Youth Club which became Somali Youth League 1944, Pres. 1956-58; Pres. of Univ. Inst., Mogadishu 1956-59, mem. Nat. Assembly 1959-69, later formed Popular Movt. for Democratic Action; Minister of Interior, later of Works and Communications 1960-64; Prime Minister 1964-67; detained following coup 1969, released April 1973; Perm. Rep. to UN 1974-. *Address:* Permanent Mission of Somalia to United Nations, 747 Third Avenue, 22nd Floor, New York, N.Y. 10017, U.S.A.

HUSSEIN, Abdul-Aziz; Kuwaiti diplomatist and politician; b. 1921, Kuwait; m. 1948; two s. one d.; ed. Teachers Higher Inst., Cairo and Univ. of London; fmr. Dir. "House of Kuwait", Cairo, Dir.-Gen. Dept. of Educ., Kuwait; Amb. to the U.A.R. 1961-62; Perm. Rep. to Arab League Council; State Minister in Charge of Cabinet Affairs 1963-64; Minister of State for Cabinet Affairs Feb. 1971-. *Publication:* Lectures on Arab Society in Kuwait 1960. *Address:* c/o Ministry of State for Cabinet Affairs, Kuwait.

HUSSEIN BIN ONN, Datuk, S.P.M.J.; Malaysian barrister and politician; b. 12 Feb. 1922; s. of the late Dato Onn bin Ja'afar (founder-president of UMNO); ed. Cambridge School, Indian Mil. Acad., Dehra Dun, Lincoln's Inn, England; commissioned in Indian Army 1942, served in Middle East and India; Mil. Gen. H.Q., New Delhi; with British Liberation Forces, Malaya 1945; served Malay Admin. Service, Kuala Selangor and Klang 1946-47; Nat. Youth Leader and Sec.-Gen. United Malays Nat. Org. (UMNO) 1947; mem. Fed. Legislative Council, Jahore Council of State and State Exec. Council 1948-57; called to the Bar, London 1960; rejoined UMNO 1968, Pres. 1976-; M.P. 1970-; Minister of Educ. 1970-73; Deputy Prime Minister 1973-76, Minister of Finance and Co-ordinator of Public Corpns. 1974-76; Prime Minister Jan. 1976-, and Minister of Defence Jan. 1976-78, of Federal Territory July 1978–; Seri Paduka Mahkota Johor. *Address:* Prime Minister's Office, Kuala Lumpur 11-01; 3 Jalan Kenny, Kuala Lumpur, Malaysia (Home).

HUSSEIN, Hamzah Abbas, B.A.(ECONS.); Kuwaiti central banker; b. 1 Oct. 1934, Kuwait; m. Laila Ahmad Al-Jasem 1964; three d.; ed. American Univ. of Beirut; Govt. official 1959; Admin. Asst., Civil Service Comm. 1959-60; attended several courses on money and banking 1961-62; Sec. and Currency Officer, Kuwait Currency Bd. 1963-68; Deputy Gov. Cen. Bank of Kuwait 1968-73, Gov. 1973-; Chair. of Bd., Banking Studies Centre of Kuwait 1970. *Leisure interest:* swimming. *Address:* Central Bank of Kuwait, P.O. Box 526, Kuwait. *Telephone:* 443384, 449200/222.

HUSSEIN IBN TALAL, King of Jordan; b. 14 Nov. 1935; ed. Victoria Coll., Alexandria, Harrow School, and Royal Military Academy, Sandhurst, England; succeeded his father 11 Aug. 1952; came to power 2 May 1953; married 1955, Princess Dina, d. of Abdel-Hamid Aoun of Saudi Arabia (marriage dissolved); daughter Princess Alia b. 1956; married 1961, Antoinette Gardiner (assumed name of Muna el Hussein, divorced 1972); sons, Prince Abdullah b. 1962, Prince Feisal b. 1963, twin daughters, Princess Zein and Princess Ayeshia, b. April 1968; married 1972, Alia Baha Eddin Toukan (died 1977), daughter of Baha ud-Din Toukan (*q.v.*); daughter Princess Haya b. 1974, son Prince Ali b. 1975; married 1978 Elizabeth Halaby; Order of Al-Nahda, of Al-Kawkab, of Al-Istiqlal; many other decorations. *Publications:* Uneasy Lies the Head 1962, My War with Israel 1967. *Address:* Royal Palace, Amman, Jordan.

HUSSEIN, Saddam; Iraqi politician; b. 1937, Tikrit, nr. Baghdad; m. Sajida Khairalla 1963; two s. two d.; ed. al-Karkh Secondary School, Baghdad, al-Qasr al-Aini Secondary School, Cairo, Cairo Univ. and al-Mustanseriya Univ., Baghdad; joined Arab Baath Socialist Party 1957; sentenced to death for attempted execution of Gen. Abdul Karim Qassim 1959; joined leadership of Cairo branch of Baath Party 1962; returned to Iraq following revolution 1963; mem. 4th Regional Congress and 6th Nat. Congress of Baath Party 1963; mem. Regional Leadership of Baath Party in Iraq following overthrow of Party rule 1963; mem. 7th Nat. Congress, Syria 1964; arrested for plotting overthrow of Abdul Salam Aref 1964; elected mem. leadership by 8th Nat. Congress while still in prison 1965; Deputy Sec. Regional Leadership of Baath Party 1966; played prominent role in July 1968 revolution; Act. Deputy Chair. Revolutionary Command Council 1968-69; Deputy Chair. Revolutionary Command Council 1969-79, Chair, 1979-; Pres. of Iraq. June 1979-; Deputy Sec. Regional Leadership in 7th Regional Congress 1968; mem. Nat. Leadership of Party in 10th National Congress 1970; rank of Gen. 1976; Order of Rafidain, 1st Class 1976. *Address:* Revolutionary Command Council, Baghdad, Iraq.

HUSTICH, Väinö Ilmari, PH.D.; Finnish academician and administrator; b. 11 Aug. 1911, Helsinki; m. Gunvor Ståhlström 1937, one s. one d.; ed. Helsinki Univ.; Prof. of Econ. Geography 1950-74, Rector of Swedish School of Econs., Helsinki 1966-71; Chair. Comm. Archipelago Devt. 1961-66; Minister of Trade and Industry 1961-62; mem. State Foreign Trade Bd. 1962-74, State Comm. for Devt. Areas 1963-74; Hon. mem. Geographical Soc. of Finland 1971; Chair. Soc. Scientiarum Fennica 1972-73, Academician 1975; Fellow, Arctic Inst. of N. America 1967. *Publications:* on economics, political geography, Canadian and Finnish biogeography, ecology. *Address:* Hollandarvagen 1, 00330 Helsinki, Finland.

HUSTON, John; Irish (b. American) film writer and director; b. 5 Aug. 1906, Nevada, Mo.; s. of Walter Huston and Rhea Gore Huston; m. 2nd Enrica Soma 1950 (died 1969), one s. one d.; m. 3rd Celeste Shaw 1972; joined Warner Bros. Studio as writer 1938; directed The Maltese Falcon 1941, In This Our Life 1942, Key Largo 1948; writer and director Metro-Goldwyn-Mayer 1949-; other films include The Treasure of Sierra Madre 1947, The Asphalt Jungle 1950, The Red Badge of Courage 1951, The African Queen 1952, Moulin Rouge 1953, Beat the Devil 1954, Moby Dick 1956, The Roots of Heaven 1958, The Unforgiven, The Misfits 1960, Freud (or The Secret Passion) 1962, The Night of the Iguana 1964, The Bible 1966, Casino Royale 1967, Reflections in a Golden Eye 1968, Sinful Davey 1969, A Walk with Love and Death 1969, The Kremlin Letter 1970, Fat City 1972, The Life and Times of Judge Roy Bean 1973, The Mackintosh Man 1973, The Man Who Would be King 1975; acted in The Cardinal 1963, The Bible 1966, Candy 1968, Chinatown 1974, The Other Side of the Wind 1974; has also directed stage productions of A Passage to Bali 1939, No Exit 1945, The Mines of Sulphur 1966; Screen Writers' Laurel Award 1963. *Leisure interests:* painting, fox hunting. *Address:* c/o Jess S. Morgan & Co., 6420 Wilshire Boulevard, Los Angeles, Calif. 90048, U.S.A.

HUSZÁR, István; Hungarian economist; b. 1927, Hernádkak; one d.; ed. Karl Marx Univ. of Econs., Budapest; joined CP 1948; Asst. Lecturer, Dept. of Statistics, Karl Marx Univ. of Econs. 1951-53; worked in party HQ 1953-61, Deputy Head Dept. of State Admin. 1961-63; mem. Cen. Cttee. Hungarian Socialist Workers' Party 1970-, Political Cttee. 1975-; Pres. Cen. Statistics Office, Sec. of State 1969-73; First Deputy Pres. Nat. Planning Office; mem. State Planning Comm. 1973; Deputy Prime Minister 1973-; mem. Political Econ. Bd. attached to HSWP Cen. Cttee. 1975-; Pres. Nat. Planning Office 1975-; Vice-Pres. Hungarian Econ. Soc.; Titular Univ. Prof. *Address:* National Planning Office, 1370 Budapest, Arany János utca 6/8, Hungary.

HUTASINGH, Prakob, LL.B., D.JUR.; Thai judge; b. 5 Feb. 1912; s. of Praya Sapakit Kasertakarn and Lady Sawong Sapakit Kasertakarn; m. Lady Chuanchuen 1942; three s. one d.; ed. Vajiravuth Coll., Univ. of Jena and Thammasat Univ., Bangkok; joined the judiciary 1937; Asst. Judge Court of Appeal 1941; Sec. Supreme Court 1948; Asst. Judge Supreme Court 1950; Judge, Appeal Court 1953; Judge, Supreme Court 1960; Pres. Supreme Court 1967-72; Minister of Justice 1973-74; Deputy Prime Minister 1974-75; Pres. Thai Bar and Inst. of Legal Educ., Thai Bar; mem. Thai Privy Council 1975-; Hon. D.C.L. *Publications:* various legal textbooks. *Address:* 71 Soi Senanikom 1, Phaholyotin Road, Bangkhen, Bangkok, Thailand. *Telephone:* 5791335 or 5791934.

HUTCHINSON, Edmond C., M.A., PH.D.; American business executive; b. 23 Nov. 1913, Rosemark, Tenn.; s. of Lawrence E. Hutchinson and Sue Maferrin Hutchinson; m. Minnie Louise Ingram 1938; two s.; ed. Southwestern Univ. and Univ. of Virginia; Economist, Analyst, Railroad Retirement Bd. 1938-42; Man. Analyst, War Production Bd. 1942-44; Provisional Dir.-Gen. of Finances, Iranian Govt. 1944-46; Man. Analyst, Civil Production Admin. 1946, Dept. of Commerce 1946-47; Budget Analyst, Dept. of Army, Japan 1947-52; Budget Examiner, Dep. Divisional Chief, Bureau of Budget 1953-58; Chief, Loan Operations 1958-60; Asst. Deputy Man. Dir. for Operations, Devt. Loan Fund 1960-61; Asst. Administrator for Africa, Agency for Int. Devt., Dept. of State 1961-66; Chair. Exploration Devt. Group, Vice-Pres. Research Analysis Corpn. 1967-72; Sr. Vice-Pres. American Technical Assistance Corpn., McLean, Va. 1972-76. *Address:* 9619 Hillridge Drive, Kensington, Maryland, U.S.A.

HUTCHINSON, Sir Joseph Burtt, Kt., C.M.G., F.R.S., SC.D.; British professor of agriculture; b. 21 March 1902, Burton Latimer; s. of Edmund and Lydia M. Hutchinson; m. Martha L. Johnson 1930; one s. one d.; ed. Ackworth and Bootham Schools, and St. John's Coll., Cambridge; fmrly. worked at Cotton Research Station, Trinidad, later at Inst. of Plant Industry, Indore, India; Dir. of Cotton Research Station, Namulonge, Uganda 1949-57; Drapers Prof. of Agric., Cambridge Univ. 1957-69, Prof. Emer. 1969-; Chair. Council of Makerere Coll., Uganda 1953-57; Pres. British Assn. for Advancement of Science 1965-66; mem. Nature Conservancy 1962-66; Fellow St. John's Coll., Cambridge, Linnean Soc.; Hon. Fellow Makerere Coll.; Foreign Fellow, Indian Nat. Science Acad. 1974; Royal Soc. Leverhulme Visiting Prof., Indian Agric. Research Inst., Delhi, 1969-70; Hon. D.Sc. (Nottingham and East Anglia); Royal Medal of the Royal Soc. 1967. *Publications:* The Genetics of Gossypium 1958, Genetics and the Improvement of Tropical Crops 1958, Application of Genetics to Cotton Improvement 1959, Farming and Food Supply 1972; Ed. Essays on Crop Plant Evolution 1965, Population and Food Supply 1969, Evolutionary Studies in World Crops 1974. *Leisure interest:* gardening. *Address:* St. John's College, Cambridge; Huntingfield, Huntingdon Road, Cambridge CB3 0LH, England (Home). *Telephone:* Cambridge 61621 (College); Cambridge 76272 (Home).

HUTCHISON, Clyde A., Jr., PH.D.; American university professor; b. 5 May 1913, Alliance, Ohio; s. of Clyde A. Hutchison and Bessie G. Hutchison; m. Sarah Jane West 1937; two s. one d.; ed. Ohio State Univ.; Nat. Research Council Fellow, Columbia Univ. 1937-38; Asst. Prof. of Chem., Univ. of Buffalo 1939-45; Research Assoc., Univ. of Va. 1942-43, Manhattan District Project 1943-45; Asst. Prof. Enrico Fermi Inst., Univ. of Chicago 1945-50, Dept. of Chem. 1948-50; Assoc. Prof. Enrico Fermi Inst. and Dept. of Chem. 1950-54, Prof. 1954-63, Carl William Eisendrath Prof. 1963-69, Carl. W. Eisendrath Distinguished Service Prof. of Chem. 1969-, Chair. Dept. of Chem. 1959-62; Consultant Argonne Nat. Lab. 1946-; Ed., Journal of Chemical Physics, American Inst. of Physics 1953-59; mem. Nat. Acad. of Sciences, A.C.S.; Visiting Prof. sponsored by Japan Soc. for the Promotion of Science 1975; Fellow, American Acad. of Arts and Sciences, American Physical Soc. (mem. Council 1967-71); Guggenheim Fellow, Oxford Univ. 1955-56, 1972-73; Hon. D.Sc. (Cedarville); Ohio State Univ. Centennial Achievement Award 1970; Peter Debye Award, A.C.S. 1972. *Publications:* 80 scientific papers, documents and contribs. to books. *Address:* Department of Chemistry, University of Chicago, Chicago, Ill. 60637, U.S.A. *Telephone:* 312-753-8618.

HUTTON, Sir Leonard, Kt.; British cricketer and company director; b. 23 June 1916, Pudsey, Yorkshire; s. of S. Henry Hutton; m. Dorothy Mary Dennis 1939; two s.; ed. Littlemoor School, Pudsey; right-hand batsman; first played for Yorkshire 1934; first played for England 1937; captained England v India 1952, v Australia 1953, v Pakistan 1954, v Australia 1954; captained M.C.C. v West Indies 1953-54; made record Test score, 364 v Australia at the Oval, London 1938; made 1,294 runs in single month, June 1949; more than 100 hundreds in First Class Cricket; retired from cricket 1956; a selector, M.C.C. 1975-; served in Royal Artillery and Army Physical Training Corps, Second World War; Dir. Fenner International 1970-. *Publications:* Cricket is My Life 1950, Just My Story 1956. *Leisure interests:* golf, interior decorating, family. *Address:* Ebor House, Coombe Neville, Warren Road, Kingston-upon-Thames, Surrey, England. *Telephone:* 01-942 0604.

HUVELIN, Paul; French engineer; b. 22 July 1902, Chorey-les-Baune, Côte d'Or; s. of Henri and Louise Ricaud; m. Madeleine Giros 1928; six s. two d.; ed. Lycée Carnot, Dijon, and Ecole Polytechnique, Paris; Engineer in charge of production, Société Métallurgique de Normandie 1924-27; Chief Engineer, Sec. and Man. l'Electrique Lille-Roubaix-Tourcoing and Chemin de fer de l'Est de Lyon 1928-36; Man. Soc. Industrielle de Gérance et d'Exploitation, later Man. Soc. Gén. d'Exploitations Industrielles (SOGEI) 1936-47, Chair. of Bd. and Pres. 1947-; Chair. and Pres. Energie Electrique du Nord de la France 1940-46, Cie. Electrique de la Loire et du Centre 1945-46; Chair. and Pres. Société Kleber-Colombes 1959-70, Hon. Pres. 1970-; Vice-Pres. and Dir. Thomson-Brandt 1972-76; Dir. Soc. Générale d'Entreprises (SGE), Sogelerg, CGE; Pres. Conseil Nat. du Patronat Français until 1966 and Hon. Pres. 1973-; Pres. l'Union des Industries de la Communauté Européenne (UNICE) 1972-76. *Leisure interests:* shooting, golf, tennis. *Address:* 37 rue de Sèvres, 75006 Paris, France. *Telephone:* 224-47-40.

HUXLEY, Sir Andrew Fielding, Kt., SC.D., F.R.S.; British physiologist; b. 22 Nov. 1917, London; s. of Leonard Huxley and Rosalind née Bruce; m. Jocelyn Richenda Gammell Pease 1947; one s. five d.; ed. Univ. Coll. School, Westminster School and Trinity Coll., Cambridge; Operational Research, Anti-Aircraft Command 1940-42, Admiralty 1942-45; Fellow of Trinity Coll., Cambridge 1941-60, Dir. of Studies 1952-60, Hon. Fellow 1967; Demonstrator, Dept. of Physiology, Cambridge Univ. 1946-50, Asst. Dir. of Research 1951-59, Reader in Experimental Biophysics 1959-60; Jodrell Prof. of Physiology, Univ. Coll., London 1960-69, Royal Soc. Research Prof. 1969-; Pres. British Assn. for the Advancement of Science 1976-77; Chair. Medical Research Cttee. of the Muscular Dystrophy Group 1974-; mem. Govt.'s Scientific Authority for Animals 1976-77, Agric. Research Council 1977-, Council of the Royal Soc. 1977-79; Chair. Agric. Research Council's Research Grants Bd.—Animals 1978-, British Nat. Cttee. for Physiological Sciences 1979-; Assoc. mem. Royal Acad. of Sciences, Letters and Fine Arts, Belgium 1978; Hon. Foreign mem. American Acad. of Arts and Sciences 1961, Royal Acad. of Medicine, Belgium 1978; Hon. M.D. (Saar) 1964, Hon. D.Sc. (Saar) 1964, (Leicester) 1967, (London) 1973, (St. Andrews) 1974, (Aston) 1977, Hon. Sc.D. (Cambridge) 1978, Hon. LL.D. (Birmingham) 1979; Nobel Prize for Medicine 1963, Copley Medal (Royal Soc.) 1973. *Publications:* papers chiefly in Journal

of Physiology, Reflections on Muscle (Sherrington Lectures, Liverpool Univ.). *Leisure interests:* walking, design of scientific instruments. *Address:* Manor Field, Grantchester, Cambridge, England. *Telephone:* Trumpington 2207.

HUXLEY, Elspeth Josceline, C.B.E., J.P.; British author; b. 23 July 1907, London; d. of the late Josceline Grant and of Eleanor Grant; m. Gervas Huxley 1931; one s.; ed. Reading and Cornell Univs.; Asst. Press Officer, Empire Marketing Bd. 1929-32; extensive travels in America, Africa and elsewhere with her husband Gervas Huxley; mem. Moncton Comm. on Cen. Africa 1960. *Publications:* White Man's Country, Lord Delamere and the Making of Kenya (2 vols.) 1933, Red Strangers (novel) 1939, The Walled City (novel), The Sorcerer's Apprentice (travel) 1948, Four Guineas (travel) 1952, A Thing to Love (novel) 1954, The Red Rock Wilderness (novel) 1957, The Flame Trees of Thika (autobiography) 1959, A New Earth 1960, The Mottled Lizard 1962, The Merry Hippo 1963, A Man from Nowhere 1963, Forks and Hope 1964, Back Street New Worlds 1964, Brave New Victuals 1965, Their Shining Eldorado (travel) 1967, Love Among the Daughters (3rd Vol. of autobiog.) 1968, The Challenge of Africa 1971, Livingstone and his African Journeys 1974, Florence Nightingale 1975, Gallipot Eyes: A Wiltshire Diary 1976, Scott of the Antarctic 1977; also three detective novels 1934-38. *Leisure interests:* reading, walking and country pursuits. *Address:* Green End, Oaksey, nr. Malmesbury, Wilts., England.

HUXLEY, Hugh Esmor, M.B.E., F.R.S., M.A., PH.D., SC.D.; British scientist; b. 25 Feb. 1924, Birkenhead, Cheshire; s. of Thomas Hugh Huxley and Olwen Roberts; m. Frances Fripp 1966; one d.; two step s., one step d.; ed. Park High School, Birkenhead and Christ's Coll., Cambridge; Radar Officer, R.A.F. Bomber Command and Telecommunications Research Establishment, Malvern 1943-47; Research Student, Medical Research Council Unit for Molecular Biology, Cavendish Lab., Cambridge 1948-52; Commonwealth Fund Fellow, Biology Dept., M.I.T. 1952-54; Research Fellow, Christ's Coll., Cambridge 1953-56; mem. of External Staff of Medical Research Council and Hon. Research Assoc., Biophysics Dept., Univ. Coll. London 1956-61; mem. of Scientific Staff, Medical Research Council Lab. of Molecular Biology, Cambridge 1962-, Deputy Chair. 1977–; Fellow, King's Coll., Cambridge 1961-67, Churchill Coll., Cambridge 1967-; Harvey Soc. Lecturer, New York 1964-65; Sr. Visiting Lecturer, Physiology Course, Woods Hole, Mass. 1966-71; Wilson Lecturer, Univ. of Tex. 1968; Dunham Lecturer, Harvard Medical School 1969; Croonian Lecture, Royal Soc. of London 1970; Ziskind Visiting Prof. of Biology, Brandeis Univ. 1971; Penn Lecturer, Univ. of Pa. 1971; Mayer Lecturer, M.I.T. 1971; Miller Lecturer, State Univ. of N.Y. 1973; Carter-Wallace Lecturer, Princeton Univ. 1973; mem. Advisory Bd. of Rosentiel Basic Medical Sciences Center, Brandeis Univ. 1971-; mem. Council of Royal Soc. of London 1973-75; mem. Scientific Advisory Cttee., European Molecular Biology Lab. 1975-; mem. German Acad. of Science, Leopoldina 1964; Foreign Hon. mem. American Acad. of Arts and Sciences 1965, Danish Acad. of Sciences 1971, American Soc. of Biological Chemists 1976, Foreign Assoc. Nat. Acad. of Sciences of U.S. 1978; Hon. D.Sc. (Harvard) 1969, (Univ. of Chicago) 1974, (Univ. of Pa.) 1976; Feldberg Award for Experimental Medical Research 1963, Int. Award, Gairdner Foundation 1975; William Bate Hardy Prize of the Cambridge Philosophical Soc. 1965, Louisa Gross Horwitz Prize 1971, Int. Feltrinelli Prize for Medicine 1974, Baly Medal, Royal Coll. of Physicians 1975, Royal Medal, Royal Soc. of London 1977. *Publications:* articles in scientific journals. *Leisure interests:* skiing, sailing. *Address:* Medical Research Council Laboratory of Molecular Biology, Hills Road, Cambridge, England. *Telephone:* Cambridge 48011.

HUXLEY, Sir Leonard George Holden, K.B.E., M.A., D.PHIL., PH.D., F.A.A.; Australian public official; b. 29 May 1902; ed. The Hutchins School, Hobart, Tasmania Univ. and New Coll., Oxford; on scientific staff, C.S.I.R., Sydney 1929-30; Lecturer, Univ. Coll., Nottingham, England 1930-32; Head, Physics Dept., Univ. Coll., Leicester, England 1932-40; Prin. Scientific Officer, Telecommunications Research Establishment, Ministry of Aircraft Production 1940-46; Reader in Electromagnetism, Birmingham Univ., England 1946-49; Elder Prof. of Physics, Adelaide Univ. 1949-60; Vice-Chancellor, Australian Nat. Univ. 1960-67; Pres. Australian Inst. of Physics 1962-65; Chair. Radio Research Bd. of Australia 1958-63, Radio Frequency Allocation Cttee. 1960-64, Australian Nat. Standards Comm. 1953-65; mem. U.S. Educ. Foundation in Australia 1960-64; mem. Nat. Library Council 1960-72, Exec. Commonwealth Scientific and Industrial Research Org. (CSIRO) 1960; mem. Australian-American Educ. Foundation 1965-69; Chair. Gen. Council Australia-Britannica Awards Scheme 1964-68; mem. Council Canberra Coll. of Advanced Educ. 1968-74; Fellow, Australian Acad. of Science 1954-; Trustee, Australian Humanities Research Council 1968-70. *Publications:* Wave Guides (with R. W. Crompton) 1949, The Diffusion and Drift of Electrons in Gases 1974, numerous papers on gaseous electronics, electromagnetism, ionosphere and upper atmosphere. *Address:* 19 Glasgow Place, Hughes, Canberra, A.C.T. 2605, Australia. *Telephone:* Canberra 815560.

HUXTABLE, Ada Louise, A.B.; American writer and critic; b. New York; d. of Michael Louis and Leah (Rosenthal) Landman; m. L. Garth Huxtable 1942; ed. Hunter Coll., and Inst. of Fine Arts, New York Univ.; Asst. curator of architecture and design, Museum of Modern Art, New York 1946-50; Fulbright Scholarship to study contemporary Italian architecture and design 1950, 1952; contributing ed. Progressive Architecture, Art in America, free-lance writer on architecture and design 1952-63; architecture critic, New York Times 1963; mem. Times Editorial Bd. 1973-; mem. Bd. of New York Council for Humanities, New York Landmarks Conservancy, Overseers of Graduate School of Fine Arts at Univ. of Pa.; mem. Corpn. Visiting Cttee. of M.I.T., Rockefeller Univ. Council, Municipal Arts Soc.; professional socs.: Soc. of Architectural Historians, Nat. Trust for Historic Preservation, Victorian Soc. in America; mem. American Acad. and Inst. of Arts and Letters; Hon. mem. American Inst. of Architects; Fellow of American Acad. of Arts and Sciences; Guggenheim fellowship for studies in American architecture 1958; numerous hon. degrees; numerous prizes and awards including: Frank Jewett Mather Award of Coll. Art Assn. for art criticism 1967, Elsie de Wolfe Award of American Inst. of Interior Designers 1969, Pulitzer Prize for Distinguished Criticism 1970, Architectural Criticism Medal of American Inst. of Architects 1969, Special Award of Nat. Trust for Historic Preservation 1970, Nat. Arts Club Medal for Literature 1971, Diamond Jubilee Medallion of the City of New York 1973, U.S. Sec. of Interiors' Conservation Award 1976, Thomas Jefferson Medal for Architecture 1977. *Publications:* Pier Luigi Nervi 1960, Classical New York 1964, Will They Ever Finish Bruckner Boulevard? 1970, Kicked a Building Lately? 1976. *Address:* The New York Times, 229 West 43rd Street, New York, N.Y. 10036, U.S.A.

HUYGHE, René; French art critic and historian; b. 3 May 1906, Arras, Pas de Calais; s. of Louis Huyghe and Marie Delvoye; m. Lydie Bouthet 1950; one s. one d.; ed. Ecole du Louvre and Faculty of Letters, Paris; on staff of Musée du Louvre 1927; Asst. Keeper 1930; Keeper of Paintings 1937; Head Keeper of Paintings and Drawings 1945; Prof. Ecole du Louvre; Prof. of Psychology of Plastic Arts, Coll. de France 1950-; mem. French Museum Council 1952, Vice-Pres. 1964, Pres. 1974-; Res. Prof. Nat. Gallery of Art Washington 1968; Pres. UNESCO Int. Cttee. of experts to save Venice; Dir. Musée Jacquemart André 1974; Dir. of art review L'Amour de l'Art 1930-; founder and dir. of review Quadrige 1945–; has collaborated or organized numerous exhbns., including French Art, London 1931, Van Gogh and Masterpieces of French Art, Paris 1937, Modern Painting, Rio de Janeiro 1945, etc.; has made art films, including Rubens and His Age (Venice Festival Prize); mem. and fmr. Pres. Académie Septentrionale; Grand Officier Légion d'honneur, Commdr. Ordre de Léopold, Commdr. Order of Merit (Italy), Commdr. Mérite Culturel (Monaco), Commdr. Couronne de chêne (Luxembourg); mem. Acad. Française 1960-; Erasmus Prize 1966. *Publications:* Histoire de l'art contemporain 1934, Cézanne 1936, La peinture française: le portrait (2 vols.) 1937, Les dessins de Van Gogh 1937, Les contemporains 1939, La peinture actuelle 1945, La poétique de Vermeer 1948, Le dessin français au XIXe siècle 1949, Univers de Watteau 1950, Gauguin et Noa-Noa 1951, Le carnet de Gauguin 1952, La peinture d'occident 1952, Dialogue avec le visible 1955, L'art et l'homme, Vol. I 1957, Vol. II 1958, Vol. III 1961, Van Gogh 1958, Gauguin 1959, L'art et l'âme 1960, Peinture française aux XVIIe et XVIIIe siècles 1962, Delacroix ou le combat solitaire 1963, Les puissances de l'image 1965, Sens et destin de l'art 1967, L'art et le monde moderne 2 vols. 1970, Formes et forces 1971, La relève du réel 1974, La relève de l'imaginaire 1976, Ce que je crois 1976. *Address:* 3 rue Corneille, Paris 6e, France.

HUYNH TAN PHAT; Vietnamese politician; b. 1913; mem. Vanguard Youth 1945; Editor Thanh-nien during anti-French struggle; remained in S. Viet-Nam after Geneva Agreement 1954; Sec.-Gen. Democratic Party; mem. Cen. Cttee. Nat. Liberation Front (NLF) 1964-; Pres. Provisional Revolutionary Govt. of Repub. of S. Viet-Nam 1969-76 (in Saigon 1975-76); Vice-Premier Council of Ministers, Socialist Repub. of Viet-Nam 1976-. *Address:* Council of Ministers, Hanoi, Viet-Nam.

HVASS, Frants, B.L.; Danish diplomatist; b. 29 Aug. 1896, Copenhagen; s. of Anders Hvass and Augusta (née Saxild); m. Esther

Baroness Lerche; one s.; ed. Univ. of Copenhagen; entered foreign service 1922; served Hamburg 1927, Ministry of Foreign Affairs 1930, London 1933; Ministry of Foreign Affairs 1936, Vice-Head of Section, Econ. Div. 1939, Head, Chief Admin. Div. 1940, Chief Political and Judicial Div. 1941; Perm. Under-Sec. of State for Foreign Affairs 1945-49; Head of Mil. Mission, Berlin, and Head of Mission to Allied High Command, Bonn 1949; Amb. to Germany 1951-66; Sec. Danish Del. to Disarmament Conf. Geneva 1932, Danish Cttee. for Scandinavian Econ. Collaboration 1937-39; mem. Del. to UN, Paris 1948, New York 1949; mem. Scandinavian Defence Cttee. 1948-49; Vice-Pres. Int. Inst. of Admin. Sciences 1947, Pres. 1956, Hon. Pres. 1962; Grand Cross and Cross of Honour, Order of Dannebrog, Grand Cross Order of Nordstjaernan (Sweden), St. Olav (Norway), of Léopold II (Belgium); Grand Officier Légion d'honneur; Grand Cross of Germany. *Leisure interest:* reading of memoirs. *Address:* 1206, Nabolös 4, Copenhagen K, Denmark. *Telephone:* 141241.

HYDER, Sajjad, B.A.; Pakistani diplomatist; b. 1920; ed. Govt. High School, Jullundur, D.A.V. Coll., Jullundur, and Indian Mil. Acad., Dehradun; served as Commissioned Officer in S.E. Asia, Second World War; Third Sec., Indian Foreign Service, New Delhi 1947, Second Sec., Washington 1948; Second Sec., First Sec. and Counsellor, London 1952; Dir. Pakistan Foreign Office, Karachi 1955; Deputy High Commr., New Delhi 1957-59, London 1959-61; Amb. to Iraq 1961-65, to United Arab Repub. 1965-68; High Commr. in India 1968-71; Amb. to Fed. Repub. of Germany 1972-75, to U.S.S.R. (also accred. to Finland) 1975-78. *Address:* c/o Ministry of Foreign Affairs, Islamabad, Pakistan.

HYMAN, Joe; British textile executive; b. 14 Oct. 1921; m. 1st Corrine I. Abrahams 1950 (marriage dissolved), one s. one d.; m. 2nd Simone Duke 1963, one s. one d.; ed. North Manchester Grammar School; entered father's General Textile Merchanting Co. 1937; founder Portland Woollen Co. 1946; owner Melso Fabrics Ltd., now Gainsborough Cornard Ltd. (Cornard Knitting Mills Ltd., Fine Jersey Ltd., and Cooper Bros.) 1957; Gainsborough Cornard and William Hollins Ltd. merged to form Viyella Int. Ltd. 1961, Chair. 1962-69, Dir. 1961-70; Chair. John Crowther and Sons (Milnsbridge) Ltd. 1971-; mem. Lloyds; Trustee, Pestalozzi Children's Village 1967-; mem. Textile Council 1968; Gov. Bedales School 1966, L.S.E. 1968; Fellow, Royal Soc. of Arts, British Inst. of Man.; Companion of Textile Inst.; Pres. Textile Benevolent Assen. *Address:* Lukyns, Ewhurst, Surrey, England.

HYUGA, Hosai; Japanese metals executive; b. 24 Feb. 1906, Yamanashi Pref.; m. 1933; one s. one d.; ed. Univ. of Tokyo; Head Office, Sumitomo Group 1931-41; Govt. Service 1941; Sumitomo Group 1941-, Dir. Sumitomo Metal Industries Ltd. 1949-, Man. Dir. 1952-58, Sr. Man. Dir. 1958-60, Exec. Vice-Pres. 1960-62, Pres. 1962-74, Chair. 1974-; Pres. Kansai Econ. Fed. 1977-; Counsellor, The Bank of Japan 1977-. *Leisure interests:* short poem writing, golf. *Address:* 177-2 Higashiyama-cho, Ashiya-shi, Hyogo-ken, 659 Japan. *Telephone:* 0797-22-3249.

I

IACOCCA, Lee A.; American automobile executive; b. 15 Oct. 1924, Allentown, Pa.; ed. Lehigh and Princeton Univs.; with Ford Motor Co. 1946; District Sales Man., Washington 1956; Ford Div. Truck Marketing Man. 1956; Car Marketing Man. 1957; Vice-Pres. and Gen. Man., Ford Div. 1960-65; Vice-Pres. Car and Truck Group 1965; Exec. Vice-Pres., North American Automotive Operations 1967; Exec. Vice-Pres., Ford Motor Co. and Pres. Ford North American Automotive Operations 1969-70, Pres. Ford Motor Co. 1970-78; Pres., Chief Operating Officer, Chrysler Corpn. Oct. 1978–; Hon. doctorates, Muhlenberg Coll. and Babson Inst.; mem. Soc. Automotive Engineers. *Address:* 571 Edgemere Court, Bloomfield Hills, Michigan, U.S.A.

IAKOVOS, Archbishop; American ecclesiastic; b. 29 July 1911, Island of Imbros, Turkey; s. of Maria and Athanasios Coucouzis; baptismal name Demetrios; ed. Theological School of Halki, Istanbul; Deacon 1934; ordained priest in Lowell, Mass., U.S.A. 1940; Dean Cathedral of the Annunciation, Boston 1942-54; Bishop of Malta 1954; Rep. of Patriarch of Constantinople to World Council of Churches, Geneva 1955; Archbishop, Greek Orthodox Church in North and South America 1959-; Pres. World Council of Churches 1959-68; 13 hon. degrees. *Address:* Orthodox Cathedral of the Holy Trinity, 10 East 79th Street, New York, N.Y. 10021, U.S.A.

IANNELLA, Egidio; Argentine banker; b. 16 May 1921, Buenos Aires; s. of Antonio and Carmen Bárbaro de Iannella; one d.; ed. Escuela Nacional de Comercio, Buenos Aires, Univ. Nacional de Buenos Aires and Centro de Estudios Monetarios Latinamericanos, Mexico; various positions in Banco Central de la República Argentina 1939-56, Gen. Man. 1967-69, Pres. 1969-70, Dir. 1978-; with Banco Argentino de Comercio 1956-66; Exec. Vice-Pres. Banco Federal Argentino 1971-77; Pres. Banco Nacional de Desarrollo 1978-; Prof., Pontificia Univ. Católica Argentina 1966-. *Address:* Calle Viamonte 611, 1053 Buenos Aires, Argentina. *Telephone:* 392-9276.

IBE, Kyonosuke; Japanese banker; b. 28 July 1908, Tokyo; s. of Naomitsu Ibe; m. Kimi Yokoyama 1934; two s. one d.; ed. Tokyo Imperial Univ. (now Tokyo Univ.); joined Sumitomo Bank 1933, Dir. 1957-60, Man. Dir. 1960-64, Sr. Man. Dir. 1964-71, Deputy Pres. 1971-73, Pres. 1973-77, Chair. 1977-; Chair. Bd. of Trustees, Kansai Cttee. for Econ. Devt. 1967-69, Trustee 1969-; Trustee, Japan Cttee. for Econ. Devt. 1971-72, 1973-; Vice-Chair. Fed. of Bankers' Asscns. 1973-74; Chair. Osaka Bankers' Asscn. 1973-74, Vice-Chair. 1974-77; Exec. Dir. Fed. of Econ. Orgs. 1973-; Dir. Kubota Ltd. 1978-, Matsushita Electric Industrial Co. Ltd. 1979-; Pres. Bd. of Trustees, Osaka Philharmonic Soc. 1977-. *Leisure interests:* opera, classical music, reading, painting. *Address:* The Sumitomo Bank, 5-22 Kitahama, Higashi-ku, Osaka; (Home); 31 Higashiashiya-cho, Ashiya city, Hyogo, Japan. *Telephone:* 06-227-2000 (Office); 0797-22-4153 (Home).

IBEKWE, Hon. Dan Onwura, Q.C.; Nigerian barrister-at-law; b. 23 June 1919, Onitsha, Anambra State; s. of Chief Akukalia Omedike Ibekwe and Amaliwu Nwabunie Ibekwe; m. Cecilia Nkemdilim Ibekwe 1953; two s. six d.; ed. Saint Mary's School, Onitsha, Christ the King Coll., Onitsha, Council on Legal Educ. Law School, London; called to the English and Nigerian Bars 1951; law practice with J. I. C. Taylor 1951-54; at Aba, Nigeria 1954-56; Legal Adviser to the Premier, Eastern Region 1956-58; Solicitor-Gen., Eastern Region 1958-64; Senator and Fed. Minister in charge of Commonwealth Relations, Ministry of External Affairs 1965-66; Solicitor, firm of Messrs. Irving and Bonnar 1966; detained in Biafra 1967-70; Commr. for Works, Housing and Transport, East Cen. State 1970-72; Justice of the Supreme Court 1972-76; Attorney-Gen. and Commr. for Justice 1975-76; Pres. Fed. Court of Appeal 1976-; Chair. Nigerian Inst. of Int. Affairs 1976-. *Publications:* Justice in Blunderland. *Leisure interests:* gardening, music, table tennis, reading. *Address:* Federal Court of Appeal, Parliament Buildings, Lagos, Nigeria.

IBIAM, Sir Francis Akanu, K.C.M.G., K.B.E.; Nigerian medical missionary and politician; b. 29 Nov. 1906; ed. Hope Waddell Training Inst., Calabar, King's Coll., Lagos and Univ. of St. Andrews (Scotland); Medical Missionary, Church of Scotland Mission, Calabar, Nigeria 1936-, built Abiriba Hospital 1936-45, Medical Supt. C.S.M. Hospital, Itu 1945-48, Uburu 1952-57; mem. Bd. of Govs. Hope Waddell Training Inst. 1945-57, Prin. 1957-60; mem. Legislative Council, Nigeria 1947-52, Exec. Council 1949-52, Privy Council E. Region of Nigeria 1954-59; Gov. E. Nigeria 1960-66; Adviser to Mil. Gov. of Eastern Provinces, Nigeria 1966; Pres. Christian Council of Nigeria 1955-58; Chair. Provisional Cttee. of All-Africa Church Council 1958-62, Council of Univ. Coll., Ibadan 1958-61; one of six Pres. World Council of Churches 1961; Chair. Council, United Bible Socs. 1966-72, Vice-Pres. 1972-; Founder and Pres. Bible Soc. of Nigeria 1963-74, Patron 1974; Hon. D.Sc. (Univ. of Ife) 1966, Order of Russian Orthodox Church and other decorations. *Address:* 41A Colliery Avenue, Enugu, Nigeria.

IBRAHIM, Major Abu al-Qassim Mohammed; Sudanese army officer and politician; b. 1937, Omdurman; ed. Khartoum Secondary School and Military Coll.; commissioned 1961; mem. Revolutionary Council 1969; Minister of Local Govt. 1969-70; Asst. Prime Minister for Services 1970; Minister of Interior 1970-71, of Health and Social Welfare 1971-73, of Agric., Food and Natural Resources 1974-76; mem. Political Bureau of Sudanese Socialist Union 1971-, Deputy Sec.-Gen. 1975-76, Sec.-Gen. 1976-; Commr. for Khartoum Prov. Aug. 1976-; First Vice-Pres. of Sudan Aug. 1977-. *Address:* Sudanese Socialist Union, Khartoum, Sudan.

IBRAHIM, Sir Kashim, K.C.M.G., C.B.E.; Nigerian politician; b. 10 June 1910; ed. Bornu Provincial School, Katsina Teachers' Training Coll.; Teacher 1929-32; Visiting Teacher 1933-49; Educ. Officer 1949-52; Cen. Minister of Social Services 1952-55; Northern Regional Minister of Social Devt. and Surveys 1955-56; Waziri of Bornu 1956-62; Gov. of Northern Nigeria 1962-66; Chair. Nigerian Coll. of Arts, Science and Technology 1958-62, Provincial Council of Ahmadu Bello Univ. 1961-62; Adviser to Mil. Gov. of Northern Nigeria 1966; Chancellor Ibadan Univ. 1967-77, Univ. of Lagos 1977-; Grand Cross Order of the Niger. *Publications:* Kanuri Reader Elementary I-IV, Kanuri Arithmetic Books I-IV for Elementary Schools. *Address:* c/o University of Lagos, Lagos, Nigeria.

IBRAHIM, Mohamed Hamid; Ethiopian diplomatist; b. 21 Aug. 1931, Asbe Teferi, Harrar; ed. Univ. of Addis Ababa, McGill Univ. and Columbia Univ.; entered Ministry of Foreign Affairs 1960, Dir.-Gen. Dept. of Int. Org. 1962, Vice-Minister 1972, Head of American Affairs Dept. 1972-75; Perm. Rep. to UN 1975-77; Special Asst. to Sec.-Gen. of Founding Conf. of OAU 1963; mem. Judicial Review Panel of Crown Appeal Court 1965-74; Sec.-Gen. Constitutional Review Comm. 1974; mem. dels. to UN Gen. Assembly 1961, 1965, 1967, 1972, 1974, Vienna Conf. on Diplomatic Relations 1961, Conf. of Cttee. on Disarmament 1962-63, Vienna Conf. on Law of Treaties 1966-67, Cttee on Peaceful Uses of the Sea-Bed 1973, Third UN Conf. on the Law of the Sea (second session) 1974; mem. Sixth Cttee. (Legal) of UN Gen. Assembly 1975-77. *Address:* c/o Ministry of Foreign Affairs, Addis Ababa, Ethiopia.

IBRAHIM, Sid Moulay Abdullah; Moroccan politician; b. 1918; ed. Ben Youssef Univ., Marrakesh and the Sorbonne, Paris; mem. Istiqlal (Independence) Party 1944-59; mem. Editorial Cttee. Al Alam (Istiqlal organ) 1950-52; imprisoned for political reasons 1952-54; Sec. of State for Information and Tourism, First Moroccan Nat. Govt. 1955-56; Minister of Labour and Social Affairs 1956-57; Prime Minister and Minister of Foreign Affairs 1958-60; leader Union Nationale des Forces Populaires 1959-. *Address:* Union Nationale des Forces Populaires, B.P. 747, Casablanca, Morocco.

IBRAHIMOV, Mirza Azhdar oglu; Soviet politician and writer; b. 5 Oct. 1911, Eva village, Sarab Machal, Iran; s. of Azhdar oglu Ibrahimi and Zohra Mamedbagir gyzy Ibrahimi; m. Zarahanum Ibrahimova 1938; one s. three d.; ed. Inst. of Oriental History, U.S.S.R. Acad. of Sciences; mem. CPSU 1930-; Minister of Educ., Azerbaijan 1942-47; Vice-Chair. Azerbaijan S.S.R. Council of Ministers 1947-50; Chair. of Azerbaijan S.S.R. Union of Writers 1948-57, First Sec. 1965-75; Chair. of the Supreme Soviet of the Azerbaijan S.S.R. 1954-58; Chair. Soviet Cttee. of Solidarity with Countries of Africa and Asia 1977-; mem. Acad. of Sciences of Azerbaijan; State prizewinner 1951; Red Banner of Labour; Order of Lenin (twice); Order of October Revolution 1971. *Publications:* plays: Hayat 1936, Madrid 1938, Mahabbeth 1942, Kendchi Kyzy 1962, Yakshy Adam 1965, Kezaran ochzhaglar 1967, Human Comedy of Don Juan 1977; novels: The Day Will Come 1955, Beyuk Dayag 1967, Parvane 1971; short stories: Fyrtyna Gushu 1966, On the Slopes of the Murovdag 1967; scholarly works: Beyuk democrat 1939, Hayat ve edebijath 1947, Halcilik ve realizm jabhesinden 1962, On the Laws of Beauty 1964, Realism in Ashug poetry 1966, Sketches on Literature 1971. *Leisure interests:* reading, music. *Address:* Writers' Union, 25 Khagany Baku, Azerbaijan S.S.R.; 19/13, Flat 23, Khagany Baku, Azerbaijan S.S.R., 370000 U.S.S.R. (Home).

IBUKA, Masaru; Japanese industrialist; b. 11 April 1908; ed. Waseda Senior High School and Waseda Univ.; Research Engineer, Photo-Chemical Lab. 1933-37; Man. Radio Telegraphy Dept., Japan Audio Optical Industrial Corpn. 1937-40; Man. Dir. Japan Measuring Apparatus Co. Ltd. 1940-45; Organizer, Tokyo Telecommunications Eng. Corpn. 1945- (Sony Corpn. since 1958), Pres., Man. Dir. 1950-71, Chair. 1971-76, Hon. Chair. and Chair. Exec. Advisory Cttee. 1976-; Chair. Japan Cttee. for Econ. Devt.; mem. Econ. Council; dir. several industrial asscns.; Blue Ribbon Medal 1960; Founders Medal, IEEE 1972; Hon. D.Sc. (Plano Univ.) 1974. *Address:* 7-35 Kitashinagawa 6-chome, Shinagawuku, Tokyo; 7-1-701 Mita 2-chome, Minatoku, Tokyo, Japan.

ICHIKAWA, Kon; Japanese film director; b. 1915; ed. Ichioka Commercial School, Osaka. *Films include:* Poo-San 1953, A Billionaire 1954, The Heart 1954, Punishment Room 1955, The Burmese Harp 1956, The Men of Tohoku 1956, Conflagration 1958, Fires on the plain 1959, The Key 1959, Bonchi 1960, Her Brother 1960, The Sin 1961, Being Two Isn't Easy 1962, The Revenge of Yuki-No-Jo 1963, Alone on the Pacific 1963, Tokyo Olympiad 1964, Seishun 1970, To Love Again 1971, The Wanderers 1973, Visions of Eight (co-dir.) 1973.

ICHIMADA, Hisato; Japanese financier and politician; b. 12 Aug. 1893; ed. Tokyo Univ.; served with Bank of Japan 1918-54; Pres. 1946-54; mem. of Japanese Del. to San Francisco Peace Conf. 1951; Minister of Finance 1954-56, 1957-58; mem. House of Reps. 1955-; Chair. Overseas Econ. Co-operation Special Cttee. of Liberal Democratic Party 1959-; Hon. Ph.D. (Syracuse Univ., (International Christian Univ.). *Address:* 5-30, 3-chome, Nishi-Azabon, Minatoku, Tokyo, Japan.

IDE, Ichitaro; Japanese politician; b. 1911; ed. Kyoto Univ.; mem. House of Reps.; Chair. House of Reps. Agric., Forestry and Fishery Affairs Cttee., also Budget Cttee.; fmr. Minister of Agric. and Forestry; Vice-Chair. Liberal-Democratic Party Foreign Affairs Research Council; Minister for Posts and Telecommunications 1970-71; Chief Cabinet Sec. 1974-76. *Address:* House of Representatives, Tokyo, Japan.

IDEMITSU, Keisuke; Japanese business executive; b. 1900; ed. Tokyo Commercial Coll.; Man. Dir. Idemitsu Kosan Co., Ltd. 1947, Sr. Man. Dir. 1950, Pres. 1966, Chair. 1972-77, Exec. Adviser April 1977-. *Address:* Idemitsu Kosan Co. Ltd., 1-1, 3-chome, Marunouchi, Chiyoda-ku, Tokyo, Japan.

IDEMITSU, Sazo; Japanese business executive; b. 22 Aug. 1885, Munakata-gun, Fukuoka-ken; s. of Toroku and Chiyo Idemitsu; m. Yasuko Yamauchi 1927; one s. four d.; ed. Kobe Commercial Coll.; founded Idemitsu Shokai 1911; Pres. Moji Chamber of Commerce 1933; Pres. Idemitsu Kosan Co., Ltd. (with which Idemitsu Shokai had merged) 1940-66, Chair. 1966-72, Hon. Chair. *Publications:* Fifty Years of Respecting Humanity 1962, If Karl Marx Had Been Born in Japan 1966, Capitalism and Working People 1969. *Leisure interests:* art collection, golfing. *Address:* c/o Idemitsu Kosan Co. Ltd., 1-1, 3-chome, Marunouchi, Chiyoda-ku, Tokya, Japan.

IDENBURG, Philippus Jacobus, DR.JUR.; Netherlands statistician and educationist; b. 26 Nov. 1901, Hillegersberg; s. of J. D. J. Idenburg and C. Th. Hoedemaker; m. 2nd S.C. Kohnstamm 1952; two s. three d. (by previous marriage); ed. Univs. of Amsterdam and Leiden; Sec. of a Govt. Efficiency Cttee. 1927-28; Chief of a Div. of Netherlands Cen. Bureau of Statistics 1929-38; Dir. of Bureau of Statistics 1939-45; Dir.-Gen. of Educ. 1946; Dir.-Gen. of Statistics 1947-66; Prof. of Educ., Univ. of Amsterdam 1966-71; fmr. Pres. Netherlands Arts Council, Netherlands Foundation for Statistics; Hon. D.Litt. (Durban). *Publications:* Books and articles on statistics and education. *Address:* Rue de l'Eglise 129, 6925 Fays-Famenne par Wellin, Belgium. *Telephone:* 084 388060.

IDHAM CHALID, Dr. Kyai Haji; Indonesian politician; b. 27 Aug. 1922, Amuntai, Kalimantan; ed. Islamic Teachers' Coll., Ponorogo, E. Java; Teacher 1943-47; M.P. of Repub. of United States of Indonesia 1948; mem. House of Reps. 1950; mem. Constituent Assembly 1956; Second Deputy Prime Minister 1956-59; mem. Supreme Advisory Council 1959- mem. Exec. Bd. of Nat. Front 1960, Deputy Chair. 1961; mem. and Deputy Chair. Provisional People's Consultative Assembly (MPRS) 1960-65; First Minister of Peoples' Welfare 1967-71; Chair. People's Consultative Assembly 1973-77; Speaker of House of Reps. 1973-77; Chair. Nahdlatul-'Ulama (Moslem Scholars' Party); Pres. Partai Persatuan Pembangunan (Devt. Unity Party) 1973-; Star of Yugoslav Flag, Medal of Honour (Egypt). *Address:* 51 Mangunsarkoro, Jakarta, Indonesia.

IDRIS I (Sayyid Muhammad Idris as-Sanusi); Former King of Libya; b. 13 March 1890; son of Sayyid Muhammad al-Mahdi; succeeded his uncle, Sayyid Ahmad Asharif Idris as-Sanusi, in charge of affairs of the Senusiya Order 1916; became Amir of Cyrenaica; proclaimed King of Libya 2 Dec. 1950; deposed 1 Sept. 1969; sentenced to death *in absentia* 1971. Now living in Egypt.

IDUARTE FOUCHER, Andrés, LL.D., D.PHIL.; Mexican writer; b. 1 May 1907, Villahermosa, Tabasco; s. of late Chief Justice and Prof. Andrés Iduarte Alfaro y Figueroa and Adela Foucher Paullada y Molina; m. Graciela Frías-Amescua 1932; no c.; ed. Univ. Nacional Autónoma de México, Univ. de Paris, Univ. Central de Madrid and Columbia Univ., N.Y.; Prof. of History, 1930-32; First Sec., Ibero-American Section, Ateneo, Madrid 1935-; Instructor in Spanish, Columbia Univ., N.Y. 1939-45, Asst. Prof. of Spanish American Literature 1945-50, Acting Dir. Univ. Hispanic Inst. 1949, First Cttee. for Rómulo Gallegos Int. Novel Contest 1967, Assoc. Prof. 1950-60, Full Prof. 1960-, Asst. Dir. 1955-65; mem. Cttee. for Rómulo Gallegos Int. Novel Contest 1967; Dir.-Gen. Nat Inst. of Fine Arts, Mexico 1952-54; Pres. Int. Inst. of Ibero-American Literature 1957-59; mem. Cuban Acad. of History 1946, Société Européenne de Culture 1950, Mexican Acad. of Int. Law 1967, Mexican Acad. of Language 1969; Corresp. mem. Spanish Acad. 1969; Dr. h.c. (Univ. de San Nicolás de Hidalgo, Mexico); several literary prizes; Orders of Céspedes (Cuba) 1946; C.B.E. 1953. *Publications:* El Himno a la sangre 1928, El Liberador Simón Bolívar 1930, El problema moral de la juventud mexicana 1931, El Caballero Matón 1932, Rebeldía y disciplina en Hostas 1940, Martí Escritor 1945, Retrato de Rubén Romero 1946, Sarmiento a través de sus mejores páginas 1949, Prosas de Martí 1950, Pláticas Hispanoamericanas 1951, Un Niño en la Revolución Mexicana 1951, Veinte Años con Rómulo Gallegos 1954, La Isla sin Veneno 1954, Sarmiento, Martí y Rodó 1955, Alfonso Reyes, el Hombre y su Mundo 1956, Gabriela Mistral, santa a la jineta 1958, Martín Luis Guzmán en sus libros 1960, Don Pedro de Alba y su Tiempo 1962, México en la nostalgia 1965, Tres escritores mexicanos 1967, Juárez, máximo simbolo 1967, El Mundo Sonriente 1968, Niño: Child of the Mexican Revolution (Trans.) 1971, Diez estampas mexicanas 1971, Lunes de El Nacional 1975. *Leisure interests:* horse riding, swimming, rowing. *Address:* Casa Hispánica, Columbia University, 612 West 116 Street, New York, N.Y. 10027, U.S.A.

IDZUMBUIR, Asal Bolumba; Zairian diplomatist; b. 9 Nov. 1930; ed. Lovanium-Kisantu Inst., Mayidi Seminary and Inst. of Int. Studies, Geneva; Minister Plenipotentiary, Perm. Rep. to UN 1963-72; Vice-Pres. UN Gen. Assembly 1967; Amb. to U.K. March-Sept. 1972; Dir. of Int. Orgs., Ministry of Foreign Affairs 1972-73; Amb. to Brazil 1973-76, to U.S.A. July 1976-77; Nat. Order of Leopard 1966. *Address:* c/o Ministry of Foreign Affairs, Kinshasa, Zaire.

IENG SARY; Cambodian politician; m. Ieng Thirith; ed. Paris; fmr. teacher; active in left-wing movements and forced to flee Phnom-Penh 1963; prominent in Khmer Rouge insurgent movement 1963-75; Khmer Rouge liaison officer to Royal Govt. of Nat. Union of Cambodia (GRUNC) in exile 1971-75; mem. Politburo Nat. United Front of Cambodia (FUNC) 1970-79; Second Deputy Prime Minister with special responsibility for Foreign Affairs, GRUNC 1975-79; in exile in Thailand.

IFE, H.H. ADEREMI I, The Oni Of: Sir Titus Martins Adesoji Tadeniawo Aderemi, K.C.M.G., K.B.E., P.C.; Nigerian administrator; b. 21 Nov. 1889, Ile-Ife; s. of Oshundeyi and Adekunbi; m. 1st 1910, others later (polygamous marriage); many c.; ed. C.M.S. School, Ife; joined Govt. railway construction staff 1909, Civil Service 1910; started trading and motor transport business 1921; Oni of Ife 1930-; founded Oduduwa Coll. (first secondary school for boys in Ife Div.) 1932; mem. House of Assembly, Western Nigeria 1946, Legislative Council, Nigeria 1947, Nigerian House of Reps. 1951-54; Cen. Minister without Portfolio 1951-55; mem. Nigerian Cocoa Marketing Bd. 1947; Dir. Nigerian Produce Marketing Co. Ltd. 1947; Del. to African Conf., London 1948, to Confs. for revision of Nigerian Constitution, London 1953, Lagos 1954, London 1957, 1958; led Nigerian del. to Coronation 1953; mem. Western House of Chiefs 1951-; Pres. House of Chiefs, Western Nigeria 1954-60; Gov. Western Region 1960-63; Chair. Council of Obas and Chiefs, Western Nigeria 1966-; Hon LL.D. (Univ. of Ife) 1975. *Leisure interests:* tennis and hunting game. *Address:* The Aafin, P.O. Box 1, Ile-Ife, Oyo State, Nigeria. *Telephone:* 2001.

IGLER, Hans, D.ECON.; Austrian business administrator; b. 29 July 1920, Vienna; s. of Robert Igler and Maria (née Seidel); m. Dorothea Monti 1948; one s. three d.; ed. Hochschule für Welthandel, Vienna; Mil. service until 1945, Marshall Plan consultant in Fed. Ministry of Property Control and Econ. Planning 1946-50; Head ERP Office, Fed. Chancellery 1950-55; Chair. Bd. Man. Dirs. Österreichische Industrie-u. Bergbauverwaltungsges. m.b.H. (holding for nationalized industries) 1956-59; Consultant to Govt. of

Chile for UN and FAO econ. programme 1959; Partner, Bankhaus Schoeller & Co. and Gebr. Schoeller, Vienna 1960-; Pres. Fed. of Austrian Industrialists 1972-; Chair. Austro-Olivetti Büromaschinen AG, Elin-Union AG für elektrische Industrie, Kabel & Drahtwerke AG, Vienna; Dir. Österr. Mineralölverwaltung AG, Vienna, Gebrüder Böhler & Co. AG, Vienna, Wertheim AG, Vienna, Österr. Stickoffwerke AG, Linz, Wiener Starkstromwerke GmbH, Vienna, Leipnik-Lundenburger Zuckerfabriken AG, Vienna, Kosmos AG, Vienna; mem. Österr. Inst. für Wirtschaftsforschung, Vienna; mem. Bd. Man. Dirs. Deutsche Handelskammer, Vienna. *Address:* 1010 Wien I, Renngasse 3, Austria. *Telephone:* 63-56-71.

IGLESIAS, Enrique V.; Uruguayan international official; b. 26 March 1930; ed. Univ. de la República, Montevideo; held several positions including Prof. Agregado, Faculty of Political Economy, Prof. of Econ. Policy and Dir. Inst. of Econs., Univ. de la República, Montevideo 1952-67; Sec.-Gen. Sugar Comm. of Uruguay 1959-60; Technical Dir. Nat. Planning Office of Uruguay 1961-65; Pres. (Gov.), Banco Central del Uruguay 1967-69; Pres. Gov. Council, Latin American Inst. for Econ. and Social Planning (ILPES), UN 1967-71; Adviser, Inter-American Devt. Bank 1968-70; Rapporteur, FAO World Food Conf. 1970; Head, Advisory Mission on Planning, Govt. of Venezuela 1970-71; Adviser UN Conf. on Human Environment 1971-72; Exec. Sec. Econ. Comm. for Latin America (ECLA) 1972-; Acting Dir.-Gen. Latin American Inst. for Econ. and Social Planning 1973-78; Pres, Third World Forum 1973-76; mem. Steering Cttee., Soc. for Int. Devt. 1973-. *Address:* Economic Commission for Latin America, Casilla 179D, Santiago, Chile.

IGNACIO-PINTO, Louis, D. ÈS D., D. ÈS L.; Benin diplomatist and judge; b. 1903, Porto-Novo; s. of the late Ignacio Pinto and Angelia da Silva; m. Josephine Antoinette Lake 1942; one s. two d.; ed. Ecole St. Gènes, Bordeaux and Univs. of Bordeaux and Paris; teacher, Collège Tivoli, Bordeaux 1927-28; Officer-Cadet 1931-32; engaged in starch manufacture 1933-36; jr. counsel, Paris Court of Appeal 1937-39; war service in Lorraine 1939-40; Counsel, Conakry 1940-46; resistance worker; Rep. of Dahomey to French Senate 1946-56; Vice-Pres. Comm., France d'Outre Mer 1946-56; Minister of Econs., Commerce and Industry, Dahomey 1957-58, Minister of Justice 1958-59; returned to legal profession 1959; Counsellor, French Embassy, Vatican City 1960; Amb. of Dahomey to UN, New York 1960-67, to U.S.A. 1960-67; Pres. of Supreme Court of Dahomey 1967-69; Co-Pres. Cttee. of Seven for Reform of UN Secr. 1968; Judge, Int. Court of Justice, The Hague 1969-79; Judge Admin. Tribunal of UN. *Address:* BP 216, Cotonou, Benin.

IGNATIEFF, George, C.C., LL.D., D.C.L., M.A., D.D.; Canadian diplomatist; b. 16 Dec. 1913, St. Petersburg, Russia; s. of Count Paul Ignatieff and Princess Natalie Mestchersky; m. Alison Grant 1945; two s.; ed. Jarvis Coll. Inst., Toronto, Univs. of Toronto and Oxford; Dept. of External Affairs, Ottawa 1940-, 1944-45; Third Sec., London 1940-44; Adviser, Canadian Del., UN Atomic Energy Comm. 1946, UN Assembly 1946-47; Alt. Rep. UN Security Council 1945-49; Chair. Admin. and Budgetary Cttee., UN Gen. Assembly 1949; Counsellor, Washington 1949-53; attended Imperial Defence Coll., London 1953-54; Head of Defence Liaison (First Div.) Dept. of External Affairs, Ottawa 1955; Amb. to Yugoslavia 1956-58; Dep. High Commr., London 1959-60; Asst. Under-Sec., Dept. of External Affairs, Ottawa 1960-62; Perm. Rep. and Amb. to NATO 1962-66; Perm. Rep. to UN 1966-68, Rep. of Canada to 18 Nation Disarmament Cttee., Geneva 1968-72; Provost, Trinity Coll., Toronto 1972-78; Hon. Fellow. St. John's Coll., Winnipeg; Chair. Bd. of Trustees, Nat. Museums of Canada 1973-78; mem. Governing Council, Univ. of Toronto 1974-75; hon. degrees from several Canadian and foreign univs.; Centenary Medal. *Leisure interest:* gardening. *Address:* c/o Trinity College, Toronto, M5S 1H8, Canada.

IGNATIUS, Paul Robert; American business executive; b. 11 Nov. 1920; m. Nancy Sharpless Wiser 1947; two s. two d.; ed. Univ. of Southern California and Harvard Business School; Instructor in Business Admin., Harvard Business School 1947-50; Vice-Pres., Dir. Harbridge House Inc. (man. consultants), Boston 1950-61; Asst. Sec. of Army for Installations and Logistics 1961-63; Under-Sec. of Army 1964; Asst. Sec. of Defence 1964-67; Sec. of Navy 1967-69; Pres. The Washington Post 1969-71; Exec. Vice-Pres. Air Transport Assen. of America 1972, Pres. and Chief Exec. Officer Dec. 1972-; U.S. Naval Reserve 1943-46. *Leisure interests:* tennis, swimming, skiing. *Address:* The Air Transport Association, 1709 New York Avenue, N.W., Washington, D.C. 20006; 3650 Fordham Road, Washington, D.C. 20016, U.S.A. (Home).

IHNATOWICZ, Zbigniew; Polish architect; b. 20 July 1906, Postawy, near Vilnius; ed. Warsaw Polytechnic; mem. of Polish Assen. of Architects (SARP) 1934-, mem. Council 1961-; Extraordinary Prof., Acad. of Fine Arts, Warsaw; Head, Dept. of Gen. Planning; First Prizes for urban design in Lublin, Cen. Commercial Centre in Warsaw, Stadium for 10th Anniversary of People's Poland, Church of Sochaczew; State Prize, 2nd Class 1955; Hon. Prize of SARP 1969; Minister of Culture and Arts Prize 1974, Pres. of Council of Ministers Prize 1978; Silver Cross of Merit 1953, Gold Cross 1957, Officer's Cross, Order of Polonia Restituta 1964, Medal of 30th Anniversary of People's Poland 1974. *Address:* Ul. Mokotowska 31 m. 15, 00-560 Warsaw, Poland.

IIDA, Keizo; Japanese retail executive; b. 13 April 1900, Osaka City; m. Miyoko 1931; one s.; ed. Keio Univ.; Osaka Branch, Takashimaya Dept. Store 1926, Man. 1941, Dir. Takashimaya 1942-, Man. Dir. 1943-52, Pres. 1952-60, now Chair. *Leisure interest:* painting. *Address:* 1-2-18, Hibarigaoka, Takarazuka City, Hyogo Pref., Japan.

IKEDA, Daisaku; Japanese religious leader; b. 2 Jan. 1928, Tokyo; s. of Nenokichi and Ichi Ikeda; m. Kaneko Shiraki 1952; three s.; ed. Fuji Junior Coll.; Pres. Soka Gakkai 1960-; Founder of Soka Junior and Senior High Schools, of Soka Univ., Min-on Concert Assen., Oriental Inst. of Academic Research, Fuji Art Museum 1973; Pres. Nichiren Shoshu Soka Gakkai Int. 1975-. *Publications:* (Japanese) Human Revolution Vols. I-IX 1965-76, Science and Religion 1965, Family Revolution 1966, A Youthful Diary Vols. I-V 1967-73, Essays on Life 1970, Modern Civilization and Religion 1972, Civilization, East and West—Dialogue with Richard Coudenhove-Kalergi 1972, My View on Sakyamuni 1973, Dialogue on Life Vols. I-III 1973-74, Essays on Women 1974, Dialogue Toward the 21st Century (with Arnold Toynbee) 1975; (English) The Human Revolution Vols. I-III 1972-76, Buddhism: The Living Philosophy 1974, The Living Buddha 1976, Choose Life (The Toynbee-Ikeda Dialogue) 1976, Dialogue on Life—Buddhist Perspectives on Life and Universe Vols. I-II 1976-77, Buddhism, the First Millennium 1977, other writings on Buddhism, civilization, life and peace. *Leisure interests:* music, art, travelling. *Address:* c/o The Soka Gakkai, 32 Shinano-machi, Shinjuku-ku, Tokyo 160, Japan. *Telephone:* 353-7111.

IKEURA, Kisaburo, B.L.; Japanese banker; b. 21 April 1916, Wakayama Prefecture; s. of Kunitaro and Sae Ikeura; m. Sumi Ueda 1944; one s. one d.; ed. Tokyo Univ.; joined Industrial Bank of Japan Ltd. 1939, Dir. 1964, Man. Dir. 1965, Deputy Pres. 1973, Pres. 1975-. *Leisure interests:* travelling, reading. *Address:* 3-3 Marunouchi 1-chome, Chiyoda-ku, Tokyo; 22-12, 4-chome Numabukuro, Nakano-ku, Tokyo, Japan (Home). *Telephone:* 214-1111 (Office); 386-1443 (Home).

IKLÉ, Fred Charles, M.A., PH.D.; American social scientist and government official; b. 21 Aug. 1924, Samaden, Switzerland; m. Doris Eisemann 1959; two d.; ed. Univ. of Chicago; research scholar, Bureau of Applied Social Research, Columbia Univ. 1950-54; Consultant to Nat. Research Council 1950-54; mem. Social Science Dept., Rand Corpn. 1955-61; Surprise Attack Conf. and Antarctica Conf. preparations 1956-58; Research Assoc. in Int. Relations, Centre for Int. Affairs, Harvard Univ. 1962-63; Assoc. Prof., then Prof. of Political Science, M.I.T. 1963-67; Head of Social Science Dept., Rand Corpn. 1968-73; Dir. U.S. Arms Control and Disarmament Agency 1973-77; mem. Bd. International Peace Acad.; Chair. Council on Nat. Security of Republican Nat. Cttee.; Rockefeller Fellowship 1953, 1962; U.S. Defense Dept. Distinguished Public Service Award. *Publications:* The Social Impact of Bomb Destruction 1958, Nth Countries and Disarmament 1960, After Detection . . . What? 1961, How Nations Negotiate 1964, Every War Must End 1971, Can Social Predictions be Evaluated? 1967, Social Forecasting and the Problem of Changing Values 1971, Can Nuclear Deterrence Last Out The Century? 1973, and many articles on int. affairs and negotiations. *Address:* 7010 Glenbrook Road, Washington, D.C. 20014, U.S.A. *Telephone:* (301) 951-0278.

ILANGARATNE, Tikiri Bandara; Ceylonese politician, writer, playwright, novelist; b. 27 Feb. 1913, Hatarliyadda; s. of Mr. and Mrs. T. A. Ilangaratne; m. Tamara Kumaria Aludeniya 1944; two s. two d.; ed. St. Anthony's Coll., Kandy; clerical posts until 1947; M.P. for Kandy 1948, for Galaha 1952; Gen. Sec. Sri Lanka Freedom Party 1954-; M.P. for Hewaheta 1956; Minister for Social Services and Housing 1956-59, of Home Affairs 1959, of Trade, Commerce, Food and Shipping 1961-63, of Finance 1963-64, of Trade and Supplies 1964-65; Vice-Pres. Sri Lanka Freedom Party 1966, M.P. for Kolonnawa 1967; responsible for nationalizing foreign oil companies in Sri Lanka; Minister of Foreign and Internal Trade 1970-77, Public Admin. and Home Affairs Sept. 1975-77. *Publications:* (in Sinhalese): Novels: Wilambeeta, Denuwara, Kathava, Thilaka, La Sanda, Thilaka and Thilaka, Nedeyo; Plays: Häramitiya, Man-

thri Hamuduruwo, Jataka Natyaya, Rangamandala, Handahana, Ambaryaluwo, Malsarawa, Mangala, Delova Sihina, Wivena Ginna; short stories: Onchillawa. *Address:* Sri Lanka Freedom Party, 407 Galle Road, Colombo, Sri Lanka.

ILEO SONGOAMBA; Zairian politician; b. (as Joseph Ileo) 15 Sept. 1921, Léopoldville (now Kinshasa); m. Elisabeth Bongo; five s. five d.; studied philosphy and sociology in Europe; held post in African Territories Div. of Belgian Gov.-Gen's Office; active in movement for independence, signatory of the "Memorandum of the Sixteen" 1958; formed Congolese Nat. Movement Party with Patrice Lumumba; joined Abako Party 1959; fmr. Ed. The African Conscience; Head of Congolese Senate July-Sept. 1960; Premier 1960-61; Minister of Information and Cultural Affairs 1961-62; Minister without Portfolio in charge Katangese Affairs 1963-64; now mem. Political Bureau, Mouvement populaire de la révolution, mem. Perm. Cttee. 1975-; Pres. Office Nat. de la Recherche et du Développement. *Address:* B.P. 3474, Kinshasa, Zaire. *Telephone:* 2452.

ILIESCU, Ion; Romanian politician ; b. 3 March 1930, Oltenita, Ilfov District; m. Elena Iliescu; ed. Bucharest Polytechnic Inst., and Moscow; Member of Union of Communist Youth (U.C.Y.) 1944; mem. Romanian CP 1953-; mem. Cen. Cttee. of U.C.Y. 1949-71, Sec. 1956-71; Pres. of Union of Student Asscns. 1957-60; Alt. mem. Cen. Cttee. of RCP 1965-68, mem. 1968-; First Sec. Cen. Cttee. of U.C.Y. and Minister of Youth Problems 1967-71; Alt. mem. of Exec. Cttee. of Cen. Cttee. of RCP 1969-; mem. Bureau of Nat. Council of Socialist Unity Front 1968-72; Sec. CP Cttee., Timiş County 1971-74; mem. Nat. Assembly 1957-; mem. Acad. of Social and Political Sciences 1970-; First Sec. CP Cttee., Jassy County 1974-. *Address:* Central Committee of the Romanian Communist Party, Bucharest, Romania.

ILLIA, Arturo Umberto; Argentine physician and politician; b. 1901; fmr. Provincial Senator; fmr. Vice-Gov. Córdoba Province; Pres. of Argentina 1963-66 (deposed by mil. coup); mem. Unión Cívica Radical.

ILLICH, Ivan PH.D.; American educator and writer; b. 4 Sept. 1926, Vienna, Austria; ed. Gregorian Univ., Rome, Univ. of Salzburg; went to U.S.A. 1951; Asst. Pastor in New York; Vice-Rector Catholic Univ. of Puerto Rico 1956-60; Co-Founder Center for Intercultural Documentation (CIDOC), Cuernavaca, Mexico; Lecturer, Dept. of Political Science, Fordham Univ. (Pres. 1963-68, mem. 1968-, researcher 1973-). *Publications:* Celebration of Awareness 1969, Deschooling Society 1971, Tools for Conviviality 1973, Energy and Equity 1973, Medical Nemesis 1975, The Right to Useful Unemployment 1979, contributed to Esprit, Temps Modernes, Kursbuch, New York Review of Books, New York Times, Le Monde. *Address:* Center for Intercultural Documentation, Apdo. 479, Cuernavaca, Mexico. *Telephone:* 3-0366.

ILLUECA, Jorge E., LL.D.; Panamanian diplomatist; b. 17 Dec. 1918, Panama City; m.; four c.; ed. Univ. de Panamá, Harvard Law School, Univ. of Chicago; Professor, Univ. de Panamá 1962-63, 1966-68; Pres. Nat. Bar Assn. 1963-64, 1966-68; Dir. El Panamá América (newspaper) 1963-64, 1967-68; Special Amb. to U.S.A. to begin negotiations for new Panama Canal Treaty 1964, Special Envoy for negotiations on the treaty 1972; mem. del. to UN Gen. Assembly 1957, 1961, 1975, also to 3rd Special Emergency Session; Head of del. to 1st Session of 3rd UN Conf. on Law of the Sea 1974, mem. del to 4th Session 1976; Deputy Perm. Rep. to UN 1957, Perm. Rep. 1960, May 1976-; mem. Perm. Court of Arbitration, The Hague, Netherlands 1974-. *Address:* Permanent Mission of Panama to the United Nations, 866 United Nations Plaza, Room, 544-545, New York, N.Y. 10017, U.S.A.

ILLYÉS, Gyula; Hungarian author; b. 2 Nov. 1902, Rácegres; s. of János Illyés and Ida Kállay; m. Dr. Flora Kozmutza 1939; one d.; fmr. ed. Nyugat, Magyar Csillag and Válasz; Vice-Pres. of PEN Int. 1970-; awarded Kossuth Prize 1948, 1953 and 1970, Grand Prix de Poésie, Knokke (Belgium) 1965; Herder-Preis, Hamburg-Vienna 1970; Prix des Amitiés françaises, Paris 1978; Red Banner Order of Labour 1972, Commdr. Ordre des Arts et Lettres (Paris) 1974. *Publications:* Puszták Nepe (English, French, German, Finnish, Japanese, Russian, Czech, Polish, Bulgarian trans.), Petöfi (trans.), Magyarok, Lélek és Kenyér, Kora tavasz, A tü foka, Hunok Párizsban, Lélekbuvár, Osszes Versei, Az Ozorai Példa, Fáklyaláng, Dózsa, Kézfogások, Uj Versek, Ebéd a kastélyban (French, German trans.), Nem volt elég, Másokért egyedül, Nyitott kapu, Szives kalauz, Poèmes choisis, Ingyen Lakoma, Dölt Vitorla, Poètes d'aujourd'hui, Poharaim, Feketefehér, Kháron ladikján (trans.), Hajszálgyökerek, Malom a Séden, Tiszták, Bölcsek a fán, Selected Poems, Le favori, Hommage à Gyula Illyés, Due Mani (Italian), Minden Lehet, Abbahagyott versek, Poesie di Gy. I. Haza a magasban, Teremteni, Testvérek, Dupla vagy semmi, Orfeusz a Felvilágban-Tribute to Gy. I, Itt èlned kell, Dániel az övèi közt, Ordning i ruinerna, Dikt i utvel, Különös testamentum. *Leisure interest:* gardening. *Address:* Józsefhegyi u. 9, H-1025 Budapest II, Hungary.

ILYASHENKO, Kirill Fyodorovich; Soviet politician; b. 1915; ed. Tiraspol Pedagogical Inst.; Soviet Army 1940-45; mem. CPSU 1945-; Chair. State Cttee. for Co-ordination of Scientific and Research Work, Council of Ministers of Moldavian S.S.R. and Deputy Chair. of Council of Ministers of Moldavian S.S.R. 1962-63; Chair. of Presidium of Supreme Soviet of Moldavian S.S.R. 1963-; mem. Bureau of Cen. Cttee. of CP of Moldavia 1963-; mem. Cen. Auditing Comm. CPSU 1966-71; Cand. mem. CPSU Cen. Cttee. 1971-; Deputy Chair. Presidium of Supreme Soviet of U.S.S.R. 1966-. *Address:* Presidium of Supreme Soviet of Moldavian S.S.R., Kishinev, U.S.S.R.

ILYICHEV, Leonid Fyodorovich; Soviet journalist and politician; b. 15 March 1906, Krasnodar; ed. North Caucasian Communist Univ. and Inst. of Red Profs., Moscow; worker at a factory, Krasnodar 1918-24; Young Communist League work 1924-27; student and asst. teacher, North Caucasian Communist Univ. 1930-31; party work 1931-34; Sec. Bolshevik Journal 1938-40; mem. staff Pravda 1940-44, Deputy Ed.-in-Chief, later Ed.-in-Chief 1949-52; Ed.-in-Chief Izvestia 1944-48; on staff CPSU Cen. Cttee. 1948-49; Dir. Press Dept., Ministry of Foreign Affairs 1953-58; Dir. CP Agitation and Propaganda Service 1958-61; Sec. Cen. Cttee. of CPSU 1961-65, mem. 1961-66; Deputy Foreign Minister of U.S.S.R. 1965-; mem. U.S.S.R. Acad. of Sciences 1962-; Lenin Prize 1960, Order of Lenin, Order of October Revolution and other decorations. *Publications:* On the Role of the Individual in History 1941, Progress of Science and Technology on International Relations 1958, Scientific Foundation of the Management of the Development of Society. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

ILYIN, Vitaliy Sergeyevich; Soviet biochemist; b. 1904, Dzambai Village, Kazakhstan; s. of Sergey Petrovich Ilyin and Eugenia Ivanovna Ilyina; m. Olga Yalmarovna Tawastsherna; one s. two d.; ed. First Leningrad Medical Inst.; Research worker, Inst. of Natural Sciences 1927-40; Sr. Research Worker, Leningrad Inst. of Blood Transfusion 1933-39; Head of Dept., Deputy Dir. Tajik Medical Inst. 1940-45; Sr. Research Worker, Pavlov Inst. of Physiology 1945-50; Head, Dept. of Biochemistry, Leningrad Inst. of Stomatology 1945-51; Head of Dept., Inst of Experimental Medicine, U.S.S.R. Acad. of Medical Sciences, and Head of Dept., Leningrad Inst. for Postgraduate Medical Training 1951-; mem. U.S.S.R. Acad. of Medical Sciences 1966-; Editor of Chem. Dept. of Great Medical Encyclopaedia and mem. Editorial Bds. of Evolutional Biochemistry and Physiology, Biochemistry, Aspects of Medical Chemistry and Biochemical Medicine U.S.A.; Order of Red Banner of Labour 1951. *Publications:* Over 160 works on cellular and molecular mechanisms of hormonal and nervous regulation of metabolism. *Leisure interest:* music. *Address:* Institute of Experimental Medicine, 69/71 Kirovsky Prospekt, Leningrad (Office); Fontanka 26, ap. 49, Leningrad, 192028 U.S.S.R. (Home). *Telephone:* 73-45-59; 32-06-41.

IMADY, Dr. Mohammed; Syrian economist and planner; b. 1 Dec. 1930, Damascus; s. of Omar Imady and Yosra Hawasly; m. Mildred Elen Imady 1958; ed. Damascus Secondary School, Damascus Univ. and New York Univ.; Deputy Minister of Planning 1968-72, Minister 1972; Minister of Economy and Foreign Trade Dec. 1972-; Pres. Arab Econ. Soc. 1974-75, Syrian Econ. Soc. 1976; Chair. Bd. of Govs. IMF, IBRD 1975-76; Founders Day Award (New York Univ.). *Publication:* Economic Development and Planning (textbook in Arabic for Damascus Univ.) 1968. *Address:* Ministry of Economy and Foreign Trade, Damascus (Office); Tijara, Korneish Barzeih, The New Way, Damascus, Syria (Home).

IMAI, Kenji; Japanese architect; b. 11 Jan. 1895, Tokyo; s. of Chogoro and Ine Imai; m. Maria Jeanne d'Arc Shizuko 1928 (died 1947); one s.; ed. Architectural Dept., Waseda Univ., Tokyo; Asst. Prof. Waseda Univ. 1920-37, Prof. 1937-65, Hon. Prof. 1965-; Prof. Kantö Gakuin Univ., Yokohama 1966; Hon. Counsellor Tama Fine Arts Univ., Tokyo 1965-; studied in Europe and America 1926-27; mem. Catholic Art Soc, 1949-; Rep. of Japan Branch of Gaudi Friend Circle 1956, participated in 10th Anniversary of Antonio Gaudi Friend Circle, Barcelona 1963; Hon. mem. Rudolf Steiner Goetheanum 1963; one-man exhbn. of European sketches 1964; Prize of Architectural Inst. of Japan 1959, 1962; Marquis Ohkuma Academic Prize, Waseda Univ. 1962; Japan Art Acad. Prize 1966. *Major works include:* Waseda Univ. Library 1925, Waseda Univ. Museum of Drama 1928, sculptor Rokuzan Art Museum, Japanese Alpen Town Hotaha-machi, Nagano Pref. 1938, Aeroplane Monu-

ment, Tokyo 1941, Ohtakimachi Town Office, Chiba Pref. 1959, Memorial Centre for Japanese 26 Martyrs, Nagasaki Pref. 1962, Chapel for Sisters of the Visitation Convent (Kamakura) 1965, Toka Gakudo—The Empress' Memorial Music Hall, Imperial Palace 1966, Marquis Ohkuma Memorial Hall, Saga Pref. 1966, Toyama Memorial, Fine Arts Museum, Kawagoe Prefecture 1970. *Publications:* Gunnar Asplund 1930, Das Vorbild der Katholischen Gattin—Architecture and Humanity 1954, Öryo Sobyö (Sketch of Travel through Europe) 1963, Tabiji (Voyage) 1967; collection of artistic works in commemoration of 70th birthday 1968. *Leisure interests:* sketching, sculpture. *Address:* 4-12-28, Kitazawa, Setagaya-ku, Tokyo, Japan. *Telephone:* 03-468-2708.

IMBERT, Bertrand Sainclair Maire; French hydrographic engineer and naval officer; b. 23 Oct. 1924; ed. Collège Saint-Martin de France and Collège Sainte Geneviève; entered Free French Navy, Ecole Navale 1943; served in Indo-China Campaign 1945-47; Antarctic expeditions 1951, 1956 and 1957; Principal Marine Nationale; Chief of French Antarctic Expeditions of the Int. Geophysical Year 1956-59; mem. Atomic Energy Comm. 1959-69; Asst. Man. Dir. Control-Data France 1969, Man. Dir: 1970-; Croix de guerre, Chevalier, Légion d'honneur. *Address:* 8 rue de l'Odéon, 75006 Paris, France.

IMRU HAILE SELASSIE, Lij Mikhail; Ethiopian politician; b. 1930; ed. Oxford Univ., England; fmr. Dir.-Gen. Ministry of Defence and mem. Planning Bd., Ministry of Agriculture; fmr. Amb. to U.S., then to U.S.S.R.; Head Ethiopian mission to UN Office, Geneva until 1974; Minister of Commerce and Industry March 1974; Minister in the Prime Minister's Office in charge of Econ. and Social Affairs April-July 1974, Prime Minister July-Sept. 1974; Minister of Information 1974-75; Chief Pol. Adviser to Head of State 1975-76.

IMSHENETSKY, Aleksandr Aleksandrovich; Soviet microbiologist; b. 8 Jan. 1905, Kiev; ed. Voronezh State Univ.; Teacher of Microbiology, Leningrad Chemico-Tech. Inst. 1932-34; Sr. Scientific Worker, Inst. of Microbiology, U.S.S.R. Acad. of Sciences 1932-41, Head of Dept. 1941-, Deputy Dir. 1945-49, Dir. 1949-; Prof. of Microbiology, Piscicultural Faculty, Timiryazev Agricultural Acad. 1935-37; corresp. mem. U.S.S.R. Acad. of Sciences 1946-62, mem. 1962-; First Pres. (and Founder) U.S.S.R. Microbiological Soc. 1960; Editor Microbiology; Order of Lenin (twice), Order of Red Banner of Labour (twice), Hero of Socialist Labour; Pasteur Medal and other decorations. *Publications:* The Structure of Bacteria 1940, Microbiological Processes at High Temperatures 1944, Microbiology of Celluloses 1953, Morphology of Bacteria 1962, Perspectives for the Development of Exobiology 1963, On the Multiplication of Xerophilic Micro-organisms under Simulated Martian Conditions 1973, Detection of Extra-Terrestrial Life by Radiometric Techniques 1974, Microbiological Research in Space Biology 1974, On Micro-organisms of the Stratosphere 1975, Biological Effects of Extreme Environmental Conditions 1975. *Address:* Institute of Microbiology of the U.S.S.R. Academy of Sciences, Profsoyuznaya ul. 7, Moscow, U.S.S.R.

INABA, Osamu; Japanese politician; b. 1910; ed. Chuo Univ.; Prof. of Law, Chuo Univ.; mem. House of Reps. for Niigata Pref. 1947-; fmr. Parl. Vice-Minister of Educ.; Vice-Chair. Policy Affairs Research Council of Liberal Democratic Party; Minister of Educ. July-Dec. 1972, of Justice 1974-76. *Address:* c/o Ministry of Justice, Tokyo, Japan.

INAGAKI, Hiroshi; Japanese film director; b. 1905, Tokyo; s. of Tomejiro Inagaki and Ei Inagaki; m. 1930; three s. two d.; began career in films as actor, subsequently script-writer 1941; Asst. to Teinosuke Kinugasa 1927; Director 1928-; at present under contract to Toho Film Co.; mem. Bd. Motion Picture Directors' Assn. of Japan; Ministry of Education Awards for Edo Saigo No Hi 1942, and Te O Tsunagu Kora 1948; Ministry of Welfare Award for Wasurerareta Kora 1950; American Motion Picture Acad. Award for Samurai (a different film from The Seven Samurai) 1956; Venice Film Festival Grand Prix, Tokyo Gold Prize and Sankei Silver Star Prize for Muhomatsu No Issho 1957; Ministry of Educ. Awards for Fu Rin Ka Zan 1970. *Films include:* Tenka Taiheiki, Edo Saigo No Hi (The Last Days of Edo), Te O Tsunagu Kora (Children Holding Hands Together), Wasurerareta Kora (Neglected Children), Samurai, Muhomatsu No Issho (The Rickshaw Man). *Address:* No. 7-10-5, Seijyo, Setagaya-ku, Tokyo, Japan. *Telephone:* Tokyo 483-0845.

INAMURA, Sakonshiro; Japanese politician; worked as newspaper boy, longshoreman, labourer, foreman; mem. House of Reps. 1963-; fmr. Deputy Minister for Int. Trade and Industry; Minister of State, Dir.-Gen. Prime Minister's Office and Okinawa Devt. Agency 1977-78; Liberal-Democratic Party. *Address:* c/o Office of the Prime Minister, 6-1 Nagatacho 1-chome, Chiyoda-ku, Tokyo, Japan.

INAYAMA, Yoshihiro; Japanese steel executive; b. 2 Jan. 1904, Chuo-ku, Tokyo; m. Tsuru Inayama 1929; three s.; ed. Tokyo Univ.; Yawata Works, Yawata Iron and Steel Co., Ltd., Man. Dir. 1950-60, Vice-Pres. 1960-61, Pres. 1961-70; also Pres. Japan Iron and Steel Federation; Chair. Japan Steel Exporters Assn.; Vice-Pres. Japan Fed. of Econ. Orgs.; Chair. Int. Iron and Steel Inst. 1971-73, Vice-Chair. 1973-76; Pres. Nippon Steel Corpn. 1970-73, Chair. 1973-; Medal of Honour with Blue Ribbon 1962; First Order of Merit with Order of the Sacred Treasure. *Leisure interests:* golf, "Tokiwazu" (Japanese classical ballad). *Address:* Nippon Steel Corp., 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100 (Office); 28-8, 1-chome, Daizawa, Setagaya-ku, Tokyo, Japan (Home). *Telephone:* (Home) 421-0533.

INBAL, Eliahu; British/Israeli conductor; b. 16 Feb. 1936, Jerusalem; s. of Jehuda Joseph and Leah Museri Inbal; m. Helga Fritzsche 1968; one s.; ed. Acad. of Music, Jerusalem, Conservatoire National Supérieur, Paris; From 1963 guest conductor with numerous orchestras including Milan, Rome, Berlin, Munich, Hamburg, Stockholm, Copenhagen, Vienna, Budapest, Amsterdam, London, Paris, Tel-Aviv, New York, Chicago, Toronto and Tokyo; Chief Conductor, Radio Symphony Orchestra, Frankfurt 1974-; has made numerous recordings. *Leisure interests:* music, photography. *Address:* Hessischer Rundfunk, Bertramstrasse 8, 6000 Frankfurt, Federal Republic of Germany. *Telephone:* 0611/ 1552371.

INCER BARQUERO, Roberto; Nicaraguan economist and banker; b. 10 April 1933; s. of Armando Incer and Lucina Barquero de Incer; m. Marisa Pereira Deshon 1968; two s.; ed. Universidad Nacional Autónoma de Nicaragua, George Washington Univ., Yale Univ., and London School of Econs.; Economist, Econ. Research Dept., Cen. Bank of Nicaragua 1960-65; Exec. Sec. Nat. Cotton Comm. 1965-67; Sec. to Presidency of Repub. of Nicaragua 1967-69; Pres. Cen. Bank of Nicaragua 1969-; Great Cross, Order of Merit (Fed. Repub. Germany), Order of Henry the Navigator (Portugal), Order of the Brilliant Star (China), Orden de Rubén Darío Gran Cruz Placa de Plata. *Leisure interests:* baseball, photography. *Address:* Banco Central de Nicaragua, Apdos. 2252/3, Managua, Nicaragua. *Telephone:* 50501/3.

INCHCAPE, 3rd Earl of; **Kenneth James William Mackay,** M.A.; British company executive; b. 27 Dec. 1917, Uckfield, Sussex; s. of 2nd Earl of Inchcape and Joan Moriarty; m. Mrs. Aline Thorn Hannay 1941, (divorced 1954); two s. one d.; m. 2nd. Caroline Cholmeley 1965; two s.; one adopted s.; ed. Eton, Trinity Coll. Cambridge. Chairman of Inchcape and Co. Ltd. 1958-; Chair. P. & O. Steam Navigation Co. 1973-; Dir., Standard Chartered Bank Ltd., Guardian Royal Exchange Ltd., British Petroleum Co. Ltd.; Pres. Gen. Council of British Shipping 1976-77, of Royal Soc. for India, Pakistan and Ceylon 1970-76, and of Commonwealth Soc. for the Deaf; Prime Warden Fishmongers Co. 1977-78. *Leisure interests:* shooting, fishing, riding. *Address:* Inchcape and Co. Limited, 40 St. Mary Axe, London, EC3A 8EU (Office); Quendon Park, Saffron Walden, Essex, England (Home). *Telephone:* 01-283 4680 (Office).

INCHYRA, 1st Baron (cr. 1962), of St. Madoes in the County of Perth; **Frederick Robert Hoyer Millar,** G.C.M.G., C.V.O.; British diplomatist; b. 6 June 1900, Montrose, Scotland; s. of R. Hoyer Millar; m. Elizabeth de Marees van Swinderen 1931; two s. two d.; ed. Wellington Coll. and New Coll., Oxford; Hon. Attaché Brussels 1922; entered Diplomatic Service 1923; served as Third Sec. Berlin and Paris, Second Sec. Cairo; Asst. Private Sec. to Sec. of State for Foreign Affairs 1934-38; First Sec. Washington 1939, Counsellor 1941-42; Sec. British Civil Secr., Washington 1943; Counsellor, Foreign Office 1944, Asst. Under-Sec. 1947; Minister, British Embassy, Washington 1948; Deputy NATO 1950-52; Perm. Rep. North Atlantic Council 1952-53, High Commr. in Germany 1953-55, Amb. to German Fed. Repub. 1955-57; Perm. Under-Sec. of State 1957-61; retired 1962. *Leisure interest:* shooting. *Address:* 57 Eaton Place, London, S.W.1, England; and Inchyra House, Glencarse, Perthshire, Scotland.

INDIANA, Robert, B.F.A.; American artist; b. 13 Sept. 1928, New Castle Ind.; ed. John Herron School of Art, Indianapolis, Munson-Williams-Proctor Inst., Utica, New York, Art Inst. of Chicago, Skowhegan School of Painting and Sculpture, Univ. of Edinburgh and Edinburgh Coll. of Art; lived and worked in New York 1954-; Artist-in-Residence, Center of Contemporary Art, Aspen, Colo. 1968; Hon. D.F.A. (Franklin and Marshall Coll., Lancaster, Pa.) 1970. One-man exhbns.: Stable Gallery, New York 1962, 1964, 1966, Walker Art Center, Minneapolis 1963, Inst. of Contemporary Art,

Boston 1963, Rolf Nelson Gallery, Los Angeles 1965, Dayton's Gallery 1912, Minneapolis 1966, Galerie Alfred Schmela, Düsseldorf 1966, Stedelijk van Abbemuseum, Eindhoven 1966, Museum Hans Lange, Krefeld (Fed. Repub. of Germany) 1966, Wüttembergischer Kunstverein, Stuttgart 1966, Inst. of Contemporary Art, Univ. of Pennsylvania 1968, Marion Koogler McNay Art Inst., San Antonio, Tex. 1968, Herron Museum of Art, Indianapolis 1968, Toledo Museum of Art, Ohio 1968, Hunter Gallery, Aspen, Colo. 1968, Creighton Univ., Omaha 1969, St. Mary's Coll., Notre Dame, Ind. 1969, Colby Coll. Art Museum, Waterville, Maine 1969-70, Currier Gallery of Art, Manchester, N.H. 1970, Hopkins Center, Dartmouth Coll. Hanover, N.H. 1970, Bowdoin Coll. Museum of Art, Brunswick, Maine 1970, Brandeis Univ., Waltham, Mass. 1970, Heron Art Museum, Indianapolis 1977, Univ. of Texas 1977. *Major group exhbns. include:* Painting and Sculpture of a Decade, Tate Gallery, London 1964, Twenty-ninth Biennial Exhbn. of American Painting, Corcoran Gallery of Art, Wash., D.C. 1965, Pop Art and the American Tradition, Milwaukee 1965, White House Festival of the Arts, Washington 1965, American Painting Now, Expo 67, Montreal 1967, Annual Exhbns. of American Painting, Documenta IV, Kassel 1968, Art in the Sixties, Cologne 1969. *Address:* 2 Spring Street, New York, N.Y. 10012; Vinalhaven, Maine, U.S.A. (Summer Residence).

INDRA, Alois; Czechoslovak politician; b. 17 March 1921, Medzev; fmr. Head of Planning, Finance and Foreign Trade Dept., Cen. Cttee. of Czechoslovak CP; Minister-Chair. State Planning Comm. 1962-63; Minister of Transport 1963-68; mem. Secr. of Cen. Cttee. and Sec. of Cen. Cttee. of CP 1968-71; mem. State Planning Comm. 1965-68; mem. Cen. Cttee. of CP 1962- (Econ. Comm. 1963-66); Deputy to Nat. Ass. 1964-69; Deputy to Czech Nat. Council 1968-71; Deputy to House of the People, Fed. Ass. 1969-; mem. Presidium of Fed. Ass. 1969-, Chair. 1971-; Alt. mem. Presidium of Cen. Cttee., CP of Czechoslovakia 1970-71, mem. 1971-; Presidium mem. of Cen. Cttee. of Nat. Front 1971-; Medal of Govt. of Czech Socialist Repub.; Order of the Repub. 1971, Order of Victorious February 1973. *Address:* Federal Assembly of the Czechoslovak Socialist Republic, Vinohradská I, Prague I, Czechoslovakia.

INGALLS, Daniel Henry Holmes, A.B., M.A.; American orientalist; b. 4 May 1916, New York, s. of late Fay Ingalls and Rachel Holmes Ingalls; m. Phyllis Sarah Day 1936; one s. two d.; ed. Harvard Univ. Jr. Fellow, Harvard Univ. 1939-42 and 1946-49; Office of Strategic Services 1942-44, U.S. Army 1944-46; Asst. Prof. Harvard Univ. 1949-54, Assoc. Prof. 1954-58, Wales Prof. of Sanskrit 1958-; Editor Harvard Oriental Series; Pres. American Oriental Soc. 1959-60; Dir. Virginia Hot Springs, Inc. 1946-57, Pres. 1957-63, Chair. of Bd. 1963-. *Publications:* Materials for the Study of Navya-nyaya Logic 1950, An Anthology of Sanskrit Court Poetry 1964. *Leisure interests:* reading, music, mountain climbing. *Address:* Widener Library 273, Harvard University, Cambridge, Mass. 02138, U.S.A.

INGERSOLL, Ralph McAllister, B.S.; American journalist and newspaper publisher; b. 8 Dec. 1900, New Haven, Conn.; s. of Colin Macrae Ingersoll and Theresa McAllister; m. 1st Elizabeth Carden 1925; m. 2nd Elaine Brown Keiffer 1945; m. 3rd Mary Hill Doolittle 1948; m. 4th Thelma Saxe Bradford 1964; two s.; ed. Hotchkiss School, Lakeville, Conn., Yale and Columbia Univs.; fmr. mining engineer; reporter New York American 1923-24; freelance journalist 1924-25; reporter New Yorker 1925, Man. Editor 1925-30; Assoc. Editor Fortune 1930, Man. Editor 1930-35; Vice-Pres. and Gen. Man. Time, Inc., publishing Time, Life, Fortune and Architectural Forum 1935-40, publisher Time 1937-40; Founder and Editor New York daily newspaper P.M. 1940-46; joined U.S. Army as private 1942, rose to Col. Gen. Staff Corps; served in Africa, England, France, Italy, Belgium and Germany on staff of Gen. Devers, Field-Marshal Montgomery and Gen. Bradley 1943-45; Pres. The R.J. Co. Inc. (newspaper investments) 1949-58, Capitol City Publishing Co., Inc.; Pres. Acme Newspaper Inc., Cen. States Publishing Inc., Mahanoy Publishing Inc., Mid-Atlantic Newspapers, Mid Hudson Publs., Milford Publishing, New England Newspapers, North Jersey Publishing, North East Publishing, Peerless Publs., Philadelphia Suburban Newspapers, Phoenix Publishing Co., Riverdale Publishing, Shenandoah Valley Publishing Corpn., Newspaper Man. Inc. (New York), Gen. Publs. Inc. (Conn.); Dir. Phoenix Publs. 1976-, Precision Publs., Oneida Publishing, Massillon Newspapers 1977-; Dir. Public Welfare Foundation (Wash., D.C.); awarded Legion of Merit, Assault Landing Arrowhead, Belgian Order of the Crown (Officer). *Publications:* In and Under Mexico 1923, Report on England 1940, America's Worth Fighting For 1941, Action on all Fronts 1942, The Battle is the Pay Off 1943, Top Secret 1946, The Great Ones 1948, Wine of Violence 1951, Point of Departure 1961. *Leisure interest:* travel. *Address:* The Phoenix, Cornwall Bridge, Connecticut 06754, U.S.A. *Telephone:* 203-672-6643.

INGERSOLL, Robert Stephen; American businessman; b. 28 Jan. 1914, Galesburg, Ill.; s. of Roy Claire and Lulu (née Hinchliff) Ingersoll; m. Coralyn Eleanor Reid 1938; four d.; ed. Phillips Acad. and Sheffield Scientific School, Yale Univ.; with Armco Steel Corpn. 1937-39; with Ingersoll Steel & Disc. Div. (later Ingersoll Products Div.), Borg-Warner Corpn., Chicago 1939-41, 1942-54, Pres. Ingersoll Products Div. 1950-54, Admin. Vice-Pres. Borg-Warner Corpn. 1953-56, Pres. 1956-61, Pres. and Chief Exec. Officer 1958-61, Chair and Chief Exec. Officer 1961-72; Amb. to Japan 1972-74; Asst. Sec. of State for East Asian Affairs Jan.-June 1974, Deputy Sec. of State 1974-77; fmr. Dir. First Nat. Bank of Chicago, Atlantic Richfield, Marcor Inc., Burlington Northern Inc.; Trustee, Univ. of Chicago, Aspen Inst. of Humanistic Studies, Calif. Inst. of Tech.; Dir. Amer. Nat. Red Cross; fmr. Dir., Vice-Pres. U.S. Chamber of Commerce. *Address:* One First National Plaza, Chicago, Ill. 60603, U.S.A.

INGHRAM, Mark Gordon, PH.D.; American professor and physicist; b. 13 Nov. 1919, Livingstone, Mont.; s. of Mark G. Inghram and Luella McNay Inghram; m. Evelyn M. Dyckman 1946; one s. one d.; ed. Olivet Coll. and Univ. of Chicago; Physicist, Univ. of Minn. 1942, Manhattan Project Columbia Univ. 1943-45; Sr. Physicist Argonne Nat. Lab. 1945-49; Instructor in Physics, Univ. of Chicago 1947-49, Asst. Prof. 1949-51, Assoc. Prof. 1951-57, Prof. of Physics 1957-69, Chair. Dept. of Physics 1959-70, Assoc. Dean Div. of Physical Sciences 1964-71, Samuel K. Allison Distinguished Service Prof. of Physics 1969-; mem. Nat. Acad. of Sciences; Lawrence Smith Medal of Nat. Acad. of Sciences 1957. *Publications:* Over 150 research papers in scientific journals. *Address:* Department of Physics, University of Chicago, Chicago, Ill. 60637, U.S.A. *Telephone:* (312) 753-8303.

INGLE, Dwight Joyce, PH.D.; American professor of physiology; b. 4 Sept. 1907, Kendrick, Idaho; s. of David J. Ingle and Mattie (Self) Ingle; m. Geneva McGarvey 1930; one s. two d.; ed. Univs. of Idaho, Minnesota and Pennsylvania; Research Scientist, The Upjohn Co., Kalamazoo, Mich. 1941-53; Prof. of Physiology, Ben May Lab. and Dept. of Physiology, Univ. of Chicago 1953-73, Prof. Emer. 1973-, Chair. Dept. of Physiology 1959-68; Founder Perspectives in Biology and Medicine, Editor 1957-73, Advisory Editor 1973-; studies on the adrenal cortex, experimental diabetes and liver regeneration; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Endocrine Soc. (Pres. 1959-60), Soc. for Experimental Biology and Medicine (Pres. 1965-67), American Diabetes Assen., American Physiological Soc.; Hon. D.Sc.; Roche Organin Award 1947, Upjohn Prize 1948, Koch Award of Endocrine Soc. 1963, Outstanding Achievement Award of Univ. of Minn. 1964, Modern Medicine Award 1968. *Publications:* Physiological and Therapeutic Effects of Corticotropin (ACTH) and Cortisone 1953, Principle of Research in Biology and Medicine 1958, I Went to See The Elephant 1962, Who Should Have Children? 1973, Is It Really So? 1976, and over 350 articles in scientific and learned journals. *Leisure interest:* sailing. *Address:* Box 335, Route 1, Rapid City, Mich. 49676, U.S.A. *Telephone:* 332-2045.

INGLÉS, José D., LL.B., LL.M., PH.B., D.C.L.; Philippine lawyer and diplomatist; b. 24 Aug. 1910, Mauban, Tayabas; m. Josefina M. Feliciano 1942; two s. two d.; ed. Univ. of the Philippines, Santo Tomás Univ., Manila, and Columbia Univ., New York; Attorney 1932-36; Private Sec. Assoc. Justice of Supreme Court; Legal Asst., Pres. of the Philippines 1936-39; Asst. Solicitor-Gen. 1940; Judge First Instance 1941-43; Asst. Exec. Sec. to Pres. of the Philippines 1944; Counsel, Senate of Philippines 1945-47; Prof. of Philippine Law School 1945-46; Vice-Chair. Trusteeship Cttee., Paris 1951; mem. Philippine Del. to UN 1946-56, 1962-69, Vice-Pres. Gen. Ass. 1974, mem. numerous UN Cttees.; Minister to Fed. Republic. of Germany 1956-58, Amb. 1958-62; Amb. to Thailand 1962-66; Rep. South East Asia Treaty Org. (SEATO) 1962-66; mem. Standing Cttee. Assen. of South East Asia (ASA) 1963-66; Under-Sec. of Foreign Affairs 1966-; Sec.-Gen. Nat. Secr. (ASEAN) 1967-69; mem. Civil Aeronautics Bd. 1969-70; Chair. Philippine Air Services Negotiating Panel 1969-; Chair. Philippine Del., SEATO Council of Ministers, Wellington 1968, UNESCO Gen. Conf., Paris 1970, ASEAN and ASPAC Standing Cttees., Manila 1970-71, Fifth ASEAN Ministerial Conf., Singapore 1972; Acting Perm. Rep. to the UN 1974; Acting Sec. of Foreign Affairs intermittently 1966-67; Grosskreuz des Verdienstordens der Bundesrepublik Deutschland, Most Noble Order of the Crown of Thailand, Most Exalted Order of the White Elephant, Gran Cruz del Orden de Mayo, Grand-Croix de l'Ordre de Léopold II, Nat. Order of Viet-Nam. *Publications:* numerous papers on economics and int. affairs. *Leisure interest:* orchid culture. *Address:* 21 Vinzons Street, Heroes' Hill, Quezon City, Philippines. *Telephone:* 99-3808.

INGRAM, Vernon M., F.R.S., PH.D., D.SC.; British professor of biochemistry; b. 19 May 1924, Breslau, Germany; s. of Kurt and Johanna Immerwahr; m. Margaret Young 1950; one s. one d.; ed. Birkbeck Coll., Univ. of London; Research Chemist, Thos. Morson and Son 1941-45; Lecture Demonstrator, Birkbeck Coll., London 1945-47, Asst. Lecturer 1947-50; Rockefeller Foundation Fellow, New York 1950-51; Coxe Fellow, Yale Univ. 1951-52; mem. staff, Molecular Biology Unit, Cavendish Lab., Cambridge 1952-58; Visiting Assoc. Prof. M.I.T. 1958-59; Assoc. Prof. M.I.T. 1959-61, Prof. of Biochem. 1961-; Guggenheim Fellow, Univ. of London 1967-68; mem. American Acad. of Arts and Sciences. *Publications:* Haemoglobin and its Abnormalities 1961, The Haemoglobins in Genetics and Evolution 1963, The Biosynthesis of Macromolecules 1965. *Leisure interest:* music. *Address:* Department of Biology, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Mass. 02139, U.S.A. *Telephone:* 617-253-3706.

INGRAND, Henry, M.D.; French doctor, civil servant and diplomatist; b. 18 Aug. 1908, Echire, Deux-Sèvres; ed. Univ. of Paris; Head of a Surgical Clinic, Paris until 1939; active in French Resistance Movement during 1939-45 war; Commr. for Auvergne Region 1944; High Commr. for Tourism 1946; Chair. Tourism Cttee. OEEC 1949-52; Pres. Union Internationale des Organismes officiels de Tourisme 1951-52; entered Ministry of Foreign Affairs 1952; Del. to UNRWA Beirut 1952-55; Amb. to Colombia, 1955-59; Sec.-Gen. for Algerian Affairs Jan.-Dec. 1959; Amb. to Venezuela 1961-63; Ministry of Foreign Affairs 1963; Pres. Admin. Council of Houillères, Provence 1964-69; Adviser on Int. Affairs, Groupe des Charbonnages de France 1967-73; Adviser on Int. Affairs, Soc. Chimique des Charbonnages 1973; Commdr., Légion d'honneur, Compagnon de la Libération, Croix de guerre, Hon. C.B.E. (U.K.) *Address:* Les Fenouillères, 13122 Ventabren, France.

INGRAO, Pietro; Italian journalist and politician; b. 30 March 1915, Lenola, Latina; m. Laura Lombardo Radice 1944; one s. four d.; ed. Univ. of Rome; began career as a journalist; active in anti-fascist student groups at Univ. of Rome 1939; joined Italian Communist Party (PCI) 1940; joined editorial staff of l'Unità (PCI newspaper) 1943; took part in resistance movement in Rome and Milan 1943-45; Editor l'Unità 1947-57; mem. Nat. Exec. and Secretariat of PCI 1956-; mem. Chamber of Deputies (lower house of Parl.) for Rome, Latino, Frosinone, Viterbo 1948-58, for Perugia, Terni, Rieti 1958-63, 1968-, for Ancona and Perugia 1963-68; Pres. of PCI Parl. Group 1972-76; Pres. of Chamber of Deputies 1976-. *Publications:* essays on political and social subjects in periodicals, incl. Rinascita, Critica Marxista 1945-, Masse e Potere 1977. *Address:* Partito Communista Italiana, via delle Botteghe Oscure 4, 00186 Rome, Italy.

INGSTAD, Helge Marcus; Norwegian author and explorer; b. 30 Dec. 1899, Meraker; s. of Olav and Olga Marie (née Quam) Ingstad; m. Anne Stine Moe 1941; one d.; Barrister, Levanger, Norway 1922-25; lived as trapper N.E. of Great Slave Lake, Arctic Canada 1926-30; Norwegian Gov., N.E. Greenland 1932-33; Norwegian Gov. of Svalbard (Spitsbergen) 1933-35; studied Apache Indians, Arizona, and made expedition to Sierra Madre Mountains, Mexico, in search of some primitive Apache Indians 1936-38; studied Eskimo group Nunamiut, Brooks Range, N. Alaska 1949-50; made expedition with wife to W. Greenland to study old Norse settlements 1953; made eight archaeological expeditions to N. America, where at N. tip of Newfoundland (L'Anse aux Meadows) a Norse pre-Columbian site was discovered and excavated 1960-68; made expedition to Eastern Coast of Baffin Island and located Helluland, mentioned in Vinland Saga 1970; Hon D.Sc. (St. Olaf Coll., Minn.) 1965, (Memorial Univ. St. John's Newfoundland) 1969, (McGill Univ., Montreal) 1975, (Oslo) 1976; numerous awards including Franklin L. Burr Award (Nat. Geographic Soc., Washington) 1964, Fridtjof Nansen Award, Univ. of Oslo 1965, The Wahlberg Award 1968; Commdr., Order of St. Olav (Norway) 1970. *Publications:* Pelsjegerliv blant Nord-Kanadas Indianere (Land of Feast and Famine) 1931, Øst for Den Store Bre (East of the Great Glacier) 1935, Apache—Indianerne. Jakten pa den tapte stamme 1939, Klondyke Bill 1945, Siste Båt (play) 1946, Landet med De Kalde Kyster 1948, Nunamiut. Blant Alaskas Innlands-eskimoer (Nunamiut-Among Alaska's Inland Eskimos) 1951, Landet under Leidarstjernen (Land under the Pole Star) 1959, Vesterveg til Vinland (Westwards to Vinland) 1965, The Discovery of a Norse Settlement in America (Vol. 1). *Leisure interest:* chess. *Address:* Vettalivei 24, Oslo 3, Norway. *Telephone:* 14-21-35.

INGVALDSEN, Bernt; Norwegian electrical engineer and politician; b. 12 Oct. 1902, Trondheim; s. of Ingvald Ingvaldsen and Edvarda Carstens (née Holtermann); m. Aase Matheson Brun 1928; three s.; ed. Norges Tekniske Høgskole, Trondheim; Man. factories of Nat. Industry Ltd., Drammen 1932-49, Man. Dir. of Nat. Industry Ltd. 1949-68; Vice-Chair. Conservative Party 1954-62; Del. to UN Gen. Ass. 1959; mem. Storting (Parl.) 1945-, Chair. Mil. Cttee. 1961-65, Pres. of Storting 1965-72, Vice-Pres. 1972-; Deputy Chair. Nobel Peace Prize Cttee. 1967-69. *Address:* Nobel Foundation, Sturesgatan 14, S-11436 Stockholm, Sweden.

INGVARSSON, Ingvi S.; Icelandic diplomatist; b. 12 Dec. 1924; m.; one d.; ed. Akureyri Coll., Glasgow Univ. and London School of Econs.; entered diplomatic service 1956; First Sec., Moscow 1958-62, Washington, D.C. 1962-66; Deputy Perm. Rep. to NATO 1966-71, concurrently Counsellor, Paris and Brussels; Deputy Sec.-Gen. Ministry of Foreign Affairs 1971-72; Perm. Rep. to UN 1973-77; Amb. to Sweden, concurrently to Finland and Yugoslavia 1977-, to Albania 1978-. *Address:* Embassy of Iceland, Kommendörsgatan 35, 114 58 Stockholm, Sweden.

INNES, Hammond (*see* Hammond Innes, Ralph).

INNIS, Roy Emile Alfredo; American chemist and human rights organization executive; b. 6 June 1934, St. Croix, Virgin Islands; s. of Alexander and Georgianna Innis; m. Doris Funnye 1965; six c.; ed. City Coll., New York; joined U.S. Army 1950, Sergeant 1951, discharged 1952; pharmaceutical research work, Vick Chemical Co., then medical research Montefiore Hosp. until 1967; active in Harlem chapter of Congress of Racial Equality (CORE) 1963, Chair. Harlem Educ. Cttee. 1964, Chair. Harlem CORE 1965-67, Second Nat. Vice-Chair. 1967-68, Assoc. Nat. Dir. CORE Jan-Sept. 1968, Nat. Dir. Sept. 1968-; Founder Harlem Commonwealth Council, First Exec. Dir. 1967-68, now mem. of Bd.; Res. Fellow, Metropolitan Applied Research Center 1967-; Co-Publisher The Manhattan Tribune (weekly); mem. Bd. and Steering Cttee. Nat. Urban Coalition; mem. of Bd. New York Coalition, Haryou Inc., Bd. of Dirs. New Era Health Educ. and Welfare, Bd. of Advisers Pan-African Journal; mem. Editorial Staff Social Policy Magazine; Co-Chair. Econ. Devt. Task Force, New York Urban Coalition; founder CORE Community School, South Bronx 1977. *Publications:* The Little Black Book 1971; chapters in: The Endless Crisis, Black Economic Development 1970, Integrating America's Heritage: A Congressional Hearing to Establish A National Commission on Negro History and Culture 1970; articles and editorials in Manhattan Tribune, CORE Magazine, Business Weekly, etc. *Leisure interests:* reading, sports, music. *Address:* 800 Riverside Drive, Apartment 6E, New York, N.Y. 10032, U.S.A.

INNOCENTI, Luigi; Italian industrialist; b. 19 Dec. 1923; ed. Massimo Coll., Rome and School of Engineering, Rome; Manager, Innocenti 1948-51, Gen. Vice-Dir. 1951-58, Vice-Chair. 1958-66, Chair 1966-. *Address:* Via Senato 19, Milan, Italy.

INOUE, Shiro; Japanese banker; b. 8 Feb. 1915, Tokyo; s. of late Junnosuke and Chiyoko Inoue; m. Utako Inoue 1939; no c.; ed. Tokyo Imperial Univ.; joined Bank of Japan 1938, Chief Rep., New York Office 1960, Adviser to Gov. for Int. Finance 1964, Exec. Dir. 1967-; Head of Nagoya Branch 1967, Rep. for Affairs 1968-72; Pres. Asian Devt. Bank 1972-76; Sr. Adviser, Yamaichi Securities Co. 1977-. *Leisure interests:* bridge, golf. *Address:* Yamaichi Securities Co., 1-1 Yaesu 5-chome, Chuo-ku, Tokyo, Japan.

INOUE, Yoshimi, LL.B.; Japanese business executive; b. 26 March 1908, Hiroshima Pref.; s. of Yonetaro and Risu Inoue; m. Motoko Nakano 1933; one s. two d.; ed. Tokyo Univ.; Man. Printing Bureau, Ministry of Finance 1954-56; Dir. Kobe Steel Ltd. 1958-65, Dir. and Exec. Officer 1965-69, Dir. and Sr. Exec. Officer 1969-71. Dir. and Vice-Pres. 1971-72, Dir. and Pres. 1972-74, Chair. Bd. of Dirs. 1974-77, Adviser and Dir. 1977-. *Leisure interests:* golf, kouta, igo. *Address:* 4-20-14, Miyamae, Suginami-ku, Tokyo, Japan. *Telephone:* Tokyo 333-6751.

INOUE, Yuichi; Japanese artist; b. 1916, Tokyo; two c.; Co-founder "Bokujin-kai" group of calligraphers 1952; rep. travelling exhbn. of Japanese Calligraphy, Europe 1955, São Paulo Bienal 1957, Brussels Int. Exhbn. 1958, Kassel Int. Exhbn. 1959, Pittsburgh Int. Exhbn. 1961, São Paulo Bienal 1961, one-man show at Ichibankan Gallery, Tokyo 1971. *Address:* Ohkamiyashiki, 2475-2 Kurami, Samukawa-machi 253-01, Kozagun, Kanagawa, Japan. *Telephone:* 0467-74-4721.

INOUYE, Daniel Ken; American lawyer and politician; b. 7 Sept. 1924, Honolulu, Hawaii; s. of Hyotaro and Kame Imanaga Inouye; m. Margaret Shinobu Awamura 1949; one s.; ed. Univ. of Hawaii and George Washington Univ. Law School.; U.S. Army 1943-47; Majority Leader, Territorial House of Reps. 1954-58, mem. Territorial Senate 1958-59; mem. U.S. Congress 1959-62; U.S. Senator from Hawaii 1963-; Democrat; mem. Senate Cttee. on Appropriations, Commerce Cttee., Asst. Majority Whip 1964-; mem. Dem. Senatorial Campaign Cttee.; Chair. Senate Appropriations Subcttee. on Foreign Operations; Chair. Senate Commerce Subcttee.

on Merchant Marine and Tourism 1976-77; Chair. Senate Select Cttee. on Intelligence 1976-77; Temp. Chair. and Keynoter 1968 Dem. Nat. Convention; Sec. Dem. Conf. 1977. *Address:* 442 Old Senate Office Building, Washington, D.C. 20510; Prince Kuhio Federal Building, Room 6104, Honolulu, Hawaii 96850, U.S.A. *Telephone:* 202-224-3934; (808) 546-7550 (Hawaii).

INOUYE, Kaoru; Japanese banker; b. 13 May 1906, Chiba Pref.; s. of Jiro and Masa Inouye; m. Mitsuko Shibuya 1932; three c.; ed. Tokyo Univ.; joined the Dai-Ichi Bank, Ltd. 1929, Dir. 1954, Deputy Pres. 1961, Pres. 1962-71; Chair. The Dai-Ichi Kangyo Bank 1971-76, Chair. Sr. Exec. Cttee. 1976-; Dir. Asahi Mutual Life Insurance Co., Taisei Fire and Marine Insurance Co., K. Hattori and Co.; Auditor, Furukawa Electric Co. Ltd.; Chair. of Financial Group and Councillor, Tokyo Chamber of Commerce and Industry. *Address:* The Dai-Ichi Kangyo Bank, 6-2, 1-chome, Marunouchi, Chiyoda-ku, Tokyo 100, Japan.

INOZEMTSEV, Nikolay Nikolayevich, DR.SC.; Soviet economist; b. 4 April 1921, Moscow; ed. Inst. of Int. Relations; Head of Dept. Deputy Dir., Dir., Inst. of World Econs. and Inst. Relations, U.S.S.R. Acad. of Sciences 1966-; mem. CPSU 1943, Cand. mem. CPSU Cen. Cttee. 1971-; Deputy Editor of Pravda 1961-66; Corresp. mem. U.S.S.R. Acad. of Sciences 1964-68, Academician 1968-; Order of Lenin and other decorations. *Publications:* Works in field of world economics and international relations. *Address:* Institute of World Economics and International Relations, U.S.S.R. Academy of Sciences. 13 Yaroslavskaya ulitsa, Moscow, U.S.S.R.

IOANNIDES, George X.; Cyprus politician; b. 1924, Ktima Paphos; m.; ed. Greek Gymansium, Paphos, Middle Temple, London; called to bar, London 1947; law practice, Paphos 1948-70; mem. House of Reps. (Patriotic Front Group) for Paphos 1960-70; Minister of Justice 1970-72, of the Interior and Defence 1972-74, of Justice and Health 1976-78, Minister to the Presidency March 1978-; mem. of Cyprus del. to many int. meetings. *Address:* c/o Office of the President, Nicosia, Cypris.

IOANNISIANI, Bagrat Konstantinovich; Soviet designer; b. 1921; Chief Designer of the Vavilov State Inst. of Optics; awarded Lenin Prize for designing new atronomical instruments 1957. *Principal works:* ASI-4 astro-photo-camera, meniscus telescope with 70 cm. aperture and 98 cm. mirror (Abastumani Observatory, Georgia), 50-metre nebular spectrograph (Crimean Observatory); BTA-6 (with 600 metre mirror). *Address:* State Institute of Optics, Leningrad, U.S.S.R.

IOFAN, Boris Mikhailovich; Soviet architect; b. 28 April 1891, Odessa; ed. Odessa School of Art, Architectural Dept. of the Rome Higher Inst. of Fine Arts. State Prize winner 1939, 1941; awarded Order of Red Star, Order of the Red Banner of Labour (twice); mem. CPSU 1926-; People's Architect of U.S.S.R. 1970-. *Designs include:* first draft of the Palace of Soviets in Moscow; the U.S.S.R. Pavilions at the World Fairs in Paris 1937, New York 1939; the Baumann underground station in Moscow; design of reconstruction of city of Novorossiysk; regional plan and supervision of redevt. of Pervomaysky Borough, Moscow, also Sverdlovsky Borough, Moscow; design and construction of Inst. of Physical Culture, Moscow; Oil Scientific Research Inst., Lenin Ave., Moscow; sixteen-storey blocks of flats, Moscow; experimental block of flats with extensive use of plastics. *Address:* U.S.S.R. Union of Architects, 3 Ulitsa Shchuseva, Moscow, U.S.S.R.

IONESCO, Eugène; Romanian-born French playwright; b. 13 Nov. 1912, Slatina; s. of Eugène Ionesco and Thérèse Icard; m. Rodica Burileano 1936; one d.; ed. Bucharest and Paris; lecturer and critic in Bucharest before finally settling in Paris 1938; Chevalier, Légion d'honneur; mem. Acad. Française 1970; Austrian Prize for European Literature 1971; Jerusalem Prize 1973; Int. Writers' Fellowship, Welsh Arts Council 1973. *Publications:* Plays: The Bald Prima Donna (first produced Paris 1950, London 1957), Jacques, The Lesson (Paris 1951, London 1955, New York 1958), The Chairs (Paris 1952, London 1957, New York 1958), Amédée (Paris 1954, London 1957), Victims of Duty (Cambridge 1957), The New Tenant (London 1956, Paris 1957), Rhinocéros (Düsseldorf 1959, Paris 1960, London 1960), The Killer, L'Impromptu de l'Alma, The Picture, Le piéton de l'air (Paris 1962), Chemises de nuit 1962, Le roi se meurt 1963, La soif et la faim 1964, Peste 1967, Jue de massacre 1970, Ce formidable bordel 1973, L'homme aux valises 1975; radio play: Le salon de l'automobile; short stories; Oriflamme (adapted as the play Amédée), La Photo du Colonel 1962 (adapted as the play The Killer); ballet: Jeune homme à marier (with Flemming Flindt) 1965; essays: Notes et contre notes, Entretiens avec Claude Bonnefoy, Journal en miettes (autobiog. journal) 1967, Présent passé, passé présent (autobiog.), Le solitaire (novel) 1973; film: La vase 1973. *Address:* c/o Editions Gallinard, 5 rue Sebastien-Bottin, 75007 Paris, France.

IONIȚĂ, Gen. Ion; Romanian army officer and politician; b. 14 June 1924, Mătăsaru, Dîmbovița District; m. Cecilia Ioniță; ed. Higher Staff Acad.; mem. of Romanian CP 1945-, Alt. mem. of Cen. Cttee. 1955-65, mem, 1965-; Deputy Minister of Nat. Defence 1962-66, Minister 1966-76; Deputy Chair. Council of Ministers June 1976-; Chair. Higher Sanitary Council; mem. Cen. Cttee. of CP 1965-, Alt. mem. Exec. Cttee. 1969-74, Alt. mem. Exec. Political Cttee. 1974-76, mem 1976-; Deputy to Grand Nat. Ass. 1961-; Hero of Socialist Labour 1971. *Address:* Central Committee of the Romanian Communist Party, Bucharest, Romania.

IORDAN, Iorgu, D. ÈS L.; Romanian romance philologist; b. 29 Sept. 1888, Tecucu; s. of Toader and Elena Iordan; m. Maria N. Popescu 1914 (died 1961); ed. Liceul Internat, Jasi, and Jasi, Bonn, Berlin and Paris Univs.; secondary school teacher 1911; Prof. Jasi Univ. 1926-46, Dean, Faculty of Literature 1938-39; Prof. Bucharest Univ. 1946-, Dean, Faculty of Philology 1947-50, 1956-57, Rector 1957-58; Dir. Jasi Nat. Theatre 1928-30; Pres. Romanian Antifascist Assen. 1934; Amb. to U.S.S.R. 1945-47; Pres. UNESCO Nat. Comm. 1956-57, Vice-Pres. 1958-66; Corresp. mem. Romanian Acad. 1934-48, Titular mem. 1948-, Vice-Pres. and Pres. Philological Sciences Section 1958-66; Dir. Linguistic Inst., Acad. of Romanian Socialist Repub. 1949-52, 1958-70; Corresp. mem. Saxon Acad. of Sciences, Leipzig, German Acad. of Sciences, Berlin, Austrian Acad. of Sciences, Vienna, Bavarian Acad. of Sciences, Munich, Instituto Mexicano de Cultura, Inst. d'Estudis Catalans, Real Academia Española; founding mem. Soc. de Linguistique Romane, Paris; mem. Soc. de Linguistique, Paris, Int. Cttee. for Onomastic Sciences (CISO); Vice-Pres. Junta Directiva Asoc. Int. de Hispanistas 1971-74; mem. Conf. on Human Survival, New York 1972, of Emergency World Council, The Hague 1973 and Planetary Citizen 1975; Hon. Pres. Soc. Linguistique Romane 1968, Comité Int. des Linguistes (CIPL); European Cultural Soc., Venice; State Prize, Order of Labour, Hero of Socialist Labour, and several other decorations; Dr. h.c. (Humboldt Univ., Berlin, Montpellier, Jasi, Ghent, Budapest, Rome); mem. Romanian Communist Party 1934-. *Publications:* Diftongarea lui "e" și "o" accentuați în pozițiile "a", "e" 1921, Rumänische Toponomastik 1924-26, Introducere în studiul limbilor romanice 1932 (English trans. 1937 and 1970), Gramatica limbii române 1937, Limba română actuală. O gramatică a "greșelilor" 1943, Stilistica limbii române 1944, Nume de locuri românești în Republica Populară Română (Vol. 1) 1952, Limba română contemporană 1954, Cronica lui Meculce (edition of an XVIII-century chronicle, with introductory study and glossary) 1955, Lingvistica romanică, Evoluție. Curente. Metode 1962, Toponimia românească 1963, Istoria limbii spaniole 1963, Introducere în linguistică romanică (in collaboration), 1965, Structura morfologică a limbii române (in collaboration) 1967, Scrieri alese 1968, Alexandru I. Philippide 1969, Memorii Vol. I 1976, Vol. II 1977, Limba literară 1977. *Leisure interests:* walking, music, shows. *Address:* Str. Sofia 21, Bucharest, Romania. *Telephone:* 33-18-86.

IORDANOGLOU, Ippocrates; Greek lawyer and politician; b. 1909; m.; two s.; ed. Univ. of Athens; admitted to Thessaloniki Bar 1932; Chair. Thessaloniki School Bldg. Fund; M.P. for Thessaloniki 1963; Minister of Commerce April 1967; Minister of Agriculture 1974-77. *Address:* c/o Ministry of Agriculture, Athens, Greece.

IRAN, fmr. Empress of (*see* Pahlavi, Farah Diba).

IRAN, fmr. Shah of (*see* Pahlavi, Mohammad Reza).

IREDALE, Randle W., F.R.A.I.C., B.ARCH.; Canadian architect; b. 1 June 1929, Calgary, Alberta; s. of William E. Iredale and Isobel M. Fielden; m. Kathryn Margaret Bahr 1953; two s. one d.; ed. Univ. of British Columbia, Univ. of Washington, D.C.; Registered Architect, British Columbia 1957; established practice 1958; formed Rhone & Iredale, Architects 1960; Chair. of Bd. and Dir. of Research, Fabtec Structures 1969-72; established Canadian Environmental Services 1968; Dir. Cancon-Canadian Eng. Services 1969-74; Guest lecturer on architectural practice and design methods (for American Inst. of Architects), Seattle 1969, Sun Valley 1971, Chicago 1972; Guest Lecturer, Pa. State Univ. 1971, Univ. of Wis. 1972; Hon. Lecturer, Univ. of British Columbia School of Architecture 1968-; mem. Council, Architecture Inst. of British Columbia 1973-; mem. Vancouver City Design Panel 1963-65; Dir. Canadian Construction Information Corpn. 1972-74; Canadian Housing Design Council Awards 1966, 1975; American Public Power Assen. Awards 1971, 1973; American Iron & Steel Inst. Citation 1971; Canadian Architect Award of Excellence 1970; Royal Architectural Inst. of Canada Award 1974. *Publications:* articles in specialized journals. *Leisure interests:* skiing, gardening, carpentry. *Address:* Rhone & Iredale,

Architects, 1100 West 7th Avenue, Vancouver, B.C. V6H 1B4 (Office); 1537 Westbrook Crescent, Vancouver, B.C., Canada (Home). *Telephone:* (604) 736-5581 (Office); (604) 224-7003 (Home).

IRIBARRÉN BORGES, Ignacio; Venezuelan lawyer and diplomatist; b. 1912, Valencia, Venezuela; s. of late Ignacio Iribarrén and Mary Borges; m. Carolina Terrero 1938; two s. one d.; ed. Don Bosco Coll., Valencia and Univ. Central de Venezula; District Attorney, Valencia 1936; Judge, Primary Court of Claims, Valencia 1936-39; Prof. of Roman Law, Miguel José Sanz School of Law, Valencia 1938-39; Asst. Prof. of Civil Law, Univ. Central de Venezuela 1940-44; Counsellor Cen. Univ. City Inst. 1945-47; mem. Univ. Council 1946-47; later Pres. Compañía Conahotu Ltda; Sec. Governing Junta (under Presidency of Dr. Edgard Sanabria) 1958-59; Amb. to U.K. 1959-64; Minister of Foreign Affairs 1964-69; Grand Cordon, Order of the Liberator and numerous other decorations. *Leisure interests:* literature, history. *Address:* Cerro Quintero, Urbanización Las Mercedes 3, Quinta Pandora, Caracas, Venezuela. *Telephone:* 33-99-90.

IRMAK, Sadi; Turkish professor and politician; b. 15 May 1904, Seydişehir, Konya; s. of Sarbri and Saliha Irmak; m. Semiha Irmak 1934; one s. one d.; ed. Konya, Univs. of Istanbul and Berlin; Teacher, Gazi Educ. Inst.; Chief Medical Officer, Ankara; Lecturer in Physiology, Istanbul Univ. 1932, Prof. 1940; mem. Nat. Ass. for Konya 1943-50; Minister of Labour 1945-47; Faculty of Medicine, Munich Univ. 1950-52; Senator 1974-; Prime Minister Nov. 1974-March 1975; Pres. Istanbul Univ. Inst. of Research on Atatürk's Reforms; Republican People's Party. *Address:* Yesilyurt-Basak 50, Istanbul, Turkey. *Telephone:* 738651.

IRMLER, Heinrich, D.IUR.; German banker; b. 27 Aug. 1911; ed. Realgymnasium, Leipzig, Allgemeine Deutsche Kreditanstalt, Leipzig, and Univ. of Leipzig; Deutsche Reichsbank 1937-48; Army Service 1939-45; Bank Deutscher Lander, Frankfurt 1948-53; mem. Bd. of Mans. and Vice-Pres. Landeszentralbank von Niedersachsen (Lower Saxony), Hanover 1953-57; Vice-Pres. Landeszentralbank in Nordrhein-Westfalen (North Rhine-Westphalia), Düsseldorf 1958-62; Pres. Landeszentralbank in Niedersachsen, Hanover 1962-64; mem. Bd. Deutsche Bundesbank, Frankfurt 1964-. *Address:* 6000 Frankfurt am Main, Wilhelm-Epstein-Strasse 14, Federal Republic of Germany. *Telephone:* 1581.

IROBE, Yoshiaki; Japanese banker; b. 18 July 1911, Tokyo; s. of Tsuneo and Tsuneko (Hirohata) Irobe; m. Kiyoko Kodama 1939; three s. one d.; ed. Tokyo Imperial Univ.; Man., Matsuyama Branch, The Bank of Japan 1954, Deputy Chief, Personnel Dept. 1956, Chief Sec. and Chief, Foreign Relations Dept. 1959, Chief, Personnel Dept. 1962, Man. Nagoya Branch 1963; Sr. Man. Dir., The Kyowa Bank Ltd. 1966, Deputy Pres. 1968, Pres. 1971-. *Leisure interests:* 'Go', travel, reading. *Address:* The Kyowa Bank Ltd., 5-1 Marunouchi 1-chome, Chiyoda-ku, Tokyo (Office); 26-6, Saginomiya 6-chome, Nakano-ku, Tokyo, Japan (Home). *Telephone:* 999-0321 (Home).

IRVING, K.C.; Canadian oil executive; b. 14 March 1899; ed. Dalhousie Univ. and Acadia Univ.; Pres. Irving Oil Co. Ltd. 1929-; Pres. Irving Pulp & Paper Ltd., K.C. Irving Ltd., Chair. Irving Refining Ltd. *Address:* Widdrington, Pitt's Bay Road, Pembroke, Ont., Canada.

IRWIN, John Nichol, II; American government official; b. 31 Dec. 1913, Keokuk, Iowa; m. Jane Watson; one s. one d.; ed. Princeton, Oxford and Fordham Univs.; served U.S. Army, Second World War; with law firm Patterson, Belknap and Webb, New York 1950-70, 1974-; Deputy Asst. Sec. and Asst. Sec. of Defense for Int. Security Affairs 1957-61; Special Envoy of Pres. of U.S. to Peru in dispute over Peru's seizure of U.S.-owned oil properties; U.S. Rep. in negotiations for new draft Panama Canal Treaty 1965-67; mem. Bar Assen. of New York, American Fed. of New York, State Bar Assens., Council on Foreign Relations, Morningside Community Center Inc.; fmr. Chair. Bd. of Dirs. Union Theological Seminary; Trustee numerous orgs.; Under-Sec. of State 1970-73; Amb. to France 1973-74. *Address:* 888 Park Avenue, New York, N.Y. 10021, U.S.A. (Home).

IRWIN, Malcolm Robert, PH.D.; American educator and biologist; b. Artesian, S. Dak.; s. of Joseph Speer Irwin and Mary T. (McCollum) Irwin; m. Margaret C. House 1929; one s. one d.; ed. Iowa State Coll.; Teacher American Farm School, Thessaloniki, Greece 1921-24; Nat. Research Council Fellow, Harvard Univ. 1928-29, Rockefeller Inst. for Medical Research 1929-30; Asst. Prof. of Genetics, Univ. of Wis. 1930-36, Assoc. Prof. 1936-39, Prof. of Genetics 1939-67, Emer. Prof. of Genetics 1967-; mem. Nat. Acad. of Sciences; Foreign mem. Swedish Royal Acad. of Agric.; Daniel Giraud Elliot Medal of Nat. Acad. of Sciences 1938, Alumni Award of Iowa State Univ. 1960, Morrison Award of American Soc. for Animal Sciences 1962, Von Nathusius Medaille of Deutsche Gesellschaft für Züchtung 1965, Hon. Recognition by Wis. Agricultural Co-operatives 1968. *Publications:* About 100 biological articles and book chapters. *Leisure interests:* sport, especially golf and bowling, reading in science and biographical material of foreign statesmen. *Address:* 4720 Regent Street, Madison, Wis. 53705, U.S.A. *Telephone:* 233-2809.

IRWIN, William Arthur, O.C., B.A.; Canadian journalist and diplomatist; b. 1898, Ayr, Ontario. s. of Alexander J. and Amelia J. (Hassard) Irwin; m. 1st Jean Olive Smith 1921 (died 1948); m. 2nd P.K. Page 1950; one s. two d.; ed. Univs. of Manitoba and Toronto; fmr. rodman, Canadian Northern Railway Construction; served in France during First World War; later Reporter, Toronto Mail and Empire, and subsequently Reporter, Corresp. (Parl. Press Gallery, Ottawa) and Editorial Writer Toronto Globe; Assoc. Editor Maclean's Magazine 1925-42, Man. Editor 1943-45, Editor 1945-50; Chair. Nat. Film Bd. 1950-53; High Commr. in Australia 1953-56; Amb. to Brazil 1957-59, to Mexico 1960-64; Publisher Victoria Daily Times; Vice-Pres. Victoria Press Ltd. 1964-71; Officer of Canada 1973; LL.D. (Victoria Univ.) 1977. *Publications:* The Wheat Pool 1929, Motor Vehicle Transportation Briefs (Royal Comm. on Railways and Transportation 1932, Royal Comm. on Transportation in Ontario 1937), The Machine 1938. *Address:* 3260 Exeter Road, Victoria, British Columbia, Canada.

IRYANI, Sheikh Qadi Abdul Rahman; Yemeni religious and political leader; b. 18 July 1917; took part in abortive revolution 1948; imprisoned 1948-54; took part in uprising 1955; mem. Revolutionary Council 1962-74; Minister of Justice 1962-63; Vice-Pres. Exec. Council 1963-64; mem. Political Bureau 1964-74; Chair. Peace Cttee. set up after Khamer Peace Talks May 1965; Head of State of Yemen 1967-69; Chair. Presidential Council 1969-74 (deposed by mil. coup); leader of Zaidi Community of Shi'a Muslims. *Address:* c/o Military Command Council, Sana'a, Yemen Arab Republic.

ISA BIN SULMAN AL-KHALIFA, H.H. Shaikh (see Khalifa, H.H. Shaikh Isa bin Sulman al-).

ISARANGKUN NA AYUTHAYA, Charunphan; Thai politician; b. 14 March 1914; ed. Chulalongkorn and Thammasat Univs., Bangkok, Nat. Defence Coll.; served in Ministry of Interior 1934-43; joined Ministry of Foreign Affairs 1943; posted to Berne 1947-51, London 1956-60; Deputy Under-Sec. of State for Foreign Affairs 1960; Amb. to Laos 1961-65, to Spain, concurrently to Tunisia 1965-70, to Austria, concurrently to Turkey 1970-71; Under-Sec. of State for Foreign Affairs 1971-73; Minister of Foreign Affairs 1973-75. *Address:* c/o Ministry of Foreign Affairs, Bangkok, Thailand.

ISARD, Walter, A.B., M.A., PH.D.; American regional scientist; b. 19 April 1919; ed. Temple, Harvard and Chicago Univs.; Instructor Wesleyan Univ. 1945, M.I.T. 1947; Visiting Lecturer Tufts Coll. 1947; Assoc. Prof. of Econs., Assoc. Dir. of Teaching, Inst. of Econs., American Univ. 1948-49; Research Fellow and Lecturer, Harvard Univ. 1949-53; Assoc. Prof. of Regional Econs., Dir. Urban and Regional Studies, M.I.T. 1953-56; Prof. of Econs., Chair. Dept. of Regional Science, Univ. of Pa. 1956-75, Head Dept. of Peace Science 1975-; Visiting Prof. of Regional Science, Yale Univ. 1960-61, of Landscape Architecture and Regional Science, Harvard Univ. 1966-71; Chair. Graduate Group in Peace Research and Peace Science Unit 1970-; Sr. Research Assoc., Visiting Prof. of Econs., Regional Science and Policy Planning, Cornell Univ. 1971-; Distinguished Visiting Prof., Inst. für Regionalwissenschaft, Karlsruhe 1972; Consultant, Tenn. Valley Authority 1951-52, Resources for the Future Inc. 1954-58, Ford Foundation 1955-56; Founder Regional Science Assen. 1954, Editor, Co-Editor Papers 1954-58, Pres. 1959, Hon. Chair. 1960-; Ford Foundation Fellow in Econs. and Business Admin. 1959-60; Editor, Co-Editor, Journal of Regional Science 1960-; Chair. OEEC Econ. Productivity Agency Conf. on Regional Econs. and Planning, Bellagio, Italy 1960; Founder Peace Science Soc. (Int.) 1963, Co-Editor Papers 1963-, Exec. Sec. 1964-, Pres. 1968; Pres. World Acad. of Art and Science 1977-; Assoc. Editor Quarterly Journal of Economics 1968-71; mem. Editorial Bd Journal of Conflict Resolution 1972-. *Publications:* Atomic Power: An Economic and Social Analysis 1952, Location Factors in the Petrochemical Industry 1955, Location and Space Economy 1956, Municipal Costs and Revenues resulting from Community Growth 1957, Industrial Complex Analysis and Regional Development 1959, Methods of Regional Analysis 1960, Regional Economic Development 1961, General Theory: Social, Political, Economic and Regional 1969, Regional Input-Output Study 1971, Ecologic-Economic Analysis for regional Planning 1971. *Address:* Department

of Peace Science, University of Pennsylvania, McNeil Building, Philadelphia, Pa. 19174 (Office); 3218 Garrett Road, Drexel Hill, Pa., U.S.A. (Home).

ISAYEV, Vasiliy Yakovlevich; Soviet engineer and politician; b. 1917; ed. Leningrad Eng. Construction Inst.; admin. work in construction orgs. 1937-55; mem. CPSU 1939-; Chief Bd. of Housing, Civil and Industrial Construction in Leningrad 1955-61; Deputy Chair., then Chair. Exec. Cttee. Leningrad City Council of Working People's Deputies (Mayor of Leningrad) 1962-64; Deputy of Supreme Soviet U.S.S.R. 1962-; mem. Comm. for Youth Affairs, Soviet Union; Deputy Chair. of Gosplan U.S.S.R. 1965-; Cand. mem. Cen. Cttee. CPSU 1966-. *Address:* U.S.S.R. Gosplan, 12 Prospekt Marxa, Moscow, U.S.S.R.

ISAZA CALDERÓN, Baltasar, D.PHIL., D.LITT.; Panamanian professor; b. 1904, Natá, Prov. Coclé; ed. Nat. Inst., Panama, Pedagogical Inst., Santiago de Chile, Univ. Central de Madrid; Sec., Gen. Inspectorate of Primary Educ. 1926-27; Prof., Nat. Inst. of Panama 1934-39, Univ. de Panamá 1937-62; Dean, Faculty of Phil., Letters and Educ. Univ. de Panamá 1943-48; Dir. Panamanian Acad. 1960-. *Publications:* El Retorno ■ la Naturaleza 1934, Estudios Literarios 1957, Estampas de Viaje 1959, La Doctrina Gramatical de Bello 1960, Correcciones de Lenguaje 1965, Rubén Darío 1968, Panameñismos 1968, La profunda crisis de la Universidad de Panamá 1969, Panamá la Vieja y Panamá la Nueva 1969, Sobre la defensa del idioma 1973, El español en América 1976, La Gramatica, el Diccionario y la Enseñanza del Idioma 1978. *Address:* Academia Panameña de la Lengua, Panama City; Apartado Postal 7286, Zona 5, Panama City, Republic of Panama. *Telephone:* 64-6101 (Home).

ISBISTER, Claude Malcolm, PH.D.; Canadian international finance official; b. 15 Jan. 1914, Winnipeg, Manitoba; m.; three c.; ed. Univs. of Manitoba and Toronto and Harvard Univ.; Instructor in Math., Univ. of Manitoba 1934-35; Actuary, Sun Life Assurance Co. of Canada, Montreal 1935-39; Instructor, Econs. Dept., Harvard Univ. 1942-45; entered govt. service 1945, served in Bureau of Statistics 1945-47, Dept. of Reconstruction and Supply 1947-49, Dept. of Trade and Commerce 1949-58; Asst. Deputy Minister, Dept. of Finance 1958-63; Dir. Canadian Nat. (West Indies) Steamships Ltd. 1959-62; Deputy Minister, Dept. of Citizenship and Immigration 1963-65, Dept. of Mines and Tech. Surveys 1965-66, Dept. of Energy, Mines and Resources 1966-70; Chair. Dominion Coal Bd. 1969-70; Exec. Dir. IBRD, IFC and IDA 1970-76. *Address:* c/o International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C. 20433, U.S.A.

ISHERWOOD, Christopher; American (b. British) writer; b. 26 Aug. 1904, High Lane, Cheshire; s. of Francis B. Isherwood and Kathleen Machell-Smith; ed. Repton School, Corpus Christi Coll., Cambridge and King's Coll., London (Medical School); *Publications:* Novels: All the Conspirators 1928, The Memorial 1932, Mr. Norris Changes Trains 1935, Good-bye to Berlin 1939, Prater Violet 1945, The World in the Evening 1954, Down There ■■ ■ Visit 1962, A Single Man 1964, A Meeting by the River 1967, The Berlin of Sally Bowles 1976; Plays (with W.H. Auden): The Dog Beneath the Skin 1935, Ascent of F6 1936, On the Frontier 1938; (with Don Bachardy): A Meeting by the River 1972; Autobiography: Lions and Shadows 1938, Kathleen and Frank 1971, Christopher and His Kind 1976; Travel: Journey to ■ War (with W.H. Auden) 1939, The Condor and the Cows 1949; Translations: The Bhagavad-Gita (with Swami Prabhavananda) 1945, Shankara's Crest-Jewel of Discrimination (with Swami Prabhavananda) 1947, Baudelaire's Intimate Journals 1947, The Yoga Aphorisms of Patanjali (with Prabhavananda) 1953; Ramakrishna and His Disciples (biography) 1965, Exhumations (stories, articles, verses) 1966. *Address:* 145 Adelaide Drive, Santa Monica, Calif. 90402, U.S.A.

ISHIBASHI, Kanichiro; Japanese business executive; b. 1 March 1920, Kurume-shi, Fukuoka-ken; s. of Shojiro and Masako Ishibashi; m. Akiko Ishibashi 1944; one s. two d.; ed. Faculty of Law, Univ. of Tokyo; naval service 1943-45; joined Bridgestone Tire Co. Ltd. 1945, Dir. 1949-, Vice-Pres. 1950-63, Pres. 1963-73, Chair. 1973-; Dir. and Adviser Bridgestone Cycle Industry Co. Ltd., Bridgestone LPG Co. Ltd.; fmr. Man. Dir. Japan Fed. of Employers Asscns. *Leisure interests:* pictures, photography, music, golf. *Address:* 1 Nagasaka-cho, Azabu, Minato-ku, Tokyo, Japan. *Telephone:* 03-583-0150.

ISHIBASHI, Shojiro; Japanese company director; b. 25 Feb. 1889; ed. Kurume Commercial School; Pres. Bridgestone Tyre Co. Ltd. 1931, Chair. 1963-73; Chair. Prince Motors Ltd. 1951; Pres. Japan Synthetic Rubber Co. Ltd. 1957, Chair. 1965; Exec. Dir. Nat. Fed. of Econ. Orgs. 1949, Japan Fed. of Employers' Asscns. 1952; Dir. Kurume Univ. 1951; Pres. Bridgestone Gallery 1952; Councillor, Nat. Museum of Modern Art 1952, Society for International Cultural Relations 1957, Nat. Museum of Occidental Art 1959, Nat. Museum of Tokyo 1959; Chair. Ishibashi Foundation 1956; Dark Blue Ribbon Medal 1937, 1939, 1957, 1959, Green Ribbon Medal 1940, Blue Ribbon Medal 1958; Hon. Citizen Kurume City 1956; Légion d'honneur 1960; Grand Officer of Order of Merit of the Italian Repub. 1961; Second Order of Sacred Treasure 1964; and other honours. *Address:* 1 Nagasaka-cho, Azabu, Minato-ku, Tokyo, Japan.

ISHIDA, Hirohide; Japanese politician; b. 1914, Akita Prefecture; ed. Waseda Univ.; mem. House of Reps. 1938-; fmr. Chair. Steering Cttee. of House of Reps.; fmr. Chair. Russo-Japanese Parliamentarians League; Dir. of Cabinet Secr. 1956-57; Minister of Labour 1957-58, 1960-61, 1964-65, 1976-77; Minister of Transport Sept.-Dec. 1976; assoc. of Takeo Miki (*q.v.*); fmr. Acting Sec.-Gen. of Liberal Democratic Party (LDP). *Publications:* Wasurerareta Kodomotachi (Forgotten Children), Ijoji-To Sono Sakuhim (Abnormal Children and Their Works). *Address:* c/o House of Representatives, Tokyo, Japan.

ISHIDA, Kazuto, LL.B.; Japanese judge; b. 1903, Fukui; s. of Tatsuo and Mitsuko Ishida; m. Kyoko Sasaki 1930; two s. three d.; ed. Tokyo Imperial Univ.; Judge, Tokyo District Court 1928-41; Dir. Personnel Affairs Bureau, Gen. Sec. Supreme Court 1947-50; Deputy Sec.-Gen. Supreme Court 1950-56; Chief Judge, Tokyo District Court 1956-60; Sec.-Gen. Supreme Court 1960-62; Pres. Tokyo High Court 1962-63; Assoc. Justice, Supreme Court 1963-67; Chief Justice, Supreme Court 1967-73; Vice-Pres. Int. Legal Soc. of Japan 1960-62; Dir. Japan Bar Assn.; Vice-Chair. World Assn. of Judges 1969-73; Pres. Lawyers' Assn. 1969; Chair. All Japan KENDO Fed. 1974, Int. KENDO Fed. 1974-. *Leisure interests:* swimming, theatre-going. *Address:* 3-9-22, Komachi, Kamakura-Shi, Kanagawa-ken 248, Japan. *Telephone:* 0467-23-2912.

ISHIDA, Taizo; Japanese automobile executive; b. 16 Nov. 1888, Kosugai, Chita-gun, Aichi-kem; s. of Tokuzaburo Sawada and Kau Sawada; m. Masao Kosugi 1944; one d.; ed. Shiga Prefectural Daiichi Junior High School; Pres. Toyoda Automatic Loom Works Ltd. 1948-69, Chair. 1969-, Adviser 1973-; Pres. Toyota Motor Co. Ltd. 1950-61, Chair. 1961-71, Adviser 1971-; Dir. Toyota Motor Sales U.S.A. Inc. 1957, Japan Automobile Mfrs. Assn. Inc. 1951-71; Chair. Textile Machinery Assn. 1951-72; Exec. Dir. Japan Fed. of Employers' Asscns. 1952, Fed. of Econ. Orgs. 1960; Chair. Japan Industrial Vehicles Assn. 1968-71; Hon. Consul of Portugal 1970–; Blue Ribbon Medal 1957; 2nd Order of the Sacred Treasure 1964, 1st Order of the Sacred Treasure 1970. *Leisure interest:* baseball. *Address:* Toyota Motor Co. Ltd., 1 Toyota-cho, Toyota-shi, Aichi-ken 471, Japan. *Telephone:* 0565-28-2121.

ISHIHARA, Takashi; Japanese motor industry executive; b. 3 March 1912, Tokyo; s. of Ichija Ishihara; m. Shizuko Ishihara 1943; ed. Tokyo Univ. entered Nissan Motor Co. Ltd. 1937, Dir. Finance and Accounting 1954; Pres. Nissan Motor Corpn. in U.S.A. 1960; Man. Dir. Nissan Motor Co. Ltd. 1963, Domestic Sales Dir. 1965, Exec. Man. Dir. 1969, Exec. Vice-Pres. 1973, Pres. June 1977-; Dir. Nikkeiren (Japan Fed. of Employers' Asscns.); Councillor Keidanren (Fed. of Econ. Orgs.); Vice-Chair. Japan Automobile Mfrs. Assn.; Blue Ribbon Medal 1974. *Leisure interests:* reading, golf. *Address:* 2-20 Shiroganedai 3-chome, Minato-ku, Tokyo, Japan. *Telephone:* 03-473-3830.

ISHII, Mitsujiro, B.A.; Japanese politician; b. 1889; ed. Kobe Higher Commercial School and Tokyo Higher Commercial School; entered Higher Civil Service 1913; Sec. to Gov.-Gen. of Formosa, concurrently Councillor of Govt.-Gen. of Formosa 1915; Dir. Asahi (Newspaper Publishing Co.) 1925, Man. Dir. 1940-45; Pres. Asahi Movie Manufacturing Co. 1937-41; joined Japan Liberal Party 1946; elected to House of Reps. 1946; Minister of Commerce and Industry, Yoshida Cabinet 1947; Pres. Asahi Broadcasting Co. 1951-52; Dir. Nishi Nippon Railroad Co. Ltd. 1951; Minister of Transportation 1952-54; Chief Sec. of Liberal Dem. Party 1954-55, Chair. Exec. Bd. of Liberal Dem. Party 1955-56, 1960-76; Deputy Prime Minister 1957-58; Minister of Trade and Industry 1960, of Justice 1965-66; Speaker, House of Reps. 1967-76. *Address:* House of Representatives, Tokyo, Japan.

ISHIKAWA, Shigeru, D.ECON.; Japanese economist; b. 7 April 1918; ed. Tokyo Univ. of Commerce (now Hitotsubashi Univ.); attached to Jiji Press News Agency 1945-56, Hong Kong Corresp. 1951-53; Asst. Prof., Inst. of Econ. Research, Hitotsubashi Univ. 1956-63, Prof. 1963-, Dir. 1972-74. *Publications:* National Income and Capital Formation in Mainland China 1965, Economic Development in Asian Perspective 1967, Agricultural Development Strategies of Asia 1970. *Address:* 19-9, 4 chome Kugayama, Suginami-ku, Tokyo, Japan. *Telephone:* 332-8376.

ISHKOV, Aleksandr Akimovich; Soviet government official (retd.); b. 29 Aug. 1905; ed. State Pedagogical Inst., Rostov-on-Don; fish industry 1930-; People's Commissar for fishing industry 1940-46; U.S.S.R. Minister of Fish Industry 1948-50, 1954-57; Head, Fish Industry Dept., U.S.S.R. State Planning Cttee. (Gosplan) 1957-60, Chief, Main Admin. of Fishing Economy (Gosplan) 1960-62; Chair. State Cttee. on the Fishing Econ. 1962-65; Minister of Fisheries 1965-79; Cand. mem. Cen. Cttee. of CPSU 1956-, mem. CPSU 1927-; Deputy to U.S.S.R. Supreme Soviet 1946-50, 1966-; mem. Cttee. of U.S.S.R. Parl. Group; Order of Lenin (five times), Order of Red Banner, Order of Red Banner of Labour, Order of October Revolution, Hero of Socialist Labour and other decorations. *Address:* c/o U.S.S.R. Ministry of Fisheries, 12 Rozhdestvensky Boulevard, Moscow K-45, U.S.S.R.

ISHLINSKY, Aleksandr Yulevich; Soviet applied mathematician; b. 6 Aug. 1913, Moscow; s. of Yuliy Eduardovich Ishlinsky and Sofia Ivanovna Kirillova; m. Natalia Vladimirovna Zaporozhets 1943; ed. Moscow Univ.; Prof., Moscow Univ. 1944-48; mem. CPSU 1940, Ukrainian Acad. of Sciences 1948; Prof. Kiev Univ. 1949-55; Prof. and Head of Dept., Moscow Univ. 1955; Dir. Inst. for Problems in Mechanics U.S.S.R. Acad. of Sciences 1964-; mem. U.S.S.R. Acad. of Sciences 1960-; Deputy Chair. U.S.S.R. Nat. Comm. of Mechanics; Chair. U.S.S.R. Scientific-Tech. Soc.; Regional mem. Int. Fed. Scientific Workers; Deputy to Supreme Soviet U.S.S.R.; Vice-Pres. World Fed. of Eng. Orgs. 1971; Hero of Socialist Labour, Order of Lenin (three times), Order of the October Revolution, Order of the Red Banner of Labour (twice), Order of the Badge of Honour, Lenin Prize 1960, and other decorations. *Publications:* The Dynamics of Ground Masses 1954, The Theory of the Horizon Compass 1956, On the Equation of Problems Determining the Position of Moving Objects by Using a Gyroscope and Measuring Acceleration 1957, The Mechanics of Gyroscopic Systems 1963, Inertial Guidance of Ballistic Rockets 1968, Orientation, Gyroscopes and Inertial Navigation 1975. *Leisure interest:* radiotechnique. *Address:* Institute for Problems in Mechanics, U.S.S.R. Academy of Sciences, 117526 Moscow, prospekt Vernadskogo 101, U.S.S.R.

IŞIK, Hasan Esat; Turkish diplomatist and politician; b. 21 Oct. 1916; ed. Ankara Univ.; Ministry of Foreign Affairs 1940-; Consulate-Gen., Paris 1945-49; Head of Section, Dept. of Commerce and Econ. Affairs, and Dept. of Int. Econ. Relations 1949-52; mem. Perm. Turkish Del. to European Office of UN, Geneva 1952-54; Dir.-Gen. of Dept. of Commerce and Commercial Agreements, Ministry of Foreign Affairs 1954-57; Asst. for Econ. Affairs to Sec.-Gen. of Ministry of Foreign Affairs 1957-62; Amb. to Belgium 1962-64, to U.S.S.R. 1964-65, 1966-68; Minister of Foreign Affairs 1965; Amb. to France 1968-73; Minister of Defence Jan.-Nov. 1974, June-July 1977, 1978-79; *Address:* Ministry of Defence, Ankara, Turkey.

ISKANDER, Fazil Abdulovich, Soviet author; b. 6 March 1929, Sukhumi, Georgian SSR; ed. Maxim Gorky Inst. of Literature, Moscow. *Publications include:* Green Rain 1960; Youth of the Sea 1964; Forbidden Fruit 1966 (trans. Eng. 1972); Summer Forest 1969; Time of Lucky Finds 1970; Tree of Childhood & Other Stories 1970. *Address:* USSR Union of Writers, Ulitsa Vorovskogo 52, Moscow, U.S.S.R.

ISMAIL, Abdul Fattah; Yemeni politician; Sec.-Gen. Yemen Socialist Party; Chair., Pres. Supreme People's Council; Pres. of People's Democratic Republic of Yemen Dec. 1978-. *Address:* Office of the President, Aden, People's Democratic Republic of Yemen.

ISMAIL, Abdul Malek; Yemeni diplomatist; b. 23 Nov. 1937, Aden; m.; three c.; ed. Tawahi and Crater, Aden, Tech. School, Maalla, Khediwi High School, Cairo and Cairo Univ. Faculty of Commerce; [redacted] United Nat. Front; Editor Al-Nour and Hakikah (newspapers) 1961-63; Vice-Chair. Gen. Union of Petroleum Workers 1961-62, Chair. 1962-64; Vice-Pres. Arab Fed. of Petroleum Workers 1962-65; leading mem. Arab Nationalist Movement 1956-63; leading mem. Nat. Front for Liberation of Occupied S. Yemen (FLOSY) 1963-65; Dir. Nat. Front Office, Cairo 1965-66; mem. Gen. Command of Nat. Liberation Front 1966-68; Minister of Labour and Social Affairs 1967-68, of Econs., Commerce and Planning April 1968; Perm. Rep. to UN 1970-73. *Address:* c/o Ministry of Foreign Affairs, Aden, People's Democratic Republic of Yemen.

ISMAIL, Ahmed Sultan, B.SC.; Egyptian mechanical engineer; b. 14 April 1923, Port Said; m. Rawhia Riad 1957; ed. Cairo Univ.; worked [redacted] shift engineer, maintenance engineer at various power stations 1945-64; mem. Exec. Bd. Electrical Projects Corpn. 1964-; Nat. Defence Coll. 1967; Gov. Menufia Prov. 1968-71; Minister of Power 1971-76, Deputy Premier for Production and Minister for Electric Power and Energy 1976-78; Order of Repub. (First Class). *Leisure interests:* reading, travel. *Address:* 43 Ahmed Abdel Aziz Street, Dokki, Cairo, Egypt (Home). *Telephone:* Cairo 933155.

ISMAIL, Mohamed Ali, M.A.; Malaysian bank official and barrister-at-law; b. 16 Sept. 1918, Port Swettenham, Selangor; m. Maimunah binti Abdul Latiff 1949; two s.; ed. Univ. of Cambridge and Middle Temple, London; Controller, Trade Div., Ministry of Commerce and Industry 1955-57; Minister Malaysian Embassy, Washington 1957-58, Econ. Minister 1958-60; Exec. Dir. IBRD, Int. Finance Corpn., Int. Devt. Assn. 1958-60; Deputy Gov. Central Bank of Malaysia 1960-62, Gov. 1962-; Chair. Capital Issues Cttee. 1968-, Malaysian Industrial Devt. Finance Ltd. 1969-; Pres. Malaysian Inst. of Man. 1966-68; Chair. Nat. Equity Corpn. 1978-; Chair. of Council, Malaysia Inst. of Bankers 1978-; mem. Nat. Devt. Planning Cttee. 1962-, Council of Univ. of Malaya 1962-72; Adviser, Nat. Corpn. (PERNAS) 1971-; mem. Foreign Investment Cttee 1974-; mem. Bd. of Govs., Asian Inst. of Man., Manila 1971-; Panglima Mangku Negara 1964, Order of Panglima Negara Bitang Sarawak 1976; Hon. LL.D. (Univ. of Malaya) 1973; Seri Paduka Mahkota Selangor award 1977. *Leisure interests:* golf, swimming, tennis. *Address:* Central Bank of Malaysia, P.O. Box 922, Kuala Lumpur (Office); 23 Jalan Natesa, off Cangkat Tunku, Kuala Lumpur, Malaysia (Home). *Telephone:* 987954 (Office); 940259 (Home).

ISMAIL, Gen. Mohamed Hafez; Egyptian soldier and diplomatist; Asst. Under-Sec. of Foreign Affairs 1960-64; Amb. to U.K. 1964-65, to Italy 1967-69; Adviser to the Pres. on Nat. Security 1971-74; Head of Pres. Cabinet 1973-74; Amb. to U.S.S.R. 1974-76, to France 1977- (also accred. to Ireland). *Address:* Egyptian Embassy, avenue d'Iéna 56, 75016 Paris, France.

ISONG, Clement Nyong, PH.D.; Nigerian economist and banker; b. 20 April 1920, Ikot Osong, South-Eastern State; s. of Nathaniel Udo Isong and Maggie Udo; m. Nne B. Akpaete 1958; two s. four d.; ed. Univ. Coll. Ibadan, Iowa Wesleyan Coll. and Harvard Graduate School of Arts and Sciences; Asst. economist, Fed. Reserve Bank of New York 1957; Lecturer in Econs., Money and Banking, Univ. Coll. Ibadan 1957-59; Sec., Cen. Bank of Nigeria 1959-61, Dir. of Research 1961-62; Adviser to African Dept. of IMF 1962-67; Gov. of Cen. Bank of Nigeria 1967-75, Chair. Bd. of Dirs.; Alt. Gov. for Nigeria, IMF; Chair. Bankers' Cttee., Assn. of African Cen. Banks 1973-75, Man. Dir., Chair. of Bd. FIBA Consultants Ltd. 1976-. *Leisure interest:* photography. *Address:* P.O. Box 7135, Lagos (Office); 3 Bishop Aboyade-Cole Street, Plot 860, Victoria Island, Lagos, Nigeria (Home).

ISSIGONIS, Sir Alec Arnold Constantine, Kt., C.B.E., F.R.S.; British engineer and designer, b. 1906; ed. Battersea Polytechnic, London; Draughtsman, Rootes Motors Ltd. 1933-36; Suspension Engineer, British Motor Corpn. 1956, Chief Engineer 1957-61, Technical Dir. 1961-72; Advanced Design Consultant, British Leyland (Austin-Morris) Ltd. 1972-; designed the Morris Minor 1948, the Mini Minor and Austin Seven 1959, Morris 1100 1962; Leverhulme Medal, Royal Soc. 1966; Hon. D.Tech., Nat. Academic Awards Council 1975. *Address:* British Leyland (Austin-Morris) Ltd., Longbridge, Birmingham, England.

ISTOMIN, Eugène George; American pianist; b. 26 Nov. 1925, New York; m. Marta Montanez Casals 1975; ed. Kyriena Silote, Rudolf Serkin and at Curtis Inst., Philadelphia; Concert pianist 1943-; toured with Adolf Busch Chamber Players 1944-45; first European appearance 1950; charter [redacted] Casals Prades and Puerto Rico festivals 1950-; several world tours; founded Trio with Isaac Stern and Leonard Rose 1961; numerous recordings of solo, orchestral and chamber works. *Leisure interests:* archaeology, history, painting, baseball. *Address:* c/o Hurok Attractions, 730 Fifth Avenue, New York, N.Y. 10019 (Office); 225 West 71st Street, New York, N.Y. 10023, U.S.A. (Home).

ITAKURA, Joji; Japanese banker; b. 3 June 1912, Tokyo; s. of Takuzo and Suga Itakura; m. Tamiko Shibukawa 1941; two s. two d.; ed. Keio Univ.; Man. Dir. Mitsui Bank Ltd. 1968-71, Sr. Man. Dir. 1971-72, Deputy Pres. 1972-74, Pres. 1974-78, Counsellor 1978-; Chair. Tokyo Bankers' Assn. Ltd. *Leisure interests:* 'Go', golf, reading. *Address:* The Mitsui Bank Ltd., 1-2 Yurakucho 1-chome, Chiyoda-ku, Tokyo 100 (Office); 6-8 Shinoharakita 2-chome, Kohoku-ku, Yokohama, Kanagawa Prefecture, Japan (Home). *Telephone:* 501-1111 (Office); 045-401-5155 (Home).

ITALIAANDER, Rolf Bruno Maximilian; German writer, ethnologist and explorer; b. 20 Feb. 1913, Leipzig, Germany (Dutch citizen); s. of Kurt and Charlotte Italiaander; Explorer in Africa for over forty years; Visiting Prof. Inst. for European Studies, Univ. of Vienna 1959, Univ. of Michigan 1961, Hope Coll., Michigan 1961, Kalamazoo Coll., Michigan 1961, American Negro Univ. 1962, Universidade de Bahia and Instituto Joaquim Nabuco, Recife, Brazil 1967; Co-Founder and Hon. Sec. Free Acad. of Art, Hamburg 1948-69; Founder Museum of Naive Art in Hamburg-Rade; Founder

German Translators' Union 1954, Hon. Pres. 1960-; Co-founder Fed. Int. de Traducteurs, Paris; Hon. Consul of Senegal 1964; Pres. Int. Translators Congress, Hamburg 1965; mem. American Acads.; Hon. mem. Risho Koseikai, Japan 1976; Distinguished Achievement Award, Hope Coll., Michigan, U.S.A. 1976; Hans Henny Jahnn Award; Chevalier de l'Ordre national (Senegal) and numerous decorations. *Publications:* Der ruhelose Kontinent 1958, The New Leaders of Africa 1960, Schwarze Haut im roten Griff 1962, Die neuen Männer Asiens 1964, Immer wenn ich unterwegs bin 1963, König Leopolds Kongo 1964, Dappers Afrika 1668 1964, The Challenge of Islam 1964, Im Namen des Herrn im Kongo 1965, Die Friedensmacher 1965, In der Palmweinschenke 1966, Rassenkonflikte in der Welt 1966, Frieden in der Welt 1967, Lebensentscheidung für Israel 1967, Heinrich Barth 1967, Aufstieg und Sturz des Oscar Wilde 1967, Terra Dolorosa (Indoamerika) 1969, Weder Krankheit noch Verbrechen 1969, Junge Kunst aus Afrika: Kongo-Bilder und Verse 1969, Heinrich Barth: Er schloss uns einen Weltteil auf 1969, Akzente eines Lebens 1970, Kultur ohne Wirtschaftswunder 1970, Albanien: Chinas Vorposten in Europa 1970, Von der Hufe zum Museum 1970, Naive Kunst aus aller Welt 1970, Die Wassermühle 1970, Ade, Madam Muh! 1970, Europas neue Sonntagsmaler 1971, Profile und Perspektiven 1971, Argumente kritischer Christen 1971, Die neuen Herren der alten Welt 1972, Moral—wozu? 1972, Partisanen und Profeten 1972, Sukagakkai, Japans neue Buddhisten 1972, Heisses Land (New Guinea) 1972, 12 Grafiken europäischer Naiver 1972, Sepik-Grafik 1973, Eine Religion für den Frieden 1973, Verantwortliche Gesellschaft (Indonesien) 1974, Spass an der Freud (Naive Maler) 1974, Ein Glied in der Kette (play) 1974, Diktaturen im Nacken 1974, Congo-Grafik 1975, Das Geld in der Kunst 1976, Always when I am Travelling 1976, Herausforderung in der Südsee 1977; Biography: Unterwegs mit Rolf Italiaander 1963; Children's musicals: Das grosse Glück des Lampenputzer, Die verrückte Oma, Sascha mit der Zieharmonika, Die Kinda von der Davidswache 1975. *Leisure interests:* meditation, singing, gardening. *Address:* St. Benedictstrasse 29, 2000 Hamburg 13, Federal Republic of Germany. *Telephone:* 6071110 (Museum); 473435 (Home).

ITO, Jirozaemon; Japanese business executive; b. 5 July 1902; ed. Keio Univ.; fmr. Pres. ceramics cos.; Pres. Matsuzakaya Dept. Store Chain 1947-; fmr. Pres. Nagoya Chamber of Commerce; mem. Standing Cttee. Japan Fed. of Employers' Assn. *Address:* Matsuzakaya Department Stores, No. 16-1, Sakae-3-chome, Japan.

ITO, Shinsui; Japanese painter; b. 1898; ed. Kiyokata Art School, Tokyo; Has exhibited many pictures of women incl. A Mirror (Nat. Acad. of Art Prize 1946); organizer of Jitsugetsu Sha, and art league of young painters of promise; mem. Council of the Nat. Art Exhbn.; Sec. Japan Fed. of Art Socs. *Address:* Kita-Kamakura, Kanagawa Prefecture, Japan.

ITOH, Junji; Japanese business executive; b. 10 July 1922, Tsingtao, China; s. of Hideo Itoh and Fudechiyo Itoh; m. Mizuko Takeoka 1953; two s.; ed. Keio Univ.; with Kanegafuchi Spinning Co. Ltd. (now Kanebo Ltd.) 1948-60; Dir. Kanebo Ltd. 1961, Man. Dir. 1964, Exec. Dir. 1966, Vice-Pres. 1968, Pres. 1968-; Pres. Kanebo Cosmetics Inc. 1969-, Kanebo Pharmaceuticals Ltd. 1972-, Kanebo Fabrics Ltd. 1979-, Kanebo Synthetic Textiles Ltd. 1979, Kanebo Synthetic Fibres Ltd. 1979-; Rep. Dir. Nippon Ester Co. Ltd. 1968-; Man. Dir. Japan Fed. of Econ. Orgs. 1968-, Japan Chemical Fibres Assn. 1968-; Vice-Chair. Japan Textile Fed. 1971-72; Trustee, Keio Univ. 1970; Grão Cruz Orden Academico São Francisco (Brazil) 1972. *Address:* Kanebo Ltd., 3-80, Tomobuchi-cho 1-chome, Miyakojima-ku, Osaka 534; 28-9 Denenchofu 3-chome, Ota-ku, Tokyo 145, Japan (Home). *Telephone:* (06) 921-1231 (Office); (03) 722-0011 (Home).

ITOH, Kyoichi; Japanese textile executive; b. 27 May 1914, Kobe; s. of Chubei Itoh and Chiyo (Nagata) Itoh; m. Chikako Hongo 1941; one s. two d.; ed. Kobe Univ.; Dir. Kureha Spinning Co. Ltd. 1956, Man. Dir. 1956-63, Exec. Dir. 1963-64, Pres. 1963-66; Exec. Vice-Pres. Toyobo Co. Ltd. 1966-73, Chair. 1973-74, Gen. Adviser 1974-; Chair. Nippei Industrial Co. 1969; Dir. Toyo Pulp Co. 1965-74, Chair. 1975-; Hon. Consul-Gen. of Salvador, Osaka 1958-. *Leisure interest:* golf. *Address:* Toyobo Co. Ltd., 1-9, Dojima Hama 2-chome, Kita-ku, Osaka 530 (Office); 11-17 Sumiyoshi-Yamate 4 chome, Higashinada-ku, Kobe 658, Japan (Home). *Telephone:* 06-348-3252 (Office); 078-851-5211 (Home).

ITOKAWA, Hideo; Japanese aeronautic engineer; b. 20 July 1912; ed. Tokyo Univ.; Engineer, Nakajima Aircraft Co. 1935-41; Asst. Prof. of Eng. at Tokyo Univ. 1941-48, Prof. 1948-67; Exec.-Dir. Space Eng. Dept., Inst. of Industrial Science 1955-; Pres. Japanese Rocket Soc. 1956-58; Convener Nat. Cttee. on Space Research, Japan Science Council 1956-; mem. Nat. Space Council 1960; Deputy Dir. Inst. of Space and Aeronautical Science 1964-67; Dir. of Systems Research Inst. 1967. *Address:* 34-15, 4-chome, Matsubara, Setagaya-ku, Tokyo, Japan.

ITURBI, José; Spanish pianist, conductor and composer; b. 28 Nov. 1895, Valencia; s. of Ricardo Iturbi and Teresa Baguena; m. María Giner (deceased); one d. (deceased); ed. Conservatoires of Valencia and Paris; has given piano concerts in major cities throughout the world and has conducted most of the world's major orchestras; Musical Dir. Rochester (N.Y.) Philharmonic Orchestra 1935-44; Musical and Artistic Dir. Valencia Symphony Orchestra 1956–; Musical Dir. and Conductor, Bridgeport Symphony Orchestra 1967-72; mem. El Sabio, Real Academia de Bellas Artes de San Fernando (Madrid), Real Academia de Bellas Artes de San Carlos (Valencia); Commdr., Légion d'honneur, Cran Cruz Alfonso X, Medal of St. George (Greece), Gold Medal, Ministry of Labour 1968, Quevedo Gold Medal 1972, Grand Cross Isabel the Catholic (Spain) 1975. *Compositions include* Fantasy (for piano and orchestra), Soliloquy (for orchestra), Spanish Dance (for piano), Cradle Song (for piano), Seguidillas (for orchestra). *Address:* 915 North Bedford Drive, Beverly Hills, Calif. 90210, U.S.A.

IVANOV, Konstantin Konstantinovich; Soviet conductor; b. 21 May 1907, Yefremov, Tula Region; ed. Moscow Conservatoire; Conductor, Great Symphonic Orchestra, All-Union Cttee. for Broadcasting 1941-46; Conductor, Gen. U.S.S.R. State Symphonic Orchestra 1946-65; performances include numerous compositions of Russian and foreign classical and modern composers; numerous tours in U.S.S.R. and abroad; U.S.S.R. State Prize 1949; R.S.F.S.R. Merited Worker of Arts; People's Artist of U.S.S.R. 1958. *Address:* State Philharmonic Society, 21 Ulitsa Gorkogo, Moscow, U.S.S.R.

IVANOV, Yuriy Aleksandrovich; Soviet lawyer and banking official; b. 1927, Moscow; ed. Moscow State Inst. of Int. Relations; Legal adviser Bd. of U.S.S.R. State bank (Gosbank) 1951-61; mem. Bd. of External Trade Bank of U.S.S.R. 1961-64, First Deputy Chair. 1964-69, Chair. 1969-. *Address:* External Trade Bank of U.S.S.R., Kobyevsky pereulok 3/5, Moscow, U.S.S.R.

IVANOV-SMOLENSKY, Anatoliy Grigoriyevich; Soviet pathophysiologist; b. 17 May 1895, St. Petersburg (now Leningrad); ed. Mil. Medical Acad.; Asst. in Inst. of Psychiatry and Psychiatric Clinic of Mil. Medical Acad. 1918-21; worked in field of pathophysiology and psychiatry in laboratory of I.P. Pavlov 1921-45; Head of Moscow Dept. of I.P. Pavlov Inst. of Physiology 1945-50; Dir. Inst. of Higher Nervous Activity of Acad. of Sciences of U.S.S.R. 1952-57; mem. Acad. of Medical Sciences 1950-; Pavlov and State prizewinner. *Publications:* Methods of Investigation of Conditional Reflexes in Man 1928, 1933, Fundamental Problems in Pathological Physiology of the Higher Nervous Activity of Man 1933, Essays on the Patho-physiology of Higher Nervous Activity 1949, I.P. Pavlov's Teaching and Pathological Physiology 1952, Experience of the Objective Study of the Work and Interaction of the First and Second Signal Systems of the Brain 1961, etc. *Address:* U.S.S.R. Academy of Medical Sciences, 14 Ulitsa Solyanka, Moscow 109801, U.S.S.R.

IVANTSOV, Anatoliy Ivanovich; Soviet diplomatist; b. 11 Feb. 1922, Moscow; ed. Moscow Inst. of Railway Transport and High Diplomatic School, Ministry of Foreign Affairs, U.S.S.R.; joined Diplomatic Service 1944; First Sec., Soviet Embassy, Canada 1961-66; ranking official, Ministry of Foreign Affairs, U.S.S.R. 1966-69; Minister to New Zealand 1969-73, Amb. 1973-74. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

IVEAGH, 3rd Earl of; **Arthur Francis Benjamin Guinness;** Irish brewing executive; b. 20 May 1937; m. Miranda Smiley 1963; two s. two d.; ed. Eton Coll. and Trinity Coll., Cambridge; Dir. Arthur Guinness Son & Co. Ltd. 1958, Chair. 1962-, Joint Chair. 1975-78; Chair. 1978-; Dir. Bank of Nova Scotia and several other Canadian cos.; mem. Senate 1973-77. *Leisure interests:* antique Irish silver, 18th-century French drawings, Irish books and bookbindings. *Address:* Arthur Guinness Son & Co. Ltd., St. James's Gate, Dublin 8 (Office); Farmleigh, Castleknock, Co. Dublin, Ireland (Home).

IVEROTH, C. Axel; Swedish business executive; b. 4 Aug. 1914, Ekerö; m. Inger Dorthea Iveroth; two s. two d.; ed. Stockholm School of Econ.; Producer, Swedish Broadcasting Corpn. 1937-41; Sec. Industrial Inst. for Econ. and Social Research 1939-44; Industrial Counsellor, Swedish Embassy, Washington 1944-45; Man. Dir. Cementa 1945-52; Chair. and Man. Dir. Cembureau (Cement Statistical and Tech. Assn.) 1949-57; Dir.-Gen. Fed. of Swedish Industries 1957-77, Vice-Chair. 1977-; Chair. Int. Council of Swedish Industry 1977-; Editor-in-Chief Industria 1946, Swedish-American News Exchange 1952-66; Chair. and Founder Industrial Council for Social and Econ. Studies 1948-60; Chair. Advisory Bd. European Productivity Agency, Paris 1954-56; Chair. Swedish Productivity Council 1957-; Board mem. Gen. Export Assn. of Sweden

1961, Chair. and Exec. Bd. [illegible] 1971-; Chair. Sweden-America Foundation 1970-; Chair. Integration Cttee. of European Industrial Feds. 1958-; Sec.-Gen. Business and Industry Advisory Cttee. to OECD (BIAC) 1962-63, Vice-Chair. 1974-; Vice-Chair. Union des Industries de la Communauté Européene, Brussels 1977-; mem. Bd. Royal Swedish Acad. of Eng. Sciences 1957-; Chair. Securitas Int. AB 1950-, Chair. Byggnads AB Folkhem 1965-; mem. Bd., Atlas Copco AB 1975-, and several other cos.; Knight Commdr. of the Royal Order of Vasa (Sweden), C.B.E. (Hon.), Officier de l'Ordre de la Couronne (Belgium), Commendatore dell'Ordine al Merito della Repubblica Italiana, Order of the White Rose of Finland. *Publications:* Handicraft and Small Industries in Sweden 1943; numerous articles on politics and economics in press and professional journals. *Leisure interests:* angling, farming. *Address:* International Council of Swedish Industry, Storgatan 19, Box 5501, S-114 85 Stockholm 5, Sweden.

IVES, Burl Icle Ivannoe; American actor and singer; b. 14 June 1909, Hunt City, Ill.; [illegible] Helen Ives 1946; one s.; began stage [illegible] 1938; has appeared in the musicals: The Boys from Syracuse, I Married An Angel, Heavenly Express, This is the Army, Sing Out Sweet Land, Knickerbocker Holiday, Paint Your Wagon, Show Boat; the stage plays: The Man Who Came to Dinner, She Stoops to Conquer, Cat on a Hot Tin Roof, Joshua Beene and God; the films: Smokey, Green Grass of Wyoming, Station West, So Dear to my Heart, Sierra, East of Eden, The Power and the Prize, Desire Under the Elms, The Big Country, The Everglades, Cat on [illegible] Hot Tin Roof, The Day of the Outlaw, Our Man in Havana, The Spiral Road, Summer Magic, The Brass Bottle, Mediterranean Holiday, Ensign Pulver, Pt. Barnum's Rocket to the Moon; American Motion Picture Award for best supporting actor (The Big Country) 1959; Hon. LL.D. (Fairleigh Dickinson Coll., Rutherford, N.J.). *Publications:* The Wayfaring Stranger, The Wayfaring Stranger's Notebook, Sailing on a Very Fine Day, Burl Ives' Tales of America; ed. The Burl Ives Song Book, The Burl Ives Book of Sea Songs, The Burl Ives Book of Irish Songs, America's Musical Heritage (six records with sing-along book), Song in America—A New Song Book, Albad the Oaf. *Leisure interests:* sailing, camping.

IVORY, James Francis, M.F.A.; American film director; b. 7 June 1928, Berkeley, Calif.; s. of the late Edward Patrick Ivory and Hallie Millicent De Loney; ed. Univs. of Oregon and Southern California; began to work independently [illegible] film maker 1956; dir., writer and cameraman in first films; Partner, Merchant Ivory Productions (with Indian producer Ismail Merchant) 1962-; has collaborated on screenplay of numerous films with author Ruth Prawer Jhabvala (*q.v.*); Shakespeare Wallah Best foreign Film (Acad. du Cinéma, France) 1968, Finland 1968; Guggenheim Fellow 1974. *Films:* Venice, Theme and Variations 1957, The Sword and the Flute 1959, The Delhi Way 1964, The Householder 1963, Shakespeare Wallah 1965, The Guru 1969, Bombay Talkie 1970, Savages 1972, The Wild Party 1975, Autobiography of [illegible] Princess 1975 (also published [illegible] book 1975), Roseland 1977, The Europeans 1979; TV films: Adventures of a Brown Man in Search of Civilisation 1971, Hullabaloo over Georgie and Bonnie's Pictures 1978. *Leisure interest:* collecting pictures. *Address:* 400 East 52nd Street, New York, N.Y. 10022, U.S.A. *Telephone:* (212) 582-8049 (Office); (212) 759-3694, (518) 851-7808 (Home).

IWAI, Akira; Japanese railwayman and trade unionist; b. 1922; ed. Matsumoto High Elementary School, Nagano Prefecture; Kamisuwa Engine Section, Nat. Railway 1937-42; Mil. Service 1942-46; Engine Driver, Kamisuwa Engine Section, Nat. Railway 1946; Chief Jt. Struggle Dept., Nat. Railway Workers' Union 1950-51, Chief of Planning Dept. 1951-55; Sec.-Gen., Gen. Council of Trade Unions of Japan (SOHYO) 1955; Lenin Prize 1970. *Publications:* We, born in Taisho Era, The Workers, Diary of [illegible] General Secretary. *Address:* Sohyo Kaikan, 8-2 Shiba Park, Minato-ku, Tokyo, Japan.

IWAKOSHI, Tadahiro; Japanese business executive; b. 4 July 1906, Tottori Pref.; [illegible] Kiyoko Shimizu; two d.; ed. Univ. of Tokyo; joined Nissan Motor Co. Ltd. 1937, Dir. 1952, Man. Dir. 1957-60, Exec. Man. Dir. 1960-63, Exec. Vice-Pres. 1963-73, Pres. 1973-76, Vice-Chair. 1976-; Vice-Chair. Japan Automobile Mfrs. Assn. Inc. 1972-; Gov. Dir. Fed. of Econ. Orgs. (Keidanren) 1974-; Blue Ribbon Medal 1971. *Publication:* The Automobile Industry 1968. *Leisure interests:* golf, reading, gardening. *Address:* Nissan Motor Co. Ltd., 17-1, 6-chome, Ginza, Chuo-ku, Tokyo (Office); 10-7, Shimoigusa 1-chome, Suginami-ku, Tokyo, Japan (Home). *Telephone:* 543-5523 (Office).

IWAMA, Kazuo; Japanese electronics industry executive; b. 7 Feb. 1919, Anjo City, Aichi Prefecture; s. of Shin-emon and Suma Iwama; m. Kukuko Morita 1946; one s. two d.; ed. Tokyo Imperial Univ.; joined Tokyo Tsushin Kogyo K.K. 1946 (name changed to Sony Corpn. 1958), Senior Man. Dir. 1966, Deputy Pres. [illegible]d Rep. Man. Dir. 1973-76, Pres. and Chief Operating Officer Jan. 1976-; Chair. of Bd., Sony Corpn. of America Feb. 1978-. *Leisure interests:* golf, baseball. *Address:* Sony Corporation, 7-35, Kita-Shinagawa 6-chome, Shinagawa-ku, Tokyo; 10-3 Himonya, 4-chome, Meguro-ku, Tokyo 152, Japan (Home).

IWASA, Yoshizane; Japanese banker; b. 6 Feb. 1906, Tokyo; s. of Yoshigoro and Nami Shimada, adopted into family of Teizo Iwasa; m. Michi Iwasa 1928; two s. one d.; ed. Tokyo Univ.; joined Yasuda Bank, forerunner of Fuji Bank 1928, Dir. 1948, Vice-Chair. 1948-57, Deputy Chair. 1957-63, Chair of Bd. and Pres. 1963-71, Chair. Advisory Cttee. 1971-75; Counsellor 1975-; Vice-Pres. Fed. of Econ. Orgs. (Keidanren); Chair. Inst. of Developing Economies, Japan-U.S. Econ. Council; Trustee Japanese Cttee. for Econ. Devt. *Leisure interests:* reading and golf. *Address:* 1-5-5, Otemachi, Chiyoda-ku, Tokyo 100 (Office); 5-2-4, Minami-Aoyama, Minato-ku, Tokyo 107, Japan (Home). *Telephone:* 216-2211 (Office); 400-3814 (Home).

IWASAKI, Nobuhiko; Japanese business executive; b. 7 Nov. 1909, Tokyo; two s.; ed. Tokyo Univ.; joined Sumitomo Heavy Industries Ltd. 1933, Dir. 1955; Man. Dir. 1959, Exec. Man. Dir. 1964, Exec. Vice-Pres. 1969, Pres. 1970-73, Chair. 1973-76. *Leisure interests:* stamp collection. *Address:* Sumitomo Heavy Industries Ltd. 2-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo (Office); 7-13-501, Roppongi 1-chome, Minato-ku, Tokyo, Japan (Home). *Telephone:* (03) 245-4015 (Office); (03) 585-2892 (Home).

IWASZKIEWICZ, Jaroslaw; Polish writer; b. 20 Feb. 1894, Kalnik, Ukraine; s. of Maria and Bolesław Iwaszkiewicz; m. Anna Lilpop 1922; two d.; ed. Kijow Univ.; Sec. Polish Embassies, Copenhagen and Brussels 1932-35; Editor Zycie Literackie 1945-46, Nowiny Literackie 1947-48, Twórczość 1955-; Pres. Union of Polish Writers 1945-48, 1959-; Deputy to Seym 1952-; Chair. Soc. for Polish-Italian Friendship; Pres. Polish Center of SEC; mem. Presidium of All-Polish Cttee. of Nat. Unity Front 1971-; mem. World Council of Peace 1950-; Foreign mem. Serbian Acad. of Science 1972; Corresp. mem. Acad. of Arts, German Dem. Repub. 1974; Dr. h.c. (Warsaw) 1971; L. Reynal Prize 1937, Prize of Minister of Culture and Art (1st Class) 1963, 1977, Italian Order of Merit 1965, Lenin Prize 1970, State Prize (First Class) 1970, Order of Banner of Labour, 1st Class 1949, Order of Builders of People's Poland 1964, Frédéric Joliot-Curie Gold Medal 1969, Grand Cross Order of Polonia Restituta 1974, Order of Friendship of Nations (U.S.S.R.) 1974, Hon. Gold Medal for Fighter for Peace (U.S.S.R.) 1974, Grand Officier, Légion d'honneur 1974, and Officier de la Couronne Belge 1977. *Publications:* Verse: Oktostychy 1919, Dionizje 1922, Powrót do Europy (Return to Europe) 1931, Lato 1932 (Summer 1932) 1933, Ody olimpijskie (Olympic Odes) 1948, Ciemne ścieżki (Dark Paths) 1957, Xenie i elegie (Xena and elegies) 1970, Spiewnik włoski (Italian Songbook) 1974, Album Tatrzańskie 1976, Mapa Pogody 1977; Short Stories: Panny [illegible] Wilka (The Girls from Wilko) 1933, Młyn nad Ultratą (Mill on the Utrata) 1936, Nowa miłość (New Love) 1946, Matka Joanna od Aniołów (Mother Joan of the Angels) 1946, Nowele włoskie (Italian Stories) 1947, Tatarak 1960, Opowiadania muzyczne (Music Stories) 1971, Ogrody (Gardens) 1974; Novels: Zmowa mężczyzn (Conspiracy of Men) 1930, Czerwone tarcze (Red Shields) 1934, Pasje błędomierskie (Bledomierski Passions) 1938, Sława i chwała (Fame and Glory) Vol. I 1956, Vol. II 1958, Vol. III 1962, Kochankowie z Marony (Lovers from Marona) 1961; Plays: Lato w Nohant (Summer in Nohant) 1937, Maskarada (Masquerade) 1939, Wesele pana Balzaka (M. Balzac's Wedding) 1959, Kosmogonia (Cosmogony) 1967; Biographies: Fryderyk Chopin 1938, 1953, 1966, Jan Sebastian Bach 1951; Reminiscences: Petersburg 1976, Spotkania z Szymanowskim (Meetings with Szymanowski) 1976· Prose: Zarudzie 1977, Podróże do Włoch (Voyages in Italy) 1977, Podróże do Polski (Voyages in Poland) 1978, Szkice o Literaturze Skandynawskiej (Essays on Scandinavian Literature) 1977, and numerous translations into Polish from English, Danish, French, Spanish, Russian and Italian. *Address:* Twóczość, ul. Wiejska 16, 00-490 Warsaw, Poland. *Telephone:* 58-9363 (Home).

IZMEROV, Nikolay Fedotovich, M.D.; Soviet doctor; b. 19 Dec. 1927, Frunze, Kirghizia; ed. Tashkent Medical School and Moscow Cen. Inst. for Advanced Medical Training; worked [illegible] doctor in Khavast rural areas, Tashkent District; Postgraduate training, Moscow 1952-53; Sr. Insp. U.S.S.R. Ministry of Health 1953-55; Postgraduate training (Municipal Hygiene) 1955-58; doctor in Moscow City Sanitary Epidemiological Station 1956-59; Deputy Dir. (Int. Health), Dept. of External Relations, U.S.S.R. Ministry of Health 1960-62; Vice-Minister of Health of R.S.F.S.R., Moscow and Chief Sanitary Insp. 1962-64; Asst. Dir.-Gen. WHO 1964-71; Dir. Inst. of Industrial Hygiene and Occupational Diseases of the U.S.S.R. Acad. of Medical Sciences 1971-. *Address:* Institute of Industrial Hygiene and Occupational Diseases of the U.S.S.R. Academy of Medical Sciences, 31 prospekt Budennogo, E-275, Moscow, U.S.S.R.

J

JABŁOŃSKI, Henryk, PH.D.; Polish historian and politician; b. 27 Dec. 1909, Waliszewo; ed. Univ. of Warsaw. Prof. Warsaw School of Political Sciences 1946-50, Warsaw Univ. 1950-; mem. Nat. Council 1945-47, Seym 1947-; Deputy Minister of Educ. 1947-53; Sec. Polish Socialist Party 1946-48; mem. Cen. Cttee. Polish United Workers' Party 1948-, Deputy mem. Political Bureau 1970-71, mem. Dec. 1971-; Minister of Higher Educ. 1965-66; Minister of Educ. and Higher Educ. 1966-72; Pres. Council of State (Head of State) March 1972-; corresp. mem. Polish Acad. of Sciences 1952-56, mem. 1956-, Gen. Sec. 1955-65, Vice-Pres. 1966-71; mem. Presidium of All-Polish Cttee. of Nat. Unity Front 1972-76, Chair. 1976-; Chair. Polish Cttee. for Celebration of Int. Children's Year 1979; corresp. mem. Acad. of Romanian Socialist Repub. 1965-; mem. Czechoslovak. Acad. of Sciences 1965-; foreign mem. U.S.S.R. Acad. of Sciences 1966-; mem. Mongolian Acad. of Sciences 1975-; Hon. L.H.D. (Moscow), Dr. h.c. (Higher School of Econs., Wrocław) 1972, (Roland Eotvos Univ.) 1973, (Łódź) 1975, (Wrocław) 1975; State Prize 1955, 1964, Grand Cross, Order of Polonia Restituta 1974, Order of Banner of Labour (First Class) 1959, Order of the Builders of People's Poland 1964, Order of Friendship of Nations, Grand Croix Légion d'honneur, Great Ribbon, Order of Leopold (Belgium) and numerous other orders and decorations. *Publications:* The Military Criminal Court in 1794 1935, Aleksander Waszkowski—Warsaw's Last Military Chief in the Insurrection of 1863-64 1937, Public Opinion, Parliament and the Press, At the Origins of the Present Day 1947, Polish National Autonomy in the Ukraine in 1917-18, 1948, The Policy of the Polish Socialist Party during the First World War 1958, The Birth of the Second Republic 1918-19 1962, School, Teacher, Education 1972, Independence and National Traditions 1978. *Address:* Belweder, Warsaw, Poland.

JACCARD, Pierre, TH.D., D. ÈS L.; Swiss university professor; b. 14 Sept. 1901, Morges; s. of Prof. Henri Jaccard; m. Hélène Faillettaz 1929; one s. three d.; ed. Univs. of Lausanne, Strasbourg, Paris, and Union Theological Seminary, New York; Prof. of French, Wooster Coll., Ohio 1929-34; Prof. of Systematic Theology at Neuchâtel Univ. 1934-40; Prof. of Psychology, Sociology and Social Ethics, Lausanne Univ. 1940-72; Pres. Lausanne Univ. Graduate School of Social and Political Sciences 1954-60; Académie Française prizewinner 1961, 1967. *Publications:* Le sens de la direction et l'orientation lointaine chez l'homme 1932, Trois contemporains: Mauriac, Chardonne, Montherlant 1945, Essais sur la peinture: Breughel, Le Nain, Vermeer 1948, La dignité du travail 1951, Travail et salaire 1951, Politique de l'emploi et de l'éducation 1957, Histoire sociale du travail 1960, La formation des élites 1961, Sociologie de l'education 1962, Investir en hommes 1964, Psychosociologie du travail 1966, Introduction aux sciences sociales 1971, L'inconscient, les rêves, les complexes 1973. *Leisure interests:* literature, travel. *Address:* Avenue de Chailly 31, Lausanne, Switzerland. *Telephone:* 021-32-22-94.

JACKLING, Sir Roger William, G.C.M.G.; British diplomatist; b. 10 May 1913, Hythe, Kent; s. of P. Jackling, O.B.E. and Lucy Jackling; m. Joan Tustin 1938; two s.; ed. Felsted School and Law Soc.; admitted as Solicitor, Supreme Court 1935; Acting Vice-Consul, New York 1940-42; Commercial Sec., Quito 1942-43; Second, then First Sec., Washington 1943-47; Foreign Office 1947; Asst. Sec. Cabinet Office 1950-51; Commercial Counsellor, British Embassy, The Hague 1951-53; Econ. Adviser, British High Comm., Fed. Repub. of Germany 1953-55; Minister (Econ.), Bonn Embassy 1955-57; Counsellor, Washington 1957-59; Asst. Under-Sec. of State 1959-63; Deputy Perm. Rep. to UN 1963-67; Deputy Under-Sec. of State 1967-68; Amb. to Fed. Repub. of Germany 1968-72; U.K. Del. to UN Sea-bed Cttee. 1972-73; Amb. and Leader U.K. Del. to UN Conf. on Law of the Sea 1973-75 (retd.); Chair, Anglo-German Foundation for Study of Industrial Soc. 1973-77. *Publications:* Federal Republic of Germany: Economic Survey 1955. *Leisure interests:* reading, gardening, golf. *Address:* 37 Boundary Road, St. John's Wood, London, NW8 0JE, England. *Telephone:* 01-624 0208.

JACKMAN, Oliver H.; Barbadian diplomatist; b. 10 Aug. 1929, Barbados; m.; one c.; ed. Harrison Coll., Barbados, and Magdalene Coll., Cambridge; broadcaster and journalist, Nigeria 1954-58; Govt. Information Officer, Barbados 1958-59; Deputy Fed. Information Officer, Govt. of West Indies 1959-61; Information Officer and Political Affairs Officer, UN operations in Congo 1961-64; Chief of Information Services, UN Econ. Comm. for Africa, Addis Ababa; Deputy Perm. Rep. to UN 1967-68; Perm. Sec., Ministry of External Affairs 1968-69; Perm. Rep. to UN 1969-71, May 1977-, also Amb. to U.S.; High Commr. to Canada (also accred. to Cuba) 1971-75. *Address:* Embassy of Barbados, 2144 Wyoming Avenue, Washington D.C. 20008, U.S.A.

JACKSON, Edwin Sydney, F.S.A., F.C.I.A., B.COM.; Canadian insurance executive; b. 17 May 1922, Regina, Saskatchewan; s. of late Edwin and Dorothy Hazel Jackson (née Bell); m. Nancy Stovel 1948; three d.; ed. Univ. of Manitoba; joined Mfrs. Life Insurance Co. 1948, Asst. Actuary 1952, Actuary 1956, Actuarial Vice-Pres. 1964, Sr. Vice-Pres. 1969, Exec. Vice-Pres., Dir. 1970, Pres. 1972-; Pres. Canadian Inst. of Actuaries 1966-67. *Leisure interests:* skiing, curling, golf. *Address:* Manufacturers Life Insurance Co., 200 Bloor Street East, Toronto, Ont. M4W 1E5; 101 Stratford Crescent, Toronto, Ont., Canada.

JACKSON, Eric Stead, C.B., M.A.; British civil servant; b. 27 Aug. 1909, Bradford; s. of E. S. Jackson; m. Yvonne Renée Doria de Bretigny 1938; one s. one d.; ed. Corpus Christi Coll., Oxford; on Air Ministry Staff 1932-40; Private Sec. to Minister of Aircraft Production 1942, to Minister Resident in Washington 1943; Dir.-Gen. Aircraft Branch, Control Comm., Germany 1945; Deputy Pres. Econ. Sub-Comm., Berlin 1947; British Head of Del. from Western Zone of Germany to OEEC, Paris 1948; Under-Sec. Ministry of Supply 1950; Dir.-Gen. Atomic Weapons, Ministry of Supply 1956-59; Under-Sec. Ministry of Aviation 1959-67, Ministry of Tech. 1967-70, Dept. of Trade and Industry 1970-71; mem. British Film Fund Agency 1971-. *Address:* 10 Ditchley Road, Charlbury, Oxon., England. *Telephone:* 810682.

JACKSON, Sir Geoffrey (Holt Seymour), K.C.M.G., M.A.; British diplomatist (retd.), writer and broadcaster; b. 4 March 1915, Little Hulton, Lancs.; s. of Samuel S. Jackson and Marie-Cecile Ryder; m. Patricia M. E. Delany 1939; one s.; ed. Bolton School and Emmanuel Coll., Cambridge; Vice-Consul, Beirut, Cairo, Baghdad 1937-46; First Sec., Bogotá 1946-50, Berne 1954-56; Minister, subsequently Amb. to Honduras 1956-60; Consul-Gen., Seattle 1960-64; Sr. British Trade Commr., Ontario 1964-69; Amb. to Uruguay 1969-71; kidnapped and held captive by Tupamaro guerrillas Jan.-Sept. 1971; Deputy Under-Sec. of State 1972. *Publications:* The Oven-Bird (collection of stories) 1972, Peoples' Prison 1973, Surviving the Long Night 1974. *Leisure interests:* golf, swimming, skiing, music. *Address:* 63B Cadogan Square, London, S.W.1, England. *Telephone:* 01-235 6870.

JACKSON, Glenda, C.B.E.; British actress; b. 9 May 1936, Birkenhead, Cheshire; d. of Harry and Joan Jackson; m. Roy Hodges 1958 (divorced 1976); one s.; ed. Royal Acad. of Dramatic Art; fmr. mem. Royal Shakespeare Co. where roles included Ophelia in Hamlet and Charlotte Corday in Marat/Sade (in London and New York); played Queen Elizabeth I in television series Elizabeth R; Hon. D.Litt (Liverpool) 1978; Acad. Award ("Oscar") for Women in Love 1971, for A Touch of Class 1974. *Plays include:* Marat/Sade, New York and Paris 1965, The Investigation 1965, Hamlet 1965, US 1966, Three Sisters 1967, Collaborators 1973, The Maids 1974, Hedda Gabler 1975, The White Devil 1976, Antony and Cleopatra 1978; *films include:* Marat/Sade 1966, Negatives 1968, Women in Love 1969, The Music Lovers 1970, Sunday, Bloody Sunday 1971, The Boy Friend 1971, Mary, Queen of Scots 1971, The Triple Echo 1972, Bequest to the Nation 1972, A Touch of Class 1973, The Romantic Englishwoman 1975, The Tempter 1975, The Incredible Sarah 1976, The Abbess of Crewe 1976, Stevie 1977, Hedda 1977, House Calls 1978. *Leisure interests:* gardening, reading, listening to music. *Address:* Peter Crouch Associates, 191 Wardour Street, London, W.1, England.

JACKSON, Henry M., LL.B.; American lawyer and politician; b. 31 May 1912, Everett, Wash.; of Norwegian parentage; m. Helen E. Hardin 16 Dec. 1961; one s. one d.; ed. Everett High School, Washington and Univ. of Washington Law School; practising lawyer 1935-; mem. House of Reps. for Washington 1941-52; Senator from Washington (Democrat) 1953-; Chair. Democratic Nat. Cttee. 1960-61; Chair. Senate Cttees. Senate Energy and Nat. Resources Cttee., Arms Control Sub-Cttee. of Senate Armed Services Cttee., Perm. Sub-Cttee. on Investigations of the Senate Govt. Affairs Cttee.; Bernard M. Branch Prize (with Charles A. Lindbergh) 1968; Hon. LL.D. (Alaska). *Address:* 137 Russell Senate Office Building, Washington, D.C. 20510 (Office); 1703 Grand Avenue, Everett, Wash. 98201, U.S.A. (Home).

JACKSON, Laura (Riding) (*see* Riding, Laura (Jackson)).

JACKSON, Rashleigh Esmond; Guyanese diplomatist; b. 12 Jan. 1929, New Amsterdam, Berbice; m.; one s. two d.; ed. Queen's Coll., Georgetown, Univ. Coll., Leicester, England, Columbia Univ., New York.; entered public service 1948; Master, Queen's Coll. 1957; Principal Asst. Sec., Ministry of Foreign Affairs 1965, Principal Asst. Sec., Ministry of Foreign Affairs 1965, Perm. Sec. 1969-73; Perm. Rep. to UN 1973-78; Minister for Foreign Affairs and Int. Trade Feb. 1978-; Pres. UN Council for Namibia 1974. *Address:* Ministry of Foreign Affairs, Georgetown, Guyana.

JACKSON, Commdr. Sir Robert Gillman Allen, Kt., K.C.V.O., C.M.G., O.B.E.; Australian international administrator and consultant; b. 8 Nov. 1911, Melbourne, Australia; Royal Australian Navy 1929-37; Royal Navy 1937-41; Dir.-Gen. Middle East Supply Centre and Principal Adviser to War Cabinet Minister 1942-45; H.M. Treasury 1945-; Sr. Deputy Dir. UNRRA 1945-47; Asst. Sec.-Gen. for Co-ordination in UN 1948; Perm. Sec. Ministry of Nat. Devt., Australia 1950-52; Adviser to Govts. of India and Pakistan on Devt. Plans 1952; Chair. Preparatory Comm. for Volta River Project, Gold Coast 1953-56; Chair. Devt. Comm., Ghana 1957-63; Adviser to Pres. of Liberia 1961-75; Sr. Consultant UN Special Fund 1962-65, UN Devt. Programme 1966-68; mem. of and Consultant to Volta River Authority, Ghana 1962-; mem. Comm. [illegible] Mekong Project 1961-77; Adviser to Planning Comm., Govt. of India 1963; Commr. in charge, Survey of UN Devt. Org. 1968-71; Consultant to McKinsey and Co. 1970-; Under Sec.-Gen. UN Relief Operation in Bangladesh 1972-73; Under Sec.-Gen. in charge of UN Humanitarian Operations [illegible] Sub-Continent 1973-77; UN Co-ordinator for Assistance to Zambia 1973-77, to Indochina 1975-77, to Cape Verde 1975-77, to São Tomé and Principe 1977; Special Adviser to Admin. of UNDP 1978-, and to Interim Mekong Cttee. 1978-; Survey of UNIDO country representation 1978; mem. IUCN Comm. on Govt. Policy, Law and Admin.; mem. Cttee. Fédération Mondiale des Villes Jumelées-Cités Unies; services recognized by various govts. in Europe, Asia and Africa; Hon. LL.D. (Syracuse). *Leisure interests:* deep sea fishing, preservation of tigers. *Address:* United Nations, New York, N.Y. 10017, U.S.A.; Palais des Nations, Geneva, Switzerland.

JACKSON, Ronald Gordon, A.C., B.COM., F.A.S.A., F.A.I.M.; Australian business executive; b. 5 May 1924, Brisbane; s. of Rupert Vaughan Jackson and Mary O'Rourke; m. Margaret Alison Pratley 1948; one s. one d.; ed. Brisbane Grammar School and Univ. of Queensland; joined Colonial Sugar Refining Co. (CSR) Ltd. 1941; mil. service 1942-46; Head, Sugar Marketing Div,, CSR Ltd. 1958, Sr. Exec. Officer 1964, Gen. Man. and Dir. 1972-; mem. Bd. Reserve Bank of Australia; mem., Commonwealth Govts.' Econ. Consultative Group; Foundation Chair. Australian Graduate School of Man.; Councillor, Australian Admin. Staff College, Australian Inst. of Urban Studies; Pres. and Chair. German Chamber of Industry and Commerce in Australia; Chair. Commonwealth Govts. Consultative Cttee. on Relations with Japan; Vice-Pres. Australia-Japan Business Co-operation Cttee.; Dir. AAR Ltd.; Trustee, Mitsui Educational Foundation. *Leisure interests:* sailing, fishing. *Address:* Colonial Sugar Refining Co., 1 O'Connell Street, Sydney, N.S.W. 2000, Australia. *Telephone:* 20515.

JACKSON, Roy I., B.SC.; American international civil servant; b. 14 Nov. 1916, Juneau, Alaska; m. Priscilla Wicks; four c.; ed. public schools, Juneau, Univ. of Washington, Seattle and Univ. of British Columbia; Scientist engineer and Asst. Dir., Int. Pacific Salmon Fisheries Comm., New Westminster, B.C. 1943-45; Exec. Dir. Int. North Pacific Fisheries Comm., Vancouver 1955-64, Dir. Fisheries Div., FAO 1964-66; Asst. Dir.-Gen. for Fisheries, FAO 1966-71; Deputy Dir.-Gen. FAO 1971-77; Consultant Int. Fisheries Devt. Jan. 1978-; Fellow, American Inst. of Fishery Research Biologists; mem. American Fisheries Soc., Soc. for Int. Devt., Wilderness Soc.; rep. of FAO at numerous int. confs. and congresses. *Address:* Food and Agriculture Organization, Via delle Terme di Caracalla, Rome, Italy. *Telephone:* 5797.

JACKSON, Gen. Sir William Godfrey Fothergill, G.B.E., K.C.B., M.C., M.A.; British army officer; b. 28 Aug. 1917, Lancashire; s. of late Col. A Jackson and of Mrs. E. M. Jackson (née Fothergill); m. Joan Mary Buesden 1946; one s. one d.; ed. Shrewsbury School, Royal Mil. Acad., Woolwich, King's Coll., Cambridge; commissioned into Royal Engineers 1937; served in Norway, North Africa, Italy, Far East 1939-45; G.S.O.1 Allied Land Forces, S.E. Asia 1945-48; Instructor Staff Coll., Camberley 1948-50, Royal Mil. Acad., Sandhurst 1950-52; Staff and Regimental Service 1952-58; Commdr. Gurkha Engineers 1958-60; Col. Gen. Staff, Minley Div. of Staff Coll., Camberley 1960-62; Deputy Dir. Staff Duties, War Office 1962-65; Imperial Defence Coll. 1965-66; Dir. Chief of Defence Staff Exercise Unison 1966-67; Asst. Chief of Gen. Staff, Ministry of Defence 1968-70; G.O.C.-in-C. Northern Command 1970-72; Quartermaster-Gen. 1973-77; Cabinet Office, Historical Section 1977-78; Gov. and C.-in-C., Gibraltar 1978-; Col. Commdt. of Royal Engineers, and of Gurkha Engineers 1971-; Royal Army Ordnance Corps 1973-; ADC (Gen.) to the Queen 1974-76; King's Medal, Royal Mil. Acad., Woolwich. *Publications:* Attack in the West 1952, Seven Roads to Moscow 1956, Battle for Italy 1967, Battle for Rome 1970, Alexander of Tunis 1972, North African Campaigns 1975, Overlord 1978. *Leisure interests:* writing, gardening, salmon fishing. *Address:* c/o Williams and Glyn's Bank, Kirkland House, Whitehall, London, S.W.1, England.

JACKSON OF LODSWORTH, Baroness (Life Peeress), cr. 1976, of Lodsworth in the county of West Sussex; **Barbara Ward,** D.B.E.; British journalist and economist; b. 23 May 1914; d. of Walter and Teresa Ward; m. Commdr. (now Sir) Robert Jackson (*q.v.*) 1950; one s.; ed. The Convent, Felixstowe, Lycée Molière and Sorbonne Paris, Germany, and Somerville Coll., Oxford; Univ. Extension Lecturer 1936-39; Asst. Editor of The Economist 1940; Gov. of Sadler's Wells and Old Vic Theatres 1944-53, Trustee 1943-; Gov. of BBC 1946-50; Hon. mem. American Acad. of Arts and Sciences; mem. Pontifical Comm. for Justice and Peace 1967–; Visiting Scholar and Carnegie Fellow, Harvard Univ. 1957-68, Albert Schweitzer Prof. of Inst. Econ. Devt., Columbia Univ. 1968-73; Pres. Int. Inst. for Environment and Devt. 1973-; hon. degrees from Surrey, Fordham, Smith, Columbia, Harvard, Georgetown, Utah, Boston and other univs., Canisius, Lake Forest and Kenyon Colls. *Publications:* The International Share-Out 1938, Turkey 1941, (part-author) Hitler's Route to Baghdad 1939, A Christian Basis for the Post-War World 1941, The West at Bay 1948, A Policy for the West 1951, Faith and Freedom 1954, The Interplay of East and West 1957, Five Ideas that Change the World 1959, India and the West 1961, The Rich Nations and the Poor Nations 1962, Nationalism and Ideology 1966, Spaceship Earth 1966, The Lopsided World 1968, The Widening Gap (editor) 1971, Only One Earth (with René Dubos) 1972, The Home of Man 1976. *Address:* The Pound House, Lodsworth, Sussex, GU28 9DE, England.

JACOB, Lieut.-Gen. Sir Edward Ian Claud, G.B.E., C.B., B.A.; British soldier and broadcasting administrator; b. 27 Sept. 1899, Quetta, India; s. of Field-Marshal Sir Claud Jacob, G.C.B., G.C.S.I., K.C.M.G.; m. Cecil Bisset Treherne 1924; two s.; ed. Wellington Coll., Royal Mil. Acad. Woolwich, and King's Coll., Cambridge; 2nd Lieut. Royal Engineers 1918; Capt. 1929; Maj. 1938; Col. 1943; T/Maj.-Gen. 1944; Mil. Asst. Sec. to Cttee. of Imperial Defence 1938 and to War Cabinet 1939-46; attended Confs. at Atlantic Meeting, Washington, Casablanca, Quebec, Moscow, Yalta, Potsdam; retd. July 1946; Controller European Services of of BBC 1946-47; Dir. Overseas Services BBC 1947-52, Dir.-Gen. BBC 1952-59; Pres. European Broadcasting Union 1950-52 and 1954-60; County Council East Suffolk 1960-74; County Council Suffolk 1974-76; Chair. Covent Garden Market Authority 1960-66; Dir. E.M.I. 1960-73, Dir. Fisons 1960-70; Trustee Imperial War Museum 1966-73; Chair. Matthews Holdings Ltd. 1969-76. *Address:* The Red House, Woodbridge, Suffolk, England. *Telephone:* Woodbridge 2001.

JACOB, François, M.D., D.SC.; French professor of genetics; b. 17 June 1920, Nancy; m. Lise Bloch 1947; three s. one d.; ed. Lycée Carnot and Univ. de Paris à la Sorbonne; Officer Free French Forces 1940-45; with Institut Pasteur 1950-, Asst. 1950-56, Head of Lab. 1956-60, Head of Cellular Genetics Unit 1960-; Prof. of Cellular Genetics Coll. de France 1964-; mem. Acad. des Sciences 1976; Foreign [illegible] Royal Danish Acad. of Sciences and Letters 1962, American Acad. of Arts and Sciences 1964; Foreign Assoc. Nat. Acad. of Sciences (U.S.A.) 1969; Foreign mem. Royal Soc., London 1973; Foreign corresp. Acad. Royale Médicale Belgique 1973; Prix Charles Léopold Mayer, Acad. des Sciences 1962, Nobel Prize for Medicine (jointly with A. Lwoff and J. Monod) 1965; Croix de la Libération, Commdr., Légion d'honneur. *Publication:* La logique du vivant 1970. *Leisure interests:* literature, painting, music. *Address:* Institut Pasteur, 28 rue du Dr. Roux, 75015 Paris, France.

JACOBS, Patrick William McCarthy, PH.D., D.SC.; Canadian professor of chemistry; b. 15 Sept. 1923, Durban, S. Africa; s. of Lewis Masterman Jacobs and Florence Edith Jacobs (née McCarthy); m. Elizabeth Mary Menzies 1950; two s. one d.; ed. Natal Univ. Coll. and Imperial Coll., London Univ.; Asst. Lecturer in Physical Chem., Imperial Coll., London 1950-52, Lecturer 1952-62, Sr. Lecturer 1962-64, Reader 1964-65; Prof. of Chem., Univ. of W. Ontario 1965-; Overseas Fellow, Churchill Coll., Cambridge 1973-74. *Publications:* approximately 130 papers in scientific journals. *Leisure interests:* skiing, canoeing, camping. *Address:* Department of Chemistry, University of Western Ontario, London, Ont. N6A 5B7 (Office); Apartment 810, 752 Kipps Lane, London, Ont. N5Y 4V4, Canada (Home).

JACOBS, Robert Allan, A.B.; American architect; b. 16 Sept. 1905; ed. Amherst, Columbia Architectural School; worked with Le Corbusier 1934-35, with Harrison and Fouilhoux 1935-38; in partnership with E. J. Kahn under the name of Kahn and Jacobs 1940-73; Pres. Kahn & Jacobs/Hellmuth, Obata & Kassabaum 1973-76; Chair. Advisory Board, Hellmuth, Obata & Kassabaum 1976-; designed bldgs. for World's Fair, New York 1964; Fellow American Inst. of Architects, Associated Architects on U.S. Mission to the UN; mem. Beaux Arts Inst., Architectural League of New York and New York Bldg. Congress; Hon. Master of Fine Arts (Amherst Coll.) 1957. *Address:* 2 Park Avenue, New York, N.Y. 10016 (Office); 1065 Lexington Avenue, New York, N.Y. 10021, U.S.A. (Home).

JACOBSEN, Frithjof Halfdan, B.LL.; Norwegian diplomatist; b. 14 Jan. 1914; ed. Oslo Univ., London School of Econs. and Political Science; entered Norwegian Foreign Service 1938, served Paris, Moscow and London; Dir.-Gen. Political Affairs Dept. of the Norwegian Foreign Ministry 1955-59; Amb. to Canada 1959-61, to Soviet Union 1961-66; Under-Sec. of State for Foreign Affairs 1966-70; Amb. to Soviet Union 1970-75, to U.K. and Ireland 1975-. *Address:* Embassy of Norway, 25 Belgrave Square, London, S.W.1, England.

JACOBSON, Baron (Life Peer), cr. 1975, of St. Albans, Hertfordshire; **Sydney Jacobson,** M.C.; British newspaper executive; b. 26 Oct. 1908, Zeerust, Transvaal, S. Africa; m. Phyllis June Buck 1938; two s. one d.; ed. Strand School, London, and King's Coll., London; Editor The Leader Magazine 1948-49; Political Editor Daily Mirror 1954-62; Editor Daily Herald 1962-64, The Sun 1964-65; Editor, Dir. The Sun 1965; Editorial Dir. Int. Publishing Corpn. Newspapers 1968-73, Deputy Chair. 1974-75 (retd.); mem. BBC Gen. Advisory Council; Chair. BBC Programmes for Immigrants Advisory Cttee. 1974-. *Leisure interests:* reading, tennis, walking. *Address:* 6 Avenue Road, St. Albans, Herts., England.

JACOBSON, (Alfred) Thurl, M.A.; American petroleum geologist and executive; b. 12 Nov. 1919, Utah; s. of Joseph Alfred Jacobson and Ella Adelia Robison; m. Virginia Lorraine LaCom 1942; one s. two d.; ed. Univ. of Utah; Field Artillery Officer, later Maj. 1941-46; with Amerada Petroleum Corpn., Geologist 1946-47, Man. of Exploration, Calgary, Canada 1948-49, Man. Canadian Div. 1949-56, Man. Int. Operations, Tulsa, Okla. 1956-61, Vice-Pres. 1961-62, Sr. Vice-Pres. 1962-63, Dir. 1963-69, Exec. Vice-Pres. 1963-67, Pres. Dir. and Chief Exec. Officer 1967-69; Pres. and Dir. Amerada Hess Corpn. 1969-72; Petroleum Industry Consultant 1972-76; Worldwide Exploration Admin., Amerada Hess Corpn. 1976-; Croix de guerre (France). *Leisure interests:* tennis, fishing, golf, reading, opera. *Address:* 358 Oxford Drive, Short Hills, N.J. 07078, U.S.A. *Telephone:* 201-379-3657.

JACOBSON, Dan; British (b. South African) writer; b. 7 March 1929, Johannesburg; m. Margaret Pye 1955; two s. one d.; ed. Boys' High School, Kimberly, Univ. of Witwatersrand, S. Africa; worked in business and journalism in S. Africa, settled in England 1955; Fellow in Creative Writing, Stanford Univ., Calif. 1956-57; Prof. of English, Syracuse Univ., N.Y. 1965-66; Visiting Fellow, State Univ. of N.Y. 1971; Lecturer Univ. Coll., London 1975-; Fellow Royal Soc. of Literature, London 1975; John Llewelyn Rhys Award 1958, W. Somerset Maugham Award 1961, Jewish Chronicle Award 1971, H. H. Wingate Award 1978. *Publications:* novels The Trap 1955, A Dance in the Sun 1956, The Price of Diamonds 1957, The Evidence of Love 1960, The Beginners 1965, The Rape of Tamar 1970, The Wonder-Worker 1973, The Confessions of Josef Baisz 1977; short stories: Inklings 1973. *Address:* c/o A. M. Heath & Co., 35 Dover St., London, W.1, England.

JACOBSON, Herbert Laurence, B.A.; American United Nations official; b. 7 April 1915, New York; s. of Benjamin Paul and Katherine (Laurence) Jacobson; m. Baronessa Fiora Ravasini-Osti 1949; two s.; ed. Erasmus Hall and Columbia Coll.; Editor-in-Chief World News, New York (magazine) 1937-40; Head, Radio Dept., MCA, Chicago 1940-41; U.S. Army Officer, Mediterranean 1941-46; Dir.-Gen. Radio Network, Free Territory, Trieste 1946-52; U.S. High Comm., Germany 1953-55; U.S. Embassy, Rome 1955-57; Foreign Business Man., Mondadori Publs., Milan 1957-58; Export Man., Squibb of Italy, Rome 1959-60; Dir., S. Europe, Cotton Council Int., Rome, Barcelona, St. Gall 1960-64; Editor-in-Chief International Trade Forum (GATT) 1964-67; Dir. Int. Trade Centre (UNCTAD-GATT) 1964-76, Dir. Training Cen. American Common Market 1976-; mem. Advisory Bd. Waterloo Lutheran Univ., Ontario 1967; Hon. LL.D. (Waterloo) 1969. *Leisure interest;* book-collecting, tennis. *Address:* c/o United Nations Development Programme, Apartado 4540, San José, Costa Rica; 35 Chemin Grange Canal, Geneva, Switzerland (Home). *Telephone:* 41-45-06.

JACOBSON, Leon Orris, M.D.; American professor of medicine; b. 16 Dec. 1911, Sims, N.D.; s. of John Jacobson and Rachael Johnson Jacobson; m. Elizabeth Louise Benton 1938; one s. one d.; ed. North Dakota State Univ. and Univ. of Chicago; at Univ. of Chicago 1939-, Prof. of Medicine and Head of Haematology Sec. 1951-61, Prof. and Chair. Dept. of Medicine 1961-65, Joseph Regenstein Prof. of Biological and Medical Sciences 1965-, Dean Div. of Biological Sciences and Pritzker School of Medicine 1966-75; mem. Advisory Cttee. on Isotope Distribution, U.S. Atomic Energy Comm. 1952-56, Cttee. for Radiation Studies, U.S. Public Health Service 1951-55; mem. Expert Advisory Panel on Radiation, WHO 1959; U.S. Rep. to Confs. on Peaceful Uses of Atomic Energy, Geneva 1955, 1958; mem. Bd. of Scientific Counsellors, Nat. Cancer Inst. 1963-67; mem. Nat. Advisory Cancer Council, Nat. Insts. of Health 1968-72; mem. Space Biology Advisory Sub-cttee., Space Science and Applications Steering Cttee., NASA 1968-; mem. many other cttees., advisory councils, etc.; Lecturer Int. Congress of Radiology 1950, 1959, Fifth Int. Cancer Congress, Paris 1950, Congresses of Int. Soc. of Haematology 1952-64; Dir. Argonne Cancer Research Hosp. 1951-67, Franklin McLean Memorial Research Inst., Univ. Chicago 1974-77; Janeway Lecture, American Radium Soc. 1953, Jacobaeus Memorial Lecture, Helsinki 1962, Malthe Foundation Lecture, Oslo 1962 and many other guest and hon. lectureships; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, A.A.A.S., American Assen. for Cancer Research, American Coll. of Physicians, American Medical Assen., American Nuclear Soc., Assen. of American Physicians, etc.; mem. Academia Nacional de Medicina de Buenos Aires; Hon. D.Sc. (N. Dakota) 1966; Janeway Medal, American Radium Soc. 1953, Robert Roesler de Villiers Award, Leukemia Soc. 1956, Modern Medicine Award 1963, American Nuclear Soc. Award 1963, Johns Phillips Memorial Award 1975, Theodore Roosevelt Rough Riders Award, State of N.D. 1977, and other awards. *Leisure interests:* gardening, playing piano, reading historical novels. *Address:* University of Chicago, 950 East 59th Street, Chicago, Ill. 60637, U.S.A.

JACOBSON, Nathan, PH.D.; American professor of mathematics; b. 8 Sept. 1910, Warsaw, Poland; s. of Charles Jacobson and Pauline Ida Rosenberg; m. Florence Dorfman 1942; one s. one d.; ed. Univ. of Alabama, Princeton Univ.; Asst. Inst. for Advanced Study, Princeton 1933-34, Lecturer Bryn Mawr Coll. 1935-36; Nat. Research Council Postdoctoral Fellow, Chicago 1936-37; Instructor Univ. of North Carolina 1937-38, Asst. Prof. 1938-40, Assoc. Prof. 1943-47; Assoc. Ground School Instructor, Navy Preflight School 1942-43; Assoc. Prof. Johns Hopkins Univ. 1943-47; Assoc. Prof. Yale Univ. 1947-49, Prof. 1949-, Henry Ford II Prof. of Maths 1964-; Guggenheim Fellow 1951-52, Fulbright Fellow 1951-52; Pres. American Mathematical Soc. 1971-73; Vice-Pres. Int. Mathematical Union 1972-74; hon. mem. London Mathematical Soc.; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Hon. D.Sc. (Chicago) 1972. *Publications:* Theory of Rings 1943, Lectures in Abstract Algebra (3 vols.) 1953-64, Structure of Rings 1956, Lie Algebras 1962, Structure and Representations of Jordan Algebras 1968, On Quadratic Jordan Algebras 1969, Exceptional Lie Algebras 1971, Basic Algebra I 1974, PI—Algebras 1975, and numerous articles. *Leisure interests:* travel, tennis, gardening. *Address:* Department of Mathematics, Yale University, New Haven, Conn. 06520 (Office); 2 Prospect Court, Hamden, Conn., U.S.A. (Home). *Telephone:* 203-624-3581.

JACOTTET, Carl Maurice; Swiss industrialist; b. 7 Feb. 1904, Neuchâtel; s. of Maurice Jacottet and Jeanne (née Fitz); m. Charlotte Zeutschler 1928; two d.; ed. Gymnasium Hildesheim, and Philipps Univ., Marburg. Behring-Werke, Marburg 1922-29; Sandoz Ltd., Basel, Switzerland 1929-, Sub-Man. 1939-44, Deputy Man. 1944-48, Man. 1949-56, mem. Exec. Cttee. 1956-67, Man. Dir. 1960-63, Vice-Chair. 1964-67, Chair. Exec. Cttee. 1967-73, Chair. of Bd. 1968-76, Hon. Chair. and mem. of Presidium 1976-; Vice-Pres. Swiss American Soc.; Treas. Inst. Henry Dunant; Hon. mem. Acad. Suisse des Sciences Médicales 1969-; Fellow, Royal Soc. for the Encouragement of Arts, Manufactures and Commerce (F.R.S.A.) 1972-; Hon. Dr. rer.pol. (Basel) 1962. *Leisure interests:* history, music, fine arts. *Address:* Sandoz Limited, CH-4002 Basel (Office); 34 Therwilerstrasse, CH-4153 Reinach BL, Switzerland (Home). *Telephone:* (061) 24-11-11 (Office); 76-19-10 (Home).

JACQUEMARD, Simonne; French novelist, journalist and traveller; b.6 May 1924; ed. "Les Oiseaux" and Univ. of Paris; Teacher of Music, Latin and French; collaborator, Laffont-Bompiani Dictionaries; contributor to Figaro littéraire, La table ronde; travelled in U.S.S.R., Egypt, Greece, Italy, N. Africa and Spain; Prix Renaudot 1962; Chevalier, Ordre des Arts et des Lettres. *Publications:* Les fascines 1951, Sable 1952, La leçon des ténèbres 1954, Judith Albarès 1958, Planant sur les airs 1960, Compagnons insolites 1961,

Le veilleur de nuit 1962, L'oiseau 1963, L'orangerie 1963, Les derniers rapaces 1965, Dérive au zénith 1965, Exploration d'un corps 1965, Navigation vers les îles 1967, L'eruption du Krakatoa 1969, La thessaliene 1973, Des roses pour [illegible] chevreuils 1974, Le mariage berbère 1975; studies on music (with Lucette Descave), and on bird life and observation of wild animals. *Address:* 72 rue de Gergovie, 75014 Paris, France.

JACQUINOT, Louis, D.IUR.; French lawyer and politician; b. 16 Sept. 1898; ed. Coll. de Bar-le-Duc; served French army 1914-19; called to Paris Bar; Deputy 1932-40, 1945-73; Under-Sec. for Interior 1939-40; served French Army 1940; escaped and joined Gen. de Gaulle; Commr. for Navy 1943; Minister of War 1944-45; Pres. Gen. Council of the Meuse 1945-73; Minister of State 1945, for Navy 1945-47, for Overseas Territories 1951, 1953-54; Presidential candidate 1954; Minister of State 1958-61; Minister for Overseas Territories 1961-66; Pres. Nat. Comm. for Admin. of Territories 1967-71; Commdr., Légion d'honneur, Croix de guerre (1914-18, 1939-45), Rosette de la Résistance, and other medals. *Address:* 3 avenue Maréchal Maunoury, Paris 7e, France.

JACQUINOT, Pierre, D.SC.; French physicist; b. 18 Jan. 1910, Frouard; m. Françoise Touchot 1937; three s. one d.; ed. Univ. de Nancy; Research Scientist, Centre Nat. de la Recherche Scientifique (C.N.R.S.) 1933-42; Faculty of Science, Université de Clermont-Ferrand 1942-46; Pres. French Physical Soc. 1958-59; Prof. Univ. de Paris à la Sorbonne 1946-; Dir.-Gen. C.N.R.S. 1962-69; Prof. Faculty of Science, Orsay and Dir. Lab. Aimé Cotton (C.N.R.S.) Orsay 1969-78; mem. Académie des Sciences 1966, Vice-Pres. 1979-; Holweck Prize (Physical Soc. of London and French Physical Soc.) 1950, Jaffé Prize (Institut de France) 1962, Gold Medal of C.N.R.S. 1978. *Address:* Laboratoire Aimé Cotton CNRS II, Bat. 505 Campus, 91 Orsay, France. *Telephone:* 9076050.

JACQUOT, Pierre Elie; French army officer; b. 16 June 1902, Vrécourt, Vosges; m. Lucie Claire Mamet 1929; one s. (killed in action Oran 1962), one d.; ed. Ecole Spéciale Militaire de St.-Cyr, Ecole Supérieure de Guerre; rose from Capt. to Lieut.-Gen. 1939-54; G.O.C.-in-C., Indo-China 1955-56; G.O.C.-in-C. French forces in Germany 1956-59; Gen. 1957; Insp.-Gen. French Land Forces 1959-61; C.-in-C. Allied Forces Cen. Europe 1961-63; Grand-Croix, Légion d'honneur 1961. *Publications:* Essai de stratégie occidentale 1953, La stratégie périphérique devant la bombe atomique 1953. *Address:* 5 rue du Mesnil, Vrécourt, 88140 Contrexéville, France.

JAEGER, John Conrad, D.SC., F.A.A., F.R.S.; Australian professor of geophysics; b. 3 July 1907, Sydney; s. of Carl Jaeger and Christina L. Sladden; ed. Sydney Church of England Grammar School, and Sydney and Cambridge Univs.; Lecturer, subsequently Prof. of Applied Mathematics, Univ. of Tasmania 1935-51; Prof. of Geophysics 1952-72, Emer. Prof. 1973-, and Head of Dept. of Geophysics and Geochem., Australian Nat. Univ. 1965-71. *Publications:* Conduction of Heat in Solids (with H. S. Carslaw) 2nd edn. 1959, Fundamentals of Rock Mechanics (with N. G. W. Cook) 1969, and four other books; numerous scientific papers. *Leisure interests:* farming, collecting steam engines. *Address:* Private Bag 5, Post Office, Sorell, Tasmania 7172, Australia.

JAEGER, Richard, DR.IUR.; German politician; b. 16 Feb. 1913, Berlin-Schoneberg; s. of late Dr. Heinz and Elsbeth Jaeger; m. Rose Littner 1939; one s. five d.; ed. Maximilian Gymnasium, Munich, Ludwig-Maximilians Universität, Munich, Humboldt-Universität zu Berlin and Rheinische Friedrich-Wilhelms-Universität, Bonn. Military Service, Second World War 1939-45; Govt. Counsel, Bavarian Ministry of Educ., Munich 1947-48; Lord Mayor Eichstätt, Bavaria 1949; mem. Bundestag 1949-, Vice-Pres. Bundestag and Chair. Defence Cttee. 1953-65; Fed. Minister of Justice 1965-66; Vice-Pres. Bundestag 1967-; Pres. German Atlantic Assn. 1957-; Vice-Pres. Atlantic Treaty Assn. 1958-66; Christian Social Union (CSU); Grosskreuz des Bundesverdienstordens and other decorations. *Publications:* Soldat und Bürger—Armee und Staat 1956, Sicherheit und Rüstung 1962, Richard Jaeger-Bundestagsreden. *Address:* Bundeshaus, 53 Bonn, Federal Republic of Germany. *Telephone:* Bonn 16 27 17.

JAENICKE, Joachim; German diplomatist; b. 2 Aug. 1915, Breslau (now in Poland); s. of Wolfgang Jaenicke; m. Jane Nicholl Jaenicke 1942; two s. one d.; ed. Univ. of Geneva, Graduate Inst. of Int. Studies, Geneva, Haverford Coll., and Fletcher School of Law and Diplomacy, U.S.A.; Teacher of Modern Languages and History, Westtown School, Pennsylvania 1941-46; Asst. Prof. of History and German, Earlham Coll., Richmond, Indiana 1946-48; returned to Germany 1948; German Foreign Service 1950-; Vice-Consul, New York 1951; Second Sec., Washington 1951-55; Chief, American Section, Fed. Press Office, Bonn 1955-56; Chief of Press Section and Spokesman of German Foreign Office, Bonn 1956-58; Counsellor, Ottawa 1959-62; Far East Desk, Foreign Office 1962-63; Dir. in Div. of Political Affairs, North Atlantic Treaty Org. (NATO), Paris 1963-65, Asst. Sec.-Gen. for Political Affairs, NATO, Brussels 1966-69; Amb. to Yugoslavia 1969-75; Deputy Asst. Sec. and Amb.-at-Large, Foreign Office, Bonn 1975-77; Amb. to Argentina 1977-. *Leisure interests:* swimming, golf, photography. *Address:* Embassy of the Federal Republic of Germany, Casilla de Correo 2979, Buenos Aires, Argentina.

JAFFAR, Khalid Mohammad; Kuwaiti diplomatist; b. 12 June 1922; ed. Mubarakia School, Kuwait; Schoolteacher 1940-43; Chief Cashier, Kuwait Municipality 1943-45; Kuwait Oil Co. 1945-61; mem. of Goodwill Mission to Latin American Countries 1961; Lord Chamberlain to Amir of Kuwait 1961-62; Head of Cultural and Press Dept., Foreign Office, Kuwait 1962; mem. del. to UN; deputized for Under-Sec. of State, Ministry of Foreign Affairs 1962-63; Amb. to U.K. 1963-65, to Lebanon 1965-70, concurrently to France 1965-67, and to Turkey 1968-73, concurrently to Bulgaria, Greece 1971-73, to U.S.A. (also accred. to Argentina, Canada and Venezuela) July 1975-; Chair. Kuwait Investment Bd. in London 1964-65. *Address:* Embassy of the State of Kuwait, 2940 Tilden Street, N.W., Washington, D.C. 20008, U.S.A.

JAGAN, Cheddi, B.SC., D.D.S.; Guyanese politician; b. 22 March 1918, Plantation Port Mourant, Berbice; m. Janet Jagan (*q.v.*) 1943; one s. one d.; ed. Queen's Coll., Guyana, Howard Univ., Washington, YMCA (now Roosevelt) Coll., Chicago and Northwestern Univ. Dental School, Chicago; mem. Legis. Council 1947-53; Leader of People's Progressive Party, formed 1950; Minister of Agric., Lands and Mines and Leader of House of Ass. April-Oct. 1953; six months' political imprisonment 1954; Minister of Trade and Industry 1957-61; Leader and Chief Minister of the PPP Majority Party 1957-61; First Premier British Guiana (now Guyana), Minister of Devt. and Planning 1961-64; Leader of Opposition 1964-73, 1976-79; Gen. Sec. PPP 1970-; Pres. Guyana Peace Council; mem. Presidential Cttee. of World Peace Council; Hon. Pres. Guyana Agricultural Workers' Union. *Publications:* Forbidden Freedom 1954, Anatomy of Poverty in British Guiana 1964, The West on Trial (autobiography) 1966, West Indian State Pro-Imperialist or Anti-Imperialist 1972, The Struggle for a Socialist Guyana 1976, Trade Unions and National Liberation 1977. *Leisure interest:* tennis. *Address:* 65 Pln. Bel Air, E.C.D., Guyana. *Telephone:* 72096 (Office); 62899 (Home).

JAGAN, Janet; Guyanese politician; b. 20 Oct. 1920, Chicago, Ill., U.S.A.; d. of Charles and Kathryn Rosenberg; m. Cheddi Jagan (*q.v.*) 1943; one s. one d.; Gen. Sec. People's Progressive Party 1950-70; Editor Thunder 1950-56; Deputy Speaker House of Assembly 1953; six months' political imprisonment 1954; Minister of Labour, Health and Housing 1957-61; Minister of Home Affairs 1963-64; Editor Mirror 1969-72, 1973-78; Int. Sec. PPP 1970-78; mem. Nat. Assembly 1976-78; mem. Exec. Council, Int. Org. of Journalists; Bureau mem., Women's Int. Dem. Fed. *Publications:* History of the People's Progressive Party 1971, Army Intervention in the 1973 Elections in Guyana 1973, An Examination of National Service 1976. *Leisure interest:* swimming. *Address:* 65 Pln. Bel Air, E.C.D., Guyana.

JAGANNATHAN, S., B.SC.(HONS.); Indian civil servant and international banking official; b. 18 May 1914; m.; two s.; ed. Univs. of Madras and London, and Imperial Defence Coll., London; recruited in London to Indian Civil Service 1935; Sub-div. Officer and later Under Sec. to Govt., Province of Bihar 1936-42; in Defence, Supply and Civil Divs. of Ministry of Finance, Govt. of India 1942-46; Deputy Sec., Cabinet Secr. of Govt. of India and also of Partition Secr. for the Partition of India into the Dominions of Pakistan and India 1946-47; Deputy Sec. Ministry of Commerce 1948; Chief Controller of Imports 1949; Dir.-Gen. of Shipping 1950-53; Jt. Sec. Ministry of Production 1953-56; Additional Sec. (in charge of External Finance) Ministry of Finance 1958-60; Financial Commr. Indian Railways 1960-66; mem. Atomic Energy Comm. of India 1926-68; Perm. Sec. Ministry of Finance (Dept. of Econ. Affairs) and Alt. Gov. for India in Int. Bank for Reconstruction and Devt. (IBRD) and affiliates 1966-68, Exec. Dir. for India of IBRD and its affiliates 1968-70; fmr. Gov. Reserve Bank of India, Bombay; Del. to numerous int. confs. *Address:* c/o Reserve Bank of India, Bombay 1, India.

JAGGER, Mick; British vocalist, song writer and actor; b. 26 July 1943, Dartford, Kent; m. Bianca Pérez Morena de Macías 1971; one c.; ed. London School of Econs., London Univ.; began singing career with Little Boy Blue and the Blue Boys whilst at L.S.E.; appeared with Blues Inc. at Ealing Blues Club, Singer with Blues Inc. at London Marquee Club 1962; formed Rolling Stones 1962; wrote songs with Keith Richard under pseudonyms Nanker, Phelge until 1965, without pseudonyms 1965-; first own composition to

reach no. 1 in U.K. charts The Last Time 1965; first major U.K. tour 1964; major U.S. tours 1964, 1966, 1969, 1972, 1973, 1975; toured Europe 1973, the Americas 1975; title role in film Ned Kelly 1969, appeared in Performance 1969, Gimme Shelter 1972; lived in France for some years. Records: singles include: Come On 1963, I Wanna Be Your Man 1963, It's All Over Now 1964, Little Red Rooster 1964, Satisfaction 1965, Jumping Jack Flash 1968, Honky Tonk Women 1969, Brown Sugar 1971, Miss You 1978; albums include: The Rolling Stones 1964, The Rolling Stones No. 2 1965, Out of Our Heads 1965, Aftermath 1966, Between the Buttons 1967, Their Satanic Majesties Request 1967, Beggar's Banquet 1968, Let it Bleed 1969, Get Yer Ya-Ya's Out 1969, Sticky Fingers 1971, Exile on Main Street 1972, Goat's Head Soup 1973, It's Only Rock'n'Roll 1974, Black and Blue 1976, Some Girls 1978. *Address:* Cheyne Walk, Chelsea, London, S.W.3, England.

JAGIELSKI, Mieczysław, DR. ECON.; Polish economist and politician; b. 12 Jan. 1924, Kołomyja, Poland; ed. Main School of Planning and Statistics, Warsaw, and Scientific Cadres Educational Inst., Cen. Cttee. of Polish United Workers' Party; mem. Youth Fighting Union 1945-46; mem. Polish Workers' Party 1946-48, Polish United Workers' Party 1948-, mem. Cen. Cttee. 1959-, Deputy mem. Political Bureau of Cen. Cttee. 1964-71, mem. Dec. 1971-; Seym Deputy 1957-; Vice Minister of Agric. 1957-59, Minister of Agric. 1959-70; Deputy Chair. Council of Ministers June 1970-; Perm. Rep. of Poland to COMECON 1971-75; Chair. Planning Comm. attached to Council of Ministers 1971-75; Asst. Prof. Main School of Planning and Statistics, Warsaw 1975-; Order of Banner of Labour (First and Second Class), Order of Builders of People's Poland and other decorations. *Address:* Urząd Rady Ministrów, Aleje Ujazdowskie 1/3, 00-583 Warsaw, Poland.

JAGVARAL, Nyamyn; Mongolian politican; b. 4 May 1919; ed. Inst. of Oriental Studies, Moscow; Chairman, Cttee. of Sciences and Higher Educ. 1953-57; Minister of Agriculture 1957-61; Deputy Chair. Council of Ministers 1957-61, 1961-69; Chair. State Rural Construction Comm. 1971-; Chair. State Comm. for Winter and Spring Control of Livestock 1973-; Deputy to People's Great Hural (Assembly); cand. mem. Political Bureau, Mongolian People's Revolutionary Party (MPRP) Cen. Cttee. 1958-60, mem. Political Bureau 1960-; Sec. MPRP Cen. Cttee. 1963-; mem. Acad. of Sciences. *Address:* c/o Central Committee of the Mongolian People's Revolutionary Party, Ulan Bator. Mongolia.

JAHANSHAHI, Abdol Ali, PH.D.; Iranian economist; b. 25 Sept. 1924, Teheran; s. of Shafi and Soghra Jahanshahi; m. Lili Amirkhosrovi 1954; one s. four d.; ed. Paris Univ.; with Ministry of Justice 1946-57; Univ. of Teheran 1957; Bank Melli Iran 1957-60; Vice-Gov. Bank Markazi Iran 1962-63; Minister of Educ. 1964; Minister of State 1964-65; Chancellor, Nat. Univ. of Iran 1965-66; Alt. Exec. Dir. World Bank (IBRD) 1966-71; Gov. Bank Markazi Iran (Cen. Bank of Iran) 1971-73; Amb. to the European Communities 1974-79.

JAHN, Gerhard; German lawyer and politician; b. 10 Sept. 1927, Kassel; s. of Ernst and Lilly (née Schlüchterer) Jahn; m. Anna Waas 1950; one s. two d.; ed. Humanistisches Friedrichs Gymnasium and Universität Marburg; qualififed as lawyer 1957; Parl. man. Sozial-Demokratische Parteil (SPD) 1961; Parl. State Sec. to Minister of Foreign Affairs 1967; Minister of Justice 1969-74; Grosses Bundesverdienstkreuz 1973. *Leisure interest:* photography. *Address:* 355 Marburg/L., Am Richtsberg 1, Federal Republic of Germany.

JAICKS, Frederick Gillies; American business executive; b. 26 July 1918, Chicago; m. Mignon Dake 1954; two s. one d.; ed. Hinsdale High School, Cornell, and Harvard Univs.; joined Inland Steel Co. ■ open hearth trainee 1940; served in U.S. Navy during Second World War; served in various positions in steelmaking operations at Inland Steel Co.'s Indiana Harbour Works, E. Chicago 1945-54; Asst. Gen. Man. of Primary Production 1956-59; Gen. Man. Indiana Harbour Works 1959-61; Vice-Pres. Steel Mfg.1961-62; Vice-Pres. Mfg. and Research 1962-63; Dir. Inland Steel Co.1963-, Pres. 1966-71, Chair. and Chief Exec. Officer 1971-; Dir. Carson Pirie Scott and Co. 1969-; Dir., mem. Exec. Cttee. First Nat. Bank of Chicago 1971-; Dir. R.R. Donnelley & Son 1973-; mem. Assen. of Iron and Steel Eng., American Iron and Steel Inst. (Dir., mem. Exec. Cttee. 1971-), American Inst. of Mining, Metallurgical and Petroleum Eng., Conf. Bd. 1971-, Cornell Soc. of Eng., Nat. Open Hearth Conf.; Dir. Int. Iron and Steel Inst. 1971-; official of many other orgs.; Hon. LL.D. (St. Joseph's Coll.) 1968; Benjamin F. Fairless Award 1971; Management Man of the Year, Nat. Man. Assen. 1972. *Leisure interest:* scouting. *Address:* Inland Steel Co., 30 West Monroe Street, Chicago, Ill. 60603 (Office); 81 Graymoor Lane, Olympia Fields, Ill. 60461, U.S.A. (Home).

JAIDAH, Ali Mohammed, M.SC.; Qatari international official; b. 1941, Doha; ed. London Univ.; Head of Econs. Div. in Dept. of Petroleum Affairs, Ministry of Finance and Petroleum 1966-71, Dir. of Petroleum Affairs in Dept. of Petroleum Affairs 1971-76; mem. Exec. Office of OAPEC; Gov. for Qatar, OPEC until Dec. 1976; Sec.-Gen. OPEC Jan. 1977-79; mem. Bd. of Dir., Qatar Gen. Petroleum Corpn.; Head of dels. to OPEC, OAPEC and other petroleum confs. *Address:* c/o Ministry of Finance and Petroleum, P.O. Box 36, Doha, Qatar.

JAIN, Surendra Kumar, M.A., LL.M.; Indian international official; b. 22 Dec. 1922, India; s. of Padam Sain Jain; m. Chakresh Kumari Jain 1941; ed. High School, New Delhi, Punjab Univ. and Lucknow Univ. Lecturer, Delhi School of Law, Delhi Univ. 1946-47; joined Int. Labour Office, Geneva 1947, Chef de Cabinet to Dir.-Gen. 1957-59, Dir. Office for Near and Middle East, Istanbul 1959-62, Field Office for Asia, Colombo 1962-65, Regional Dir. for Asia, Bangkok 1966-75, Deputy Dir.-Gen. in charge of Tech. Programmes June 1975-; Gold Metal (Lucknow Univ.). *Publications:* articles on labour and social problems in International Labour Review and other journals. *Leisure interests:* photography, swimming, badminton, music. *Address:* International Labour Office, 1211 Geneva 22 (Office); 32 rue Daubin, 1203 Geneva, Switzerland (Home). *Telephone:* 99-65-31 (Office); 45-80-82 (Home).

JAKOBOVITS, Rabbi Immanuel, PH.D.; British Rabbi; b. 8 Feb. 1921, Königsberg, Germany (now Kaliningrad, U.S.S.R.); s. of Rabbi Dr. Julius Jakobovits and Paula Wreschner; m. Amélie Munk 1948; two s. four d.; ed. Jews' Coll. London, Yeshivah Etz Chaim, London, Univ. of London. Minister of Brondesbury Synagogue, London 1941-44, of South East London Synagogue 1944-47, of Great Synagogue, London 1947-49; Chief Rabbi of Ireland 1949-58; Rabbi of Fifth Avenue Synagogue, New York 1958-67; Chief Rabbi of the United Hebrew Congregations of the British Commonwealth of Nations, London 1967-; Hon. D.D. *Publications:* Jewish Medical Ethics 1959, Journal of a Rabbi 1966, Jewish Law Faces Modern Problems 1966, The Timely and the Timeless 1977. *Address:* Office of the Chief Rabbi, Alder House, Tavistock Square, London, W.C.1, England.

JAKOBSEN, Frode, M.A.; Danish politician; b. 21 Dec. 1906, Mors; s. of Ole Jakobsen and Ane Mette Lorentsen; m. 1st Ruth Goldstein 1937 (died 1974), one s. one d.; m. 2nd Agnes Malé 1977; ed. Univ. of Copenhagen; agricultural worker until 1925; Lecturer in Phil. and Literature until 1940; Leader, Resistance Movement 1941-45; founder-mem. Danish Freedom Council (illegal govt. during occupation) 1943-45; Chief of all armed underground forces 1943-45; mem. Cabinet May-Nov. 1945; M.P. 1945-73; Civil Chief of Home Guard 1948-72; mem. Consultative Assembly, Council of Europe 1949-64, Vice-Pres. 1953-54; mem. Govt. Cttee. for Foreign Affairs; Pres. European Movement in Denmark 1949-64; Social Dem. Party; mem. Danish Defence Cttee., Govt. Cttee. on Disarmament Questions 1966-; Danish Del. to UN 1956-57, 1961, 1973, Head of Del. 1962-65; Int. Council, Congress for Cultural Freedom 1960-66. *Publications:* Nietzsches Kamp med den kristelige Moral 1940, The European Movement and the Council of Europe 1950, Europe—and Denmark 1953, Standpunkter 1966, Nej, Der Skal Ikke Ties 1972, I Danmarks Frihedsraad 1975, Da Leret Tog Form 1976, Alt hvad der jager min sjael 1977. *Leisure interest:* ornithology. *Address:* Hedetoften 5, 2680 Solröd Strand, Denmark. *Telephone:* 0314 1968.

JAKOBSON, Max; Finnish journalist and diplomatist; b. 1923, Viipuri: s. of Jonas and Helmi (née Virtanen) Jakobson, m. Marilyn S. Medney 1954; two s. one d.; Journalist until 1953; Press Attaché, Finnish Embassy, Washington 1953-59; Chief of Press Dept., Ministry of Foreign Affairs 1959-62; Asst. Dir. for Political Affairs, Ministry of Foreign Affairs 1959-62, Dir. 1962-65; Perm. Rep. of Finland to UN 1965-72; Amb. to Sweden 1972-75; Man. Dir. Council of Econ. Orgs. in Finland 1975-. *Publications include:* The Diplomacy of the Winter War and Finnish Neutrality. *Address:* Rahapajankatu 3B 17, 00160, Helsinki 16, Finland. *Telephone:* 651884.

JAKOBSON, Roman, PH.D.; American philologist; b. 11 Oct. 1896, Moscow; s. of Osip Jakobson and Anna Volpert; m. Krystyna Pomorska 1962; ed. Lazarev Inst. of Oriental Languages, Moscow Univ. and Prague Univ.; Prof. of Russian Philology, Masaryk Univ. Brno 1933-39; Visiting Lecturer, Univs. of Copenhagen, Oslo, Uppsala 1939-41; Prof. Ecole Libre des Hautes Etudes, New York 1942-46; Prof. Columbia Univ. 1943-49; Samuel Hazzard Cross Prof. of Slavonic Languages, Literatures and Gen. Linguistics, Harvard Univ. 1949-67, Prof. Emer. 1967-; Inst. Prof. at M.I.T. 1957-; Visiting Prof., Yale Univ. 1967, Princeton 1968, Brown 1969-70, Brandeis 1970, Collège de France 1972, Louvain Univ. 1972, New York Univ. 1973, Bergen Univ. 1976; mem. Polish Acad. of Sciences,

Norwegian Acad. of Sciences, Royal Danish Acad. of Sciences, American Acad. of Arts and Sciences, Serbian Acad. of Sciences, Netherlands Acad. of Sciences, Irish Acad. of Sciences, Italian Acad., Bologna, British Acad., Finnish Acad., New York Acad. of Sciences; Pres. Linguistic Soc. of America 1956; Vice-Pres. of Int. Cttee. of Slavicists, Int. Assn. for Semiotic Studies; Fellow, Center for Advanced Study in the Behavioural Sciences 1958-59, 1960-61, and Center for Cognitive Studies at Harvard 1967-69; Consultant to UNESCO Dept. of Social Sciences 1965-69; Visiting Fellow, Salk Inst. for Biological Studies 1966-69; mem. Finnish Acad.; Hon. mem. Int. Phonetic Assn., Finno-Ugrian Soc., Helsinki, American Assn. for Armenian Studies and Research, Czechoslovak Soc. of Arts and Sciences, Royal Soc. of Letters, Lund, Philological Soc., London; Royal Anthropological Inst. of G.B. and Ireland, Acad. of Aphasia; Hon. Pres. Tokyo Inst. for Advanced Studies of Language 1967-; mem. Hon. Council Phonetic Soc. of Japan; Dr. h.c. (Cambridge, Oslo, Uppsala, Michigan, New Mexico, Grenoble, Nice, Prague, Rome, Yale, Chicago, Clark, Ohio State, Zagreb, Brno, Louvain, Tel-Aviv, Harvard and Copenhagen Univs.); American Council of Learned Socs. award 1960, American Assn. for the Advancement of Slavic Studies 1970, Légion d'honneur and other awards. *Publications:* Novejshaja russkaja poezija, O cheshskom stikhe: Nejstarsi ceske pisne duchovni, Remarques sur l'évolution phonologique du russe, K kharakteristike evrazijskogo jazykovogo sojuza, Beitrag zur allgemeinen Kasuslehre, Kindersprache, Aphasie und allgem. Lautgesetze, La geste d'Igor, Preliminaries to Speech Analysis (with G. Fant and M. Halle), Ivan Fedorov's Primer, Fundamentals of Language (with M. Halle), Selected Writings I 1962, II 1971, IV 1966, V 1979, Essais de linguisitique générale I 1963, II 1973, Sofonija's Tale of the Russian-Tatar Battle (with D.S. Worth) 1963, Studies on Child Language and Aphasia 1971, Bibliography 1971, Low German Manual of Spoken Russian 1607 (with L. Hammerich) I 1961, II 1970, Shakespeare's Verbal Art 1970, Questions de Poétique 1973, Main Trends in the Science of Language 1973, Aufsätze zur Linguistik und Poetik 1974, Pushkin and his Sculptural Myth 1975, N.S. Trubetzkoy's Letters and Notes 1975, Coup d'oeil sur le développement de la semiotique 1975, Six leçons sur le son et le sens 1976, The Sound Shape of Language (with L. Waugh) 1979, etc. *Leisure interest:* travelling. *Address:* Harvard University, Boylston Hall 301, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-868-5619.

JAKUBOWSKI, Janusz Lech; Polish scientist; b. 9 Dec. 1905, Warsaw; s. of Władysław and Wiktoria (Handzelewicz) Jakubowski; m. 1st Hanna Wiszniewska 1931; m. 2nd Zofia Wysocka-Bernadzikiewicz 1948; one d.; Prof. of High Voltage Tech., Warsaw Polytechnic 1938-; mem. Polish Acad. of Sciences, mem. Presidium 1952-69; Dir. Centre Polish Acad. of Sciences in Paris 1959-61; corresp. mem. Acad. des Sciences, Inscriptions et Belles Lettres de Toulouse 1962; UNESCO Project Man., École Nat. Polytechnique, Algiers 1967-71; Chair. Cttee. of Electrotechnics, Polish Acad. of Sciences; State Prize 1950, Officer's and Commdr's Cross, Order of Polonia Restituta 1951, 1954, Order of Banner of Labour 2nd Class 1965, 1st Class 1977, Silver Medal Société d'Encouragement pour la Recherche et Invention (France) 1968. *Publications:* New method of High Voltage Measurement 1935, Measurement of Distorted High Voltages 1937, Actual Problems of High Voltage Engineering 1939, High Voltage Engineering 1951, Travelling Waves in High Voltage Systems 1962, Over Voltages in High Voltage Systems 1968, and numerous articles. *Leisure interest:* ecology of coral reefs. *Address:* Ul. Iganska 9 m. 2, 04-087 Warsaw, Poland. *Telephone:* Warsaw 10-11-71.

JALAL, Mahsoun, B., PH.D.(ECON.); Saudi Arabian international official; b. 26 June 1936; m. Michele Marie Garein Jalal 1967; two s. one d.; ed. Cairo Univ., Rutgers Univ. U.S.A. Univ. of California, U.S.A.; Professor, Chair. Dept. of Econs., Riyadh Univ. 1967-75; Consultant to various Govt. agencies 1967-75; formed the first private econ. and man. consultancy firm in Saudi Arabia, the Consulting Centre; Vice-Chair. Man. Dir. Saudi Fund for Devt. 1975-; mem. Civil Service Council 1975-; Dir. Saudi Int. Bank 1975-, also Dir. Saudi Basic Industries Corpn., Chair. Saudi Investment Banking Corpn., Gov. OPEC Special Fund, Trustee Arab League Org. for Educ., Culture and Science; Exec. Dir. IMF 1978–; Golden Star, First Class (Taiwan) 1978, Tanda Mahputera (Indonesia) 1978. *Publications:* Principles of Economics, other books and articles on econ. devt. and econ. theory. *Leisure interests:* travel, sports. *Address:* International Monetary Fund, 700 19th Street, N.W., Washington, D.C. 20431; Home: 1432 Lady Bird Drive, McLean, Va. 22101, U.S.A. *Telephone:* (202) 477-7162 (Office); (703) 356-4526 (Home).

JALALLAR, Mohammed Khan; Afghan politician; b. 6 Dec. 1936, Andkhoi; ed. Commerce Vocational School, Kabul and Kabul Univ.; mem. Finance Dept., Ministry of Planning 1958-63, Dir. Coordination Dept. 1963-67, Pres. Financial Section 1967-71; Deputy Minister of Finance 1971-72, Minister of Finance 1972-73, of Commerce 1974-78; Golden Minapal Award. *Address:* c/o Barat Ali, Afzal Marleet, Kabul, Afghanistan.

JALLOUD, Major Abdul Salam Ahmed; Libyan army officer and politician; b. 15 Dec. 1944; ed. Secondary School, Sebha, Mil. Acad., Benghazi.; [redacted] of Revolutionary Command Council 1969-77, Gen. Secr. of Gen. People's Congress March 1977-; Minister of Industry and the Econ., Acting Minister of the Treas. 1970-72; Prime Minister 1972-77. *Address:* General Secretariat of the General People's Congress, Tripoli, Libya.

JAMAL, Amir Habib, B.COMM. (ECON.); Tanzanian politician; b. 26 Jan. 1922, Dar es Salaam; ed. primary school, Mwanza, secondary school, Dar [redacted] Salaam, and Univ. of Calcutta, India; elected mem. Tanganyika Legis. Council 1958; Minister of Urban Local Govt. and Works 1959, of Communication, Power and Works 1960; Minister of State, President's Office, Directorate of Devt. 1964; re-elected M.P. 1965; Minister of Finance 1965-72; Minister for Commerce and Industries 1972-75, of Finance and Econ. Planning 1975-77, of Communications and Transport 1977-; Dr. h.c. (Uppsala) 1973. *Address:* c/o Ministry of Communications and Transport, P.O. Box 9144, Dar es Salaam, United Republic of Tanzania.

JAMAL, Jasim Yousif; Qatar diplomatist; b. 17 Sept. 1940; m.; three c.; ed. Northeast Mo. State Univ., New York Univ.; Ministry of Education, Dir. Admin. Affairs 1958-63, Cultural Adviser, U.S. 1963-68, Dir. of Cultural Affairs 1968-72; Perm. Rep. to UN 1972-, concurrently accred. [redacted] Amb. to Canada, Brazil and Argentina. *Address:* Permanent Mission of Qatar to United Nations, 747 Third Avenue, 22nd Floor, New York, N.Y. 10017, U.S.A.

JÁMBOR, Ági; American pianist; b. 4 Feb. 1909, Budapest, Hungary; d. of Vilmos Jámbor and Olga Riesz; ed. Budapest Acad. of Music under Kodály and Weiner, and Musikhochschule, Berlin; regular concert tours throughout U.S.A.; Full Prof., Dept. of Music and Anthropology/Ethno-Musicology, Bryn Mawr Coll., Pa. 1958-77, Prof. Emer. 1977-; Curator of Music Instruments, Univ. Museum, Pa.; Brahms Prize, Deutsche Akad., Berlin 1928, Int. Chopin Prize, Warsaw 1937. *Address:* Bryn Mawr College, Bryn Mawr, Pa. 19010 (Office); 103 Pine Tree Road, Radnor, Pa. 19087, U.S.A. (Home). *Telephone:* MU8-8683 (Home).

JAMES, Harold L., PH.D.; American geologist; b. 11 June 1912, Nanaimo, B.C., Canada; of Welsh parentage; m. Ruth Graybeal 1936; four s.; ed. Washington State Univ. and Princeton Univ. Geologist, U.S. Geological Survey 1941-, Chief Geologist 1965-71, Research Geologist 1971-; Visiting Lecturer, Northwestern Univ. 1953, 1954; Prof., Univ. of Minnesota 1961-65; mem. Nat. Acad. of Sciences; Pres. Soc. of Econ. Geologists 1970. *Publications:* About 40 papers in professional journals and in U.S. Geological Survey. *Leisure interests:* reading, fishing, writing. *Address:* U.S. Geological Survey, 1617 Washington Street, Port Townsend, Washington 98368, U.S.A. *Telephone:* 415-467-2650 (Office); 206-385-0878 (Home).

JAMES, Sir (John) Morrice Cairns (*see* Saint Brides, Baron).

JAMES OF RUSHOLME, Baron (Life Peer), cr. 1959, Kt. (cr. 1956); **Eric John Francis James,** D.PHIL. (Oxon.); British educationist; b. 13 April 1909, Derby; s. of Francis and Lilian James; m. Cordelia Wintour 1939; one s.; ed. Taunton's School, Southampton and Queen's Coll., Oxford. Asst. Master Winchester Coll. 1933-45; High Master The Manchester Grammar School 1945-62; Vice-Chancellor, Univ. of York 1962-73; mem. Univ. Grants Cttee. 1948-58; Chair. Headmasters Conf. 1953 and 1954; mem. Cen. Advisory Council for Educ. 1957; Fellow, Winchester Coll. 1963; mem. Press Council 1963-67, Social Science Research Council 1965-69; Chair. Cttee. on Training and Educ. of Teachers 1970-71; Chair. Personal Social Services Council 1973-76; mem. Royal Fine Arts Comm. 1973-, Chair. 1976-; Hon. Fellow Queen's Coll., Oxford 1960; Hon. LL.D. (McGill, York, Toronto), Hon. D.Litt. (New Brunswick), D. Univ. (York). *Publications:* Elements of Physical Chemistry (in part) 1938, Science and Education (in part) 1942, An Essay on the Content of Education 1949, Education and Leadership 1951. *Address:* Penhill Cottage, West Witton, Leyburn, Yorkshire, England.

JAMESON, (Margaret) Storm, M.A.; British novelist; b. 1891, Whitby, Yorkshire; d. of William Storm Jameson; m. Guy Patterson Chapman 1924 (died 1972); one s.; ed. Leeds Univ. and King's Coll. London; Pres. English PEN Club 1938-1945; Hon. mem. American Acad., Inst. of Arts and Letters; Hon. D.Litt.; PEN Fiction Prize 1974. *Publications:* Modern Drama in Europe 1920, The Lovely Ship 1927, Farewell to Youth 1928, The Voyage Home 1929, A

Richer Dust 1931, That Was Yesterday 1932, A Day Off 1933, No Time Like the Present 1933, Company Parade 1934, Love in Winter 1935, In the Second Year 1936, None Turn Back 1936, Delicate Monster 1937, The Moon is Making 1937, Civil Journey 1939, Farewell Night, Welcome Day 1939, Europe to Let 1940, Cousin Honoré 1940, The Fort 1942, Then We Shall Hear Singing 1942, Cloudless May 1943, The Journal of Mary Hervey Russell 1945, The Other Side 1945, Before the Crossing 1947, The Black Laurel 1948, The Moment of Truth 1949, The Writer's Situation and Other Essays 1950, The Green Man 1952, The Hidden River 1955, The Intruder 1956, A Cup of Tea for Mr. Thorgill 1957, A Ulysses Too Many 1958, Last Score 1961, Road from the Monument 1962, The Aristide Case 1964, The Early Life of Stephen Hind 1966, The White Crow 1968, Journey from the North (autobiography) Vol. 1 1969, Vol. 2 1970, Pathian Words 1970, There Will Be ■ Short Interval 1973, Speaking of Stendhal 1979; editor Guy Chapman's A Kind of Survivor 1975. *Address:* c/o Macmillan London Ltd., 4 Little Essex Street, London, W.C.2, England.

JAMIESON, Donald Campbell; Canadian politician; b. 30 April 1921, St. John's, Newfoundland; s. of Charles and Isabelle Jamieson; m. Barbara Oakley 1946; one s. three d.; fmr. broadcasting exec., from St. John's, Newfoundland; Minister of Supply and Services 1968-1969; Minister of Transport 1969-72, of Regional Econ. Expansion 1972-75, of Industry, Trade and Commerce 1975-76; Sec. of State for External Affairs 1976-79; Liberal. *Leisure interests:* Bally Haly golf club, Rotary club, fishing, hunting, boating. *Address:* 4 Winter Place, St. John's, Newfoundland, Canada. (Home).

JAMIESON, John Kenneth, B.S.; American (b. Canadian) oil executive; b. 28 Aug. 1910, Medicine Hat, Alberta; s. of John L. and Kate Alberta Herron Jamieson; m. Ethel May Burns Jamieson 1937; one s. one d.; ed. Univ. of Alberta and Massachusetts Inst. of Technology. British American Oil Co., Canada 1934-48; Vice-Pres. Imperial Oil Co. Ltd., Toronto 1948-58; Pres. Int. Petroleum Co. Ltd., Florida 1959-61; Vice-Pres. Exxon Co., U.S.A., Houston, Texas 1961-62, Exec. Vice-Pres. 1962-63, Pres. 1963-64; Exec. Vice Pres. Exxon Corpn. 1964-65; Pres. and Dir. 1965-69, Chair. of Bd. 1969-75, Dir. 1975-; Chair. Bd. Crutcher Resources Corpn. 1976-; Dir. Chase Manhattan Bank 1965-76, Equitable Life Assurance Soc. of the U.S. 1971-, Mercantile Texas Corpn. 1976, Raychem Corpn. 1977-; Consultant World-Wide Shipping Group 1976-. *Leisure interests:* golf, fishing. *Address:* 1100 Milam Building, Suite 4601, Houston, Tex. 77002, U.S.A. *Telephone:* (713) 656-6694.

JANCSÓ, Miklos; Hungarian film director; b. 27 Sept. 1921, Vác; s. of Sándor Jancsó and Angela Poparad; m. Márta Mészfos 1958; two s. one d.; studied legal sciences and ethnography at Kolozsvár (now Cluj), Romania, and Budapest Coll. of Cinematographic Art; worked at newsreel studio 1953-58; Documentary film studio 1962; Chief Producer, Hunnia Film Studio 1963-; Grand Prix of San Francisco 1961, Prize of Fédération Internationale de la Presse Cinématographique (FIPRESCI), Béla Balázs prize 1965, Merited artist of the Hungarian People's Repub. 1970, Best Dir. Award, Cannes Festival 1972, Kossuth Prize (2nd Degree) 1973. *Films:* A harangok Rómába mentek (The Bells have gone to Rome) 1959, Oldás és Kötés (Cantata) 1963, Szegény Legények (The Round-Up) 1966, Igy Jöttem (My Way Home) 1965, Csillagosok—Katonák (The Red and the White) 1967, Csend és Kiáltás (Silence and Cry) 1968, Fényes Szelek (The Confrontation) 1969, Sirókkó (Winter Wind) 1969, Agnus Dei 1971, Red Psalm 1972, Elektreia (Electra) 1975, Private Vices, Public Virtues 1976, Hungarian Rhapsody 1978, Allegro Barbaro 1978; For Italian TV: Il Tecnico e il Rito, Roma rivuole Cesare, La Pacifista; Stage production: Othello 1974. *Address:* MAFILM Studio, Lumumba utca 174, Budapest XIV (Office); Rózsa Ferenc-utca 71, H-1064, Budapest VI, Hungary (Home). *Telephone:* 831-750 (Office); 311-853 (Home).

JANEWAY, Eliot, B.A.; American economist, author and lecturer; b. 1913, New York; s. of Meyer J. and Fanny Siff Janeway; m. Elizabeth Hall 1938; two s.; ed. Cornell Univ. and London School of Econs.; Business Editor and Adviser to Editor-in-Chief, Time and Business Trends Consultant, Newsweek 1932-50; now Pres. Janeway Publishing & Research Corpn.; Treas. American PEN Center; Syndicated columnist, Chicago-Tribune New York News Service; econ. adviser to numerous industries, govt. officials and private companies. *Publications:* The Struggle for Survival 1952, The Economics of Crisis 1968, What Shall I do with my Money 1970, You and Your Money 1972, Musings on Money 1976. *Leisure interest:* reading political history. *Address:* 15 East 80th Street, New York, N.Y. 10021, U.S.A. *Telephone:* 212-249-8833.

JANIUREK, Włodzimierz; Polish politician and journalist; b. 21 Sept. 1924, Chorzów; engaged ■ manual worker during occupation, then ■ ■ journalist with Trybuna Robotnicza, Katowice, then in Press Dept. of Cen. Ctee., Polish United Workers' Party (PZPR); Editor-in-Chief Trybuna Robotnicza 1954-66; Amb. to Czechoslovakia 1966-71; Under-Sec. of State for Information to Council of Ministers, Govt. Press Spokesman 1971-; Deputy to Seym (Parl.) 1957-69; mem. Cttee. on Foreign Affairs; Chair. Sub-Cttee, for Poles Living Abroad; Sec. Polish-British Group of Inter-parliamentary Union 1957-69; alt. mem. Cen. Ctee. PZPR 1975-; Gold Cross of Merit 1954, Knight's Cross, Order of Polonia Restituta 1955, Order of Banner of Labour (1st Class) 1974, Medal of Thirty Years of the Polish People's Repub. 1974 and several foreign decorations. *Publications:* books on politics and economics, collections of newspaper articles. *Address:* Urząd Rady Ministrów PRL, Al, Ujazdowskie 1/3, 00-583 Warsaw, Poland.

JANKOWITSCH, Peter, D.D.L.; Austrian diplomatist; b. 10 July 1933, Vienna; s. of Karl Jankowitsch and Gertrude (née Ladstaetter) Jankowitsch; m. Odette Prevor 1962; one s.; ed. Vienna Univ. and The Hague Acad. of Int. Law; fmr. lawyer; joined foreign service 1957, worked in Int. Law Dept.; Private Sec., Cabinet of Minister of Foreign Affairs 1959-62; posted to London 1962-64; Chargé d'affaires, Dakar, Senegal 1964-66; Head of Office of Bruno Kreisky, Chair. Austrian Socialist Party 1967; Chief of Cabinet of Fed. Chancellor (Kreisky) 1970-72; Perm. Rep. to UN 1972-78; Perm. Rep. to OECD 1978-; Chair. UN Cttee. on Peaceful Uses of Outer Space 1972-; Rep. for Austria to UN Security Council 1973-75, Pres. Security Council Nov. 1973, Vice-Pres. 29th Gen. Assembly; Vice-Pres. 7th Special Session of Gen. Assembly Sept. 1975; mem. UN Security Council Mission to Zambia 1973; mem. of Bd., Vienna Inst. for Devt. 1973-; Vice-Pres. Austro-African Soc. 1967-; mem. Bd. Austrian Foreign Policy Soc. and Austrian UN League. *Publications:* numerous newspaper and review articles on economic development of the Third World, in particular Africa; contrib. to Wörterbuch des Völkerrechts, 1960. *Leisure interests:* history and baroque music. *Address:* Permanent Mission of Austria to OECD, 3 rue Albéric Magnard, F-75016 Paris, France. *Telephone:* 870 74 45.

JANN, Adolf Walter, DR.IUR.; Swiss business executive; b. 22 Sept. 1911, Altdorf (Uri); s. of Dr. med. Adolf Jann and Josefine Huber; m. Lydia Eicher 1940; three s. one d.; ed. Univs. of Berne, Paris and London; Sec., Swiss Bankers' Assen. 1937-45; joined Union Bank of Switzerland 1945, Gen. Man. 1949; Vice-Pres. of Bd., F. Hoffmann-La Roche and Co. Ltd. 1957, Pres. and Man. Dir. 1965-78; Dir. Union Bank of Switzerland. *Publication:* Das Bankgeheimnis im Schweizerischen Recht 1937. *Leisure interests:* swimming, mountain climbing, hunting. *Address:* Toblerstrasse 107, CH 8044, Zürich, Switzerland. (Home). *Telephone:* 34-68-11.

JANNE, Henri, D.PHIL. ET LETTRES; Belgian university professor and sociologist; b. 20 Feb. 1908, Brussels; s. of Emile and Anne (née Matthys) Janne; m. Elisabeth Houtman 1936; one s.; ed. Athenée Royal d'Ixelles, Univ. of Brussels; Directed a number of govt. econ. and social services, including Dir. Office Nat. des Vacances Ouvrières 1936, Dir.-Gen. Rééquipement Nat. 1947, Dir.-Gen. Coordination Economique (Prime Minister's Office) 1949; Chef du Cabinet, Ministries of Econ. Affairs, Supplies, and Econ. Co-ordination 1945-49; Pres. Defence Production Bd. NATO 1949-51; Pres. Belgian del. to UN Econ. and Social Council 1954 session; Prof. of Sociology, Univ. of Brussels 1951-; Dir. Institut de Sociologie Solvay 1953-56; Pres. Conseil Nat. du Travail; Prof. Coll. of Europe, Bruges 1952-; mem. Senate 1961; Minister of Nat. Educ. and Culture 1963-65; Vice-Pres. Nat. Council for Scientific Policy; mem. Int. Cttee. for Social Sciences Documentation, Int. Cttee. of UNESCO for Social Science Terminology 1954, Libre Académie de Belgique; Pres. Acad. Royale de Belgique des Sciences et des Lettres 1973, Coll. Scientifique de l'Inst, de Sociologie; Rector Brussels Univ. 1956-59; Pres. d'honneur de l'Assen. Int. des Sociologues de Langue française; Pres. Scientific Cttee. of Plan 2000 Educ., European Cultural Foundation 1968; mem. Bd. Int. Council on the Future of the Univ. 1973; mem. of Gov. Bd. of Centre for Educ. Research and Innovation, OECD 1969-70; mem. of Bd. of Trustees of Int. Council for Educ. Devt. (ICED); Chair. Adult Educ. Experts Cttee., Council of Europe 1974-; Corresp. mem. Inst. de France 1974; Croix de guerre avec palme, Officier, Légion d'honneur, Commdr. de l'Ordre de Léopold II. *Publications:* L'antialcibade 1946, Sociologie et politique sociale dans les pays occidentaux 1962, Technique, développement économique et technocratie 1963, Le système social, essai de théorie générale 1968, Le temps du changement 1970, Educational Needs of the Age Group 16-19 1973, For a Community Policy on Education 1973, Foundations of Lifelong Education 1976, Le développement européen de l'éducation permanente (with Bertrand Schwartz) 1977. *Leisure interest:* travelling. *Address:* Avenue Jeanne 44, 1050 Brussels (Office); 244 Ave. Louise, Bôite 13, 1050 Brussels, Belgium. (Home). *Telephone:* 649-49-94.

JANOT, Raymond Marcel Louis, L. EN D., L. ÈS L.; French civil servant; b. 9 March 1917, Paris; s. of Gaston Janot and Madeleine Paumier; m. Catherine de Brunel de Serbonnes; two s. two d.; ed. Coll. Stanislas, Lycée Henry-IV, Paris Univ. and Ecole Libre des Sciences Politiques; Auditeur, Conseil d'Etat 1946, Maître des Requêtes 1948; Legal Counsellor, Présidence de la République 1947-51; Econ. Counsellor French High Comm. in Indo-China 1951-52; Dir. du Cabinet, Minister for Relations with Associated States 1952-53; Sec.-Gen. Conseil d'Etat 1956-59; Mayor of Serbonnes, Conseiller général of canton of Sergines 1959-; Tech. Counsellor, Gen. de Gaulle 1958-59; Sec.-Gen. French Community 1959-60; Dir.-Gen. Radio-diffusion-Télévision Française 1960-62; mem. Conseil d'Etat 1962-; Pres. Devt. Cttee. of Yonne 1964-; mem. Econ. and Social Cttee. Bourgogne 1974-; Vice-Pres. Syndicat Nat. de l'Industrie Pharmaceutique 1975-; Officier, Légion d'honneur, Croix de guerre, Médaille des Évadés. *Address:* 11 avenue d'Eylau, 75116 Paris, France. *Telephone:* 727-72-89.

JANOWITZ, Gundula; Austrian opera singer; b. 2 Aug. 1937, Berlin, Germany; d. of Theodor and Else Janowitz (née Neumann); m. Wolfgang Zörner 1965; one d.; ed. Acad. of Music and Performing Arts, Graz; Début with Vienna State Opera; has sung with Deutsche Oper, Berlin 1966, Metropolitan Opera, New York 1967, Teatro Colón, Buenos Aires 1970, Munich State Opera 1971, Grand Opera, Paris 73, Covent Garden Opera 1975, La Scala 1978; concerts in major cities throughout the world, appearances at Bayreuth, Aix-en-Provence, Glyndebourne, Spoleto, Salzburg, Munich Festivals; mem. Vienna State Opera, Deutsche Oper, Berlin; recordings with Deutsche Grammophon, EMI, Decca. *Leisure interest:* modern literature. *Address:* Rehetobelstrasse 81, 9000 St. Gallen, Switzerland.

JANZA, Vladimir, ING.; Czechoslovak politician; b. 10 April 1929, Zilina; ed. Comenius Univ. of Bratislava, State Inst. for Econ., Moscow; State Planning Office 1953-63, Sec. State Price Cttee. 1963-65; Deputy Minister-Chair. State Comm. on Finance, Prices and Wages 1965-68; Deputy Minister, Fed. Price Office 1968-71; Deputy Chair. State Planning Comm. 1971-73, Minister Vice-Chair. 1973-; Rep. for Czechoslovakia, CMEA Cttee. for Material Technological Supplies 1977-; Distinction for Merit in Construction. *Address:* c/o State Planning Commission, Prague, Czechoslovakia.

JAPAN, Emperor of (*see* Hirohito).

JARMAN, Franklin Maxey; American business executive; b. 10 Nov. 1931, Nashville, Tenn.; s. of Walton Maxey Jarman (*q.v.*) and Sarah (Anderson) Jarman; m. Nancy M. Smith 1970; ed. Montgomery Bell Acad. and Massachusetts Inst. of Tech.; joined GENESCO 1957, mem. Bd. of Govs. 1960, Advisory Bd. 1960, Bd. of Dirs. 1961, Treas. 1962, Financial Vice-Pres. 1964, Exec. Vice-Pres. mem. Finance and Exec. Cttees. 1966, Pres 1969-77, Chair. GENESCO May 1969-, Chief Exec. Officer 1973-77. *Leisure interests:* water sports, flying. *Address:* GENESCO, 111 7th Avenue, Nashville, Tenn. (Office); 601 Bowling Avenue, Nashville, Tenn. 37215, U.S.A. (Home). *Telephone:* 615-291-7748.

JARMAN, Walton Maxey; American business executive; b. 10 May 1904, Nashville, Tenn.; s. of J. Franklin and Eugenia Jarman; m. Sarah Anderson 1928; one s. (Franklin M. Jarman, q.v.) two d.; ed. Massachusetts Inst. of Tech.; Trainee, Jarman Shoe Co. 1924, Sec.-Treas. 1925-32, Pres. 1933-36; Pres. Gen. Shoe Corpn. 1936-45; Pres. GENESCO 1945-47, Chair. 1947-69, Chair. Finance Cttee. 1969-72; Dir. or Trustee, Mutual Life Insurance Co. of New York, Financial Fed. (Calif.), Nashville City Bank and Trust Co., Fed. Reserve Bank of Atlanta 1960-66; Dir. or Trustee several religious insts.; Deacon First Baptist Church, Nashville; Chair. Christian Bible Soc.; mem. Planning Cttee., Int. Congress on World Evangelization 1974-, Chair. Finance Cttee. 1974; Hon. LL.D. (Stetson Univ., Florida and Georgetown Coll., Ky.). *Publications:* A Businessman Looks at the Bible 1964, O Taste and See. *Leisure interests:* reading, travel, painting. *Address:* 111 7th Avenue North, Box 941, Nashville, Tenn. 37202 (Office); 4410 Gerald Place, Nashville, Tenn., U.S.A. (Home). *Telephone:* 615-367-6356.

JAROCKI, Jerzy; Polish theatre director; b. 11 May 1929, Warsaw; s. of Bohdan and Leokadia Jarocki; m. Eva Lassek 1962; one d.; ed. State Higher School of Acting, studies in drama production in Cracow and in U.S.S.R.; directs plays mainly by Polish writers S. Witkiewicz, W. Gombrowicz, T. Różewicz and S. Mrożek, also by Shakespeare and Chekov; productions abroad; with Old Theatre, Cracow 1962-; teacher, State Higher School of Acting 1963-; Gold Cross of Merit, Polonia Restituta, Gold Award of City of Cracow, Ministry of Culture and Arts Prize 1971, State Prize (1st and 2nd Class) and others. Has directed 73 plays including: Ślub (The Wedding) 1960, 1973, 1974, Cymbeline 1967, Moja Córeczka (My Little Daughter) 1968, Stara Kobieta Wysiaduje (Old Woman Brooding) 1969, Three Sisters 1969, 1974, Pater Noster 1971, Szewcy (The Shoemakers) 1972, On All Fours 1972, Matka (The Mother) 1966, 1974, The Trial 1973, The Cherry Orchard 1975, Rzeźnia (The Slaughterhouse) 1975, Bal Manekinów (Mannequins Ball) 1976, King Lear 1977, White Glove 1978. *Leisure interests:* philosophy, skiing. *Address:* Ul. Bytomska 14 m. 13, 30-075 Kraków, Poland.

JAROSZEK, Henryk, M.A.; Polish diplomatist; b. 1 Oct. 1926, Kajetanów Kielce district; s. of Jan and Aniela Jaroszek; m. Anna Holendzka 1950; one s.; ed. Acad. of Political Sciences, Warsaw; Ministry of Foreign Affairs, Warsaw 1947-51; Second Sec. at Embassy, London 1951-54, First Sec., New Delhi 1954-55; Counsellor, Washington, D.C. 1955-59; Amb. to Iraq. 1959-62; Dir. of Asian and Middle Eastern Affairs, Ministry of Foreign Affairs 1962-65; Amb. and Perm. Rep. to UN Office and Specialized Agencies, Geneva 1965-69; Dir. Dept. of Int. Orgs., Ministry of Foreign Affairs 1969-75; Amb., Perm. Rep. to UN 1975-, Chair. First Cttee. (Political and Security) of Gen. Assembly 1976; mem. Polish United Workers' Party (PZPR); Officer's Cross, Order of Polonia Restituta and other state distinctions. *Leisure interests:* walking, angling. *Address:* Permanent Mission of Poland to the United Nations, 9 East 66th Street, New York, N.Y. 10021, U.S.A. *Telephone:* (212) 744-2506.

JAROSZEWICZ, Piotr; Polish politician; b. 8 Oct. 1909, Nieśwież; ed. Free Univ., Warsaw; Schoolmaster before, and in U.S.S.R. during Second World War; joined Polish army in U.S.S.R. 1943; rose to rank of Col.; Deputy Commdr. in charge of political affairs, First Polish Army 1945; Vice-Minister of Defence with rank of Lieut.-Gen. 1945-50; Deputy Chair. State Comm. for Econ. Planning 1950-52; Vice-Premier 1952-70; Minister of Coal Mining 1954-56; Perm. Rep. to Council for Mutual Econ. Assistance (CMEA) 1955-70; Chair. Cttee. for Econ. Co-operation with Foreign Countries 1958-70; Pres. Council of Ministers 1970-; mem. Cen. Cttee. and Deputy mem. of Political Bureau of Polish United Workers' Party until 1970, mem. Political Bureau 1970-; Deputy to Seym 1947-; mem. Presidium of All-Polish Cttee. of Nat. Unity Front 1971-; Pres. Chief Council of Union of Fighters for Freedom and Democracy May 1972-; Chair. Council for Family Affairs, attached to Council of Ministers 1978-; Order of Builders of People's Poland, Order of Banner of Labour First Class (twice), Grunwald Cross (2nd and 3rd Classes), Virtuti Militari, Grand Cross, Order of Polonia Restituta 1974, Medal of 30th Anniversary of People's Poland 1974, Order of October Revolution (U.S.S.R.) 1974, Tadj Order, 1st Class (Iran) 1974, Grande Croix de l'Ordre de la Légion d'honneur (France) 1975, Grand Ribbon, Order of Leopold 1977, and other decorations. *Address:* Urząd Rady Ministrów PRL, Aleje Ujazdowskie 3/5, 00-583 Warsaw, Poland.

JAROUDI, Saeb, M.A.; Lebanese international official; b. 25 Nov. 1929, Beirut; m. Leila Salam 1963; one s. one d.; ed. Int. Coll. Beirut, Univ. of California at Berkeley, Columbia Univ.; Instructor in Econs. and Research Economist, American Univ. of Beirut 1953-56; Econ. Officer UN Secretariat, New York, N.Y. 1956-65, detailed from UN as Econ. Adviser to Govt. of Kuwait 1962-64; Chief Economist, Kuwait Fund for Econ. and Social Devt. 1966-69; Minister of Nat. Econ., Lebanon 1970-72; Pres. Arab Fund for Econ. and Social Devt. 1972-. *Leisure interest:* numismatics. *Address:* Arab Fund for Economic and Social Development, P.O. Box 21923, Kuwait (Office). *Telephone:* 431870, 418715 (Office).

JAROWINSKY, Werner; German economist and politician; b. 25 April 1927, Leningrad, U.S.S.R.; m.; one c.; ed. Berlin and Halle Univs.; joined Socialist Unity Party (SED) 1946, mem. Cen. Cttee. 1963, Sec. Cen. Cttee. 1963-, mem. Politburo 1963-; Section head, Ministry of Trade 1956-59, Deputy Minister 1959-61, State Sec. and First Deputy Minister of 1961-63; mem. Volkskammer 1963-; Chair. Cttee. on Trade 1971-; Vaterländischer Verdienstoren in Silver, Banner der Arbeit, and other decorations. *Address:* Am Marx-Engels-Platz 2, 102 Berlin, German Democratic Republic.

JARRATT, Alexander Anthony, C.B.; British company executive; b. 19 Jan. 1924, London; m. (Mary) Philomena Keogh 1946; one s. two d.; ed. Royal Liberty Grammar School, Essex, and Birmingham Univ.; mil. service in Fleet Air Arm; Asst. Principal, Ministry of Power 1950-53, Principal 1953-54; Treasury 1954-55; Principal Private Sec. to Minister of Fuel and Power 1955-59; Asst. Sec. in Oil Div. of Ministry 1959-63, Under-Sec. in Gas Div. 1963-64; Cabinet Office 1964-65; First Sec., Nat. Bd. for Prices and Incomes 1965-68; Deputy Under-Sec. of State, Dept. of Employment and Productivity 1968; Deputy Sec. Ministry of Agric. 1970; mem. Bds. of IPC and Reed Int. Ltd. 1970-; Man. Dir. IPC 1970-74, Chair. 1974-, also of IPC Newspapers 1974; Chair. and Chief Exec., Reed Int. Ltd. 1974-; mem. Supervisory Bd., Thyssen-Bor-

nemisza 1972; mem. Main Bd., Goodyear Tyre and Rubber Co. (U.K.) 1975-; non-exec. Dir. ICI Ltd. 1975-; Chair. Industrial Soc. Nov. 1975-, Admin. Staff Coll., Henley; Vice-Pres. Advertising Assn., Periodical Publis. Assn. Ltd.; Gov. Hutton Park Preparatory School, Ashridge Man. Coll., London Business School; mem. NEDC, Econ. Policy Cttee. of CBI, President's Cttee. CBI, Council of Man. of Henley Centre for Forecasting, Court of Cranfield Inst. of Tech. *Leisure interests:* reading, motoring, painting in oils. *Address:* c/o Reed International Ltd., Reed House, 82 Piccadilly, London, W.1, England.

JARRETT, Keith; American pianist and composer; b. 8 May 1945, Allentown, Pa.; gave first solo concert aged 7, followed by professional appearances; 2 hour solo concert of own compositions 1962; led own trio in Boston; worked with Roland Kirk, Tony Scott and others in New York; joined Art Blakely 1965; toured Europe with Charles Lloyd 1966. *Address:* 635 East 11th Street, New York City, N.Y. 10009, U.S.A.

JARRING, Gunnar, PH.D.; Swedish diplomatist; b. 12 Oct. 1907, Brunnby; m. Agnes Charlier 1932; one d.; ed. Lund Univ.; Assoc. Prof. Turkic Languages Lund Univ. 1933-40; Attaché Ankara 1940-41; Chief Section B Teheran 1941; Chargé d'affaires a.i. Teheran and Baghdad 1945, Addis Ababa 1946-48; Minister to India 1948-51, concurrently to Ceylon 1950-51, to Iran, Iraq and Pakistan 1951-52; Dir. Political Div. Ministry of Foreign Affairs 1953-56; Perm. Rep. to UN 1956-58; rep. on Security Council 1957-58; Amb. to U.S.A. 1958-64, to U.S.S.R. 1964-73, and to Mongolia 1965-73; Special Envoy of UN Sec.-Gen. on Middle East situation Nov. 1967-; Grand Cross Order of the North Star. *Publications:* Studien zu einer osttürkischen Lautlehre 1933, The Contest of the Fruits—An Eastern Turki Allegory 1936, The Uzbek Dialect of Qilich, Russian Turkestan 1937, Uzbek Texts from Afghan Turkestan 1938, The Distribution of Turki Tribes in Afghanistan 1939, Materials for the Knowledge of Eastern Turkestan (Vols.I-IV) 1947-51, An Eastern Turki-English Dialect Dictionary 1964. *Address:* Karlavaegen 85, 11459 Stockholm, Sweden.

JARUZELSKI, Gen. Wojciech; Polish army officer and politician; b. 6 July 1923, Kurów, Poland; ed. Infantry Officers' School and Karol Świerczewski Gen. Staff Acad.; served with Polish Armed Forces in U.S.S.R. and Poland 1943-45; various Sr. Army posts 1945-65; Chief of Cen. Political Dept. of the Armed Forces 1960-65; Deputy Minister of Nat. Defence 1962-68, Minister 1968-; Chief of Gen. Staff 1965-68; Brig.-Gen. 1956, Div.-Gen. 1960, Gen. of Arms 1968, Gen. of Army 1973; mem. Polish United Workers' Party Cen. Cttee. 1964-, mem. Political Bureau Dec. 1971-; Deputy to Seym 1961-; Vice-Pres. Chief Council of Union of Fighters for Freedom and Democracy 1972-; decorations include Order of Builders of People's Poland, Order of Banner of Labour (First Class), Cross of Order of Polonia Restituta, Silver Cross of Virtuti Militari and Cross of Valour, Medal of 30th Anniversary of People's Poland, Order of Red Banner (U.S.S.R.) 1978, hon. Miner of People's Repub. 1978. *Address:* Ministerstwo Obrony Narodowej, ul. Klonowa 1, 01-468 Warsaw, Poland.

JÄRVI, Osmo Henrik, M.D.; Finnish pathologist; b. 1 Jan. 1911, Helsinki; s. of Prof. Toivo Henrik Järvi and Helfrid Helena (née Soderman-Siutila); m. Dr. Enne-Maija Kinnunen 1937; one s. three d.; ed. Helsinki and Utrecht Univs. and Karolinska Inst., Stockholm; Asst. Anatomy Dept., Helsinki Univ. 1932-38; Asst., Dept. of Pathological Anatomy 1938-44; Lecturer, Microscopical Anatomy, 1940-45, Prof. of Pathological Anatomy, Turku Univ. 1944-77; Dean, Faculty of Medicine 1945-54, Rector 1954-60; Chair. Finnish Medical Research Council 1961-67; mem. Finnish Acad. of Science and Letters 1960, Finnish Medical Soc. "Duodecim", Hon. mem. Finnish Medical Soc. "Läkaresällskapet"; mem. Swedish Medical Soc., Finnish Assn. of Pathologists (Chair. 1956-62), Swedish Assn. of Pathologists, Scandinavian Assn. of Pathologists (Chair. 1958-61), Pathological Soc. of G.B. and Ireland, American Soc. of Clinical Pathologists, Int. Acad. of Pathology, New York Acad. of Sciences, Cancer Assn. of Finland (Chair. of Del. 1967-69 and 1978-, Chair. of Bd. 1969-75), Cancer Foundation of Finland (Chair. 1960-66), Fellow, Int. Acad. of Cytology, etc.; Hon. Ph.D. (Åbo Acad., Finland) 1968. *Publications:* works on secretion process and Golgi apparatus, morbid pathology of respiratory and intestinal tract, especially neoplasms, etc., exfoliated cytology; Pohdintaa (Meditations) 1967. *Leisure interest:* the fine arts. *Address:* Yliopistonkatu 2K, 20110 Turku 11, Finland. *Telephone:* 17390.

JASTROW, Robert; American physicist and writer; b. 7 Sept. 1925, New York; Asst. Prof., Yale Univ. 1953-54, Consultant nuclear physics, U.S. Naval Research Lab. 1958-62; Head Theoretical Div., Goddard Space Flight Centre, NASA 1958-61, Chair. Lunar Exploration Comm. 1959-60, Dir. Goddard Inst. Space Studies 1961-; Adjunct Prof. of Geophysics, Columbia Univ., New York 1961-, of Earth Sciences, Dartmouth Coll., Hanover, N.H. 1973-, of Geology and Astronomy, Columbia Univ. 1977-. *Publications:* Red Giants and White Dwarfs, The Origin of the Solar System 1963, The Evolution of Stars, Planets and Life 1967, Astronomy: Fundamentals and Frontiers, The Venus Atmosphere 1969, Until the Sun Dies 1977, God and the Astronomers 1978. *Address:* 2880 Broadway, New York, N.Y. 10025 (Office); 22 Riverside Drive, New York, N.Y. 10023, U.S.A. (Home).

JASTRUN, Mieczysław, PH.D.; Polish writer; b. 29 Oct. 1903, Korolówka; ed. Cracow Univ.; teacher secondary schools in Łódź 1928-39; clandestine educ. in Lwów, 1939-41, Warsaw 1941-44; sub-editor Kuznica, Łódź 1945-49; returned to Warsaw 1949; Gold Cross of Merit 1946, Order of Banner of Labour (1st Class) 1949, State Prize (1st Class) 1950, 1955, Commdr. Cross of Order of Polonia Restituta 1954, Medal of 30th Anniversary of People's Poland 1974, and other awards. *Publications:* Spotkanie w Czasie (Meeting in Time), Dzieje nieostygłe (History Still Fresh), Strumien i milczenie (The Stream and Silence), Godzina strzeżona (The Guarded Hour), Rzecz ludzka (Human Affairs), Genezy (Genesis); biographical novel Mickiewicz, Spotkanie z Salomeą (Meeting with Salomea) (on J. Słowacki), Poeta i dworzanin (Poet and Courtier) (on J. Kochanowski), Między słowem ■ milczeniem (Between Word and Silence; Essays) 1960, Więdzy słowem a milczeniem (Between Word and Silence; Essays) 1960, Większe od życia (Larger than Life; Poems) 1960, Piękna Choroba (Beautiful Illness) 1961; essays and translations from French, Russian and German poetry; Mit śródziemnomorski (Mediterranean Myth: Essays) 1962, Intonationen 1962, Strefa owoców (Zone of Fruits) 1964, Poezja i rzeczywistość (Poetry and Truth; Essays) 1966, Poezje (a selection of poems) 1966; W biały dzień (In Broad Daylight), Mickiewicz (edition XI) 1967, Poezje wybrane (a selection of poems) 1968, Godła pamięci (Signs of Memory—poems) 1969, Wolność wyboru (Freedom of Choice—essays) 1969, Starry Diamond (essays on Norwd) 1971, Eseje wybrane (selected essays) 1971, Eseje—Mit śródziemnomorski, Wolność wyboru, Historia Fausta (essays—Mediterranean Myth, Freedom of Choice, Faust Story) 1973, Walka o słowo (Fighting for a Word) 1973, Wyspa (Isle—poems) 1973, Błysk obrazu (poems) 1975, Poezje zebrane 1976, Scena obrotowa (poems) 1977, Podróż do Gregi (Voyage in Greece) 1978. *Address:* ul. Iwicka 8a m.9, Warsaw 00-735, Poland. *Telephone:* 41-2394.

JATTI, Basappa Danappa, B.A., LL.B.; Indian politician; b. 10 Sept. 1912, Savalgi, Bijapur District; ed. Bijapur Govt. High School, Rajaram Coll., Sykes Law Coll., Kolhapur; practised law at Jamkhandi; State Minister, Jamkhandi, later Chief Minister; mem. Legis. Ass., Bombay, later Mysore; Deputy Minister of Health and Labour, Bombay 1952; Chair. Land Reforms Cttee., Chief Minister, Mysore 1958-62; Minister of Finance, Mysore 1962-65, of Food, Mysore 1965-67; Lieut.-Gov. of Pondicherry 1968; Gov. of Orissa 1972-74; Vice-Pres. of India 1974-, Acting Pres. Feb.-July 1977; Chair. Rajya Sabha 1974-; LL.D. h.c. (Karnatak Univ.). *Address:* Office of the Vice-President of India, 6 Moulana Azad Road, New Delhi, India.

JAUDEL, Jean Emmanuel; French publisher; b. 6 Jan. 1910, Strasbourg; s. of Armand Jaudel and Lucie (née Brunschvig) Jaudel; m. Nicole Weill 1946; one s. one d.; ed. Faculty of Law of Paris Univ., Ecole Libre des Sciences Politiques, Ecole des Hautes Etudes Internationales, Geneva; Dir., Atlantique Française 1945-; Chair. La Revue des Deux Mondes, publrs. of La Revue des Deux Mondes (quarterly review) 1970-; Officier, Légion d'honneur, Médaille militaire, Croix de guerre, other French and foreign awards. *Leisure interest:* riding. *Address:* La Revue des Deux Mondes, 51 avenue Franklin-Roosevelt, 75008 Paris (Office); 41 avenue Foch, 75116 Paris, France (Home). *Telephone:* 359-68-36 (Home).

JAUHO, Pekka Antti Olavi; Finnish scientist; b. 27 April 1923, Oulu; s. of Antti Arvid Jauho and Sylvi (née Pajari) Jauho; m. Kyllikki Hakala 1948; one s.; ed. Univ. of Helsinki; Chief Mathematician, Insurance Co. Kansa 1951-54; Assoc. Prof., Tech. Univ. of Helsinki 1955-57 (now Helsinki Univ. of Tech.), Prof. in Tech. Physics 1957-70; Dir.-Gen. The State Inst. for Tech. Research (Tech. Research Centre of Finland since 1972) 1970-; mem. American Nuclear Soc., European Physical Soc., RILEM, Perm. Cttee., Acad. of Tech. Sciences, Finnish Acad. of Sciences, Nordisk Institut för Teoretisk Atomfysik (NORDITA) and several Finnish socs.; Hon. Prize of YDIN Power Assn. *Publications:* about 100 articles. *Leisure interest:* music. *Address:* Vuorimiehentie 5, 02150 Espoo 15 (Office); Menninkäisentie 6L, Tapiola, Finland (Home). *Telephone:* 4564100 (Office); 461437 (Home).

JAVITS, Jacob Koppel, LL.B.; American lawyer and politician; b. 18 May 1904, New York; s. of Morris Javits and Ida Littman; m.

1st Marjorie Ringling 1936; m. 2nd Marion Ann Borris 1947; one s. two d.; ed. New York Univ. Law School; Admitted to the N.Y. State Bar 1927; Asst. to the Chief of Chemical Warfare Service 1939-42; Asst. to the Chief of Operations, Chemical Warfare Service, Europe 1943, Pacific 1944; resumed law practice 1945; elected to 80th Congress from New York 1946; re-elected 1948, 1950, 1952; mem. of Cttee. on Foreign Affairs and Chair. Sub-Cttee. on Foreign Econ. Policy; Attorney-Gen. of New York 1954-57; Senator from New York 1957-; mem. Cttee. Foreign Relations and Ranking Minority, Labor and Public Welfare, Jt. Econ. Cttee., Govt. Operations Cttee., Small Business Cttee.; partner in Javits, Trubin, Sillocks, Edelman and Purcell 1958-71; U.S. Del. to UN Gen. Assembly 1970; Chair. North Atlantic Assembly Cttee. of Nine 1971-73; mem. Nat. Comm. on Marijuana and Drug Abuse 1971-73; Legion of Merit and Army Commendation Ribbon; Republican. *Publications:* A Proposal to Amend the Anti-Trust Laws 1939, A Liberal Political Philosophy for the Republican Party 1946, Discrimination, U.S.A. 1960, Order of Battle, A Republican's Call to Reason 1964, Who Makes War 1973. *Leisure interests:* tennis, squash, swimming. *Address:* 326 Russell Senate Office Building, Washington, D.C. 20510; and 110 East 45th Street, New York, N.Y. 10017, U.S.A.

JAWARA, Hon. Sir Dawda (Kairaba), Kt., M.R.C.V.S., D.T.V.M.; Gambian politician; b. 16 May 1924, Barajally; s. of Almamy and the late Mama Jawara; fmr. Principal Veterinary Officer, Gambian Civil Service; entered politics 1960; Minister of Educ. 1960-61; Premier 1962-65; Prime Minister 1965-70; Pres. of Repub. of The Gambia April 1970-; Pres. Comité Inter-Etats de Lutte contre la Sécheresse du Sahel; mem. Board, Peutinger Coll. (Fed. Repub. of Germany); Hon. G.C.M.G. 1974; decorations from Senegal, Mauritania, Lebanon, Grand Master of the Nat. Order of the Repub. of Gambia. *Address:* Office of the President, Banjul, The Gambia.

JAWORSKI, Leon, LL.M.; American lawyer; b. 19 Sept. 1905, Waco, Tex.; ed. Baylor and George Washington Univs.; Trial Judge Advocate in major Second World War mil. trials in U.S.A., later Chief of War Crimes Section of U.S. Army, Europe; Sr. Partner Fulbright and Jaworski, law firm; Special Asst., U.S. Attorney-Gen. 1962-65; Special Counsel, Attorney-Gen. of Texas 1963-65, 1972-73; Presidential Adviser 1964-69; mem. Nat. Citizens Cttee. for Community Relations, President's Comm. on Law Enforcement and Admin. of Justice 1965-67, Perm. Court of Arbitration, The Hague 1965-69; fmr. Dir., Chair. Exec. Cttee. Bank of the Southwest, Houston; Special Prosecutor, Watergate Special Prosecution Force 1973-74; in charge of Congressional investigation into alleged South Korean corruption; Chief Counsel, House Ethics Cttee.; Pres. American Bar Assn. 1971-72; Fellow American Bar Foundation; Hon. mem. Canadian Bar Assn.; Official many civic, educ. and charitable orgs.; Dr. h.c. (Baylor, Suffolk and Washburn Univs.); Legion of Merit; American Bar Assn. Medal 1975. *Publications:* After Fifteen Years 1961, The Right and the Power 1976, and many articles in law journals. *Address:* Fulbright and Jaworski, 8th Floor, Bank of Southwest Building, Houston, Texas 77002, U.S.A.

JAY, Rt. Hon. Douglas Patrick Thomas, P.C., M.P.; British journalist and politician; b. 23 March 1907, Woolwich; s. of Edward Aubrey Hastings Jay and Isobel Violet Jay; m. 1st Margaret Christian Garnett 1933 (divorced 1972), two s. (Peter Jay, *q.v.*) two d.; m. 2nd Mary Lavina Thomas 1972; ed. Winchester Coll. and New Coll. Oxford; mem. staff The Times 1929-33, Economist 1933-37; City Editor Daily Herald 1937-41; Fellow All Souls Coll. Oxford 1930-37, 1968-; Ministry of Supply 1941-43; Principal Asst. Sec. Bd. of Trade 1943; Personal Asst. to Prime Minister 1945-46; M.P. for Battersea North 1946-; Econ. Sec. to Treasury 1947-50; Financial Sec. to the Treasury 1950-51; Pres. of Bd. of Trade 1964-67; Dir. Courtaulds 1967-70, Trades Union Unit Trust 1967, Chair. London Motorway Action Group 1968-; Chair. Common Market Safeguards Campaign 1970-75; Labour. *Publications:* The Socialist Case 1937, Who is to Pay for the War and the Peace? 1941, Socialism in the New Society 1962, After the Common Market 1968. *Address:* House of Commons, London, S.W.1, England

JAY, Peter, M.A.; British economic journalist and diplomatist; b. 7 Feb. 1937; s. of Rt. Hon. Douglas Patrick Thomas Jay (*q.v.*); m. Margaret Ann, d. of Rt. Hon. James Callaghan (*q.v.*), 1961; one s. two d.; ed. Winchester Coll. and Christ Church, Oxford; Midshipman and Sub-Lieut., R.N.V.R. 1956-57; Asst. Principal, H.M. Treasury 1961-64, Private Sec. to Jt. Perm. Sec. 1964, Principal 1964-67; Econs. Editor The Times 1967-77, Assoc. Editor Times Business News 1969-77; Presenter, Weekend World, ITV 1972-77, The Jay Interview 1975-77; Amb. to U.S.A. 1977-79; Hon. D.H. (Ohio State Univ.) 1978; Political Broadcaster of Year 1973, Royal TV Soc.'s Male Personality of Year (Pye Award) 1974, Shell Int. TV Award 1974, Wincott Memorial Lecturer 1975. *Leisure interest:* sailing. *Address:* 39 Castlebar Road, London, W5 2DJ, England; and Elm Bank, Glandore, West Co. Cork, Ireland. *Telephone:* 01-998 3570 (London).

JAYAKUMAR, Shunmugam, LL.M.; Singapore diplomatist; b. 12 Aug. 1939, Singapore; m. Dr. Lalitha Rajahram 1969; two s. one d.; ed. Univ. of Singapore and Yale Univ.; Dean, Law Faculty, Univ. of Singapore 1974-, Prof. of Law; Perm. Rep. of Singapore to UN 1971-74, High Commr. to Canada 1971-74; mem. Singapore del. to UN Gen. Assemblies 1970, 1971, 1972 to Human Environment Conf., Stockholm 1972, to 3rd UN Law of Sea Conf. *Publications:* Constitutional Law Cases from Malaysia and Singapore 1971, Public International Law Cases from Malaysia and Singapore 1974, Constitutional Law (with documentary material) 1976, and articles in journals. *Address:* Faculty of Law, University of Singapore, Singapore.

JAYAWARDENA, M. D. H., DIP.ECON., BARR.-AT-LAW; Ceylonese lawyer and politician; b. 29 March 1915; ed. Trinity Coll., Kandy and Ceylon Univ. Coll., Colombo; Advocate, Colombo and Avissawella 1941; called to the Bar, Lincoln's Inn, London 1949; mem. House of Reps., Ceylon 1952-56, 1965; Parl. Sec. to Minister of Finance 1952-54; Minister of Finance 1954-56; Jt. Gen. Sec. United Nat. Party 1958-; Minister of Health 1965-70, of Plantation Industries July 1977-; fmr. Pres. Buddhist Theosophical Soc.; helped to form many cos. including Mercantile Credit Ltd., Ceylon Bulbs and Electricals Ltd. and Mahajana Credit Ltd. *Address:* Ministry of Plantation Industries, Colombo, Sri Lanka.

JAYAWARDENE, Junius Richard; Ceylonese lawyer and politician; b. 17 Sept. 1906, Colombo; s. of Justice E. W. and A. H. (Wijewardene) Jayawardene; m. Elina B. Rupesinghe 1935; one s.; ed. Royal Coll., Univ. Coll., and Law Coll., Colombo; mem. Colombo Muncipal Council 1941; mem. State Council 1943; mem. House of Reps. 1947-; Minister of Finance 1947-53; Hon. Sec. Ceylon Nat. Congress 1940-47; Hon. Treas. United Nat. Party 1947-48 and Vice-Pres. 1953; Leader of the House of Reps. and Minister of Agric. and Food 1953-56; Minister of Finance, Information, Broadcasting, Local Govt. and Housing March 1960-July 1960; Deputy Leader of Opposition July 1960-65; Minister of State, and Parl. Sec. to Minister of Defence, External Affairs and Planning 1965-70; Leader of Opposition 1970-77; Prime Minister, Minister of Defence, Planning and Econ. Affairs and of Plan Implementation 1977-78, Pres. of the Dem. Socialist Repub. of Sri Lanka, Minister of Defence and Plan Implementation Feb. 1978-, also of Aviation Sept. 1978-; Sec. United Nat. Party 1972, Leader 1973-June 1975, July 1975-; del. to numerous confs. *Publications:* Some Sermons of the Buddha, Buddhist Essays, In Council (speeches), Buddhism and Marxism, Selected Speeches. *Address:* President's House, Colombo; 66 Ward Place, Colombo 7, Sri Lanka (Home). *Telephone:* Colombo 95028 and 92332.

JAYAWICKREMA, Major Montague; Ceylonese politician; ed. Richmond Coll., Galle; commissioned in Ceylon Light Infantry 1934, rose to rank of Maj., commanded Colombo Airport Defences during Second World War; M.P. 1948-56, 1960-; fmr. Parl. Sec. to Minister of Labour and to Minister of Defence and External Affairs; fmr. Minister of Transport and Works; Minister of Public Works, Posts and Telecommunications 1965-70; Leader of numerous dels. to Geneva and Rome. *Leisure interests:* polo, tennis, golf. *Address:* House of Representatives, Colombo, Sri Lanka.

JEAN BENOÎT GUILLAUME MARIE ROBERT LOUIS ANTOINE ADOLPHE MARC D'AVIANO, H.R.H. Grand Duke of Luxembourg, Prince of Nassau, Prince of Bourbon-Parma; b. 5 Jan. 1921, Colmar Berg; m. Princess Josephine-Charlotte of Belgium April 1953; three s. two d.; Lieut.-Rep. of Grand Duchess 1961-64; became Grand Duke of Luxembourg on abdication of Grand Duchess Charlotte Nov. 1964. *Leisure interests:* photography and natural history. *Address:* Grand Ducal Palace, Luxembourg.

JEANMAIRE, Renée Marcelle (Zizi); French actress, dancer and singer; b. 29 April 1924; m. Roland Petit (*q.v.*) 1954; student, Paris Opera Ballet 1933-40, Dancer 1940-44; with Ballets de Monte-Carlo, Ballets Colonel de Basil, Ballets Roland Petit; Dir. (with Roland Petit) Casino de Paris 1969-; Chevalier des Arts et des Lettres; leading roles in Aubade, Piccoli, Carmen, La Croqueuse de Diamants, Rose des Vents, Cyrano de Bergerac, La Dame dans la Lune, La Symphonie Fantastique 1975; films: Hans Christian Andersen, Anything Goes, Folies Bergères, Charmants Garçons, Black Tights, la Revue, Zizi je t'aime; musical: The Girl in Pink Tights (Broadway); music hall appearances. *Address:* 69 rue de Lille, 75007 Paris, France.

JEANNENEY, Jean-Marcel, L. ÈS L., D. EN D.; French economist and politician; b. 13 Nov. 1910, Paris; s. of Jules Jeanneney (fmr.

Pres. of the Senate and Minister); m. Marie-Laure Monod 1936; seven c.; ed. Ecole Libre des Sciences Politiques, Paris; Prof. of Political Economy, Grenoble Univ. 1937-51, Dean of Law Faculty 1947-51; Prof. of Social Econs. Paris Univ. 1951-56, of Financial Econs. 1957-59; Dir. du Cabinet of his father, Jules Jeanneney, Minister of State, de Gaulle Provisional Govt. 1944-45; mem. Admin. Council, Ecole Nat. d'Admin. 1945-58; Dir. Econ. Activity Study Service, Fondation Nat. des Sciences Politiques 1952-58; Consultant to OEEC 1953; mem. Rueff Cttee. 1958; Rapporteur and del. to numerous Confs.; Minister of Industry, Debré Cabinet 1959-62; Amb. to Repub. of Algeria 1962-63; Chair. French Cttee. on Co-operation with Developing Countries 1963; mem. and French Rep. to UN Econ. and Social Council 1964-66; Prof. Political Econ., Paris Univ. 1963; Minister of Social Affairs 1966-May 1968; Deputy June 1968; Minister of State 1968-69, Prof. Political Econ., Paris Univ. 1970-. *Publications:* Essai sur les mouvements des prix en France depuis la stabilisation monétaire (1927-1935) 1936, Economie et droit de l'électricité (with C. A. Colliard) 1950, Les commerces de détail en Europe occidentale 1954, Forces et faiblesses de l'économie française 1945-1956 1956, Textes de droit économique et social français 1789-1957 (with Perrot), Tableaux statistiques relatifs à l'économie française et l'économie mondiale 1957, Documents économiques (2 Vols.) 1958, Economie politique 1959, Essai de comptabilité interrégionale française pour 1954, 1969, Régions et sénat 1969, A mes amis gaullistes 1973; seven published courses of lectures on political, social and financial economy 1952-58. *Address:* 102 rue d'Assas, 75006 Paris and Rioz 70190, France (Homes). *Telephone:* 326-39-46 (Paris) and 84-74-22-68 (Rioz).

JEELOF, Gerrit; Netherlands business exective; b. 13 May 1927, Leeuwarden; m. Jantje Aleida Plinsinga 1915; two d.; ed. Dutch Training Inst. for Foreign Trade, Nijenrode; Philips Industries, Eindhoven, Netherlands 1950-53, Spain and S. America 1953-65, Eindhoven 1965-70, Varese, Italy 1970-76, Chair. and Man. Dir. U.K. 1976-; Commendatore del Ordine al Merito della Repubblica Italiana 1974. *Leisure interests:* sailing, golf. *Address:* Philips Industries, Arundel Great Court, 8 Arundel Street, London, WC2R 3DT, England. *Telephone:* 01-836 4360.

JEFFREYS, Sir Harold, Kt., M.A., D.SC., F.R.S.; British astronomer; b. 22 April 1891, County Durham; s. of R. H. Jeffreys; m. Bertha Swirles 1940; ed. Rutherford Coll., Newcastle, Armstrong Coll., Newcastle, and St. John's Coll., Cambridge; Lecturer in Mathematics, Cambridge Univ. 1923-31, Reader in Geophysics 1931-46, Prof. of Astronomy 1946-58; Pres. Royal Astronomical Society 1955-57; Pres. Int. Seismological Asscn. 1957-60; Fellow St. John's Coll. Cambridge 1914-; Copley and Royal Medals of the Royal Soc., Gold Medal, Royal Astronomical Soc., Vetlesen Prize 1962, Guy Medal, Royal Statistical Soc., Wollaston and Murchison Medals, Geological Soc., Medal of Seismological Soc. of America 1979. *Publications:* The Earth, Method of Mathematical Physics (with Lady Jeffreys), Scientific Inference, Theory of Probability, Asymptotic Approximations, Collected Papers. *Leisure interests:* botany, music. *Address:* 160 Huntingdon Road, Cambridge CB3 0LB, England. *Telephone:* Cambridge (0223) 56153.

JELLICOE, 2nd Earl, (cr. 1925); **George Patrick John Rushworth Jellicoe,** P.C., D.S.O., M.C.; British diplomatist, politician and businessman; b. 4 April 1918; s. of 1st Earl Jellicoe (Admiral of the Fleet); m. 1st Patricia O'Kane 1944; m. 2nd Philippa Ann Bridge 1966; three s. four d.; ed. Winchester and Trinity Coll., Cambridge; Mil. Service 1939-45; joined Foreign Office 1947; First Sec. Washington, Brussels, Baghdad; Deputy Sec.-Gen. Baghdad Pact; Lord-in-Waiting 1961; Jt. Parl. Sec., Ministry of Housing and Local Govt. 1961-62; Minister of State, Home Office 1962-63; First Lord of Admiralty 1963-64; Minister of Defence for the Royal Navy 1964; Deputy Leader of the Opposition, House of Lords 1967-70; Lord Privy Seal and Leader of House of Lords 1970-73; mem. Board S. G. Warburg 1966-70, 1973-; Dir. Smiths Industries, Tate & Lyle (Chair. 1978-), Morgan Crucible, Sotheby's (Holdings); Croix de guerre, Légion d'honneur, Greek Mil. Cross. *Leisure interests:* skiing and travel. *Address:* Tidcombe Manor, Tidcombe, Nr. Marlborough, Wilts., and 97 Onslow Square, London, S.W.7, England. *Telephone:* 01-584 1551 (London).

JEN CHUNG-YI; Chinese government official; b. Hopei Province; Mem. Lushan-Dairen Dist. People's Govt. 1951-; Sec. Lushan-Dairen Municipal Work Cttee, New Democratic Youth League 1951; Deputy for Harbin to INPC; Second Sec. CCP Harbi Muncipal Cttee. 1955-56; Sec. CCP Heilungkiang Prov. Cttee. 1957; First Sec. CCP Harbin Muncipal Cttee. 1957-67; Deputy for Heilungkiang 2nd NPC 1958; Chair. Harbin Muncipal Cttee CPPCC 1957; mem. Standing Cttee. CCP Heilungkiang Prov. Cttee. 1959; alt. Sec. CCP Heilungkiang Prov. Cttee. 1960; Political Commissar Harbin Militia 1960; Sec. CCP Heilungkiang Prov. Cttee. 1961-67; First Sec. Liaoning Prov. CCP Cttee. 1978-; Chair. Liaoning Revolutionary Cttee. 1978-. *Address:* People's Republic of China.

JEN JUNG; Chinese party official; mem. Chinese People's Volunteers Korean Truce Comm., N. Korea 1960; Deputy Political Commissar Tibet Mil. Region, People's Liberation Army 1965, First Political Commissar 1971-; Vice-Chair. Tibet Revolutionary Cottee. 1968, Chair. 1971-; First Sec. CCP Tibet 1971-; Alt. mem. 10th Cen. Cttee. of CCP 1973, mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

JENCKS, William Platt, M.D.; American biochemist; b. 15 Aug. 1927, Bar Harbor, Me.; s. of Gardner Jencks and Elinor Melcher Cheetham; m. Miriam Ehrlich Jencks 1950; one s. one d.; ed. Harvard Coll. and Harvard Medical School; Intern, Peter Bent Brigham Hosp., Boston, Mass. 1951-52; mem. staff, Dept. of Pharmacology, Army Medical Service Graduate School 1953-54, Chief, Dept. of Pharmacology 1954-55; Life Insurance Medical Research Fund Postdoctoral Fellow, Mass. Gen. Hosp. 1955-56; U.S. Public Health Service Postdoctoral Fellow, Dept. of Chem., Harvard 1956-57; Asst. Prof. of Biochem., Brandeis Univ. 1957-60, Assoc. Prof. of Biochem. 1960-63, Prof. of Biochem. 1963-; Fellow A.A.A.S., American Acad. of Arts and Sciences; Guggenheim Memorial Foundation Fellow 1973-74; mem. Nat. Acad. of Sciences, American Soc. Biological Chemists; American Chem. Soc. Award in Biological Chem. 1962. *Publications:* Catalysis in Chemistry and Enzymology 1969 and over 200 articles in journals. *Leisure interest:* music. *Address:* Brandeis University, Graduate Department of Biochemistry, Waltham, Mass. 02154 (Office); 11 Revere Street, Lexington, Mass. 02173, U.S.A. (Home). *Telephone:* 617-647-2726 (Office); 617-862-8875 (Home).

• **JENKIN, Rt. Hon. (Charles) Patrick Fleeming,** P.C.; British politician; b. 7 Sept. 1926, Edinburgh; s. of late C. O. F. Jenkin and Margaret E. Jenkin (née Sillar); m. Alison Monica Graham 1952; two s. two d.; ed. Clifton Coll., Bristol, Jesus Coll., Cambridge; called to the Bar, Middle Temple 1952; Adviser Distillers Co. Ltd. 1957-70; Hornsey Borough Council 1960-63; M.P. for Wanstead and Woodford 1964-; Opposition Spokesman on Finance, Econs. and Trade 1965-66, 1967-70; Financial Sec. to Treasury 1970-72, Chief Sec. 1972-74; Minister for Energy Jan.-March 1974; mem. Shadow Cabinet 1974-79; Opposition Spokesman on Energy 1974-76, on Social Services 1976-79; Sec. of State for Social Services May 1979-; Non-Exec. Dir. Tilbury Contracting Group Ltd. 1974-79, Royal Worcs. Co. Ltd. 1975-79; Dir. Continental and Industrial Trust Ltd. 1975-79; Conservative. *Leisure interests:* music, gardening, sailing. *Address:* House of Commons, London, S.W.1; 9 Hurst Avenue, Highgate, London, N.6, England (Home). *Telephone:* 01-340 5538 (Home).

JENKINS, Alfred le Sesne, A.B., M.ED.; American retd. foreign service officer; b. 14 Sept. 1916, Manchester, Ga.; s. of Charles Rush Jenkins and Beulah Hall; m. Martha Elisabeth Lippiatt 1945; one s. one d.; ed. Savannah High School, Emory Univ., Duke Univ., Univ. of Chicago; supt. of schools, Naylor, Ga. 1940-41; U.S. Army Mil. Intelligence, Pentagon 1st Lieut. 1941-45; entered Foreign Service 1946, served in Peking, Tientsin, Hong Kong, Taipei; Officer in Charge, Chinese Political Affairs, Dept. State 1952-55; Deputy Chief of Mission, Jidda 1955-57; Nat. War Coll. 1958; Deputy Dir. S.E. Asian Affairs 1959; Far East Planning Adviser 1959-61; Deputy Chief of Mission, Stockholm 1961-65; Sr. Insp. 1966; Sr. Staff Nat. Security Council 1966-69; Dir. Office Asian Communist Affairs 1970-73; Deputy Chief U.S. Liaison Office, Peking 1973-76; Lecturer, Freelance writer 1974-; mem. Bd. of Dirs. WJS, Washington D.C.; Chair. Bd. of Trustees, Maharishi Int. Univ.; LL.D. (Emory Univ.) 1973; Superior Honour Award, Dept. of State 1972. *Leisure interests:* music, philosophy, mountain house. *Address:* Stalsama High Knob, P.O. Box 586, Front Royal, Va. 22630, U.S.A. (Home).

JENKINS, (David) Clive; British trade unionist; b. 2 May 1926; ed. Port Talbot Central Boys' School, Port Talbot County School and Swansea Tech. Coll.; employed in metallurgical test house 1940; mem. Port Talbot Co-operative Soc. Educ. Cttee. 1945; Branch Sec. and Area Treas., Asscn. of Scientific Workers 1946; Asst. Midlands Div. Officer, Asscn. of Supervisory Staffs, Execs. and Technicians (ASSET) 1947, Transport Industrial Officer 1949, Nat. Officer 1954, Gen. Sec. ASSET 1961-68; Jt. Gen. Sec. Asscn. of Scientific, Tech. and Man. Staffs 1968-70, Gen. Sec. 1970-; Metropolitan Borough Councillor 1954-60; Chair. Nat. Jt. Council for Civil Air Transport 1967-68; Editor Trade Union Affairs 1961-63; mem. Gen. Council of Trades Union Congress 1974-; mem. Nat. Research Devt. Corpn. 1974-; mem. Cttee. of Enquiry on Industrial Democracy 1976; mem. Cttee. to Review the Functioning of Financial Insts. 1977; mem. TUC Econ. Cttee. 1978-; mem. Bd. of BNOC 1979-. *Publications:* Power at the Top 1959, Power Behind the

Screen 1961, British Trade Unions Today (with J. E. Mortimer) 1965, The Kind of Laws the Unions Ought to Want (with J. E. Mortimer) 1968, Computers and the Unions (with Barrie Sherman) 1977, Collective Bargaining (with Barrie Sherman) 1977, The Collapse of Work (with Barrie Sherman) 1979, The Rise of the White Collar Unions—A Rebellious Salariat (with Barrie Sherman) 1979, Doomwatch, Birmingham 1978 (with Lawrence McGinty) 1979; pamphlets and essays. *Address:* 10/26A Jamestown Road, Camden Town, London, NW1 7DT, England (Office). *Telephone:* 01-267 4422.

JENKINS, Elizabeth; British writer; ed. Newnham Coll. Cambridge. *Publications:* Lady Caroline Lamb: a Biography 1932, Portrait of a Actor 1933, Harriet (Femina Vie Heureuse Prize) 1934, The Phoenix Nest 1936, Jane Austen—a Biography 1938, Robert and Helen 1944, Young Enthusiasts 1946, Henry Fielding, English Novelists Series 1947, Six Criminal Women 1949, The Tortoise and the Hare 1954, Ten Fascinating Women 1955, Elizabeth the Great 1958, Elizabeth and Leicester 1961, Brightness 1963, Honey 1968, Dr. Gully 1972, The Mystery of King Arthur 1975. *Address:* 8 Downshire Hill, London, N.W.3, England.

JENKINS, Hugh Gater; British politician; b. 27 July 1908, Enfield; s. of Joseph and Florence Jenkins; m. Marie Crosbie 1936; ed. Enfield Grammar School; Prudential Assurance Co. 1930-40; wartime service in Royal Observer Corps and R.A.F.; Dir. English Programmes, Rangoon Radio; Greater London Organizer, Nat. Union of Bank Employees, later research and publicity officer, Editor The Bank Officer; Asst. Sec. British Actors' Equity Assn. 1950, Asst. Gen. Sec. 1957-64; M.P. for Putney 1964-79; Opposition Spokesman on the Arts 1973-74, Parl. Under-Sec. of State, Dept. of Educ. and Science, Minister responsible for the Arts 1974-76; fmr. Chair. Theatres Advisory Council, Standing Advisory Cttee. on Local Authorities and the Theatre; mem. Arts Council 1968-71, Drama Panel 1972-74, mem. Bd. Nat. Theatre; Deputy Chair. Theatres Trust. *Publications:* The Culture Gap 1979; articles and broadcasts on politics, the arts, government and socialism. *Leisure interests:* reading, writing, talking, walking, viewing, listening and occasionally thinking. *Address:* 75 Kenilworth Court, Lower Richmond Road, Putney, London, S.W.15., England.

JENKINS, Rt. Hon. Roy Harris, P.C.; British politician and writer and President of the European Commission; b. 11 Nov. 1920; s. of Arthur Jenkins, M.P.; m. Jennifer Morris 1945; two s. one d.; ed. Abersychan Grammar School and Balliol Coll., Oxford; Royal Artillery 1942-46; mem. Staff of Industrial and Commercial Finance Corpn. 1946-48; M.P. (Labour) for Cen. Southwark, London 1948-50, for Stechford, Birmingham 1950-77; Parl. Private Sec. to Sec. of State for Commonwealth Relations 1949-50; Gov. British Film Inst. 1955-58; mem. Cttee. of Man., Soc. of Authors 1956-60; Chair. Fabian Soc. 1957-58; Council, Britain in Europe; Deputy Chair. Common Market Campaign; Dir. of Financial Operations, John Lewis Partnership Ltd. 1962-64; Minister of Aviation 1964-65; Sec. of State for Home Dept. 1965-67, 1974-76; Chancellor of the Exchequer 1967-70; Deputy Leader of Labour Party 1970-72; Pres. Comm. of the European Communities Jan. 1977-; Trustee, Theatres Trust 1977-; Hon. Foreign mem. American Acad. of Arts and Science 1973; Hon. Fellow Berkeley Coll., Yale; Hon. LL.D. (Leeds) 1971, (Harvard) 1972, (Pennsylvania) 1973, (Dundee) 1973, (Bath) 1978, Hon. D.Litt. (Glasgow) 1972, (City University, London) 1976, Hon. D.C.L. (Oxford) 1973, Hon. D.Sc. (Warwick) 1978, (Univ. of Aston in Birmingham) 1977, Hon. Doctor of Univ. of Keele 1977; Dr. h.c. (Open Univ.) 1979; Charlemagne Prize 1972, Robert Schumann Prize 1972. *Publications:* Purpose and Policy (Editor) 1947, Mr. Attlee: An Interim Biography 1948, New Fabian Essays (contributor) 1952, Pursuit of Progress 1953, Mr. Balfour's Poodle 1954, Sir Charles Dilke: A Victorian Tragedy 1958, The Labour Case 1959, Asquith 1964, Essays and Speeches 1967, Afternoon on the Potomac? 1972, What Matters Now 1973, Nine Men of Power 1974. *Address:* Commission of the European Communities, 200 rue de la Loi, 1049 Brussels, Belgium.

JENKINS, Simon David, B.A.; British journalist; b. 10 June 1943, Birmingham; s. of Daniel Jenkins; m. Gayle Hunnicutt 1978; ed. Mill Hill School, St. John's Coll., Oxford; worked for Country Life Magazine 1965; News Editor Times Educ. Supplement 1966-68; Leader-Writer, Columnist, Features Editor Evening Standard 1968-74; Insight Editor, Sunday Times 1974-76; Deputy Editor Evening Standard 1976-77, Editor 1977-78; Political Editor The Economist 1979-. *Publications:* A City at Risk 1971, Landlords to London 1974. *Leisure interests:* architecture, history of London. *Address:* 174 Regents Park Road, London, N.W.1, England (Home).

JENKINS, William Maxwell, A.B., M.B.A.; American banker; b. 19 April 1919, Sultan, Washington; s. of Warren Maxwell Jenkins and Louise Black Jenkins; m. Elisabeth Taber 1946 (divorced 1976); three s. four d.; ed. Everett High School, Univ. of Washington and Harvard Graduate School of Business Admin.; Asst. cashier, Asst. Vice-Pres., Asst. Man. of Metropolitan Branch (Seattle), Seattle-First Nat. Bank 1945-53; First Nat. Bank of Everett 1953-61, Pres. 1957-61; Chair. Everett Trust and Savings Bank 1956-61; Chair. and Chief Exec. Officer Seattle-First Nat. Bank 1962-; Chair. and Chief Exec. Officer, Seafirst Corpn. 1974-; Dir. other cos. *Leisure interests:* tennis, skiing and boating. *Address:* Seattle-First National Bank, Box 3586, Seattle, Wash. 98124, U.S.A. *Telephone:* 583-3183 (Office).

JENKS, Downing Bland; American railroad executive; b. 16 Aug. 1915, Portland, Oregon; s. of Charles and Della Downing Jenks; m. Louise Sweeney 1940; s. d.; ed. St. Paul Acad. and Yale Univ.; Asst. on Engineer Corps., Pennsylvania Railroad 1937-38; Trainmaster, Div. Engineer, Roadmaster, Great Northern Railway 1938-47, Div. Supt. 1947; Vice-Pres. and Gen. Man., Chicago & Eastern Ill. Railroad 1948; Asst. Vice-Pres. Rock Island Lines 1950, Vice-Pres. operation 1951, Exec. Vice-Pres. 1953, Pres. 1956-60; Pres. Missouri Pacific Railroad Co. 1961-72, Chair., Chief Exec. Officer 1972-74, Chair. of Bd. 1974-; Chief Exec. Officer, Missouri Pacific Corpn. 1971-, Pres. 1971-74, Chair. 1974-; Dir. First Nat. Bank in St. Louis, Bankers Life Co., River Cement Co., Mississippi River Transmission Corpn.; Pres. Boy Scouts of America; U.S. Army service, North Africa, Italy, France, Germany, Lieut.-Col. Mil. Railway Service 1942-45; Bronze Star Medal. *Leisure interests:* hunting and fishing. *Address:* Missouri Pacific Building, St. Louis, Mo. 63103 (Office); 8 Greenbriar, St. Louis, Mo. 63124, U.S.A. (Home).

JENNINGS, Elizabeth, B.A.; British poet and critic; b. 18 July 1926, Boston, Lincs.; d. of Dr. H. C. Jennings; ed. Oxford High School, St. Anne's Coll., Oxford; Asst. at Oxford City Library 1950-58; Reader for Chatto & Windus Ltd. 1958-60; freelance writer 1960-; Arts Council Prize for Poems, 1953, Somerset Maugham Award for A Way of Looking 1956, Richard Hillary Prize for The Mind has Mountains 1966. *Publications:* Poetry: Poems 1953, A Way of Looking 1955, A Sense of the World 1958, a translation of Michelangelo's Sonnets 1961, Song for a Birth or Death 1961, Recoveries 1963, The Mind has Mountains 1966, The Secret Brother (for children) 1966, Collected Poems 1967, The Animals' Arrival 1969, Lucidities 1971, Relationships 1972, Growing Points 1975, Consequently I Rejoice 1977, After the Ark (for children) 1978; Criticism: Every Changing Shape 1961, Seven Men of Vision 1976; also writings include contributions to New Yorker, Southern Review, Poetry (Chicago), Botteghe Oscure, Daily Telegraph, Encounter, New Statesman, Observer, Scotsman, Country Life, Listener and others. *Leisure interests:* theatre, music, looking at pictures, conversation. *Address:* c/o David Higham Associates Ltd., 5-8 Lower John Street, London, W1R 4HA, England.

JENNY, Mgr. Henri Martin; French ecclesiastic; b. 11 July 1904, Tourcoing; s. of Henri Jenny and Marthe Clevenot; ed. Grand séminaire de Cambrai and Pontificia Universitas Gregoriana, Rome; Prof. of Holy Scripture, Grand Séminaire, Cambrai 1929-49; Leading Curate, Saint-Géry Cambrai 1950-53; Arch-Priest Douai 1953-59; Auxiliary Bishop of Cambrai 1959-65, Co-adjutor Bishop 1965-66, Archbishop of Cambrai 1966-; mem. Preparatory Comm. and mem. Comm. on Liturgy, Ecumenical Council; Chevalier, Légion d'honneur. *Publications:* Les dimanches de l'année chrétienne, Le mystère pascal dans l'année liturgique, La messe, Les actes des apôtres. *Address:* Office of the Archbishop, B.P. 134, Cambrai 59403; and 30 rue de Noyon, Cambrai 59403, France. *Telephone:* 81-34-96.

JENS, Walter, D.PHIL.; German philologist, critic and novelist; b. 8 March 1923, Hamburg; s. of Walter and Anna (Martens) Jens; m. Inge Puttfarcken 1951; two s.; ed. Hamburg and Freiburg im Breisgau Univs.; Asst. Hamburg and Tübingen Univs. 1946-50; Docent, Tübingen Univ. 1950-56, Prof. of Classical Philology and Rhetoric 1956-67, Dir. of Inst. für Allgemeine Rhetorik, Tübingen Univ. 1967-; mem. German PEN, Berliner Akademie der Künste, Deutsche Akademie für Sprache und Dichtung; D.Phil., h.c.; Lessingpreis der Hansestadt Hamburg 1968, TV Prize, Trade Union of G Employees 1976. *Publications:* Nein—Die Welt der Angeklagten (novel) 1950, Der Blinde (novel) 1951, Vergessene Gesichter (novel) 1952, Der Mann, der nicht alt werden wolte (novel) 1955, Die Stichomythie in der frühen griechischen Tragödie 1955, Hofmannsthal und die Griechen 1955, Das Testament des Odysseus (novel) 1957, Statt einer Literaturgeschichte (Essays on Modern Literature) 1957, Moderne Literatur—moderne Wirklichkeit (essay) 1958, Die Götter sind sterblich (Diary of Journey to Greece) 1959, Deutsche Literatur der Gegenwart 1961, Zueignungen 1962, Herr Meister (Dialogue Novel) 1963, Euripides-

Büchner 1964, Von deutscher Rede 1969, Die Verschwörung (TV play) 1970, Am Anfang der Stall, am Ende der Galgen 1973, Fernsehen-Themen und Tabus 1973, Der tödliche Schlag (TV play) 1974, Der Prozess Judas (novel) 1975, Der Ausbruch (libretto) 1975, Republikanische Reden 1976. *Address:* Sonnenstrasse 5, 74 Tübingen, Federal Republic of Germany.

JENSEN, Arthur Robert, PH.D.; American educational psychologist; b. 24 Aug. 1923, San Diego; s. of Arthur Alfred Jensen and Linda Schachtmayer; m. Barbara Jane Delarme 1960; one d.; ed. Calif. (Berkeley), Columbia and London Univs.; Asst. in Medical Psychology, Univ. of Maryland 1955-56; Research Fellow, Inst. of Psychiatry, London Univ. 1956-58; Asst. Prof. to Prof. of Educ. Psychology, Univ. of Calif., Berkeley 1958-; Research Psychologist, Inst. of Human Learning 1962-; Guggenheim Fellow 1964-65; Fellow, Center for Advanced Study in the Behavioral Sciences 1966-67. *Publications:* Genetics and Education 1972, Educability and Group Differences 1973, Educational Differences 1973, Bias in Mental Testing 1979. *Address:* Institute of Human Learning, University of California, Berkeley, Calif. 94720 (Office); 30 Canyon View Drive, Orinda, Calif. 94563, U.S.A. (Home). *Telephone:* (415) 642-3909 (Office).

JENSEN, Egon; Danish politician; b. 14 March 1922, Slagelse; s. of Albert Jensen and Carla Larsen; m. Henny Jorgensen 1946; two s.; mem. Slagelse City Council 1950-71, Deputy Mayor 1966-70, Deputy Mayor of County Council 1970-71; M.P. 1960-; Minister of the Interior 1971-73, 1975-78, Minister of Ecclesiastical Affairs 1978-; Social Democrat. *Address:* Vestre Ringgade 53, 4200 Slagelse, DK-Denmark. *Telephone:* 03-52-2184.

JENSEN, Erling, LL.B.; Danish politician; b. 1 Nov. 1919, Frederiksberg; s. of Franciskus and Mary Jensen; m. Ria Jorgensen 1951; two s.; Clerk, later Man. Clerk, Credit Assn. of Estate Owners 1946-57; Sec.-Gen. Union of Urban Co-operative Socs. 1957-60; Dir. of Labour, Folk High Schools 1960-71; Minister of Trade 1971-73, 1975-76; mem. Folketing 1973-; Minister of Labour 1976-77, of Justice 1977-78, of Social Affairs 1978-; Social Democrat. *Address:* Nørrevej 11, DK 3070 Snekkersten, Denmark. *Telephone:* 03-221655.

JENSEN, Kai Arne, DR. PHIL.; Danish chemist; b. 27 March 1908, Copenhagen; m. Ida Reichardt 1932; three d.; ed. Københavns Universitet; Chemical Lab., Univ. of Copenhagen 1933-; Assoc. Prof. of Chemistry 1943-50, Prof. 1950-78, Head of Chemical Lab. II 1950-78; Chair. Comm. on Nomenclature of Inorganic Chem. of Int. Union of Pure and Applied Chem. (IUPAC) 1959-72; mem. Royal Danish Acad. of Sciences and Letters, Danish Acad. of Tech. Sciences, Royal Physiographical Soc. (Lund, Sweden); Kt. Order of Dannebrog; Julius Thomsen Gold Medal, H. C. Ørsted Gold Medal. *Leisure interest:* recreational reading. *Address:* Bøgehøj 64, 2900 Hellerup, Denmark (Home). *Telephone:* (01) 67-93-75.

JENTSCHKE, Willibald Karl, PH.D.; Austrian physicist; b. 6 Dec. 1911, Vienna; m.; three c.; ed. Univ. of Vienna; Docent, Univ. of Vienna 1942; Research Asst. Prof., Univ. of Illinois 1948, Assoc. Prof. 1955, Prof. 1956; Prof. Univ. of Hamburg 1956-70, 1976-; mem. Arbeitskreis Physik (Advisory Cttee. to German Nuclear Energy Comm.) 1957; Dir. DESY Lab., Hamburg 1959-70; del. of Fed. Repub. of Germany to CERN Council and mem. Scientific Policy Cttee. 1964-67; Dir.-Gen. CERN 1971-75; mem. Akad. der Wissenschaft und der Literatur, Mainz, Österreichische Akad. der Wissenschaft, Deutsches Physikalische Gesellschaft, Soc. Italiana di Fisica; Fellow, American Physical Soc., European Physical Soc. *Address:* Institut für Experimental Physik, Universität Hamburg, Luruper Chaussee 149, 2 Hamburg 50, Federal Republic of Germany.

JEPSEN, Roger W., M.A.; American politician; b. 23 Dec. 1928, Cedar Falls, Ia.; s. of Ernest E. and Esther Jepsen; m. Dee Ann Delaney; three s. three d. ed. Arizona State Univ.; Senator for Iowa 1966-68 and 1979-; Lieut. Gov. 1968-72, Chair. Nat. Lieut. Governors' Conf. 1970-72. *Address:* 2330 Harrison Street, Davenport, Ia. 52809, U.S.A.

JEPSON, Selwyn; British novelist and screen writer; b. 1899; ed. St. Paul's School, the Sorbonne, Paris; Served First and Second World Wars (Major; Mil. Intelligence and S.O.E.). *Publications:* Novels: The Qualified Adventurer 1921, The King's Red-Haired Girl 1923, Rogues and Diamonds 1925, The Death Gong 1928, I Met Murder 1930, Rabbit's Paw 1932, Heads or Tails (with Michael Joseph) 1933, Keep Murder Quiet 1940, Man Running 1948, The Golden Dart 1949, The Hungry Spider 1950, Man Dead 1951, The Black Italian 1954, The Assassin 1956, Noise in the Night 1957, The Laughing Fish 1960, Fear in the Wind 1963, The Third Possibility 1965, The Angry Millionaire 1969, Letter to a Dead Girl 1971, The Interrogators 1978. *Play:* Dark Horizon (with Lesley Storm); screen plays: Going Gay, For the Love of You 1932, Irresistible Marmaduke, Monday at Ten 1933, The Love Nest, The Riverside Murders 1934, White Lilac, Hyde Park Corner 1935, The Scarab Murder, Toilers of the Sea (adapted and directed) 1936, Sailing Along 1937, Carnet de Bal, Double Crime on the Maginot Line 1938, Stage Fright (Man Running) 1950; television plays incl.: Thought to Kill, Dialogue for Two Faces 1953, Face of the Law, The Last Moment 1954, The Interloper 1955; radio plays: The Hungry Spider, The Bath that Sang 1958, Noise in the Night 1959, Small Brother, Uncle Murderer, Art for Art's Sake, Death of a Guardian 1960, Greymail 1962, Dark Corners 1963. *Leisure interests:* building, music, painting. *Address:* The Far House, Liss, Hants, England.

JEROME, James Alexander, B.A.; Canadian politician; b. 4 March 1933, Kingston, Ont.; s. of Joseph Leonard Jerome and Phyllis Devlin; m. Barry Karen Hodgins 1958; three s. one d.; ed. St. Michael's Coll., Univ. of Toronto and Osgoode Hall; Lawyer; Alderman, Sudbury 1966-67; M.P. 1968-; Parl. Sec. to Pres. of Privy Council; Speaker House of Commons 1974-; Liberal. *Address:* c/o House of Commons, Ottawa, Ont., Canada.

JERUSALEM, Patriarch of (*see* Benedictos).

JESPERSEN, Kaj Thomas, M.D.: Danish physician; b. 6 April 1898, Copenhagen; s. of Jens Peter Jespersen; m. Ingrid Mørch 1924; two d.; ed. Københavns Universitet; Asst. Supt., Mil. Hosp., Copenhagen 1931; Chief Physician, Rigshospitalet, Copenhagen 1939-65; Vice-Chair. Soc. of Danish Physicians 1938-43; mem. Cen. Cttee. Danish Medical Assn. 1950-54, Vice-Chair. 1952-54; Danish Del. European League against Rheumatism 1947-57; Chair. Danish Org. of Physicians of Physical Medicine 1938-48, Danish Soc. for Investigation of Rheumatic Diseases 1951-53; Hon. mem. Danish Org. of Physicians of Physical Medicine 1963; Knight Order of Dannebrog (First Degree), First prize of honour, Dansk Fysiurgisk Selskab 1973. *Publications:* Forholdet mellem Febris rheumatica og rheumatoid artritis 1940 and several articles on rheumatic diseases. *Leisure interests:* travelling and gardening. *Address:* Hellebopark 35, 3000 Helsigør, Denmark. *Telephone:* 03-101036.

JESSEN, Borge, DR. PHIL.: Danish mathematician; b. 19 June 1907, Copenhagen; m. Ellen Pedersen 1931; ed. Univ. of Copenhagen; Docent, Royal Veterinary and Agricultural Coll., Copenhagen 1930-35; Prof. Tech. Univ. of Denmark, Copenhagen 1935-42; Prof. Univ. of Copenhagen 1942-77; mem. of the Royal Danish Acad. of Sciences and of Acad. of Tech. Sciences; Dir. Carlsberg Foundation 1950-63, Pres. 1955-63. *Address:* Dantes Plads 3, 1556 Copenhagen V, Denmark. *Telephone:* 01-145844.

JESSUP, Philip C., L.C.D., LITT.D., J.D., LL.D., PH.D.; American international lawyer and professor; b. 5 Jan. 1897, New York; s. of Henry Wynans and Mary Hay Stotesbury Jessup; m. Lois Walcott Kellogg 1921; one s.; ed. Hamilton Coll. and Columbia and Yale Univs.; served U.S. Army First World War; Lecturer, Asst. Assoc. Prof. Int. Law, Columbia Univ. 1925-35, Prof. 1935-46, H. Fish Prof. of Int. Law and Diplomacy 1946-61; mem. Staff, Office of Foreign Relief and Rehabilitation Operations, Dept. of State 1943; Asst. Sec.-Gen. UNRRA 1943; Asst. Tech. Sec.-Gen. UNO Bretton Woods Conf. 1944; Asst. U.S. Del. San Francisco Conf. 1945; Assoc. Dir. Naval School of Mil. Govt. and Admin. 1942-44; U.S. rep. at various sessions of UN Security Council and Gen. Ass. 1948-53; apptd. Amb.-at-Large March 1949, resgnd. Jan. 1953; Chair. Chile-Norway Perm. Conciliation Comm. 1958-; Judge, Int. Court of Justice 1961-70; Chair. Austria-Sweden Int. Comm. for Reconciliation and Arbitration 1975-; Storrs Lecturer, Yale Univ. Law School 1956, Cooley Lecturer, Mich. Univ. Law School 1958; Blaustein Lecturer, Columbia Univ. 1970; Sibley Lecturer, Univ. of Georgia 1970; Visiting Prof. Harvard Law School 1938-39; Assoc. Rockefeller Foundation 1960-1961; 1st Vice-Pres. Inst. de Droit Int. 1973-75; mem. American Acad. Arts and Sciences, American Philosophical Soc., Inst. de Droit Int., Governing Council Int. Inst. for Unification of Private Law 1964-67; Trustee Carnegie Endowment for Int. Peace 1937-60, Woodrow Wilson Foundation 1948-57, Pres. 1957-58, Hamilton Coll. 1949-61; Hon. Pres. American Soc. of Int. Law 1969-73, 1976-, American Branch, Int. Law Assn. 1970-73; Hon. mem. Mexican Acad. of Int. Law 1965-; mem. Bd. of Dirs. Council on Foreign Relations 1934-42, Sr. Research Fellow 1970-71; Curatorium Hague Acad. of Int. Law 1957-68; several hon. degrees and decorations. *Publications:* The Law of Territorial Waters and Maritime Jurisdiction 1927, American Neutrality and International Police 1928, The U.S. and the World Court 1929, International Security 1935, Neutrality, Its History, Economics and Law: Vol. I The Origins (with Francies Deák) 1935, Vol. IV To-day and Tomorrow 1936, Elihu Root (2 vols.) 1938, International Problem

of Governing Mankind 1947, A Modern Law of Nations 1948, Transnational Law 1956, The Use of International Law 1959, Controls for Outer Space and the Antarctic Analogy (with Howard J. Taubenfeld) 1959, The Price of International Justice 1971, The Birth of Nations 1974. *Leisure interest:* wild gardening. *Address:* Norfolk, Connecticut 06058, U.S.A. *Telephone:* 203-542-5677.

JEWKES, John, C.B.E., D.SC., M.COM., M.A.; British economist; b. 29 June 1902, Barrow-in-Furness, Lancs.; s. of John Jewkes and Fannie (née Cope); m. Frances Sylvia Butterworth 1928; one d.; ed. Barrow Grammar School and Manchester Univ.; Asst. Sec. Manchester Chamber of Commerce 1925-26; Lecturer in Econs., Manchester Univ. 1926-29; Rockefeller Foundation Fellow 1929-30; Prof. of Social Econs. and Dir. of Econs. Research Section 1936-48; Prof. of Econ. Org., Univ. of Oxford 1948-69; Dir. Industrial Policy Group 1969-74; Dir. Econ. Section, War Cabinet Secr. 1941; Dir.-Gen. of Statistics and Programmes, Ministry of Aircraft Production 1943; Principal Asst. Sec., Office of Ministry of Reconstruction 1944; Visiting Prof. Univ. of Chicago 1953-54, Univ. of Princeton 1961; Econ. Adviser to Arthur Guinness Ltd. 1949-; *Publications:* (With A. Winterbottom) An Industrial Survey of Cumberland and Furness, Juvenile Unemployment; (with E. M. Gray) Wages and Labour in the Cotton Spinning Industry; (with Sylvia Jewkes) The Juvenile Labour Market; The Genesis of the British National Health Service; Value for Money in Medicine; (with Sawers and Stillerman) The Sources of Invention; Ordeal by Planning, Public and Private Enterprise, The New Ordeal by Planning, Delusions of Dominance: A Return to Free Market Economics? *Leisure interests:* gardening and music. *Address:* Entwood, Boars Hill, Oxford, England. *Telephone:* Oxford 735104.

JHA, Chandra Shekhar, O.B.E., M.SC., LL.B., I.C.S.; Indian diplomatist; b. 20 Oct. 1909, Madhubani, Bihar; s. of Pandit Shiva Shankar Jha and Ganga Devi; m. Lakshmi Mishra 1931; two s.; ed. Patna Univ. and London School of Oriental Studies; joined Indian Civil Service 1933; Asst. Magistrate and Collector, Bihar and Orissa 1933-36; Under-Sec. Finance Dept., Bihar 1936-39, Deputy Commr. 1939; Controller and Sec. Supply and Transport Dept., Orissa 1943-46; Deputy Sec. Commonwealth Relations Dept., Govt. of India 1946-47; Jt. Sec. Ministry of External Affairs 1947-50; Chargé d'affaires, Ankara 1950-51; Amb. to Turkey 1951-54; Jt. Sec. Ministry of External Affairs 1954-57; Indian Del. and Sec.-Gen. Afro-Asian Conf., Bandung 1955; Amb. to Japan 1957-59; Perm. Rep. to UN 1959-62, Chair. UN Cttee. on Contributions 1959-62, UN Special Cttee. on Decolonization 1962, Human Rights Comm. 1961-62, UN Cttee. for Programme and Co-ordination 1967-68; High Commr. in Canada 1962-64; Commonwealth Sec., Ministry of External Affairs 1964-65, Foreign Sec. 1965-67; Amb. to France 1967-69; mem. Jt. Inspection Unit, UN and Specialized Agencies, Geneva 1969-77. *Leisure interests:* golf, bridge, chess. *Address:* 51 Golf Links, New Delhi, India. *Telephone:* 617645.

JHA, Lakshmi Kant, M.B.E., B.A., I.C.S.; Indian civil servant; b. 22 Nov. 1913, Bhagalpur; m. Mekhala Acharyya 1941; one s. two d.; ed. Hindu Univ., Banaras and Trinity Coll., Cambridge; Under-Sec., Govt. of Bihar, Local Self Govt. Dept. 1941-42; Deputy Sec. Supply Dept., Govt. of India 1942-46; Del. to UN Maritime Conf.; Chief Controller of Imports and Exports 1947-50; Sec. Ministry of Commerce and Industry 1950-56, 1957-60; Sec. Ministry of Heavy Industries 1956-57; Chair. GATT (Gen. Agreement on Tariffs and Trade) 1957-58, UN Cttee. on Int. Commodity Arrangements 1959-61; Sec. Ministry of Finance, Dept. of Econ. Affairs 1960-64; Dir. Reserve Bank of India and State Bank of India; Alt. Gov. Int. Bank for Reconstruction and Devt. 1960-64; Sec. to Prime Minister 1964-67; Gov. Reserve Bank of India 1967-70; Amb. to U.S.A. 1970-73; Gov., State of Jammu and Kashmir July 1973-; Chair. UN Group of Eminent Persons on Multinational Corpns. 1973-74, Jammu and Kashmir Devt. Review Cttee. 1975-76, Indirect Taxes Enquiry Cttee. 1976-, Commonwealth Group of Industrial Specialists 1976-; mem. Willy Brandt Comm. on Int. Devt. Issues Dec. 1977-. *Publications:* India's Foreign Trade, Parts I and II, Price Policy in a Developing Economy, Economic Development—Ends and Means, The International Monetary Scene and the Human Factor in Economic Development, Shortages and High Prices: The Way Out. *Leisure interests:* archaeology, sculpture, photography and broadcasting. *Address:* Raj Bhavan, Srinagar (Jammu and Kashmir), India. *Telephone:* 3131.

JHABVALA, Ruth Prawer, M.A.; British writer; b. 7 May 1927, Cologne, Germany; d. of Marcus Prawer and Eleonora Cohn; Sister of Siegbert Salomon Prawer (*q.v.*); m. C. S. H. Jhabvala 1951; three d.; ed. Hendon County School and London Univ.; born in Germany of Polish parentage; refugee to England 1939; lived in India 1951-75, in U.S.A. 1975-; Neill Gunn. Int. Fellowship 1979; Booker Award for best novel 1975. *Publications:* novels: To Whom She Will 1955, The Householder 1960, A New Dominion 1971, Heat and Dust 1975; short story collections: A Stronger Climate 1968, An Experience of India 1970, How I Became a Holy Mother 1976; film scripts: Shakespeare Wallah, Roseland, Hullabaloo over Georgie and Bonnie's Pictures 1978. *Address:* c/o Harper and Row, 10 East 53rd Street, New York, N.Y. 10022, U.S.A.

JIAGGE, Annie Ruth, LL.D.; Ghanaian judge and voluntary worker; b. Lomé, Togo; d. of the late Rev. R. D. Baëta and Henrietta L. Baëta; m. F. K. A. Jiagge 1953; ed. Achimota Training Coll., London School of Econs., Lincoln's Inn; Headmistress of Keta Presbyterian Sr. Girls' School for 5 years; admitted to bar, Ghana 1950, practised law 1950-55; District Magistrate 1955-57, Sr. Magistrate 1957-59; Judge, Circuit Court 1959-61, High Court 1961-69, Court of Appeal 1969-; Ghanaian Rep. on UN Comm. on the Status of Women 1962-72, Chair. 1968; Chair. Comm. on Investigation of Assets 1966, Ghana Council on Women and Devt. 1975-; mem. Court, Univ. of Legon 1968-; fmr. Pres. Y.W.C.A. of Ghana, mem. Exec. Cttee. for 12 years and fmr. Vice-Pres. of World Y.W.C.A.; Pres. World Council of Churches 1975-; Hon LL.D. (Legon) 1974; Gimbles' Int. Award for Humanitarian Work 1969, Ghana Grand Medal 1969. *Address:* Court of Appeal, Accra, Ghana. *Telephone:* 63071 (Office), 76392 (Home).

JIMÉNEZ DE ARÉCHAGA, Eduardo, DR.JUR.; Uruguayan international lawyer; b. 8 June 1918, Montevideo; s. of E. Jiménez de Aréchaga and Ester Sienra; m. Marta Ferreira 1943; three s. two d.; ed. School of Law, Univ. de la República; Prof. of Int. Law, Montevideo Law School 1949-69; Under-Sec., Foreign Relations 1950-52; Sec. Council of Govt. of Uruguay 1952-55; mem. Int. Law Comm. of UN 1961-69, Pres. 1963; Rapporteur Cttee., Vienna Conf. on Law of Treaties 1968-69; Minister of Interior 1968; Judge, Int. Court of Justice 1970-79, Pres. Feb. 1976-79; Book award, Inter-American Bar Assn. 1961. *Publications:* Reconocimiento de Gobiernos 1946, Voting and Handling of Disputes in the Security Council 1951, Treaty Stipulations in Favour of Third States 1956, Derecho Constitucional de las Naciones Unidas 1958, Curso de Derecho Internacional Público (2 vols.) 1959-61. *Address:* Casilla de Correo 539, Montevideo, Uruguay. *Telephone:* Montevideo 501837, Maldonada 81794 (Uruguay).

JIMÉNEZ CANTÚ, Jorge; Mexican medical doctor; b. 27 Oct. 1914, Mexico City; s. of Jesús Jiménez Gallardo and Guadalupe Cantú de Jiménez; m. Luisa Isabel Campos Hüttich; one s.; ed. Escuela de Medicina, Universidad Nacional de México; Surgeon, Hospital de Jesús; Prof. of Propadeutical Surgery, Escuela Nacional de Medicina 1941-57; Prof. of Biology, Instituto México, and Centro Universitario México; Sec. Nat. Campaign for Bldg. of Schools 1948-51; Counsellor, Nat. Youth Inst.; Chief of Medical Services, Secr. of Communications and Public Works 1952-57; Sec.-Gen. State of Mexico; Asst. Sec. Organizing Cttee., Olympic Games 1965; Sec. for Health and Welfare 1970-75. *Address:* Secretaría de Salubridad y Asistencia, Lieja 7, México, D.F., Mexico.

JIROUDEK, František; Czechoslovak painter; b. 17 Feb. 1914, Lhota, Semily district; ed. School of Arts and Crafts, Prague, Coll. of Tech., Prague, Acad. of Fina Arts, Prague; mem. of Assen. of Visual Artists, Mánes 1941-; Prof., Acad. of Fine Arts 1961-, Pres. 1970-76; mem. Visual Arts Council of Czech Ministry of Culture 1970-; mem. Preparatory Cttee. of Union of Czech Visual Artists (SČVU) 1970-72, Presidium of SČVU 1972-; Co-founder, group of Seven in October; Klement Gottwald State Prize 1963, 1978, Artist of Merit 1964, First Prize in Competition for Anniversary of October Revolution 1967, Prize at Int. Exhbn. of Committed Painting, Sofia 1973, Nat. Artist 1976. One-man exhbns.: 19 in Prague, Brno, Ostrava, W. Berlin, Warsaw, Vienna, Cairo, Olomouc, Pardubice, Bratislava, New Delhi. *Paintings include:* Trója Château 1937, From the Dressing Room, Actresses 1943, People in the Shelter, Wandering Musicians, Landscapes from Polabí 1944, Seine Embankment 1946, Prague 1948, Autumn in Libčchov, Vineyards in Autumn 1955, Summer in the Vineyard 1956, Landscape at Lopud, Dubrovnik 1957, Florence, Landscape near Litoměřice 1958, Czech Landscape, The Vintage Season, Child with Pigeons, Child's Song 1961-62, Czech Landscape 1964, By the well 1966, Against War (cycle) 1964-67, Autumn Landscape, In the Theatre Dressing Room 1967, Tree, River, Reclining Woman 1970. *Address:* Akademie vytvarnych uměni, Ul. Akademie 172, Prague 7, Czechoslovakia.

JOBERT, Michel; French politician; b. 11 Sept. 1921, Meknes, Morocco; m. Muriel Frances Green; one s.; ed. Meknes Lycée, Ecole Libre des Sciences Politiques, Paris and Nat. School of Admin., Paris; Auditor Court of Accounts 1949, Counsel 1971; attached to Departmental Staff of Sec. of state for Finance 1952; Tech. Adviser, Ministry of Labour and Social Security 1952-54; attached to the

Office of Pierre Mendès-France 1954-55 and Feb.-May 1956; Dir. of Cabinet to the High Commr. for French W. Africa 1956-58, to M. Lecourt, Minister of State 1959-61; Deputy Dir. of Cabinet to Prime Minister Georges Pompidou 1963-66, Principal Private Sec. 1966-68; Sec.-Gen. of the Presidency 1969-73; Minister of Foreign Affairs 1973-74; founder and leader Mouvement des Démocrates March 1974-; fmr. mem. Bd. of SOFIRAD (Radio Monte-Carlo), Havas Agency and French Radio and Television Org.; Chair. Bd. of Dirs. Nat. Forestry Office 1966-73; Publr. of monthly newsletter La Lettre de Michel Jobert 1974-; Officier Légion d'honneur; Croix de guerre (1939-45). *Publications:* Mémoires d'avenir 1974, L'autre regard 1976, Lettre ouverte aux femmes politiques 1976, Parler aux français 1977, La vie d'Hella Schuster 1977. *Address:* 108 Quai Louis Blériot, 75016 Paris (Office); 21 quai Alphonse-Le Gallo, 92100 Boulogne-Billancourt, France (Home).

JOBORU, Dr. Magda; Hungarian librarian and educationist; b. 1 Oct. 1918, Csáktornya; d. of István Jóburu and Vilma Beér; m. 2nd. Miklós Ajtai (q.v.) 1968; ed. High School, Budapest Univ.; Teacher, Mezotur 1941-46; Dir. Ilona Zrinyi People's Coll. 1946-48; Gen. Sec. Hungarian Dem. Women's Union 1948-50; Deputy Minister of Education 1950-58, M.P. 1947-51; Dir.-Gen., Nat. Library 1958-66; Chair. Hungarian Nat. Cttee. on UNESCO 1955-66, and mem. Exec. Bd. 1964-72; Vice-Pres. Exec. Bd. UNESCO 1966-68; Amb. and Head of Perm. Del. of Hungary at UNESCO 1966-68; Dir.-Gen. Nat. Library, Lecturer at Budapest Univ. (Pedagogy) 1968-; Pres. 18th Session of Gen. Conf. of UNESCO 1974-76; Kossuth Medal, Order of Labour. *Publications:* Life and School, The Grammar School in the Horthy Period, Education in the Capitalist Countries from 1918 until Now, Education in the Horthy period. *Leisure interests:* literature, theatre, cinema, visual arts. *Address:* Országos Széchenyi Könyvtár, Muzeum krt. 14/16, H-1088, Budapest VIII, Hungary. *Telephone:* 331-714.

JOCHUM, Eugen; German conductor; b. 1 Nov. 1902, Babenhausen, Swabia; m. Maria Montz 1927; two d.; ed. Gymnasium St. Stephan, Augsburg, and Akad. der Tonkunst, Munich; First Conductor, Kiel Opera House 1926-29, Mannheim Nat. Theatre 1929-30; Gen. Musical Dir. Duisburg 1930-32, Radio Berlin 1932-34, Staatsoper and Philharmonic Orchestra, Hamburg 1934-49, Bayerischer Rundfunk 1949-61; Chief Conductor Concertgebouw Amsterdam 1961-63; Guest Conductor all over Europe 1926-, U.S.A., Canada and Japan 1958-; Regular Conductor Berlin Philharmonic Orchestra; tours with Berlin Philharmonic Orchestra, Concertgebouw, Bayerischer Rundfunk, Detroit Symphony Orchestra, Los Angeles Symphony Orchestra; now Perm. Guest Conductor with Concertgebouw, Amsterdam, West Berlin State Opera and Philharmonic Orchestra, Chicago Opera; Chief Conductor, Bamberger Symphoniker 1971-77; Conductor Laureate of London Symphony Orchestra, touring and recording 1977-; Brahms and Bruckner Medals; Record Prizes, Bayerischer Verdienstorden, etc.; Records (Deutsche Grammophon and Philips): include all Beethoven, Brahms, all Bruckner symphonies. *Leisure interests:* history, architecture, archaeology, swimming, sailing. *Address:* 8 München 19, Brunhildenstrasse 2, Federal Republic of Germany.

JOHANNES, Herman; Indonesian engineer, professor and politician; b. 1913; High School teacher 1940; Lecturer, Medical Faculty, Jakarta Univ. 1943; Lecturer, Tech. Faculty, Gadjah Mada Univ., Jogjakarta 1946, Prof. of Physics 1948, Dean Physics and Mathematics Faculty 1949, Rector 1961-66; Minister of Public Works and Power, Repub. of Indonesia Sept. 1950-April 1951; mem. Exec. Bd. UNESCO 1954-56; mem. Council for Sciences of Indonesia 1956-63; mem. Planning Council 1958-63; co-ordinator Higher Educ. South Cent. Java 1966-; mem. Supreme Advisory Council 1968-; *Publications:* Analysis of the Critical Depth 1939, Flexure Factors Method 1953, Industry and the Population Boom 1966, Nuclear Binding Engergies and the Magic Numbers 1967. *Address:* 3 Sekip, Jogjakarta, Indonesia.

JÓHANNESSON, Ólafur: Icelandic politician; b. 1 March 1913, Skagafjördur; m. Dóra Gudbjartsdóttir; two d.; ed. Akureyn Coll. and Univ. of Iceland; Lawyer and Auditor, Fed. of Iceland Co-operative Socs. 1944-47; Prof. of Law, Univ. of Iceland 1947-71; mem. State Radio Council 1946-53; mem. Bd. of Dirs. Cen. Bank of Iceland 1957-; mem. Althing 1959-; mem. Cen. Cttee. Progressive Party 1946-; Vice-Pres. 1960-68, Pres. 1968-, Parl. Leader 1969-71; Prime Minister and Minister of Justice and Ecclesiastical Affairs 1971-74; Minister of Justice and Trade 1974-78; Prime Minister of Iceland Aug. 1978-. *Publications:* several books, mainly on constitutional law; numerous articles on law in Icelandic and foreign publications. *Address:* Office of the Prime Minister, Reykjavík, Iceland.

JÓHANNSON, Kjartan, M.S., PH.D.; Icelandic politician; b. 19 Dec. 1939, Reykjavík; s. of Jóhan and Astrid Dahl Thorsteinsson; m. Irma Karlsdottir 1964; one d.; ed. Reykjavik Coll., Tech. Univ. of Stockholm, Univ. of Stockholm, Illinois Inst. of Tech., Chicago; Consulting Eng. in Reykjavík 1966-; Teacher in Faculty of Eng. and Science, later in Faculty for Econs. and Business Admin., Univ. of Iceland 1966-; Chair. Org. for Support of the Elderly, Hafnarfjördur; Dir. Icelandic Aluminium Co. Ltd. 1970-75; Chair. Fisheries Board of Municipal Trawler Co., Hafnarfjördur 1970-74; mem. Municipal Council, Hafnarfjördur 1974-; mem. Party Council and Exec. Council, Social Democratic Party 1972-, Vice-Chair. of Social Democratic Party 1974-; M.P. 1978-; Minister of Fisheries 1978-. *Address:* Jófríðarstaðvegi 11, Hafnarfirdi, Iceland. *Telephone:* 91-52597.

JOHANNSSON, (Erik) Lennart Valdemar; Swedish industrialist; b. 3 Oct. 1921, Gothenburg; s. of Waldemar and Alma Johansson (née Nordh); m. Inger Hedberg 1944; two s. one d.; ed. Tech. Coll.; Production Engineer AB SKF 1943, Man. of Mfg. 1961, Gen. Man. 1966, Deputy Man. Dir. 1969, Man. Dir., Chief Exec. Officer 1971-, Group Pres. 1975-; Dir. ESAB AB 1968, AB Volvo 1972, Swedish Eng. Employers' Assn. 1963, Swedish Employers' Confed. 1971, Broströms Rederi AB 1975, Skandinaviska Enskilda Banken 1977; mem. Royal Swedish Acad. of Eng. Sciences 1971; Commdr., Royal Order of Vasa. *Leisure interests:* sailing, swimming. *Address:* AB SKF, 415 50 Gothenburg (Office); Götabergsgatan 34, 411 34 Gothenburg, Sweden (Home). *Telephone:* 031/371000 (Office); 031/812518 (Home).

JOHANSSON, Rune B.; Swedish politician; b. 12 Feb. 1915, Växjö; s. of Axel Johansson and Hulda (née Lundkvist); m. Gulli Kristiansson 1941; four s. one d.; ed. Ljungby; worked as a baker; held positions in Ljungby Town Council; M.P. 1951-; Minister of the Interior 1957-69; Dir. at Riksbyggen 1969-71; Minister of Industry 1971-76; Social Dem. Labour. *Address:* Brunkebergstorg 9, 10012 Stockholm 46, Sweden.

JOHN, Admiral of the Fleet Sir Caspar, G.C.B.; British naval officer; b. 22 March 1903, London; s. of late Augustus John, O.M., R.A., and Ida John; m. Mary Vanderpump 1944; one s. two d.; ed. Royal Naval Coll., Dartmouth; joined R.N. 1916, Capt. 1941, Rear-Admiral 1951, Flag Officer Commanding Third Aircraft Carrier Squadron and Heavy Squadron 1951-52, Deputy Controller Aircraft 1953-54, Vice-Admiral 1954, Flag Officer Air 1955-57, Vice-Chief of Naval Staff 1957-60, First Sea Lord and Chief of Naval Staff 1960-63; Chair. Housing Corpn. 1964-68; Chair. Star and Garter Home 1967-73; mem. Govt. Security Comm. 1964-71. *Leisure interest:* forestry. *Address:* Weaver's Cottage, Buckfastleigh, Devon, TQ11 0LZ, England. *Telephone:* Buckfastleigh 3424.

JOHN, David Dilwyn, C.B.E., T.D., D.SC., LL.D.; British museum director; b. 20 Nov. 1901, Llangan, Glam., Wales; s. of Thomas and Julia John; m. Marjorie Emily Page 1929; one s. one d.; ed. Univ. Coll. of Wales; Zoologist, engaged in oceanographical research in Antarctic seas 1925; Asst. Keeper, British Museum (Natural History) 1935, Deputy Keeper 1948; Dir. Nat. Museum of Wales, Cardiff 1948-68; Polar Medal. *Leisure interest:* preservation of the countryside. *Address:* 7 Cyncoed Avenue, Cardiff, CF2 6ST, Wales. *Telephone:* 752499.

JOHN, DeWitt, M.A., M.S.; American church director; b. 1 Aug. 1915, Stafford, Arizona; s. of Frank H. John and Frances DeWitt John; m. Morley Marshall 1942; one s. one d.; ed. Principia Coll., Elsah, Ill., Univ. of Chicago, and Columbia Univ.; Editorial page writer, St. Petersburg Times (Florida) 1938-39; mem. staff Christian Science Monitor 1939-49, Editor 1964-70; Man. Christian Science Cttees. on Publs. 1962-64; U.S. Naval Reserve 1942-45; Dir. First Church of Christ, Scientist 1970-. *Publication:* The Christian Science Way of Life 1962. *Leisure interests:* skiing, classical music. *Address:* Christian Science Center, Boston, Mass. 02115 (Office); Old Concord Road, Lincoln, Mass. 01773, U.S.A. (Home). *Telephone:* 262-2300 (Office), 259-8390 (Home).

JOHN, Elton Hercules; British musician; b. (as Reginald Kenneth Dwight) 25 March 1947, Pinner, Middx.; ed. Pinner County Grammar School; began piano lessons 1951; played piano in Northwood Hills Hotel bar 1964; joined local group Bluesology 1965; began writing songs with Bernie Taupin 1967; recording contract with DJM Records 1967; first single Lady Samantha 1969, first LP Empty Sky 1969; concerts in Los Angeles 1970; engaged Man. John Reid 1971-; formed Rocket Record Co. with Bernie Taupin 1973; frequent tours in U.K., U.S.A., Japan, Australia 1971-76; first album released by Rocket Record Co. 1976; produced records with Clive Franks for Kiki Dee, Blue, Davey Johnstone's China 1976-77; Chair. Watford Football Club 1976-; Ivor Novello Award 1976, and silver and gold discs in various countries for singles and albums. *Records:*

singles: Lady Samantha, It's Me That You Need, Border Song, Rock and Roll Madonna, Your Song, Friends, Rocket Man, Honky Cat, Crocodile Rock, Daniel, Saturday Night's Alright (for fighting), Goodbye Yellow Brick Road, Step into Christmas, Candle in the Wind, Don't Let the Sun Go Down on Me, The Bitch is Back, Lucy in the Sky with Diamonds, Philadelphia Freedom, Someone Saved My Life Tonight, Island Girl, Grow Some Funk of Your Own, Pinball Wizard, Don't Go Breaking My Heart (with Kiki Dee), Sorry Seems to be the Hardest Word, Crazy Water; albums: Empty sky, Elton John, Tumbelweed Connection, Friends (film soundtrack), 17-11-70, Madman Across the Water, Honky Chateau, Don't Shoot Me I'm Only the Piano Player, Goodbye Yellow Brick Road (double), Caribou, Elton John's Greatest Hits, Captain Fantastic and the Brown Dirt Cowboy, Rock of the Westies, Here and There, Blue Moves (double), A Single Man. *Leisure interests:* football, collecting records, tennis, all sports. *Address:* c/o John Reid Enterprises, 40 South Audley Street, Mayfair, London, W.1, England.

JOHN, Fritz, PH.D.; American mathematician; b. 14 June, 1910, Berlin, Germany; s. of Herman Jacobsohn and Hedwig (Bürgel) Jacobsohn-John; m. Charlotte Woellmer John 1933; two s.; ed. Göttingen and Cambridge Univs.; Asst. and Assoc. Prof., Univ. of Kentucky 1935-42; Mathematician, Aberdeen Proving Ground, Maryland 1943-45; Assoc. Prof., New York Univ. 1946-51, Prof. of Math., Courant Inst. of Mathematical Sciences, New York Univ. 1951-; Dir. of Research, Inst. of Numerical Analysis 1950-51; mem. Nat. Acad. of Sciences; Benjamin Franklin Fellow, Royal Soc. of Arts, London; Birkhoff Prize in Applied Math. 1973. *Publications:* Plane Waves and Spherical Means 1955, Lecture on partial differential equations (Co-Author) 1964, Calculus and Analysis 1 (Co-Author) 1965, Lecture on Advanced numerical analysis 1967, Partial Differential Equations 1971. *Leisure interests:* hiking, astronomy. *Address:* Courant Institute of Mathematical Sciences, 251 Mercer Street, New York, N.Y. 10012, U.S.A.

JOHN, Patrick; Dominica politician; b. 7 Jan. 1937; Leader Dominica Labour Party; Premier of Dominica 1974-78, Prime Minister 1978-79, Minister for Housing, Security and Devt. 1978-79. *Address:* c/o Office of the Prime Minister, Roseau, Dominica.

JOHN PAUL II, His Holiness Pope (Karol Wojtyla); b. 18 May 1920, Wadowice; ed. Jagiellonian Univ., Cracow; ordained Priest 1946; Prof. of Moral Theology at Univs. of Cracow and Lublin 1953-58; Chair. Dept. of Ethics, Catholic Univ., Lublin; Bishop of Ombi and Vicar-General of Archdiocese 1958, Scholastic of Metropolitan Chapter and Vicar of Archdiocese 1960-64; Archbishop of Cracow 1963-78; cr. Cardinal by Pope Paul VI 1967; elected Pope Oct. 1978; fmr. mem. Congregation Pro Institutione Catholica, Pro Sacramentis et Cultu Divino, Pro Clero; Adviser to the Council of Laymen; mem. Council of Sec.-Gen. of Bishops' Synod. *Publications:* Love and Responsibility 1960, 1962, 1965, 1968, 1969, Person and Act 1969, The Foundations of Renewal—study of the realization of the Second Vatican Council 1972, The Acting Person 1978, Easter Vigil and Other Poems 1978. *Leisure interests:* skiing, rowing, sport. *Address:* Apostolic Palace, Vatican City. *Telephone:* 6982.

JOHNS, Jasper; American painter; b. 15 May 1930; ed. Univ. of South Carolina; works in following collections: Tate Gallery, London, Museum of Modern Art, New York, Albright-Knox Art Gallery, Buffalo, N.Y., Museum Ludwig, Cologne, Hirshhorn Museum and Sculpture Garden, Washington, D.C., Whitney Museum of American Art, Stedelijk Museum, Amsterdam, Moderna Museet, Stockholm, Dallas Museum of Fine Arts; one-man exhibitions: Leo Castelli, New York 1958, 1960, 1961, 1963, 1966, 1968, 1976, Galerie Rive Droite, Paris 1959, 1961, Galleria d'Arte del Naviglio, Milan 1959, Columbia Museum of Art, Columbia, S. Carolina 1960, Ileana Sonnabend, Paris 1962, Jewish Museum, New York 1964, Whitechapel Gallery, London 1964, Pasadena Museum, Calif. 1965, Smithsonian Inst. 1966, Arts Council of G.B. 1974-75, Philadelphia Museum of Art 1970, Museum of Modern Art, New York 1970, Whitney Museum of American Art 1977, Kunsthalle, Cologne, 1978, Centre Georges Pompidou, Paris 1978, Hayward Gallery, London 1978, Seibu Museum, Tokyo 1978, San Francisco Museum of Modern Art 1978; Prize, Pittsburgh Int. 1958. *Address:* c/o Leo Castelli Gallery, 4 East 77th Street, New York, N.Y. 10024, U.S.A.

JOHNSON, Alan Woodworth, F.R.S.; British professor of chemistry; b. 29 Sept. 1917, Newcastle-upon-Tyne; s. of James William and Jean Johnson; m. Lucy Ida Celia Bennett 1941; one s. one d.; ed. Morpeth Grammar School, Royal Coll. of Science, London, and Imperial Coll. of Science, London; Chemist, Swan, Hunter and Wigham Richardson Ltd. 1934; Thomas Hedley and Co. Ltd. 1935-36; Royal Scholar, Imperial Coll. of Science 1936-38; Research Asst. in Organic Chem., Royal Coll. of Science 1940-42; Research Chemist, I.C.I. Dyestuffs Div., 1942-46; I.C.I. Fellow, Univ. of Cambridge 1946-48; Asst. Dir. of Research in Organic Chem., Univ. of Cambridge 1948-53, Lecturer in Organic Chem. 1953-55; Sir Jesse Boot Prof. of Organic Chem. and Head of Chem., Univ. of Nottingham 1955-68; Prof. of Chem., Univ. of Sussex 1968-; Fellow and Steward, Christ's Coll. Cambridge 1951-55; Visiting Prof., Univ. of Melbourne 1960, Univ. of Calif., Berkeley 1962; Pres. Chemical Soc. 1977-78; Nat. Research and Devt. Council; Hon. Dir. Agricultural Research Council Unit of Invertebrate Chem. and Physiology; Meldola Medallist, Royal Inst. of Chem. 1946; Tilden Lecturer, Chemical Soc. 1953; Simonsen Lecturer, Chemical Soc. 1967; Chem. Soc. Award for Synthesis 1972; Pedler Lecturer, Chemical Soc. 1973; Hon. Fellow Imperial College of Science and Technology; Hon. D.Sc. (Memorial Univ., St. Johns, Newfoundland, Liverpool, Newcastle-upon-Tyne). *Publications:* Chemistry of Acetylenic Compounds, Vol. I 1946, Vol. II 1950; numerous papers in chem. and biochem. journals. *Leisure interests:* tennis, philately. *Address:* The Chemical Laboratory, University of Sussex, Falmer, Brighton, BN1 9QJ, Sussex, England. *Telephone:* Brighton 606755.

JOHNSON, Axel Ax:son; Swedish industrialist and shipowner; b. 4 Oct. 1910, Stockholm; s. of Axel and Margaret Ax:son Johnson; m. Antonia do Amaral Souza 1941; d.; Pres. Rederiaktiebolaget Nordstjernan (Johnson Line), A. Johnson & Co. HAB; Owner A. Johnson & Co.; Chair. Skandia Group of Insurance Cos. 1974-75, Swedish Nat. Appeal for World Wildlife Fund 1971-, Avesta Jernverks AB, A. Johnson and Co. Inc., New York, A. Johnson & Co. (London) Ltd., AB Karlstads Mekaniska Werkstad, Kjellbergs Successors AB, AB Nynäs-Petroleum, Försäkrings AB Sirius, Irano-Swedish Co. AB 1974-, C. H. Sprague & Son Co., Boston 1972, Swedish Comm. Lloyd's Register of Shipping 1973-; Vice-Chair. Adela Investment Co. 1969-74, Skandinaviska Enskilda Banken, Oljeprospektering AB, Swedish American Chamber of Commerce of Western U.S.; mem. Bd. of Dirs. Fed. of Swedish Industries, Swedish Chamber of Commerce Inc., New York, 1957, W. R. Grace and Co.; mem. Assen. of Reps. of Scandinavian Airlines System (SAS), Swedish Cttee. Int. Chambers of Commerce, Bd. of Trustees, World Wildlife Fund; mem. Royal Swedish Acad. of Agric. and Forestry 1966-, Royal Swedish Acad. of Eng. Sciences 1969-; Hon. mem. Royal Swedish Soc. of Naval Sciences 1961-; Consul-Gen. of Thailand; Dr. Tech. h.c. (Royal Inst. of Tech. Stockholm); numerous national and foreign decorations. *Leisure interests:* horse-riding, yachting, skiing. *Address:* Rederiaktiebolaget Nordstjernan Johnson Line, Fack, S-103 80 Stockholm (Office); Karlavägen 85, 3rd Floor, S-114 59 Stockholm, Sweden (Home).

JOHNSON, Celia, C.B.E.; British actress; b. 18 Dec. 1908; m. Peter Fleming; ed. St. Paul's Girls' School, Royal Acad. of Dramatic Art; first stage appearance, Huddersfield 1928; first London appearance as Currita (A Hundred Years Old) 1929; subsequent roles include Loveday Trevelyan (Debonair) 1930, Phyl (After All) 1931, Ophelia (Hamlet) (New York) 1931, Anne Hargraves (The Wind and the Rain) 1933, Elizabeth Bennet (Pride and Prejudice) 1936, Mrs. de Winter (Rebecca) 1940, Jennifer (The Doctor's Dilemma) 1942, Joan (St. Joan) 1948-49, Viola (Twelfth Night) 1950, Olga (The Three Sisters) 1951, Sheila Broadbent (The Reluctant Debutante) 1955, Isobel Cherry (Flowering Cherry) 1957-58, Aline (The Master Builder) 1964, Mme Ranyevskaya (The Cherry Orchard), Chichester 1966, Relatively Speaking, London 1967, Hay Fever 1968, Hamlet 1971, Dame of Sark 1974, The Kingfisher 1977; films: In Which We Serve 1942, Dear Octopus 1942, This Happy Breed 1944, Brief Encounter 1946, The Astonished Heart 1949, I Believe in You 1952, The Captain's Paradise 1953, The Holly and the Ivy 1954, A Kid for Two Farthings 1956, The Good Companions 1957, The Prime of Miss Jean Brodie 1969, Romeo and Juliet (TV) 1978. *Address:* Merrimoles House, Nettlebed, Oxfordshire. England.

JOHNSON, David Gale; American economist; b. 10 July 1916, Vinton, Iowa; s. of Albert D. Johnson and Myra Jane Reed; m. Helen Virginia Wallace 1938; s. d.; ed. Iowa State Coll., Univs. of Wisconsin and Chicago. Research Assoc. Iowa State Coll. 1941-42, Asst. Prof. of Econs. 1942-44; Dept. of Econs., Univ. of Chicago 1944-, Asst. Prof. 1944-54, Prof. 1954-, Assoc. Dean Div. of Social Sciences 1957-60, Dean 1960-70, Chair. Dept. of Econs. 1971-75, Vice-Pres. and Dean of Faculties 1975-, Provost 1976-; Economist, Office of Price Admin. 1942, Dept. of State 1946, Dept. of Army 1948; Office of the President's Special Rep. for Trade Negotiations 1963-; Agency for Int. Devt. 1961-62; Tenn. Valley Authority 1950-55; RAND Corpn. 1953-71; Dir. Social Science Research Council 1954-57; Pres. American Farm Econ. Assen. 1964-65, Nat. Opinion Research Center 1962-75; mem. President's Nat. Advisory Comm. on Food and Fibre 1965-67; Adviser, Policy Planning Council, U.S. Dept. of State 1966-69; mem. Nat. Research

Council, mem. Exec. Cttee. Div. of Behavioural Sciences, Nat. Research Council 1969-73; mem. Nat. Comm. on Population Growth and the American Future 1970-72; Acting Dir. Univ. of Chicago Library 1971-72; mem. Council on Int. Econ. Policy 1972-75; mem. Steering Cttee., Nat. Acad. of Sciences World Food and Nutrition Study 1975-77; Fellow, American Acad. of Arts and Sciences 1976–. *Publications:* Forward Prices for Agriculture 1947, Trade and Agriculture 1950, Grain Yields and the American Food Supply 1963, World Agriculture in Disarray 1973, World Food Problems and Prospects 1975. *Leisure interests:* reading, travel. *Address:* 5617 S. Kenwood Avenue, Chicago, Illinois 60637, U.S.A. *Telephone:* 312-753-3013 (Office); 312-HY3-4015 (Home).

JOHNSON, Donald E.; American farm supply executive and fmr. government official; b. 5 June 1924, Cedar Falls, Iowa; m. Mary Jean Suchomel 1947; six s. five d.; ed. Iowa State Univ. and Eastern Oregon Coll. of Educ., La Grande; U.S. Army Service 1942-46; fmr. Chair. of Bd., Protein Blenders Inc., Iowa City; fmr. Vice-Pres. ME-JON Fertilizer Inc., Oxford, Iowa; fmr. Sec.-Treas. Johnson Hatcheries Inc., West Branch; Pres. West Branch Farm Supply Inc. 1961-69, 1977-, D.J. Services Inc. 1961-69, 1977-; fmr. Sec.-Treas. S. & J. Poultry Co. Inc.; Chair. Governor's Comm. on Merit in Employment 1954-55; Advisory mem. U.S. Comm. on Civil Rights 1958-60; Admin. of Veterans Affairs 1969-74; Deputy Asst. Sec. for Domestic and Int. Business, Dept. of Commerce, Washington, D.C. 1974-77; Chair. Pres. Comm. on the Viet-Nam Veterans; Nat. Commdr. American Legion 1964, Bronze Star, Croix de guerre (Belgium). Purple Heart. *Address:* Box 577, West Branch, Ia. 52358 (Office); 1500 Olde Hickory Lane, Coralville, Ia. 52241, U.S.A. (Home).

JOHNSON, Donald M.; American insurance executive; b. 15 Feb. 1920, Los Angeles; m. Marguerite Glaze 1942; four s.; ed. Univ. of Calif., Los Angeles; joined Aetna Life and Casualty Co. 1946, Asst. Vice-Pres. 1961, Sr. Vice-Pres. Jan. 1968, Exec. Vice-Pres. Oct. 1968, Pres. for insurance operations 1970; Pres. Aetna Fund Inc. 1970; Dir. Aetna Life and Casualty Co. 1970, Pres. 1972-76; Pres. Aetna Variable Annuity Life Insurance Co.; mem. Gen. Council Assicurazioni Generali; Chair. of Bd., Aetna Business Credit, Inc.; Chair. of Bd., Chief Exec. Officer, Industrial Indemnity Co., San Francisco 1976-; dir. of four other companies and officer in eight insurance trade orgs. *Address:* Industrial Indemnity Co., 255 California Street, San Francisco, Calif. 94111, U.S.A.

JOHNSON, G. Griffith; American government official; b. 15 Aug. 1912, New York; m. Janet Clementson Young 1936; one s. one d.; ed. Harvard Univ.; Treasury Dept. 1936-37, 1938-39; Nat. Defense Admin. Comm. 1940-41; Office of Price Admin. 1941-46; Dir. Econ. Stabilization Div., Nat. Security Resources Bd. 1948-49; Asst. Chief, Fiscal Div., Chief Economist, Bureau of Budget 1949-50; Asst. Admin. Econ. Policy, Econ. Stabilization Agency 1950; Economist, Motion Picture Assn. of America 1952, Vice-Pres. 1952-62, Exec. Vice-Pres. 1971-; Consultant, Int. Econs., Dept. of State 1962, Asst. Sec. of State for Econ. Affairs 1962-65; Exec. Vice-Pres. Motion Picture Export Assn. of America 1965-. *Publications:* The Treasury and Monetary Policy 1939, Economic Effects of Federal Public Works Expenditures (with J. K. Galbraith) 1940. *Address:* 5100 Dorset Avenue, Chevy Chase, Maryland 20015, U.S.A. (Home).

JOHNSON, Gen. Harold K.; American fmr. army officer; b. 22 Feb. 1912, Bowesmont, N.D.; s. of late Harold C. Johnson and Edna Thomson; m. Dorothy Helen Rennix 1935; two s. one d.; ed. U.S. Mil. Acad., West Point; Second Lieut. 1933; Prisoner of War 1942-45; served Korea 1950-51; Nat. War Coll. 1953; Dept. of Army, Washington 1953-56; Asst. Div. Commdr., 8th Div. 1956-58; Chief of Staff, Seventh Army, Stuttgart 1959; Chief of Staff, Cen. Army 1959-60; Commdt., U.S. Army Command and Gen. Staff Coll., Fort Leavenworth, Kansas 1960-63; Army Gen. Staff, Washington 1963-68, Deputy Chief of Staff (Mil. Operations) 1963-64, Chief of Staff 1964-68; retd. from active service July 1968, subsequently Pres. Freedoms Foundation at Valley Forge, Pres. Herbert Hoover Presidential Library Assn. 1969-; Distinguished Service Cross, Distinguished Service Medal with Oak Leaf Cluster, Legion of Honour, and numerous foreign awards. *Leisure interests:* active interest in Boy Scout movement, playing the organ.

JOHNSON, Harold Lester, PH.D.; American astronomer; b. 17 April 1921, Denver, Colo.; s. of late Averill C. and Marie (Sallach) Johnson; m. Mary E. Jones 1954; one s. one d.; ed. Univ. of Denver and Univ. of Calif. (Berkeley); Asst. Prof. of Astronomy, Univ. of Chicago 1950-52, Prof. 1959-61; Astronomer, Lowell Observatory, Flagstaff, Ariz. 1952-59; Prof. of Astronomy, Univ. of Texas 1959-61, Chair. of Dept. 1961; Research Prof. Lunar and Planetary Lab., Univ. of Ariz. 1962-69; research Prof. Optical Sciences Center 1969-74; Research Prof. and Astronomer, Steward Observatory, Univ. of Ariz. 1974-; Investigador Titular, Instituto de Astronomia Universidad Nacional de México 1968-; Investigador Titular, Centro de Investigación Cientifica y Educación Superior de Enseñada, B.C., México, and Dir., Laboratorio de Fisíca Aplicada, CICESE 1973; mem. Nat. Acad. of Sciences, American Astronomical Soc., Int. Astronomical Union, New York Acad. of Sciences, Astronomical Soc. of the Pacific, Optical Soc. of America, Instrument Soc. of America; Helen B. Warner Prize (American Astronomical Soc.). *Leisure interest:* construction of live steam locomotives. *Address:* Steward Observatory, University of Arizona, Tucson, Ariz. 85712; Instituto de Astronomía, Universidad Nacional de México, Ciudad Universitaria, México 20, D.F., Mexico (Office); 731 West Paseo Norteño, Tucson, Ariz. 85704, U.S.A. (Home). *Telephone:* (602) 844-2288 (Office); (602) 297-7829 (Home).

JOHNSON, Sir Henry Cecil, K.B.E.; British businessman; b. 11 Sept. 1906, Lavendon, Bucks.; s. of William Longland Johnson and Alice Mary Osborn; m. Evelyn Mary Morton 1932; two d.; ed. Bedford Modern School, Bedford; Gen. Man., Eastern Region of British Railways 1958-62, Chair. and Gen. Man., London Midland Region 1962-67; Vice-Chair. British Railways Bd. 1967-68; Chair. British Railways Bd. 1968-71, Metropolitan Estate and Property Corpn. (MEPC Ltd.) 1971-76; mem. Greater London Regional Board, Lloyds Bank 1971-; Chair. Dennis Waring and Co. Ltd.; Dir. Imperial Life Assurance Co. of Canada 1972-. *Leisure interest:* golf. *Address:* "Rowans", Harewood Road, Chalfont St. Giles, Bucks., England. *Telephone:* Little Chalfont 2409.

JOHNSON, Howard C.; American financial official; b. 7 Feb. 1909; ed. Swarthmore Coll. and Harvard Business School. Investment Banking with Lazard Frères & Co., subsequently with Morgan Stanley & Co. 1933-41; U.S. Navy in Second World War, Asst. to Sec. of Jt. Chiefs of Staff 1943-45; Chief of Div. of Int. Security Affairs, later Adviser on Planning, Bureau of UN Affairs, State Dept. 1945-52; with Ford Foundation 1952-55; Asst. to Chair. of Bd., U.S. Steel Corpn. 1955-60, Dir. Stockholder Relations Dept. 1960-63; Man. of Portfolio Sales and Participations, Marketing Dept., Int. Bank for Reconstruction and Devt. and Int. Finance Corpn. (IFC) 1963, Dir. of New York Office, Int. Bank and IFC Nov. 1963-68; Pres. and Chief Exec. World Banking Corpn., Nassau, Bahamas 1968-71. *Address:* RRI Box 106, Yarmouth, Maine 04096, U.S.A.

JOHNSON, Howard Wesley, M.A.; American educator; b. 2 July 1922, Chicago, Ill.; s. of Albert and Laura (Hansen) Johnson; m. Elizabeth J. Weed 1950; two s. one d.; ed. Central Coll., Univ. of Chicago and Glasgow Univ.; U.S. Army 1943-46; Assoc. Prof. and Dir. of Man. Research, Univ. of Chicago 1948-55; Assoc. Prof., Assoc. Dean, Alfred P. Sloan School of Man., Mass. Inst. of Tech., 1955-59, Prof., Dean 1959-66; Exec. Vice-Pres., Federated Dept. Stores 1966, mem. of Dirs. 1966-; Dir. Hitchiner Mfg. Co. 1961-71, Putnam Funds 1961-71 Morgan Guaranty Trust Co. 1971-; mem. Council on Foreign Relations, President's Advisory Cttee. on Labor-Man. Policy 1966-68; Pres. M.I.T. 1966-71, Chair. of Corpn. 1971-; Dir. Fed. Reserve Bank of Boston 1967-68, Chair. 1968-69; Dir. John Hancock Mutual Life Insurance Co. 1968-; mem. at Large, Boy Scouts of America 1968-; Trustee Cttee. for Econ. Devt. 1968-71; Trustee, Wellesley Coll. 1968-; Trustee, Inst. for Defense Analyses 1971-; Overseer Boston Symphony Orchestra 1968-72; mem. Scientific Advisory Cttee., Mass. Gen. Hosp. 1968-70, Corpn. Museum of Science (Boston) 1966-, NASA ad hoc Science Advisory Cttee. 1966-71, Nat. Manpower Advisory Cttee. 1967-69, Nat. Comm. on Productivity 1970-72; Dir. Champion Int. Corpn. 1970-; Dir. E. I. Du Pont de Nemours and Co. 1972-; Vice-Chair. Federated Dept. Stores 1971-73; Trustee, Radcliffe Coll. 1973-, Aspen Inst. for Humanistic Studies 1973-; Pres. Boston Museum of Fine Arts 1975-; Fellow, American Acad. of Arts and Sciences, A.A.A.S. *Leisure interests:* antique clocks, fly fishing, trap shooting. *Address:* Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, U.S.A. *Telephone:* 617-253-4662.

JOHNSON, John H.; American publisher; b. 19 Jan. 1918, Arkansas; m. Eunice Johnson; one s. one d.; ed. DuSable High School and Chicago and Northwestern Univs.; Asst. Editor 1936, later Man. Editor of employees' publication, Supreme Life Insurance Co. of America; founded Ebony 1945, Jet 1951, Black Stars, Black World, Ebony Jr.; first Negro businessman to be selected as one of the "ten outstanding young men of the year" by U.S. Jr. Chamber of Commerce 1951; accompanied Vice-Pres. Nixon at Ghana Independence celebrations 1957, appointed Special Amb. representing the U.S. at Ivory Coast Independence celebrations 1961, and Kenya Independence ceremony 1963; founder and Pres. Johnson Publishing Co. Inc.; Dir. and Chair. of Bd. Supreme Life Insurance Co.; Dir. Marina City Bank of Chicago, Service Fed. Savings and Loan Assn., Chicago, Greyhound Corpn., Zenith, Bell & Howell, Arthur

D. Little Corpn., 20th Century-Fox Corpn., United Negro Coll. Fund, etc.; Trustee, Inst. of Int. Educ., Tuskegee Inst., Howard and Fisk Univs.; Dir. Chicago Assn. of Commerce; Hon. LL.D. of several univs. and colls.; Horatio Alger Award 1966, named Publr. of the Year by Magazine Publrs.' Assn. 1972, and numerous other awards. *Address:* 820 S. Michigan Avenue, Chicago, Ill. 60605, U.S.A. (Office). *Telephone:* 312-786-7600.

JOHNSON, Joseph Esrey, PH.D.; American foundation executive (retd.); b. 30 April 1906, Longdale, Va.; s. of Joseph Esrey and Margaret Hill (Hilles) Johnson; m. Catherine D. W. Abbot 1930; [redacted] s. one d.; ed. Harvard Univ.; Instructor in History, Bowdoin Coll. 1934-35, Williams Coll. 1936-38, Asst. Prof. (Williams Coll.) 1938-47, on leave 1942-47, Prof. 1947-50; Officer, Dept. of State 1942-47, Acting Chief, Div. of Int. Security Affairs 1944-45, Chief 1945-47; Policy Planning Staff, Dept. of State 1947; Deputy U.S. Rep. Interim Comm., UN Gen. Assembly 1948; Pres. Carnegie Endowment for Int. Peace 1950-71, Pres. Emer. 1971-, Trustee 1950-76, Hon. Trustee 1976-; mem. Int. Inst. for Strategic Studies 1959-, Vice-Pres. 1965-; Special Rep. of UN Conciliation Comm. for Palestine 1961-63; Alt. U.S. Rep. 24th Session, UN Gen. Assembly; Hon. LL.D. (Williams Coll.) 1951, (Bowdoin Coll.) 1967, (Long Island) 1969. *Address:* 22 Winant Road, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 609-WA4-5836 (Home).

JOHNSON, Keith; Jamaican civil servant and diplomatist; b. 29 July 1921, Spanish Town, St. Catherine; s. of Septimus A. and Emily A. Johnson; m. Dr. Pamela E. B. Rodgers 1973; two d.; ed. Columbia Univ., New York and Univ. of London; Jamaican Civil Service 1940-48; Research Asst., Bureau of Applied Social Research, Columbia Univ. 1948; Population Div., Dept. of Econ. and Social Affairs, UN Secr. 1949-62; Consul-Gen. of Jamaica in New York 1962-67; Perm. Rep. of Jamaica to UN 1967-73; Chair. Preparatory Cttee. for UN Conf. on Human Environment; Chair. Fourth Cttee. of UN Gen. Assembly Session 1971; non-resident Amb. to Argentina 1969-73; Amb. to Fed. Repub. of Germany, also accred. to the Netherlands and Luxembourg 1973, also accred. to Israel 1975-. *Leisure interests:* listening to music, walking. *Address:* Embassy of Jamaica, 53 Bonn-Bad Godesberg, Am Kreuter 1, Federal Republic of Germany.

JOHNSON, General Leon William, M.S.; American air force officer and consultant; b. 13 Sept. 1904, Columbia, Mo.; s. of Francis Lusk Johnson and Minnie Hayward Johnson; m. Lucille Davis Taylor 1928; two d.; ed. U.S. Mil. Acad., U.S. Army Advanced Flying School, Calif. Inst. of Tech.; Army 1926; Air Force 1929; commdr. Heavy Bombardment Group and Wing in Europe 1942; Deputy Chief of Staff for personnel services, HQ, A.A.F. 1945-46; Deputy Asst. Chief of Staff for personnel HQ, U.S.A.F. 1946-47; Commanding Gen. 15th Air Force 1947-48, 3rd Air Div. and 3rd Air Force (England) 1948-52, and Continental Air Command 1952-56; U.S.A.F. Rep. Mil. Staff Cttee. UN 1952-56; U.S. Rep. Mil. Cttee. and Standing Group NATO 1956-58; Air Deputy SHAPE 1958-61; Dir. Net Evaluation Subcttee., Security Council 1961-65; Business Consultant 1966-; awarded Congressional Medal of Honor, D.S.M., Silver Star, Distinguished Flying Cross (with oak leaf cluster), Air Medal (with 3 oak leaf clusters), Legion of Merit, D.F.C. (British), Légion d'honneur, Croix de guerre. *Address:* 1129 Litton Lane, McLean, Va. 22101, U.S.A. *Telephone:* 703-356-8511.

JOHNSON, Leslie Royston; Australian politician; b. 22 Nov. 1924, Sydney; s. of W.C. Johnson and M. H. English; m. Gladys Jones 1949; one s. two d.; mem. House of Reps. for Hughes, N.S.W. 1955, 1958, 1961, 1963, 1969-; Minister of Housing 1972-73, for Housing and Construction 1973-75, of Aboriginal Affairs June-Nov. 1975; Opposition Whip March 1977-. *Leisure interests:* swimming, reading. *Address:* Parliament House, Canberra, A.C.T. (Office); 24 Mitchell Avenue, Jannali, N.S.W., Australia (Home).

JOHNSON, Livingston Basil; Bahamian lawyer; b. 20 June 1923, Exuma; m.; three c.; ed. Mount Allison Univ., New Brunswick, Canada, Gray's Inn, London, England; Civil Service 1941-45; Stipendiary and Circuit Magistrate 1955-56; Counsel, Attorney of Supreme Court of Bahama Islands 1955; Dir. Bahamas Monetary Authority 1968-72; mem. Judicial and Legal Service Comm. 1970-72; Perm. Rep. to UN 1973-78; Amb. to U.S.A. 1973-, to Philippines 1976-, to Mexico 1977-; High Commr. to Jamaica 1975-, to Canada 1975-. *Address:* Embassy of the Commonwealth of the Bahamas, 600 New Hampshire Avenue, N.W., Washington, D.C. 20037, U.S.A. *Telephone:* 202-338-3940.

JOHNSON, Pamela Hansford (Lady Snow), C.B.E., F.R.S.L.; British novelist and critic; b. 29 May 1912, London; d. of Reginald Kenneth and Amy Clotilda Johnson; m. 1st G. N. Stewart 1936; m. 2nd C. P. Snow (Lord Snow, *q.v.*) 1950; three c.; ed. Clapham County Secondary School; Arts and Letters Fellow, Timothy Dwight Coll., Yale 1961; Fellow, Center for Advanced Studies, Wesleyan Univ. 1961; Hon. D.Litt. (Temple Univ., Philadelphia, York, Toronto and Widener Coll., Chester, Pennsylvania); Hon. D.H.L. (Louisville). *Publications:* Novels include: This Bed Thy Centre 1935, World's End 1937, Winter Quarters 1944, The Trojan Brothers 1945, Too Dear for My Possessing 1940, An Avenue of Stone 1947, A Summer to Decide 1948, The Philistines 1949, Catherine Carter 1952, An Impossible Marriage 1954, The Last Resort 1956, The Unspeakable Skipton, The Humbler Creation 1959, An Error of Judgement 1962, Night and Silence, Who is Here? 1963, Cork Street, Next to the Hatter's 1965, The Survival of the Fittest 1968, The Honours Board 1970, The Holiday Friend 1972, The Good Listener 1975, The Good Husband 1978; non-fiction: Thomas Wolfe, [redacted] Critical Study 1947, I. Compton-Burnett, a Critical Essay 1951, Six Proust Reconstructions 1958, On Inquity (Social Criticism) 1967, Important to Me 1974; play: Corinth House 1948; and Proustian Reconstructions broadcast 1949-55. *Address:* c/o Macmillan Ltd., Little Essex Street, Strand, London, W.C.2; 85 Eaton Terrace, London S.W.1, England (Home).

JOHNSON, Paul (Bede), B.A.; British historian, journalist and broadcaster; b. 2 Nov. 1928, Barton; s. of William Aloysius and Anne Johnson; m. Marigold Hunt 1957; three s. one d.; ed. Stonyhurst and Magdalen Coll., Oxford; Asst. Exec. Editor, Réalités, Paris 1952-55; Asst. Editor, New Statesman 1955-60, Deputy Editor 1960-64, Editor 1965-70, Dir. 1965-; mem. Royal Comm. on the Press 1974-77; free-lance writer; Book of the Year Prize, Yorkshire Post 1975. *Publications:* The Offshore Islanders 1972, Elizabeth I: [redacted] Study in Power and Intellect 1974, Pope John XXIII 1975, A History of Christianity 1976, Enemies of Society 1977, The National Trust Book of British Castles 1978, The Civilization of Ancient Egypt 1978, Civilizations of the Holy Land 1979. *Leisure interests:* painting, mountaineering. *Address:* Copthall, Iver, Bucks., England. *Telephone:* (0753) 653-350.

JOHNSON, Philip Cortelyou, A.B.; American architect; b. 8 July 1906; ed. Harvard Univ; Dir. Dept. of Architecture and Design, Museum of Modern Art 1932-54; works include the Annexe and Sculpture Court, Museum of Modern Art, and the Glass House, New Canaan, Conn., Lincoln Center Theater; assoc. with the late Mies van der Rohe in design of Seagram Building, New York; mem. Acad. of Arts and Letters. *Publications:* The International Style, Architecture since 1922 (with H. R. Hitchcock, Jr.) 1932, Machine Art 1934, Mies van der Rohe 1947, Architecture 1949-1965 1966. *Address:* 375 Park Avenue, New York, N.Y. 10022 (Office); Ponus Street, New Canaan, Conn. 06840, U.S.A. (Home).

JOHNSON, Richard Keith; British actor; b. 30 July 1927, Upminster, Essex; s. of Keith Holcombe and Frances Louisa Olive (Tweed) Johnson; m. 1st Sheila Ann Sweet 1957 (divorced); m. 2nd Marilyn Kim Novak 1965 (divorced); two s. one d.; ed. Parkfield School, Felsted School, Royal Acad. of Dramatic Art; Nat. Theatre Player, Assoc. Artist R.S.C.; first stage appearance in Hamlet, Opera House, Manchester 1944; major parts include Marius Tertius (The First Victoria) 1950, Pierre (The Madwoman of Chaillot) 1951, Demetrius (A Midsummer Night's Dream) 1951, George Phillips (After My Fashion) 1952, Beauchamp, Earl of Warwick (The Lark) 1955, Laertes (Hamlet) 1955, Jack Absolute (The Rivals) 1956, Lord Plynlimmon (Plaintiff in [redacted] Pretty Hat) 1956, Orlando (As You Like It), Mark Antony (Julius Caesar), Leonatus (Cymbeline), Ferdinand (The Tempest), Romeo (Romeo and Juliet), Sir Andrew Aguecheek (Twelfth Night), title-role in Pericles, Don Juan (Much Ado About Nothing) 1957-58, Ferdinand (The Tempest) 1957, Romeo (Romeo and Juliet), Sir Andrew Aguecheek (Twelfth Night), Moscow and Leningrad; first film appearance in Captain Horatio Hornblower 1950; films include Never so Few 1959, The Haunting 1963, The Pumpkin Eater 1964, Operation Crossbow 1965, Khartoum 1966, Deadlier Than the Male 1966, Hennessy 1975; first appeared on TV 1949; leading roles in productions including Rembrandt, Antony and Cleopatra, Hamlet (Claudius); mem. Council British Acad. Film and Television Arts 1976-. *Publication:* Hennessy 1974. *Leisure interests:* country pursuits, gardening, music, travel. *Address:* c/o I.C.M., 22 Grafton Street, London, W.1, England. *Telephone:* 01-629 8080.

JOHNSON, U. Alexis; American diplomatist; b. 17 Oct. 1908, Falun, Kansas; s. of Carl Theodore and Ellen Forsse Johnson; m. Patricia Ann Tillman 1932; two s. two d.; ed. Occidental Coll., Los Angeles, and Georgetown Univ., Washington D.C.; entered foreign service 1935; served Tokyo 1935, Seoul 1937, Tientsin, China 1939, Seoul 1939, Manchuria 1940, Rio de Janeiro 1942, U.S. Army Civil Affairs Training Schools 1944, Manila 1945; Staff Political Adviser to SCAP, Japan 1946; Consul, Yokohama 1946; Deputy Dir. Office N.E. Asian Affairs, Dept. of State 1949-51, Dir. 1951; Deputy Asst. Sec. of State for Far-Eastern Affairs 1951-53; Amb. to Czechoslo-

vakia 1953-58; U.S. Rep. Geneva Conf. June-July 1954, and in subsequent talks with People's Repub. of China 1955-57; Amb. to Thailand 1958-61; Deputy Under-Sec. of State for Political Affairs 1961-64; Deputy Amb. to Republic of Viet-Nam 1964-65; Deputy Under-Sec. of State for Political Affairs 1965-66; Amb. to Japan 1966-69; Under-Sec. of State for Political Affairs 1969-73; U.S. Envoy to SALT 1973-77; Consultant to Depts. of State and Defence; Adjunct Prof. of Int. Relations, Sino-Soviet Inst., George Washington Univ.; President's Award for Distinguished Fed. Civilian Service; Dept. of Defence Medal for Distinguished Public Service, Dept. of State Distinguished Honor Award, Medal of Freedom, Career Service Award of Nat. Civil Service League, Rockefeller Public Service Award. *Leisure interest:* golf. *Address:* 3133 Connecticut Avenue, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* 234-3549.

JOHNSON, Uwe; German writer; b. 20 July 1934, Kamień Pomorski; s. of Erich Johnson and Erna Ströde; m. Elisabeth Schmidt 1962; one d.; resident in German Dem Repub. 1949-59, in W. Berlin 1959-74, England 1975-; Fontane Prize 1960, Int. Publishers' Assen. Prize 1962, Büchner Prize 1971, Raabe Prize 1974, Thomas Mann Prize 1979. *Publications:* Mutmassungen über Jakob 1959, Das dritte Buch über Achim 1961, Karsch, und andere Prosa 1964, Zwei Ansichten 1965, Jahrestage 1970, Eine Reise nach Klagenfurt 1974. *Address:* c/o Suhrkamp Verlag, Postfach 4229, 6000 Frankfurt/Main, Federal Republic of Germany.

JOHNSON, Walter, PH.D.; American university professor; b. 27 June 1915; ed. Dartmouth Coll. and Univ. of Chicago; Instructor Univ. of Chicago 1940-43, Asst. Prof. 1943-49, Assoc. Prof. 1949-50, Prof. and Chair. Dept. of History 1950-66, Preston and Sterling Morton Prof. of History 1963-66; Writing Fellow Newberry Library of Chicago 1945; Dir. of Edward R. Stettinius Manuscripts 1948-49; Chair. Fulbright Bd. of Foreign Scholarship 1950-53; accompanied Gov. Adlai Stevenson on world tour 1953; Harmsworth Prof. of American History, Oxford Univ. 1958-59; Prof. of History, Univ. of Hawaii 1966-. *Publications:* Battle against Isolation 1944, William Allen White's America 1947, Selected Letters of William Allen White (Editor) 1947, United States' Experiment in Democracy (co-author) 1947, How We Drafted Adlai Stevenson 1955; Editor: Roosevelt and the Russians: The Yalta Conference, by Edward R. Stettinius 1949; Turbulent Era, by Joseph C. Grew, 1900 Pennsylvania Avenue 1960; Editor: The Papers of Adlai E. Stevenson 1966, (8 vols.) 1971-77. *Address:* University of Hawaii, 2444 Dole Street, Honolulu, Hawaii 96822, U.S.A.

JOHNSON, Warren C., PH.D.; American chemist; b. 22 Sept. 1901; ed. Kalamazoo Coll., Clark and Brown Univs; research Instructor in Chem., Brown Univ. 1925-27; Instructor in Chem., Univ. of Chicago 1927-28, Asst. Prof. 1928-32, Assoc. Prof. 1932-43, Prof. 1943-68, Chair. Dept. of Chem. 1945-55, Assoc. Dean, Physical Sciences Div. 1946-55, Dean 1955-59, Vice-Pres. 1958-67, Vice-Pres. Emer 1967-; Dir. Chem. Div., Clinton Labs., Oak Ridge, Tenn. 1943-45; Dir. Oak Ridge Inst., Nuclear Studies 1953-59, 1961-67, Consultant 1967-; Chair. Man. Advisory Council, Oak Ridge Nat. Lab. 1962-70; Chair. Section 9-3 of Nat. Defense Research Cttee. 1940-43; Consultant U.S. Atomic Energy Comm.; mem. Gen. Advisory Cttee., Atomic Energy Comm.; Fellow, A.A.A.S., American Nuclear Soc. (Dir. 1961-64); mem. American Chemical Soc.; Hon. D.Sc. (Kalamazoo Coll. and Brown Univ.); U.S. Atomic Energy Comm. Citation 1961. *Publications:* Qualitative Analysis and Chemical Equilibrium 1937, Ionic Equilibrium as Applied to Qualitative Analysis 1941, An Introduction to Qualitative Analysis 1957. *Address:* 945 Bellclaire Road South East, Grand Rapids, Mich. 49506, U.S.A. (Home).

JOHNSON, William Summer, PH.D.; American professor of chemistry; b. 24 Feb. 1913, New Rochelle, N.Y.; s. of Roy Wilder Johnson and Josephine (Summer) Johnson; m. Barbara Allen 1940; ed. Amherst Coll. and Harvard Univ.; Research Chemist, Eastman Kodak Co. summers of 1936-39; Instructor Amherst Coll. 1936-37; Instructor, Univ. of Wisconsin 1940-42, Asst. Prof. 1942-44, Assoc. Prof. 1944-46, Prof. 1946-54, Homer Adkins Prof. of Chem. 1954-60; Visiting Prof. Harvard Univ. 1954-55; Prof. and Exec. Head of Dept. of Chem., Stanford Univ. 1960-69, Prof. of Chem. 1969-, J. G. Jackson-C. J. Wood Prof. of Chem. 1975-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Chemical Soc., Swiss Chemical Soc.; Fellow, London Chemical Soc.; American Chemical Soc. Award for Creative Work in Synthetic Organic Chem. 1958, Synthetic Organic Chemical Mfg. Award for Creative Research in Organic Chem. 1963, New York Section of American Chemical Soc. Nichols Medal 1968, Roussel Prize 1970, Roger Adams Award 1977. *Publications:* Scientific articles on synthesis and correlation of natural products, particularly steroids and related compounds. *Address:* Department of Chemistry, Stanford University, Stanford, Calif. 94305 (Office); 191 Meadowood Drive, Portola Valley, Calif. 94025, U.S.A. (Home). *Telephone:* 415-497-2784 (Office); 415-851-7886 (Home).

JOHNSTON, Allen Howard, C.M.G., L.TH., LL.D.; New Zealand ecclesiastic; b. 1 Sept. 1912, Auckland; s. of Joseph Howard Johnston and Clara Johnston; m. Joyce Rhoda Grantley 1937; four d.; ed. Univ. of Auckland, St. John's Coll., Auckland; Asst. Curate in Anglican Church, St. Mark's, Remuera 1935; Vicar of Northern Wairoa 1937, of Otahuhu 1944, of Whangarei 1949; Archdeacon of Waimate 1949; Bishop of Dunedin 1953, Waikato 1969-; Primate and Archbishop of New Zealand 1972-; Chaplain and Sub-Prelate, Order of St. John of Jerusalem 1974-; Fellow of St. John's Coll., Auckland; Hon. LL.D. (Otago). *Leisure interest:* gardening. *Address:* Bishop's House, 3 Wymer Terrace, P.O. Box 21, Hamilton, New Zealand. *Telephone:* 82-309 (Office); 53-238 (Home).

JOHNSTON, Sir Charles Hepburn, G.C.M.G.; British diplomatist, writer and company director; b. 11 March 1912; m. Princess Natasha Bagration 1944; ed. Winchester and Balliol Coll., Oxford; entered Diplomatic Service 1936, Third Sec., Tokyo 1939; First Sec., Cairo 1945, Madrid 1948; Counsellor, Foreign Office 1951, Bonn 1955; Amb. to Jordan 1956-60; Gov. and C.-in-C. Aden 1960-63; High Commr. in Aden and Fed. of S. Arabia 1963; Deputy Under-Sec. in charge of Econ. Affairs, Foreign Office 1963-65; High Commr. in Australia 1965-71; Chair. Thames Estuary Devt. Corpn. 1971-73, Maplin Devt. Corpn. 1971-73, Australian Estates 1974-75; mem. Lloyd's 1962, Council of Toynbee Hall 1974. *Publications:* The View from Steamer Point 1964, Mo and Other Originals 1971, The Brink of Jordan 1972, Estuary in Scotland and other poems 1974, Eugene Onegin (trans. from Pushkin) 1977. *Address:* 32 Kingston House South, London, S.W.7, England.

JOHNSTON, Denis (*see* Johnston, William Denis).

JOHNSTON, Don, M.A.; American advertising executive; b. 9 March 1927; s. of George D. Johnston and Isabella Mann Johnston; m. Sarita Behar Villegas 1954; three s.; ed. Michigan State and Johns Hopkins Univs; with J. Walter Thompson Co. 1951-, Trainee 1951, Asst. Account Rep., New York 1952, Rep. Bogotá 1953, Account Rep., Account Supervisor, New York 1956, Man. Dir. Amsterdam 1961, Tokyo 1964, Vice-Pres. Europe, Frankfurt 1966, Vice-Pres. Europe, London 1967, Sr. Vice-Pres. Europe, London 1969, Sr. Vice-Pres. Latin America and Sr. Vice-Pres. Admin. and Planning, New York 1971, Exec. Vice-Pres. Int. 1972, Dir. 1972, Pres. and Chief Exec. Officer Aug. 1974-. *Leisure interests:* tennis, guitar. *Address:* 33 Woodridge Drive, New Canaan, Conn. 06840, U.S.A. *Telephone:* (203) 972-0309.

JOHNSTON, Harold S., PH.D.; American professor of chemistry; b. 11 Oct. 1920, Woodstock, Ga.; s. of Smith L. Johnston and Florine Dial; m. Mary Ella Stay 1948; one s. three d.; ed. Emory Univ., Ga. and Calif. Inst. of Tech.; Instructor, Stanford Univ. 1947-49, Asst. Prof. 1949-53, Assoc. Prof. 1953-56; Assoc. Prof. Calif. Inst. of Tech. 1956-57; Visiting Asst. Prof., Univ. of Calif. at Berkeley 1953, Prof. of Chem. 1957-, Dean Coll. of Chem. 1966-70; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Chemical Soc., American Physical Soc.; Hon. D.Sc. (Emory Univ); Gold Medal, Calif. Section of American Chemical Soc., Pollution Control Award of American Chemical Soc. 1974. *Publications:* Gas Phase Reaction Rate Theory 1966, Gas Phase Kinetics of Neutral Oxygen Species 1968, Catalytic Reduction of Stratospheric Ozone by Nitrogen Oxide Catalysts from Supersonic Transport Exhaust 1971. *Leisure interests:* gardening, astronomy. *Address:* College of Chemistry, University of California, Berkeley, Calif. 94720 (Office); 132 Highland Boulevard, Berkeley, Calif. 94708, U.S.A. (Home).

JOHNSTON, Sir John (Baines), G.C.M.G., K.C.V.O.; British diplomatist (retd.); b. 13 May 1918; m. Elizabeth Mary Crace 1962, one s.; ed. Banbury Grammar School and Queen's Coll., Oxford; Army service 1940-46; Asst. Principal, Colonial Office 1947, Principal 1948; Asst. Sec. West African Council, Accra 1950-51; U.K. Liaison Officer, Comm. for Tech. Co-operation in Africa South of the Sahara 1952; Principal Private Sec. to Sec. of State for Colonies 1953, Asst. Sec. 1956, Head of Far Eastern Dept., Colonial Office 1956; transferred to Commonwealth Relations Office 1957, Deputy High Commr. in S. Africa 1959-61; High Commr. in Sierra Leone 1961-63, in Fed. of Rhodesia and Nyasaland 1963, in Rhodesia 1964-65; Asst. Under-Sec. of State, Commonwealth Office 1966-68, Deputy Under-Sec. of State, Foreign and Commonwealth Office 1968-71; High Commr. in Malaysia 1971-74, in Canada 1974-78; mem. BBC Bd. of Govs. *Address:* 5 Victoria Road, Oxford OX2 7QF, England.

JOHNSTON, J(ohn) Bennett, Jr.; American politician; b. 10 June 1932, Shreveport, La.; s. of J. Bennett Johnston; m. Mary Gunn; two s. two d.; ed. Byrd High School, Washington and Lee Univ., U.S. Mil. Acad. and Louisiana School of Law; Mil. service in Judge Advocate Gen. Corps La.; State Senator 1968-72; U.S. Senator from Louisiana 1972-; Chair. Democratic Senatorial Campaign Cttee. 1975-76; mem. Senate Cttee. on Energy and Natural Resources, on Appropriations, Senate Budget Cttee., mem. Senate Bldg. Cttee.; Democrat. *Leisure interest:* tennis. *Address:* 421 Russell Senate Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* 202-224-5824.

JOHNSTON, (William) Denis, O.B.E., M.A., LL.M.; Irish barrister-at-law, broadcaster and dramatist; b. 18 June 1901, Dublin; s. of Hon. William John Johnston and Kathleen King; m. 1st Shelah Richards 1928; m. 2nd Betty Chancellor 1945; three s. one d.; ed. St. Andrew's Coll., Dublin, Merchiston Castle School, Edinburgh, Christ's Coll., Cambridge, and Harvard Law School, U.S.A.; Barrister-at-Law, Inner Temple and King's Inns; Dir. Dublin Gate Theatre 1931-35; BBC Feature Programme writer and producer 1936; BBC War Corresp. Middle East, Italy, France and Germany 1942-45, mentioned in Despatches 1945; TV Programme Dir. 1946-47; Prof. of English, Mount Holyoke Coll., U.S.A. 1950-61; Chair., Theatre Dept., Smith Coll., U.S.A. 1961-66; Visiting Prof. Amherst Coll. 1966-67, Univ. of Iowa 1967-68, Univ. of Calif. (Davis) 1970-71, Berg Prof. New York Univ. 1971-72; Arnold Prof. Whitman Coll., Wash. 1972-73; Guggenheim Fellow 1955; Yugoslav Commemorative Victory Medal, Irish Banks' Annual Award for Irish Literature 1977. *Plays:* (with dates of production): The Old Lady Says "No" 1929, The Moon in the Yellow River 1931, A Bride for the Unicorn 1933, Storm Song 1934, The Golden Cuckoo 1939, The Dreaming Dust 1946, A Fourth for Bridge 1949, Strange Occurrence on Ireland's Eye 1956, The Scythe and the Sunset 1958, Nine Rivers from Jordan (autobiography) 1953, In Search of Swift 1959 (biography), John Millington Synge 1965, The Brazen Horn 1968, The Dramatic Works of Denis Johnston (Vol. 1) 1977, (Vol. II) 1979; Librettos for operatic versions of Six Characters in Search of an Author 1958, and Nine Rivers from Jordan 1968. *Leisure interest:* sailing. *Address:* 8 Sorrento Terrace, Dalkey, Co. Dublin, Ireland. *Telephone:* 803986.

JOHORE, H.R.H. The Sultan of; Tunku Ismail ibni al-Marhum Sultan Ibrahim, D.K., D.M.N., S.M.N., S.P.M.J., S.P.M.K., D.K. (Brunei), K.B.E., C.M.G., D.K. (Pahang); Malaysian ruler; b. 28 Oct. 1894, Johore Bahru; s. of Sultan Ibrahim Ibni Sultan Abu Bakar and Ungku Maimunah Binte Ungku Abdul Majid; m. Ungku Tun Aminah Binte Ungku Ahmad 1920; two s. one d.; Col. Commdt., Johore Mil. and Volunteer Services; succeeded his father, Sultan Ibrahim, May 1959; several foreign decorations. *Leisure interests:* zoology, horses, motor cars. *Address:* Istana Bukit Serene, Johore Bahru, Johore, Malaysia. *Telephone:* JB 2000.

JOLIVET, Henri; French engineer and business executive; b. 8 June 1904; ed. Ecole Nationale Supérieure des Mines de Saint-Etienne; Vice-Pres. Péchiney Ugine Kuhlmann 1972-75; Pres. Société des Tôles Spéciales et Ugine-Guegnon 1958-75; Dir. Groupement Industrie Sidérurgique (GIS) 1966-74; Officier, Légion d'honneur. *Address:* 10 rue du Général Foy, 75008 Paris, France.

JONATHAN, Chief (Joseph) Leabua; Lesotho politician; b. 30 Oct. 1914; ed. Mission School, Leribe; worked in mines in South Africa 1934-37; returned to Basutoland 1937; Court Pres. 1938; entered politics 1952; mem. District Council 1954; mem. Nat. Council 1954, mem. Panel of 18 1956-59; founded Basutoland Nat. Party 1959, leader 1959-; mem. Legis. Council 1960-64; Del. at Constitutional Conf. 1964; Prime Minister of Basutoland (now Lesotho) 1965-, and also Minister of The Public Service, of External Affairs 1965-71, of Defence 1965-, of the Civil Service 1965-68, 1969-70, of Internal Security 1968-, of Devt. and Planning 1968-74, of Citizenship, Training and Statistics 1969-70, and Chief of Electoral Affairs 1971-. *Address:* Prime Minister's Office, P.O. Box 527, Maseru, Lesotho.

JONCKHEER, Efrain; Netherlands (Antilles) politician; b. 1917; ed. in Netherlands Antilles; Dir. of several cos. in Curaçao; first Pres. Dem. Party 1944; mem. of all Round Table Confs. leading to full autonomous status of Netherlands Antilles 1947-54; mem. Staten (legis. ass.) 1945-; Leader Dem. Party Group in Staten 1945-54; mem. Island Council of Curaçao 1951-53; Prime Minister of Netherlands Antilles and Minister of Gen. Affairs 1954-67; Minister of Transport and Communications 1954-56; Minister of Social Affairs 1956-57; Minister Plenipotentiary for the Netherlands Antilles at The Hague 1968-70; Netherlands Amb. to Venezuela 1971-76, to Costa Rica, also accred. to Nicaragua and Panama 1976-; Commdr., Order of Orange-Nassau. *Address:* Royal Netherlands Embassy, Calle 21, Avda. 10, Apdo. 10.285, San José, Costa Rica.

JONES, Allen; British artist; b. 1 Sept. 1937, Southampton; s. of William and Madeline Jones; m. Janet Bowen; two d.; ed. Hornsey School of Art, Royal Coll. of Art; Sec., Young Contemporaries, London 1961; lived in New York 1964-65; Tamarind Lithography Fellowship, Los Angeles 1966; Guest Prof. Dept. of Painting, Univ. of S. Florida 1969; Hochschule für Bildende Künste, Hamburg 1968-70; Guest Lecturer Univ. of Calif. 1977; first one-man exhbn., London 1963, one-man exhbns. in U.K., U.S.A., Switzerland, Fed. Repub. of Germany, Italy, Australia, Japan, Netherlands, Belgium, Austria, Scandinavia 1963-; many group exhbns. of paintings and graphic work; tours in Mexico, Canada 1975; designs for TV and stage in Fed. Repub. of Germany and U.K.; Prix des Jeunes Artistes, Paris Biennale 1963. *Publications:* Allen Jones Figures 1969, Allen Jones Projects 1971, Waitress 1972, Ways and Means 1977. *Address:* c/o Leslie Waddington Gallery, 1 Cork Street, London, W.1, England.

JONES, Rt. Hon. Aubrey, B.SC.; British economist and industrialist; b. 20 Nov. 1911, Merthyr Tydfil; s. of Evan and Margaret Aubrey Jones; m. Joan Godfrey-Isaacs 1948; two s.; ed. London School of Econs; on foreign and editorial staff The Times 1937-39 and 1947-48; served with Army Intelligence Staff, War Office and Mediterranean 1940-46; joined British Iron and Steel Fed. as Special Asst. to Chair. 1949, Econ. Dir. 1954 and Gen. Dir. 1955; M.P. for Birmingham (Hall Green) 1950-65; Minister of Fuel and Power 1955-57; Minister of Supply 1957-59; fmr. Dir. Guest, Keen & Nettlefolds Steel Co. Ltd., fmr. Chair. Staveley Industries Ltd., fmr. Dir. Courtaulds Ltd.; Chair. Nat. Bd. for Prices and Incomes 1965-70; Chair. Laporte Industries (Holdings) Ltd. 1970-72; Dir. Thomas Tilling Ltd. 1970-, Inbucon Int. Ltd. 1975-, Black and Decker Ltd. 1977-; Dir. Cornhill Insurance Co. Ltd. 1971-, Chair. 1971-73; Hon. Fellow, L.S.E. 1959, mem. Court of Govs. 1964; Hon. Fellow Commoner, Churchill Coll., Cambridge 1972-73; Visiting Fellow, New Coll. Oxford 1978; Gov. Nat. Inst. Econ. and Social Research 1967; Hon. Vice-Pres. Consumers' Assn. 1967-72; Adviser to Public Service Review Comm. of Nigerian Govt. 1973-74; mem. Int. Council for Settlement of Investment Disputes, Washington D.C. 1974-; Leading Adviser to Iranian Govt. on Agricultural Devt. Plan 1974-75; UN Adviser to Iranian Govt. on Public Sector Problems 1975-79, on Productivity, Prices and Incomes 1976-79; Pres. Oxford Energy Policy Club 1977-. *Publications:* The Pendulum of Politics 1946, Right and Left 1944, Industrial Order 1950, The New Inflation—The Politics of Prices and Incomes 1973. *Leisure interests:* sailing, skiing. *Address:* 4 Plane Tree House, Duchess of Bedford's Walk, London, W8 7QT, England. *Telephone:* 01-937 4247.

JONES, Gen. David Charles, D.F.C.; American air force officer; b. 9 July 1921, Aberdeen, S. Dak.; s. of Maurice Jones and Helen Meade; m. Lois M. Tarbell 1942; one s. two d.; ed. Univ. of North Dakota and Minot State Coll., N. Dak., U.S.A.F. Flying School, Nat. War Coll.; Commdr. 22nd Air Refueling Squadron 1953-54, 33rd Bomb Squadron 1954; Operations Planner, Bomber Mission Branch, HQ Strategic Air Command Sept.-Dec. 1954, Aide to C.-in-C., SAC 1955-57; Dir. of Material, later Deputy Commdr. for Maintenance, 93rd Bomb Wing 1957-59; Chief, Manned Systems Branch, Deputy Chief and later Chief, Strategic Div., DCS/Operations, HQ U.S.A.F. 1960-64; Commdr. 33rd Tactical Fighter Wing March-Oct. 1965; Insp.-Gen. HQ United States Air Forces in Europe 1965-67, Chief of Staff Jan.-June 1967, Deputy Chief of Staff, Plans and Operations 1967-69; Deputy Chief of Staff, Operations, HQ 7th Air Force, Repub. of Viet-Nam 1969, Vice-Commdr. 7th Air Force, Tan Son Nhut Airfield, Repub. of Viet-Nam 1969; Commdr. 2nd Air Force 1969-71; Vice-C.-in-C. U.S.A.F.E., later C.-in-C. U.S.A.F.E. and Commdr. 4th Allied Tactical Air Forces, Ramstein Air Base, Fed. Repub. of Germany 1971-74; Chief of Staff, United States Air Force 1974-78, Chair. Jt. Chiefs of Staff July 1978-; Hon. D. Hum. Litt. (Nebraska) 1974; Hon. D. Laws (Louisiana Tech. Univ.) 1975; Distinguished Service Medal with Oak Leaf Cluster; Legion of Merit; Commdr., Légion d'honneur 1975; Grand Cross with Star and Shoulder Band, Fed. Repub. of Germany, Nat. Order of Security, Rep. of Korea, Venezuela A.F. Cross (1st Class), Knight of the Grand Cross, Italy, and many other decorations. *Leisure interests:* jogging, sport, flying, historical novels. *Address:* The Pentagon, Washington, D.C. 23001, U.S.A.

JONES, (Everett) Le Roi (Imamu Baraka); American poet and dramatist; b. 7 Oct. 1934, Newark, N.J.; s. of Coyette L. Jones and Anna Lois (Russ) Jones; ed. Howard Univ., New School and Columbia Univ.; served with U.S.A.F.; taught poetry at New School Social Research, drama at Columbia Univ., literature at Univ. of

Buffalo; Visiting Prof., San Francisco State; began publishing 1958; founded Black Arts Repertory Theater School, Harlem 1964, Spirit House, Newark 1966; Whitney Fellowship 1963, Guggenheim Fellowship 1965; Fellow, Yoruba Acad. 1965; mem. Int. Co-ordinating Cttee. of Congress of African Peoples; mem. Black Acad. of Arts and Letters. *Publications:* Preface to ■ Twenty Volume Suicide Note 1961, Dante 1962, Blues People 1963, The Dead Lecturer 1963, Dutchman 1964, The Moderns 1964, The System of Dante's Hell 1965, Home 1965, Jello 1965, Experimental Death Unit 1965, The Baptism—The Toilet 1966, Black Mass 1966, Mad Heart 1967, Slave Ship 1967, Black Music 1967, Tales 1968, Great Goodness of Life 1968, Black Magic, Four Black Revolutionary Plays 1969, Black Art 1969, In Our Terribleness 1970, Junkies are Full of Shhh . . ., Bloodrites 1970, Raise 1971, It's Nation Time 1971, Kawaida Studies 1972, Spirit Reach 1972, African Revolution 1973; ed. Hard Facts 1976. *Address:* c/o Lord Agency, 105 Madison Avenue, New York, N.Y. 10017, U.S.A.

JONES, Sir Ewart Ray Herbert, Kt., F.R.S., F.R.I.C., D.SC., PH.D.; British professor of chemistry (retd.); b. 16 March 1911, Wrexham, Denbighs.; m. Frances Mary Copp 1937; one s. two d.; ed. Grove Park School, Univ. Coll. of North Wales, Univ. of Manchester; Fellow, Univ. of Wales 1935-37; Lecturer, Imperial Coll. of Science and Tech. 1938; Reader in Organic Chem. and Asst. Prof., Univ. of London 1945; Sir Samuel Hall Prof. of Chem., Manchester Univ. 1947-55; Arthur D. Little Visiting Prof. of Chem., Mass. Inst. of Tech. 1952; Waynflete Prof. of Chem., Oxford Univ. 1955-78; Karl Folkers Lecturer, Univs. of Illinois and Wisconsin 1957; Pedler Lecturer 1959; mem. Council for Scientific and Industrial Res. and Chair. Research Grants Cttee. 1961-65; mem. Science Research Council and Chair. Univ. Science and Tech. Bd. 1965-69; Pres. Chemical Soc. 1964-66; Fellow, Imperial Coll. 1967; Pres. Royal Inst. of Chem. 1970-72; mem. Council of Royal Soc. 1969-71; Foreign mem. American Acad. of Arts and Sciences; Hon. D.Sc. (Birmingham, Nottingham, New South Wales, Sussex, Salford, East Anglia, Ulster); Hon. LL.D. (Manchester); Meldola Medal, Royal Inst. of Chem. 1940, Fritzsche Award, American Chemical Soc. 1962. *Publications:* scientific papers in Journal of The Chemical Society. *Address:* Dyson Perrins Laboratory, South Parks Road, Oxford, OX1 3QY (Office); 6 Sandy Lane, Yarnton, Oxford, England (Home). *Telephone:* Oxford 59601 (Office); Kidlington 2581 (Home).

JONES, Geraint Iwan; British conductor, organist and harpsichordist; b. 16 May 1917, Porth, Glamorgan; s. of Evan Jones and Caroline Davies; m. 1st M. A. Kemp 1940; m. 2nd Winifred Roberts 1949; one d.; ed. Caterham School and Royal Acad. of Music; concert organist, Nat. Gallery Concerts 1940-44; Conductor, Purcell's Dido and Aeneas, Mermaid Theatre 1950-53; Founder, Geraint Jones Singers and Orchestra 1951; Musical Dir. Lake District Festival 1960-, Kirckman Concert Soc. 1963-; Artistic Dir. Salisbury Festival of the Arts 1972-77, Manchester Int. Organ Festival 1977-; Prof., Royal Acad. of Music; Grand Prix du Disque 1959 and 1966. Frequent harpsichord recitals with violinist wife Winifred Roberts; frequent tours of Europe and America 1948-; complete organ works of Bach in London 1945-46 and 1955; has recorded on most historic organs in Europe. *Leisure interests:* photography, antiques, architecture, motoring. *Address:* The Long House, Arkley Lane, Barnet Road, Arkley, Herts., England.

JONES, Gilbert E.; American computers executive (retd.); b. 8 Jan. 1917, Convent, N.J.; m. Jean C. Morse 1942; one s. three d.; ed. Harvard Univ; Sales Rep. Int. Business Machines Corpn. 1938-42; served U.S. Navy 1942-45; rejoined IBM 1945, Exec. Asst. to Pres. 1953-56; Sales Man. 1956-59; Pres. IBM Data Processing Div. 1959-61, Exec. Vice-Pres., mem. Bd. of Dirs. and Exec. Cttee. 1962; Pres. IBM World Trade Corpn., Vice-Pres. and Group Exec., IBM Corpn. 1963; Sr. Vice-Pres. and mem. Man. Cttee. 1967; Chair. Man. Cttee. 1969-70; mem. Bd. of Dirs. IBM Corpn. Jan. 1970-; Chair. Bd. and Exec. Cttee. IBM World Trade Corpn. 1976; mem. Corp. Office IBM 1972-76, Vice-Chair. 1974-76; Dir. Continental Oil Co.; mem. Bd. of Trustees U.S. Trust Co.; mem. Bd. of Trustees and Exec. Cttee. U.S. Council, Int. Chamber of Commerce. *Address:* IBM World Trade Corporation, 821 United Nations Plaza, New York, N.Y. 10017, U.S.A.

JONES, Gwyneth, C.B.E., F.R.C.M.; British soprano; b. 7 Nov. 1936, Pontnewynydd, Mon., Wales; d. of Edward George Jones and Violet Webster; m. Till Haberfeld; one d.; ed. Royal Coll. of Music, London, Accad. Chigiana, Siena, Zürich Int. Opera Centre; with Zürich Opera House 1962-63; with Royal Opera House, Covent Garden 1963-; Vienna State Opera House 1966-; guest performances in numerous opera houses throughout the world including La Scala, Milan, Rome Opera, Berlin State Opera, Munich State Opera, Hamburg, Paris, Metropolitan Opera, New York, San Francisco, Los Angeles, Zürich, Geneva, Dallas, Chicago, Teatro Colón, Buenos Aires, Tokyo, Bayreuth Festival, Edinburgh Festival and Welsh Nat. Opera; Kammersängerin in Austria and Bavaria; known for many opera roles including Leonara, Il Trovatore, Desdemona, Otello, Aida, Aida (Verdi), Leonore, Fidelio (Beethoven), Senta, Der fliegende Holländer (Wagner), Medea, Medea (Cherubini), Sieglinde, Die Walküre (Wagner), Lady Macbeth, Macbeth (Verdi), Elizabeth, Don Carlos (Verdi), Madame Butterfly (Puccini), Tosca (Puccini), Donna Anna, Don Giovanni (Mozart), Salome (R. Strauss), Kundry, Parsifal (Wagner), Aegyptische Helena, Helena (R. Strauss), Elizabeth/Venus, Tannhäuser (Wagner), Marschallin, Der Rosenkavalier (R. Strauss), Brünnhilde, Der Ring des Nibelungen (Wagner); TV films: Fidelio, Aida, Flying Dutchman, Beethoven 9th Symphony, Tannhäuser, Poppea (Monteverdi); recordings for Decca, DGG, EMI, CBS. *Address:* P.O. Box 380, 8040 Zürich, Switzerland.

JONES, Sir Henry Frank Harding, G.B.E., M.A., F.I.C.E., F.I.CHEM.E.; British engineer; b. 13 July 1906, London; s. of Frank Harding Jones and Gertrude Kimber; m. Elizabeth Langton 1934; three s. one d.; ed. Harrow School and Pembroke Coll., Cambridge; Army Service 1939-45; fmr. Deputy Chair. Watford and St. Albans Gas Co., Wandsworth and District Gas Co.; fmr. Dir. S. Metropolitan, S. Suburban and other gas cos.; Chair. E. Midlands Gas Bd. 1949-52; Deputy Chair. Gas Council 1952-60, Chair. 1960-71; Vice-Chair. World Energy Conf. 1970-73, Hon. Vice-Chair. 1973-; Hon. Fellow, Inst. of Gas Engineers, Pres. 1956-67; Hon. D.Sc. (Salford) 1971, Hon. LL.D. (Leeds) 1967, Hon. D.Sc. (Leicester) 1970; Birmingham Medal, Inst. of Gas Engineers 1964. *Leisure interests:* reading, gardening, fishing. *Address:* Pathacres, Weston Turville, Aylesbury, Buckinghamshire, England.

JONES, Horace C.; American business executive; b. 1916, Philadelphia, Pa.; m. Helen Allen; seven c.; ed. Hill School, Pottstown, Pa., Princeton Univ; served with U.S. Army Air Force Second World War, with rank of Lieut.-Col.; Asst. Treas., Lees Carpets 1938, Pres. 1960-70 (became division of Burlington Industries Inc. 1960); Dir. Burlington Industries Inc. 1960, Exec. Vice-Pres. 1967, Vice-Chair. 1972, Pres. 1973-75, Chief Exec. Officer 1973-76, Chair. April 1975-76, Chair. Exec. Finance Cttee. Sept. 1976-. *Address:* Burlington Industries Inc., Greenboro, N.C. 27420, U.S.A.

JONES, Howard Mumford, M.A.; American university professor and author; b. 16 April 1892, Saginaw, Mich.; s. of Frank Alexander Miles Jones and Josephine Whitman; m. 1st Clara Edgar McLure 1918; m. 2nd Bessie J. Zaban 1927; one d.; ed. Univs. of Wisconsin and Chicago; Adjunct Prof. of Gen. Literature and English, Univ. of Texas 1916-17; Asst. Prof. of English, State Univ. of Montana 1917-19; Assoc. Prof. of Comparative Literature, Univ. of Texas 1919-25; Assoc. Prof. of English, Univ. of North Carolina 1925-30; Prof. of English, Univ. of Michigan 1930-36; Prof. of English, Harvard Univ. 1936-62, Emer. 1962-; Dean Graduate School of Arts and Sciences 1943-44; Abbot Lawrence Lowell Prof. of the Humanities 1960; Chair. American Council of Learned Socs. 1955-59; Editor-in-Chief John Harvard Library 1959-62; Guggenheim Fellow 1964-65; Research Assoc. Henry E. Huntington Library; mem. American Acad. of Arts and Sciences (Pres. 1944-51); Fellow Center for Advanced Studies in Behavioral Sciences 1957-58; Weil Lecturer 1967; numerous hon. degrees; Jusserand and Hubbell Medals, Pulitzer Prize 1964, Jaffe Medal, Phi Beta Kappa (triennial award) 1973. *Publications:* A Little Book of Local Verse 1915, Gargoyles (poems) 1918, The Shadow (play) 1917, A Bibliography of Works and MSS. of Byron (with R. H. Griffith) 1924, America and French Culture (1750-1848) 1927, The Romanesque Lyric (with P. S. Allen) 1928, The Life of Moses Coit Tyler 1933, They Say the Forties 1937, The Harp That Once 1937, Ideas in America 1944, Education and World Tragedy 1946, The Theory of American Literature 1948, The Bright Medusa 1952, The Pursuit of Happiness 1953, The Frontier in American Fiction, American Humanism 1957, Reflections on Learning 1958, One Great Society 1959, Guide to American Literature Since 1890 1959, History and The Contemporary 1964, O Strange New World 1964, Jeffersonianism and the American Novel 1966, Belief and Disbelief in American Literature 1967, The Literature of Virginia in the Seventeenth Century 1968, Violence and Reason 1969, The Age of Energy 1971, Revolution and Romanticism 1974, The Many Voices of Boston 1975. *Leisure interest:* work. *Address:* Harvard University, Cambridge, Mass. 02138, U.S.A.

JONES, James Larkin (Jack), C.H., M.B.E.; British trade unionist; b. 29 March 1913, Liverpool; s. of George and Anne Sophie Jones; m. Evelyn Mary Taylor 1938; two s.; ed. Liverpool; worked in eng. and dock industries 1927-39; served in Spanish Civil War; Midlands Official, Transport and Gen. Workers' Union 1939-63, Exec. Officer 1963-69, Gen. Sec. 1969-78; District Sec. Confed. of

Shipbuilding and Eng. Unions 1939-63; mem. Labour Party Nat. Exec. Cttee. 1964-67; Deputy Chair. Nat. Ports Council 1967-; mem. Council, Trades Union Congress 1968-78; Chair. Int. Cttee., TUC 1972-78; mem. Exec. Bd. Int. Confed. of Free Trade Unions, European Trade Union Confed., British Overseas Trade Bd. 1975-78, Advisory, Conciliation and Arbitration Service 1978, Crown Agents 1978-; mem. Royal Comm. on Criminal Procedure 1978; mem. NEDC 1969-78; mem. Econ. and Social Cttee., EEC 1975-78; Pres. Retd. Mems. Asscns., T.G.W.U. 1978-; Vice-Pres. Int. Transport Workers Fed. 1974-78; Vice-Chair. Age Concern (England); Fellow, Nuffield Coll., Oxford 1970-78, Chartered Inst. of Transport 1971; Assoc. Fellow L.S.E. 1978; Dimbleby Lecture, BBC-TV 1977. *Leisure interests:* walking, painting. *Address:* Transport House, Smith Square, London, S.W.1 (Office); 74 Ruskin Park House, Champion Hill, London, S.E.5, England (Home). *Telephone:* 01-828 7788 (Office); 01-274 7007 (Home).

JONES, Le Roi (*see* Jones, (Everett) Le Roi).

JONES, Norman William, F.I.B.; British banker; b. 5 Nov. 1923, Chorlton-cum-Hardy; s. of late James William and of Mabel Jones; m. Evelyn June Hall 1950; two s.; ed. Gravesend Grammar School, Harvard Business School; Commissioned, Beds. and Herts. Regiment 1943; with Airborne Forces 1944-47; joined Lloyds Bank 1940; held various managerial positions, becoming Gen. Man. (Group Co-ordination) 1973; Asst. Chief Gen. Man. 1975; Deputy Group Chief Exec. 1976; Dir. of Main Board, Lloyds Bank Ltd. 1976, Group Chief Exec. 1978-; Dir., Lloyds Bank Calif. 1974, Nat. Bank of N.Z. 1978; Territorial Decoration 1962. *Leisure interests:* sailing, photography, gardening, D.I.Y. *Address:* Rowans, 21 College Avenue, Grays, Essex, England. *Telephone:* Grays Thurrock 73101.

JONES, Sir Philip Frederick, Kt., A.C.A., A.A.S.A.; Australian company director; b. 14 Aug. 1912, Napier, New Zealand; s. of J. F. Jones; m. Josephine Nancy Kirschlager 1942; ed. Barker's Coll., Hornsby, N.S.W.; Gen. Man. The Herald & Weekly Times Ltd. 1953-63, Dir. 1957-, Vice-Chair. 1966-70, Chair. 1970-; Chair. W. Australian Newspapers Ltd. 1972-, Herald-Sun TV Pty. 1973-; Dir. Australian Newsprint Mills Ltd. 1957-, Vice-Chair. 1960-; Dir. Tasman Pulp and Paper Co. Ltd. 1963-74, Queensland Press Ltd. 1970-. *Address:* The Herald and Weekly Times Group, 44 Flinders Street, Melbourne, Vic. (Office); 99 Spring Street, Melbourne, Vic. 3000, Australia (Home).

JONES, Reginald H.; American business executive; b. 11 July 1917, England; m. Grace B. Cole 1940; one s. one d.; ed. Univ. of Pennsylvania; joined Gen. Electric Co. 1939, Vice-Pres. (Finance) 1968-70, Sr. Vice-Pres. 1970-72, Dir. 1971-, Vice-Chair. 1972, Pres. 1972-73, Chair., Chief Exec. Officer 1972-; mem. American Man. Assn., Business Council of Financial Execs. Inst.; Trustee, Univ. of Pennsylvania; *Address:* General Electric Co., Fairfield, Conn. 06431, U.S.A.

JONES, Reginald Victor, C.B., C.B.E., M.A., D.PHIL., F.R.S.; British physicist; b. 29 Sept. 1911, London; s. of Harold V. and Alice M. Jones; m. Vera M. Cain 1940; one s. two d.; ed. Alleyn's School, Dulwich, Wadham and Balliol Colls., Oxford; Scientific Officer, Royal Aircraft Establishment and Admiralty Research Lab. 1936-39; Head Scientific Intelligence, Air. Staff 1939-46, Dir. 1946; Dir. Scientific Intelligence, Ministry of Defence 1952-54; Chair. Research Advisory Cttee., British Transport Comm. 1956-57, Safety in Mines Research Advisory Bd. 1956-60, Electronic Research Council, Ministry of Aviation/Tech. 1964-70, Paul Instrument Fund, Royal Soc. 1960-; Pres. Crabtree Foundation 1958, Section A British Assn. 1971; Prof. of Natural Phil., Aberdeen Univ. 1946-; British Nat. Cttee. for History of Science 1970-; Hon. Fellow, Wadham Coll. Oxford 1968; Vice-Pres. Royal Soc. 1972; Commonwealth Prestige Fellow, New Zealand 1973; Hon. Fellow, Coll. of Preceptors 1978; Hon. D.Sc. (Strathclyde) 1969, D.Univ. (York) 1976, (Open) 1978; B.O.I.M.A. Prize, Inst. of Physics 1934, Medal of Freedom with Silver Palm 1946, Medal for Merit (U.S.A.) 1947, Duddell Medal, Physical Soc. 1960, Parsons Medal 1967, Hartley Medal 1972. *Publications:* Most Secret War 1978; various scientific, biographical and philosophical articles in journals; Editor Notes and Records of the Royal Society. *Address:* Department of Natural Philosophy, University of Aberdeen, Aberdeen, AB9 2UE (Office); 8 Queen's Terrace, Aberdeen, AB1 1XL, Scotland (Home). *Telephone:* 40241 (Office); 28184 (Home).

JONES, Roger Warren, M.A., LL.D.; American government official (retd.); b. 3 Feb. 1908, New Hartford, Conn.; s. of H. Roger Jones and Eleanor Drake; m. Dorothy Heyl 1930; two s. one d.; ed. Cornell and Columbia Univs; Instructor, Coral Gables, Mil. Acad. 1928-29; in commerce 1929-31; Asst. Exec. Officer, Cen. Statistical Bd., Washington 1933-39; Admin. Officer, Budget Bureau, 1939-42; Col. in U.S. armed forces 1942-45; Budget Examiner, and subsequently Asst. Dir. for Legis. Reference and Deputy Dir. Bureau of the Budget 1945-59; Chair., Civil Service Comm. 1959-61; Deputy Under-Sec. of State for Admin. 1961-62; Sr. Consultant, Budget Bureau (renamed Office of Man. and Budget Jan. 1970) 1962-69, Asst. Dir. 1969-71; mem. Comm. on Political Activity of Govt. Personnel 1967-68; mem. Bd. of Higher Educ., District of Columbia 1968-73; Sr. Fellow in Public and Int. Affairs, Woodrow Wilson School, Princeton Univ. 1977-; Hon. D.P.S. (George Wash. Univ.) 1969, Hon. O.B.E.; Legion of Merit (U.S.A.). *Leisure interests:* gardening, walking, military history. *Address:* Brookside, New Hartford, Conn. 06057, U.S.A. *Telephone:* 203-379-4996.

JONES, Thomas Victor; American aircraft executive; b. 21 July 1920, Pomona, Calif.; m. Ruth Nagel 1946; one s. one d.; ed. Pomona Jr. Coll. and Stanford Univ; Engineer, El Segundo Div., Douglas Aircraft Co. 1941-47; Tech. Adviser, Brazilian Air Ministry 1947-51; Prof., Head of Dept., Brazilian Inst. of Tech. 1947-51; Rand Corpn. 1951-53; Asst. to Chief Engineer, Northrop Aircraft Inc. 1953, Deputy Chief Engineer 1954-56, Dir. Devt. Planning 1956-57, Corporate Vice-Pres. 1957, Sr. Vice-Pres. 1958-59, Pres. 1959-76, Chief Exec. Officer 1960-, Chair. of Bd. 1963-. *Publications:* Capabilities and Operating Costs of Possible Future Transport Airplanes 1953. *Address:* Northrop Corporation, 1800 Century Park East, Century City, Los Angeles, Calif. 90067 (Office); 1050 Moraga Drive, Los Angeles, Calif. 90049, U.S.A. (Home). *Telephone:* 213-553-6262 (Office).

JONES, Tom; Welsh singer; b. (as Thomas Jones Woodward) 7 June 1940, Treforest, Glamorgan; m. Malinda Trenchard 1956; one s.; made first hit record It's Not Unusual 1965; other records include Once Upon A Time, Green Green Grass of Home, I'll Never Fall in Love Again, I'm Coming Home, Delilah, Help Yourself, I Who Have Nothing, Close Up, Body and Soul; appeared in TV shows Beat Room, Top Gear, Thank Your Lucky Stars, Sunday Night at the London Palladium; toured U.S.A. 1965; appeared in Ed Sullivan Show at Copacabana, New York, and in variety show This Is Tom Jones in U.K. and U.S.A. 1969; made 26 singles with Decca, 16 albums; Britain's Most Popular Male Singer in Melody Maker Poll 1967, 1968; Film: Yockowald 1976. *Address:* c/o MAM Ltd., 24-25 New Bond Street, London, W.1, England.

JONG, Petrus J. S. de, D.S.C.; Netherlands naval officer and politician; b. 3 April 1915, Apeldoorn; m. Anna Geertriida Jacoba Henriette Bartels; three c.; ed. Royal Naval Coll.; entered Netherlands Royal Navy 1931, commissioned 1934; submarine commdr. during Second World War; Adjutant to Minister for Navy 1948; Capt. of frigate De Zeeuw 1951; Staff Officer on staff Allied Commdr.-in-Chief, Channel, Portsmouth 1953; Adjutant to Queen of Netherlands 1955; Capt. of destroyer Gelderland 1958; State Sec. for Defence 1959-63; Minister of Defence 1963-67; Prime Minister and Minister of Gen. Affairs 1967-71; mem. First Chamber (Parl.) 1971-74; Catholic Party. *Address:* c/o Katholieke Volkspartij, The Hague, Netherlands.

JONKER, Willem, D.IUR.; Netherlands business executive; b. 2 July 1907; ed. Gymnasium, The Hague, and Univ. of Leiden; Lawyer 1931; City Councillor, The Hague 1939; Man. Dir. Centraal Bureau voor de Rijn—en Binnenvaart 1939-45, Pres. 1945; mem. Econ. and Social Cttee., EEC and EURATOM 1958-, Vice-Chair. 1962-64; mem. Comm. on Int. Affairs, Netherlands Social and Econ. Council 1960-; Pres. Arbeitsgemeinschaft der Rheinschiffahrt 1964-67; Man. Dir. Nederlandsche Rijnvaartvereeniging 1941-67; Pres. Dutch Org. for Consultation in Transport Trade 1966-77, mem. Cen. Cttee. 1977-; Officer, Order of Orange-Nassau 1963. *Address:* Hart Nibbrigkade 71 flat 22, The Hague, Netherlands. *Telephone:* 246743.

JÓNSSON, Emil; Icelandic engineer and politician (retd.); b. 27 Oct. 1902, Hafnarfjördur; s. of J. Jónsson and Sigurborg Sigurdardóttir; m. Gudfinna Sigurdardóttir 1925; four s. two d.; ed. Reykjavík Grammar School and Tech. Univ. of Copenhagen; Municipal Engineer, Hafnarfjördur 1926-37; Mayor of Hafnarfjördur 1930-37; mem. Althing (Parl.) 1934-71; State Dir. of Lighthouses and Harbours 1937-44, 1949-57; Man. Dir. Nat. Bank of Iceland 1957-58; Minister of Communications 1944-47, of Commerce and Communications 1947-49; Minister of Foreign Affairs, a.i. 1956; Speaker of the Althing 1956-58; Prime Minister 1958-59; Minister of Social Affairs and Fisheries 1959-65; Minister of Foreign Affairs 1965-71; Chair. Labour (Social Democratic) Party 1957-68; fmr. Pres. North Atlantic Council. *Leisure interest:* books. *Address:* Kirkjuvegur 7, Hafnarfjördur, Iceland.

JÓNSSON, Eysteinn; Icelandic politician; b. Djupivogur; s. of Jón Finnson and Sigridur Hansdóttir Beck; m. Sólveig Eyjóltsdóttir 1932; four s. two d.; ed. Co-operative Commercial Coll.; Dir. of Taxes Reykjavík 1930-34; mem. Althing (Parl.) 1933-74; Minister of Finance 1934-39, of Commerce 1939-42; Dir. Printwork Edda

1943-47; Chair. Progressive Party Althing Group 1943-69; Minister of Educ. 1947-49, of Finance 1950-58; Leader, Progressive Party 1962-68; mem. Council of Europe 1967-69; mem. Nordic Council 1969-71, Chair. Cultural Cttee. 1969-71; Speaker United Althing 1971-74; Vice-Chair. Fed. of Iceland Co-operative Socs. 1946-74, Chair. 1974-78; Chair. Iceland Nature Conservation Council 1972-78. *Publications:* Selection of Speeches and Articles 1977. *Leisure interests:* skiing, hiking, books. *Address:* Asvallagötn 67, Reykjavík, Iceland. *Telephone:* 13277.

JÓNSSON, Magnus; Icelandic politician; b. 7 Sept. 1919; ed. Univ. of Iceland; fmr. attorney; Officer in Ministry of Finance 1947-53; mem. Althing (Parl.) 1951-; Gen. Sec. Independence Party 1953-60; Gen. Man. Agricultural Bank of Iceland 1961-65, 1971-; Minister of Finance 1965-71. *Address:* Búnadarbanki Islands, Austurstraeti 5, P.O. Box 1428, Reykjavík, Iceland.

JOOSTE, Gerhardus Petrus, M.A.; South African diplomatist; b. 5 May 1904, Winburg, O.F.S.; s. of Nicolaas Jooste and Sofie Visser; m. Anna van Zyl van der Merwe 1934; one s. one d.; ed. Univ. of Pretoria; entered Union Public Service 1924; apptd. Private Sec. to Hon. N. C. Havenga, Minister of Finance 1929; joined Dept. of External Affairs 1934; Sec. of Legation and Chargé d'affaires a.i., Brussels 1937, Chargé d'affaires to Belgian Govt.-in-Exile, London 1940-41; Head of Econ. Div., Dept. of External Affairs, Pretoria 1941, Head of Political and Diplomatic Div. 1946; Amb. to U.S.A. and Perm. Del. to UN 1949-54; Alt. Del. UN Gen. Assembly, Paris 1948, Leader S. African Del., New York 1949, Leader and Deputy Leader, New York 1950, Deputy Leader, Paris 1951-52, 1958, Leader, New York 1952, 1953, 1954 and 1963; High Commr. in U.K. 1954-56; Sec. for External Affairs, Pretoria 1956; Ex-officio mem. of Atomic Energy Bd. 1956-66; Sec. for Foreign Affairs 1961-66; Special Adv. on Foreign Affairs to the Prime Minister and Minister of Foreign Affairs July 1966; mem. Comm. Water Matters 1966-; Deputy Leader UN Gen. Assembly, New York 1966; Chair. State Procurement Bd. 1968-71. *Leisure interests:* golf and hunting. *Address:* 851 Government Avenue, Arcadia, Pretoria, Republic of South Africa. *Telephone:* 74-5464.

JORDAN, Augustin; French diplomatist; b. 10 Dec. 1910; Ministry of Foreign Affairs 1945-49; Second Sec., Athens 1949-52; Political Counsellor, Bonn 1952-54; Dir. of Cabinet of Ministers for Moroccan and Tunisian Affairs 1954-55; Head of Gen. Affairs and Int. Transport, Dept. of Econ. Affairs, Ministry of Foreign Affairs 1955-70; Amb. to Poland 1970-73, to Austria 1973-75; del. to Moselle Comm. 1976-. *Address:* c/o Ministère des Affaires Etrangères, Quai d'Orsay, Paris, France.

JORDAN, Len B.; American politician; b. 15 May 1899, Mt. Pleasant, Utah; m. Grace Edgington 1924; two s. one d.; ed. Univ. of Oregon; U.S. Army, First World War; Dir. Circle C. Ranch and Jordan Motor Co.; mem. Idaho Legislature 1947; Gov. of Idaho 1951-55; mem. Int. Jt. Comm. 1955-57; Int. Advisory Bd. 1958-59; U.S. Senator from Idaho 1962-73; U.S. Adviser to UN Comm. on the Peaceful Uses of Outer Space; Republican. *Address:* 2819 Crescent Rim Drive, Boise, Idaho 83704, U.S.A.

JORDAN, Pascual, DR.PHIL.; German physicist; b. 18 Oct. 1902, Hanover; s. of Prof. E. Jordan and Eva Fischer; m. Hertha Stahn; two s.; ed. Univ. of Göttingen; Extraordinary Prof., Univ. of Rostock 1929-35, Ordinary Prof. 1935-44; awarded Planck Medal of German Physical Soc. 1942; Ordinary Prof. of Theoretical Physics and Dir. of Inst. of Theoretical Physics Berlin 1944; Visiting Prof. Univ. of Hamburg 1947-53, Ordinary Prof. 1953-70, Prof. Emer. 1970-; Gauss Medal 1955; mem. of Bundestag 1957-61. *Publications include:* Anregung von Quantensprüngen (with J. Franck) 1928, Elementare Quantenmechanik (with M. Born) 1930, Statistische Mechanik auf quantentheoretischer Grundlage 1930, Anschauliche Quantentheorie 1936, Die Physik des 20. Jahrhunderts 1936, Das Bild der modernen Physik 1947, Schwerkraft und Weltall 1952, Der Naturwissenschaftler vor der religiösen Frage 1963, Die Expansion der Erde 1966 (English edn. 1971). *Leisure interests:* all fields of natural sciences, mathematics. *Address:* Isestrasse 123, 2 Hamburg 13, Federal Republic of Germany. *Telephone:* Hamburg 478026.

JØRGENSEN, Anker; Danish trade unionist and politician; b. 13 July 1922, Copenhagen; s. of Johannes Jørgensen; m. Ingrid Jørgensen 1948; four c.; ed. School for Orphans and evening classes; messenger, shipyard worker, warehouse worker 1936-50; Vice-Pres. Warehouse Workers' Union 1950, Pres. 1958-62; Group Sec. Transport and Gen. Workers' Union 1962-68, Pres. 1968-72; mem. Folketing 1964-; mem. Social Dem. Union 1966; mem. Bd. of Dirs., Workers' Bank of Denmark 1969-; Prime Minister 1972-73; Parl. Leader Social Dem. Group 1973-75; Prime Minister Feb. 1975-; Chair. Social-Democratic Party. *Address:* Borgbjergvej 1, 2450 S.V. Copenhagen, Denmark.

JOSEPH, Dov, B.A., B.C.L., PH.D.; Israeli politician; b. 1899, Montreal, Canada; s. of Roman Joseph and Sarah Fineberg; m. Goldie O. Hoffman 1922; one s. two d.; ed. McGill and London Univs.; Legal Adviser, Jewish Agency for Palestine 1936-45, mem., Exec. 1945-47, Treas. 1957-61; mem. (for Mapai) of Knesset 1949-60; Minister of Supply and Rationing 1949-50, Agric. 1949-50, Transport and Communications 1950-51, Trade and Industry 1951-52, Justice 1951-52, Devt. 1953-55, Health 1955, Justice 1961-66. *Publications:* Nationality—its Nature and Problems, British Rule in Palestine, The Faithful City (The Siege of Jerusalem) 1948, In Quest of Peace. *Leisure interests:* reading, music. *Address:* 29 Mordekhai Caspi Street, Jerusalem, Israel. *Telephone:* 719032.

JOSEPH, Rt. Hon. Sir Keith Sinjohn, Bt., M.P.; British politician; b. 17 Jan. 1918, London; s. of the late Sir Samuel George Joseph and Edna Cicely Phillips; m. Hellen Louise Guggenheimer 1951; one s. three d.; ed. Harrow School and Magdalen Coll., Oxford; mil. service 1939-46; Barrister, Middle Temple 1946; Councilman, City of London 1946, Alderman 1946-49; fmr. Underwriter, Lloyd's; Dir. Bovis Holdings Ltd. 1951-59, Chair. Bovis Ltd. 1958-59, Deputy Chair. 1964-70; Conservative M.P. 1956-; Parl. Private Sec. to Parl. Under-Sec. of State, Commonwealth Relations Office 1957-59; Parl. Sec. Ministry of Housing and Local Govt. 1959-61; Minister of State, Bd. of Trade 1961-62; Minister of Housing and Local Govt. and Minister for Welsh Affairs 1962-64; Sec. of State for Social Services 1970-74; Shadow Spokesman for Industry March 1977-79; Sec. of State for Industry 1979-; Founder and Chair. Man. Cttee. of Centre for Policy Studies Ltd. 1974-79; Fellow, All Souls' Coll., Oxford 1946-60, 1971-; Conservative. *Publication:* Equality 1979. *Address:* House of Commons, London, SW1A 0AA; and 23 Mulberry Walk, London, SW3 6DZ, England.

JOSEPH, Maxwell; British business executive and hotelier; b. 31 May 1910, London; m.; Chair. Grand Metropolitan Ltd., Giltspur Ltd., Norfolk Capital Ltd.; fmr. Chair. British Hotels, Restaurants and Caterers Assn.; Dir. Watney Mann and Truman Holdings Ltd., Express Dairy Co. Ltd., Mecca Ltd., Fraser Ansbacher Ltd. *Leisure interest:* philately. *Address:* 1 York Gate, London, NW1 4PU, England.

JOSEPHSON, Brian David, PH.D., F.INST.P., F.R.S.; British physicist; b. 4 Jan. 1940, Cardiff; s. of Abraham and Mimi Josephson; m. Carol Anne Olivier 1976; one d.; ed. Cardiff High School, Cambridge Univ.; Fellow, Trinity Coll., Cambridge 1962-; Research Asst. Prof. Univ. of Illinois 1965-66; Asst. Dir. of Research, Cambridge Univ. 1967-72, Reader in Physics 1972-74, Prof. of Physics 1974-; New Scientist Award 1969, Research Corpn. Award 1969, Fritz London Award 1970, Nobel Prize for Physics 1973. *Publications:* research papers on superconductivity, critical phenomena, theory of intelligence. *Leisure interests:* walking, ice skating, photography, astronomy. *Address:* Cavendish Laboratory, Madingley Road, Cambridge, CB3 0HE, England. *Telephone:* Cambridge 66477.

JOSEPHSON, Erland; Swedish actor and theatre director; b. 15 June 1923; at Municipal Theatre, Helsingborg 1945-49, Gothenburg 1949-56, Royal Dramatic Theatre, Stockholm 1956-; Dir. of Royal Dramatic Theatre, Stockholm 1966-75. *Publications include:* Cirkel 1946, Spegeln och en portvakt 1946, Spel med bedrövade artister 1947, Ensam och fri 1948, Lyssnarpost 1949, De vuxna barnen 1952, Utflykt 1954, Sällskapslek 1955, En berättelse om herr Silberstein 1957, Kungen ur leken 1959, Doktor Meyers sista dagar 1964, Kandidat Nilssons första natt 1964. *Address:* c/o Royal Dramatic Theatre, Nybroplan, Box 5037, 102 41 Stockholm, Sweden. *Telephone:* 0223-66477.

JOST, Nestor; Brazilian politician and bank official; b. 10 Jan. 1917; ed. Anchieta High School, Porto Alegre; Local govt. work 1939-45; fmr. Mayor of São Laurenço do Sul; State Deputy 1947; mem. Legis Assembly of Rio Grande do Sul 1947-50; Fed. Deputy, Partido Democrático (PSD) 1951; Sec.-Gen. PSD, Rio Grande do Sul Div. 1948-49; later Dir. Industrial Credit Section and Agricultural Credit Section, Banco do Brasil; Pres. Banco do Brasil 1967-74; Dir. European Brazilian Bank Ltd. 1972-74; Chair. Cocemtro 1974-. *Address:* Brasília, D.F., Brazil.

JOUKHDAR, Mohammed Saleh, B.A., M.A.; Saudi Arabian economist; b. 1932, Jeddah; m. Malik Intabi 1957; one s. two d.; ed. Univs. of California and Southern California; Econ. Adviser to Directorate-Gen. of Petroleum and Minerals, Saudi Arabia 1958; Dir.-Gen. Ministry of Petroleum and Mineral Resources 1961; Dir. Arabian Oil Co. 1961-66; Sec.-Gen. of OPEC 1967-68; Deputy Minister of Petroleum and Mineral Resources 1969; Dir. PETROMIN 1970-73; Amb. in Charge of Petroleum and Econ. Desk, Ministry of Foreign Affairs 1973-74; on leave of absence as petroleum consultant 1974-; mem. American Soc. of Economists;

Trustee, Coll. of Petroleum and Minerals. *Address:* c/o Ministry of Petroleum and Mineral Resources, P.O. Box 247, Riyadh, Saudi Arabia.

JOUSSET, Bernard; French business executive; b. 27 May 1899, Paris; s. of André Jousset and Alice Ghesquiere-Dierickx; m. Christiane Chain 1926; two s. four d.; ed. Lycées Janson-de-Sailly and Condorcet, Coll. Stanislas and Ecole Supérieure de la Métallurgie et des Mines, Nancy; served French Army 1918-19; founded and became Pres., Dir.-Gen. of Société Parisienne de Cémentation, Hon. Pres. 1966-; Hon. Pres. Groupement Inter-Professionnel Patronal Courbevoie Colombes; fmr. Pres. Comm. juridique, Conseil Nat. du Patronat Français; Hon. Pres. French Catholic Employers; Chevalier, Légion d'honneur, Commdr. de St.-Sylvestre, Chevalier de l'Ordre du Saint Sépulchre de Jérusalem. *Publications:* L'accession des travailleurs au capital, Vers un salaire humain (with Hyacynthe Dubreuil). *Leisure interests:* tennis, hunting. *Address:* 36 avenue du grand Veneur, 78110 Le Vésinet, France. *Telephone:* 976-09-15.

JOUVE, Géraud Henri; French journalist and diplomatist; b. 5 July 1901; ed. Univs. of Strasbourg and Paris; attaché Lycée de Cahors 1929, Institut Français, Berlin 1930; corresp. for Havas Agency in Budapest, Warsaw, Berlin, Amsterdam, Bucharest 1931-40; Free French Del. to Turkey and the Balkans 1940-42; Dir. Radio-Brazzaville 1943-44, and of Agence France-Presse (Algeria-Paris)1944-45; Consul-Gen. Ministry of Foreign Affairs 1946; mem. Nat. Assembly 1946-51; Perm. French Del. to Council of Europe 1951-55; Amb. to Finland 1955-60; French del., UN High Comm. for Refugees 1960-66; Pres. Asscn. syndicale des Rédacteurs en chef; Officier, Légion d'honneur, Médaille de la Résistance 1946. *Publications:* La Remontée de Munich à Brazzaville 1945, Voici l'âge atomique 1946. *Address:* 104 Boulevard Arago, 75014 Paris, France.

JOUVEN, Pierre Jean Antoine; French industrialist; b. 29 March 1908, Paris; s. of Alphonse Jouven and Jeanne Bouhey; m. Madeleine Huguet 1931; three s. three d.; ed. Ecole Polytechnique and Ecole des Mines, Paris; Engineer, Corps des Mines 1931-42; with Compagnie Péchiney, Paris 1943-, Man. of Works 1945-48, Man. Chem. Div. 1948-55, Aluminium Div. 1955-59, Gen. Man. 1960, Chair. of Bd. 1968-72; Chair. Péchiney-Ugine Kuhlmann 1972-75, Hon. Pres. 1975-; Vice-Pres. Rhône-Poulenc S.A. 1975-; Dir. Seichimé, Cedegur G.P., Naphtachimie, Crédit Commercial de France; Pres. Int. Inst. of Aluminium 1972-74; Officier, Légion d'honneur. *Address:* 23 rue Balzac, 75008 Paris; 28 rue Guynomer, 75006 Paris, France.

JOVA, Joseph John, A.B.; American international official; b. 7 Nov. 1916, Newburgh, N.Y.; s. of Joseph Luis and Maria Josefa (Gonzalez-Cavada) Jova; m. Pamela Johnson 1949; two s. one d.; ed. Dartmouth Coll.; with Guatemala Div. United Fruit Co. 1938-41; mil. service U.S. Navy 1942-47; foreign service officer, Dept. of State 1947-; Vice-consul, Basra 1947-49; Second Sec. and Vice-Consul, Tangier 1949-52; Consul, Oporto 1952-54; First Sec., Lisbon 1954-57; Officer-in-Charge French-Iberian Affairs 1957-58; Asst. Chief Personnel Operations Div. 1959-60, Chief 1960-61; Deputy Chief of Mission, Santiago 1961-65; Amb. to Honduras 1965-69; Amb. to OAS, Washington 1969-74; Amb. to Mexico 1974-77; Chair. Dept. of State Man. Reform Task Force; Chair. U.S. dels to Inter-American Council on Educ., Science and Culture, Panama 1972, Mar del Plata 1973, UN Econ. Comm. for Latin America, Santiago 1971, UN Econ. Comm. for Latin American Population Conf., Mexico 1974; Vice-Chair. U.S. del. to Gen. Assembly OAS 1970, 1971, 1972, 1973; Pres. Meridian House Int. 1977-; mem. Mexican Acad. Int. Law, Center for Inter-American Relations; Trustee, Mt. St. Mary's Coll., Arizona Desert Museum; L.H.D. (Mt. St. Mary's Coll.) 1973, LL.D. (Dowling Coll.) 1973; Grand Cross Order Morazán (Honduras), Constantinian Order St. George, Order of the Aztec Eagle (Mexico), Presidential Man. Improvement Award 1970, Conquistador Award, El Paso, Texas 1975, New Orleans Int. House T. A. Cunningham Award 1975. *Address:* Meridian House International, 1630 Crescent Place N.W., Washington, D.C. 20009; 1336 31st Street N.W., Washington, D.C. 20007, U.S.A. (Home). *Telephone:* 667-6800.

JOVANOVICH, William Iliya; American publisher; b. 6 Feb. 1920, Louisville, Colo.; s. of Iliya M. and Hedviga (Garbatz) Jovanovich; m. Martha Evelyn Davis 1943; ed. Univ. of Colorado and Harvard and Columbia Univs.; Harcourt Brace Jovanovich, Inc., New York 1947-, Assoc. Editor 1947-53, Vice-Pres., Dir. 1953-54, Pres. and Dir. 1955-70, Chair. and Chief Exec. Officer 1970-; Chair. Longmans Canada Ltd. 1961; D.Litt. (Colo. Coll., Adelphi Univ., Alaska Univ.) *Publications:* Now, Barabbas 1964 *Address:* 757 Third Avenue, New York, N.Y. 10017, U.S.A. (Office).

JOXE, Louis, L. ÈS L.; French diplomatist and politician; b. 16 Sept. 1901; ed. Lycée Lakanal and Faculty of Arts, Paris; mem. French del. League of Nations 1932, 1933, 1939; Deputy Chief of Secr. to Minister for Air and mem. French del. to Conf. for Reduction of Armaments 1933-34; attached to Information Service, League of Nations 1933-39; Sec.-Gen. Centre d'Etudes de Politique Etrangère, Paris Univ.; Inspector of Foreign Services, Agence d'Information 1935-39; Sec.-Gen. of Cttee. for Nat. Liberation 1943-44; Sec.-Gen. of Govt. 1944-46, Councillor of State 1944; in charge of cultural relations Ministry of Foreign Affairs, Paris 1946-52; Amb. to U.S.S.R. 1952-56, to Germany 1956; Sec.-Gen. Ministry of Foreign Affairs 1956-59; Sec. of State, Prime Minister's Office 1959-60; Minister of Nat. Educ. July-Nov. 1960; Minister of State in charge of Algerian Affairs 1960-62, for French Admin. Reform 1962-67; Minister of Justice 1967-68; mem. French del. to UNESCO Conf. 1946, 1947, 1949, 1950, 1951; Commdr., Légion d'honneur, Médaille de la Résistance. *Address:* 39 quai de l'Horloge, 75001 Paris, France.

JOYCE, Eileen; Australian concert pianist; ed. Loreto Convent, Perth, Leipzig Conservatoire, studied in Germany under Teichmuller and Schnabel; Concert début, London, at Promenade Concerts under Sir Henry Wood; numerous concert tours, radio performances and gramophone recordings; during Second World War played in assen. with London Philharmonic Orchestra; concerts with all principal orchestras in U.K., Berlin Philharmonic Orchestra, Conservatoire and Nat. Orchestras, France, Concertgebouw Orchestra, Netherlands, La Scala Orchestra, Italy, Philadelphia Orchestra, Carnegie Hall, New York and Royal Philharmonic Soc.; concert tours, Australia 1948, S. Africa 1950, Scandinavia and Netherlands 1951, S. America, Scandinavia and Finland 1952, Yugoslavia 1953, New Zealand 1958, U.S.S.R. 1961, India 1962; contributed to sound tracks of films, including The Seventh Veil and Brief Encounter; appeared in films, including Wherever She Goes (autobiographical); gramophone recordings include first recording of John Ireland's Pianoforte Concerto; Hon. Mus.D. (Cambridge) 1971. *Address:* Chartwell Farm, Westerham, Kent, England.

JUAN, Prince, Count of Barcelona; b. 20 June 1913; m. H.R.H. Doña María de las Mercedes de Borbón y Orleans 1935; went into exile with his father King Alfonso April 1931; recognized as King of Spain by his father 1941, renounced right to Spanish throne 1977. *Address:* Villa "Giralda," Estoril, Portugal. *Telephone:* Lisbon 261091.

JUAN CARLOS I, King of Spain; b. 5 Jan. 1938, Rome; s. of H.R.H. Don Juan de Borbón y Battenberg, Count of Barcelona, and H.R.H. Doña María de las Mercedes de Borbón y Orleans, and grandson of King Alfonso XIII and Queen Victoria Eugenia of Spain; m. Princess Sophia, d. of the late King Paul of the Hellenes and of Queen Frederica, 1962; heir, Crown Prince Felipe, b. Dec. 1968; daughters Princess Elena, Princess Cristina; ed. privately in Fribourg (Switzerland), Madrid, San Sebastián, Inst. of San Isidro, Madrid, Colegio del Carmen, Gen. Mil. Acad., Zaragoza and Univ. of Madrid; spent childhood in Rome, Lausanne, Estoril and Madrid; commissioned into the three armed forces and undertook training in each of them 1957-59; has studied the organization and activities of various govt. ministries; named by Gen. Franco as future King of Spain 1969, inaugurated as King of Spain 22 Nov. 1975, named as Capt.-Gen. of the Armed Forces Nov. 1975. *Address:* Palacio de la Zarzuela, Madrid, Spain.

JUBANY ARNAU, H.E. Cardinal Narciso, D.CN.L.; Spanish ecclesiastic; b. 12 Aug. 1916, Sta. Coloma, Gerona; ordained 1939; Auxiliary Bishop of Barcelona 1955; Bishop of Gerona 1964-71; Archbishop of Barcelona 1971-; cr. Cardinal 1973; Pres. Episcopal Comm. on Liturgy; mem. Sacred Congregation for Divine Worship. *Address:* Calle Obispo Irurita 5, Barcelona 2, Spain. *Telephone:* 218-37-34.

JUDELSON, David N.; American business executive; b. 22 Nov. 1929, Hackensack, N.J.; m. Maria O. Guerra; two s. one d.; ed. New York Univ; Vice-Pres. in charge of mfg., Gulf and Western Industries Inc. 1958, Dir. 1959-, Exec. Vice-Pres. 1966, Pres. 1967-; Chair. Oscar I. Judelson Inc.; Dir. Ward Foods Inc., Quebec Iron and Titanium Corpn. *Address:* Gulf and Western Industries Inc., 1 Gulf and Western Plaza, New York, N.Y. 10021, U.S.A.

JUDGE, Edward Thomas, M.A.; British business executive; b. 20 Nov. 1908, Leicester; s. of late Thomas Oliver and Florence (née Gravestock) Judge; m. Alice Gertrude Matthews 1934; two s.; ed. Worcester Royal Grammar School and St. John's Coll., Cambridge; Dorman, Long & Co. Ltd. 1930-67; Chair. and Gen. Man. 1961-67; Pres. British Iron and Steel Fed. 1965-66; Chair. Reyrolle Parsons 1969-74, A. Reyrolle and Co. Ltd. and C. A. Parsons Ltd. 1968-74,

Anglo Great Lakes Corpn. 1968-71; Dir. B.P.B. Industries, Pilkington Bros. Ltd., Fibreglass Ltd., Dorman Long, Vanderbijl Corpn. Ltd., Zenith Electric Co. Ltd., E.T.J. Consultancy Services, Weldall Eng. Ltd.; Deputy Pres. British Electrical and Allied Mfrs. Assn. 1969-70, Pres. 1970-71. *Leisure interest:* fishing *Address:* Wood Place, Aspley Guise, Milton Keynes MK17 8EP, England. *Telephone:* Woburn Sands 582029.

JUDGE, Thomas L.; American state governor; b. 12 Oct. 1934, Helena, Mont.; s. of Thomas P. Judge and Blanche Gulliot; m. Carol Anderson 1966; two s.; ed. Univs. of Notre Dame and Louisville; Second Lieut. U.S. Army 1958; Advertising Exec. Louisville Courier Journal 1959-60; Pres. Judge Advertising 1960-73; State Rep. Lewis and Clark County 1960-66, State Senator 1967-68; Lieut.-Gov. of Montana 1968-72, Gov. 1973-; Democrat. *Leisure interests:* skiing, hunting, fishing, reading. *Address:* State Capitol, Helena, Mont. (Office); 2 Carson, Helena, Mont. 59601, U.S.A. (Home). *Telephone:* 449-3111.

JUGLAS, Jean-Jacques, L. ÈS L.; French professor and politician; b. 10 June 1904, Bergerac, Dordogne; s. of Jean-Fernand Juglas and Marie Lacoste; m. Marie-Marguerite Lacotte 1927; one d.; ed. Collège de Bergerac and Univ. of Bordeaux; taught at various lycées; Prof. of Geography at Ecole Normale Supérieure de l'Enseignement Technique and Ecole Nationale des Arts et Métiers, Paris; Sec.-Gen. for Information at Ministry of French Overseas Territories; served French Army 1939-40; worked with Resistance during Occupation; one of founders of MRP (Catholic Party) in west of Paris; mem. of both Constituent Assemblies; Deputy for Paris 1946-51, Lot et Garonne 1951-56; del. to Franco-Vietnamese Conf., Fontainebleau 1946, and to UN 1950, 1951 and 1954; Pres. Comm. for Overseas Territories in the Nat. Ass. 1946-55; Minister for Overseas Territories Jan.-Feb. 1955; Dir. 1956-60, Pres. Council of Admin. Office of Scientific and Tech. Research Overseas 1960-63; Prof. Econ. Geography, Conservatoire Nationale des Arts et Métiers; Pres. Cttee. for Scientific Research and Tropical Techniques; Dir. l'Institut d'Etude du Développement Economique et Social; mem. Académie des Sciences d'Outre-Mer. *Publication:* Traité de géographie économique. *Leisure interests:* reading, walking, swimming. *Address:* 137 rue de la Tour, 75016 Paris, France. *Telephone:* 504-25-40 (Paris).

JULIA, Gaston Maurice, D. ÈS S.; French university professor; b. 3 Feb. 1893, Sidi-Bel-Abbès, Algeria; s. of Joseph Julia and Dolores Bénavent; m. Marianne Chausson 1917; six s.; ed. Ecole Normale Supérieure; Lecturer, Ecole Normale Supérieure 1919-28; Lecturer at the Sorbonne 1920-25; Titular Prof. of Higher Analysis at the Sorbonne 1925-64; Tutor at the Ecole Polytechnique 1920-36; Prof. of Geometry, Ecole Polytechnique 1936-64; mem. Acad. des Sciences (fmr. Pres.), Pontifical Acad. of Sciences; Grand Officier, Légion d'honneur (mil.), Croix de guerre (1914-18), Grand Invalide de guerre (1914-18). *Publications:* sixteen volumes and 200 monographs on analysis, geometry, and mechanics 1924-47. *Leisure interests:* music, reading, horticulture. (Died 19 March 1979).

JULIANA Louise Emma Marie Wilhelmina, Queen of the Netherlands, Princess of Orange-Nassau, Duchess of Mecklenburgh, Princess of Lippe-Biesterfeld; b. 30 April 1909; daughter of Queen Wilhelmina and Prince Henry of Mecklenburg-Schwerin; married Prince Bernhard of Lippe-Biesterfeld Jan. 1937; daughters Princess Beatrix Wilhelmina Armgard, b. Jan. 1938, Princess Irene Emma Elisabeth, b. Aug. 1939, Princes Margriet Francisca, b. Jan. 1943, Princess Maria Christina, b. Feb. 1947; went to Canada after German occupation 1940; in England 1944; returned to Netherlands 1945; Princess Regent 1948; Queen of Netherlands Sept. 1948-. *Address:* Palace of Soestdijk, Baarn, Netherlands.

JULIEN, A. M., C.B.E. (pseudonym of Aman Maistre); French theatrical director and administrator; b. 24 July 1903; ed. Inst. St. Joseph, Toulon; Founder, Compagnie des Quinze; Asst. to Cavalcanti; Artistic Dir., Radio-Cité, Editor Vedettes 1942-44; Producer, Théâtre Sarah-Bernhardt 1944, Dir. 1947-59, 1962-; Dir.-Gen. Paris Drama Festival 1954-; Dir.-Gen. Théâtre des Nations 1958-65; Admin. Paris Opéra and Opéra Comique 1959-62; Pres. Syndicat des Dirs. de Théâtre; Officier, Légion d'honneur. *Address:* Les Templiers, Lavencas, 12660 Saint-Georges de Luzençon, France.

JUMA, Midhet; Jordanian diplomatist; b. 19 Aug. 1920; brother of Saad Juma (*q.v.*); ed. Cairo Univ.; Attaché to Arab League, Cairo 1945-47; First Sec. and Counsellor, Cairo 1947-52; Counsellor and Chargé d'affaires, London 1952-53; Minister to Pakistan 1953-55; Chief of Protocol, Royal Palace Amman 1956; Under-Sec. for Press and Broadcasting 1956-58; Amb. to the U.S.A. 1958-59, to Morocco 1959-62, to Fed. Repub. of Germany 1962-65, to Lebanon 1965-67, to U.K. 1967-69, to Tunisia 1969-70, to Spain 1971-75; numerous decorations. *Address:* c/o Ministry of Foreign Affairs, Amman, Jordan.

JUMA, Saad; Jordanian diplomatist; b. 21 March 1916, Tafila; brother of Midhet Juma (*q.v.*); m. Salwa Ghanem; two s. one d.; ed. Syrian Univ., Damascus; Civil Service for 29 years; Dir. Press and Publicity; Chief Censor; Sec. to Prime Minister; Perm. Under-Sec., Govt. of Amman; Under-Sec. for Foreign Affairs; Amb. to Iran; Amb. to Syrian Arab Repub. 1962, to U.S.A. 1962-65; Minister for the Royal Court 1965-67; Prime Minister April-Oct. 1967; Amb. to U.K. 1969-70; fmr. Personal Rep. to H.M. King Hussein; mem. Senate; honours from Jordan, Iran, Syria, Italy and China (Taiwan). *Publications:* Conspiracy and the Battle of Destiny, Hostile Society. *Leisure interests:* reading, music, bridge. *Address:* Jebel Amman, 4th Circle, Amman, Jordan.

JUMBE, (Mwinyi) Aboud; Tanzanian politician; b. 1920, Zanzibar; ed. secondary school, Zanzibar and Makerere Univ. Coll., Uganda; Teacher 1946-50; leader, Zanzibar Nat. Union 1953; fmr. mem. Zanzibar Township Council; mem. Afro-Shirazi Party (ASP) 1960-77, later Organizing Sec., Head 1972-77; Vice-Chair. Chama Cha Mapinduzi (formed by merger of TANU and ASP) Feb. 1977-; mem. Nat. Assembly of Zanzibar (ASP) 1961-; Opposition Whip 1962-64; Minister of Home Affairs, Zanzibar Jan.-April 1964; Minister of State, First Vice-President's Office, Tanzania 1964-72, concurrently responsible for Ministry of Health and Social Services 1964-67; First Vice-Pres. of Tanzania 1972-77, Vice-Pres. 1977-; Chair. Zanzibar Revolutionary Council April 1972-. *Address:* Office of the Vice-President, Zanzibar, United Republic of Tanzania.

JUNG, Nawab Mir Nawaz (M. Mir Khan), B.A., LL.B., M.SC.; Pakistan financier and diplomatist; b. 4 Jan. 1914, Hyderabad; s. of Nawab and Begum Ameer Nawaz Jung; one c.; ed. Nizam's Coll., Hyderabad and Univs. of London, Paris and Geneva; in service of Hyderabad State, holding posts of Cabinet Sec., Sec. Railways and Civil Aviation, Sec. Finance, Official Dir. State Bank, Deccan Airways, Coal Mines Co., etc.; prior to partition was Hyderabad's Envoy in London; Minister of Pakistan to Sweden, Norway, Denmark and Finland 1951-53; Amb. to the UN 1954-57, Pres. Econ. and Social Council of the UN 1957-58; Amb. to France and to the Vatican 1957-59; Amb.-at-Large to African States 1960; Regional Rep. to UN to N.W. Africa, Dakar 1961-65; UN Rep., Tunis 1965-68; Sr. Consultant to UN Devt. Programme (UNDP); Grand Officier, Légion d'honneur (France), Ordre Nat. (Senegal, Mauritania), Grand Cordon Ordre Nat. (Tunisia). *Publications:* Federal Finance 1936, Central Banking 1945, Five Year Appraisals (1960-64) of UN and Agencies (co-author). *Address:* UNDP, Palais des Nations, Geneva; and 137 rue de Lausanne, Geneva, Switzerland. *Telephone:* 317082 (Home).

JUNG, Richard, DR.MED.; German neurologist; b. 27 June 1911, Frankenthal; s. of Adolf and Irmgard Weinbrecht; m. Margit Reuterwall 1944; three d.; ed. Vienna, Freiburg, Paris, Berlin and Munich Univs.; Asst. Neuro-psychiatric Clinic, Freiburg i. Br. Univ. 1935-36, 1938-48; Rockefeller Fellow, London and Zürich 1936-37; at Hirnforschungsinst., Berlin-Buch 1937-38; Dozent, Freiburg i. Br. Univ. 1941, Extraordinary Prof. 1947, Dir. Dept. of Clinical Neurophysiology 1948, Ordinary Prof. of Neurology and Clinical Neurophysiology 1951-, Dean Medical Faculty 1954-55; hon. mem., Soc. de Neurologie (Paris), Soc. Italiana d'Elettro-encefalografia; corresp. mem., American Neurological Assn.; mem. Akademie der Wissenschaften, Mainz 1960; Hon. D.Sc. (Chicago) 1969. *Publications:* Eine Methodik der Ableitung lokalisierter Potentialschwankungen aus subcorticalen Hirngebieten (with A. E. Kornmüller) 1938, Physiologische Untersuchungen über den Parkinsontremor und andere Zitterformen beim Menschen 1941, Über rasch wiederholte Entladungen der Motoneurone und die Hemmungsphase des Beugereflexes (with J. F. Tönnies) 1948, Mikroableitungen von einzelnen Neuronen im optischen Cortex der Katze: Die lichtaktivierten B-Neurone (with R. von Baumgarten and G. Baumgartner) 1952, Neuronal Discharge 1953, Allgemeine Neurophysiologie 1953, Korrelationen von Neuroentätigkeit und Sehen 1961, Neurophysiologie und Psychiatrie 1967, Visual Perception and Neurophysiology 1973. *Leisure interest:* graphic arts. *Address:* Waldhofstrasse 42, D. 78 Freiburg, Federal Republic of Germany. *Telephone:* 20174215 (Office).

JUNGALWALLA, Nowshir K., O.B.E., M.B.B.S., M.R.C.S., M.R.C.P.; Indian public health official; b. 1 Dec. 1912, Rangoon, Burma; s. of Dr. K. T. Jungalwalla and Freny Anklesaria; m. Piloo Nanavutty 1950; one s.; ed. Univ. of Rangoon and Johns Hopkins Univ., U.S.A.; Indian Army Medical Services 1939-46; Deputy Public Health Commr., Ministry of Health 1946-50; Regional Adviser, Regional Office for S.E. Asia, World Health Org. (WHO) 1950-52, Rep. in Indonesia 1952-55, Dir. Public Health Services, Geneva 1967-72;

Deputy Dir.-Gen. of Health Services, India 1955-57, 1960-65, Additional Dir.-Gen. 1965-67; Dir. All-India Inst. of Hygiene and Public Health 1957-60; Dir. Health Services, Regional Office for S.E. Asia, New Delhi 1972-; Hon. Fellow American Public Health Assen.; Fellow and Vice-Pres. Nat. Acad. of Medical Sciences (India); Deputy Dir.-Gen. of Health Services 1963-65. *Address:* A2/2 Safdarjang Enclave, New Delhi 110016, India. *Telephone:* 690591.

JÜNGER, Ernst; German writer; b. 29 March 1895, Heidelberg; s. of Dr. Ernst Jünger and Lily Lampl; m. 1st Gretha v. Jeinsen 1925 (died 1960); m. 2nd Dr. Liselotte Lohrer 1962; two s. (one deceased); ed. Hanover, Leipzig and Naples; served in German Army in both World Wars; awarded Pour le Mérite in First War; involved in July 20th 1944 plot while on Staff of Gen. Stülpnagel in Paris; Literary Award of City of Bremen 1956, Goslar 1956, Grand Cross of Merit 1959, Culture Award, Fed. of German Industries 1960, Immermann Award of Düsseldorf 1965, Freiherr von Stein Gold Medal 1970, Schiller Gedächtnispreis 1974, Star of the Grand Cross of Merit (Fed. Repub. of Germany) 1977, Golden Eagle (City of Nice) 1978. *Publications:* In Stahlegewittern 1920, Das Abenteuerliche Herz 1929, Der Arbeiter 1932, Auf den Marmorklippen 1939, Gärten und Strassen 1942, Der Friede 1945, Sprache und Körperbau 1948, Atlantische Fahrt 1948, Heliopolis 1949, Strahlungen 1949, Über die Linie 1950, Der Waldgang 1951, Besuch auf Godenholm 1952, Der Gordische Knoten 1953, Das Sanduhrbuch 1954, Am Sarazenenturm 1955, Rivarol 1956, Gläserne Bienen 1957, Jahre der Okkupation, An der Zeitmauer 1959, Der Weltstaat 1960, Ein Vormittag in Antibes 1960, Sgraffiti 1960, Werke (collected works, 10 vols.) 1960-65, Das spanische Mondhorn 1962, Typus, Name, Gestalt 1963, Sturm 1963, Grenzgänge 1965, Im Granit 1967, Subtile Jagden 1967, Zwei Inseln (Formosa, Ceylon) 1968, Federbälle 1969, Lettern und Ideogramme (Japan), Ad Hoc 1970, Annäherungen, Drogen und Rausch 1970, Sinn u. Bedeutung, ein Figurenspiel 1971, Philemon u. Baucis 1972, Die Zwille 1973, Zahlen und Götter 1974, Ernst Jünger-Alfred Kubin, eine Begegnung 1975, Myrdun (illustrated by A. Kubin, 2nd edn.) 1975, Eumneswil 1977, Collected Works (18 vols.) 1978. *Leisure interest:* entomology. *Address:* D7945, Langenenslingen/Wilflingen 60, Federal Republic of Germany.

JUNGERS, Francis; American oil executive; s. of Frank Jungers and Elizabeth Becker; m. Alison F. Morris 1947; three s. one d.; ed. Willamette Univ. and Univ. of Washington; joined Arabian American Oil Co. 1947, various eng. and operating positions 1947-62, Gen. Man. U.S. Offices 1964-65, Gen. Man. Govt. Relations 1969, Vice-Pres. Concession Affairs 1969, Dir. 1970, Sr. Vice-Pres. Finance & Relations 1970, Pres. 1971, Chair. of Bd. and Chief Exec. Officer 1973-; Trustee, American Univ. of Cairo 1975-. *Leisure interests:* golf, swimming. *Address:* Arabian American Oil Company, Dhahran, Saudi Arabia; and Arabian American Oil Company, 1345 Avenue of the Americas, New York, N.Y. 10019, U.S.A. *Telephone:* (212) 977-7300 (New York).

JUNKER, Wolfgang; German building engineer and politician; b. 23 Feb. 1929, Quedlinburg; mem. Sozialistische Einheitspartei Deutschlands (SED), German Dem. Repub. 1951-; various posts in building industry 1951-61; Deputy Minister of Construction 1961-63, Minister 1963-; Cand. mem. Cen. Cttee. SED 1967-71, mem. 1971-; Vaterländischer Verdienstorden in Gold and Silver and other decorations. *Address:* Ministerium für die Bauindustrie, Berlin, German Democratic Republic.

JUNOR, John Donald Brown, M.A.; British journalist; b. 15 Jan. 1919, Glasgow; s. of Alexander Junor; m. Pamela Welsh 1942; one s. one d.; ed. Glasgow Univ.; served Fleet Air Arm 1940-45; political columnist Sunday Express 1948-50; Asst. Editor Daily Express 1951-53; Deputy Editor Evening Standard 1953-54; Editor Sunday Express 1954-, Dir. 1956-, Chair. 1968-; Dir. Express Newspapers 1960-; Hon. Dr. of Law, (New Brunswick) 1973. *Publications:* Proletariat of Westminster 1949, Equal Shares 1950. *Leisure interests:* golf, tennis, sailing. *Address:* Sunday Express, Fleet Street, London, EC4P 4JT, England. *Telephone:* 01-353 8000

JURGENS, Curt; German film actor; b. 13 Dec. 1912, Munich; m. 1st. Lulu Basler, (divorced); m. 2nd. Judith Holzmeister, (divorced); m. 3rd. Eva Bartok (divorced); m. 4th. Simone Bicheron, (divorced 1977); m. 5th Margie Schmitz 1978. *Films include:* The Devil's General 1954, Le Héros Sont Fatigués 1955, An Eye for An Eye 1956, Without You It is Night 1956, And Woman Was Created 1957, Me and the Colonel 1957, The Enemy Below 1957, Inn of the Sixth Happiness 1958, The Blue Angel 1958, Ferry to Hong Kong 1958, I Aim at the Stars 1959, Tamango 1960, Lord Jim 1964, Three Penny Opera 1965, Das Liebeskarussel 1965, The Assassination Bureau 1968, Nicholas and Alexandra 1971, Vault of Horror 1973, The Spy Who Loved Me 1977; has also appeared in numerous German films; Cine-Revue Award 1956, Venice Film Festival Award 1955.

JURGENSEN, Jean-Daniel; French diplomatist; b. 4 July 1917, Paris; s. of Philippe Jurgensen and Annette Boyenval; m. Marie-Rose Treffot 1939; two s. one d.; ed. Ecole Normale Supérieure, Paris; Deputy to Nat. Ass. 1944-46; mem. French del. to UN 1947-51; Ministry of Foreign Affairs 1951-59; Deputy Rep. of France to NATO 1959-64; Dir. of American Affairs, Ministry of Foreign Affairs 1964-69, Deputy Dir. of Political Affairs 1969-72; Amb. to India 1972-76; Croix de guerre, Commdr., Légion d'honneur. *Publications:* Chrétien ou Marxiste? 1949, and articles in journals. *Leisure interests:* music, linguistics, philology. *Address:* c/o Ministry of Foreign Affairs, Paris, France.

JURINAC, Sena; Yugoslav-born Austrian singer; b. 24 Oct. 1921; m. Dr. Josef Lederle; studied under Milka Kostrencíc; first appearance as Mimi, Zagreb 1942; mem. Vienna State Opera Co. 1944-; has sung at Salzburg, Glyndebourne Festivals, etc.; sang in Der Rosenkavalier 1966 and 1971, Tosca 1968, Iphigénie en Tauride 1973, Covent Garden; Austrian State Kammersängerin 1951; numerous tours and recordings; Ehrenkreuz für Wissenchaft und Kunst 1961; Grosses Ehrenzeichen für Verdienste um die Republik Österreich 1967; Ehrenring der Wiener Staatsoper 1968; Ehrenmitglied der Wiener Staatsoper 1971. *Address:* c/o State Opera House, Vienna 1, Austria.

JUSUF, Lieut.-Gen. Andi Mohamad; Indonesian army officer and politician; b. 23 June 1929, Sulawesi; ed. Dutch Secondary School, and Higher Secondary School; fmr. Chief of Staff of Hasanuddin and Commdr. S.E. Mil. District; Minister of Light and Basic Industry 1966, of Basic Industry and Power 1966, of Trade and Commerce 1967, of Industry 1968-. *Address:* Ministry of Industry, Jakarta, Indonesia.

JUTIKKALA, Eino Kaarlo Ilmari, PH.D.; Finnish historian; b. 24 Oct. 1907, Sääksmäki; s. of Kaarle Fredrik Rinne and Hilma Maria Hagelberg; ed. Helsinki Univ.; Docent, Helsinki Univ. 1933, Prof. of Finnish History 1947-50, 1954-74, Prof. of Econ. History 1950-54, Dean of Faculty of Arts 1966-69; Chair. State Comm. for the Humanities 1967-70; mem. Culture Foundation for Finland and Sweden 1960-71; mem. Finnish Acad. 1972; Ph.D. h.c. (Stockholm), Pol.D. h.c. (Helsinki), D. h.c. (Helsinki Commercial Univ.). *Publications include:* Suomen talonpojan historia 1942, Atlas of Finnish History 1949, Turun kaupungin historia 1856-1917 1957, A History of Finland 1962, Pohjoismaisen yhteiskunnan historialliset juuret 1965; studies dealing with demographic, agrarian and parliamentary history, the history of communications, etc.; editor of several historical works and learned journals. *Address:* Merikatu 3A, Helsinki 14, Finland *Telephone:* 62-65-08.

K

KABACHNIK, Martin Izrailevich; Soviet organic chemist; b. 9 Sept. 1908, Yekaterinburg (now Sverdlovsk); ed. Moscow Higher Chemicotechnical School; Assoc. of Inst. of Organic Chem. 1939-54; Assoc. of Inst. of Elemental-Organic Compounds, U.S.S.R. Acad. of Sciences 1954-; mem. CPSU 1957; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-58, mem. 1958-; State Prize 1946, Order of Lenin and other decorations. *Publications:* Investigation in the Field of Organo-Phosphorus Compounds 1946-, Some Problems of Tautomerism 1956, Dual Reaction Capacity and Tautomerism 1960, Conjugation in Non-Coplanar Systems 1962. *Address:* Institute of Elemental-Organic Compounds, U.S.S.R. Academy of Sciences, 14 Ulitsa Vavilova, Moscow, U.S.S.R.

KABALEVSKY, Dmitriy Borisovich; Soviet composer; b. 30 Dec. 1903, St. Petersburg (now Leningrad); ed. Moscow Conservatoire; studied under N. Y. Myaskovsky and A. B. Goldenweiser; Prof. Moscow Conservatoire 1939-; Sec. Union of Soviet Composers 1951-; mem. CP 1940-; mem. World Peace Council 1955-; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. Acad. of Pedagogical Sciences; Deputy Chair. U.S.S.R. Supreme Soviet Parl. Group; People's Artist of the U.S.S.R.; State Prize 1946, 1949 and 1951; R.S.F.S.R. State Prize 1966; Badge of Honour 1940; Order of Lenin (twice), of Red Banner of Labour 1966. *Works include:* four symphonies, two string quartets, three piano concertos 1929, 1935, 1952; violin and 'cello concertos 1948, 1949, 1964; cantata: Great Motherland 1942; operas: Colas Brugnon 1937, Under Fire 1943, Tara's Family 1950, Nikita Vershinin 1954, Sisters 1969; music for films: Petersburg Nights 1933, Shchors 1939, Marusya's First Year at School 1948, Mussorgsky 1950, Volnitsa 1956, Sisters 1957, 18th Year 1958, Gloomy Morning 1959; 10 Shakespeare sonnets for bass with pianoforte accompaniment 1953-55; Romeo and Juliet (symphonic suite) 1956, Song of Morning, Spring and Peace (children's cantata), Spring Sings (operetta) 1957, Lenintsy (cantata) 1959, Sonata for 'Cello and Piano 1962, Requiem (oratorio) 1964. *Publication:* Collected Articles on Music 1963. *Address:* Academy of Pedagogical Sciences, Bolshaya Polyanka 58, 113095 Moscow, U.S.S.R.

KABAT, Elvin Abraham, B.S., A.M. PH.D.; American biochemist, immunochemist and professor of microbiology and human genetics and development; b. 1 Sept. 1914, New York; s. of Harris Kabat and Doreen Otesky; m. Sally Lennick 1942; three s.; ed. Coll. of City of New York and Columbia Univ.; Lab. Asst. in Immunochemistry, Presbyterian Hospital, New York 1933-37; Rockefeller Foundation Fellow at Inst. of Physical Chem., Uppsala, Sweden 1937-38; Instructor in Pathology, Cornell Medical Coll. 1938-41; Asst. Prof. of Bacteriology, Columbia Univ. 1946-48, Assoc. Prof. of Bacteriology 1948-52, Prof. of Microbiology 1952-, Prof. of Human Genetics and Devt. 1969-; Microbiologist, Medical Service, Presbyterian Hospital, Neurological Inst. 1956-; Pres. American Asscn. of Immunologists 1965-66; Pres. Harvey Soc. 1976-77; mem. World Health Org. (WHO) Advisory Panel on Immunology 1965-(80), Editorial Bd. Journal of Immunology 1961-76, Editorial Bd. Immuno-chemistry; consultant, Nat. Cancer Inst. 1975-79; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Fogarty Scholar, Nat. Inst. of Health 1974-75; Hon. Doctor of Laws (Glasgow) 1976; Eli Lilly Award in Bacteriology and Immunology 1949, Golden Hope Chest Award Nat. Multiple Sclerosis Soc. 1962, Karl Landsteiner Memorial Award, American Asscn. of Blood Banks 1966, Claude Bernard Medal, Univ. of Montreal 1968, City of Hope Annual Research Award 1974, Award of Fifth Int. Convocation on Immunology 1976, Louisa Gross Horwitz Prize 1977. *Publications:* Experimental Immunochemistry (with M. Mayer) 1948, Blood Group Substances, Their Chemistry and Immunochemistry 1956, Structural Concepts in Immunology and Immunochemistry 1968; and numerous scientific papers. *Address:* Columbia University, College of Physicians and Surgeons, Department of Microbiology, 701 West 168th Street, New York, N.Y. 10032 (Office); 70 Haven Avenue, New York, N.Y. 10032, U.S.A. (Home). *Telephone:* 212-694-3519 (Office); 212-WA-7-6807 (Home).

KABRHELOVÁ, Marie; Czechoslovak politician; b. 4 May 1925, Opatov, Jihlava district; ed. Political Coll. of Cen. Cttee. of Czechoslovak Communist Party; mem. of Jihlava Regional Cttee. of Czechoslovak Communist Party (CCP) 1946-48; official of Cen. Council of Trade Unions 1948-61, mem. Plenum 1949-52, of Presidium 1950-52; Deputy Chair. of Cen. Cttee. of Union of Consumer Goods Industry Workers 1966-68; Chair. Fed. Cttee. of Union of Textile, Clothing and Leather Processing Workers 1969; Deputy Minister of Labour and Social Affairs, Czech Socialist Repub. 1969-70; mem. Presidium of Cen. Cttee. of Czech Union of Women 1969-74; mem. Czechoslovak Women's Council 1969-74; Gen. Sec. of Trade Union Int. of Textile, Clothing, Leather and Fur Workers 1970-71; mem. Bureau of WFTU 1970-72, Chair. WFTU working group on issues of working women 1970-74; Sec. of Cen. Council of Czechoslovak Revolutionary Trade Union Movement 1971-72, of Cen. Council of Trade Unions 1972-74; Chair. Cen. Cttee., Czechoslovak Union of Women 1974-; mem. Bureau and Council, Int. Fed. of Dem. Women 1974-; mem. World Peace Council 1974-; mem. Presidium of Cen. Cttee. of Czechoslovak Nat. Front 1974-; mem. Cen. Cttee. and Secr. of CCP April 1976-, Presidium Fed. Ass. 1976-; Deputy, House of Nations, Fed. Ass. 1976-; Order of Labour 1973, Gold Medal of Revolutionary Trade Union Movement 1974, Order of February 1948 1975. *Address:* Central Committee of the Communist Party of Czechoslovakia, Nábr. Ludvíka Svobody 12, 125 11 Prague 1, Czechoslovakia.

KAC, Mark, PH.D., D.SC.; American professor of mathematics; b. 3 Aug. 1914, Krzemieniec, Poland; s. of Bencion and Chana (Rojchel) Kac; m. Katherine Elizabeth Mayberry 1942; one s. one d.; ed. Lycée of Krzemieniec and John Casimir Univ., Lwów; Parnas Foundation Fellow, Johns Hopkins Univ. 1938; mem. of Faculty, Cornell Univ. 1939-61; mem. Inst. of Advanced Study, Princeton 1951-52; mem., now Prof. of Maths., Rockefeller Univ. (fmrly. Rockefeller Inst.) 1961-; Editor Transactions of the American Mathematical Soc. 1955-58; Lorentz Visiting Prof. of Theoretical Physics, Leyden 1963; Andrew D. White Prof.-at-Large, Cornell Univ. 1965-72; Chair. Div. of Math. Sciences of Nat. Research Council of Nat. Acad. of Sciences 1966-67; Guggenheim Fellow 1946-47; Sr. Visiting Fellow, Oxford Univ. 1969-, Visiting Fellow, Brasenose Coll., Oxford 1969-; Solvay Lecturer, Univ. of Brussels 1971-; mem. Nat Acad. of Sciences, American Acad. of Arts and Sciences, American Math. Soc., Math. Assen. of America, Inst. of Math., American Philosophical Soc, Royal Norwegian Acad, Trondheim; Chauvenet Prize 1950, 1968, Prize in Science, Jurzykowski Foundation 1976, Birkhoff Prize of the American Mathematical Soc. and the Soc. for Industrial and Applied Mathematics 1978. *Publications:* Probability and Related Topics in Physical Science 1959, Statistical Independence in Probability, Analysis and Number Theory 1959, Mathematics and Logic (with S. Ulam) 1968; and numerous articles on mathematical analysis, probability theory and mathematical physics. *Leisure interests:* golf, bridge. *Address:* The Rockefeller University, New York, N.Y. 10021; 6 Rectory Lane, Scarsdale, N.Y. 10583, U.S.A. (Home). *Telephone:* 914-360-1905 (Univ.); 212-GR2-2654 (Home).

KACZMAREK, Jan, DR.T.SC.; Polish scientist and politician; b. 2 Feb. 1920, Pabianice; s. of Władysław and Zofia Kaczmarek; m. Olga Steranka 1946; one s. one d.; ed. Cracow Technical Univ. and Acad. of Mining and Metallurgy, Cracow; started work at Inst. of Engineering, Cracow 1947, Pro-Rector, Rector 1965-68; Head, Dept. of Metal Working, Cracow Technical Univ. 1955-63, Asst. Prof. 1953-62, Prof. 1962-, Pro-Rector for Scientific Affairs 1966-68; Pres. Cttee. for Science and Technology 1968-72; Chair. Gen. Council Polish Fed. of Engineering Asscns. 1972-76, Vice-Chair. 1972-; Deputy Chair. Comm. of Nat. Prizes; mem. Govt. Praesidium Dec. 1971-74; mem. Praesidium and Scientific Sec. Polish Acad. of Sciences 1972-; Minister of Science, Higher Educ. and Technics 1972-74; Deputy to Seym 1972-76; Vice-Pres. CIRP, Pres. 1972-75; Pres. Coll. Int. pour l'Etude Scientifique des Techniques de Production Mécanique; Foreign mem. Bulgarian Acad. of Sciences, American Acad. of Engineering Sciences 1977-, and mem. numerous other foreign scientific socs.; mem. Cen. Cttee. PZPR 1971-75, mem. Cen. Revisional Cttee. 1975-; mem. Cen. Council of Trade Unions; Dr. h.c. Technical Univ., Karl-Marx-Stadt (German Democratic Repub.) 1973, Bauman Polytechnic, Moscow 1974; Knight's Cross of Polonia Restituta; Order Banner of Labour (2nd Class); Commdr. Cross of Order of Polonia Restituta 1974. *Publications:* Author of numerous publs. on production engineering and theory of machining by cutting, incl. Principles of Cutting Metals 1956, Theory of Machining by Cutting, Abrasion and Erosion 1970, Principles of Machining 1976. *Address:* Al. 1 Armii Wojska Polskiego, 16 m. 46, 00-582, Warsaw, Poland. *Telephone:* 20-33-80 (Office).

KACZMAREK, Zdzisław; Polish scientist; b. 7 Aug. 1928, Poznań; ed. Polytechnical Univ., Warsaw; scientific worker in Polytechnical Univ., Warsaw 1947-, Doctor of Technical Sciences 1958-

61, Assoc. Prof. 1961-67, Extraordinary Prof. 1967-72, Ordinary Prof. 1972-, now Dir. of Inst. of Environmental Engineering in Dept. of Water and Sanitary Eng.; Chief of Inst. in the State Hydro-Meteorological Inst. (PIH-M), Warsaw 1957-60, Gen. Dir. of Hydro-Meteorological Inst. 1963-66; Dir. of Inst. for Meteorology and Water Economy, Warsaw 1967-; Chair. of Cttee. of Water Economy, Polish Acad. of Sciences; mem. of Polish United Workers' Party (PZPR); Deputy mem. of Warsaw Cttee. of PZPR 1955-57, worked in Dept. of Science and Educ. of Central Cttee of PZPR, Senior Instructor 1960-63, Deputy Chief of Dept. 1966-71; member of Comm. of Science in Cen. Cttee. of PZPR; former mem. of Gen. Board of Polish Teachers' Assen. (ZNP); First Deputy Minister of Science, Higher Educ. and Tech. 1972-74; Deputy Chair. of Cen. Qualifying Comm. for Scientific Personnel, attached to Pres. of Council of Ministers; Corresp. mem. of Polish Acad. of Sciences 1971-, Deputy Scientific Sec. of Polish Acad. of Sciences, 1971-72, Sec. of VII Dept. of Polish Acad. of Sciences 1978-; Silver and Gold Cross of Merit, Chevalier's Cross of Order of Polonia Restituta and other decorations. *Publications:* numerous works on organization of scientific research and on co-operation of science and national economy. *Address:* Al. I Armii Wojska Polskiego 16, m.51, 00-582 Warsaw, Poland.

KÁDÁR, János; Hungarian politician; b. 22 May 1912, Fiume (now Rijeka, Yugoslavia); ed. secondary school; mem. Young Communist Workers Fed. 1931, illegal Communist Party 1931; helped to organize resistance movement Second World War; Deputy Police Chief 1945; Sec. Greater Budapest Party Cttee. 1945-48; Asst. Gen. Sec. Communist Party 1946-48, re-elected on merger of Communist and Social Democratic Parties to become Hungarian Working People's Party 1948-51; mem. Parl. 1945-51, 1958-; Minister of Internal Affairs 1948-50; arrested and imprisoned during Rakosi régime 1951-54; Party Sec. for Budapest District, later for County of Pest 1954-56; First Sec. Central Cttee. Hungarian Socialist Workers' Party 1956-, mem. Politburo 1956-; Prime Minister 1956-58, 1961-65; mem. Presidential Council 1965-; Minister of State 1958-61; Hero of Socialist Labour, Hero of the Soviet Union; Order of Lenin; Joliot Curie Gold Medal Award, World Peace Council 1974, Int. Lenin Peace Award 1977, For Socialism-for Peace 1978. *Publications:* Firm People's Power—Independent Hungary 1958, On the Road to Socialism 1962, Further Ahead on Lenin's Road 1964, Patriotism and Internationalism 1968, For a Socialist Hungary 1972, Selected Speeches and Articles 1974, On the Road to the Construction of the Developed Socialist Society 1975, Internationalism, Solidarity, Socialist Patriotism 1977. *Leisure interests:* reading, wild game shooting, chess. *Address:* Magyar Szocialista Munkáspárt, Széchenyi rakpart 19, H-1387 Budapest, Hungary. *Telephone:* 111-400.

KADDORI, Fakhri Yassin, DR.RER.POL.; Iraqi economist; b. 28 Aug. 1932, Baghdad; s. of Yasin Kaddori Kaddori and Rafiqa (née Abdul Kadar Kalamchi); m. Marie-Louise Classen 1965; one s. two d.; ed. Adhamiya Intermediate School and Central Secondary School, Baghdad, Coll. of Commerce and Econs. (Univ. of Baghdad), State Univ. of Iowa, Cologne Univ., Int. Marketing Inst. (Harvard Univ.); Dir. of Internal Trade, Ministry of the Economy 1964-68; Minister of the Economy 1968-71; mem. Planning Board 1968-; mem. Econ. Affairs Bureau, Revolutionary Command Council 1971-73; Chair. 1973-76, Acting Chair. 1976-; Gov., Cen. Bank of Iraq 1976-78; Chair. Iraqi Economist Assen. 1972-74, 1977-; Sec.-Gen. Arab Econ. Unity Council, Cairo May 1978-; Pres. Exec. Cttee for Professional and Popular Organizations in Iraq 1975-77. *Publications:* several articles on economic topics in professional journals. *Leisure interests:* reading, music, swimming, travelling. *Address:* Arab Economic Unity Council, Cairo (Office); 20 Aisha El-Taymouria Street, Garden City, Cairo, Egypt (Home). *Telephone:* 24293/32143 (Office); 982100 (Home).

KADER, Yehia Abdel; Egyptian diplomatist; b. 1920, Alexandria; ed. Faculty of Law, Univ. of Cairo; Sec. and Counsellor at the Egyptian Embassies in Belgrade, Khartoum, Milan; Amb. to Saudi Arabia 1964-68, to Yugoslavia 1968-71; Chair. Egyptian Radio and Television 1971; Amb. to U.S.S.R. 1971-74, to Greece 1974-. *Address:* Embassy of Egypt, 3 Leoforos Vassilissis Sofias, Athens, Greece.

KADLEC, Vladimir, JU.DR., DR.SC.; Czechoslovak economist and politician; b. 4 Oct. 1912, Prague; s. of Bohumír and Anna Kadlec; m. Prof. Věra Kadlecová, M.D. 1942; two s. one d.; ed. Law Faculty, Charles Univ., Prague; Ministry of Finance 1938-42; Nat. Bank 1945-46; Cen. Admin. of Banks 1946-48; Office of Pres. of Repub. 1948-52; Asst. Prof., Czech Technical Univ., Prague 1952-62; Prof. at School of Econs., Rector 1962-69; Minister of Educ. 1968; mem. Econ. Comm. of Cen. Cttee. of C.P. of Czechoslovakia 1963; mem. Cen. Cttee. of C.P. of Czechoslovakia 1966-69; mem. Council of Controller Gen. of Czech Socialist Repub. 1969-70; mem. Dept. of Econ. Planning, School of Econs., Prague 1969-70; signed Charter 77. *Publications:* Surplus of Purchasing Power 1946, Currency Stability 1948, Mathematical Methods in Economic Planning (trans. into German) 1959, Practical Application of Linear Planning Methods 1962, Application of Computers in Socialist Agriculture (trans. into German) 1962, Linear Programming in Transport (trans. into German) 1963, Optimalization of Production Plans in Agricultural Enterprises (trans. into Romanian) 1967, Economic Calculations on Computers in Industrial Practice 1967, etc. *Leisure interest:* writing analyses of the economic development of Czechoslovakia. *Address:* Čapajevovo náměstí 18, Prague 3-Vinohrady, Czechoslovakia (Home). *Telephone:* 737208 (Prague).

KADOMTSEV, Boris Borisovich; Soviet physicist; b. 9 Nov. 1928, Penza; ed. Moscow State Univ.; Scientist, Physics-Energetics Inst. 1952-56; Sr. Research Scientist, Kurchatov Inst. of Atomic Energy, U.S.S.R. Acad. of Sciences 1956-73; Dir. Plasma Physics Div., Kurchatov Inst. of Atomic Energy 1973-; Corresp. mem. U.S.S.R. Acad. of Sciences 1962-70, Academician 1970-; Foreign mem. Royal Swedish Acad. of Sciences; State Prize 1970. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

KADOORIE, Sir Horace, G.B.E., J.P.; Hong Kong business executive; b. 28 Sept. 1902, London, England; s. of late Sir Elly Kadoorie and Lady Kadoorie; unmarried; ed. Cathedral School, Shanghai, Ascham St. Vincents, Eastbourne, and Clifton Coll., Bristol; Partner, Sir Elly Kadoorie and Sons, Hong Kong; Chair. and Dir. numerous public companies incl. Hong Kong & Shanghai Hotels Ltd., China Light and Power Co. Ltd., Hong Kong and Kowloon Wharf and Godown Co. Ltd., Hutchinson Whampoa Ltd., Peak Tramways Co. Ltd., Hong Kong Carpet Manufacturers Ltd.; mem. and official numerous Hong Kong civic orgs.; Chevalier de la Légion d'honneur; Ramon Magsaysay Award 1962, Order of Leopold 1966, Solomon Schechter Award 1959. *Publication:* The Art of Ivory Sculpture in Cathay (7 vols.). *Leisure interests:* agriculture and gardening. *Address:* Sir Elly Kadoorie and Sons, St. George's Building, 24th Floor, Hong Kong. *Telephone:* 249221.

KADOORIE, Sir Lawrence, C.B.E., LL.D., J.P., K.ST.J.(A); Hong Kong business executive; b. 2 June 1899, Hong Kong; s. of late Sir Elly Kadoorie and Lady Kadoorie; m. Muriel Gubbay 1938; one s. one d.; ed. Cathedral School, Shanghai, Ascham St. Vincents, Eastbourne, Clifton Coll., Bristol and Lincoln's Inn, London; Partner, Sir Elly Kadoorie and Sons, Hong Kong; Chair. China Light and Power Co. Ltd., Hong Kong Engineering and Construction Co. Ltd., Franki Investments Ltd., Hong Kong Carpet Manufacturers Ltd., Major Contractors Ltd., Nanyang Cotton Mills Ltd., Schroders and Chartered Ltd., Motor Agencies Ltd.; Dir. numerous other public companies; mem. and official numerous Hong Kong civic orgs.; Solomon Schechter Award 1959; Officier de la Légion d'honneur; Officier de l'Ordre de Léopold 1966; Ramon Magsaysay Award 1962. *Leisure interests:* travel, sports cars, photography and Chinese works of art. *Address:* Sir Elly Kadoorie and Sons, St. George's Building, Hong Kong. *Telephone:* 249221.

KADOSA, Pál; Hungarian composer and pianist; b. 6 Sept. 1903, Levice, Czechoslovakia; s. of Zsigmond Weiss and Eugenia Wertheimer; ed. Budapest Acad. of Music, under Zoltán Kodály and Arnold Székely; Teacher, Fodor Music School 1927-43, Goldmark Music School 1944; Prof. 1945-, then mem. of Directors' Council, Budapest Acad. of Music; mem. Board, later Acting Chair. Fed. of Hungarian Musicians; Pres. Nat. Copyright Office; Hon. mem. Royal Acad. of Music (London) 1967; Corresp. mem. German Acad. of Arts 1970; Hon. Dr. Budapest Music Acad.; Prize of Liberty 1946, Merited Artist 1953, Kossuth Prize 1950, 1975, Erkel Prize 1955, 1962, Eminent Artist of the Hungarian People's Repub. 1963, Labour Order of Merit 1970, Order of Standard of Hungarian People's Repub. 1973. *Compositions:* for orchestra, symphonies, string quartets, violin and piano concertos, cantatas, choruses, songs; opera, Huszti Kaland. *Leisure interests:* art collector/Gothic arts. *Address:* Hungarian Academy of Music, Liszt Ferenc Place 8, Budapest VI; H-1056 Budapest V, Marcius 15 ter. 8, Hungary (Home). *Telephone:* 181-398.

KADUMA, Ibrahim Mohamed, B.SC.(ECON.), B.PHIL.; Tanzanian economist and politician; b. 1937, Mtwango Njombe, Iringa Region; s. of the late Mohamed Maleva Kaduma and of Mwanaidza Kaduma; m. Happiness Y. Mgonja 1969; three s. one d.; ed. Makerere Univ. Coll. Uganda, and Univ. of York, England; Accounts Clerk, the Treasury 1959-61, Accounts Asst. 1961, Asst. Accountant 1962-65, Economist 1965-66, Dir. of External Finance and Technical Co-operation 1967-69, Deputy Sec. Treasury 1969-70; Principal Sec. Ministry of Communications, Transport and Labour, 1970-72,

Treasury 1972-73; Dir. Inst. of Devt. Studies, Univ. of Dar es Salaam 1973-75; Minister for Foreign Affairs 1975-77; Vice-Chancellor Univ. of Dar es Salaam Feb. 1977-; Arts Research Prize, Makerere Univ., Uganda 1964-65. *Leisure interests:* tennis, squash, gardening. *Address:* Office of the Vice-Chancellor, University of Dar es Salaam, P.O. Box 35091, Dar es Salaam, Tanzania.

KAFAROV, Viktor Vyacheslavovich; Soviet chemist; b. 18 June 1914, Shyaulyay, Lithuania; ed. Kirov Chemical Technology Inst., Kazan; Engineer at designing org. in aniline industry 1938-40; Postgraduate, Research Assoc. Colloid-Electrochemical Inst. U.S.S.R. Acad. of Sciences 1940-44; Asst. Prof. 1945-52, Prof. 1953-60, Head of Chair 1960-, Mendeleyev Inst. of Chemical Technology; mem. CPSU 1952-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-; Order of the Red Banner and other decorations. *Publications:* Works on chemical technology, mathematical modelling of chemical technology processes. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

KAFKA, Alexandre; Brazilian professor of economics; b. 25 Jan. 1917; s. of late Bruno and of Jana Kafka (née Bondy de Bondrop); m. Rita Petschek 1947; two d.; Prof. of Econs., Univ. de São Paulo 1941-46; Adviser to Brazilian Del. to Preparatory Cttee. and Conf. of Int. Trade Org. 1946-48; Asst. Div. Chief, Int. Monetary Fund (IMF) 1949-51, Temp. Alt. Gov. 1954-55, Exec. Dir. 1966-, Vice-Chair. Deputies of Cttee. on Reform of Int. Monetary System and Related Matters 1972-74; Adviser, Superintendency of Money and Credit (now Banco Central do Brasil); Dir. of Research, Brazilian Inst. of Econs. 1951-54, Dir. 1961-63; Chief Financial Inst. and Policies Section, UN 1956-61; Prof. of Econs., Univ. of Va., U.S. 1959-60, 1963-75; Visiting Prof. of Econs., Boston Univ. 1975-; Adviser to Minister of Finance 1964. *Address:* International Monetary Fund, 700-19th Street, N.W., Room 13-210, Washington, D.C. 20431; 4201 Cathedral Avenue, N.W., Washington, D.C. 20016 (Apt. 805-E), U.S.A. *Telephone:* 4773048 (Office); 3621737 (Home) and 804-296-0525 (Charlottesville, Va.).

KÄHLER, Erich Ernst, DR.PHIL.; German mathematician; b. 16 Jan. 1906, Leipzig; s. of Ernest and Elsa Kähler (née Götsch); m. 1st Luise Günther 1938 (died 1970), two s. (one deceased) one d.; m. 2nd Charlotte Schulze 1972; ed. Universität Leipzig; Lecturer Hamburg 1930; Prof. Univ. Königsberg 1936; Prof. (with Chair) Univ. Leipzig 1948; Prof. Technische Univ. Berlin 1958; Prof. Univ. Hamburg; Hon. Prof. Technische Univ. Berlin 1964, Emer. 1964-; mem. Akademie der Wissenschaften der D.D.R., Sächsische Akad. der Wissenschaften and Deutsche Akad. der Naturforscher Leopoldina; Foreign mem. Accad. Nazionale dei Lincei 1961-. *Publications:* Einführung in die Theorie der Systeme von Differentialgleichungen 1934, Geometria Aritmetica 1958, Der innere Differentialkalkul 1963, Wesen und Erscheinung als mathematische Prinzipen der Philosophie 1965, Saggio di una dinamica della vita 1973, Monadologie 1978. *Address:* Mozartstrasse 42, 2 Wedel, Holstein, Federal Republic of Germany. *Telephone:* (04103) 86535.

KÄHLER, Otto; German bank official; b. 17 April 1905, Landkirchen; s. of Heinrich Kähler and Gertrude (née Haltermann) Kähler; m. Lotte Weisse 1938; two d.; ed. Classical High School; Junior Bank Officer, Deutsche Reichsbank 1931-38; Reichsbank, Berlin 1941; mem. Berlin Stock Exchange; Dir. Deutsche Reichsbank 1948; Dir., mem. Management Board, Landeszentralbank, Kiel 1951-58; Vice-Pres. Landeszentralbank Hessen, Frankfurt 1958-59; Pres. Landeszentralbank, Schleswig-Holstein, mem. Federal Bank Council 1960-73. *Leisure interests;* hunting, yachting. *Address:* 10 Luisenweg, 23 Kiel 1, Federal Republic of Germany. *Telephone:* Kiel (0431) 56-27-94.

KAHN, Baron (Life Peer), cr. 1965, of Hampstead; **Richard Ferdinand Kahn,** C.B.E., M.A.; British economist; b. 10 Aug. 1905; s. of Augustus and Rosa Kahn; ed. St. Paul's School and King's Coll., Cambridge; employed in various govt. depts. 1939-46; Prof. of Econs., Cambridge Univ. 1951-72; on leave of absence to work in UN Econ. Comm. for Europe 1955; Fellow of King's Coll., Cambridge, British Acad. *Publications:* numerous articles, Selected Essays on Employment and Growth 1973. *Leisure interest:* mountain walking. *Address:* King's College, Cambridge CB2 1ST, England.

KAHN, Alfred E., M.A., LL.D.; American economist and government official; b. 17 Oct. 1917, Paterson, N.J.; s. of the late Jacob M. and Bertha Orlean; m. Mary Simmons 1943; three c.; ed. New York Univ. and Graduate School, Univ. of Missouri, Brookings Inst., Yale Univ.; Research Staff of Brookings Inst. 1940, 1951-52; joined U.S. Govt. Service with Antitrust Div., Dept. of Justice, Dept. of Commerce, War Production Board 1941-43; Research Staff, 20th Century Fund 1944-45; Asst. Prof. Dept. of Econs., Ripon Coll., Wis. 1945-47; joined Dept. of Econs., Cornell Univ. as Asst. Prof. 1947, Chair. Econs. Dept. 1958-63, Robert Julius Thorne Prof. of Econs. 1966-, mem. Board of Trustees 1964-69, Dean Coll. of Arts and Sciences 1969-74; Chair. New York Public Service Comm. 1974-77, Civil Aeronautics Board 1977-78; Adviser to the Pres. on Inflation and Chair. Council on Wage and Price Stability 1978-; mem. American Acad. of Arts and Sciences; Hon. LL.D. (Colby Univ.). *Publications:* Great Britain and the World Economy 1946, (co-author) Fair Competition, the Law and Economics of Antitrust Policy 1954, (co-author) Integration and Competition in the Petroleum Industry 1959, The Economics of Regulation (two vols.) 1970, 1971. *Leisure interests:* sports, dramatics, music. *Address:* 726 Jackson Place, N.W., Washington, D.C. 20506 (Office); 910 Independence Avenue, S.E., Washington, D.C. 20003, U.S.A. (Home).

KAHN, Herman, B.A., M.S.; American mathematician; b. 15 Feb. 1922; one s. one d.; ed. Univ. of California (Los Angeles) and California Inst. of Technology; Mathematician, Douglas Aircraft 1945-46, Northrup Aviation 1947; Research Analyst, RAND Corpn. 1947-59; Lecturer, Center for Int. Studies, Princeton 1959; Dir., Hudson Inst. 1961-; Consultant to Boeing Aircraft, Office of Defense Mobilization, System Development Corpn., Planning Research Cttee., Stanford Research Inst., Scientific Advisory Board to U.S. Air Force etc. *Publications:* On Thermonuclear War 1960, Thinking about the Unthinkable 1962, On Escalation 1965 (with Anthony Wiener), The Year 2000 1967, Can We Win in Vietnam (with others) 1968, Why ABM (with others) 1969, The Emerging Japanese Superstate 1970, Things to Come (co-author) 1972, The Future of the Corporation (editor) 1974, The Next 200 years (with others) 1976. *Address:* Hudson Institute, Quaker Ridge Road, Croton-on-Hudson, N.Y. 10520 (Office); 19 Birch Lane, Chappaqua, New York, U.S.A.

KAHN-ACKERMANN, Georg; German journalist, broadcaster and politician; b. 4 Jan. 1918, Berlin-Charlottenburg; m. Rosmarie Müller-Diefenbach 1945; one s. three d.; mem. Social Democratic Party (Sozialdemokratische Partei Deutschlands—SPD) 1946-; mem. Bundestag 1953-57, 1962-69, 1970-74; Vice-Pres. Admin. Council Deutschlandfunk; Pres. Political Comm., Western European Union; Vice-Pres. Assembly, Council of Europe 1973-74: Sec.-Gen. Council of Europe 1974-. *Leisure interests:* archaeology, horse riding. *Address:* Office of the Secretary-General, Council of Europe, Avenue de l'Europe, 67006 Strasbourg, France. *Telephone:* (88) 614961.

KAI, Fumihiko; Japanese businessman; b. 17 May 1912; s. of Ryozo and Chiyo Kai; m. Ayako Kimura 1947; one s. two d.; ed. Tokyo Univ.; Consul-Gen., Jakarta 1952-55; Deputy Rep. of Japan to 9th Session of ECAFE Conf., Bandung 1953; Counsellor, The Hague 1953-55; Consul-Gen., Berlin 1955-57, Hamburg 1957-58; Dir. Japan External Trade Org. 1958-61; Counsellor, Ministry of Foreign Affairs 1961, Dir. Econ. Co-operation Bureau, Ministry of Foreign Affairs 1961; fmr. Amb. to Malaysia; Amb. to Australia until 1970; Amb. to Federal Repub. of Germany 1970-73, retd. 1973; Man. Dir. Nissin Sugar Mfg. Co. 1973-; Panglima Mangku Negara (Malaysia); Gran Oficial Al Merito (Argentina); Grosskreuz (Fed. Republic of Germany). *Leisure interests:* golf, music. *Address:* 10-14 2-chome, Hatanodai, Shinagawa-ku, Tokyo, Japan. *Telephone:* (03) 782-0175.

KAIFU, Toshiki; Japanese politician; b. 1932; elected to House of Reps. six times; Parl. Vice-Minister of Labour; Chair. Steering Cttee. of House of Reps.; various posts in admin. of Takeo Miki (*q.v.*) 1974-76, incl. Deputy Chief Cabinet Sec., Chair. of Diet Policy Cttee. of Liberal Democratic Party (LDP); Minister of Educ. 1976-77. *Address:* House of Representatives, Tokyo, Japan.

KAIM, Franciszek, B.ENG.; Polish politician; b. 13 Feb. 1919, Wola Drwińska; ed. Acad. of Mining and Metallurgy, Cracow; labourer, then accountant, in agriculture and forestry 1939-45; worked at "Bobrek" foundry, later Chief Man. at "Małapanew" foundry 1948-53; Under-Sec. of State, Ministry of Metallurgy 1953-57, Ministry of Heavy Industry 1957-64; Deputy Minister of Heavy Industry and Metallurgy 1964-67, Minister of Heavy Industry 1967-70, of Metallurgy March 1976-; Vice-Pres. Council of Ministers 1970-; mem. Polish United Workers' Party 1951-, Alt. mem. Cen. Cttee. PUWP 1968-71, mem. Cen. Cttee. 1971-; Deputy to Seym 1972-; Perm. Rep. to CMEA 1978-, mem. Exec. Cttee. 1978-; Order of Banner of Labour (1st Class), Commdr's Cross, Order of Polonia Restituta. *Address:* Urząd Rady Ministrów, Aleje Ujazdowskie 1/3, 00-583 Warsaw, Poland.

KAISER, Edgar Fosburgh; American industrialist; b. 29 July 1908, Spokane, Washington; s. of Henry J. and Bessie (Fosburgh) Kaiser; m. 1st Sue Mead 1932 (died 1974), three s. three d.; m. 2nd Nina McCormick 1975; ed. Univ. of California; Construction Supt.

nat. gas line Kansas to Texas 1930-32; Shift Supt. Boulder Dam, Nev. 1932-33; Admin. Man. Columbia Construction Co., Bonneville Dam, Bonneville, Ore. 1934-38; Consolidated Builders Inc., Grand Coulee Dam, Washington 1938-41; Vice-Pres., Gen. Man. Oregon Shipbuilding Corpn. and Kaiser Co. Inc., Portland, Ore. and Vancouver, B.C. 1941-45; Dir. and Pres. Kaiser Motors Corpn. 1945-56; Pres. Kaiser Industries Corpn. 1956-57; fmr. Chair. now Chair. Emer. and Hon. Dir. Kaiser Aluminium and Chem. Corpn., Kaiser Cement and Gypsum Corpn. and Kaiser Resources Ltd.; Chair. Kaiser Steel Corpn., Kaiser Foundation Health Plan Inc., Kaiser Foundation Hospitals; Chair., mem. board of dirs., and trustee numerous orgs., presidential cttees., schools, etc.; Fellow, American Acad. of Arts and Sciences 1970; Hon. LL.D. (Univ. of Portland, Mills Coll.); Hon. L.H.D. (Calif.); Commdr. Nat. Order Southern Cross, Brazil 1965; Grand Officer Repub. of the Ivory Coast 1972; Industrialist of the Year Award 1966, Hoover Medal 1969, and numerous other awards and honours. *Address:* Kaiser Steel Corporation, Kaiser Building, 300 Lakeside Drive, Oakland, Calif. 94666, U.S.A. *Telephone:* 415-271-2311.

KAISER, Khwaja Mujammad; Bangladesh diplomatist; b. 13 Sept. 1918; ed. Dacca Univ.; Indian Police Service 1941-50; Second Sec. Deputy High Comm. for Pakistan, Calcutta 1950; Deputy Sec. Ministry of External Affairs, Dacca 1950-51; Deputy Sec. Ministry of External Affairs, Karachi 1951-55; Counsellor, Peking 1955-57; Consul-Gen., New York 1957-60; Minister, Washington 1960-62; High Commr. in Australia and New Zealand 1962-65; Dir.-Gen. Ministry of Foreign Affairs, Pakistan 1965-66; Amb. to Sweden, Norway, Denmark, Finland 1966-68, to People's Repub. of China, also accred. to Mongolia 1969-73, to Burma, also accred. to Thailand, Singapore, Democratic Repub. of Viet-Nam 1973-76; Perm. Rep. to U.N. 1976-; awarded Sitara-e-Quaid-e-Azam 1962. *Address:* 130 East 40th Street, 5th Floor, New York, N.Y. 10016, U.S.A.

KAISER, Philip M., A.B., M.A.; American diplomatist, publisher and banker; b. 12 July 1913, New York; s. of Morris and Temma Kaiser; m. Hannah Greeley 1939; three s.; ed. Univ. of Wisconsin and Balliol Coll., Oxford (Rhodes Scholar); Federal Reserve System 1939-42, Board of Econ. Warfare 1942-46; joined Research Planning Div. Dept. of State 1946; Exec. Asst. to Asst. Sec. of Labor (Int. Labor Affairs) 1946-47; Dir. Office of Int. Labor Affairs, Dept. of Labor 1947-49; Asst. Sec. of Labor 1949-53; Labor Adviser, Comm. for Free Europe 1953-54; Special Asst. to Gov. of New York 1955-58; Prof. of Int. Labor Relations, American Univ. 1958-61; Amb. to Senegal and Mauritania 1961-64; Minister, American Embassy in London 1964-69; Amb. to Hungary 1977-; Chair. and Man. Dir. Encyclopaedia Britannica Int. Ltd., London 1969-75; mem. Board, Guinness Mahon Holdings Ltd. 1975-77. *Leisure interests:* tennis, swimming, music, ballet, theatre. *Address:* American Embassy, Szabadság tér 12, Budapest, Hungary. *Telephone:* 124-224.

KAISSI, Fawzi al-, PH.D.; Iraqi financial and government official; b. 1929, Baghdad; ed. Univ. of Baghdad and Univ. of Southern California, U.S.A.; Prof., Univ. of Baghdad; Man. of Nationalized Banks 1964, then ■ Man. of Rafidain Bank until 1970; Man. Union de Banques Arabes et Françaises (UBAF), Paris 1970-73; Gov. Cen. Bank of Iraq 1973; Gen. Sec. of Arab Economists' Fed. 1974; Minister of Finance Dec. 1975-. *Address:* Ministry of Finance, Baghdad, Iraq.

KAISSOUNI, Abdel Moneim, B.COM., B.SC., PH.D.; Egyptian financial administrator and politician; b. 1916; ed. Univ. of Cairo and L.S.E.; with Barclays Bank, England 1942-43; Lecturer and Asst. Prof. of Econ., Univ. of Cairo 1944-50; Adviser to Council of Ministers for Post-War Affairs 1944-45; Deputy Dir.-Gen. of Foreign Affairs in Ministry of Nat. Economy 1949-50; Dir. Middle East Dept. Int. Monetary Fund, Washington, and later Chief Technical Rep. in Middle East 1946-50; with Nat. Bank of Egypt 1950-54; Deputy Minister Finance and Economy 1954, Minister 1954-58; mem. Nat. Assembly 1957; Minister of Economy and Commerce for Egypt in U.A.R. 1958; Minister of Economy, U.A.R. Central Govt. 1958-62, Minister of Treasury and Planning 1962-64; Chair. Board of Econ. Orgs. 1959; Deputy Prime Minister for Econ. Affairs and Finance and Minister of Econ. and Foreign Trade 1964-65; Chair. Econ. Policy Cttee., Nat. Econ. Council 1974-; Pres. UN Conf. on Trade and Devt., Geneva 1964; Deputy Prime Minister for Financial and Econ. Affairs 1965-66; Minister of Planning 1967-68; Deputy Prime Minister for Financial and Econ. Affairs 1976-78, also Minister of Planning 1977-78; Chair. Arab Int. Bank 1971-76, 1978-; Chair. European Arab Holdings, Brussels, Frankfurt, Luxembourg 1972-; Chair. Arab Int. Co. for Hotels and Tourism 1976-; Chair. Co. Arabe de Financement International, Luxembourg 1976-. *Address:* 23 Sesostris Street, Heliopolis, Cairo, Egypt (Home). *Telephone:* 835835 (Home).

KAKITSUBO, Masayoshi; Japanese diplomatist; b. 8 Aug. 1907; s. of Kumataro Kakitsubo and Moto Kakitsubo; m. Noriko Kakitsubo 1947; one s. two d.; ed. Univs. of Hitotsubashi and Cambridge (England). Minister, Perm. Mission of Japan at UN 1957-61, Amb. in charge of econ. and social affairs 1961-62; Amb. to Pakistan 1962-65, to U.A.R. 1965-67, to Switzerland 1967-69; Dir. UN Asian Inst. for Econ. Devt. and Planning, Bangkok 1970-74. *Leisure interests:* swimming, golf. *Address:* c/o UN Asian Institute for Economic Development and Planning, P.O. Box 2-136, Sri Ayudhya Road, Bangkok, Thailand. *Telephone:* 815400.

KĄKOL, Kazimierz, D.ECON.; Polish politician and journalist; b. 22 Nov. 1920, Warsaw; ed. Univ. of Łódź. Teacher in resistance during German occupation; mem. Home Army (AK) taking part in Warsaw uprising 1944; worked in science faculty of Łódź Univ., then in Inst. of Legal Sciences of Polish Acad. of Sciences (PAN) 1945-68; Asst. Prof., Inst. of Journalism, Warsaw Univ. 1968-75, Dir. 1973-74, Extraordinary Prof. 1975-; Editor-in-Chief, Prawo i Zycie (Law and Life) weekly 1957-74; mem. Congress of Int. Fed. of Resistance Movements (FIR); mem. Cen. Council of Int. Assen. of Democratic Lawyers; Under-Sec. of State, Head of Bureau for Denominational Affairs May 1974, Minister May 1974-; alt. mem. Cen. Cttee. of Polish United Workers' Party (PZPR) 1971-; numerous decorations. *Address:* Urząd do Spraw Wyznań, Krakowskie Przedmieście 50, 00950 Warsaw, Poland.

KAŁASA, Tadeusz; Polish craftsman and politician; b. 17 Sept. 1917 Warsaw; s. of Aleksander and Janiná Tadeusz; m. Janina Tadeusz 1944; three c.; trained in baker's trade 1936-39, worked ■ baker, Warsaw 1939-, owner of bakery 1957-; mem. Democratic Party (SD) 1948-, mem. SD District Cttee., Warsaw-Wola 1965-68, mem. Capital Cttee. and Presidium 1968-, Deputy Chair. SD Cen. Cttee. 1976-; founder and fmr. Chair. SD Circle attached to Bakers' Guild, Warsaw; mem. Presidium of Capital Cttee. Nat. Unity Front (FJN); Pres. Council Warsaw Craft Chamber 1974; numerous hon. professional awards, Order of Polonia Restituta, Gold Cross of Merit. *Address:* Centralny Komitet Stronnictwa Demokratycznego, ul. Rutkowskiego 9, 00-021 Warsaw; Racławicka 7-3, Warsaw 02-601, Poland. *Telephone:* 45-24-76.

KALCKAR, Herman Moritz; Danish biochemist; b. 26 March 1908, Copenhagen, Denmark; s. of Ludvig Kalckar and Bertha Melchior; one s. two d.; ed. Univ. of Copenhagen; Assoc. Prof. Inst. of Medical Physiology, Univ. of Copenhagen 1938-43, Research Prof. of Cytophysiology 1949; Visiting Scientist, Nat. Inst. of Health 1953; Prof. of Biology, Johns Hopkins Univ. 1958; Prof. of Biological Chem., Harvard Medical School, and Chief, Biochemical Research, Mass. Gen. Hospital 1961-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Foreign mem. Royal Danish Acad.; mem. Harvey Soc. and Harvey Lecturer 1949-50; First Weigle Memorial Lecturer, Calif. Inst. of Tech. 1970; Prof. Emer. Harvard Univ. 1974; Fogarty Scholar, Nat. Inst. of Health 1975; mem. Huntington Laboratories, Mass. Gen. Hospital; Hon. D.Sc. (Washington, St. Louis, Chicago, Copenhagen). *Publications:* Biological Phosphorylations Development of Concepts 1969, The Role of Nucleotides for the Function and Conformation of Enzymes 1969; scientific papers on Cell Physiology, Cellular Physiology (Assoc. Ed.) 1976. *Address:* 16 Channing Street, Cambridge, Mass. 02138, U.S.A. (Residence). *Telephone:* 617 354-4222.

KALDOR, Baron (Life Peer), cr. 1974, of Newnham in the City of Cambridge; **Nicholas Kaldor,** M.A., F.B.A., B.SC. (ECON.); British economist; b. 12 May 1908; ed. Model Gymnasium, Budapest, L.S.E.; Asst. Lecturer, Lecturer and Tutor, Reader, L.S.E. 1932-47; war service U.S. Strategic Bombing Survey, British Bombing Survey Unit; Dir. Research and Planning Division, U.N. Econ. Comm. for Europe 1947-49; Lecturer, later Reader and Prof. of Econs. Cambridge Univ. 1949-75; Fellow of King's Coll., Cambridge 1949-; mem. Royal Comm. on the Taxation of Profits and Income 1950-55; Survey on Indian Tax Reform, Govt. of India 1956; Taxation of Mexico 1960; Econ. Adviser Govt. of Ghana 1961; Fiscal Adviser Govt. of British Guiana 1961, Govt. of Turkey 1962, Reserve Bank of Australia 1963; Special Adviser to Chancellor of Exchequer 1964-68, 1974-76; Dr. h.c. (Dijon); Hon. Fellow, London School of Econs. 1970. *Publications:* An Expenditure Tax 1955 (with S. Silverman), A Statistical Analysis of Advertising Expenditure 1946, Essays in Value and Distribution 1960, Essays in Economic Stability and Growth 1960, Ensayos sobre Desarrollo Económico (Mexico) 1961, Essays on Economic Policy (2 vols.) 1964, Causes of the Slow Rate of Growth of the United Kingdom, Conflicts in Policy Objectives 1971, Further Essays on Economic Theory, Further Essays on Applied Economics 1978. *Address:* King's College, Cambridge, England.

KALINOWSKY, Lothar Bruno, M.D.; American neuropsychiatrist; b. 28 Dec. 1899, Berlin, Germany; s. of Alfred Kalinowsky

and Anna Schott; m. Hilda Pohl 1925; two d.; ed. Berlin, Heidelberg and Munich Univs.; Asst. in Neuropsychiatry at hospitals in Berlin, Hamburg, Breslau, Vienna 1922-32, Rome 1933-39; Clinical Prof. of Psychiatry, New York Medical Coll.; Assoc. Prof. of Neuropsychiatry, New York School of Psychiatry; Consultant Psychiatrist, St. Vincent's Hospital, New York 1957-; Hon. Prof. of Psychiatry, Free Univ., Berlin; Hon. mem. German Soc. for Neurology and Psychiatry; Corresp. Fellow, Royal Coll. of Psychiatry. *Publications:* Somatic Treatments in Psychiatry (with Paul H. Hoch and Brenda Grant) 1961; Pharmacological, convulsive and other somatic treatments in psychiatry (with Hans Hippius) 1969. *Leisure interest:* travelling. *Address:* 155 East 76th Street, New York, N.Y. 10021, U.S.A. *Telephone:* RE 7-0800.

KÁLLAI, Gyula; Hungarian journalist and politician; b. 1 June 1910, Berettyóujfalu; s. of Sándor Kállai and Eszter Kiss; m. Gabriella Alnoch 1957; two d.; joined Hungarian Communist Party 1931; as a student active in left-wing univ. movements in Budapest and Debrecen; helped to organize prewar March Front Movement; one of leaders and organizers Hungarian Historical Memorial Cttee; mem. Editorial Board of Népszava, organ of Social Democratic Party 1939-44; Rep. Communist Party, Hungarian Front Exec. Cttee.; co-signatory to the agreement for amalgamation of Hungarian Communist Party and Social Democratic Party; Leader Dept. of Agitation and Propaganda, H.C.P. 1945-; Editor Szabadság; mem. Parl. 1945-; Sec. of State Prime Minister's Office 1945; Head Party Intellectual Dept. 1947-49; Minister for Foreign Affairs 1949-51; mem. Cen. Cttee., Hungarian Socialist Workers' Party 1956-, mem. Politburo 1956-75; Pres. of the Nat. Council of the Patriotic People's Front 1958-; Deputy Minister of Culture 1955-56; Minister of Culture 1957-58; Minister of State 1958-60; First Deputy Prime Minister 1960-65; Prime Minister 1965-67; Speaker of Nat. Assembly 1967-70; mem. Presidential Council; Pres. Hungarian Nat. Cttee. for European Peace and Co-operation; Dr. h.c. Kossuth Univ., Debrecen 1975. *Publications:* For Socialist Culture 1958, Socialism and Culture 1962, The Hungarian Movement for Independence 1939-45 1965, Socialism—People's Front—Democracy 1971, The Birth of our Freedom 1973, Yesterday as Seen From Today 1976, Four Decades of the Hungarian People's Front 1977, Our Place in the World 1977. *Leisure interests:* fine arts, literature, theatre. *Address:* The National Council of Patriotic People's Front, Budapest 5, Belgrád rakpart 24, Hungary. *Telephone:* 182-8515.

KALLÓS, Ödön; Hungarian commercial official; b. 6 Feb. 1917, Györ; s. of Ernö Kallós and Olga László; m. Hedvig Gárdonyi 1952; one d.; Commercial Attaché, Egypt 1948, later Trade Counsellor until 1955; Deputy Dir. MOGÜRT Hungarian Trading Co. for Motor Vehicles 1955-56; Commercial Counsellor and Head of Hungarian Trade Comm. to India 1956-59; Pres. Hungarian Chamber of Commerce 1959-; Co-Chair. Liaison Cttee. with Chambers of Commerce of socialist countries, Int. Chamber of Commerce, Paris 1975-; Labour Order of Merit, golden degree 1958, 1969, and other decorations. *Leisure interests:* rowing, tourism. *Address:* Hungarian Chamber of Commerce, Kossuth Lajos tér 6-8, H-1389 Budapest V, Hungary. *Telephone:* 314-155.

KALMBACH, Leland J.; American insurance executive; b. 30 April 1901; ed. Univ. of Michigan; joined Cleveland Life Ins. Co. 1923; with Lincoln Nat. Life Insurance Co., Fort Wayne, Ind. 1924-47; Vice-Pres. 1939-47, 1st Vice-Pres. 1947, Dir. 1937-47; Vice-Pres. Mass. Mutual Life Insurance Co., Springfield, Mass. 1948-50, Pres. 1950-62, Chair. 1962-66, Hon. Chair.1966-; Dir. Sheraton Corpn. of America; Dir. N.E. Telephone and Telegraph Co.; official of several professional and civic orgs. *Address:* 1295 State Street, Springfield, Mass. 01101, U.S.A.

KAMALADEVI, Chattopadhyay; Indian politician and social worker; b. 3 April 1903, Mangalore; d. of Ananthayya and Girijahai Kamaladevi; m. Harindranath Chattopadhyay 1919; ed. Mangalore, Bedford Coll. London, and London School of Econs.; joined Congress; elected to AICC 1927; Organizing Sec. and Pres. All-India Women's Conf.; imprisoned 1930, 1932, 1934 and 1942; founded Indian Co-operative Union to rehabilitate refugees through co-operatives 1948; Chair. All-India Handicrafts Board 1952; Vice-Chair. Sangeat Natak Akad.; Pres. Theatre Centre of India; helped to found World Crafts Council and is its Senior Vice-Pres.; Indian and foreign awards and Gold Medals; awarded 'Deshikotlama' by Vishwa Bharati Univ. at Shantinckatan 1970. *Publications:* In Wartorn China, Japan: Its Weakness and Strength, Socialism and Society, America, the Land of Superlatives, Uncle Sam's Empire, Indian Handicrafts, Carpets and Floor Coverings of India. *Leisure interests:* designing, reading, travelling. *Address:* Bharatiya Natya Sangh, 34 New Central Market, New Delhi; Flat No. 6, Chateau Marine, Subhas Road, Bombay, India. *Telephone:* New Delhi 386408; Bombay 299676.

KAMANA, Dunstan Weston; Zambian diplomatist; b. 19 April 1937, Choma; m.; four c.; ed. St. Mark's Coll., Mapanza; joined N. Rhodesian Govt. Service 1959; Information Officer, Zambia Information Service 1964; First Press Sec. at High Comm. in U.K. 1964, to Pres. of Zambia 1965; Asst. Sec. Ministry of Defence 1965-66; Dir. of Zambia Information Services 1966-68, of Zambia Information and Broadcasting Services 1968-72; Editor-in-Chief, Times of Zambia 1968-72; Gen. Man. Dairy Produce Board 1972; Amb. to U.S.S.R. 1972-74; High Commr. in Canada 1974-75; Perm. Rep. to UN 1975-77. *Address:* c/o Ministry of Foreign Affairs, Lusaka, Zambia.

KAMANDA WA KAMANDA, L. en D.; Zairian lawyer and administrator; b. 10 Dec. 1940, Kikwit; s. of Raphaël Kamanda and Germaine Kukikidika; two s. one d.; ed. Coll. St. Ignace de Kiniati, Coll. Notre Dame de Mbansa Boma, Univ. Lovanium, Kinshasa; Lawyer, Court of Appeal 1964-; Legal Adviser, Féd. congolaise des travailleurs 1964-65; Prof. Inst. Nat. d'Etudes Politiques 1965-66; Legal Adviser to Presidency of Repub. 1965-66, Sec.-Gen. 1966-67; Principal Adviser with responsibility for legal, administrative, political and diplomatic affairs to Presidency of Repub.; Dir. de Cabinet to Sec.-Gen. of Org. of African Unity 1967-72, Asst. Sec.-Gen. 1972-78; Assoc. mem. Office Nat. de la Recherche Scientifique et du Développement; Vice-Pres. Zairian section, Soc. Africaine de la Culture; del. to several int. confs. *Publications:* Essai-critique du système de la criminalité d'emprunt 1964, Négritude face au devenir de l'Afrique 1967, L'Université aujourd'hui en Afrique 1969, L'Intégration juridique et le développement harmonieux des nations africaines 1969, L'Incidence de la culture audio-visuelle sur le phénomène du pouvoir 1970, Les organisations africaines Vol. I: L'OUA ou la croisade de l'unité africaine 1970, Vol. II: 1970, Le défi africaine—une puissance économique qui s'ignore 1976, L'Enracinement-culture et progrès 1976. *Address:* B.P. 9312, 225 avenue Gerbeira, Kinshasa 1, Zaire.

KAMANGA, Reuben Chitandika; Zambian politician; b. 26 Aug. 1929, Chitandika Village, Chipata District, Eastern Province of Zambia; m. Edna Mwansa 1963; three s. three d.; ed. Munali; imprisoned several times for political reasons 1952-60; lived in Cairo 1960-62; Deputy Pres. United Nat. Ind. Party; fmr. Minister of Labour and Mines; Minister of Transport and Communications 1964; Vice-Pres. 1964-67; Leader of House, National Assembly 1964-67; Minister of Foreign Affairs 1967-69, of Rural Devt. 1969-73; mem. Cen. Cttee. United Nat. Independence Party (UNIP), Chair. Rural Devt. Sub-Cttee. 1973-76, Cttee. on Politicial, Constitutional, Legal and Foreign Affairs 1975-. *Leisure interests:* football, dancing (traditional), music, gardening, hunting. *Address:* UNIP, Freedom House, P.O. Box 302, Lusaka, Zambia. *Telephone:* 74321.

KAMARA-TAYLOR, Christian Alusine; Sierra Leonean politician; b. 3 June 1917, Ka-Hanta, Tonko Limba Chiefdom, Kambia District; ed. School of Accountancy, London; served as Clerk in the Marampa Mines, Sierra Leone Devt. Co. before joining the Sierra Leone Regt.; Sergeant/Quartermaster World War II; joined the United Africa Co. Ltd. after briefly serving in the Civil Service, and later became Sec. and Public Relations Officer; M.P. 1962-; Minister of Lands, Mines and Labour 1968-72, of Finance 1971-75, Minister of the Interior 1975-77, Prime Minister 1975-78, Second Vice-Pres. June-Dec. 1978, First Vice-Pres. Dec. 1978-, Minister of Housing and Country Planning June 1978-; Sec.-Gen. All People's Congress; mem. Kambia District Council; Burma Star, Defence Medal. *Address:* Office of the First Vice-President, Freetown, Sierra Leone.

KAMARCK, Andrew Martin, B.S., M.A., PH.D.; American international bank official; b. 10 Nov. 1914, Newton Falls, New York; s. of Martin Kamarck and Frances Earl; m. Margaret Goldenweiser Burgess 1941; one s. two d.; ed. Harvard Univ.; International Section, Fed. Reserve Board 1939-40; Confidential Asst. to Sec. of U.S. Treasury 1940-42; U.S. Army 1942-44; Cen. Banking Adviser, Allied Control Comm., Italy 1943-44; Chief, Financial Intelligence, and American Deputy on Allied Finance Directorate, Allied Control Council, Germany 1945; Office of Int. Finance, U.S. Treasury, Chief of Nat. Advisory Council on Int. Monetary and Financial Problems (N.A.C.) Div., Financial Policy Cttee. preparing Marshall Plan 1945-48; U.S. Treasury Rep., Rome 1948-50; Chief of Africa section, Econ. Dept., World Bank 1950-52; Econ. Adviser, Dept. of Operations, Europe, Africa and Australasia, World Bank, Chief of Econ. Missions to 14 countries, 1952-64; Dir. Econ. Dept., World Bank 1965-71; Dir. Econ. Devt. Inst. 1972-77, Sr. Fellow 1977-78; mem. American Econ. Assn., Council on Foreign Relations; Dir. African Studies Assn. 1961-64; Visiting Fellow, Harvard Inst. Int. Devt. 1977-80; Regents Prof., Univ. of Calif. 1964-65; Council, Soc. for Int. Devt. 1967-70, 1973-76. *Publications:* The Economic Devel-

opment of Uganda (co-author) 1961, The Economics of African Development 1967, The Tropics and Economic Development 1976, La Politica Finanziaria Degli Alleati in Italia 1977. *Leisure interests:* sailing, skiing. *Address:* International Bank for Reconstruction and Development, Washington, D.C. 20433 (Office); 118 Pine Ridge Road, RR1, Brewster, Mass. 02631, U.S.A. (Home). *Telephone:* 385-8221 (Home).

KAMATH, Hari Vishnu, B.SC.; Indian politician; b. 13 July 1907, Mangalore, Karnataka State; s. of Rama and Anandibai Kamath; ed. Mangalore and Presidency Coll., Madras; joined Indian civil service in London 1929; served I.C.S. 1930-38; resigned for political reasons; joined Congress and then the Forward Bloc ■ Sec.-Gen.; in prison 1940-41, 1942-45; ■■■ Constituent Assembly 1946-49, ■■■ Nagpur Provincial Congress Cttee.; ■■■ Provisional Parl. 1950-52; ■■■ Nat. Exec. Praja Socialist Party 1953-71; Praja Socialist Member of Lok Sabha 1955-57, 1962-67; Chair. Praja Socialist Party, Madhya Pradesh 1958-60; mem. Nat. Cttee. Socialist Party 1971-76; Janata Party 1977-; mem. Lok Sabha 1977-, Chair. Cttee. on Petitions 1977-; Chair. Cen. Parl. Board, Praja Socialist Party 1965-70; mem. Admin. Reforms Comm., Govt. of India 1966-70; contested election to office of Vice-Pres. of India as Opposition Party candidate Aug. 1969; Alt. Leader, del. to UN Gen. Ass. 1977. *Publications:* Communist China colonises Tibet, invades India 1959, Principles and Techniques of Administration 1971, The Last Days of Jawaharlal Nehru 1977. *Leisure interests:* reading (philosophy, yoga, English and Sanskrit literature), writing, hiking. *Address:* 139 Parliament House, New Delhi; Dhantoli, Nagpur, India. *Telephone:* 377703 (New Delhi); 22359 (Nagpur).

KAMEI, Masao; Japanese business executive; b. 20 April 1916, Kobe City, Hyogo Pref.; ed. Tokyo Univ.; Director Sumitomo Electric Industries Ltd. 1964-66, Man. Dir. 1966-69, Senior Man. Dir. 1969-71, Exec. Vice-Pres. 1971-73, Pres. Nov. 1973-; Exec. Dir. Fed. of Econ. Orgs. (Keidanren) 1973-, Kansai Econs. Fed. 1974-; Vice-Pres. Japan Fed. of Employers' Asscns. (Nikkeiren) May 1977-; Pres. Kansai Employers' Assn. April 1977-, Japanese Electric Wire and Cable Makers' Assn. May 1977-; Blue Ribbon Medal. *Address:* 7-25, 1-chome Kamikoshien, Nishinomiya City, Hyogo Prefecture, Japan. *Telephone:* 0798-47-3948.

KAMEL, Hassan, PH.D.; Egyptian diplomatist and administrator; b. 6 Sept. 1907; ed. Univs. of Montpellier, Cairo and the Sorbonne; mem. Mixed Bar 1930-36; Lecturer, Admin. Law, High Coll. of Police and Admin. 1936-37; joined Ministry of Foreign Affairs 1937, served in several countries including Italy, Iran, France, Syria, Portugal, U.S.A., Libya and Hungary until 1959; Legal Adviser, Govt. of Qatar 1960; Dir.-Gen. Govt. of Qatar 1961-67; Adviser to Govt. of Qatar with rank of Minister 1967-71; Perm. Rep. of Qatar to UN 1971-72; Adviser to H.H. the Amir 1973-; Adviser of several dels. to UN and rep. on numerous int. confs.; Vice-Pres. Qatar Public Petroleum Corpn.; mem. Investment Board of Govt. of Qatar; mem. Int. Law Assn., London, American Soc. of Int. Law, Washington, World Peace through Law Centre, Washington; fmr. Dir. and mem. of Joint Management Cttee. of Qatar Petroleum Co. and Shell Co. of Qatar; Légion d'honneur, Ordre national du Mérite (France), Order of the Repub. (Egypt), Ordre national du Mérite (Syria), Order of Al Kawkab al Ordoni (Jordan), Ordre nat. du Mérite (Morocco), Ordre de la Répub. (Tunisia), Ordre du Tag (Iran), Ordre de la Répub. (Indonesia). *Publications:* numerous legal articles. *Address:* P.O. Box 636, Doha, Qatar. *Telephone:* 325122.

KAMEN, Martin D., B.S., PH.D.; American professor of chemistry; b. 27 Aug. 1913, Toronto, Canada; s. of Harry Kamen and Goldie Achber; m. 1st Beka Doherty (died 1963), 2nd Dr. V.L. Swanson 1967; one s.; ed. elementary and secondary schools, Chicago, and Univ. of Chicago; Research Chemist (Assoc.), Radiation Lab., Univ. of Calif. (Berkeley) 1937-44; Assoc. Prof. of Biochemistry and Research Assoc., Inst. of Radiology, Washington Univ. Medical School, St. Louis 1945-57; Prof. of Biochemistry, Brandeis Univ., Waltham, Mass. 1957-61, Univ. of Calif., La Jolla 1961, Univ. of Calif., Los Angeles 1975; Prof. Emer. Univ. of Calif. (San Diego Campus), La Jolla 1978; Dir. Laboratoire de Photosynthèse Centre Nationale de la Recherche Scientifique, France 1967-69; mem. Nat. Acad. of Sciences, Amer. Acad. of Science and Letters, American Philosophical Soc.; Fellow, American Inst. of Chemists; American Chemical Soc. Award for Applications of Nuclear Science to Chem. 1963; American Soc. of Plant Physiologists, Kettering Award 1968; Dr. h.c. (Sorbonne, Paris) 1969, Hon. D.Sc. (Chicago) 1969, Hon. D.Sc. (Washington Univ., St. Louis, Illinois (Circle Campus) 1977; Alumni Medal, Univ. of Chicago 1973; Senior Fellow, von Humboldt Foundation, Univ. of Freiburg 1974; Patten Prof., Indiana Univ. 1975. *Publications:* Isotopic Tracers in Biology 1961, Primary Processes in Photosynthesis 1963, A Tracer Experiment 1964; and over 200 papers on chemical microbiology, photosynthesis and nuclear chemistry. *Leisure interest:* music. *Address:* 1390 Plaza Pacifica, Montecito, Calif. 93018, U.S.A. *Telephone:* (805) 969-5102.

KAMIMURA, Eisuke, B.A.; Japanese petroleum executive; b. 11 March 1900; ed. Tokyo Imperial Univ.; joined Nippon Oil Co. 1925; with Japan Oil Transportation Co. 1946-49; Dir. Nippon Oil Co. 1949-50, Man. Dir. 1950-58, Vice-Pres. 1958-61, Pres. 1961-; Dir. Nippon Petroleum Refining Co. 1951-61, Pres. 1961-; Chair. Japan Oil Transportation Co. 1958-; Dir. Nippon Petrochemicals Co. 1961-, Nisseki Real Estate Co. 1960-, Nippon Petroleum Gas Co. 1961-, Nippon Hodo Co. 1960-, Nippon Speciality Lubricants Co. 1960-; Chair. and Pres. Nippon Oil (Delaware) Ltd. 1961-; Exec. Dir. Fed. of Econ. Orgs. 1961, Japan Fed. of Employers' Asscns. 1961. *Address:* 5-2-2, Den-enchofu, Ohta-ku, Tokyo, Japan.

KAMINSKA, Ida; Polish actress and theatrical producer and manager; b. 4 Sept. 1899, Odessa, Russia; first stage appearance 1909; organizer and dir. of Jewish theatre companies Warsaw 1918, Wilno, Lwów 1933-41; since the Second World War in Łódź and Wrocław; Dir. State Jewish Theatre, Warsaw 1968; roles include Nora (Ibsen's The Doll's House), Glikl Hameln, Mother (Gergely's The Case of Pawel Eszterag), Ethel (Kruczkowski's Julius and Ethel), Mother Courage (Brecht), Madame Frank (Dürenmatt's Frank V.); appeared in Czechoslovak film The Shop on the High Street.

KAMIŃSKI, Jan, M.ENG.; Polish agricultural administrator and politician; b. 1922, Jarosław; ed. Higher School of Agriculture, Łódź; Army service 1944-45; worked at Central Board of Agric. Co-operatives (CRS), Samopomoc Chłopska, Warsaw 1948-51; Deputy Dir., then Dir. of Cen. Board of Polish Grain Org. 1952-56; Head of Dept. in Ministry of Purchases 1956-57; Dir.-Gen. of Cen. Board of Grain Milling Industry 1957-65; Deputy Chair. Cen. Board of Agric. Co-operatives (CRS), Samopomoc Chłopska 1965-69, Chair. 1971-76; Chair. Cen. Union of Agric. Co-operatives (CZSR), Samopomoc Chłopska 1976-; Deputy Minister of Food and Industry and Purchases 1969-71, of Internal Trade and Services Jan.-March 1976; Minister without Portfolio March 1976-; Chair. Supreme Co-operative Council (NRS) June 1976-; Deputy to Seym 1972-; mem. Cen. Cttee. of Polish United Workers' Party (PZPR) Dec. 1975-; Order of Banner of Labour (1st Class), Knight's Cross and Officer's Cross, Order Polonia Restituta and other decorations. *Address:* Urząd Rady Ministrów PRL, Al. Ujazdowskie 3/5, 00-583 Warsaw, Poland.

KAMINSKY, Horst, M.A.; German central banker; b. 1927; Sec. of State, Ministry of Finance 1963-74; Pres. Staatsbank der Deutschen Demokratischen Republik 1974; Vaterländische Verdienstorden in Silver, Orden 'Banner der Arbeit' (twice). *Address:* Staatsbank der Deutschen Demokratischen Republik, 108 Berlin, Charlottenstrasse 33, German Democratic Republic.

KAMMHUBER, Gen. Josef; German air force officer; b. 19 Aug. 1896, Burgkirchen, Bavaria; m. Erika Benn 1948 (died 1962); ed. Ludwigsgymnasium, Munich; Volunteer 1914, transferred to regular army and served through all ranks to Major-Gen. 1940, Lieut.-Gen. 1941 and Gen. of the Luftwaffe 1943; Chief of the German Air Force 1956-62; Lieut.-Gen. 1956-61; Gen. 1961; Iron Cross (I and II Class), Ritterkreuz and Grosses Bundesverdienstkreuz mit Stern und Schulterband. *Leisure interests:* music, history, mountains. *Address:* Schwindstrasse 24, 8000 Munich 40, Federal Republic of Germany. *Telephone:* 52-46-59.

KAMOV, Nikolay Ilyich, D.SC.; Soviet aircraft designer (helicopters); b. 14 Sept. 1902, Irkutsk; ed. Tomsk Inst. of Technology; Chief Designer, U.S.S.R. Ministry of Aircraft Engineering; Co-Designer KASKR-1 Autogyro 1929; Designer of helicopters: KA-8 1945-48, KA-10 1949-53, KA-15 1950-56, KA-18 1955-60, KA-25 1958-68, KA-26 1964-67, KA-22 1953-64; Orders of Lenin (twice), Red Banner of Labour, Hero of Socialist Labour 1972, Hammer and Sickle Gold Medal, and other decorations. *Address:* U.S.S.R. Ministry of Aircraft Industry, Moscow, U.S.S.R.

KAMPMANN, Jens; Danish politician; b. 1937, Copenhagen; employed at Ministry of Education 1962-64, Ministry of Finance 1964; mem. Folketing 1966-; Minister for Transport, Communications and Environmental Protection 1971-73, of Transport and Communications Sept.-Dec. 1973, of Taxation 1977-; fmr. Editor Verdens Gang and Ny Politik (social democratic periodicals); mem. Exec. Cttee. Building Trades' Co-operative 1970-; Social Democrat. *Publications:* Co-author: Ahead of the Future, People and Planning. *Address:* Ministry of Taxation, Copenhagen, Denmark.

KAN WEI-HAN; Chinese government official; Dir. Cadres Dept., PLA N.E. Mil. Region 1953; Dir. Cadres Dept. PLA Gen. Political Dept. 1960; mem. Nat. Cttee. 4th CPPCC 1964; Responsible Person PLA Chengtu Units 1966; Deputy Sec. CCP Cttee. PLA Chengtu

Mil. Region 1967; made self-examination in Peking 1967; Political Commissar Shenyang Mil. Region 1978-. *Address:* People's Republic of China.

KANAGARATNAM, Kandiah, M.B.; Singapore international medical officer; b. 1922, Ceylon; m. Manoranjitham Arunasalam 1954; two d.; ed. Raffles Inst., Singapore, Univ. of Malaya and London School of Hygiene and Tropical Medicine; various posts in Ministry of Health, Singapore 1953-69, including Deputy Dir. of Medical Services 1964, and Chair. of Singapore Family Planning and Population Board 1966; Consultant, World Health Org. (WHO), Philippines 1968, Int. Bank for Reconstruction and Devt. (IBRD)—World Bank, Jamaica and Mauritius; Dir. of Population Projects Dept., World Bank 1969-. *Publications:* Numerous papers on public health, population and family planning. *Address:* International Bank for Reconstruction and Development, 1818 H Street, Washington, D.C. 20433, U.S.A. *Telephone:* 202-477-5431.

KANAKARATNE, Neville, M.A., LL.B., BARRISTER-AT-LAW; Ceylonese diplomatist; b. 19 July 1923, Colombo; s. of Mudaliar Kanakaratne and Mildrid de Silva; unmarried; ed. Royal Coll., Colombo, Univs. of Ceylon and Cambridge and Middle Temple, London; Crown Counsel, Dept. of Attorney-Gen. 1951-57; First Sec. and Legal Adviser, Perm. Mission of Ceylon at UN 1957-61; Legal Adviser to Special Rep. of UN Sec.-Gen. in the Congo 1961-62; Legal and Political Adviser to Commdr., UN Emergency Force, Gaza 1962-64; Legal Adviser to Commdr. UN Peace Keeping Force, Cyprus and to Special Rep. of UN Sec.-Gen. 1964-65; Senior Fellow, Centre for Int. Studies, New York Univ. 1965-66; Minister for Econ. Affairs, Ceylon High Comm., London 1967-70; Amb. to U.S.A. 1970-78; del. to numerous int. confs. and several sessions of UN Gen. Assembly; U.N. Survey Mission to Namibia Aug. 1978, Special Rep. to Namibia Office of Sec.-Gen. Sept. 1978-; Hon. LL.D. (George Washington Univ.). *Leisure interests:* theatre, music, reading. *Address:* c/o Ministry of Foreign Affairs, Colombo, Sri Lanka.

KANAYAMA, Masahide; Japanese diplomatist; b. 24 Jan. 1910; ed. Faculty of Law, Tokyo Univ.; entered Ministry of Foreign Affairs 1934; served France 1934, Geneva 1935, Tokyo 1939-41; Third, later Second Sec. Italy 1941-44; First Sec., Vatican 1952; Counsellor, Philippines 1952-54; Consul Gen. Honolulu 1954-57; Dir.-Gen. European and Oceanic Affairs Bureau 1957-61; Consul-Gen. New York 1961-63; Amb. to Chile 1963-67, to Poland 1967-68, to Republic of Korea 1968-71; Dir. Joint Research Centre of Int. Relations, Inst. of Korean Studies. *Address:* 2-1, 7-chome, Minamiaoyama, Minato-ku, Tokyo 107; 4-3, 1-chome, Akatsutsumimachi, Setagaya-ku, Tokyo, Japan (Home).

KANDAHL, Torolv; Norwegian journalist; b. 17 Aug. 1899, Lyngdal; s. of Tor Mathias Kandahl and Sanna Mathilde Torjesen; m. Else Margrete Cammermeyer Rød 1950; one s. one d. (deceased); ed. Oslo Univ.; began journalistic career 1928; Chief Editor Drammens Tidende, Drammen 1945-61, Aftenposten, Oslo 1961-70; mem. Norwegian Parl. 1950-54; Chair. Norwegian Press Assen. 1938-41, Norwegian Editors' Assen. 1950-56; mem. Board, Int. Press Inst. 1960-62; Pres. World League of Norsemen 1963-75; Commdr., Order of St. Olav; Hon. degree, Luther Coll., Decorah, Iowa; Conservative. *Leisure interest:* fishing. *Address:* Rosenborggaten 5, Oslo 3, Norway. *Telephone:* Oslo 69-37-83.

KANDOLO LOPEPE; Zairian administrator; b. 10 Sept. 1923; m.; seven c.; ed. primary and secondary school; Univ. of Brussels; began his career as an administrator 1940; Sec. Services Administratifs Provinciaux 1952; Chef de Bureau aux Affaires Extérieures 1960; Chef de Cabinet under Pres. Lumumba 1960; Dept. of the Interior (with M. J. Nussbaumer) 1960, 1962-64; Sec.-Gen. for the Interior 1961; Chef de Cabinet 1961; participation in organizing Congrès Nat. 1963; Sec.-Gen. Ministry for Land, Mines and Power 1964; Asst. Rep. of Groupe Cominière 1965; Pres. Conseil d'Administration de T.C.Za. 1966; Admin. Air-Zaire 1966; Admin. and Pres. of Gecamines (La Générale des Carrières et Mines du Zaïre) 1968; del. to several int. confs.; Chevalier, Ordre Nat. du Léopard, Officier, Ordre du Mérite du Sénégal and various other foreign awards. *Leisure interests:* cultural and sporting activities. *Address:* Gecamines, B.P. 450 Lubumbashi, Zaire.

KANE, Edward R., PH.D.; American business executive; b. 13 Sept. 1918, Schenectady, N.Y.; s. of Edward and Elva Kane; m. Doris Peterson 1948; two d.; ed. Union Coll., M.I.T.; with E. I. du Pont de Nemours & Co. 1943-; Textile Fibres 1943-66; Asst. Gen. Man. Industrial and Biochemicals 1966, Gen. Man. 1967; Vice-Pres., Dir., mem. Exec. Cttee. E. I. du Pont de Nemours & Co. 1969, Vice-Chair. Exec. Cttee. 1971, Senior Vice-Pres. 1972, Pres. 1973-; Dir. Delaware Trust Co., Nat. Centre for Resource Recovery, Council for Financial Aid to Educ., Société de Chimie Industrielle; Chair. Nat. Advisory Council on Minorities in Eng., fmr. Chair. Manufacturing Chemists Assen., American Section Soc. Chemical Industry; mem. Int. Council Morgan Guaranty Trust Co., Nat. Industrial Advisory Council of Opportunities Industrialization Centre; Trustee, Union Coll., Comm. for Econ. Devt., Nat. Fund for Minority Eng. Students. *Address:* E. I. du Pont de Nemours & Co., Wilmington, Del. 19898, U.S.A.

KANE, Falilou; Senegalese diplomatist; b. 14 July 1938, Joal; s. of Moustapha Kane and Yacine Niang; m. Rabia Ben Zekry 1963; five s.; ed. Collège Blanchot, Saint-Louis, Lycée Van Vollenhoven, Dakar, and Faculty of Law and Econs., Univ. of Dakar; Ministry of Foreign Affairs, Senegal 1960-, successively Head of Div. of UN Affairs, Int. Orgs. and Gen. Affairs, Div. of Political Affairs, concurrently Technical Adviser to Minister of Foreign Affairs; Technical Adviser in Ministry of Justice Nov.-Dec. 1962; Dir. of Politicial, Cultural and Social Affairs, Ministry of Foreign Affairs; Minister at Perm. Mission of Senegal to UN 1966; Minister, Embassy of Senegal, Washington until Dec. 1967; Sec.-Gen. Org. Commune Africaine et Malgache (OCAM) 1968-74; Amb. to Canada 1975-; has taken part in numerous int. confs.; decorations from Morocco, Upper Volta, Cameroon, Chad and Repub. of Zaire. *Leisure interests:* sport, reading. *Address:* Senegal Embassy, 57 Marlborough Avenue, Ottawa, K1M 1M8, Canada.

KANE, William J.; American business executive; b. 30 Nov. 1912, Philadelphia, Pa.; ed. St. Joseph's Coll.; joined Great Atlantic and Pacific Tea Co. Inc. 1931, Pres. 1968, Chair. and Chief Exec. Officer 1971-75. *Address:* Great Atlantic and Pacific Tea Company Inc., 420 Lexington Avenue, New York, N.Y. 10017, U.S.A.

KANEKO, Ippei, LL.B.; Japanese politician; b. 12 Feb. 1913, Kokufumachi, Gifu; s. of Denjiro and Sano Kaneko; m. Shibata Yasuko 1938; one s. three d.; ed. Imperial Univ. of Tokyo; joined Ministry of Finance 1937, Dir.-Gen. Hokkaido Regional Financial Bureau 1954-55, Dir. of Direct Tax Dept. in Nat. Tax Admin. Agency 1956-59, Dir.-Gen. Osaka Regional Tax Admin. Bureau 1959-60; mem. House of Reps. 1960-; Parl. Vice Minister of Econ. Planning Agency 1966-67; Chair. House of Reps. Standing Cttee. on Finance 1972, Liberal Democratic Party Research Comm. on Tax System 1976-78; Minister of Finance 1978-. *Publications:* Sozeiho Gairon (Outline of Tax Laws) 1950, Sozeiho Riron (Theory of Tax Laws) 1953 and others. *Leisure interests:* golf, photography, travelling. *Address:* Ministry of Finance, 3-1 Kasumigaseki 1-chome, Chiyoda-ku, Tokyo; 3-13 Shoan-machi 20-chome, Suginami-ku, Tokyo, Japan (Home). *Telephone:* 581-4111 (Office); 334-8888 (Home).

KANELLOPOULOS, Panayotis; Greek politician; b. 1902.; fmr. Prof. of Sociology Athens Univ.; served Albanian front 1941; Deputy Prime Minister and Minister of Defence 1942-43; Minister, Finance and Reconstruction 1944; Prime Minister Nov. 1945; M.P. March 1946; Minister without Portfolio April 1946; Minister of Air 1947; Minister of War 1949-50; M.P. 1950; Deputy Prime Minister and Minister of Defence in Venizelos Govt. March-April 1950; in Jan. 1951 formed with S. Stephanopoulos the Populist Unionist Party (LEK); at Gen. Election Sept. 1951 joined forces with Marshal Papagos; Minister of Nat. Defence 1952-55; Deputy Prime Minister 1954-55, 1959-63; co-leader of Populist Party 1958, Leader Nat. Radical Union 1963-67 (party suspended); Prime Minister and Minister of Foreign affairs 3-21 April 1967 (deposed by military coup); mem. and Prof. of Social Sciences, Athens Acad. 1959-; under house arrest April-Oct. 1968. *Publications:* League of Nations 1926, Social Progress and Social Policy 1927, Sociology of the Imperialist Phenomena 1927, Karl Marx 1931, Society in our Days 1932, Progress of Technique and Economy 1933, Man and the Social Conflicts 1934, Philosophical and Sociological Problems of History 1936, Simple Sounds (Verse) 1939, History of the European Spirit (two vols.) 1941-47, I Shall Tell You the Truth 1945, The Cycle of Sonnets (Verse) 1946, The 20th Century 1950, Christianity and Our Era 1952, Prolegomena to Metaphysics 1955, Athenian Dialogues 1956, The End of Zarathustra 1956, I Was Born in 1402 1957. *Address:* Akadima Athinon, Odos Panepistimiou, Athens, Greece.

KANEMARU, Shin; Japanese politician; b. 1915; mem. House of Reps., re-elected six times; fmr. Chair. Liberal Dem. Party Diet Policy Cttee.; Minister of Construction 1972-73; Dir. Nat. Land Agency then of Defence Agency until 1978; Liberal Democratic Party. *Address:* House of Representatives, Tokyo, Japan.

KANESHIGE, Kankuro; Japanese engineer; b. 5 April 1899, Osaka, Japan; m. Yasuko Sasaki 1926; one s. two d.; ed. Tokyo Imperial Univ.; Technician, Kanegafuchi Spinning Co. 1923-25; Asst. Prof. of Mechanical Engineering, Tokyo Imperial Univ. 1925-42; Prof. of Mechanical Engineering, Univ. of Tokyo 1942-60; Dir. Inst. of Industrial Science, Univ. of Tokyo 1951-54; Dir. Nat. Aero-

nautical Laboratory 1955-57; Pres. Science Council of Japan 1958-60; Full-time Commr. of Atomic Energy Comm. of Japan 1960-65; Chair. Nat. Space Activities Council 1960-67; [illegible] UN Advisory Cttee. on the Application of Science and Technology to Devt. 1964-69; Full-time mem. Council for Science and Technology 1965-74; Trustee, Asian Inst. of Technology 1971-76. *Address:* 5-46-25 Asagayakita, Suginami-ku, Tokyo 166, Japan. *Telephone:* 03-337-4991.

K'ANG SHIH-EN; Chinese government official; Asst. Minister of Petroleum Industry 1955-56; Vice-Minister of Petroleum Industry 1956; criticized and removed from office during the Cultural Revolution 1967; Minister of Petroleum and Chemical Industries 1975, of State Econ. Comm. 1978-; mem. 11th Cen. Cttee. CCP 1977; Vice-Premier, State Council March 1978-. *Address:* People's Republic of China.

KANIA, Stanisław; Polish politician; b. 8 March 1927, Wrocanka, Jasło district; ed. High School of Social Sciences of Central Cttee. of Polish United Workers' Party, Warsaw; mem. Polish Workers' Party 1945-48, Polish United Workers' Party (PUWP) 1948-; Head, Agricultural Dept., Warsaw Voivodship Cttee., PUWP, then Sec. Warsaw Voivodship Cttee. 1958-68; Deputy mem. Cen. Cttee., PUWP 1964-68, mem. 1968-, Sec. April 1971-, Deputy [illegible] Politburo 1971-75, mem. Dec. 1975-; Head, Admin. Dept., Cen. Cttee., PUWP 1968-71; Deputy to Seym 1972-; Order of Banner of Labour (1st and 2nd Class); Knight's Cross and Officer's Cross, Order of Polonia Restituta; Order of Builders of People's Poland 1977. *Address:* Polska Zjednoczona Partia Robotnicza, Nowy Świat 6, 00-497 Warsaw, Poland.

KANINDA MPUMBUA TSHINGOMBA, G.C.V.O., B.SC.; Zairian diplomat; b. 25 Dec. 1931, Kasai Oriental; ed. Grand Séminaire, Moba, Univs. of Montreal and Brussels; Sec. Mayor's Office, Rwashi-Lubumbashi 1958-59; Trainee at Ministry of Foreign Affairs, Belgium 1959-60; student at Montreal and Brussels Univs. 1961-63; Dir. for Political Affairs, Dept. of Foreign Affairs, Kinshasa 1964-65; Amb. to Tanzania 1965-67, to Ghana 1969-71, to Kenya 1971-72, to U.K. 1972-; Commdr. Ordre Nat. du Léopard. *Address:* Embassy of the Republic of Zaire, 26 Chesham Place, London, SW1 8HH, England.

KANTE, Mamadou Boubacar; Mali diplomatist; b. Sept. 1926, Hombori; m.; two c.; entered govt. service, Chief of Office Staff, Ministry of Labour 1961-62, of Interior, Information and Tourism 1962-64, of Interior 1964-66; technical adviser to Office of Pres. of Mali 1966-67; Perm. Rep. to UN and Amb. to Cuba 1967-69; Dir.-Gen. of Political, Admin., Legal and Financial Affairs in Ministry of Foreign Affairs and Co-operation 1969-71, Sec.-Gen. of Ministry 1971-75; Amb. to U.S.A. and Perm. Rep. to UN Sept. 1975-; Deputy Head of del. to UN Gen. Assembly 1967, 1968, 1971-74. *Address:* Permanent Mission of Mali to the United Nations, 111 East 69th Street, New York, N.Y. 10021, U.S.A.

KANTOR, Tadeusz; Polish painter and theatre organizer; b. 1915, Wielopole, near Cracow; s. of Marian and Helena Kantor; m. Maria Stangret-Kantor 1960; ed. Cracow Acad. of Fine Arts; organized underground theatre, Cracow, during occupation; Prof. Cracow Acad. of Fine Arts 1948, 1969; mem. Assen. of Polish Plastic Artists; founded Cricot 2 Theatre, Cracow 1955, participated with theatre in festivals: Premio Roma 1969, 1974, Mondial du Théâtre, Nancy 1971-77, Edinburgh Festival 1972, 1973, 1976 (First Prize for Dead Class, 30th Festival 1976), 8th Arts Festival, Shiraz 1974-77, Festival d'Automne, Paris 1977; dir. of numerous plays including Cuttle Fish 1956, In a Little Manor House 1958, Madman and Nun 1963, Happening-Cricotage 1965, Water-hen 1968, Dead Class 1975, Unblemished Woman 1978; exhibited paintings at: 30th Biennale of Art, Venice 1960, L'Art Théâtre exhbn., Baden-Baden 1965, São Paulo Biennale 1967, Happening and Fluxus exhbn., Cologne and Stuttgart 1970, Whitechapel Gallery, London 1976, Documenta 6, Kassel 1977, ROSC 1977 Dublin, also at Moderna Museet, Stockholm, Museum of Modern Art, New York and Solomon R. Guggenheim Museum, New York; exhibits in Foksal Gallery, Warsaw: Linia Podziatu (The Line of Division) 1965, List (A Letter) 1967, Lekcja anatomii wg. Rembrandta (Rembrandt's Anatomy Lesson) 1968, Panoramiczny happening morski (Panoramic Sea Happening) 1967, 1977; Multipart 1970, Cambriolage 1971, Tout ne tient qu'à un fil 1973; exhbn. in Modern Art Gallery, Warsaw: Zapiecek 1976; Premio Marzotto, Rome 1968, Prize for Painting, São Paulo 1967, Prix Rembrandt, J. W. Goethe-Stiftung Basel 1978. *Publication:* Teatr Śmierci (Theatre of Death) 1976. *Address:* Ul. Elbląska 6 m. 11, 30-054 Cracow, Poland.

KANTOROVICH, Leonid Vitaliyevich; Soviet mathematician and economist; b. 19 Jan. 1912, St. Petersburg (now Leningrad); m. Natalia V. Ilyina 1938; [illegible] s. one d.; ed. Leningrad Univ.; Instructor, Leningrad Inst. of Industrial Construction Engineering 1930-32; Instructor, Leningrad Univ. 1932-34, Prof. 1934-60; Head of Dept., Math. Inst., U.S.S.R. Acad. of Sciences 1948-60; Head of Math.-Econs. Dept., Inst. of Math., Siberian Branch U.S.S.R. Acad. of Sciences 1961-71; Head of Research Lab., Inst. of Nat. Economy Control, Moscow 1971-76; Head Dept., Scientific Inst. System Research 1976-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-64, mem. 1964-; mem. Hungarian Acad. of Sciences, American Acad. Arts and Sciences, Mexican Acad. Eng. Sciences, Econometric Soc.; hon. degrees from Univs. of Glasgow, Grenoble, Nice, Helsinki, Sorbonne, Cambridge, Philadelphia and Econ. High School, Warsaw; State Prize 1949; Lenin Prize 1965; Nobel memorial prize in Econs. 1975; Order of Lenin; and four other Soviet orders. *Publications:* Memoir on the Analytical Operations and Projective Sets 1931, Approximate Methods of Higher Analysis 1936, The Mathematical Method of Production Planning and Organization 1939, Functional Analysis and Applied Mathematics 1948, Functional Analysis in Semi-ordered Spaces 1950, The Rational Cutting of Materials 1951, Functional Analysis in Normal Spaces 1959, The Best Use of Economic Resources 1959, Optimal Solution in Economics 1972, On Optimal Planning 1976, Functional Analysis 1977. *Leisure interests:* swimming, chess. *Address:* Akademia nauk, Leninsky prosp. 14, Moscow, U.S.S.R.

KANTOROWICZ, Alfred, DR.JUR.UTR.; German university professor and writer; b. 12 Aug. 1899, Berlin; m. Ingrid Schneider 1965; ed. Univs. of Berlin, Freiburg, Munich, Erlangen; army service 1917-18; literary critic and foreign corresp. Vossische Zeitung 1925-32; exile in Paris; Officer International Brigades in Spain; escaped to U.S.A. 1941; Dir. CBS listening station, New York; returned to Germany 1946; publisher of monthly magazine Ost und West, Berlin 1947-49; Prof. of History of German Literature, and Dir. Germanistisches Inst., Humboldt Univ. 1950-57; went to Federal Republic 1957; mem. German Communist Party 1931-57. *Publications:* In [illegible] Lager ist Deutschland (essays) 1936, Portraits 1947, Deutsche Schicksale 1949, Spanisches Tagebuch 1949, Suchende Jugend 1949, Vom moralischen Gewinn der Niederlage 1949, Die Verbündeten (play) 1951, Heinrich und Thomas Mann 1956, Meine Kleider (stories) 1957, Deutsches Tagebuch, Vol. I 1959, Vol. II 1961, Spanisches Kriegstagebuch 1966, Im 2. Drittel unseres Jahrhunderts 1967, Exil in Frankreich—Merk- und Denkwürdigkeiten 1971, Die Geächteten der Republik 1977, Politik und Literatur im Exil 1978; edited critical edn. of works of H. Mann 1951-57. *Address:* 2 Hamburg 13, Innocentiastr. 47, Federal Republic of Germany.

KANTROWITZ, Adrian, M.D.; American heart surgeon; b. 4 Oct. 1918, New York City; s. of Bernard Abraham and Rose Esserman Kantrowitz; m. Jean Rosensaft 1947; one s. two d.; ed. New York Univ. and Long Island Coll. of Medicine; Cleveland Teaching Fellow in Physiology, Western Reserve Univ. School of Medicine 1951-52; Instructor in Surgery, New York Medical Coll. 1952-55; Asst. Prof. of Surgery, New York Downstate Medical Center 1955-57, Assoc. Prof. of Surgery 1957-64, Prof. of Surgery 1964-; Adjunct Surgeon, Montefiore Hospital, Bronx, New York 1951-55; Dir. (full-time) Cardiovascular Surgery, Maimonides Hospital 1955-64; Attending Surgeon, Maimonides Medical Center 1955-64; Dir. Surgical Services (full-time), Maimonides Medical Center and Coney Island Hospital, Brooklyn 1964-70, Chair. Dept. of Surgery 1970-73, Chair. Dept. of Cardiovascular-Thoracic Surgery 1973; Prof. Surgery, Wayne State Univ. School of Medicine 1970-; Pres. Brooklyn Thoracic Soc. 1967-68; Pres. American Soc. of Artificial Internal Organs 1968-69; mem. Editorial Board Journal of Biomedical Materials Research 1966-, [illegible] Scientific Review Board Medical Research Engineering 1966-; Henry L. Moses Research Prize 1949-; New York State Medical Soc., First Prize, Scientific Exhibit 1952, First Prize Maimonides Hospital Research Soc. for work in Bladder Stimulation 1963, Gold Plate Award, American Acad. of Achievement 1966, Max Berg Award for Outstanding Achievement in Prolonging Human Life 1966, Brooklyn Hall of Fame Man of Year Award for Science 1966, Theodor and Susan B. Cummings Humanitarian Award, American Coll. of Cardiology 1967; performed first human implantation of a partial mechanical heart 1966; performed first U.S. human heart transplantation 1967. *Publications:* Numerous articles and films on heart surgery. *Leisure interests:* flying, skiing, sailing, music. *Address:* 6767 West Outer Drive, Detroit, Mich. 48253, U.S.A.

KAO CHEN-CHIEH; Chinese party official; Political Commissar, Yunnan Mil. District, PLA. *Address:* People's Republic of China.

KAPEK, Antonin, ING.; Czechoslovak politician; b. 6 June 1922, Roudnice nad Labem; ed. Czech Technical Univ., Prague; Chief Technologist, Chief Engineer, later Dir., ČKD-Sokolovo Engineering Works, Prague 1953-58; Dir. ČKD-Praha Engineering Works

1958-65, Gen. Dir. 1965-68; mem. Cen. Cttee. CP of Czechoslovakia 1958-, alt. mem. Presidium of Cen. Cttee. 1962-68, mem. Presidium (Politburo) 1970-; mem. Nat. Assembly 1964-69; mem. House of People, Fed. Assembly 1969-; mem. Bureau of Cen. Cttee., CP of Czechoslovakia, for directing party work in the Czech lands 1969-70; Chief Sec. and mem. Presidium of Prague City Cttee., CP of Czechoslovakia 1969-; Chair. Prague City Cttee. of the Nat. Front 1975-77; Order for Merits in Construction, Distinction of Outstanding Work 1965, Order of Red Banner of Labour 1966, Order of the Repub. 1972, Order of Victorious February 1973. *Address:* Central Committee of the Communist Party of Czechoslovakia, nabřeží Ludvíka Svobody 12, Prague 1, Czechoslovakia.

KAPFER, Hans, D.JUR.; Austrian lawyer; b. 5 Sept. 1903, Sollenau, Austria; one s.; ed. Vienna Univ.; served in Law Courts 1926-46, Judge 1930; entered Ministry of Justice 1945, Sektionsrat 1946, Ministerialrat 1948, Sektionschef 1953; Minister of Justice 1955-56; Pres. Oberlandesgericht Vienna 1958-62; Vice-Pres. Supreme Court 1963-65, Pres. Supreme Court 1966-68; Pres. Supreme Court of Principality of Liechtenstein 1969 (retd.). *Publications:* (Editor) Allgemeines bürgerliches Gesetzbuch 1948, 1951, 1955, 1960, 1961, 1963, 1964, 1966, 1967, 1971, 1972, 1975, 1976, 1977, Angestelltengesetz, Arbeitsgerichtsgesetz, Wechsel- und Scheckgesetz 1947, 1948, 1953, 1957, 1961, 1966, 1967, 1975, 1977, Handkommentar Wechselgesetz 1969, Schauspielergesetz 1974. *Address:* Erndtgasse 21, Vienna XVIII, Austria. *Telephone:* 0222/4718854.

KAPITONOV, Ivan Vasiliyevich; Soviet politician; b. 23 Feb. 1915; ed. Moscow Municipal Engineering Inst.; Managerial, Party and Govt. work 1938-54; mem. CPSU 1939-; mem. Cen. Cttee. CPSU 1952-, mem. Secretariat 1965-; mem. Pres. of U.S.S.R. Supreme Soviet 1954-62; First Sec. Moscow Regional Party Cttee. 1954-59, Ivanovo Regional Party Cttee. 1959-64; Head of Dept. of Party Organs Cen. Cttee. of CPSU for R.S.F.S.R. 1964-65, mem. Bureau, Cen. Cttee. 1964-66, Head Dept Organizational Party Work and Sec. Cen. Cttee. 1965-; mem. Budget Comm. 1962-66; Deputy to U.S.S.R. Supreme Soviet 1950-, later Chair. Legislative Proposals Comm.; Order of Lenin (twice) and other decorations. *Address:* Central Committee of CPSU, Staraya ploshchad 4, Moscow, U.S.S.R.

KAPITZA, Pyotr Leonidovich, PH.D., F.R.S.; Soviet physicist; b. 9 July 1894, Kronstadt, Leningrad Region; s. of Leonid Petrovich and Olga Ieoronimovna Kapitza; m. Anna Alekseyevna Krylova 1927; two s.; ed. Petrograd Polytechnic Inst.; Assoc. Petrograd Physical and Tech. Inst. 1918-21; Lecturer Leningrad Polytechnic 1919-21; Scientist, Cavendish Magnetic Research Laboratory, Cambridge 1921-24, Deputy Dir. 1924-30; Fellow of Trinity Coll. Cambridge 1925-36; Messel Research Prof. of Royal Soc. and Dir. of Royal Soc. Mond Laboratory 1930-34; Dir. Inst. of Physical Problems, Acad. of Sciences of U.S.S.R. 1936-46, 1955-; Editor Journal of Experimental and Theoretical Physics, U.S.S.R., mem. Acad. of Sciences of the U.S.S.R., mem. Presidium 1957-; mem. German Acad. of Naturalists "Leopoldina" 1958, Serbian Acad. of Sciences and Arts 1971; Foreign mem. Polish Acad. Sciences 1962-, Royal Acad. Science, Sweden 1966-, Royal Netherlands Acad. Science 1969-, Finnish Acad. Arts and Sciences 1974-; Hon. mem. Inst. of Metals 1943, Franklin Inst. 1944, Danish Royal Acad., New York Acad. of Science 1946, Royal Irish Acad. 1948, American Acad. of Arts and Sciences 1968; Foreign Assoc. American Nat. Acad. of Sciences 1946; Hon. Fellow, Indian Acad. of Science 1948, Indian Nat. Inst. of Sciences 1957, Trinity Coll., Cambridge, England 1966-, Tata Inst. Fundamental Research, India 1977; State Prize 1941, 1943, Faraday Medal of Inst. Electrical Engineers 1942, Order of Lenin 1943, 1944, 1945, 1964, 1971, 1974, Medal of Franklin Inst. 1944, Hero of Socialist Labour 1945, 1974, Order of the Red Banner of Labour 1954, Sir Devaprasad Sarbadhikari Gold Medal (Calcutta) 1955, Kothenius Gold Medal 1959, Lomonosov Gold Medal of U.S.S.R. Acad. of Sciences 1959, Great Gold Medal, Exhibition of Econ. Achievements, U.S.S.R. 1962, Int. Niels Bohr Gold Medal of Dansk Ingeniørvorening 1964, Rutherford Medal of Inst. of Physics and Physical Soc. of England 1966, Simon Memorial Prize of the Inst. of Physics of England 1973; Rutherford Memorial Lecturer, Canada 1969, Bernal Memorial Lecturer, England 1976, Nobel Prize for Physics 1978. *Leisure interests:* chess, antiquarian horology. *Address:* Vavilov Institute of Physical Problems, 2 Vorob'evskoe Chaussée 2, Moscow B-334, U.S.S.R. *Telephone:* B2-32-30.

KAPLAN, Rabbi Jacob, L. EN PHIL.; French rabbi; b. 7 Nov. 1895, Paris; s. of Benjamin Kaplan and Eidel Klein; m. Fanny Dichter 1925; three s. two d.; ed. Séminaire Israélite de France. Rabbi of Mulhouse 1922; Rabbi in Paris 1929; Auxiliary Rabbi to Chief Rabbi of France 1939; Chief Rabbi of Paris 1950; Chief Rabbi of France 1955-; mem. Acad. des Sciences Morales et Politiques, Paris 1967-; Grand Officier de la Légion d'honneur, Croix de guerre (twice), Grande Médaille de Vermeil de la Ville de Paris; Doctor h.c. (Theological Seminary of New York); citation by Mayor of New York for distinguished service. *Publications:* Le judaïsme et la justice sociale 1937, Racisme et judaïsme 1940, French Jewry under the Occupation (American Jewish Year Book) 1945-46, Le judaïsme dans la société française contemporaine 1948, Témoignages sur Israël 1949, Les temps d'épreuve 1952, Judaïsme français et sionisme 1976, Le vrai visage du judaïsme 1976, Justice pour la Koi juive 1977. *Address:* 1 rue Andrieux, 75008 Paris, France. *Telephone:* 522-33-97.

KAPLAN, Joseph, A.M., PH.D.; American physicist; b. 4 Sept. 1902, Tapolcza, Hungary; s. of Heinrich and Rosa (Löwy) Kaplan; m. Katherine E. Feraud 1933; ed. Johns Hopkins Univ.; Instructor in Physics Johns Hopkins Univ. 1926; Nat. Research Fellow in Physics Princeton Univ. 1927-28; Asst. Prof. Univ. of California 1928-35, Assoc. Prof. 1935, Prof. 1940-70, Prof. Emer. 1970-, and Chair. Dept. of Physics 1938-44, Dept. of Meteorology 1940-44; Acting Dir. Inst. of Geophysics, Univ. of Calif., Dir. 1946-47; mem. Comm. Int. Astronomical Union 1922; Chief Operations Analysis Section 2nd Air Force 1943-45, Air Forces Weather Service Jan.-Sept. 1945; fmr. mem. Board of Dir. Microdot Inc., New World Fund Inc.; Adviser, Axe Science Corpn.; Fellow, Physical Soc. and fmr. Local Sec. for Pacific Coast; mem. Exec. Cttee. Int. Assen. of Terrestrial Magnetism and Electricity; Chair. Mixed Cttee. on Upper Atmosphere TMS and (IAIAM) and U.S. Cttee. for the Int. Geophysical year; Fellow, The Meteoritical Soc. (Councillor 1946-50); Pres. Int. Assen. of Geomagnetism and Aeronomy, Int. Union of Geodesy and Geophysics; Chair. U.S. Nat. Cttee. for the Int. Geophysical Year; mem. Nat. Acad. of Sciences; Fellow, Inst. of Aeronautics and Astronautics; mem. Astronomical Soc., Astronomical Soc. of the Pacific, Optical Soc. of America; Fellow, American Geophysical Union; mem. Board of Govs. Hebrew Univ. of Jerusalem, Weizmann Inst. of Science at Rehovoth; Hon. mem. and Fellow, American Meterological Soc.; Hon. D.Sc. (Univ. of Notre Dame, Carleton Coll.), Hon. L.H.D. (Yeshiva Univ., Jewish Theological Seminary and Hebrew Union Coll.). *Publications:* Across the Space Frontier 1950, Physics and Medicine of the Upper Atmosphere 1952, Great Men of Physics 1969. *Leisure interests:* walking, golf, writing. *Address:* 1565 Kelton Avenue, Los Angeles, Calif. 90024, U.S.A. *Telephone:* 213-4738839.

KAPLAN, Nathan O(ram), PH.D.; American professor of chemistry; b. 25 June 1917, New York; s. of Phillip and Rebecca (Uttef) Kaplan; m. Goldie L. Levine 1947; one s.; ed. Univ. of California (Los Angeles and Berkeley); Asst. Biochemist, Univ. of Calif. 1940-42; Research Chemist, Manhattan Project 1942-44; Instructor, Wayne Univ. 1944-45; Assoc. Research Biochemist, Mass. Gen. Hosp. 1945-49; Asst. Prof. of Biology, McCollum Pratt Inst., Johns Hopkins Univ. 1950-52, Assoc. Prof. 1952-56, Prof. 1956-57; Prof. of Biochemistry and Chair. Dept. of Biochem., Brandeis Univ. 1957-68; Prof. of Chem. Univ. of Calif., San Diego 1968-; Adjunct Prof., Dept. Neoplastic Diseases, Mount Sinai School of Medicine, City Univ., New York 1976-; mem. Nat. Acad. of Sciences, A.A.A.S., American Soc. of Biochem., American Soc. of Bacteriologists, American Acad. of Arts and Sciences; Guggenheim Fellowship 1964-65, Senior Guggenheim Fellowship 1975; Eli Lilly Award in Biochem., American Assen. for Clinical Chem. Award 1976 and other awards. *Publications:* Co-author of Methods of Enzymology (52 vols.); author and co-author of almost 400 articles published in numerous journals. *Leisure interests:* art collecting, boating, fishing and 'avid participant of sport activities'. *Address:* University of California, San Diego, La Jolla, Calif. 92093, U.S.A. *Telephone:* 714-452-3052.

KAPLANSKY, Irving, B.A., M.A., PH.D.; American mathematician; b. 22 March 1917, Toronto, Canada; s. of Samuel Kaplansky and Anna Zuckerman; m. Rachelle Brenner 1951; two s. one d.; ed. Univ. of Toronto and Harvard Univ.; Instructor, Harvard Univ. 1941-44; Research Mathematician, Columbia Univ. 1945; Instructor, Univ. of Chicago 1945-47, Asst. Prof. 1947-52, Assoc. Prof. 1952-56, Prof. 1956, Chair. Dept. of Maths. 1962-67; mem. Nat. Acad. of Sciences 1966; apptd. to George Herbert Mead distinguished service Professorship 1969; Hon. Dr. of Maths. (Waterloo) 1968, Hon. LL.D. (Queen's) 1969. *Publications:* numerous research papers and books on mathematics. *Leisure interests:* music, swimming. *Address:* 5825 South Dorchester, Chicago, Ill. 60637, U.S.A. *Telephone:* 667-3973.

KAPNICK, Harvey Edward, Jr., B.S., C.P.A.; American accountant; b. 16 June 1925, Palmyra, Mich.; s. of Harvey E. and Beatrice Bancroft Kapnick; m. 1st Jean Bradshaw 1947 (died 1962), 2nd Mary Redus Johnson 1963; three s.; ed. Cleary Coll. and Univ. of Michigan; joined Arthur Andersen & Co. (Accountants) 1948, Part-

1956, Man. Partner, Cleveland Office 1962, Board of Dirs. 1966-, Chair. and Chief Exec. 1970-; mem. Board of Dirs. Int. Exec. Service Corps; Dir. Dearbor Park Corpn., Chicago Council on Foreign Relations, Lyric Opera of Chicago, United Way of Metropolitan Chicago; Chair. U.S. Treasury Advisory Cttee. on Fed. Consolidated Financial Statements; mem. Iran-U.S. Business Council (Chair. U.S. Section), U.S. Advisory Cttee. for Trade Negotiations, U.S. Advisory Cttee. on Transnational Enterprises; mem. American Inst. of Certified Public Accountants; mem. U.S. del. to Ad Hoc Working Group Accounting Standard, OECD Cttee. on Int. Investment and Multinational Enterprises; Gov. Carlton Club; mem. Board of Trustees Menninger Foundation, Siena Heights Coll., Orchestral Assn., Ravina Festival Assn., Logistics Man. Inst., Museum of Science and Industry Northwest- Univ.; Hon. D.Sc. (Cleary Coll.) 1971. *Address:* Arthur Andersen & Co., 69 West Washington Street, Chicago, Ill. 60602 (Office); 100 Woodley Road, Winnetka, Ill. 60093, U.S.A. (Home). *Telephone:* 312-F16-6262 (Office); 312-441-6410 (Home).

KAPPEL, Frederick R., B.S.E.; American businessman; b. 14 Jan. 1902, Minnesota; s. of Fred Albert and Gertrude May Kappel (née Towle); m. Ruth Carolyn Ihm 1927; two d.; ed. Univ. of Minnesota; joined Bell System groundman Northwestern Bell Telephone Co. 1924, Asst. Vice-Pres. (Operations) 1939, Vice-Pres. (Operations) and Dir. 1942; Asst. Vice-Pres. (Operation and Engineering) American Telephone and Telegraph Co. 1949, Vice-Pres. (Long Lines) 1949, (Operation and Engineering) 1949, Pres. Western Electric Co. 1954, Pres. American Telephone and Telegraph Co. 1956-67, Chair. 1961-67, Chair. Exec. Cttee. 1967-69; Chair. Board Int. Paper Co. 1969-70, Chair. Exec. Cttee. 1971-; responsible for Telstar communications satellite July 1962; Dir. Chase Manhatten Bank 1956-72, Metropolitan Life Insurance Co., Gen. Foods Corpn. 1961-73, Acad. of Political Sciences; Trustee, New York Presbyterian Hospital, Cttee. for Econ. Devt., Boys' Clubs of America 1956-74; mem. of Advisory Board Salvation Army 1949-67; mem. The Business Council, Chair. 1963-64; Trustee, Columbia Univ. 1962-69, Minn. Univ., Inst. of Electrical and Electronics Engineers; Chair. President's Comm. Postal Org. 1967-68; Chair. Board of Govs., U.S. Postal Service 1970-74; numerous hon. degrees and awards, including Outstanding Achievement Award (Minnesota) 1954. *Publications:* Vitality in Business Enterprise 1960, Business Purpose and Performance 1964. *Leisure interests:* golf, fishing, hunting, family. *Address:* 343 West Royal Flamingo Drive, Sarasota, Florida 33577, U.S.A. (Home). *Telephone:* 813-365-0930.

KAPRIO, Leo, M.D., M.P.H., D.P.H., F.A.P.H.A. ; Finnish public health officer; b. 28 June 1918, Tuusula, Finland; s. of Dr. Arthur J. T. M. and Mrs. K. Molander; m. Aini Korhonen, M.PH.ED. 1943; two s. one d.; ed. Helsinki, Johns Hopkins and Harvard Univs.; Finnish Army Medical Corps during Second World War; Chief Medical Adviser to Finnish Population Assn. (Vaestoliitto) 1944-49; Chief Medical Adviser, Finnish Red Cross 1951-56; Chair. of State Cttee. to reorganize Finnish Health Services 1953-54; mem. of WHO Advisory Panel on Public Health Admin. 1951-56; Chief, Div. of Public Health, Nat. Health Service 1952-56; Regional Officer, Eastern Mediterranean and Europe, WHO 1956-63; Finnish del. to WHO 1953-54; Board mem. WHO of UN R.I.S.D. (Geneva) 1964-67; WHO rep. at World Population Conf. 1965; Dir. Div. of Public Health Services 1963-67; Regional Dir. for Europe Feb. 1967-; Hon. mem. Schools Public Health Assn. for the European Region 1978; Foreign Corresp. mem. Division des Sciences, Acad. des Sciences, Inscriptions et Belles Lettres de Toulouse 1977; Dr. h.c. (Leuven), Dr. Med. h.c. (Uppsala), Prof. h.c. (Govt. of Finland). Dr. h.c. (Cracow Medical Acad.) 1976; J. E. Purkyne Medal (Czechoslovakia). *Publications:* 70 scientific publs. in Finnish, Swedish, English and German. *Leisure interest:* history. *Address:* European Regional Office, World Health Organization, 8 Scherfigsvej, Copenhagen Ø, Denmark. *Telephone:* 290111.

KAPUŚCIŃSKI, Ryszard, M.A.; Polish journalist; b. 4 March 1932, Pińsk, U.S.S.R.; s. of Józef and Maria Bobka Kapuścińska; m. Alicja Mielczarek; one d.; ed. Faculty of History, Warsaw Univ.; began career with Sztandar Młodych 1951, then with Polityka; later Corresp. Polish Press Agency (PAP) in Africa and Latin America; now Deputy Editor-in-Chief Kultura; Gold Cross of Merit, Knight's Cross, Order of Polonia Restituta 1974, B. Prus Prize 1975, Int. Prize of Int. Journalists Org. 1976, State Prize (Second Class) 1976. *Publications:* Busz po polsku, Czarne gwiazdy, Kirgiz schodzi z konia, Gdyby cała Afryka..., Dlaczego zginął Karl von Spreti, Chrystus z karabinem ramieniu, Jeszcze dzień życia Etiopía, cesarz, Wojna futbolowa. *Address:* Ul. Pustola 16 m. 33, 01-129 Warsaw, Poland. *Telephone:* 36-76-77.

KAPWEPWE, Simon Mwanza; Zambian politician; b. 12 April 1922; ed. Lubwa Mission; fmr. teacher; studied in India 1951-55, and in U.S.A.; Co-founder African Nat. Congress, N. Rhodesia 1946; Co-founder Zambian African Congress 1958, Treas.; mem. United Nat. Independence Party (UNIP), Deputy Leader 1967-70; mem. Parl. 1962-71; fmr. Minister of Agriculture; Minister of Home Affairs Jan.-Oct. 1964; Minister of Foreign Affairs 1964-67; Vice-Pres. of Zambia Sept. 1967-70, also Minister of Provincial and Local Govt. and of Culture 1970-71; Leader United Progressive Party 1971; mem. Nat. Assembly Dec. 1971; arrested Feb. 1972, released Jan. 1973, given suspended sentence of two years' imprisonment Feb. 1973; rejoined UNIP 1977. *Publications:* Tunyongandimi 1959, Shalapo Chanichandala 1960, Ubutungwa mu Jambo Jambo (political fiction) 1967.

KARAGEORGHIS, Vassos, PH.D., F.S.A., F.R.S.A.; Cypriot archaeologist; b. 29 April 1929, Trikomo; s. of George and Panagiota Karageorghis; m. Jacqueline Girard 1953; one s. one d.; ed. Pancyprian Gymnasium, Nicosia, Univ. Coll., and Inst. of Archaeology, London Univ.; Asst. Curator, Cyprus Museum 1952-60, Curator 1960-63, Acting Dir., Dept. of Antiquities, Cyprus 1963-64, Dir. 1964-; Adjunct Prof. of Classical Archaeology, State Univ. of New York, Albany; fmrly. Geddes-Harrower Prof. of Classical Art and Archaeology, Univ. of Aberdeen; mem. Governing Body, Cyprus Research Centre; mem. Royal Swedish Acad.; Ordinary mem. German Archaeological Inst., Berlin; Corresp. mem. Archaeological Soc., Athens, Acad. of Athens, Académie des Inscriptions et Belles Lettres, Paris, Austrian Acad. Sciences, Vienna; Foreign mem. Accademia Nazionale Dei Lincei; Hon. mem. Council of Greek Archaeological Soc., Athens; Fellow, Univ. Coll., London, Soc. of Antiquaries, London, Royal Soc. of Humanistic Studies, Lund; Corresp. Fellow, British Acad.; Dr. h.c. (Lyon, Göteborg, Athens, Birmingham); Chevalier de la Légion d'honneur 1971, R. B. Bennett Commonwealth Prize 1978. *Publications:* Treasures in the Cyprus Museum 1962, Nouveaux documents pour l'etude du bronze récent à Chypre 1964, Corpus Vasorum Antiquorum 1964, 1965, Sculptures from Salamis, Vol. I 1964, Vol. II 1966, Excavations in the Necropolis of Salamis, Vol. I 1967, Vol. II 1970, Vol. III 1974, Vol. IV 1978, Mycenaean Art from Cyprus 1968, Cyprus (Archaeologia Mundi) 1968, Salamis in Cyprus 1969, Altägäis und Atlkypros (with H. G. Buchholz) 1971, Cypriot Antiquities in the Pierides Collection, Larnaca, Cyprus 1972, Fouilles de Kition I 1974, Kition, Mycenaean and Phoenician discoveries in Cyprus 1976, The Civilization of Prehistoric Cyprus 1976, La céramique chypriote de style figuré I-II (with Jean des Gagniers) 1974-76, Vases et figurines de l'Age du Bronze (with Jean des Gagniers) 1976, Fouilles de Kition II (with J. Leclant and others) 1976, Hala Sultan Tekké I (with P. Åström, D. M. Baily) 1976, Fouilles de Kition III (with M. G. Guzzo Amadasi) 1977, Two Cypriot sanctuaries of the end of the Cypro-Archaic period 1977, The Goddess with Uplifted Arms in Cyprus 1977, Cypriot Antiquities in the Medelhavsmuseet, Stockholm (with C. G. Styrenius and M.-L. Winbladh) 1977, and articles in German, American, English and French Journals. *Address:* c/o Cyprus Museum, P.O. Box 2024, Nicosia (Office); 12 Kastorias Street, Nicosia, Cyprus (Home). *Telephone:* 402191 (Office); 65249 (Home).

KARAJAN, Herbert von; Austrian conductor; b. 5 April 1908; ed. Salzburg Gymnasium and Mozarteum, Vienna Univ. and Conservatoire; successively Musical Dir. Ulm, Opera and Gen. Musical Dir. Aachen, Kapellmeister, Berlin State Opera, Conductor, Berlin Philharmonic Orch., Lifetime Dir. 1954-; Dir. Berlin Staatskapelle 1941-45; concert tours in Europe, U.S.A. and Far East 1945-; Artistic Dir. Berlin Philharmonic Orchestra 1955-56, Vienna State Opera 1956-64; mem. Board of Dirs., Salzburg Festival 1965-; Life Dir. Gesellschaft der Musikfreunde, Vienna; conducted at Salzburg and Lucerne Festivals; Mozart Ring 1957; Hon. D. Mus. (Oxford) 1978; Commdr. First Class, Order of White Rose (Finland); Prix France-Allemagne 1970; Hon. Citizen of Berlin 1973. *Address:* c/o Festspielhaus, Salzburg, Austria.

KARAKAS, László; Hungarian trade unionist and politician; b. 1923, Debrecen; worked in bakery until 1949; mem. Communist Party (later Socialist Workers' Party) 1945-; consecutively Sec., Chair. and Gen. Sec. Food Industry Workers' Union 1949-63; Sec. Nat. Council of Trade Unions 1963-66; First Sec. for County Hajdu-Bihar Party Cttee., Hungarian Socialist Workers' Party 1966-70, mem. Cen. Cttee. 1966-; mem. Parl. 1971-; Minister of Labour 1973-77; leader econ. and admin. dept., Hungarian Socialist Workers' Party Cen. Cttee. 1977-; mem. State Planning Cttee. 1973-. *Address:* Hungarian Socialist Workers' Party, Széchenyi rakpart 19, H-1387 Budapest, Hungary. *Telephone:* 111-400.

KARAKEYEV, Kurman Karakeyevich; Soviet historian; b. 7 Nov. 1913, Kurmenty Village, Kirghizia; ed. Higher Party School and Acad. of Social Sciences; mem. CPSU 1938-; CP work 1939-60; mem. and Pres. Kirghiz Acad. of Sciences 1960-; mem. U.S.S.R.

Acad. of Sciences 1968; Deputy to U.S.S.R. Supreme Soviet 1962-; mem. Comm. for Legislative Proposals; mem. Cen. Cttee. CP of Kirghizia; Orders and medals of U.S.S.R. *Publications:* translations into Kirghiz of Marxism-Leninism classics; historical works on communism in Soviet Central Asia. *Address:* Presidium of Kirghiz S.S.R. Academy of Sciences, Ul. XXII Partsyezda 265-A, Frunze (Office); 720071, Frunze 71, Leninskii Prospect 265A, U.S.S.R. (Home).

KARAMANLIS, Konstantinos G.; Greek lawyer and politician; b. 23 Feb. 1907, Prote; m. Amalia Kanelopoulos (divorced); ed. Univ. of Athens; practising lawyer since 1932; mem. Parl. 1935-67, 1974-; Minister of Labour 1946, of Transport 1947, of Social Welfare 1948-50, of Nat. Defence 1950-52; Minister of Public Works 1952-54, of Communications and Public Works 1954-55; founded Nat. Radical Union 1956; Prime Minister 1955-58, 1958-61, 1961-63; self-imposed exile in France 1963-74; Founder and party leader, New Democracy 1974; Prime Minister July 1974-. *Address:* Office of the Prime Minister, Athens, Greece.

KARAMI, Rashid Abdul Hamid; Lebanese politician; b. 1921; s. of late Abdel Hamid Karami; ed. Fuad Univ., Cairo; Minister of Nat. Economy and Social Affairs 1954-55; Prime Minister and Minister of the Interior 1955-56; Prime Minister 1958-60, 1961-64 (also Minister of Finance), 1965-66, 1966-68, 1969-70; Minister of Finance, Economy, Defence and Information 1958-59, of Finance and Defence 1959-60; Prime Minister July 1975-Dec. 1976, also Minister of Finance, Defence and Information July 1975-Sept. 1976, of Agriculture, Housing and Tourism Sept.-Dec. 1976; mem. Nat. Dialogue Cttee. Sept. 1975; Leader, Parliamentary Democratic Front; Sunni Muslim. *Address:* Rue Karm Ellé, Beirut, Lebanon.

KARANDASH (pseudonym of Mikhail Nikolayevich Rumyantsev); Soviet circus performer; b. 10 Dec. 1901, St Petersburg (now Leningrad); People's artist of the R.S.F.S.R. and of the U.S.S.R. 1969; awarded the Order of the Red Banner of Labour and other decorations. *Films include:* Karandash on Ice, Self-Confident Karandash, The Girl with a Temper, Old Courtyard, High Reward, Ivan Nikulin. *Publication:* Soviet Circus 1954. *Address:* All Union Association of State Circuses, 4 Pushechnaya Street, Moscow, U.S.S.R.

KARANJA, Josphat Njuguna, PH.D.; Kenyan diplomatist and university official; b. 5 Feb. 1931; ed. Alliance High School, Kikuyu, Makerere Coll., Univ. of Delhi and Princeton Univ.; Lecturer in African Studies, Fairleigh Dickinson Univ., New Jersey, U.S.A. 1961-62; Lecturer in African and Modern European History, Univ. of East Africa 1962-63; High Commr. for Kenya in U.K. 1963-70, also accred. to Holy See 1966-70; Vice-Chancellor, Univ. of Nairobi 1970-. *Address:* University of Nairobi, Nairobi, Kenya.

KARASZ, Arthur, LL.D.; American international finance official; b. 13 Dec. 1907, Kolozsvar, Hungary; s. of Ernest Karasz and Helen Fleischmann; m. Eva Waldhauser 1939; one s. two d.; ed. high school in Budapest, Univ. of Budapest and the Sorbonne, Paris; mem. Nat. Bank of Hungary 1932-45, Pres. 1945-46; Prof. in Central Banking, Econ. Univ. of Budapest 1946-48; Lecturer, New School for Social Research, New York 1948-49; Prof. in Monetary Policy, De Paul Univ., Chicago 1949-52; UN Adviser on Monetary Matters to Bolivia 1952-56; joined IBRD (World Bank) 1956, Dir. European Office 1968-72; Adviser to Akbank, Istanbul 1973-75; Vice-Pres. Siemens S.A., St.-Denis, France 1974-75, Pres. 1976-; mem. Cercle Interallié, Paris. *Publications:* L'école des totalitaires 1948, Inflación, Estabilización 1955, Bolivia—An Experiment in Development 1957, Reforming the World Economy 1976; numerous articles in economic publications. *Leisure interest:* farming. *Address:* 192 rue Lecourbe, 75015 Paris, France. *Telephone:* 250 3031.

KARAVAYEV, Georgiy Arkadiyevich; Soviet banker and statesman; b. 3 April 1913; ed. Leningrad Water Transport Engineering Inst.; mem. CPSU 1940-; worker in building enterprises and ministries 1935-57; Deputy Chair. Sverdlovsk Nat. Econ. Council for Construction 1957-59; First Deputy Chair. State Cttee. for Construction 1959-61; Chair. Stroibank (All-Union Capital Investment Bank) 1962-63; First Deputy Chair. U.S.S.R. State Cttee. for Construction 1963-67; Minister of Construction 1967-; Cand. mem. Cen. Cttee. 1971-76, mem. 1976-; Deputy, U.S.S.R. Supreme Soviet 1966-; State Prize 1950, Order of Lenin (twice), and other decorations. *Address:* Ministry of Construction, 8 Building 2, Pervaya ulitsa Stroitelei, Moscow, U.S.S.R.

KARCH, George Frederick; American banker; b. 1 May 1907; m. Mary Sargent 1932; one s. two d.; ed. St. Lawrence Univ., Cleveland Law School and Rutgers Univ. Graduate School of Banking; with Cleveland Trust Co. 1926-, mem. Exec. Cttee. 1954-, Exec. Vice-Pres. 1960-62, Pres. 1962-66, Chair. and Pres. 1966-69, Chair. of Board 1969-73, Hon. Chair. 1973-; Dir. Standard Brands, Inc., Reliance Electric Co., Oglebay Norton Co., Medusa Portland Cement Co., Warner & Swasey Co., Brush Wellman Co., American Greetings Corpn., White Motor Corpn., Rockwell Int. Corpn.; official of many other companies. *Address:* 916 Euclid Avenue, Cleveland, Ohio 44115 (Office); 2720 Wicklow Road, Shaker Heights, Ohio 44120, U.S.A. (Home).

KAREFA-SMART, John Musselman, B.A., B.SC., M.D., C.M., D.T.M., M.P.H., M.R.S.H.; Sierra Leonean politician and physician; b. 17 June 1915, Rotifunk; s. of Rev. James Karefa-Smart and May Karefa-Smart (née Caulker); m. Rena Joyce Weller 1948; one s. two d.; ed. Fourah Bay and Otterbein Colls., McGill and Harvard Univs.; Lecturer, Union Coll., Bunumbu 1936-38; ordained Elder of Evangelical United Brethren Church 1938; Medical Officer, R.C.A.M.C. 1943-45; Sierra Leone Missions Hospitals 1946-48; Lecturer, Ibadan Univ. Coll. (Nigeria) 1949-52; Health Officer, WHO 1952-55, Leader del. to WHO 1956 and 1959; mem. House of Reps. 1957-64; Minister of Lands and Survey 1957-59; Africa Consultant, World Council of Churches 1955-56; Minister for External Affairs 1960-64; Asst. Prof. Columbia Univ. 1964-65; Asst. Dir.-Gen. WHO, Geneva 1965-70; Visiting Prof. of Int. Health, Harvard Univ. 1971-73, lecturer Harvard Medical School 1973-; Medical Dir. Roxbury Health Centre 1974; Clinical Prof. Boston Univ. 1976-; Visiting Prof. Harvard Univ. 1977-; Hon. LL.D. (Otterbein), Hon. LL.D. (McGill), Hon. LL.D. (Boston); Commdr. Order of Star of Africa (Liberia), Knight Grand Band, Order of African Redemption (Liberia), Grand Cordon, Order of the Cedar (Lebanon). *Publications:* The Halting Kingdom 1959, Evaluating Health Program Impact 1974. *Leisure interests:* private flying, photography, stamps. *Address:* 10 Ledgewood Road, Weston, Mass. 02193, U.S.A. *Telephone:* 617-235-0188.

KARELSKAYA, Rimma Klavdiyevna; Soviet ballet dancer; b. 1927; ed. Moscow Ballet School of Bolshoi Theatre; joined Bolshoi Ballet 1946; has toured with Bolshoi Ballet in U.K., Australia, Belgium, China, Netherlands, New Zealand, Egypt, Poland, Federal Republic of Germany, France, Czechoslovakia and Japan; Honoured Artist of R.S.F.S.R. 1962. *Main roles include:* Raymonda (Raymonda by Glazunov), Laurencia (Laurencia by Krein), Lilac Fairy (Sleeping Beauty by Tchaikovsky), Sovereign of the Dryads and Street Dancer (Don Quixote by Minkus), Mirta (Giselle by Adan), Odette-Odille (Swan Lake by Tchaikovsky), Zaremba (Fountains of Bakhchisarai by Asafyev), Firebird (Firebird by Stravinsky), the Servant Girl (Thunder Road by Kara Karayev), Tsar Devitsa (Humpbacked Horse by Pugni), the Swan (Dying Swan by Saint-Saëns). *Address:* State Academic Bolshoi Theatre of U.S.S.R., Ploshchad Sverdlova 1, Moscow, U.S.S.R.

KARGOPOLOV, Mikhail Ivanovich; Soviet mathematician; b. 9 Nov. 1928, Rusakovo Village, Kurgan Region; ed. Urals Univ.; Postgraduate Lecturer Perm Univ. 1953-60; Senior Research Assoc. Inst. of Mathematics, Siberian branch U.S.S.R. Acad. of Sciences 1960-; Prof. 1964-; Dr. of Sc. (Physics and Mathematics) 1963; mem. CPSU 1965-; Corresp. mem., later mem. U.S.S.R. Acad. of Sciences 1966-. *Address:* Academgorodok, Novosibirsk, U.S.S.R.

KARHILO, Aarno, LL.M.; Finnish diplomatist; b. 22 Nov. 1927, Helsinki; m.; two c.; ed. Univ. of Helsinki; entered diplomatic service 1952, served in Helsinki, Washington and Rio de Janeiro; First Sec., Rome 1961; Counsellor and Deputy Chief of Mission, UN 1963-65, Moscow 1966-68; Adviser to del. at UN Gen. Assembly 1959-60, 1963-65, 1969-71, Vice-Chair. 1972-76; Amb. to Japan 1971-72; Perm. Rep. to UN 1972-77; Perm. Rep. to UNESCO and Amb. to France Feb. 1977-; Vice-Pres. ECOSOC 1973, Pres. 1974; Chair. Finnish del. for ECOSOC Sessions 1972-74. *Address:* Embassy of Finland, 2 rue Fabert, 75007 Paris, France.

KARIM, Amin Abdul; Iraqi politician; b. 1921, Baghdad; ed. Coll. of Law; entered Govt. service March 1943; has held various govt. posts including Dir.-Gen. of Finance and Revenues, and Pres. State Org. of Banks (until 1968); Minister of Finance 1968-75. *Address:* c/o Ministry of Finance, Baghdad, Iraq.

KARIM-LAMRANI, Mohammed; Moroccan businessman and politician; b. 1919, Fez; economic adviser to His Majesty the King; Gen. Dir. Office Chérifien des Phosphates 1967-; Chair. Crédit du Maroc; Minister of Finance April-Aug. 1971; Prime Minister 1971-72. *Address:* Office Chérifien des Phosphates, 305 Avenue Mohammed V, Rabat, Morocco.

KARINA, Anna (Hanne Karin Bayer); Danish-born, French film actress; b. 22 Sept. 1940, Copenhagen, m. Jean-Luc Godard (divorced); m. 2nd Pierre-Antoine Fabre (divorced); m. 3rd Daniel Georges Duval 1978. *Films include:* She'll Have To Go 1961, Une femme est une femme 1961, Vivre so vie 1962, Le petit soldat 1963, Bande à part 1964, Alphaville 1965, Made in the USA 1966, La

réligeuse 1968, The Magus 1968, Before Winter Comes 1968, Laughter in the Dark 1969, Justine 1969, The Salzburg Connection 1972, Living Together 1974, L'assassin musicien 1975. *Address:* 12 rue Saint Séverin, 75005 Paris, France.

KARJALAINEN, Ahti, PH.D.; Finnish economist and politician; b. 10 Feb. 1923, Hirvensalmi; s. of Anshelm Karjalainen and Anna Viherlehto; m. Päivi Helinä Koskinen 1947; three s. one d.; ed. Helsinki Univ.; Prime Minister's Sec. 1950-56; Minister of Finance 1957-58, of Trade and Industry 1959-61, of Foreign Affairs 1961-62; Prime Minister 1962-63; Minister of Foreign Affairs 1964-70; Prime Minister 1970-71; Minister of Foreign Affairs 1972-75; mem. Board of Govs., Bank of Finland 1958-; mem. Parl. 1966-; Grand Cross of the Order of the White Rose of Finland, Commdr. of the Order of the Lion of Finland, Medal of Liberty (Second Class) and other decorations. *Leisure interests:* literature and fishing. *Address:* c/o Bank of Finland, P.O.B. 160, 00101 Helsinki 10 (Office); Perustie 13, Helsinki 33, Finland (Home). *Telephone:* 48-45-48 (Home).

KARKOSZKA, Alojzy; Polish politician; b. 15 June 1929, Roczyny, Cracow Voivodship; ed. Tech. Univ., Warsaw; mem. Fighting Youth Union 1945-49, Polish Youth Union 1949-51; mem. Polish United Workers' Party (PUWP) 1951-, Deputy mem. Cen. Cttee. 1964-71, mem. Cen. Cttee. Dec. 1971-, Sec. Cen. Cttee. Dec. 1976–; Sec. Warsaw Cttee., PUWP 1960-70; First Sec. PUWP Voivodship Cttee., Gdańsk 1970-71, Warsaw Dec. 1976-; Minister of Construction and Construction Materials Industry 1971-75; mem. Presidium of Govt. 1974-75, Deputy Chair. Council of Ministers 1975-76; Chair. Capital, Nat. Council, Warsaw 1977-; Deputy to Seym March 1976-; Order of Banner of Labour (1st and 2nd Class); Knight's Cross, Order of Polonia Restituta and other decorations. *Address:* Polska Zjednoczona Partia Robotnicza, Nowy Świat 6, 00-497 Warsaw, Poland.

KARLIN, Dr. Samuel, PH.D.; American mathematician; b. 8 June 1924, Poland; m.; three c.; ed. Illinois Inst. of Technology and Princeton Univ.; Calif. Inst. of Technology, Bateman Research Fellow 1947-48, Asst. Prof. 1949-51, Assoc. Prof. 1951-55, Prof. 1955-56; Visiting Asst. Prof. Princeton Univ. 1950; Prof. Stanford Univ. 1956-70, 1973-; Guggenheim Fellow to Israel and France 1960-61; Guest Mathematical Soc. of Japan 1964; Head, Dept. of Pure Mathematics, Weizmann Inst. of Science, Rehovot, Israel 1970-73, Dean, Faculty of Mathematics 1973; Consultant Rand Corpn., Santa Monica; Chief Editor, Theoretical Population Biology; Editor or Assoc. Editor, Journal of Mathematical Analysis, Logistics Journal, Journal of Applied Probability, Journal d'analyse, Journal of Mathematics and Mechanics, Journal of Mathematical Biosciences, Journal of Approximation Theory and Advances in Mathematics; Fellow, Inst. of Mathematical Statistics 1956; fmr. mem. Int. Statistics Inst., American Acad. of Arts and Sciences and Council of American Mathematical Soc.; mem. of American Mathematical Soc., Applied Mathematics, panel Nat. Research Council, U.S. Acad. of Sciences; Pres.-elect. Inst. of Mathematical Statistics 1977, Pres. 1978-79; Procter Fellow, Princeton Univ. 1946; Wald Memorial Lecturer 1957; Henry and Bertha Benson Chair of Mathematics 1971; Andrew D. White Prof.-at-Large, Cornell Univ. 1975-(81); Wilks Lecturer at Princeton 1977; Seymour Sherman Memorial Lecturer 1978; Robert Grimmitt Chair, Stanford 1978. *Publications:* over 200 articles in various journals on topics of pure and applied probability theory, game theory, decision theory and statistical methodology, mathematical analysis and mathematical biology. *Address:* Department of Mathematics, Stanford University, Stanford, Calif. 94305, U.S.A.

KARLING, John S., M.A., PH.D., F.R.S.A.; American mycologist; b. 2 Aug. 1897, Austin, Texas; s. of Theodore and Marie Karling; m. Page Johnston 1940; one d.; ed. Univ. of Texas and Columbia Univ.; Dean, Texas Wesleyan Coll. 1920; Instructor, Univ. of Texas 1921; Columbia Univ. Fellow in Botany; Asst. Prof. 1926-35; Assoc. Prof. 1935-48; Prof. of Botany and Chair. Dept. of Biological Sciences, Purdue Univ. 1948-59, John Wright Distinguished Prof. of Biological Sciences 1959-65, Emer. Prof. 1965-; Physiologist, Tropical Research Foundation 1925-27; Dir. Chicle Research Experimental Station, British Honduras 1927-32; Field Dir. Exploration Dept. U.S. Govt. Rubber Development Corpn., Brazil 1942-43; Bermuda Biological Research Fellow 1942; Prof. of Botany, Columbia Univ.; Consulting Botanist, American Chicle Co.; Sec. Botanical Soc. of America 1945-50; Vice-Pres. 1950-51; Sec. Union of American Biological Socs. 1946-48; Vice-Pres. American Assn. for Advancement of Science 1950; Chair. Section G., A.A.A.S. 1950; Research Fellow Int. Indian Ocean Expedition 1963; Visiting Sir C. V. Raman Lecturer, Univ. of Madras 1965; Fulbright Research Fellow, New Zealand 1965-66; Dir. Ross Biological Reserve, Purdue Univ. *Publications:* The Plasmodiophorales 1942, The Simple Biflagellate Holocarpic Phycomycetes 1942, Synchytrium 1963, Iconographia Chytridiomycetearum 1977. *Leisure interests:* fishing, flower and vegetable gardening, sports, writing. *Address:* 1219 Tuckahoe Lane, West Lafayette, Ind., U.S.A. (Home). *Telephone:* 463-9887.

KAROLI, Hermann, DR. RER. POL.; German chartered accountant; b. 27 March 1906, Hahnbach; s. of Rudolf and Emma (née Fleischer) Karoli; m. Susanne Seeberg 1943; one s. one d.; ed. Univs. of Leipzig and Innsbruck, mem. of Management Board, Deutsche Revisionsund Treuhand A.G., Berlin 1938-45; independent accountant 1948-; Senior Partner Karoli-Wirtschaftsprüfung G.m.b.H., Essen and Berlin; mem. various advisory boards and committees. *Leisure interests:* music, golf. *Address:* Karoli-Wirtschaftsprüfung G.m.b.H., 43 Essen, Alfredstrasse 45 (Office); 43 Essen-Bredeney, Am Ruhrstein 37, Federal Republic of Germany (Home).

KARP, David, B.S.S.; American writer; b. 5 May 1922, New York; s. of Abraham Karp and Rebecca Levin; m. Lillian Klass 1944; two s.; ed. City Coll. of the City of New York; Continuity Dir. Station W.N.Y.C., New York 1948-49; free-lance writer 1949-; Guggenheim Fellowship for creative writing 1956-57; mem. editorial board Television Quarterly 1965-71, 1972-; mem. Council, Writers' Guild of America, West, Inc. 1967-74; Pres. Leda Productions, Inc. 1968-; film and television producer (20th Century Fox, Metro-Goldwyn-Mayer, Paramount Pictures) 1970-; Emmy Award by Acad. of Television, Arts and Sciences 1964-65; mem. PEN Club; mem. Acad. of Motion Picture Arts and Sciences; Pres. Television-Radio Branch, Writers' Guild of America, West 1969-71; Trustee, Producer-Writers' Guild Pension Fund 1970-, Vice-Chair. 1976, Sec. 1977, Chair. 1978-79, Chair, Finance Cttee. 1975; Trustee, Writers' Guild Health Fund 1974-; Chair. Benefits Comm. Health Fund 1978; Sec. Health Fund 1979. *Publications:* One 1953, The Day of the Monkey 1955, All Honorable Men 1956, Leave Me Alone 1957, The Sleepwalkers 1960, Vice-President in Charge of Revolution (with M. D. Lincoln) 1960, The Last Believers 1964, Café Univers (play) 1967; also contributed many articles and reviews to magazines and has written for radio, cinema and television. *Leisure interests:* reading, photography. *Address:* 1116 Corsica Drive, Pacific Palisades, Calif. 90272, U.S.A. *Telephone:* (213) 277-4545 (Creative Artists Agency).

KARPLUS, Martin, PH.D.; American professor of chemistry; b. 15 March 1930, Vienna, Austria; m. Susan Karplus 1961; two d.; ed. Harvard Univ. and Calif. Inst. of Technology; Nat. Science Foundation Postdoctoral Fellow, Mathematical Inst., Oxford; mem. of staff, Dept. of Chem., Univ. of Illinois 1955-60; Prof. of Chem., Columbia Univ. 1960-66, Harvard Univ. 1966-; Visiting Prof. Univ. of Paris 1972-73, Prof. 1974-75; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Int. Acad. of Quantum Molecular Science; Fellow, American Physical Soc.; Harrison Howe Award, American Chem. Soc. (Rochester Section), Phi Lambda Upsilon Frensenius Award. *Publications:* Atoms and Molecules (with R.N. Porter) 1970; over 150 articles in the field of theoretical chemistry. *Address:* Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-4018.

KARSH, Yousuf; Canadian photographer; b. 23 Dec. 1908, Mardin, Armenia-in-Turkey; s. of Bahia and Amsih Karsh; m. 1st Solange Gauthier 1939 (died 1961), 2nd Estrellita Nachbar 1962; ed. Sherbrooke, Quebec and School of Art and Design, Boston, Mass.; Photo apprenticeship to John Garo of Boston; arrived in Canada from Armenia-in-Turkey 1925; specialized in portrait photography; Citizen 1946; Visiting Prof. of Photography, Ohio Univ. 1967-69; Photographic Adviser to Expo 1970, Osaka, Japan 1969; Visiting Prof. of Fine arts, Emerson Coll., Boston 1972-73; numerous one-man exhbns., North America 1967-; touring exhbn. Men Who Make Our World Japan 1970, U.S.A. 1971-68, France, Germany, Netherlands 1971-73, Belgium, Arles 1974-75, Athens 1978 (now in perm. collection Museum of Contemporary Art, Tokyo, Nat. Gallery of Australia and Province of Alberta, Canada); fmr. Nat. Vice-Pres. now corp. mem. Muscular Dystrophy Asscns. of America 1970-; mem. Royal Acad. Arts and Sciences, Canada 1975; Trustee, Photographic Arts and Sciences Foundation 1970-; Hon. LL.D. (Queen's Univ., Kingston, Ont., and Carleton Univ.), Hon. D.H.L. (Dartmouth Coll. at Hanover, New Hampshire, Emerson Coll., Boston, Mass., Mount Allison Univs.), Hon. D.C.L. (Bishop's Univ., Quebec), LL.D. h.c. (Mass.) 1979; Canada Council Medal 1965, Centennial Medal 1967, Order of Canada 1968. *Publications:* Faces of Destiny 1946, This is the Mass (English and French editions), This is Rome 1959, Portraits of Greatness 1959, This is the Holy Land 1961, In Search of Greatness (autobiog.) 1962, These are the Sacraments (co-author) 1963, The Warren Court 1964 (co-author), Karsh Portfolio 1967, Faces of our Time 1971, Karsh Portraits 1976, Karsh Canadians 1978. *Leisure interests:* tennis, reading, archaeology, music. *Address:* Chateau Laurier Hotel, Suite 660, Ottawa, Ont., Canada.

KARSTEN, Christian Friedrich, DR.ECON.; Netherlands banker; b. 1 July 1917, Assen; s. of Rense Karsten and Anna Margaretha Graft; m. 1st C. J. W. van Waard 1942 (divorced 1975), three s. one d.; m. 2nd C. Waterreus; ed. Netherlands Economic Univ.; Posts in insurance and industry 1940-45; Economist, Rotterdamsche Bank N.V. (now Amsterdam-Rotterdam Bank N.V.) 1945-48, Sec. to Managing Dirs. 1948-52, Asst. Man. Dir. 1952-55, Man. Dir. 1955-65, Man. Dir. Amsterdam-Rotterdam Bank N.V. (merger between Rotterdamsche and Amsterdamsche Bank) 1965-78, Chair. 1978-79; Chair. European Banking Co. 1974-79; Dir. other companies; Prof. of Monetary Theory, Erasmus Univ., Rotterdam; Knight, Order of Netherlands Lion, Commdr. Order of Orange-Nassau. *Publications:* Het Amerikaanse Bankwezen 1952, Banking without Cheques 1958, Competition between Commercial Banks and Other Financial Institutions 1960, De rol van de banken bij de industriefinanciering 1962, EWG-Perspektiven des Bankwesens 1963, Transfer Systems 1964, Should Europe Restrict U.S. Investments? 1965, Enkele recente ontwikkelingen in het Amerikaanse Bankwezen 1972, Analysis of ■ Crisis 1973. *Address:* Amsterdam-Rotterdam Bank N.V., Herengracht 595, Amsterdam, Netherlands. *Telephone:* 282222.

KARTTUNEN, Osmo P., LL.LIC.; Finnish businessman and politician; b. 8 Nov 1922, Helsinki; s. of Pekka Karttunen and Maikki Karttunen (née Pehkonen); m. Liisa Aleksandra Saastamoinen; one s. three d.; ed. Lyceum of Kuopio and Univ. of Helsinki; Asst. Dir. H. Saastamoinen & Pojat Oy 1946-51, Man. Dir. 1952-67; Man. Dir. H. Saastamoinen Oy 1961-67; Chair. Saastamoinen Group of Cos. 1967-; Chair. Finnish Wholesalers' Asscn. 1960-68, Admin. Board, Tukkukauppojen Oy 1962-, Admin. Board Eläkevakuutus Oy Ilmarinen 1962-, Oy Uusi Suomi 1963-; Minister of Finance 1962-63; mem. Exec. Cttee. Féd. Int. de Football Asscn. (FIFA) 1972-; Finnish Liberty Cross, Commdr. of the Order of the White Rose of Finland, German Eagle Order, Stella Della Solidarietà, Gran Croce dell' Ordine al Merito (Italy); counsellor of mining h.c. *Leisure interest:* philosophic literature. *Address:* Kumpusaari, Kuopio, Finland. *Telephone:* 114780.

KARUHIJE, Ignace: Rwandan diplomatist; b. 10 June 1934, Janja, Ruhengeri Prefecture; m.; four c.; ed. Catholic Univ. of Louvain, Belgium; Official in Ministry of Educ. 1966-68; Prefect of Ruhengeria Prefecture 1968-72; Amb. to Burundi 1972-73, to Belgium 1973-76, to UN Aug. 1976-. *Address:* Permanent Mission of Rwanda to the United Nations, 120 East 56th Street, Room 1010, New York, N.Y. 10022, U.S.A.

KARUNANIDHI, Muthuvel; Indian politician and playwright; b. 3 June 1924, Thirukkuvalai, Thanjavur; Editor-in-Charge Kudiarasu; journalist and stage and screen playwright in Tamil, acting in his own plays staged to collect party funds; has written over 35 film-plays including the screen version of the Tamil classic Silappadhikaram, stage plays and short stories; started first student wing of the Dravidian movement called Tamilnadu Tamil Manavar Mandram; one of the founder mems. of Dravida Munnetra Kazhagam Legislative Party (D.M.K.) 1949, Treas. 1961-; Deputy Leader 1968, Leader 1969-; founder-editor of the Tamil daily organ of the D.M.K. Murasoli; represented Kulittalai in State Assembly 1957-62, Thanjavur 1962-67, Saidapet 1968-; led the Kallakkudi Agitation and was imprisoned for six months; fmr. Minister of Public Works; Chief Minister of Tamil Nadu (Madras) 1969-76 (presidential rule imposed); Thamizha Vell (Patron of Tamil), Asscn. of Research Scholars in Tamil 1971; Hon. D.Litt. (Annamalai Univ., Tamil Nadu) 1971. *Address:* Dravida Munnetra Kazhagam, Arivagam, Royapuram, Madras 13, Tamil Nadu, India.

KARUNARATNE, Hon. Nuwarapaksa Hewayalage Asoka Mahaname; Ceylonese politician; b. 26 Jan. 1916; ed. St. Anthony's Coll., Kandy and Nalanda Vidyalaya, Colombo; mem. of Parl. 1958-; Parl. Sec. to Minister of Justice 1960; Junior Minister of Justice 1963, removed from office because of critical attitude to Govt.; helped to form Sri Lanka Freedom Socialist Party 1964; Minister of Social Services 1967-70, July 1977-; Sri Lanka Freedom Party. *Address:* Ministry of Social Services, Colombo, Sri Lanka.

KASATKINA, Natalya Dmitriyevna; Soviet ballet dancer and choreographer; b. 7 June 1934, Moscow; d. of Dmitriy A. Kasatkin and Anna A. Kardasheva; m. Vladimir Vasilyov 1956; one s.; ed. Bolshoi Theatre Ballet School; joined Bolshoi Theatre Ballet Company 1954, main roles including Frigia (Spartacus), Fate (Carmen), The Possessed (Rites of Sacred Spring); Choreographer (with V. Vasilyov) of Vanini Vanini 1962, Geologist 1964, Rites of Sacred Spring 1965, Tristan and Isolde 1967, Preludes and Fugues 1968, Our Yard 1970, The Creation of the World 1971, Romeo and Juliet 1972, Prozrienie 1974, Gayane 1977; TV Film: Choreographic Novels; Head (with V. Vasilyov) choreography co.; Classic Ballet 1977–; wrote libretto and produced opera Peter I 1975, Così fan Tutte (with V. Vasilyøv) 1978; State Prize of U.S.S.R. *Address:* State Academic Bolshoi Theatre of U.S.S.R., 1 Ploshchad Sverdlova, Moscow; St. Karietny Riad, h.5/10, B 37, Moscow, 103006, U.S.S.R. (Home).

KASATONOV, Admiral Vladimir Afanasiyevich; Soviet naval officer; b. 21 July 1910, Novy Petergof, Leningrad Region; ed. Naval Acad.; Naval service 1927; Commanding and Staff posts 1931-; with Gen. Staff 1945-55; Commdr. Black Sea Fleet 1955-62, N. Fleet 1962-64; First Deputy C.-in-C. Soviet Navy 1964-; Deputy to U.S.S.R. Supreme Soviet 1958-; mem. Comm. for Transport and Communications, Soviet of Nationalities; Hero of Soviet Union 1966, medal Gold Star, Orders of Lenin (three times), Red Banner of Labour, etc. *Address:* Ministry of Defence, Naberezhnaya M. Thoreza 34, Moscow, U.S.S.R.

KÄSER, Helmut Alfred; Swiss lawyer and sports administrator; b. 14 Nov. 1912; m. Silvia Löpfe 1946; ed. Commercial High School, Neuchâtel, and Univs. of Berne and Zürich; Lawyer, Zürich court; fmr. lawyer, Ministry of Economics; Gen. Sec. Swiss Football Asscn. 1942-60; Sec.-Gen. Fédération Internationale de Football Asscn. (FIFA) 1961-. *Publications:* Untersuchungen über den Begriff des Ersatzwertes in der Versicherung 1937. *Leisure interests:* colour photography, shooting, skiing, mountaineering. *Address:* Hitzigweg 11, 8032 Zürich, Switzerland.

KASHIWAGI, Yusuke, LL.B.; Japanese banker; b. 17 Oct. 1917, Dairen; s. of Hideshige and Kiyo Kashiwagi; m. Kazuko Soma 1946; two s. two d.; ed. Tokyo Imperial Univ.; entered Ministry of Finance 1941; Foreign Exchange Bureau 1941, Minister's Secr. 1945, Budget Bureau 1948, Senior Budget Examiner 1951, Dir. Research Section of Foreign Exchange Bureau 1954, Dir. Planning Section 1956; Financial Sec. Embassy in Washington, D.C. 1958; Financial Counsellor, Ministry of Finance 1961; Financial Commr. 1965; Dir.-Gen. Int. Finance Bureau 1966; Vice Minister of Finance for Int. Affairs 1968; resgnd. from Ministry of Finance 1971, Special Adviser to Minister of Finance 1971-72; Deputy Pres. Bank of Tokyo Ltd. 1973-77, Pres. 1977-; Chair. Board of Dirs. Bank of Tokyo and Detroit (Int.) Ltd. London 1978-, Bank of Tokyo (Luxembourg) SA 1977-, Bank of Tokyo (Holland) NV. Amsterdam 1977-; Perm. Rep. of Bank of Tokyo on Board of Dirs. Banque Européenne de Tokyo SA, Paris 1977-; Dir. Saudi Int. Bank, London 1977-, Sony Corpn. 1976-; mem. Exec. Cttee. Trilateral Comm. 1973-; mem Int. Monetary Conf. 1977-. *Leisure interests:* golf, travelling. *Address:* Bank of Tokyo Ltd., 2-1 Muromachi 1-chome, Nihombashi, Chuoku, Tokyo 103 (Office); 11-16 Nishi-Azabu 1-chome, Minato-ku, Tokyo 106, Japan (Home). *Telephone:* 03-270-8111 (Office); 03-408-1323 (Home).

KAŠLIK, Václav; Czechoslovak composer and conductor; b. 28 Sept. 1917, Poličná; s. of Hynek and Paula Kašlíková; m. Růžena Stučesová 1942; three s.; ed. Faculty of Philosophy, Charles Univ., Prague, Prague Conservatoire and Conductors' Master School, Prague; Conductor, E. F. Burian Theatre, Prague 1940-41; Asst. Dir. Nat. Theatre, Prague 1941-43; Chief of Opera Ensemble, Opera of May 5th 1945-48; Conductor, Smetana Theatre, Prague 1952-62; Chief Opera Dir., Nat. Theatre, Prague 1961-65, Opera Dir. 1966-; tours include New York, Leningrad, Môscow, Vienna, Munich; Klement Gottwald State Prize 1956; Honoured Artist 1958. *Works:* Operas: Robbers' Ballad 1944, Calvary 1950, Krakatit 1960; ballets: Don Juan 1939, Jánošík 1951, Prague Carnival 1952; Dir. of operas: The Water Nymph (Dvořák), Vienna 1965, Julietta (Martinů), Hanover 1966, Albergo dei Poveri (Testi), Milan 1966, Die Soldaten (Zimmermann), Munich 1969, Pelléas (Debussy), Covent Garden 1969, Don Giovanni (Mozart), Prague 1969, Cardillac (Hindemith), La Scala 1969, Idomeneo (Mozart), Vienna 1971, The Greek Passions (Martinů), Spain 1972, The Queen of Spades (Tchaikowsky), Stockholm 1973, Katya Kabanová (Janáček), Geneva 1975; work for TV, Magic Lantern Theatre: Hoffman's Tales 1962; Katya Kabanová (Janáček), TV production, Copenhagen 1970, Boris Godunov (Mussorgsky), Verona 1976, Rusalka (Dvořák), Haag 1976, Karlsruhe 1977, Ariadne auf Naxos (Strauss), Prague 1977, Carmen (Bizet), Geneva 1977. *Address:* Škrétova 10, Prague II, Czechoslovakia. *Telephone:* 230083.

KASSIMATIS, Grigorios, D. en D., DR.RER.POL.; Greek professor and politician; b. 16 March 1906, Athens; s. of Panagiotis and Anphi Kassimatis; m. Efi Kassimatis 1945; ed. Univ. of Athens and Univ. de Paris à la Sorbonne; practised law 1927-37; Under-Sec. for Labour (resigned) 1936; in concentration camp during Second World War; Assoc. Prof. Salonica Law School, then Prof. Panteios School 1937-46; Assoc. Prof. of Civil Law, Law School of Univ. of Athens 1939, Prof. of Civil and Labour Law and Social Politics

1941; Prof. of Social Studies and Labour Law, Higher Industrial School, Athens 1959; Assoc. Prof. Univ. of Paris; Deputy of Athens 1946, and as an Independent 1950, for Liberal Party 1951, for Nat. Radical Union 1956, 1958, 1961, 1963, 1964-67 (party suspended in April 1967); Minister of Finance and Public Welfare and Acting Minister for Labour and Justice in Govts. of P. Voulgaris and Archbishop Damaskinos, then Minister of Finance and Acting Minister of Agriculture in P. Kanellopoulos Govt. 1945; Minister without Portfolio ■ Under-Sec. of Press and Information and Acting Minister of Justice and Finance, then minister of Labour and Acting Minister for Public Works 1950, Minister of Industry 1951, of Labour 1951-52; Minister without Portfolio and Acting Minister for Co-ordination 1956-58; Minister of Educ. and Religion 1961-63, of Educ. 1967; Head of Greek Cttee. to UN 1956-67; Rep. of Greece to Int. Bank of Reconstruction and Devt.—World Bank (IBRD) 1957, 1958; mem. Acad. of Athens Dr. h.c. (Univs. of Aix and Bari). *Publications:* several books and articles. *Address:* Frynichou Street, Athens, Greece. *Telephone:* 3235154, 3236778.

KASTL, Jörg: German international official; b. 21 June 1922, Berlin; s. of Dr. Ludwig Kastl and Gertrud Otto; m. Eva M. L. von Essen; two d.; ed. Neubeuern, Bavaria, and law studies in Lausanne and Munich; served in armed forces 1941-45; German Foreign Service School 1950-51; Vice-Consul, Paris 1951-52; Second Sec. Buenos Aires 1953-55, Asunción, Paraguay 1955-57; First Sec. Foreign Office, Bonn 1957-59, Moscow 1959-61; Fellow, Center for Int. Studies, Harvard Univ. 1961-62; First Sec., Washington 1962-63; Counsellor, Spokesman of German Foreign Office 1963-66; Head of East European Desk, Foreign Office, Bonn 1967-69; Asst. Sec.-Gen. for Political Affairs, NATO 1969-75; Amb. of Fed. Republic of Germany to Argentina 1975-77. *Address:* c/o Ministry of Foreign Affairs, Bonn, Federal Republic of Germany.

KASTLER, Alfred; French physicist; b. 3 May 1902 Guebwiller (Alsace); s. of Frédéric Kastler and Anne Frey; m. Elise Cosset 1924; two s. one d.; ed. Ecole Normale Supérieure; taught in lycées at Mulhouse, Colmar, Bordeaux 1926-31; Asst. at the Faculty of Sciences, Univ. of Bordeaux 1931-36, Prof. 1938-41; Lecturer Faculty of Science, Univ. of Clermont-Ferrand 1936-38; Prof. of Physics, Ecole Normale Supérieure, Paris 1941-68; at Univ. of Louvain, Belgium 1953-54; mem. Management Board, Centre Nat. de la Recherche Scientifique (CNRS), Dir. Atomic Clock Laboratory 1958; mem. Inst. de France; Dr. h.c. (Univs. of Louvain, Pisa, Oxford, Edinburgh, Laval (Quebec), Hebrew Univ. Jerusalem, Belgrade, Bucharest, Pavia); Officier Légion d'honneur; Holweck Medal and Prize, Physical Soc., U.K. 1954, Nobel Prize for Physics 1966. *Leisure interest:* German poetry. *Address:* 1 Rue du Val-de-Grâce, 75005 Paris, France. *Telephone:* 326-17-88.

KASUGA, Ikko; Japanese politician; b. 25 March 1910, Aichi; ed. Nagoya Telecommunications Technical High School; worked for Nagoya Cen. Telecommunications Bureau; Pres. Kasuga Musical Instrument Mfg. Co.; elected to Aichi Prefectural Gov. 1951; Japan Socialist Party mem. House of Reps. 1952; visited Soviet Union 1955; formed Democratic Socialist Party (Minshu-Shakaito) with Suehiro Nishio 1960; fmr. Sec.-Gen., leader Democratic Socialist Party until 1977. *Address:* Minshu-Shakaito, Shiba Sakuragawa-cho, Minato-ku, Tokyo, Japan.

KASURI, Mian Mahmud Ali; Pakistani lawyer and politician; b. 31 Oct. 1910, Kasur; s. of late Maulana Abdul Qadir Kasuri; ed. Punjab and Bombay Univs. and King's Coll., London; called to the Bar, Gray's Inn, London 1935; started legal practice, Lahore High Court 1937; mem. All India Muslim League Council 1942-49; founding mem. and Pres. Azad Pakistan Party 1950-57; mem. Nat. Awami Party 1957-70, Pres. W. Pakistan Nat. Awami Party 1965-70; mem. Pakistan People's Party 1970-73, Vice-Chair. and mem. Cen. Cttee. 1972-73, expelled from party 1973 and joined opposition party Tehrik-i-Istiqlal; mem. Nat. Assembly 1971; Minister of Law and Parl. Affairs 1971-72 (resigned); founder, Pakistan Inst. of Int. Affairs; Vice-Pres. Int. Assen. of Democratic Lawyers, World Habeas Corpus Org. *Address:* National Assembly, Islamabad, Pakistan.

KATAYEV, Valentin Petrovich; Soviet novelist; b. 28 Jan. 1897, Odessa; ed. Odessa; served army 1915-17, Red Army 1918-20; began full-time literary work in Moscow 1922, mem. Praesidium, Union of Soviet Writers 1953-; Editor-in-Chief of Yunost (Youth) monthly magazine 1955-61; mem. Acad. Arts and Sciences, Mainz (Fed. Repub. Germany) 1973, Acad. Goncourt (France) 1976; State prize 1946, Order of Lenin (three times), Order of Red Banner of Labour 1957; mem. CPSU 1958-. *Publications:* Father 1925, The Embezzlers 1926, Forward, O Time 1932, Lone White Sail 1936, Son of the Working People 1937, Son of the Regiment 1945, For Soviet Power 1949, 1951, The Hamlet in the Steppe 1956, Winter Wind 1960, Small Iron Door in ■ Wall 1964, Holy Well 1965, Grass of Oblivion 1967, Collected Works (9 vols.) 1968, The Cubicle 1968, Miscellaneous 1970, A Mosaic of Life 1972, The Magic Horn of Oberon 1973, A Graveyard in Sculiany 1975, My Diamond Crown 1977; plays: Kvadratura Kruga (Squaring the Circle) 1928, Avangard (The Vanguard) 1929, Waves of the Black Sea 1961, Time of Love 1962, Werewolf 1963, Floweret of Seven Colours 1966. *Address:* Lavrushinsky pereulok 17, kv. 43, Moscow, U.S.S.R.

KATER, Sir Gregory Blaxland, Kt., M.A.; Australian banker and grazier; b. 15 May 1912, Orange, N.S.W.; s. of late Sir Norman Kater; m. Catherine Mary Ferris-Scott 1937; two s. one d.; ed. The King's School, Sydney and Cambridge Univ., England; Dir. H. E. Kater & Son Pty. Ltd. 1948-; Dir. Oil Search Ltd. 1950, Chair. 1957-; Dir. CSR Ltd. 1949, Chair. 1977-; Dir. Perm. Trustee Co. Ltd. 1951, Chair. 1956-; Dir. Commercial Banking Co. of Sydney Ltd. 1951, Chair. 1966-; Chair. Mercantile & Gen. Reinsurance Co. of Australia Ltd. 1957-, Mercantile & Gen. Life Reassurance Co. of Australia Ltd. 1957-; Vickers Australia Ltd. 1965-; Vickers Cockatoo Docks Pty. Ltd. 1972-, W. R. Carpenter Holdings Ltd. 1970-; Vice-Pres. N.S.W. Soc. for Crippled Children 1950. *Leisure interest:* golf. *Address:* 56 Pitt Street, Sydney, N.S.W. 2000 (Office); 106 Victoria Road, Bellevue Hill, N.S.W. 2023, Australia (Home). *Telephone:* 27-2872 (Office); 36-7295 (Home).

KATIN, Peter; British pianist; b. 14 Nov. 1930, London; s. of Jerrold and Gertrude Katin; m. 1954; two s.; ed. Royal Acad. of Music; London debut, Wigmore Hall 1948; extensive concert tours in U.K., Europe, Africa, Canada, U.S.A. and Far East; special interest in Chopin; recordings for Decca, EMI, Unicorn, Everest, Philips, CFP, Lyrita and Pickwick Int.; Prof. Univ. of Western Ont. 1978; currently compiling book on Chopin; Chopin Arts Award (New York) 1977. *Leisure interests:* writing, tape-recording, fishing, theatre, reading, photography. *Address:* c/o Raymond Gubbay Ltd., 125 Tottenham Court Road, London, W1P 9HN, England; Direction Arts, Box 7275, Station A, Toronto M5W 1X9, Canada. *Telephone:* (416) 766 3687.

KATO, Ichiro, LL.D.; Japanese lawyer, professor and university administrator; b. 28 Sept. 1922, Tokyo; s. of Shuichi and Tomi Kato; m. Teruko Aoki 1947; one s. two d.; ed. Faculty of Law, Univ. of Tokyo. Assoc. Prof. of Law, Univ. of Tokyo 1948-57, Prof. of Law 1957-68, 1974-; Dean of Law and Acting Pres., Univ. of Tokyo 1968-69, Pres. 1969-73; Vice-Rector UN Univ. 1975-76, Sr. Adviser to the Rector 1976-; mem. Admin. Board Int. Assen. of Univs. 1970-; Pres. Nat. Univ. Assen. (Japan) 1969-73; Matsunaga Foundation Prize 1966. *Publications:* several books on civil law. *Leisure interests:* golf, "Go". *Address:* University of Tokyo, Hongo, Bunkyo-ku, Tokyo (Office); 10-30, Seijo 3-chome, Setagaya-ku, Tokyo, Japan (Home). *Telephone:* 03-416-2769.

KATO, Tadao; Japanese diplomatist; b. 13 May 1916, Tokyo; m. Yoko Kato 1956; two s.; ed. Tokyo Univ. and Univ. of Cambridge, England; Chief of Overseas Market Section, Int. Trade Bureau, Ministry of Int. Trade and Industry 1947-51; rejoined Ministry Foreign Affairs, Consul, Singapore 1952; First Sec., London 1953; Counsellor, Econ. Affairs Bureau, Foreign Office 1956-59; Deputy Dir. of Econ. Affairs Bureau 1963-66, Dir. 1966-67; Counsellor, Washington, D.C. 1960-63; Amb. to Org. for Econ. Co-operation and Devt. (OECD) 1967-70, to Mexico 1970-74, to U.K. 1975-79; Head Japanese del. to Int. Sugar Conf., UN, New York 1958, to Food Aid Conf., Rome 1974, to Gen. Assembly, UNIDOR 1975. *Leisure interests:* golf, "Go". *Address:* c/o Ministry of Foreign Affairs, Tokyo, Japan.

KATO, Takenori; Japanese politician; ed. Chuo Univ.; served in Home Affairs Ministry; mem. House of Councillors -1964, 1974-; fmr. Chair. House Social and Labour Affairs Cttee., House Cabinet Cttee.; fmr. Gov. Okayama Prefecture; Minister of Home Affairs 1977-78. *Address:* c/o Ministry of Home Affairs, 1-2, Kasumigaseki 2-chome, Chiyoda-ku, Tokyo, Japan.

KATUSHEV, Konstantin Fyodorovich; Soviet politician; b. 1 Dec. 1927; ed. Zhdanov Polytechnical Inst., Gor'kiy; mem. CPSU 1952-; Designer, senior engineer, deputy chief engineer at Gor'kiy automobile works 1951-57; Official of Gor'kiy Region Cttee. CPSU 1957-63, First Sec. 1965-68; First Sec. Gor'kiy city cttee. CPSU 1963-65; mem. Cen. Cttee. CPSU 1966-, Sec. Cen. Cttee. CPSU 1968-; Deputy to U.S.S.R. Supreme Soviet 1966-, mem. 1966-67, Chair. Comm. for Construction and Building Materials Industry, Soviet of the Union 1966-70; Chair. Exec. Cttee. COMECON 1978-; Order of Lenin and other decorations. *Address:* Central Committee of the CPSU, Staraya pl. 4, Moscow, U.S.S.R.

KATZ, Sir Bernard, M.D., D.SC., F.R.C.P., F.R.S.; British professor of biophysics; b. 26 March 1911, Leipzig, Germany; s. of Max Katz;

m. Marguerite Penly 1945; two s.; ed. Univs. of Leipzig and London; Biophysical Research, Univ. Coll. London 1935-39, Beit Memorial Fellow 1938-39; Carnegie Research Fellow, Sydney Hospital, Sydney, N.S.W. 1939-42; Royal Australian Air Force 1942-45; Asst. Dir. of Research in Biophysics and Henry Head Research Fellow, Royal Soc. 1946-50; Reader in Physiology, Univ. Coll. London 1950-51; Prof. of Biophysics and Head of Dept., Univ. Coll. London 1952-78; mem. Royal Soc., Sec. 1968, and Vice-Pres. 1970-76; mem. Agricultural Research Council 1967-77; Herter Lecturer, Johns Hopkins Univ. 1958; Dunham Lecturer, Harvard Univ. 1961; Croonian Lecturer, Royal Soc. 1961; Foreign mem. Accademia Nazionale Dei Lincei, Royal Danish Acad. of Sciences 1968, American Acad. Arts and Sciences 1969, U.S. Nat. Acad. Sciences 1976; Hon. D.Sc. (Southampton, Melbourne Univs.) 1971; Baly Medal, Royal Coll. of Physicians 1967, Copley Medal, Royal Soc. 1967, Nobel Prize for Physiology or Medicine 1970. *Publications:* Electric Excitation of Nerve 1939, Nerve, Muscle and Synapse 1966, The Release of Neural Transmitter Substances 1969. *Address:* Department of Biophysics, University College, Gower Street, London, W.C.1, England. *Telephone:* 01-387 7050.

KATZ, Katriel; Israeli diplomatist; b. 16 Oct. 1908, Poland; ed. Herzliya Gymnasium and Warsaw Univ.; went to Palestine 1924; Head, Dept. of Propaganda and Education, Haganah 1942-43; spokesman of the Haganah 1948; spokesman, Public Relations Office, Israel Defence Army 1949; on staff of Ministry of Foreign Affairs 1949-; former Head, Div. of Political Research; Chargé d'affaires, Budapest 1953-56; Minister to Poland 1956-58; Sec. to the Govt. 1958-62; Consul-Gen., New York 1962-65; Amb. to U.S.S.R. 1965-67; Chair. Yad-Vashem Memorial Authority, Jerusalem 1967-72; Amb. to Finland 1972-73; Deputy Chair. Israeli Council of Int. Relations 1974-; mem. Board of Governors, Hebrew Univ. 1975-, mem. Editorial Board, Magnes Pres Publishers, Hebrew Univ. 1976-. *Publications:* Five Years of Israel's Foreign Policy 1948-53, A Diplomat in Lands of Estrangement (Hebrew) 1976. *Address:* 4 Hamaapilim Street, Jerusalem, Israel.

KATZ, Milton, A.B., J.D., LL.D.; American professor of law; b. 29 Nov. 1907, New York; s. of Morris and Clara (Schiffman) Katz; m. Vivian Greenberg 1933; three s.; ed. Harvard Univ.; mem. anthropological expedition to Central Africa 1927-28; various official posts U.S. Govt. 1932-39; Lecturer on Law Harvard Univ. 1939-40, Prof. of Law 1940-50; Solicitor War Production Board 1941-43; U.S. Exec. Officer, Combined Production and Resources Board 1942-43; Office of Strategic Services 1943-44; Lieut.-Commdr. U.S.N.R. on active duty 1944-46; Ambassador of the U.S. and U.S. Special Rep. in Europe 1950-51; U.S. mem. Defence, Financial and Economic Cttee. under North Atlantic Treaty 1950-51; U.S. Rep. Economic Comm. for Europe (UN) 1950-51; Assoc. Dir. Ford Foundation 1951-54; Dir. Int. Legal Studies and Henry L. Stimson Prof. of Law, Harvard Univ. 1954-78 (Emer.); Chair. Cttee. on Manpower, White House Conf. on Int. Co-operation 1965; Consultant and Chair. Energy Advisory Board, U.S. Office of Technology Assessment 1974; mem. Advisory Board, Energy Lab., 1974-; Distinguished Prof. of Law, Suffolk Univ. 1978-; Fellow and Councillor American Acad. of Arts and Sciences; Dir. Int. Friendship League; mem. Corpn. Boston Museum of Science; Chair. Comm. on Life Sciences and Social Policy, Nat. Acad. of Sciences—Nat. Research Council; mem. panel on Technology Assessment, Nat. Acad. of Sciences 1968-69; mem. Visiting Comm., Dept. of Humanities, M.I.T. 1970-73; Sherman Fairchild Distinguished Scholar, Calif. Inst. of Tech. 1974; Consultant Programme on Social Man. of Tech., Univ. of Washington 1974; Co. Chair. A.B.A./A.A.A.S. Cttee. on Science and Law 1976-, mem. Nat. Acad. Engineering Cttee. on Technology and Int. Economy and Trade Issues; Trustee Carnegie Endowment for Int. Peace (Chair. of Board 1970-78), World Peace Foundation (Exec. Cttee.), Citizens Research Foundation (Pres. 1969-78), Brandeis Univ., Int. Legal Center (Chair. of Board 1971-78), Case Western Reserve Univ.; Legion of Merit, Commdr.'s Cross, Order of Merit (Fed. Repub. of Germany). *Publications:* Cases and Materials on Administrative Law 1947, Government under Law and the Individual (with others) 1956, The Law of International Transactions and Relations: Cases and Materials (with Kingman Brewster, Jr.) 1960, The Things that are Caesar's 1966, The Relevance of International Ajudication 1968, The Modern Foundation: Its Dual Nature, Public and Private 1968, Man's Impact on the Global Environment (with others) 1970, Assessing Biomedical Technologies (with others) 1975, Technology, Trade, and the U.S. Economy 1978 (with others). *Address:* Harvard Law School, Cambridge, Mass. (Office); 6 Berkeley Street, Cambridge, Mass., U.S.A. (Home). *Telephone:* 495-3115 (Office); Kirkland 7-0057 (Home).

KATZAROV, Konstantin, DR.JUR.; patent attorney; b. 1898, Sofia, Bulgaria, s. of Ivan Katzarov and Zana Koishova; one s.; ed. Univs. of Berne, Paris, Berlin and London; Prof. of Commercial Law, State Univ. Sofia 1931-56, of Commercial and Int. Law 1936-56; Lecturer, Univ. of Geneva; mem. Supreme Lawyers' Council 1940-46; founder and Pres. of Int. Law Assn. (Bulgarian Branch) 1923-49, life mem. Int. Law Assn.; mem. Slovak Acad. of Sciences 1934; Founder and mem. Admin. body, Foundation Katzarovi, Univ. of Geneva; mem. British Inst. of Int. and Comparative Law, American Soc. of Int. Law; Co-editor, World Copyright Encyclopaedia; del. to several int. confs. *Publications:* Nouveaux aspects de l'immunité de l'état 1957, Rapport sur la nationalisation 1958, Commercial Law, La planification comme problème juridique 1958, Théorie de la nationalisation (trans. Spanish, English, Arabic), Analyse de la victoire (trans. German), Industrial Property all over the World, Sixty Years History Lived (memoirs) 1970, and several other books in Bulgarian and other languages on various aspects of commercial and int. law, history, politics. *Address:* 26 rue du Lac, 1815 Clarens, Switzerland. *Telephone:* (022) 61-20-55.

KATZENBACH, Nicholas deBelleville: American lawyer and government official; b. 17 Jan. 1922; ed. Philips Exeter Acad., Princeton and Yale Univs. and Balliol Coll., Oxford; U.S. Army Air Force 1941-45; admitted to N.J. Bar 1950, Conn. Bar 1955, New York Bar 1972; with firm Katzenbach Gildea and Rudner, Trenton, N.J. 1950; Attorney-Adviser, Office of Gen. Counsel, Air Force 1950-52, part-time Consultant 1952-56; Assoc. Prof. of Law, Yale Univ. 1952-56; Prof. of Law, Univ. of Chicago 1956-60; Asst. Attorney-Gen., U.S. Dept. of Justice 1961-62, Deputy Attorney-Gen. 1962-64, Attorney-Gen. 1965-66; Under-Sec. of State 1966-69; Dir., Vice-Pres. and Gen. Counsel, IBM Corpn. 1969-; mem. American Bar Assn., American Judicature Soc., American Law Inst.; hon. degrees from Rutgers Univ., Univ. of Bridgeport (Conn.), Tufts Univ., Georgetown Univ., Princeton, Northeastern Univ., Brandeis Univ.; Democrat. *Publications:* The Political Foundations of International Law (with Morton A. Kaplan) 1961, Legal Literature of Space (with Prof. Leon Lipson) 1961. *Address:* IBM Corporation, Armonk, N.Y. 10504 (Office); 117 Library Place, Princeton, N.Y. 08540 (Home).

KATZER, Hans; German politician; b. 31 Jan. 1919, Cologne; m. Elisabeth Kaiser 1949; one d.; ed. Volksschule, Realgymnasium and Höhere Fachschule für Textil; Nat. and Mil. Service 1939-45; employed in Labour Office, Cologne 1945-49; Man. Dir.Social Cttee. of Christian Dem. Employees Assn. of Germany 1950-63, Chair. 1963-77, publisher of political monthly Soziale Ordnung; Man. Chair. of Jakob Kaiser Foundation 1963-65; mem. Union of Transport Workers; mem. Christian Democratic Union (CDU) 1945-; mem. Cologne City Council 1950-57; mem. Bundestag 1957-; Chair. Parl. Cttee. for Fed. Econ. Assets 1961-65; Fed. Minister of Labour and Social Welfare 1965-69; Grosses Bundesverdienstkreuz mit Stern 1969, mit Schulterband 1973. *Publications:* Aspekte moderner Sozialpolitik 1969, Bundestagsreden 1972. *Address:* 5000 Köln-Marienburg, Kastanienallee 7, Federal Republic of Germany.

KATZIR, Ephraim, M.SC., PH.D.; Israeli scientist, teacher and administrator; b. (as Ephraim Katchalski) 16 May 1916, Russia; s. of Yehuda and Tsila Katchalski; m. Nina Gotlieb 1938; one s. one d.; ed. Hebrew Univ., Jerusalem; Prof. and Head, Dept. of Biophysics, Weizmann Inst. of Sciences 1951-73; Chief Scientist, Ministry of Defence 1966-68; Pres. of Israel 1973-78; Katzir Chair of Biophysics, Bar Ilan Univ. 1976, Prof. Weizmann Inst. of Science 1978-, Prof. Tel Aviv Univ.; mem. Israel Acad. of Sciences and Humanities, Nat. Council for Research and Devt., Council for Higher Educ., Biochemical Soc. of Israel, Israel Chemical Soc., Nat. Acad. of Sciences, U.S.A., Leopoldina Acad. of Science, German Democratic Repub., American Soc. of Biological Chemists (Hon.), Royal Soc. of London (Foreign mem.), American Acad. of Arts and Sciences (Foreign Hon. mem.), Ciba Foundation, Int. Union of Biochemistry and many other orgs.; mem. of the Board, Analytical Biochemistry, Archives of Biochemistry and Biophysics, Biopolymers, Advances in Experimental Medicine and Biology series, Applied Biochemistry and Bioengineering series, Progress in Surface and Membrane Science, Applied Biochemistry (T.I.T. Journal of Life Sciences) Excerpta Medica and amino acids and proteins section of European Journal of Biochemistry; Hon. Prof. New York Inst. of Tech. 1975; Hon. Ph.D. (Brandeis, Michigan, Harvard, Northwestern, Hebrew and Tel-Aviv Univs. and Hebrew Union Coll., Jerusalem); Tchernikhovski Prize 1948; Weizmann Prize 1950; Israel Prize Natural Sciences 1959; Rothschild Prize Natural Sciences 1961; Linderstrøm-Lang Gold Medal 1969; Hans Krebs Medal 1972. *Publications:* Immobilized Enzyme Principals (co-editor) 1976; numerous papers and articles on proteins and polyamino acids, polymers and the structure and function of living cells. *Address:* Weizmann Institute of Science, P.O.B. 26, Rehovot, Israel.

KAUFFMANN, Howard C. B.S.; American business executive; b. 25 Feb. 1923, Tulsa, Okla.; s. of Howard C. Kauffmann and Polly Ethyl Myers; m. Suzanne McMurray 1944; four s. one d.; ed. Univs. of Tulsa and Oklahoma; joined Exxon Corpn. as trainee engineer 1946, on various operating assignments for Int. Petroleum Co. (Exxon subsidiary) 1957-62, Asst. Regional Co-ordinator for Latin America, Exxon Corpn. 1962-64, Vice-Pres., Exec. Vice-Pres., Pres. Int. Petroleum Co. 1964-66, Senior Vice-Pres., Dir. Exxón Corpn. 1974-75, Pres. 1975-; Pres. Esso Inter-America Inc. 1966-68, Exec. Vice-Pres., Dir. Esso Europe Inc. 1968-71, Pres., Dir. 1971-73. *Leisure interests:* tennis, golf, gardening *Address:* Exxon Corporation, 1251 Avenue of the Americas, New York, N.Y. 10020, U.S.A. (Office). *Telephone:* (212) 398-3000. (Office).

KAUFMANN, Johan; Netherlands diplomatist; b. 20 April 1918, Amsterdam; m.; one d.; entered Civil Service 1945; Commercial Sec. Netherlands Embassy, Washington, later Mexico; Counsellor, Perm. Mission to UN 1956-61; Minister Plenipotentiary, Office of UN and Int. Orgs., Geneva; Amb. Extraordinary and Plenipotentiary 1967-; Head Perm. del. to OECD 1969-73; Perm. Rep. to UN 1974-78; Pres. UNDP 1977; Amb. to Japan 1978-. *Publications:* How UN Decisions are Made 1958, Conference Diplomacy 1968. *Address:* Netherlands Embassy, 6-3 Shiba-Koen, 3-chome, Minatoku, Tokyo, Japan.

KAUL, Prince Mohan, M.B., B.S., D.P.H., F.R.C.P., F.I.A.M.S., F.P.H.A.; Indian physician and health official; b. 1 March 1906, Hindaon; s. of late S. M. Kaul and late Mrs. R. R. Kaul; m. Krishna Razdon 1935; one s. four d.; ed. Punjab Univ. and Guy's Hospital, London; Teacher, Infectious Diseases, and Medical Officer, Campbell Medical School, Calcutta 1933-34; commissioned Indian Medical Service 1934; army service, rose to Acting Col. 1934-45; Deputy, Public Comm. Govt. of India 1946; Deputy Dir.-Gen. Health Services, Ministry of Health; Dir. WHO Epidemiological Intelligence Station, Singapore 1947-49; Dir. WHO Liaison Office to UN, New York 1950-52; Dir. Div. External Relations and Technical Assistance 1953-56; Asst. Dir.-Gen. WHO 1956-67; Special Consultant to Dir.-Gen. WHO 1968-69; Consultant to WHO 1970-72, short-term Consultant 1973-75. *Leisure interest:* philately. *Address:* 17-G Maharani Bagh, New Delhi, India. *Telephone:* 631481.

KAUL, Triloki Nath; Indian diplomatist; b. 8 Feb. 1913, Baramulla, Kashmir; s. of T. Kaul Jalali and Gunwanti Kaul; m. Sati Kaul 1931; one s. one d.; ed. Univs. of Punjab, Allahabad, London; joined Indian Civil Service 1937; served in United Provinces as Joint Magistrate and Collector 1937-47; Sec. Indian Council of Agricultural Research, New Delhi 1947; First Sec. Indian Embassy, Moscow 1947-49, Washington 1949-50, Counsellor 1950-52, and Minister 1952-53, Peking; Joint Sec. Ministry of External Affairs, New Delhi 1953-57; Chair. Int. Comm. for Supervision and Control, Viet-Nam 1957-58; Amb. to Iran 1958-60; Deputy High Commr. U.K. 1960-61, Acting High Commr. 1961-62; Amb. to U.S.S.R. and Mongolia 1962-66; Sec. to Govt. of India, Ministry of External Affairs, New Delhi, June 1966-68; Sec.-Gen. Ministry of External Affairs 1968-73; Amb. to U.S.A. 1973-76; Pres. Indian Council for Cultural Relations 1977 (resigned April 1977). *Leisure interests:* reading, writing, teaching, travel, farming, photography. *Address:* Hermitage, Rajgarh via Solan (Himachal Pradesh), India.

KAULA, Prithvi Nath, M.A., M.LIBR.SC.; Indian professor of library science; b. 13 March 1924, Srinagar; s. of Damodar Kaula; m. Asha Kaula 1941; two s. three d.; ed. S.P. Coll., Srinagar, Punjab Univ., Delhi Univ., Banaras Hindu Univ. ; mem. Council, Indian Library Assen. 1949-53, 1956-62; Man. Ed. Annals, Bulletin and Granthalays of Indian Library Assen. 1949-53; Sec. Ranganathan Endowment for Library Science 1951-61; Gen. Sec. Delhi Library Assen. 1953-55, 1958-60, Vice-Pres. 1956-58; Visiting Lecturer in Library Science, Aligarh Muslim Univ. 1951-58; Reader Dept. of Library Science, Univ. of Delhi 1958-60; Vice-Pres. Govt. of Indian Libraries Assen. 1958-61; mem. Review Cttee. on Library Science, Univ. Grants Comm. 1961-63; Visiting Lecturer Documentation, Research and Training Centre, Bangalore 1962, 1965; Editor Herald of Library Science 1962-; Chair. Fed. of Indian Library Asscns. 1966, Pres. 1974-; mem. Governing Council, Nat. Library of India 1966-69; UNESCO Expert, UNESCO Regional Centre in the Western Hemisphere, Havana 1967-68; Gen. Sec. Indian Assen. of Teachers of Library Science 1969, Pres. 1973-; Editor Granthalaya Vijnana 1970-; Librarian, Banaras Hindu Univ., and Prof. of Library Science 1971-; Chair. Council of Literacy and Adult Educ. 1971-; Expert mem. UNESCO Advisory Group on Comparability of Higher Degrees in Library Science 1973-; Visiting Prof. 15 Indian Univs., 7 American Univs., Univ. of Havana, Hebrew Univ., Jerusalem, and Univs. in the G.D.R., Hungary and the U.S.S.R.; Consultant on Library Science to several int. orgs. and nat. asscns.; Organizing Sec. and Pres. of numerous confs.; Honoured by Int. Festschrift Cttee. 1974; Indian Library Movement Award 1974; Pro Mundi Beneficio Medal 1975. *Publications:* 37 publications and over 600 technical papers and book reviews on library science, labour problems and student unrest. *Leisure interests:* reading, writing, the study of library science. *Address:* C1, Banaras University, Varanasi 221005, India.

KAUNDA, Dr. Kenneth David: Zambian politician; b. 28 April 1924, Lubwa; ed. Lubwa Training School and Munali Secondary School; Schoolteacher at Lubwa Training School 1943, Headmaster 1944-47; Sec. Chinsali Young Men's Farming Assen. 1947; welfare officer, Chingola Copper Mine 1948; school teaching 1948-49; Founder-Sec. Lubwa branch, African Nat. Congress 1950, district organizer 1951, provincial organizer 1952, Sec.-Gen. for N. Rhodesia 1953; broke away to form Zambia African Nat. Congress 1958; Pres. United Nat. Independence Party 1960-; Minister of Local Govt. and Social Welfare, N. Rhodesia 1962-64; Prime Minister of N. Rhodesia Jan.-Oct. 1964; Pres. Pan-African Freedom Movement for East, Central and South Africa (PAFMECSA) 1963; First Pres. of Zambia Oct. 1964-, and Minister of Defence 1964-70, 1973-; Minister of Foreign Affairs 1969-70, also of Trade, Industry, Mines and State Participation 1969-73; Chancellor, Univ. of Zambia 1966-; Chair. Mining and Industrial Devt. Corpn. of Zambia April 1970-; Chair. Org. of African Unity (OAU) 1970-71, Non-Aligned Nations Conf. 1970-73, Hon. Dr. of Laws (Fordham, Dublin, Windsor (Canada), Sussex, York and Chile Univs.); Order of the Collar of the Nile, Knight of the Collar of the Order of Pius XII, Order of the Queen of Sheba, Jawaharlal Nehru Award for Int. Understanding, Quaide Azam Human Rights Inst. Prize (Pakistan) 1976. *Publications:* Black Government 1961, Zambia Shall Be Free 1962, A Humanist in Africa (with Colin Morris) 1966, Humanism in Zambia and its Implementation 1967. *Address:* State House, P.O. Box 135, Lusaka, Zambia. *Telephone:* 50122 (Lusaka).

KAUR, Prabhjot (see Prabhjot Kaur).

KAUSHIK, Purushottam Lal, LL.B.; Indian politician; b. 1930, Mahasamund; ed. Raipur, Sagar, Nagpur Univ.; joined Socialist Party 1952; engaged in political org. of Adivasi peasants and agricultural workers in Chattisgarh; organized hunger marches 1965, 1974; helped to form Kisan Khetihar Mazdoor Sangh (co-operative org.) in Chattisgarh; mem. Vidhan Sabha (legislature) of Madhya Pradesh for Mahasamund 1972-75; mem. Exec., Madhya Pradesh Unit of Socialist Party, also mem. Nat. Cttee.; Chair. Madhya Pradesh Socialist Party 1975-77; detained during emergency 1975-77; mem. Janata Party 1977-; mem. Lok Sabha from Raipur March 1977-; Minister for Tourism and Civil Aviation March 1977- *Address:* Ministry of Tourism and Civil Aviation, New Delhi, India.

KÄUTNER, Helmut; German film director, theatre director and playwright; b. 25 Aug. 1908; ed. Univ. of Munich and Acad. of Arts, Cologne; Film director 1939-; films incl. Romanze in Moll 1943, Unter den Brücken 1944, Nachts auf den Strassen 1952, Die letzte Brücke 1954, Der Hauptmann von Köpenick 1956, Der Zürcher Verlobung, Zu Jung, Schinderhannes, Das Glas Wasser, Schwarzer Kies; theatre director of plays by Anouilh, Wilder, Arthur Miller, Ustinov in Hamburg, Bochum, Berlin; opera director: König Pausole, Der Prinz von Homburg, Hamburg State Opera; mem. Akademie der Künste, Berlin; Kunstpreis Stadt Berlin 1956, Adolf-Grimme-Preis in Gold 1968, Grosses Bundesverdienstkreuz 1973. *Address:* 18c Königsallee, Berlin 33, Federal Republic of Germany.

KAUZMANN, Walter Joseph, PH.D.; American professor of chemistry; b. 18 Aug. 1916, Mount Vernon, New York; s. of Albert Kauzmann and Julia Kahle; m. Elizabeth Flagler 1951; two s. one d.; ed. Cornell, Princeton Univs.; Research Fellow, Westinghouse Co.; with Nat. Defense Council Explosives Research Lab.; worked on Atomic Bomb project, Los Alamos Labs., New Mexico 1944-46; Asst. Prof. Princeton Univ. 1946-51, Assoc. Prof. 1951-60, Prof. 1960-, David B. Jones Prof. of Chem. 1963-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Chem. Soc., American Physical Soc., American Assen. for the Advancement of Science, Fed. of American Scientists, American Soc. of Biochemists; Guggenheim Fellow 1957, 1974-75; Visiting Lecturer Kyoto Univ. 1974, Ibadan Univ. 1975; first recipient Kaj Ulrik Linderstrøm-Lang Medal 1966. *Publications:* Introd. to Quantum Chemistry 1957, Thermal Properties of Matter (2 vols.) 1966, 1967, Structure and Properties of Water 1969. *Address:* Department of Chemistry, Princeton University, Princeton, N.J. 08540, U.S.A.

KAVERIN, Venyamin Aleksandrovich; Soviet writer; b. (as Venyamin Zilber) 19 April 1902, Pskov; ed. Inst. of Oriental Languages, Leningrad Univ.; began publishing 1922; leader in '20s of Serapion Brotherhood; three Orders of Merit, State Prize 1946.

Publications: Masters and Apprentices (stories) 1923, An "Enfant Terrible" (Russian Skandalist) 1931, A Blueprint for ■ Man (story) 1931, Artist Unknown 1931, Fulfilment of Desires 1934-36, 1938 (English trans. The Larger View, Moscow 1959), Selected Stories 1935, Stories 1943, We Became Alien 1943, Two Captains 1938-44, 1947, 1961, 1973, An Open Book 1955 (English trans., Moscow 1965), Plays 1959, The Unknown Friend 1960, Three Stories 1960, Slanting Rain (stories) 1963, Collected Works (6 vols.) 1963-66, Writing's No Easy Business, Brother (memoirs) 1965, Baron Brambeus 1966, Double Portrait 1966, The School Play 1968, Before the Mirror 1971, In the Old House (Literary memoirs) 1971, The Interlocutor (memoirs) 1973, Illuminated Windows: A Story 1974.

KAWAGUCHI, Kaichi; Japanese international financial official; b. 13 April 1922, Wakayama; s. of Toshio and Saki Kawaguchi; m. Yukiko Fujii 1949; three d.; ed. Tokyo Univ.; entered Ministry of Finance 1947; First Sec. Embassy in Belgium and France 1961-65; Dir. Tokyo Customs House 1969-70; Insurance Comm., Ministry of Finance 1971-72; Exec. Dir. IMF 1972-76. *Address:* c/o Ministry of Finance, Tokyo, Japan.

KAWAGUCHI, Toshiro; Japanese business executive; b. 9 July 1909, Shizuoka Prefecture; s. of Hidesaku and Yone Kawaguchi; m. Fumie Kawaguchi 1942; two s. two d.; ed. Tokyo Univ.; Dir. Honshu Paper Co. Ltd. 1964-66, Man. Dir. 1966-69, Exec. Dir. 1969-70, Exec. Vice-Pres. 1970-71, Pres. and Chief Exec. Dir. 1971-74, now Chair. *Leisure interests:* Noh and Bonsai. *Address:* 15-3 Okamoto 1-chome, Setagaya-ku, Tokyo, Japan (Home). *Telephone:* 03-700-8525.

KAWAI, Ryoichi; Japanese business executive; b. 18 Jan. 1917; s. of Yoshinari Kawai and Chieko Kawai; m. 1st Kiyoko Kawai 1942 (died 1973), 3 s.; m. 2nd Junko Kawai 1976; ed. Tokyo Univ.; Pres., Komatsu Ltd. *Leisure interest:* golf. *Address:* Komatsu Building, 3-6, 2-chome Akasaka, Minato-ku, Tokyo, Japan.

KAWAI, Takaharu; Japanese business executive; b. 1905; ed. Kyoto Univ.; Pres. and Rep. Dir. Nippon Mining Co. Ltd.; Chair. of Board May 1974-. *Address:* Nippon Mining Co. Ltd. 3 Akasaka-Aoicho, Minato-ku, Tokyo; 3-4-13 Nishiohi, Shinagawa-ku, Tokyo, Japan. *Telephone:* (03) 582-2111.

KAWAKAMI, Kenjiro; Japanese business executive; b. 22 Dec. 1906, Ohsaka-fu; s. of Shoshiro Kawakami and Haru (Nishizaki); m. Kimiko Satani 1944; one s. one d.; ed. Tokyo Imperial Univ.; joined Sumitomo & Co. Ltd. (later Sumitomo Head Office Ltd.) April 1929; transferred to Sumitomo Copper Rolling & Steel Tubing Co. Ltd. (now Sumitomo Metal Industry Co. Ltd.) Sept. 1929; Sumitomo Head Office Ltd. 1944; Seika Kogyo Co. Ltd. (now Sumitomo Coal Mining Co. Ltd.) 1946, Dir. 1946, Man. Dir. 1948; Man. Dir. Sumitomo Metal Mining Co. Ltd. 1950, Senior Man. Dir. 1956, Pres. 1963-, Chair of Board 1973, Sr. Adviser 1978; ■■■ Japan Cttee. for Econ. Devt.; Order of Sacred Treasure (First Class). *Leisure interests:* Japanese traditional music, "Kiyomoto" and golf. *Address:* Sumitomo Metal Mining Co. Ltd., 11-3, 5-chome, Shimbashi, Minato-ku, Tokyo (Office); 5-26-1 Kataseyama, Fujisawa-shi, Kanagawa Pref., Japan (Home). *Telephone:* 03-434-2211 (Office); 0466-23-3018 (Home).

KAWAMATA, Katsuji; Japanese business executive; b. 1 March 1905, Ibaragi Pref.; three s. one d.; ed. Tokyo Univ. of Commerce; Japan Industrial Bank 1929-47, Branch Man. Hiroshima 1946-47; Man. Dir. Nissan Motor Co. 1947-57, Pres. 1957-73, Chair. 1973-; Chair. Nissan Diesel, Nissan Shatai; Chair. Japan Automobile Manufacturers Assn. Inc. 1962-72; Vice-Pres. Fed. of Econ. Orgs. (Keidanren); Blue Ribbon Medal 1962, Educ. Minister's Commendation 1974, 1st Order Sacred Treasure 1975. *Address:* Nissan Motor Co. Ltd., 17-1, 6-chome, Ginza, Chuo-ku, Tokyo (Office); 24-5, Matsugaoka 1-chome, Nakano-ku, Tokyo, Japan (Home). *Telephone:* (03) 543-5523 (Office).

KAWASAKI, Kunio; Japanese business executive; b. 23 Sept. 1907, Osaka; s. of Suketaro and Jiu Kawasaki; m. Haruko Yamaguchi 1935; two s.; ed. Tokyo Univ.; Japan Woollen Yarn Spinning Co. Ltd. 1932-42, Toyobo Co. Ltd. (after merger) 1942-, Dir. 1956-57, Man. Dir. 1957-61, Senior Man. Dir. 1961-63, Vice-Pres. 1963-66, Pres. 1966-74, Chair. 1974-78, Counsellor 1978-; Auditor Japan Exlan Co. Ltd. (acrylic fibres) 1966-76; Exec. Dir. Fed. of Econ. Orgs. 1966-78; Exec. Dir. Japan Fed. of Employers' Asscns. 1967-76; Exec. Dir. Kansai Econs. Fed. 1966-68, Vice-Pres. 1968-; Pres. Toyobo Petcord Co., Ltd. 1969-76; Pres. Osaka-São Paulo Sister City Assn. 1970-74, Dir. 1974-; Gen. Counsellor, Toyo Rubber Industry Co. Ltd. 1971-; Chair. Japan Spinners' Assn. 1972-73; Pres. Japan Textile Colour Design Centre 1972-76; Exec. Dir. Japan Textile Fed. 1973-78; Pres. Kansai Inst. Students Inst. 1974-76, Osaka Int. Trade Fair Comm. 1974-77; Vice-Pres. Japan Overseas Enterprise Assn. 1974-; Blue Ribbon Medal 1969. *Leisure interest:* gardening. *Address:* 1-28, 1-chome, Hibarigaoka Yamate, Takarazuka City, Hyogo Prefecture, 665, Japan (Home). *Telephone:* 0727-59-2556 (Home).

KAWAWA, Rashidi Mfaume; Tanzanian politician; b. 1929, Songea; ed. Tabora Secondary School; fmr. Pres. of the Tanganyikan Fed. of Labour; Minister of Local Govt. and Housing 1960-61; Minister without Portfolio 1961-62; Prime Minister Jan.-Dec. 1962, Vice-Pres. 1962-64; Second Vice-Pres., United Republic of Tanzania 1964-77, also Prime Minister 1972-77; Minister of Defence and Nat. Service Feb. 1977-; Vice-Pres. of TANU (Tanganyika African Nat. Union). *Address:* Ministry of Defence, Dar ■■ Salaam, Tanzania.

KAWUSU CONTEH, Sheku Bockari; Sierra Leonean politician; b. 1928; m.; c.; ed. Koyeima Govt. Secondary School; Sec. Koinadugu District Council 1956-59; Town Clerk, Bo Municipality 1962, 65-68; Exec. Officer, Cen. Govt. 1964-65; mem. Parl. 1967-; Deputy Minister, Prime Minister's Office 1968-69; Minister of Housing and Country Planning 1969-70; Resident Minister for the Southern Province 1970-71; Acting Prime Minister Sept. 1970; Minister of Interior May-Nov. 1971, of Lands and Mines 1971-77; Philip Murray-William Green Humanitarian Award 1978. *Address:* c/o Ministry of Mines, Freetown, Sierra Leone.

KAYE, Danny; American actor and comedian; b. (as David Daniel Kaminsky) 18 Jan. 1913, New York; s. of Jacob and Clara (Nemerovsky) Kaminsky; m. Sylvia Fine 1940; ■■ d.; *stage appearances include:* Straw Hat Revue 1939, Lady in the Dark 1940, Let's Face It 1941, Two by Two 1970; *films include:* Up in Arms 1943, Secret Life of Walter Mitty 1946, A Song is Born 1947, The Inspector General 1948, Hans Christian Andersen 1952, Knock on Wood, White Christmas 1954, Court Jester 1955, The Five Pennies 1959, On the Double 1961, The Man from the Diner's Club 1963, The Madwoman of Chaillot 1969, Peter Pan (TV musical) 1975, Pinocchio (TV) 1976. Amb.-at-Large for UN Children's Fund; founder, man. gen. partner, Seattle Mariners Baseball Team 1976-; special Acad. Award 1954; Emmy award for The Danny Kaye Show (TV) 1963. *Address:* c/o Rogers, Cowan and Taplinger, 415 Madison Avenue, New York, N.Y. 10022, U.S.A.

KAYINGA ONSI NDAL; Zairian agronomist; b. 1934, Mangai; m.; six c.; ed. Institut Vétérinaire de Dureghem, Belgium; fmrly. Counsellor at the Presidency; State Commr. for Agriculture 1970-77. *Address:* c/o Office of the State Commissioner for Agriculture, Kinshasa, Zaire.

KAYLA, Ziya; Turkish economist; b. 1912, Istanbul; s. of Col. Sevki Kayla and Zehra Vefkioglu; m. Sevinc Cenk 1967; ed. School of Political Sciences, Istanbul; Ministry of Finance 1934-63, Asst. Inspector, Inspector and Chief Inspector of Finance 1934-60, Deputy Minister of Finance 1960-63; Chair. Board of Dirs. and Dir.-Gen. Central Bank of Turkey 1963-66; Alternate Gov. for Turkey of Int. Bank for Reconstruction and Devt. 1961-65; Pres. Banks' Assn. of Turkey 1963-66; Sec.-Gen. Comm. of Regulation of Bank Credits 1963-66; Head of Foreign Investment Encouragements Cttee. 1963-66; mem. Board of Controllers of the Prime Ministry 1966-70; Chair.Türkiye Vakiflar Bankasi 1971-76; mem. Board Central Bank of Turkey 1978-. *Publications:* Emission Movements in Turkey 1967, Treasury and Central Banks Relations 1970. *Leisure interest:* writing articles on economics for newspapers. *Address:* Mesnevi Sokak 8/8 Çankaya, Ankara, Turkey. *Telephone:* 27-10-30.

KAYSEN, Carl, A.B., M.A., PH.D.; American economist; b. 5 March 1920, Philadelphia; m. Annette Neutra 1940; s. of Samuel and Elizabeth Resnick; two d.; ed. Overbrook High School, Philadelphia, Univ. of Pennsylvania and Harvard Univ.; Nat. Bureau of Econ. Research 1940-42; Office of Strategic Services, Washington, D.C. 1942-43; U.S. Army (Intelligence) 1943-45; Teaching Fellow in Econs., Harvard Univ. 1947, Junior Fellow, Soc. of Fellows 1947-70, Asst. Prof. in Econs. 1950-55, Assoc. Prof. 1955-57, Prof. 1957-66, Assoc. Dean, Graduate School of Public Admin. 1960-66, Lucius N. Littauer Prof. of Political Economy 1964-66; Dir., Inst. of Advanced Study, Princeton 1966-76, Prof. of Social Science 1976-77; David W. Skinner Prof. Political Econ., M.I.T. 1976-; Vice-Chair. and Dir. Research, Sloan Comm. on Govt. and Higher Educ. 1977-; Senior Fulbright Research Scholar, London School of Econs. 1955-56; Econ. Consultant to Judge Wyzanski, Fed. District Court of Mass. 1950-52; Deputy Special Asst. to Pres. for Nat. Security Affairs 1961-63. *Publications:* United States v. United Shoe Machinery Corporation, an Economic Analysis of an Anti-Trust Case 1956, The American Business Creed (with others) 1956, Anti-Trust Policy (with D.F. Turner) 1959, The Demand for Electricity in the United States (with Franklin M. Fisher) 1962, The Higher

Learning, the Universities and the Public 1969. *Address:* Massachussets Institute of Technology, 20D-219, Cambridge, Mass. 02139, U.S.A. *Telephone:* (617)253-4054 (Office); (617) 661-0004 (Home).

KAYSER, Elmer Louis, B.ED., M.A., LL.D., PH.D., L.H.D.; American historian; b. 27 Aug. 1896, Washington, D.C.; s. of Louis S. and Sue (Huddleston) Kayser; m. Margery Ludlow 1922; one d.; ed. George Washington Univ., Johns Hopkins Univ., and Columbia Univ.; Asst. in History, George Washington Univ. 1914-17, Instructor 1917-20, Asst. Prof. 1920-24, Assoc. Prof. 1924-32, Prof. of European History 1932-67, Prof. Emer. 1967-; Asst. Librarian 1914-18, Recorder 1918, Sec. 1918-29, Dir. of Univ. students 1930-34, Univ. Marshal 1932-53, Dean 1934-62, Dean Emer. 1967-; Univ. Historian 1962-; Sec.-Treas. 1918-24, Vice-Pres. 1947-50, Pres. 1950-53, Gen. Alumni Assen.; Historian Nat. Capital Sesquicentennial Comm. 1950; Lay Chair. Cttee. for Improvement of Admin. of Justice in D.C.; Vice-Chair. Board of Trustees, Mount Vernon Seminary 1946-66, Hon. Dir. Mount Vernon Coll. 1966-; Dir. American Peace Soc.; Assoc. Chair. School of Govt., George Washington Univ. 1957-58; Assoc. Editor World Affairs; Cand. Officer, Field Artillery, U.S. Army 1918; radio commentator on foreign affairs 1939-45; Sec. Navy's Advisory Cttee. on Naval History; Treas. American Historical Assen. 1957-73; Vice-Pres. Columbia Historical Soc. 1968-; Alumni Achievement Award, George Washington Univ. 1941, George Washington Award 1977, Commdr. Nat. Order of Merit (Ecuador). *Publications:* The Grand Social Enterprise 1932, A Manual of Ancient History 1937, Contemporary Europe 1941 (co-author), Washington's Bequest to ■ National University 1965, The George Washington University 1921-1966 1966, Luther Rice, Founder of Columbian College 1966, Bricks without Straw 1970, A Medical Center 1973. *Leisure interest:* book collecting. *Address:* The George Washington University, Washington D.C. 20037 (Office); 2921 34th Street, Northwest, Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 202-676-6535.

KAZAKOV, Yuriy Pavlovich; Soviet short-story writer; b. 8 Aug. 1927, Moscow; began publishing 1952. *Publications:* collections of short stories: Manka 1958, The Small Station 1959, On the Road 1961, Blue and Green 1963, The Smell of Bread 1965, Arcturus, The Hunting Dog 1958, Two in December 1966, Autumn in the Oakwoods 1969, A Northern Diary 1973; English trans.: Selected Short Stories (New York) 1963, The Smell of Bread and Other Stories (London) 1965, Autumn in the Oakwoods (Moscow) 1970.

KAZAN, Elia (Elia Kazanjoglous); American (of Greek extraction) stage and film director; b. 7 Sept. 1909, Istanbul; m. Barbara Loden; ed. Williams Coll. and Yale Dramatic School; Apprentice and Stage Man. with Group Theatre; acted on stage 1935-41 in Waiting for Lefty, Golden Boy, Gentle People, Fire-Alarm Waltz, Liliom and in two films City for Conquest and Blues in the Night 1941; Stage Dir. Skin of Our Teeth (Drama Critics Award), One Touch of Venus, Harriet, Jacobowsky and the Colonel (Drama Critics Award), Streetcar Named Desire, Death of a Salesman (Drama Critics Award), Tea and Sympathy, Cat on ■ Hot Tin Roof (Drama Critics Award), The Dark at the Top of the Stairs, J. B., Sweet Bird of Youth, for Lincoln Center Repertory Theatre After the Fall, But for Whom Charlie, The Changeling; film dir. A Tree Grows in Brooklyn 1945, Gentlemen's Agreement (Academy Award) 1947, Boomerang 1947, Pinky 1949, Panic in the Streets 1950, Streetcar Named Desire 1951, Viva Zapata 1952, Man on ■ Tightrope 1953, On the Waterfront (Acad. Award) 1954, East of Eden 1955, Baby Doll 1956, A Face in the Crowd 1957, Wild River 1960, Splendor in the Grass 1961, America, America 1963, The Arrangement 1969, The Visitors 1972, The Last Tycoon 1976; Novels: America, America 1962, The Arrangement 1967, The Assassins 1972, The Understudy 1974, Acts of Love 1978; fmr. Dir. of Actors Studio. *Address:* 850 7th Avenue, New York City, N.Y. 10019, U.S.A. (Office).

KAZANETS, Ivan Pavlovich; Soviet politician; b. 12 Dec. 1918; ed. Siberian Metallurgical Inst.; Electrician, Head of Workshop, Kuznetsk Metallurgical Factory 1937-44; mem. CPSU 1944-; Shift Foreman, Trainee Electricians Factory, Yenakievo, Rep. Sec. Factory Cttee. 1944-52; First Sec. Yenakievo City Cttee. CP Ukraine, later First Sec. Makeyev City Cttee. CP Ukraine 1952-53; First Sec. District Cttee., Donetsk 1953-60; Sec. and mem. Central Cttee., CP of Ukraine 1960-63, Chair. Council of Ministers of Ukraine 1963-65; Minister of Iron and Steel Industry, U.S.S.R. 1965-; Cand. mem. Cen. Cttee. CPSU 1956-61, mem. 1961-; Deputy to U.S.S.R. Supreme Soviet 1954-; Order of Lenin (five times), Order of October Revolution and other decorations. *Address:* Ministry of Iron and Steel Industry, 2/5 Ploshchad Nogina, Moscow, U.S.S.R.

KAZEMI, Abdul Muttaleb al-, M.A.ECONS.; Kuwaiti politician; b. 1937, Kuwait; m. 1969; one s. one d.; ed. Cairo Univ., Boulder Univ., Colorado; Dir.-Gen. State Budget Dept., Ministry of Finance and Oil 1961-71; mem. Nat. Assembly 1971-; Chair. Nat. Ass. Financial and Econ. Cttee.; Dir. Arabian Oil Co. until 1967; Man. Dir. Kuwait Int. Investment Co. 1973-75; Minister of Oil 1975-78; rep. to many confs. including Afro-Asian Conf. for Econ. Co-operation. *Address:* c/o Ministry of Oil, P.O. Box 5077, Kuwait. *Telephone:* 433637.

KAZEMZADEH, Hossein, LL.B.; Iranian lawyer and politician; b. 1923, Shiraz; ed. Univ. of Teheran and Princeton Univ., U.S.A.; Asst. Lecturer, Inst. of Business and Admin., Teheran Univ.; fmr. Deputy Man. Dir. Planning Org.; Deputy Prime Minister; fmr Dir. Budget Dept.; fmr Consulting Minister and Sec. Gen. Org. for Admin. Affairs and Employment; Minister of Science and Higher Educ. until 1973.

KAZIN, Alfred, M.A.; American writer; b. 5 June 1915; ed. New York City Coll. and Columbia Univ.; began his career ■ free-lance literary reviewer 1934; Instructor in English Literature successively at New York City Coll., Queen's Coll., New School 1937-41; Literary Ed. New Republic 1942, Assoc. Ed. Fortune; War Corresp. in Great Britain 1945; Prof. of American Studies, Amherst Coll. 1955-58; Berg Prof. of Literature, New York Univ. 1957; Distinguished Prof. of English, State Univ. of N.Y., Stony Brook 1963-73, Hunter Coll., City Univ., New York 1973-; Writer-in-residence, American Acad. in Rome 1975; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Sciences; Sr. Fellow, Nat. Endowment Humanities, Center for Advanced Study of Behavioral Sciences, Stanford 1977-78; Brandeis Univ. Medal 1973, Creative Award in Literature 1973. *Publications:* On Native Grounds: An Interpretation of Modern American Literature 1942, A Walker in the City 1951, The Inmost Leaf 1955, Contemporaries 1962, Starting Out in the Thirties 1965, Bright Book of Life 1973, New York Jew 1978; edited: The Portable Blake 1946, F. Scott Fitzgerald: The Man and His Work 1951, The Stature of Theodore Dreiser 1955, Melville's Moby Dick 1956, Ralph Waldo Emerson: A Modern Anthology 1958, The Open Form: Essays for Our Times 1961, The Short Stories of Nathaniel Hawthorne 1966, The Ambassadors 1969. *Address:* 440 West End Avenue, New York, N.Y. 10024, U.S.A. (Home).

KAZNIN, Georgiy Vladimirovich; Soviet lawyer; b. 2 March 1922, Boyarnshchiuo, Yaroslavl Region; ed. U.S.S.R. Correspondence Inst. of Law; Chair. of Regional Court, Pskov, N.W. R.S.F.S.R. until 1961; mem. Collegium of Ministry of Justice of R.S.F.S.R. 1961-63; on staff of Cen. Cttee. of CPSU 1962-63; mem. U.S.S.R. Supreme Court 1965-; Order of Badge of Honour and other decorations. *Address:* U.S.S.R. Supreme Court, 15 Ulitsa Vorovskogo, Moscow, U.S.S.R.

KE HUA; Chinese diplomatist; b. 1915, Guang Tung Province; fmr. Head of Protocol Dept., Head of West Asia and Africa Dept., Ministry of Foreign Affairs; former Amb. to Guinea, Ghana and the Philippines; Amb. to U.K. 1978-. *Address:* Embassy of the People's Republic of China, 31 Portland Place, London, W1N 3AG, England.

KEARNEY, Richard D., LL.B.; American lawyer; b. 3 Jan. 1914, Dayton, Ky.; s. of David Richard Kearney and Mary Estelle Manouge; m. Margaret Helen Murray 1944; ed. Xavier High School and Univ., Cincinnati and Univ. of Cincinnati; practising lawyer, Cincinnati 1938-41; Special Attorney, Anti-Trust Div., Dept. of Justice 1941-42; U.S. Army 1942-46; Legal Div., Mil. Govt. Headquarters, Berlin 1946-48; Chief, Legal Group, Bipartite Control Office, Frankfurt 1948-49; Asst. Gen. Counsel, Office of U.S. High Commr. for Germany 1949; German Bureau, Dept. of State 1950; Gen. Counsel, Tripartite Comm. on German External Depts. 1951-53; Deputy U.S. mem., Validation Board for German Dollar Bonds 1953-56; Asst. Legal Adviser for Far Eastern Affairs, Dept. of State 1956-57, for European Affairs 1957-62; Deputy Legal Adviser 1962-67; mem. UN Int. Law Comm. (with ambassadorial rank) 1967-77, Pres. 1972-73; Chair. Sec. of State's Advisory Cttee. on Private Int. Law 1964-78; mem. Gov. Council, Int. Inst. for Unification of Private Law 1966-78, Senior Advisor American Soc. of Int. Law (Vice-Pres. 1978-), American Acad. of Political and Social Science, American Law Inst; Chair. or mem. U.S. Dels. to several int. confs. on legal matters. *Publications:* articles on codification and unification of law in several professional journals. *Address:* 167 Friar Tuck Hill, Sherwood Forest, Md. 21405, U.S.A. (Home).

KEARNS, Henry, D.B.A.; American business executive; b. 30 April 1911, Salt Lake City, Utah; s. of Henry A. and Mary O. Robbins Kearns; m. Marjorie Prescott 1938; two s. two d.; ed. Univ. of Utah; Asst. Sec. of Commerce for Int. Affairs 1957-60; fmr. Vice-Pres. Pike Corpn.; Pres. Nat. Engineering Science Co., Kearns International; now Chair. Kearns International; Dir. Washington Financial Center, FMC Corpn. American Int. Group Inc.; Pres. and Chair.

Export-Import Bank of U.S.A. 1969-73; Trustee Woodbury Univ.; Hon. doctorates, Woodbury Coll., Los Angeles and Chungang Univ. *Leisure interest:* golf. *Address:* Kearns International, 155 Sansome Street, San Francisco, Calif. 94104 (Office); 1960 Vallejo Street, San Francisco, Calif. 94123, U.S.A. (Home). *Telephone:* 415-986-2900 (Office).

KEARTON, Baron (Life Peer), cr. 1970, of Whitchurch; **Christopher Frank Kearton,** Kt., O.B.E., F.R.S.; British scientist and industrialist; b. 17 Feb. 1911; ed. Hanley High School and St. John's Coll., Oxford; Imperial Chemical Industries Billingham Div. 1933-40; Atomic Energy Project, U.K. and U.S.A. 1940-45; Courtaulds Ltd. 1946-, in charge Chemical Engineering 1946, Dir. 1952-, Deputy Chair. 1961, Chair. 1964-75; part-time mem. U.K. Atomic Energy Comm. 1955-; mem. Electricity Supply Research Council 1954, Chair. 1960-77; mem. Govt. Advisory Council on Technology 1964-70, Nat. Econ. Devt. Council 1965-71; Chair. Industrial Reorganization Corpn. 1966-68; mem. Cen. Advisory Council for Science and Technology 1969-70; Dir. Hill Samuel 1970-; Pres. Royal Soc. for the Prevention of Accidents (ROSPA) 1973-, Soc. of Chemical Industry 1972-73; Part-time mem. Cen. Electricity Generating Board 1974-; Chair. East European Trade Council 1975-77; Chair. and Chief Exec. British Nat. Oil Corpn. 1976-79; mem. U.K. Energy Comm.; mem. Offshore Energy Tech. Board 1976-; Pres. British Assn. for Advancement of Science 1978-; Companion, Textile Inst.; Hon. mem. Inst. of Chemical Engineers; Hon. Fellow, Soc. of Dyers and Colourists; Hon. Fellow, St. John's Coll., Oxford 1965, Manchester Coll. of Science and Tech. 1966, Imperial Coll. of Science and Tech., Birmingham; Hon. LL.D. (Leeds), Hon. D.Sc. (Bath, Aston, Reading, Keele Univs., New Univ. of Ulster), Hon. D.C.L. (Oxford) 1978. *Address:* The Old House, Whitchurch, nr. Aylesbury, Bucks., England.

KEATING, Justin; Irish politician and veterinary surgeon; b. 1931; s. of Sean Keating; m.; three c.; ed. Veterinary Coll., Univ. Coll., Dublin and London Univ.; Lecturer in Anatomy, Veterinary Coll., Ballsbridge 1955-60; Senior Lecturer, Dept. of Preclinical Studies, Trinity Coll., Dublin 1960-65, 1967-; Head Agricultural Programmes, Radio Telefís Eireann 1965-67; mem. Dail for North Co. Dublin 1969-; Labour Party Rep. to European Parl.; Minister for Industry and Commerce 1973-77. *Address:* c/o Ministry for Industry and Commerce, Kildare Street, Dublin 2, Ireland.

KEATING, Paul John Geoffrey; Irish diplomatist; b. 13 Aug. 1924, Dublin; s. of Joseph Hannan Keating and Mary Mercedes Joyce; m. Anne Teresa MacGowan 1952; one s. one d.; ed. Presentation Coll., Glasthule, Trinity Coll., Dublin, Sorbonne, Paris; entered Irish Foreign Service 1949; Vice-Consul, New York 1951, Second Sec., Perm. Mission to UN, New York 1956-59; Dept. of Foreign Affairs 1959, First Sec. 1960; First Sec., London 1962, Counsellor 1964; Chief of Protocol, Dept. of Foreign Affairs 1967-68; Amb. to Nigeria 1968-70, to Fed. Repub. of Germany 1970-72; Asst. Sec. and Political Dir., Dept. of Foreign Affairs 1972, Deputy Sec. 1973, Sec. 1974-77; Amb. to U.K. 1977-78; Perm. Rep. of Ireland to UN 1978-; Grand Officier, Order of Leopold II (Belgium). *Leisure interests:* reading, theatre, walking. *Address:* Perm. Mission of Ireland to United Nations, 885 Second Avenue (19th Floor), New York, N.Y. 10017. *Telephone:* 01-235 2171.

KEATING, Stephen Flaherty, B.S., J.D.; American business executive; b. 6 May 1918, Graceville, Minn.; s. of Luke J. and Blanche F. Keating; m. Mary Davis 1945; two s. two d.; ed. Univ. of Minnesota; admitted to Minn. Bar 1942; Special Agent, F.B.I., Norfolk, Va., Detroit 1942-43; U.S. Naval Reserve 1943-46; Assoc. Otis, Faricy & Burger, St. Paul 1946-48; Man. Mil. Contracts, Aero Div., Honeywell Inc. 1948-54, Div. Vice-Pres. 1954-56, Vice-Pres. 1956-62, Dir. 1960-, Exec. Vice-Pres. 1961-65, Pres. 1965-74, Chair. of Board 1974-78, Vice-Chair of Board 1978-; Dir. Gen. Mills Inc., The Toro Co., Dayton Hudson Corpn., PPG Industries Corpn., Donaldson Co.; Chair., Bd. of Trustees, Mayo Foundation, Rochester, Minn.; Chair., Fed. Reserve Bank of Minneapolis; mem. Gov. Board of United Way of America. *Leisure interests:* golf, hunting. *Address:* c/o Honeywell Inc., Honeywell Plaza, Minneapolis, Minn. 55408, U.S.A. *Telephone:* (612) 870-2595.

KEDAH, H.R.H. The Sultan of; Tuanku Abdul Halim Mu'adzam Shah ibni Al-Marhum Sultan Badlshah, D.K., D.K.H., D.K.M., D.M.N., D.U.K., S.P.M.K., D.K. (KELANTAN), D.K. (PAHANG), D.K. (SELANGOR), D.P. (SARAWAK), S.S.D.K.; Ruler of Kedah, Malaysia; b. 28 Nov. 1927, Alor Setar; m. Tuanku Bahiyah binti Al-marhum, Tuanku Abdul Rahman, d. of 1st Yang di Pertuan Agong of Malaya, 1956; three d.; ed. Sultan Abdul Hamid Coll., Alor Setar and Wadham Coll., Oxford; Raja Muda (Heir to Throne of Kedah) 1949, Regent of Kedah 1957, Sultan 1958; Timbalan Yang di Pertuan Agong (Deputy Head of State of Malaysia) 1965-70, Yang di Pertuan Agong (Head of State) 1970-75; Col. Commdt. Malaysian Reconnaissance Corps 1966; Col.-in-Chief of Royal Malay Regiment 1975; First Class Order of the Rising Sun (Japan) 1970, Bintang Maha Putera, Klas Satu (Indonesia) 1970, Knight Grand Cross of the Bath (U.K.) 1972, Knight of the Order of St. John 1972, Most Auspicious Order of the Rajamithrathorn (Thailand) 1973. *Leisure interests:* golf, billiards, photography, tennis. *Address:* Alor Setar, Kedah, Malaysia.

KEDDAFI, Col. Mu'ammar al- (*see* Gaddafi, Col. Mu'ammar al-).

KEDROV, Bonifatiy Mikhailovich; Soviet philosopher and chemist; b. 10 Dec. 1903, Yaroslavl; s. of Mikhail Sergeyevich Kedrov and Olga Avgustovna Didrikil (Kedrova); m. 1st Tatyana Nikolayevna Chenzova 1922 (marriage ended 1955), 2nd Erika-Marianna Yakovlevna Chernavskaya 1957; one s. two d.; ed. Moscow Univ. and Inst. of Red Professors; mem. CPSU 1918-; at Chem. Inst., U.S.S.R. Acad. of Sciences 1932-35; with Dept. of Science, Cen. Cttee. of CPSU 1935-37; at Scientific Inst. 1938-41; Soviet Army 1941-45; Inst. of Phil. 1945-49, 1957-62, Dir. 1973-74; Lecturer, Acad. of Social Sciences, Cen. Cttee. of CPSU 1946-58, Prof. of Dialectical Materialism 1971-; Advisory Editor Voprosy filosofiy 1947-, Editor-in-Chief 1947-49; Inst. of History of Science and Tech., U.S.S.R. Acad. of Sciences 1966; mem. U.S.S.R. Acad of Sciences 1966-, Int. Acad. History of Sciences 1965-, Serbian Acad. of Sciences and Arts 1965-, Bulgarian Acad. of Sciences 1972-, Hungarian Acad. of Sciences 1972-, Leopoldina Acad. (G.D.R.) 1972-; Order of Lenin (1973, 1975), of October Revolution 1971, of Red Star 1967, of Red Banner for Work 1963, Sign of Honour. *Publications include:* The Unity of Dialectics, Logic and the Theory of Knowledge 1963, Engels on Chemistry 1971, Lenin and the Dialectics of Nature in the 20th Century 1971, How to Study V. I. Lenin's book "Materialism and Empirio-criticism" 1972, Prognosis of Periodisation 1976. *Address:* Institute of History of Science and Technology, Staropansky 1/5, Moscow 103012, U.S.S.R.

KEEBLE, Sir (Herbert Ben) Curtis, K.C.M.G.; British diplomatist; b. 18 Sept. 1922, London; s. of Herbert and Gertrude Keeble; m. Margaret Fraser 1947; three d.; ed. Clacton County High School, London Univ.; served Royal Irish Fusiliers 1942-47; entered Foreign Service 1947; served in Batavia (now Jakarta, Indonesia) 1947-49; Foreign Office 1949-51, 1958-63; Berlin 1951-54; Washington 1954-58; Counsellor and Head of European Econ. Orgs. Dept. 1963-65; Counsellor (Commercial), Berne 1965-68; Minister, Canberra 1968-71; Asst. Under-Sec. of State, FCO 1971-74; Amb. to G.D.R. 1974-76; Deputy Under-Sec. of State, FCO 1976-78; Amb. to U.S.S.R. 1978-. *Leisure interests:* sailing, skiing. *Address:* British Embassy, Nab. Maurice Thorez 14, Moscow, U.S.S.R. (Office); Dormers, St. Leonards Road, Thames Ditton, Surrey, England (Home). *Telephone:* 01-398 6418 (Home).

KEEHN, Grant; American investment banker; b. 11 Oct. 1900, Kenilworth, Ill.; s. of George Washington and Jeannette Sophronia (Shipman) Keehn; m. 1st Marjorie Elliott Burchard 1923 (died 1961), one s. two d.; m. 2nd Veronika M. Rona 1962, two d.; ed. Hamilton Coll., Clinton, N.Y. and Harvard Graduate School of Business Administration; with Goldman Sachs & Co. 1923-31, partner 1931; Vice-Pres. Kelsey-Hayes Wheel Corpn. 1932-33; officer and Dir. Equity Corpn. and assoc. cos. 1933-38; partner Grant Keehn & Co. 1938-41; served U.S. Army, Maj. to Col. 1941-45; Vice-Pres. First Nat. Bank of N.Y. 1945-50, Exec. Vice-Pres. 1950-55, Dir. 1951-55; Exec. Vice-Pres. First Nat. City Bank, New York, 1955-58; Senior Vice-Pres., Dir. Equitable Life Assurance Soc. of U.S. 1958-64, Pres. and Dir. 1964-67, Vice-Chair. of Board, Dir. 1967-69, Chair. Finance Comm. and Dir. 1965-71, Financial Consultant and Dir. 1969-71; Limited Partner, Goldman, Sachs & Co. 1971-; Dir. of several other companies; mem. N.Y. State Comptroller's Advisory Comm., N.Y. State Common Retirement Fund; Trustee, Kirkland Coll., Hamilton Coll., New York Public Library. *Address:* Goldman, Sachs & Co., 55 Broad Street, New York, N.Y. 10004 (Office); 45 Sutton Place South, New York, N.Y. 10022, U.S.A. (Home).

KEELER, William Wayne; American petroleum executive; b. 5 April 1908, Dalhart, Texas; m. Ruby Hamilton; three s.; ed. Bartlesville High School and Univ. of Kansas; Joined Phillips Petroleum Co. while at Univ. 1928, employed at refineries at Kansas City, Odessa and Borger as chemist, process engineer, night supt., and Chief Process Engineer 1928-41; Technical Asst. to Vice-Pres. of Refining Dept. 1941-45; Man of Refining Dept. 1945-47, Vice-Pres. of Refining Dept. 1947-51; Vice-Pres., Exec. Dept. 1951-54, Dir. 1951-; mem. Exec. Cttee. 1954-56; Exec. Vice-Pres. 1956-62, Chair. Exec. Cttee. 1962-67, Pres. 1967; Chair. and Chief Exec. Officer, Phillips Petroleum Co. 1968-73; Dir. of Refining, Petroleum

Admin. for Defense, Wash. D.C. 1952-53; Chair. Mil. Petroleum Advisory Board 1954-62; Chair. U.S. Del to Inter-American Indian Conf., Quito, Ecuador 1964; mem. Nat. Advisory Cttee. on War on Poverty Program 1965, President's Cttee. on Econ. Opportunity 1967; official of numerous business and civic orgs. *Address:* 1118 South Dewey Avenue, Bartlesville, Okla. 74003, U.S.A.

KEEN, Sir Bernard A., Kt., F.R.S., D.SC.; British physicist and agriculturalist; b. 5 Sept. 1890, London; s. of Charles Bernard Keen and Sarah Jane Bagley; m. Elsie Isabel Cowley 1915 (died 1955); two s.; ed. Univ. Coll., London; Andrews Scholar 1908; Trouton Research Scholar 1911; Carey Foster Research Prizeman 1912; Soil Physicist, Rothamsted Experimental Station 1913; served (Gallipoli and Palestine) First World War 1914-17; Research Dept. Woolwich Arsenal 1918; Soil Physicist, Rothamsted 1919; Dir. Imperial Inst. of Agricultural Research, India 1930-31; Asst. Dir. and Head Soil Physics Dept., Rothamsted Experimental Station 1923-47; Scientifc Adviser Middle East Supply Centre, Cairo 1943-45; Adviser on rural devt., Palestine 1946; Chair. U.K. Govt. Mission to W. Africa 1946; Adviser on agricultural policy in E. Africa 1947; Dir. East African Agriculture and Forestry Research Org. 1947-55; Dir. of Research, Baird and Tatlock (London) Ltd. 1956-63; Pres. Royal Meteorological Soc. 1938, 1939; Cantor Lecturer, Royal Soc. of Arts 1942; Fellow, Univ. Coll., London 1924. *Publications:* The Physical Properties of the Soil 1931, The Agricultural Development of the Middle East 1946. *Address:* 2 Crosbie Court, Troon, Ayrshire, KA10 6ES, Scotland. *Telephone:* Troon 312067.

KEENAN, Joseph D.; American trade unionist; b. 5 Nov. 1896, Chicago, Ill.; s. of Edward and Minnie Keenan; m. 1st Myrtle Feitsch 1932, 2nd Jeffie Hennessey 1963; two s. Rep. of American Fed. of Labor on Nat. Defense Council 1940; Assoc. Dir. War Production Board; Labor Adviser to Gen. Lucius D. Clay 1945; Labor Adviser, Nat. Production Administration and Defense Production Authority 1950-53, Office of Defense Mobilisation 1953-58; Int. Sec., Int. Brotherhood of Electrical Workers 1954-76; Special Asst. to Dir. for Labor, Consultant to Office of Emergency Planning; Vice-Pres. and mem. Exec. Council A.F.L.-C.I.O. 1955-76; mem. Pres. Advisory Council on Labor Management Policy; Pres. Union Label Freedom; Medal of Freedom, Award of Merit. *Leisure interest:* golf. *Address:* 2727 29th Street, N.W., Washington, D.C. 20008, U.S.A.

KEENAN, Patrick John, C.A., B.COMM., A.C.I.S.; Canadian business executive; b. 7 Jan. 1932, Montreal; s. of Thomas P. Keenan and Catherine S. Collins; m. Barbara G. Fraser 1959; one s. three d.; ed. McGill Univ.; Sec. Treas. Iroquois Glass Ltd. 1959-62; Man. of Finance, Charles Pifizer Ltd. 1963-64; Controller Patiño N.V. 1964-65, Treas. 1966-67, Vice-Pres. (Finance) 1968-70, Vice-Pres. and Dir. 1971-, Pres., Chief Exec. Dec. 1974-; Chief Exec. Amalgamated Metal Corpn. Ltd. until 1975; Dir., Pres., Chief Exec. Patiño Man. Services Ltd., Patiño Int., N.V., Patiño Holdings, N.V.; Dir. Foodex Inc., Hatleigh Corpn., Lada Cars of Canada Inc., Cie. Française D'Entreprises Minières, Métallurgiques et D'Investissements, Patiño Mines (Quebec) Ltd., Lemoine Mines Ltd. *Leisure interests:* skiing, jogging, sheep farming. *Address:* No. 16 Whitney Avenue, Toronto M4W 2A8, Ontario, Canada.

KEENER, Jefferson Ward, A.B., M.A.; American business executive; b. 6 Aug. 1908, Portersville, Ala.; s. of Joseph Ward and Mary Boston Keener; m. Marian Feudner 1931 (died 1972); three s.; ed. Birmingham Southern Coll., Ohio State Univ. and Univ. of Chicago; Instructor, later Asst. Prof. of Econs. Ohio Wesleyan Univ. 1929-37, 1938-39; Dir. of business research, B. F. Goodrich Co. 1939-44, asst. to financial Vice-Pres., asst. to Pres. 1944-46, Vice-Pres. 1946-56, Exec. Vice-Pres. 1956, Pres. and Dir. 1957, Pres., Chief Exec. Officer and Dir. 1958, Chair. of Board 1958-72, Chair. Exec. Cttee. 1972-73, Dir. 1973-74; fmr. Dir. other Goodrich subsidiaries and assoc. companies, B. F. Goodrich Liberia Inc., B. F. Goodrich Canada, B. F. Goodrich Australia Ltd.; Dir. Campbell Soup Co., Ohio Bell Telephone Co.; served Office of Price admin. and War Production Board in Second World War; also other public service posts; mem. advisory cttee. on civilian personnel, U.S. Army 1954-56; mem. Business Council; Dir. Highway Users Fed. for Safety and Mobility; Hon. LL.D. (Birmingham Southern Coll., Ohio Wesleyan Univ.), Hon. D.C.S. (Millikin Univ.); U.S. Army Medal for Exceptional Civilian Achievement 1956. *Publication:* Cutting the Cost of Bank Loans 1930. *Leisure interests:* golf, fishing, bridge. *Address:* 265 Hampshire Road, Akron, Ohio 44313, U.S.A.

KEENLEYSIDE, Hugh Llewellyn, C.C., PH.D., LL.D., D.SC.; Canadian diplomatist and administrator; b. 7 July 1898, Toronto; s. of Ellis William and Margaret Louise (Irvine) Keenleyside; m. Katherine Hall Pillsbury 1924; one s. three d.; ed. Univ. of British Columbia, Vancouver and Clark Univ., Worcester, Mass., U.S.A.; served with C.F.A. First World War; Lecturer in History, Univ. of B.C. 1925-27; entered Dept. of External Affairs 1928; opened First Canadian Mission in Japan 1929, promoted to Counsellor 1940; Asst. Under-Sec. of State for External Affairs 1941; Canadian Amb. to Mexico 1944-47; Deputy Minister of Mines and Resources 1947-50; Dir.-Gen. UN Technical Assistance Admin. 1950-59; UN Under-Sec. for Public Admin. 1959; Chair. British Columbia Power Comm. and Adviser to Govt. of British Columbia on Resource Devt. Policies 1959-62; Chair. British Columbia Hydro and Power Authority 1962-69; mem. numerous wartime cttees., including Canada-U.S. Joint Board on Defence 1940-45 and War Technical and Scientific Devt. Cttee. 1941-45; Chancellor, Notre Dame Univ. 1969-, Chair. Board of Govs. 1972-75; Hon. Chair. Canadian Nat. Cttee. on UN Conf. on Human Settlements and Assoc. Commr.-Gen. of Habitat Conf.; mem. numerous govt. comms. of investigation 1972-74; Dir. and one of founders of Arctic Inst. of N. America; Dir. various companies; Officer or mem. numerous welfare, educational and int. orgs.; hon. degrees from numerous Canadian and U.S.A. Univs.; Haldane Medal of Royal Inst. of Public Admin. 1954, Vanier Medal of Inst. of Public Admin. of Canada 1962; Companion of Canada 1969. *Leisure interests:* gourmet cooking, reading, poker. *Publications:* Canada and the United States, History of Japanese Education (with A. F. Thomas), International Aid. *Address:* Office and Home: 3470 Mayfair Drive, Victoria, B.C. V8P 1PG, Canada. *Telephone:* 592-9331.

KEETON, George Williams, M.A., LL.D., F.B.A.; British lawyer and educationist; b. 22 May 1902, Sheffield; s. of John William and Mary Emma Keeton; m. 1st Gladys Edith Calthorpe 1924, 2nd Kathleen Marian Willard 1946; two s.; ed. Gonville and Caius Coll. Cambridge and Gray's Inn, London; Reader in Law and Politics, Hong Kong Univ. 1924-27; Senior Law Lecturer, Manchester Univ. 1928-31; Reader in Law, Univ. Coll. London 1931-37, Prof. English Law 1937-, Dean Law Faculty 1939-54, Vice-Provost 1966-69; Pres. and Treasurer London Inst. of World Affairs 1938-; Dean of Faculty of Laws, London Univ. 1942-46; Prof. of Law, Brunel Univ. 1969-77; Editor, Anglo-American Law Review 1970-; Distinguished Visiting Prof., Univ. of Miami 1971-73; Leverhulme Research Fellow 1971-73; mem. Bd. of Dirs., American Judicature Soc. 1974-. *Publications:* The Development of Extra-territoriality in China 1928, The Law of Trusts 1934, National Sovereignty and International Order 1939, Russia and Her Western Neighbours 1942, China, the Far East and the Future 1943, Making International Law Work (with Dr. Schwarzenberger) 1946, Extra-territoriality in International and Comparative Law 1949, The Passing of Parliament 1952, Social Change in the Law of Trusts 1958, Trial for Treason 1959, Trial by Tribunal 1960, Guilty but Insane 1961, The Modern Law of Charities 1962, Lord Chancellor Jeffreys and the Stuart Cause 1965, The Norman Conquest and the Common Law 1966, Shakespeare's Legal and Political Background 1967, Equity 1969, Government in Action 1970, The Football Revolution 1972, English Law: The Judicial Contribution 1974, Trusts in the Commonwealth 1976, Keeping the Peace 1976, Harvey the Hasty 1978. *Address:* Picts Close, Picts Lane, Princes Risborough, Bucks., England. *Telephone:* Princes Risborough 5094.

KEILIS-BOROK, Vladimir Isaakovich, PH.D., D.SC.; Soviet geophysicist and applied mathematician; b. 31 July 1921, Moscow; s. of Isaak Moiseyevich and Kseniya Ruvimovna; m. L. N. Malinovskaya 1955; one d.; ed. S. Ordzhonikidze Inst. of Geological Prospecting, Inst. of Physics of the Earth; Chair. Div. of Methods of Interpretation, O. Schmidt Inst. of Earth Physics, U.S.S.R. Acad. of Sciences 1960, Chair. Dept. of Computational Geophysics 1970-, Chair. Int. Cttee. on Mathematical Geophysics 1975-; Chair. Comm. on Computational Geophysics, Soviet Co-ordinated Cttee. on Geophysics; mem. editorial board of several int. journals; Foreign Assoc. U.S. Nat. Acad. of Sciences; Foreign Hon. mem. American Acad. of Arts and Sciences. *Publications:* Study of Earthquake Mechanism 1957, Interferentional Surface Waves 1960, Seismic Love Waves 1965; Ed. Computational Seismology series, Vols. 1-8 1966, (Selection from Vols. 1-5 published in English 1972), Theoretical and Computational Geophysics series, vols. 1, 2, 1974. *Leisure interests:* mountaineering, literature, history of art. *Address:* Soviet Co-ordinated Committee on Geophysics, Molodezhnaya ul. 3, 117296 Moscow; O.Y. Schmidt Institute of Earth Physics, B. Gruzinskaja ul. 10, 123810 Moscow, U.S.S.R. *Telephone:* 252-07-26.

KEITH, Sir Kenneth Alexander, Kt.; British banker and industrialist; b. 30 Aug. 1916; s. of Edward Charles Keith; m. 1st Ariel Olivia Winifred Baird 1946 (divorced 1958), one s. one d.; m. 2nd Mrs. Nancy Hayward 1962 (divorced 1972); m. 3rd Mrs. Marie Hanbury 1973; ed. Rugby and Dresden; trained as Chartered

Accountant, London 1934-39; Army Service 1939-45; Asst. to Dir.-Gen. Political Intelligence Dept., Foreign Office 1945-46; Asst. to Managing Dir. Philip Hill & Partners, London 1946-48, Dir. 1947; Dir. Philip Hill Investment Trust 1949, Managing Dir. 1951; Managing Dir. Philip Hill, Higginson & Co. Ltd. 1951-59, Philip Hill, Higginson, Erlangers Ltd. 1959-62, Chair. 1962-65; Deputy Chair. and Chief Exec. Hill Samuel & Co. 1965-70, Group Chair. 1970-; Chair. Rolls-Royce 1972-; Vice-Chair. Beecham Group Ltd. 1975-; Dir. Times Newspapers Ltd., etc.; mem. Nat. Econ. Devt. Council 1964-71; Chair. Econ. Planning Council for East Anglia 1965-70; Gov. Nat. Inst. of Econ. and Social Research; Council mem. Manchester Business School; mem. Board Standard Telephone and Cables Oct. 1977-. *Leisure interests:* shooting, farming. *Address:* 80 Eaton Square, London, SW1W 9AP; The Wicken House, Castle Acre, Norfolk, England. *Telephone:* 01-730 4000 (London); Castle Acre 225.

KEKKONEN, Urho Kaleva; Finnish politician; b. 3 Sept. 1900; ed. Univ. of Helsinki; Jurist, Fed. of Rural Communities 1927-32; Admin. Sec. Ministry of Agriculture 1933-36; M.P. (Agrarian) 1936-56; Minister of Justice 1936-37, 1944-46; Minister of the Interior 1937-39; Dir. Central Bureau of Evacuees 1940-43, Office of Rationalization 1943-46; Speaker of the Diet 1948-50; mem. Board of Managers Bank of Finland 1946-56; Prime Minister and Minister of the Interior 1950-51; Prime Minister 1951-52, 1953, 1954-56; Minister of Foreign Affairs 1952-53, 1954; Pres. of Finland 1956-; LL.D. (Helsinki); Dr. h.c. Univs. of Moscow, Aix-en-Provence, Waterloo (Ontario), Warsaw, Delhi, Budapest and Prague; Finnish decorations: Grand Cross with Chain, Order of the White Rose, Grand Cross of the Cross of Liberty, Grand Cross Order of the Lion, Grand Cross of the Holy Lamb, Olympic Cross (First Class) of Merit, Gold Cross of Merit of Finnish Sports; numerous foreign decorations. *Address:* Presidential Palace, Helsinki, Finland.

KELANI, Haissam; Syrian diplomatist; b. 6 Aug. 1926, Hamah; s. of Amine Kelani and Saba Azem; m. Daad Tayeh 1951; one s. one d.; ed. Military Coll., Air Gen. Staff Coll., Paris and High Military Air Acad., Paris; General Pilot 1961-62; Syrian Amb. to Algeria 1962-63 and Morocco 1965-67; Sec.-Gen. Ministry of Foreign Affairs 1967-69; Amb. to the German Democratic Repub. 1969-72; Perm. Rep. to UN 1972-76; Dir. Int. Orgs., Ministry Foreign Affairs 1976; mem. Expert, Human Rights Cttee. 1977-(80); Hon. Ph.D. (Leipzig) 1973; twelve medals. *Publications:* 11 books; many articles in Arab reviews. *Address:* c/o Ministry of Foreign Affairs, Damascus, Syria. *Telephone:* 331200.

KELLAS, Arthur Roy Handasyde, C.M.G., M.A.; British diplomatist; b. 6 May 1915, Aberdeen; s. of Henry Kellas and Mary Brown; m. Katherine B. Le Rougetel 1952; two s. one d.; ed. Aberdeen Grammar School, Aberdeen Univ., Balliol Coll., Oxford and Ecole des Sciences Politiques, Paris; joined diplomatic service 1939; served in army 1939-44; Third Sec., Teheran 1944-47; First Sec., Helsinki 1949-51, Cairo 1952-53, Baghdad 1954-58; Counsellor, Teheran 1958-62; Imperial Defence Coll. 1963; Counsellor and Consul-Gen., Tel-Aviv 1964-66; Amb. to Nepal 1966-70; Amb. to People's Democratic Repub. of Yemen (Aden) 1970-72; High Commr. to Tanzania 1972-75; Pres. Britain-Nepal Soc. 1975-. *Leisure interests:* walking, reading. *Address:* Laurel Villa, Culworth, nr. Banbury, OX17 2AZ, England. *Telephone:* Sulgrave 558.

KELLER, George M.; American chemical engineer and business executive; b. Kansas City, Missouri; ed. M.I.T.; served U.S. Air Force, World War II; joined Engineering Dept., Standard Oil Co. of Calif. 1948, Asst. Vice-Pres. of Foreign Operations 1967, Asst. to Pres. 1968, Vice-Pres. 1969-, Dir. 1970-, Vice-Chair. Feb. 1974-. *Address:* Standard Oil Co. of California, 225 Bush Street, San Francisco, Calif. 94104, U.S.A.

KELLER, Hans Gustav, PH.D., LL.D.; Swiss librarian and historian; b. 12 Nov. 1902, Thun; s. of late Gustav Keller and the late Lina Keller-Kehr; m. Margaretha Meyer 1937; two s. one d.; ed. Berne, Vienna, Clermont-Ferrand, Heidelberg, Berlin and Basel Univs.; Librarian Zürich Municipal Museum of Applied Art 1934-37, Swiss Nat. Library, Berne 1937-44; Dir. Cen. Fed. Library, Berne 1944-67; Lecturer in Modern History, Univ. of Berne 1948-63, Prof. 1963. *Publications:* Die politischen Verlagsanstalten und Druckereien in der Schweiz 1840-1848 1935, Das "Junge Europa" 1834-1836 1938, Das historische Museum im Schloss Thun 1887-1937 1938, Der Brudermord im Hause Kiburg 1939, Das Leben und Leiden Jesu Christi 1940, "La Chartreuse" 1941, Minister Stapfer und die Künstlergesellschaft in Bern 1945, Einigen 1946, Vom Staatsgedanken und von der Sendung der Schweiz 1947, Thun 1949, Legislative und Exekutive in den Vereinigten Staaten von Amerika 1951, Hutten und Zwingli 1952, Chr. von Graffenried und die Gründung von Neu-Bern in Nord-Carolina 1953, Die Wurzeln der amerikanischen Demokratie 1958, Die Quellen der amerikanischen Verfassung 1958, Unitarismus und Föderalismus im Werk der amerikanischen Verfassunggebenden Versammlung 1958, Der "Virginia-Plan" 1960, Die Idee der Unabhängigkeit 1962, Pitt's "Provisional Act" 1962, Die Metaphysik Montesquieus 1965, Montesquieu's "Esprit des lois" 1969, Die amerikanische Verfassunggebende Versammlung 1971. *Leisure interests:* walking, travelling. *Address:* Zumbachstr. 30, 3028 Spiegel b. Bern, Switzerland. *Telephone:* 031-53-45-03.

KELLER, René Jacques, D.IUR.; Swiss diplomatist; b. 19 May 1914, Paris, France; s. of Jacques Keller and Maria (née Geiser); m. Marion Werder 1942; one s. two d.; ed. Trinity Coll., Cambridge and Univ. of Geneva; Head of News Dept., Ministry of Foriegn Affairs, Berne 1954-56; First Counsellor, Swiss Embassy, Paris 1957-60; Amb. to Ghana, Guinea, Liberia, Mali and Togo (with residence in Accra) 1960-62; Amb. to Turkey 1962-65; Head of Perm. Mission to UN Office and Specialized Agencies in Geneva 1966-68; Amb. to U.K. 1968-71; Head of Dept. for Int. Orgs. Ministry of Foreign Affairs, Berne 1971-; Amb. to Austria 1976-. *Leisure interests:* golf, skiing. *Address:* Swiss Embassy, Prinz Eugenstr. 7-9, 1030 Vienna, Austria. *Telephone:* 725111/15.

KELLETT, Sir Brian Smith, Kt., M.A.; British industrialist; b. 8 May 1922, Romiley, Cheshire; s. of late Harold Lamb Kellett and Amy Elizabeth (née Smith); m. Janet Lesly Street 1947; three d.; ed. Manchester Grammar School and Trinity Coll., Cambridge; Experimental Officer, Admiralty 1942-46; Asst. Principal, Ministry of Transport 1946-48; with Sir Robert Watson-Watt and Partners 1948-49; with Pilkington Brothers Ltd. 1949-55; with Tube Investments Ltd. 1955-; Dir. 1966-, Man. Dir. 1968-, Chair. 1976-; Chair. British Aluminium Co. 1972-; Dir. Unigate 1974-; Vice-Pres. Eng. Employers' Fed. 1976-. *Address:* Bridgewater House, St. James's, London, SW1A 1DG, England. *Telephone:* 01-839 9090 (Office).

KELLEY, Clarence M., B.A., LL.B.; American fmr. government official; b. 24 Oct. 1911, Kansas City, Mo.; s. of Clarence Bond Kelley and Minnie (Brown) Kelley; m. 1st Ruby D. Pickett 1937 (deceased), one s. one d.; m. 2nd Shirley Ann Dyckes 1976; ed. Univ. of Kansas, Kansas City; admitted to Mo. Bar 1940; with Fed. Bureau of Investigation 1940-61; Special Agent in Charge, FBI Birmingham Office 1957-60, FBI Memphis Office 1960-61; Chief of Police, Kansas City, Mo. 1961-73; Dir. FBI 1973-78; mem. Presidential Advisory Cttee. 1971, Nat. Advisory Comm. on Criminal Justice, Standards and Goals, FBI Nat. Acad. Review Cttee. 1972-73; mem. Exec. Cttee. Int. Asscn. of Chiefs of Police; Hon. LL.D. (Baker Univ., Kansas, Culver-Stockton Coll., Mo.), J. Edgar Hoover Gold Medal for Outstanding Job Service 1970. *Address:* c/o Federal Bureau of Investigation, 9th Street; Pennsylvania Avenue, N.W., Washington, D.C. 20535, U.S.A.

KELLOU, Mohamed; Algerian lawyer and diplomatist; b. 27 March 1931, Mansoura; s. of Arezki Kellou and Zehoua de Kellou; m. Anyssa Abdelkader 1965; three d.; ed. Univs. of Algiers and Montpellier; Lawyer, Algiers; fmr. Vice-Pres. Union Générale des Etudiants Musulmans Algériens (U.G.E.M.A.) (in charge of Foreign Affairs); Front de Libération Nationale (F.L.N.) Rep. in U.K. 1957-61; Chief of Provisional Govt. of Algeria Diplomatic Mission to Pakistan 1961-62; Dir. of African, Asian and S. American Affairs, Ministry of Foreign Affairs, Repub. of Algeria 1962-63; Amb. to U.K. 1963-64, to Czechoslovakia 1964-70, to Argentina 1970-75, to People's Repub. of China 1975-77, also accred. to Mongolia; mem. People's Nat. Assembly for Setif 1977-; Chair. Foreign Affairs Cttee. March 1977-. *Address:* L'Assemblée Populaire Nationale, 40 Boulevard des Martyrs, Algiers, Algeria.

KELLY, Donald P.; American business executive; b. 24 Feb. 1922, Chicago; m. Byrd M. Sullivan; two s. one d.; ed. De Paul, Loyola and Harvard Univs.; Man. Data Processing, Swift & Co. 1953, Asst. Controller 1965, Controller 1967, Vice-Pres. Corp. Devt. 1968, Financial Vice-Pres. and Dir. 1970-; Financial Vice-Pres. and Dir. Esmark April-Oct. 1973, Pres., Chief Operating Officer 1973-77, Pres. and Chief Exec. Officer 1977-; Dir. G.D. Searle and Co., Harris Bankcorpn. Inc., Inland Steel Co.; mem. Financial Execs. Inst., Data Processing Management Assn. *Address:* Esmark Inc., 55 East Monroe Street, Chicago, Ill. 60603, U.S.A.

KELLY, Gene Curran; American dancer and actor; b. 23 Aug. 1912; ed. Univ. of Pittsburgh; has appeared in Leave It to Me 1938, Time of Your Life 1940, One for the Money 1939, Pal Joey 1941; staged: Billy Rose's Diamond Horseshoe 1940, Best Foot Forward 1941; Dir. of dances for films: Anchors Aweigh 1944, The Pirate

1948, Living in a Big Way 1947; appeared in films: Me and My Girl 1942, The Pirate 1948, The Three Musketeers 1950, An American in Paris 1950, The Devil Makes Three 1952, Invitation to the Dance 1953, Brigadoon 1954, Les Girls 1957, Inherit the Wind 1960, Gigi 1961, The Young Girls of Rochefort 1967, 1940, Carats 1973; Co-Dir. On the Town 1949, Singin' in the Rain 1951, It's Always Fair Weather 1955; Dir. Invitation to the Dance 1953, What a Way to Go 1964, A Guide for the Married Man 1966, Hello Dolly! 1968, The Cheyenne Social Club 1970; Producer, Dir. The Happy Road (France) 1956, Flower Drum Song 1958; Dir. and appeared in That's Entertainment Part II 1976. *Publications:* Take Me Out to the Ball Game 1948. *Address:* 725 N. Rodeo Drive, Beverly Hills, Calif., U.S.A.

KELLY, Rev. Canon John Norman Davidson, M.A., D.D.; British scholar, lecturer and university official; b. 13 April 1909, Bridge of Allan, Scotland; s. of John Davidson and Ann (Barnes) Kelly; ed. Univs. of Glasgow and Oxford; Chaplain and Tutor, St. Edmund Hall, Oxford 1935-37, Vice-Principal, Fellow and Trustee 1937-51, Principal 1951-79; Oxford Univ. Lecturer in Patristic Studies 1948-76, Pro-Vice-Chancellor 1964-66, 1972-79; Birkbeck Lecturer, Cambridge 1973; during World War II did part-time work for Chatham House; Canon at Chichester Cathedral 1948-; Hon. Fellow Queen's Coll., Oxford 1963; F.B.A. 1[illegible]; Hon. D.D. (Glasgow) 1958, (Wales) 1971. *Publications:* Early Christian Creeds 1950, Rufinus: A Commentary on the Apostles' Creed 1955, Early Christian Doctrines 1958, The Pastoral Epistles 1963, The Athanasian Creed 1964, The Epistles of Peter and Jude 1969, Aspects of the Passion 1970, Jerome 1975. *Leisure interests:* the cinema, travel, sightseeing. *Address:* 7 Crick Road, Oxford OX2 6QJ, England. *Telephone:* 0865-512987.

KELLY, Sir Theo (William Theodore), Kt., O.B.E., F.R.S.A., F.A.I.M.; Australian business executive; b. 27 June 1907, Sydney, N.S.W.; s. of William Thomas Kelly and Lily Elizabeth Kelly (née Neely); m. Nancy Margaret Williams 1944; two s. two d.; ed. Sydney; served World War II. Wing Commdr. R.A.A.F. 1942-44, Chair. Canteen Services Board 1946-59; Man. Dir. Woolworths Ltd. Australia 1945-70, Chair. 1963-; Chair., and fmrly. Man. Dir. Woolworths (N.Z.) Ltd., Woolworths (Properties) Ltd.; mem. Board Reserve Bank of Australia 1961-75; Deputy Chair., Dir. Australian Mutual Life Assurance Co.; Chair. Computor Sciences of Australia Ltd.; Dir. A.M.P. Soc. 1967-, A.N.T.A. 1959-; mem. Royal Soc. of Arts; Life Gov., Royal Life Saving Soc. *Leisure interest:* boating. *Address:* Woolworths Ltd., 534 George Street, P.O. Box 4068, Sydney 2000 (Office); 8/73 Yarranabbe Road, Darling Point, N.S.W. 2027, Australia (Home).

KELTSCH, Erhard; German business executive; b. 1 April 1912, Hamburg; ed. Technische Universität, Braunschweig; Overseer, Public Works of the City of Hildesheim 1937-45; Preussische Elektrizitäts-AG, Hanover, Authorized Agent 1945-50, mem. of the Board 1970-, Chair. of the Board 1971-77; mem. of the Board, Nordwestdeutsche Kraftwerke AG, Hamburg 1950-, and Veba AG, Düsseldorf 1971-.

KEMAL, Yashar; Turkish writer and journalist; b. 1923, Adana; m. Thilda Serrero 1952; one s.; self-educated. *Publications:* (in English) Memed, My Hawk 1961, The Wind from the Plain 1963, Anatolian Tales 1968, They Burn the Thistles 1973, Iron Earth, Copper Sky 1974, The Legend of Ararat 1975, The Legend of the Thousand Bulls 1976, The Undying Grass 1977, novels, short stories, plays and essays in Turkish. *Leisure interest:* folklore. *Address:* P.K. 14, Basinköy, Istanbul, Turkey. *Telephone:* 790887.

KEMBALL-COOK, Denis Basil; American oil executive; b. 1910, London; s. of Sir Basil and Lady Kemball-Cook; m. Mary Virginia Ricks 1935; two s. one d.; ed. Shrewsbury School and Balliol Coll., Oxford; Dir. Compañia Shell de Venezuela, Caracas 1951-57; Dir. and Vice-Pres. Shell Caribbean Petroleum and Asiatic Petroleum Corpn., New York 1957-58; Exec. Vice-Pres. and Dir. Shell Oil Co., New York 1958, mem. Exec. Cttee. 1962, Chief Operating Officer 1968; Pres. and Chief Exec. Officer, Shell Oil Co. 1970-71; Dir. American Petroleum Inst.; Fellow R.S.A.; Trustee, Skidmore Coll. 1969. *Leisure interest:* yachting. *Address:* 58 Andrews Drive, Darien, Conn. 06820, U.S.A.

KEMBLE, Edwin Crawford, D.S.C., PH.D.; American physicist; b. 28 Jan. 1889, Delaware, Ohio; s. of Rev. Dunton and Margaret Day Kemble; m. Harriet Tindle 1920; one s. one d.; ed. Ohio Wesleyan Univ., Case School of Applied Science, and Harvard Univ.; Asst. Instructor in Physics, Carnegie Inst. of Tech. 1911-13; Engineering Physicist, Curtiss Motor Corpn. 1917-18; Instructor in Physics, Williams Coll. 1919; mem. Physics Faculty, Harvard Univ., 1919-, Prof. 1930-57, Emer. 1957-, Chair. Dept. of Physics 1940-45; Chair. Cttee. on Molecular Spectra in Gases, Nat. Research Council 1923-27, mem. Exec. Cttee. Div. of Physical Sciences 1938-40; Guggenheim Fellow 1927; mem. Nat. Acad. of Sciences, Chair. Physics section 1945-48; Hon. Sc.D. (Case School of Applied Science, later all as part of Case Western Reserve Univ.) 1931; Hon. Ed.D. (Rhode Island Coll.) 1957; Oersted Medal, American Assn. of Physics Teachers 1969. *Publications:* Report on Molecular Spectra in Gases (with others) 1926, Fundamental Principles of Quantum Mechanics 1937, Physical Science, Its Structure and Development, Vol. I 1967; research on band spectra, fundamentals of quantum theory, philosophy of science. *Address:* 8 Ash Street Place, Cambridge, Mass. 02138, U.S.A.

KEMENY, John G., PH.D.; American mathematician, philosopher and teacher; b. 31 May 1926, Budapest, Hungary; s. of Tibor and Lucy (Fried) Kemeny; m. Jean Alexander 1950; one d.; ed. George Washington High School, New York City, and Princeton Univ.; arrived in U.S.A. 1940; U.S. Army Service in theoretical div. of Manhattan Project, Los Alamos, N.M. 1945; Research Asst. to Prof. Einstein 1948; Fine Instructor in Mathematics, Princeton 1949-51, Asst. Prof. Dept. of Philosophy 1951-52; Prof. of Mathematics and Philosophy Dartmouth Coll. 1953, Chair of Dept. 1954-66, Albert Bradley Third Century Prof. to encourage innovation in teaching 1969-72, Adjunct Prof. of Maths. 1972-; Pres. of Dartmouth Coll. March 1970-; Chair. U.S. Comm. on Mathematical Instruction 1957-60; mem. Board of Govs. Mathematical Assn. of America 1960-63; co-inventor of computer language BASIC and co-designer of Dartmouth Time-Sharing System; Fellow, American Acad. of Arts and Sciences; mem. American Mathematical Soc., American Philosophical Assn.; Vice-Chair. Nat. Science Foundation Advisory Cttee. on Computing 1968-69; Consultant to Research Council of Greater Cleveland 1959-70; Assoc. Editor of Journal of Mathematical Analysis and Applications 1959-70; mem. Nat. Research Council 1963-[illegible]; mem. Nat. Comm. on Libraries and Information Science 1971-73; Hon. D.Sc. (Middlebury Coll.) 1965, (Boston Coll.) 1973, (Penn.) 1975; Hon. LL.D. (Columbia) 1971, (Princeton) 1971, (N.H.) 1972, (Colby Coll.) 1976, Hon. Sc.D. (Bard College), Hon. LL.D. (Lafayette Coll.). *Publications:* Thirteen books ranging from mathematics and computing to philosophy of science and educ., including Man and The Computer 1972. *Address:* Dartmouth College, Hanover, N.H. 03755, U.S.A. *Telephone:* 603-646-2222.

KEMOULARIA, Claude de; French international administrator; b. 30 March 1922, Paris; m. Chantal Julia 1951; one d.; ed. Coll. Carnot, Fontainebleau, Faculté de Droit, Univ. de Paris and Ecole Libre des Sciences Politiques; early career with Ministry of Interior 1945, Office of Gov.-Gen. French Zone of Occupied Germany 1946-47, Ministry of Finance 1948; Parl. Sec. to Paul Reynaud 1948-56; Personal Asst. to Sec.-Gen. of UN, Dag Hammarskjöld 1957-61, in charge of World Refugee Year 1959-60; Dir. European Information Services of UN 1961; entered private business 1962; Dir. Forges de Chatillon-Commentry 1962-; Sr. Consultant to Administrator, UN Devt. Programme 1964-; Private Adviser to Prince Rainer of Monaco 1965-67; financial adviser for int. operations (Banque de Paris et des Pays-Bas); Chair. Soc. Néo-Calédonienne de Dévt. et Participations, Soc. Gabonaise de Participations; Pres. French UN Assn. *Address:* 41 boulevard du Commandant Charcot, Neuilly-sur-Seine, Seine, France; 7 rue de l'Athénée, Geneva, Switzerland.

KEMPARA, Eugenia, M.JUR.; Polish lawyer and politician; b. 1929, Księżyno, Białystok voivodship; ed. Warsaw Univ.; served in army legal service, later Col. 1946-75; Co-ordinator and fmr. Chair., Org. of Soldiers' Families; Chair. Gen. Council, Women's league July 1975-; Deputy Chair. Nat. Council of Polish Women until 1976, Chair. 1977-; mem. Gen. Council, Polish Lawyers' Assn.; mem. World Council of Democratic Women's Feds., Council of Int. Feds. of Women of Legal Professions; Alt. mem. Cen. Cttee. Polish United Workers' Party (PZPR) Dec. 1975-; Deputy to Seym 1976-; mem. State Council Dec. 1976-; Chevalier's Cross of Order of Polonia Restituta, Order of Banner of Labour (Second Class) 1978 and other decorations. *Address:* Kancelaria Rady Państwa PRL, ul. Wiejska 4/6/8, 00-489 Warsaw, Poland.

KEMPNÝ, Josef, C.SC.; Czechoslovak politician; b. 19 July 1920, Lazy-Orlová; ed. Technical Univ.; worker, foreman building technician in different firms 1939-48; Regional Man. Assn. of Building Works, Ostrava 1948-51; various managerial posts in building enterprises 1951-64; Chair. Municipal Nat. Cttee., Ostrava 1964-68; Sec. Cen. Cttee. CP Czechoslovakia 1968-69, 1970-; Deputy Prime Minister of Č.S.S.R. 1969-70; Prime Minister of the Czech Socialist Republic 1969-70; Chair. Bureau of Cen. Cttee., CP of Czechoslovakia for Directing Party Work in the Czech Lands 1970-71; mem. Secr. of Cen. Cttee., CP of Czechoslovakia 1968-69, 1970-, mem. Presidium 1969-; mem. Cen. Cttee. of CP of Czechoslovakia 1969-; mem. of Czech. Nat Council 1968-76, mem. Presidium 1971-76; Deputy to House of Nations, Fed. Assembly 1969-; mem.

Presidium of Fed. Assembly 1970-; Deputy Chair. Cen. Cttee. Nat. Front of Č.S.S.R. 1971-; Chair. Cen. Cttee. of Nat. Front of Czech Socialist Repub. 1971-; Sec. of Cen. Cttee. CP of Czechoslovakia; Chair. Nat. Econ. Comm. Cen. Cttee. CP of Czechoslovakia 1971–; Order of the Repub. 1970; Order of Bulgarian People's Republic (1st Class) 1971; Order of Victorious February 1973. *Address:* Central Committee of Communist Party of Czechoslovakia, Prague 1, nábř. Ludvíka Svobody 12, Czechoslovakia (Office).

KEMULA, Wiktor, DR. PHIL., DR. CHEM.; Polish university professor; b. 6 March 1902, Ismail, Russia; s. of Michal Kemula and Michalina Guzera; m. Maria Majchrowicz 1939; one s. one d.; ed. Univ. of Lwów; Asst. Univ. of Lwów 1923-32, Lecturer 1932-36, Extraordinary Prof. 1936-39, Prof. 1939-45; Prof. of Inorganic Chem., Univ. of Warsaw 1945-68, Dean of Faculty of Science 1947-50, Dir. Chemical Inst. of Faculty of Mathematics, Physics and Chem. 1952-72, then scientific worker; Head of Lab. of Physico-Chem. Analytical Methods in Inst. of Physical Chem. of Polish Acad. of Sciences 1952-72; Chief Editor Roczniki Chemii 1950-, Chemia Analityczna 1956-69; Pres. Polish Chemical Soc. 1955-60, 1972-74, Hon. Pres. 1976-; Vice-Rector, Univ. of Warsaw 1956-59; Pres. of Analytical Chem. Div. of IUPAC 1969-73, Past Pres. 1973-75; mem. Societas Scientarium Leopoldiensis 1936-, Societas Scientarium varsoviensis 1947- (Sec. of Section III 1948-51), Polish Acad. of Sciences 1956- (Chair. Cttee. of Analytical Chem.), New York Acad. of Sciences 1960-, Deutsche Akademie der Naturforscher Leopoldina 1960; Hon. mem. Soc. de Chimie Industrielle, Paris 1959, Czechoslovak Chem. Soc. 1966-, Polish Chemical Soc. 1970, Chem. Soc. of German Dem. Repub., Analytical Chem. Soc. of Japan 1972; decorations include J. Sniadecki Medal of the Polish Chemical Soc. for Scientific Achievements 1965; J. Hanuš Medal of Czechoslovak Chemical Soc. 1966; Medal of Liège Univ. 1967; Centenary Lectureship Medal of the Chem. Soc. (London) 1969; Golden Hon. Badge of Merit of the Cen. Tech. Org. (NOT) 1970; Medal Japanese Assn. of Analytical Chem. 1972; Medal of Univ. Libre de Bruxelles 1975; Medal of Bulgarian Acad. of Sciences 1975; Medal of G.D.R. Acad. of Sciences 1975; State Prize 1955, 1972; Officer's Cross of Order Polonia Restituta 1956; Banner of Labour (2nd Class) 1972, Medals of 10th and 30th Anniversary of People's Poland, and other awards. *Publications:* Numerous scientific works in photochemistry, chromato-polarography, polarography, and analytical chemistry. *Leisure interests:* music, photography. *Address:* Ul. Schillera 8, m. 7, 00-248 Warsaw, Poland. *Telephone:* 32-72-69 (Office); 31-44-03 (Home).

KENDALL, Donald M.; American business executive; b. 16 March 1921, Sequim, Wash.; s. of Carroll C. and Charlotte (McIntosh) Kendall; m. 1st Anne McDonnell Linkins 1945, 2nd Sigrid Ruedt von Collenberg 1965; four c.; ed. Western Kentucky State Coll; Air Corps, U.S. Naval Reserve 1942-47; Vice-Pres. Pepsi-Cola Co. 1952-57; Pres. Pepsi-Cola Int. 1957-63, Pepsi-Cola Co. 1963-65; Pres. and Chief Exec. Officer, PepsiCo Inc. 1965-71, Chair. and Chief Exec. Officer 1971-; Dir. Pan American Airways, Atlantic Richfield, Investors Diversified Services Mutual Fund Group; Chair. Exec. Cttee. U.S.-U.S.S.R. Trade and Econ. Council; mem., fmr. Chair., Nat. Center for Resource Recovery and Emergency Cttee. for American Trade; mem. Board, Chamber of Commerce of the United States, Chair. Bd. of Trustees American Ballet Theatre. *Leisure interests:* tennis, golf, jogging, skiing, salmon fishing. *Address:* PepsiCo Inc., Purchase, N.Y. 10577 (Office); Porchuck Road, Greenwich, Conn., U.S.A. (Home).

KENDALL, Sir Maurice George, Kt., M.A., SC.D., F.B.A.; British statistician; b. 6 Sept. 1907, Ketterling; s. of John Roughton Kendall and Georgina Jessie Kendall (née Brewer); m. 1st Sheila Frances Holland Lester 1932, 2nd Kathleen Ruth Audrey Phillipson 1947; three s. one d.; ed. Central School Derby, and St. John's Coll., Cambridge; Perm. Civil Servant with Ministry of Agriculture and Fisheries 1930-40; Statistician to the Chamber of Shipping of the U.K. 1940-49, Joint Asst. Gen. Man. 1947-49; Prof. of Statistics Univ. of London 1949-61; Dir. of Scientific Services, Scientific Control Systems Ltd. 1961-, Man. Dir. 1962-, Chair. 1967-72; Dir. World Fertility Survey 1972-; Fellow, American Statistical Assn., Inst. of Mathematical Statistics; Hon Fellow L.S.E. 1975; Hon. mem. Int. Statistical Inst. 1978; Silver and Gold Medallist of the Royal Statistical Soc.; Vice-Pres. Market Research Soc.; fmr. Pres. Operational Research Soc., Royal Statistical Soc.; Hon. D. Univ. (Essex) 1968, (Lancaster) 1975. *Publications:* An Introduction to the Theory of Statistics (with G. Udny Yule), The Advanced Theory of Statistics (with A. Stuart) (3 vols.), Contributions to the Study of Oscillatory Time-Series, Rank Correlation Methods, A Dictionary of Statistical Terms (with W.R. Buckland), A Course in Multivariate Analysis, The Geometry of n Dimensions, Geometrical Probability (with P. A. Moran), Bibliography of Statistical Literature Vols 1-3 (with Alison Doig), Studies in the History of Probability and Statistics (ed. with E. S. Pearson), Time-Series, Multivariate Analysis. *Leisure interests:* chess, music, writing. *Address:* 1 Frank Dixon Close, London, S.E.21, England. *Telephone:* 01-693 6076.

KENDALL, William Hersey; American railway executive; b. 24 March 1910, Somerville, Mass.; s. of Warren C. Kendall and Helen Hodgkins Kendall; m. Lucile Hayworth 1935; one s. one d.; ed. Dartmouth Coll., and Thayer School of Engineering; Maintenance Engineer, Pennsylvania Railroad 1933-48; Exec. Officer, Atlantic Coast Line Railroad 1948-50, Clinchfield Railroad 1950-54; Exec. Officer, Louisville and Nashville Railroad 1954-, Vice-Pres., Gen. Man. 1957-59, Pres. 1959-72; Vice-Chair. SCL Industries 1972-75; Pres. H & K Inc., partner in Cleancoal Terminals. *Address:* 1194 Starks Building, Louisville, Ky. 40202, U.S.A. *Telephone:* 502-587-6437.

KENDREW, Maj.-Gen. Sir Douglas Anthony, K.C.M.G., C.B., C.B.E., D.S.O., K.ST.J.; British army officer and administrator; b. 22 July 1910, Barnstaple, Devon; s. of Dr. Alexander Kendrew and Eva Faviell; m. Nora Harvey 1936; one s. one d.; ed. Uppingham School. Second Lieutenant, Royal Leicestershire Regt. 1931, Major 1941; Brigade Major, N. Africa 1942, Cmmdr., 6th Battalion, York and Lancaster Regt., North Africa and Italy 1943, Brigade Cmmdr., Italy, Middle East, and Greece 1943-46; Commdt. School of Infantry, Rhine Army 1946-48; Commdt. Army Apprentice School, Harrogate 1948-50; Chief of Staff, Northern Ireland Dist. 1950-52; Commdr., 29th Infantry Brigade, Korea 1952-53; Imperial Defence Coll. 1954; Brigadier Admin., H.Q. Northern Command 1955; Gen. Officer Commanding, Cyprus Dist. and Dir. of Operations 1956-58; Dir. of Infantry, War Office 1958-60; Head of British Defence Liaison Staff, Australia 1960-63; Gov. of W. Australia 1963-73; Commr. Chelsea Hospital 1974; Pres. Knights of the Round Table 1975; Hon. LL.D. (W. Australia). *Leisure interests:* photography, sport. *Address:* The Manor House, Islip, Northants, England. *Telephone:* Thrapston 2325.

KENDREW, Sir John Cowdery, Kt., C.B.E., SC.D., F.R.S.; British molecular biophysicist; b. 24 March 1917, Oxford; s. of W. G. Kendrew; ed. Dragon School, Oxford, Clifton Coll. and Trinity Coll., Cambridge; Ministry of Aircraft Production 1940-45; Fellow of Peterhouse, Cambridge 1947-75; Medical Research Council 1947-74, Deputy Chair. Medical Research Council Laboratory of Molecular Biology, Cambridge 1953-74; Reader, Davy-Faraday Lab., Royal Inst. 1954-68; Mem. Council for Scientific Policy 1965-72, Deputy Chair. 1970-72; Sec.-Gen. European Molecular Biology Conf. 1970-74; Editor-in-Chief Journal of Molecular Biology; Dir.-Gen. European Molecular Biology Lab., Heidelberg 1975-; Pres. British Assn. for the Advancement of Science 1974; Sec.-Gen. Int. Council of Scientific Unions 1974-; Trustee British Museum 1974; Foreign Assoc. U.S. Nat. Acad. of Sciences 1972; Hon. Fellow, Trinity Coll., Cambridge 1972, Peterhouse, Cambridge 1975; Hon. D.Sc. (Keele and Reading); D.Univ. (Stirling) 1974; Dr. h.c. (Pécs, Hungary); Nobel Prize for Chem. 1962; Royal Medal, Royal Soc. 1965. *Publication:* The Thread of Life 1966. *Address:* European Molecular Biology Laboratory, Postfach 102209, 69 Heidelberg, Federal Republic of Germany; 4 Church Lane, Linton, Cambridge, CB1 6JX, England. *Telephone:* (6221)-387200 (Germany); Cambridge 891 545.

KENDRICK, Sir Thomas Downing, K.C.B., D.LITT., LITT.D., F.B.A., F.S.A.; British antiquarian; b. 1895. Keeper of British Antiquities in the British Museum 1938-50, Dir. and Principal Librarian 1950-59 (retd.). *Publications:* The Lisbon Earthquake 1956, Saint James in Spain 1960, Great Love for Icarus 1962, Mary of Agreda 1967. *Address:* The Old Farm House, Organford, nr. Poole, Dorset, England.

KENEALLY, Thomas Michael, F.R.S.L.; Australian author; b. 7 Oct. 1935; s. of Edmund Thomas and Elsie Margaret Keneally; m. Judith Mary Martin 1965; two d.; Lecturer in Drama, Univ. of New England, Armidale, N.S.W. 1968-70; Royal Soc. of Literature Prize. *Publications:* Bring Larks and Heroes 1967, Three Cheers for the Paraclete 1968, The Survivor 1969, A Dutiful Daughter 1970, The Chant of Jimmie Blacksmith 1972, Blood Red, Sister Rose 1974; Gossip from the Forest 1975, Season in Purgatory 1976, A Victim of the Aurora 1977, Passenger 1978. *Leisure interests:* swimming, hiking. *Address:* c/o William Collins Publishers Pty. Ltd., 36 Clarence Street, Sydney, N.S.W. 2000, Australia.

KENG PIAO; Chinese diplomatist, politician and fmr. army officer; b. 1909, Li-ling, Hunan; ed. Chinese Worker-Peasant Red Army Coll.; Maj.-Gen. 1946; Chief of Staff, N. China Field Army 1947; Amb. to Sweden 1950-56, concurrently Minister to Denmark 1950-55, to Finland 1951-54; Amb. to Pakistan 1956-59; Vice-Minister

of Foreign Affairs 1960-63; Amb. to Burma 1963-67, to Albania 1969-71; Dir. Int. Liaison Dept., CCP 1971-78; mem. 9th (1969), 10th (1973) Cen. Cttee., CCP; mem. Politburo 11th Cen. Cttee. CCP 1977; Vice-Premier, State Council March 1978-; mem. CCP Cen. Cttee's Mil. Comm. 1979-. *Address:* People's Republic of China.

KENILOREA, Peter, P.C., DIP. ED.; Solomon Islands politician; b. 23 May 1943, Takataka, Malaita; m. Margaret Kwanairara 1971; two s. two d.; ed. Teachers' Coll. in New Zealand; Schoolmaster, King George VI Secondary School 1968-70; Asst. Sec. Finance 1971; Admin. Officer, district admin. 1971-73; Lands Officer 1973-74; Deputy Sec. to Cabinet and to Chief Minister 1974-75; District Commr., Eastern Solomons 1975-76; mem. Legis. Assembly 1976-78; Chief Minister of the Solomon Islands 1976-78; Prime Minister of Solomon Islands 1978-; [redacted] Nat. Parl. 1978-; Queen's Silver Jubilee Medal 1977. *Publications:* numerous articles for political and scientific publication. *Leisure interests:* reading, sports. *Address:* Prime Minister's Office, Honiara, Guadalcanal, Solomon Islands. *Telephone:* 202 (Office); 373 (Home).

KENNAN, George Frost, A.B.; American diplomatist and scholar; b. 16 Feb. 1904, Milwaukee, Wis.; m. Annelise Sørensen 1931; one s. three d.; ed. Princeton Univ.; Vice-Consul Hamburg 1927, Tallin 1928; Third Sec. Riga, Kovno and Tallin 1929; Language Officer, Berlin 1929; Third Sec. Riga 1931, Moscow 1934; Consul Vienna 1935, Second Sec. 1935; Second Sec. Moscow 1935; Dept. of State 1937; Second Sec. Prague 1938, Consul 1939; Second Sec. Berlin 1939, First Sec. 1940; Counsellor, Lisbon 1942; Counsellor to U.S. del. European Advisory Comm. London 1944; Minister-Counsellor Moscow 1945; Deputy for Foreign Affairs, Nat. War Coll., Washington 1946; Policy Planning Staff, Dept. of State 1947; Chief, Policy Planning Staff, Dept. of State 1949-50; on leave, at Inst. for Advanced Study, Princeton, N.J. 1950-51, Prof. 1956; Amb. to U.S.S.R. 1952-53; retd. from Foreign Service 1953; Charles R. Walgreen Foundation Lecturer, Univ. of Chicago 1951; Stafford Little Lecturer, Princeton 1954; George Eastman Visiting Prof. Oxford Univ. 1957-58; Reith Lecturer on Russia, The Atom and the West 1957; Visiting Lecturer, History, Harvard Univ. 1960, Yale Univ. 1960; Amb. to Yugoslavia 1961-63; Prof. Inst. for Advanced Study, Princeton 1963-74, Prof. Emer. 1974-; Prof. Princeton Univ. 1964-66; mem. Nat. Inst. of Arts and Letters (Pres 1965-68); American Acad. of Arts and Letters (Pres 1967-71); Univ. Fellow in History and Slavic Civilizations; Harvard Univ. 1966-70; Fellow, All Souls Coll., Oxford 1969; Fellow, Woodrow Wilson Int. Center for Scholars, Smithsonian Inst. 1974-75; Nat. Book Award, Bancroft Prize, Pulitzer Prize history 1956, biography 1968, Francis Parkman Prize; LL.D. h.c. (Yale, Dartmouth, Colgate, Notre Dame, Kenyon, New School for Social Research, Princeton, Michigan, Northwestern, Brandeis, Denison, Harvard, Rutgers, Wisconsin Univs.); Benjamin Franklin Fellow of the Royal Soc. of Arts, London 1968; Hon. D.C.L. (Oxford) 1969. *Publications:* American Diplomacy 1900-1950 1952, Das Amerikanisch-Russische Verhältnis 1954, Realities of American Foreign Policy 1954, Soviet-American Relations 1917-1920, Vol. I, Russia Leaves the War 1956, Vol. II, The Decision to Intervene 1958, Russia, The Atom and the West (Reith Lectures) 1958, Soviet Foreign Policy 1917-45 1960, Russia and the West under Lenin and Stalin 1961, On Dealing with the Communist World 1963, Memoirs 1925-1950 1967, Democracy and the Student Left 1968, From Prague After Munich: Diplomatic Papers 1938-1940 1968, The Marquis de Custine and his "Russia in 1839" 1971, Memoirs 1950-1963 1972, The Cloud of Danger 1977. *Address:* The Institute for Advanced Study, Princeton, N.J. 08540, U.S.A.

KENNEDY, David Matthew, A.B., M.A., LL.B.; American banker; b. 21 July 1905, Randolf, Utah; s. of George Kennedy and Katherine Johnson; m. Lenora Bingham 1925; four d.; ed. Weber Coll., George Washinton Univ., and Stonier Graduate School of Banking Rutgers Univ.; Special Asst. to Chair. Board, Fed. Reserve System 1930-46; Vice-Pres. in charge Bond Dept. Continental Ill. Nat. Bank and Trust Co. of Chicago 1946-53, Pres. 1956-59, Chair. of Board and Chief Exec. Officer 1959-69; Asst. to Sec. of Treasury, Washington 1953-55; Sec. of U.S. Treasury 1969-71; Amb.-at-Large dealing with int. finance 1970-71; Amb. to NATO 1971-73; U.S. Gov. IBRD, IMF, Inter-American Bank, Asian Devt. Bank 1969-71; Chair. Pres.'s Comm. on Budgetary Concepts, Joint Comm. on the Coinage, Nat. Advisory Council for Int. Monetary and Fiscal Policies, Exec. Board Comm. for Econ. and Cultural Devt. of Chicago; fmr. Dir. Abbott Laboratories, Int. Harvester Co., Commonwealth Edi[redacted] Co., Pullman Co., Swift and Co., Radio New York Worldwide Communications Satellite Corpn., United States Gypsum Co.; mem. Fed. Advisory Comm. on Econ. Assets, Nat. Public Advisory Comm. for Regional Econ. Devt.; Fed. Advisory Council, Fed. Reserve Bd.; Trustee, Univ. of Chicago, Presbyterian-St. Luke's Hospital, Equitable of Iowa, Brookings Inst., George Washinton Univ.; Republican. *Leisure interests:* riding, hunting, fishing. *Address:* 33 Meadow View Drive, Northfield, Ill. 60093, U.S.A.

KENNEDY, Eamonn, M.A., B.COMM., PH.D.; Irish diplomatist; b. 13 Dec. 1921, Dublin; s. of Luke W. and Ellen (née Stafford) Kennedy; m. Barbara J. Black 1960; [redacted] s. one d.; ed. O'Connell School, Dublin, Univ. Coll. Nat. Univ. of Ireland, Dublin and the Sorbonne, Paris. Third Sec., Dept. of Foreign Affairs, Dublin 1943; Consul, New York 1947; Second Sec., Canada 1947-49; First Sec., Washington 1949-50, Paris 1950-54; First Sec. and Acting Chief of Protocol, Dept. of Foreign Affairs 1954-56; Counsellor, Irish Mission to UN 1956-61; Irish del. to UN Gen. Assembly 1956-60; Amb. to Nigeria 1961-64, to Fed. Repub. of Germany 1964-70, to France 1970-74; Perm. Rep. to OECD, Perm. del to UNESCO 1970-74; Perm. Rep. to UN 1974-78; Amb. to U.K. 1978-; Grosses Bundesverdienstkreuz mit Stern, Grande Croix de Mérite de la Répub. Française. *Leisure interests:* golf, languages, theatre, music. *Address:* The Irish Embassy, 17 Grosvenor Place, London SW1X 7HR, England.

KENNEDY, Edward Moore, A.B., LL.B.; American lawyer and politician; b. 22 Feb. 1932, Boston, Mass.; s. of late Joseph Kennedy and of Rose Kennedy; brother of late Pres. John F. Kennedy; m. Virginia Joan Bennett 1958; two s. one d.; ed. Milton Acad., Harvard Coll. and Univ. of Virginia Law School; U.S. Army, Infantry, Private 1st Class 1951-53; Reporter, Int. News Service, N. Africa 1956; Man. Western States, John F. Kennedy Presidential Campaign 1960; fmr. Asst. District Attorney, Mass.; U.S. Senator from Massachusetts 1963-; Asst. Majority Leader, U.S. Senate 1969-71; Pres. Joseph P. Kennedy Jr. Foundation 1961-; Trustee, Boston Univ., Boston Symphony, John F. Kennedy Library, Lahey Clinic, Boston, John F. Kennedy Center for the Performing Arts, Robert F. Kennedy Memorial Foundation; Board mem. Fletcher School of Law and Diplomacy, Mass. Gen. Hospital; mem. Bd. Advisers, Dunbarton Oaks Research Library and Collections; numerous hon. degrees; Order of the Phoenix (Greece) 1976, Democrat. *Publications:* Decisions for a Decade 1968, In Critical Condition 1972. *Address:* U.S. Senate, Washington, D.C., U.S.A.

KENNEDY, Eugene Patrick, B.SC., PH.D.; American professor of biological chemistry; b. 4 Sept. 1919, Chicago; s. of Michael and Catherine Frawley Kennedy; m. Adelaide Majewski 1943; three d.; ed. De Paul Univ. and Univ. of Chicago; Asst. Prof., Ben May Lab., Univ. of Chicago 1952-55, Assoc. Prof. 1955-56, Prof. of Biological Chem. 1956-60; Prof. and Head, Dept. of Biological Chem., Harvard Medical School 1960-65, Hamilton Kuhn Prof. of Biological Chem., Harvard Medical School 1960-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Glycerine Research Award 1956; Paul-Lewis Award, American Chem. Soc. 1959; Assoc. Editor Journal of Biological Chemistry 1969; Pres. American Soc. of Biol. Chemists 1970-71; Lipid Chem. Award of the American Oil Chemists Soc. 1970; Hon. D.Sc. (of Chicago) 1977; Josiah Macy, Jr. Foundation Faculty Scholar Award 1974, Gairdner Foundation Award 1976, George Ledlie Prize (Harvard) 1976. *Publications:* 102 papers. *Address:* Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115, U.S.A. *Telephone:* 617-73 2-1861.

KENNEDY, Jacqueline Lee Bouvier (*see* Onassis, Mrs. Jacqueline).

KENNEDY, Ludovic Henry Coverley, M.A.; British writer and broadcaster; b. 3 Nov. 1919, Edinburgh; s. of late Capt. E. C. Kennedy, R.N., and of Rosalind Kennedy; m. Moira Shearer King 1950; one s. three d.; ed. Eton Coll., Christ Church, Oxford; served in Navy 1939-46 (attained rank of Lieut.); Private Sec. and A.D.C. to Gov. of Newfoundland 1943-44; Librarian, Ashridge (Adult Educ.) Coll. 1949; Editor, feature, First Reading (BBC Third Programme) 1953-54; Lecturer for British Council, Sweden, Finland, Denmark 1955, Belgium, Luxembourg 1956; Contested Rochdale by-election 1958, gen. election 1959 [redacted] Liberal candidate; Pres. Nat. League of Young Liberals 1959-61, mem. Liberal Party Council 1965-67; TV and radio: Introduced Profile, ATV 1955-56; Newscaster, ITV 1956-58; Introducer On Stage, Associated Rediffusion 1957, This Week, Associated Rediffusion 1958-59; Chair. BBC features: Your Verdict 1962, Your Witness 1967-70; commentator BBC's Panorama 1960-63, Television Reports Int. (also producer) 1963-64; Introducer BBC's Time Out 1964-65, World at One 1965-66; Presenter Liberal Party's Gen. Election TV Broadcasts 1966, The Middle Years, ABC 1967, The Nature of Prejudice, ATV 1968, Face The Press, Tyne-Tees 1968-69, 1970-72, Against the Tide, Yorkshire TV 1969, Living and Growing, Grampian TV 1969-70, 24 Hours, BBC 1969-72, Ad Lib, BBC 1970-72, Midweek, BBC 1973-75, Newsday, BBC 1975-76, interviewer Tonight, BBC 1976–,

A Life with Crime BBC 1979; *Films include:* The Sleeping Ballerina, The Singers and the Songs, Scapa Flow, Battleship Bismarck, Life and Death of the Scharnhorst, U-Boat War, Target Tirpitz, The Rise of the Red Navy, Lord Haw-Haw; mem. Council Navy Records Soc. 1957-70; Pres. Sir Walter Scott Club, Edinburgh 1968-69; Chair. Royal Lyceum Theatre Co. of Edinburgh 1977-; F.R.S.A. 1974-76. *Publications:* Sub-Lieutenant 1942, Nelson's Band of Brothers 1951, One Man's Meat 1953, Murder Story 1956, Ten Rillington Place 1961, The Trial of Stephen Ward 1964, Very Lovely People 1969, Pursuit: the Chase and Sinking of the Bismarck 1974, A Presumption of Innocence: the Amazing Case of Patrick Meehan 1975; Gen. Editor The British at War 1973-, The Portland Spy Case 1978, Menace; The Life and Death of the Tirpitz 1979. *Leisure interests:* fishing, shooting, golf, backgammon. *Address:* c/o A. D. Peters, 10 Buckingham Street, London, W.C.2, England.

KENNET, (2nd Baron) cr. 1935, of the Dene; **Wayland Young;** British writer and politician; b. 2 Aug. 1923, London; s. of Edward Hilton Young (Lord Kennet) and Kathleen Bruce; m. Elizabeth Ann Adams 1948; one s. five d.; ed. Stowe School, Trinity Coll., Cambridge, Perugia and Harvard Univs.; Royal Navy 1942-45; Foreign Office 1946-47, 1949-51; mem. Parl. Assembly Council of Europe and Western European Union 1962-65; Chair. British Cttee. for International Co-operation Year 1965; Parl. Sec. Ministry of Housing and Local Govt. 1966-70; Chair. Int. Parl. Confs. [illegible] the Environment 1971-; Chair. Cttee. on Oil Pollution of the Sea 1970-74; Chair. Council for the Protection of Rural England 1971-72; Opposition Spokesman on Foreign Affairs, House of Lords 1971-74; Dir. Europe Plus Thirty Project 1974-75; mem. European Parl. 1978-; mem. Redundant Churches Fund 1978-. *Publications:* The Italian Left 1949, The Deadweight 1952, Now or Never 1953, Old London Churches (with Elizabeth Young) 1956, The Montesi Scandal 1957, Still Alive Tomorrow 1958, Strategy for Survival 1959, The Socialist Imagination (with Elizabeth Young) 1960, Disarmament: Finnegan's Choice (with Elizabeth Young) 1961, The Profumo Affair 1963, Eros Denied 1965, Preservation 1972, The Future of Europe 1976; Editor Disarmament and Arms Control 1963-65. *Leisure interests:* sailing, swimming, music. *Address:* House of Lords, London, S.W.1, England.

KENNY, Anthony John Patrick, D.PHIL., F.B.A.; British philosopher and university teacher; b. 16 March 1931, Liverpool; s. of John and Margaret (Jones) Kenny; m. Nancy Caroline Gayley 1966; two s.; ed. Gregorian Univ., Rome, St. Benet's Hall, Oxford; ordained Catholic priest, Rome 1955; Curate, Liverpool 1959-63; returned to lay state 1963; Asst. Lecturer, Univ. of Liverpool 1961-63; Lecturer in Philosophy, Exeter and Trinity Colls., Oxford 1963-64; Tutor in Philosophy, Balliol Coll, Oxford 1964, Sr. Tutor 1971-72, 1976-77, Master Oct. 1978-; Wilde Lecturer in Natural and Comparative Religion, Oxford 1969-72; Joint Gifford Lecturer, Univ. of Edinburgh 1972-73; Visiting Prof. Stanford and Rockefeller Univs., Univs. of Chicago, Washington, Michigan, Cornell; Edited The Oxford Magazine 1972-73; Fellow of Balliol Coll. 1964-78. *Publications:* Action, Emotion and Will 1963, Responsa Alumnorum of English College, Rome (2 vols.) 1963, Descartes 1968, The Five Ways 1969, Wittgenstein 1973, The Anatomy of the Soul 1974, Will, Freedom and Power 1975, Aristotelian Ethics 1978, Freewill and Responsibility 1978. *Address:* Balliol College, Oxford, OX1 3BJ, England. *Telephone:* Oxford 49601.

KENNY, Douglas T., PH.D.; Canadian professor of psychology and university administrator; b. 1923, Victoria, B.C.; m.; two c.; ed. Univ. of British Columbia, Univ. of Washington, Seattle, Wash., U.S.A.; mem. now Prof., Dept. of Psychology, Univ. of British Columbia 1950-, Head of Dept. 1965-69, Acting Dean of Faculty of Arts 1969-70, Dean 1970-75, Pres. of Univ. July 1975-; has also taught in U.S.A. at Washington Univ., Seattle, Washington State Univ., Pullman, Harvard Univ.; Pres. British Columbia Psychological Assn. 1961, Faculty Assn., Univ. of B.C. 1962; mem. Canada Council 1975-78; Trustee, Vancouver Gen. Hosp. 1976-78; [illegible] Social Sciences and Humanities Research Council 1978-. *Publications:* numerous articles in Canadian and American journals. *Address:* University of British Columbia, Vancouver, British Columbia V6T 1W5, Canada. *Telephone:* 228-2121.

KENT, H.R.H. the Duke of: Prince Edward George Nicholas Paul Patrick, G.C.M.G., G.C.V.O.; the Earl of St. Andrews and the Baron Downpatrick; b. 9 Oct. 1935; s. of the late Duke of Kent (fourth s. of King George V) and Princess Marina (d. of late Prince Nicholas of Greece); m. Katherine Worsley 1961; two s. (George, Earl of St. Andrews, and Lord Nicholas Windsor) one d. (Lady Helen Windsor); ed. Eton Coll. and Le Rosey, Switzerland; Second Lieut., Royal Scots Greys 1955; attended Army Staff Course 1966, later on staff, G.O.C. Eastern Command, Hounslow, Major 1967; Lieut.-Col. Royal Scots Dragoon Guards 1972; Ministry of Defence 1972-76; retd. from army 1976; Vice-Chair. British Overseas Trade Board 1976-; Pres. Royal Inst. of Great Britain 1976-; Chancellor Univ. of Surrey 1977-; Patron Inst. of Export 1977-, Kent Opera 1978-; [illegible] Queen's Special Rep. has visited Sierra Leone 1961, Uganda 1962, The Gambia 1965, Guyana and Barbados 1966, Tonga 1967; A.D.C. to H.M. The Queen 1967; Grand Master of the United Grand Lodge of England June 1967-; tour of Australia and S. Pacific 1969; Pres. All-England Lawn Tennis Club 1969-; Col.-in-Chief Royal Regt. of Fusiliers 1969-, Devonshire and Dorset Regt. 1978-, Lorne Scots Regt. 1978-; Col. Scots Guards 1974; decorations from Greece, Nepal, Liberia and Jordan; Hon. D.C.L. (Durham). *Leisure interests:* skiing, shooting, photography, opera. *Address:* York House, St. James's Palace, London, S.W.1; Anmer Hall, Norfolk, England.

KENT, Sir Peter (Percy Edward), Kt., PH.D., D.SC., F.R.S.; British geologist; b. 18 March 1913, Nottingham; s. of Edward L. and Annie (née Woodward) Kent; [illegible] 1st Margaret B. Hood 1940 (died 1974), two d.; m. 2nd Lorna O. Scott 1976; ed. W. Bridgford Grammar School and Nottingham Univ.; joined Anglo Iranian Oil (later BP) 1936; R.A.F.V.R. 1941-46; geological survey work in U.K., Iran, E. Africa, Papua, Canada 1946-60; Chief Geologist, Australasian Petroleum Co. 1956; Adviser to Pres., BP Exploration (Canada) 1957-58; Pres. BP Exploration Co. (Alaska) Inc. 1959-60; Deputy Chief Geologist, BP 1961-62; Regional Man., N. and S. America, BP 1962-63; Technical Man. and Regional Man. (America and Western Hemisphere) BP 1963-65; Chief Geologist, BP 1966-71, Asst. Gen. Man. (Exploration) 1971-73; mem. Natural Environment Research Council 1973-; Chair. 1973-77; Dir. London and Scottish Marine Oil Co. 1977-; Pres. Geological Soc. of London 1974-76; Hon. DSc. (Bristol) 1977; Legion of Merit (U.S.A.) 1946; Lyell Fund 1949, Bigsby Medal 1953, Murchison Medal 1969 (all from Geological Soc. of London); MacRobert Award 1970; Royal Soc. Royal Medal 1971; Sorby Medal (Yorks. Geological Soc.) 1973. *Publications:* Geology Lincolnshire (co-author) 1959; about 120 articles on geology and oil exploration. *Leisure interests:* walking, gardening, landscape painting, choral singing. *Address:* 43 Trinity Court, Gray's Inn Road, London, W.C.1; 38 Rodney Road, West Bridgford, Nottingham, NG2 6JH, England. *Telephone:* 01-837 5275 (London); 0602-231355 (Nottingham).

KENTNER, Louis Philip, C.B.E.; British pianist; b. 19 July 1905, Karwin, Silesia; s. of Julius Kentner and Gisela Buchsbaum; m. 1st Ilona Kabos 1933 (dissolved 1945), 2nd Griselda Gould 1946; ed. Royal Acad. of Music, Budapest; studied with Arnold Székely, Leo Weiner and Zoltan Kodály; concert pianist at age of 14, and has since performed in many parts of the world; took up residence in England 1935; gave first performance of Bartók's Second Concerto under Otto Klemperer's direction; world tour 1953; gave several complete performances of Beethoven's Piano Sonatas and Violin and Piano Sonatas with Yehudi Menuhin 1954-55; gave first performance of Michael Tippett's Piano Concerto in Birmingham Oct. 1956; toured South America 1956; five tours of U.S.A. and Canada 1956-; tours of U.S.S.R. 1963, 1964, 1967; Pres. Liszt Soc. 1965-, Chopin Soc., European Pianoforte Teachers' Assn. *Compositions:* 3 Sonatinas for Piano. *Publication:* The Piano 1976. *Leisure interests:* reading, chess. *Address:* 1 Mallord Street, London, S.W.3, England.

KEOGH, James; American journalist and government official; b. 29 Oct. 1916, Nebraska; joined Omaha Herald 1938, rising to Editor 1948-51; contrib. to Time 1951, Ed. 1956-68; chief of research, Presidential election campaign 1968; special asst. to Pres. Nixon 1969-70; Dir. U.S. Information Agency 1973-76; Exec. Dir., Business Roundtable 1976-. *Publications:* This is Nixon 1956, President Nixon and the Press 1972. *Address:* 405 Lepington Avenue, New York, N.Y. 10017, U.S.A.

KĘPA, Jozef; Polish politician; b. 18 May 1928, Rzeczyca, Rawa Mazowiecka district; s. of Szczepan Kępa and Rozalia Perek; m. Aleksandra Worwińska 1953; one s.; ed. Warsaw Univ.; mem. Polish United Workers' Party (PUWP) 1948-, mem. Cen. Cttee. 1968-, Cand. mem. Politburo 1970-75, full mem. Dec. 1975-; Sec. PUWP District Cttee., Warsaw-Mokotów 1959-60; Head, Educ. and Sciences Dept., PUWP Warsaw Cttee., 1960-61; Sec. PUWP Warsaw Cttee. 1961-67, First Sec. 1967-76; Deputy to Seym 1969-; Chair. Capital Nat. Council, Warsaw 1973-77; Deputy Chair., Council of Ministers 1977-78; Minister of Local Govt. and Environmental Control 1979-; Order of Banner of Labour (1st and 2nd Class); Knight's Cross, Order of Polonia Restituta; Medal of 30th Anniversary of People's Poland, Gold Hon. Award for Merits to Warsaw 1977, Order of Builders of People's Poland 1978, and other decorations. *Leisure interests:* medals, gathering mushrooms. *Address:* Urząd Rady Ministrow, Al. Ujazdowskie 1/3, 00-583 Warsaw, Poland.

KEPPEL, Francis, A.B.; American educational administrator; b. 16 April 1916, New York; s. of Frederick and Helen T. Keppel; m. Edith Moulton Sawin 1941; two d.; ed. Harvard Coll., American Acad., Rome; Sec. Joint Army and Navy Cttee. on Welfare and Recreation, Washington 1941-44; U.S. Army 1944-46; Asst. to Provost, Harvard 1946-48, Dean, Harvard Graduate School of Education 1948-62; U.S. Commr. of Educ. U.S. Dept. of Health, Educ. and Welfare 1962-65, Asst. Sec. (for Educ.) 1965-66; Chair. of Board Gen. Learning Corpn. 1966-74; Chair. Educ. Cttee., Lincoln Center Board of Dirs. 1973-; Dir. Program in Educ., Aspen Inst. for Humanistic Studies 1974-; Vice-Chair. Board of Higher Educ., City Univ. of New York 1967-70; mem. Board of Overseers, Harvard Univ. 1967-73; Sr. Lecturer in Educ., Harvard Univ. 1977; Fellow, American Acad. of Arts and Sciences; Trustee Carnegie Corpn. 1970-. *Publication:* The Necessary Revolution in American Education 1966. *Address:* 984 Memorial Drive, Cambridge, Mass. 02138, U.S.A.

KERBY, William Frederick; American editor and business executive; b. 28 July 1908; ed. Univ. of Michigan; Staff Corresp., United Press Assen., Washington, D.C. 1930-32; Wall Street Journal, Washington 1933-35, New York 1937-42, Managing Ed. 1943/44; Exec. Ed. Dow Jones publications 1945-51, Vice-Pres. Dow Jones and Co. Inc. 1951-60, Exec. Vice-Pres. Dow Jones and Co. Inc. and Editorial Dir. Dow Jones publications 1961-66, Pres. Dow Jones and Co. Inc. 1966-72, Chair of Board 1972-78, Chair. Exec. Cttee. of Board and Dir. 1978-. *Address:* 22 Cortlandt Street, New York, N.Y. 10007, U.S.A.

KÉRÉKOU, Lt.-Col. Mathieu; Benin army officer and politician; b. 2 Sept. 1933, Natitingou; ed. Saint-Raphael Mil. School, France; served French Army until 1961; joined Dahomey Army 1961; Aide-de-camp to Pres. Maga 1961-63; took part in mil. coup d'état which removed Pres. Christophe Soglo 1967; Chair. Mil. Revolutionary Council 1967-68; continued studies at French mil. schools 1968-70; Commdr. Ouidah Paratroop Unit and Deputy Chief of Staff 1970-72; leader of the military coup d'état which ousted Pres. Ahomadegbe Oct. 1972; Pres. and Prime Minister, Minister of Nat. Defence 1972-, fmr. Minister of Planning, of Co-ordination of Foreign Aid, Information and Nat. Orientation. *Address:* Présidence de la République, Cotonou, Benin.

KERENSKY, Oleg Alexander, C.B.E., F.R.S., D.SC., F.I.C.E., F.I.STRUCT.E., F.INST.H.E., F.W.I.; British consulting engineer; b. 16 April 1905, St. Petersburg, Russia; s. of late Alexander Kerensky and Olga Kerensky; m. 1st Nathalie Bely 1928, one s.; m. 2nd Dorothy Harvey 1971; ed. private schools in St. Petersburg and London, and at Northampton Eng. Coll. (now the City Univ.); fmr. Junior Asst. to Oxfordshire County Surveyor; Asst. Engineer, later Chief Designer in Bridge Dept. of Dorman Long & Co. Ltd. engaged on design and construction of bridges, power stations and other structures, most notable being Sydney Harbour Bridge, Storstrom Bridge, Lambeth Bridge and S. African Steelworks, Chief Engineer on construction of Wandsworth Bridge, London, and Avonmouth Jetty; in charge of fabrication and assembly in N. Wales of "Buffer Pontoons" and "Beetles" for Mulberry Harbour with Holloway Bros. (London) Ltd.; joined Freeman, Fox and Partners as principal bridge designer engaged on designs of Severn, Forth, Auckland Harbour, Ganga and other bridges; Consultant, Freeman Fox & Partners 1956-75; responsible for Medway Bridge, M2 Motorway, Grosvenor Railway Bridge, M5 Motorway (Ross Spur-East Brent), urban devts. in Bristol, Birmingham and London, Erskine Bridge over R. Clyde, motorway bridges in N. Ireland, Friarton Bridge over River Tay; founder mem. Fellowship of Eng.; fmr. Pres. Inst. of Structural Engineers and Inst. of Highways Engineers; official of other civil engineering orgs.; fmr. Chair. Council of Construction Industry Research and Information Assen.; numerous awards including Telford and Stephenson Gold Medals, Inst. of Civil Engineers, Gold Medal of Inst. Structural Engineers 1977. *Publications:* several technical papers and articles. *Leisure interests:* bridge and croquet. *Address:* c/o Freeman Fox & Partners, 25 Victoria Street, London, SW1H 0EX (Office); 27 Pont Street, London, S.W.1, England (Home). *Telephone:* 01-222 8050 (Office); 01-235 7173 (Home).

KERESZTURY, Dezső, PH.D.; Hungarian literary historian and writer; b. 6 Sept. 1904, Zalaegerszeg; s. of József Keresztury and Etelka Eöry; m. Mária Seiber 1934; ed. Budapest, Vienna and Berlin; Lecturer and librarian in Hungarian Inst. of Berlin Univ. 1928-36; lecturer in Hungarian Literature, Eötvös Coll., Budapest 1935-45, Dir. of Coll. 1945-48; Minister of Educ. 1945-47; Chief Librarian of Hungarian Acad. 1948-51; Head of Historical Collections in Nat. Széchényi Library until 1971; Vice-Pres. World Fed. of Hungarians, and Int. Lenau Soc.; mem. Hungarian Acad. of Sciences; edited selected speeches of Mihály Babits, Géza Laczkó, Károly Pap, the complete works of János Batsányi and János Arany; Banner Order of Hungarian People's Repub. 1974; Grillparzer Ring, Vienna 1974, Herder Prize 1976, State Prize 1978, Ady Prize 1978. *Publications:* Arany János, Ungarn, A német irodalom kincsesháza, Balaton, Helyünk a világban, A magyar irodalom képeskönyve, A magyar zenetörténet képeskönyve, Magyàr Opera és Balett Szcenika, A német elbeszélés mesterei, A német lira kincsesháza, Dunántuli hexameterek, Lassul a szél, Emberi Nyelven, Festbeleuchtung auf dem Holzmarkt, S mi vagyok én, Üzenet, Örökség, A Szépség Haszna, Egry Breviarium, Égö türelem; revised and adapted two plays by Imre Madách: Mózes and Csák végnapjai and Grillparzer's Medea; Tragedy: Nehéz méltóság, Poems: Igy éltem. *Leisure interests:* music, walking, water-colour painting. *Address:* Semmelweis utcá 4, 1052 Budapest V, Hungary. *Telephone:* 176-442.

KERMODE, (John) Frank, M.A., F.B.A., F.R.S.L.; British university professor; b. 29 Nov. 1919, Douglas, Isle of Man; s. of John Pritchard Kermode and Doris Kennedy; m. 1st Maureen Eccles 1947 (divorced), one s. one d.; m. 2nd Anita Van Vactor 1976; ed. Liverpool Univ.; John Edward Taylor Prof., Manchester Univ. 1958-65; Winterstoke Prof., Bristol Univ. 1965-67; Lord Northcliffe Prof., Univ. Coll., London 1967-74; King Edward VII Prof., Cambridge Univ. 1974-; Charles Eliot Norton Prof. of Poetry, Harvard Univ. 1977-78; Foreign mem. American Acad. Arts and Sciences; Hon. D.H.L. (Chicago); Officier de l'Ordre des Arts et des Sciences. *Publications:* Romantic Image 1957, The Sense of Ending 1967, Lawrence 1973, The Classic 1975, The Genesis of Secrecy 1979. *Address:* King's College, Cambridge (Office); 27 Luard Road, Cambridge, England (Home). *Telephone:* Cambridge 50411 (Office); Cambridge 47398 (Home).

KERN, Karl-Heinz, DIPL.JUR.; German diplomatist; b. 18 Feb. 1930, Dresden; s. of Fritz and Elfriede Kern; m. Ursula Bennmann 1952; one s.; ed. Technical Coll., Dresden and Academy for Political Science and Law; positions in various regional authorities in German Democratic Repub. until 1959; Ministry of Foreign Affairs 1959-, Deputy Head G.D.R. Mission in Ghana 1962-63, Head 1963-66, Head African Dept. 1966-71, Minister and Chargé d'Affaires, Trade Mission in U.K. 1971-73; Amb. to U.K. Dec. 1973-; Vaterländische Verdienstorden in Bronze. *Publications:* various publs. on foreign affairs. *Leisure interests:* sports, reading, music. *Address:* Embassy of the German Democratic Republic, 34 Belgrave Square, London, SW1X 8QB, England. *Telephone:* 01-235 9941.

KERR, Chester Brooks, B.A.; American publisher; b. 5 Aug. 1913; m. Joan Paterson Mills 1964; ed. La Villa, Lausanne (Switzerland), Univ. School, Cleveland (Ohio) and Yale Univ.; Ed. Harcourt, Brace & Co. 1936-40; Dir. Atlantic Monthly Press 1940-42; Chief Book Div., Office of War Information and Dept. of State 1942-46; Vice-Pres. Reynal & Hitchcock 1946-47; Sec. Yale Univ. Press 1949-59, Dir. 1959-; Sec.-Treas. Assen. of American Univ. Presses 1957-59, Pres. 1965-67; Consultant to Dept. of State 1951, to Ford Foundation 1957-65 to Library of Congress 1976-77; Dir. New Haven Public Library 1954-70; Dir. American Book Publishers' Council 1966-69; Exec. Comm. Nat. Book Cttee. 1969-; Dir. Franklin Book Program 1971-74; mem. Admin. Bd. Papers of Benjamin Franklin 1954-77; Dir. Nat. Enquiry 1975-. *Publications:* A Report on American University Presses 1949, American University Publishing 1955. *Leisure interest:* skiing. *Address:* Yale University Press, 302 Temple Street, New Haven, Conn. 06511; 421 Humphrey Street, New Haven, Conn. 06520, U.S.A. (Home).

KERR, Clark, PH.D.; American educator; b. 17 May 1911, Reading, Pa.; s. of Samuel W. and Caroline Clark Kerr; m. Catherine Spaulding 1934; two s. one d.; ed. Swarthmore Coll., Stanford Univ., and Univ. of California (Berkeley); Asst. later Assoc. Prof. of Industrial Relations Univ. of Washington 1940; Assoc. Prof., later Prof. of Industrial Relations, Univ. of Calif. (Berkeley) 1945, Chancellor 1952; Pres. Univ. of Calif. 1958-67; Chair. of Carnegie Comm. on Higher Educ. 1967-73, Chair. Carnegie Council Studies in Higher Educ. 1973-; Godkin Lecturer, Harvard 1963, Marshall Lecturer, Cambridge 1967-68; has held various public posts, mainly in the field of labour relations; mem. American Econ. Assen., Industrial Relations Research Assen., Nat. Acad. of Educ., American Acad. of Arts and Sciences; many hon. degrees. *Publications:* Unions, Management, and the Public (with E. W. Bakke) 1948, revised 1964, 1969, Industrialism and Industrial Man (with Dunlop, Harbison and Myers) 1960, The Uses of University 1964, Labour and Management in Industrial Society 1964, Marshall, Marx and Modern Times 1969, Labor Markets and Wage Determination 1977, Education and National Development. *Leisure interest:* gardening. *Address:* 8300 Buckingham Drive, El Cerrito, Calif. 94530, U.S.A.

KERR, Deborah Jane; British actress; b. 30 Sept. 1921, Helensburgh, Dunbarton, Scotland; d. of Arthur Kerr-Trimmer and Colleen Smale; m. 1st Anthony Bartley 1945 (divorced 1960), two d.; m. 2nd Peter Viertel 1960, one step-d.; ed. Rossholme Prep., Weston-super-Mare, Northumberland House, Bristol; began acting career at Open Air Theatre, Regent's Park 1939; first film Contraband, first major role as Jenny Hill in film Major Barbara; went to Hollywood 1946; film awards include four New York Drama Critics' Awards, 1947 (two), 1957, 1960; Hollywood Foreign Press Assn. Awards 1956 (for The King and I), 1958; Variety Club of G.B. Award 1961; six Acad. Award Nominations; awards for plays include Donaldson and Sarah Siddons Awards for Tea and Sympathy. *Films include:* Major Barbara 1940, Love on the Dole 1940, Penn of Pennsylvania 1940, Hatter's Castle 1941, The Day Will Dawn 1941, The Life and Death of Colonel Blimp 1942, Perfect Strangers 1944, Black Narcissus 1945, I See a Dark Stranger 1945, The Hucksters 1946, If Winter Comes 1947, Edward My Son 1948, The Prisoner of Zenda 1948, Young Bess 1949, King Solomon's Mines 1950, Quo Vadis 1950, Rage of The Vulture 1951, Dream Wife 1952, From Here to Eternity 1953, The End of the Affair 1954, The Proud and the Profane 1955, The King and I 1956, Heaven Knows Mr. Allison 1957, An Affair to Remember 1957, Separate Tables 1957/58, The Journey 1958, The Blessing 1958, Beloved Infidel 1960, The Sundowners 1960, The Innocents 1961, The Chalk Garden 1963, The Night of the Iguana 1963, Marriage on the Rocks 1965, Gypsy Moths 1968, The Arrangement 1968/69. *Plays:* Heartbreak House 1943, Tea and Sympathy 1953 (U.S. tour 1954/55), The Day After the Fair (U.S. tour 1973/74), Seascape 1974/75, Souvenir 1975, Long Day's Journey Into Night (U.S.) 1977, Candida (London) 1977. *Leisure interests:* painting, swimming. *Address:* Wyhergut, 7250 Klosters, Switzerland.

KERR, James R.; American business executive; b. 23 Sept. 1917, Las Vegas; s. of Louis Alexander and Mary Louise (Lynch) Kerr; m. Colleen Warrick 1943; two s. two d.; ed. Pasadena City Coll.; U.S. Air Force 1942-54; Dir. West Coast Office, Avco Corpn. 1954-56, Vice-Pres. (Defense Planning), New York Office 1956-57, Pres. Lycoming Div. 1957-60, Research and Advanced Devt. Div. 1958-60, Dir. 1959-, Exec. Vice-Pres. 1960-61, Pres. 1961-74, Chief Operating Officer 1961-, Chief Exec. Officer 1970-; Chair. 1974-; Chair. Avco Broadcasting Corpn. 1964; Dir. Avco Delta, Lehman Corpn., etc; mem. Defense Advisory Council 1961, Advisory Cttee. on Finances, Nat. Capital Transportation Agency; Trustee, Nat. Safety Council. *Address:* 1275 King Street, Greenwich, Conn. 06830 (Office); 1175 Muirlands Drive, La Jolla, Calif. 92037, U.S.A. (Home).

KERR, James W., B.SC.; Canadian engineer and business executive; b. 11 March 1914, Hamilton, Ont.; s. of George Robert and Helen Robertson (Bews) Kerr; m. Ruth Eleanor Marrs 1940; one s. one d.; ed. public school, Hamilton, Univ. of Toronto; various positions with Canadian Westinghouse Co. Ltd., Hamilton, Ont., Vice-Pres. and Gen. Man. Apparatus Products Group 1956; Pres. and Chief Exec. Officer, TransCanada PipeLines 1958, Chair. of Board and Pres. 1961, Chair. and Chief Exec. Officer 1968-; Pres. and Dir. Alberta Inter-Field Gas Lines Ltd., Int. PipeLine Eng. Ltd., Int. Pipeline Services (Eastern) Ltd., TransCan Holdings Ltd., TransCanada Petroleums (1974) Ltd., Western Pipe Lines; fmr. Pres. Board of Trade of Metropolitan Toronto; Pres. Int. Gas Union; Dir. Canadian Imperial Bank of Commerce, Algoma Steel Corpn. Manufacturers Life Insurance Co., Int. Minerals and Chemical Corpn. (Canada) Ltd., Bell Canada, Great Lakes Gas Transmission Co., Lehndorff Corpn., McMaster Univ. Medical Centre Foundation; Vice-Pres. Board of Govs. and Trustee, Queen Elizabeth Hospital, Toronto; mem. Board of Govs. Ont. Research Foundation; fmr. Pres. Canadian Gas Assn.; mem. Nat. Advisory Cttee. on Petroleum; mem. Eng. Inst. of Canada; mem. Assn. of Professional Engineers of Ontario; fmr. Dir. Nat. Council on Business Issues; Dir. American Gas Assn.; Govt. of Canada Centennial Medal 1967; American Acad. of Achievement Award 1975; Julian C. Smith Medal 1976; Queen's Silver Jubilee Medal 1977; Hon. Fellow, Inst. of Gas Engineers 1977-78. *Address:* TransCanada PipeLines, P.O. Box 54, Commerce Court, West Toronto, Ontario M5L 1C2, Canada. *Telephone:* (416) 869-2580.

KERR, Jean; American writer; b. 1923; m. Walter Kerr (*q.v.*) 1943; ed. Catholic Univ. of America. *Publications:* Jenny Kissed Me (play) 1949, Touch and Go (play) 1950, King of Hearts (with Eleanor Brooke) 1954, Please Don't Eat the Daisies 1957, The Snake Has All the Lines 1960, Mary, Mary (play) 1962, Poor Richard (play) 1963, Penny Candy 1970, Finishing Touches (play) 1973, How I Got to Be Perfect 1978. *Address:* 1 Beach Avenue, Larchmont, N.Y., U.S.A.

KERR, Rt. Hon. Sir John Robert, A.K., G.C.M.G., G.C.V.O., P.C., LL.B., Q.C.; Australian lawyer and public official; b. 24 Sept. 1914, Sydney; s. of late H. Kerr; m. 1st Alison Warstead 1938 (died 1974), one s. two d.; m. 2nd Anne Robson 1975; ed. Fort St. Boys' High School, Sydney Univ.; admitted to New South Wales Bar 1938; war service 1939-46, Col. 1945-46; Principal, Australian School of Pacific Admin. 1946; Organizing Sec. South Pacific Comm. 1946-47; Queen's Council (N.S.W.) 1953; mem. N.S.W. Bar Council 1960-64; Vice-Pres. N.S.W. Bar Assn. 1962-63, Pres. 1964; Vice-Pres. Law Council of Australia 1962-64, Pres. 1964-66; Pres. N.S.W. Marriage Guidance Council 1961-62, Industrial Relations Soc. of Australia 1964-66, Law Assn. for Asia and Western Pacific 1966-70; Deputy Pres. Trades Practices Tribunal 1966-72, Copyright Tribunal 1969-72; presided at Third Commonwealth and Empire Law Conf., Sydney, 1965; mem. Medical Board of N.S.W. 1963-66, Board of the Council on New Guinea Affairs 1964-71; Judge of Commonwealth Industrial Court and Judge of Supreme Court of A.C.T. 1966-72, Judge of Courts of Marine Inquiry 1967-72; Chief Justice, Supreme Court, N.S.W. 1972-74; Lieut.-Gov. N.S.W. 1973-74; Gov.-Gen. of Australia 1974-77; Hon. Life mem. Law Soc. of England and Wales 1965; Hon. mem. American Bar Assn. 1967; K.St.J. 1974. *Publications:* Matters For Judgement: An Autobiography 1979, papers and articles on industrial relations, New Guinea affairs, organization of legal profession, etc.

KERR, Walter, M.A., B.S.; American drama critic; b. 8 July 1913; m. Jean Collins (*q.v.* Jean Kerr) 1943; ed. Northwestern Univ.; Assoc. Prof. Catholic Univ. of America 1939-49; Drama Critic The Commonweal 1949-51, New York Herald Tribune 1951-56, then New York Times; Pres. New York Critics Circle 1955-56; Hon. LL.D. (St. Mary's, Notre Dame), Hon. D.Litt. (La Salle Univ.); Campion Award 1971, Laetare Medal 1971, Award of Nat. Inst. of Arts and Letters 1972. *Publications:* Plays: Sing Out Sweet Land 1945, Touch and Go (with Jean Kerr) 1950, Goldilocks (with Jean Kerr) 1958; also How Not To Write A Play 1955, Criticism and Censorship, Pieces at Eight (essays) 1957, The Decline of Pleasure 1962, The Theatre in Spite of Itself 1963, Tragedy and Comedy 1967, Thirty Plays Hath November 1969, God on the Gymnasium Floor 1971, The Silent Clowns 1975. *Address:* 230 West 41st Street, New York 10018, U.S.A. (Office).

KERST, Donald William, PH.D., D.SC.; American professor of physics; b. 1 Nov. 1911, Galena, Ill.; s. of Herman Samuel and Lilian (Wetz) Kerst; m. Dorothy Birkett 1940; one s. one d.; ed. Univ. of Wisconsin; Instructor in Physics, Univ. of Ill. 1938, Asst. Prof. 1940, Assoc. Prof. 1942, Prof. 1943; War Work, Los Alamos 1943-45; Tech. Dir. Midwestern Univs. Research Assn. 1953-57; with John Jay Hopkins Lab. for Pure and Applied Science, Atomic Div., Gen. Dynamics Corpn. 1957-62; E. M. Terry Prof. of Physics, Univ. of Wis. 1962-; mem. Nat. Acad. of Sciences, American Physical Soc. (Chair. Plasma Physics Div. 1972); Dr. h.c. (Univ. São Paulo, Brazil), Hon. Dr.Sc. Lawrence Coll. 1942, Univ. Wis. 1964; Comstock Prize, Nat. Acad. of Sciences, for devt. of betatron 1945; John Scott Award 1946; John Price Wetherill Medal, Franklin Inst., for devt. of betatron 1950. *Major works:* devt. of betatron, devt. of spiral sector accelerator, thermonuclear-plasma physics. *Leisure interests:* sailing, skiing, canoeing, swimming. *Address:* Department of Physics, University of Wisconsin, Physics-Astronomy Building, 1150 University Avenue, Madison, Wis. 53706 (Office); 1506 Wood Lane, Madison, Wis. 53705, U.S.A. (Home). *Telephone:* 238-8142.

KERSTEN, Otto; German trade unionist; b. 24 Nov. 1928, Alt-Jessnitz; m.; ed. Univs. of Rostock and Berlin; joined German Social Democratic Party 1946; worked in foreign dept. of a bank in E. Berlin 1950-52; political imprisonment 1953-56; moved to Fed. Germany and worked in Cen. Fed. Bank, Frankfurt/M. 1956; Trade Union Sec. European Trade Union Secr. 1960, also Exec. Gen. Sec. Consumers' Cttee., EEC; Dir. Int. Dept., Deutscher Gewerkschaftsbund 1965; mem. Supervisory Board, Hoesch Huttenwerk AG until April 1973; has served on numerous boards, comms. and cttees., including German Foundation for Developing Countries, German Inst. for Devt. Policies, German Council of European Movement, etc.; Gen. Sec. ICFTU Jan. 1972-. *Address:* International Confederation of Free Trade Unions, rue Montagne aux Herbes Potagères 37-41, B-1000 Brussels, Belgium.

KESERÜ, Mrs. Etelka; Hungarian economist and politician; b. 26 Aug. 1925, Gyoma; ed. Univ. of Political Economy; joined Communist Party 1945; Deputy Minister of Light Industry 1967-71, Minister 1971-. *Address:* Ministry of Light Industry, Budapest II, Fö-utca 68, Hungary. *Telephone:* 154-090.

KESSEL, Joseph; French writer; b. 10 Feb. 1898; ed. Sorbonne, Paris; served French army 1914-18 war; wrote for Le Matin, Figaro and Paris Soir; joined Free French 1940; Grand Officier de la Légion

d'honneur 1977; Lauréat de l'Académie Française 1927, mem. Académie Française 1962-; Prix des Ambassadeurs 1958. *Publications:* La steppe rouge, Les captifs, Belle de jour, L'Equipage, Vent de sable, Fortune carrée, Les enfants de la chance, Le bataillon du ciel, Le tour du malheur, L'Armée des ombres, Les coeurs purs, Mermoz, La piste fauve, La vallée du rubis, Témoin parmi les hommes, Le lion, Les mains du miracle 1960, Les alcooliques anonymes 1963, Tous n'étaient pas des anges 1963, Pour l'honneur 1964, Le coup de grâce 1965, Terre d'amour et de feu 1965, Les cavaliers (novel) 1967, Les fils de l'impossible, Les Rois Aveugles 1970, Des hommes 1972, Le petit ane blanc 1973. (Died July 1979).

KESTEN, Hermann; American (b. German) writer; b. 28 Jan. 1900, Nürnberg; s. of Isaak Kesten and Ida Tisch; m. Toni (née Warowitz) Kesten 1928; ed. Erlangen, Frankfurt and Rome Univs.; Chief Ed. Gustav Kiepenheuer Verlag, Berlin 1927-33, Allert de Lange Verlag, Amsterdam 1933-40; mem. PEN Club of Fed. Repub. of Germany (Pres. 1972); Corresp. mem. Akad. der Wissenschaft und der Literatur, Mainz, Deutsche Akad. für Sprache und Dicht; Kleist Prize 1928, Nuremberg Prize 1954, Premio di Calabria 1969, Büchner Prize 1974. *Publications:* Josef Breaks Free 1927, Happy Man 1931, Ferdinand and Isabella 1936, I The King, Philip II 1938, The Children of Guernica 1939, The Twins of Nuremberg 1946 (novels), Copernicus and His World 1945, Casanova 1952 (biography), Die fremden Götter 1949, Ein Sohn des Glücks 1956, Abenteuer eines Moralisten 1961, Die Zeit der Narren 1966, Ein Mann von Sechzig Jahren 1972, (novels); Dichter im Café 1959, Meine Freunde die Poeten 1960, Filialen des Parnass 1961 (essays), Die 30 Erzählungen 1962, Deutsche Literaturim Exil 1964, Der Gerechte 1967, Die Lust am Leben (essays) 1968, Ein Optimist (essays) 1970, Revolutionäre mit Geduld (essays) 1973, Ich bin der ich bin (poems) 1974. *Leisure interests:* travelling, reading, writing. *Address:* c/o Gina Strauss, 3g 499 Fort Washington Avenue, New York, N.Y. 10033, U.S.A.; 00198 Rome, Via Brescia 29, Italy. *Telephone:* 928-3400 (New York); 8459651 (Rome).

KESWICK, Henry Neville Lindley, B.A.; British businessman; b. 29 Sept. 1938, Shanghai, China; s. of Sir William Keswick; ed. Eton and Trinity Coll., Cambridge; commissioned in Scots Guards; joined Jardine, Matheson & Co. Ltd. in Hong Kong 1961, Dir. 1967-75, Senior Man. Dir. and Chair. 1972-75, [redacted] Board 1975-; Chair. Hong Kong Land Co. Ltd., Jardine Fleming & Co. Ltd., Textile Alliance Ltd., City Hotels Ltd. (all Hong Kong) until 1975; Chair. Matheson & Co. Ltd. (London) and subsidiaries July 1975-; Proprietor, The Spectator July 1975-; Dir. British Bank of Middle East, Sun Alliance & London Assurance Ltd. 1975-, Robert Fleming Holdings Ltd. (London). *Leisure interest:* country pursuits. *Address:* Matheson & Co. Ltd., 3 Lombard Street, London, EC3V 9AQ (Office); 10 Egerton Place, London, SW3 2EF, England (Home).

KESWICK, Sir John, K.C.M.G.; British merchant banker; b. 1906; s. of late Henry Keswick; m. Clare Keswick 1940; one d.; ed. Eton and Trinity Coll., Cambridge; joined Jardine Matheson & Co. Ltd. 1929, Dir. 1937; served in Ministry of Econ. Warfare during Second World War, and in Embassy, Chungking, later becoming Political Liaison Officer on staff of Earl Mountbatten at SEAC; Jardine, Matheson & Co., Shanghai until 1950; Chair. British and Int. Chambers of Commerce, Shanghai until 1950; Man. Dir. Jardine, Matheson & Co., Hong Kong 1951-56; Dir. Matheson & Co. Ltd. (U.K.) 1956-, Chair. 1966-70; Dir. Jardine Matheson & Co. Ltd. Hong Kong 1961-; Chair. 1971-72; Vice-Pres. Sino-British Trade Council 1961; Dir. Barclays Bank Ltd., Yorkshire Bank Ltd. (Deputy Chair.), Sun Alliance and London Insurance Ltd., Mercantile Credit Co. Ltd.; Chair. China Assen.; mem. Cttee. Hong Kong Assen; mem. G.B.-China Cttee. *Address:* 3 Lombard Street, London, EC3V 9AQ (Office); 5 Chester Place, London, NW1 4NB, England, Portrack House, Holywood, Dumfries, Scotland (Home). *Telephone:* 01-487 4095, 01-935 9595.

KETELAAR, Jan Arnold Albert, PH.D.; Netherlands university professor; b. 21 April 1908, Amsterdam; s. of Albert Jans Ketelaar and L. C. M. Struycken; m. Sytske Bessem 1949; three s.; ed. Univ. of Amsterdam and California Inst. of Technology, Pasadena; Priv. doz. Chemical Crystallography, Univ. of Leiden 1936-40, Lecturer in Physical Chemistry 1940-41; Prof. of Physical Chemistry and Chemical Thermodynamics, Univ. of Amsterdam 1941-60; Visiting Prof. of Chemistry, Brown Univ., Providence, R.I. 1958-59; Prof. of Electrochemistry, Univ. of Amsterdam 1960-68; mem. Royal Netherlands Acad. of Sciences. *Publications:* Monomorphe overgangen in de kristalstructuren van zilverkwikjodide, natriumnitraat [redacted] aluminium fluoride 1933, De Chemische Binding 1947, 1952 and 1966, Physische Scheikunde 1950, Chemical Constitution 1953, 1958, Liaisons et propriétés chimiques 1960, Chemische Konstitution 1964. *Leisure interest:* gardening. *Address:* Markeloseweg 91, 7461 PB Rÿssen, Netherlands. *Telephone:* 05480-2841.

KETY, Seymour S., M.D.; American professor of psychiatric research; b. 25 Aug. 1915, Philadelphia; s. of Louis and Ethel Kety; m. Josephine Gross 1940; one s. one d.; ed. Univ. of Pennsylvania, post-doctoral Harvard Medical School and Massachusetts General Hospital. Instructor, Asst. Prof., Univ. of Pa. Medical School 1943-48; Prof. of Clinical Physiology, Univ. of Pa. 1948-51; Scientific Dir., Nat. Insts. of Mental Health and Neurological Diseases 1951-56, Chief, Lab. of Clinical Sciences 1956-61, 1962-67; Henry Phipps Prof. of Psychiatry, Johns Hopkins School of Medicine 1961-62; Prof. of Psychiatry, Harvard Medical School 1967-; Dir. Psychiatric Research Lab., Mass. Gen. Hospital 1967-77; Dir. Labs. for Psychiatric Research, Mailman Research Center, McLean Hosp., Belmont, Mass. 1977-; Editor-in-Chief Journal of Psychiatric Research 1961-; past Pres. Assen. for Research in Nervous and Mental Disease, American Psychopathological Assen.; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Soc. of Pharmacology and Experimental Therapeutics, American Acad. Arts and Sciences; Hon. Fellow, Royal Coll. of Psychiatrists, London; Distinguished Fellow, American Psychiatric Assen.; Hon. M.A., Sc.D., M.D.; many awards including Distinguished Service Award, Dept. of Health Educ. and Welfare 1958, McAlpin Medal, Nat. Assen. for Mental Health 1972, Kovalenko Award, Nat. Acad. of Sciences 1973, William Menninger Award, American Coll. of Physicians 1976. *Publications:* Measurement of human cerebral blood flow and metabolism 1948, Theory of exchange of diffusible substances between capillaries and tissues 1951, Biochemical studies in schizophrenia 1959, The heuristic aspect of psychiatry 1961, Genetic-environmental interactions in the transmission of schizophrenia 1968, The biogenic amines in arousal, emotion and learning 1969, The Harvey Lecture: Biological Roots of Mental Illness 1975, The 52nd Henry Maudsley Lecture: The Syndrome of Schizophrenia 1979. *Leisure interests:* music, art, sailing. *Address:* Mailman Psychiatric Research Center, McLean Hospital, Belmont, Mass. 02178, U.S.A.

KEUNEMAN, Pieter Gerald Bartholomeus, M.A.; Ceylonese politician; b. 3 Oct. 1917, Colombo; s. of Arthur E. and Marjorie E. Keuneman; ed. Royal Coll., Colombo, Univ. Coll., Colombo, Pembroke Coll., Cambridge and Gray's Inn, London; worked briefly as Journalist in London; Asst. Editor, Ceylon Daily News 1940-; founder mem. and Gen. Sec. Ceylon Communist Party (now Communist Party of Sri Lanka) 1942-73, Chair. 1973-; mem. Parl. for Colombo Central 1947-; Minister of Housing and Construction 1970-77 (resigned). *Publications:* several books, pamphlets and articles on socialism and political and economic problems of Sri Lanka. *Leisure interests:* swimming, music, reading. *Address:* Central Headquarters, Communist Party of Sri Lanka, 91 Cotta Road, Colombo 8 (Office); 8/2 27th Lane, Colombo 3, Sri Lanka (Home). *Telephone:* 93855 (Communist Party H.Q.); 23620 (Home).

KEUTCHA, Jean; Cameroonian civil servant and politician; b. June 1923, Bangangté; m.; three c.; ed. Ecole Supérieure d'Agriculture de Yaoundé; Chef de Cabinet, Minister of State with Special Responsibilities 1957, subsequently Chef de Cabinet, Sec. of State with responsibility for Information, Posts and Telecommunications; Asst. to Chief of Bamiléké Region 1959; Sub-Prefect, Bafoussam 1960; Prefect of Mifi, subsequently of Menoua 1962-64; Sec. of State for Public Works 1964, subsequently Sec. of State for Rural Devt. and Sec. of State for Educ.; Minister of Foreign Affairs 1971-72, 1975-, of Agriculture 1972-75; Commdr. Order Camerounais de la Valeur, Grand Croix, Légion d'honneur, Grand Officier de l'Ordre National Gabonais, etc. *Publication:* Le guide pratique pour la taille du Caféier Arabica. *Address:* Ministère des Affaires Etrangères, Yaoundé, Cameroon.

KEYNES, Sir Geoffrey Langdon, M.A., LL.D., D.LITT., M.D., F.R.C.P., F.R.C.S., F.R.C.O.G.; British surgeon and bibliographer; b. 25 March 1887, Cambridge; s. of John Neville Keynes and Ada Florence Brown; m. Margaret Darwin 1917 (died 1974); four s. (*q.v.* Richard Keynes); ed. Rugby and Pembroke Coll., Cambridge; served in R.A.M.C. 1914-18; Chief Asst. St. Bartholomew's Hospital 1920; Hunterian Prof. Royal Coll. Surgeons 1923, 1929 and 1945; mem. Council R.C.S. 1944-52; Hon. Librarian, R.C.S.; Consulting Surgeon St. Bartholomew's Hospital, New End Thyroid Clinic and City of London Truss Society; Sir Arthur Sims Travelling Commonwealth Prof. 1956; Acting Air Vice-Marshall and Consultant in Surgery, R.A.F. 1939; Trustee Nat. Portrait Gallery 1942-66, Chair. 1958; Founder and Chair. William Blake Trust 1949; Pres. Bibliographical Soc. of London 1953-54; Harveian Orator, Royal Coll. of Physicians 1958-67; Hon. Fellow, Pembroke and Darwin Colls., Cambridge; Wilkins Lecturer, Royal Soc. 1967; James Tait Black Memorial Prize 1966, Osler Orator Royal Coll. of Physicians 1968, Gold Medal

for Services, Royal Coll. Surgeons 1969. *Publications:* Blood Transfusion 1922, Bibliography of John Donne 1914, Bibliography of William Blake 1921, Bibliography of Sir Thomas Browne 1924, Bibliography of William Harvey 1928, Bibliography of Jane Austen 1929, Bibliography of William Hazlitt 1931, Bibliography of John Evelyn 1937, Bibliography of John Ray 1950, Bibliography of Rupert Brooke 1954, Bibliography of Robert Hooke 1960, Bibliography of Siegfried Sassoon 1962, Dr. Timothie Bright 1962, Life of William Harvey 1966, Letters of Rupert Brooke (editor) 1968, Bibliography of Sir William Petty 1971, Bibliography of Bishop George Berkeley 1975, Bibliography of Bishop Henry King 1977; Editor of writings of William Blake 1925, 1927, 1957, 1966 and 1977, Sir Thomas Browne 1928, 1964, 1968, Izaak Walton 1929, Essays of William Hazlitt 1930, Poetical Works of Rupert Brooke 1946, 1947, 1960, 1970. *Address:* Lammas House, Brinkley, Newmarket, Suffolk, England. *Telephone:* Stechworth 268.

KEYNES, Richard Darwin, M.A., PH.D., SC.D., F.R.S.; British scientist; b. 14 Aug. 1919, London; s. of Sir Geoffrey Keynes (*q.v.*) and the late Margaret Elizabeth Darwin; m. Anne Pinsent Adrian; four s.; ed. Oundle School and Trinity Coll., Cambridge; Temporary Experimental Officer, Anti-Submarine Establishment and Admiralty Signals Establishment 1940-45; Demonstrator, later Lecturer in Physiology Univ. of Cambridge 1949-60; Research Fellow, Trinity Coll., Cambridge 1948-52; Fellow of Peterhouse, Cambridge, and Dir. of Studies in Medicine 1952-60; Head of Physiology Dept., Agricultural Research Council Inst. of Animal Physiology, Babraham 1960-65, Dir. of Inst. 1965-73; Prof. of Physiology, Univ. of Cambridge 1973-; Fellow of Churchill Coll., Cambridge 1961-, Fellow of Eton 1963-78; Editor The Beagle Record 1979. *Leisure interest:* sailing. *Address:* 3 Herschel Road, Cambridge, England. *Telephone:* Cambridge 53107.

KEYS, David Arnold, S.M., PH.D., D.SC., LL.D., F.R.S.C.; Canadian physicist; b. 4 Nov. 1890, Toronto; s. of Prof. David Reid and Erskine McLean Keys; m. May I. Freeze 1921; one s.; ed. Upper Canada Coll., Univs. of Munich and Toronto (Trinity Coll.), Harvard Univ. and Corpus Christi Coll., Cambridge; Fellow in Physics Univ. of Toronto 1915-16; Physicist, British Admiralty 1918-19; Austin Teaching Fellow, Harvard Univ. 1919-20; Sheldon Travelling Fellow (to Cambridge) 1920-21; Asst. Cavendish Laboratory 1921-22; Asst. Prof. McGill Univ. 1922-26, Assoc. Prof. 1926-29, Prof. 1929-41, Macdonald Prof. of Physics 1941-47; Dir. of R.C.A.F. Radio Course at McGill Univ. 1941-43, ditto Army Course 1943-44; mem. of Council, Nat. Research Council, Ottawa 1945-55; Vice-Pres. Scientific Nat. Research Council of Canada in charge of Atomic Energy Project, Chalk River 1947-55; Scientific Adviser to the Pres. Atomic Energy of Canada Ltd. 1953-65; Fellow Trinity Coll., Toronto, Doctor of Humanities, (Lawrence Inst. of Technology) 1959; Hon. mem. Engineering Inst. of Canada 1959; Hon. Fellow, Chemical Inst. of Canada 1960; 1964 Gold Medal, Canadian Assen. of Physicists; Hon. mem. Royal Canadian Inst. 1967; Fellow, American Physical Soc., American Assen. for Advancement of Science, Acad. of Sciences of Royal Soc. of Canada; Canadian Service Medal 1968; Hon. D.Sc. (McMaster, McGill, Toronto and Ottawa Univs.); LL.D. (Mount Allison and Carleton Univs.). *Publications:* Applied Geophysics (with A. S. Eve) 1929, College Physics (with others) 1925. *Leisure interests:* gardening, golf, writing.

KHADDAM, Abdel Halim; Syrian politician. Minister of the Economy and Foreign Trade 1969-70; Deputy Prime Minister and Minister of Foreign Affairs Nov. 1970-; mem. Regional Command, Baath Party May 1971-. *Address:* Ministry of Foreign Affairs, Damascus, Syria.

KHADDURI, Majid, B.A., PH.D.; Iraqi educationist and writer; b. 27 Sept. 1909, Mosul, Iraq; m. Majdia Khadduri 1942; one s. one d.; ed. American Univ. of Beirut and Univ. of Chicago; Sec.-Treas. Baghdad PEN Club; mem. American Soc. of Int. Law; Iraqi del. to the 14th Conf. of the PEN Clubs in Buenos Aires 1936; Adviser to the Iraq del. at the San Francisco Conf. 1945; Visiting Lecturer in Near Eastern History at Indiana Univ. 1947-48; fmr. Prof. Modern Middle-Eastern History at the Higher Teachers' Coll., Baghdad, Iraq 1948-49; taught Middle East politics at Chicago and Harvard Univs. 1949-50; Prof. Middle East Studies, Johns Hopkins Univ. 1950-; Dir. of Research and Education, Middle East Inst. 1950-; Visiting Middle East Prof., Columbia Univ.; mem. American Pol. Science Assen. and Pres. Shaybani Soc. of Int. Law (Washington); Order of Rafidain (Iraq). *Publications:* The Liberation of Iraq from the Mandate (in Arabic) 1935, The Law of War and Peace in Islam 1941, The Government of Iraq 1944, The System of Government in Iraq (in Arabic) 1946, Independent Iraq 1951, War and Peace in the Law of Islam 1955, Islamic Jurisprudence 1961, Modern Libya 1963, The Islamic Law of Nations 1966, Republican Iraq 1969, Political Trends in the Arab World 1970, Arab Contemporaries 1973. *Address:* 4454 Tindall Street, N.W., Washington 16, D.C., U.S.A. *Telephone:* 244-4454.

KHAIN, Viktor Yefimovich, D.SC.; Soviet professor of geology; b. 26 Feb. 1914, Baku; s. of Sophia and Yefim Khain; m. Valentina Kuzmina 1949; two s.; ed. Azerbaidzhan Industral Inst.; Geologist at oil fields, Azerbaidzhan 1935-39; Assoc. Azerbaidzhan Oil Research Inst. 1939-41; army service 1941-45; mem. CPSU 1943-; Senior Assoc., Inst. of Geology, Acad. of Sciences, Azerbaidzhan S.S.R. 1945-54; Prof. Azerbaidzhan Industrial Inst. 1949-57; Head of Dept. Museum of Earth Sciences, Moscow Univ. 1954-76; Senior Assoc., Vernadsky Inst. of Geochemistry and Analytical Chem., U.S.S.R. Acad. of Sciences 1957-71; Prof. Geology Dept., Moscow Univ. 1961-; Sec.-Gen. Subcomm. for the Tectonic Map of the World, Int. Geological Congress 1972-; Senior Assoc., Geological Inst., U.S.S.R. Acad. of Sciences 1972-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-; [redacted] Moscow Soc. of Naturalists; Foreign mem. Soc. Géologique de France; Hon. mem. Bulgarian Geological Soc.; Order of Red Banner of Labour; Hon. D.Sc. (Univ. P. et M. Curie, Paris) 1975. *Publications include:* Geotectonic Principles of Oil Prospecting 1954, The Geology of Caucasus (with E. E. Milanovsvy) 1963, General Geotectonics 1964, Regional Geotectonics, Vol. I 1971, Vol. II 1977. *Address:* Department of Geology, Moscow State University, Moscow B-234, U.S.S.R. *Telephone:* 139-11-09; 203-35-76.

KHALAF, Kadhim M., B.A.; Iraqi diplomatist; b. 20 April 1922; ed. American Univ. of Beirut and Inst. des Hautes Etudes Internationales, Paris; mem. staff Perm. Mission of Iraq to UN 1948; del. to numerous confs.; Acting Rep. for Iraq to UN 1955-58; Chargé d'Affaires, Bonn 1959-60; Dir.-Gen. UN Dept., Ministry of Foreign Affairs, Iraq 1962-64; Under-Sec. of Ministry of Foreign Affairs 1964-66, 1967-68; Perm. Rep. of Iraq to UN 1966-67; Amb. to U.K. 1968-71. *Leisure interests:* tennis, Arabic poetry. *Address:* Ministry of Foreign Affairs, Baghdad, Iraq.

KHALATBARY, Abbas Ali, PH.D.; Iranian diplomatist; b. 1912, Teheran; s. of late Nasrollah Khalatbary and Iran Ghadimy Navai; m. Manzar Asfia 1942; one s. three d.; ed. Univ. of Paris; Ministry of Foreign Affairs 1942-; Second Sec., Berne 1945; First Sec., Warsaw 1947; Acting Head, Dept. of Int. Orgs. 1950, Dir. 1951; Counsellor, Paris 1953; Dir. Third Political Div. 1957; Dir. Protocol Dept. 1958; Amb. to Poland, Minister, Romania 1959; Sec.-Gen. Cen. Treaty Org. (CENTO) 1962-68; Under-Sec. for Political Affairs 1968-70; Minister of Foreign Affairs 1970-77; Alt. mem. del. to UN Gen. Assembly 1951, mem. 13th Session; del. to Gen. Council of UN Relief, Rehabilitation Admin. (UNRRA) 1960; Head of Iranian del. to UN Gen. Assembly 1971, to Summit Islamic Conf., Lahore 1974, to Summit Islamic Conf., Jedda 1975, to Iran-Iraq Reconciliation Pact 1975, to Persian Gulf State 1976. *Leisure interests:* horse-riding, reading. (Deceased).

KHALID, Mansour, LL.D.; Sudanese diplomatist and lawyer; b. 13 Dec. 1931, Omdurman; ed. Univs. of Khartoum, Pennsylvania and Paris; began his career as an attorney, Khartoum 1957-59; Legal officer, UN, New York 1962-63; Deputy UN resident rep., Algeria 1964-65; Bureau of Relations with Member States, UNESCO, Paris 1965-69; Visiting Prof. of Int. Law, Univ. of Colo. 1968; Minister of Youth and Social Affairs, Sudan 1969-71; Chair. of del. of Sudan to UN Gen. Assembly, Special Consultant and Personal Rep. of UNESCO Dir.-Gen. for UNWRA fund-raising mission 1970; Perm. Rep. of Sudan to UN 1971; Pres. UN Security Council; Minister of Foreign Affairs 1971-75, of Educ. 1975-77, of Foreign Affairs Feb.-Sept. 1977; Asst. to Pres. for Co-ordination and Foreign Affairs 1976, Asst. to Pres. for Co-ordination 1977; mem. Political Bureau and Asst. Sec.-Gen., Sudan Socialist Union 1978; Loyal Son of Sudan and numerous foreign decorations. *Publications:* Private Law in Sudan 1970, The Nile Basin, Present and Future 1971, Solution of the Southern Problem and its African Implications 1972, The Decision-Making Process in Foreign Policy 1973, Sudan Experiment with Unity 1973, A Dialogue with the Sudanese Intellectuals. *Address:* Ministry of Foreign Affairs, Khartoum (Office); P.O. Box 281, Khartoum, Sudan (Home).

KHALID IBN ABDUL AZIZ; King of Saudi Arabia; b. 1913, Riyadh; s. of Abdul Aziz ibn Saud, founding King of Saudi Arabia; m. 1949; eight c.; ed. religious schools; appointed Asst. to his brother Prince Faisal 1934; rep. of Saudi Arabia to various int. confs.; Vice Pres. Council of Ministers 1962-75; became Crown Prince 1965; succeeded to the throne on death of his brother 25 March 1975; Pres. Council of Ministers March 1975-, Minister of Foreign Affairs March-Oct. 1975; UN Gold Medal for Peace 1977. *Address:* Royal Palace, Riyadh, Saudi Arabia.

KHALIDI, Ismail Raghib, B.A., M.A., PH.D.; Saudi Arabian United Nations official; b. 13 Nov. 1916; ed. St. George's School and Govt. Arab Coll., Jerusalem, American Univ. of Beirut, Michigan Univ. and Columbia Univ.; Asst. Script Editor, Radio Arabic Desk, U.S. Office of War Information, New York 1942-44; Sec.-Gen., Inst. of Arab-American Affairs, New York 1944-47; New York Corresp. for Al Misri (Cairo daily) 1946-47; Assoc. Dir. Asia Inst. for Arabic Studies, New York 1947-48; Adviser to Saudi Arabian del., UN 1949; [redacted] UN Secretariat 1949-, UN Mission to Libya 1950-52, UN Observer, British N. Cameroons 1960-61; Senior Political Affairs Officer, UN Security Council Affairs Div. 1955-; Principal Sec. UN Comm. for Unification and Rehabilitation of Korea (UNCURK) 1962-65. *Publications:* Constitutional Development in Libya 1956. *Address:* 121 Lorraine Avenue, Mount Vernon, N.Y. 10553, U.S.A.

KHALIFA BIN HAMAD AL-THANI, Sheikh (see Thani, Sheikh Khalifa bin Hamad al-).

KHALIFA, Sheikh Hamed bin Isa al-; Heir Apparent to His Highness the Amir of Bahrain; b. 28 Jan. 1950; ed. Secondary School, Manama, Applegarth Coll., Godalming, Mons Officer Cadet School, Aldershot, England, and U.S. Army Command and Gen. Staff Coll., Fort Leavenworth, Kansas, U.S.A. Founder, Commdr. Bahrain Defence Force, Head Defence Dept., Govt. of Bahrain 1968-; mem. State Admin. Council 1970-71; Minister of State for Defence 1971-; awarded several foreign decorations. *Address:* Private Office of the Heir Apparent, Court of the Amir, Rifa'a Palace, Manama, Bahrain.

KHALIFA, H.H. Sheikh Isa bin Sulman al-; Ruler of the State of Bahrain; b. 3 July 1933; appointed heir-apparent by his father, H.H. Sheikh Sulman bin Hamad al-Khalifah 1958, succeeded as Ruler on the death of his father Nov. 1961; took title of Amir Aug. 1971; Hon. K.C.M.G. *Address:* Rifa'a Palace, Manama, Bahrain.

KHALIFA, Sheikh Khalifa bin Sulman al-; Bahrain politician; b.1935; son of the late Sheikh Sulman and brother of the ruler, Sheikh Isa; Dir. of Finance and Pres. of Electricity Board 1961; Pres. Council of Admin. 1966-70; Pres. State Council 1970-73, Prime Minister 1973-. *Address:* Office of the Prime Minister, Manama, Bahrain.

KHALIL, Mohamed Kamal El-Din; Egyptian diplomatist; fmrly. Dir. of Research Dept., U.A.R. Ministry of Foreign Affairs; Chargé d'affaires, London 1960-61; Dir. North American Dept., U.A.R., Ministry of Foreign Affairs 1961-64; Amb. to Jordon 1964-66. to Sudan 1966-71; Under-Sec. of State for Foreign Affairs 1971-74; Amb. to Belgium 1974-, also to Luxembourg and EEC. *Publications:* The Arab States and the Arab League (2 vols.) 1962. *Address:* Egyptian Embassy, 2 ave. Victoria, 1050 Brussels, Belgium; 1103 Sh. El-Nil, Garden City, Cairo, Egypt.

KHALIL, Mustafa, D.ENG.; Egyptian politician; ed. Univ. of Illinois. Minister of Communications 1956-65; Deputy Prime Minister 1964-66; Minister of Industry and Electricity Nov. 1965-Sept. 1966; Professor of Law, Univ. of Cairo 1966; Prime Minister of Egypt Oct.1978-, also Minister of Foreign Affairs Feb. 1979-; fmr. Gen. Sec., Arab Socialist Union. *Leisure interest:* music. *Address:* Office of the Prime Minister, Cairo, Egypt.

KHAMA, Sir Seretse, K.B.E., B.A., M.P.; Botswana politician and farmer; b. 1 July 1921; m. Ruth Williams 1948; four c.; ed. Fort Hare Univ., Witwatersrand Univ., South Africa, Balliol Coll., Oxford; legal studies, London; son of Sekgoma 11 (d. 1925), Chief of Bamangwato Tribe, Bechuanaland Protectorate; his uncle, Tshekedi Khama, Regent of Bamangwato Tribe in Seretse Khama's minority 1926-50; dispute over Chieftancy of Bamangwato Tribe resulted in Seretse Khama's banishment 1950; returned to Bechuanaland and renounced all claim to Chieftancy 1956; Pres. Bechuanaland Democratic Party; mem. Legis. Council and Executive Council 1961-65; mem. Legis. Assembly and Prime Minister of Bechuanaland 1965-66; mem. of Parl. and Pres. of the Republic of Botswana 1966-; Hon. LL.D., Hon. Ph.D; Nansen Medal 1978. *Address:* Private Bag 001, Gaborone, Botswana.

KHAMMAO, H.R.H. Prince; Laotian diplomatist; b. 23 Sept. 1911, Luang Prabang; s. of Sisavang Vong, King of Laos; m. Princess Khamla ed. Lycée Albert Sarraut, Hanoi and Univ. de Montpellier. Sec.-Gen. of the Royal Palace 1941-42; Chief, Luang Prabang Province 1948-51; King's Attorney, French Union, Vientiane 1951-52; High Rep. of King of Laos to Pres. of Union, Paris 1952-56; Amb. to Japan 1956-58, to U.K. 1959-62, 1967-71; Sec.-Gen. Royal Palace 1962-67; Perm. Rep. to UN 1971-72; fmr. Pres. King's Council.

KHAN, Vice-Admiral Afzal Rahman; retd. Pakistani naval officer; b. 20 March 1921, Kala Afghanan; s. of Abdur Rahman Khan and Aziz Bibi Khan; m. Hameeda Khan 1944; one s. two d.; ed. Command and Staff Coll., Quetta, and Joint Services Staff Coll., U.K.; joined Royal Navy 1938, commissioned 1940; active service in Royal Navy, Second World War; later in Indian Navy, transferring to Pakistan Navy 1947; C.-in-C.-Pakistan Navy 1959-66; Minister of Defence, and for Home and Kashmir Affairs, Pakistan 1966-69. *Address:* The Anchorage, 27B South Central Avenue, Defence Housing Society, Karachi 4, Pakistan. *Telephone:* 541550 (Home).

KHAN, Akbar Ali, B.A., LL.B.; Indian lawyer and administrator; b. 20 Nov. 1899, Hyderabad; s. of Mahboob Ali Khan; m. Karamat-un-nisa Begum 1928; two s. two d.; ed. Jamia Millia, New Delhi, Aligarh Muslim Univ., Osmania (Hyderabad) and London Univs.; called to the Bar, London; joined Congress 1949; mem. Rajya Sabha 1954-72; Senior Advocate Supreme Court; Gov. of Uttar Pradesh 1972-74, of Orissa 1974-76; Pres. Maulana Abul Kalam Azad Oriental Research Inst., Osmania Univ. Graduates Assen., Econ. Soc., All-India Exhbn. Soc., Hyderabad; Vice-Pres. Hyderabad Municipal Corpn., Cen. Co-operative Union, Food Relief Assen.; mem. Exec. Cttee. All-India Co-operative Unions, exec. councils of several orgs.; Padma Bhushan 1965. *Leisure interests:* tennis, walking, travelling and reading. *Address:* Stone House, Secretariat Road, Hyderabad, Andhra Pradesh, India.

KHAN, Ali Akbar; Indian musician; b. 1922; s. of late Alauddin Khan; concert Recitals on Sarode, in India since 1936, and all over the world since 1955; Founder Ali Akbar Coll. of Music, Calcutta 1956, and Ali Akbar Coll., San Rafael, Calif.; Musical Dir. of many films and [redacted] contributions [redacted] All-India Radio; Lecture Recitals at Montreal and McGill Univs., Canada; first long-playing gramophone record introduced by Yehudi Menuhin; Pres. of India Award 1963. *Address:* 74 Broadmoor Avenue, San Anselmo, Calif. 94960, U.S.A.

KHAN, Ghulam Ishaq; Pakistani civil servant; b. 1915; m. 1950; one s. five d.; ed. Islamia Coll., Peshawar, and Punjab Univ. North-West Frontier Province (N.W.F.P.) Civil Service (India) 1940-47, Sub-Divisional Officer, Treasury Officer and Magistrate First Class 1940-44. Bursar and Sec. to Council of Management of Islamia Coll., Peshawar; Sec. to Chief Minister, N.W.P.F. 1947; Home Sec. Food and Dir. Civil Supplies to Govt. N.W.F.P. 1948; Devt. and Admin. Sec. for Agriculture, Animal Husbandry, Forests, Industries, Co-operatives and Village Aid 1949-52; Devt. Commr. and Sec. to Devt. Dept., N.W.F.P. 1953-56; Sec. for Devt. and Irrigation, Govt. of W. Pakistan 1956-58; mem. W. Pakistan Water and Power Devt. Authority 1958-61, Chair. 1961-66; mem. Land Reforms Comm. 1958-59; Sec. Finance, Govt. of Pakistan 1966-70; Cabinet Sec. Govt. of Pakistan 1970; Gov. State Bank of Pakistan 1971-75; Sec.-Gen. Ministry of Defence 1975-77; Sec.-Gen.-in-Chief (status of Fed. Minister), Adviser for Planning and Co-ordination 1977-78; Adviser to Chief Martial Law Administrator 1978-; Minister of Finance and Planning 1978-; Tamgha-i-Pakistan 1959, Sitara-i-Pakistan 1962, Halal-i-Quaid-i-Azam 1968. *Address:* Ministry of Finance and Planning, Islamabad; 2, 52nd Street, Shalimar 6/4, Islamabad, Pakistan. *Telephone:* 68709; 26050 (Home).

KHAN, Khan Abdul Qayyum; Pakistani lawyer and politician; b. 1901, Chitral; ed. Islamia Coll., Peshawar and L.S.E.; called to the Bar, Lincoln's Inn, London 1926; practised law in Peshawar; joined All India Congress Party during Civil Disobedience Movt; mem. Indian Cen. Legis. Assembly 1937; Deputy Leader, Congress Party in Legis. Assembly; joined All-Indian Muslim League 1945; [redacted] Frontier Legis. Assembly and Leader Muslim League Assembly Party 1946; political imprisonment 1947; Chief Minister, N.W. Frontier Province 1947; [redacted] Provincial Legis. Assembly 1951; Minister of Industries, Food and Agriculture, Govt. of Pakistan 1953-54; Pres. Pakistan Muslim League 1958; political imprisonment 1960, 1962; formed Quaid-i-Azam Muslim League March 1969; Pres. Pakistan Muslim League Jan. 1970; mem. Nat. Assembly Dec. 1970-; Minister for Interior and States and Frontier Regions 1971-77; Pres. All-Pakistan Jammu and Kashmir Conf. 1977. *Address:* National Assembly, Islamabad, Pakistan.

KHAN, Air Marshal Mohammed Asghar; Pakistani air force officer and politician; b. 17 Jan. 1921; ed. Imperial Defence Coll., U.K. Commdr.-in-Chief Pakistan Air Force and Mil. Adviser SEATO 1957-65; Pres. Pakistan Int. Airlines 1965-68; entered politics Nov. 1968; head and founder of Istiqlal Party March 1970; mem. Nat. Ass. March-July 1977; detained March-April, May, June-July 1977; joined Pakistan People's Party 1978. *Address:* Mutree Road, Rawalpindi, Pakistan.

KHAN, Sultan Mohammad, B.A.; Pakistani diplomatist; b. 1919; ed. Ewing Christian Coll. and Allahabad Univ.; commissioned

Indian Army 1942; Indian Political Service 1946; Pakistan Diplomatic Service 1947-; Pakistan High Comm., New Delhi 1947, Cairo and Rome 1948-50; Ministry of External Affairs, Karachi 1950-53; Embassy, Peking and Ankara 1953-57; Deputy High Commr. London 1957-59; Ministry of External Affairs, Karachi 1959-61; High Commr. in Canada 1961-66, concurrently accred. as High Commr. in Jamaica 1963-66, Trinidad and Tobago 1963-66; Amb. to Cuba 1964-66, to People's Repub. of China 1966-68; Asst. Sec. for Foreign Affairs 1969-72; Amb. to U.S.A. 1972-73, concurrently accred. to Jamaica and Venezuela 1972-73, to Mexico 1973; Amb. to Japan 1974-76. *Address:* c/o Ministry of Foreign Affairs, Islamabad, Pakistan.

KHAN, Gen. Yahya (see Yahya Khan, Gen. Agha Muhammad).

KHAN, Air Chief Marshal Zulfiqar Ali; Pakistani air force officer and government official; b. 10 Dec. 1930, Lahore; ed. Pakistan Air Force Acad., Risalpur and Pakistan Air Force Staff Coll., Karachi; commissioned in Pakistan Air Force 1950; various staff and command appointments; Dir. of Operations and Plans and Asst. Chief of Air Staff (Operations) until 1974; Chief of Air Staff (Operations) until 1974; Chief of Air Staff 1974-78; mem. Mil. Council (mil. govt. under Gen. Mohammad Zia ul-Haq, *q.v.*) 1977-78. *Address:* c/o Air Headquarters, Peshawar, Pakistan.

KHANE, Abd-El Rahman, M.D.; Algerian politician, administrator, and physician; b. 6 March 1931, Collo; m. 1955; three s. one d.; ed. Univ. of Algiers; served as officer in Nat. Liberation Army until Algerian independence 1962; Sec. of State, provisional govt. (GPRA) 1958-60; Gen. Controller Nat. Liberation Front 1960-61; Head of Finance Dept., GPRA 1961-62; Pres. Algerian-French tech. org. for exploiting wealth of Sahara sub-soil 1962-65; Pres. Electricité et Gaz d'Algérie July-Oct. 1964; mem. Board Dirs. Nat. Petroleum Research and Exploitation Co. 1965-66; Minister of Public Works and Pres. Algerian-French Industrial Co-operation Org. 1966-70; Physician, Cardiology Dept., Univ. Hosp. of Algiers 1970-73; Sec.-Gen. OPEC 1973-74; Exec. Dir. UNIDO Jan. 1975-. *Address:* 4 Bockkellergasse, 1190 Vienna, Austria; 42 Chemin B. Brahimi, El Biar, Algiers, Algeria.

KHANLARI, Parviz N., PH.D.; Iranian writer and politician; b. 1914; ed. Teheran Univ. and Univ. of Paris. Prof. of Iranian Linguistics, Teheran Univ. 1948; Editor Sokhan (literary monthly) 1943-64 and Sokhan (scientific monthly) 1962-64; Deputy Minister of Interior 1955; Minister of Educ. 1962-64; Senator 1971; Co-founder Mardom Party 1947; Gen. Sec. Imperial Foundation for Iranian Cultural Studies. *Address:* Hafez Avenue, Zomorrod Passage, P.O. Box 984, Teheran, Iran.

KHANNA, Charan Das, M.A., C.A.I.I.B., A.I.B.; Indian financial official; b. 22 March 1915, Kangra; s. of late Ram Rakha Mal; m. Mrs. Raj Khanna 1938; one s. three d.; ed. Punjab Univ.; worked in various supervisory capacities in Indian and English commercial banks in India 1938-48; joined Industrial Finance Corpn. of India 1948, Sec. 1965-66, Gen. Man. 1960-70, fmr. Chair.; mem. Advisory Cttee. of UNIDO for co-operation among Industrial Devt. Financial Insts. 1971; Dir. Industrial Reconstruction Corpn. of India 1971, Kerala Industrial and Technical Consultancy Org. 1972; Fellow, Econ. Devt. Inst. of World Bank; Trustee, Unit Trust of India 1973-; Pochkanwala Prize, Indian Inst. of Bankers. *Publications:* several papers on banking and industrial finance. *Leisure interests:* photography, mountaineering. *Address:* Industrial Finance Corporation of India, Bank of Baroda Building, 16 Parliament Street, P.O. Box 363, New Delhi 110001, India. *Telephone:* 312440 (Office); 672832 (Home).

KHARAS, Jamshed Gustadji, B.SC.; Pakistani diplomatist; b. 28 July 1919; m.; two c.; joined Indian civil service 1942; Deputy Sec. to Ministry of Interior, Govt. of Pakistan 1951-54; Joint Sec. Ministry of Foreign Affairs 1955-57, 1959-60; attended Imperial Defence Coll., London 1958; High Commr. for Pakistan in Australia and New Zealand 1960-62; Dir.-Gen. Ministry of External Affairs, Karachi 1962-63; Amb. to Spain 1963-67 and to Holy See 1966-67; Amb. to Yugoslavia and Greece 1967-69, to Fed. Repub. of Germany 1969-72, to Italy 1975- (also accred. to Malta 1976, later to Albania). *Address:* Embassy of Pakistan, Lungotevere delle Armi 22, Rome, Italy.

KHARITON, Yuliy Borisovich; Soviet physicist and physical chemist; b. 27 Feb. 1904., Leningrad; ed. Leningrad Polytechnical Inst. Research worker, Leningrad Polytechnical Inst. 1921-27; worked in England with Lord Rutherford 1927-28; Assoc. of Inst. of Chemical Physics, U.S.S.R. Acad. of Sciences 1931-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-53, mem. 1953-; mem. CPSU 1956-; Deputy to U.S.S.R. Supreme Soviet 1954, 1958, 1962, 1966, 1970-74; Hero of Socialist Labour (three times), Order of Lenin (five times), Order of October Revolution and other decorations. *Publications:* The Problem of Chain Decay of the Basic Uranium Isotope 1939, On the Chain Decay of Uranium under the Action of Slow Neutrons 1940, The Problem of Impact Detonation 1940. *Address:* Institute of Chemical Physics, U.S.S.R. Academy of Sciences, 2b Vorobyevskoe Chaussée, Moscow, U.S.S.R.

KHARMAWAN, Byanti; Indonesian international finance official; b. 1 June 1906, Tegal, Central Java; m.; one c.; ed. School of Economics, Rotterdam; became civil servant 1949; Econ. Adviser, Ministry of Econ. Affairs and Ministry of Finance; Chief Econ. Adviser and Deputy Gov., Central Bank of Indonesia; Exec. Dir. Asian Devt. Bank 1966-68; Exec. Dir. Int. Monetary Fund (IMF) 1968-. *Publications:* Willem Kloos en du Dichtkunst and articles on literary and economic topics. *Address:* International Monetary Fund, 19th and H Streets, N.W., Washington, D.C. 20431, U.S.A.

KHATIB, Ahmed al-; Syrian politician; b. 1933, Al Suwaydaa; s. of Hassan al Khatib and Hindiya al Farra; m. Souraya al Khatib 1959; two s. one d.; fmrly. Head, Syrian Teachers Assn.; mem. Presidential Council 1965-66; Pres. of Syria 1970-71; Chair. People's Council Feb.-Dec. 1971; Pres. Fed. Ministerial Council Fed. of Arab Repubs. Jan. 1972-; mem. Ba'ath Party, elected to Leadership Cttee. May 1971. *Leisure interest:* shooting. *Address:* Federation of Arab Republics, Cairo, Egypt.

KHATIB, Mohammed Fathalla El-, B.COMM., PH.D.; Egyptian politician; b. 1 Jan. 1927, Gharbiyah; m. Amira Mohamed Khadr 1960; three d.; ed. Univs. of Cairo and Edinburgh. Dir. of Research and UN sections, Arab States Delegations Office, New York 1958-61; Lecturer in Political Science 1954-58, Reader 1961-67, Prof. of Comparative Govt., Univ. of Cairo 1967-71, Dean of Faculty of Econs. and Political Science 1968-71; Minister of Social Affairs May-Sept. 1971; Adviser to the Pres. on Home, Econ. and Social Affairs. 1971-72; Sec.-Gen. Arab Socialist Union Governorate of Cairo 1971-72; Minister of State, Chair. Council of Foreign Affairs, U.A.R. Dec. 1971. *Publications:* include Power Politics in the UN 1962, Local Government in U.A.R. 1964, Studies in the Government of China 1965, Studies in Comparative Government 1967, Introduction to Political Science 1969. *Leisure interests:* reading, music. *Address:* 11. Sh. Ibn Zinki-Zamalek, Cairo, Egypt. *Telephone:* 807240.

KHATIB, Rashad al-; Jordanian politician; b. 1909, Hebron; ed. Islamic Coll., Jerusalem. Dir. Econ. Dept., Jerusalem 1947; mem. House of Reps. 1950-54; Senator 1955-59, 1963-; Minister of Nat. Economy 1963; Minister of Cabinet Affairs. 1972-73. *Address:* The Senate, Amman, Jordan.

KHATRI, Maj.-Gen. Padma Bahadur, K.C.V.O.; Nepalese diplomatist; b. Feb. 1915., Kathmandu; s. of late Lieut.-Col. Pahalman and Ratna Kumari; m. Hari Kumari; three s. one d.: ed. in Calcutta and Tri-Chandra Coll. Kathmandu; joined Nepal Army 1935; war service 1940-46; Mil. attaché Nepalese Embassy, London 1947-49; Observer, UN Gen. Assembly 1948; Nepalese Liaison Officer to British Brig. of Gurkhas, Malaya 1950; Nepalese rep. to Non-Aligned Conf., Bandung 1955, Cairo 1964; Sec. Coronation Cttee. 1956; Chair. Nepal-China Boundary Cttee. 1960-62; Sec. for Defence, Govt. of Nepal 1962-63, Foreign Sec. 1963-64, 1972-75; Amb. to U.S.A., Argentina, Canada and Chile 1964-68, 1976-, to Mexico and Peru 1977; Perm. Rep. to UN 1964-72; fmr. Vice-Pres. UN Gen. Assembly (twice), Pres. UN Security Council (twice); Chair. UN Special del. to Security Council, Guinea 1970; accompanied the late H.M. King Mahendra on several State visits, etc.; Orders of Gorkha Dakshin Bahu I, Nepal Sripad II, Sainik Dirgha Sewa Patta, Nepal Tara I, Trisaktipatta I, Grand Cross (Fed. Repub. of Germany), Officier Légion d'honneur (France). *Address:* Royal Nepalese Embassy, 2131 Leroy Place, N.W., Washington, D.C. 20008, U.S.A.

KHIEM, Gen. Tran Thien (see Tran Thien Khiem, Gen.).

KHIEU, Samphan; Cambodian politican; b. 1932; ed. Paris Univ.; founded French-language journal, Cambodia; Deputy, Nat. Assembly in Prince Sihanouk's party, Sangkum Reastr Nyum (Popular Socialist Community); served as Sec. of State for Commerce; left Phnom-Penh to join Khmer Rouge 1967; Minister of Defence in Royal Govt. of Nat. Union of Cambodia (GRUNC) 1970-76, Deputy Prime Minister 1970-76 (in exile 1970-75, in Phnom-Penh 1975-76); mem. Politburo Nat. United Front of Cambodia (FUNC) 1970-79; C.-in-C. Khmer Rouge High Command 1973-79; Pres. of State Presidium (Head of State) 1976-79.

KHIR JOHARI, Mohamed; Malaysian politician and diplomatist; b. 29 Jan. 1932, Kedah; m.; two s. five d.; ed. Sultan Abdul Hamid Coll., Kedah. Sec. Gen. Saberkas (political body affiliated to United Malays Nat. Org.) 1946; Sec.-Gen. UMNO 1954-55, 1966-

69; played leading role in founding of UMNO-MCA-MIC alliance; mem. Parl. for Kedah Tengah 1955; fmr. Minister of Educ., of Agriculture, and Co-operatives, of Trade and Industry; Minister without Portfolio, Amb. to U.S.A. 1973-76; Pres. Afro-Asian Rural Reconstruction Org. Confs., New Delhi 1964, Nairobi 1966, Pacific Area Travel Assn. 1971-72; leader of del. to UNCTAD III, Santiago 1972; Chair. Nat. Family Planning Board, Zoological Soc., Nat. Soc. for the Deaf and several other voluntary orgs.; has attended numerous int, econ. confs.; Hon. LL.D. (Univ. of Malaya) 1966, Hon. D.Sc. & Ed. (De la Salle Coll., Manila) 1967. *Address:* c/o Ministry of Foreign Affairs, Kuala Lumpur, Malaysia.

KHITROV, Stepan Dmitriyevich; Soviet politician; b. 27 Dec. 1910, Verkhny Karachan; ed. All-Union Polytechnic Inst.; mem. CPSU 1932-; Soviet Army service 1933-35; Deputy Chief Engineer of state farm, later construction technician, then Editor of newspaper on construction, Voronezh 1935-38; Party work 1938-47; Sec., then Second Sec. Voronezh Regional Cttee. of CP 1943-59 then Chair. Exec. Cttee. of Voronezh Regional Soviet of Working People's Deputies 1959-60; Official, Cen. Cttee. CPSU 1959-60; First Sec. Voronezh Oblast Cttee. of CP 1960-67; First Sec. Voronezh Oblast Agricultural Cttee.; Minister of Agricultural Construction of U.S.S.R.,, later named Minister for Construction of Agricultural Enterprises 1967-; Cand. mem. Cen. Cttee. CPSU 1961-66, mem. 1966-; Deputy to U.S.S.R. Supreme Soviet 1962-; Order of Lenin (twice) and other decorations. *Address:* U.S.S.R. Ministry for Construction of Agricultural Enterprises, 4 Building 1, Prospekt Marxa, Moscow, U.S.S.R.

KHLEFAWI, Gen. Abdel Rahman; Syrian army officer; b. 1927, Damascus; m.; four c.; ed. schools in Damascus; entered Mil. Coll. 1949, graduated as Lieut. 1950; promoted to Maj.-Gen. 1971; attended courses abroad, especially in France and the U.S.S.R.; served in Syrian Arab Army; Gov. Deraa, Chair. of Municipality and Chief of its Police; later Gov. of Hama; Rep. of Syria, Joint Arab Command, Cairo 1965-67; Chief of Martial Court; Chief, Dept. of Officers' Affairs 1968-70; Minister of the Interior, Deputy Martial Judge 1970-71; mem. House of People 1971; Prime Minister 1971-72, 1976-78; mem. Progressive Nat. Front; elected as mem. in Regional Leadership of Socialist Arab Ba'ath Party and Chief of Econ. and Financial Bureau. *Address:* c/o Office of the Prime Minister, Damascus, Syria.

KHOKHLOV, Boris Ivanovich; Soviet ballet dancer; b. 22 Feb. 1932; ed. Bolshoi Theatre Ballet School; joined Bolshoi Theatre Ballet Company 1951; Honoured Artist of R.S.F.S.R. Chief roles include: Prince Desire (Sleeping Beauty), Siegfried (Swan Lake), the Prince (Cinderella), the Poet (Chopiniana), Basil (Don Quixote), Albert (Giselle). Vatshar (Bakhchisarai Fountain). *Address:* State Academic Bolshoi Theatre of U.S.S.R., 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

KHOLI, Hassan Sabri el-; Egyptian diplomatist; b. 25 Feb. 1922, Tanta, Egypt; s. of Abdel Aziz Kholi and Saddika Kholi; m. 1st Amina Kholi 1946; m. 2nd Fatima Kholi 1971; three s. one d.; ed. Univ. of Cairo, Military and Staff Colls.; fought in Palestine War 1948; Prof., Senior Officer Studies Inst.; opened Infantry School, Syria 1957; Dir. Office for Palestine at the Presidency, Office for Public Affairs; Personal Rep. of the Pres. 1964-; has represented Egypt at UN, Arab League and Arab Summit Confs., UNICEF Rep. in Arab Countries 1975-76; Chief Mediator Arab League in Lebanon Crisis 1976-77; Pres. Rowing Fed. 1970-, Egyptian Soc. for the Mentally Handicapped, Egyptian Assn. for the Welfare of the Disabled and the Handicapped. *Publications:* The Palestine Case, Sinai, The Policy of Imperialism and Zionism towards Palestine during the First Half of the Twentieth Century, and several research papers on Palestine. *Address:* The Presidency, Cairo; 50 Khalifa Mamoun Street, Cairo, Egypt. *Telephone:* 601 601.

KHOMEINI, Ayatollah Ruhollah; Iranian religious leader; b. in town of Khomein. Religious teacher in theological school, Qum; arrested in Qum after riots over Shah's land reforms June-Aug. 1963; in exile, Najaf, Iraq 1963-78, Neauphe-le-Château, France Oct. 1978-Feb. 1979; while in exile aimed to create [redacted] Islamic Republic and from France [redacted] the most powerful influence on the revolution which toppled the Shah of Iran; returned to Iran Feb. 1979; appointed Government of Mehdi Bazargan (*q.v.*) after collapse of the Bakhtiar Government; returned to theological seminary, Qum March 1979. *Publications:* The Government of Theologians (lectures whilst in exile) and numerous religious and political books and tracts. *Address:* Qum Theological Seminary, Qum, Iran.

KHORANA, Har Gobind, PH.D., M.SC.; Indian-born scientist; b. 1922, Raipur; m. Esther Elizabeth Sibler 1952; one s. two d.; ed. Punjab Univ.; began career [redacted] organic chemist; worked with Sir Alexander Todd on building nucleotides, Cambridge 1950-52; later worked with Nat. Research Inst., Canada, until 1960; Prof. and Co-Dir. Inst. of Enzyme Chem., Univ. of Wis. 1960-64, Conrad A. Elvehjem Prof. in Life Sciences 1964-70; Alfred P. Sloan Prof. M.I.T. Sept. 1970-; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Chicago, Liverpool, Delhi), Hon. LL.D. (Simon Fraser Univ.) 1969; Nobel Prize for Medicine and Physiology (with Holley and Nirenberg) for interpretation of genetic code and its function in protein synthesis 1968 Louisa Gross Horwitz Prize for Biochem. 1968, American Chem. Soc. Award for creative work in Synthetic Chem. 1968, Lasker Foundation Award 1968, American Acad. of Achievement Award 1971. *Leisure interests:* music, hiking. *Address:* Departments of Biology and Chemistry, Massachusetts Institute of Technology, Cambridge, Mass. 02139. U.S.A.

KHOSHKISH, Youssof; Iranian banker; b. 1906, Teheran; ed. Univs. of Teheran and Paris. Bank Melli Iran 1934-39, 1961-, Asst. Man. Org. Dept. 1936-38, Man. Supply Dept. 1938-39; Govt. Rep. for Financial Affairs in Europe, Ministry of Finance, 1939-40; financial del. of Indian Govt. in India 1940-44; Vice-Pres. Bank Sepah 1945-61; Pres. Bank Melli Iran 1961-77; Gov. Bank Markazi Iran 1977-79.

KHOSLA, Dr. Ajudhia Nath; Indian public servant, engineer, educationist and administrator; b. 11 Dec. 1892, Jullundur City, Punjab; s. of late Shri Ralla Ram Khosla and Shrimati Karam Devi Khosla; m. Shrimati Sushilavati 1910 (died 1966); one s. six d.; ed. D.A.V. Coll. Lahore and Thomson Coll. of Engineering, Roorkee. Chair. Cen. Water and Power Comm. 1945-53; Founder Pres. Int. Comm. on Drainage and Irrigation 1950, Hon. Pres. 1954-; Vice-Pres. World Power Conf. Int. Comm. on Dams, Int. Assn. for Hydraulic Research; Vice-Chancellor Roorkee Univ. 1954-59; mem. Rajya Sabha (Parl.) 1958-59, Planning Comm. 1959-62; Gov. of Orissa 1962-68; Pres. Inst. of Engineers 1949-50, Cen. Board of Irrigation and Power 1946-48, 1951-, of Geophysics (India) 1950-53, Nat. Inst. of Sciences 1961-62; Chair. Boards of Consultants for Bhakra, Beas, Sabarigiri, Ramganga, Yamuna, and Bhali-Meli projects, Chair. Ramganga Board of Consultants; Vice-Pres. D.A.V. Coll. Man. Comm., New Delhi; Life mem. American Soc. of Civil Engineers, American Soc. Gen. Engineers; Hon. Life mem. Inst. of Engineers (India); Fellow, Indian Nat. Science Acad.; Hon. degrees from various Univs.; awarded Shanti Swaropp Bhatnagar Medal, Indian Nat. Science Acad. 1976, Memento of The Alumni Assn., Univ. of Roorkee 1976, Padma Vibhusan. *Publications:* Design of Weirs on Permeable Foundations, Silting of Reservoirs, Rainfall and Runoff, Pressure Observations under Dams. *Leisure interests:* social service in the field of educ. and econ. uplift of backward people of Orissa. *Address:* 15 Jangpura-B, Mathura Road, New Delhi 14, India. *Telephone:* 697168 New Delhi.

KHOSRAVANI, Attaollah; Iranian politician; b. 21 March 1919, Teheran; s. of Mohammad Hachem and Mahramat Khosravani; m. Boizard de Guise (divorced); one s.; ed. Univ. of Teheran, Univ. of Paris; fmr. Labour Attaché, France; fmr. Govt. Supervisor to Workers Social Insurance Org., later Head; Founder and Dir. newspaper Afkare Iran; fmr. Under-Sec. (Admin.) Ministry of Labour and Under-Sec. (Parl.), Ministry of Labour; Sec.-Gen. Iran Novin Party 1965; Minister of Labour and Social Affairs 1961-68, of the Interior 1968; Chair. Board of Inspectorate, Nat. Iranian Oil Co. 1969-79; Chair. Board of Iranian Bank 1977-79, Order of Homayoun (twice). *Leisure interests:* photography, golf, stamps, coins.

KHOSROVANI, Khosro, PH.D.; Iranian diplomatist; b. 16 June 1914, Mahalat; s. of Mohamad Hashem; m. Karimi Zand 1943; one s. [redacted] d.; ed. Iran and England; fmr. Geologist, Dept. of Mines; Foreign Service, served Ministry of Foreign Affairs, UN, Washington; later Under-Sec. Ministry of Nat. Econ.; Consul-Gen. of Iran in Hamburg; Under-Sec. Ministry of Foreign Affairs for Econ. Matters 1960; mem. Supreme Political Council 1961; Amb. to Turkey 1963-65, to U.S.A. 1965-67; del. to Gen. Assembly UN 1963; Man. Dir. Foreign Transaction Co. 1959; Chair. Board of Inspectorate, Nat. Iranian Oil Co. 1963; Pres. of Policy Board, Foreign Ministry 1970; Amb. to Egypt 1971-76; Order of Homayoun. *Leisure interests:* reading, bridge.

KHRENNIKOV, Tikhon Nikolayevich; Soviet composer; b. 10 June 1913, Elets, Lipetsk region; s. of Nikolay Khrennikov and Varvara Kharlamova; m. Klara Arnoldovna Vax (Khrennikova) 1936; one d.; ed. Moscow Conservatoire. Gen. Sec. Soviet Composers' Union 1948-57, First Sec. 1957-; Deputy to U.S.S.R. Supreme Soviet 1962-; mem. Cttee. U.S.S.R. Parl. Group; mem. Cen. Auditing Comm., CPSU 1961-; mem. CPSU 1947-; State Prize 1942, 1946, 1951, 1967, People's Artist of the R.S.F.S.R. 1955, of the U.S.S.R. 1963; Order of Lenin 1963, Red Banner of Labour

1967, Lenin Prize 1973. *Principal compositions:* Two Piano Concertos 1933, 1971, Five Pieces for Piano 1933, First Symphony 1935, Three Pieces for Piano 1935, Suite for Orchestra from Music for Much Ado About Nothing, In the Storm (Opera) 1939, Second Symphony 1941, incidental music for play Long Ago 1942, Frol Skobeyev (Opera) 1950, Mother (Opera) 1956, Concerto for Violin and Orchestra 1959, A Hundred Devils and One Girl (Operetta) 1961, Two Concertos for Violin 1964, 1976, White Nights (Operetta) 1967, Boy Giant (opera for children) 1969, Our Courtyard (ballet for children) 1970, Much Ado About Hearts (chamber opera) 1974, Third Symphony 1975, Love for Love (ballet) 1975, Concerto No. 2 for violin and orchestra 1976. *Address:* Composers' Union of the U.S.S.R., Ulitsa Nezhdanovoi 8/10, Moscow, U.S.S.R.

KHRISTIANOVICH, Sergey Alekseyevich; Soviet mechanical engineer; b. [redacted] Nov. 1908, St. Petersburg (now Leningrad); ed. Leningrad Univ. Specialist in field of hydrodynamics and gas dynamics; Corresp. mem. U.S.S.R. Acad. of Sciences 1939, mem. 1943-; Sec. Technical Sciences Section, U.S.S.R. Acad. of Sciences 1953-56, Inst. of Physical Chem. of U.S.S.R. Acad. of Sciences 1956-57, Deputy Chair. Siberian section, U.S.S.R. Acad. of Sciences 1957-61; Dir. Inst. of Theoretical and Applied Mechanics, Siberian Div. 1957-65, All-Univ. Inst. of Physico-Technical and Radio-Technical Measurement 1965-72, Inst. of Mechanical Problems, U.S.S.R. Acad. of Sciences 1972-; Hero of Socialist Labour 1969; thrice State prize laureate; Zhukovsky prize of U.S.S.R. Acad. of Sciences 1942; Order of Lenin (six times) and other decorations; mem. CPSU 1949-. *Address:* U.S.S.R. Academy of Sciences, Moscow, U.S.S.R.

KIANO, Julius Gikonyo, M.A., PH.D.; Kenyan economist and politician; b. 1 June 1926, Weithaga, Kenya; s. of Jonathan Kiano and Damari Wanjiru Kiano; m. Jane Mumbi Kiano 1966; two s. three d.; ed. Alliance High School, Kikuyu, Makerere Univ. Coll., Uganda, Antioch Coll., Stanford Univ. and Univ. of California at Berkeley, U.S.A. Lecturer in Econs. and Constitutional Law at Royal Tech. Coll., Kenya (now Univ. of Nairobi) 1956-58; elected mem. Kenya Legis. Council 1958-63; mem. Indian Govt. Cultural Scholarships Cttee. and U.S. Scholarship Cttee. 1959-62; mem. Kenya Advisory Council on Tech. Educ. and Vocational Training 1960-62; mem. Kenya Parl. 1963-; Minister of Commerce and Industry 1963-66, Minister of Labour 1966-67, Minister of Educ. 1968-70, Minister of Local Govt. 1970-73, Minister of Commerce and Industry 1973-76, Minister of Water Devt. 1976-; Chair. African Ministers of Educ. Conf. 1968, African Ministers of Industry Conf. 1975; mem. Common Market and Econ. Consultative Council of the East African Community 1973-76; Pres. UN Conf. on Desertification Aug.-Sept. 1977; mem. Freedom from Hunger Council 1976-; mem. Governing Council UNEP 1977-; mem. Exec. Cttee. Kenya African Nat. Union (KANU) 1978-, Sec. KANU Parl. Group. *Leisure interests:* social welfare. *Address:* Ministry of Water Development, Nairobi, Kenya.

KIBAKI, Mwai, B.A., B.SC.(ECON.); Kenyan politician; b. 1931, Othaya, Kenya; ed. Makerere Univ. Coll. Lecturer in Econs. at Makerere Univ. Coll. 1959-60; Nat. Exec. Officer Kenya African Nat. Union 1960-62; elected by Legis. Council as one of Kenya's nine reps. in Central Legis. Assembly of East African Common Services Org. 1962; mem. House of Reps. for Nairobi Doonholm 1963-; Parl. Sec. to Treasury 1963; Asst. Minister of Econ. Planning and Devt. 1964-66; Minister for Commerce and Industry 1966-69; Minister of Finance Dec. 1969-Nov. 1970; Minister of Finance and Econ. Planning 1970-78; Vice-Pres. of Kenya Oct. 1978-. *Address:* Office of the Vice-President, Nairobi, Kenya.

KIBALNIKOV, Aleksandr Pavlovich; Soviet sculptor; b. 22 Aug. 1912, Orekhovo village, Tsaritsyn (now Volgograd) region; ed. Saratov Art School. Exhbn. of first works 1939; designed monuments to Mayakovsky, Tretyakov, and Stalin in Moscow; works in the Tretyakov Gallery, Moscow; memorial complex (Heroic Fortress in concrete, stone and metal), Brest 1971; Chair. Moscow section, Union of Artists of R.S.F.S.R. 1963-66; mem. Soviet Acad. of Arts 1954-; State Prize for statue of Chernyshevsky 1949, 1951, Lenin Prize 1959, People's Artist of U.S.S.R. 1963; mem. CPSU 1963-. *Address:* U.S.S.R. Academy of Arts, Ulitsa Kropotkinskogo 21, Moscow, U.S.S.R.

KIBEDI, Wanume, LL.B.; Ugandan lawyer and politician; b. 3 Aug. 1941, Busesa; s. of Mr. and Mrs. E.M. Kibedi; m. Elizabeth Kibedi (née Amin) 1970; one d.; ed. Busoga Coll. and Univ. of London; articled with Waterhouse and Co., London 1961-66, admitted solicitor 1966; worked in office of Attorney-Gen., Uganda 1968; Partner, Binaisa and Co. (advocates) 1969-70; Minister of Foreign Affairs Feb. 1971-73 (resigned); del. to UN Gen. Assembly 1971. *Leisure interests:* chess, tennis, reading.

KIDD, Paul James Garland, Q.C.; Canadian business executive; b. 25 June 1913; s. of the late Rev. Charles and Mary (Youngson) Kidd; m. Elizabeth Dixon 1940; two d.; ed. Gananoque High School, Queen's Univ. and Osgoode Hall Law School, Toronto; joined Legal Dept. of Hiram Walker & Sons Ltd. (Distillers) 1936; now Senior Vice-Pres. and Dir. Hiram Walker-Gooderham & Worts Ltd., and officer and Dir. of various subsidiary companies; Dir. Corby Distilleries Ltd., Liquid Carbonic Canada Ltd. *Address:* 2072 Riverside Drive East, Walkerville, Ont. N8Y 4S5 (Office); 7080 Riverside Drive East, Windsor, Ont. N8S 1C3, Canada (Home).

KIDRON, Abraham, B.A.; Israeli diplomatist; b. 19 Nov. 1919; two d.; ed. Hebrew Univ. of Jerusalem; joined Ministry of Foreign Affairs, Jerusalem 1949-50; Attaché, Rome Embassy 1950-52; Ministry of Foreign Affairs, Jerusalem 1953-54; Consul, Cyprus 1954-56; First Sec. (Press), London Embassy 1957-59; Head of Research Dept. and Spokesman, Ministry of Foreign Affairs 1959-63; Minister, Israel Legation, Yugoslavia 1963-65; Amb. to Philippines 1965-67; Asst. Dir.-Gen. Ministry of Foreign Affairs, Jerusalem 1969-71, Deputy Dir.-Gen. 1972-73, Dir.-Gen. 1973-76; Amb. to Netherlands 1976-77, to U.K. June 1977-. *Address:* c/o Embassy of Israel, 2 Palace Green, London, W.8, England.

KIEBER, Walter, D.JUR.; Liechtenstein politician; b. 20 Feb. 1931, Feldkirch, Austria; s. of Alfons and Elisabeth Kieber; m. Selma Ritter 1959; one s. one d.; ed. Grammar School in Bregenz, Austria, Univ. of Innsbruck; lawyer in Vaduz 1955-59; entered civil service [redacted] Chief of the Govt. Legal Office 1959; Chief of Presidential Office 1965-; Sec.-Gen. of Govt. 1969, Deputy Chief of Govt. 1970-74, Chief of Govt. 1974-78, Deputy Chief of Govt. with responsibility for Economy, Transport, Justice, Youth and Sport April 1978-; Grand Cross, Liechtenstein Order of Merit, Grosses Goldenes Ehrenzeichen am Bande für Verdienste um die Republik Österreich (Austria); Progressive Citizens' Party. *Address:* Landstrasse 22, FL-9494 Schaan, Liechtenstein. *Telephone:* 2-25-29.

KIELMANSEGG, Gen. Johann Adolf, Graf von; retired Ger[redacted] army officer; b. 30 Dec. 1906, Hofgeismar; s. of the late Adolf Graf von Kielmansegg and the late Eva Graefin von Kielmansegg (née von Werner); m. Mechthild Freiin von Dincklage 1933; two s. two d.; ed. Monastic School, Rossleben. Army Service 1926, Officer 1930; War Acad., Berlin 1937-39; Gen. Staff, 1st and 6th Panzer Div. 1939-42; OKH (High Command of the Army) 1942-44, C.O. Infantry Regiment III 1944-45; journalistic activities 1945-50; Defence Ministry 1950-55; Mil. Rep. of Fed. Repub. of Germany to SHAPE, Paris 1955-58; Second-in-Command, 5th Panzer Div. 1959-60, later C.O. 10th Panzer Div.; Defence Ministry, Bonn until 1963, promoted to rank of Gen. 1963; C.-in-C. Allied Land Forces, Cen. Europe 1963-66; C.-in.-C. Allied Forces, Cen. Europe 1966-68; now writer on politico-military matters; mem. Int. Inst. for Strategic Studies (London), and German Assen. for Foreign Affairs; mem. U.S. Strategic Inst. Washington, D.C.; Grand Cross of the Fed. Repub. with Ribbon and Star, Commdr. Légion d'honneur Commdr. Legion of Merit. *Leisure interests:* history, political science. *Address:* 7812 Bad Krozingen, Batzenbergstr. 7, Federal Republic of Germany. *Telephone:* 07633-3352.

KIENIEWICZ, Stefan, PH.D.; Polish historian; b. 20 Sept. 1907, Dereszewicze, U.S.S.R.; ed. Poznań Univ. Docent 1946-49, Assoc. Prof. 1949-58, Prof. Warsaw Univ. 1958-; Corresp. mem. Polish Acad. of Sciences (PAN) 1965-69, mem. 1969-, Chair. Cttee. of Historical Sciences 1969-71, 1975-, mem. 1971-75, mem. Scientific Council of PAN History Inst.; Head of Contemporary Polish History Group, Warsaw Univ.; Ed. Przeglad Historyczny 1952-; mem. Polish Historical Soc.; Knight's Cross, Order of Polonia Restituta 1954, Officer's Cross 1958, Commdr.'s Cross 1973, State Prize 1955, 1964, Minister of Nat. Defence Prize 1972, State Prize (1st Class) 1978. *Publications:* Społeczeństwo polskie w powstaniu poznańskim 1848, Ruch chłopski w Galicji 1846, Sprawa włosciańska w Powstaniu Styczniowym, Między ugodą [redacted] rewolucją, Andrzej Zamoyski w latach 1861-1862, Historia Polski 1795-1864, Historia Polski 1795-1918 1968, Powstanie Styczniowe 1972, Historia Polski 1976, Warszawa w Latach 1795-1918 1977, Zarys dziejów Szkoły Głównej Warszawskiej (in preparation). *Address:* Ul. Wiktorska 83/87 m. 32, 02-582 Warsaw, Poland.

KIERANS, Eric William; Canadian economist and politician; b. 2 Feb. 1914, Montreal; s. of Hugh Kierans and Lena (née Schmidt); m. Teresa Catherine Whelan 1938; one s. one d.; ed. Loyola Coll., Montreal, and McGill Univ., Montreal. Prof. of Commerce and Finance 1953-60; Dir. McGill School of Commerce 1953-60; Pres. Montreal and Canadian Stock Exchanges 1960-63; Minister of Revenue, Quebec 1963-65; Minister of Health, Quebec 1965-66; Pres. Quebec Liberal Fed. 1966-68; Postmaster-Gen. and Minister responsible for Dept. of Communications 1968-69; Minister of

Communications 1969-72; Liberal. *Publications:* Challenge of Confidence: Kierans on Canada 1967. *Address:* 5631 Queen Mary Road, Hampstead, Quebec; 200 Rideau Terrace, Ottawa, Ont., Canada.

KIESINGER, Kurt Georg; German lawyer and politician; b. 6 April 1904, Ebingen, Württemberg; s. of Christian Kiesinger and Dominika Grimm; m. Marie-Luise Schneider 1932; one s. one d.; ed. Tübingen and Berlin Univs. Lawyer, Berlin 1934-45, Tübingen 1948; mem. Bundestag 1949-58, 1969-, Chair. Joint Comm. 1949-57, Cttee. for Foreign Affairs 1954-58; mem. Consultative Assembly Council of Europe 1950-58, Vice-Pres. 1955-58, Chair. Christian Democratic Group 1957-58; mem. WEU Assembly 1956-58; Minister-Pres., Baden-Württemberg 1958-66; Pres. Bundesrat 1962-63; Fed. Chancellor 1966-69; Chair. Christian Democratic Union 1967-71, now Hon. Chair.; Dr.Iur. h.c. (Cologne, Coimbra, Maryland and New Delhi Univs); Grand Cross Order of Merit of Fed. Repub. of Germany, Order of Merit of Italian Repub., Grand Officer de la Légion d'honneur, Palmes académiques, Bavarian Order of Merit and several other foreign decorations; Christian Democratic Union. *Address:* Bundeshaus, 53 Bonn 74 Tübingen, Engelfriedshalde 48, Federal Republic of Germany (Home). *Telephone:* Bonn 161.

KIHARA, Hitoshi; Japanese scientist; b. 21 Oct. 1893, Tokyo; m. Kazukó Nagashima 1925; one s. three d.; ed. Hokkaido Univ.; fmr. Prof., Kyoto Univ.; has specialized in genetics and applied botany; studied celular heredity of wheat, Germany 1929; del. Int. Congress of Genetics, Stockholm 1948; Dir. Kihara Inst. for Biological Research 1942; fmr. Dir. Nat. Inst. of Genetics; mem. Japanese Acad.; Foreign Assoc. American Acad. of Arts and Sciences, Nat. Acad. of Sciences (U.S.A.). *Address:* c/o Kihara Institute for Biological Research, Mutsukawa, Yokohama; 122-21 Mutsukawa, 3-chome, Minami-ku, Yokohama (Home). *Telephone:* (045) 741-5081 (Kihara Institute).

KIJIMA, Torazo, B.ECONS.; Japanese business executive; b. 18 Dec. 1901; ed. Tokyo Imperial Univ. (now Univ. of Tokyo). Dir. Japanese Nat. Railways 1950-52; mem. House of Councillors 1953-59; Pres. Hinomaru Ceramic Industry Co. Ltd. 1953-, Aito Vehicles Industries Co. Ltd.; Chair. Board of Dirs. Nippon Express Co. Ltd. 1968-; Second Grand Order of Sacred Treasure (Japan) 1972, Commdr., Grand Order (Madagascar) 1973. *Address:* 3-12-9, Soto-Kanda, Chiyoda-ku, Tokyo (Office); 3-42-17, Wakamiya, Nakano-ku, Tokyo, Japan (Home).

KIKHIA, Mansur Rashid; Libyan lawyer and diplomatist; b. 1 Dec. 1931, Benghazi; ed. Cairo and Paris Univs.; joined Diplomatic Service 1957; Asst. in Nationality and Consular Affairs Section, Ministry of Foreign Affairs 1957, Head, Treaties and Int. Confs. Section 1958-60, 1962-65; Second Sec. for Consular and Cultural Affairs, Paris 1960-62; Chargé d'affaires, Paris 1962, Algiers 1963; Consul-Gen., Geneva 1965-67; mem. Perm. Mission to UN 1967-69; Under-Sec. Ministry of Unity and Foreign Affairs 1969-72; Perm. Rep. to UN Jan.-July 1972, Aug. 1975-; Minister of Foreign Affairs 1972-73; private law practice in Tripoli 1973-75; mem. dels. to UN Gen. Assembly 1961, 1966-70, Chair. of del. 1970, 1972, 1975, 1976, Vice-Chair. 1977, 1978, Rep. Libyan del. UN Security Council 1976, 1977, Pres. Security Council Sept. 1976, Nov. 1977, Chair. Libyan del. Third UN Conf. Law of the Sea 1977, 1978, ad hoc comm. on drafting of int. convention against taking of hostages 1977, Chair. UN Security Council Sanctions Comm. 1977, Chair. Libyan del. to preparatory comm. for special session devoted to disarmament. 1977-78. *Address:* Permanent Mission of Libya to the United Nations, 866 United Nations Plaza, New York, N.Y. 10017, U.S.A.; 72 Baghdad Street, Tripoli, Libya (Home).

KIKI, Sir Albert Maori, K.B.E.; Papua New Guinea politician; b. 21 Sept. 1931, Orokolo, Gulf Province; ed. Fiji School of Medicine, Papua New Guinea Admin. Coll. Public Health Officer, Welfare Officer, Patrol Officer 1954-64; founded first trade union in Papua New Guinea 1962; Pres. Council of Trade Unions 1962-; land claims work with Koiari people; foundation mem. Pangu Pati 1965-, Gen. Sec. 1965-72; mem. City Council, Port Moresby 1971-73; mem. for Port Moresby Inland, House of Assembly 1972-; Minister for Lands and Environment 1972-73, for Defence, Foreign Affairs, Trade, Migration and Customs 1974-77; Deputy Prime Minister 1975-77; Chair. Interim Constitutional Comm. 1976. *Publications:* Ten Thousand Years in a Lifetime (autobiography) 1970; co-author Ho Hao (arts and culture of the Orokolo people) 1972. *Address:* Central Government Offices, Waigani; Granville Farm, 8 Mile, Port Moresby, New Guinea (Home).

KIKOIN, Isaak Konstantinovich; Soviet physicist; b. 28 March 1908, Zhagory village, Lithuania; ed. Kalinin Polytechnical Inst. Leningrad. Instructor, Higher Technical Educ. establishments, Leningrad, Sverdlovsk 1931-44; Prof. of Physics, Engineering Inst. U.S.S.R. Acad. of Sciences 1944-; Prof. Moscow State Univ. 1955-; Corresp. mem. U.S.S.R. Acad. of Sciences 1943-53, [redacted] 1953-; State Prize 1942, 1949, 1951, 1953, 1967, Lenin Prize 1959, Order of Lenin (five times) and other decorations. *Publications:* co-author The Physics of Metals 1934, Holl's Coefficient and Electrical Resistance of Ferrous Magnetics 1964, Magnetic Influence on Resistance of Ferrous Magnetics 1964. *Address:* Physical and Engineering Institute, Kashirskoe chaussée 1, Moscow, U.S.S.R.

KIKUTAKE, Kiyonori, B.A., F.A.I.A.; Japanese architect; b. 1 April 1928, Kurume; s. of Kiyoshi and Masue Kikutake; m. Norie Sasaki 1953; one s. two d.; ed. Waseda Univ.; est. Kiyonori Kikutake & Assocs. (Architects) 1953, now Rep. Dir.; Prof. Dept. of Architecture, Waseda Univ. 1959-; mem. Board, Architectural Inst. of Japan 1962-; Visiting Prof. Univ. of Hawaii 1971; del. to UNESCO Int. Conf., Zürich 1970; Hon. Fellow, American Inst. of Architects 1971. *Major works include:* Shimane Prefectural Museum 1958, Sky House 1958, Admin. Building for Izumo Shrine, Tatebayashi City Hall 1963, Hotel Tokoen, Yonago-City, Miyakonojo City Hall, Pacific Hotel, Chigasaki 1966, Iwate Prefectural Library 1967, Shimane Prefectural Library, Hagi Civic Centre 1968, Kurume Civic Centre 1969, Expo Tower for Expo 70, Osaka 1970, Pasadena Heights (Tiered [redacted] housing) 1974, Aquapolis (floating module for ocean) Ocean Expo 75 1975, Hagi City Hall 1975, Redevelopment of Yamaga city centre 1975, Tsukuba Academic New Town, Pedestrian Deck Network and the Symbol Tower 1976, Otsu Shopping Centre 1976; now Exec. Dir. Tokyo YMCA Inst. of Design; several awards including Ministry of Educ. Arts Award 1964, Architectural Inst. of Japan Award 1964, Geijutsu Sensho Prize 1964, Cultural Merits of Kurume City 1975, Auguste Perret Award UIA 1978. *Publications:* Metabolism 1960 1960, Taisha Kenchi ku-ron (Metabolic Architecture) 1968, Ningen-no-Kenchiku (Human Architecture) 1970, Ningen-no-Toshi (A Human City) 1970, Essence of Architecture 1973, Floating City 1973, Kiyonori Kikutake—Works and Methods 1956-70 1973, Community and Civilization 1978, Kiyonori Kikutake-Concepts and Planning 1978, Human Environments 1978. *Leisure interests:* swimming, photography, reading, travel. *Address:* 1-11-15 Otsuka, Bunkyo-ku, Tokyo, Japan. *Telephone:* 03-941-9184; 03-941-0830.

KILBRANDON, Baron (Life Peer), cr. 1971, of Kilbrandon, Argyll; **Charles James Dalrymple Shaw,** P.C., LL.D., D.SC.; British judge; b. 15 Aug. 1906, Ayrshire; s. of James E. and Gladys E. Shaw; m. Ruth C. Grant 1937; two s. three d.; ed. Charterhouse School, Balliol Coll., Oxford and Univ. of Edinburgh; Scottish Bar 1932; K.C. 1949; Sheriff of Ayr and Bute 1954, of Perth and Angus 1957; Dean of Faculty of Advocates 1957; Senator, Coll. of Justice 1959-71; Chair. Scottish Law Comm. 1965-71; Lord of Appeal in Ordinary 1971-76; Chair. Royal Comm. on Constitution 1972-73; Hon. Fellow, Balliol Coll., Oxford, and Visitor of the Coll.; Hon. Bencher, Gray's Inn. *Publication:* Other People's Law (Hamlyn Lectures) 1966. *Address:* Kilbrandon House, Balvicar, by Oban, Argyll, Scotland. *Telephone:* Balvicar 239.

KILLANIN, 3rd Baron, cr. 1900; **Rt. Hon. Michael Morris,** M.B.E., T.D., M.A., M.R.I.A.; Irish film producer and company director; b. 30 July 1914, London; s. of Lieut.-Col. Hon. George H. Morris and Dora Maryan Wesley Hall; m. Sheila M. C. Dunlop, M.B.E. 1945; three s. one d.; ed. Eton Coll., Sorbonne, Paris and Magdalene Coll., Cambridge; mem. of staff, Daily Express then Daily Mail, London 1935-39, War Corresp., Daily Mail, Sino-Japanese War 1937-38, subsequently Asst. Political and Diplomatic Corresp.; served in Second World War 1939-45; Chair. Bovril (Ireland) Ltd., Chubb Group of Companies in Ireland, Ulster Investment Bank, Lombard & Ulster Banking Ltd., Coyle Hamilton Life and Pensions Ltd., Dir. of Irish Shell Ltd. 1947-, Beamish and Crawford Ltd., Ulster Bank, Gallahen (Dublin) Ltd., Northern Telecom (Ireland) Ltd. etc.; Chair. (acting) Fitzwilton; Pres. Dublin Theatre Festival 1960-70; Pres. Olympic Council of Ireland 1950-73; Vice-Pres. Int. Olympic Cttee. 1968-72, Pres. 1972-; mem. Cultural Relations Cttee. 1947-72, Irish Red Cross Soc. 1947-72; Hon. LL.D. (Nat. Univ. of Ireland) 1975, Hon. D.Litt. (New Univ. of Ulster) 1977; decorations from France, Japan, Germany, Finland, Italy, Monaco, Spain, etc. *Films include:* The Rising of the Moon, Playboy of the Western World, Gideon's Day, etc. *Publications:* Shell Guide to Ireland (with Professor Michael Duignan), Sir Godfrey Kneller, Four Days, The Olympic Games (with John Rodda); contributions to British, European and American press. *Address:* 30 Lansdowne Road, Dublin 4; St. Annins, Spiddal, Co. Galway, Ireland.

KILLEN, (Denis) James, LL.B.; Australian barrister and politician; b. 23 Nov. 1925, Dalby, Queensland; s. of James Walker Killen and Mabel E. Sheridan; m. Joyce Claire Buley 1949; three d.; ed. Brisbane Grammar School and Univ. of Queensland; mem. House of Reps. 1955-; Minister of the Navy 1969-71, of Defence

Nov. 1975-. *Leisure interests:* tennis, reading. *Address:* Commonwealth Parliament Offices, 295 Ann Street, Brisbane 4000; Parliament House, Canberra, A.C.T.; 22 Cook Street, Yeronga 4104, Australia (Home). *Telephone:* 225-2161 (Brisbane); 73-3955 (Canberra); 48-3707 (Yeronga).

KILLIAN, James Rhyne, Jr., B.S.; retd. American technologist, government official and college administrator; b. 24 July 1904, Blacksburg, S.C.; s. of James R. and Jeanette Killian; m. Elizabeth Parks; one s. one d.; ed. Duke Univ. and M.I.T.; Asst. Man. Ed. The Technology Review, M.I.T. 1926-27, Man. Ed. 1927-30 and Ed. 1930-39; Exec. Asst. to Pres. M.I.T. 1939-43, Exec. Vice-Pres. 1943-45, Vice-Pres. 1945-48, Pres. 1948-59, Chair. of Corpn. M.I.T. 1959-71, Hon. Chair. 1971-; Special Asst. to Pres. Eisenhower for Science and Technology 1957-59; Chair. President's Foreign Intelligence Advisory Board 1961-63; Dir. Polaroid Corpn. 1959-, General Motors 1959-75, American Telephone and Telegraph Co. 1963-77, Cabot Corpn. 1963-75. Corpn. for Public Broadcasting 1968-75, Ingersoll-Rand Co. 1971-76; mem. Nat. Acad. of Engineering; Trustee, A. P. Sloan Foundation 1954-77, Mt. Holyoke Coll. 1962-72, Winston Churchill Foundation of the U.S. 1960-, Boston Museum of Fine Arts 1966-; numerous hon. degrees; Officier, Légion d'honneur 1957; Hoover Medal 1963; Sylvanus Thayer Award, U.S. Mil. Acad. at W. Point, New York 1978. *Publication:* Sputnik, Scientists and Eisenhower 1977. *Address:* 77 Massachusetts Avenue, Cambridge, Mass. 02139, U.S.A. *Telephone:* (617) 253-1515.

KILLICK, Sir John Edward, K.C.M.G.; British diplomatist; b. 18 Nov. 1919, Isleworth; s. of late Edward W. J. Killick and Doris M. Stokes; m. Lynette de Preez 1949; no c.; ed. Latymer Upper School, Univ. Coll., London and Univ. of Bonn; Mil. Service 1939-46; Control Comm. for Germany 1946; entered diplomatic service 1946; Foreign Office 1946-48, Berlin, Frankfurt and Bonn 1948-51; Foreign Office 1951-53; British Embassy, Addis Ababa 1953-57; Nat. Defence Coll. of Canada 1957-58; Foreign Office 1958-61; Imperial Defence Coll. 1962; British Embassy, Washington 1963-68; Asst. Under-Sec. of State, FCO 1968-71; Amb. to U.S.S.R. 1971-73; Deputy Under-Sec. of State, FCO 1973-75; U.K. Perm. Rep. to NATO 1975-79. *Address:* c/o Foreign and Commonwealth Office, King Charles Street, London S.W.1, England.

KILLION, George Leonard; American shipping executive; b. 15 April 1901, Steamboat Springs, Colo.; s. of James Abraham Killion and Lydia Jane Harris; m. 1st Grace Harris Killion 1922 (deceased), 2nd Margaretha Rahneberg Killion 1963; one s.; ed. Univ. of Southern California and Univ. of California; Editorial Staff, West Coast Newspapers 1925-30; Public Relations Financial Consultant Safeway Stores, Oakland, Calif. 1930-35, Public Relations and Legislative Consultant 1935-39; Dir. of Finance, State of California 1940-43; Asst. to Petroleum Admin. for War, Washington 1943; Asst. to Treas. Democratic Nat. Cttee. 1944, Treas. 1945-47; Pres. American President Lines 1947-66, Consultant and Dir. 1966-; Chair. Board, Metro-Goldwyn-Mayer 1957-63, 1963-69, 1970-71, Vice-Chair. 1969-70, Dir., mem. Exec. Cttee. 1963-71; Dir. Pacific Nat. Bank 1960-69, Communications Satellite Corpn. 1962–, First Western Bank 1969-; Dir. various other companies. *Address:* 555 California Street, San Francisco, Calif. 94104 (Office); 1090 Chestnut Street, San Francisco, Calif. 94104, U.S.A. (Home). *Telephone:* 391-3666 (Office); 771-2320 (Home).

KIM, H. E. Cardinal Stephen Sou-hwan; Korean ecclesiastic; b. 8 May 1922, Taegu; ed. Sophia Univ., Tokyo, Major Seminary, Seoul, and Sociology Dept., Univ. of Munster, Germany; ordained priest 1951; Pastor of Andong, Archdiocese of Taegu 1951-53; Sec. to Archbishop of Taegu 1953-55; Pastor of Kimchon (Taegu) 1955-56; Dir. Sung-Eui Schools, Kimchon 1955-56; sociology studies, Univ. of Munster, Germany 1956-64; Editor-in-Chief Catholic Shibo (weekly) 1964-66; Bishop of Masan 1966-68; Archbishop of Seoul 1968-; cr. Cardinal 1969; Pres. Bishops' Conf. of Korea, Pres. Follow-up Cttee. for Fed. of Asian Bishops' Conf. 1971-74; Dr. h.c. (Notre Dame Univ., U.S.A.) 1977. *Leisure interests:* music, literature. *Address:* Archbishop's House, 2-Ga 1, Myong-dong, Chung-ku, Seoul, Republic of Korea. *Telephone:* 776-4083.

KIM DONG-JO; Korean diplomatist; b. 14 Aug. 1918, Busan; s. of the late Byung Woo Kim and Won Tong Kim; m. Duman Kim 1944; two s. four d.; ed. Seoul Coll. of Commerce, Kyushu Imperial Univ. Law School, Japan; Chief Sec. to Minister of Communications 1949-51, Dir. Bureau of Gen. Affairs 1951; Dir. Bureau of Political Affairs, Ministry of Foreign Affairs 1951-52, 1954-57; Counsellor, Korean Embassy, Taiwan 1952-54; Deputy Minister of Foreign Affairs 1957-59; Special Envoy to Repub. of China, Malaysia, Philippines, Thailand and Repub. of Viet-Nam 1959; private law practice 1960-63; Head del. to Asian People's Anti-Communist League, Viet-Nam 1963; Chair. Foreign Relations and Defence Cttee. 1963; Pres. Korea Trade Promotion Corpn. 1964; Amb. to Japan 1964-65, 1966-67; Amb.-at-large 1965-66, to U.S.A. 1967-73; Minister for Foreign Affairs 1973-75; Special Asst. to The Pres. for Foreign Affairs 1976-; Hon. LL.D. (Illinois Coll.) 1969. *Leisure interest:* golf. *Address:* Office of The President, Chong Wa Dae, Seoul, Republic of Korea.

KIM IL; Korean politician; mem. Presidium of Cen. Cttee. of Workers' Party of Korea; Vice-Premier, Democratic People's Repub. of Korea 1956-57, First Vice-Premier 1957-72, Premier Admin. Council 1972-76, First Vice-Pres. April 1976-. *Address:* Office of the First Vice-President, Pyongyang, Democratic People's Republic of Korea.

KIM IL SUNG, Marshal; Korean politician; b. (as Kim Song Ju) 15 April 1912, Mangyongdae, Pyongyang; s. of late Kim Jung Sook and Kang Ban Sok; m. 1st Kim Jung Sook, 2nd Kim Song Ae; formed Communist Youth League 1927, imprisoned 1929-30; joined Communist Party 1931; organized and led Korean People's Revolutionary Army in struggle against the Japanese 1932-45; founded Fatherland Restoration Asscn., elected Chair. 1936; founded Workers' Party of Korea, elected Chair. 1945; Supreme Commdr. Korean People's Army during Korean War 1950-53; proclaimed the Democratic People's Repub. of Korea 1948, Premier 1948-72, Pres. (Head of State) Dec. 1972-; designed and implemented Socialist Industrialization Programme 1957-70; Gen. Sec. Cen. Cttee. Workers' Party of Korea 1966-; Marshal, Hero of Labour, and Hero of the Democratic People's Repub. of Korea (twice), Order of Nat. Flag (1st Class) (four times), Order of Freedom and Independence (1st Class), Order of 20th Anniversary Commemoration of Democratic People's Repub. of Korea, numerous foreign decorations including Order of the Yugoslav Great Star, and Order of Lenin 1972. *Publications:* Selected Works of Kim Il Sung (17 vols.), Selections of Works of Kim Il Sung (6 vols.), etc. *Address:* Office of the President, Pyongyang, Democratic People's Republic of Korea.

KIM JONG PIL, Brig.-Gen.; Korean politician; b. 7 Jan. 1926, Puyo; m. Park Young Ok (niece of Pres. Park Chung Hee, *q.v.*); one s. one d.; ed. High School, Kongju, Seoul Nat. Univ. and Korean Military Acad.; served in Korean war; Dir. Korean Central Intelligence Agency 1961-63; mem. Nat. Assembly 1963-68, 1971-; Chair. Democratic Republican Party 1963-68; Senior Adviser to Pres. 1970; Vice-Pres. Democratic Republican Party March 1971; Prime Minister 1971-75; mem. Spanish Nat. Acad., Korean Acad.; numerous awards from Korean and foreign govts.; Hon. LL.D. (Long Island Univ., N.Y.) 1964, (Chungang Univ., Seoul) 1966, (Fairleigh Dickinson Univ.) 1968; Hon. D.Hum.Litt. (Westminster Coll., Fulton, Mo.) 1966; Hon. Ph.D. (Hongik Univ.) 1974. *Leisure interests:* painting, music. *Address:* 340-38, Sindang 4-dong, Sungdong-ku, Seoul, Republic of Korea.

KIM YONG SHIK; Korean diplomatist; b. 11 Nov. 1913, Choongmu; s. of Kim Chai Ho and Chung Ok; m. Park Kyung Hee; ed. Chu-ou Univ., Tokyo; Consul, Hong Kong 1949; Consul-Gen., Honolulu 1949; Minister, Korean Mission, Japan 1951; Minister, Korean Legation, France 1957; Minister, Korean Mission, Geneva 1959; Perm. Vice-Minister, Ministry of Foreign Affairs 1960; Amb. to U.K. (also accred. to Sweden, Denmark, and Norway) 1961; Amb. to the Philippines 1962; Minister of Foreign Affairs March 1963; Minister without Portfolio Dec. 1963; Perm. Observer of Republic of Korea at UN, concurrently accred. ■ Amb. to Canada 1964-70; Special Asst. to Pres. for Foreign Affairs Dec. 1970; Minister of Foreign Affairs 1971-73, of the Board of Nat. Unification 1973-74; Amb. to U.K. 1974-77, to U.S.A. 1977-. *Leisure interests:* reading, swimming. *Address:* Embassy of Republic of Korea, 2320 Massachusetts Avenue, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* Washington 483-7383.

KIMBER, Derek Barton, O.B.E., M.SC., D.I.C., F.C.G.I.; British shipbuilder and business executive; b. 2 May 1917, Stockport; s. of George and Marion Kimber (née Barton); m. Gwendoline Margaret Maude Brotherton 1943; two s. two d.; ed. Bedford School, Imperial Coll., London Univ., Royal Naval Coll., Greenwich; with Royal Corps of Naval Constructors 1939-49; Consultant, Urwick Orr and Partners Ltd. 1950-54; Man. Fairfield Shipbuilding and Eng. Co. Ltd. 1954, Dir. 1961, Deputy Man. Dir. 1963-65; Dir. Harland and Wolff Ltd. 1966-69; Dir.-Gen. Chemical Industries Asscn. 1970-73; Dir. British Ship Research Asscn. (Trustees) Ltd. 1973-; Chair. Austin and Pickersgill Ltd. 1973-: Dir. A. and P. Appledore Int. Ltd. 1974-77; Dir. Equity Capital for Industry Ltd. 1977-; numerous official posts including: Dir. Glasgow Chamber of Commerce 1962-65; Pres. Clyde Shipbuilders Asscn. 1964-65; Vice-Pres. Shipbuild-

and Repairers Nat. Assn. 1976-77; Shipbuilding Industry Training Board 1964-69, Econ. Devt. Cttee., Chemical Industry 1970-72, Council, Royal Inst. of Naval Architects 1961- (Chair. 1973-75, Pres. 1977-), Council N.E. Inst. Engineers and Shipbuild- 1974-, Vice-Pres. 1978-; Gen. Cttee. Lloyds Register of Shipping 1973-, Tech. Cttee. 1976-, Exec. Bd. 1978-; CBI Cen. Council 1970-72, 1975-, Northern Region Council 1973- (Chair. 1975-77); British Tech. Cttee., American Bureau of Shipping 1976-; Liveryman, Worshipful Co. of Shipwrights 1967- (Asst. to Court 1974-); Gov. Imperial Coll., London Univ. 1967-; mem. Board Council of Eng. Insts. 1977-, Exec. Cttee. 1978-; Founder Fellow, Fellowship of Eng., CEI. *Publications:* numerous papers on shipbuilding. *Leisure interests:* shipbuilding, golf, rough gardening. *Address:* Broughton, Monks Road, Virginia Water, Surrey, England. *Telephone:* 099-04-4274.

KIMURA, Motoo, PH.D., D.SC.; Japanese geneticist; b. 13 Nov. 1924, Okazaki; s. of Issaku Kimura and Kana Kaneiwa; m. Hiroko Mino 1957; one s.; ed. Kyoto Univ., Univ. of Wisconsin; Asst., Kyoto Univ. 1947-49; Researcher Nat. Inst. of Genetics 1949-57, Lab. Head 1957-64, Head of Dept. of Population Genetics 1964-; Visiting Prof. Univ. of Pavia 1963, 1965, Univ. of Wis. 1966, Princeton Univ. 1969, Stanford Univ. 1973; Foreign Assoc. Nat. Acad. of Sciences, U.S.A. 1973; Foreign Hon. mem. American Acad. Arts and Sciences 1978; Hon. D.Sc. (Chicago) 1978; Japanese Genetics Soc. Prize, Weldon Memorial Prize, Japan Acad. Prize, Japan Soc. of Human Genetics Prize, Order of Culture from Japanese Govt. 1976; Hon. Citizen of Okazakei 1977. *Publications:* Outline of Population Genetics (Japanese) 1960, Diffusion Models in Population Genetics 1964, An Introduction to Population Genetics Theory (with J. F. Crow) 1970, Theoretical Aspect of Population Genetics (with T. Ohta) 1971, Future of Man from the Standpoint of Genetics (Editor, Japanese) 1974. *Leisure interest:* raising and hybridizing Lady's Slipper orchids. *Address:* National Institute of Genetics, Yata 1, 111, Mishima 411 (Office); 7-24 Kiyozumi-cho, Mishima 411, Japan (Home). *Telephone:* 0559-75-0771 (Office); 0559-75-8635 (Home).

KIMURA, Toshio; Japanese politician; b. 1909; ed. Tokyo Univ.; mem. House of Reps.; f Parl. Vice-Minister of Transport and Chief Cabinet Sec.; Minister of State in charge of Econ. Planning Agency 1971-72; Minister of Foreign Affairs July-Dec. 1974; Liberal Democrat. *Address:* Keizai Kikakucho, 3-1-1 Kasumigaseki, Chiyoda-ku, Tokyo, Japan.

KIND, Friedrich; German politician; b. 20 Dec. 1928, Leipzig; m.; ed. in Limbach; Chair., Potsdam District Cttee., Christlich-Demokratische Union (CDU) 1952-; mem. Presidium, Cen. Cttee. CDU 1960-74; mem. Volkskammer 1952-54, 1958-; Cttee. for Nat. Defence, Volkskammer 1969-71; mem. State Council of German Democratic Repub. 1960-; Vaterländischer Verdienstorden in Bronze and Silver, Verdienstmedaille and other decorations. *Address:* Staatsrat, Marx-Engels-Platz, 102 Berlin, German Democratic Republic.

KINENE, Khalid Younis; Ugandan diplomatist; b. 8 Oct. 1938, Mukono; ed. Cairo, Univ. of Havana; Foreign Service Officer 1967; Ugandan Embassy, Kinshasa, subsequently Deputy Head of Mission 1968-71; Senior Asst. Sec., Ministry of Foreign Affairs, Personal Asst. to Minister of Foreign Affairs until 1973; Perm. Rep. to UN 1974-78. *Address:* c/o Ministry of Foreign Affairs, Kampala, Uganda.

KING, Billie Jean; American tennis player; b. 22 Nov. 1943, Long Beach, Calif.; d. of Willard J. Moffitt; m. Larry King 1965; ed. Los Angeles State Univ.; Amateur player 1958-67, professional 1967-; Australian Champion 1968; Italian Champion 1970; French Champion 1972; Wimbledon Champion 1966, 1967, 1968, 1972, 1973, 1975; U.S.A. Champion 1967, 1971, 1972, 1974; Fed. Repub. of Germany Champion 1971; South African Champion 1966, 1967, 1969; has won 20 Wimbledon titles (6 singles, 10 doubles, 4 mixed); Top Woman Athlete of Year 1973; sports commentator, ABC-TV 1975-78. *Publications:* Tennis to Win 1970, Billie Jean (with Kim Chapin) 1974. *Address:* c/o Women Sports, 641 Lexington Avenue, New York, N.Y. 10022, U.S.A.

KING, Bruce; American politician; b. April 1924, Stanley, N.M.; s. of William and Molly (Schooler) King; m. Alice M. Martin 1947; two s.; ed. Stanley High School and Univ. of New Mexico; County Commr., Santa Fé County 1955-58, Chair. 1957-58; mem. New Mexico House of Reps. 1959-68, Speaker 1963-64, 1965-66, 1967-68; legis. mem. State Board of Finance 1961-62; Chair. Legis. Council 1964, 1966, 1968; Democratic State Chair. 1966; Gov. of New Mexico 1971-73, re-elected 1978 (for 1979-82 term of office); Dir. of various business concerns and mem. numerous civic orgs. *Address:* c/o Office of the Governor, State Capitol, Santa Fé, New Mexico, U.S.A.

KING, Cecil Harmsworth, M.A.; British fmr. company director; b. 20 Feb. 1901, London; of Sir Lucas White King and Geraldine Adelaide Hamilton Harmsworth; m. 1st Agnes Margaret Cooke 1923, 2nd Dame Ruth Railton 1962; three s. (one deceased) one d.; ed. Winchester Coll. and Christ Church, Oxford; Dir. Daily Mirror 1929; Deputy Chair. Sunday Pictorial 1942; Dir. Anglo-Canadian Pulp and Paper Mills 1944-61; Chair. Overseas Newspapers Ltd. 1948-64; Chair. Daily Mirror Newspapers Ltd. and Sunday Pictorial Newspapers Ltd. 1951-63; Dir. Reuters Ltd. 1953-59; Chair. Scottish Daily Record and Sunday Mail Ltd. 1956-58; Chair. Fleetway Publications Ltd. 1959-61; Chair. Newspaper Proprietors Assn. 1962-68, Int. Publishing Corpn. 1963-68, Reed Paper Group 1963-68, Wall Paper Manufacturers Ltd. 1965-67; Dir. Bank of England 1965-68; Part-time mem. Nat. Coal Board 1966-69; Chair. Iliffe-N.T.P. Inc. 1966-68; mem. Nat. Parks Comm. 1966-69; Chair. Butterworth & Co. Ltd. until June 1968; Consultant to The Times 1968-73; Holder of Gold Badge for Services to the City of Warsaw; Gold Medal for services to the Paper Industry; Hon. D.Litt. (Boston) 1974. *Publications:* Strictly Personal 1969, With Malice Towards None 1970, Without Fear of Favour 1971, The Cecil King Diary Vol I 1965-70, 1972, Vol. II 1970-74 1975, Cecil King on Ireland 1973. *Leisure interest:* reading. *Address:* The Pavilion, 23 Greenfield Park, Dublin 4, Ireland. *Telephone:* 695870.

KING, Charles Glen, B.S., M.S., PH.D.; American nutritionist; b. 22 Oct. 1896, Entiat, Washington; s. of Charles C. King and Mary Bookwalter King; m. Hilda Bainton 1919; two s. d.; ed. public schools in Washington and Kansas, Washington State Coll., Univ. of Pittsburgh, Columbia Univ. and Cambridge Univ.; Instructor, Univ. of Pittsburgh 1920, Asst. Prof 1927, Prof. 1930-42, Dir. of Buhl Foundation Research, Chair. of Faculty Council 1941; Visiting Prof. Columbia Univ. 1942-46, Prof. 1947-62, Emer. Prof. and Special Lecturer 1962-72; Scientific Dir. Nutrition Foundation 1942-55, Exec. Dir. 1956-60, Pres. 1960-63, Trustee 1963-; Past Pres. American Inst. of Nutrition, American Soc. of Biological Chemists, Fifth Int. Congress of Nutrition, American Public Health Assn.; Consultant, Rockefeller Foundation; Int. Council of Scientific Unions; Hon. Pres. Int. Union of Nutritional Sciences; Hon. mem. Royal Soc. of Health, Soc. of Biochem., Biophysics and Microbiology of Finland; Nat. Acad. of Sciences; Conrad A. Elvehjem Award, Pittsburgh Bicentennial Award, John Scott Award, Nicholas Appert Award, Charles Spencer Award, Purkyne Gold medal of Acad. of Sciences of Czechoslovakia. *Publications:* History of the Nutrition Foundation 1976; Second International Conference Vitamin C (co-editor) 1975; scientific journal papers and monographs on molecular structure of fats 1928-41, isolation, biological synthesis and functions of vitamin C 1929-69, enzymes 1930-41, nutrition and public health 1941-69. *Leisure interests:* horticulture, trout fishing, music, philosophy. *Address:* P.O. Box 192, Kendal at Longwood, Kennett Square, Pa. 19348, U.S.A. *Telephone:* 215-388-1398.

KING, Francis Henry, M.A., F.R.S.L.; British writer; b. 4 March 1923, Adelboden, Switzerland; s. of Eustace Arthur Cecil King and Faith Mina Read; ed. Shrewsbury School and Balliol Coll., Oxford; served in British Council 1948-62, Regional Dir., Kyoto, Japan 1958-62; regular reviewer, Sunday Telegraph 1962-, theatre critic 1978-; Somerset Maugham Prize 1952, Katherine Mansfield Short Story Prize 1965. *Publications:* novels: To the Dark Tower 1946, Never Again 1947, The Dividing Stream 1951, The Widow 1957, The Man the Rock 1957, The Custom House 1961, The Last of the Pleasure Gardens 1965, The Waves Behind the Boat 1967, A Domestic Animal 1970, Flights 1973, A Game of Patience 1974, The Needle 1975, Danny Hill 1977, The Action 1978; short stories: The Japanese Umbrella 1964, The Brighton Belle 1968, Hard Feelings 1976; biography: E. M. Forster and His World 1978. *Leisure interests:* pictures and music. *Address:* 19 Gordon Place, London, W8 4JE, England. *Telephone:* 01-937 5715.

KING, Gen. Sir Frank Douglas, G.C.B., M.B.E.; British army officer (retd.); b. March 1919, Brightwell, Berkshire; s. of Arthur King and Kate Eliza Sheard; m. Joy Emily Ellen Taylor-Lane 1947; one s. two d.; ed. Wallingford County Grammar School; served with 21st Royal Fusiliers 1940-42, Airborne Force 1943-45; Royal Mil. Coll. of Science 1946; Staff Coll. 1950; Command, Second Bn. Parachute Regt. 1960-62, 11th Infantry Brigade Group, British Army of the Rhine (B.A.O.R.) 1962-64; Dir. Land-Air Warfare, Ministry of Defence 1967-68; Commdt. Royal Mil. Coll. of Science 1969-70; G.O.C.-in-C. Strategic Command 1971-72; G.O.C.-in-C. Dir. of Operations, N. Ireland 1973-75; Commdr., Northern Army Group and C.-in-C. B.A.O.R. 1976-68; Dir. John Taylor (Mansfield), Sir Ernest Shentall, Springthorpe and Kilton Property Cos. 1979. *Leisure interests:* golf, flying, gardening. *Address:* c/o Williams & Glyn's Bank, 69 Aldwych, London, W.C.2, England; Hardwick House, Bagshot, Surrey (Home). *Telephone:* Bagshot 75753.

KING, Phillip, C.B.E., M.A. (CANTAB); British sculptor; b. 1 May 1934, Tunis, Tunisia; s. of Thomas J. King and Gabrielle Liautard; m. Lilian Odelle 1957; one s.; ed. Mill Hill School, Christ's Coll., Cambridge, St. Martin's School of Art, London; Asst. to Henry Moore (*q.v.*) 1957-59; taught at St. Martin's School of Art 1959-74; one-man exhbn., Whitechapel Gallery 1968, British Pavilion at Venice Biennale with Bridget Riley (*q.v.*) 1968, British Council touring exhbn. Krüller Muller (Netherlands), Düsseldorf, Bern, Paris and Belfast 1974-75; Trustee, Tate Gallery 1967-69; [illegible] Art Panel, Arts Council 1977-; Assoc. Royal Acad. 1977; 1st Prize Int. Sculpture Exhbn., Piestany (Czechoslovakia) 1968. *Leisure interest:* holidays in Corsica close to both land and sea. *Address:* c/o Rowan Gallery, 31A Bruton Place, Berkeley Square, London W1X 7AB, England.

KINGS NORTON, Baron (Life Peer), cr. 1965, of Wotton Underwood; **Harold Roxbee Cox,** Kt., PH.D., D.I.C., B.SC.(ENG.), F.I.MECH.E., HON. F.R.AE.S.; British engineer and scientist; b. 1902, Birmingham; s. of William John Roxbee Cox and Amelia (née Stern); m. Marjorie Withers 1927; two s.; ed. Kings Norton Grammar School, Imperial Coll. of Science and Technology; Engineer on construction of airship R.101 1924-29; Chief Technical Officer, Royal Airship Works 1931; investigations in wing-flutter and stability of structures 1931-35; Principal Scientific Officer, Aerodynamics Dept., R.A.E. 1935-36; Head of Air Defence Dept. R.A.E. 1936-38; Chief Technical Officer, Air Registration Board 1938-39; Supt. of Scientific Research, R.A.E. 1939-40; Deputy Dir. Scientific Research, Ministry of Aircraft Production 1940-43; Dir. of Special Projects, M.A.P. 1943-44; Chair. and Man. Dir. of Power Jets (Research and Devt.) Ltd. 1944-46; Dir. Nat. Gas Turbine Establishment 1946-48; Chair. Gas Turbine Collaboration Cttee. 1941-44, 1946-48; Chief Scientist, Ministry of Fuel and Power 1948-54; Chair. Civil Aircraft Research Cttee. 1953-58; Dir. Wilmot Breeden Ltd. 1954-60; Chancellor, Cranfield Inst. of Technology; Vice-Chair. Air Registration Board 1959-66, Chair. 1966-72; Deputy Chair. The Metal Box Co. 1959-61, Chair. 1961-67; Dir. Boulton Paul Aircraft Co. Ltd. 1958-68, Ricardo and Co. Engineers (1927) Ltd. 1965-77, Steel Co. of Wales Ltd. 1965-67, Dir. Dowty Rotol Ltd. 1968-75, British Printing Corpn. Ltd. 1968-77, Hoechst, U.K. 1970-75; Chair. Berger Jenson and Nicholson Ltd. 1967-75, Applied Photophysics Ltd. 1972-, Landspeed Ltd. 1975-, Submarine Products Ltd. 1978-; Chair. of Nat. Council for Technological Awards 1960-64; Chair. of Council for Scientific and Industrial Research 1961-65; Chair. Council for Nat. Academic Awards 1964-71; Pres. Royal Aeronautical Soc. 1947-49; Chair. Naval Educ. Advisory Cttee. 1956-60; Pres. Royal Inst. of Great Britain 1969-76; Fellow of Imperial Coll., Thames Polytechnic; Hon. D.Sc. (Birmingham Univ., Cranfield), Hon. D.Tech. (Brunel Univ.), Hon. LL.D. (Council for Nat. Academic Awards); Medal of Freedom (U.S.A.) with Silver Palm, Bronze Medal (Univ. Louvain) 1946. *Leisure interest:* collecting aeronautical antiques. *Address:* Westcote House, Chipping Campden, Glos., England. *Telephone:* Evesham 840-440.

KINGSBURY-SMITH, Joseph; American journalist; b. 20 Feb. 1908, New York; m. Ruth Eileen King 1940; two d.; ed. Friends' School, Poughkeepsie, and London Univ.; International News Service 1924-26; United Press 1926-27; I.N.S. London 1927-31, Washington 1931-36; Man. London Bureau 1936-38, Washington 1940-44; European Gen. Dir. 1944-55; Pres. and Gen. Man. I.N.S. 1955-57; Vice-Pres., Assoc. Gen. Man. United Press Int. 1958-59; Trustee Hearst Estate and Fordham Univ.; Publr. N.Y. Journal-American 1959-66; Vice-Pres. and European Dir. Hearst Corpn. 1966-76, Nat. Editor, Hearst Newspapers 1976-; Chief Foreign Writer, the Hearst Newspapers and King Features Syndicate; various journalistic awards, and Chevalier de la Légion d'honneur, mostly in recognition of an exchange of correspondence with Stalin (1949) during the blockade of Berlin; Pulitzer Prize 1956 for Int. Reporting. *Address:* 1701 Pennsylvania Avenue NW, Washington, D.C. 20006, U.S.A. (Office).

KINGSWELL, Joseph Attard; Maltese trade unionist and diplomatist; b. 29 July 1925, Senglea; ed. Lyceum and Dockyard School; mem. Nat. Exec., Gen. Workers' Union 1945-77, Asst. Gen. Sec. 1952-58, Gen. Sec. 1958-71; Editor It-Torca 1958-64; Chair. and Man. Dir. Union Press, Untours Ltd. and all other Union enterprises; Amb. to Belgium 1971-77, also accred. as Amb. to France, Fed. Repub. of Germany, U.S.A., [illegible] High Commr. to Canada and Perm. Rep. to UN 1971-77, [illegible] Chief of Mission to EEC, and [illegible] Amb. to Netherlands, Luxembourg, Denmark, Sweden, Finland, Norway and Spain 1972-77; retired 1978; Dir. Abeco Ltd. 1978-. *Address:* c/o Pandora, Scicluna Street, St. Julians, Malta.

KINNELL, Galway, M.A.; American writer; b. 1 Feb. 1927, Providence, R.I.; s. of James S. Kinnell and Elizabeth Mills; m. Inès Delgado de Torres 1965; one s. one d.; ed. Princeton Univ.: Guggenheim Fellow 1963-64, 1974-75; Award of Nat. Inst. of Arts and Letters 1962, Medal of Merit 1975. *Publications:* poetry: What [illegible] Kingdom it Was 1960, Flower Herding on Mount Monadnock 1963, Body Rag[illegible] 1966, The Book of Nightmares 1971, The Avenue Bearing the Initial of Christ into the New World 1974; novel: Black Light 1966; trans.: The Poems of François Villon 1965, On the Motion and Immobility of Douve 1968, The Lackawanna Elegy 1970; interviews: Walking down the Stairs 1977. *Address:* RFD, Sheffield, Vermont 05866, U.S.A.

KINNEY, E. Robert, A.B.; American business executive; b. 12 April 1917, Burnham, Me.; ed. Bates Coll.; Harvard Graduate School; joined Gorton Corpn. 1954, Pres. 1958-68; Vice-Pres. General Mills Inc. (following merger with Gorton Corpn.) 1968, Dir. 1969-, Exec. Vice-Pres. 1969-70, Chief Financial Officer 1970-73, Pres., Chief Operating Officer 1973-77, Chair. and Chief Operating Officer Feb. 1977-; Dir. several cos. and financing insts.; Trustee, Bates Coll., Maine Sea Coast Missionary Soc., George Putnam Fund and others; Dir., mem. Exec. Cttee. Tyrone Guthrie Theatre, Minneapolis YMCA. *Address:* General Mills Inc., P.O. Box 1113, Minneapolis, Minn. 55440, U.S.A.

KINOSHITA, James Otoichi; Japanese author; b. 3 June 1889, Totori-ken; m. Fumiko Kaneko 1920; [illegible] s.; ed. Univs. of California and Southern California; fmr. Correspondent, Washington Disarmament Conf.; Editor Tsingtao Leader (English daily), Staff writer of Chugai Shogyo 1925, Sec.-Gen. Tokyo Press Assn. and Dir. Liberal News Agency; Exec. Dir. Japan Trade Promotion Assn. 1930-47, Pres. 1948; Founder The Friends of the UN 1948 (now The Friends of the World), Man. Dir. 1952-, Vice-Pres. 1962-69, Pres. 1969-; Pres. Nippon Mutual Devt. Co. Ltd. 1963. *Publications:* Report on International Child Welfare Week in Tsingtau 1924, Analysis of American Prosperity 1928, Analysis of American Prosperity 1930, Educational Marketing Campaign of Silk 1934, Thrice Around the World, Rationalization of American Industry, Cherry Blossom around the World: Donation of Japanese School Children 1973, and several translations. *Leisure interests:* travel, archaeology, international friendship, calligraphy. *Address:* 2056 Izumi, Komae-shi, Tokyo 182, Japan. *Telephone:* 489-1300.

KINOSHITA, Keisuke; Japanese film director; b. 1912; ed. Hamamatsu Industrial Coll.; began career in Shochiku Studio, Kamata; directed first film Hanasaku Minato 1943; Henrietta Award for Nijushi no Hitomi 1955, Golden Globe Award of Hollywood Foreign Press for Taiyo to Bara 1957. *Films include* Hanasaku Minato (Port of Flowers) 1943, Yabure Daiko (Torn Drum), Carmen kokyo ni Kaeru (Carmen Comes Home) 1949, Nippon no Higeki (The Tragedy of Japan) 1953, Nijushi no Hitomi (Twenty-Four Eyes) 1954, Nogiku no Gotoki Kimi Nariki (My First Love Affair) 1955, Yuyakegumo (Farewell to Dreams), Taiyo to Bara (The Rose of his Arm) 1956, Yorokobi-mo Kanashimimo Ikutoshitsuki (The Lighthouse), Fuzen no Tomoshibi (Danger Stalks Near) 1957, Narayama-bushi Ko (Ballad of the Narayama), Kono ten no Niji (The Eternal Rainbow) 1958, Kazahana 1959, Sekishuncho, The River Fuefuki 1961, Eien no Hito (Bitter Spirit) 1962. *Address:* 1366 Tsujido, Fujisawa, Kanagawa Prefecture, Japan.

KINSELLA, Thomas; Irish poet and teacher; b. 4 May 1928, Dublin; s. of John Paul and Agnes Casserly Kinsella; m. Eleanor Walsh 1955; [illegible] s. two d.; Irish Civil Service 1946-65, resigned [illegible] Asst. Prin. Officer, Dept. of Finance 1965; Artist-in-Residence, Southern Illinois Univ. 1965-67, Prof. of English 1967-70; Prof. of English, Temple Univ., Philadelphia 1970-; Dir. Dolmen Press Ltd., Cuala Press Ltd., Dublin; founded Peppercanister (private publishing enterprise), Dublin 1972; mem. Irish Acad. of Letters 1965-; Guggenheim Fellowship 1968-69, 1971-72; Guinness Poetry Award 1958; Irish Arts Council Triennial Book Award 1960; Denis Devlin Memorial Award 1966, 1969. *Publications:* Poems 1956, Another September 1958, Downstream 1962, Nightwalker and Other Poems 1966, Notes from the Land of the Dead 1972, New Poems 1973, Selected Poems 1956-1968 1973, Song of the Night and Other Poems 1978, The Messenger 1978, Fifteen Dead 1979, One and Other Poems 1979; The Táin (trans.) 1968; ed. Selected Poems of Austin Clarke 1976. *Address:* 47 Percy Place, Dublin 4, Ireland; 2101 Chestnut Street, Philadelphia, Pa. 19103, U.S.A.

KINTNER, William R., B.S., M.A., PH.D.; American professor and writer; b. 21 April 1915, Lock Haven, Pa.; s. of late S. S. Kintner and F. Kendig Kintner; m. Xandree Hyatt 1940; one s. three d.; ed. U.S. Mil. Acad., N.Y., Georgetown Univ., Washington, D.C.; Colonel in U.S. Army 1940-61, European Theatre World War II, Korea 1950-52; Prof. of Political Science, Univ. of Pennsylvania 1961-69; Deputy Dir. Foreign Policy Research Inst. 1961-69, Dir. 1969-73, Pres. 1976-; Amb. to Thailand 1973-75. *Publications:* Atomic Weap-

ons in Land Combat (with George C. Reinhardt) 1953, Protracted Conflict (co-author) 1959, The Haphazard Years (with George C. Reinhardt) 1960, A Forward Strategy for Tomorrow (co-author) 1961, Building the Atlantic World (co-author) 1963, Peace and the Strategy Conflict 1967, The Nuclear Revolution in Soviet Military Affairs (with Harriet Fist Scott) 1968, Editor, Safeguard: Why the ABM Makes Sense 1969, Eastern Europe and European Security 1971, SALT: Implications for Arms Control in the 1970s (with Robert L. Pfaltzgraff) 1973, National Strategy in a Decade of Change (with Richard B. Foster) 1973. *Leisure interests:* tennis, gardening. *Address:* c/o Foreign Policy Research Institute, 3508 Market Street, Philadelphia, Pa. 19104 (Office); 2470 Woodland Road, Bryn Athyn, Pa. 19009, U.S.A. (Home). *Telephone:* (215) 382-0685. (Office).

KINZEL, Augustus Braun, A.B., D.MET., D.SC.; American technical and business executive; b. 26 July 1900, New York, N.Y.; m. 2nd Mary McClymont 1945 (died 1973); s. four d.; ed. Columbia Univ., Mass. Inst. of Technology and Univ. of Nancy, France; Metallurgist, Gen. Electric Co., Pittsfield, Mass. 1919-20, 1922-23, Henry Disston and Sons, Inc., Phila., Pa. 1923-26; Lecturer, Instructor, Extension Courses in Advanced Metallurgy, Temple Univ. 1925-26; Research Metallurgist Union Carbide and Carbon Research Laboratories Inc., N.Y.C. 1926-28, Group Leader 1928-31, Chief Metallurgist 1931-45, Vice-Pres. 1945-48, Pres. 1948-65, Vice-Pres. of subsidiary, Electro-Metallurgy Co. 1944-54, Dir. of Research, Union Carbide Corpn. 1954-55, Vice-Pres. Research 1955-65; Pres. and Chief Exec. Officer Salk Inst. of Biological Studies, La Jolla, Calif. 1965-67; Vice-Pres. System Devt. Foundation; Chair. Governing Council, Courant Inst. of Mathematical Sciences of New York Univ.; Dir.-Gen. American Investors Co. Inc.; Trustee, Calif. Inst. of Technology; Adams Lecturer, American Welding Soc. 1944, Campbell Lecturer, American Soc. for Metals 1947, Burgess Memorial Lecturer, American Soc. for Metals 1956, Howe Memorial Lecturer, American Inst. of Mining and Metallurgy Engineers 1952, Sauveur Lecturer, American Soc. for Metals 1952, Regent's Lecturer, Univ. of Calif., San Diego 1968-69; Fellow, N.Y. Acad. of Sciences; Benjamin Franklin Fellow, Royal Soc. of Arts, London; Pres. American Inst. of Mining and Metallurgy Engineers 1957-58; Founding Pres. Nat. Acad. of Engineering 1964, Int. Inst. of Welding (Vice-Pres.); Assoc., Linus Pauling Inst. of Science and Medicine 1974-, mem. Metallurgy Soc., Nat. Acad. of Sciences, Soc. for Chemical Industry, American Phil. Soc.; Hon. Eurospace, A.I.M.E. and American Soc. for Metals; Hon. D.Sc. (Univ. of Nancy, Clarkson Coll. of Technology), Hon. D.Eng. (Rensselaer and Worcester Polytechnic Insts., Univ. of Mich., Northwestern Univ., N.Y. Univ.), Hon. LL.D. (Queens Univ., Canada); Powder Metallurgy Medal, Stevens Inst. of Tech. 1959, Industrial Research Inst. Medal 1960, James Douglas Gold Medal, American Inst. of Mining, Metallurgy and Petroleum Engineers 1960, Wash. Award, Soc. of Western Engineers 1968; Distinguished Service Award, U.S. Navy 1975. *Publications:* Alloys of Chromium (snr. Author), Vols. I and II 1937, 1940; articles on metallurgy and engineering in technical journals. *Leisure interests:* sailing, flying. *Address:* 1738 Castellana Road, La Jolla, Calif. 92037, U.S.A. *Telephone:* (714) 454-6037.

KIPPHARDT, Heinar, DR.MED.; German writer; b. 8 March 1922; ed. medical studies, Düsseldorf; fmr. Asst. doctor, Universitäts-Nerven-Klinik der Charité, Berlin; Chief Dramatist and Dir., Deutsches Theater, Berlin 1950-59; freelance writer 1959-; Deutscher Nationalpreis 1953, Schiller Gedächtnispreis 1962, Gerhard Hauptmann Preis 1964, Adolf Grimme Preis 1964, Fernsehpreis (TV Prize) der deutschen Akad. der darstellenden Künste 1964, Filmpreis des Verbandes der Ärzte Deutschlands 1976, Prix Italia der RAI 1976; Bremer Literature Prize 1976. *Publications:* Shakespeare dringend gesucht (satire) 1953, Der Aufstieg des Alois Piontek (farce) 1956, Die Stühle des Herrn Szmil (satire) 1960, Der Hund des Generals (play) 1962, In der Sache J. Robert Oppenheimer (play) 1964, Joel Brand, Die Geschichte eines Geschäfts (play) 1965, Die Nacht, in der der Chef geschlachtet wurde (comedy) 1967, Die Soldaten (play) 1968, Die Ganovenfresse (short stories) 1968, Stücke 1 und 2 1973, März (novel) 1976, Der Mann des Tages (stories), Angelsbrucker Notizen (poem), Theaterstücke 1 1978. *Films:* Leben des schizophrenen Dichters, Alexander März. *Address:* 8059 Angelsbruck, Oberbayern, Federal Republic of Germany. *Telephone:* 08762-1829.

KIPPING, Sir Norman Victor, G.C.M.G., K.B.E., J.P.; British industrial administrator; b. 11 May 1901, London; s. of P. P. and Rose Allam Kipping; m. Eileen Rose 1928; two s. one d.; ed. Univ. of London; Transmission engineer, Int. Western Electric Co. 1921-26; Standard Telephones & Cables Ltd. 1927-42; Ministry of Production 1942-45; Dir.-Gen. Fed. of British Industries 1946-65; Hon. D.Sc. (Loughborough); Fellow, Inst. Electrical Engineers; Fellow, Inst. Production Engineers; Hon. Fellow, British Inst. Management; Chair. of Govs. Univ. Coll. School 1960-72; Vice-Chair. Fulton Cttee. on the Civil Service 1966-68; foreign orders. *Publications:* The Suez Contractors 1969, Summing-up (memoirs) 1973. *Leisure interests:* shooting, gardening. (Died June 1979).

KIRBY, Sir Arthur Frank, G.B.E., C.M.G.; British transport administrator; b. 13 July 1899, Slough, Bucks.; s. of George and Lily Kirby; m. Winifred Kate Bradley 1935; one d.; ed. Sir William Borlase's School, Marlow and London Univ.; served in France and Belgium in First World War 1917-18; with Great Western Railway 1918-28; Asst. Sec. Takoradi Harbour, Gold Coast 1928-35; Traffic Manager Gold Coast Railways 1935-38; Asst. Supt. of the Line, Kenya and Uganda Railways 1938-42; Gen. Manager Palestine Railways 1942-48; Supt. of the Line, E. African Railways and Harbours 1948-51; Asst. Commr. for Transport, E. Africa High Comm. Jan. 1951, Acting Commr. 1952; Gen. Manager E. African Railways and Harbours 1952-57; Commr. E. African Common Services Org., London 1958-62; Chair. British Transport Docks Board 1963-67; Pres. Shipping and Forwarding Agents 1966-; Fellow, Chartered Inst. of Transport; Deputy Chair. Royal Commonwealth Soc. 1965-68, Great Ormond Street Children's Hosp. 1963-69; Gov. Nat. Hosp. for Nervous Diseases 1961-69; Council Royal Soc. Arts 1967-72; Chair. Nat. Ports Council 1967-71; Chair. Palestine Assn.; Vice-Pres. British Inst., E. Africa. *Leisure interests:* photography, social work, walking, art. *Address:* 6 Baltimore Court, The Drive, Hove, Sussex, England.

KIRBY, Robert E.; American business executive; b. 8 Nov. 1918, Ames, Ia.; m. Barbara McClintock, one d.; ed. Pa. State Univ.; Radar Officer, U.S. Navy, World War II; joined Westinghouse Electric Corpn. 1946, Man. Industrial Electronics Eng. 1952, Man. Ordnance Dept., Gen. Man. Electronics Div. 1958, Vice-Pres. Eng. 1963, Industrial Group Vice-Pres. 1963, Exec. Vice-Pres., Dir. 1966, Dir. Industry and Defence Co. 1969, fmr. Vice-Chair. Operations, Chair., Chief Exec. Officer Jan. 1975-; Vice-Chair. Board of Trustees, Univ. of Pittsburgh; Chair. Fed. Reserve Bank of Cleveland; Dir. Pittsburgh Symphony Soc.; American Soc. of Naval Architects and Engs., American Ordnance Assn., Inst. of Electrical and Electronic Engs., Nat. Advisory Cttee. on Professional Golfers' Assn. of America. *Leisure interests:* golf, athletics, music. *Address:* Westinghouse Electric Corporation, Westinghouse Building, Gateway Center, Pittsburgh, Pa. 15222, U.S.A.

KIRCHSCHLÄGER, Rudolf, DR.JUR.; Austrian politician; b. 20 March 1915, Niederkappel, Upper Austria; s. of Johann and Anna Kirchschläger; m. Herma Sorger 1940; one s. one d.; ed. Univ. of Vienna; Judge until 1954; joined Ministry of Foreign Affairs 1954, Head of Dept. of Int. Law 1956, Deputy Sec.-Gen. for Foreign Affairs 1962-67; Principal Private Sec. to the Minister of Foreign Affairs 1963-66; Minister to Czechoslovakia until 1970; Minister of Foreign Affairs 1970-74; Fed. Pres. of Austria July 1974-; has attended numerous int. confs. and been of Austrian del. to UN Gen. Assembly. *Leisure interests:* music, walking. *Address:* Hofburg, A-1014 Vienna, Austria. *Telephone:* 57-36-26.

KIRICHENKO, Yuriy Alekseyevich; Soviet diplomatist; b. 13 Jan. 1936, Zernograd, Rostov Region; s. of Aleksey and Yevdokiya Kirichenko; m. Tatyana Grechko; ed. Kiev Univ.; Diplomatic Service 1958-; Counsellor, Egypt 1964-70; on staff of Ministry of Foreign Affairs 1970-72; Minister Counsellor, Turkey 1972-73; Amb. to Iceland 1973-75, to Norway 1975-. *Address:* Embassy of the U.S.S.R., Drammensvn. 74, Oslo 2, Norway.

KIRILENKO, Andrey Pavlovich; Soviet politician; b. 8 Sept. 1906, Alekseyevka, Voronezh region; ed. Higher Technical School; fitter 1925-29; Young Communist League 1929-30; mem. CPSU 1931-; Engineer 1936-38; Sec. District, later Regional Cttee.; Zaporozhe Regional Cttee., CPSU 1938-41, 1943-47; Soviet Army 1941-43; First Sec. Nicolaev City and Regional Cttee., CPSU 1947-50, Dnepropetrovsk Regional Cttee. 1950-55, Sverdlovsk Regional Cttee. 1955-62; mem. Cen. Cttee. CPSU 1956-; Cand. mem. Presidium of Cen. Cttee. of the CPSU 1957-61, mem. 1962-66, Sec. 1966–, mem. Politburo 1966-; First Vice-Chair. Bureau for the R.S.F.S.R. 1962-66; Deputy to U.S.S.R. Supreme Soviet 1950-; Order of Lenin, Hammer and Sickle Gold Medal, Hero of Socialist Labour (five times) and other decorations. *Address:* Politburo of Central Committee of the Communist Party of the U.S.S.R., 4 Staraya ploschad, Moscow, U.S.S.R.

KIRILLIN, Vladimir Alekseyevich; Soviet thermophysicist and politician; b. 20 Jan. 1913, Moscow; ed. Power Engineering Inst., Moscow; Lecturer 1938-41, 1943-52; Prof. Moscow Power

Engineering Inst. 1952-53; Corresp. [illegible] U.S.S.R. Acad. of Sciences 1953-62, mem. 1962-, Vice-Pres. 1963; U.S.S.R. Dep. Minister of Higher Education 1954-55; Head, Dept. of Science, Higher Education Inst. and School, Cen. Cttee. of CPSU 1955-63; mem. Central Auditing Comm. CPSU 1956-61; Cand. [illegible] CPSU Cen. Cttee. 1961-66, mem. 1966-; Deputy to U.S.S.R. Supreme Soviet 1962-; fmr. Chair. State Cttee. for Science and Engineering 1965, later Chair. State Cttee. for Science and Tech.; Vice-Chair. U.S.S.R. Council of Ministers 1965-; State Prize 1951, 1959, Order of Lenin (four times), and other decorations. *Publications:* Cycles of Turbines of Internal Combustion 1949, Fundamentals of Experimental Thermodynamics 1950, Steam in Power 1953, Thermodynamics of Solutions 1956, Thermodynamic Properties of Gases 1953, Investigation of Thermodynamic Properties of Substances 1963, Technical Thermodynamics 1968. *Address:* Council of Ministers, The Kremlin, Moscow, U.S.S.R.

KIRK, Grayson, PH.D.; American university president; b. 12 Oct. 1903, Jeffersonville, Ohio; s. of Traine C. and Nora Eichelberger Kirk; m. Marion Sands 1925; one s.; ed. Miami Univ., Clark Univ., Ecole Libre des Sciences Politiques, Paris, Univ. of Wisconsin, London School of Economics; Instructor in Political Science, Univ. of Wisconsin 1929-30, Asst. Prof. 1930-36, Assoc. Prof. 1936-38, Prof. of Political Science 1938-40; Assoc. Prof. of Govt., Columbia Univ. 1940-43; Research Assoc., Yale Inst. of International Studies 1943-44; Prof. of Govt., Columbia Univ. 1943-47, Prof. of Int. Relations 1947-49, Provost 1949-50, Vice-Pres. and Provost 1950-53, Acting Pres. 1951, Pres. and Trustee 1953-68, Pres. Emer. and Trustee Emer. 1968-; Bryce Prof. Emer. of the History of Int. Relations, Columbia Univ.; Head of Security Section, Div. of Political Studies, State Dept. 1942-43; mem. U.S. Del. Dumbarton Oaks 1944; Exec. Officer, Third Comm. (Security Council), San Francisco Conf. 1945; mem. Board of Dirs. Acad. of Political Science, International Business Machines Corpn. Inc., Nation-Wide Securities Co., Dividend Shares Inc., The Tinker Foundation, France-America Soc.; Trustee, Asia Foundation, Greenwich Savings Bank, Inst. of Int. Educ., Lycée Français of New York; Hon. LL.D. (Miami, Waynesburg, Brown, Union, Princeton, Wisconsin, Syracuse, Williams, Pennsylvania, Harvard, Tennessee, Washington, New York, Clark, Puerto Rico, Johns Hopkins, Columbia, Amherst, Dartmouth Coll., Northwestern, Jewish Theol. Seminary, St. Lawrence, Denver, Notre Dame, Bates Coll., Univ. of Mich., Waseda (Japan), Sussex, Venezuelan Univs. and Univs. in India and Thailand), Hon. Ph.D. (Bologna), D.C.L. (Univ. of King's Coll., Halifax, Nova Scotia), Hon. L.H.D. (N. Dakota); Commdr. Order of Orange Nassau (Netherlands), Hon. K.B.E., Grand Officier Légion d'honneur, Knight St. John, Officer, Order of Grand Cross of George I (Greece), Order of the Sacred Treasure, 1st Class (Japan), and Italian and Iranian decorations, Commdr. de l'Ordre des Palmes académiques (France). *Publications:* Philippine Independence 1936, Contemporary International Politics (with W. R. Sharp) 1940, War and National Policy, Syllabus (with R. P. Stebbins) 1941, The Study of International Relations in American Colleges and Universities 1947. *Address:* Columbia University, 125 Maiden Lane, New York, N.Y. 10038 (Office); 28 Sunnybrook Road, Bronxville, N.Y. 10708, U.S.A. (Home). *Telephone:* 943-8162.

KIRKLEY, Sir (Howard) Leslie, Kt., C.B.E., A.C.I.S.; British chartered secretary; b. 13 March 1911, Manchester; s. of Albert and Elizabeth Kirkley; ed. Manchester Central High School; Local govt. service, Manchester and Southall 1928-41; Relief work 1941-45; commercial appointments, Leeds 1945-51; Gen. Sec. Oxford Cttee. for Famine Relief 1951-58, Dir. 1958-74; Pres. Int. Council of Voluntary Agencies 1968-71, Chair. Gov. Board 1971-76; mem. Crown Agents Board 1974-; Chair. Standing Conf. of British Org. for Aid to Refugees 1974-, U.K. Disasters Emergency Cttee. 1978-, Public Voice Communications; Vice-Chair. Anchor Housing Trust 1974-78, Chair. 1978-; Trustee, Guideposts Trust; Hon. Fellow (Manchester Polytechnic); Hon. M.A. (Oxford, Leeds, Bradford); Kt. Commdr. Order of St. Sylvester, decorations from Tunisian and Korean govts. *Leisure interests:* walking, gardening, cricket. *Address:* 25 Capel Close, Oxford, OX2 7LA, England. *Telephone:* Oxford 53167.

KIRKPATRICK, Ralph, D.MUS.; American harpsichordist; b. 10 June 1911, Leominster, Mass.; s. of Edwin Asbury Kirkpatrick and Florence May (Clifford) Kirkpatrick; ed. Harvard Coll.; harpsichord, clavichord and early piano exponent; tours throughout America and Europe 1933-; Lecturer of Music, Yale Univ. 1940, Assoc. Prof. 1956-65, Prof. 1965-76, Prof. Emer. 1976-; Ernest Bloch Prof. of Music, Berkeley, Calif. 1964; recordings of much classical music including Bach's harpsichord concertos 1958-60 and complete clavier works 1956-67; Fellow, Acad. of Arts and Sciences; [illegible] American Philosophical Soc.; Order of Merit Italian Republic. *Publications:* J. S. Bach's Goldberg Variations (Editor) 1938, Domenico Scarlatti 1953, Domenico Scarlatti's Sixty Sonatas (Editor) 1953, Complete Keyboard Works in Facsimile (Editor) 1972. *Leisure interests:* literature in English, French, German and Italian, visual arts, outdoor work, and the collecting of books and prints. *Address:* Old Quarry, Guilford, Conn. 06437, U.S.A. *Telephone:* 453-3409.

KIRKUP, James, B.A.; British writer; b. 23 April 1918, South Shields; s. of James Harold Kirkup and Mary Johnson; ed. Durham Univ.; Gregory Fellow in Poetry, Leeds Univ. 1950-52; Visiting Poet, Bath Acad. of Art 1953-56; travelling lectureship from Swedish Ministry of Education 1956-57; Prof. of English Language and Literature, Salamanca (Spain) 1957-58; Prof. of Eng. Lit., Tohoku Univ. 1959-61; Visiting Prof. of Eng. Lit., Japan Women's Univ., Tokyo 1964-69; Visiting Prof. and Poet in Residence, Amherst Coll. Mass. 1968-69; Prof. of English Literature, Univ. of Nagoya, Japan 1969-72; Morton Visiting Prof. in Int. Literature, Ohio Univ. 1975-76; Literary Editor Orient-West Magazine, Tokyo 1963-65; Atlantic Award in Literature (Rockefeller Foundation) 1959, F.R.S.L. 1962, First Prize, Japan PEN literary contest 1965, Mildred Batchelder Award, A.L.A. 1968, Crowned Ollave of the Order of Bards, Ovates and Druids 1974; Hon. Fellow (Inst. of Psychophysical Research, Oxford) 1970; Fellow in Creative Writing (Sheffield Univ.) 1974-75; Playwright in Residence, Sherman Theatre, Univ. Coll., Cardiff 1976-77. *Publications:* The Cosmic Shape 1947, The Drowned Sailor 1948, The Creation 1950, The Submerged Village 1951, A Correct Compassion 1952, A Spring Journey 1954, Upon This Rock, The Dark Child, The Triumph of Harmony 1955, The True Mistery of the Nativity, Ancestral Voices, The Radiance of the King 1956, The Descent into the Cave, The Only Child (autobiography) 1957, The Peach Garden, Two Pigeons Flying High (TV plays), Sorrows, Passions and Alarms (autobiography) 1960, The True Mistery of the Passion, The Prodigal Son (poems) 1956-60, These Horned Islands (travel) 1962, The Love of Others (novel) 1962, Tropic Temper (travel) 1963, Refusal to Conform, Last and First Poems 1963, The Heavenly Mandate 1964, Japan Industrial, Vols. I and II 1964-65, Tokyo (travel) 1966, Bangkok (travel) 1967, Paper Windows: Poems from Japan 1967, Michael Kohlhaas 1967, Filipinescas (travel) 1968, One Man's Russia (travel) 1968, Streets of Asia (travel) 1969; Hong Kong (travel) 1969, White Shadows, Black Shadows: Poems of Peace and War 1969, The Body Servant: Poems of Exile 1971, Japan Behind the Fan 1970, Streets of Asia 1969, Insect Summer (novel) 1971, A Bewick Bestiary 1971, Transmental Vibrations 1972, Brand (Ibsen) 1972, The Magic Drum (play for children) 1972, (story for children) 1973, Peer Gynt 1973, The Winter Moon, Selected Poems of Takagi Kyozo, Cyrano de Bergerac 1974, Play Strindberg 1974, The Conformer 1975, Don Carlos 1975, Heaven, Hell and Hara-Kiri: The Rise and Fall of the Japanese Superstate 1975, Background to English Literature 1975, An English Traveller in Japan 1975, Frank the Fifth, Portrait of a Planet 1976, Scenes from Sesshu 1977, and numerous poems, plays and essays and trans. from French, German, Japanese, Italian and Norwegian. *Leisure interests:* macrobiotic diet, Zen Buddhist meditation, listening to good jazz (leading fan of Anita O'Day, Blossom Dearie, Lee Wylie, etc.). *Address:* BM-Box 2780, London, WC1V 6XX, England. *Telephone:* 01-405 0463.

KIRLOSKAR, Shantanu Laxman, B.SC.; Indian industrialist; b. 28 May 1903, Sholapur, Maharashtra State; m. Yamutai R. Phatak 1927; two s. one d.; ed. Massachusetts Inst. of Technology, U.S.A.; Kirloskar Brothers 1926-; Chair. and Man.-Dir. Kirloskar Oil Engines Ltd., Poona; Chair. Board of Dirs. Kirloskar Pneumatic Co. Ltd., Poona, Kirloskar Consultants Ltd., Poona, Kirloskar Cummins Ltd., Poona, Swastik Rubber Products Ltd., Poona, Padamjee Pulp and Paper Mills Ltd., Poona, Kirloskar Tractors Ltd., Poona Industrial Hotel Ltd., Kirloskar Brothers Ltd., The Central Pulp Mills Ltd.; Dir. [illegible] other companies; fmr. Chair. Indian Inst. of Management; [illegible] Maharatta Chamber of Commerce and Industries, Poona; Pres. Fed. of Indian Chambers of Commerce and Industry, New Delhi 1965-66; First Pres. Indo-American Chamber of Commerce; Padma Bhushan 1965; Chair. Cttee. for Econ. Devt. in India; Dir. Reserve Bank of India, Industrial Devt. Bank of India; [illegible] Exec. Cttee. Int. Chamber of Commerce 1976-; Life [illegible] Inst. of Engineers (India) 1970; Sir Walter Puckey Prize 1968, Karma Virottama, Eng. Asscn. of India 1972, Vanijya Ratna 1976. *Publication:* Jet Yugateel Marathi Manus (A Man from Maharashtra in the Jet Age). *Leisure interests:* Western classical music, painting. *Address:* Kirloskar Oil Engines Ltd., Corporate Office, 11 Koregaon Road, Poona 411001 (Office); "Lakaki", Shivajinagar, Poona 411016, India (Home). *Telephone:* 20080 (Office); 56471 (Home).

KIRPAL, Prem Nath, M.A., LL.B.; Indian educationist; b. 30 April 1909, Moga, Punjab; s. of Raibahadur Ishwardas and Bibi Kesari;

ed. Punjab Univ. and Balliol Coll., Oxford; Lecturer, then Prof. of History and Political Science 1934-45; Educ. Adviser, Indian High Comm., London 1945-48; Deputy Sec. Ministry of Educ. and Sec.-Gen. Indian Nat. Comm. for UNESCO 1948-52; Deputy Dir. then Dir. UNESCO Dept. of Cultural Activities 1952-57; Joint Sec. Ministry of Educ. and Joint Educ. Adviser to Govt. of India 1957-60; Sec. Ministry of Educ. 1960-69; Sr. Specialist, East-West Centre, Honolulu Hawaii 1969; Dir. Int. Study of Private Philanthropy 1969-; Pres. Exec. Board, UNESCO 1970-72; Founder, Pres., Inst. of Cultural Relations and Devt. Studies, New Delhi 1971-; Pres. Indian Council of Peace Research 1972-; Consultant, World Bank, Washington, D.C.; mem. Exec. Council, Delhi Univ.; Chair. Delhi Public Library, Delhi School of Social Work; Pres. Forum of Educ., India; Hon. LL.D. (Temple Univ.), Hon. D.Sc. (Leningrad), Hon. D.Litt. (Punjab Univ.); UNESCO Gold Medal 1972; Orders of Repub. of Egypt and of U.A.R. 1972; 30th Anniversary Award, UNESCO 1976, and other awards. *Publications:* East India Company and Persia 1800-1810: A Study in Diplomatic Relations, Memoirs of Wollebrant de Jong 1624, Life of Dyal Singh Majithia, Main Trends in Cultural Development of India, A Decade of Indian Education 1958-68, Indian Education—Twenty-five Years of Independence, Youth Values and Established Culture, Education and Development, In Quest of Humanity; and over 20 articles on education, culture and international co-operation. *Leisure interests:* mountaineering, hiking, painting, poetry and meditation. *Address:* Executive Board UNESCO, Place de Fontenoy, 75700 Paris, France; 63F Sujan Singh Park, New Delhi 3, India (Home). *Telephone:* 566-57-57 (UNESCO); 693-258 (New Delhi).

KIRSOP, Arthur Michael Benjamin, B.A.JURIS.; British business executive; b. 28 Jan. 1931, Manchester; s. of Arthur and Sarah Cauthery Kirsop; m. Patricia Cooper 1957; two s.; ed. Glasgow Acad. and Oxford Univ.; Dir., English Sewing Cotton Co. Ltd. 1967; Dir., English Calico Ltd. (now Tootal Ltd.) 1968, Joint Man. Dir. 1973, Deputy Chair. 1974, Chair. Feb. 1975-76; Chair. Forth Thyme Ltd. 1976-. *Leisure interests:* gardening, sport. *Address:* Peel House, 5 Planetree Road, Hale, Cheshire, England. *Telephone:* 061-980-5173.

KIRST, Hellmut; German writer; b. 5 Dec. 1914, Osterode; m. Ruth Müller 1961; one d.; ed. Volksschule and Gymnasium, Osterode; began career as a farmer; free-lance writer since 1947; PEN Club, Author's Guild U.S.A.; Edgar Allan Poe Special Award, U.S.A. 1965, Special Collection of Boston Univ. Library, U.S.A. 1967, Knight of Mark Twain, U.S.A. 1968, Stifter Ludwig-Thoma-Medaille in Gold. *Publications include:* Galgenstrick 1951, 08/15 (trilogy) 1954, Keiner kommt davon 1957, Fabrik für Offiziere 1960, Nacht der Generale 1962, Aufstand der Soldaten 1965, Die Wölfe 1967, Held im Türm 1970, Verdammt zum Erfolg 1971, Verurteilt zur Wahrheit 1972, Verfolgt vom Schicksal 1973, Alles hat seinen Preis 1974, books translated into 28 languages. *Leisure interest:* African sculpture. *Address:* 8133 Feldafing am Starnberger See, Moorweg 3-5, Federal Republic of Germany (Office); Caslano bei Lugano, San Michele, Casa 7, Switzerland (Home). *Telephone:* Feldafing 319 (Office); Caslano 96863 (Home).

KIRSTEIN, Lincoln; American ballet promoter; b. 4 May 1907; ed. Harvard Univ.; Editor Hound and Horn (literary periodical) 1927-34; Editor The Dance Index 1941-47; established School of American Ballet, New York City, and Dir.; Dir. New York City Ballet Co.; Dir.-Gen. American Ballet. *Publications:* A Short History of Theatrical Dancing 1935, Blast at Ballet 1938, Low Ceiling (poems) 1935, Ballet Alphabet 1939, Rhymes of a P.F.C. (Private First Class) (poems) 1964, Rhymes and more Rhymes of a P.F.C. 1966, The Hampton Album 1966, Three Pamphlets Collected 1967, Movement and Metaphor: Four Centuries of Ballet 1969, The New York City Ballet 1973, Elie Nadelman 1973, Lay this Laurel 1974, Nijinsky, Dancing 1974, Auden in America 1979. *Address:* State Theater, Lincoln Center, New York, N.Y. 10023, U.S.A.

KIRSZENSTEIN-SZEWIŃSKA, Irena, M.ECON.; Polish athlete; b. 24 May 1946, Leningrad, U.S.S.R.; m.; one s.; ed. Warsaw Univ.; took part in Olympic Games, Tokyo 1964 (silver medals for long jump and 200 m., gold medal for 4 × 100 m. relay), Mexico City 1968 (bronze medal for 100 m., gold medal for 200 m.), Munich 1972 (bronze medal for 200 m.), Montreal 1976 (gold medal for 400 m.); seven times world record holder, especially for 200 m. and 400 m.; Gold Cross of Merit 1964, Officer's Cross, Order of Polonia Restituta 1968, Commdr.'s Cross 1972. *Address:* Ul. Bagno 5 m. 80, 00-112 Warsaw, Poland. *Telephone:* 20-63-73.

KISHI, Nobusuke; Japanese politician; b. 1896; elder brother of the late Eisaku Sato, former Prime Minister of Japan; ed. Tokyo Imperial Univ.; Clerk of Ministry of Agriculture and Commerce 1920; Chief of Industrial Administration Section, Industrial Affairs Bureau 1932; concurrently Sec. to Ministry of Foreign Affairs 1933; Chief of Archives Section, Ministry of Commerce and Industry 1933; Sec. of Temporary Industrial Rationalization Bureau and Dir. of Industrial Affairs Bureau 1935-36; served in various administrative capacities in Govt. of Manchoukuo 1936-39; Vice-Minister of Commerce and Industry 1939-41 and Oct.-Nov. 1943; Minister of Commerce and Industry 1941-42; elected of House of Representatives 1942; Minister of State without Portfolio 1943-44; purged from public service Dec. 1947; apptd. Chair. Board of Dirs. of Toyo Pulp Mfg. Co. Ltd. 1949; re-elected of House of Representatives 1953 and 1955; Chair. of Railway Construction Council 1955; Minister of Foreign Affairs Dec. 1956; Prime Minister 1947-60; Pres. Liberal Democratic Party 1957-60 (re-elected 1959). *Address:* c/o Jiyu-Minshuto, 7, 2-chome, Hirakawacho, Chiyodaku, Tokyo, Japan.

KISHKIN, Sergey Timofeyevich; Soviet metallurgist; b. 30 May 1906, Lugansk (now Voroshilovgrad), Ukraine; ed. Moscow Higher Technical School; Mem. CPSU 1939-; Prof. Moscow Inst. of Aviation Technology 1948-60; Corresp. mem. U.S.S.R. Acad. of Sciences 1960-66, mem. 1966-; Hon. Worker of Science and Tech. of the R.S.F.S.R. 1957; U.S.S.R. State Prize 1942, 1949, 1968; Order of Lenin, and other decorations. *Publications:* works on metallurgy and metal studies. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

KISIEL, Henryk, M.ECON.; Polish banker and politician; b. 1 July 1921, Łódź; ed. Faculty of Law and Econs., Łódź Univ.; manual worker during occupation; joined Nat. Bank of Poland as trainee, Łódź 1945, Dir. of Head Office 1961-64; Dir. Bank Handlowy SA w Warszawie 1964-66, Pres. 1966-68; Under-Sec. of State, Ministry of Finance 1968-71, Ministry of Foreign Trade 1971; Vice-Chair. Planning Comm. attached to Council of Ministers 1971-74; First Deputy Minister of Foreign Trade and Maritime Econ. 1974; Minister of Finance Nov. 1974-; Polish United Workers' Party (PZPR), Deputy mem. Cen. Cttee. PZPR Dec. 1975-; Gold Cross of Merit 1954, Order of Banner of Labour, 2nd Class 1964, Knight's Cross, Order of Polonia Restituta 1959, Officer's Cross 1969, Commdr.'s Cross 1974. *Leisure interests:* literature, history, sport. *Address:* Ministerstwo Finansów, ul. Swietokrzyska 12, 00-044 Warsaw, Poland. *Telephone:* 26-55-95 (Office).

KISS, Károly; Hungarian politician; b. 1903, Bicske; s. of György Kiss and Irma Gubicza; m. Ilona Kósa 1945; one s.; leather worker; mem. Political Cttee., Hungarian Communist Party 1945-53; Chair. Cen. Control Comm. 1946-56; Minister for Foreign Affairs 1951-52; Vice-Pres. Presidential Council 1949-51, 1958-61, Sec. of Presidential Council 1961-67; Vice-Pres. Cabinet Council 1952-53; Cen. Council of Trade Unions 1967-; mem. Cen. Cttee. Hungarian Socialist Workers' Party; Labour Order of Merit, golden degree 1970. *Publication:* Memoirs 1974. *Leisure interest:* gardening. *Address:* Central Council of Trade Unions, Dozsa György u. 84/b, 1068 Budapest VI, Hungary. *Telephone:* 225-840.

KISSIN, Baron (Life Peer), cr. 1974, of Camden in Greater London; **Harry Kissin,** LL.D., F.R.S.A.; British company executive; b. 23 Aug. 1912, Danzig, Germany (now Gdańsk, Poland); s. of Israel Kissin and Reusi (née Model); m. Ruth Deborah Samuel 1935; one s. one d.; ed. Danzig and Switzerland; Vice-Chairman, Lewis & Peat Ltd. 1955-61, Chair. 1961-73; Chair. Guinness Peat Group Ltd. 1973-(79); Chair. Inst. of Contemporary Arts 1968-76; Dir. Royal Opera House, Covent Garden 1973-; Chair. Royal Opera House Trust 1974-; Freeman of the City of London 1975. *Address:* 44 Frognal Lane, London, N.W.3, England. *Telephone:* 01-435 8711.

KISSINGER, Henry Alfred, M.A., PH.D.; American (German-born) government official and university professor; b. 27 May 1923, Fuerth, Germany; m. 1st Anne Fleisher 1949 (divorced 1964), s. d.; m. 2nd Nancy Maginnes 1974; ed. George Washington High School, Harvard Coll., Harvard Univ.; went to U.S.A. 1938; naturalized U.S. Citizen 1943; U.S. Army Counter-Intelligence Corps 1943-46, Capt. Mil. Intelligence Reserve 1946-49; Consultant Operations Research Office 1950, Psychological Strategic Board 1952-53; Dir. Study Group on Nuclear Weapons and Foreign Policy, Council of Foreign Relations 1955-56; Dir. Special Studies Project, Rockefeller Brothers Fund 1956-58; Consultant, Weapons System Evaluation Group, Joint Chiefs of Staff 1956-60, Nat. Security Council 1961-63, U.S. Arms Control and Disarmament Agency 1961-68, Dept. of State 1965-68, and to various other bodies; Faculty Harvard Univ. 1954-71; Assoc. Dir. Harvard Univ. Center for Int. Affairs 1957-60; Dir. Harvard Int. Seminar 1951-71; Dir. Harvard Defense Studies Program 1958-71; Assoc. Prof., Dept. of Govt., Harvard Univ. 1959-62, Prof. of Govt. 1962-71 (on leave of absence 1969-71); Special Asst. to Pres. of U.S.A. for Nat. Security Affairs 1969-75; Sec. of State 1973-77; Chair. Int. Advisory Cttee., Chase

Manhattan Bank 1978-; Visiting Prof. of Diplomacy, Georgetown School of Foreign Service 1977-; Special World Affairs Consultant, NBC; Consultant, Goldman, Sachs & Co. 1978, Gen. Electric Co. (U.K.) 1979-; prominent in American negotiations for the Viet-Nam settlement of Jan. 1973, and in the negotiations for a Middle East ceasefire 1973, 1974; Guggenheim Fellowship 1965-66, Woodrow Wilson Book Prize 1958, American Inst. for Public Service Award 1973, Nobel Peace Prize 1973, American Legion Distinguished Service Medal 1974, Wateler Peace Prize 1974, Presidential Medal of Freedom 1977, and many other awards and prizes. *Publications:* Nuclear Weapons and Foreign Policy 1956, A World Restored: Castlereagh, Metternich and the Restoration of Peace 1812-22 1957, The Necessity for Choice: Prospects of American Foreign Policy 1961, The Troubled Partnership: A Reappraisal of the Atlantic Alliance 1965, American Foreign Policy (3 essays) 1969, and over forty articles on U.S. foreign policy, international affairs and diplomatic history. *Address:* Suite 520, 1800 K Street, N.W., Washington, D.C. 20006, U.S.A.

KISTIAKOWSKY, George B(ogdan), DR.PHIL.; American chemist; b. 18 Nov. 1900, Kiev; s. of Bogdan and Mary Kistiakowsky; m. 3rd Elaine Mahoney 1962; one d.; ed. Univ. of Berlin; Int. Research Fellow, Princeton 1926-28; Asst. Prof. 1928-30; Asst. Prof. Harvard Univ. 1930-33, Assoc. Prof. 1933-37, Abbott and James Lawrence Prof. of Chemistry 1937-71, Emer. Prof. 1971-; on leave 1941-45; Chief, Explosives Div., Nat. Defence Research Cttee. 1941-43; Leader, Explosives Div., Los Alamos Project of the Manhattan District, U.S.A. 1944-45; Special Asst. to Pres. Eisenhower for Science and Technology 1959-61; mem. American Philosophical Soc., Nat. Acad. of Sciences (Vice-Pres. 1965-73); Foreign mem. Royal Soc. 1960; Hon. Fellow, The Chemical Soc. (London), Medal for Merit 1946; Nichols Medal of American Chemical Soc. 1947; King's Medal for Service in the Cause of Freedom 1947; Willard Gibbs Medal 1960; Medal of Freedom 1961; C. L. Parsons Award of American Chemical Soc. 1961; Nat. Medal of Science 1967; T. W. Richards Medal 1968; Priestley Award, American Chemical Soc. 1972; Hon. D.Sc. (Harvard, Pennsylvania, Rochester, Oxford and Williams Univs., Carnegie Inst. of Technology, Princeton Univ. and Case Inst. of Technology). *Publications:* Photochemical Processes 1929, A Scientist at the White House 1976. *Address:* Chemical Laboratory, Harvard University, 12 Oxford Street, Cambridge, Mass. 02138, U.S.A. *Telephone:* (671) 495-4083 (Office); (617) 864-9814 (Home).

KITAJ, R. B.; American artist; b. 1932, Ohio; two c.; ed. New York, Vienna and Royal Coll. of Arts, London; has lived in London since 1960; Guest Prof. Univ. of Calif., Berkeley 1967-68, Univ. of Calif., Los Angeles 1970-71; one-man exhbns. in Marlborough New London Gallery 1963, 1970, Marlborough Gerson Gallery, New York, Los Angeles County Museum of Art 1965, Stedelijk Museum, Amsterdam, Museum of Art, Cleveland and Univ. of Calif., Berkeley 1967, Galerie Mikro, Berlin and tour of Fed. Germany 1969-70, Kestner Gesellschaft, Hanover, Boymans-van-Beuningen Museum, Rotterdam 1970, Cincinnati Art Museum, Ohio (with James Dine, *q.v.*) 1973, Marlborough, New York 1974, Marlborough, London, and Marlborough, Zürich 1977; public collections in museums in Australia, Fed. Repub. of Germany, Netherlands, Sweden, Switzerland, U.K. and U.S.A. *Address:* c/o Marlborough Fine Art Ltd., 6 Albemarle Street, London, W.1, England.

KITTANI, Ismat T.; Iraqi international official; b. 5 April 1929, Amadiya; one s.; ed. Knox Coll., Galesburg, Ill.; High School teacher, Iraq; joined Foreign Ministry 1952, Attaché, Cairo 1954-57; Iraqi mission to UN 1957, Acting Perm. Rep. 1958-59; Perm. Rep. to European Office of UN 1961-64; Chief, Specialized Agencies and Admin. Cttee. of Co-ordination Affairs, Dept. of Econ. and Social Affairs, UN Secr. 1964; Sec. Econ. and Social Council 1965-67; Principal Officer, later Dir. Exec. Office of Sec.-Gen. of UN 1967-69; Deputy to Asst. Sec.-Gen. for Inter-Agency Affairs 1969-70; Asst. Sec.-Gen. for Inter-Agency Affairs 1971-73; Exec. Asst. to Sec.-Gen. Sept. 1973-75; Amb., Dir.-Gen. Int. Orgs. and Confs. Foreign Ministry, Baghdad 1975-; fmr. del. of Iraq to various int. comms. and confs.; Gov. Board ILO 1959; alt. mem. Exec. Board WHO 1961. *Address:* Ministry of Foreign Affairs, Baghdad, Iraq. *Telephone:* 30091.

KITTEL, Charles, PH.D.; American professor of physics and author; b. 18 July 1916, New York; s. of George Paul Kittel and Helen Lemler Kittel; m. Muriel Agnes Lister 1938; two s. one d.; ed. Massachusetts Institute of Technology and Univs. of Cambridge and Wisconsin. Prof. of Physics, Univ. of Calif. at Berkeley 1951-; Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Buckley Prize for Solid State Physics, Berkeley Distinguished Teaching Award, Oersted Medal, American Assn. of Physics Teachers. *Publications:* Introduction to Solid State Physics 1953, 5th edn. 1976, Quantum Theory of Solids 1963, Thermal Physics 1969. *Leisure interests:* friends, wine. *Address:* University of Calif., Berkeley, Calif. 94720, U.S.A.

KITTIKACHORN, Field-Marshal Thanom; Thai army officer and politician; b. 11 Aug. 1911, Tak; ed. Wat Kokplu School (Tak) and Military Acad. Bangkok; entered Mil. Survey Dept. as student officer 1931, assigned to Planning Section 1934; Lieut. in Mil. Educ. Dept. 1935, Instructor 1936-38, 1939-41, 1944-46; Capt. 1938, student officer in Infantry School, active service in Shan State 1941; Major 1943, Lieut.-Col. 1944; Instructor Mil. Acad. technical branch 1946-47; Commdr. 21st Infantry Regt. 1947; Colonel, Commdr. 11th Infantry Regt. 1948; Deputy Commdr. 1st Infantry Div. 1949, Commdr. 1950; Major-Gen., Deputy Commdr. 1st Army 1951; Commdr. 1st Army 1954; Lieut.-Gen., mem. Defence Coll. 1955; Deputy Minister of Co-operatives 1955; Asst. C.-in-C. of Army 1957; Deputy Minister of Defence April 1957, Minister Sept. 1957; Prime Minister, Minister of Defence, General 1958; Deputy Prime Minister and Minister of Defence 1959-63; Prime Minister 1963-71, 1972-73; Minister of Defence and Foreign Affairs 1973; Chair. Nat. Exec. Council Dec. 1971-72; Special A.D.C. to King; Chair. United People's Party 1968-73; in U.S.A. 1973-74; detained upon return to Bangkok Dec. 1974; exile in Singapore 1976; returned to Bangkok Sept. 1976; served as monk Sept. 1976-Feb. 1977.

KITZINGER, Uwe, B.LITT., M.A.; British author and specialist in European affairs; b. 12 April 1928, Nuremburg, Germany; s. of late Dr. G. Kitzinger and Lucy Kitzinger; m. Sheila Helena Elizabeth Webster 1952; five d.; ed. Watford Grammar School, Balliol and New Coll., Oxford; Foundation Scholar, New Coll., Oxford; Pres. of Oxford Union 1950; Econ. Section, Council of Europe 1951-58; Research Fellow, Nuffield Coll., Oxford 1956-62, Official Fellow and Investment Bursar 1962-76, Emer. Fellow 1976-; Dean, European Inst. of Business Admin. (INSEAD), Fontainebleau 1976-; Founding Editor, Journal of Common Market Studies 1962-; Visiting Prof. Univ. of West Indies 1964-65; Visiting Prof. and Assoc., Centre for Int. Affairs, Harvard 1969-70; Visiting Prof. Univ. of Paris VIII 1970-73; Adviser to Sir Christopher Soames (Vice-Pres. Comm. of the European Communities) 1973-75; Div. Int. School of Business Man.; Trustee European Foundation for Man. Devt. (Brussels); Council mem. Royal Inst. of Int. Affairs; mem. British Univs. Cttee., Encyclopaedia Britannica. *Publications:* German Electoral Politics 1960, The Challenge of the Common Market 1961, Britain, Europe and Beyond 1964, The Second Try 1968, Diplomacy and Persuasion 1973, The 1975 Referendum (with David Butler) 1976. *Leisure interest:* sailing. *Address:* INSEAD, boulevard de Constance, 77305 Fontainebleau, France (Office); Standlake Manor, near Witney, Oxon., England (Home). *Telephone:* 422-4827 (Office); (086731) 266 (Home).

KIVIMAA, Arvi; Finnish poet and essayist; b. 6 Sept. 1904, Hartola; s. of T. Kivimaa and Lyyli Mytkäniemi Kivimaa; m. 1st Hilkka Ahti, 1931 (died 1955), 2nd Kirsti Arnold 1958; s. d.; Journalist and literary critic 1922-32 and 1934-37; Lecturer in Finnish, Univ. of Greifswald 1932-34; Dir. Tampere Theatre 1937-40; Dir. People's Theatre 1940-49, and Finnish Nat. Theatre 1949-50; Gen. Dir. Nat. Theatre 1950-74; Chair. Finnish PEN 1936 and 1953-55; Vice-Chair. Asscn. Finnish Writers 1941-45; Pres. Scandinavian Theatre Council 1963-69, Hon. Pres. 1974-; mem. Exec. Cttee. of Int. Theatre Inst. 1955-65, Vice-Pres. 1957-65; Pres. Finnish Centre of Int. Theatre Inst. 1954-; Pres. Finnish Theatre Union 1957-; Scandinavian Cultural Comm. 1960-71, Finnish Cttee. of UNESCO 1957-71; Hon. mem. Finnish Dramatists' and Actors' Leagues; Prof. h.c. 1958, Ph.D. h.c. (Helsinki) 1973; Commdr. Order of the Lion of Finland, Commdr. Ordre des arts et des lettres, Officier Légion d'honneur, Commdr. Order of Nordstjärnan (Sweden), Léopold (Belgium), Wihuri Prize 1964, Henrik Steffens Prize (Hamburg) 1971 and orders from Italy, Hungary, Greece and Senegal. *Publications:* Selected Poems: Airut (Herald) 1947, Passacaglia 1950, Sydämen levottomuus (Restless Heart) 1954; Plays: Paula Seijes 1945, Syntymäpäivä (Birthday) 1955; Other works: Lähto ja kotiinpaluu (Farewell and Return) 1938-39, Katu nousee taivaaseen (The Street to Heaven) 1928, Teatterivaeltaja (Pilgrim of the Theatre) 1937, Näyttämön lumous (Magic of the Stage) 1952, To Greece 1956, 1957, The Most Beautiful Poems (selection) 1958, Manhattan 1959, Joenrannan Puu 1961, Nike of Samothrake (poems) 1964, Prokonsuli ja Keisari (poems) 1969, Teatterin Humanismi (speeches) 1972, Kasvoja Valohämystä I-III (essays) 1977, 1978, Suomalainen Requiem (poems) 1975, and contributions to many foreign publs. *Leisure interests:* music, travel. *Address:* Sepänkatu 15B, Helsinki 15, Finland. *Telephone:* 665648.

KJELLIN, Tor Helge, PH.D.; Swedish professor of art; b. 24 April 1885; ed. Uppsala and Lund Univs.; Dozent of Art History, Lund

Univ. 1917-29; Prof. of Art History, Dorpat Univ. 1921-24; Riga Univ. 1929-31; Inspector Karlstad Art and Ethnographic Museum 1928-50; expert on Church restoration, Swedish art, and Russian icons; mem. Swedish and foreign scientific societies. *Publications:* Uno Troili 1815-1875 1917, Medeltida gravvårdsformer i Norden 1918, Två Pietro Longhi-målningar i Sverige 1923, Gust. Rydberg, Skånes målare 1925, En gotl. fabeldjursfunt på Ösel 1926, Marie gloria, en kretensisk ikon 1926, Några romanska gravmonum, i Skåne 1927, Ernst Norlinds konst 1927, Die Kirche zu Karris auf Ösel und ihre Beziehungen zu Gotland 1928, Die Hallenkirchen Estlands und Gotlands 1928, Stilriktn. o. skolor inom det ryska ikonm, åleriet 1928, Aristoteles o. Phyllis 1928, Vergilius i korgen o. [illegible] trollkarl 1929, Om symboler o. emblem i gamla gravvårdar 1930, Lettlands moderna måleri 1930, Latviešu maksla 1932, Icones russes 1933, Chr. Erikssons liv och bildkonst 1934, Två grek-byz. ikoner från Paleologtiden 1934, Karlstads Stads 350-årsjubileum, en Minneskrönika 1934, Lettiska bildhuggare 1935, Glava Kyrkas Historia och Gamla Minnen 1936, Gamla Värmländska Allmogehem och deras Möblering 1936, Thor Fagerkvist, mästaren i Persberg 1939, Värmlands odlingshistoria under 6,000 dr 1939-41, Wermlands Brandstods Bolag 1843-1943 1943, Från Vänern till Västerhavet 1947, Värmländsk konst ock värmländska konstnärer 1947, Prolog vid Hammarö köpings tillblivelse Nydrsnatten 1949 1949, Värmlands och Dalsands kyrkor och kyrkliga konst 1952, Christian Eriksson 1953, Ryska ikoner i svensk och norsk ägo 1956, Nya bidrag till Hammarö kyrkors historia (stavkyrka och blockhuskyrka) 1957, Gravfynden i Köla kyrka 1958, Isac Schiulström, en värmländsk bildsnidare 1958, Nedre Ulleruds Kyrkor 1959, Erik Jonaeus, den värmländske kyrko-målaren 1959. *Address:* Gåvle, Sweden.

KLARE, Hermann, DR.PHIL.; German scientist; b. 12 May 1909, Hameln, Weser; m. Hildegard Hoeder 1935; one s. three d.; ed. Heidelberg and Kiel Univs.; industrial chemist in Bitterfeld, Berlin, Landsberg; employed in the U.S.S.R. 1947-49; Dir. of the Wilhelm Pieck Kunstfaserwerk, Schwarza 1949-53, Section Head 1953-61; Dir. Institut für Faserstoff-Forschung of G.D.R. Acad. of Sciences, Teltow-Seehof 1961-69, Vice-Pres. 1963-68, Pres. 1968-; [illegible] Research Council 1966-; [illegible] Akademie der Naturforscher, Polish Acad. of Sciences, Mongolian Acad. of Sciences, U.S.S.R. Acad. of Sciences; Nat. Prize (Second and Third Class), Vaterländischer Verdienstorden in Bronze and other decorations. *Address:* D.D.R. 1532, Kleinmachow, Philipp-Müller-Allee 112, German Democratic Republic.

KLASEN, Karl Ferdinand, D.IUR.; German banker; b. 23 April 1909, Hamburg; s. of Heinrich and Marianne Treckan Klasen; [illegible] s. two d.; ed. law studies in Freiburg, Berlin and Hamburg; with Deutsche Bank, Hamburg 1935-, Dir. 1948; Pres. Landeszentralbank (Hamburg) 1948-52; [illegible] Management Board Norddeutsche Bank 1952-, Deutsche Bank 1957-; Pres. Deutsche Bundesbank 1970-77; Chair. Supervisory Board, VIAG; [illegible] Board of Dirs. Kreditanstalt für Wiederaufbau 1970-; Gov. for Germany, Int. Monetary Fund, Washington, D.C.; Bundesverdienstkreuz mit Stern und Schulterband 1974, Grosskreuz Verdienstorden 1977. *Address:* VIAG, 5300 Bonn, Gerichtsweg 48, Federal Republic of Germany.

KLASSEN, Elmer Theodore; American government official; b. 6 Nov. 1908, Hillsboro, Kan.; s. of John A. and Mary Klassen; m. 1st Bessie Crooks 1929, 2nd Marie Callahan 1963; one d. (deceased); ed. public schools in California and Harvard Univ. Graduate School of Business Admin.; with American Can Co., (now Continental Can Corpn.) New York City 1925-68, Pres. 1965-68; Deputy Postmaster-Gen. of U.S.A. 1969-71; mem. Board of Govs., U.S. Postal Service 1971-74; Postmaster-Gen. of U.S.A. 1972-74; Benjamin Franklin Award, U.S. Postal Service Award. *Address:* 915 Maple Ridge Road, Palm Harbor, Fla. 33563, U.S.A. (Home).

KLAUS, Josef, LL.D.; Austrian lawyer and politician; b. 15 Aug. 1910, Mauthen, Carinthia; m. Erna Seywald 1936; five c.; ed. Univs. of Vienna, Marburg/Lahn; Sec., Vienna Chamber of Labour 1934-38 (Deputy-Chair. of Political Economy Dept.); with timber trade firm, Vienna 1938-39; [illegible] service 1939-45 (prisoner of war); lawyer, Hallein, Salzburg 1945-49; Gov. of Salzburg 1949-61; Fed. Minister of Finance 1961-63; Fed. Chancellor 1964-70; fmr. Chair. Austrian People's Party. *Address:* Österreichische Volkspartei, 1 Kärntnerstrasse 51, Vienna, Austria.

KLAVENESS, A. Fredrik (Anton Fredrik); Norwegian shipowner; b. [illegible] Nov. 1903, Sandefjord; s. of A. F. Klaveness and Therese Grøn; m. Brita Zahle 1938; two s. two d.; with A. F. Klaveness and Co. A/S 1923-, Chair. 1947-; Chair. Overseas Shipping Co., San Francisco, A. F. Klaveness & Co. Inc., San Francisco, Forsikringsaktieselskapet Vega 1958-; Chair. Board of Reps. Otto Thoresen Shipping Co. A/S; Knight, First Class, Order of St. Olav, Commdr. Order of Vasa (Sweden), Officer, Order of Orange-Nassau (Netherlands). *Address:* Drammensveien 314, 1324 Lysaker, Norway. *Telephone:* 53-79-90.

KLEBE, Giselher; German composer; b. 28 June 1925, Mannheim; s. of Franz Klebe and Gertrud Michaelis Klebe; m. Lore Schiller 1946; two d.; ed. Berlin Conservatoire and with Boris Blacher; Composer in Berlin until 1957; Prof. of Composition and Theory of Music, Nordwestdeutsche Musik-Akademie, Detmold 1957-; mem. Acad. of Arts, Berlin and Hamburg, Bavarian Acad. of Fine Arts 1978; Bundesverdienstkreuz 1970, and several prizes for composition. *Principal works:* Operas: Die Räuber (Schiller) 1957, Die tödlichen Wünsche (Balzac) 1959, Die Ermordung Cäsars (Shakespeare) 1959, Alkmene (Kleist) 1961, Figaro lässt sich scheiden (Ödön von Horvath) 1963, Jakobowsky und der Oberst (Werfel) 1965, Das Märchen von der Schönen Lilie (nach Goethe) 1969, Ein wahrer Held (Synge/Böll) 1975, Das Mädchen aus Domremy (Schiller) 1976, Rendezvous (Sostschenkow) 1977. Ballets: Signale 1955, Menagerie 1958, Das Testament (nach F. Villon) 1970. Orchestral Works: Zwitschermaschine 1950, Deux Nocturnes 1952, Adagio und Fuge (with theme from Wagner's Walküre) 1962, Dritte Sinfonie 1967, Herzschlage (for Beatband and Symphony Orchestra), Konzert für Cembalo mit elektrischen Klangveränderungen und kleines Orchester 1972, Orpheus (Dramatic scenes for orchestra) 1976; Songs: Fünf Lieder 1962, Vier Vocalisen für Frauenchor 1963, Church music: Miserere Nobis 1964, Stabat Mater 1964, Gebet einer [illegible] Seele 1966, Beuge dich, du Menschenseele (after S. Lagerlöf) for Baritone and Organ; Chamber Music: 2 String Quartets 1949, 1963, 2 Solo Violin Sonatas 1952 and 1955, 2 Sonatas for Violin and Piano 1953 and 1974, "Römische Elegien" 1953, Piano Trio Elegia Appassionata 1955, Introitus, Aria et Alleluja for Organ 1964, Quintet for Piano and Strings quasi [illegible] fantasia 1967, Fantasie und Lobpreisung (for organ) 1970, Variationen über ein Thema von Hector Berlioz (for organ and three drummers) 1970, Sonate für Kontrabass und Klavier 1974, "Nenia" for solo violin cello 1975, Sinfonie 1977, Choral und Tedeum for Solo Soprano, Choir and Orchestra 1978. *Address:* 4930 Detmold 1, Bruchstrasse 16, Federal Republic of Germany. *Telephone:* 05231-23414.

KLECATSKY, Dr. Hans, D.IUR.; Austrian lawyer and politician; b. 6 Nov. 1920, Vienna; m.; two d.; in Air Force, Second World War; Clerk in Admin. Courts 1948; Constitutional Dept. of Chancellery 1951; rose to rank of Hofrat in Admin. Courts 1959; Lecturer in Constitutional Law and Politics, Innsbruck Univ. 1964, Prof. of Public Law, Faculty of Jurisprudence and Political Science 1965; Deputy mem. Court of Constitutional Law 1965; Minister of Justice 1966-70. *Publications:* Österreichisches Staatskirchenrecht (with H. Weiler) 1958, Das österr. Zollrecht (with A. Kobzina) 1966, Der Rechtstaat zwischen heute und morgen 1967, Staat und Verkehr 1968, Das Österreichische Bundesverfassungsrecht 1973-74, and other publs. *Address:* Innsbruck, Reithmannstrasse 20, Austria.

KLEENE, Stephen Cole, PH.D.; American mathematician and educator; b. 5 Jan. 1909, Hartford, Conn.; s. of Gustav Adolph and Alice Cole Kleene; m. 1st Nancy Elliott 1942 (died 1970); three s. one d.; m. 2nd Jeanne Steinmetz 1978; ed. Hartford Public High School, Amherst Coll. and Princeton Univ.; Instructor, Univ. of Wisconsin 1935-37, Asst. Prof. 1937-41, Assoc. Prof. 1946-48, Prof. 1948-64, Chair. Dept. of Mathematics 1957-58, 1960-62, Chair. Dept. of Numerical Analysis 1962-63, Cyrus C. MacDuffee Prof. of Mathematics 1964-74, of Mathematics and Computer Sciences 1974-, Dean of the Coll. of Letters and Science 1969-74; Assoc. Prof. Amherst Coll. 1941-42; U.S.N.R. 1942-46; mem. Inst. for Advanced Study 1939-40, 1965-66; Editor Journal for Symbolic Logic 1950-62; Pres. Assn. for Symbolic Logic 1956-58, Int. Union of the History and Philosophy of Science 1961; Chair.-Designate Div. of Mathematical Sciences, Nat. Research Council 1969-72; Guggenheim Fellow, Univ. of Amsterdam 1950, Visiting Prof., Princeton Univ. 1956-57; Nat. Science Foundation Grantee, Univ. of Marburg 1958-59; mem. Nat. Acad. of Sciences. *Publications:* Introduction to Metamathematics 1952, The Foundations of Intuitionistic Mathematics (with Richard E. Vesley) 1965, Mathematical Logic 1967; and articles [illegible] mathematics and mathematical logic in various journals and collections. *Leisure interests:* natural history, conservation. *Address:* University of Wisconsin, Madison, Wis. 53706, U.S.A. *Telephone:* (608) 262-2931 (Office); (231) 2118 (Home).

KLEFFEL, Andreas, DR.JUR.; German business executive; b. 3 July 1916, Schwerin; m.; three s.; ed. legal studies; Chair., Supervisory Board, Deutsche Bank Berlin AG, Berlin; Chair. Deutsche Bank AG. Düsseldorf; Deputy Chair. Bankenvereinigung Nordrhein-Westfalen e. V. Köln, Deutsche Kreditbank für Baufinanzierung AG, Köln, Girmes-Werke AG., Hapag-Lloyd AG, Schiess AG; Dir. Horten AG, Rheinisch-Westfälische Boden-Credit-Bank,

Köln, Credit-Bank, Köln, Stinnes AG, Aktiengesellschaft der Dillinger Hüttenwerke, Deutsche Continental-Gas-Gesellschaft, VEBA, AG., GEFA Gesellschaft für Absatzfinanzierung mbH, Deutsche Gesellschaft für immobilien und Anlagen-Leasing mbH. *Address:* 4000 Düsseldorf, Königsallee 45/47, Federal Republic of Germany.

KLEFFENS, Eelco Nicolaas van, LL.D.; Netherlands diplomatist; b. 17 Nov. 1894, Heerenveen; m. Margaret Helen Horstman 1935; ed. Leiden Univ.; post-war work on shipping questions 1919; mem. League of Nations Secretariat 1919-21; Sec. Board of Dirs. Royal Dutch Petroleum Co. 1921-22; Deputy-Chief Legal Section Ministry of Foreign Affairs 1922-27, Diplomatic Section 1927-29, Chief of Section 1929-39; Minister to Switzerland 1939; Minister of Foreign Affairs 1939-46; leader del. to San Francisco Conf. 1945; Minister without Portfolio and Netherlands Rep. UN Security Council and Econ. and Social Council 1946-47; Ambassador to U.S.A. 1947-50; Minister of State 1950-; Minister to Portugal 1950-56; Pres. Arbitration Tribunal between France, Germany, U.K. and U.S.A. (Bonn-Paris Agreements) 1957-70; Perm. Rep. on NATO Council 1956-58; Pres. 9th Session UN Gen. Assembly 1954; Chief Rep. in the United Kingdom of the European Coal and Steel Community 1958-67. *Publications:* The Relations between the Netherlands and Japan from 1605 1919, The Rape of the Netherlands (also in Spanish, Dutch and German) 1940, Sovereignty in International Law 1953, Hispanic Law 1968. *Address:* Casal de Sta. Filomena, Almoçagême, Colares, Portugal.

KLEIBER, Günther; German politician and electrician; b. 16 Sept. 1931, Eula; m.; two c.; ed. Rostock and Dresden Univs.; joined Sozialistische Einheitspartei Deutschland (SED) 1949, [illegible] Cen. Cttee. 1967-, Cand. mem. Politburo 1967-; Deputy Minister of Electronics 1966; State Sec. for introduction of data processing 1966-71; Deputy Chair. Council of Ministers 1971-; mem. Presidium, Council of Ministers, Minister for Machine and Transport Manufactures 1973-; mem. Volkskammer 1967-; Order Banner der Arbeit and other decorations. *Address:* Am Marx-Engels-Platz 2, 102 Berlin, German Democratic Republic.

KLEIN, David, A.B., A.M., M.B.A.; American diplomatist; b. 2 Sept. 1919, U.S.A.; s. of Samuel and Fannie H. Klein; m. Anne L. Cochran 1953; four s. two d.; ed. Brooklyn Coll., New York, Columbia Univ. and Harvard School of Business Admin.; served in U.S. Army 1941-46; entered foreign service 1947; served in Mozambique and Burma 1947-50, U.S. Embassy, Moscow 1952-54, U.S. Mission, Berlin 1955-58, U.S. Embassy, Bonn 1958-60; Soviet Desk, Dept. of State 1960-62; Asst. for European Affairs to McGeorge Bundy, White House 1962-65; Nat. War Coll. 1965-66; Counsellor, Moscow 1966-68; U.S. Mission, Berlin 1968-74; Asst. Div. ACDA, Washington 1974-75; Exec. Div. American Council [illegible] Germany, John McCloy Fund 1975-, U.S. Minister in Berlin 1971-74; Superior Honor Award, Dept. of State 1964. *Publication:* Basmachi: Study in Soviet Treatment of Minority Peoples 1952. *Leisure interests:* tennis, golf, music, painting. *Address:* 680 Fifth Avenue, New York, N.Y. 10019 (Office); 6 Greenhouse Drive, Princeton, N.J., U.S.A. (Home).

KLEIN, George, M.D., D.SC.; Swedish (b. Hungarian) tumour biologist; b. 28 July 1925, Budapest, Hungary; s. of Henrik Klein and Ilona Engel; m. Eva Fischer 1947; one s. two d.; ed. medical schools at Pécs, Szeged and Budapest, Hungary, and Stockholm, Sweden; Instructor Histology, Budapest Univ. 1945, Pathology 1946; Research Fellow, Karolinska Inst. 1947-49, Asst. Prof. of Cell Research 1950-57; Prof. of Tumour Biology and Head of the Inst. for Tumour Biology, Karolinska Inst. Med. School, Stockholm; Guest Investigator, Inst. for Cancer Research, Philadelphia, Pa. 1950; Visiting Prof., Stanford Univ. 1961; Fogarty Scholar, NIH 1972; Dunham Lecturer, Harvard Med. School 1966; Visiting Prof., Hebrew Univ., Jerusalem 1973-75; Harvey Lecturer 1973; Head of WHO (IRAC) Int. Ref. Centre for Frozen Tumour Strains; mem. WHO Expert Advisory Council on Cancer, Board of Dirs. Swedish Cancer Soc. 1961-, Cttee. on Virology and Immunology, Int. Union against Cancer, Scientific Advisory Council of Swedish Govt., Scientific Advisory Board, Sloan Kettering Inst., American Assn. of Cancer Research, Int. Cttee. Int. Soc. for Cell Biology, Nobel Cttee. on Physiology and Medicine, Research Council Swedish Cancer Soc., Scientific Advisory Council of Swedish Med. Board, Council for Analysis and Projection of American Cancer Soc.; mem. Royal Swedish Acad. of Sciences; Corresp. mem. American Assn. of Cancer Research; Foreign Assoc. Nat. Acad. of Sciences of United States; hon. mem. American Assn. of Immunologists; hon. foreign mem. American Acad. of Arts and Sciences; Fellow, New York Acad. of Science; Editor Advances in Cancer Research; Bertha Goldblatt Teplitz Award (jointly) 1960; Rabbi Shai Shacknai Prize in Tumour Immunology 1972; Bertner Award 1973; Award of American Cancer Soc. 1973; Prize of Danish Pathological Soc.; Harvey Prize 1975; Prize of Cancer Research Inst. 1975; Gairdner Prize 1976; Behring Prize 1977; Annual Award Virus Cancer Program 1977. *Publications:* 350 papers in fields of experimental cell research and cancer research. *Address:* Kottlavagen 10, 181 61 Lidingö, Sweden.

KLEIN, Herbert George; American journalist and government official; b. 1 April 1918, Los Angeles; s. of George J. and Amy Cordes Klein; m. Marjorie Galbraith 1941; two d.; ed. Univ. of Southern Calif; Journalist 1940-42; U.S. Naval Reserve 1942-46; Political Reporter and News Editor, Post Advocate 1946; Feature Writer, San Diego Evening Tribune 1950, Editorial Writer 1951; Chief Editorial Writer, San Diego Union 1951, Editor 1959; mem. office staff of Vice-Pres. Nixon 1959-60; Dir. of Communications for the Exec. Branch 1969-73; publicist and p[illegible] sec. for many of Richard Nixon's election campaigns; Vice-Pres. Corporate Relations Metromedia Inc. 1973-; Trustee, Univ. S. Calif., Los Angeles. *Address:* 5746 Sunset Boulevard, Los Angeles, Calif. 90028 (Office); 3248 Oakdell Lane, Studio City, Calif. 91604, U.S.A. (Home).

KLEINDIENST, Richard Gordon, LL.B.; American lawyer; b. 5 Aug. 1923, Winslow, Ariz.; s. of Alfred R. Kleindienst and the late Gladys Love; m. Margaret Dunbar 1948; two s. two d.; ed. Winslow High School, Univ. of Ariz., Harvard Coll. and Harvard Law School; Law Clerk, Ropes, Gray, Best, Coolidge and Rugg, Boston 1949-50; Partner, Jennings, Strouss, Salmon and Trask, Phoenix, Ariz. 1950-57; mem. Ariz. House of Reps. 1953-54; Partner, Shimmel, Hill, Kleindienst and Bishop, Phoenix 1958-68; Chair. Ariz. State Republican Cttee. 1956; mem. Republican Nat. Cttee. 1956-60, 1960-63; Nat. Dir. of Field Operations, Goldwater for Pres. 1964, Nixon for Pres. 1968; Deputy Attorney-Gen. of U.S.A. 1969-72, Attorney-Gen. June 1972-April 1973; Pres. Fed. Bar Assn. *Leisure interests:* golf, chess, classical music, art. *Address:* 10th Floor, 1100 17th Street, N.W., Washington, D.C. 20036, U.S.A.

KLEINER, Sighardus, DR. THEOL.; Austrian-born ecclesiastic; b. 7 Oct. 1904, Bregenz; s. of Viktor Kleiner and Ida Schwärzler; Priest 1928, Cistercian Monk in Abbey of Mehrerau, Austria 1928; Prior of Hauterive, Switzerland 1939; Gen. Procurator of Cistercian Order 1950, Abbot Gen. 1953-. *Publication:* Dieu premier servi 1975. *Address:* Piazza Tempio di Diana 14, Rome, Italy. *Telephone:* 573-694.

KLEINWORT, Sir Cyril Hugh, Kt.; British banker; b. 17 Aug. 1905, Haywards Heath, Sussex; s. of Sir Alexander Drake Kleinwort, Bt. and Etiennette Girard; m. Elisabeth K. Forde 1933; three d.; ed. privately; Partner, Kleinwort Sons & Co. 1927-61; Chair. North British & Mercantile Insurance Co. 1957-59; Chair. Kleinwort Benson Ltd. 1966-71; Chair. Kleinwort Benson Lonsdale Ltd. 1968-77; Vice-Chair. Commercial Union Assurance Co. Ltd. 1959-75; Chair. of Board, Transatlantic Fund Inc. (of New York) 1959-78; Dir. Kleinwort Benson Investment Trust Ltd. 1961-71; Chair. Cttee. on Invisible Exports 1968-76; Deputy Chair. British Nat. Export Council 1968-72; mem. Advisory Cttee. Queen's Award to Industry 1970-; [illegible] Industrial Policy Group 1971-74, British Overseas Trade Board 1972-76. *Publications:* many articles on finance. *Leisure interests:* sailing, hunting, tennis, golf. *Address:* Eyford House, Upper Slaughter, nr. Cheltenham, Glos., GL54 2JN, England. (Home). *Telephone:* 0451-30380.

KLEMM, Wilhelm Karl, DR.PHIL.; German chemist; b. 5 Jan. 1896, Guhrau, [illegible] Breslau; s. of Wilhelm Klemm and Ottilie John; m. 1st Li Herrmann 1935 (died 1948), 2nd Lina Arndt 1949; ed. Real Gymnasium, Grünberg, and Univ. of Breslau; Asst., Wilhelm Biltz Technische Hochschule, Hanover 1923, Privat Dozent 1927, Titular Prof. 1929; Full Prof. and Dir. Inst. of Inorganic Chemistry, Technical Univ. of Danzig 1933, Univ. of Kiel 1947, Univ. of Münster 1951, Prof. Emeritus 1965; Rector, Univ. of Münster 1957-58; Pres. Int. Union of Pure and Applied Chemistry 1965; Vice-Pres. Int. Council of Scientific Unions 1966; mem. Acads. of Halle, Munich, Göttingen, Vienna and Düsseldorf; Hon. mem. Gesellschaft Deutscher Chemiker (Pres. 1952-54), Soc. Chimique de France, Verein Österreichischer Chemiker, Indian Nat. Acad. of Sciences (Allahabad), Indian Chem. Soc.; Liebig-Denkmünze 1951, Moissan-Médaille 1953, Carl-Duisberg-Plakette 1963, Lavoisier Médaille 1965; Dr. h.c. (Technische Hochschule, Darmstadt, Univs. of Bordeaux, Dijon and Lille); Fed. German Order of Merit 1966. *Publications:* Magnetochemie 1936, Inorganic Chemistry (15th edn.) 1971, Experimentelle Einführung in die Anorganische Chemie (with H. Blitz and W. Fischer) (71st edn.) 1976; also 200 published papers concerning many fields of inorganic chemistry: investigations of fused salts; chemistry of so-called [illegible] elements (especially rare earths); application of magnetic properties on chemical problems; compounds of alkaline metals with non-metals, semi-metals and metals, chemistry of the transition metals; substances with anomalous valency (especially fluorine and oxygen compounds with

high valency); transition of metals to semi-metals; preparation of compounds of alkaline metals with noble metals. *Leisure interest:* music. *Address:* Theresiengrund 22, 44 Münster/Westf., Federal Republic of Germany. *Telephone:* 81414.

KLEPPE, Johan; Norwegian veterinarian and politician; b. 29 Sept. 1928, Bjørnskinn, Andøya; s. of Jon Kleppe and Alvhild Caroliussen Kleppe; m. Inger Johansen 1961; one s. one d.; ed. Veterinary Coll. of Norway; Veterinarian 1954-67, District Veterinarian, Andøy 1963-66, 1973-76, Supervisory Veterinarian 1966; County Veterinarian of North Norway 1976-; mem. Bjørnskinn Municipal Council 1956-64; Deputy Mayor of Andøy 1964-66, Mayor 1966-69, 1975-, mem. Exec. Cttee. Andøy municipality 1964-; Deputy mem. of Parl. 1967; Parl. Under-Sec. of State, Ministry of Agriculture 1967-69; Liberal mem. of Parl. for Nordland 1969, mem. Board of Liberal Parl. faction 1969-, mem. Liberal Party's Cttee. on Oil Policy and EC Cttee., now mem. Principal Planning Cttee.; Minister of Defence 1972-73; mem. Liberal Nat. Exec. 1966-72; fmr. Board mem. Nordland Co. Liberal Asscn.; fmr. Chair. Students Liberal Asscn., Oslo and Bjørnskinn and Andøy Liberal Asscn.; Chair. of Board, Directorate of State Forests 1969-77, Chair. Nat. Council on Sheep-breeding 1969-; Chair. of Board, State Veterinary Laboratory of North Norway 1976-. *Address:* 9490 Risøyhaum, Bjørnskinn, Norway. *Telephone:* 08261123 (Office); Risøyhaum 150 (Home).

KLEPPE, Per; Norwegian politician; b. 13 April 1923, Oslo; Sec., Ministry of Finance 1952-53; with Cen. Bureau of Statistics 1953-54; mem. Research Councils Joint Cttee. 1954-57; Asst. Sec. of State, Ministry of Finance 1957-62, Chair. and Sec. Finance Policy Cttee. 1962-63; Head, Econ. section, EFTA Secr., Geneva 1963-67; Dir. Labour Party Research Office 1967-71; Minister of Commerce and Shipping 1971-72, of Finance 1973-. *Address:* Ministry of Finance, Oslo Dep.; and Arbeiderpartiet, Youngstorget, Oslo, Norway.

KLEPPE, Thomas S.; American politician; b. 1 July 1919, Kintyre, N.D.; m. 2nd Glendora Loew 1958; one s. three d.; ed. Valley City Teachers' Coll; served in U.S. Army, Warrant Officer 1942-46; joined Gold Seal Co. 1946; Treas. 1948-58, Pres. and Treas. 1958-64; Vice-Pres. J. M. Dain and Co. 1964-66; Mayor of Bismarck, N.D. 1950-54; mem. House of Reps. for Second Congressional District, N.D. 1967-71, House Cttee. on Agriculture, House Republican Policy Cttee.; Administrator, Small Business Admin. 1971-75; Sec. of the Interior 1975-77. *Address:* 7100 Darby Road, Bethesda, Md. 20034, U.S.A.

KLIEN, Walter; Austrian concert pianist; b. 27 Nov. 1928, Graz; ed. Music Acad. Vienna; appeared with leading orchestras and conductors; world-wide tours; soloist at musical festivals of Salzburg, Berlin, Vienna, Lucerne, Edinburgh, Israel, Prague, Bonn; Wiener Flötenuhr Award for best Mozart record of year 1969. *Recordings:* numerous albums incl. complete solo piano music of Mozart and Brahms, complete Schubert sonatas. *Address:* Singerstrasse 27, 1010 Vienna, Austria.

KLIKS, Rudolf Rigoldovich; Soviet architect; b. 25 June 1910, Moscow; ed. Kharkov Inst. of Constructional Engineers; Asst. Chief Architect for U.S.S.R. Agricultural Exhbn. 1945-56; Chief Architect and Chief Artist U.S.S.R. Econ. Achievements Exhbn. 1956-60; Chief Architect for U.S.S.R. Chamber of Commerce 1960-. *Principal works include:* stadium to seat 10,000 in Orjonikidze 1937; general plan for the reconstruction of the U.S.S.R. Agricultural Exhbn. 1950-54; designs, displays and interiors of pavilions for about 40 exhbns. in the U.S.S.R. and other countries including: Czechoslovakia 1948, Yugoslavia 1955, Leipzig, German Democratic Republic 1956, Science section of the Soviet Pavilion, Brussels World Exhbn. 1958, Helsinki, Finland 1959, New Delhi Int. Agricultural Exhbn. 1960, Damascus Int. Fair 1961, Pavilion at Trade and Industry Exhbn. in London 1961, Rio de Janeiro 1963, Nehru Commemorative Exhbn., Moscow 1963, Izmir Int. Fair 1964, Pavilion at Montreal Expo 1967. *Publications:* Architecture of the U.S.S.R. Agricultural Exhibition 1954. *Address:* U.S.S.R. Chamber of Commerce, Ulitsa Kuibysheva 6, Moscow, U.S.S.R.

KLIMASZEWSKI, Mieczysław, PH.D.; Polish scientist and politician; b. 26 July 1908, Stanisławów; m. Janina Klimaszewski 1947; one s.; ed. Uniwersytet Jagielloński, Cracow; Scientific Research Work 1931-; Population and Social Welfare Office, Cracow 1939-45; Prof. Extraordinary, Wroclaw Univ. 1946-49; Prof. Jagiellonian Univ., Cracow 1949-, Dir. Inst. of Geography, Head, Dept. of Geomorphology; Rector of Jagiellonian Univ., Cracow 1964-72; Seym 1965-72; Council of State 1965, Vice-Chair. 1965-72; Chair. Cttee. for Research on Problems of Polish Emigrants, Polish Acad. of Sciences 1971-73; Chair. Polish Social Cttee. for Security and Co-operation in Europe 1971-73; Chair. Polonia Asscn. 1967-72; Chair. Scientific Council of Tatra Nat. Park 1972-; Chair. Scientific Council, Inst. of Geography, Polish Acad. of Sciences, Chair. Cttee. of Geographical Sciences; mem. Polish Acad. of Sciences, Finnish Acad. Sciences, Leopoldina Acad. (German Democratic Repub.), Sächsische Akad. der Wissenschaften, Leipzig, Yugoslav Acad. Sciences and Arts, Netherlands Geographical Soc., Soviet Geographical Soc., Finnish Geographical Soc., Hungarian Geographical Soc., Belgian Geological Soc.; Dr. h.c. (Jena) 1965, (Kiev T. G. Shevchenko State Univ.) 1966, (Komensky Univ., Bratislava) 1970, (Alliance Coll., Cambridge) 1972, (St. Andrews) 1973, (Uppsala) 1977, (Silesian Univ. of Katowice) 1977; Commdr. Cross with Star of Order Polonia Restituta; Grand Officier de l'Ordre du Mérite 1967; Order of Banner of Labour 1st Class 1972; A. Humboldt Medal, M. K. Sapper Medal, Patron's Medal, Royal Geographical Soc. 1978. *Publications:* Geomorphological Development of W. Carpathians 1934, 1948, 1965, 1966, Problems of Geomorphological Mapping 1956, 1960, 1963, Geomorphological Studies of Spitsbergen 1960, Geomorfologia Ogólna 1961, The Effect of Solifluction Processes on the Development of Mountain Slopes in the Beskidy 1971, Geomorfologia Polski (editor) 1972, Geomorfologia 1977. *Address:* Ul. Wyspiańskiego 3, 30-035 Cracow, Poland. *Telephone:* 37573.

KLIMOV, Aleksandr Petrovich; Soviet economist and co-operative worker; b. 25 Aug. 1914; ed. Higher Pedagogical Inst. of Applied Econ. and Trade; teacher 1935-38; Principal various co-operative educ. establishments 1938-42; Deputy Dept. Head, Oirot Dist. CPSU Cttee. 1942-43; Chief Educ. Service, Centrosoyouz (Cen. Union of Consumer Co-ops.) 1943-48, Deputy Chair. of Board 1948-53, Chair. of Board 1954-; Chair. Price Cttee. of U.S.S.R. 1953-54; Deputy Minister of Trade 1954; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. Board U.S.S.R. Ministry of Trade; Vice-Pres. Int. Co-operative Alliance; Vice-Pres. U.S.S.R.-G.B. Friendship Soc.; mem. Soviet Peace Cttee., Nat. Cttee. for European Security. *Address:* Centrosoyouz of U.S.S.R., Bolshoi Cherkassky 15, Moscow, U.S.S.R.

KLINE, Nathan Schellenberg, M.A., M.D.; American psychiatrist; b. 22 March 1916, Philadelphia, Pa.; s. of Ignatz and Florence Schellenberg Kline; m. Margot Hess 1943 (divorced 1976); one d.; ed. Swarthmore Coll., Harvard Univ., New York Univ. Coll. of Medicine, New School of Soc. Research, Princeton Univ., Rutgers Univ. and Clark Univ.; Intern and Resident St. Elizabeth's Hospital, Washington, D.C. 1943-44; U.S. Public Health Service 1944-46; Child Psychiatrist, Union County Mental Hygiene Soc. Clinic 1946-47; Veterans Admin. Hospital, Lyons, N.J. 1946-50; Assoc., Columbia Greystone 1947-50; Dir. of Research, Worcester State Hosp., Worcester, Mass. 1950-52; private psychiatric practice, New York 1953-; Dir., Rockland Research Inst., Orangeburg, New York 1952-; Dir. of Div. of Psychiatry, Bergen Pines County Hosp. Paramus, N.J. 1963-75; Asst. Prof. of Clinical Psychiatry Coll. of Physicians and Surgeons, Columbia Univ. 1957-69, Assoc. Prof. 1969-73, Prof. 1973-; Pres. Int. Comm. against Mental Illness 1961-; Contributing Editor and Int. Board of Editors Excerpta Medica 1955-; numerous awards, including Albert Lasker Clinical Research Award 1957, 1964. *Publications:* over 400 books and articles. *Leisure interests:* theatre, literature, travel. *Address:* Rockland Research Institute, Orangeburg, N.Y. 10962 (Office); 165 East 66th Street, New York, N.Y. 10021, U.S.A. (Home).

KLOCHEK, Vasiliy Ivanovich; Soviet foreign trade official; b. 1912; ed. Moscow Economic Inst. and Acad of Foreign Trade; mem. CPSU 1940-; Chief of Section Ministry of Foreign Trade 1946-47; Deputy Commercial Rep. in Hungary 1947-50; Deputy Chief of Dept., Ministry of Foreign Trade 1950-53; Commercial Rep. in Austria 1953-58; Chief of Dept., Ministry of Foreign Trade 1958-63; Commercial Rep. in German Democratic Republic 1963-69; Dir. Main Board U.S.S.R. Ministry of Foreign Trade 1969-; Order of Lenin, Badge of Honour and other decorations. *Address:* U.S.S.R. Ministry of Foreign Trade, Smolenskaya-Sennaya ploshchad 32-34, Moscow, U.S.S.R.

KŁONICA, Leon, AGR. ENG.; Polish politician; b. 10 Nov. 1929, Kraszków, Kielce Voivodship; ed. Higher Agric. School, Olsztyn; Agronomist, State Centre of Agricultural Machines, Pionki 1953-56; Head of Dept. Agric. and Forestry, Presidium of District Nat. Council, Mragowo 1956-62, Deputy Head, then Head of Dept. Agric. and Forestry, Presidium of Voivodship Nat. Council, Olsztyn 1963-67; mem. Polish United Workers' Party (PZPR) 1955-, Sec. PZPR District Cttee., Mragowo 1962-63, Agric. Sec. PZPR Voivodship Cttee., Olsztyn 1971-75, First Sec. of PZPR Voivodship Cttee., Olsztyn 1975-77, PZPR Cen. Cttee. 1975-; Deputy to Seym (Parliament) 1976-; Chair. Gen. Council Cen. Union of Agric. Co-operatives (CZKR) 1977-; Minister of Agric. Dec. 1977-; decorations include Commdr.'s Cross of Order Polonia Restituta. *Address:* Ministerstwo Ronictwa, ul. Wspólna 30, 00-519 Warsaw, Poland.

KLOOS, Andries Hein; Netherlands trade unionist; b. 12 Aug. 1922, Amsterdam; m. J. Adema 1947; ed. secondary school; in accountant's office 1939-42; Netherlands Fed. of Trade Unions 1946-, in admin. depts. 1946-51, Econ. Adviser 1951-54, Deputy Dir. of Scientific Research Bureau 1954-56, Sec. Editor of Netherlands Fed. of Trade Unions, also in charge of social-econ. activities 1956-62, Vice-Pres. 1962-65, Pres. 1965-71; Dir. VARA (broadcasting co.), Hilversum 1971-. *Leisure interest:* gardening. *Address:* VARA, Heuvellaan 33-35, Hilversum, Netherlands.

KLOS, Elmar; Czechoslovak fmr. film director; b. 26 Jan. 1910, Brno; s. of Rudolf and Marie Klos; m. Anne Vopalka 1935; one s. one d.; ed. Faculty of Law, Charles Univ., Prague; Dir., Short Film Studios 1946-47; Head of Creative Art Staff, and Scriptwriter, Barrandov Feature Film Studio 1948-74; Prof. of Film and TV Faculty, Prague Univ. 1956-70; Pres. Czechoslovak Union of Film Artists 1963-66; Awards include State Prize 2nd Class 1960, Gold Prize, Moscow Int. Film Festival 1963, State Prize 1964, Grand Prix, Karlovy Vary Int. Film Festival 1964, U.S. Acad. Award Oscar 1965, New York Film Critics Award 1967, Selznik Prize, U.S. 1966; Honoured Artist 1965, Nat. Artist 1968; Co-Dir. with Ján Kadár (*q.v.*): Únos (Kidnapped) 1952, Smrt si říká Engelchen (Death is Called Engelchen) 1963, Obžalovaný (The Accused) 1964, Obchod na korze (The Shop on the High Street) 1965 (all award-winning films), Touha zvaná Anada (Desire called Anada), Co-Dir. with J. Kadár 1969. *Address:* Strahovská 203, Hradčany, Prague 1, Czechoslovakia. *Telephone:* 536297.

KŁOSKOWSKA, Antonina, PH.D.; Polish sociologist; b. 7 Nov. 1919, Piotrków Trybunalski; d. of Wincenty and Cecylia Kloskow; ed. Łódź Univ; Doctor 1950-54, Docent 1954-66, Assoc. Prof. 1966-74, Prof. 1974-; Expert, UNESCO 1967-; Head, Sociology of Culture Dept., Sociology Inst., Warsaw Univ.; Chair. Cttee. of Sociological Sciences, Polish Acad. of Sciences (PAN) 1972-; corresp. mem. PAN 1973-; Chair. Scientific Council of Inst. of Culture, Warsaw; mem. Board, Cttee. of Communication, Culture and Science, Cen. Board of Polish Sociological Soc.; Medal of 10th and 30th Anniversaries of People's Poland; Gold Cross of Merit, Knight's Cross, Order of Polonia Restituta; Scientific Prize, City of Łódź; Meritorious Teacher of People's Poland 1978. *Publications:* Kultura [illegible] 1964, Z historii i socjologii kultury 1969, Społeczne ramy kultury 1972, Macchiavelli jako humanista na tle włoskiego Odrodzenia. *Leisure interests:* Literature, theatre, music, cinema. *Address:* Instytut Socjologii Uniwersytetu Warszawskiego, Karowa 18, 00-324 Warsaw, Poland.

KLOSOVSKY, Boris Nikodimovich; Soviet physiologist and neurosurgeon; b. 16 March 1898, Stanitsa Otradnaya, Krasnodar territory; s. of Nikodim Aleksandrovich Klosovsky and Kseniya Grigorevna Serebryanaya; m. Zinaida Nikolayevna Kiseleva 1932; one d.; ed. Azerbaizhan Univ; Postgraduate, Leningrad Brain Research Inst. 1925-30; Asst. Head of Laboratory and Clinic, Inst. of Pediatrics 1927-; Head of Dept., Inst. of Neurosurgery 1933-48; Corresp. mem., U.S.S.R. Acad. of Medical Sciences 1952-62, mem. 1962-; mem. Int. Soc. for Parkinsonism Study, Int. Brain Research Org., Moscow Socs. of Morphology, Histology and Embryology, All-Union Physiological Soc., Int. Soviet Psychoneuroendocrinology Soc., Nobel Cttee. on Physiology and Medicine at Karolinska Inst., Board U.S.S.R.-Australia Friendship Soc.; Forty-six medals incl. Order of Red Banner of Labour 1952, State Prize 1952 and highest award of World Org. of the Int. Forum for Neurological Org. *Publications:* 270 works on structure and function of brain, anatomy of nerves, and physiology of vestibular apparatus and related studies; Klosovsky was first to perform bulbotomy. *Leisure interests:* gardening, reading. *Address:* c/o Academy of Medical Sciences of the U.S.S.R., Ul. Solyanka 14, Moscow 109801 (Office); Begovaja II, apt. 19, 125284 Moscow, U.S.S.R. (Home). *Telephone:* 256-35-18 (Home).

KLOSS, Hans, LL.D.; Austrian banker and financial administrator; b. 28 Nov. 1905, Vienna; s. of Rudolf Kloss and Hermine Janda; m. Gertrude Wiedstruck 1952 (deceased); ed. Univ. of Vienna; Mem. of staff Österr. Luftverkehrs AG, Vienna 1927-38; Deutsche Lufthansa AG, Berlin 1939-46; mem. staff Ministry of Finance 1946, Head of Currency Dept. 1951-62; Alt. Exec. Dir. Int. Bank for Reconstruction and Devt., Washington, D.C. 1954-56; Austrian finance expert OEEC/OECD, Paris 1947-63; Govt. Commr. Austrian Nat. Bank 1956-62; Gen. Man. Genossenschaftliche Zentralbank AG 1963-68; mem. Council Vienna Stock Exchange 1963-69; Gen. Man., Chair. Board of Mans., Austrian Nat. Bank 1969-72; Alt. Gov. for Austria, IMF 1969-72; Pres. and Chair. Board of Dirs., Austrian Nat. Bank 1973-78; Gov. for Austria, IMF 1973-78; Senator of Honour Vienna School of Econs., Grand Silver Ribbon Medal of Honour. *Address:* Kupelwiesergasse 11, 1130 Vienna, Austria.

KLOTZ, Irving Myron, PH.D; American professor of chemistry and biochemistry; b. 22 Jan. 1916, Chicago, Ill.; s. of Frank and Mollie Nasatir Klotz; m. Mary S. Hanlon 1966; two s. one d.; ed. Univ. of Chicago; Research Assoc., Northwestern Univ. 1940-42, Instructor in Chem. 1942-46, Asst. Prof. of Chem. 1946-47, Assoc. Prof. of Chem. 1947-50; Prof. of Chem. and Biochemistry 1950-, Morrison Prof. 1963-; Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences; Eli Lilly Award 1949 and Midwest Award 1970 (American Chem. Soc.). *Publications:* Chemical Thermodynamics 1950, 1964, 1972, Energy Changes in Biochemical Reactions 1957, 1967; over 200 research papers. *Address:* c/o Department of Chemistry, Northwestern University, Evanston, Ill. 60201 (Office); 2515 Pioneer Road, Evanston, Ill. 60201, U.S.A. (Home).

KLOTZBACH, Günter, DR.ING.; German engineer and metals executive; b. 16 Feb. 1912, Essen; s. of Dr. Arthur Klotzbach and Elisabeth Koerwer; m. Grete Holtermann 1940; three s.; ed. Goethe Gymnasium, Essen, Univ. de Lausanne and Technische Hochschule, Aachen; with Fried. Krupp Gussstahlfabrik, Essen 1937-46; Asst. to Tech. Direction Friedrich-Alfred-Hütte, then Hüttenwerk Rheinhausen AG, Rheinhausen 1946-59, Technical Man. 1959-62; mem. Directorate, Fried. Krupp, Essen 1963-65; Chair. Management Board Fried. Krupp Hüttenwerke AG 1966-73, Verein Deutscher Eisenhüttenleute, Düsseldorf 1973-. *Address:* Verein Deutscher Eisenhüttenleute, 4 Düsseldorf, Breite Strasse 27 (Office); 433 Mülheim-Speldorf, Tannenstrasse 27, Federal Republic of Germany (Home). *Telephone:* Düsseldorf 8894317 (Office); Mülheim 50813 (Home).

KLYCHEV, Anna Muchamed; Soviet politician; b. 1912; ed. Higher Party School; Soviet Army 1941-45; mem. Communist Party of Soviet Union 1947-; managerial work 1947-51; party and political work 1953-63; Chair. Presidium of Supreme Soviet of Turkmenian S.S.R. 1963-; mem. Bureau of Cen. Cttee. of CP Turkmenian S.S.R.; Deputy Chair. Presidium of Supreme Soviet of U.S.S.R.; mem. Cen. Auditing Comm., CPSU 1966-; Deputy to Supreme Soviet of U.S.S.R. 1966- and of Turkmenian S.S.R. *Address:* Presidium of Supreme Soviet of Turkmenian S.S.R., Ashkhabad, U.S.S.R.

KŁYSZEWSKI, Wacław; Polish architect; b. 7 Sept. 1910, Warsaw; s. of Antoni and Stanisława Kłyszewski; m. Marta Suchanek 1951; ed. Warsaw Polytechnic; Mem., Polish Assn. of Architects (SARP) 1936-; Studio with J. Mokrzyński (*q.v.*) and E. Wierzbicki (*q.v.*) 1936-39; Designer, Office of Rebuilding of the Capital (with Mokrzyński and Wierzbicki) 1945-48; Senior Asst., Warsaw Polytechnic 1945-49; now Collective Judge, SARP; Chief Designer, Warsaw Design Office of Gen. Architecture; First Prizes (with Mokrzyński and Wierzbicki) for: Polish Savings Bank in Warsaw, Polish United Workers' Party Building in Warsaw, Architect's House in Zakopane, Railway Station in Katowice, Museum of Modern Art in Skopje, Yugoslavia; Gold Cross of Merit 1955, Gold Award for Rebuilding Warsaw 1958, Officer's Cross, Order of Polonia Restituta 1964, Order of Banner of Labour, 2nd Class 1969, State Prize 3rd Class 1951, 2nd Class 1955, 1st Class 1974; Hon. Prize, SARP 1968, Prize of Katowice Branch of SARP 1972; Prize of Minister of Construction, 1st Class 1973. *Address:* Ul. Górnośląska 16 m. 15a, 00-432 Warsaw, Poland.

KNAPP, J. Burke; American banker; b. 25 Jan. 1913, Portland, Ore.; s. of Mr. and Mrs. J. B. Knapp; m. 1st F. A. Hilary Eaves 1939 (divorced 1976), two s. two d.; m. 2nd Iris Hay-Edie Johan- [illegible] 1976; ed. Stanford Univ. and Oxford Univ; joined Brown Harriman and Co., Ltd. 1936-40; economist of the Federal Reserve Board, Washington 1940-44; economic adviser to the American Mil. Govt. in Germany 1944-45; Special Asst. on Int. matters to the Chair. of the Board 1945-48; Dir. of Office of Financial and Development Policy, Dept. of State 1948-49; Asst. Economic Dir. of the World Bank 1949-50; economic adviser to the U.S. NATO del. in London 1950-51; U.S. Chair. of the Joint Brazil-U.S. Economic Development Comm., Rio de Janeiro 1951-52; Dir. of the World Bank's operations in Latin America 1952-56; Vice-Pres. of the Int. Bank for Reconstruction and Devt. 1956-72, Senior Vice-Pres. Operations 1972-78; international consultant 1978-. *Leisure interests:* theatre, swimming. *Address:* 4144 River Street N., Arlington, Va. 22207, U.S.A. (Home).

KNAPP, Stefan; British (born Polish) artist; b. 1921; ed. Lwów High School, Cen. School of Art, London, Slade School of Art, London Univ; imprisoned in Siberia 1939-42; fighter pilot in R.A.F. 1942-45; student 1945-50; *Exhibitions:* One-Man Shows London 1947, 1954, 1955, Paris (paintings) 1956, Milan 1957, Pierre Matisse Gallery, New York and Caracas (painting and sculpture) 1958, Middelheim (Belgium) Biennale 1959, Museo de Bellas Artes, Caracas 1960, Estudio Actual, Caracas 1973, for British Council,

Zacheta Palace, Warsaw 1974; Lissone Prize, Milan 1957; inventor of technique of large-scale painting on copper and steel for architectural use; murals include those at Hallfield School, Paddington (London) 1955, Seagram Building, New York, St. Anne's Coll., Oxford 1959, Univs. of Brunswick and Freiburg 1964, New York 1966, Queens Coll., New York 1966, Columbia Univ., New York 1966, Rowney Office Bldg., Berks. 1967, Detroit Art Inst. 1967, Copernicus Univ., Torun, Poland, Johnson Bldg., Amsterdam, Planetarium at Olsztyn, Poland, Lod Airport, Israel; Churchill Fellowship 1972, Knight's Cross of the Order of Polonia Restituta. *Publication:* The Square Sun (autobiography) 1956. *Address:* The Studio, Sandhills, Godalming, Surrey, England. *Telephone:* Wormley 2430.

KNEIP, Richard F.; American politician and diplomatist; b. 7 Jan. 1933, Tyler, Minn.; m. Nancy Pankey; eight s.; ed. Arlington High School, South Dakota State Univ. and St. John's Univ., Collegeville, Minn; owner and operator, Kneip Sales (dairy equipment firm), Salem, S. Dak.; mem. State Senate 1965-71; Governor of South Dakota 1971-79; Amb. to Singapore 1979-; Democrat. *Address:* American Embassy, 30 Hill Street, Singapore 6.

KNIGHT, Douglas Maltland, PH.D.; American educational administrator; b. 8 June 1921, Cambridge, Mass.; s. of Claude Rupert and Fanny Sarah Douglas Brown Knight; m. Grace Wallace Nichols 1942; four s.; ed. Yale Univ; Instructor of English, Yale 1946-47; Asst. Prof. of English Literature, Yale 1947-53; Morse Research Fellow 1951-52; Pres., Lawrence Coll., Appleton, Wisconsin 1954-63; Pres. Duke Univ., Durham, N. Carolina 1963-69; Vice-Chair. Woodrow Wilson Nat. Fellowship Foundation; Chair. Nat. Library Comm. 1966-67; Div. Vice-Pres. Educational Devt., RCA, New York 1969-71, Div. Vice-Pres. Educ. Services 1971-72, Staff Vice-Pres. Educ. and Community Relations 1972-73, Consultant 1973-; Pres. RCA, Iran 1971-72, Dir. 1971-73; Pres. Social Econ. and Educ. Devt. Inc. 1973-, Questar Corpn. 1976-; Dir. Near East Foundation 1975-; numerous hon. degrees. *Publications:* Alexander Pope and the Heroic Tradition 1951, The Dark Gate (poems) 1971; Editor and contrib.: Medical Ventures and the University 1967; Editor: The Federal Government and Higher Education 1960; Joint Editor Twickenham edn. of Iliad and Odyssey (trans. by Alexander Pope) 1965. *Address:* c/o Questar Corporation, New Hope, Pa. 18938 (Office); R3, Box 539, Stockton, N.J. 08559, U.S.A. *Telephone:* (215) 862-5277 (Office); (201) 996-2054 (Home).

KNIGHT, George Richard Wilson, C.B.E., M.A., F.R.S.L., F.I.A.L.; British university professor and author; b. 19 Sept. 1897, Sutton, Surrey; s. of George and Caroline (née Jackson) Knight; ed. Dulwich Coll. and St. Edmund Hall, Oxford; English Master, Dean Close School, Cheltenham 1925-31; Chancellors' Prof. of English, Trinity Coll., Univ. of Toronto 1931-40; Master, Stowe School 1941-46, Reader, subsequently Prof. of English Literature, Univ. of Leeds 1946-62, Prof. Emer. 1962-; Shakespearian productions, Hart House Theatre, Toronto 1931-40; produced and acted in This Sceptred Isle, Westminster Theatre, London 1941; Shakespearian productions and performances, Univ. of Leeds 1946-60; lectured in Jamaica (for British Council) and Univ. Coll. of West Indies 1951; Visiting Lecturer Univ. of Capetown 1952; Lecturer at Univ. of Chicago 1963, Festival Seminars, Stratford (Ont.) 1963, 1967; Lecture-tour, Canadian Univs. 1974, American Univs. 1975; Dramatic recitals, Northcott Theatre, Exeter 1975, 1976, Int. Shakespeare Assn. Congress, Washington 1976, Oxford 1977, Cambridge 1977; Pres. Devonshire Assn. 1971; Hon. Litt.D. (Sheffield) 1967, Hon. D.Litt. (Exeter) 1968; Hon. Fellow, St. Edmund Hall, Oxford 1966. *Publications:* numerous books, articles and essays, etc., including: The Wheel of Fire 1930, The Imperial Theme 1931, The Shakespearian Tempest 1932, The Christian Renaissance 1933, Atlantic Crossing (autobiography) 1936, The Crown of Life 1946, Christ and Nietzsche 1948, Lord Byron: Christian Virtues 1952, The Last of the Incas (play) 1954, Lord Byron's Marriage 1957, Ibsen 1962, The Golden Labyrinth 1962, Shakespearian Production 1964, The Saturnian Quest 1964, Byron and Shakespeare 1966, Poets of Action 1967, Shakespeare and Religion 1967, Gold-Dust (poetry) 1968, Neglected Powers 1971, Jackson Knight: A Biography 1975, Vergil and Shakespeare 1976, Shakespeare's Dramatic Challenge 1977, Symbol of Man 1979. *Leisure interest:* sun-bathing. *Address:* Caroline House, Streatham Rise, Exeter, EX4 4PE, Devon, England. *Telephone:* Exeter 59432.

KNIGHT, Harold Murray, D.S.C., M.COMM.; Australian banker; b. 13 Aug. 1919, Melbourne; s. of W. H. P. Knight; m. Gwenyth Catherine Pennington 1951; four s. one d.; ed. Scotch Coll., Melbourne, and Melbourne Univ; Commonwealth Bank of Australia 1936-40, 1946-55; served Australian Imperial Forces and Royal Australian Navy 1940-46 (awarded D.S.C.); Statistics Div., Research and Statistics Dept. of IMF 1955-59, Asst. Chief 1957-59; Research Economist, Reserve Bank of Australia 1960, Asst. Man. Investment Dept. 1962-64, Man. Investment Dept. 1964-68, Deputy Gov. Reserve Bank of Australia and Deputy Chair. of Bank's Board 1968-75, Gov. and Chair. of Board 1975-. *Publication:* Introducción al Análisis Monetario 1959. *Address:* Reserve Bank of Australia, 65 Martin Place, Sydney, N.S.W. 2000, Australia. (Office).

KNIGHT, John Shively; American newspaper publisher; b. 26 Oct. 1894; ed. Cornell Univ; served in Motor Transport Corps, 113th Inf., and in Army Air Corps, A.E.F. 1917-19; newspaper reporter and exec. 1920-25; Man. Editor Akron Beacon Journal 1925-33, Editor 1933-71, Editorial Chair. 1971-; Editorial Dir. Springfield Sun 1925-27, Massillon Independent 1927-33, Pres. 1933-37; Chair. of Board and Publisher, Miami Herald 1937-67, Editorial Chair. 1967-76, Editor Emer. 1976; Pres. Beacon Journal Publishing Co., Knight Newspapers, Inc. until 1966; purchased and discontinued Miami Tribune 1937; purchased Detroit Free Press 1940, Pres., Editor 1940-67, now Editorial Chair.; fmr. owner, editor, publisher Chicago Daily News 1944-59; Vice-Pres. Charlotte News 1959-; Chief Liaison Officer U.S.-British censorships, London 1943-44; mem. and Past Pres. American Soc. of Newspaper Editors, and Inter-American Press Assn.; fmr. Dir. and Officer of Assoc. Press; Hon. LL.D. (Akron, Northwestern, Ohio State and Kent State; Pulitzer Prize for editorial writing 1968, Gold Medal of Achievement 1972, and several other awards. *Address:* 44 East Exchange Street, Akron, Ohio 44328 (Office); 255 North Portage Path, Akron, Ohio 44303, U.S.A. (Home).

KNIPLING, Edward Fred, B.S., M.S., PH.D.; American agricultural research administrator and entomologist; b. 20 March 1909, Port Lavaca, Tex.; s. of Henry J. and Hulda Rasch Knipling; m. Phoebe Hall Knipling 1934; three s. two d.; ed. Texas A. and M. Univ. and Iowa State Univ; Entomologist, U.S. Dept. of Agriculture (U.S.D.A.) 1931-, various research positions in veterinary and medical problems 1931-42, Dir. Research programme for devt. of control measures for diseases among U.S. and Allied Mil. Forces 1942, Principal Entomologist in charge of Research on Insects Affecting Men and Animals 1946, Dir. of Entomology Research Div. of Agricultural Research Services, U.S.D.A. 1953-71, Science Adviser, Agricultural Research Services, U.S.D.A. 1971-73, retd. collaborator 1974-; mem. Nat. Acad. of Sciences; awards include President's Medal for Merit, U.S. Army Typhus Comm. Medal, U.S. Dept. of Agriculture's Distinguished Service Medal, Rockefeller Public Service Award, Nat. Medal of Science, King's Medal for Services in the Cause of Freedom (U.K.). *Publications:* about 190 scientific articles, principally on entomology. *Leisure interests:* hunting with bow and arrow, fishing, watching sporting events. *Address:* National Agricultural Library, Room 209, Plant Industry Station, Beltsville, Md. 20705 (Office); 2623 Military Road, Arlington, Va. 22207, U.S.A. (Home). *Telephone:* 344-3245 (Office); 527-5668 (Home).

KNIŽKA, Jaroslav, ING.; Czechoslovak politician; b. 25 July 1916, Stehelčeves; s. of Jaroslav and Anna Knížka; m. Jarmila Knížková 1945; one s. one d.; ed. Czech Technical Univ., Prague; Technician, head of building dept., Joint Steel Works Kladno, 1946-51; Head of construction dept., HUKO Košice, Chief Technician 1951-53; Head of Investment Dept., Ministry of the Metallurgical Industry 1953-56; Deputy Dir. New Klement Gottwald Foundries, Kunčice 1956-59; Dir. East Slovak Iron Works, Košice, 1959-69; Minister-Chair. of Federal Cttee. for Transport 1969-71; Amb. Extraordinary and Plenipotentiary, Perm. Rep. of C.S.S.R. at UN Office, Geneva 1971-75; mem. Central Cttee., CP of Slovakia 1966-69; Deputy to Slovak Nat Council 1960-71; Amb. to Greece 1975-78; First Deputy Minister of Foreign Affairs 1978-; Award for Merits in Construction 1958; Order of Labour 1965; Order of February 1976. *Leisure interests:* technical sciences, tennis, photography. *Address:* c/o Ministry of Foreign Affairs, Hradčanské nam. 8, Prague 1, Czechoslovakia.

KNOCHE, Enno Henry, A.B.; American government official; b. 14 Jan. 1925, Charleston, W. Va.; s. of Enno A. Knoche and Norma Randall Knoche; m. Angie Papoulas 1947; five s.; ed. Bethany Coll., Univ. of Colorado, and Washington and Jefferson Coll; served to rank of Lieut. in U.S. Navy 1943-46, 1951-53; joined Cen. Intelligence Agency 1953, Deputy Dir. 1976-77. *Leisure interest:* tennis. *Address:* c/o Central Intelligence Agency, Washington, D.C. 20505, U.S.A.

KNOKE, Karl Hermann; German diplomatist; b. 9 Aug. 1909; s. of Paul and Elisabeth Knoke; m. Ruth Countess Dohna, PH.D. 1941; three s. one d.; ed. Ludwig-Maximilians-Universität, Munich, Sorbonne, Paris, Friedrich-Wilhelms-Universität, Berlin, and Georg-August-Universität Göttingen; Reichs Kreditgesellschaft A.G., Berlin; War Service 1939-45; Land Govt., Hanover 1945-47; Local Govt. Fallingbostel 1947-50; Consul, First-Sec., Counsellor

Athens 1950-54, Chargé d'Affaires a.i., Athens 1952-53; South East-ern European Desk, German Foreign Office 1954-56, Head of Eastern Dept. German Foreign Office 1956-58; Minister Moscow 1958-60, Paris 1960-65; Amb. to Netherlands 1965-68, to Israel 1968-71, to Brazil 1971-73; Head of Del. to Third UN Conf. on the Law of the Sea; Commdr. Légion d'honneur, Grand Officier Ordre du Mérite, Grand Officer Order of Phoenix (Greece), Knight Commander Order of Merit (Fed. Repub. of Germany), Grand Cross of the Order of Orange-Nassau, Grand Cross Order of Cruzeiro do Sul. *Leisure interests:* skiing, golf. *Address:* 53 Bonn-Bad Godesberg, Mozartstrasse 28, Federal Republic of Germany. *Telephone:* 352762.

KNOPF, Alfred A., A.B.; American publisher; b. 12 Sept. 1892, New York; s. of Samuel and Ida Japhe Knopf; m. 1st Blanche Wolf 1916 (died 1966), one s.; m. 2nd Mrs. Helen Norcross Hedrick 1967; ed. Mackenzie School and Columbia Coll; founded publishing firm Alfred A. Knopf Inc. 1915, Pres. 1918-57, Chair. 1957-72, Chair. Emer. 1972-; mem. American Acad. of Arts and Sciences 1976; Hon. L.H.D. (Yale) 1958, (Columbia) 1959, (Bucknell) 1959, (Lehigh) 1960, (Coll. of William and Mary) 1969, (Michigan) 1969, (Bates Coll.) 1971; Hon. LL.D. (Brandeis) 1963; Hon. D.Litt. (Adelphi Univ.) 1966, (Chatanooga) 1966, (Long Island) 1973; Commdr. Ordem Nacional do Cruzeiro do Sul (Brazil); Cornelius Amory Pugsley Gold Medal 1960; Alexander Hamilton Medal (Assen. Alumni, Columbia) 1966; Outstanding Service award (Nat. Parks Centennial Comm.) 1972; Francis Parkman Silver Medal (Soc. of American Historians) 1974; Distinguished Service Award (Assen. of American Univ. Presses) 1975; Distinguished Achievements Award (Drexel Univ. Library School Alumni Assen.) 1975. *Address:* 201 East 50th Street, New York, N.Y. 10022 (Office); 63 Purchase Street, Purchase, N.Y. 10577; U.S.A. (Home).

KNOPOFF, Leon, M.S., PH.D.; American professor of physics and geophysics; b. 1 July 1925, Los Angeles, Calif.; s. of Max Knopoff and Ray Singer; m. Joanne Van Cleef 1961; one s. two d.; ed. Calif. Inst. of Tech; Asst. Prof., Assoc. Prof. of Physics, Miami Univ. 1948-50; mem. staff Univ. of Calif. (Los Angeles) 1950-, Prof. of Geophysics 1959-, of Physics 1961-, Research Musicologist 1963-; Prof. of Geophysics, Calif. Inst. of Tech. 1962-63; Visiting Prof. Technische Hochschule, Karlsruhe (Germany) 1966; Chair. U.S. Upper Mantle Cttee. 1963-71, Sec.-Gen. Int. Upper Mantle Cttee. 1963-71; Assoc. Dir. Inst. of Geophysics and Planetary Physics 1972-; Nat. Science Foundation Senior Postdoctoral Fellow 1960-61; Guggenheim Foundation Fellowship (Cambridge) 1976-77; Visiting Prof., Harvard Univ. 1972, Univ. of Chile, Santiago 1973; Chair. Int. Cttee. on Mathematical Geophysics 1971-75; H. Jeffreys Lecturer, Royal Astronomical Soc. 1976; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Int. Co-operation Year Medal (Canada) 1965, Wiechert Medal, German Geophysical Soc. 1978. *Publications:* The Crust and Upper Mantle of the Pacific Area (editor with others) 1968, The World Rift System (editor with others); chapters in Physics and Chemistry of High Pressures (ed. R. L. Bradley) 1963, Physical Acoustics (ed. W. P. Mason) 1965, The Earth's Mantle (ed. T. Gaskell) 1967, The Megatectonics of Oceans and Continents (ed. H. Johnson and B. L. Smith); papers in professional journals. *Leisure interests:* mountaineering, gardening, playing piano and harpsichord. *Address:* Institute of Geophysics and Planetary Physics, University of California, Los Angeles, Calif. 90024, U.S.A. *Telephone:* 213 825-1580.

KNOWLES, Warren P., LL.B.; American politician; b. 19 Aug. 1908, River Falls, Wis.; s. of Warren P. Knowles and Anna D. Deneen; m. Dorothy Guidry 1943 (divorced 1968); ed. River Falls, Carleton Coll. Minnesota and Univ. of Wisconsin Law School; practising attorney 1933-; on county board 1935-40; U.S. Navy Lieut. in Second World War; mem. State Senate 1941-54 (Republican Floor Leader 1943, 1945, 1947, 1949, 1951, 1953); mem. Judicial Council 1952-53; Lieut.-Gov. of Wis. 1954-63, Gov. 1964-71; Chair. Heritage Wisconsin Corpn. 1970; Co-Chair. Upper Great Lakes Regional Planning Comm.; Vice-Chair. Heritage Bank of Milwaukee 1971-; Dir. many other cos.; Pres. and mem. Board, Mount Mary Coll.; mem. Pres.'s Comm. on School Finance 1971-, Board of Govs., Medical Coll. of Wisconsin; several hon. degrees and awards. *Leisure interests:* hunting, outdoor sports, reading, fishing, travel. *Address:* 401 East Mason Street, P.O. Box 339, Milwaukee, Wis. 53201 (Office); 3039 East Newport Avenue, Milwaukee, Wis. 53211, U.S.A. (Home). *Telephone:* (414) 276-2121 (Office); (414) 961-0474 (Home).

KNOX, Alexander David, B.A.; British economist; b. 15 Jan. 1925, Trinidad, W. Indies; s. of James Knox and Elizabeth Maxwell Robertson; m. Beatrice Dunell 1950; one s. two d.; ed. Univ. of Toronto and London School of Econs. and political Science; Lecturer in Econs., London School of Econs. 1951-54, Reader in Econs. (with special reference to Econs. of Underdeveloped countries) 1955-63; mem. Ceylon Taxation Comm. 1955, East African Comm. of Inquiry on Income Tax 1956-57; Loan Officer, Int. Bank for Reconstruction and Devt. 1963-65, Div. Chief, W. Hemisphere Dept. 1965-66, Asst. Dir. Projects Dept. 1967-68, Dir. Public Utilities Projects Dept. 1968-69; Dir. Transportation Projects Dept. Oct. 1969-72; Dir. Projects Dept., Latin America and the Caribbean 1972-76, Europe, Middle East and N. Africa 1976-. *Publications:* articles in econ. journals. *Leisure interests:* tennis, gardening, opera, theatre. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C. 20433, U.S.A. *Telephone:* (202) 477-4265.

KNOX, H.E. Cardinal James Robert: Australian ecclesiastic; b. 2 March 1914, Bayswater, Perth; s. of J. Knox; ed. St. Ildephonsus Coll., W.A.; ordained Roman Catholic priest 1941; Asst., Pontifical Urban Coll. de Propaganda Fide, Rome 1945-47, Vice-Rector 1947-48; served Secretariat of State, Vatican City 1948-50; served Tokyo 1950-53; consecrated Titular Archbishop of Melitene 1953; Apostolic Del. to British East and West Africa 1953-57; Apostolic Internuncio in India 1957-67; Archbishop of Melbourne 1967-74; cr. Cardinal 1973; Pres. Perm. Cttee. for Int. Eucharistic Congresses 1973-; Prefect, Sacred Congregation for the Discipline of the Sacraments and of Sacred Congr. for Divine Worship (Congregations amalgamated Aug. 1975) 1974-75, of Sacred Congr. for the Sacraments and Divine Worship Aug. 1975-; now also mem. four Sacred Congregations; mem. Council for the Public Affairs of the Church; mem. Pontifical Comms. for Revision of Code of Canon and Oriental Canon Law 1974; mem. Admin. of the Patrimony of the Holy See 1975. *Address:* Sacred Congregation for the Sacraments and Divine Worship, Vatican City State, Rome, Italy.

KNOX, Sir Thomas Malcolm, Kt., M.A., LL.D., D.LITT.; British university principal (retired); b. 1900, Birkenhead; s. of James Knox and Isabella Russell Marshall; ed. Liverpool Inst. and Pembroke Coll., Oxford; in business 1923-31; Fellow and Tutor, Jesus Coll., Oxford 1933-36; Prof. of Moral Philosophy, St. Andrews Univ. 1936-53, Principal 1953-66; Hon. Fellow, Pembroke Coll., Oxford; Gifford Lecturer, Aberdeen 1965-66, 1967-68. *Leisure interest:* music. *Address:* 19 Victoria Terrace, Crieff, Perthshire, Scotland. *Telephone:* Crieff 2808.

KNUDSEN, Conrad Calvert, J.D.; American company executive; b. 3 Oct. 1923, Tacoma, Wash.; s. of Conrad D. and Annabelle Callison Knudsen, m. Julia Lee Roderick 1950; three s. one d.; ed. Washington Univ. and Law School, Seattle, and Columbia Univ., New York, N.Y.; Partner, Bogle, Bogle & Gates law firm, Seattle 1951-60; Exec. Vice-Pres. and Dir. Aberdeen Plywood and Veneer Inc. 1961-63; Pres. and Dir. Evans Products Co. 1963-68; Senior Vice-Pres. Weyerhaeuser Co. 1969-76; Dir. Rainier Nat. Bank, Rainier Bancorporation, Castle & Cooke Inc., Cascade Corpn., Physio-Control Corpn., Terminal Ice and Cold Storage Co., Canada Trust Co., Koninklijke Nederlandse Papierfabrieken N.V. 1969-76; Pres. and Chief Exec. Officer, MacMillan Bloedel Ltd. Sept. 1976–; mem. U.S. and Washington State Bar Asscns. *Address:* MacMillan Bloedel Ltd., 1075 West Georgia Street, Vancouver, B.C., Canada V6E 3R9 (Office); 1589 Matthews Avenue, Vancouver, B.C., Canada V6J 2TI (Home). *Telephone:* 736-2151.

KNUDSEN, Semon Emil; American automobile executive; b. 2 Oct. 1912, Buffalo, N.Y.; s. of William S. and Clara Euler Knudsen; m. Florence Anne McConnell 1938; one s. three d.; ed. Dartmouth Coll. and Mass. Inst. of Technology; with Gen. Motors Corpn. 1939-68, Vice-Pres. and Gen. Man. Pontiac Motor Div. 1956-61, Chevrolet Div. 1961-65, Group Vice-Pres. in charge of Overseas and Canadian Group 1965-68, also responsible for domestic non-automotive divs. 1966-68, Exec. Vice-Pres. (Int. Operations) 1967-68; Pres. Ford Motor Co. 1968-69; Founder, Chair. Rectrans Inc. 1970-71; Chair., Chief Exec. Officer, White Motor Corpn. 1971-, Pres. 1971-75. *Address:* 35129 Curtis boulevard, Cleveland, Ohio 44114 (Office); 2112 Acacia Park Drive, Lyndhurst, Ohio 44124, U.S.A. (Home).

KNUNYANTS, Ivan Lyudvigovich; Soviet organic chemist; b. 4 June 1906, Shusha Nagorna-Karabakh Autonomous region, Azerbaijan; ed. Moscow Higher Technical School; Research worker, Moscow Higher Technical School 1928-31; Assoc. Inst. of Organic Chemistry, U.S.S.R. Acad. of Sciences 1931-54, mem. CPSU 1941-; Maj.-Gen. (Engineers); Chief of Laboratory, Inst. of Elementary Organic Compounds, Acad. of Sciences 1954-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-53, mem. 1953-; State Prizes 1943, 1948, 1950; Hero of Socialist Labour 1966; Lenin Prize 1972, Order of Lenin and other decorations. *Publications:* Methods of Introducing Fluorine into Organic Compounds 1947, The Interaction of Aliphatic Oxides with Hydrogen Fluoride 1947, Modern

Experimental Methods in Organic Chemistry 1960, and other works. *Address:* Institute of Elementary Organic Compounds, U.S.S.R. Academy of Sciences, 28 Ul. Vavilova, Moscow, U.S.S.R.

KNUTH-WINTERFELDT, Count Kield Gustav, LL.D.; Danish diplomatist; b. 17 Feb. 1908, Copenhagen; s. of Count Viggo Christian Knuth-Winterfeldt and Countess Clara Knuth-Winterfeldt (née Grüner); m. Gertrud Lina Baumann 1938 (died 1978); two s. one d.; ed. Univ. of Copenhagen; Danish Foreign Service 1931-, Vice-Consul Hamburg 1935; Sec. of Legation, Tokyo 1938; Sec. Ministry for Foreign Affairs 1939-45, Deputy Chief of Section 1945, Chief 1950; Minister, Argentina 1950; Chief, Commercial Information Dept., Ministry of Foreign Affairs 1954, Deputy Dir. Economic Division 1956; Ambassador to U.S.A. 1958-65, to France 1965-66, to Fed. Repub. of Germany 1966-72; Lord Chamberlain at the Royal Danish Court 1972-76; Grand Cross (Diamonds), Order of Dannebrog; Grand Cross, Order of Merit, (Fed. Rep. of Germany); Officer, Order of George I (Greece), Grand Cross, Order of North Star (Sweden), Grand Officer, Order of Merit (Argentina), Grand Officer, Order of Merit (Chile), Grand Cross, Order of Falcon (Iceland), Hon. G.C.V.O. Grand Cross, Order of St. Olav (Norway), Order of the Yugoslav Flag with Ribbon, Grand Cross, Order of the House of Orange (Netherlands). *Leisure interest:* farming. *Address:* Rosendal, 4640 Fakse, Denmark. *Telephone:* (03) 71-30-34.

KOBAYASHI, Koji, D.ENG.; Japanese business executive; b. 17 Feb. 1907, Yamanashi Prefecture; s. of Tsuneo and Den Kobayashi; m. Kazuko Noda 1935; three d.; ed. Tokyo Imperial Univ.; Senior Vice-Pres. and Dir. Nippon Electric Co. Ltd. 1956-61, Exec. Vice-Pres. and Dir. 1961-62, Sen. Exec. Vice-Pres. and Dir. 1962-64, Pres. 1964-76, Chair. Board and Chief Exec. Officer 1976-; Chair. Board Nippon Electric Yamagata Ltd., Nippon Electric Tohoku Ltd. 1973-, Nippon Aviotronics Co. Ltd. 1969-; Exec. Dir. Fed. of Econ. Orgs. 1966-; Governing Dir. Japan Fed. of Employers Asscns. 1966-; Chair. Space Devt. Promotion Council, Fed. of Econ. Orgs. 1970-; Pres. Japan Inst. of Industrial Eng. 1974-; Vice-Pres. Japan Telecommunication Industrial Fed. 1974-; Foreign Associate of the National Academy of Engineering; Prime Minister's Prize for Export Promotion 1964; Blue Ribbon Medal 1964; Grand Cross (Peru) 1970; Medal of Honour (Paraguay) 1971; Jordan Star with Order 3rd Class 1972, First Class Order of the Sacred Throne (Japan) 1978, Commdr., Orden Nacional del Merito (Paraguay) 1978; IEEE Frederik Philips Award 1977. *Publications:* Carrier Transmission System 1937, Challenge to the Computer Age 1968, The Problem of Management in the 1970s 1971, Quality-Oriented Management 1976. *Leisure interests:* golf and gardening. *Address:* Nippon Electric Co. Ltd., 33-1 Shiba Gochome, Minato-ku, Tokyo 108; and 15-10 Denenchofu 5-chome, Ohta-ku, Tokyo 145, Japan. *Telephone:* 03-721-8581.

KOBAYASHI, Taiyu; Japanese company executive; b. 13 June 1912, Hyogo Prefecture; m. Nagae Sano 1938; two s.; ed. Kyoto Univ.; joined Fuji Electric Co. 1935; joined Fujitsu Ltd. 1935, Dir. 1964, Man. Dir. Nov. 1969, Exec. Dir. 1972, Exec. Vice-Pres. 1975, Pres. 1976-78; Pres. Communications Industries Assen. of Japan 1976-78; Purple Ribbon Award with Medal of Honour, Blue Ribbon Award with Medal of Honour. *Leisure interests:* gardening, golf. *Address:* Fujitsu Ltd., 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo (Office); 674 Nitta Kannami-cho, Tagata-gun, Shizuoka, Japan. (Home).

KOBZAREV, Yuriy Borisovich, D.SC.; Soviet radiophysicist; b. [redacted] Dec. 1905, Voronezh; ed. Kharkov Inst. of Educ.; Senior Research Assoc., Physical-Technical Inst., U.S.S.R. Acad. of Sciences 1926-43; Chair., Prof., Moscow Energy Inst. 1944-55; Research Assoc., Inst. of Radiotechnics and Electrotechnics 1955-, Chair. of Dept. 1968-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-70, Academician 1970-; State Prize 1941, 1949; Order of Lenin (twice) and other decorations. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

KOÇ, Vehbi: Turkish businessman; b. 1901; opened first grocery shop in Ankara 1917; formed Koç Trading Corpn. 1937, General Elektrik Türk 1949, and many other companies; assoc. with numerous major firms in U.S.A. and Europe; Chair. Koç Holding Corpn. 1964-; manufactured Turkey's first passenger car (Anadol) 1966, second (Murat, under licence from Fiat) 1971; Founded Vehbi Koç Foundation 1969, Turkish Educ. Foundation 1969; Order of Merit (Fed. Repub. of Germany) 1974. *Publication:* My Life Story (in Turkish) 1973. *Address:* Koç Holding Corporation, Fındıklı, Ankara, Turkey.

KOCH, Edward I., LL.B.; American lawyer, politician and local government official; b. 12 Dec. 1924, New York; ed. City Coll., City Univ. of New York; served Second World War in U.S. Army; admitted to New York bar 1949, fmr. Sr. partner Koch, Lankenau, Schwartz & Kovner; mem. Council, New York 1967-68, Mayor 1977-; mem. U.S. House of Reps. from New York, 17th District 1969-73, 18th District 1973-77; mem. House Appropriations Cttee.; Sec. New York Congressional Del.; Democratic District Leader, Greenwich Village 1963-65, mem. Village Ind. Democrats. *Address:* City Hall, New York, N.Y. 10007 (Office); Gracie Mansion 88th Street and East End Avenue, New York, N.Y. (Official Residence); 14 Washington Place, New York, N.Y. 10023, U.S.A. (Home).

KOCHESHKOV, Ksenofont Aleksandrovich, DR.SC.; Soviet chemist; b. 12 Dec. 1894, Moscow; ed. Moscow State Univ.; Red Army 1919-21; Teacher, Sverdlov Communist Univ. 1921-24; Lecturer, Moscow Univ. 1924-38, Prof. 1935-; Head, Chemical Dept., All-Union Inst. of Experimental Medicine 1937-45; Head of Metal-organic Lab., Karpov Physico-Chemical Inst. 1946-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-68, Academician 1968-; State Prize 1948, 1967; Order of Lenin (twice) and other decorations. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

KOCHETKOV, Prof. Nikolay Konstantinovich: Soviet chemist; b. 18 May 1915, Moscow; s. of Konstantin Kochetkov and Marie Kochetkova; m. Dr. Vera Volodina 1945; one s. one d.; ed. M. V. Lomonosov Inst. of Light Chem. Technology; Asst. Chem. Dept. of Moscow Univ. 1945-52, Dozent 1952-56, Prof. 1956-60; Head of Dept. of Organic Synthesis, Inst. of Pharmacology 1953-60; Deputy Dir., Head of nucleic acids and carbohydrates laboratory, Inst. of Natural Products 1960-66; Dir., Head of carbohydrates laboratory, Zelinsky Inst. of organic chem. 1966-; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1957-, U.S.S.R. Acad. of Sci[redacted] 1960-; mem. Soc. de Chimie 1972-; Order of Lenin and other decorations. *Publications:* Chemistry of Natural Products 1961, Chemistry of Carbohydrates 1967, Organic Chemistry of Nucleic Acids 1970. *Address:* Zelinsky Institute of Organic Chemistry, Leninsky Prospekt 47, Moscow B-334, U.S.S.R. *Telephone:* 137-29-44.

KOCHMAN, Mohamed Nassim: Mauritanian lawyer, diplomatist and international civil servant; b. 25 Oct. 1932; ed. Petit Lycée, Dakar, Senegal, Van Vollenhoven Lycée, Dakar, Marcel Gambier Coll., Lisieux, France, and Faculty of Law and Economic Sciences, Grenoble, France; Attorney at Law, Court of Appeals, Dakar, 1959-61; First Sec., later First Counsellor, Embassy of Mauritania, Washington and Perm. Mission of Mauritania to UN, New York 1961; Chargé d'Affaires Mauritanian Embassy, Washington, 1962-64; Chief Perm. Mission of Mauritania to UN 1963-64; Alt. Exec. Dir. IBRD, IDA and IFC (rep. of various African States) 1963-64, Exec Dir., Principal Resident Repub. of Mauritania to IBRD 1964-74; Special adviser to Pres. of IBRD 1974-; Mauritanian del. at several world confs. and signatory to int. agreements; mem. World Peace Through Law, Washington, D.C.; decorations from Mauritania, Colombia, Senegal, Chad, Cen. African Empire., People's Repub. of Congo, Niger, Ivory Coast, Gabon, Zaire, Upper Volta, Benin and Madagascar. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C., U.S.A. *Telephone:* DU1-3662.

KOCK-HENRIKSEN, Peder, M.SC.; Danish dairy executive; b. 10 July 1904, Flynder; s. of Niels Henriksen and Andrea Andersen; m. Asta Marie Riisberg 1931; one s. one d.; ed. Danish Technical Univ.; Dir. Minsterley Creameries Ltd., Shropshire, U.K. 1935-39; Managing Dir. Canned Cream and Milk Ltd., Odense 1940-48; Comm., Fed. of Danish Dairy Asscns. 1949-55, Deputy Dir. 1955-58, Joint Man. Dir. 1958-73; Sec.-Gen. 16th Int. Dairy Congress, Copenhagen 1962; Pres. Econ. Comm. of Int. Dairy Fed. 1970-74; del. to numerous confs.; mem. Danish Acad. of Technical Sciences; Knight Order of Dannebrog, Officer Order of Orange-Nassau. *Publications:* Sales Possibilities of Danish Dairy Products 1950, Denmark's Share and Possibilities in the International Trade in Dairy Products 1954, Changes in Eating Habits over the Last Twenty-Thirty Years within the EEC, [redacted]d Specification of Quantities and Development in Consumption of Different Fats in the Diet 1978. *Address:* 59 Dalgas Avenue, 8000 Aarhus C., Denmark. *Telephone:* 06-124624.

KOCSIS, Zoltán; Hungarian pianist; b. 30 May 1952, Budapest; s. of Otto Kocsis and Maria Mátyás; ed. Budapest Music Acad. (under Pál Kadosa); has appeared with Dresden Philharmonic Orchestra in German Democratic Repub., and performed in Fed. Germany, U.S.S.R., Austria and Czechoslovakia 1971; toured U.S.A. together with Dezsö Ranki (*q.v.*) and Budapest Symphony Orchestra (under George Lehel) 1971; recitals in Netherlands, Paris, London and Ireland 1972; concerts in Norway, with Svyatoslav Richter (*q.v.*) in France and Austria, with Claudio Abbado (*q.v.*)

and London Symphony Orchestra and at Promenade Concerts in London, and Festival Estival, Paris 1977, Edinburgh Festival 1978; First Prize, Beethoven Piano Competition, Hungarian Radio and Television 1970, Liszt Prize 2nd Degree 1973, Kossuth Prize. *Publications:* Miscellaneous publs., Arrangements for Piano and 2 Pianos, etc. *Leisure interests:* musical records and tapes. *Address:* 1157 Budapest XV, Hevesi Gyula-utca 33; Interconcert Agency, 1051 Budapest V, Vörösmarty tér I, Hungary. *Telephone:* 128-650 (Agency).

KODAMANOĞLU, Nuri, M.SC.; Turkish politician; b. 16 Aug. 1923, Ulukişla-Niğde; s. of Fazil and Hatice Kodamanoğlu; m. Ayten Unal Kodamanoğlu 1951; ed. Istanbul Univ.; fmr. civil servant, Ministry of Educ.; later Under-Sec. Ministry of Educ.; Deputy to Grand Nat. Assembly; Minister of Energy and Natural Resources 1972-; mem. Business Admin. Inst., Faculty of Political Science, Univ. of Ankara; mem. Board of Dirs. Turkish Petroleum Corpn.; Consultant, Asscn. of Turkish Chambers of Commerce, Chambers of Ind. and Exchange. *Publications:* Principles of New Education 1954, Education in Turkey 1963; various articles and reports. *Leisure interests:* handicrafts, gardening. *Address:* Bükreş Sokak No. 6 Daire 8, Çankaya, Ankara, Turkey. *Telephone:* 27-15-15.

KODERA, Shinrokuro, B.ECONS.; Japanese business executive; b. 14 Dec. 1918, Sumiyoshi, Hyogo Pref.; s. of Gengo and Hisa Kodera; m. Kimiko Sakahara 1963; ed. Keio Univ.; joined Dainippon Spinning Co. Ltd. 1941; Dir. Unitika Ltd. 1970, Man. Dir. 1972, Deputy Pres. 1973, Pres. 1974-. *Leisure interest:* golf. *Address:* Unitika Ltd., 4-68, Kitakyutaro-machi, Higashi-ku, Osaka 541, Japan.

KODJO, Edem; Togolese politician and administrator; b. 23 May 1938, Sokodé; ed. Coll. Saint Joseph, Univ. of Rennes, Ecole Nat. d'Administration, Paris; worked as administrator for Office de Radiodiffusion-Télévision Française (ORTF) 1964-67; returned to Togo 1967; Sec.-Gen., Ministry of Finance, Economy and Planning 1967-72; Dir.-Gen. Société Nat. d'Investissement 1972-73; Administrator, Banque Centrale des Etats de l'Afrique de l'Ouest 1967-76, Pres of Admin. Council 1973-76; Minister of Finance and Economy 1973-76, of Foreign Affairs 1976-77, of Foreign Affairs and Co-operation 1977-78; Sec.-Gen. of the OAU Aug. 1978-; mem. Rassemblement du Peuple Togolaise (RPT), RPT Political Bureau (Sec.-Gen. 1967-71); Gov. for IMF Aug. 1973-; fmr. Chair. OAU Council of Ministers, Afro-Arab Perm. Comm. on Co-operation, OAU Cttee. of Ten; Officier, Légion d'honneur; decorations from many African countries. *Address:* General Secretariat of the Organization of African Unity, P.O. Box 3243, Addis Ababa, Ethiopia; c/o Ministère des Affaires Etrangères et de la Coopération, Lomé, Togo.

KOECHLIN, Dr. Samuel; Swiss business executive; b. 29 March 1925; ed. Univs. of Basel and Paris and London School of Econs.; fmrly. with New York Agency of Swiss Credit Bank; joined Geigy Co. Inc., New York 1952, J. R. Geigy, S.A., Basel 1954; Chair. Exec. Cttee. J. R. Geigy, S.A. 1965-68, CIBA-Geigy Ltd. 1970-; Chair. Exec. Cttee. 1970. *Address:* CIBA-Geigy Ltd., Basel, Switzerland.

KOELLE, George Brampton, PH.D., M.D.; American pharmacologist; b. 8 Oct. 1918, Philadelphia, Pa.; s. of Frederick C. Koelle and Emily M. Brampton; m. Winifred J. Angenent, M.D. 1954; three s.; ed. Univ. of Pennsylvania and Johns Hopkins Univ.; Bio-Assayist, LaWall and Harrisson Labs. 1939-42; Laboratory Instructor in Biological Assaying and Pharmacology, Philadelphia Coll. of Pharmacy and Science 1939-42; Chalfont Fellow in Ophthalmology, Wilmer Inst., Johns Hopkins Univ. and Hospital 1946-50; Asst. Prof. of Pharmacology, Coll. of Physicians and Surgeons, Columbia Univ. 1950-52; Prof. of Pharmacology, Graduate School of Medicine, Univ. of Pa. 1952-, Chair. Dept. of Pharmacology 1959-; Visiting Prof. and Guggenheim Fellow, Univ. of Lausanne 1963-64; Visiting Prof. and Acting Chair. Dept. of Pharmacology and Assoc. Dir. of Penn Team, Pahlavi Univ., Iran 1969-70; Visiting Prof. Mahidol Univ., Bangkok 1978; mem. Nat. Acad. of Sciences, A.A.A.S. (Vice-Pres. 1971), American Soc. of Pharmacology (Pres. 1965), Int. Union of Pharmacology (Vice-Pres. 1969-72); Hon. D.Sc. (Philadelphia Coll. of Pharmacy and Science), Hon. D.Med. (Univ. of Zürich); Borden Award 1950, Univ. of Turku Memorial Medal 1972, and other awards and prizes. *Publications:* more than 150 papers on pharmacology, histochemistry and electron microscopy. *Leisure interests:* Sherlock Holmes, ornithology. *Address:* University of Pennsylvania School of Medicine, Department of Pharmacology, Philadelphia, Pa. 19174 (Office); 205 College Avenue, Swarthmore, Pa. 19081, U.S.A. (Home). *Telephone:* 215 243-8416 (Office); 215 K14-4566 (Home).

KOENIGSWALD, G. H. Ralph von, DR.PHIL.; Netherlands palaeoanthropologist; b. 13 Nov. 1902, Berlin, Germany; s. of Gustav Adalbert von Koenigswald and Martha Jacobi; m. L. S. L. Beyer; one d.; ed. Univs. of Berlin, Tübingen, Cologne and Munich; Asst., Geological Museum, Munich 1928-30; Palaeontologist Geological Survey for the Dutch East Indies, Bandung, Java 1930-48; Prof. of Palaeontology, State Univ., Utrecht 1948-68, Prof. Emer. 1968-; Research Assoc., Carnegie Inst. of Washington 1939-41; Pithecanthropus and Meganthropus finds in Java 1936-41, Hong Kong 1935, Peking 1939; discovered Gigantophithecus; with Rockefeller and Viking Fund Grant in New York's American Museum of Nat. History 1946-48, fieldwork in the Philippines, East Africa and Pakistan; now Curator, Div. of Palaeoanthropology, Senckenberg-Museum, Frankfurt/M; mem. Royal Netherlands Acad. of Sciences; Foreign Assoc. Nat. Acad. of Sciences, U.S.A.; Life mem. New York Acad.; Foreign mem. Österreichische Akad. der Wissenschaften; Dr. h.c. (Gadjah Mada Univ., Indonesia) 1976; Huxley Medal, Anthropological Inst. (U.K.); Golden Anandale Medal, Royal Asiatic Soc., Calcutta; Darwin Medal, Akademie Leopoldina, etc. *Publications:* Begegnungen mit dem Vormenschen 1956, Geschichte des Menschen 1968 and about 220 scientific publicaitons in the fields of geology, palaeontology, Early Man, prehistory, ethnology. *Leisure interests:* ethnology, primitive art. *Address:* Senckenberg-Museum, Senckenberganlage 25, 6 Frankfurt/M, Federal Republic of Germany.

KOESTLER, Arthur, C.B.E., C.LIT., F.R.S.L.; British (naturalized) author; b. 5 Sept. 1905, Budapest; s. of Henrik and Adela Koestler; m. 1st Dorothy Ascher 1935, 2nd Mamaine Paget 1950, 3rd Cynthia Jefferies 1965; one d.; ed. Vienna Univ.; Foreign corresp. in Middle East, later Paris, of Vossische Zeitung 1926-30; mem. editorial staff Ullstein's, Berlin 1930-32; corresp. U.S.S.R., travelled Soviet Central Asia 1932-33; freelance, Paris, London, Zürich 1933-36; News Chronicle Special Corresp. Spanish Civil War, Egypt, Palestine, etc. 1936-48; served as private in French and British Armies; mem. U.S. Acad. of Arts and Sciences 1977-; Sonning Prize, Univ. of Copenhagen 1968; Hon. LL.D. (Queen's, Canada); Hon. D.Litt. (Leeds); C.Lit. 1974. *Publications:* Spanish Testament 1938, The Gladiators 1940, Darkness at Noon 1941, Scum of the Earth 1941, Arrival and Departure 1943, The Yogi and the Commissar 1945, Twilight Bar (play) 1945, Thieves in the Night 1946, Insight and Outlook 1948, Promise and Fulfilment 1949, The God that Failed (jointly) 1950, The Age of Longing 1950, Arrow in the Blue 1952, The Invisible Writing 1954, The Trail of the Dinosaur 1955, Reflections on Hanging 1956, The Sleepwalkers 1959, The Lotus and the Robot 1960, Suicide of a Nation? (editor) 1963, The Act of Creation 1964, The Ghost in the Machine 1967, Johannes Kepler (for Encyclopaedia of Philosophy) 1967, Drinkers of Infinity 1968, Beyond Reductionism—The Alpbach Symposium (with J. R. Smythies) 1969, The Case of the Midwife Toad 1971, The Roots of Coincidence 1972, The Call Girls 1972, The Challenge of Chance (with Sir Alister Hardy and Robert Harvie) 1973, The Heel of Achilles 1974, Humour and Wit (article in Encyclopedia Britannica) 1974, The Thirteenth Tribe 1976; Life After Death (with Arnold Toynbee and others) 1976; Janus—A Summing Up 1978. *Leisure interests:* chess, boating, good wine. *Address:* c/o A. D. Peters, 10 Buckingham Street, London, W.C.2, England.

KOGA, Issac, PH.D.; Japanese radio engineer; b. 5 Dec. 1899; ed. Univ. of Tokyo; Asst. Prof. Tokyo Inst. of Technology 1929-39, Prof. 1939-58; Prof. Emeritus 1960; Prof. Univ. of Tokyo 1944-60, Dean of Engineering 1958-60; Prof. Emeritus 1960; Vice-Pres. Int. Scientific Radio Union, Brussels 1957-63, Pres. 1963-66; Pres. Inst. of Elect. Communication Engineers of Japan 1947-48; Pres. Inst. of Electrical Engineers of Japan 1957-58; mem. Technical Advisory Cttee. Nat. Broadcasting Corpn. 1951-66; mem. Advisory Cttee. for Radio Administration, Ministry of Posts and Telecommunications 1963-, Chair. 1970; Pres. Int. Telecommunication Union (ITU) Assen. of Japan 1971-; mem. Advisory Comm. for Nat. Language, Ministry of Educ. 1961-; mem. Cen. Council for Educ., Ministry of Educ. 1967-71; mem. The Japan Acad. 1976-; Hon. mem. Inst. of Electrical Communication Engineers of Japan 1964, Inst. of Electrical Engineers of Japan 1965; Fellow, Inst. of Electrical and Electronics Engineers, New York 1957; Order of Cultural Merit 1963; First Class Order of the Sacred Treasure 1970; C. B. Sawyer Memorial Award 1970. *Major works include:* invention of crystal plates of zero frequency-temperature coefficient, investigation on piezoelectric oscillating crystal and quartz crystal circuit (Japan Acad. of Sciences Prize) 1948, frequency demultiplier by [redacted] of a vacuum tube circuit. *Address:* 17-5, 2-chome Aobadai, Meguro-ku, Tokyo 153, Japan. *Telephone:* (Tokyo) 461-3395.

KOGAN, Leonid Borisovich; Soviet violinist; b. 14 Oct. 1924, Dnepropetrovsk, Ukraine; ed. Moscow Conservatoire under Abram Yampolsky; Prof., Moscow Conservatoire; plays music of Bach, Mozart, Vivaldi, Brahms, Tchaikovsky, Prokofiev, Shostakovich;

numerous world tours; mem. CPSU 1954-; Moscow Conservatoire Lecturer 1952-63, Prof. 1963-; Honoured Artist of the R.S.F.S.R. 1955; People's Artist of the U.S.S.R.; Lenin Prize 1965; Order of the Red Banner and other decorations. *Address:* State Concert Association of the U.S.S.R., 15 Neglinnaya, Moscow, U.S.S.R.

KOH, Tommy Thong Bee, LL.M.; Singapore law teacher and diplomatist; b. 12 Nov. 1937, Singapore; s. of Koh Han Kok and Tsai Ying; m. Siew Aing 1967; two s.; ed. Univ. of Singapore, and Harvard and Cambridge Univs.; Asst. Lecturer, Univ. of Singapore 1962-64, Lecturer 1964-; Sub-Dean, Faculty of Law, Univ. of Singapore 1965-67, Vice-Dean 1967-68; Visiting Lecturer, State Univ. of New York at Buffalo 1967; fmr. Legal Adviser to trade unions in Singapore and fmr. Sec. Inst. of Int. Affairs, Singapore; Amb. and Perm. Rep. of Singapore to UN 1968-71, concurrently High Commr. to Canada 1969-71; Dean, Faculty of Law, Singapore Univ. 1971-74; Amb. and Perm. Rep. to UN, High Commr. to Canada 1974-; Adrian Clarke Memorial Medal, Leow Chia Heng Prize. *Publications:* law articles in Malaya Law Review and Malayan Law Journal. *Leisure interests:* sport, reading, music. *Address:* Permanent Mission of Singapore to the United Nations, 1 United Nations Plaza, 26th Floor, New York, N.Y. 10017, U.S.A.

KOHL, Helmut, DR.PHIL.; German politician; b. 3 April 1930, Ludwigshafen; s. of Hans and Cecilie Kohl; m. Hannelore Renner 1960; two s.; ed. Univs. of Frankfurt and Heidelberg; Mem. of man. of an industrial union 1959; Chair. Christian Democrat Party (CDU), Rhineland-Palatinate 1956, Deputy Chair. CDU Deutschlands 1969-73, Chair. 1973-79; Minister-Pres. Rhineland-Palatinate 1969-76; CDU candidate for Chancellor 1976; Leader of the Opposition in the Bundestag 1976-79. *Address:* 6700 Ludwigshafen/Rhein, Tirolerstrasse 41, Federal Republic of Germany. *Telephone:* 572398.

KOHL, Michael, DR.JUR.; German diplomatist; b. 28 Sept. 1929, Sonderhausen; ed. Univ. of Jena; Lecturer in Völker- und Staatsrecht, Friedrich-Schiller-Universität, Jena 1956-; State Sec., G.D.R. Council of Ministers 1965-; Chief G.D.R. negotiator in intra-German discussions; Head of Permanent G.D.R. Mission to Fed. Repub. of Germany 1974-78; Cand. of Zentrale Revisionskommission der Sozialistische Einheitspartei Deutschlands (SED) 1971-, Cand. mem. SED Cen. Cttee 1976-; Vaterländischer Verdienstorden in Bronze, Silver and Gold and other decorations. *Address:* c/o Ministry of Foreign Affairs, Berlin, German Democratic Republic.

KOHLER, Foy D., B.S.; American diplomatist; b. 15 Feb. 1908, Oakwood, Ohio; s. of Leander David and Myrtle McClure Kohler; m. Phyllis Penn 1935; ed. Toledo and Ohio State Univs.; joined Foreign Service 1931; Vice-Consul, Windsor (Canada) 1932, Bucharest 1933-35, Belgrade 1935; Legation Sec. and Vice-Consul Bucharest 1935-36, Athens 1936-41, Cairo 1941; Specialist Dept. of State 1941-44, Asst. Chief Div. of Near Eastern Affairs 1944-45; London Embassy and Adviser to U.S. Del. UNRRA Council 1944; Political and Liaison Officer to U.S. Del. San Francisco Conf. 1945; Sec.-Gen. U.S. Greek Elections Mission 1945-46; studies at Cornell Univ. and Nat. War Coll. 1946; 1st Sec. Moscow 1947, Counsellor 1948, Minister 1948; Chief Int. Broadcasting Div. Dept. of State 1949; Dir. Voice of America 1949-52; Counsellor Ankara 1953-56; seconded to Int. Co-operation Admin. (ICA) 1956-58; Deputy Asst. Sec. of State 1958-59, Asst. Sec. of State (European Affairs) 1959-62; Amb to U.S.S.R. 1962-66; Deputy Under Sec. of State 1966-68; Prof., Univ. of Miami 1968-78; [redacted] Board Int. Broadcasting 1974-78; Consultant, 1978-; Dir., Advanced Int. Studies Inst., Washington, D.C. 1978-; Consultant, Dept. of State 1968-; D.Hum. (Ohio State), LL.D. (Univ. of Toledo, Ohio). *Publications:* Understanding the Russians—A Citizen's Primer 1970; Co-author Science and Technology [redacted] Instrument of Soviet Policy 1972, Convergence of Communism and Capitalism 1973, Soviet Strategy for the 1970s: From Cold War to Peaceful Coexistence 1973, The Role of Nuclear Forces in Current Soviet Strategy 1974, The Soviet Union—Yesterday. Today, Tomorrow 1975, Custine's Eternal Russia 1976, War Survival in Soviet Strategy—U.S.S.R. Civil Defence (foreword) 1976. *Leisure interests:* golf and swimming. *Address:* 215 Golf Club Circle, Village of Tequesta, Jupiter, Fla. 33458, U.S.A. *Telephone:* (305) 746-7742.

KOHLI, Admiral Sourendra Nath, B.A., P.V.S.M., P.B.; Indian naval officer; b. 21 June 1916, Amritsar; s. of B. L. Kohli; m. Somitra Khanna 1946; three d.; ed. St. Stephen's Coll., Delhi; commissioned 1938; [redacted] service, Persian Gulf and Andamans 1939-42; instructor, communications officer, officer-in-charge, signal school 1943-48; commanded I.N.S. Rana 1949-50; Dir. Naval Plans 1951-52, 1957; Capt. 22nd Destroyer Squadron 1953-55; Naval Adviser, London 1955-57; Commdr. Supt. Naval Dockyard, Bombay 1961-62; Chief of Material, Naval H.Q. 1963-64; Rear-Adm. 1965; Deputy Chief of Naval Staff 1964-67; Flag Officer, Indian (Western) Fleet 1967-69; Vice-Adm. 1969; Commdt. Nat. Defence Coll., New Delhi 1969-71; C.-in-C. Western Naval Command 1971-73; Chief of Naval Staff 1973-79; Param Vishisht Seva Medal 1968, Padma Bhushan 1972. *Leisure interests:* sailing, golf. *Address:* Naval Headquarters, New Delhi 110011, India. *Telephone:* New Delhi 371400.

KOHN, Walter, PH.D.; American professor of physics; b. 9 March 1923, Vienna, Austria; s. of Solomon Kohn and Gusti Rappaport; m. 1st Lois Mary Adams 1948 (divorced); three d.; 2nd Mara Schiff 1978; ed. Toronto and Harvard Univs.; served with Canadian Infantry 1944-45; Instructor Harvard Univ. 1948-50; Asst. Prof., Assoc. Prof., then Prof., Carnegie Inst. of Tech. 1950-59; Prof. Univ. of Calif. at San Diego 1960-, Chair. Dept. of Physics 1961-63; Visiting Prof., Univs. of Mich. and Pennsylvania 1957-58, Imperial Coll. of Science and Tech. London 1960; Nat. Research Council Fellow, Inst. of Theoretical Physics, Copenhagen 1951-52; Guggenheim Fellow and Visiting Prof. Ecole Normale Supérieure Paris 1963-64; Nat. Science Foundation Senior Postdoctoral Fellow Univ. of Paris 1967; Councillor-at-Large, American Physical Soc. 1968-72; Visiting Prof. Hebrew Univ., Jerusalem 1970; Fellow American Acad. of Arts and Sciences; mem. Nat Acad. of Sciences; Hon. LL.D. (Toronto); Oliver E. Buckley Prize in Solid State Physics 1960; Davisson-Germer Prize in Surface Physics 1977. *Publications:* Articles in Physical Review, Reviews of Modern Physics, etc. 1945-. *Leisure interests:* flute, reading, sports. *Address:* Department of Physics, University of California, San Diego, La Jolla, Calif. 92093, U.S.A. *Telephone:* (714) 452-3267.

KOHNSTAMM, Max, M.A.; Netherlands educationist; b. 22 May 1914, Amsterdam; m. Kathleen Sillem 1944; two s. three d.; ed. Amsterdam Univ., American Univ. of Wash., D.C.; Political prisoner 1942-44; Private Sec. to H.M. Queen Wilhelmina 1945-48; Head German Bureau, Dir. European Affairs, Ministry of Foreign Affairs 1948-52; Vice-Pres. Netherlands del. during negotiations concerning Schuman Plan; Sec. to High Authority, European Coal and Steel Community 1952-56; Vice-Pres. Action Cttee. for United States of Europe 1956-; Pres. European Community Inst. for Univ. Studies 1958-, European Univ. Inst. of Florence 1973-; Hon. LL.D. (Westminster Coll., Missouri) 1963. *Publications:* include The European Community and its Role in the World 1963, Weltorganisationen 1970, Unity of the Church—Unity of Mankind 1971. *Leisure interests:* tennis walking. *Address:* European University Institute, Badia Fiesolana, Via dei Roccettini 5, 50016 San Domenico di Fiesole, Florence, Italy. *Telephone:* (055) 477-931.

KOHRT, Günter; German diplomatist and politician; b. 11 March 1912, Berlin; Mem. of Communist Party 1945, of Socialist Unity Party (SED) 1946-; posts concerned with public educ., City Council of Greater Berlin 1945-49; Ministry of Foreign Affairs, German Democratic Repub. 1949-; post in Dept. of Foreign Policy of Cen. Cttee. of SED 1958-64; Amb. to People's Repub. of China 1964-66; Sec. of State and First Deputy Foreign Minister 1966-73; Amb. to Hungary 1973-; Vaterländischer Verdienstorden (in Silver and Gold), Order Banner der Arbeit and other decorations. *Address:* c/o Ministry of Foreign Affairs, Berlin, German Democratic Republic.

KOHT, Paul; Norwegian diplomatist; b. 7 Dec. 1913, Baerum; s. of the late Halvdan Koht and Karen Grude; m. Grete Sverdrup 1938; two s. one d.; ed. Oslo Univ.; entered foreign service 1938; served Bucharest 1938-39, Ministry of Foreign Affairs 1939-40, London 1940-41, Tokyo 1941-42, New York 1942-46, Ministry of Foreign Affairs 1946-50, 1953-56, Lisbon 1950-51, Paris 1951-53, Denmark 1956-58; Amb. to U.S.A. 1958-63, to Fed. Repub. of Germany 1963-68, to U.K. and Ireland 1968-75, to Denmark 1975-. *Address:* Norwegian Embassy, Trondhjems Plads 4, Copenhagen Ø; Øster Allé 33, Copenhagen Ø, Denmark.

KOIKE, Shinzo; Japanese politician and business executive; b. 1903, Takayama City, Gifu Pref.; s. of Suekichi and Kinu Hirose; me. Chieko Koike 1929; one d.; ed. Tokyo Univ.; Ministry of Communications 1928, later Chief, Accounting Section, Ministry of Transportation and Communications Secr.; Dir. Sapporo Communications Bureau, Electric Power Bureau, Ministry of Commerce and Industry; Chief Dir. Central Japan Industrial League 1950-63; [redacted] House of Councillors 1950-74; Parl. Vice-Minister of Int. Trade and Industry 1950-54; Minister of Posts and Telecommunications 1963-64; Chair. Board of Dirs. Kokusai Denshin Denwa Co. Ltd. 1975-; Liberal-Democratic Party. *Publication:* An Outline of the Electric Power Decree. *Leisure interest:* appreciation of fine arts. *Address:* No. 17-6, Jingumae 3-chome, Shibuya-ku, Tokyo, Japan. *Telephone:* (402) 0088.

KOIRALA, Bisweswar Prasad (half-brother of M. P. Koirala, *q.v.*); Nepalese politician; b. 1915; ed. Banares and Calcutta Univs.;

Pres. Nepali Congress Party (banned 1960); Minister for Home Affairs 1951; Prime Minister 1959-60; imprisoned 1960-68; in exile in India 1968-76; returned to Nepal Dec. 1976; arrested Dec. 1976, charged with attempts to overthrow govt.; reported condemned to death at secret trial April 1977; permitted to leave Nepal June 1977; arrested on return Nov. 1977; acquitted of treason charges March 1978; returned to public life Sept. 1978.

KOIRALA, Matrika Prasad (half-brother of B. P. Koirala, *q.v.*); Nepalese politician and diplomatist; b. 1 Jan. 1912; ed. Banares and Patna, India; fmr. Pres. Nepali Congress Party; Prime Minister and Minister of Gen. Admin. and Foreign Affairs 1951-52, 1953-55; nominated to Upper House of Parl.; Amb. to U.S. 1962-64; Perm. Rep. to UN 1962-64; now in exile in India.

KOITER, Warner Tjardus; Netherlands professor of engineering; b. 16 June 1914, Amsterdam; s. of Klaas Koiter and Jacoba U.M. Greidanus; m. Louise Clara Spits 1939; two s. two d.; ed. Univ. of Technology, Delft; with Nat. Aeronautical Research Inst., Amsterdam 1936-38; Govt. Patent office 1938-39; Dept. of Civil Aviation 1939-49; Prof. of Engineering Mechanics, Delft Univ. of Tech. 1949-; Pres. Int. Union of Theoretical and Applied Mechanics 1968-72; mem. Royal Netherlands Acad. of Sciences, Deutsche Akad. der Naturforscher Leopoldina 1976; Foreign hon. mem. American Acad. Arts and Sciences 1974; Foreign Assoc., Nat. Acad. of Engineering, Washington 1977; Hon. D.Sc. (Univ. of Leicester); Von Kármán Medal ASCE 1965; Timoshenko Medal ASME 1968; Modesto Panetti Prize 1971, Fairchild Distinguished Scholar, Calif. Inst. of Tech. 1973-74. *Publications:* On the Stability of Elastic Equilibrium 1945, many papers on elasticity, plasticity, elastic stability and theory of thin shells. *Leisure interests:* travel, hiking, reading. *Address:* Laboratory of Engineering Mechanics, Mekelweg 2, Delft (Office); Charlotte de Bourbon Straat 14, Delft, Netherlands. (Home). *Telephone:* 781523 (Office); 123169 (Home).

KOIVISTO, Mauno Henrik, PH.D.; Finnish banker and politician; b. 25 Nov. 1923, Turku; s. of Juho and Hymni Sofia Eskola Koivisto; m. Taimi Tellervo Kankaanranta 1952; one d.; ed. Turku University; Man. Dir. Helsinki Workers' Savings Bank 1959-67; Gov. Bank of Finland 1968-; Minister of Finance 1966-67; Prime Minister 1968-70, May 1979-; Minister of Finance and Deputy Prime Minister Feb.-Sept. 1972; Chair. Board of Postipankki 1970–, Mortgage Bank of Finland Oy 1968-, Board of Admin. of Co-operative Soc. ELANTO 1966-; mem.; Board of Admin. of Co-operative Union KK 1964-; Gov. for Finland in the Int. Bank for Reconstruction and Devt. 1966-69; Gov. for Finland IMF 1970-. *Address:* Office of the Prime Minister, Helsinki (Office); Pitkänsillanranta 11 B 40, 00530 Helsinki 53, Finland. (Home).

KOJIMA, Kiyoshi, PH.D.; Japanese economist; b. 22 May 1920, Nagoya; m. Keiko Kojima 1947; ed. Tokyo Univ. of Commerce and Economics, Leeds Univ. (U.K.) and Princeton Univ. (U.S.A.); Asst. Prof. of Int. Economics, Hitotsubashi Univ. 1945-60, Prof. 1960-; Secretariat (Dir.) for UN Conf. on Trade and Development 1963; British Council Scholarship 1952-53, Rockefeller Foundation Fellowship 1953-55. *Publications:* (in Japanese): Theory of Foreign Trade 1950, Japan's Economic Development and Trade 1958, Japan in Trade Expansion for Developing Countries 1964, Japan and a Pacific Free Trade Area 1971, World Trade and Multinational Corporations 1973, Japan and a New World Economic Order 1977; Editor Papers and Proceedings of a Conference on Pacific Trade and Development 1968, 1969, 1973; also articles in English on int. trade. *Leisure interests:* golf, Noh (Utai). *Address:* 3-24-10 Maehara-cho, Koganei-shi, Tokyo, Japan. *Telephone:* 0423-81-1041.

KOKOSCHKA, Oskar, C.B.E.; British artist and writer; b. 1 March 1886, Austria; ed. Vienna School of Industrial Art; worked in Vienna from 1906, where he taught at [redacted] Industrial school, then in various towns in Switzerland and in Berlin; joined the "Sturm" group in Berlin; cavalry officer on Russian and Italian fronts 1915-17; Prof. Dresden Art Acad. 1918-24; has travelled in Europe, Asia Minor and Northern Africa; émigré; paintings include landscapes, portraits and compositions; represented in principal European art galleries until 1939, when works, [redacted] "degenerate", were sold by Nazis; paintings in U.S.A.; Polperro, Cornwall, presented to Tate Gallery, London, by Pres. Beneš 1941, A Woman Bathing, presented to Nat. Gallery Edinburgh 1942; Founder Int. Summer Acad. of Fine Arts, Salzburg; Teacher 1953-; Retrospective Exhbn., Tate Gallery, London 1962, Marlborough Gallery, London 1976; rep. at Dunn Int. Exhbn., London 1963; Exhbn. of portraits, Badischer Kunstverein, Karlsruhe 66; Rome Prize 1960; Erasmus Prize 1960; Hon. D.Litt. (Oxford); Order of Merit (Fed. Rep. of Germany) 1956. *Publications:* Plays: Mörder, Hoffnung der Frauen 1907, Der brennende Dornbusch 1911, Hiob (music by Hindemith 1921) 1911, Orpheus und Eurydice (music by Křenek 1926) 1916; short stories: A Sea Ringed with Visions 1962; Mein Leben (autobiography) 1971, London Views, British Landscapes 1972, Saul and David 1973. *Address:* 1844 Villeneuve, Vaud, Switzerland.

KOL, Moshe; Israeli educator and politician; b. 1911, Pinsk, Poland; m.; ed. Hebrew Secondary School, Pinsk and Hebrew Univ. Jerusalem; Co-Founder Hanoar Hazioni (Zionist Youth) movement in Poland and its Rep. on Cen. Cttee. of Zionist Org. in Poland; came to Israel and joined Hamefas pioneer group in Kfar Saba 1932; Del. to all Zionist Congresses 1933-; [redacted] Histadrut Exec. 1941-46; mem. Jewish Agency Exec. and Head of its Youth Aliya Dept. 1946-66; [redacted] Provisional State Council 1948, and Chair. of its Foreign Affairs Cttee.; mem. Knesset (Parl.) 1949-66; Min. of Devt. and of Tourism 1966-74, of Tourism 1974-76; Co-Founder (in Israel), Oved Hazioni (Zionist Workers') Movement, World Confed. of Gen. Zionists; Vice-Pres. Int. Fed. of Children's Communities; many Jewish Agency missions abroad. *Publications:* Arichim (in Hebrew), Youth Aliya (in English and Hebrew), Paths in Education and Rehabilitation (in Hebrew), Teachers and Friends (in Hebrew), Directions in Zionism and Liberalism. *Address:* 10 Jabotinsky Street, Jerusalem, Israel.

KOLB, Hans Werner; German industrialist; b. 23 Aug. 1920, Mainz; ed. Univs. of Frankfurt and Giessen; Pres. Buderus Aktiengesellschaft, Wetzlar; Chair. of Board, Krauss-Maffei AG, München-Allach. *Address:* c/o Buderus Aktiengesellschaft, 6330 Wetzlar, Federal Republic of Germany. *Telephone:* 06441-4031.

KOLFF, Willem Johan, M.D., PH.D.; American professor of surgery; b. 14 Feb. 1911, Leiden, Netherlands; s. of Jacob and Adriana Pieternella Kolff; m. Janke Cornelia Huidekoper 1937; four s. one d.; ed. Univs. of Leiden and Groningen; Asst. Pathological Anatomy, Univ. of Leiden 1934-36; Asst. Medical Dept. Univ. of Groningen 1938-41; Head, Medical Dept., Municipal Hosp., Kampen 1941-50; Privaat Docent, Univ. of Leiden Medical School 1949-51; mem. of staff, Research Div., Cleveland Clinic Foundation 1950-63; Asst. Prof., later Prof. of Clinical Investigation, Educ. Foundation of Cleveland Clinic Foundation 1950-67; mem. staff, Surgical Div., Cleveland Clinic Foundation 1958-67, Head, Dept. of Artificial Organs 1958-67, Scientific Dir. Artificial Organs Program 1966-67; Prof. of Surgery, Head of Div. of Artificial Organs, Univ. of Utah Coll. of Medicine 1967-, also Research Prof. of Engineering and Dir. Inst. of Biomedical Engineering; Hon. mem. Peruvian Urological Soc., Greek Soc. of Cardiology, Sociedad Médica de Santiago, Austrian Soc. for Nephrology; Foreign mem. Hollandsch Maatschappij der Wetenschappen; Hon. D.Sc. (Tulane Univ.) 1975, Hon. M.D. (Rostock) 1975, Hon. M.D., 'Bologna' 1977; Commdr. Order of Orange-Nassau, Orden de Mayo al Mérito en el Grado de Gran Oficial (Argentina) 1974; numerous medals, awards and prizes from several countries including Francis Amorny Award (American Acad. of Arts and Sciences) 1948, Cameron Prize (Univ. Edinburgh) 1964, Gairdner Prize (Gairdner Foundation, Toronto) 1966, Gold Medal (Netherlands Surgical Soc.) 1970, Benjamin Franklin Fellow (Royal Soc. of Arts, London) 1972, Leo Harvey Prize (Technion Inst. of Israel) 1972, Ray C. Fish Award and Medal Tex. Heart Inst. 1975, Senior U.S. Scientist Award, Alexander von Humboldt Foundation 1978. *Publications:* De Kunstmatige Nier 1946, New Ways of Treating Uraemia 1947; over 450 articles in learned journals and chapters in books. *Leisure interests:* bird-watching, hiking, camping. *Address:* Division of Artificial Organs, Building 518, University of Utah, Salt Lake City, Utah 84112 (Office); 2894 Crestview Drive, Salt Lake City, Utah 84108, U.S.A. (Home). *Telephone:* (801) 581-6296 (Office); (801) 582-3056 (Home).

KOLFSCHOTEN, Henri Anthony Melchior Tieleman; Netherlands politician; b. 17 Aug. 1903, Arnheim; m. R. T. Ferwerda 1932; one s. five d.; ed. St. Willibrordus Coll. Katwijk, and Amsterdam Univ. (Law); Deputy Sec., Roman Catholic State Party 1927-38, Dir. 1938-41; Private Sec. to Jonkheer Ruys de Beerenbrouck 1928-33; representative of State Party in Politiek Convent and Vaderlandsche Comité; Min. of Justice in Schermerhorn-Drees Govt. 1945-46; [redacted] of Eerste Kamer (First Chamber) 1946-48, 1949-52; Burgomaster of Eindhoven 1946-57; Burgomaster of The Hague 1957-68 (retd.); Chamberlain Extraordinary to H.M. Queen Juliana; Knight Order of the Dutch Lion, Grand Officer Order of Orange-Nassau, Officier Légion d'honneur, Hon. K.C.V.O., Knight Commdr. Léopold II of Belgium and other foreign decorations. *Leisure interests:* music (violin), literature, mountaineering, sport. *Address:* 7 Nieuwe Duinweg, The Hague, Netherlands. *Telephone:* 55-06-06.

KOLIŠEVSKI, Lazar; Yugoslav politician; b. 12 Feb. 1914; fmr. metal worker; mem. Yugoslav Communist Party (now League of Communists) 1935-; partisan, Sec. Provincial Cttee. of CP of Macedonia, and leader of Provincial Mil. Staff 1941; imprisoned

1941-44; Pres. Govt. of Macedonia 1945; Sec. Cen. Cttee. of League of Communists of Macedonia until 1963; mem. Exec. Cttee. Cen. Cttee. of League of Communists of Yugoslavia 1952-; fmr. Pres. Macedonian Assembly and Chair. Socialist Alliance of Working People of Macedonia; Chair Cen. Board of Socialist Alliance of Working People of Yugoslavia 1963-67; mem. Council of Federation 1967-72; mem. Presidency of Yugoslavia 1972-. *Address:* Sobranie SRM 320 no. 1, Skopje, Yugoslavia.

KOLLEK, Theodore (Teddy); Israeli public administrator; b. 27 May 1911, Vienna; s. of S. Alfred and Margaret Fleischer Kollek; m. Tamar Schwartz 1937; s. one d.; ed. secondary school; founder mem. Kibbutz Ein Gev 1937; Political Dept. Jewish Agency for Palestine 1940; established Jewish Agency office, Istanbul, for contact with Jewish underground in Europe 1942; Mission to U.S.A. for Haganah 1947-48; Head of U.S. Div., Israel Foreign Ministry 1950; Minister, Washington 1951-52; Dir.-Gen. of Prime Minister's Office, Jerusalem 1952-65; Chair. Israel Govt. Tourist Corpn. 1955-65; Chair. Israel Govt. Water Desalination Joint Project with U.S. Govt. 1964-; Chair. of Board Israel Museum, Jerusalem 1964-, Africa-Israel Investment Co. Ltd. 1964-65; Mayor of Jerusalem 1965-; Hon. Doctorate (Hebrew Univ., Jerusalem) 1977; Rothschild Medal for Public Service 1975, Bublick Prize of the Hebrew Univ. 1975, Romano Guardini Prize 1976. *Publications:* Jerusalem; A History of Forty Centuries (Co-Author), Pilgrims to the Holy Land 1970 (Co-Author), For Jerusalem (autobiography) 1978. *Leisure interests:* archaeology, reading, collecting ancient maps and books on Holy Land. *Address:* 6 Rashba Street, Rechavia, Jerusalem, Israel (Home). *Telephone:* 232251 (Office); 33147 (Home).

KOLLER, Herbert Josef, IUR.D.; Austrian business executive; b. 1911, Wösendorf; m. Dr. Eva Koller 1940; ed. elementary and secondary schools, Melk, and Univ. of Vienna; law practice and business appointments 1935-44; Military Service and Prisoner-of-War 1944-47; Vereinigte Österreichische Eisen und Stahlwerke (Vöest) 1947-; Works Man., Hütte Krems 1955-61; Gen. Man. and Chair. of Board of Dirs., Vöest 1961-77; Chair. Wiener Brückenbau- und Eisen-Konstruktions A.G., Vienna, Hütte Krems G.m.b.H., Binder and Co., Aktiengesellschaft Gleisdorf; Pres. of Board of Management, Vöest Italiana, Milan, Vöest Zürich, BOT Zürich; Chair. Board of Management, Importkohle Vienna, Ister Reederei, Bremen, Vöest Frankfurt, Ferrum Montage Oslo; Chair. Board of Dirs. Ferrum Copenhagen, Ferrum London; mem. Board of Dirs. Int. Iron & Steel Inst.; Austrian and foreign decorations. *Address:* Muldenstr. 5, 4010 Linz/Donau, Austria. *Telephone:* (07222) 5850.

KOLLIAS, Konstantinos V.; Greek politician; b. 1901; ed. Athens Univ.; Prosecutor, Court of Appeal 1945-46; Vice-Prosecutor, Supreme Court 1946-62; Prosecutor, Supreme Court, Athens 1962-68; Prime Minister April-Dec. 1967. *Address:* 124 Vassil. Sophias Street, Ampelokipi, Athens, Greece.

KOLMOGOROV, Andrey Nikolayevich; Soviet mathematician; b. 25 April 1903, Tambov; ed. Moscow Univ.; Instructor, Moscow Univ. 1925-31, Prof. 1931-, Head, Chair of Theory of Probability 1937-, Dean of Faculty of Mechanics and Mathematics, Moscow Univ. 1954-57; mem. U.S.S.R. Acad. of Sciences 1939-, Head of Dept. of Theory of Probability and Mathematical Statistics, Inst. of Mathematics of U.S.S.R. Acad. of Sciences 1939-59; Editor-in-Chief Theory of Probability and its Application; Chair. U.S.S.R. Acad. of Sciences Comm. on Mathematical Educ.; Hon. mem. Polish Acad. of Sciences; Foreign mem. Romanian Acad. of Sciences, German Leopoldina Acad., American Acad. of Arts and Sciences, Nat. Acad. of Sciences (U.S.A.), Royal Statistical Soc. (U.K.); mem. Presidential Board, U.S.S.R.-France Friendship Soc.; Hero of Socialist Labour, State Prize 1941, Lenin Prize, 1965, Order of Lenin (six times), Order of the Red Banner and other decorations. *Publications:* include Basic Concepts of the Theory of Probability 1936; co-author Algebra 1939; Elements of the theory of functions and functional analysis 1972. *Address:* Institute of Mathematics, U.S.S.R. Academy of Sciences, 19 Leninsky Prospekt, Moscow, U.S.S.R.

KOLO, Şule Dede, B.SC.(ECON.); Nigerian diplomatist; b. 6 Aug. 1926, Nigeria; s. of Mohamed and Meimuna Kolo; m. Mrs. H. P. Kolo 1956; one s. three d.; fmr. Counsellor, Nigerian High Comm., London; Perm. Sec. Ministry of Defence 1963, Ministry of Trade 1966; Perm. Rep. to European Office of UN, Geneva; Nigerian Rep. to Disarmament Cttee. of UN; Amb. to Switzerland 1966-70, also accred. to Austria and Turkey; Chair. GATT 1969; Gov. IAEA 1969; Vice-Chair. First Cttee. of UN; High Commr. to U.K. 1970-75; Franklin Peace Medal 1969. *Leisure interests:* tennis, swimming. *Address:* c/o Ministry of Foreign Affairs, Lagos, Nigeria.

KOŁODZIEJ, Emil, LL.M.; Polish politician; b. 2 Jan. 1917, Futoma, Rzeszów Voivodship; s. of Józef and Zofia Kołodziej; m. Lidia Prokopiak 1948; two d.; ed. Univs. of Lwów and Warsaw; activist of the United Peasant Party 1936; soldier in the Peasant Battalions during the occupation; held exec. positions, Cen. Board of Agricultural Co-operatives, Warsaw 1945-57; mem. Cen. Cttee. United Peasant Party (ZSL) 1959, mem. Presidium 1969-, Sec. 1969-71; Deputy to Seym 1969-; Deputy Minister of Home Trade 1957-69; Minister of Food Industry and Purchases 1971-; Order of Banner of Labour (1st and 2nd Class), Commdr. and Knight's Cross, Order of Polonia Restituta, Gold Cross of Merit. *Leisure interests:* tourism and hunting. *Address:* Ministry of Food Industry and Purchases, 20 Świętokrzyska, 00-002 Warsaw, Poland. *Telephone:* 26-61-17.

KOLOSOV, Mikhail Nikolayevich; Soviet chemist; b. 11 May 1927, Kursk; ed. Lomonosov Inst. of Fine Chemical Technology; Postgraduate Lomonosov Inst. of Fine Chemical Technology 1948-51; Research Assoc. Inst. of Biological and Medical Chemistry, U.S.S.R. Acad. of Medical Sciences 1951-59; Inst. of Chemistry of Natural Compounds, U.S.S.R. Acad. of Sciences 1959-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-; mem. CPSU 1963-. *Publications:* Works on chemistry of biopolymers and other natural compounds. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

KOLOTYRKIN, Yakov Mikhailovich; Soviet physical chemist; b. 14 Nov. 1910, Zanino Yartsevsky district, Smolensk region; ed. Moscow Univ.; Research Assoc., Karpov Physico-Chemical Inst. 1938-, Dir. 1957-; mem. CPSU 1940-; Dr. Sc. (Chem.) Prof. 1954; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-70, Academician 1970-; hon. mem., Saxony Acad. of Sciences; Corresp. mem., Yugoslav Acad. of Sciences; Badge of Honour 1953, Order of Lenin 1963, 1975, Order of the Red Banner of Labour 1970 and numerous medals. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, 117901, Moscow, U.S.S.R.

KOLOZSVÁRI-GRANDPIERRE, Emil, D.PHIL.; Hungarian novelist; b. 15 Jan. 1907, Kolozsvár; s. of the late Emil Grandpierre and Janka Krassowsky; m. Magda Szegö 1946; one d.; ed. secondary school in Transylvania, Pécs Univ.; Publisher's reader 1941-44; Dir. of literature dept. of Hungarian Radio 1946-49; József Attila Literary Prize 1964, 1975, Labour Order of Merit (gold) 1976. *Publications:* A Rosta, Dr. Csibráky szerelmei, A Nagy Ember, Alvajárók, A sárgavirágos leány, Tegnap, Szabadság, Lófö és kora, Az értelem dicsérete, Lelkifinomságok, Mérlegen, A Csodafurulya, A Csillagszemü, A Törökfejes kopja, Elmés mulatságok, A büvös kaptafa, A tisztesség keresztje, Foltonfolt Királyfi, A boldogtalanság müvészete, Legendák nyomában, Csinnadári, Gyalogtündér, Egy szereplö visszatér, Párbeszéd Sorssal, A lóvátett sárkány, Csendes rév háztetön, A Burok, Aquincumi Vénusz, Változatok hegedüre, Arcok napfényben, Utazás valóság körül, Dráma félvállról, Nök- apróban, Szellemi Galeri, Keresztben uton, Az utolsó hullám, Harmatcseppek, Táguló mult, A szerencse mostohafia, Hullámtörök. *Leisure interests:* women, jokes, walking, swimming. *Address:* Berkenye-u 19, 1025 Budapest, Hungary. *Telephone:* 363-935.

KOLPAKOVA, Irina Aleksandrovna; Soviet ballerina; b. 22 May 1933; ed. Leningrad Choreographic School. Prima Ballerina, Kirov Theatre of Opera and Ballet, Leningrad; People's Artist of the R.S.F.S.R. and the U.S.S.R., Grand Prix de Ballet, Paris 1966; Principal Roles; Aurora (Sleeping Beauty), Juliet (Romeo and Juliet), Desdemona (Othello), Tao Khao (The Red Poppy), Maria (Fountain of Bakhchisarai), Giselle, Zolushka, Raymonda; first performer of part of Katerina (The Stone Flower) and Shirin (Legends of Love); Order of the Red Banner and other decorations. *Address:* c/o Kirov Theatre of Opera and Ballet, 1 ploshchad Iskusstv, Leningrad, U.S.S.R.

KOLSTAD, Eva; Norwegian chartered accountant and politician; b. 6 May 1918, Halden; d. of Chr. Hartvig and Otlu Lundegaard; m. Ragnar Kolstad 1942; Teacher of book-keeping and other commercial subjects 1938-40; Asst. Accountant 1940-44; independent chartered accountant 1944-; mem. Board, Int. Alliance of Women 1949-58, 1961-68, 1973; Pres. Norwegian Assen. for Rights of Women 1956-68; mem. Oslo City Council 1960-75; mem. UN Comm. on Status of Women 1969-75; deputy mem. Parl. 1958-61, 1966-69; Minister of Consumer Affairs 1972-73; Pres. Liberal Party 1974-76; Co-ordinator Int. Women's Year 1975; Leader, Govt. Council, Equal Status of Men and Women 1977. *Publications:* numerous articles in newspapers, periodicals and encyclopedias. *Address:* Schivesgt. 6 III, Oslo 2, Norway. *Telephone:* 44-87-94.

KOLTHOFF, Izaak Maurits, PH.D.; American analytical chemist; b. 11 Feb. 1894, Almelo, Netherlands; s. of Moses and Rosetta Wijsenbeek Kolthoff; ed. Univ. of Utrecht; Lecturer, Univ. of Utrecht 1918-27; Prof. and Chief, Div. of Analytical Chem. Univ. of Minn. 1927-62, Prof. Emer. 1962-; mem. Nat. Acad. of Sciences,

American Acad. Arts and Sciences and many foreign acads. and socs.; Dr. h.c. (Chicago and Groningen), Dr. h.c. (Brandeis and Hebrew Univ. of Jerusalem) 1974; Charles Medal, Nichols Medal, Fisher Award in Analytical Chem., Anachem Award, Willard Gibbs Award Medal, Polarographic Medal, Kolthoff Gold Medal in Analytical Chem., Gold Medal Award for Scientific Achievement. *Publications:* Acid-Base Indicators (with C. Rosenblum), Konduktometrische Titrationen, Potentiometric Titrations (with H. N. Furman), Die Massanalyse (2 vols.), pH and Electrotitrations (with H. A. Laitinen), Volumetric Analysis (Vols. I and II with V. Stenger, Vol. III with R. Belcher), Textbook of Quantitative Inorganic Analysis (1st edn. with E. B. Sandell, 4th edn. with B. Sandell and others.), Polarography (with J. J. E. Lingane), Emulsion Polymerization (with F. Bovey and others), Treatise on Analytical Chemistry (Co-Editor with P. J. Elving) Vols. 1-30. *Leisure interests:* riding, swimming. *Address:* School of Chemistry, University of Minnesota, Minneapolis, Minn. 55455, U.S.A.

KOMAI, Kenichiro; Japanese business executive; b. 17 Dec. 1900, Tokyo; ed. Coll. of Technology, Tokyo Imperial Univ.; Hitachi Ltd. 1925-, Man. of Hitachi Works 1946-50, Dir. 1946-55, Man. Dir. 1955-57, Senior Man. Dir. 1957-61, Pres. 1961-71, Chair. of Board 1971-77; fmr. Chair. Tokyo Atomic Industrial Consortium; fmr. Exec. Dir. Japan Fed. of Econ. Organizations 1962; fmr. Gov. Dir. Japan Fed. of Employers' Asscns. *Leisure interests:* golf, gardening. *Address:* Hitachi Ltd., Marunouchi, Chiyoda-ku, Tokyo; and 2-3-2 Taiheidai, Tsujido, Fujisawa, Kanagawa-Ken, Japan. *Telephone:* 0466-36-3956.

KOMÁREK, Karel, LL.D.; Czechoslovak diplomatist; b. 3 Nov. 1921, Hodonín; ed. Charles Univ., Prague; various posts in political and State offices; mem. Scientific Council, Faculty of Law, Charles Univ., Prague 1960-64; Ministry of Foreign Affairs 1964; Counsellor, Czechoslovak Embassy, Bucharest 1964-69; Minister to Austria 1969-74, Amb. Jan. 1975-77; orders for Outstanding Work and Service to the Country. *Address:* c/o Ministry of Foreign Affairs, Prague 1, Černínský palác, Czechoslovakia.

KOMER, Robert William, S.B., M.B.A.; American diplomatist and social scientist; b. 23 Feb. 1922, Chicago, Ill.; s. of Nathan A. Komer and Stella D. Komer; m. Geraldine M. Peplin 1961; two s. one d.; ed. Harvard Coll., Harvard Graduate School of Business Admin. and Nat. War Coll.; U.S. Army 1943-46; Foreign Affairs Analyst, Central Intelligence Agency 1948-60; Senior Staff Asst., White House 1961-65; Dep. Special Asst. to Pres. for Nat. Security Affairs 1965-66; Special Asst. to Pres. 1966-67; Deputy to COMUSMACV for Civil Operations and Revolutionary Devt. with rank of Amb. (pacification in Viet-Nam) 1967-68; Amb. to Turkey 1968-69; Senior Social Science Researcher, Rand Corpn. 1970-76; Adviser to Sec. of Defense for NATO Affairs 1977-; Presidential Medal of Freedom, Sec. of State's Distinguished Honor Award, Dept. of Defense Medal for Distinguished Public Service, U.S. Bronze Star, Vietnamese Orders. *Publications:* Civil Affairs and Military Government in the Mediterranean Theater (2 vols.) 1949, Establishment of ACC in Italy 1950, The Other War in Vietnam 1967, Bureaucracy Does Its Thing 1972, Treating NATO's Self-Inflicted Wound 1973, Origins of NATO Long Term Defense Program 1978, and other articles. *Leisure interests:* tennis, swimming, military history. *Address:* Department of Defense, Washington, D.C. 20301 (Office); 214 Franklin Street, Alexandria, Va. 22314, U.S.A. (Home).

KOMIYAMA, Jushiro; Japanese politician; b. 1928; ed. Waseda Univ.; Reporter, Yomiuri Shimbun; Private Sec. to the late Eisaku Sato; elected five times to House of Reps. from constituency in Saitama Prefecture; fmr. Parl. Vice-Minister of Int. Trade and Industry; fmr. Deputy Dir.-Gen. of Admin. Affairs in Office of P.M.; fmr. Chair. Judicial Affairs Cttee. House of Reps.; fmr. Deputy Sec.-Gen. of Liberal Democratic Party (LDP); Minister of Posts and Telecommunications, 1976-77. *Address:* c/o Ministry of Telecommunications, Tokyo, Japan.

KOMLÓS, Péter; Hungarian violinist; b. 25 Oct. 1935, Budapest; s. of László Komlós and Franciska Graf; m. Edit Fehér 1960; two s.; ed. Budapest Music Acad.; Founded Komlós String Quartet 1957; First Violinist, Budapest Opera Orchestra 1960; Leader Bartók String Quartet 1963; extensive concert tours to U.S.S.R., Scandinavia, Italy, Austria, German Democratic Repub. Czechoslovakia 1958-64, U.S.A., Canada, New Zealand and Australia 1970, including Day of Human Rights concert, UN H.Q. New York, Japan, Spain and Portugal 1971, Far East, U.S.A. and Europe 1973; performed at music festivals of Ascona, Edinburgh, Adelaide, Spoleto, Menton, Schwetzingen, Lucerne, Aix-en-Provence; recordings of Beethoven's string quartets for Hungaroton, Budapest and of Bartók's string quartets for Erato, Paris; First Prize, Int. String Quartet Competition, Liège 1964, Liszt Prize 1965, Gramophone Record Prize of Germany 1969, Kossuth Prize 1970. *Leisure interests:* ship model building, watching sports. *Address:* 1025 Budapest, Törökvész ut 94, Hungary. *Telephone:* 365-082.

KOMOTO, Toshio; Japanese politician; b. 1911, Aioi City, Hyogo Prefecture; ed. Nihon Univ.; fmr. Parl. Vice-Minister for Econ. Planning Agency; fmr. Chair. of Justice Cttee., House of Reps.; fmr. Chair. Cabinet Cttee., House of Reps.; Minister of Posts and Telecommunications 1968-70, of Int. Trade and Industry 1974-76, 1977-79; Chair. Policy Research Council, Liberal Democratic Party 1976-; fmr. Pres. Sanko Steamship Co.; Liberal Democrat. *Address:* c/o Liberal Democratic Party, 7, 2-chome, Hirakawacho, Chiyoda-ku, Tokyo, Japan.

KONDRASHIN, Kiril Petrovich; Soviet musician; b. 21 Feb. 1914, Moscow; s. of Pyotr and Anna Kondrashin; m. 1st Yelizaveta Kondrashin 1944, 2nd Nina Kondrashin 1954; three s.; ed. Moscow Conservatoire; Asst. Conductor, Nemirovich-Danchenko Musical Theatre, Moscow 1934-37; Conductor, Maly Opera Theatre, Leningrad 1938-42; Bolshoi Theatre, Moscow 1943-56; Conductor, All-Russia Symphony Orchestra Touring Concert Company 1956-60; Chief Conductor, Moscow Philharmonic Orchestra 1960-76; Prof. of Moscow Conservatoire 1977-78; Prin. Guest Conductor, Concertgebou Orchestra (Amsterdam) 1975-; State Prize 1948, 1949, Honoured Artist of R.S.F.S.R. and the U.S.S.R., Glinka State Prize 1969; in exile in Netherlands Dec. 1978-. *Publications:* The Art of Conducting 1970, The Conductor's World 1976, A Conducting Approach to Tchaikovsky's Symphonies 1977.

KONDRATIYEV, Viktor Nikolayevich; Soviet physical chemist; b. 1 Feb. 1902, Rybinsk, Yaroslavl Region; s. of Nikolay A. and Olga D. Kondratiyev; m. Yelena Sokolova 1925; one s. one d.; ed. Polytechnic Inst., Leningrad; Chief, Laboratory of Elementary Processes, Inst. of Chemical Physics, Moscow 1931-, Vice-Dir., Inst. of Chemical Physics 1948-, Chief, Dept. of Kinetics and Combustion 1956-; Prof. Polytechnic Inst. Leningrad 1934-41, Moscow State Univ. 1949-51, Moscow Engineering Physical Inst. 1951-57; mem. CPSU 1948-; Corresp. mem. U.S.S.R. Acad. of Sciences 1943-53, mem. 1953-, mem. Chemical Dept. Bureau, U.S.S.R. Acad. of Sciences 1957-63; mem. IUPAC Bureau and Exec. Cttee. 1961-71, Vice-Pres. 1965-67, Pres. 1967-69; State Prize 1946, Order of Lenin (twice) and other decorations. *Publications:* Spectroscopic Studies of Chemical Gas Reactions 1944, Structure of Atoms and Molecules (3rd edn.) 1960, Kinetics of Chemical Gas Reactions 1958, Rate Constants of Phase Reactions 1972, Kinetics and Mechanisms of Gas-Phase Reactions (with E. E. Nikitin) 1974. *Leisure interests:* hunting and fishing. *Address:* Leninskii prospekt 30, fl. 105, 117334 Moscow, U.S.S.R. *Telephone:* 232-21-14.

KONDRATIYEVA, Maria Viktorovna; Soviet ballet dancer; b. 1934; ed. Bolshoi Theatre Ballet School; joined Bolshoi Ballet Co. 1953; People's Artist of R.S.F.S.R.; Main roles include: Cinderella (Cinderella), Maria (Fountain of Bakchisarai), Aurora (Sleeping Beauty), Juliet (Romeo and Juliet), Katerina (Stone Flower), Giselle (Giselle), Gayane (Gayane), Odette-Odile (Swan Lake), Shirin (Legend of Love). *Address:* c/o State Academic Bolshoi Theatre of U.S.S.R., 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

KONIE, Gwendoline C.; Zambian diplomatist; b. 9 Oct. 1938, Lusaka; d. of William Bernard Chinyimba and Hilda Kalulu Konie; ed. Swansea Univ. Coll., U.K., and American Univ., Washington, D.C., U.S.A.; Asst. Social Welfare Officer, Ministry of Local Govt. and Social Welfare 1961, Social Welfare Officer 1962; mem. Legislative Council 1963, Asst. Sec. Ministry of Foreign Affairs 1964; Deputy Commr.-Gen. Zambian Pavilion at Expo 70, Japan 1970; Under-Sec. Personnel Div., Office of the Pres. 1972; Amb. to Sweden, Denmark, Norway and Finland 1974-77, to UN 1977-79; Perm. Sec. in Civil Service 1979-; fmr. Pres. UN Council for Namibia; twice Pres. Lusaka Branch of YWCA, twice Pres. of nat. YWCA; mem. or fmr. mem. Board of Govs. Northern Rhodesia Broadcasting Corpn., Interim Cttee. on Establishment of Univ. of Zambia, Hotels Board of Zambia, YWCA Exec. Board, Adult Educ. Assn. of Zambia, Family Planning Assn. of Zambia. *Leisure interests:* music, reading, drama. *Address:* c/o Ministry of Internal Affairs, Lusaka, Zambia.

KÖNIG, H.E. Cardinal Franz; Austrian ecclesiastic; b. 3 Aug. 1905, Rabenstein, Pielach; ed. Univs. of Rome, Vienna and Lille; ordained 1933; Dozent, Vienna Univ. 1946; Prof., Faculty of Theology, Salzburg 1948; Titular Bishop of Livias 1952; Archbishop of Vienna 1956-; created Cardinal by Pope John XXIII 1958; mem. Roman Congregation for Bishops; Pres. Secretariat for Non-Believers, Rome. *Publications:* include Christus und die Religionen der Erde, Religionswissenschaftliches Wörterbuch, Zarathustras Jenseitsvorstellungen und das Alte Testament 1964, Die Stunde der

Welt 1971, Aufbruch [illegible] Geist 1972, Das Zeichen Gottes 1973, Der Mensch ist für die Zukunft angelegt 1975, Kirche und Welt 1978. *Address:* Erzbischöfliches Sekretariat, Rotenturmstrasse 2, 1010 Vienna, Austria. *Telephone:* 529511.

KÖNIG, Gerd; German diplomatist; b. 24 June 1930, Klettwitz; ed. Akademie für Staats- und Rechtswissenschaften 1952-53, and at Inst. for Int. Relations, Moscow, U.S.S.R.; on staff of, G.D.R. Ministry of Foreign Affairs, Cultural Attaché at Belgrade Embassy 1959-62; leading functionary in Int. Relations Section of Cen. Cttee., Sozialistische Einheitspartei Deutschlands (SED) 1962-73; Cand. mem. SED Cen. Cttee. 1976-; Amb. to Czechoslovakia 1973-; Vaterländischer Verdienstorden in Bronze and other decorations. *Address:* Embassy of the German Democratic Republic, Gottwaldovo nábreží 32, 125 39 Prague, Czechoslovakia.

KÖNIG, Herbert, DR.RER.POL.; German lawyer, political and financial scientist and international consultant; b. 25 July 1925, Frankfurt; m.; ed. Univs. of Frankfurt and Graz.; entered local govt. service, Frankfurt 1945, Fed. Govt. Service 1956; Fed. Acad. of Finance 1957; Asst. to Pres. Fed. Audit Board 1958; Budget Officer, Fed. Ministry for Econ. Affairs 1962, Counsellor for Mining Affairs 1966, Deputy Dir.-Gen. Cen. Dept. 1968; Deputy mem. Comm. for Reform of Foreign Service 1969; Asst. Sec.-Gen. OECD 1970-72; Consultant to Council of Europe and other orgs.; mem. Fed. Govt.'s Project Group on the Reform of Govt. and Admin. 1973-75; Fed. States and Local Govt. Adviser 1976-; part-time Prof. Univ. of Bielefeld and Cologne; Chairholder for Admin. Sciences, High School of the Bunderswehr, Hamburg 1978-. *Publications:* books and studies on organization, budget and personnel, mining and financial control. *Address:* Bundesministerium für Wirtschaft, Bonn (Office); D 5309 Meckenheim-Merl, Auf der Lehmwiese 11, Federal Republic of Germany (Home). *Telephone:* (02221) 761 (Office); (02225) 6847 (Home).

KÖNIG, René, PH.D.; German sociologist; b. 5 July 1906, Magdeburg; s. of Gustav König and Marguerite Godefroy-Leboeuf; m. Irmgard Tillmanns 1947; two s.; ed. Univs. of Vienna, Berlin and Paris; Mem., Faculty Zurich Univ. 1938; apptd. to Chair of Sociology, Cologne Univ. 1949-74; Sec. First World Congress of Sociology, Zurich 1950; Editor Kölner Zeitschrift für Soziologie and Sozialpsychologie 1955; Pres. Int. Sociological Asscn. 1962-66; Guest Prof. Univs. of Mich. 1957, 1974, Calif. 1957, 1959-60, 1964-65, Columbia Univ. 1959, Colo. 1962, Arizona 1968-69, 1975; Rockefeller Fellow 1952; mem. Royal Netherlands Acad. of Sciences 1970; Hon. mem. German Sociological Asscn. 1975; Commendatore del Ordine al Merito della Repubblica Italiana; Gold Medal, German Criminological Asscn., Gold Medal German Asscn. of Engineers, Premio Verga 1967, Medal for Education (Afghanistan) 1975. *Publications:* Naturalistische Ästhetik in Frankreich 1931, Niccolo Macchiavelli 1941, Materialien zur Soziologie der Familie 1946 (2nd ed. 1974), Soziologie heute 1949, Soziologie 1957, 1967, Grundformen der Gesellschaft: Soziologie der Gemeinde 1958 (English trans. The Community 1967), Das Buch der Mode 1958, 1967, Handbuch der empirischen Sozialforschung 1962, 1968, 1973, Soziologische Orientierungen 1972, Macht und Reiz der Mode (English trans. The Restless Image) 1971, Soziologische Studien 1971, Indianer Wohin? Alternativen in Arizona 1973, Kritik der historischexistenzialistischen Soziologie 1975, Durkheim zur Diskussion 1978. *Address:* Marienstrasse 9, 5 Cologne 40, Federal Republic of Germany. *Telephone:* Cologne 50-86-13 (Home).

KONJOVIC, Petar; Yugoslav composer and conductor; b. 5 May 1883; ed. Prague Conservatoire; fmr. Dir. Nat. Theatre, Novi Sad and Osijek; fmr. Dir. Ministry of Public Instruction and Zagreb Opera; fmr. Pres. Yugoslav Section Int. Society for Contemporary Music, Zagreb, and Society of Friends of Slavic Music, Belgrade; fmr. Dir. Inst. of Musicology and Sec. to Dept. for Arts and Music in Serbian Acad. of Sciences; fmr. Rector [illegible]d Prof. Acad. of Music, Belgrade; Fellow of Serbian Acad. of Sciences and Arts. *Works include:* Vilin Veo-Ženidba Miloševa, Knezod Zete, Koštana, Majka Jugovića—La Patrie (operas), Seljaci (folk opera), Moja Zemlja, 100 Yugoslav folk songs arranged for voice and piano; Lyric, 24 songs, Makar Chudra, symphonic poem for complete orchestra; Koštana, symphonic tryptichon, Sonata for violin and piano; Na Selu (In the Country) symphonic variations; Capriccio adriatico concerto for violin and orchestra; songs and folk songs; symphony orchestra and chamber music works (two string quartets); Musica Divina, Liturgies, Psalms, Hymns and 20 other works for choirs. *Publications:* Personalities in Theatre and Music, Serbian and Slav Music, Miloje Milojević, Stevan Mokranjac—a musical portrait 1956. *Address:* Prvog maja 32/III, Belgrade, Yugoslavia.

KONO, Fumihiko, B.ENG.; Japanese business executive; b. 22 Nov. 1896, Otawara City; m. 1929; [illegible] s. two d.; ed. Tokyo Univ.; Aircraft Designer, Mitsubishi Internal Combustion Engine Mfg. Co. Ltd. 1921-45; Gen. Man. First Engineering Works, Mitsubishi Heavy Industries Ltd. 1945, Kawasaki Engineering Works 1945-50; Dir. and Gen. Man. Kawasaki Engineering Works, Mitsubishi Nippon Heavy Industries Ltd. 1950-52, Man. Dir. 1952-56, Vice-Pres. 1956-61, Pres. 1961-64; Exec. Vice-Pres. Mitsubishi Heavy Industries Ltd. 1964-65, Pres. 1965-70, 1970-73; Dir. Mitsubishi Shoji Kaisha Ltd., Mitsubishi Steel Co. Ltd., Mitsubishi Atomic Power Industries Inc.; Vice-Pres. Fed. of Econ. Orgs. (Keidannen); Governing Dir. Japan Fed. of Employers' Asscns., The Shipbuilders' Assn. of Japan; Vice-Pres. The Machinery Fed.; Blue Ribbon Medal. *Leisure interests:* baseball, golf. *Address:* 33-9, 6-chome, Denenchofu, Ota-ku, Tokyo, Japan (Home). *Telephone:* 03-721-4481.

KONOPACKI, Henryk, M.A.; Polish chemist and government official; b. 25 Jan. 1925, Wronki; ed. Univ. of Poznań; various management posts in Pionki Chemicals Enterprise; Chief Eng. Organic and Artificial Materials Enterprise 1958-60, Dir. 1960-66; Deputy Minister of Chem. Industry 1966-76, Minister Dec. 1976-; mem. Polish United Workers' Party (PZPR); Order of Banner of Labour (Second Class). *Address:* Ministerstwo Przemysłu Chemicznego, ul. Wspólna 4, 00-926 Warsaw, Poland.

KONOPHAGHOS, Constantine; Greek professor and politician; b. 1912; m.; one s. one d.; ed. Ecole Centrale, Paris; with Soc. Française du Laurion; with Soc. Anonyme de Produits Chimiques et d'Engrais; Prof. at Polytechnic 1963, Rector 1973; mem. Parl. for Preveza 1974-77; Minister of Industry 1974-77; Gold Cross of George I, Commdr. Order of the Phoenix, Légion d'honneur, Médaille de la Ville de Gand (Belgium). *Publications:* many scientific and literary works. *Address:* c/o Ministry of Industry, Athens, Greece.

KONOTOP, Vasiliy Ivanovich; Soviet politician; b. 1910; ed. Kharkov Machine-Building Inst.; Mem. Communist Party of Soviet Union 1944-; worked Kolomna Engineering Works 1942-52; party work, Moscow District 1952-59; Chair. Exec. Cttee. Moscow District Council for Deputies of Labour 1959-63; First Sec. Moscow District Cttee. CPSU 1963-; Cand. mem. Cen. Cttee. of CPSU 1961-64, mem. 1964-; mem. Presidium of Supreme Soviet 1966-; Deputy to U.S.S.R. Supreme Soviet 1954; mem. Cttee. U.S.S.R. Parl. Group. *Address:* Moscow Regional Committee of CPSU, 6 Staraya ploshchad, Moscow, U.S.S.R.

KONOVALOV, Sergey, M.A., B.LITT.; British Slavonic scholar; b. 31 Oct. 1899, Moscow, U.S.S.R.; s. of Aleksandr Konovalov and Nadyezhda Vtorov; m. Janina Ryzowa 1949; ed. Classical Lycée in Moscow and Exeter Coll., Oxford; Prof. Russian Language and Literature, Birmingham Univ. 1929-45; Lecturer Slavonic Studies, Oxford Univ. 1930-45; Hon. Lecturer, London Univ. (School of Slavonic Studies) 1931-32, 1940-41; Prof. Russian, Oxford Univ. 1945-67, Prof. Emer. 1967-; Emer. Fellow New Coll., Oxford 1967-; mem. Int. Cttee. of Slavists 1958-68. *Publications:* Anthology of Contemporary Russian Literature 1932; Editor and contrib. Birmingham Russian Memoranda 1931-40, Co-editor Birmingham Polish Monographs 1936-39; article on Soviet Union, Encyclopaedia Britannica Year Book 1941; Russo-Polish Relations—an Historical Survey (in collaboration) 1945; Oxford and Russia (Inaugural Lecture) 1947; Editor and contributor Blackwell's Russian Texts 1945–, Oxford Slavonic Papers Vols. I-XIII 1950-67, and Oxford Russian Readers 1951-; Editor (with D. J. Richards) Russian Critical Essays 1971-72. *Address:* 175 Divinity Road, Oxford, England.

KONSTANTINOV, Fyodor Vasiliyevich; Soviet philosopher; b. 21 Feb. 1901, Novoselki, Gorky region; ed. Inst. of Red Professors; teacher and party worker 1932-41; Soviet Army 1942-45; Assoc. Inst. of Philosophy, U.S.S.R. Acad. of Sciences 1945-62, Dir. 1962-; Rector, Acad. of Social Sciences of Cen. Cttee. of CPSU 1954-55; Head, Dept. of Propaganda and Agitation, Cen. Cttee. of CPSU 1955-58; Cand. mem. Cen. Cttee. of CPSU 1956-61; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-66, mem. 1966-; Academic Sec. Philosophy and Law Branch, U.S.S.R. Acad. of Sciences; Chief Editor Encylopaedia of Philosophy; Pres. Philosophy Soc. of U.S.S.R. 1971-; Order of Lenin, Order of October Revolution and other decorations. *Publications:* For [illegible] Revolution on the Philosophy Front 1931, What is Marxist-Leninist Philosophy? 1941, Historical Materialism [illegible] a Science 1949, V. I. Lenin—a Biography 1972. *Address:* c/o Institute of Philosophy of U.S.S.R. Academy of Sciences, 14 Ulitsa Volkhonka, Moscow, U.S.S.R.

KONTOS, Constantine William; American government official; b. 10 Aug. 1922, Chicago, Ill.; s. of William C. and Irene Thomas Kontos; m. Joan Fultz 1948; two s.; ed. Univ. of Chicago and London School of Economics; Special Asst. to Dir. of Econ. Co-operation Admin., Mission to Greece 1949-53; Programme Budget Officer, Foreign Operations Admin., Washington, D.C. 1953-55; Senior

Management Officer Int. Co-operation Admin., Washington, D.C. 1955-57; Exec. Officer, Bureau of Africa and Europe 1957-59; Deputy Dir. U.S. AID Mission, Ceylon 1959-61; Deputy Dir. U.S. AID Mission, Nigeria 1961-64; attended Nat. War Coll. 1964-65; Dir. Personnel Agency for Int. Devt. 1965-67; Dir. U.S. AID Mission, Pakistan 1967-69; Dir. Office of Programme Educ., AID 1969-72; Deputy Commr.-Gen. UN Relief and Works Agency (UNRWA) 1972-74; mem. policy planning staff, State Dept., Washington 1974-76; special rep. of Pres., Dir. Sinai support mission, Washington 1976-; Dept. of State Meritorious Honour Award 1971. *Address:* Sinai Support Mission, State Department, Washington, D.C. 20520, U.S.A.

KONUK, Nejat; Turkish Cypriot lawyer, politician and writer; b. 1928, Nicosia; ed. Turkish Lycée, Cyprus, and Law Faculty of Ankara Univ., Turkey; Legal Adviser in Turkish Civil Service, Turkey; Sec.-Gen. and Acting Dir.-Gen. of Turkish Communal Chamber, Cyprus; Under-Sec. to Rauf Denktaş (*q.v.*) 1968-69; Minister of Justice and Internal Affairs, Turkish Cypriot Admin. 1969-75; mem. for Nicosia, Turkish Communal Chamber, Constituent Assembly, Turkish Cypriot Legislative Assembly 1970-; founder mem. Nat. Unity Party 1975, Leader 1976-78; Prime Minister "Turkish Federated State of Cyprus" 1976-78. *Publications:* essays on literature, various papers on Cyprus, political articles 1953-77. *Leisure interests:* reading, swimming. *Address:* Kumsal, Lefkoşa, Mersin 10, Turkey.

KONWICKI, Tadeusz; Polish writer; b. 22 June 1926, Nowa Wilejka, U.S.S.R.; m. Danuta Lenica; ed. Warsaw Univ.; Partisan, Home Army detachment 1944-45; mem. Polish Writers' Assen. 1949-, Editorial Staff of Nowa Kultura (weekly) 1950-57; State Prize, 3rd Class 1950, 1954, 1st Class 1966, Knight's Cross, Order of Polonia Restituta 1954, Officer's Cross 1964, Medal of 10th Anniversary of People's Poland 1955. *Publications:* novels: Władza 1954, Z oblężonego miasta 1954, Rojsty 1956, Dziura w niebie 1959, Sennik współczesny (A Dreambook of Our Time) 1963, Wniebowstąpienie 1967, Zwierzoczłekoupiór 1969, Nic albo nic 1971, Kronika wypadków miłosnych 1974, Kalendarz i klepsydra (The Calendar and the Sand-Glass) 1976; short stories: Ogródek z nasturcją 1947, Przy budowie 1950, Godzina smutku 1954, Powrót 1954; film scripts: Zelazna kurtyna (Iron Curtain) 1954, Zimowy zmierzch (Winter Twilight) 1956, Ostatni dzień lata (Last Day of Summer) 1966; directed Grand Prix 1958. *Address:* Ul. Górskiego 1 m. 68, 00-033 Warsaw, Poland. *Telephone:* 27-04-81.

KOOPMANS, Tjalling Charles, M.A., PH.D.; American economist; b. 28 Aug. 1910, 'S Graveland, Netherlands; s. of Sjoerd and Wijtske van der Zee Koopmans; m. Truus Wanningen 1936; one s. two d.; ed. Univs. of Utrecht and Leiden; Teacher, Netherlands Econ. Univ., Rotterdam 1936-38; Specialist, Financial Div., League of Nations 1938-40; Research Assoc. School of Public and Int. Affairs, Princeton 1940-41; economist Penn Mutual Life Insurance Co. 1941-42; statistician Combined Shipping Adjustment Board and British Merchant Shipping Mission 1942-44; Research Assoc. Cowles Comm. Research Econs., Univ. of Chicago 1944-45, Assoc. Prof. 1946-48, Prof. 1948-55, Dir. Research Cowles Comm. 1948-54; Prof. of Econs. Yale Univ. 1955-, Dir. Cowles Foundation for research econs. 1961-67; Pres., American Econ. Assen. 1978; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences; Fellow, Econometric Soc., American Statistical Assen.; Hon. D.Econ. (Netherlands School of Econs., Catholic Univ. of Louvain), Hon. D.Sc. (Northwestern), Hon. LL.D. (Pennsylvania); Nobel Memorial Award for Economics 1975. *Publications:* Three Essays on the State of Economic Science 1957, Scientific Papers of Tjalling C. Koopmans 1970. *Address:* Department of Economics, Yale University, New Haven, Conn. 06520, U.S.A.

KOORNHOF, Pieter Gerhardus Jacobus, B.A. (STELL.), D.PHIL. (OXON.); South African politician; b. 2 Aug. 1925, Leeudoornstad; s. of Gerhardus Willem and Elizabeth Sarellina Koornhof; m. J. L. Steyn 1951; two s.; ed. Cen. High School, Bloemfontein, Paul Roos Gymnasium, Stellenbosch, Stellenbosch Univ. and Oxford Univ.; Mem. Parl. for Primrose; Research Officer Dept. of Bantu Admin. and Devt. 1953-58; Under-Sec. Nat. Party of Transvaal 1958-62; Dir. Cultural Information, FAK; Council mem. Johannesburg Gen. Hosp. Board and Staff Officer Pongola Regt., Citizens Force 1962-63; mem. S. African First Aid League, Nat. Youth Board and Vice-Chair. Management Board, Inst. for Youth Leaders 1963-64; mem. Parl. for Edenvale and Liaison Officer to Immigrants 1964-65; Chair. S. African Cultural Acad. and Dir. Soc. for European Immigrants 1965-66; Man. Dir. Nat. Veldtrust of S. Africa 1966; mem. Council for Rand Afrikaans Univ.; Deputy Minister of Bantu Admin. and Devt., Bantu Educ. and Immigration 1968-72; Minister of Mines, of Immigration and of Sport and Recreation 1972-76, of Nat. Educ. and of Sport and Recreation 1976-78, of Plural Relations and Devt. Nov. 1978-; Grand Officer's Cross of Merit, Order of the Knights of Malta 1973. *Leisure interests:* reading, golf. *Address:* P.O. Box 384, Pretoria (Office); 300 Oliver Street, Brooklyn, Pretoria, South Africa (Home). Telephone: 48-5171 (Office); 78-6106 (Home).

KOPEĆ, Aleksander, M.SC.(ENG.), PH.D.; Polish politician; b. 1932, Wąsowiczówka, U.S.S.R.; ed. Wrocław Polytechnic; Man. posts, Industrial Eng. Factory, Świdnik 1957-62; Chief Engineer, Van Factory, Świdnica 1962-67; Dir. Dolmel Works, Wrocław 1967-70; Under-Sec. of State, Ministry of the Machine (Engineering) Industry 1970-73, First Deputy Minister 1973-75, Minister Oct. 1975-; Deputy mem. Cen. Cttee., Polish United Workers' Party (PZPR) 1975-; Chair. Main Board, Chief Tech. Org. 1976-; Order of Banner of Labour (1st Class) and other decorations. *Address:* c/o Ministerstwo Przemysłu Maszynowego, Ul. Krucza 36, 00-522 Warsaw, Poland. *Telephone:* 28-96-05.

KÖPECZI, Béla; Hungarian literary historian; b. 16 Sept. 1921, Nagyenyed (Aiud in Romania); s. of Árpád Köpeczi and Anna Tomai; m. Edit Bölcskei 1951; ed. Budapest and Paris Univs.; Publr. 1949-53; Vice-Pres., Hungarian Council of Publishing 1953-55, Pres. 1955-61; Chair., Hungarian Board of Publishing 1955; Head, Cultural Dept. Hungarian Socialist Workers' Party 1964-66; Prof. Univ. of Budapest; mem. Hungarian Acad. of Sciences, Deputy Gen. Sec. 1970-72; Gen. Sec. 1972-75; Deputy Sec.-Gen. 1975-; Commdr. Palmes académiques (France). *Publications:* La France et la Hongrie au début du XVIIIe siècle 1971, Révolté ou révolutionnaire 1973, L'autobiographie d'un prince rebelle 1977, Kulturrevolution in Ungarn 1978, Mémoires de François II Rákóczi 1978. *Leisure interests:* reading, travelling. *Address:* II Tulipán-u. 5, 1022 Budapest, Hungary.

KOPER, Danis; Turkish civil engineer and politician; b. 19 Dec. 1908, Diyadin; s. of Murat Fuat Koper and Fikriye Belbez; m. Nesime Nimetullah 1949; one s. one d.; ed. Coll. of Technology, Munich; Engineer, Water Works Dept., Ministry of Public Works 1936-48; Construction Man. Garanti Insaat Co. 1948-51; Dir. Provincial Bank 1950-51; Gen. Man. Highway Dept. 1951-56; Under Sec. Ministry of Public Works 1956-57; Construction Man. Verdi Ltd. 1957-59; Chair. Turkish Airlines 1959-60; Minister of Public Works 1960; mem. Constitutional Assembly 1961; mem. Economic Research Foundation; Chair. Assen. of Chambers of Turkish Engineers and Architects 1958-60; Partner Bormak Co. Ltd. 1960-; Chair. Board and Exec. Comm. Eregli Iron and Steel Co. 1961-68, mem. Board 1975-; Chair. Board of Trustees, Ankara Koleji Foundation 1963-68, Middle East Tech. Univ. 1963-66; Gen. Sec. Turkish Atomic Energy Comm. 1970-71; Trustee, Hacettepe Univ. Foundation, Ankara 1970-72; Tech. Counsellor Yapi ve Kredi Bank 1972-, Man. 1978-; Chair. B. Bayindirlik Construction Corpn. 1972-; mem. Board Karadeniz Copper Works 1972-, Turyag Corpn. 1976-; Deputy Chair. Peteter Chemical Industries 1977-; mem. Board and Exec. Canakkale Cement Industries Corpn. 1975; Chevalier, Légion d'honneur. *Leisure interests:* reading, car driving. *Address:* Istiklal cad. Oda Kule, Kat. 6, Istanbul (Office); 378 Bagdat Cad. 8, Suadiye, Istanbul, Turkey (Home). *Telephone:* Istanbul 45-80-80 (Office); 58-49-99 (Home).

KOPPEL, John Patrick, B.A., F.T.I.; British company director; b. 17 Nov. 1913, London; s. of P. A. Koppel, and E. D. im Thurn; m. Hon. Jessica St. Aubyn 1939; one s. two d.; ed. Rugby School, Univ. of Freiburg-im-Breisgau, Magdalen Coll., Oxford; joined Courtaulds Ltd. 1935, research chemist 1937, 1939-40; Welsh Guards (Maj.) 1940-46; Geschäftsführer, Glanzstoff-Courtaulds, Cologne 1946-49; Gen. Man. Courtaulds Australia 1950-53; Chief Exec. and Deputy Chair. British Cellophane 1953-61; mem. board, Commercial Dir. Courtaulds Ltd. 1961-69, Deputy Chair. 1969-76; Consultant on clothing ind. to Bank of England 1976-78. *Leisure interests:* shooting, fishing, music. *Address:* Stainforth House, Settle, North Yorks., BD24 9PH, England. *Telephone:* (0792) 3579.

KORČÁK, Josef; Czechoslovak politician; b. 17 Dec. 1921, Holštejn; ed. School of Political Studies of Central Cttee. of CP of Czechoslovakia; Turner, Zbrojovka Brno 1937-48; posts in regional cttees. of CP 1948-60; mem. Cen. Cttee. CP of Czechoslovakia 1958-, mem. Presidium of Cen. Cttee. 1970-; mem. Bureau of Cen. Cttee., CP of Czechoslovakia for directing Party work in the Czech lands 1969-; Minister of Construction 1962-63; Minister in charge of Cen. Admin. of Power Supply 1963-68; Chair. Cen. Cttee. of Czech Nat. Front 1969-71; Prime Minister of Czech S.R. and Deputy Prime Minister of C.S.S.R. 1970-; Deputy to Nat. Assembly 1962-69, to House of People, Fed. Assembly 1969-; Deputy to Czech Nat. Council 1971-; Chair., Govt. Cttee. for Physical Fitness and Sports 1978-; Award for Merits in Construction 1958, Order of the

Repub. 1971, Order of Victorious February 1973, etc. *Address:* Government Presidium of Czechoslovak Socialist Republic, nábř. kpt. Jaroše 4, Prague 1, Czechoslovakia.

KOREN, Petter Mørch; Norwegian lawyer and politician; b. 22 Jan. 1910, Edinburgh, Scotland; s. of Dean Laurentius Stub Koren and Thordis Andrea Mørch Koren; m. Aase Dahl 1938; two s. three d.; ed. Univ. of Oslo; Solicitor 1934; Clerk 1935-36; Deputy Judge, District Judge of Larvik 1936-38; Sec. Ministry of Commerce 1938, Ministry of Shipping 1940; Head of Div. Ministry of Shipping 1942, Norwegian Govt. Savings and Contribution Office 1945, Ministry of Commerce 1948; Judge, City Court of Oslo 1956; Gov. of Oslo and Akershus 1966-; Minister of Justice 1963, 1972-73. *Address:* H. Heyerdahls St., Oslo-Dep (Office); Østhornveien 3, Oslo, Norway (Home). *Telephone:* 33-12-80 (Office); 23-20-15 (Home).

KOREN, Stephan, D.ECON.; Austrian university professor and politician; b. 14 Nov. 1919, Wiener Neustadt; m.; six c.; ed. High School and Univ. of Vienna; Mem. Austrian Inst. of Econ. Research 1945-65; Prof. of Econs. Univ. of Innsbruck 1965-68; Prof. of Political Econ. and Finance, Univ. of Commerce, Vienna 1968-; Under-Sec. of State for Econ. Questions, Fed. Chancellery 1967-68; Minister of Finance 1968-70; Leader, Parl. group of Austrian Conservative Party 1970-77; Pres. Austrian Nat. Bank 1977-. *Address:* Artariastrasse 6, 1170 Vienna, Austria. *Telephone:* 463697.

KORHONEN, Gunnar Aleksander, B.SC. (ECON); Finnish aviation executive; b. 22 April 1918, Finland; m. 1st Elli Tamminen 1943 (divorced), 2nd Seija Vapaa (née Niemi) 1969; one s.; employed by Bank of Savo-Karjala 1937-38; Office Man. and Head of Dept. of Ministry of Supply 1944-47; Sec. State Price and Wage Council 1947; Vice-Pres. Oy Masalin & Co. 1947-50; Pres. Hoyryvarustin Oy 1950-51; Head of Price Dept. Ministry of Social Affairs 1951-53; Dir.-in-Chief, Trade and Supply Section of Ministry of Commerce and Industry 1953-60; Chair. Board of Dirs. and Pres. of Finnair 1960-; Chair. Economic Council 1957-58; Delegate to the Scandinavian Council 1956-59; Chair. of the Finnish Group of the Collaboration Comm. on Scandinavian Economics 1957-59; Delegate at ECOSOC; Chair. of Board of Dirs. of Kar-Air Oy 1968-; Minister of Social Affairs and Public Health 1970, of Commerce and Trade 1971-72; mem. of various Boards of Admin. and Dirs. *Leisure interests:* reading, boating, skiing. *Address:* Finnair, Mannerheimintie 102, 00250 Helsinki 25 (Office); Vanrikki Stoolinkatu 3 A 7, Helsinki 10, Finland (Home).

KÔRI, Yuichi, LL.B.; Japanese politician; b. 16 March 1902, Takanawa Kuruma-cho, Shiba-ku; s. of Atsushi and Taka-ko Kôri; m. Hisae Kameyama 1932; two s. one d.; ed. Tokyo Univ.; with Ministry of Home Affairs 1929-45; Dir. Local Admin. 1946; Gov. Ishikawa Prefecture 1947; Deputy Chief Sec. of Cabinet 1948-50; mem. House of Councillors 1950-; Minister of Home Affairs 1957-58; Chair. Discipline Cttee., Liberal Democratic Party 1960-62; Minister of Posts and Telecommunications June 1965-66; Minister of Justice July-Dec. 1972; 1st Class Order of the Rising Sun 1972. *Publications:* Lectures on New Election System 1948, Lectures on Secret Protection Law 1954. *Leisure interest:* archery. *Address:* 19-5, Otsuka 4-chome, Bunkyo-ku, Tokyo, Japan. *Telephone:* 946-3000.

KORINEK, Franz, D.IUR.; Austrian lawyer; b. 20 May 1907, Schlösselhof; s. of Wenzel and Maria Korinek; m. Viktoria Schuschu 1937; one s.; ed. Vienna Univ.; practised law in Vienna 1931-34, 1938-47; Leading Sec. Provincial Union of Trades and Commerce of Carinthia 1934-38; Rep. Sec.-Gen. Fed. Chamber of Commerce 1947-48, Sec.-Gen. 1950-66; Fed. Minister of Finance 1963-64; Dir. Vienna Chamber of Commerce 1948-50; Vice-Chair. Pensions-versicherungsanstalt der Angestellten 1948-63; Vice-Chair. Hauptverband der Österreichischen Sozialversicherungsträger 1949-63; Man. of Security Funds for Credits 1968-73; Grand Golden Order of Merit of the Austrian Repub., Grand Cross Order of St. Silvester, Commdr. Order of the Lion (Finland), Commdr. Order of Orange-Nassau, Grand Cross (2nd Class), Order of Merit of Fed. Repub. of Germany, Grand Officer's Cross Order of Merit of Italian Repub., etc.; People's Party. *Leisure interests:* philosophy, law and political economy, music and theatre. *Address:* Esterhazygasse 32, A-1060 Vienna, Austria. *Telephone:* 0222-57-40-105.

KORNBERG, Arthur, M.D., D.SC., LL.D., L.H.D.; American biochemist; b. 3 March 1918, New York; s. of Joseph and Lena Katz Kornberg; m. Sylvy R. Levy 1943; three s.; ed. City Coll. of New York and Univ. of Rochester; commissioned Officer, U.S. Public Health Service 1941-42; Nat. Insts. of Health, Bethesda, Md. 1942-52; Prof. and Chair. Dept. of Microbiology, Washington Univ. School of Medicine 1953-59; Prof., Dept. of Biochemistry, Stanford Univ. School of Medicine 1959-, Head 1959-69; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences; Foreign mem. Royal Soc. 1970-; Hon. LL.D., City Coll. of New York 1960, D.Sc. (Notre Dame, Washington, Rochester and Pennsylvania), L.H.D. (Yeshiva Univ.) 1962, D.Sc. (Princeton) 1970, D.Sc. (Colby Coll.) 1970; Nobel Prize in Medicine and Physiology (with Prof. Ochoa) 1959 and many other awards. *Publications:* numerous original research papers and reviews on subjects in biochemistry, particularly enzymatic mechanisms of biosynthetic reactions. *Address:* c/o Department of Biochemistry, Stanford University School of Medicine, Stanford, Calif. 94305 (Office); 365 Golden Oak Drive, Portola Valley, Calif. 94025, U.S.A. (Home). *Telephone:* (415) 851-0287.

KORNBERG, Sir Hans Leo, Kt., M.A., D.SC., SC.D., PH.D., F.R.S.; British professor of biochemistry; b. 14 Jan. 1928, Herford, Germany; s. of Max and Margarete Silberbach Kornberg; m. Monica M. King 1956; twin s. two d.; ed. Queen Elizabeth Grammar School, Wakefield and Univ. of Sheffield; John Stokes Research Fellow, Univ. of Sheffield 1952-53; [redacted] Medical Research Council Cell Metabolism Research Unit, Univ. of Oxford 1955-61; Lecturer in Biochem., Worcester Coll., Oxford 1958-61; Prof. of Biochem., Univ. of Leicester 1961-75; Sir William Dunn Prof. of Biochem., Univ. Cambridge 1975-; Fellow Christ's Coll., Cambridge 1975-; Chair. Science Board, S.R.C. 1969-72, [redacted] 1967-72; Chair. Royal Comm. on Environmental Pollution 1976-; CIBA Lecturer, Rutgers N.J. 1968; Life Sciences Lecturer, Univ. of Calif. (Davis) 1971; Visiting Lecturer, Australian Biochemical Soc. 1973; Distinguished Visiting Prof., Univ. of Cincinnati 1974; Visiting Prof., Univ. of Miami, Medical School 1970; Weizmann Memorial Lecturer 1975; Febs-Springer Lecturer 1975; Griffith Memorial Lecturer 1976; Leverhulme Memorial Lecturer 1977; Barton-Wright Memorial Lecturer 1977; Commonwealth Fund Fellow (Yale and N.Y. Univs.) 1953-55; Hon. mem. Soc. Biological Chem. (U.S.A.) 1972; Fellow, Inst. of Biology 1966, Vice-Pres. 1969-72; Leuwenhoek Lecturer, Royal Soc. 1972; Man. Trustee, Nuffield Foundation 1973-; Hon. Sc.D. (Cincinnati) 1974, Hon. D.Sc. (Warwick) 1975, (Leicester) 1979, (Sheffield) 1979; Colworth Medal (Biochemical Soc.) 1965, Warburg Medal (Gesellschaft für biologische Chemie der Bundesrepublik, Fed. Repub. of Germany) 1973. *Publications:* numerous articles in scientific journals. *Leisure interests:* conversation, cooking. *Address:* Department of Biochemistry, Tennis Court Road, Cambridge, CB2 1QW (Office); Pine Trees, 111 Glebe Road, Cambridge, CB1 4TE, England (Home). *Telephone:* 0223-51781 (Office); 0223-49483 (Home).

KÖRNER, Stephan, JUR.DR., PH.D., F.B.A.; British philosopher; b. 26 Sept. 1913, Ostrava, Czechoslovakia; s. of Emil Körner and Erna Maier Körner; m. Edith Laner, B.SC., J.P., 1944; one s. one d.; ed. Classical Gymnasium, Charles Univ., Prague, and Trinity Hall, Cambridge; Army Service 1936-39, 1943-46; Lecturer in Philosophy, Univ. of Bristol 1946-52, Prof. 1952-79, Dean, Faculty of Arts 1965-66; Pro-Vice-Chancellor, Univ. of Bristol 1968-71; Prof. Yale Univ. 1971-; Visiting Prof. of Philosophy, Brown Univ. 1957, Yale Univ. 1960, Texas Univ. 1964, Indiana Univ. 1967; Editor Ratio 1960-; Pres. British Soc. for Philosophy of Science 1965, Aristotelian Soc. 1967, Int. Union of History and Philosophy of Science (Div. of Logic, Methodology and Phil. of Science) 1969-71, Mind Assn. 1973; Fellow of British Acad. 1967; mem. Int. Inst. of Philosophy 1971-. *Publications:* Kant 1955, Conceptual Thinking 1955, The Philosophy of Mathematics 1960, Experience and Theory 1966, Kant's Conception of Freedom (British Acad. Lecture) 1967, What is Philosophy? 1969, Categorial Frameworks 1970, Abstraction in Science and Morals 1971, Experience and Conduct 1976; Editor Observation and Interpretation 1957, Philosophy of Logic 1976; contributor to philosophical periodicals. *Leisure interest:* walking. *Address:* Department of Philosophy, The University, Bristol, BS8 1RJ (Office); 10 Belgrave Road, Bristol, BS8 2AB, England. (Home). *Telephone:* 24161 (Office); 33036 (Home).

KOROM, Mihály, LL.D.; Hungarian lawyer and politician; b. 9 Oct. 1927, Mindszent; ed. Budapest Univ., Hungarian Socialist Workers Party Univ.; farmhand until 1945; various police posts 1945; mem. Hungarian Socialist Workers' Party 1946-; later Dept. Head, Ministry of Interior; Maj.-Gen. and Nat. Commdr. Frontier Guard Force 1960-63; Sec. Cen. Cttee. Hungarian Socialist Workers' Party 1963-66, 1978-; Minister of Justice 1966-78. *Leisure interests:* sport, football. *Address:* c/o Hungarian Socialist Workers' Party, H-1387 Budapest, Széchenyi rakpart 19, Hungary. *Telephone:* 111-400.

KOROMA, Sorie Ibrahim; Sierra Leonean politician; b. 30 Jan. 1930, Port Loko; m.; c.; ed. Govt. Model School, Freetown, Bo Govt. School and Co-operative Coll., Ibadan, Nigeria; worked in Co-operative Dept. 1951-58; in private business 1958-62; First Sec.-Gen. Sierra Leone Motor Transport Union 1958; mem. Parl. 1962-65, 1967-; Councillor and Deputy Union 1958; mem. Parl. 1962-65, 1967-; Councillor and Deputy Mayor of Freetown 1964; Minister

of Trade and Industry 1968-69, of Agric. and Nat. Resources 1969-71; Vice-Pres. of Sierra Leone 1971-78, First Vice-Pres. 1978-, Prime Minister 1971-75, Minister of the Interior 1971-73, of Finance 1975-78, of Devt. and Econ. Planning 1977-78, of State Enterprises 1978-; Vice-Chair. FAO Conf., Rome 1971; Rep. of Sierra Leone to OAU Summit Conf., Addis Ababa 1971, Morocco 1972; decoration from Lebanon, People's Repub. of China, Ethiopia, Liberia. *Leisure interests:* reading, football, sport. *Address:* Office of the First Vice-President, Tower Hill, Freetown, Sierra Leone. *Telephone:* 2757.

KORRY, Edward M.; American journalist and diplomatist; b. 7 Jan. 1922, New York; m. Patricia McCarthy 1950; one s. three d.; ed. Washington and Lee Univ. and Harvard Graduate School of Business Management; Nat. Broadcasting Co. 1942; United Press, New York 1943-47, London 1947, Chief Corresp. for U.N. 1948, for Eastern Europe (Belgrade) 1948-50, Man. for Germany 1951, for France 1952, Chief European Corresp. 1954; European Editor, Look magazine 1955-60; Asst. to Gardner Cowles and Pres. Cowles Magazine and Broadcasting Inc. 1960-63; Amb. to Ethiopia 1963-67, to Chile 1967-71; Consultant to Pres. of Overseas Private Investment Corpn. 1972; Pres. Assen. of American Publrs. 1972-73, UN Assen., U.S.A. 1973-74. *Address:* 12 Denison Avenue, Stonington, Conn., 06378, U.S.A. *Telephone:* (203) 535-2162.

KORTH, Fred, A.B., LL.B.; American banker, lawyer and government official; b. 9 Sept. 1909, Yorktown, Texas; s. of Fritz R. J. and Eleanor Marie Stark Korth; m. Vera Connell 1934 (divorced 1964); one s. two d.; ed. Texas and George Washington Univs.; admitted to Bar 1935; law practice Fort Worth 1935-62; Deputy Counsellor, Dept. of the Army 1951-52, Asst. Sec. of Army 1952-53; Consultant to Sec. of Army 1953-60; Exec. Vice-Pres. Continental Nat. Bank, Fort Worth 1953-59, Pres. 1959-62; Sec. of the Navy 1962-64, private law practice 1964-; Co-Executor and Co-Trustee, Marjorie Merriweather Post Estate; fmr. Dir. All States Life Insurance Co., Bell Aerospace Corpn., T. & P. Railway, Panama Canal Co.; mem. American Bar Assen., American Law Inst., Nat. Council Nat. Planning Assen.; recipient of Exceptional Civilian Service Award, Army Dept. 1953; Dir. Fischbach and Moore, First City Nat. Bank of El Paso, American Air Filter Co., OKC Corpn.; Hon. LL.D. *Leisure interests:* hunting and fishing. *Address:* 401 Barr Building, Farragut Square, Washington D.C. 20006; El Retiro, P.O. Box 13, Ecleto, Tex. 78111, U.S.A. (Summer Home). *Telephone:* (202) 223-3630; 512-SU9-2301 (Summer).

KORTHALS, Hendrik Albertus; Netherlands politician; b. 3 July 1911, Dordrecht; s. of A. H. Korthals; m. Marie Cécile Hamming 1940; two s. two d.; ed. Rotterdam Economic High School; Editor Nieuwe Rotterdamse Courant 1936-40; official, Ministry for Trade, Shipping and Industry 1940-45; mem. of Parl. 1945-59; mem. Cons. Assembly of Council of Europe 1949-59; Parl. Coal and Steel Community and European Parl. 1952-59; Deputy Premier and Minister of Transport and Waterways 1959-63; mem. Council of State; Pres. Press Council; Adviser Board Netherlands Org. for Int. Development Co-operation; Vice-Pres. World Broadcasting; Liberal. *Leisure interest:* history. *Address:* 63 Witte Singel, Leiden, Netherlands. *Telephone:* 133790.

KORÜTURK, Admiral Fahri S.; Turkish naval officer and politician; b. 1903, Istanbul; m.; two s. one d.; ed. Naval Acad. and Naval War Coll.; joined Navy 1920; Naval Attaché, Berlin 1935, Rome 1936, Berlin and Stockholm 1942-43; Commdr. of Submarine Fleet 1953; Chief of Intelligence, Gen. Staff 1954; Commdr. of Sea-Going Fleet 1955-56; C.-in-C. Straits Area 1956-57; Adm. 1957; C.-in-C. of Navy and Commdr. of Allied Forces, Black Sea 1957-60; Amb. to U.S.S.R. 1960-64, to Spain 1964-65; mem. Defence Cttee. of the Senate 1968; Pres. of Turkey April 1973-. *Address:* The Presidency, Ankara, Turkey.

KORVALD, Lars; Norwegian politician; b. 29 April 1916, Nedre Eiker; s. of Engebret Korvald and Karen Wigen; m. Ruth Borgersen 1943; one s. four d.; ed. Coll. of Agriculture; Teacher, Tomb School of Agric. 1943-48; Chief Adviser, League of Norwegian Agricultural Clubs 1948-52; Headmaster, Tomb School of Agric. 1952; mem. Storting 1961-; del. to UN Gen. Assembly 1963, 1968; mem. Advisory Assembly, Council of Europe 1965-70; mem. Nordic Council 1966-; Chair. Christian Dem. Party 1967-75, 1977-79; Pres. Lagting (Upper House of Storting) 1969-72; Prime Minister 1972-73. *Leisure interests:* skiing, literature. *Address:* 3050 Mjondalen, Norway.

KORZENIEWSKI, Bohdan, DR.PHIL.; Polish theatre and film director (retd.); b. 12 April 1905, Siedlce; s. of Józef and Stanisława Korzeniewski; m. Ewa Rostowska; one s. one d.; ed. Faculty of Humanities, Warsaw Univ.; worked at Nat. Library, Warsaw 1932; studied eighteenth-century theatre in Paris 1933-34; theatre critic 1934-, Lecturer in History of Theatre, State Inst. of Theatrical Art 1934-39; active in resistance movt. during World War II; Literary Dir. Theatre of Polish Army, Łódź 1945-46; Dean, State Higher School of Theatrical Art, Łódź 1946-48, Warsaw 1949-76, Prof. and Dean, Dept. of Staging 1956-76; Prof. Emer. 1976-; co-editor Teatr 1949-52; Dir. Teatr Polski 1949-52, Narodowy 1954-56; Editor-in-Chief Pamiętnik teatralny 1956-; had produced plays by Shakespeare, Molière, Mayakovsky, Mickiewicz, Krasinski and Fredro in the G.D.R., France, the U.K. and the U.S.S.R.; mem. Polish Cultural Council and Science Council of State Inst. of Art; State Prize 1951, 1954; numerous Polish and foreign decorations. *Publications:* Drama in Warsaw National Theatre, a book on early 19th century melodrama, Discussions About Theatre (theatrical reviews), I Want Freedom for Thunder ... in the Theatre (essays), and numerous translations of English, French and Russian plays. *Leisure interests:* gardening, car, walking. *Address:* Ul. Miączynska 11, 02-637 Warsaw, Poland. *Telephone:* 44-1831.

KORZHEV-CHUVELYOV, Gely Mikhailovich; Soviet artist; b. 7 July 1925, Moscow, ed. Surikov State Inst. of Arts, Moscow; professional artist 1950-; has participated in many Soviet and foreign exhbns. 1950-; Prof. Moscow Higher Artist-Tech. Inst. 1966-; mem. U.S.S.R. Acad. of Arts 1970-; Chair. of Board of Artists' Union of R.S.F.S.R. 1968-; Sec. Board of Dirs. of Artists' Union of U.S.S.R.; Merited Worker of Arts of the R.S.F.S.R.; Repin State Prize of U.S.S.R.; People's Artist of the R.S.F.S.R. 1972. *Address:* c/o Artists' Union of the U.S.S.R., Gogolevsky boulevard 10, Moscow, U.S.S.R.

KORZHINSKY, Dmitriy Sergeyevich; Soviet geologist; b. 13 Sept. 1899, St. Petersburg (now Leningrad); ed. Leningrad Mining Inst.; Geologist, All-Union Geological Inst., Leningrad 1925-37; Asst. Prof., Prof. Leningrad Mining Inst. 1929-40; Senior Scientific Collaborator, Inst. of the Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry (I.G.E.M.), Acad. of Sciences of U.S.S.R. 1937-, Head of Section of Metasomatism and Metamorphism, I.G.E.M. 1956-; Dir. Inst. of Experimental Mineralogy, U.S.S.R. Acad. of Sciences 1969-; Corresp. mem. U.S.S.R. Acad. of Sciences 1943-53, mem. 1953-; Hon. Fellow Geological Soc. of America 1959; mem. Geological Soc. of London 1962; hon. mem. Geological Soc. of German Democratic Repub. 1963, Bulgarian Geolocial Soc. 1968; mem. Akad. der Naturforscher Leopoldina, German Democratic Repub. 1968; Vice-Pres. Int. Mineralogical Assen. 1965-70; Vice-Pres. U.S.S.R. Mineralogical Soc. 1964-; U.S.S.R. State Prize for Science 1946, 1975, Lenin Prize 1958, Hero of Socialist Labour 1969, Golden V.I. Vernadskii Medal, U.S.S.R. Acad. of Sciences 1972, Order of Lenin, Order of Red Banner and other decorations. *Publications:* Factors of Mineral Equilibria and Mineralogical Facies of Depth 1940, Regularities of Mineral Associations in Archean Rocks of E. Siberia 1945, Formation of Skarn Deposits 1945, Bimetasomatic Phlogopite and Lazurite Deposits of the Archean of Baikal Region 1947, Petrology of Turja Skarn Deposits of Copper 1948, Outline of Metasomatic Processes 1953, 1955, Physicochemical Basis of the Analysis of the Parageneses of Minerals 1957, 1959, 1973, Theory of Metasomatic Zoning 1970. *Address:* c/o Institute of the Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry (I.G.E.M.) of U.S.S.R. Academy of Sciences, 35 Pereulok Staromonetny, Moscow, 109017 U.S.S.R.

KOS-ANATOLSKYI, Anatoliy Yossypovych; Soviet (Ukrainian) composer; b. 1 Dec. 1909, Kolomyya, Ivano-Frankivsk Region, Ukraine; s. of Yossyp Kos and Lidya Kopystianska; m. 1st Sophia Ivantchuk 1942, one d.; m. 2nd Nadia Opryshko 1967; two s.; ed. Lvov Conservatoire, Lvov Univ.; Chair. Lvov Branch Ukrainian Composers' Union; mem. Ukrainian Composers' Union Board; mem. U.S.S.R. Composers' Union Board; Assoc. Prof. Lvov Conservatoire 1954, Prof. 1973-; mem. Soviet of Nationalities Credential Comm.; Deputy to U.S.S.R. Supreme Soviet 1970-79; People's Artist of Ukraine; Orders of Red Banner of Labour 1951, of Lenin 1960, State Prize 1951. *Principal compositions:* opera: Glow 1957; ballets: Dovbush's Shawl 1951, Jay's Wing 1957, Oryssia 1967; choral works: New Verkhovyna, From Moscow to the Carpathians, In the Carpathian Mountains, Encounter on the Stubble, Hutsul Waltz, Song Cycles; other works include: Concerto for Harp and Orchestra, Transcarpathian Rhapsody for Violin and Piano, Concerto for Piano and Orchestra, Immortal Testament (cantata), From the Niagara to the Dnipro (oratorio), Spring Storms (operetta), I'll go to the Mountains, The Nightingale's Romance, O, You, My Tiny Girl. *Publication:* monograph on S. Ludkevych. *Leisure interests:* archaeology, linguistics, football. *Address:* c/o Ukrainian Composers' Union, Lvov Branch, 7 Tchaikovsky Street, Lvov, U.S.S.R.

KOSAKA, Tokusaburo; Japanese politician; b. 20 Jan. 1916, Nagano Pref.; s. of Jyunzo and Hanako Kosaka; m. Asako Mitsui, 1942; three d.; ed. Tokyo Univ.; joined Asahi Newspaper Co.; Man. Shinetsu Chemical Industry Co. 1949, Vice-Pres. 1951, later Pres.;

Lecturer, Dept. of Economics, Univ. of Tokyo 1959-62, Dept. of Commercial Sciences, Keio Univ. 1960-62, Dir. Japan Chemical Industry Assen., Coal Industry Assen., Shinano Mainichi Newspaper Co., Shinano Broadcasting Co.; [illegible] House of Reps. 1969-; Dir.-Gen. Prime Minister's Office 1973-74; Chair. Public Relations Cttee., Liberal Dem. Party 1976-77, Econ. and Price Policy Board, Liberal Dem. Party 1977-78; Minister of State for Econ. Planning 1978-. *Leisure interests:* tennis, skiing, swimming. *Address:* 21-28, Fukazawa-cho, 7-chome, Setagaya-ku, Tokyo 158, Japan. *Telephone:* 03-701-1400 (Home).

KOSAKA, Zentaro; Japanese politician; b. 23 Jan. 1913; m. Masuko Ohtani 1957; two s. [illegible] d.; ed. Tokyo Univ. of Commerce; Mitsubishi Bank 1935-39; Dir. Shinetsu Chemical Industry Co. 1940-45; mem. of House of Representatives 1946; Minister of Labour 1953-54; Minister of Foreign Affairs 1960-62, Sept.-Dec. 1976; Minister of State for Econ. Planning 1972-73; Gran Cruz de la Orden El Sol del Perú, First Class of the Order Homayoun of Iran, and decorations from Thailand, Pakistan, Ethiopia, Brazil, Argentina and Paraguay. *Publications:* Chukyo Mitamama (Communist China As I Saw It), Pen to Daïgishi (Pen and [illegible] Diet Member), Atarashiki Kuni no Ibuki (Seeking Nation's New Spirits). *Leisure interests:* golf, art appreciation. *Address:* Denenchofu 4-26-22, Ohtaku, Tokyo, Japan. *Telephone:* 721-2838.

KOSCHNICK, Hans Karl-Heinrich; German politician; b. 2 April 1929; ed. Mittelschule; Local Govt. Official, Bremen 1945-51 and 1954-63; Trade Union Sec. of the Union of Public Employees, Transport and Communications (ÖTV) 1951-54; mem. Social Democratic Party (SPD) 1950-; mem. Parl. of Land Bremen (Landtag) and City Council 1955-63; Senator for the Interior 1963-67; Mayor of Bremen 1965-; Pres. of the Senate, Bremen 1967-; [illegible] Fed. Council (Bundesrat) 1963-; Nat. Vice-Chair. SPD 1975-; Chair., German Union of Local Authorities (Deutscher Städtetag) 1971-77. *Address:* Rudolstädter Weg 9, 2800 Bremen, Federal Republic of Germany. *Telephone:* 3621.

KOSCIUSKO-MORIZET, Jacques; French diplomatist; b. 31 Jan. 1913, Paris; s. of Charles and Diane Milliaud Kosciusko; m. Marianne Morizet 1939; two s. two d.; ed. Lycée Rollin and Lycée Henri IV, Paris, and Ecole Normale Supérieure; Teacher Lycée de Grenoble, Teacher Lycée Marcelin-Berthelot 1941-42, Lycée Buffon, Paris 1943-44; Asst. Prof. of French Literature, Faculty of Letters, Paris 1944-46; Prof. Columbia Univ., U.S.A. 1946; Asst. Chief of Civil Staff of Pres. of Nat. Assembly Jan.-Dec. 1946, of Pres. of Provisional French Govt. 1946-47; Chief of Civil Staff of Pres. of France 1946-53, Chief of Civil Staff of Félix Houphouët-Boigny 1956-57; French Del. to UN Trusteeship Council 1957-63; Amb. to Congo (Kinshasa) 1963-68; Dir. of Technical and Cultural Affairs at Secr. of State for Foreign Affairs Feb.-Dec. 1968; French Perm. Rep. to North Atlantic Council, Brussels 1969-70; Perm. Rep. to UN 1970-72; Amb. to U.S.A. 1972-77; Commdr. Légion d'honneur, Croix de guerre, Rosette de la Résistance; Hon. K.C.V.O.; Ambassadeur de France. *Publications:* Diderot et Hagedorn 1935, Propos sur le Ministère des Jeunes 1955, Pari [illegible] la Communauté franco-africaine 1957. *Leisure interests:* piano, tennis, skiing, golf. *Address:* 20 rue de Tournon, 75006 Paris, France. *Telephone:* 033-11-70 (Paris).

KOSHLAND, Daniel E., Jr., B.S., PH.D.; American professor of biochemistry; b. 30 March 1920, New York; s. of Daniel E. and Eleanor Haas Koshland; m. Marian Elizabeth Elliott 1945; two s. three d.; ed. Univs. of Calif. and Chicago; Analytical Chemist, Shell Chemical Co. 1941-42; Research Assoc. and Group Leader, Manhattan District, Univ. of Chicago and Oak Ridge Nat. Lab. 1941-46; Post-doctoral Fellow, Harvard Univ. 1949-51; Assoc. Biochemist, Biochemist, Senior Biochemist, Brookhaven Nat. Lab. 1951-65; Affiliate, Rockefeller Univ. 1958-65; Prof. of Biochem., Univ. of Calif., Berkeley 1965-, Chair. Dept. Biochem. 1973-; Visiting Prof. Cornell Univ. 1957-58; Pres. American Soc. of Biological Chemists 1973-74; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Hon. mem. Japanese Biochem. Soc.; Guggenheim Fellow 1972, Visiting Fellow, All Souls' Coll., Oxford 1971-72; Fellow, American Assen. for Advancement of Science; J. Ducrett Jones Award 1977. *Publications:* Articles on enzymes in scientific journals. *Leisure interests:* tennis, golf, sailing. *Address:* c/o Department of Biochemistry, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 642-0416.

KOŠLER, Zdeněk; Czechoslovak conductor; b. 25 March 1928, Prague; ed. Acad. of Music and Dramatic Arts, Prague; [illegible] concentration camp during Second World War; Guest Conductor, Prague Nat. Theatre 1951-; Artistic Dir. Olomouc Opera 1958-62; Chief, Ostrava Opera 1962-66; Asst. Conductor, New York Philharmonic Orchestra 1963-64; F.O.K. Orchestra, Prague 1966-67; Chief Conductor Berlin Komische Oper 1967-71, Opera of the Slovak Nat. Theatre, Bratislava 1971-76; Guest Conductor of Nat. Theatre, Bratislava 1971-76; Guest Conductor of Czech Philharmonic Orchestra, Prague 1971-76, Conductor 1976-; concert tours of Japan 1969, 1974, 1975, Great Britain 1975, 1977, Austria, France, Italy and Switzerland 1976; Award for Outstanding Work 1958, First Prize in young conductors' competition, Besançon 1956, First Prize and Gold Medal, D. Mitropoulos Int. Competition, New York 1963, Artist of Merit 1974. *Address:* Prague 4, M. Pujmanové 882; and Česká filharmonie, Dům umělců, Prague 1, Czechoslovakia. *Telephone:* Prague 435-80-32.

KOSOLAPOV, Valeriy Alekseyevich; Soviet journalist and literary critic; b. 10 June 1910, Ardatov, Gorky Region; ed. Gorky Teachers Training Institute; Lecturer, Gorky Teachers Training Inst. 1932-41; Soviet Army 1941-48; Editor of mil. newspaper Krasny Voin 1944-46; [illegible] CPSU Cen. Cttee. 1948-51; Deputy Chief Editor, then Chief Editor Literaturnaya Gazeta 1951-62; Dir. Khudozhestvennaya literatura Publishing House 1963-70; Chief Editor Novy Mir journal 1970-74, mem. Editorial Board 1974-; R.S.F.S.R. Merited Worker for Culture; Order of Red Banner of Labour, Badge of Honour. *Address:* Novy Mir, 5 Ploshchad Pushkina, Moscow, U.S.S.R.

KOSTANDOV, Leonid Arkadiyevich; Soviet chemical engineer and politician; b. 1915; ed. Moscow Inst. of Chemical Engineering; fmrly. worked at large chemical combines, Central Asia; Chair. State Cttee. for Chemical Industry until 1965; Minister of Chemical Industry 1965-; Deputy to U.S.S.R. Supreme Soviet 1966-; Cand. [illegible] CPSU Cen. Cttee. 1966-71, mem. 1971-; State and Lenin prizes and other decorations. *Address:* c/o Ministry of Chemical Industry, 20 ulitsa Kirova, Moscow, U.S.S.R.

KOSTELANETZ, André; American (Russian-born) conductor; ed. St. Peter's School, and Conservatoire, St. Petersburg; Conductor of his own orchestra for the Columbia Broadcasting System; organized and conducted tours of army orchestras in North Africa, Persian Gulf [illegible] and Italy 1944, China, Burma and India 1944-45; Guest Conductor with New York Philharmonic, Boston Symphony, Philadelphia, San Francisco Symphony and [illegible] other leading orchestras in the U.S.A., Canada, Europe, Israel and South America; Hon. Mus.D. (Albion Coll., Michigan, Cincinnati Conservatory of Music). *Address:* 1995 Broadway, 11th Floor, New York, N.Y. 10023, U.S.A.

KOSTENKO, Mikhail Poliyevktovich; Soviet electrical engineer; b. 28 Dec. 1889, Veidelevka, Byelgorod Region; s. of Poliyevkt Ivanovich Kostenko and Maria Isoifovna Kuznyetsova; m. Olga Vasiliyevna Karasiova 1919; two d.; ed. Petrograd (now Leningrad) Polytechnical Inst.; Petrograd Polytechnical Inst. 1918-30; Prof. at Cen. Asian Industrial Inst. 1941-44; Dir. Leningrad Branch, U.S.S.R. Acad. of Sciences Inst. of Automation and Telemechanics 1951-55; Dir. Inst. of Electromechanics of U.S.S.R. Acad. of Sciences 1956-; Corresp. mem. U.S.S.R. Acad. of Sciences 1939-53, mem. 1953-, mem. Presidium 1957-63; Hon. Scientific and Tech. Worker of Uzbek S.S.R. 1944-; Deputy to U.S.S.R. Supreme Soviet 1958; State Prize 1949, 1951, Lenin Prize 1958, Hero of Socialist Labour 1969, Order of Lenin (three times), Red Banner of Labour (twice), and other decorations. *Publications:* Alternating Current Commutator Machines 1933, Electrical Machines 1944-49, Electrical Machine Building 1953, Theory and Calculation of Three-Phase Commutator Machines and Cascade Systems 1964, Electrical Machines 1974, and numerous other publications. *Address:* c/o Institute of Electromechanics, 18 Dvorzovaya Naberezhnaya, Leningrad (Office); Dobrolubova 21a-28, Leningrad 197049, U.S.S.R. (Home). *Telephone:* 14-67-17 (Office); 33-21-05 (Home).

KOSTER, Henri Johan de; Netherlands industrialist and politician; b. 5 Nov. 1914, Leiden; s. of Arie de Koster and Johanna Adriana Sythoff; m. Goverdina Burgersdyk 1958; one s. three d.; ed. Amsterdam Univ. and in London, Dublin and New York; with Meelfabriek De Sleutels 1937-, Man. Dir. 1939-67; Netherlands Commr. in New York, Food Purchasing Bureau 1945; Pres. Federation of Netherlands' Employers 1960-67, Union des Industries de la Communauté Européenne (UNICE) 1962-67; Sec. of State for Foreign Affairs 1967-71; Minister of Defence 1971-73; mem. Parl. 1971-77; Senator 1977-; Pres. Parl. Council of Europe 1977-. Knight, Order of Netherlands Lion, Grand Officer Order of Orange Nassau, and other decorations. *Leisure interests:* reading, swimming, golf, art. *Address:* Weiduin, Prins Frederiklaen 28, Wassenaar, Netherlands. *Telephone:* The Hague 649395 (Office); Wassenaar 79898 (Home).

KOSTER, Willem, DR. ECON.; Netherlands economist and banker; b. 24 Sept. 1911, Utrecht; m. Henriëtte C. J. van Mastrigt 1937; three d.; ed. Neths. School of Economics, Rotterdam; Civil servant

Netherlands and Netherlands East Indies Govts., The Hague and Batavia 1936-46; Alternate Exec. Dir., Int. Bank for Reconstruction and Development and of Int. Monetary Fund for the Netherlands, Norway and the Union of South Africa 1946-49; Treasurer-Gen. of the Netherlands, The Hague 1949-51; Int. Bank for Reconstruction and Development 1951-53; Gen. Man. Netherlands Bank of South Africa Ltd. 1953-65; Lecturer Econs., Univ. of Natal, Durban 1966-67; Econ. Adviser The Hague; Knight Order of Netherlands Lion. *Publication:* Aspects of Banking and Monetary Control in South Africa 1965. *Leisure interests:* reading, photography. *Address:* 7 Sijzenlaan, The Hague, Netherlands. *Telephone:* 070-394189.

KOSTRZEWSKI, Jan Karol, M.D., M.P.H.; Polish scientist and politician; b. 2 Dec. 1915, Cracow, Poland; s. of Jan Kostrzewski and Maria Sulikowska; m. Ewa Sobolewska 1948; one s. three d.; ed. Jagiellonian Univ., Cracow; Health Service Doctor 1939-51; Head of Epidemiology Dept., State Hygiene Inst., Warsaw 1951-67; Prof. of Epidemiology Warsaw Medical Acad. 1954-60; Under-Sec. of State, Ministry of Health and Social Welfare and Chief Sanitary Inspector 1961-68; Minister of Health and Social Welfare 1968-72; Scientist State Hygiene Inst. 1973-; Head of Epidemiology Dept.; Corresp. mem. Polish Acad. of Sciences 1967-76, Full mem. 1976-, mem. Presidium 1971-, Sec. Dept. of Medical Sciences 1972-; mem. Exec. Board World Health Org. 1973, Chair. 1975; mem. Council Int. Epidemiological Assn. 1974, Pres. 1977-; Hon. mem. Mechnikov Soc. Microbiologists and Epidemiologists 1956; Sec. Int. Comm. for Assessment of Smallpox Eradication in India, Nepal and Bhutan; Order of Banner of Labour 1st and 2nd Class, Comandoria and Knight's Cross, Order of Polonia Restituta, Cross of Valour, Gold Cross of Merit. *Publications:* numerous works on epidemiology. *Leisure interests:* sport, photography, skiing, fishing. *Address:* Państwowy Zakład Higieny, ul. Chocimska 24, Warsaw (Office); Aleja Róż 10 m. 6, 00-556 Warsaw, Poland. (Home). *Telephone:* 497702.

KOSTUSOV, Anatoliy Ivanovich; Soviet politician; b. 1906; ed. Moscow Machine Tool and Instrument Building Inst.; Mem. CPSU 1925-; with machine tool building enterprises 1933-46; Deputy Minister Machine Tool Bldg. 1946-49, Minister 1949-53; Deputy Minister Machine Bldg. 1953-54; Minister Machine Tool Building and Instruments Industries 1954-57; Chair. Moscow Econ. Council 1957-59; Chair. State Cttee. for Automation and Machine Building 1959-65; Minister of Machine Tool Bldg. and Tool-Making Industry 1965-; mem. Cen. Cttee. of CPSU 1961-76; Deputy to U.S.S.R. Supreme Soviet 1958-. *Address:* Ministry of Machine Tool Building, 20 Gorki Street, Moscow, U.S.S.R.

KOSYGIN, Aleksey Nikolayevich; Soviet politician; b. 20 Feb. 1904, St. Petersburg (now Leningrad); ed. Leningrad Textile Inst. and Leningrad Co-operative Tech. School; worked in Irkutsk Regional Co-operative Union and other co-operative organizations 1924-30; Shop Superintendent Zhelyabov Factory, Leningrad 1935-37; Dir. October Textile Mills, Leningrad 1937-38; Man. Industrial and Transport Dept., CPSU Leningrad Regional Cttee. 1938; Chair. Leningrad City Soviet of Workers' Deputies 1938-39; People's Commissar of Textile Industry 1939-40; Vice-Chair. Council of People's Commissars 1940-46; Chair. Council People's Commissars R.S.F.S.R. 1943-46; Minister of Finance 1948, of Light Industry 1949-53, of Light and Food Industry 1953, of Consumer Goods Production 1953-54; [illegible] CPSU 1927-; candidate-mem. Politburo 1946-48, mem. Politburo 1948-52, mem. Cen. Cttee. 1939-; Deputy Supreme Soviet 1946-; cand. mem. of Presidium of Cen. Cttee. of CP 1952-53, 1957-60, mem. 1960-66, mem. Politburo 1966-; Vice-Chair. 1960-64, Chair. 1964-; First Vice-Chair. State Planning Comm. 1956-57, Chair. 1959-60; Order of Lenin (six times), Order of Red Banner, Hero of Socialist Labour 1964, 1974, Order of the October Revolution 1978, Order of Karl Marx (G.D.R.), Sixty Years of Armed Forces of U.S.S.R. Medal and numerous other medals. *Address:* Council of Ministers, The Kremlin, Moscow, U.S.S.R.

KOSYGIN, Yuriy Aleksandrovich; Soviet geologist; b. 22 Jan. 1911, St. Petersburg (now Leningrad); s. of Aleksandr Ivanovich Kosygin and Zoya Aleksandrovna Kosygina; m. Mariya Iosiphovna Kosygina 1945; three s.; ed. Moscow Oil Inst.; Sr. Scientific Assoc., Geological Inst., U.S.S.R. Acad. of Sciences 1945-58, Inst. of Geology and Geophysics, Siberian Br. 1958-70, Inst. of Tectonics and Geophysics, Soviet Far East Science Centre, Khabarovsk 1971-; corresp. mem. U.S.S.R. Acad. of Sciences 1958-70, Academician 1970-; Order of Lenin and other decorations. *Publications:* Oil deposits in Turkmenia 1933, Tectonics of Oil-Producing Regions 1958, Tectonics 1969. *Leisure interest:* travelling. *Address:* c/o Institute of Tectonics and Geophysics, 22 Seryshev Street, 680028 Khabarovsk, U.S.S.R. *Telephone:* 33-06-35.

KOTAITE, Assad, LL.D.; Lebanese lawyer and international aviation official; b. 6 Nov. 1924, Hasbaya; s. of Adib Kotaite and Kamle Abousamra; unmarried; ed. French Univ., Beirut, Univ. of Paris and Acad. of Int. Law, The Hague; Head of Legal and Int. Affairs, Directorate of Civil Aviation, Lebanon 1953-56; Rep. of Lebanon, Council of ICAO 1956-70; Sec.-Gen. ICAO, 1970-76, Pres. Council 1976-. *Address:* c/o International Civil Aviation Organisation, 1000 Sherbrooke Street West, Montreal, Quebec (Office); 1455 Sherbrooke Street West, Apartment 2207, Montreal, Canada. (Home). *Telephone:* 285-8011. (Office).

KOTARBIŃSKI, Tadeusz Marian, DR. PHIL.; Polish university professor; b. 31 March 1886, Warsaw; s. of Miłosz and Ewa Koskowska Kotarbiński; m. 1st Wanda Baum 1912 (died 1946), 2nd Janina Kaminska 1947; two s.; ed. Univ. of Lwów; Lecturer in Philosophy, Univ. of Warsaw 1918, Extraordinary Prof. 1919-29, Ordinary Prof. 1929-60, Prof. Emer. 1960-, Dean of Faculty of Letters 1929; Rector Univ. of Łódź 1945-49; Pres. Polish Acad. of Sciences 1957-62; Pres. Polish Philosophical Soc.; Pres. Int. Inst. Philosophy 1960-63; mem. of Moscow, Sofia and Ulan Bator Acads. of Science, British Acad., Acad. Serbe, Soc. Scientiarum Fennica; Dr. Phil. h.c., Univs. of Brussels, Łódź, Cracow, Oxford, Bratislava and Florence; Dr. h.c. Med. Acad. Łódź; State Prize 1st Class 1972, Commdr. Légion d'honneur, Order of Builders of People's Poland, Order of Banner of Labour 1st Class, Grand Class, Order Polonia Restituta and other decorations. *Publications:* Szkice praktyczne (Practical Sketches) 1913, Elementy teorii poznania, logiki formalnej i metodologii nauk (Elements of the Theory of Cognition, Formal Logic and Methodology of Science) 1929, 1961, Traktat o dobrej robocie (Tractate on Efficiency) 1955, 1958, 1965, 1969, 1973, 1975; Wykłady z dziejów logiki (Lectures on the History of Logic) 1957, Wybór pism (Selected Works) Vol. I 1957, Vol. II 1958, Kurs logiki (Manual of Logic) 1951, 1953, 1955, 1960, 1961, 1963, 1974, 1975, Sprawność i Błąd (Efficiency and Error) 1956, 1957, 1960, 1966, 1970, Leçons sur l'histoire de la logique 1964, Praxiology 1965, Gnosiology 1966. Medytacie o zyciu godziwym (On the Right Way of Living) 1966, Hasło dobrej roboty (A Call to Good Work) 1968, Studia z zakresu filozofii (Philosophical papers) 1970, Abecadło praktycznosci (Alphabet of Practicability) 1972. *Leisure interest:* poetry. *Address:* Ul. Karowa 14/16 m. 18, 00-324 Warsaw, Poland. *Telephone:* 26-57-33.

KOTCHIAN, A. Carl, A.B., M.B.A.; American business consultant (retd.); b. 17 July 1914, Kermit, N. Dakota; s. of Adolphus C. and Mamie Bonzer Kotchian; m. Lucy Betty Carr 1940; one s.; ed. Stanford Univ.; Accountant, Price, Waterhouse & Co., Los Angeles 1936-40; Budget Man., Vega Airplane Co., Burbank, Calif., 1941-43; Budget Man., Chief Cost Accountant, Lockheed Aircraft Corpn. 1943-51, successively Dir. Financial Operations, Dir. Admin., Asst. Mfg. Man., Asst. Gen. Man. Georgia Div. 1951-56, Vice-Pres. and Gen. Man. Georgia Div. 1956-59; Group Vice-Pres., Lockheed Aircraft Corpn. 1959-65, Exec. Vice-Pres. 1965-67, Pres. 1967-76, Vice-Chair. of Board and Chief Operating Officer 1975-76. *Address:* 283 Bel Air Road, Los Angeles, Calif. 90024, U.S.A.

KOTELAWELA, Col. the Rt. Hon. Sir John Lionel, K.B.E., C.H., P.C., J.P.; Ceylonese politician; b. 4 April 1897; ed. Christ's Coll., Cambridge, and Royal Coll., Colombo; mem. State Council 1931; helped in foundation of United National Party, Pres. until 1958; Minister for Agric. and Lands 1933, for Communications and Works 1935, for Transport and Works 1947-53; Leader of the House, Parl. of Ceylon 1950-56; Prime Minister and Minister of Defence 1953-56; Privy Councillor 1954; Hon. LL.D. (Ceylon); Grand Cross Legion of Honour and numerous other decorations. *Publication:* An Asian Prime Minister's Story 1956. *Address:* Kandawala, Kotelawalapura, Ratmalana, Sri Lanka; Brogues Wood, Biddenden, Kent, England.

KOTELNIKOV, Vladimir Aleksandrovich; Soviet radio and electronics engineer; b. Sept. 1908, Kazan; ed. Power Engineering Inst., Moscow; Prof. and Dean, Radio Engineering Faculty, Moscow Power Engineering Inst. 1931-47, Head, Chair. of Radio Engineering Principles, Moscow Power Engineering Inst. 1947-; Deputy Dir. Inst. of Radio Engineering and Electronics, U.S.S.R. Acad. of Sciences 1953-54, Dir. 1954-; mem. U.S.S.R. Acad. of Sciences 1953-, Vice-Pres. 1970-, Acting Pres. May-Nov. 1975; Deputy and Chair. Supreme Soviet of R.S.F.S.R.; Fellow, American Inst. of Electrical and Electronics Engineers; Foreign mem. German Democratic Repub. Acad. of Sciences, Polish Acad. of Sciences, Czechoslovak Acad. of Sciences; Editor-in-Chief Radio Engineering and Electronics; State Prize 1943, 1946, Lenin Prize 1964, Hero of Socialist Labour 1969, Order of Lenin (five times), Hammer and Sickle Gold Medal and other decorations. *Address:* c/o Institute of Radio Engineering and Electronics, U.S.S.R. Academy of Sciences, 18 Prospekt Marxa, Moscow, U.S.S.R.

KOTOŃSKI, Włodzimierz; Polish composer; b. 23 Aug. 1925, Warsaw; s. of Stanislaw Kotónski and Marianna Krysiak; m. Jadwiga Chlebowska 1951; one s.; ed. Warsaw State Higher School of Music; interested in folk music, especially of the Podhale region 1950-56; worked with Experimental Music Studio of Polish Radio and Electronic Music Studio of Westdeutscher Rundfunk, Cologne 1966-67; with Groupe de Recherches Musicales ORTF, Paris 1970; Assoc. Prof. of Composition and Head of Electronic Music Studio, State Higher School of Music, Warsaw 1967-; Chief Music Dir. of Polish Radio and TV 1974-76; Music Adviser of Chair. Cttee. for Radio and TV 1977-; DAAD Fellowship in W. Berlin 1970-71; lectures and seminars on composition in U.S.A. 1978; compositions include orchestral and chamber music, some with percussion; also electronic and tape music, and instrumental theatre; Ministry of Culture and Arts Prize 1973. *Publications:* Instrumenty perkusyjne we współczesnej orkiestrze (Percussion Instruments in the Modern Orchestra) 1963. *Address:* ul. Okolska 3 m. 6, 02 509 Warsaw, Poland. *Telephone:* 44-72-32.

KOTSOKOANE, Joseph Riffat Larry; Lesotho politician; b. 19 Oct. 1922; ed. South Africa, Fort Hare Univ. Coll., Univ. of the Witwatersrand; Teacher 1945-50; Agricultural Officer, Dept. of Agriculture, Basutoland, later Principal of Agricultural Training School 1951-64, Principal Agricultural Officer 1964-66; with British Embassy, Bonn 1966-67; High Commr. in the U.K. 1967-69; Perm. Sec., Ministry of Foreign Affairs 1969-70, Ministry of Educ., Health and Social Welfare 1970-72; High Commr. to Kenya, also accred. to Uganda and Tanzania 1972-74; Minister of Foreign Affairs 1974-75, of Educ. 1975-76, of Agric. 1976-78; Perm. Rep. to the UN April 1978-. *Address:* Permanent Mission of Lesotho to the UN, 866 United Nations Plaza, Room 533-535, New York, N.Y. 10017, U.S.A.

KOTSONIS, Archbishop Ieronymos; Greek ecclesiastic; b. Ysternia, Tinos; s. of Ieronymos and Angelica Kotsonis; fmr. Prof. of Canon Law, Univ. of Salonica; Chaplain to Greek Royal Family 1949-67; Archbishop of Athens and Primate of Greece 1967-73. *Publications:* 110 works including (in Greek) Steering the Church 1975, On the Financial Problems of the Church of Greece 1975, The Drama of an Archbishop 1975. *Leisure interests:* fishing, swimming. *Address:* Ysternia, Tinos, Greece. *Telephone:* 0283-31397.

KOTT, Jan., PH.D.; American (naturalized 1978) literary critic; b. 27 Oct. 1914, Warsaw; s. of Maurycy Kott and Kazimiera Wertenstein; m. Lidia Steinhaus 1939; one s. one d.; Prof. of History of Polish Literature, Univ. of Warsaw; Visiting Prof. at Univ. of Calif. 1967-68, at Yale 1978-79; Prof. of Comparative Drama, State Univ. N.Y. at Stony Brook 1969-74, of English and Comparative Literature 1974-; Guggenheim Fellow 1972-73; Herder Award, Vienna 1964; Hon. mem. Modern Language Assen. *Publications:* Mitologia i realizm (Mythology and Realism) 1946, Szkoła klasyków (The School of the Classics) 1949, Jak wam się podoba (As You Like It) 1955, Postęp i głupstwo (Progress and Folly) 1956, Szkice o Szekspirze (Essays on Shakespeare) 1961, Shakespeare, notre contemporain (French trans.) 1962, Miarka za miarkę (Measure for Measure) 1962, Shakespeare, Our Contemporary (English trans.) 1964, Szekspir Wspólczesny 1965, Aloes 1966, Theatre Notebook 1947-67 1968, The Eating of the Gods: An Interpretation of Greek Tragedy 1973, Arcadia amara 1978. *Address:* 29 Quaker Path, Stony Brook, N.Y. 11790, U.S.A. *Telephone:* (516) 246-6057 (Office).

KOUANDÉTÉ, Lieut.-Col. Maurice; Benin army officer and politician; b. 1939; ed. Ecole de Guerre, Paris; Dir. of Cabinet of Head of State 1967-69; Head of State and Head Provisional Govt. Dec. 1967; Chief of Staff of Dahomey (now Benin) Army 1969-70; leader of coup which overthrew Pres. Zinsou Dec. 1969; mem. of Directory (three man body ruling Dahomey), Minister of the Economy, Finance and Co-operation 1969-70; arrested 1970; Deputy Sec. for Defence 1970-72; arrested Feb. 1972, sentenced to death May 1972, granted amnesty and released Dec. 1972.

KOUCKÝ, Vladimir; Czechoslovak politician and diplomatist; b. 13 Dec. 1920, Vladivostok, U.S.S.R.; ed. Secondary School, Jaroměř; mem. CP of Czechoslovakia 1938-; with underground Party orgs. 1939-45; mem. illegal Cen. Cttee., CP of Czechoslovakia 1944; mem. Cen. Cttee., CP of Czechoslovakia 1945-48, 1953-; Deputy Editor-in-Chief Rudé právo 1945-53, Editor-in-Chief 1955-58; Sec. Cen. Cttee., CP of Czechoslovakia 1958-68; Chair. Ideological Comm. of Cen. Cttee. 1963-65, Legal Comm. of Cen. Cttee. 1964-68; mem. Ideological Comm. of Cen. Cttee. 1963-68; Amb. to U.S.S.R. 1968-70; Amb. to Belgium and Luxembourg 1970-78, to Italy, Malta and San Marino 1978-; Deputy, Nat. Assembly 1945-69; mem. Presidium, Nat. Assembly 1960-68; Deputy, House of the People (Fed. Assembly) 1969-71; Order of Labour 1957, Czechoslovak Peace Prize 1966, Order of February 25 (1st Class) and other decorations. *Address:* Embassy of the Czechoslovak Socialist Republic, Via Colli Della Farnesina 144, Rome, Italy.

KOULIS, Ioannis, D.SC.(ECON.); Greek economist; b. Nov. 1910, Langadia, Gortynia; ed. Univs. of Athens and Munich; Asst. Prof. of Public Finance, School of Law, Univ. of Athens 1948, Assoc. Prof. of Public Finance and Fiscal Legislation 1955, Prof. 1959-; Dean, School of Law, Univ. of Athens; mem. Board of Dirs. Greek Soc. of Econ. Studies, Nat. Bank of Greece, Centre for Programming and Econ. Devt.; mem. Econ. Council, Univ. of Athens, Rep. Assembly of Public Power Corpn. of Greece, Supreme Advisory Council for Econ. Devt.; Chair. Scientific Council of Statistics, Public Finance Programming Cttee. of Ministry of Co-ordination; mem. many other public scientific councils; Minister of Finance 1971-73. *Publications:* numerous works, studies and articles on various financial questions in Greek and French. *Address:* c/o Ministry of Finance, Athens, Greece.

KOUN, Karolos; Greek theatre producer, director and actor; b. 13 Sept. 1908, Prousa, Asia Minor; ed. Robert Coll., Constantinople; Prof. of English Literature, Athens Coll. 1929; Founder Laiki Skini (popular stage) 1934-36; Theatre Dir. Athens 1939-41, Greek Nat. Theatre 1950-53; Founder Theatron Technis (Art Theatre) 1942, Dir. and Producer 1942-; World Theatre Season, London; Produced Aristophanes' Birds 1964-65, Aeschylus' Persae 1965 and Aristophanes' Frogs 1967; Dir. Romeo and Juliet, Stratford-upon-Avon 1967; World Theatre Season, London, Oedipus Rex, Lysistrata 1969. *Address:* Greek Art Theatre, 44 Stadiou Street, Athens, Greece. *Telephone:* 32.28.706; 32.22.760.

KOUNTCHÉ, Lt.-Col. Seyni; Niger army officer; b. 1931, Fandou; ed. French Army School, Kati, Mali, Army School St. Louis, Senegal; joined French Colonial Army 1949, rank of Sergeant 1957, Fréjus Training School, France 1957-59, promoted to N.C.O. 1959; with Niger Army 1961-; Officers' Training School, Paris 1965-66; Deputy Chief of Staff Armed Forces 1966-73, Chief of Staff 1973-74, rank of Lieut.-Col.; ousted Pres. Diori in coup April 1974; Head of State and Pres. Supreme Mil. Council April 1974-, also Minister of Devt. 1974-76, of the Interior 1974-76, of Nat. Defence 1974-76, 1977-, Pres. Council of Ministers 1977-. *Address:* c/o Supreme Military Council, Niamey, Niger.

KOURGANOFF, Vladimir, D.SC.; French astronomer; b. 1912, Moscow, Russia; m. Ruth Moj 1935; one s. one d.; ed. Lycée Saint-Louis, Sorbonne, Astrophysical Insts. of Paris and Oslo; Scholar, Centre Nat. de la Recherche Scientifique 1938-42, Research Fellow 1942-52; Exchange Prof. Oslo Univ. 1946-48; Dir. Astronomical Laboratory, Lille Univ. 1952-61; Visiting Prof. Berkeley Univ. 1958; Prof. Univ. of Paris XI (Orsay) 1961-77. *Publications:* La part de la mécanique céleste dans la découverte de Pluton, L'ion H^- dans le soleil, Basic Methods in Transfer Problems, La recherche scientifique (with J. C Kourganoff), Astronomie fondamentale elémentaire, Initiation à la théorie de la relativité, Introduction à la théorie générale du transfert des particules, Exercices d'initiation rapide au Russe scientifique (with Ruth Kourganoff), Introduction à la physique des intérieurs stellaires, La face cachée de l'université, Introduction to Advanced Astrophysics. *Leisure interests:* piano, philosophy of research and university education. *Address:* 20 avenue Paul Appell, 75014 Paris, France. *Telephone:* 540-50-53 (Paris).

KOUROS, Andreas Kyriakou, M.A., PH.D.; Cypriot educationist; b. 6 Nov. 1918, Vasilia; s. of Kyriacos Kouros and Eleni Sava; m. Sonia Koskarian 1946; two d.; ed. London and Oxford Univs., Int. Inst. of Educ. Planning, Paris; Teacher 1944-53; Inspector of Schools, Ministry of Educ. 1953-59, Senior Inspector 1959-61; Head Dept. of Primary Educ. 1961-68; Head of Educ. Planning 1968-70; Dir. of Educ. 1970-72, Minister 1972-74; Educ. Specialist, Int. Bank for Reconstruction and Devt. 1975-. *Publications:* The Construction and Validation of a Group Test of Intelligence for Greek Cypriot Children 1956, Education in Cyprus under the British Administration 1959, Electra 1968. *Leisure interests:* swimming, walking. *Address:* The Kenwood, 5101 River Road, Apartment 517, Chevy Chase, Md., U.S.A. *Telephone:* (301) 652-2894.

KOUTSOHERAS, Ioannis (*see* Coutsoheras, John).

KOUYOUMZELIS, Theodore, M.CHEM., D.SC.; Greek physicist; b. 1 Dec. 1906, Kydoniai, Ayvalik; s. of George Kouyoumzelis and Polyxeni Petridou; m. Stella Grigoriou 1940; one d.; ed. Univs. of Athens, Munich, Manchester and Heidelberg; Asst. Prof. Physics, Athens Univ. 1937-49, Prof. Extraordinary 1949-58; Prof. Physics, Athens Nat. Tech. Univ. 1958-72, Emer. 1972, Dean Faculty of Chemical Eng. 1961-69; Prof. Royal Naval Acad., Piraeus 1947-77; Sec.-Gen. Greek Atomic Energy Comm. 1954-60, Vice-Pres. 1972-74; Perm. Rep. of Greece to CERN 1955-, Vice-Pres. 1973-75;

Commdr. Orders of Phoenix and of George I. *Publications:* Alternating Currents 1948, 1958, Nuclear Physics 1947, Theoretical Electricity 1948, 1957, 1969, Wave Theory 1948, 1963, 1969, Elements of Nuclear Physics 1960, Elements of Physics (4 vols. with S. Peristerakis) 1960-73; articles in learned journals on research into Raman effect and structure of ions, glass and water molecular vibrations, gamma rays and their inter-action with matter, counting and electronic devices, fallout measurement. *Leisure interests:* hi-fi, classical music. *Address:* Nuclear Research Centre Democritos, Aghia Paraskevi, Athens (Office); 23 Pindou St., Filothei, Athens, Greece (Home). *Telephone:* 65-13-111 (Office); 6814-993 (Home).

KOVÁCS, Dénes; Hungarian violinist; b. 18 April 1930, Vác; s. of József Kovács and Margit Juhász; m. Adrienne Izsóf 1955; one s. one d.; ed. Budapest Acad. of Music under Ede Zathureczky; First Violinist, Budapest State Opera 1951-60; leading Violin Prof. at Budapest Music Acad. 1957-, Dir. of Budapest Music Acad. 1967-; Rector Ferenc Liszt Acad. of Music 1971-; concert tours all over Europe, in U.S.A., U.S.S.R., Iran, India, China and Japan; Kossuth Prize 1963, awarded Eminent Artist title 1970. *Address:* Music Academy, 1061 Budapest VI, Liszt Ferenc tér 8 (Office); 1023 Budapest II, Frankel Leó utca 21-23, Hungary (Home). *Telephone:* 224 448 (Office).

KOVANOV, Vladimir Vasiliyevich; Soviet surgeon; b. 13 March 1909, St. Petersburg (now Leningrad); m. 1928; two s. one d.; ed. Moscow Univ.; Postgraduate, Asst., First Moscow Medical Inst. 1931-41; mem. CPSU 1939-; Soviet Army Medical Officer 1941-45; Instructor, Head of Section, Deputy Head of Dept., CPSU Cen. Cttee. 1945-50; Head of Dept., First Moscow Medical Inst. 1946-; Pro-rector, First Moscow Medical Inst. 1950-56, Rector 1956-66; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1960-63, mem. 1963-; Vice-Pres., U.S.S.R. Acad. of Medical Sciences 1966-; mem. Presidium Soviet Peace Cttee.; Order of Lenin (twice), Red Banner (twice), Red Star 1942, Patriotic War, First Class 1944, Patriotic War, Second Class 1944, Honoured Scientist of R.S.F.S.R. 1965, Spasokukotsky Prize, Shevkunenko Prize. *Publications:* over 150 works, including 10 monographs, on treatment of thoracic cage wounds, traumatic shock, surgical anatomy of extremities, cardiac surgery, and transplantation of organs. *Leisure interests:* journalism, writing. *Address:* c/o U.S.S.R. Academy of Medical Sciences, 14 Ulitsa Solyanka, Moscow, U.S.S.R.

KOWALCZYK, Edward, D.ING.; Polish politician and engineer; b. 25 May 1924, Warsaw; m. Maria Krystyna Toniakiewicz; two s.; ed. Technical Univ. of Warsaw, and Warsaw Univ.; took part in Resistance in Warsaw during Second World War and imprisoned in Germany; mem. Democratic Party 1967-, mem. Pres. Cen. Cttee. 1973-; Deputy to Seym 1969-72; Minister of Posts and Telecommunications 1969-; Chair. Polish Cybernetic Assn. 1970-; fmr. mem. Council of Science and Technics; Vice-Chair. Scientific Society of Płock; fmr. Head of Płock Branch of Warsaw Techn. Univ.; Extraordinary Prof., Inst. of Telecommunications, Warsaw; mem. Union of Fighters for Freedom and Democracy (ZBoWiD); awards include Cross of Gold for Merit, Chevalier's and Commdr.'s Crosses of Polonia Restituta. *Publications:* several books on electronics and telecommunications. *Leisure interests:* scientific and political activities. *Address:* c/o Ministerstwo Łączności, Pl. Małachowskiego 2, 00-066 Warsaw, Poland. *Telephone:* 264210.

KOWALCZYK, Stanisław; Polish politician; b. 12 Dec. 1924, Pabianice; ed. Acad. of Mining and Metallurgy, Cracow; mem. Polish Socialist Party 1947-48, Polish United Workers' Party (PZPR) 1948-, successively Head of Econ. Dept. of Voivodship Cttee., Katowice, Sec. Voivodship Cttee., Katowice, Head of Dept. of Heavy Industry and Transport, Cen. Cttee. PZPR 1968-71, Deputy mem. Cen. Cttee. PZPR 1964-68, mem. Cen. Cttee. 1968-, Sec. Cen. Cttee. 1971-73, Deputy mem., Political Bureau of Cen. Cttee. 1973-75, mem. Political Bureau Dec. 1975-; Deputy to Seym (Parl.) 1969-; Chair. Seym Comm. for Econ. Planning, Budget and Finance 1972-73; Minister of Internal Affairs March 1973-; Brig.-Gen. 1974-77, Divisional Gen. 1977-; Order of Banner of Labour (1st and 2nd Class), Knight's Cross, Officer's Cross Order of Polonia Restituta, Order of Builders of People's Poland 1974, Medal of 30th Anniversary of People's Poland 1974, and other decorations. *Address:* c/o Ministerstwo Spraw Wewnętrznych PRL, ul. Rakowiecka 2, 02-517 Warsaw, Poland.

KOWALIK, Adam, M.JUR.; Polish politician; b. 15 Dec. 1933, Płaza, Chrzanów district; studied law; active in youth orgs.; mem. Polish United Workers' Party (PZPR) 1952-, Instructor, Wloszczowa District Cttee. 1952-53; Head of Dept. in Nat. Electronics Industry Council 1954-60; Instructor and Deputy Chair. Organizational Dept. of Warsaw Cttee. of PZPR 1960-61, Sec. of Warsaw-Mokotów Area Cttee. 1961-63; Dir. of factories making ceramic radio parts 1963-65; Deputy Chair. Org. Dept. of Warsaw Cttee of PZPR 1965-68, Chair. Party Propaganda Centre 1968-69, Sec. of Warsaw-Mokotów Area Cttee. 1969-71, Sec. Warsaw Cttee. 1971-75; First Sec. of Tarnobrzeg Voivodship Cttee. of PZPR 1975-76; alt. mem. Cen. Cttee. of PZPR Dec. 1975-; Chair. Tarnobrzeg Nat. Council 1975-76; Deputy to Seym 1976-; Minister of Internal Trade and Services Dec. 1976-; Officer's Cross, Order of Polonia Restituta, and other decorations. *Address:* c/o Ministerstwo Handlu Wewnętrznego i Usług, Plac Powstańców, 00-030 Warsaw 1, Poland.

KOWARSKI, Lew, D.ÈS SC.; French atomic physicist; b. 10 Feb. 1907, St. Petersburg (now Leningrad), U.S.S.R.; s. of N. Kowarski and Olga Vlassenko; m. 1st Dora Heller 1929, one d.; m. 2nd Kathe A. Freundlich 1948; ed. Ecole de Chimie Industrielle de Lyon and Univ. of Paris; came from Russia to Belgium and then to France; technical sec. (part-time) at Aciéries et Usines à Tubes de la Sarre 1929-37; did biochemical research in hospital laboratory; personal sec. to Joliot-Curie 1936; worked on neutron emission in uranium fission with Joliot-Curie and Halban; with Halban brought French stocks of heavy water experimental records to England 1940; in charge of construction of first Canadian atomic pile 1944; returned to France after Liberation and worked for Commissariat for Atomic Energy, of which he became Scientific Dir.; adviser to French del. to UN Atomic Energy Comm. 1946-48; in charge of construction of first (1947-48) and second (1949-52) French atomic piles; Lecturer on Nuclear Physics, Conservatoire des Arts et Métiers 1951-53; Dir. Laboratory Group 1952-54, Scientific and Technical Services Div. 1954-60, Data Handling Div. 1961-64, Senior Physicist 1965-72, Consultant 1972-, European Org. for Nuclear Research (CERN); Scientific adviser to European Nuclear Energy Agency, OEEC 1956-61, OECD 1961-71; Visiting Prof., Purdue Univ., Lafayette, Indiana 1963-65; Prof. Univ. of Texas 1968-71; Visiting Prof. Boston Univ. 1972, Prof. 1972-; Officier de la Légion d'honneur; Fellow American Nuclear Soc.; special award by U.S. Atomic Energy Comm. 1968. *Leisure interests:* reading, music, friendships. (Died July 1979)

KOYAMA, Goro; Japanese banker; b. 25 March 1909, Gunma Prefecture; s. of Toichi Oshima and Han Oshima; m. Atsu Koyama 1934; two s. one d.; ed. Tokyo Univ.; Man. Dir. The Mitsui Bank Ltd. 1963-65, Deputy Pres. 1965-68, Pres. 1968-72, Chair. 1974-. *Leisure interests:* painting, golf. *Address:* The Mitsui Bank Ltd., 1-2 Yurakucho 1-chome, Chiyoda-ku, Tokyo (Office); 3-15-10 Takaido-Higashi, Suginamiku, Tokyo, Japan (Home). *Telephone:* 501-1111(Office); 333-0843 (Home).

KOŽEŠNÍK, Jaroslav, DR. ING.; Czechoslovak scientist; b. 8 June 1907, Kněžice; s. of Antoňin and Katerina Kožešník; m. Anna Jaroslav Kožešník 1934; fmr. Dir. Combined Research Inst. of the Škoda Works; head of research and development work in heavy engineering industry; Prof. of Czech Tech. Univ., Prague; Corresp. MEM. Czechoslovak Acad. of Science 1953; Prof. of the Coll. of Technology Prague 1955-; rep. of the Czechoslovak Govt. to Joint Inst. for Nuclear Research, Dubna, U.S.S.R. 1956-; external dir., Inst. of the Theory of Information and Automation of the Czechoslovak Acad. of Sciences 1959-, Academician 1960-, Vice-Pres. 1961-70 (acting Vice-Pres. 1969-70); Chair. of the Czechoslovak Comm. for Co-operation in Research and Peaceful Use of Outer Space (Interkosmos) attached to the Czechoslovak Acad. of Sciences 1966-; Deputy, House of the People of the Fed. Assembly 1969-; Pres., Czechoslovak Acad. of Sciences 1970-; mem., Cen. Cttee. of the CP of Czechoslovakia 1970-, MEM. of the Govt. Cttee. for External, Cultural, Educational, Scientific and Health Relations 1971-; mem. several foreign acads. of sciences; Klement Gottwald State Prize 1959, 1967, Order of Labour 1962, Golden Honorary Plaque of the Czechoslovak Acad. of Sciences "For Merits in Science and for Mankind" 1967, Hero of Socialist Labour 1972, Order of Victorious February 1973. *Publications:* Physical Similarity, Mechanics of Models, Dynamics of Machines, Mechanics of Electrical Rotating Machines, Theory of Configurations, Random Vibrations, Mechanical Vibrations. *Leisure interest:* tourism. *Address:* Na'mesti Joseph Machka 6, Prague, Czechoslovakia. *Telephone:* 245317 (Office); 523213 (Home).

KOZHEVNIKOV, Fyodor Ivanovich; Soviet jurist; b. 15 June 1903, Smolensk; ed. Moscow Univ.; fmr. Prof. of Int. Law and Dean of the Law Faculty, Moscow Univ.; fmr. Pres. Legal Section U.S.S.R. Soc. for Cultural Relations and mem. Legal Science Experts Cttee., Ministry of Culture; mem. CP 1929-; mem. Int. Law Comm. of UN 1952-53; Judge, Int. Court of Justice 1953-61; mem. Editorial Board, The Soviet State and the Law (Soviet Acad. of Sciences Inst. of Law); mem. Perm. Court of Arbitration, the Hague 1966-. *Publications:* Russian State and International Law 1947, Soviet State and International Law 1948, Great Patriotic War of the Soviet

Union and Some Problems of International Law 1954, The International Court of Justice 1971. *Address:* c/o Institute of Law, U.S.S.R. Academy of Sciences, 10 Ulitsa Frunze, Moscow, U.S.S.R.

KOZLOV, Nikolay Timofeyevich; Soviet politician; b. 1925; ed. Moscow Timiryazev Acad. of Agriculture; mem. CPSU 1946; Soviet Army service 1943-47; Official, Moscow Regional Cttee. of CPSU 1952-58, 1959-60; Head of Statistics Dept., Moscow Region 1958-59; First Vice-Chair. Moscow Regional Soviet of Working People's Deputies 1960; Sec. Moscow Regional Cttee., CPSU 1960-63; Chair. Moscow Regional Soviet of Working People's Deputies 1963-; Cand. mem. CPSU Cen. Cttee. 1966-71; mem. 1971-; Deputy to U.S.S.R. Supreme Soviet 1966-; Sec. Comm. for Legislative Proposals, Soviet of Union; mem. Cttee., U.S.S.R. Parl. Group. *Address:* Moscow Regional Soviet of Working People's Deputies, 13 Ulitsa Gorkogo, Moscow, U.S.S.R.

KOZLOVSKY, Yevgeniy Aleksandrovich; Soviet engineer and politician; b. 1929; mem. CPSU 1955; graduated from Moscow Geology Inst. 1953; worked in Amur Oblast and Khabarovsk Territory as chief engineer and head of expedition 1953-65. Head of admin. of USSR Ministry of Geology 1965-73, Director of scientific research institution 1973-74, USSR Deputy Minister of Geology 1974-75, Minister of Geology Dec. 1975-; Cand. mem. of the CC, CPSU 1976-; Lenin Prize and other decorations. *Address:* USSR Ministry of Geology, Moscow, USSR.

KOŻNIEWSKA, Halina, M.D.; Polish surgeon and politician; b. 28 May 1920, Jańczyn, near Kutno; ed. Warsaw Univ.; Doctor 1949-55, Docent 1955-68, Extraordinary Prof. 1968-74, Ordinary Prof. 1974-; Head of Neurosurgery Dept., Clinic of Nervous Diseases 1957-64; Dir. Neurosurgery Clinic, Medical Acad. of Lublin 1964-, Deputy Dean of Medical Faculty 1966-69; Deputy to Seym (Parl.) 1969-; mem. Council of State March 1972-; Sec. Polish Neurosurgical Soc. until 1970, mem. Cen. Board and Chair. Science Comm. 1970-; mem. Scandinavian and Yugoslav Neurosurgical Socs. *Address:* Kancelaria Rady Państwa, ul. Wiejska 4/6/8, 00-489 Warsaw (Office) ul. Lipowa 17 m. 45, Lublin, Poland (Home).

KRACKOW, Jürgen, DR.; German business executive; b. 30 May 1923; Apprentice, Commerz-Bank; Asst. Trinkhaus-Bank; Boswall and Knauer (construction co.); Man. Sidol-Werke Siegel 1957; joined management of Berliner Handelsgesellschaft (BHG) 1962, Berliner Maschinenbau AG 1963; mem. Man. Board, Holding AG für Industrie und Verkehrswesen 1967; mem. Man. Board AG "Weser" (member of Krupp group) 1969, subsequently Chair.; Chair. Man. Board Fried. Krupp GmbH Oct.-Dec. 1972, Man. Dir. May 1972; Chair. Man. Board Stahlwerke Röchling-Burbach Jan. 1975-; mem. Supervisory Board, Berliner Maschinenbau AG; Chair. Council EEC Builders of Large Ships. *Address:* Stahlwerke Röchling-Burbach GmbH, 662 Völklingen-Saar, Federal Republic of Germany.

KRAFT, Christopher Columbus, Jr.; American space administrator; b. 28 Feb. 1924, Phoebus, Va.; m. Elizabeth Anne Turnbull; one s. one d.; ed. Virginia Polytechnic Inst.; mem., Langley Aeronautical Lab., Nat. Advisory Cttee. for Aeronautics 1945; selected to join Space Task Group on Project Mercury 1958; Flight Dir. all Mercury Missions: Dir. of Flight Operations, Manned Spacecraft Center 1963-69; Deputy Dir. Johnson Space Center 1970-72; Dir. NASA Johnson Space Center 1972-; Fellow, American Inst. of Aeronautics and Astronautics 1966; Fellow, American Astronautical Soc; Hon. D.Eng. (Indiana Inst. of Technology) 1966, (St. Louis Univ., Ill.) 1967; Arthur S. Fleming Award 1963, NASA Outstanding Leadership Award 1963, Spirit of St. Louis Medal, American Soc. of Mechanical Engineers 1967, NASA Distinguished Service Medal (twice) 1969, Chevalier, Légion d'honneur 1976, Nat. Civil Service League Career Service Award 1976, W. Randolph Lovelace Award (American Astronautical Soc.) 1977, Daniel and Florence Guggenheim Award (Int. Astronautics Fed.) 1978, AAIA von Karman Lectureship Award 1979. *Address:* c/o National Aeronautics and Space Administration, Johnson Space Center, Houston, Tex. 77058, U.S.A.

KRAFT, Robert Paul, PH.D.; American professor of astronomy and astrophysics; b. 16 June 1927, Seattle, Wash.; s. of Victor P. Kraft and Viola E. Ellis; m. Rosalie A. Reichmuth 1949; two s.; ed. Univ. of Washington and Univ. of Calif. at Berkeley; Instructor in mathematics and astronomy, Whittier Coll. 1949-51; Asst. Prof. of Astronomy, Indiana Univ. 1956-58; Asst. Prof. of Astronomy, Univ. of Chicago 1958-59; mem. staff, Mt. Wilson and Palomar Observatories 1960-67; Astronomer and Prof., Lick Observatory 1967-; Acting Dir. Lick Observatory 1968-70, 1971-73; Visiting Fellow, Joint Inst. of Laboratory Astrophysics, Univ. of Colo. 1970; Pres. American Astronomical Soc. 1974-76; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Nat. Science Foundation Fellow 1953-55; Warner Prize, American Astronomical Soc. 1962. *Publications:* articles in professional journals. *Leisure interests:* music (classical and rock), oenology, duplicate bridge. *Address:* Lick Observatory, University of California, Santa Cruz, Calif. 95064, U.S.A. *Telephone:* 408 429-2843.

KRAIGHER, Sergej; Yugoslav (Slovene) politician; b. 30 May 1914, Postojna, Slovenia; s. of Anton Kraigher and Marija Jaške; m. Lidija Šentjurc 1939; two d.; ed. Zagreb Univ.; mem. CP Cttee., Ljubljana Univ.; imprisoned 1934-36; Sec. Regional Cttee. CP of Slovenia, Ljubljana, Instructor of Cen. Cttee. Trbovlije, active in war 1941-45 Sec. of provincial cttee. and Liberation Front for Styria; various regional posts after war; Pres. Planning Comm. of Slovenia 1946; Vice-Pres. of Govt. of Slovenia 1951; Gov. Nat. Bank 1951; Dir. Fed. Office for Planning 1953; Sec. for Industry 1958; Sec. for Foreign Trade and mem. Fed. Exec. Council 1960; Pres. Comm. for Socio-Econ. Relations and for Econ. System of Fed. Assembly 1963; Pres. Assembly Socialist Repub. of Slovenia 1967; Presidency of S.F.R. of Yugoslavia 1971; Pres. of Presidency of Slovenia 1974; mem. Presidency of Cen. Cttee., League of Communists of Slovenia; national decorations including partisan Memorial Badge. *Address:* Presidency of the Socialist Republic of Slovenia, Ljubljana, Yugoslavia.

KRAIJENHOFF, Jonkheer Gualtherus; Netherlands business executive; b. 1922; ed. Switzerland; Royal Air Force (U.K.) pilot 1943-47; joined N.V. Organon, Oss 1947, Man. Dir. 1957; mem. Board of Management N.V. Kon. Zwanenberg-Organon 1959, Pres. 1963; mem. Board of Management, Kon. Zout-Organon N.V. 1967, Pres. 1969; Vice-Pres. AKZO N.V., Arnhem 1969, Pres. 1971-78; Dir. S.G. Warburg and Co. 1978-; mem. Supervisory Council May 1978-; Pres. Neths. Red Cross 1966; Knight, Netherlands Lion, Order of St. John. *Address:* AKZO N.V., Postbus 186, 6800 LS Arnhem (Office); Zomerland, Louiseweg 15, Nijmegen, Netherlands (Home). *Telephone:* 085-651475 (Office).

KRAIVICHIEN, Thanin, LL.B.; Thai jurist and politician; b. 5 April 1927; m. Karen Andersen; five c.; ed. Suan Kularp School, Thammasat Univ., Univ. of London, Gray's Inn; Senior Judge, Civil Court 1969; Senior Judge, Court of Appeal 1972; Judge, Supreme Court 1972-76, Senior Judge 1976; mem. Nat. Assembly 1973-76; Prime Minister 1976-77 (deposed in coup); Chair. Investment Board of Thailand 1976-77. *Publications:* Democracy, Communist Ideology and Tactics, The Language of the Thai Law, The Use of Anti-Communist Law, Constitutional Monarchy, The Reform of the Legal and Judicial Systems during the Reign of King Chulalongkorn. *Address:* c/o Office of the Prime Minister, Government House, Bangkok, Thailand.

KRAJČÍR, František; Czechoslovak politician; b. 12 June 1913, Vienna, Austria; Minister of Domestic Trade 1948-59; Minister of Foreign Trade 1959-63; Deputy Prime Minister 1963-68; Amb. to German Democratic Repub. 1969-71; mem. Comm. of Cen. Cttee. of CP of Czechoslovakia for Questions of Standard of Living 1963-66; mem. Cen. Cttee. of CP of Czechoslovakia 1946-; Deputy to Nat. Assembly 1946-69; Chair. State Price Cttee. 1963-65; Deputy, House of the People, Fed. Assembly 1969-71; First Deputy Foreign Minister 1971-; Order of Feb. 25, 1949, Order of Labour 1963, Order of Victorious Feb. 1973; several decorations for Resistance heroism in Second World War; Bulgarian, Cambodian and Ethiopian decorations. *Address:* c/o Ministry of Foreign Affairs, Prague, Czechoslovakia.

KRAMER, Paul Jackson, A.B., PH.D., D.SC.; American plant physiologist; b. 8 May 1904, Brookville, Ind.; s. of LeRoy Kramer and Minnie Jackson; m. Edith Sarah Vance 1931; one s. one d.; ed. Miami Univ., Ohio and Ohio State Univ.; Instructor in Botany, Duke Univ. 1931, Prof. 1945, James B. Duke Prof. of Botany 1954-, Emer. 1974; Dir. Sarah P. Duke Gardens 1945-74, Consultant 1974-78; Program Dir. Nat. Science Foundation 1960-61; Visiting Prof. Univ. of Tex., Austin Sept. 1976; Walker-Ames Visiting Prof. Univ. of Wash., Seattle Feb. 1977-; Chair. Section G., American Assen. for the Advancement of Science 1956; Pres. American Soc. of Plant Physiologists 1945, N. Carolina Acad. of Sciences 1962, American Inst. of Biological Sciences, and Botanical Soc. of America 1964; Barnes Life mem. American Soc. of Plant Physiologists; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences and American Philosophical Soc.; Certificate of Merit, Botanic Soc. of America, Outstanding Achievement Award, Soc. of American Foresters. *Publications:* Plant and Soil Water Relationships 1949, 2nd edn. 1969, Physiology of Trees (with T. T. Kozlowski), Physiology of Woody Plants (with T. T. Kozlowski) 1979; about 150 research papers in plant science journals and chapters in several books. *Leisure interests:* gardening, photography, bird-watching. *Address:*

Department of Botany, Duke University, Durham, N.C. (Office); 23 Stoneridge Circle, Durham, N.C. 27705, U.S.A. (Home). *Telephone:* (919) 684-2359 (Office).

KRAMER, Stanley, B.SC.; American film producer, director; b. 29 Sept. 1913, New York; ed. New York Univ.; M.G.M. Research Dept.; film cutter for three years and film editor; film and radio writer; served U.S. Signal Corps; formed own film production co. to produce This Side of Innocence; founder and Pres. Kramer Pictures. *Films include:* (assoc. producer) So Ends Our Night 1941, The Moon and Sixpence 1942; (producer) So This is New York 1948, Home of the Brave 1949, The Men 1950, Cyrano de Bergerac 1950, Death of a Salesman 1951, High Noon 1952, The Happy Time 1952, Eight Iron Men 1952, The Caine Mutiny; (producer-dir.) Not As a Stranger 1955, The Pride and the Passion 1957, The Defiant Ones 1958, On The Beach 1959, Inherit the Wind 1960, Judgment at Nuremberg 1961, It's a Mad, Mad, Mad, Mad World 1963, Ship of Fools 1965, Guess Who's Coming to Dinner 1967, The Secret of Santa Vittoria 1969, R.P.M. 1971, Bless the Beasts and Children 1971, Oklahoma Crude 1973, The Domino Principle 1977. *Address:* Studio Center, 4024 Radford Avenue, Studio City, Calif. 91604, U.S.A. (Office).

KRÄMER, Werner, DR.PHIL.; German archaeologist; b. 8 March 1917, Wiesbaden; ed. Univs. of Munich, Frankfurt, Kiel, Marburg; Curator and Departmental Dir. Bavarian State Office for Preservation of Monuments 1947-56; First Dir. and Prof. Roman-German Comm. of German Archaeological Inst. Frankfurt 1956-72; Pres. German Archaeological Inst. 1972-. *Address:* Podbielskiallee 69-71, 1000 Berlin 33, Federal Republic of Germany. *Telephone:* 83-20-41.

KRANIDIOTIS, Nicos; Cypriot scholar, journalist and diplomatist; b. 25 Nov. 1911, Kyrenia; s. of John N. Kranidiotis and Polyxeni J. Kranidiotis; m. Chryssoula Vizakas 1946; one s. one d.; ed. Pan Cyprian Gymnasium, Cyprus, Athens Univ. and Harvard Univ. Center for Int. Affairs; worked as schoolmaster in Cyprus; Dir. of Hellenic Cyprus (official political organ of Cyprus Ethnarchy) 1949; Gen. Sec. Cyprus Ethnarchy 1953-57, Councillor 1957-60; Amb. to Greece 1960-, concurrently Amb. to Yugoslavia 1963-, to Italy 1964-, to Bulgaria 1970-, to Romania 1970-; Sec. of 2nd and 3rd Cyprus Nat. Assemblies 1954, 1955; Founder, Dir. (with others) of Kypriaka Grammata (Cyprus Literature), a literary magazine 1934-, Editor 1946-56. *Publications:* Chronicles (short stories) 1945, The Neohellenic Theatre (Essay) 1950, Studies (poems) 1951, Forms of Myth (short stories) 1954, The Poet G. Seferis (essay) 1955, The National Character of Cyprus Literature 1958, Cyprus in her Struggle for Freedom (history) 1958, Introduction to the Poetry of G. Seferis (essay) 1965, Cyprus-Greece (essay) 1966, Cypriot Poetry (essay) 1969, Kypriaka Grammata (essay) 1970, Epistrophi (poems) 1974, Poesie (poems) 1974, The Cyprus Problem (history) 1975. *Leisure interests:* reading, writing. *Address:* Embassy of Cyprus, 16 Herodotos Street, Athens, Greece; 16 Prometheus Street, Nicosia, Cyprus (Home). *Telephone:* 6715780 (Athens); 2907 (Nicosia).

KRAPF, Franz; German diplomatist; b. 22 July 1911, Munich; m. Helga Gerdts; one s. two d.; Diplomatic Service 1938-; formerly Legation Cairo, Embassy Moscow, Tokyo and Paris; later Minister German Del. to NATO, Paris and Embassy in Washington; Head, Eastern Dept., Ministry of Foreign Affairs 1961-63; Ministerial Dir. and Head of Political Dept. for East-West Affairs 1963-66; Amb. to Japan 1966-71; Perm. Rep. to N. Atlantic Council 1971-76. *Address:* c/o Ministry of Foreign Affairs, Bonn, Federal Republic of Germany

KRAPIVA (*pseudonym* of Kondrat Kondratyevich Atrakhovich, D.SC.); Soviet writer; b. 5 March 1896, Nizok, Minsk Region, Byelorussia; ed. Byelorussian Univ.; fought in 1st World War, Civil War and 2nd World War; People's Writer of Byelorussia 1956; mem. CPSU 1941-; Academician Byelorussian S.S.R. Acad. of Sciences 1950-, Vice-Pres. 1956-; State prizewinner 1941, 1950, 1971, 1974; deputy R.S.F.S.R.; awarded Order of Lenin (three times), Order of Red Banner of Labour, Red Star, October Revolution. *Publications:* fables and sketches; Nettle 1925, Fables 1927; plays: Who Laughs Last 1939, The Larks Sing 1951, Men and Devils 1958, Gate of Immortality 1973; satirical poem The Bible 1926; Collected Works (4 vols.) 1963, Forty Fables 1966, etc. *Address:* c/o Byelorussian S.S.R. Academy of Sciences, 66 Leninsky Prospekt, Minsk, Byelorussia, U.S.S.R.

KRASOVSKAYA, Vera Mikhailovna; Soviet ballet historian and critic; b. 11 Sept. 1915; d. of Mikhail Krasovskiy and Maria Krasovskaya; m. David Zolotnitskiy 1949; one s.; ed. Choreographical School, Leningrad and Inst. of Theatre, Music and Cinematography, Leningrad. Ballet Dancer, Kirov Ballet 1933-41; Senior Scientific Worker Inst. of Theatre, Music and Cinematography 1953-, Prof. 1975; mem. Union of Soviet Writers 1966; Dr. of Arts 1965. *Publications:* Vachtang Chabukiani 1956, 1960, Russian Ballet Theatre from the Beginning to the middle of the XIX Century 1958, Leningrad's Ballet 1961, Russian Ballet Theatre of the Second Half of the XIX Century 1963, Anna Pavlova 1964, 1965, Russian Ballet Theatre at the beginning of the XX Century, vol. I Choreographers 1971, vol. II Dancers 1972, Nijinsky 1974. *Leisure interest:* reading. *Address:* c/o Institute of Theatre, Music and Cinematography, Leningrad; Leningrad 191011, Sadovaya 14, ap. 14, U.S.S.R. (Home). *Telephone:* 14-90-95 (Home).

KRASOVSKIY, Nikolay Nikolayevich, DR. PHYS. AND MATH. SC.; Soviet mathematician and mechanician; b. 7 Sept. 1924, Sverdlovsk; ed. Ural Polytechnic Inst.; teaching and scientific work, Ural Polytechnic Inst. 1949-55, 1957-59; mem. CPSU 1954-; Research workers, Inst. of Mechanics, U.S.S.R. Acad. of Sciences 1955-57, Prof. Ural Univ. 1959-; scientific and admin. work, Inst. of Math. and Mechanics of Ural Scientific Centre, U.S.S.R. Acad. of Sciences 1970-; Corresp. mem. U.S.S.R. Acad. of Sciences 1964-68, Academician 1968-; Order of Lenin, Order of the Red Banner and other decorations. *Publications:* works in field of stability of motion theory and theory of control. *Address:* c/o Institute of Mathematics and Mechanics, Sverdlovsk, U.S.S.R.

KRAUS, Otakar, O.B.E.; British bass opera singer; b. 1909, Prague, Czechoslovakia; ed. under Konrad Wallerstein in Prague and with Fernando Carpi in Milan; debut as Amonasro (in Aida), Brno 1935; sang in Bratislava 1936-39; went to U.K. 1939; appeared at Savoy Theatre, London in Sorochinsky Fair 1940; joined Carl Rosa Opera 1943, English Opera Group 1946; subsequently mem. Netherlands Opera; debut at Covent Garden as Scarpia (in Tosca) 1950; mem. Covent Garden Opera 1951-67; has appeared at Bayreuth, Vienna, Munich, La Scala Milan, Teatro Colón Buenos Aires, etc.; created roles of Nick Shadow (The Rake's Progress), Venice 1957, Diomede (Troilus and Cressida) and King Fisher (The Midsummer Marriage) at Covent Garden. *Address:* 223 Hamlet Gardens, London, W.6. England.

KRAUSKOPT, Konrad Bates, PH.D.; American geologist; b. 30 Nov. 1910, Madison, Wis.; s. of Francis C. and Maude Bates Krauskopt; m. Kathryn Isabel McCune 1936; one s. three d.; ed. Univ. of Wisconsin, Univ. of Calif. and Stanford Univ.; Instructor in Chem., Univ. of Calif. 1934-35; Asst. Prof. of Geology, Stanford Univ. 1939-42, Assoc. Prof. 1942-50, Prof. of Geochem. 1950-76, Assoc. Dean, School of Earth Sciences, Stanford Univ. 1963-76, Prof. Emer. 1976-; Chief, Geographical Section, G.2, U.S. Army, Far East Command 1947-48; Geologist, U.S. Geological Survey, various times 1942-; Pres. American Geological Inst. 1964, Geological Soc. of America 1967, Geochemical Soc. 1970; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Wisconsin) 1971, Day Medal, Geological Soc. of America 1961. *Publications:* Fundamentals of Physical Science 1941 (6th Edn. 1971), Introduction to Geochemistry 1967, The Third Planet 1974; articles in technical scientific journals. *Address:* Geology Department, Stanford University, Calif. 94305 (Office); 806 La Mesa Drive, Menlo Park, Calif. 94025, U.S.A. (Home). *Telephone:* 415 497-3325 (Office); (415) 854-4506 (Home).

KRAYER, Otto Hermann, M.D.; American pharmacologist and educator; b. 22 Oct. 1899, Koendringen i. Br., Germany; s. of Hermann Krayer and Frieda Berta Wolfsperger; m. Erna Ruth Philipp, M.D., 1939; ed. Univs. of Freiburg, Munich and Berlin; Lecturer (Privatdozent) on Pharmacology and Toxicology, Univ. of Berlin 1929-32; Prof. of Pharmacology and Toxicology, Univ. of Berlin 1932-33, Acting Head, Dept. of Pharmacology, 1930-32; Visiting Prof. and Head Dept. of Pharmacology American Univ. of Beirut, Lebanon 1934-37; Assoc. Prof. of Pharmacology, Harvard Medical School, Boston 1937-39, Head, Dept. of Pharmacology, Harvard Medical School 1939-66, Assoc. Prof. of Comparative Pharmacology 1939-51, Prof. of Pharmacology 1951-54, Charles Wilder Prof. of Pharmacology 1954-64, Gustavus Adolphus Pfeiffer Prof. of Pharmacology 1964-66, Emer. 1966-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, German Leopoldina Acad., Swiss Acad. of Medical Sciences; Pres. American Soc. for Pharmacology and Exp. Therapeutics 1957-58; Torald-Sollmann Award in Pharmacology 1961; Schmiedeberg-Plakette 1964; Research Achievement Award American Heart Assn. 1969. *Publications:* scientific reports on physiology and pharmacology of autonomic system and on heart and circulation; exp. studies on pharmacology of Veratrum alkaloids and of Rauwolfia alkaloids. *Leisure interests:* reading (philosophy, poetry, historical and biographical literature), hiking. *Address:* Apartment 202, 3940 East Timrod Street, Tucson, Arizona 85711, U.S.A. *Telephone:* 602 881-2019.

KRAYEVSKIY, Nikolay Aleksandrovich; Soviet pathologist; b. 17 Sept. 1905, Pashkovo, Smolensk Region; ed. Moscow Univ.; Asst. Moscow Univ. 1928-30; Asst., Inst. of Occupational Diseases 1930-32; Asst., Lecturer, Prof., Second Moscow Medical Inst. 1931-54; Head of Laboratory, Cen. Inst. of Hematology and Blood Transfusion 1939-51; Head of Dept., Cen. Inst. for Postgraduate Medical Training 1954-60; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1953-60, mem. 1960-; Academician-Sec. U.S.S.R. Acad. of Medical Sciences 1960-62; Head of Dept. Inst. of Experimental and Clinical Oncology, U.S.S.R. Acad. of Medical Sciences 1962-; Chair. of Board of All-Union Scientific Soc. of Pathologists; mem. WHO Expert Advisory Panel; mem. Editorial Board of Archives of Pathology; Order of Red Star 1944, Patriotic War, First Class 1945, Badge of Honour, Lenin Prize 1963. *Publications:* Over 150 works on gastric pathology, morbid anatomy of haemotransfusional complications, and radiation complications in oncology. *Address:* c/o Institute of Experimental and Clinical Oncology, Kashirskoye Chaussée 6, Moscow, U.S.S.R.

KREBS, Sir Hans (Adolf), Kt., M.D., M.A., F.R.S.; British biochemist; b. 25 Aug. 1900, Hildesheim (Germany); m. Margaret Fieldhouse 1938; two s. one d.; ed. Univs. of Göttingen, Freiburg, Munich, Berlin, Hamburg and Cambridge; Privatdozent, Univ. of Freiburg 1932-33; Demonstrator in Biochemistry, Cambridge Univ. 1934; Lecturer in Pharmacology, Sheffield Univ. 1935-45, in charge of Dept. of Biochemistry 1938-45, Prof. of Biochemistry 1945-54; Whitley Prof. Oxford Univ. 1954-67; foreign mem. Accad. Nazionale dei Lincei, Acad. de Médecine and Soc. de Biologie; Foreign Assoc. U.S. Nat. Acad. of Sciences; Hon. mem. Deutsche Akademie der Naturforscher Leopoldina 1969, Deutsche Gesellschaft für innere Medizin, Assen. of American Physicians; Hon. Fellow, Weizmann Inst. of Science; hon. degrees from Paris, Chicago, Freiburg-im-Breisgau, Glasgow, Sheffield, London, Leicester, Bristol, Jerusalem, Berlin (Humboldt), Granada, Leeds, Wales, Bordeaux, Hanover, Valencia and Pennsylvania Univs; Lasker Award 1953 and Nobel Prize (jointly) for Physiology 1953, Copley Medal, Royal Soc. 1961, Gold Medal, Royal Soc. of Medicine 1965. *Address:* 27 Abberbury Road, Iffley, Oxford, England.

KREHBIEL, V. John; American insurance executive and diplomatist; b. 29 July 1905, Castleton, Kan.; s. of John D. and Caroline Krehbiel; m. Elizabeth Findlay 1929; one d.; ed. Univ. of Kansas; with AETNA Life Insurance Agency 1929-72; Amb. to Finland 1973-75; Chair. Republican Cen. Cttee. for Calif. 1958-62; Vice-Chair. Republican Finance Cttee. 1960-62; mem. Trade Mission to Germany 1959, to Scandinavian countries 1972. *Leisure interest:* golf. *Address:* 132 Monarch Bay, South Laguna, Calif., U.S.A. (Home).

KREISKY, Bruno, LL.D.; Austrian politician; b. 22 Jan. 1911, Vienna; s. of Max and Irene Felix Kreisky; m. Vera Fuerth 1942; one s. one d.; ed. Univ. of Vienna; Aceste mem. Austrian Social Democratic Party to 1934; arrested and imprisoned 1935 and again 1938, when escaped to Sweden; [redacted] scientific staff Stockholm Co-operative Society 1939-46; joined Austrian Foreign Service 1946; Austrian Legation, Stockholm 1946-51; Austrian Fed. President's Office 1951-53; State Sec. for Foreign Affairs in Fed. Chancellery 1953; elected to Parl. 1956; Minister of Foreign Affairs 1959-66; Chair. Socialist Party of Austria 1967-; Fed. Chancellor of Austria 1970-; initiator and Vice-Pres. Theodor Körner Fund for Promotion of Arts and Sciences; Vice-Chair. of Board, Inst. for Advanced Studies and Scientific Research, Vienna; Pres. Vienna Inst. for Devt.; Gold Grand Cross of Honour, numerous foreign decorations including Freedom Award, 1975. *Publications:* The Challenge: Politics on the Threshold of the Atomic Age 1963, Aspects of Democratic Socialism 1974, Neutrality and Co-existence 1975, The Times We Live In: Reflections on International Politics 1978 and numerous articles mainly on the international position of Austria and economic subjects. *Leisure interests:* history, baroque art. *Address:* Bundeskanzleramt, Ballhausplatz 2, 1010 Vienna; Armbrustergasse 15, 1190 Vienna, Austria. *Telephone:* 66-15-0.

KREJČA, Otomar: Czechoslovak actor and director; b. 23 Nov. 1921, Skrýšov; ed. Charles Univ., Prague; Mem. Prague Nat. Theatre 1951-69, Art Chief, Nat. Theatre Drama Section 1956-61; Artistic Dir. of Divadlo [redacted] branou (Theatre Beyond the Gate) 1965-71, Dir. 1971-72; Producer Divadlo S. K. Neumanna 1973-; Chair. Union of Czechoslovak Theatre Artists 1965-69; Chair. Union of Czech Theatre and Broadcasting Artists 1969-70; Ordre des Arts et des Lettres 1978; State Prize 1951, 1968, Honoured Artist 1958, Kainz Medal (Austria) 1969, Int. Pirandello Prize (Italy) 1978. *Plays directed include:* The Seagull, Ivanov, Three Sisters, Platonov (Chekhov), Romeo and Juliet, Hamlet, Measure for Measure (Shakespeare) and other classical and modern dramas; Guest Dir. for productions in Havana, Brussels, Cologne, Salzburg, Vienna, Stockholm and Avignon. *Address:* Prague 8, Kubišova 26, Czechoslovakia. *Telephone:* 843667.

KREKELER, Heinz L., DR. PHIL.; German diplomatist; b. 20 July 1906, Bottrop; s. of Heinrich and Helene Lindemann Krekeler; m. 1st Ilse Goebel 1931 (died 1963), 2nd Helga Finke 1965; one s.; ed. Univs. of Freiburg, Munich, Göttingen and Berlin; Chem. engineer with different firms 1930-46; mem. Lippe Diet 1946, Diet of North Rhine-Westphalia 1947-50, Fed. Assembly 1949; partner and fmr. Dir. F. Eilers-Schünemann Verlag (Publishers), Bremen 1948-; Consul-Gen. in N.Y. 1950-51; Chargé d'affaires, Fed. Republic of Germany, Washington, D.C. 1951-53, Ambassador 1953-58; mem. Euratom Comm. 1958-64; Lecturer on Int. Relations and Political Science, Hochschule für Politische Wissenschaften, Munich; mem. Deutsche Gesellschaft für Auswärtige Politik, Advisory Cttee., Bologna Center, Johns Hopkins Univ.; mem. Max-Planck-Gesellschaft zur Förderung der Wissenschaften; Grand Cross Order of Merit, 2nd Class (Germany); Grande Ufficiale dell'Ordine al Merito 1959; Commendatore con Placca dell'Ordine S. Gregorio il Grande; Grand Officier Ordre de Léopold; Hon. LL.D. (Xavier and South Carolina). *Publications:* Die Diplomatie 1965, Die Aussenpolitik 1967, Wissenschaft und Politik 1975. *Leisure interests:* shooting (deer stalking), yachting, travelling. *Address:* Gut Lindemannshof, 4902 Bad Salzuflen, Federal Republic of Germany. *Telephone:* 0522[redacted]-20076.

KREMP, Herbert, DR.PHIL.; German journalist; b. 12 Aug. 1928, Munich; s. of Johann and Elisabeth Kremp; m. Brigitte Kremp 1956; two d.; ed. Munich Univ.; Reporter, Frankfurter Neue Presse 1956-57; Political Editor Rheinische Post 1957-59; Dir. Political Dept., Der Tag, Berlin 1959-61; Bonn Corresp. Rheinische Post 1961-63; Editor-in-Chief, Rheinische Post 1963-68; Editor-in-Chief, Die Welt 1969-78; Peking Corresp., Oct. 1978-. *Address:* Die Welt, 5300, Bonn 2, Godesberger Allee, Federal Republic of Germany. *Telephone:* 304312.

KRENEK, Ernst; American (b. Austrian) composer; b. 23 Aug. 1900, Vienna, Austria; ed. Univ. of Vienna and Acads. of Music in Vienna and Berlin; lived in Switzerland 1923-25; Asst. to Dir. of Staatstheater, Kassel 1925-27; lived in Vienna 1927-37; emigrated to U.S.A. 1937, naturalised 1945; Prof. of Music, Vassar Coll. 1939-42; Prof. of Music and Dean of Fine Arts, Hamline Univ., St. Paul, Minn. 1942-47; Grosses Bundesverdienstkreuz 1965; Hamburg Bach Prize 1966. *Compositions include:* Der Sprung über den Schatten 1923, Orpheus und Eurydike 1923, Jonny Spielt Auf 1925-26, Karl V 1930-33, Dark Waters 1950, Pallas Athene 1952-55, Golden Ram 1962, Sardakai 1967-69 (operas); symphonies: No. 1 1921, No. 2 1922, No. 3 1922, No. 4 1947, No. 5 1949; piano concertos: No. 1 1923, No. 2 1937, No. 3 1946, No. 4 1956; Sestina 1957, Quaestio Temporis 1959, Horizon Circled 1967, Perspectives 1967-68, Kitharaulos 1971, Static and Ecstatic 1972-73, Dream Sequence 1975-76. *Publications:* Music Here and Now 1939, Studies in Counterpoint 1940, Musik im goldenen Westen 1949, Zur Sprache gebracht 1958, Gedanken unterwegs 1959, Horizons Circled 1974. *Address:* c/o BMI, 40 West 57th Street, New York, N.Y. 10019, U.S.A.

KRENZ, Jan; Polish conductor and composer; b. 14 July 1926, Włocławek; m. Alina Krenz; one s.; ed. Warsaw and Łódź; Conductor Łódź Philharmonic Orch. 1945; Conductor, Poznań Philharmonic Orch. 1948-49; Dir. and First Conductor Polish Radio Symphony Orch., Katowice 1953-67; Artistic Dir., First Conductor Grand Opera House (Teatr Wielki), Warsaw 1967-73; Gen. Div. of Music, Bonn Orch. 1978-; tours in Hungary, Romania, Czechoslovakia, France, U.S.S.R., Germany, Italy, U.K., U.S.A., Japan, Australia etc.; State Prize 1955, 1972; Prize Minister of Culture and Art 1955, 1963; Prize of Union of Polish Composers 1968; Grand Prix du Disque, France 1972; Prize of Polish Artists' and Musicians' Assen. (SPAM) "Orfeusz" 1974; numerous decorations. *Compositions include:* Symphony, two String Quartets, Nocturnes for Orchestra, Rozmowa dwóch miast (Conversation of Two Towns) (cantata), Rhapsody for Strings, Xylophone, Tam-Tam, Timpani and Celesta 1952, Concertino for Piano and Small Symphony Orchestra 1952; orchestral transcriptions of three fugues from The Art of Fugue (J. S. Bach) entitled: Polyphonic Suite 1950, Classical Serenade 1950; orchestral transcriptions of Microcosm (B. Bartók) 1958, Masses (Szymanowski) 1964. *Leisure interest:* painting. *Address:* Al. 1 Armii Wojska Polskiego 16/38, 00-582 Warsaw, Poland.

KREPS, Juanita Morris, M.A., PH.D.; American economist, teacher and government official; b. 11 Jan. 1921, Lynch, Ky.; d. of the late Elmer and Cenia Blair Morris; m. Dr. Clifton H. Kreps, Jr. 1944; [redacted] s. two d.; ed. Berea Coll., Duke Univ.; Instructor in Econs., Denison Univ., Ohio 1945-46, Asst. Prof. 1947-50; Lecturer, Hofstra Univ., N.Y., 1952-54, Queens Coll., N.Y. 1954-55; Visiting

Asst. Prof. Duke Univ., N.C., Asst. Prof. 1958-61, Assoc. Prof. 1962-67, Prof. 1967-, Dean of Women's Coll., Asst. Provost 1969-72, James B. Duke Prof. 1972-, Vice-Pres. of Univ. 1973-; U.S. Sec. of Commerce Jan. 1977-; Ford Faculty Research Fellow 1964-65; Dir. New York Stock Exchange 1972, J. C. Penney 1972, N.C. Nat. Bank and Corpn. 1973, Western Electric 1974, R. J. Reynolds Industries 1975, Eastman Kodak 1975; Trustee, Coll. Retirement Equities Fund 1972-, N.C. Blue Cross, Blue Shield, Berea Coll.; Chair. Board of Educ. Testing Service 1971-; mem. Nat. Merit Scholarship Board 1972-; Pres. American Assen. for Higher Educ. 1974-; six hon. degrees. *Publications:* editor: Employment, Income and Retirement Problems of the Aged 1963, Technology, Manpower and Retirement Policy 1966; author: Lifetime Allocation of Work and Income 1971, Sex in the Marketplace: American Women at Work 1971; co-author: Principles of Economics (with C. E. Ferguson) 1962, 1965, Contemporary Labor Economics 1974, Sex, Age and Work 1975, Women in the American Economy, ■ Look to the 1980s 1976; over 60 papers on ageing, retirement and econs. *Leisure interests:* music, art. *Address:* U.S. Department of Commerce, 14th Street between Constitution and E Street, N.W., Washington, D.C. 20230; 1407 West Pettigrew Street, Durham, N.C. 27705, U.S.A. (Home).

KREPS, Yevgeniy Mikhailovich; Soviet physiologist; b. 1 May 1899, St. Petersburg (now Leningrad); ed. Military Medical Acad., Leningrad; Postgraduate student and Junior Instructor, Mil. Med. Acad. 1925-31; Head, Physiological Laboratory Murmansk Biological Station 1923-33; worked in England 1930-31; mem. Emergency Rescue Cttee., U.S.S.R. Navy 1931-51; Prof. Leningrad Univ. 1934-37; Head, Lab. of Comparative Physiology and Biochemistry, Pavlov Inst. of Physiology, U.S.S.R. Acad. of Sciences 1936-60; Dir. Inst. of Evolutionary Physiology and Biochemistry, U.S.S.R. Acad. of Sciences 1960-; participated Arctic voyages and expeditions 1957-58, 1959-60, 1973; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-66, mem. 1966-; Academic Sec. Physiology Branch, U.S.S.R. Acad. of Sciences 1966-, Hero of Socialist Labour 1969, Order of Lenin (twice) and various decorations. *Publications:* Works on comparative physiology and biochemistry of nervous system, respiratory function of blood. *Address:* Institute of Evolutionary Physiology and Biochemistry, U.S.S.R. Academy of Sciences, Prospekt M. Toreza 44, 194223 Leningrad, U.S.S.R.

KREYBERG, Leiv, M.D.; Norwegian pathologist; b. 22 May 1896, Bergen: s. of Dr. Peter Christian Kreyberg and Elizabeth Konow; m. Emmie Louise Klem 1924; two s. two d.; Prof. of Pathology, Oslo Univ. 1938-64, Emer. Prof. 1964-; mem. Acad. Science and Letters, Oslo; cancer research and experimental pathology; Chair, Biological Soc. Oslo 1928-30, Union of Pathologists 1946-47; Vice-Pres. (Europe) Int. Union against Cancer 1954-58; hon. mem. Indian Assen. Pathologists; Soc. Française d'Angiologie and Swedish Medical Assen., Austrian Cancer Soc., Belgian Pathological Soc., Pathological Soc. of Great Britain and Ireland; Consultant in Cancer, WHO; Dr. h.c. (Perugia) 1965, (Brno) 1969; Commdr. of Royal Order of St. Olav. *Publications:* on experimental pathology, especially problems of damage by cold, carcinogenesis and lung cancer. *Books:* Histological Lung Cancer Types 1962, Histological Typing of Lung Cancer (WHO Geneva) 1967, Aetiology of Lung Cancer 1969, Afghanistan 1951, Stasis and Necrosis 1963, Efter Ordre, eller uten (War Memoirs, Norwegian Campaign 1940) 1976, Kast ikke Kortene (War Memoirs, Norwegian Campaign Overseas 1940-45) 1978. *Address:* Munkedams vei 79, Oslo, Norway.

KRIANGSAK CHOMANAN, Gen.; Thai army officer and politician; b. 1917; ed. Thai Royal Mil. Acad. and U.S. Army Staff Coll.: served in Second World War and Korean War; Deputy Chief of Staff, Supreme Command Headquarters to 1974, Chief of Staff 1974-76; Deputy Supreme Commander of Royal Thai Armed Forces 1976-77, Supreme Commander Oct. 1977-; participated in mil. coups Oct. 1976 and 1977-78; Gen. Sec. Nat. Administrative Reform Council Oct. 1976; Vice-Chair. Prime Minister's Advisory Council Oct. 1976-Oct. 1977; Sec.-Gen. Revolutionary Council, Nat. Director of Peacekeeping Oct.-Nov. 1977; Sec.-Gen. Nat. Policy Council 1977-79; Prime Minister 1977-, Minister of Finance and Agric. May 1979-, of the Interior 1977-78, of Defence 1978-79. *Address:* Office of the Prime Minister, Government House, Bangkok, Thailand.

KRIPALANI, Acharaya Jiwatram Bhagwandas, M.A.; Indian politician; b. 1888; Prof. in Bihar under Calcutta Univ. 1912-17; worked with Gandhi 1917-18, with Pandit Madan Mohan Malaviya 1918; Prof. of Politics, Benares Hindu Univ. 1919-20; active in Khadi and village work and Dir. Gandhi Ashram, U.P. 1920-; Principal of Gujarat Vidyapith 1922-27; imprisoned 1942-45; Pres. Indian Nat. Congress 1946-47; mem. Constituent Assembly 1946-51; formed Congress Democratic Front 1951; founded Vigil, political weekly 1950; formed Kisan Mazdoor Praja Party 1951; mem. Lok Sabha (Parl.) 1952-62, 1963-70. *Publications:* The Gandhian Way, The Non-Violent Revolution, The Indian National Congress, The Politics of Charkha, The Future of the Congress, The Fateful Year, Gandhi the Statesman, Basic Education, Gandhi—Life and Thought. *Address:* A4 Sarnodaya Endlavi, New Delhi 1917; Shri Gandhi Ashram, Lucknow, Uttar Pradesh, India.

KRISHNA Moorthi, C. S.; Indian civil servant; b. 1921; ed. Madras Univ.; Ordnance Officer, Indian Army 1943-46; Asst. Commr. Refugees, Punjab 1947-48; Sub-Collector and Joint Magistrate, Madras State 1948-52; Board of Revenue, Madras 1952-53; Ministry of Finance 1954-58; Counsellor, Indian Comm.-Gen. for Econ. Affairs, Washington 1958; Alt. Exec. Dir. Int. Bank for Reconstruction and Devt. and Int. Finance Corpn. 1958; Minister (Econ.) Indian Embassy, Washington 1961-63, Exec. Dir. for India, Int. Bank for Reconstruction and Development, Int. Finance Corpn. and Int. Development Assen. 1962-63; Joint Sec. Dept. of Econ. Affairs, Ministry of Finance, New Delhi 1963-66; Vice-Pres. Asian Devt. Bank, Manilla, Philippines 1966-78. *Address:* c/o Ministry of Foreign Affairs, New Delhi, India.

KRISHNAN, Rappal Sangameswara, D.SC., PH.D., Indian physicist; b. 1911, Rappal, Kerala; s. of R. P. Sangameswara Iyer and C. R. Ammani Ammal; m. Rajammal 1934; two s. three d.; ed. Univ. of Madras, St. Joseph's Coll., Trichy, Indian Inst. of Science, and Trinity Coll., Cambridge; Research Asst. Indian Inst. of Science 1935-38; 1851 Exbn. Overseas Scholar, Univ. of Cambridge 1938-41; Lecturer in Physics, Inst. of Science 1942-45, Asst. Prof. 1945-48, Prof. and Head of Dept. of Physics 1948-72, Emer. Prof. 1972-73; Vice-Chancellor Kerala Univ. 1973-77; Principal Investigator, DST Project, Indian Inst. of Science, Bangalore 1977-; Fellow of Inst. of Physics, London, of American Physical Soc., of Indian Acad. of Sciences and of Nat. Inst. of Sciences; Pres. Physics Section, Indian Science Congress 1949; Nat. Science Foundation Sr. Foreign Scientist, Fellow, Dept. of Physics, North Tex. State Univ. Denton, Tex. 1971-72; Original contributions to colloid optics (Krishnan Effect), light-scattering, Raman effect, crystal physics, etc. *Publications:* Progress in Crystal Physics, Vol. I 1958, Two Chapters in Raman Effect, Vol. I 1971, Thermal Expansion of Crystals 1977, Piezooptics 1978 and contributions to other books. *Leisure interests:* tennis, photography. *Address:* Physics Department, Indian Institute of Science, Bangalore 560012, Karnataka (Office); 232, 18th Cross, Palace, Upper Orchards, Sadasivanagar, Bangalore 560006, Karnataka, India (Home). *Telephone:* 30011 (Office); 30703 (Home).

KRISHNASWAMY, K. S., PH.D.; Indian bank official; b. 1920, Chikkamagalur; m. Madhura Krishnaswamy 1947; one s. one d.; ed. Univ. of Mysore and London School of Economics; Lecturer in Econs., Univ. of Bombay 1946-47; Research Officer, Planning Comm., New Delhi; Research Officer, Research Dept., Reserve Bank of India, Bombay 1952-54, Deputy Dir. of Research, Research Dept. 1954-50; Staff mem. Econ. Devt. Inst. (World Bank), Wash., D.C. 1956-59; Deputy Chief, Industrial Finance Dept., Reserve Bank of India 1959-61; Chief, Econ. Policy Section, Planning Comm. 1961-64, Econ. Adviser, Planning Comm. 1964-67; Dir. Econ. Devt. Inst., Int. Bank for Reconstruction and Devt. 1967-71; Principal Adviser Reserve Bank of India 1972, Exec. Dir. 1973-, Deputy Gov. 1975-; Chair. Oil Prices Cttee., Govt. of India 1974-76; Pres. Indian Econ. Assen. 1976. *Leisure interests:* music and letters. *Address:* Reserve Bank of India, Central Office, Bombay 400001, India.

KRISS, Anatoliy Yevseyevich; Soviet microbiologist; b. 16 Sept. 1908, ed. Leningrad Medical Inst. Scientific worker, Inst. of Microbiology, U.S.S.R. Acad. of Sciences 1935-; Dr. of Biological Sciences 1947; Head of Marine Microbiology Dept., Inst. of Microbiology 1948-; Head of Electron Microscopy Laboratory, U.S.S.R. Acad. of Sciences 1946-; microbiological research, Antarctic 1967-; awarded title of Prof. of Microbiology 1950; Lenin Prize 1960. *Publications:* The Variability of Actinomycetes 1937, Deep-Sea Microbiology 1959 (German edn. 1961, English edn. 1963, Japanese edn. 1963), Microbial Population of the World Ocean 1964 (English edition 1967), Life Processes and Hydrostatic Pressure 1973, Microbiological Oceanography 1976, Microbiology of Polar Countries 1978, and over 200 scientific papers. *Address:* c/o U.S.S.R. Academy of Sciences, Institute of Microbiology, 7a Profsojuznaja Street, Moscow, U.S.S.R.

KRISTENSEN, Sven Møller, DR. PHIL.; Danish writer, literary critic and editor; b. 12 Nov. 1909, Darum, Jutland; m. Hanne Hahne 1937; three d.; ed. Copenhagen Univ.; Literary and Theatre Critic, Land og Folk 1945-53; Editor Athenæum (literary magazine) 1945-49, Dialog 1950-53; Prof. of Scandinavian Literature Aarhus Univ. 1953-64, Copenhagen Univ. 1964-; mem. Danish Acad. 1960; mem. Norwegian Acad. of Science 1968. *Publications:* Æstetiske studier i dansk fiktionsprosa 1870-1900 1938, Digteren og samfundet I-II

1942, 1945; Amerikansk litteratur 1920-1940 1942, Dansk Litteratur 1918-1950 1950, En musaik af moderne dansk litteratur 1954, Digtningens Teori 1958, Digtning og Livvsyn 1959, Vurderinger 1961, Den dobbelte Eros 1966, Frammede digterei det 20 aarhundrede (editor) 1967-68, Litteratursociologiske (essays) 1970, Den store generation 1974. *Leisure interest:* music. *Address:* Copenhagen University, Vingårds allé 53, 2900 Hellerup, Denmark. *Telephone:* Hellerup 1521.

KRISTENSEN, Thorkil; Danish business economist; b. 9 Oct. 1899; ed. High School, Askov and Univ. of Copenhagen; Teacher at Commercial Acad., Aarhus 1927; Inspector of Savings-Banks 1928-35; Asst. Lecturer, Univ. of Copenhagen 1936-38; Prof. of Business Economics, Univ. of Aarhus 1938; Copenhagen School of Economics 1948; Minister of Finance 1945-47, 1950-53; mem. of Board of Court of Conciliation in Labour questions 1940-45; mem. of Folketing 1945-60; mem. Acad. of Technical Sciences 1946-; Sec.-Gen. OEEC 1960-61; Chair. Preparatory Cttee. Organisation for Economic Co-operation and Development (OECD) 1960-61, Sec.-Gen. 1961-69; Dir. Inst. for Devt. Research, Copenhagen 1969-72. *Publications:* Danmarks Driftsregnskab 1930, Undersøgelser af det kommunale Skattespørgsmaal 1935, Faste og variable Omkostninger 1939, Haandbog i Kredit og Hypotekforeningsforhold 1944, The Economic World Balance 1960, The food problem of developing countries 1968, U-lands-planlaegning: Landrug contra industrie 1968, Development in Rich and Poor Countries 1974. *Address:* 18 Odinsvej, 3460 Birkerod, Denmark.

KRISTIANSEN, Erling (Engelbrecht); Danish diplomatist and government official; b. 31 Dec. 1912, Terndrup; s. of the late Kristian E. Kristiansen and Andrea Madsen; m. Annemarie Selinko 1938; ed. Herning Gymnasium, Univs. of Copenhagen and Geneva, Paris and London; Danish Civil Service, Ministry of Labour 1941, with Free Danish Legations Stockholm 1943, Washington 1944, London 1945; Commercial Sec. Danish Legation, London 1945-47; Head, Del. to Org. for European Economic Co-operation (OEEC) 1948-50; Sec., Economic Cttee. of Cabinet 1950-51; Asst. Under-Sec. of State, Ministry of Foreign Affairs 1951-53, Deputy Under-Sec. 1954-64; Amb. to U.K. 1964-77, concurrently to Ireland 1964-73; Chair. Danish Dels. to major econ. confs. 1954-63; Vice-Chair. Nordic Investment Bank 1977, Chair. 1978; [illegible] Board, The East Asiatic Co.; Knight Grand Cross, Order of Dannebrog, Royal Victorian Order, Order of Falcon of Iceland, Grand Officier Légion d'honneur and other decorations. *Publication:* Folkeforbundet (The League of Nations) 1938. *Leisure interests:* outdoor sports, languages. *Address:* Granhøjen 4, 2900 Hellerup, Denmark. *Telephone:* 01-68-1375.

KRISTIANSEN, Georg; Norwegian diplomatist; b. 4 March 1917; ed. Univ. of Oslo and Norwegian War Coll.; Army Service 1940-45; Sec., Ministry of Foreign Affairs 1946-47; Attaché, Paris 1947-52; Sec. later Counsellor, of Foreign Affairs 1952-57; Instructor Nat. Defence Coll., Oslo 1957-59; Dir. later Dir.-Gen. Political Affairs, Ministry of Foreign Affairs 1959-64; Perm. Rep. to NATO 1964-70, and OECD 1964-67; Dir.-Gen. Civil Defence and Emergency Planning 1970-74; Amb. to OECD 1974-; *Address:* 109 avenue Henri-Martin, Paris 75116, France.

KRLEŽA, Miroslav; Yugoslav writer; b. 7 July 1893. Dir. Yugoslav Lexicographical Inst. *Publications:* include The Return of Philip Latinovicz, On the Verge of Reason, A Banquet in Blithonamia, Flags (novels); God Mars of Croatia, 1001 Deaths (short stories); In Agony, Golgotha, The Glembaj Cycle, Aretaeus (plays); The Ballads of Petrica Kerempuh, Beisetzung in Theresienburg 1964, Europäisches Alphabet 1964, Essays (6 vols.), Collected Poems (7 vols.), Legends (7 plays: Michelangelo, Christopher Columbus, etc.). *Address:* c/o Yugoslav Lexicographical Institute, Zagreb; Strossmayer trg. 4, Zagreb, Yugoslavia.

KROC, Ray A.; American restaurant company executive; b. 5 Oct. 1902, Chicago, Ill.; m. Joan Kroc; ed. Oak Park public schools, Illinois; joined Lily-Tulip Cup Co. 1923, midwest Sales Man. 1927-41; sales rep. Mult-A-Mixer Co. 1941-55; opened first restaurant in McDonald's chain, Des Plaines, Chicago, April 1955; Chair. Board McDonald's Corpn., Chicago 1955-; Chair., Treas. San Diego Padres baseball team; Horatio Alger Award 1972; American of the Year (Lions Int.) 1973; Golden Plate Award (Int. Foodservice Manufacturers Assn.); special award from Illinois Special Olympics; Man of the Year (St. Jude Children's Research Hosp.); Restaurateur of the Year (Nat. Restaurant Assn.) 1975; Outstanding Chicagoan (Chicago Chapter of Nat. Multiple Sclerosis Soc.). *Leisure interests:* music, charitable activities through Kroc Foundation. *Address:* McDonald's Corporation, McDonald's Plaza, Oak Brook, Ill. 60521, U.S.A.

KROGH, Desmond Charles, M.A., EC. DRS., D.PHIL.; South African central banker; b. 19 July 1931, Windhoek, S.W. Africa; s. of P. I. Krogh and B. Theron; m. Surine Groenewald 1956; two s.; ed. Swakopmund High School, Univs. of Cape Town, Amsterdam and Pretoria; Lecturer in Econs., Univ. of Orange Free State 1946, Univ. of Pretoria 1957-61; Asst. Econ. Adviser to Prime Minister 1961; Prof. of Econs., Univ. of South Africa 1962-69; Expert Witness to Int. Court of Justice on Econ. Devt. of S.W. Africa 1966; mem. Prime Minister's Econ. Advisory council 1967-73; Full-time Adviser to Fiscal and Monetary Policy Comm. 1968-69; Dir. of South African Federated Chamber of Industries 1969-73; Adviser to Govt. negotiations with GATT, mem. Cttee. on South Africa-GATT Relations 1972; Adviser to Reserve Bank of Rhodesia 1973-74, Deputy Gov. 1974-76, Gov. 1976-; mem. Rhodesian Comm. on Import Control 1975; Medal and Prize of S.A. Econ. Soc. 1953, Netherlands-S. African Scholarship 1954-55, Ebden Prize 1957, Carnegie Study Grant for U.S.A. 1960, Official Visitor to U.K. 1971; Commdr. Légion du Mérite 1978, C.L.M. (Rhodesia). *Publications:* numerous articles on economic structure, development, inflation and finance in Southern Africa. *Leisure interests:* golf, history. *Address:* Reserve Bank of Rhodesia, P.O. Box 1283, Salisbury, Rhodesia. *Telephone:* 790731 (Office); 45588 (Home).

KROGMAN, Wilton, PH.D., LL.D., D.SC.; American physical anthropologist; b. 28 June 1903, Oak Park, Ill.; s. of Wilhelm Claus Krogman and Lydia Magdalena Wriedt; m. 1st Virginia M. Lane 1931 (divorced 1944), 2nd Mary Helen Winkley 1945; three s. one d.; ed. Univ. of Chicago, Western Reserve Univ. and Royal Coll. of Surgeons, London; Instructor, Univ. of Chicago 1929-30, Assoc. Prof. of Anatomy and Physical Anthropology 1938-47; Assoc. Prof. of Anatomy and Physical Anthropology Western Reserve Univ. 1931-38; Prof. of Physical Anthropology Graduate School of Medicine, Univ. of Pennsylvania and Dir. Philadelphia Center for Research in Child Growth 1947-71; [illegible] Nat. Acad. of Sciences; Viking medal in Physical Anthropology 1950, Ketcham Award of American Assn. of Orthodontists 1969. *Publications:* Bibliography of Human Morphology 1941, Growth of Man 1941, Syllabus in Roentgenographic Cephalometry (with V. Sassouni) 1957, Human Skeleton in Forensic Medicine 1962, Child Growth 1972, Cleft Palate and Cleft lip: The Team Approach to the Clinical Management and Rehabilitation of the Patient (with Cooper, Harding, Mazaheri, Millard) 1979. *Leisure interests:* fishing, beachcombing. *Address:* Lancaster Cleft Palate Clinic, 24 North Lime Street, Lancaster, Pa. 17602 (Office); 1127 Spring Grove Avenue, Lancaster, Pa. 17603, U.S.A. (Home). *Telephone:* (717) 394-3793 (Office); (717) 299-2636 (Home).

KROHN, Hans-Broder, DR. AGRIC. SC.; German international official; b. 9 July 1915, Bredstedt; s. of Carl Krohn and Emma Amalia Nissen; m. Ilse Philipp 1941; two s. one d.; ed. Univ. of Göttingen; Private Sec. to Minister of Food, Agriculture and Forestry; Head of Div., FAO, OECD; with EEC Comm., participated in drawing up the common agricultural policy 1958; Dir. of Agricultural Econs. and Legis., Directorate-Gen. of Agric. 1962, Deputy Dir.-Gen. of Agric. 1968; Dir.-Gen. for Devt., Comm. of the European Communities 1970-77; Commdr. Order of Merit (Italy), Ordre Nat. (Senegal); Grand Officier Ordre Nat. (Madagascar), Ordre du Mono (Togo). *Publications:* Die Futtergetreidewirtschaft der Welt 1900-1955 1957, Agrarpolitik in Europa 1962, Das Abkommen von Lomé zwischen der Europäischen Gemeinschaft und den AKP-Staaten 1975. *Leisure interests:* gardening, antiques.

KROL, H.E. Cardinal John Joseph J.C.D.; American ecclesiastic; b. 26 Oct. 1910, Cleveland, Ohio; s. of John and Anna Pietruszka Krol; ed. St. Mary's Seminary, Cleveland and Pontifical Gregorian Univ., Rome, Pontifical Catholic Univ. of America; ordained Priest 1937; Prof. of Canon Law, St. Mary's Seminary 1942; Vice-Chancellor, Diocese of Cleveland 1943-51, Chancellor 1951-53; Titular Bishop of Cadi, Auxiliary Bishop to Bishop of Cleveland, also Vicar-Gen. 1953-61; Archbishop of Philadelphia 1961-; cr. Cardinal by Pope Paul VI 1967; mem. Pontifical Comm. for Mass Media Communications 1964-69; Vice-Pres. Nat. Conf. of Catholic Bishops and U.S. Catholic Conf. 1966-72, Pres. 1973-75; [illegible] Pontifical Comm. for Revision of Code of Canon Law 1973-; Dr. h.c. of sixteen American univs.; numerous decorations. *Address:* 222 North 17th Street, Philadelphia, Pa. 19103 (Office); 5700 City Avenue, Philadelphia, Pa. 19131, U.S.A. (Home).

KROLIKOWSKI, Herbert, DR.PHIL.; German diplomatist; b. 15 March 1924, Oels, Silesia; brother of Werner Krolikowski (*q.v.*); war service from 1942, prisoner-of-war in the U.S.S.R. to 1949; on staff of the G.D.R. Embassy in the U.S.S.R. 1955-58; Head of Scandinavian Section of the Ministry of Foreign Affairs 1958-60; Head, First European Dept, (U.S.S.R.), Ministry of Foreign Affairs 1962-63, Deputy Minister for Foreign Affairs 1963-69, First Deputy

Minister 1975-; Amb. to Czechoslovakia 1969-73; mem. Sozialistische Einheitspartei Deutschlands (SED) 1952-; Cand. mem. SED Cen. Cttee. 1971-76, mem. 1976-; Vaterländischer Verdienstorden in Bronze, Verdienstmedaille der DDR. *Address:* c/o Ministerium für Auswärtige Angelegenheiten, Berlin, German Democratic Republic.

KROLIKOWSKI, Werner; German politician; b. 12 March 1928, Oels, Silesia; m.; two c.; brother of Herbert Krolikowski (*q.v.*); joined Sozialistische Einheitspartei Deutschlands (SED) 1946-; First Sec. of SED Kreis party Ribnitz-Damgarten 1952, First Sec. SED, Bezirk Dresden 1960-73; mem. Cen. Cttee. 1963-; mem. Politburo 1971-; mem. Volkskammer 1963-, of Volkskammer Cttee. of nat. defence 1971-; Sec. for Economy in Cen. Cttee. 1973-76; First Deputy Chair. Council of Ministers 1976-; First Sec. Dresden County Cttee. of SED; Vaterländischer Verdienstorden in gold, Medaille für Waffenbrüderschaft in gold and other decorations. *Address:* 102 Berlin, Am Marx-Engels-Platz 2, German Democratic Republic.

KROLOW, Karl; German poet and essayist; b. 11 May 1915; ed. Univs. of Göttingen and Breslau; writer 1942-; mem. Deutsche Akad. für Sprache und Dichtung (Vice-Pres. 1966, 1975, Pres. 1972), Mainzer Akad. der Wissenschaften und der Literatur, Acad. of Fine Arts of Bavaria, PEN Club; Dr. hc. (Darmstadt) 1976; Georg Büchner Prize 1956, Grosser Niedersächsischer Kunstpreis 1965, Rainer-Maria-Rilke-Preis 1975; Grosses Bundesverdienstkreuz 1975. *Publications:* Poetry: Die Zeichen der Welt 1952, Wind und Zeit 1954, Tage und Nächte 1956, Fremde Körper 1959, Gedichte 1962, Unsichtbare Hände 1962, Gesammelte Gedichte 1965, Landschaften für mich 1965, Alltägliche Gedichte 1968, Nichts weiter als leben 1970, Zeitvergehen 1972; Essays: Poetisches Tagebuch 1966, Minuten-Aufzeichnungen 1968, Ein Land, das nicht gibt 1972, Ein Gedicht entsteht—Selbstdeutungen, Interpretationen, Aufsätze 1973; Trans.: Contemporary French Lyric Poetry 1957, Spanish Poems of the 20th Century 1962. *Address:* 61 Darmstadt, Rosenhöhe 5, Federal Republic of Germany.

KROMBHOLC, Jaroslav; Czech conductor; b. 30 Jan. 1918, Prague; ed. Conservatoire and Charles Univ., Prague; Guest Conductor, Prague National Theatre and Czech Philharmonic Orchestra 1940; mem. Board of Trustees, Prague Nat. Theatre Opera House 1945-49, Chief Conductor 1945-74, Conductor 1974; Conductor Prague Nat. Theatre 1949-62, First Conductor 1963-68, Opera Conductor 1974-; Head of Prague Nat. Theatre Opera 1968-70; Chief Conductor Czechoslovak Radio Symphony Orchestra, Prague 1973-; toured U.S.S.R. with Nat. Theatre 1955, visited Berlin 1956, Brussels 1958, staged Její pastorkyňa (Jenufa, Janáček), Vienna Opera 1947, Bartered Bride (Smetana), Budapest 1949, London 1967, Warsaw 1969, Catherine Ismailovna (Shostakovich) 1965, Katya Kabanová (Janáček), Naples 1968, The excursions of Mr. Brouček (Janáček), Vienna 1970, Katya Kabanová (Janáček), Geneva 1975; Guest Conductor in Romania, Bulgaria, Rio de Janeiro, Copenhagen, Vienna, Warsaw, Poznań, France, London; State Prize 1949, 1955; Honoured Artist 1958; Nat. Artist 1966, Order of the Republic 1978. *Address:* c/o National Theatre, Divadelní 6, Prague, Czechoslovakia.

KRONACKER, Baron Paul Georges, O.B.E., DR.SC.; Belgian Minister of State and industrialist; b. 5 Nov. 1897, Antwerp; s. of Leopold Kronacker and Marie-Laure Brunard; m. Mary Elisabeth Good 1948; two s. one d.; ed. Univ. of Brussels; Lieut.-Col. Reserve; served army 1915-19; Chair. and Dir. various industrial concerns, particularly in sugar industry; led Belgian Economic Mission in Netherlands 1939; enlisted again 1939; escaped to England 1940; missions abroad for Belgian Govt. (London) 1940-43; Mil. Attaché in London 1943-44; Senator for Louvain 1939-46; mem. House of Reps. 1946-68; successively Minister of Imports, Minister for Supplies 1944-47; Speaker, House of Reps. 1958-61; member Govt. Comm. for Peaceful Atomic Energy Devt.; fmr. Chair. Int. Sugar Council; Pres. of Belgian Del. at Int. Sugar Council; Chair. Nat. Permanent Comm. for Agricultural Industries (Brussels); Honorary Chair. Int. Commission for Agricultural Industries (Paris); mem. Control Comm. of Ecole Nationale Supérieure d'architecture et des arts visuels; mem. Board Les Amis des Musées Royaux des Beaux Arts de Belgique; awards include Grand Croix de l'Ordre de la Couronne, Grand Officier de l'Ordre de Léopold, Croix de Guerre (Belgium) 1914-18 and 1940-45, Officer of the Legion of Merit (Mil.) (U.S.A.), Commdr. de la Légion d'honneur (France), Officer Order of Orange Nassau (Holland), Officer Order of Merit (Hungary), Commdr. Orden Nacional de Mérito Carlos Manuel de Céspedes (Cuba), Gran Cruz, Placa de Plata Orden del Mérito Juan Pablo Duarte (Dominican Repub.), Grand Cross Order of Tadj (Iran), Gran Cruz Orden de San Martin (Argentina), Grand Cordon Order of the Trinity (Ethiopia), Grand Cross Order of the White Elephant (Thailand), Commdr. de l'Ordre national (Senegal), Grand Officier de l'Ordre du Ouissam Alaouite (Morocco). *Leisure interests:* music, painting, horse riding, tennis, shooting, yachting. *Address:* 54 St. Katelijnevest, B-2000 Antwerp (Office); Wolvenbosch, B-2080 Kapellen, Belgium (Home). *Telephone:* 33-59-40 (Office); 64-30-62 (Home).

KRONE, Heinrich; German politician; b. 1 Dec. 1895; fmr. Deputy Sec.-Gen. Catholic Centre Party; mem. Reichstag 1925-33; Editor Zeit im Querschnitt, until its suppression by Nazis; travelling salesman 1933-45; co-founder Caritas Notwerk (relief organization for victims of Nazism); under arrest 1944; helped found Christian Democratic Union in Berlin 1945, Deputy Chair. and mem. Presidium 1958-; mem. Bundestag 1949-69; Chair. Bundestag CDU 1955-61; Minister for Special Tasks 1961-64, Chancellor's Deputy in Defence Council of Fed. Repub. of Germany 1963-64, Chair. Federal Defence Council 1964-66; Minister for Special Affairs at the Chancellor's Office 1966. *Address:* 53 Bonn, Erftweg 28, Federal Republic of Germany.

KROON, Ciro Dominico; Netherlands politician; b. 31 Jan. 1916, Curaçao, Netherlands Antilles; s. of Eduard Bernardus Kroon and Catrijn Zimmerman; m. Edna Huis 1936; three s. one d.; ed. Higher Grade School; in business until 1942; Admin., Social and Econ. Dept., Netherlands Antilles 1942-51; mem. Legis. Council of Netherlands Antilles 1949-51; Dep. for Social and Econ. Affairs and mem. Admin. Board of island territory of Curaçao 1951-57; on various occasions Acting Gov. of Curaçao; Minister for Social and Econ. Affairs and Public Health, Netherlands Antilles 1957-68; Prime Minister of Netherlands Antilles Feb. 1968-May 1969; mem. Island Council of Curaçao 1971-73; Minister of Econ. Affairs 1973-75; Man. Dir. Banco Mercantil Venezolano N.V. 1976-; Commdr. Order of Orange-Nassau, Knight Order of Netherlands Lion, and Orders from Venezuela, Colombia and France. *Leisure interests:* sailing, fishing. *Address:* Banco Mercantil Venezolano N.V., Handelskade 4, Willemstad, Curaçao, Netherlands Antilles. *Telephone:* 11669, 11566, 11917.

KROPOTKIN, Pyotr Nikolayevich; Soviet geologist; b. 24 Nov. 1910, Moscow; ed. Moscow Geology Prospecting Inst.; Geology Engineer, East Siberia 1932-36; Research Assoc. Inst. of Geology U.S.S.R. Acad. of Sciences 1936-; Dr. Sc. (Geology and Mineralogy); Corresp. mem. U.S.S.R. Acad. of Sciences 1966-; Head of Tectonogeophysical Laboratory of Geological Inst. of U.S.S.R. Acad. of Sciences 1959-; Order of Red Star and other decorations. *Publications:* many articles on regional geology (Kazakhstan) and geotectonics. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

KROTKOV, Fyodor Grigoriyevich; Soviet hygiene specialist; b. 28 Feb. 1896, Mosolovo, Ryazan Region; s. of Grigory and Eufimia Krotkov; m. Irina Krotkova 1942; one s. one d.; ed. Military Medical Acad. Mem. CPSU 1919-; Army Service 1919-46; mem. U.S.S.R. Acad. of Medical Sciences 1944-; U.S.S.R. Deputy Minister of Health 1946-47; Academician-Sec. U.S.S.R. Acad. of Medical Sciences 1947-50; Head, Dept. of Hygiene, Cen. Inst. for Postgraduate Medical Training 1937-57, Prof. 1931-; Vice-Pres. U.S.S.R. Acad. of Medical Sciences 1953-57; Head, Dept. of Radiation Hygiene, Cen. Inst. for Postgraduate Medical Training 1957-; Chair. of Board of All-Union Scientific Soc. of Hygienists; mem. WHO Expert Cttee. on Radiation Hygiene; Order of Lenin 1943, 1945, 1966; Red Star 1935; Red Banner 1945, 1950; Badge of Honour 1939; Patriotic War, First Class 1945; Hero of Socialist Labour 1966; Order of October Revolution and other decorations. *Publications:* Over 150 works on mil. and gen. hygiene. nutritional hygiene and epidemiology. *Address:* 57/65 Novoslobodskaya Street, Ap. 40, Moscow 103055, U.S.S.R. *Telephone:* 251-81-88.

KRÖYER, Haraldur, M.A.; Icelandic diplomatist; b. 9 Jan. 1921, Akureyri; m.; four c.; ed. Akureyri Coll. and Univ. of California (Berkeley); joined foreign service 1945; Sec. Stockholm 1947-49, Oslo 1949-52, Paris 1952-54; Counsellor, Paris and Perm. Rep. to Council of Europe 1954-56; Sec. to Pres. of Iceland 1956-62; Counsellor, Moscow 1962-66; Deputy Perm. Rep. to UN 1966-69; Amb. to Sweden, Finland and Austria 1970-72; Perm. Rep. to UN 1972-73; Amb. to U.S.A., Canada, Cuba, Mexico and Brazil 1973-76; Perm. Rep. to Int. Orgs., Geneva and Amb. to Egypt, Kenya and Tanzania 1976-. *Address:* c/o Ministry of Foreign Affairs, Reykjavík, Iceland.

KRUCZEK, Władysław; Polish politician; b. 27 April 1910, Rzeszów; s. of Tomasz and Rozalia Kruczek; m. Irena Rusiecka; one s. one d.; ed. Party School of Polish United Workers' Party (PZPR); Mem. Communist Union of Polish Youth 1929, subsequently mem. CP of Poland; political imprisonment 1934-37; active in leadership of Int. Workers' Aid Org. 1939-41; army service and

prisoner-of-war 1942-44; Instructor, Polish Workers' Party (PPR) Cttee., Rzeszów; First Sec. PPR Town Cttee. Rzeszów 1947-48; First Sec. Polish United Workers' Party (PZPR) District Cttee. Rzeszów 1948-49; Sec. Voivodship Cttee. Poznań 1951-52; First Sec. Voivodship Cttee. PZPR Bydgoszcz 1952-56, Rzeszów 1956-71; mem. PZPR Cen. Cttee. 1954-, Politburo PZPR Cen. Cttee. 1968-; Deputy to Seym (Parliament) 1961-; Chair. Cen. Council of Trade Unions (CRZZ) 1971-; Presidium mem. All-Polish Cttee. of Nat. Unity Front 1971-; Vice-Chair. State Council March 1972-; Chair. Cttee. Nat. Health Protection Fund 1972-; Order of Builders of People's Poland, Order of Banner of Labour 2nd and 1st Class, Medal of 30th Anniversary of People's Poland, Partisan's Cross and other decorations. *Address:* Centralna Rada Związków Zawodowych, ul. Kopernika 36/40, 00-328 Warsaw, Poland.

KRUG, Helfried Viktor; German business executive; b. 9 Feb. 1913, Metz; s. of Erich Walter and Erna Gielen Krug; m. Johanna Verbeek 1937; two s. one d.; ed. salesmanship studies and language studies in England; entered Fa. Schering AG, Berlin 1935; travelled to India for Schering 1937; interned in Calcutta 1939-46; Head of Schering Offices in Hanover, later in Düsseldorf 1947-51; joined Glaswerke Ruhr, Essen-Karnap 1951, Gen. Man. of Ruhrglas 1954-59; mem. Man. Board, Feldmühle AG, Düsseldorf 1958-75, Deputy Chair. 1975-; mem. Advisory Board Dynamit Nobel AG, Troisdorf, Intercontinental Pulp Co., Vancouver (Canada), Hyltebruk Aktiebolag (Sweden), Neckermann Versand KGaA, Frankfurt/Main, VEBA-Glas AG, Essen; Deputy Chair. Advisory Board Papéteries de Belgique, Brussels; mem. Board of Dirs. Berliner Handelsgesellschaft-Frankfurter Bank, Frankfurt, Germanisches Nationalmuseum, Nürnberg and Int. Pulp Co. Ltd., Prince George, Canada. *Publication:* Glassammlung Helfried Krug. *Leisure interest:* collection of antique glass. *Address:* c/o Feldmühle AG, 4 Düsseldorf-Oberkassel, Fritz-Vomfelde-Platz 4, Federal Republic of Germany.

KRUGER, James Thomas, B.A., LL.B.; South African politician; b. 20 Dec. 1917, Orange Free State; ed. Univs. of S. Africa and Witwatersrand; Lecturer, Witwatersrand Technical Coll. 1948-52; Advocate, Supreme Court 1955-72; mem. Transvaal Provincial Council 1962-66, Del. to Conf. of Intellectual Property, Stockholm 1966; mem. of Parl. 1966-; Deputy Minister of Police, Interior and Social Welfare 1972-74; Minister of Justice, Police and Prisons 1974-79; Pres. of the Senate June 1979-; *Address:* 11 Bryntirion, Pretoria, South Africa (Home).

KRUIJTBOSCH, Egbert Diederik Jan, DR. ECON.; Netherlands international civil servant; s. of Dr. D. J. Kruijtbosch and C. G. Everts; m. Johanna Grietje Thomas; one d.; ed. Municipal Univ. of Amsterdam; mil. service, ending with rank of Lieut. 1948-51; Gen. Directorate for Programme of Econ. and Mil. Aid (later Gen. Directorate for European Co-operation) in Dept. of Foreign Affairs 1953-59; studied at Harvard Univ. and M.I.T. 1958; First Sec., later Commercial Counsellor at Netherlands Del. to OEEC (later OECD) 1960-64; Chair. of Alternates of OECD Steering Board for Trade, Chair. Working Group of Trade Cttee.; Co-ordinator of Medium-Term Planning at Cen. Planning Bureau (Netherlands) 1965-66; Chair. of a number of Working Cttees. for medium-term planning in several branches of industry; mem. of staff for econ. affairs and transport, Rijnmond (public authority), Rotterdam; travelled as Eisenhower Fellow in U.S.A. 1970; Sec. Scientific Council for Govt. Policy, Prime Minister's Office 1972-75; Sec.-Gen. Benelux Econ. Union, Brussels Sept. 1975-. *Publications:* co-author C.P.B. report The Netherlands Economy in 1970; paper Economically Feasible Physical Planning 1969; co-author Studies in Long-Term Development of the Port of Dublin 1971, Model of the Economic Structure of the Greater Rotterdam Region 1972, Long-Term Planning in the Netherlands 1974. *Leisure interests:* long distance skating, wild flowers, skiing, piano. *Address:* Rue de la Régence 39, 1000 Brussels, Belgium. 02/513-86-80.

KRUSE, Hans Jakob; German shipping executive; b. 9 Oct. 1929, Hohenhorst; m. Else Henriette (Kay) Korhammer; ed. grammar school and commercial training in Hamburg; sales rep. for a shipping agency in S. Germany 1952-53; man. of a shipping agency and stevedoring co. in Spain 1953-54; head of inland agency of a shipping line in Nuremberg 1955-59; man. of a shipbroking co. in Hamburg 1959-63; Owner's rep. in Australia of Hamburg-Amerika-Linie and North German Lloyd 1964-67; Board Sec., granted proxy of Hapag 1967; deputy mem. Board, responsible for world freight services, Hapag 1968, mem. Board 1969-73; Chair. Board, Hapag-Lloyd AG 1973-. *Leisure interests:* golf, bridge. *Address:* Auguststrasse 3, 2000 Hamburg 76; and Natenbergweg 20, 2105 Seevetal 1, Federal Republic of Germany. *Telephone:* 22-02-310 (Hamburg); (04105) 52-330 (Seevetal).

KRWAWICZ, Tadeusz Jan, M.D.; Polish ophthalmologist; b. 15 Jan. 1910, Lwów; s. of Jan and Michalina Jasińska Krwawicz; m. Zdzisława Hebal 1944; one s.; ed. Jan Kazimierz Univ., Lwów; Asst., Ophthalmology Clinic, Jan Kazimierz Univ., Lwów 1939; Dir. Ophthalmology Clinic, Medical Acad. Lublin 1948-, Asst. Prof. 1949-51, Extraordinary Prof. 1951-57, Ordinary Prof. 1957-; corresp. mem. Polish Acad. of Sciences 1967-; Pres. Polish Ophthalmological Socs. 1967-, mem. Soc. of Cryosurgery, Int. Coll. of Surgeons, French and British Ophthalmology socs.; originator of modern cryo-ophthalmology; Foreign mem. German Acad. of Natural Sciences (Leopoldina); Hon. mem. Polish Medical Alliance, Deutsche Ophthalmologische Gesellschaft, Scientific Ophthalmological Soc. of U.S.S.R., and others; Charter mem. Academia Internationalis Ophthalmologica 1975; Dr. h.c. Medical Acad.; Lublin 1975, Semmelweis Medical Univ. Budapest 1976, State Prize 1st Class 1966, Jurzykowski Foundation Award 1967, Special Award of Soc. of Cryosurgery 1968, Ignacio Barraquer y Barraquer Gold Medal 1970, Theodor Axenfeld's Prize 1972, Prix Mondial Nessim Habif (Univ. of Geneva) 1974, Gold Cross of Merit, Commdr. and Knight's Cross Order of Polonia Restituta, Order of Banner of Labour 1st Class. *Publications:* numerous articles in professional journals. *Leisure interests:* hunting, collecting paintings. *Address:* Medical Academy, Chmielna 1, 20-079, Lublin (Office); Ogrodowa 6, 20-075 Lublin, Poland (Home). *Telephone:* 21508.

KRYLOV, Aleksandr Petrovich, DR.TECH.SC.; Soviet mining engineer; b. 14 Aug. 1904, Tatevo village, Tver (now Kalinin) region; s. of Pyotr Lukich Krylov and Maria Aleksandrovna Krylova; m. Nina Nickolaevna Krylova 1933; ed. Leningrad Mining Inst.; engineer, oil fields in Azerbaijan 1926-30; Geological oil prospecting expedition in Donbass and Sakhalin 1930-32; Research worker, State Scientific Research Oil Inst. 1932-35; Scientific and teaching work, Moscow Gubkin Oil Inst. 1935-53; Research worker, All-Union Gas and Oil Inst. 1953-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-68, Academician 1968-; State Prize 1949, Lenin Prize 1962, Order of Lenin and other decorations. *Publications:* Scientific works in field of gas and oil deposit development. *Leisure interests:* reading belles-lettres, carpentry. *Address:* c/o U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow; 117 334 Moscow B-334, Vorobyev High Way 11, 32, U.S.S.R. (Home). *Telephone:* 137-88-23 (Home).

KU MU; Chinese politician. Mayor of Tsinan 1950-52; Deputy Sec. CCP Shanghai 1953-54; Vice-Chair. State Construction Comm. 1954-56, State Econ. Comm. 1956-65; Chair. State Capital Construction Comm. 1965-67; criticized and removed from office during Cultural Revolution 1967; Minister of State Capital Construction Comm. 1973-; Vice-Premier, State Council 1975-; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

KUAN CHUNG-TING; Chinese government official. Member, Standing Cttee., Chekiang Province CCP Cttee. 1978-; Commdr. Chekiang Mil. District 1978-. *Address:* People's Republic of China.

KUBADINSKI, Pencho; Bulgarian politician; b. 1918; ed. High School and Higher Party School; Young Communist League 1934-40, Communist Party 1940-; Local leader, later Central Cttee., Young Communist League 1945-51; First Sec. Rousse District Party Cttee. 1952-58; Sec. Central Cttee. of Communist Party 1958, Cand. mem. Political Bureau 1962, now mem.; Deputy Prime Minister 1962; mem. Nat. Assembly; Pres. Nat. Council, Fatherland Front 1974-; mem. State Council 1975-. *Address:* c/o Central Committee of the Communist Party, Sofia, Bulgaria.

KUBAR, Abd al-Majid (see Coobar, Abdulmegid).

KUBEL, (Gottfried Hermann) Alfred; German politician; b. 25 May 1909, Brunswick; s. of Hermann and Anna Jordan Kubel; two d.; ed. middle school, Brunswick; Minister-Pres. of Brunswick 1946; mem. Diet of Lower Saxony 1946-; Minister of Economy, Lower Saxony 1946, Labour, Building and Health 1948, Finance 1951, Transport and Economy 1957, Food, Agriculture and Forestry 1959, Finance 1964; Minister-Pres. of Lower Saxony 1970-76; Chair. Bundesrat 1974-75; Grosses Bundesverdienstkreuz mit Stern und Schulterband 1961, Grosskreuz des Verdienstordens der Bundesrepublik Deutschland 1971; Order of Orange-Nassau (Netherlands); Ernst Reuter Medal; Social Democrat. *Leisure interests:* nature, sport, history. *Address:* 3389 Braunlage, Am langen Bruch 6, Federal Republic of Germany. *Telephone:* 05520-2346.

KUBELIK, Rafael; Czechoslovak musician; b. 29 June 1914, Bychory; m. 1st Ludmila Bertlova (died 1961), one s.; m. 2nd Elsie Morison 1963; ed. Prague Conservatorium; Conductor, Czech Philharmonic Society, Prague 1936-39; Head of Opera, Brno 1939-41; Chief Conductor, Czech Philharmonic, Prague 1941-48; Musical Dir. Chicago Symphony Orchestra 1950-53; Musical Dir. Royal

Opera House, Covent Garden 1955-58; Chief Conductor Bayerischer Rundfunk, Munich 1961-; Musical Dir. Metropolitan Opera, N.Y. 1971-74; Guest Conductor, North and South America, Europe and Australia; tours and concerts with Vienna Philharmonic, Concertgebouw Orchestra, Amsterdam and Bavarian Radio Symphony Orchestra; Festivals at Edinburgh, Salzburg, Lucerne, Venice, Besançon, Montreux, Festival of Holland, etc. 1948-. *Compositions include:* 5 operas, 2 symphonies with chorus, 4 string quartets, 2 violin concertos, concerto for piano, concerto for violoncello, songs, piano, violin music, requiem Pro Memoria Uxoris and cantatas Pro Memoria Patris, Libera Nos. *Address:* Kastanienbaum, Haus im Sand, Switzerland.

KUBERSKI, Jerzy, M.A.; Polish politician and educator; b. 22 March 1930, Paschalin, Warsaw; s. of Wacław and Natalia Kuberski; m. Krystyna Kuberski 1951; one d.; ed. Pedagogical College and Warsaw Univ.; Active mem. youth organizations ZWM (Fighting Youth Union) 1946-48, and ZMP (Polish Youth Union) 1948-56; teacher in technical and teacher training schools, then Dir. Teachers' Coll.; School Superintendents' Office, Warsaw 1964-70; School Superintendent, Warsaw District 1965-70; Pres. Headquarters AZS (Students' Sports and Athletics Club); Sec. Warsaw Cttee. PZPR (Polish United Workers' Party) July 1970-March 1972; Deputy mem. Cen. Cttee. PZPR 1971-75, mem. Cen. Cttee. 1975-; Minister of Educ. and Pedagogy 1972-79; Order of Banner of Labour 2nd Class, Kt.'s Cross Order of Polonia Restituta, Gold Cross of Merit and others. *Leisure interest:* aeronautics. *Address:* c/o Ministerstwo Oświaty i Wychowania, Aleja I Armii Wojska Polskiego 25, 00-580 Warsaw, Poland.

KUBISCH, Jack B., A.B., J.D.; American diplomatist; b. 1921, Hannibal, Mo.; s. of Benjamin Harrison Kubisch and Beatrice Bloom; m. Constance Linn Rippe 1944; two s. two d.; ed. Cen. Methodist Coll., Univ. of Missouri and Harvard Graduate School of Business Admin.; entered U.S. Foreign Service 1947, served in various embassies in Europe, Latin America and Asia; served with rank of Minister in Brazil, Mexico, France; Asst. Sec. Dept. of State; Amb. to Greece 1974-77. *Address:* c/o Department of State, 2201 C Street, N.W., Washington, D.C. 20510, U.S.A.

KUBOTA, Yutaka, DR. C. E.; Japanese engineer and company director; b. 1890, Kumamoto Pref.; s. of Sunao and Mitsu Kubota; m. Toshiko Kataoka 1916; one s. two d.; ed. Tokyo Univ.; President and Dir. Nippon Koei Co. Ltd.; Chair. Japan Industrial Rehabilitation Engineering Assen.; Chair.-Dir. Yaku Island Electric Industrial Co. Ltd.; mem. Cttee. for Econ. Co-operation, Japanese Govt.; planned, designed and supervised Balu Chaung Hydro-Electric Project for Burmese Govt. 1954-, Da Nhim Hydro-electric Project for Vietnamese Govt. 1956, Kali Brantas Multipurpose Project for Indonesian Govt. 1961, Nam Ngum Multipurpose Project for UN 1958, Upper Se San Multipurpose Project in Viet-Nam for UN 1962, Karnali Hydro-electric Project in Nepal for UN 1958, Phang Rang Irrigation Project, Viet-Nam 1963, Sun Kosi Terai Plain Project for UNDP/FAO, Nepal 1967, Sempor Irrigation Project for ADB and Indonesian Govt. 1969, 1972-, Tiep Nhut Irrigation Project (Mekong) for IBRD 1972-, Andong Dam Project for Korean Govt. 1972-; consultant to ECAFE (Econ. Comm. for Asia and the Far East) for development of Mekong River 1951; Hon. Chair. Engineering Consulting Firms Assen. of Japan, Inc.; Hon. mem. Japan Soc. of Civil Engineers; mem. Japan Consulting Engs. Assen.; First Order of Sacred Treasure 1974; decorations from Khmer, Laotian and Vietnamese govts. *Publications:* The Fusenko Hydroelectric Power Plant (Tokyo World Power Conf.) 1929, Water Power Generation and Dam Building (in An Outline of Civil Engineering) 1940-45. *Leisure interest:* travelling. *Address:* 4, Kojimachi 5-chome, Chiyoda-ku, Tokyo, Japan. *Telephone:* Tokyo 263-2121.

KUBRICK, Stanley; American film writer, producer and director; b. 26 July 1928, New York; m. Suzanne Harlan 1958; three d.; ed. City Coll. of New York; staff photographer Look 1946-50; produced, directed and photographed documentaries for RKO (Day of the Fight, Flying Padre) 1951; has produced, written and directed feature films since 1952; New York Critics' Best Film award for Dr. Strangelove 1964, Best Dir. award 1971; Acad. Award (Oscar) for best special visual effects in 2001: A Space Odyssey 1968. *Feature films directed:* Fear and Desire (also wrote, photographed) 1953, Killer's Kiss (also wrote) 1955, The Killing (also wrote) 1956, Paths of Glory (also co-writer) 1958, Spartacus 1960, Lolita 1962, Dr. Strangelove (also wrote, produced) 1963, 2001: A Space Odyssey (also co-writer, producer) 1968, A Clockwork Orange (also wrote screen-play, produced) 1971, Barry Lyndon (also produced) 1975. *Address:* c/o Louis C. Blau, 9777 Wilshire Boulevard, Beverly Hills, Calif., U.S.A.

KUČERA, Bohuslav, JU.DR.; Czechoslovak politician; b. 26 March 1923, Lomnice; one d.; ed. Law Faculty. Charles Univ., Prague; Clerk, Velveta Nat. Enterprise, Varnsdorf 1948-49; Chief of Dept., Nopako Nat. Enterprise, Nová Paka 1949-50; Sec. of Club of Deputies of Czechoslovak Socialist Party 1950-54; Sec. of Presidium of Czechoslovak Socialist Party 1954-60, Gen. Sec. 1960-68; Chair. Socialist Party 1968-; Minister of Justice 1968-69; Minister without Portfolio of Fed. Govt. of Czechoslovak Socialist Repub. 1969-71; mem. Cen. Cttee. of Nat. Front; Deputy to Nat. Assembly 1960-69; Deputy, House of the People, Fed. Assembly 1969-, Vice-Chair., mem. Presidium, Fed. Assembly 1971-; Chair. Govt. Cttee. for Prosecution of Nazi war criminals 1968-; Deputy Chair. Legislative Council, Govt. of Č.S.S.R. 1969-72; Deputy Chair. Constitutional and Legal Cttee. of Nat. Assembly 1965-68; Deputy of Czech. Nat. Council 1968-71; mem. Presidium of Cen. Cttee. Nat. Front of Č.S.S.R. 1971-; Vice-Chair. Czechoslovak del. to Interparl. Union 1971-; Chair. Benelux Cttee., Czechoslovak Soc. for Int. Relations 1973-; Chair., Czechoslovak Cttee. for European Security and Co-operation 1977-; Distinction for Merits in Construction 1958, Order of Labour 1965, Order of Victorious February 1973, several other decorations. *Leisure interest:* literature. *Address:* Prague 10, Strašnice, Gutova 26, Czechoslovakia.

KUCHEL, Thomas; American lawyer and politician; b. 15 Aug. 1910; ed. Univ. of Southern California; practising lawyer 1935-46; State Legislator, California 1937-46; served U.S. Navy 1942-45; State Controller 1946-53; Republican Senator from California 1953-69; fmr. Asst. Republican leader, U.S. Senate; partner law firm of Wyman, Bautzer, Rothman and Kuchel 1969-; Del. to 29th UN Gen. Assembly 1974-75; Hon. doctorates Univ. of S. Calif., Chapman Coll., Calif., Univ. of the Pacific, Calif., Tufts Univ., Boston, Univ. of Calif.; mem. of Amer. Legion, Scottish Rite Masons, etc. *Address:* 600 New Hampshire Avenue, N.W., Washington, D.C. 20037; 2 Century Plaza, Los Angeles, Calif. 90067, U.S.A.

KÜÇÜK, Fazil, M.D.; Turkish Cypriot politician; b. 1906; ed. Istanbul and Lausanne Univs.; Owner and Editor Halkin Sesi (daily) 1941-60; Leader, Cyprus Turkish National Union Party 1943-; Chair. Evcaf High Council 1956-60; Vice-Pres. Cyprus Aug. 1960-Feb. 1973. *Address:* P.O. Box 339, Nicosia, Cyprus.

KUCZYNSKI, Jürgen, DR.PHIL.; German economist; b. 17 Sept. 1904, Elberfeld; s. of R. R. Kuczynski; m. Marguerite Steinfeld 1928; two s. one d.; ed. Berlin, Erlangen and Heidelberg Univs., and in U.S.A.; Mem. KPD 1930-; mem. Information Section KPD 1933-35; emigrated to England 1936-45; mem. SED 1946; Emeritus Prof. of Econ. History, Humboldt Univ., Berlin; mem. Acad. of Sciences, U.S.S.R.; mem. Deutsche Akad. der Wissenschaften 1955; Chair. Nat. Cttee. of Economic History, Acad. of Sciences; Fellow, Royal Statistical Soc.; Nat. Prize; Dr. h.c. rer. oec., Dr. h.c. rer. nat. *Publications:* A History of Labour Conditions (40 vols.), Studies in the History of Social Sciences (10 vols.). *Leisure interest:* low-brow detective stories. *Address:* Parkstrasse 94, 112 Berlin, German Democratic Republic. *Telephone:* 5650990.

KUDRIAVTSEV, Sergey Mikhailovich; Soviet diplomatist; b. 15 April 1915, Moscow; ed. Moscow Foreign Languages Inst.; Tass Corresp. in Berlin 1940-41; Diplomatic Service, mem. Staff Soviet Diplomatic Representations in Canada, U.K., Austria, Fed. Repub. of Germany, France; Amb. to Cuba 1960-62; participated in numerous int. confs. and meetings; Amb. to Cambodia 1968-72; mem. staff Ministry of Foreign Affairs 1972-. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya Sennaya Ploschad, Moscow, U.S.S.R.

KUDSI, Nazem el, PH.D.; Syrian former Head of State; b. 1906; ed. American Coll., Beirut, Damascus Univ. and Univ. of Geneva; Barrister in Aleppo 1930; Deputy for Aleppo 1936, 1947, 1955; Minister Plenipotentiary, Washington 1944-45; Prime Minister and Minister for Foreign Affairs 1950; Pres. Council of Ministers 1954-57; Leader, Populist Party; held no political office during United Arab Repub. regime 1958-61; Pres. of the Syrian Arab Repub. 1961-63, retd. 1963. *Address:* Aleppo, Syria.

KUFFLER, Stephen William, M.D.; American (naturalized 1954) professor of neurobiology; b. 24 Aug. 1913, Tap, Hungary; s. of William and Elizabeth Kuffler; m. Phyllis Shewcroft 1943; two s. two d.; ed. Univ. of Vienna; staff Kanematsu Inst., Sydney (Australia) Hospital 1938-45; N.R.C. Fellow, Australia 1943-45; Seymour Coman Fellow, Dept. of Physiology, Univ. of Chicago 1945-47; Assoc. Prof. of Ophthalmology, Wilmer Inst., Johns Hopkins Univ. 1947-56, Prof. of Ophthalmic Physiology and Biophysics 1956-59; Prof. of Neurophysiology and Neuropharmacology, Harvard Medical School 1959-64, Robert Winthrop Prof. of Neurophysiology 1964-66, Robert Winthrop Prof. of Neurobiology and Chair. of Dept. 1966-76, John Franklin Enders Univ. Prof. 1974-;

Editor Journal of Neurophysiology; non-resident Fellow, Salk Inst., La Jolla, Calif. 1966-; Trustee, Marine Biological Labs., Woods Hole, Mass.; Harvey Lecturer 1959, Ferrier Lecturer, Royal Soc. (London) 1965; Guggenheim Fellow 1956; Silliman Mem. Lecturer Yale Univ. 1971, Sherrington Lecturer 1972; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Physiological Soc., Physiological Soc. (U.K.); Foreign mem. Royal Soc. 1971, Royal Danish Acad. of Sciences and Letters, Austrian Acad. of Sciences; Hon. M.A. (Harvard), Hon. M.D. (Berne), Hon. Sc.D. (Yale, Washington Univ., St. Louis, Univ. of London); many awards. *Publications:* Articles in professional journals on nervous system studies, From Neuron to Brain (with J. G. Nicholls) 1976. *Leisure interests:* skiing, tennis, walking, reading. *Address:* Department of Neurobiology, Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115, U.S.A. *Telephone:* (617) 732-1770.

KÜHN, Heinz; German politician; b. 18 Feb. 1912, Cologne; ed. Univs. of Cologne, Prague and Ghent; mem. Catholic Youth Movement "Neudeutschland", Socialist Youth Movement of Germany 1928; mem. Socialist Party (SPD) 1930; Chair. of Socialist Student Group, Cologne; political emigration and studies at Univs. of Prague and Ghent 1933; journalist and editor-in-chief Rheinische Zeitung 1949-51; mem. Landtag, North Rhine-Westphalia 1948-54. 1962, Chair. SPD Parl. Party 1962-66, Minister-Pres. of North Rhine-Westphalia 1966-78; mem. Bundestag, mem. SPD Parl. Management Cttee., Bundestag Foreign Affairs Comm. and Chair. Bundestag Comm. on German Schools and Insts. Abroad 1953-62; mem. Assembly, Western European Union; Chair. Bundesrat 1971-72; Chair. SPD North Rhine-Westphalia 1962-73; mem. Presidium SPD 1966, Deputy Chair. 1973. *Address:* 5 Köln-Dellbrück, Roteichenweg 5, Federal Republic of Germany.

KUHN DE CHIZELLE, Bernard; French engineer (retd.); b. 11 Aug. 1897; ed. Lycée d'Amiens and Ecole nationale supérieure d'électro-technique et d'hydraulique, Grenoble; Engineer, Thomson-Houston Co. 1921-25; Dir. of Var and Alpes-Maritime Industrial Energy System 1926-35; Dir. Heat and Light Soc., Grenoble 1935-44; Dir.-Gen. Gaz du Lyon 1944, Dir. of Mixed Distribution, Electricité de France, Gaz de France 1954, Dir.-Gen. Gaz de France 1959-64, Hon. Dir.-Gen. 1964-; Hon. Pres. d'Etudes et de Réalisations de Cybernétique Industrielle (CERCI); mem. du Conseil économique et social 1964-69; Officier, Légion d'Honneur and several other awards. *Address:* 8 avenue de New York, 75116 Paris, France.

KUHNKE, Hans-Helmut, DR. JUR.; German business executive; b. 21 Sept. 1907, Heydekrug; m. Ingeborg Clemens 1935; two s. one d.; Man. Dir. Hanseatische Vertriebs-Gesellschaft für Industrieerzeugnisse, Hamburg; Chair. Supervisory Board, Varta AG, Bad Homburg, Th. Goldschmidt AG, Essen; Deputy Chair. Supervisory Board, Bayerische Vereinsbank, Munich; mem. Supervisory Board, Bergbau AG, Niederrhein; Pres. Ranke-Gesellschaft e.V., Hamburg; Adviser, Allianz-Versicherungs AG, Munich, Allianz-Lebensversicherungs AG, Munich, Deutsche Bank AG; Chair. Stiftverband für die Deutsche Wissenschaft, Essen; Chair. Board of Trustees, Freiherr-vom-Stein Preis Stiftung; mem. Board of Trustees, Robert-Bosch-Stiftung, Deutsche Gesellschaft zur Förderung des industriellen Führungsnachwuchses; Hon. mem. Gesamtverband des Deutschen Steinkohlenbergbaus; Grosses Bundesverdienstkreuz mit Stern. *Address:* 4320 Hattingen (Ruhr) 15, Elfringhauser Str. 140, Hyggehof, Federal Republic of Germany.

KUIPERS, J. D., M.A., D.SC.; Netherlands administrator; b. 9 July 1918, Timperley, England; s. of Johannes and Marion Sewell Kuipers; m. Johanna Adriana de Roon 1940; three s.; ed. Univ. of Cambridge, London School of Econs. and Univ. of Amsterdam; served Royal Netherlands Army 1940-45; Div. Royal De Betuwe Co. 1945-65; Vice-Pres. Fed. of Netherlands Industry, Brussels 1970-75; Chair. Foreign Affairs Cttee., Council of Netherlands Industrial Feds., Brussels 1970-75; Prof., Strathclyde Univ. Business School 1974-; mem. Econ. and Social Cttee. of EEC 1962-70, Pres. 1970-72; mem. Pres. Council, Union of Industrial Feds. of EEC 1964-75, Council of Business and Advisory Cttee. to OECD; Hon. LL.D. (Strathclyde) 1974; Knight Order of Netherlands Lion, Officer Order of Orange Nassau, Commdr. Order Léopold II, Order Georges I, Order of Merit (Italy). *Publication:* Resale Maintenance in Great Britain 1951. *Leisure interests:* arts, history. *Address:* Creigiog Mill, Llanarmon-yn-Ial, Mold, Clwyd, Wales; Los Algarrobos PU 106, Javea, Alicante, Spain. (Homes).

KUŁAGA, Eugeniusz, M.A.; Polish diplomatist; b. 1 Nov. 1925, Auby, France; s. of Michał and Karolina Kułaga; m. Haria Hamerlak 1953; two d.; ed. Central School for Foreign Service, Warsaw; Second, then First Sec., Perm. Del. of Poland to UN 1952-55; Deputy Rep. ICSC, Vietnam 1955; Act. Rep., Laos 1956; Head, UN Div. Min. of Foreign Affairs, Warsaw 1956-59; Deputy Rep. of Poland to UN, Geneva 1959-62; Amb. of Poland to Ghana, Mali, Dahomey, Sierra Leone 1962-65; Dir. of Dept. of Int. Orgs., Min. of Foreign Affairs, Warsaw 1965-69; Del. of Poland to several UN Gen. Assemblies; Perm. Rep. to UN 1969-75; Chair. Special Political Cttee. of Gen. Assembly 1969; Rep. UN Security Council 1970-71; Vice-Chair. Special Cttee. on Rationalization of Procedure and Organization of Gen. Assembly 1970-71; Vice-Chair. Special Cttee. on the Financial Situation of the UN 1972; Chair. UN Comm. on Human Rights 1972-75; Rep. Int. Comm. of Control and Supervision (ICCS) 1973-74; Vice-Chair. Ad-Hoc Cttee. on the World Disarmament Conf. 1974-75; Under-Sec. of State, Ministry of Foreign Affairs 1975-; Chair. UN European Econ. Comm. 1978-; Gold Cross of Merit 1954, Medal of 10th Anniversary of People's Poland 1954, Officer's and Kt.'s Cross, Order of Polonia Restituta 1969, Medal of 30th Anniversary of People's Poland 1974. *Address:* c/o Ministerstwo Spraw Zagranicznych, Al. I Armii Wojska Polskiego 23, 00-580, Warsaw, Poland.

KULARATNAM, Karthigesapillai, M.A., PH.D., DR.SC.; Ceylonese educationist, geographer and geologist; b. 28 May 1911; m. Poospadevi Kularatnam; Prof. Emer. and Dean, Univ. of Sri Lanka; taught in Univs. of Edinburgh, Sheffield, Birmingham, New York, Kansas City and Sir George Williams (Montreal); Pres. Inst. of Environmental Sciences; Dir. Commonwealth Geographical Bureau, Inst. of Population Engineering; Senior Consultant, UN/ESCAP; Pres. Ceylon Geographical Soc., Gemmologists Assn., Soil Conservation Soc.; Past Pres. of Natural Sciences, Ceylon Assn. for the Advancement of Science; Corresp. mem. World Fed. of Scientific Workers. *Publications:* several essays on geography, geology, Sri Lanka, etc. *Address:* 61 Abdul Caffoor Mawatha, Colombo 3, Sri Lanka.

KULICHENKO, Leonid Sergeyevich; Soviet politician; b. 1913; ed. Volgograd Inst. of Mechanics and CPSU Higher Party School; Teacher 1936-42; mem. CPSU 1940-; party and local govt. official, Volgograd Region 1942-61; Chair. Volgograd Soviet of Working People's Deputies 1962-65; First Sec. Volgograd Regional Cttee. of CPSU 1965-; mem. Central Cttee. of CPSU 1966-; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. Industry Comm. Soviet of Union. *Address:* c/o Volgograd Regional Committee of CPSU, Volgograd, U.S.S.R.

KULIKOV, Marshal Viktor Georgiyevich; Soviet army officer; b. 5 July 1921; ed. Frunze Military Acad., Acad. of General Staff; joined Soviet Army 1938; Commdr. of Platoon 1940, Chief of Staff tank battalion, regt., brigade 1941-45; various command posts in tank detachments 1945-48; Frunze Mil. Acad. 1948-53; Commdr. tank regt., Chief of Staff tank div., Deputy Commdr. of Army, Commdr. of Army 1953-67; Commdr. Kiev Mil. Area 1967-69; C.-in-C. Soviet Forces in Germany 1969-71; mem. CPSU 1942-; mem. Cen. Cttee. of CPSU April 1971-; Chief of Gen. Staff and First Deputy Minister of Defence 1971-77; C.-in-C. of Armed Forces of Warsaw Pact Jan. 1977-; Order of Lenin, Order of the Red Banner (three times) and other decorations. *Address:* c/o Ministry of Defence, 34 Naberezhnaya M. Thoreza, Moscow, U.S.S.R.

KUMAGAI, Tasaburo; Japanese politician; ed. Kyoto Univ.; Mem. of House of Councillors; fmr. Mayor of Kyoto; fmr. Parl. Deputy Minister of Int. Trade; fmr. Chair. House of Councillors Cabinet Cttee. on Revision of the Public Offices Election Law; Dir.-Gen. Science and Tech. Agency 1977-78; Liberal-Democratic Party. *Address:* Science and Technology Agency, 2 Kasumigaseki 2-chome, Chiyoda-ku, Tokyo, Japan.

KUMARASURIAR, Chelliah, B.SC.(ENG.), D.I.C., M.I.C.E., M.I.E.C.; Ceylonese chartered engineer and politician; b. 8 Aug. 1926, Taiping, Malaysia; m. Mandaleswari Kumarasuriar 1951; two s. three d.; ed. Univ. of Colombo and Imperial Coll., London; Lecturer, Univ. of Ceylon 1950; Research and Devt. Engineer, Health Dept., Ceylon until 1960; Factory Dir. Glaxo-Allenbury's (Ceylon) Ltd.; Visiting Lecturer, Univ. of Ceylon; mem. Parl.; Minister of Posts and Telecommunications 1970-76; numerous honours and awards; Sri Lanka Freedom Party. *Publications:* articles in specialist journals. *Leisure interests:* oriental classical music, English literature, political research. *Address:* Ministry of Posts and Telecommunications, Colombo; 4/1 Ramakrishna Road, Colombo 6, Sri Lanka. (Home). *Telephone:* 29567 (Office); 83310 (Home).

KUNAYEV, Dinmohammed Akhmedovich; Soviet (Kazakh) politician and mining engineer; b. 12 Jan. 1912; ed. Moscow Inst. of Non-Ferrous Metals; Former Dir. Kounrad Mine, Kazakh S.S.R.; Vice-Chair. Council of Ministers Kazakh S.S.R. 1942-52, Chair. 1955-60, 1962-64; First Sec. Kazakh Communist Party 1960-62, 1964-; Cand. mem. Politburo Cen. Cttee. of CPSU April 1966-April 1971, mem. April 1971-; Deputy to Supreme Soviet of the U.S.S.R.

(1950-) and Supreme Soviet of the Kazakh S.S.R.; mem. Presidium of Supreme Soviet of U.S.S.R. 1962-; mem. CPSU Cen. Cttee. 1956-; Acad. of Sciences of the Kazakh S.S.R. 1952-55; Hero of Socialist Labour, Order of Lenin, (three times) Hammer and Sickle Gold Medal, Sixty Years of Armed Forces of U.S.S.R. Medal and other decorations. *Address:* Central Committee of Communist Party of the Kazakh S.S.R., Alma-Ata, Kazakh S.S.R., U.S.S.R.

KUNCEWICZOWA, Maria; Polish writer; b. 30 Oct. 1899, Samara, Russia; d. of Jozef and Adela Szczepanski; m. Jerzy Kuncewicz 1921; one s.; ed. Warsaw Univ., Jagellonian Univ., Cracow, and Univ. of Nancy; Mem. Int. PEN Club; lived in France during World War II, in U.K. until 1956; Founder, Centre Writers in Exile; Prof. Polish Literature, Univ. of Chicago 1962-70; Literary Prize of Warsaw 1937, Pietrzak Prize 1966, State Prize 1st Class 1974; Medal of Merit (Kosciuszko Foundation, N.Y.) 1972. *Publications:* Przymierz ▪ dzieckiem (Alliance with ▪ Child), Twarz mężczyzny (Face of Man) (trans. into French, Slovak and Italian), Miłość Panieńska (Maiden Love), Dwa Księżyce (Two Moons), Dyliżans Warszawski (Warsaw Stage-Coach), Cudzoziemka (The Stranger) (trans. into Czech, French, Italian, Dutch, Estonian, English, Spanish, Finnish, German, Swedish, Romanian, Slovak), Dni Powszednie Państwa Kowalskich (Everyday), Miasto Heroda (Herod's Town), Klucze (The Keys) (trans. into English, French, Czech), Zmowa Nieobecnych (The Conspiracy of the Absent) (trans. into English) 1950, Leśnik (The Forester) (trans. into English, Italian) 1954, Dziękuje ci ▪ różę (Thank you for the Rose) 1955 (play), W Domu i w Polsce (At Home and in Poland) 1958, Odkrycie Patusanu (The Discovery of Patusan) 1959, Gaj oliwny (also written in English as The Olive Grove) 1961, The Modern Polish Mind (anthology) 1962, Don Kichote i niańki (Don Quixote and Nurses) 1966, Tristan (also written in English) (trans. into Slovak, German, Czech, Romanian) 1967; Fantomy (Phantoms), Vol. I 1971, Natura, Vol. II 1974 (two vol. autobiography), Dwaksiezyce (trans. into Swedish), Cudzoziemka (trans. into Hungarian), Tristan (trans. into Russian), Fantasia alla Polacca (essay) 1979. *Address:* Kazimierz Dolny, ul. Małachowskiego, Poland; c/o Witold Kuncewicz, Flint Hill, Virginia, 22627 U.S.A. *Telephone:* 102.

KUNDERA, Milan; Czechoslovak writer; b. 1 April 1929, Brno; m. Věra Hrabánková 1963; ed. Film Faculty, Acad. of Music and Dramatic Arts, Prague; Asst., later Asst. Prof., Film Faculty, Acad. of Music and Dramatic Arts, Prague 1952-70; Prof., Univ. of Rennes 1975-; mem. Cen. Cttee. Union of Czechoslovak Writers 1956-70, mem. Presidium of Cen. Cttee. 1963-67; mem. Editorial Board Literární noviny 1956-59, 1963-67, 1968; mem. Editorial Board Listy 1968-69; Czechoslovak Writers' Publishing House Prize 1961; Klement Gottwald State Prize 1963; Union of Czechoslovak Writers' Prize 1968, Czechoslovak Writers' Publishing House Prize 1969, Prix Médicis (for La Vie est ailleurs) 1973, Premio letterario Mondello (for The Farewell Party) 1978. *Publications:* Poetry: Man a Broad Garden 1953, The Last May 1955, Monologues 1957; Drama: The Owners of the Keys 1962 (produced in Federal Germany, U.S.S.R., Hungary, Bulgaria, Uruguay, U.K., France, U.S.A., Finland, and Switzerland), Deux oreilles deux mariages 1969; Short stories: Ridiculous Loves 1963, The Second Book of Ridiculous Loves 1965, The Third Book of Ridiculous Loves 1969, Laughable Loves 1970; Novels: The Joke 1967, Life is Elsewhere 1973, La Valse aux adieux (The Farewell Party) 1976, Livre du rire et de l'oubli (The Book of Laughter and Oblivion) 1979. *Address:* Université de Rennes, 6 avenue Gaston Berger, 35043 Rennes, France.

KUNERALP, Zeki; Turkish diplomatist; b. 5 Oct. 1914, Istanbul; m. Necla Ozdilci 1943; two s.; ed. Univ. of Berne; entered Diplomatic Service 1940, served Bucharest 1943-47, Ankara (Ministry of Foreign Affairs) 1947-49, Prague 1949-52, NATO (Paris) 1952-57; Asst. Sec.-Gen. Ministry of Foreign Affairs 1957, Sec.-Gen. 1960; Ambassador to Switzerland 1960, to U.K. 1964-66; Sec.-Gen. Min. of Foreign Affairs 1966-69; Amb. to U.K. 1969-72, to Spain 1972-; Hon. G.C.V.O. 1971. *Address:* Embassy of Turkey, Monte Esquinza 48, Madrid, Spain; Fenerbahce Caddesi 85/B, Belvü Ap. D. 4, Kiziltoprak, Istanbul, Turkey.

KUNG HSIN-YEH; Chinese army officer; Commdr., East Sinkiang Mil. District 1979-. *Address:* People's Republic of China.

KÜNG, Hans, D.THEOL.; Swiss theologian and univ. professor; b. 19 March 1928, Sursee, Lucerne; ed. Gregorian Univ., Rome, Inst. Catholique and Sorbonne, Paris; ordained priest 1954; mem. practical ministry, Lucerne Cathedral 1957-59; Scientific asst. for Dogmatic Catholic Theol., Univ. of Münster/Westfalen 1959-60; Prof. Fundamental Theol., Univ. of Tübingen 1963-; Prof. of Dogmatics, Dir., Inst. Ecumenical Research 1963-; Hon. LL.D. (St. Louis), Hon. D.D. (Pacific School of Religion, Berkeley, Univ. Glasgow), Hon. H.L.D. (Chicago). *Publications:* The Council: Reform and Reunion 1962, That the World May Believe 1963, The Council in Action 1963, Justification: The Doctrine of Karl Barth and ▪ Catholic Reflection 1964, Structures of the Church 1964, Freedom Today 1966, The Church 1967, Truthfulness 1968, Menschwerdung Gottes 1970, Infallible?—An Inquiry 1971, Why Priests? 1972, Fehlbar?—Eine Bilanz 1973, On being ▪ Christian 1976; ed. Journal of Ecumenical Studies, Theologische Quartalschrift, Revue Internationale de Théologie Concilium, Theological Meditations, Ökumenische Forschungen, Does God Exist? 1979. *Leisure interests:* watersport, skiing, classical music. *Address:* 74 Tübingen, Waldhäuserstr. 23, Federal Republic of Germany. *Telephone:* 62646.

KUNIHIKO, Sasaki; Japanese banker; b. 20 Dec. 1908, Formosa; s. of Mikisaburo and Matsuko Sasaki; m. Shizue Shigemura 1937; three c.; ed. Tokyo Univ.; Man. Planning and Co-ordination Dept., Head Office Business Div., Yasuda Bank 1947-48; Man. Planning and Co-ordination Dept., Head Office Business Div. Fuji Bank 1948-49, Man. Credit Dept. 1949-50, Deputy Man. Osaka Branch 1950-51, Chief Man. Foreign Div. 1951-54, Dir. 1954-57, Man. Dir. 1957-63, Deputy Pres. 1963-71, Chair. of Board, Pres. 1971-75, Dir. and Hon. Chair. 1975-. *Leisure interest:* reading. *Address:* The Fuji Bank Ltd., 1-chome, Otemachi, Chiyoda-ku, Tokyo (Office); 18-10, 6-chome, Matsubara, Setagayaku, Tokyo, Japan (Home).

KUNITZ, Stanley J., M.A.; American writer and educator; b. 29 July 1905, Worcester, Mass.; s. of Solomon Z. Kunitz and Yetta Helen Jasspon; m. 1st Helen Pearce 1930, 2nd Eleanor Evans 1939, 3rd Elise Asher 1958; one d.; ed. Harvard Univ.; Editor Wilson Library Bulletin 1928-42; service with U.S. Army, rising to rank of Staff Sergeant 1943-45; Prof. of Literature, Bennington Coll., Vt. 1946-49; Dir. of Seminar, Potsdam Summer Workshop in Creative Arts 1949-53; Lecturer and Dir. of Poetry Workshop, New School for Social Research, New York 1950-58; Dir. Poetry Workshop, The Poetry Center, New York, 1958-62; Lecturer, Columbia Univ. 1963-66; Adjunct Prof. School of the Arts (Columbia) 1967-; Senior Fellow in the Humanities (Princeton) 1978; Editor, Yale Series of Younger Poets, Yale Univ. Press 1969-77; Poetry Consultant of the Library of Congress 1974-76; mem. American Acad. of Arts and Letters, Nat. Inst. of Arts and Letters; awards include Garrison Medal for Poetry 1926, Blumenthal Prize 1941, Levinson Prize 1956, Harriet Monroe Award 1958, Pulitzer Prize for Poetry 1959, Brandeis Creative Arts Poetry Medal 1965; Hon. Litt.D. (Clark Univ.) 1961, (Anna Maria College) 1977; Fellowship Award, Acad. of American Poets 1968; Fellow, Yale Univ. 1969; Chancellor, Acad. of American Poets 1970. *Publications* (Verse): Intellectual Things 1930, Passport to the War 1944, Selected Poems 1958; Editions: Living Authors 1931, Authors Today and Yesterday 1933, Junior Book of Authors 1934, British Authors of the XIX Century 1936, American Authors 1600-1900 1938, XX Century Authors 1942, British Authors Before 1800 1952, XX Century Authors (First Supplement) 1955, Poems of John Keats 1964, European Authors 1000-1900 1967, The Testing-Tree (verse) 1971, Poems of Akhmatova (translations) 1973, The Terrible Threshold (verse) 1974, Story under Full Sail (trans. of A. Voznesensky) 1974, A Kind of Order, a Kind of Folly 1975, The Coat Without a Seam (verse) 1974, Orchard Lamps (trans. of Ivan Drach) 1978, The Poems of Stanley Kunitz 1928-1978, 1979. *Address:* 37 West 12th Street, New York, N.Y. 10011, U.S.A.

KUNZ, Erich; Austrian opera singer; b. 20 May 1909; ed. High School for Music, Vienna; with Staatsoper, Vienna 1941-; Mozart Medal, Verdienstkreuz 1st Class for Arts and Sciences; Hon. mem. Vienna State Opera; Gold Medal of Honour for services to Vienna. *Address:* Grinzingerstrasse 35, 1190 Vienna, Austria. *Telephone:* 32-22-01.

KUNZE, Emil, DR.PHIL.; German archaeologist; b. 18 Dec. 1901, Dresden; m. Athena Drinis 1931; two s. one d.; ed. Univs. of Vienna and Leipzig; Studentship, German Archaeological Inst. 1926-29; Asst., German Archaeological Inst., Athens 1929-33; Studentship, Prussian Acad., Berlin 1933-35; Asst., Museum of Casts of Classical Sculpture, Munich 1935-37; Lecturer, Univ. of Marburg 1936-37, Munich 1937-42; Field Dir. Olympia Excavation 1937-42, 1952-72; Prof. of Classical Archaeology, Univ. of Strasbourg 1942-45, Univ. of Munich 1946-51, Hon. Prof. 1971-; Dir. German Archaeological Inst., Athens 1951-67; mem. German and Austrian Archaeological Insts.; mem. Bavarian Acad.; Corresp. mem. Acad. of Göttingen, Royal Acad. of Sciences, Copenhagen, Accademia Nazionale dei Lincei, Rome, British Acad., London; Hon. mem. Soc. of Hellenic Studies, London, Hellenic Archaeological Soc., Athens; Federal German Order of Merit; Dr.phil. h.c. (Thessalonika). *Publications:* Kretische Bronzereliefs 1931, Orchomenos II and III 1931, 1934, Zeus und Ganymedes 1940, Archaische Schildbänder 1951, Berichte über die Ausgrabungen in Olympia (Vol. II seq.) 1938-, Drei Bronzen

der Slg. H. Stathatos 1953. *Leisure interest:* music. *Address:* 8021 Grosshesselohe bei München, Immergrünstrasse 1, Federal Republic of Germany. *Telephone:* Munich 796244.

KUNZE, Horst, DR. PHIL.; German librarian; b. 22 Sept. 1909, Dresden; m. 1941; two s. two d.; ed. Sächsische Landesbibliothek, Dresden and Deutsche Bücherei, Leipzig; Research Librarian, Landesbibliothek, Darmstadt 1939-47; Dir. Universitäts-und Landesbibliothek Sachsen-Anhalt, Halle 1947-50; Gen. Dir. Deutsche Staatsbibliothek 1950-76; Dir. Inst. of Library Science and Scientific Information, Humboldt-Univ. Berlin 1955-68; Full Prof. of Library Science, Univ. of Berlin 1954-75; Chair. Arbeitsgemeinschaft für das Kinder- und Jugendbuch 1959-75; Pres. Deutscher Bibliotheksverband 1964-68. *Publications:* Lieblingsbücher von dazumal 1938 (reprint 1965), Wissenschaftliches Arbeiten (2nd edn.) 1959, Gelesen und geliebt (2nd edn.) 1963, Über das Registermachen 1964 (3rd edn. 1968), Willst Du Bibliothekar werden? (2nd edn.) 1965, Dunkel war's, der Mond schien helle (7th edn.) 1964, Schatzbehalter vom Besten aus der älteren deutschen Kinderliteratur (5th edn. 1976), Werner Klemkes gesammelte Werke 1968 (3rd edn. 1977), Lexikon des Bibliothekwesens (editor with G. Rückl) 1969 (2nd edn. 2 vols.) 1974-75, Bibliophilie im Sozialismus 1969, Spass muss sein 1972, Alles fur das Buch (coll. papers, 2nd ed.), Geschichte der Buchillustration in Deutschland. Das 15. Jahrhundert (2 vols.) 1975, Grundzüge der Bibliothekslehre (4th edn.) 1977; National Prize and other decorations. *Leisure interest:* books. *Address:* Regatta-Strasse 246, 118 Berlin-Grünau, German Democratic Republic. *Telephone:* 6714809.

KUNZRU, Pandit Hriday Nath, B.A., B.SC., LL.D.; Indian politician; b. 1887, Delhi; s. of Pandit Ajudhiya Nath; ed. Allahabad Univ. and London School of Economics and Political Science; joined Servants of India Society (national missionaries pledged to devote their lives to the service of India) 1909, Life Pres. 1936-; Legislative Council U.P. 1921-23, and mem. Indian Legislative Assembly 1927-30, Council of State 1937-46, Constituent Assembly 1946-50, Provisional Parl. 1950-52, Upper House, Indian Parl. 1952-62; Leader Indian Del. Inter-Parliamentary Union 1956-61; Pres. East African Nat. Congress 1929; Pres. Nat. Liberal Fed. 1934; mem. Defence Consultative Cttee. 1942-46; Leader, Govt. of India's del. to South Africa 1950; visited numerous countries to study condition of Indians settled there; mem. of Govt. of India's Del. to Malaya 1946; Gen. Sec. All India Seva Samiti, Allahabad; Chair. Nat. Cadet Corps Cttee. 1946-47; mem. Armed Forces Reorganization Cttee. 1946-47; Nat. Commr. Bharat Scouts and Guides 1950-55, 1961-63, of State Re-organization Comm. 1953-55, Univ. Grants Comm. 1953-66; Pres. Indian Council of World Affairs 1948-; Chair. Indian School of Int. Studies 1955-70; mem. Exec. Council Banaras Hindu Univ. 1958-65, 1968-71; Trustee, India Int. Centre 1960-; Chair. of Railway Accidents Inquiry Cttee. 1961-63; Pres. Indian Assen. for Advancement of Urdu 1962-72; Vice-Pres. Indian Council for Cultural Relations 1966-; Chair. Railways Study Team of Admin. Reform Comm. 1967-69; mem. Exec. Council Delhi Univ. 1968, Agra Univ. 1972-; Pres. Cen. Cttee., Convention on Nat. Consensus 1971-74; Pres. Delhi Branch Nat. Assen. for the Blind; mem. Gov. Body, Inst. of Econ. Growth, India Law Inst., and several other orgs. *Address:* c/o Indian Council of World Affairs, Sapru House, Barakhamba Road, New Delhi 110001, India. *Telephone:* 384943.

KUO WEI-CHENG; Chinese politician. Minister of Railways 1978-. *Address:* People's Republic of China.

KUPRIANOV, Aleksey Andreyevich; Soviet sports administrator; b. 1908; ed. Trainers' School at State Central Inst. of Physical Culture; textile worker and civil aviation worker 1925-34; Exec. Sec. Presidium of Cen. Board of Sporting Soc. Dynamo 1925-52, Deputy Pres. 1952-; mem. Man. Cttee. Int. Union of Cyclists; Vice-Pres. Int. Amateurs' Fed. of Cyclists; Pres. U.S.S.R. Fed. of Cycling Sport; U.S.S.R. Merited Master of Cycling Sport; mem. CPSU 1939-. *Address:* State Committee for Physical Culture and Sports, 4 Skatertny pereulok, Moscow, U.S.S.R.

KURAISHI, Tadao; Japanese politician; b. 1900; ed. Hosei Univ.; mem. House of Reps.; Chair. House of Reps. Labour Affairs Cttee., Budget Cttee.; Minister of Labour 1955-56, 1958-59, of Agric. and Forestry 1967-68, 1970-71, 1973-74; Chair. Liberal-Democratic Party (LDP) Nat. Org. Cttee., Chair. Exec. Council LDP Dec. 1978-. *Address:* House of Representatives, Tokyo, Japan.

KURANARI, Tadashi; Japanese politician; b. 1918; fmr. official in Nagasaki Prefectural Govt.; [illegible] House of Reps. for Nagasaki 1958-, elected seven times; Parl. Vice-Minister of Finance; Chair. Social and Labour Affairs Cttee. of House of Reps.; fmr. Chair. Council on Anti-Monopoly Problems (informal body); Dir.-Gen. Econ. Planning Agency Nov.-Dec. 1974; Vice-Chair. Policy Research Affairs Council of Liberal-Democratic Party (LDP) 1974-76; assoc. of Yasuhiro Nakasone (*q.v.*); Dir.-Gen. Econ. Planning Agency 1977-77. *Address:* c/o Economic Planning Agency, Tokyo, Japan.

KURATA, Motoharu, B.ENG.; Japanese business executive; b. 22 July 1901, Fukushima; s. of Tomehachiro Yokoyama and Sue Kurata; m. Chie Toda 1930; [illegible] s.; ed. Tokyo Inst. of Technology; joined Asahi Glass Co. Ltd. 1925, Man. Dir. 1950-63, Exec. Vice-Pres. 1963-67, Pres. 1967-73, Chair. 1973-; Pres. Iwaki Glass Co. Ltd.; Chair. of Board, Asahi Fiber Glass Co. Ltd.; Dir. Nippon Kogaku K.K.; Exec. Dir. Fed. of Econ. Orgs.; Medal of Honour with Purple Ribbon and with Blue Ribbon. *Leisure interest:* golf. *Address:* 4-23-12, Nishigotanda, Meguro-ku, Tokyo, Japan. *Telephone:* 03-218-5555 (Office); 03-491-6230 (Home).

KURATOWSKI, Kazimierz, PHIL.D.; Polish mathematician; b. 2 Feb. 1896, Warsaw; s. of Marek and Róża (Karzewska) Kuratowski; m. Jadwiga Kozłowska 1927; one d.; ed. Glasgow and Warsaw Univs.; Docent Warsaw Univ. 1921; Prof. Lwów Polytechnic 1927-33, Dean 1929-30; Prof. Math. Warsaw Univ. 1933-66, Prof. Emeritus 1966-; Ed. Fundamenta Mathematicae and Monografie Matematyczne and Bulletin (Polish Acad. of Sciences); fmr. Vice-Pres. Polish Acad. of Sciences, now Chair. Scientific Council Math. Inst.; fmr. Pres. and Hon. mem. Polish Math. Soc.; fmr. Dir. Math. Inst. of Polish Acad. of Science; foreign Hon. mem. Austrian, German, Hungarian, Soviet Acads. of Science, Palermo Acad. of Arts and Sciences, Accad. Naz. dei Lincei (Rome), Acad. of Sciences of Argentina; Hon. F.R.S. (Edinburgh), Hon. Dr. (Prague), Hon. LL.D (Glasgow), Hon. Dr. Maths. (Wrocław), Hon. Dr. (Sorbonne); Polish Nat. Prize 1949, 1951, Jurzykowski Prize (U.S.A.) 1971; Bolzano Gold Medal (Czechoslovak Acad. of Sciences), Sierpinski Medal (Warsaw), Commdr. Cross of Order Polonia Restituta with Star, Order of Banner of Labour 1st and 2nd Class, Medal of 30th Anniversary of People's Poland 1974, Order of Builders of People's Poland 1976, Comm. of Nat. Educ. Medal 1978 and other awards. *Publications:* Topologie I 1933, II 1950 (translated into English and Russian), Calculus 1948, Set Theory (with Mostrowski) 1952, Introduction to Set Theory and Topology 1955 (translated into French, Romanian and Spanish), Half a Century of Polish Mathematics 1920-1970—Reminiscences and Reflections 1973, and about 180 short publications. *Address:* Ul. Kielecka 42 m. 3, 02-530 Warsaw, Poland. *Telephone:* 49-15-21.

KURDIANI, Archil Grigoriyevich; Soviet (Georgian) architect; b. 1903; ed. Georgian Polytechnic Inst.; Chief Architect, Tbilisi 1936-44; Chief Admin. on Architecture, Georgian Council of Ministers 1944-53; Chair. Union of Architects of Georgian S.S.R. 1959-62, Prof. 1960-; Merited Worker of Arts, Georgian S.S.R.; State Prize 1941; U.S.S.R. People's Architect 1970; Order of Lenin and Red Banner of Labour. *Main works:* Dynamo stadium, Tbilisi 1937, Pavilion of Georgian S.S.R., U.S.S.R. Econ. Achievement Exhbn. 1939, Didybinsky Bridge 1954, Television station, Tbilisi 1954, Hotels, etc. *Address:* Georgian Union of Architects, Tbilisi, U.S.S.R.

KURDYUMOV, Georgiy Vyacheslavovich; Soviet metallurgist; b. 14 Feb. 1902, Rylsk, Kursk; ed. Leningrad Polytechnical Inst.; research with X-rays on quenched and tempered steel, Physical Tech. Inst., Leningrad 1924-32; Head, Phase Transformation Lab., Physical Tech. Inst., Dniepropetrovsk 1932-44; Prof. Metal Physics, Dniepropetrovsk Univ. 1933-41; Dir. Inst. of Metallography and Metal Physics, Cen. Research Inst. of Ferrous Metallurgy, Moscow 1944-; Dir. Lab. of Metal Physics, Ukraine Acad. of Sciences, Kiev 1946-51, Dir. Inst. of Solid State Physics, U.S.S.R. Acad. of Sciences 1962-73; Hadfield Memorial Lecturer 1959; Lecturer, AJME Inst. of Metals 1962; Fellow, Metallurgical Soc., AJME 1965-; mem. Ukraine Acad. of Sciences 1939-, Corresp. mem. U.S.S.R. Acad. of Sciences 1946-53, mem. 1953-; mem. Acad. of Sciences, German Dem. Republ. 1969; Hon. mem. Japan Inst. Metallurgy 1976; Foreign Assoc. U.S.A. Nat. Acad. Eng. 1977; Dr. h.c. Krakow Mineral Metallurgy Acad. 1967; State Prize 1949, Hero of Socialist Labour 1969, Orders of Lenin (4), Red Banner of Labour (2), Grande Médaille (Chatelier) Metallurgical Soc. of France 1966, Heyndenkmünze, German Soc. of Metallography 1973. *Publications:* Crystal Structure of Martensite 1926-29, Martensite-Austenite Lattice Relationships 1930, Heat Treatment of Steels in the Light of X-Ray Investigations 1932, Mechanism of the Phase Transformations in Eutectoid Alloys 1933, Reversible Martensitic Transformations in the Alloys of Cu with Al, Sn and Zn 1932-41, Theory of the Hardening and Tempering of Steel 1940, Diffusionless (Martensitic) Transformations 1948, Thermoelastic Equilibrium and Elastic Martensite Crystals 1948-49, Isothermal Austenite-Martensite Transformation at Low Temperatures 1948, Use of Radioactive Isotopes for the Study of Diffusion and the

Interatomic Interactions 1955, Strengthening of Metals and Alloys 1958-62, Phenomena of Quenching and Tempering of Steels 1960, Anomalies of Axial Ratio of Martensite Lattice and Mechanism of the Austenite-Martensite Transformation 1975, Behaviour of Carbon Atoms in Martensite 1966-75, Transformations in Iron and Steel 1977. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

KURMAZENKO, Aleksandr Kirilovich; Soviet foreign trade official; b. 8 Sept. 1917; ed. Dniepropetrovsk Metallurgical Inst. and Acad. of Foreign Trade; mem. CPSU 1945-; Official, Main Dept. of Soviet Property Abroad 1948-56; Official, Ministry of Foreign Trade 1956-58; Deputy U.S.S.R. Commercial Rep. in Italy 1958-61; U.S.S.R. Commercial Rep. in Turkey 1961-65; Chair. Techmashexport Trust 1966-; Badge of Honour (three times). *Address:* Techmashexport Trust, 35 Mosfilmovskaya ulitsa, Moscow, U.S.S.R.

KUROKAWA, Kisho, M.TECH.; Japanese architect; b. 8 April 1934 Aichi Prefecture; s. of Miki and Ineko Kurokawa; m. Sumie Tsuchiya; one s. one d.; ed. Kyoto and Tokyo Univs.; Pres. Kisho Kurokawa, Architect & Assocs., Urban Design Consultants Co. Ltd.; Dir. Inst. of Social Eng.; Adviser, Japan Nat. Railways, Ministry of Public Welfare, Ministry of Educ., Japan Broadcasting Assen.; mem. Architectural Inst. of Japan, Japan Soc. of Futurology, City Planning Inst. of Japan, Royal Soc. of Arts, etc.; awarded Takamura Kotaro Design Prize and prizes in int. competitions in Peru, France and Tanzania. Works include: Nitto Food Co. 1963, Cen. Lodge in Nat. Childrens Land 1964, Hans Christian Andersen Memorial Lodge 1964, Handicapped People's Town 1966, Sagae City Hall 1967, Odakyu Rest House 1969, Sakura City Hall 1969, Takara, Toshiba and Theme Pavilions, Expo 1970, Sapporo Prince Hotel 1971, Nakagin Business Capsule 1971, Karuizawa Prince Hotel 1973, Shirahama Prince Hotel 1973, Bank of Fukuoka 1974, Sony Building 1974, Nat. Museum of Folklore 1974, Hotel New Ohtani, Bulgaria 1975, Sports Centre, Italy, Ishikawa Cultural Centre 1977, Head Office, Japanese Red Cross Society 1977, Nat. Ethnology Museum 1977. *Publications include:* Concrete Prefabricated House, Metabolism 1960, Urban Design 1964, Action Architecture 1967, Homo-Movens 1969, Works of Kisho N. Kurokawa 1969, Kisho N. Kurokawa 1969, Creation of Contemporary Architecture 1971, Complete Work Series of Existing Architects of Japan, Conception of Metabolism, Future of Life, Development of Post-Industrial Society, Entry into Urbanism, Kisho Kurokawa Metabolism in Architecture. *Leisure interest:* photography. *Address:* Aoyama Bldg. 11f., 1-2-3 Kita Aoyama, Minato-ku, Tokyo, Japan.

KUROSAWA, Akira; Japanese film director; b. 1910; ed. Keika Middle School; joined Toho Film Co. as Asst. Dir. 1936; dir. his first film Sugata Sanshiro 1943; First Prize, Venice Film Festival for Rashomon, Silver Lion for The Seven Samurai, American Motion Picture Acad. Award for Rashomon; Order of the Yugoslav Flag. *Films:* Sugata Sanshiro, Ichiban Utsukushiku, Torano Owofumu Otokotachi, Waga Seishun ni Kuinashi, Subarashiki Nichiyobi, Yoidore Tenshi, Shizukanaru Ketto, Norainu, Rashomon 1950, Hakuchi, Ikiru, The Seven Samurai 1954, Ikimono no Kiroku, Kumonosu Jio, Donzoko, Kakushi Toride no San Akunin, The Throne of Blood 1957, The Hidden Fortress 1958, The Bad Sleep Well 1959, Yojimbo 1961, Sanjuro 1962, High and Low 1962, Akahige, Redbeard 1964, Dodes'ka-den, Derzu Uzala 1976, Barkerousse 1977.

KUROWSKI, Zdzisław; Polish politician; b. 14 April 1937, Joniec, Ciechanów, Voivodship; s. of Henryk and Lucyna Kurowski; m.; one s. two d.; ed. Cen. School of Agriculture, Warsaw; mem. of Peasant Youth Union (ZMW), Chair Cen. Board 1966-71; mem. of Exec. of Warsaw Voivodship Cttee., Polish United Workers' Party (PZPR) 1964-66, Deputy mem. Cen. Cttee. 1968-71, mem. 1971-, mem. Secr. of Cen. Cttee. 1975-; Deputy to Seym (Parl.) 1969-; First Sec. Białystok Voivodship Cttee. of PZPR 1972-75; Chair. of Białystok People's Prov. Council 1973-75; Chair. Cen. Board of Fed. of Polish Socialist Youth Unions 1975-77; Chief, Dept. of Light Industry, Trade and Consumption of Cen. Cttee. PZPR April 1977.- *Address:* Komitet Centralny PZPR, ul. Nowy Swiat 6, 00-497 Warsaw, Poland.

KUROYEDOV, Vladimir Alexeyevich; Soviet politician; b. 1906; ed. Gorky Teachers' Training Inst.; teacher, Secondary School Dir., Deputy Head of Dept. of Educ., Gorky 1928-34; Dir. Gorky Automechanical Technical Coll. 1934-39; mem. CPSU 1936-; Instructor, Gorky Regional Cttee. of CPSU 1939-40; Dept. Head, Central Cttee. of CP of Lithuania 1940-41; Sec. Gorky City Cttee. CPSU and Editor Gorkovskaya Kommuna (regional newspaper) 1941-46; Dept. Head, Central Cttee. of CPSU 1946-49; Sec. Sverdlovsk Regional Cttee., CPSU 1949-59; Chair. of Council for Russian Orthodox Church of U.S.S.R. Council of Ministers 1960-66; Chair. of U.S.S.R. Council of Ministers' Council for Matters of Religion 1966-; Order of Red Banner of Labour. *Address:* Council for Matters of Religion, U.S.S.R. Council of Ministers, 11/2 Smolensky Boulevard, Moscow, U.S.S.R.

KURSANOV, Andrey Lvovich, SC.D.; Soviet plant physiologist; b. 4 Nov. 1902, Moscow; ed. Moscow Univ. Cen. Inst. of Sugar Industry 1929-34; A. N. Bakh Inst. of Biochem. 1934-54; Dir. K. A. Timiriazev Inst. of Plant Physiology and Head of Lab. of Translocation of Substances 1952-; mem. U.S.S.R. Acad. of Sciences 1953-, Leopoldina German Acad. of Natural Science 1958-, Acad. of Agric. of France 1964-, Polish Acad. of Sciences; Hon. mem. German Botanical Soc. 1961-, American Acad. of Arts and Sciences 1962-; Hero of Socialist Labour 1969, Order of Lenin (four times), Red Banner of Labour (twice), Commdr. Ordre de Léopold II (Belgium). *Publications:* The Reversible Action of Enzymes in Living Grown Cells 1940, Synthesis and Transformation of the Tannins in Tea Leaves 1953, The Root System as an Organ of Metabolism 1957, The Interaction of Physiological Processes in Plants 1960, Metabolism and the Transport of Organic Substances in the Phloem 1963, Competition of Sugars for Penetrations into Cells 1964, Biochemical basis of transport and accumulation of Sucrose in the Sugarbeet plant, Translocations of Assimilates in the Plant (monograph) 1976. *Address:* K. A. Timiryazev Plant Physiology Institute, Academy of Sciences, 35 Botanicheskaja, Moscow 127273, U.S.S.R.

KURTÁG, György; Hungarian composer; b. 19 Feb. 1926, Lugos; ed. Budapest Music Acad. and in Paris; Deutsche Akad. Austauschdienst (West Berlin) 1971; Prof. of Composition, Music Acad. of Budapest; Erkel Prize (three times), Kossuth Prize 2nd Degree 1973. *Compositions:* Concerto for Viola 1954, String Quartet 1959, Quintet for Wind Instruments 1959, Eight pieces for piano 1960, Signs (for solo viola) 1961, Eight duets for violin and dulcimer 1961, The Sayings of Peter Bornemissza (for soprano and piano) 1968, Four fragments for soprano, dulcimer and violin 1969, Four capriccios for soprano and chamber ensemble 1970, Splinters solo for cimbalom 1974. *Address:* 1064 Budapest VI, Rózsa Ferenc utca 46, Hungary. *Telephone:* 420-819.

KURTI, Nicholas, C.B.E., M.A., DR.PHIL., F.R.S.; British physicist; b. 14 May 1908, Budapest, Hungary; s. of Charles and Margaret (née Pinter) Kurti; m. Georgiana Shipley 1946; two d.; ed. Minta Gymnasium, Budapest, Paris and Berlin Univs.; Asst. Breslau Tech. Univ. 1931-33; attached to Clarendon Lab., Oxford 1933-40, U.K. Atomic Energy Project 1940-45; Demonstrator in Physics, Oxford Univ. 1945-60, Reader 1960-67, Prof. 1967-75, Emer. Prof. 1975-; Senior Research Fellow, Brasenose Coll. 1947-67, Professorial Fellow 1967-75, Emer. Fellow 1975-; Vice-Pres. Royal Soc. 1965-67; Foreign Hon. mem. American Acad. of Arts and Sciences 1968; Hon. mem. Hungarian Acad. of Sciences 1970, Société Française de Physique 1974; Foreign mem. Finnish Acad. of Sciences and Letters 1974, Acad. of Sciences of G.D.R. 1975; Holweck Prize and Medal (British and French Physical Socs.) 1955, Fritz London Award 1957, Hughes Medal, Royal Soc. 1969. *Publications:* Papers on low temperature physics and magnetism. *Leisure interest:* cooking. *Address:* Department of Engineering, Parks Road, Oxford, OX1 3PJ (Office); 38 Blandford Avenue, Oxford, OX2 8DZ, England (Home). *Telephone:* Oxford (0865) 59988 (Office); Oxford (0865) 56176 (Home).

KURTZ, Efrem; American conductor; b. 7 Nov. 1900, St. Petersburg (now Leningrad), Russia; m. Elaine Shaffer 1955 (died 1973); ed. St. Petersburg Conservatory and Stern Conservatory, Berlin; conductor, Berlin Philharmonic Orchestra 1921-24; Musical Dir. Stuttgart Philharmonic 1924-33; Guest conductor New York Philharmonic, NBC Symphony, San Francisco, Cleveland and Chicago Symphony Orchestras 1933-54; Musical Dir. Kansas City Symphony Orchestra 1941-46, Houston Symphony Orchestra 1948-54; during recent years has been guest conductor of major orchestras of Europe, Japan, Australia, Canada, Israel, U.S.A., U.S.S.R., South Africa and at numerous festivals; Commdr. Order of Merit of Italy, Medal of Honor of Bruckner Soc. of America, awarded golden disc by Columbia Records Inc. after three millionth sale of his recordings with the New York Philharmonic. *Leisure interests:* drawing, collecting (paintings, stamps, historical letters), mountaineering. *Address:* c/o 19 Air Street, Regent Street, London W1R 6QL, England. *Telephone:* 01-734 5459.

KUSCH, Polykarp, M.S., PH.D.; American physicist; b. 26 Jan. 1911; ed. Case Inst. of Technology and Univ. of Illinois; Asst. in Physics, Univ. of Illinois 1931-36; Research Asst. Univ. of Minn. 1936-37; Instructor in Physics, Columbia Univ. 1937-41; Vacuum Tube Engineer, Westinghouse Electric Corpn. 1941-42; staff mem. Div. of War Research, Columbia Univ. 1942-44; mem. Tech. staff,

Bell Telephone Labs. 1944-46; Assoc. Prof. of Physics, Columbia Univ. 1946-49, Prof. 1949-72, Vice-Pres. and Provost 1969-72; Prof. of Physics, Univ. of Texas, Dallas 1972-; Eugene McDermott Prof., UT System Chair. 1974-; research in atomic, molecular and nuclear physics; mem. Nat. Acad. of Sciences, American Philosophical Soc.; Hon. D.Sc. (Case, Ohio, Ill., Colby, Gustavus Adolphus, Yeshiva Univs); Nobel Prize in Physics (jointly with Prof. W. E. Lamb) 1955. *Address:* University of Texas at Dallas, P.O. Box 688, Richardson, Tex. 75080, U.S.A.

KUŚNIEWICZ, Andrzej, LL.M.; Polish writer and poet; b. 30 Nov. 1904, Kowenice, near Sambor; s. of the late Bolesław Kuśniewicz and Joanna Ostrawa-Tworkowska Kuśniewicz; m. Anna Kotaniec; ed. Jagiellonian Univ., Cracow; Ministry of Foreign Affairs until 1939; participated in French Resistance Movement, later held in Neue Bremm and Mauthausen concentration camps; first work published 1955; worked for Polish Radio 1955-; mem. Polish Writer's Assen. 1959-, mem. Gen. Board 1978-; mem. PEN Club 1970-; Médaille de la Guerre et Résistance 1947, Minister of Culture and Arts Prize, 2nd Class 1965, Gold Cross of Merit 1965, Award of Meritorious Culture Worker 1968, Knight's Cross, Order of Polonia Restituta 1970, Minister of Culture and Arts Prize, 1st Class 1971, State Prize, 1st Class 1974, Alfred Jurzykowski Prize (U.S.A.) 1974, Seguier Prize (France) 1978. *Publications:* poetry: Słowa o nienawiści 1956, Diabłu ogarek 1959, Czas prywatny 1962, Piraterie 1975, novels: Korupcja 1961, Eroica 1963, W drodze do Koryntu 1964, Król obojga Sycylii 1970, Strefy 1971, Stan nieważkości 1973, Trzecie królestwo 1975. *Address:* Ul. Juliana Bruna 28 m. 57, 02-594 Warsaw, Poland. *Telephone:* 25-18-71.

KUSUNOKI, Naomichi, B.ENG.; Japanese business executive; b. 11 May 1900; ed. Tokyo Imperial Univ.; Automobile Dept., Tokyo Ishikawajima Shipbuilding and Eng. Co. Ltd. 1924-29, Dept. separated, firm finally became Isuzu Motors Ltd., Exec. Dir. Isuzu Motors Ltd., 1943-46, Man. Dir. 1946-62, Pres. 1962, now Chair.; Pres. Soc. of Automotive Engineers of Japan Inc. 1953-56; Pres. Yamato Motor Co. Ltd. 1962-; Dir. Diesel Kiki Co. Ltd. 1951-, Jidosha Kiki Co. Ltd. 1955-, Steel Press Works Corpn. 1962-, Japan Motor Industrial Fed. 1949-; Blue Ribbon Medal 1962. *Address:* Isuzu Motors, 6-22-10 Minami-Oi, Shinagawaku, Tokyo, Japan.

KUTAKHOV, Chief Air Marshal Pavel Stepanovich; Soviet air force officer; b. 16 Aug. 1914; ed. Acad. of General Staff; Turner at factory; student at Workers' Faculty 1931-35; Soviet Army 1935-; graduated from pilot school 1938; pilot, navigator, Commdr. of Fighter Squadron and Wing during Second World War; mem. CPSU 1942-; important posts in Ministry of Defence 1946-69; C.-in-C. of Air Forces and Deputy Minister of Defence 1969-; Deputy to U.S.S.R. Supreme Soviet 1970; mem. CPSU Cen. Cttee. 1971-; Hero of Soviet Union, Gold Star Medal, Order of Lenin and other decorations. *Address:* Ministry of Defence, 34 Naberezhnaya M. Thoreza, Moscow, U.S.S.R.

KUTAKOV, Leonid Nikolayevich; Soviet diplomatist; b. 1919, Moscow; m.; one s. one d.; ed. Moscow Inst. of History, Philosophy and Literature. Soviet Army, Second World War; Chief of Historical Diplomatic Div., Ministry of Foreign Affairs 1946-51; Pro-Rector Moscow State Inst. of Int. Relations 1952-55; Adviser to Dir. of Peking Inst. of Diplomacy, Chinese Ministry of Foreign Affairs 1955-57; Counsellor, Soviet Embassy, Japan 1957-59; Deputy Dir. Inst. of History of Acad. of Sciences of U.S.S.R. 1961-63; Rector, Moscow State Inst. of Int. Relations 1963-65; Senior Counsellor for Political Questions, Perm. Soviet Mission to UN 1965-68; Under Sec.-Gen. for Political and Security Council Affairs, UN Secr. 1968-73; mem. Exec. Board UNESCO 1974-. *Publications:* A New History of International Relations 1918-45 1952, History of Soviet-Japanese Diplomatic Relations 1962, The Portsmouth Peace Treaty 1905 1964, Foreign Policy and Diplomacy of Japan 1964, History of International Relations and Foreign Policy 1917-73, 1975, View from the 35th Floor 1975. *Address:* c/o Ministry of Foreign Affairs 1932-34 Smolenskaya-Sennaya Ploshchad, Moscow, U.S.S.R.

KUTSCHER, Hans, DR.IUR.; German judge; b. 14 Dec. 1911, Hamburg; m. Irmgard Schroeder 1946; two step-d.; ed. Univ. of Graz, Austria and Univ. of Freiburg/Br., Berlin. Civil Servant, Ministry of Commerce and Industry, Berlin 1939, Ministry of Transport, Baden-Württemberg 1946-51, Ministry of Foreign Affairs, Bonn 1951; Sec. Legal Cttee., Conf. Cttee., Bundesrat 1951-55; Judge of Fed. Constitutional Court 1955-70; Judge, Court of Justice of European Communities 1970-, Pres. 1976-; Hon. Prof. Univ. of Heidelberg 1965; Hon. Bencher, Middle Temple 1976, King's Inns, Dublin 1978; Grosses Bundesverdienstkreuz mit Stern und Schulterband (Fed. Repub. Germany) 1970. *Publications:* Die Enteignung 1938, Bonner Vertrag mit Zusatzvereinbarungen 1952, and numerous contributions in professional journals. *Leisure interests:* history, literature. *Address:* Court of Justice of the European Communities, Luxembourg; 7506 Bad Herranalb-Neusatz, Federal Republic of Germany.

KUTYREV, Boris Mikhailovich; Soviet trade corporation official; b. 14 March 1914; ed. Bauman Mechanical Engineering Inst. and Acad. of Foreign Trade, Moscow; Engineer 1938-46; Derunaft Stock Co., Asst. Soviet Trade Rep., 1949-56; Vice-Chair. Auto-export (motor vehicles) 1956-61; Chair. Traktoroexport (tractors, etc.) 1961-65; Soviet Trade Rep. in People's Republic of China 1965-69; Commercial Rep. to G.D.R. 1969-; mem. CPSU; numerous decorations. *Address:* U.S.S.R. Trade Representation, Berlin, German Democratic Republic.

KUWABARA, Takeo, B.A.; Japanese writer; b. 10 May 1904, Turuga; s. of Jitsuzo Kuwabara and Shin Uta; m. Tazu Tanaka 1933; one s. five d.; ed. Kyoto Univ.; Lecturer Kyoto Univ. 1931-42; Asst. Prof. Tohoku Univ. 1943-48; Prof. Kyoto Univ. 1948-68, Emer. Prof. 1968-; Dir. Univ. Inst. of Humanistic Studies 1959-63; mem. Science Council of Japan 1951-71, Vice-Pres. 1960-71; Vice-Pres. Japan PEN Club 1974-75. *Publications:* Fiction and Reality 1943, Reflections on Contemporary Japanese Culture 1947, Some Aspects of Contemporary French Literature 1949, Introduction to Literature 1950, Conquest of Mount Chogolisa 1959, Studies on J.-J. Rousseau 1951, Studies on the Encyclopédie 1954, Studies on the French Revolution 1959, Studies on Chomin Nakae 1966, Selected Works (in 7 vols. and 1 supplement) 1968-72, European Civilization and Japan 1974. *Leisure interest:* mountaineering. *Address:* 421, Tonodan-Yabunosita, Kamikyo-ku, Kyoto, 602 Japan. *Telephone:* 231-0261.

KUWAIT, H.H. The Ruler of (*see* Sabah, Amir Jaber al-Ahmad al-Jaber al-).

KUZINSKI, Stanisław; Polish politician and economist; b. 8 Oct. 1923, Warsaw; ed. School of Planning and Statistics (SGPiS), Warsaw; worked in youth movement (ZWM) 1945-47, in Co-operative Research Inst., then in Inst. of Agric. Econ., Warsaw 1948-54; Insp. of Secretariat, Cen. Cttee. of Polish United Workers' Party (PZPR) 1954-56, Sec. of Warsaw Cttee. of PZPR 1956-57, Deputy Head of Econ. Dept. of Cen. Cttee. 1959-64, Head of Light Industry, Trade and Bldg. Dept., then of Econ. Dept., Cen. Cttee. 1964-72, mem. Cen. Ctee. 1970-71, now mem. Cen. Revision Comm.; Pres. Cen. Statistical Office (GUS) 1972-; Chair. Foreign Trade Comm. 1957-71; Deputy to Seym 1957-76; Order of Banner of Labour, Second Class, Commdr.'s Cross and Chevalier's Cross of Order of Polonia Restituta, Partisan Cross, Grunvald Cross, Third Class. *Address:* Główny Urząd Statystyczny, al. Niepodległości 208, 00-950 Warsaw, Poland.

KUZMIN, Iosif Iosifovich; Soviet engineer, politician and diplomatist; b. 19 May 1910, Astrakhan; ed. Leningrad Electrical Engineering Inst.; Engineer, later Chief Engineer, Moscow projector factory; mem. Party Control Comm., Cen. Cttee. CPSU (Kuibyshev Region) 1940; Deputy Chair. Party Control Comm., CPSU 1940-46; mem. Bureau of Agric. and Storage 1947-50, Deputy Chair. 1950-52; mem. Council of Ministers of U.S.S.R. 1947-57, Deputy Chair. 1957-59; on staff of Cen. Cttee. CPSU 1952-57; Chair. State Planning Cttee. of U.S.S.R. 1957-59; Chair. Scientific Econ. Council with rank of Minister 1959-60; Amb. to Switzerland 1960-63; Expert Consultant in Dept. of Int. Econ. Orgs., Ministry of Foreign Affairs 1963-. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

KUZNETS, Simon PH.D.; American economist and statistician; b. 30 April 1901; ed. Columbia Univ.; mem. staff, Nat. Bureau of Econ. Research, New York 1927-61; Prof. of Econs. and Statistics, Univ. of Pa. 1936-54; Assoc. Dir. Bureau of Planning and Statistics, W.P.B., Washington, D.C. 1942-44; Econ. Adviser, Nat. Resources Comm. of China 1946; Adviser, Nat. Income Cttee. of India 1950-51; Prof. of Political Economy, Johns Hopkins Univ. 1954-60, Prof. of Econs., Harvard Univ. 1960-71; Fellow, American Assen. for the Advancement of Science, American Statistical Assen.; Corresp. Fellow, British Acad.; mem. U.S. Nat. Acad. of Science, Int. Statistical Inst., American Philosophical Soc., Econometric Soc., Royal Acad. of Sciences, Sweden; Hon. Fellow, Royal Statistical Soc. (England); Hon. Ph.D. (Hebrew Univ. of Jerusalem), Hon. Sc.D. (Princeton, Pennsylvania, Harvard), D.H.L. (Columbia), LL.D. (New Hampshire); Nobel Prize for Econs. 1971. *Publications:* Cyclical Fluctuations in Retail and Wholesale Trade 1926, Secular Movements in Production and Prices 1930, Seasonal Variations in Industry and Trade 1934, Commodity Flow and Capital Formation 1938, National Income and its Composition 1941, National Product Since 1869 1946, Upper Income Shares 1953, Economic Change 1954, Six Lectures on Economic Growth 1959, Capital in the American Economy 1961, Modern Economic Growth 1966, Eco-

nomic Growth of Nations 1971, Population, Capital and Growth (essays) 1974. *Address:* 67 Francis Avenue, Cambridge, Mass. 02138, U.S.A.

KUZNYETSOV, Vasiliy Vasiliyevich; Soviet politician and diplomatist; b. 13 Feb. 1901, Sofinovka, Gorky; ed. Leningrad Polytechnic Inst. and in U.S.A.; worked as Engineer, Makayevka Steel Works 1927-31; Engineer, Elektrostal Works, Moscow 1934-37; Engineer and later Chief Engineer of Glavspetstal 1937-40; Vice-Chair. State Planning Cttee. (Gosplan) 1940-43; mem. State Defence Cttee. 1941-45; Chair. Cen. Cttee. Steelworkers' Union 1944; Chair. All-Union Cen. Council of Trade Unions 1944-54; Vice-Pres. WFTU 1945-53; Deputy Minister of Foreign Affairs and Amb. to China 1953-55; 1st Deputy Foreign Minister 1955-; Rep. of U.S.S.R. in Czechoslovakia 1968-; Leader, Soviet Del. to frontier talks in Peking, Oct. 1969-June 1970; Head Soviet Del. to UN 1955; joined CP 1927, mem. CPSU Cen. Cttee 1952-; Deputy to Supreme Soviet 1946-; First Deputy to Pres., Oct. 1977-; Cand. mem. Politbureau Oct. 1977-; First Vice-Pres. Presidium of Supreme Soviet Oct. 1977-; State Prize 1941; Order of Lenin (five times), Red Banner of Labour and other decorations. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

KUZNYETSOV, Viktor Ivanovich, DR.TECH.SC.; Soviet scientist; b. 27 April 1913, Moscow; ed. Leningrad Polytechnic Inst.; Engineer at a number of enterprises of Instrument-making Industry 1938-; mem. CPSU 1942; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-68, Academician 1968-; research in field of automation and technical cybernetics; State Prize 1943, 1946; Order of Lenin (twice), Order of October Revolution, Order of the Red Banner and other decorations. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

KUZNYETSOV, Vladimir Nikolayevich; Soviet diplomatist; b. 24 July 1916, Kliven village, Kursk region; ed. Chernyshevsky State Univ., Saratov; State Service till 1946; Employee, Third European Dept. 1946-49; Asst. then Head of Group, Gen. Secr., Ministry of Foreign Affairs 1949-56; Counsellor, Soviet Embassy, Netherlands 1956-60; Counsellor, First European Dept. Ministry of Foreign Affairs 1960-61; Counsellor-envoy, Soviet Embassy, Indonesia 1961-67; Envoy of South East Asia Dept., Ministry of Foreign Affairs 1967-68; Amb. to Malaysia 1968-73; Dir. of Admin. Services to the Diplomatic Corps 1974-; Order of Patriotic War, 1st Class, Order of Red Banner of Labour (twice), Order of Friendship of Peoples, Order of Red Star, and medals. *Address:* c/o Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

KUZNYETSOV, Yuriy Alekseyevich; Soviet geologist; b. 19 April 1903, Nikolsk, Vologda region; ed. Tomsk Univ.; Postgraduate, Research Assoc. Tomsk Univ. 1925-27; Research Assoc., Siberian Geology Prospecting Inst. 1930-33; Asst. Prof. Tomsk Industrial Inst. 1933-38; Prof. Head of Chair Tomsk Polytechnical Inst. 1938-58; Head of Lab., Inst. of Geology and Geophysics, Siberian Branch U.S.S.R. Acad. of Sciences 1958-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-; Karpinsky Prize 1970; Order of Lenin (twice) and other decorations. *Publications:* Works on stratigraphy, tectonics, petrology and metalogeny of Altai, Kusnetski Ala-Tau, Eastern Sayans and Yenisei Ridge. *Address:* Akademgorodok, Novosibirsk, U.S.S.R.

KWAPONG, Prof. Alex. A.; Ghanaian professor; b. 1927; ed. Presbyterian junior and middle schools, Akropong, Achimota Coll. and King's Coll., Cambridge. Visiting Prof., Princeton Univ. 1962; fmr. Pro Vice-Chancellor and Head of Classics Dept., Ghana Univ., Vice-Chancellor 1966; mem. Political and Educ. Cttees., Nat. Liberation Council 1966. *Address:* University of Ghana, P.O. Box 25, Legon, nr. Accra, Ghana.

KY, Air Vice-Marshal Nguyen Cao (*see* Nguyen Cao Ky, Air Vice-Marshal).

KYLE, Air Chief Marshal Sir Wallace (Hart), G.C.B., K.C.V.O., C.B.E., D.S.O., D.F.C.; Australian R.A.F. officer and administrator; b. 22 Jan. 1910, Kalgoorlie, W.A.; s. of A. Kyle and Ellen Christina; m. Molly Rimington (née Wilkinson) 1941; three s. one d.; ed. Guildford Grammar School, W.A., R.A.F. Coll., Cranwell, and R.A.F. Staff Coll.; served with 17th Squadron 1930-31, Fleet Air Arm 1931-34; Flying Instructor 1934-39; served in war 1939-45; Bomber Command 1940-45; R.A.F. Staff Coll. 1945-47; Middle East 1948-50; ADC to King George VI 1949; Asst. Commdt. R.A.F. Coll., Cranwell 1950-52; Dir. of Operational Requirements, Air Ministry 1952-54; Air Officer Commanding, Malaya 1955-57; Asst. Chief of Air Staff, Operational Requirements 1957-59; Air Officer Commanding-in-Chief. Tech. Training Command 1959-62; Vice-Chief of Air Staff 1962-65; Air A.D.C. to H.M. the Queen 1966-68; Air Officer Commanding-in-Chief, Bomber Command 1965-68, Strike Command 1968; retd. 1968; Gov. of Western Australia Oct. 1975-; K. St. J. *Leisure interests:* golf, sailing, gardening, light music. *Address:* Government House, Perth, Western Australia; and R.A.F. Club, 128 Piccadilly, London, W.1., England.

KYO, Machiko, Japanese actress; b. 1924; began her career as a dancer with the Shochiku Girls' Opera Co., Osaka; film début in Saigo ni Warau Otoko (Last Laughter) 1949; has appeared in over 80 films including Rashomon 1950, Ugetsu Monogatari 1953, Gate of Hell 1954, Story of Shunkin 1955, Akasen Chitai (Street of Shame), Teahouse of the August Moon 1956, Yoru no Cho (Night Butterflies) 1957, Odd Obsession 1959, Floating Weeds 1959, A Woman's Testament 1960; Best Actress Award for Rashomon 1950; Jussie (Finland) Award 1957. *Address:* Uni Japan Film, 9-13 Ginza 5-chome, Chuo-ku, Tokyo 104, Japan.

KYPREOS, Konstantinos; Greek politician; b. 1920, Cairo, Egypt; m.; two s.; ed. Caen Univ., France; Tech. Man., Abu Zaabal Co., Egypt 1946-61; mem. Board of Dirs. of Bassalia Mines, Egypt 1956-61; Tech. Adviser and mem. Board of Dirs. of Arab Pharmaceutical Co., Egypt 1958-61; Man.-Co-ordinator and Adviser of Lurgi Gesellschaft für Chemie und Hüttenwesen, Germany, and of Krebs of Paris, France 1962-64; Gen. Man. Nitro-Fertilisers Co. 1964-67, mem. Board of Dirs. and Man. Dir. 1967; Minister of Industry 1967-71. *Publications:* Studies on chemical products, plants and installations. *Address:* c/o Ministry of Industry, Athens, Greece.

KYPRIANOU, Spyros; Cypriot lawyer and politician; b. 28 Oct. 1932, Limassol; s. of Achilleas and Maria (née Argonzov) Kyprianou; m. Mimi Pagathrokliton 1956; two s.; ed. City of London Coll. and Gray's Inn, London; called to the Bar 1954; f. Nat. Union of Cypriot Students in England (EFEKA), elected its first Pres. 1952-54; London Sec. to Ethnarch 1952-54; London Sec. of Ethnarchy 1954-56; journalist 1952-56; New York rep. of Ethnarchy 1956-57, London rep. 1957-59; mem. Cen. Cttee. of Nat. Dem. Front for Reconstruction (EDMA) 1959; Minister of Foreign Affairs 1960-72 (resigned); Pres. Cttee. of Foreign Ministers of Council of Europe April-Dec. 1967; led numerous Dels. to UN Gen. Ass., Security Council, also led talks on the association of Cyprus to the EEC; legal practice 1972-; mem. Cyprus Del. to UN Gen. Ass. 1974, *ad hoc* mem. to UN Security Council 1975; Pres. House of Reps. 1976-77; Pres. of Cyprus Aug. 1977-; Grand Star of the U.A.R. 1961, Grand Cross, Order of George I of Greece 1962, Grand Cross of Fed. Repub. of Germany 1962, Grand Cross, Order of Boyaca (Colombia) 1966, Grand Cross, Order of Merit (Chile) 1966, Order of St. Aikaterini of Sinai 1966, Grand Silver Cross of Austria 1973. *Leisure interests:* literature, music, sports. *Address:* Kermia Buildings, Office 202, 2nd Floor, 4 Diagoras Street, Nicosia, Cyprus. *Telephone:* 74400.

KYRIAZIDIS, Nicolas; Greek economist; b. 3 Sept. 1927, Athens; m. Ellie Kyrou; ed. Oxford, Illinois and Chicago Univs.; Head of Reports Section, Ministry of Co-ordination 1949; Dir. Monetary Policy Service 1950; Dir. Foreign and Trade Payments 1951-54; Asst. Econ. Adviser, Bank of Greece 1956-60, Alt. 1960-64; Deputy Dir.-Gen. Ministry of Co-ordination 1962-64; Econ. Adviser, Nat. Bank of Greece 1964-67; Senior Economist IMF 1968-70; Adviser to Govt. of Cyprus in negotiations for association with European Community 1971-73; Deputy Gov. Bank of Greece 1974-; took part in negotiations for EFTA 1957-58, for association between Greece and EEC 1959-61, led Greek Del. in accession negotiations 1976; mem. Board, Soc. for the Study of Greek Problems 1971-72; mem. cttee. for restoration of democratic legality 1973; Commdr. George I (Greece), Kt. Commdr. Léopold II (Belgium), Knight Commdr. Order of Merit of Italian Repub., Knight Commdr. Order of Merit of Fed. Repub. of Germany. *Address:* Bank of Greece, Athens; 18 Deliyanni, Kifissia, Greece (Home). *Telephone:* 80-12-578 (Home).

KYUNG-WHA CHUNG (*see* Chung, Kyung-Wha).

L

LABIDI, Abdelwahab; Tunisian financier; b. 22 April 1929, Kef; s. of Mohamed and Khedija Labidi; m. Nicole Michel 1955; one s. two d.; ed. Collège Sidiki Tunis, Institut des Hautes Etudes, Tunis, Faculty of Law, Paris Univ; fmr. Gen. Man. Banque de Tunisie; Insp. Gen. Banque Nat. Agricole de Tunisie; Man. Soc. Tunisienne de Banque; Man. Dir. Nat. Devt. Bank of Niger 1964-69; Vice-Pres. African Devt. Bank 1969-70, Pres. 1970-76; Pres. African Devt. Fund 1973-76; Chair. Sifida (Geneva) 1973-77; Adviser to Scandinavian Bank Ltd. (London) 1977-; mem. Exec. Cttee. Club de Dakar (Paris), Governing Council of Soc. for Int. Devt. (Rome). *Address:* 62 bis rue de Latour, 75016 Paris, France. *Telephone:* 503-06-22.

LABIS, Attilio; French ballet dancer and choreographer; b. 5 Sept. 1936; ed. Ecole de danse académique de l'Opéra, Paris; mem. Corps de Ballet at the Paris Opera 1952, Premier Danseur 1959, Principal Premier Danseur 1960-65, Maître de ballet adjoint 1965-; Guest Dancer in London, Paris, Washington, Tokyo, Moscow, Kiev, Leningrad, Rome, Milan, Berlin, Munich, Stuttgart, Rio de Janeiro and Sydney; Chief Choreographer at the Paris Opera; devised choreography for productions including Rencontre (TV) 1961, Arcades 1964, Iphigénie en Tauride 1965, Romeo and Juliet 1967, Spartacus 1973, Raymonda 1973; has created and interpreted numerous ballets including Giselle, Sleeping Beauty, Swan Lake, Don Quixote, Pièces Choréographiques (Peter Van Dijk), Pas de Dieux (Gene Kelly), Marines (Georges Skibine), Icare (Serge Lifar), Symphonie Concertante, Sarracenia (Michel Descombey), Renart, Pas de danse (music by Gluck); Chevalier des Arts et des Lettres. *Address:* 36 rue du Chemin-de-fer, 78380 Bougival, France.

LABISSE, Félix Louis Victor Léon; French painter and theatrical designer; b. 9 March 1905; s. of Félix Labisse and Marie-Louise Spriet; m. Jony Herlin 1955; ed. Coll. St. Jean, Douai and Lycée Michelet, Paris; lived in Ostend 1927-32, in Paris area since 1932; mem. Cttee. Salon de Mai, in charge of Surrealist and Fantastic Art Rooms; one-man exhbns. in Paris, Brussels, Liège, Antwerp, Rio de Janeiro, São Paulo, Buenos Aires, Milan, Cologne, London, New York, etc., Retrospective Exhbn. Knokke-Le-Zoute 1960, Museum Boymans-van Beuningen, Rotterdam 1973, Ostend 1979; mem. Institut de France, Acad. des Beaux-Arts, Higher Council for Teaching of Fine Arts, Comm. for Artistic Creation, Ministry of Arts and Letters, Royal Acad. of Belgium; Chevalier Légion d'honneur, Officier Ordre des Arts et Lettres, Officier Ordre de la Couronne de Belgique, Cruzeiro do Sul do Brasil, Commandeur de l'Ordre Nationale de la Côte d'Ivoire; Grand Prix Bienal of São Paulo for theatre decors 1957. *Works* in Musée d'Art Moderne, Paris, Musées de la Ville de Paris, Musée de Lille, Musée de Verviers, Guggenheim Museum, New York and museums in Douai, Liège, Tel-Aviv, Rio de Janeiro, Ostend and Museum of Modern Art, New York. *Major theatre decors and costumes for:* Hamlet, Les Nuits de la Colère, Le Procès (Kafka), Zadig, Noë, Elisabeth la Femme sans homme, L'Orestie, Le Séducteur, Fabien, Le Martyre de Saint Sébastien, Le Château (Kafka), Le Médium, Le Château de Barbe-Bleue, Le Marriage de Monsieur Mississippi (Dürrenmatt), Partage de Midi, Le Diable et le bon Dieu, Faust, Piège de lumiére, The Prisoner, Liliom, L'Amérique (Kafka), Padmovati, Le Roi d'Ys, La Révélation, Lazare, Irène Innocente, Le Sabre de mon père, etc. *Publications:* Histoire naturelle, Le Sorcier des familles. *Address:* 21 rue Saint James, 92200 Neuilly-sur-Seine, France.

LABOUISSE, Eve Denise, B.S., PH.B. (Mrs Henry R. Labouisse, née Curie); American writer, journalist and lecturer; b. 6 Dec. 1904, Paris, France; d. of the late Pierre and Marie (née Sklodowska) Curie; m. Henry R. Labouisse (*q.v.*) 1954; ed. Coll. Sévigné, Paris; went to London from France 1940; war corresp. Libya, Russia, Burma, China 1942; Lieut. Women's Aux. Forces, Free French Army 1943-44; returned to Paris 1944; co-publisher Paris-Presse 1945-49; Special Adviser to Sec.-Gen. NATO, Paris 1952-54; American citizen since 1956. *Publications:* Madame Curie 1937 (trans. into 35 languages), Journey among Warriors 1943. *Address:* 1 Sutton Place South, New York, N.Y. 10022, U.S.A.

LABOUISSE, Henry Richardson, B.A., LL.B.; American United Nations official; b. 11 Feb. 1904, New Orleans, La.; s. of Henry and Frances (née Huger) Labouisse; m. 1st Elizabeth S. Clark 1935 (died 1945), one d.; m. 2nd Eve Curie (*q.v.* Eve Labouisse) 1954; ed. Princeton and Harvard Univs; Attorney-at-law New York 1929-41; Asst. Chief Div. of Defence Materials, Dept. of State 1941-43 and Chief of Div. 1943; Deputy Dir. Office of Foreign Econ. Coordination 1943; Chief Eastern Hemisphere Div. 1944; Minister, Econ. Affairs, U.S. Embassy, Paris 1945; Special Asst. to Under-Sec. of State for Econ. Affairs 1946; Special Asst. to Dir., Office of European Affairs 1946; Head U.S. Del. to EEC 1948; Co-ordinator for Foreign Aid and Assistance 1948; Dir. Office of British Commonwealth and Northern European Affairs 1949-51; Chief Special Mission to France of Econ. Co-operation Admin. 1951-54; Chief Mutual Security Agency Special Mission to France 1952; Dir. UN Relief and Works Agency for Palestine Refugees 1954-58; Consultant IBRD 1959-61; Head of IBRD Mission to Venezuela 1959; Dir. Int. Co-operation Admin. 1961-62; Amb. to Greece 1962-65; Exec. Dir. UNICEF 1965-; Hon. LL.D. (Bridgeport) 1961, (Princeton) 1965, (Lafayette Coll.) 1966, (Tulane) 1967. *Address:* UNICEF, 6th Floor, 866 United Nations Plaza, New York, N.Y. 10017 (Office); 1 Sutton Place South, New York, N.Y. 10022, U.S.A. (Home). *Telephone:* PL4-1234 (Office); 751-4156 (Home).

LABOULAYE, François René de; French diplomatist; b. 16 June 1917, Washington, D.C., U.S.A.; s. of André and Marie (Hely d'Oisse) de Laboulaye; m. Antoinette de Vienne 1939; two s. two d.; ed. Landon School, Washington, D.C., Univ. of Paris; entered diplomatic career in Cen. Admin. 1943; at disposal of French Red Cross 1944; Third Sec., then Second Sec., Beirut, Lebanon 1944-46, Berlin and Bonn, Germany 1947-49; Central Admin., Africa, Middle East 1949-51; First Sec., then Counsellor, Ottawa, Canada 1951-54; Counsellor, Washington, U.S.A. 1954-57; at disposal of Compagnie Française des Pétroles 1958-62; First Counsellor, Moscow, U.S.S.R. 1962-65; Pres. Frantéco (Colour TV) 1965; in charge of North African Affairs 1965-68; Amb. to Brazil 1968-71, to Japan 1972-75; Dir. of Political Affairs, Central Admin. 1975-77; Amb. to U.S.A. Nov. 1977-; Officier de la Légion d'honneur 1968, Commdr. Ordre national du Mérite 1975. *Address:* French Embassy, 2535 Belmont Road, N.W., Washington, D.C. 20008 (Office); 2221 Kalorama Road, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* DU.7 2666 (Office); AD.4 0990.

LABUDA, Gerard; Polish historian; b. 28 Dec. 1916, Nowa Huta, Kartuzy district; s. of Stanisław Labuda and Anastazja Baranowska; m. Countess Alberta Wielopolska 1943; four s. one d.; ed. Poznań Univ. and Lund Univ., Sweden; Doctor 1944-46, Docent 1945-50, Extraordinary Prof. 1950-56, Prof. 1956-; Rector, Poznań Univ. 1962-65; Sec.-Gen. Poznań Soc. of Friends of Learning 1961-70, Pres. 1972-76; Editor Roczniki Historyczne (Annals of History) 1969-; Corresp. mem. Polish Acad. of Sciences 1951-69, mem. 1969-, mem. Presidium 1972-; Chair. Cttee. for Researches on Poles Living Abroad, Polish Acad. of Science; Chair. Poznań br. of Polish Acad. of Sciences; mem. European Soc. of Culture 1963-; State Prizes 1949, 1950, 1970; Knight's Cross, Order of Polonia Restituta 1954, Officer's Cross 1960, Commdr.'s Cross 1965; Palacki Medal (Czechoslovakia) 1968, Medal of 30th Anniversary of People's Poland 1974, Order of Banner of Labour, 1st Class 1976. *Publications:* Pierwsze państwo słowiańskie—państwo Samona (First Slavonic State—Samon's State) 1949, Fragmenty dziejów Słowiańszczyzny Zachodniej (Fragments of History of the West Slavs), Polska granica zachodnia. Tysiąc lat dziejów politycznych (The Western Frontier of Poland: A Thousand Years of Political History) 1971; co-author, Słownik Starożytności Słowiańskich (Dictionary of Slavonic Antiquities), Historia Pomorza (History of Pomerania), Historia dyplomacji polskiej (Sredniowiecze) (History of Polish Medieval Diplomacy) 1978; numerous articles. *Leisure interests:* sociology, linguistics. *Address:* Ul. Kanclerska 8, 60-327 Poznań, Poland. *Telephone:* 673-585.

LACARTE MURÓ, Julio Antonio; Uruguayan diplomatist; b. 1918; ed. Inst. de Bordeaux; Attaché and later Sec. Uruguayan Embassy, London 1946; Deputy Dir. Div. of Int. Trade and Balance of Payments, UN and Deputy Exec. Sec. GATT 1946-48; Minister-Counsellor Washington 1949-51; Minister to Ecuador 1951-54; Amb. to Bolivia 1954-56, to U.S.A. and Rep. to OAS 1956-60; Amb. to Fed. Repub. of Germany 1960-67; Rep. to EEC 1963; First Vice-Pres. GATT 1964, Pres. GATT; Minister of Industry and Trade 1967; Amb. to Argentina 1968; Rep. to Intergovernmental Coordinating Cttee. for River Plate Basin 1968-; mem. UN Cttee. for Devt. Planning; Pres. LAFTA 1975; corresp. mem. Uruguayan Acad. of Econs.; Ecuadorean, German and Bolivian decorations. *Publications:* New Principles in World Trade 1949, Uruguay and

the General Agreement on Tariffs and Trade 1951, Foreign Economic Policy of Uruguay 1955. *Address:* c/o Ministerio de Relaciones Exteriores, Avda. 18 de Julio 1205, Montevideo, Uruguay.

LACHER, Hans, LL.D.; Swiss diplomat; b. 8 Aug. 1912, Basle; m. Daisy E. Bubeck 1941; one s.; ed. Basel and Paris Univs.; Swiss Foreign Office 1941-48; First Sec. Swiss Legation, Washington, D.C. 1948-53; Head of Swiss Del. Berlin 1954-61; Amb. to the Philippines 1961-63; Consul-Gen. New York 1963-69; Amb. to Fed. Repub. of Germany 1969-75. *Leisure interests:* history, photography, art. *Address:* "Au Thovex", CH-1807 Blonay, Switzerland.

LACHS, Manfred, LL.M., LL.D., DR.JUR. (Cracow, Nancy); Polish international lawyer; b. 21 April 1914, Stanisławów; s. of Ignancy and Sophie Lachs; m. Halina Antonina; one d.; ed. Uniwersytet Jagiellónski, Cracow, Univ. of Vienna and London School of Economics; Dir. Legal and Treaties Dept., Ministry for Foreign Affairs 1947-60; Prof. Acad. of Political Sciences, Warsaw 1949-50; Prof. of Int. Law, Univ. of Warsaw 1952-; Minister 1956-60, Amb. 1960-66; Judge, Int. Court of Justice, The Hague 1967-, Pres. 1973-76; Polish Delegate, Paris Peace Conf. 1946; mem. Polish Del. to UN Gen. Assembly 1946-52, 1955-60, 1962-64, 1964-66; Rep. of Poland to UN Disarmament Cttee. 1962-64; Chair. Legal Cttee., UN Gen. Assembly 1949, 1951, 1955, Vice-Chair. 1952; mem. UN Int. Law Comm. 1962-, Rapporteur 1962, Chair. of its sub-cttee. on Succession of States and Govts., Special Rapporteur on sub-cttee.; Chair. UN Legal Comm. for Outer Space 1962-66; Vice-Chair. Board of Trustees, UN Inst. of Training and Research; Vice-Pres. Curatorium Hague Acad. of Int. Law; mem. Perm. Court of Arbitration, Inst. of Int. Law, Polish Acad. of Sciences, Acad. of Moral Sciences, Bologna, Mexican Acad. of Int. Law; involved with various other UN orgs. and cttees.; Lecturer various acads., univs. and insts. in Europe and North and South America; Distinguished Visiting Senior Fellow, New York Univ. 1970; Hon. mem. Int. Acad. of Astronautics, American Soc. of Int. Law; Hon. Dr. (Algiers), Hon. Dr. jur. et pol. sc. (Budapest), Hon. LL.D. (Delhi), Hon. D.Sc. (Law) (Moscow), Hon. Dr. (Nice, Bucharest, Dalhousie, New York, Brussels, Southampton, Sofia, Vancouver, Howard, London); Wateler Peace Prize 1977. Gold Medal for Outstanding Achievements in Law Making for Outer Space 1966, World Jurist Award 1975. *Publications:* Numerous essays and articles and War Crimes; An Attempt to Define The Issues 1945, The Geneva Agreements on Indochina (in Polish) 1955 (Russian trans. 1956), Les Développements et Fonctions des Traités Multilatéraux: Recueil des Cours 1957, The Multilateral Treaties (in Polish) 1958 (Russian, Hungarian and Spanish trans.), The Polish-German Frontier (in English, French, Spanish and German), The Law of Outer Space, A Law in-the-making, An Experience in Contemporary Law-Making 1962, Recueil des Cours 1964, Teachings and Teaching of International Law 1976, El Derecho del Espacio Ultraterrestre 1977. *Leisure interests:* walking, reading, science, science fiction. *Address:* The International Court of Justice, Peace Palace, The Hague 2012, Netherlands. *Telephone:* The Hague 92-44-41.

LACLAVÈRE, Georges; French geophysicist; b. 28 June 1906, Nice; s. of Etienne Laclavère and Marie Thérèse Huet; m. Marcelle Todd 1934; one s. one d.; ed. Ecole Polytechnique, Paris; Service Géographique Paris 1934; geodetic and astronomical operations in France and in Overseas Territories 1936-40; Inst. Géographique National 1940-74; Sec.-Gen. Int. Union of Geodesy and Geophysics 1951-63; mem. Int. Cttee. for the Int. Geophysical Year 1953-59; Chief Dept. of Cartography, Inst. Géographique National, Paris 1957-63, Dir. 1963-74; mem. Bureau des Longitudes 1957; Pres. Scientific Cttee. for Antarctic Research 1958-63, French Nat. Cttee. for Antarctic Research; Treas. Int. Council of Scientific Unions 1961-69; Sec.-Gen. Comité Int. de Géophysique 1959-65; mem. Centre Nat. de la Recherche Scientifique 1960-; Dir. of Programme UN Conf. on Science and Tech. 1961-63; Pres. French Nat. Cttee. of Geodesy and Geophysics 1970-78; mem. Exec. Cttee. Int. Council of Scientific Unions 1963-72; Officier Légion d'honneur, Commdr. Ordre national du Mérite, Croix de guerre, Legion of Merit. *Publications:* Traité de Géodésie (with P. Tardi) 1954, and numerous articles in scientific journals. *Leisure interest:* stamp collecting. *Address:* 53 ave. de Breteuil, Paris 75, France. *Telephone:* 734-94-26.

LACO, Karol, JU.DR., DR.SC.; Czechoslovak politician; b. 28 Oct. 1921, Sobotiště; ed. Faculty of Law, Comenius Univ., Bratislava; [illegible] of Faculty of Law, Comenius Univ. 1947-, Asst. Prof. 1952, Prof. 1963, Dean 1953-56, 1957-59, 1960-61; Deputy to House of Nations, Fed. Assembly 1968-71; Deputy to Slovak Nat. Council 1968-71; Deputy Prime Minister of C.S.S.R. 1969-; Chair. Legis. Council of Fed. Govt. 1969-; mem. Czechoslovak Pugwash Cttee. 1965-; Chair. Co-ordination Cttee. of Govt. of C.S.S.R. for Nat. Cttees. 1970-; Deputy to House of the People, Fed. Assembly 1971-; mem. Czechoslovak Acad. of Sciences, Academician 1977-, Academician, Slovak Acad. of Science 1978-; Head Dept. State Law, Univ. of Komenský, Bratislava 1978-; Order of Labour 1969, 1971, Gold Medal Comenius Univ. 1969. *Publications:* The National Committees, the Core of the Political Basis of People's Democratic Czechoslovakia 1954, Constitutional Law No. 33/1956 on the Slovak National Organs 1956, The Social System of the Czechoslovak Socialist Republic 1960, Constitution of pre-Munich Č.S.R. and Constitution of Č.S.S.R. (Part I) 1966; textbooks and study aids; contributions to specialized journals. *Address:* Presidium of the Czechoslovak Government, Prague 1, nábř. kpt. Jaroše 4, Czechoslovakia.

LACOMBE, Américo Jacobina; Brazilian teacher; b. 7 July 1909; s. of Domingos Lourenço and Isabel Jacobina Lacombe; m. Gilda Masset Lacombe 1935; four s. one d.; ed. Colégio Jacobina, Rio de Janeiro, Colégio Arnaldo (Belo Horizonte), and Univ. of Rio de Janeiro; Sec. Nat. Council of Educ. 1931-39; Pres. Casa de Rui Barbosa 1939-61; Prof. of Brazilian History at Pontifical Univ. of Rio de Janeiro; Pres. Alliance Française of Rio de Janeiro; mem. Comm. on Historical Texts, numerous Historical Insts., Portuguese Historical Acad. and Brazilian Acad. of Letters. *Publications:* Mocidade e Exilio de Rui Barbosa 1934, Paulo Barbosa e a Fundação de Petrópolis 1940, Um Passeio Pela História do Brasil 1942 (trans. Brazil: A Brief History 1954), O Pensamento Vivo de Rui Barbosa 1944, Brasil—Período Nacional 1956, Introdução ao Estudo da História do Brasil 1974, A Sombra de Rui Barbosa 1978. *Leisure interest:* Director of Rio de Janeiro Jockey Club Library. *Address:* Rua Dezenove de Fevreiro 105, Code 22280, Botafogo, Rio de Janeiro, RJ; Pontificia Universidade Católica de Rio de Janeiro, [illegible] Marquês de São Vicente 263, Rio de Janeiro, RJ, Brazil. *Telephone:* 246-3176 (Home).

LACOMBE, Henri; French oceanographer; b. 24 Dec. 1913, Nîmes; s. of Adrien Lacombe and Marguerite Llorens; m. Geneviève Geoffruy 1939; three s. four d.; ed. Lycée de Nice, Lycée Saint-Louis, Paris, and Ecole Polytechnique, Paris; Marine Hydrographical Engineer 1935-55; Prof. of Physical Oceanography, Muséum de Paris 1955-, Dir. of scientific expeditions at sea—in the Mediterranean and Strait of Gibraltar; fmr. Pres. Int. Assen. for the Physical Sciences of the Ocean; Chair. UNESCO Intergovernmental Oceanographic Comm. 1965-67; mem. French Acad. 1973, Marine Acad. 1976; Commdr. Ordre national du Mérite, Officier Légion d'honneur, Croix de guerre, Commdr. Etoile d'Anjouan, etc. *Publications:* Etudes d'acoustique sous-marine 1946, Ouvrage sur courants de marée 1953, Mission hydrographique Maroc 1959; various studies on the movement of the [illegible] 1949-68; Cours d'océanographie physique 1965, Les énergies de la mer 1968, Les mouvements de la mer 1971. *Address:* Laboratoire d'Océanographie Physique du Muséum, 43 rue Cuvier, 75005 Paris (Office); 20 bis avenue de Lattre de Tassigny, 92340 Bourg-La-Reine, France (Home). *Telephone:* 707-85-44, 707-19-00, 707-01-52 (Office); 664-23-22 (Home).

LACOSTE, Robert; French politician; b. 5 July 1898; began career in Ministry of Finance; Sec.-Gen. Féd. générale des Fonctionnaires and Editor Tribune des Fonctionnaires before 1939; during occupation founder mem. Libération-Nord, mem. Executive Libération-Sud, co-founder Mouvements Unifiés de la Résistance; with Provisional Govt. 1944; mem. both Constituent Assemblies 1945-46; Socialist Deputy for the Dordogne 1946-58, 1962-68; Minister for Industrial Production 1944-47, for Industry Oct.-Nov. 1947, for Industry and Commerce 1947-50; Resident Minister Algeria 1956-58; Pres. Conseil Supérieur de l'Electricité, Gaz de France 1950-66; Senator for the Dordogne 1971-; Vice-Pres. Senatorial Finance Comm. 1971-74; Dir. Société Force et Lumière Electriques 1971-; Officier Légion d'honneur, Croix de guerre, Rosette de la Résistance. *Address:* Sénat, 75006 Paris, France.

LACRETELLE, Jacques Amaury Gaston de; French writer; b. 14 July 1888, Cormatin; s. of Amaury and Juliette (née Brouzet) de Lacretelle; m. Yolande de Naurois-Turgot 1933; two s. [illegible] d.; ed. Lycée Janson-de-Sailly, Paris; Grand Prix (Novel) of Acad. Française 1930, mem. Acad. Française 1936-; Vice-Pres. Le Figaro 1971-; Dir. Centre Universitaire Méditerranéen 1967-; Grand Croix de la Légion d'honneur. *Publications:* Silbermann (Fémina Prize) 1922, La Bonifas 1925, Lettres espagnoles 1929, Amour nuptial 1930, Les hauts ponts, 4 vols.: Sabine, Les fiançailles, Années d'espérance, La monnaie de plomb 1932-35, L'écrivain public 1936, Crojsières en [illegible] troublées 1939, Le Demi-Dieu ou le voyage en Grèce, Libérations 1945, Le pour et le contre 1946, Idées dans un chapeau 1946, Deux coeurs simples 1953, Tiroir secret, Les maîtres et les amis 1959, La galerie des amants, Talleyrand 1964, Racine

1970, Portraits d'autrefois, figures d'aujourd'hui 1973, Journal de bord 1974; trans. into French: Precious Bane (Mary Webb), Wuthering Heights (Emily Brontë). *Address:* 49 rue Vineuse, 75016 Paris, France.

LACY, George Arthur; Canadian motor industry executive; b. 26 Jan. 1921, Toronto; s. of the late William and Mary Lacy; m. Pauline Adela de Laurier 1949; one s. two d.; ed. Univ. of Toronto and Chrysler Inst. of Engineering; Gen. Plants Man., Chrysler Canada Ltd. 1972-73, Vice-Pres. Mfg. 1973-76; Deputy Man. Dir. Chrysler U.K. Ltd. Feb.-Oct. 1976, Man. Dir. and Chief Exec. Officer 1976-79. *Address:* c/o Chrysler United Kingdom Ltd., Whitley, Coventry, CV3 4GB, Warwickshire, England.

LADAS, Ioannis; Greek retired army officer and politician; b. 9 Sept. 1920, Dyrrachion, Arcadia; s. of Elias and Chariklia Ladas; m. Ephrosyni Ladas 1949; one s. one d.; ed. Cadet Coll., Infantry School, Fort Menning Infantry School, U.S.A., Supreme War Coll. and Gen. Education School; commissioned 1940, Col. 1965; Chief of Hellenic Mil. Police 1966; participated in army coup 1967; retired from army with rank of Brig. 1968; Sec.-Gen. Ministry of Public Order 1967-68, Ministry of Interior 1968-71; Deputy Minister of Regional Admin., Thessali dist. 1971-72; Minister of Social Services 1972-73; arrested Oct. 1974, sentenced to life imprisonment for high treason and 10 years' imprisonment for insurrection Aug. 1975.

LADGHAM, Bahi; Tunisian politician; b. 10 Jan. 1913, Tunis; joined Dept. of Interior 1933, subsequently moved to Finance Dept.; Sec.-Gen. Socialist Desturian Party (fmrly. Neo-Destur Party) 1953-73; Sec. of State for the Presidency and Sec. of State for Defence 1956-69; Prime Minister of Tunisia Nov. 1969-Nov. 1970; Chair. Arab Cttee. supervising the cease-fire between Jordanian Govt. and the Palestinians in Jordan Sept. 1970-April 1971; fmr. personal rep. of Pres. Bourguiba; resgnd. from Party and Nat. Assembly March 1973. *Address:* c/o The Presidency, Tunis, Tunisia.

LAFAURIE, Jean; French numismatist; b. 21 Nov. 1914. Bordeaux; Prof. École pratique des Hautes Etudes de la Sorbonne; Dir. Soc. for Study of History of Paper Money 1944-; Keeper Cabinet des médailles, Nat. Library, Paris 1946-; Dir. Revue Numismatique 1958-; Past Pres. Soc. Nat. Antiquaires de France, French Numismatic Soc.; Hon. mem. Int. Numismatic Comm., Inst. Grand-Ducal de Luxembourg, Belgian, Netherlands and Swiss Numismatic Socs.; Royal Numismatic Soc. Medal, Archer M. Huntington Medal of American Numismatic Soc. *Publications:* Les monnaies des rois de France (2 vols.) 1951, 1956, Monnaies romaines du Bas Empire, Monnaies merovingiennes, Monnaies carolingiennes, Monnaies françaises; over 500 articles. *Address:* 3 rue de l'Abbé Guilleminault, 94130 Nogent-sur-Marne, France. *Telephone:* 871-15-72.

LAFÉE, Alfredo; Venezuelan civil engineer and banker; b. 21 March 1921, Caracas; m. Ines Dominici de Lafée; four c.; ed. Venezuela Central Univ; Engineer, public drainage and water supply dept. of Ministry of Public Works 1941-44, in charge of works inspection 1945-47; Chief of Technical Dept. Caracas Drainage Works, Nat. Inst. of Sanitary Works 1947-51; (Ad Honorem) comm. for widening Avenida Sucre 1950-53; mem. Municipal Council 1958-59; Dir. of Construction, Caracas and Maracaibo Urban Devt. 1951-66; mem. Board of Venezuelan Chamber of Bldg. 1960-62, represented Board in numerous Fed. Comms. 1960-63, Pres. 1962-64; Dir.-Gen. Banco Hipotecario de la Vivienda Popular S.A. 1962-68, First Vice-Pres. and Dir. 1968-71; mem. El Conde Perm. Devt. Comm. 1963-64; mem. Council of Inter-american Fed. of Bldg. Industry 1962-64; Deputy Nat. Congress 1964-69; mem. Board Venezuelan Fed. of Chambers of Commerce and Industry (FEDECAMARAS) 1962-64, First Vice-Pres. 1964-67, Pres. 1967-69, Perm. Assessor 1969-, Prin. mem. Board 1972-; mem. Ad Honorem Comm. for enquiry into the working of the Stock Market 1969-71; M.P. for the State of Miranda 1969-71; mem. Board Cen. Office for Co-ordination and Planning (CORDIPLAN) 1970, Nat. Energy Council 1971, Board of Foreign Trade Inst. 1971, Nat. Banking Council 1971, Nat. Council of Asociación Pro-Venezuela 1971; Pres. Banco Central de Venezuela 1971-76; Governor, IMF 1971; Pres. Gov. Council of CEMLA 1972; Del. numerous int. confs.; Orden Francisco de Miranda 1st Class, Merito Industrial del Brasil 2nd Class. *Address:* FEDECAMARAS, Edif. Fedecámaras, 5°, Avda. El Enpalme, Urb. El Bosque, Apdo. 2568, Caracas, Venezuela.

LAGACOS, Eustache P.; Greek diplomatist; b. 4 June 1921, Athens; m. Claire Lagacos 1949; one d.; ed. Law Faculty of Athens Univ; Mil. service 1946-49; Embassy Attaché, Ministry of Foreign Affairs 1949-51, Third Sec. 1951-52; Vice-Consul, Paris 1952; Perm. Del. to NATO, Paris 1952-55; Foreign Ministry 1955; Consul, Istanbul 1956-59; Foreign Ministry 1959; Counsellor, Nicosia 1960-64; Foreign Ministry 1964, Chef de Cabinet 1965; Counsellor, London 1967; Minister Plenipotentiary 1969; Amb. to Cyprus 1972-74; Dir.-Gen. Econ. Affairs, Foreign Ministry 1974-76; Amb. to NATO, Brussels 1976-. *Publications:* Two Lectures on G. Seferis (in Greek). *Leisure interest:* classical music. *Address:* Square du Bois, 571 avenue Louise, 1050, Brussels, Belgium. *Telephone:* 648-81-98.

LAGASSE, Raphael; Belgian international official; b. 20 Dec. 1927, Brussels; ed. Catholic Univ. of Louvain; Sec.-Gen., Int. Org. of Employers 1960-; Belgian Civic and Military Orders. *Address:* 26 Chemin de Joinville, 1216 Geneva, Switzerland (Office).

LAGERCRANTZ, Olof, PH.D.; Swedish journalist; b. 10 March 1911, Stockholm; s. of Carl and Agnes (née Hamilton) Lagercrantz; m. Martina Ruin 1939; three s. two d.; Cultural Ed., Dagens Nyheter 1951-60, Chief Ed. 1960-75; Prize of Nordic Council (jointly) 1965. *Publications:* Från helvetet till paradiset 1964, Den pågående skapelsen 1966, Att finnas till 1970, China-Report 1971, Tretton lyriker o fågeltruppen 1973, Enhörningen 1977; biographies and collections of poems and essays. *Leisure interest:* writing. *Address:* Dagens Nyheter, 105 15 Stockholm, Sweden.

LAGERFELT, Baron Karl-Gustav; Swedish diplomatist; b. 21 Nov. 1909, Jönköping; s. of Baron G. A. Lagerfelt and Baroness G. von Essen; m. 1st Sara Champion de Crespigny 1947 (died 1967), one s. one d.; m. 2nd Monique Suetens 1974; Foreign Service 1935-, Helsinki, London, Foreign Office, London, Paris; Envoy Tokyo 1951-56; Amb. to ECSC 1957-63, to EURATOM and EEC 1959-63; Amb. to Austria 1964-69, to Netherlands 1969-72; Amb. and Perm. Rep. to UN, Geneva, Del. to EFTA and other int. orgs. Geneva 1972-75; Vice-Chair. EFTA Council Jan.-June 1973; Vice-Chair. Swedish Del. to UNCTAD 1976; Pres. Trade and Devt. Board (UNCTAD) 1976-77. *Address:* 18 rue Herder, 67000 Strasbourg, France.

LAGERGREN, Gunnar Karl Andreas; Swedish judge; b. 23 Aug. 1912, Stockholm; m. Nina von Dardel 1943; s. three d.; ed. Stockholm Univ.; Arbitrator, Int. Chamber of Commerce, Paris 1949-; Judge, Stockholm Court of Appeal 1957-66; Pres. Court of Appeal for Western Sweden, Göteborg 1966-77; Judge, European Court of Human Rights, Strasbourg 1977-; Pres. Comm. on Int. Commercial Practice of Int. Chamber of Commerce 1951-67; Pres. Supreme Restitution Court, Fed. Repub. of Germany 1964-; Pres. of Italian-Somali Arbitration Tribunal in Mogadishu 1964; Chair. Indo-Pakistan Western Boundary Tribunal, Geneva 1965-69; Vice-Pres. Arbitration Comm. on Property Rights and Interests in Germany, Koblenz 1956-69; Int. Court, Tangier 1953-56; mem. Permanent Court of Arbitration, The Hague 1966-; Dr. h.c. (Uppsala Univ.) 1965. *Address:* c/o European Court of Human Rights, avenue de l'Europe, 67006 Strasbourg, France.

LAGHZAOUI, Mohammed; Moroccan diplomatist; b. 27 Sept. 1906, Fez; s. of Mme Laghzaoui (née Chraïbi); m. Kenza Bouayad 1940; three s. three d.; ed. Coll. Moulay Idriss, Fez; fmr. Chair. Soc. marocaine des Transports Laghzaoui; mem. and Chair. Govt. Council during French Protectorate; one of 69 principal signatories to Over Act of Independence June 1944; Dir.-Gen. of Nat. Security 1956-60; Dir.-Gen. Office Chérifien des Phosphates; Co-ordinator, Nat. Mining and Industrial Cos.; responsible for Ministries of Industry, Mining, Tourism and Handicrafts 1965; Pres. Afro-Asiatic Assen. for Econ. Devt. 1966-69; Amb. to U.K. 1969-71, to France 1971-72; Cordon de l'Istiqlal (Tunisia and Jordan), other honours from Iraq, Belgium and Senegal, Ouissam El Oula (1st Class), Commdr. Order of the Crown, Grand Officier Légion d'honneur. *Leisure interests:* bridge, football. *Address:* Résidence Laghzaoui, Route de Suissi, Rabat, Morocco.

LAGRANGE, Maurice, L. EN D.; French lawyer; b. 14 May 1900, Meudon; s. of Roger and Claire (née Gillet) Lagrange; m. Colette Ackerman 1930; one s.; ed. Lycée Charlemagne, Paris, Paris Univ., and Ecole Libre des Sciences Politiques; Auditeur, Conseil d'Etat 1924, Maître des Requêtes 1934; Conseiller d'Etat 1945-70, Hon. Conseiller 1970-; retd.; Legal Expert, French Del. during negotiations setting up ECSC 1950; Advocate-Gen., ECSC Court 1952-58, Court of the European Communities 1958-64; Commdr. de la Légion d'honneur. *Publications:* La cour de justice de la Communauté européenne du charbon et de l'acier 1954, L'ordre juridique de la CECA vu à travers la jurisprudence de sa cour de justice 1958, Les pouvoirs de la haute autorité 1961 (all in Revue du droit public et de la science politique), The Role of the Court of Justice through its Case Law 1961, and articles in professional journals. *Address:* 18 avenue de la Bourdonnais, 75007 Paris, France. *Telephone:* 551-59-42.

LAGU, Joseph; Sudanese army officer; b. 21 Nov. 1931; s. of Yakobo Yanga and Marini Kaluma; ed. Rumbek Secondary School,

Mil. Acad. Omdurman; served in Sudanese Army 1960-63; joined South Sudan Liberation Movt. 1963, Leader SSLM 1969; signed peace agreement with Govt. of Sudan March 1972; Pres. Supreme Exec. Council for the South 1978-; Order of the Two Niles 1972. *Publication:* The Anya-Nya—what we fight for 1972. *Address:* High Executive Council, Southern Region, Juba, Sudan. *Telephone:* 2001.

LA GUMA, Justin Alexander (Alex); South African author and journalist; b. 20 Feb. 1925, Cape Town; ed. Trafalgar High School, Cape Town, Cape Technical School, Cape Town, and London School of Journalism; mem. of CP 1948-50; mem. Nat. Exec. Coloured People's Congress 1955-; banned from gatherings in S. Africa and South West Africa 1962; under house arrest Dec. 1962; detained in solitary confinement 1963, 1966; left S. Africa in exile Sept. 1966; now freelance writer and mem. Editorial Board, Afro-Asian Writers' Bureau 1968-; Deputy Sec.-Gen. Afro-Asian Writers' Assn. 1973-; Afro-Asian "Lotus" Award for Literature 1970. *Publications:* A Walk in the Night 1962, And a Threefold Cord 1965, The Stone Country 1968, In The Fog of the Season's End 1972 (novels); editor Apartheid (anthology) 1972. *Address:* 36 Woodland Gardens, London, N.10, England.

LAHR, Rolf; German diplomatist; b. 6 Nov. 1908, Marienwerder; s. of Paul and Johanna Lahr; ed. Univs. of Berlin, Giessen, and Freiburg/Br.; Foreign Trade Div., Ministry of Econs. 1934-42; mil. service 1942-45; Man. Fruit and Vegetable Processing Industry Assn. for Schleswig-Holstein 1945-49; Foreign Trade Div., Ministry of Econs. 1949-53, Counsellor 1951-; Foreign Office 1953-61; Amb. and Del. in German-French negotiations 1956; German-Soviet negotiations 1957-58, German-Netherlands negotiations 1958-60, German-Scandinavian air traffic 1959-60; Perm. Rep. to EEC Brussels 1961; State Sec. for Foreign Affairs 1961-69; Amb. to Italy 1969-74; Amb. and Perm. Rep. to FAO 1974-75; Iron Cross (1st Class) 1943, Grand Cross (2nd Class) of the Order of Merit 1963, and other foreign orders. *Leisure interests:* literature on history and fine arts, classical music, antique furniture and ceramics, travel. *Address:* Via Aventina 35, Rome, Italy (Home). *Telephone:* 574-0826 (Home).

LAIDLAW, Christophor Charles Fraser; British oil executive; b. 9 Aug. 1922, Calcutta, India; s. of late Hugh Alexander Lyon Laidlaw and Sarah Georgina Fraser; m. Nina Mary Prichard 1952; one s. three d.; ed. Rugby School and St. John's Coll. Cambridge; served War of 1939-45, Europe and Far East, Maj. on Gen. Staff; joined British Petroleum Co. Ltd. (BP) 1948, BP rep. in Hamburg 1959-61, Gen. Man. Marketing Dept. 1963-67, Dir. BP Trading 1967, Pres. BP Belgium 1967-71, Dir. (Operations) 1971-72, Chair. BP Germany 1972-, Man. Dir. BP Co. Ltd. 1972-, Chair. BP Oil 1977-; Dir. Commercial Union Assurance Co. 1978-. *Leisure interest:* fishing. *Address:* British Petroleum Co. Ltd., Britannic House, Moor Lane, London, E.C.2, England. *Telephone:* 01-920 7238.

LAIN ENTRALGO, Pedro, M.D., CH.B., Spanish physician and educator; b. 15 Feb. 1908, Urrea de Gaén; m. Milagro Martínez Prieto; ed. Univs. of Zaragoza, Valencia, Madrid and Vienna; Prof. of History of Medicine, Madrid Univ. 1942-, Rector of Univ. 1951; mem. Real Acad. Nacional de Medicina 1946, Real Acad. Española 1954, Real Acad. de la Historia 1962; mem. Akad. der Wissenschaften, Heidelberg; Hon. Prof. Univ. of Santiago, Chile, Dr. h.c. (San Marcos, Lima, Toulouse). *Publications:* Menéndez Pelayo 1944, La Generación del Noventa y Ocho 1945, La Historia Clínica 1950, Historia de la Medicina 1954, Mind and Body (London 1955), España como Problema 1956, La espera de la esperanza 1956, La curación por el palatre en la Antigüedad clásica 1958, Teoría y Realidad del otro 1961. *Address:* c/o Real Academia Nacional de Medicina, Arrieta 12, Madrid, Spain.

LAINE, Jermu Tapani, BARR.-AT-LAW; Finnish politician; b. 17 Sept. 1931, Turku; s. of Johan Artturi Laine and Helmi Emilia Heinonen; m. Terttu Anneli Kallio 1954; three d.; Extraordinary Dept. Sec. Ministry of Trade and Industry 1955; Extraordinary Referendary of the Govt.; Extraordinary Senior Referendary, Ministry of Trade and Industry 1958; Senior Govt. Sec. 1961; Commercial Counsellor, Ministry of Trade and Industry 1961; Teacher of Commercial Law and Commerce, Valkeakoski Commercial Coll. 1965; Headmaster of Mänttä Commercial Coll. 1969; Political Sec. to Prime Minister 1972; Minister for Foreign Trade 1973-75. *Publications* (in Finnish): Living in Work and Equality 1971, Basics of Economic Policy 1972, and many articles in specialized periodicals. *Leisure interests:* politics, cinema, theatre. *Address:* Haapaniemenkatu 20 D 60, 00530 Helsinki 53, Finland. *Telephone:* 1601 (Office).

LAING, Sir Hector, Kt.; British company executive; b. 15 May 1923, Edinburgh; s. of Hector Laing and Margaret Norris Grant; m. Marian Clare Laurie 1950; three s.; ed. Loretto School, Musselborough, and Jesus Coll., Cambridge; joined McVitie & Price Ltd. as a Dir. 1947, Chair. 1963-64; Dir. of United Biscuits Ltd. 1953, Man. Dir. 1964-; Chair. United Biscuits (Holdings) Ltd. 1972-; Council mem. Inst. of Dirs. 1969-75; mem. Intervention Board for Agric. Produce 1972-75; Chair. Food & Drink Industries Council 1977-79; Dir. Court of Bank of England 1973-, Royal Insurance Co. 1970-78, Allied Breweries Ltd. 1979-, United Biscuits 1979-; Bronze Star (U.S.A.). *Leisure interests:* gardening, fishing, flying, shooting. *Address:* High Meadows, Windsor Road, Gerrards Cross, Bucks., England. *Telephone:* Gerrards Cross 82437.

LAING, Sir (John) Maurice, Kt.; British building and civil engineering contractor; b. 1 Feb. 1918, Carlisle; s. of Sir John (William) Laing, C.B.E., and Lady Laing; m. Hilda Violet Richards 1940; one s.; ed. St. Lawrence Coll., Ramsgate; served with R.A.F. 1941-45; Dir. Bank of England 1963-; Chair. Fed. of Civil Eng. Contractors 1959-60, Vice-Pres. 1960-77, Pres. 1977-; Pres. British Empolyers' Confed. 1964-65, CBI 1965-66; Chair. Export Group for the Constructional Industries 1957-59, Pres. 1976-; Chair. John Laing Ltd. and Deputy Chair. Laing Properties Ltd.; mem. U.K. trade missions to Middle East 1953, to Egypt, Sudan and Ethiopia 1955; mem. Export Credits Guarantees Advisory Council 1959-63, Econ. Planning Board 1961, Ministry of Transport Cttee. of Inquiry into major ports of Great Britain (Rochdale Cttee.) 1961-62, NEDC 1962-66; Visiting Fellow, Nuffield Coll. 1965-70; Gov. Admin. Staff Coll. 1966-72, Nat. Inst. of Econ. and Social Research 1964-; Hon. LL.D. (Strathclyde) 1967; Commodore, Royal Ocean Racing Club 1973-75, Admiral 1976-. *Leisure interests:* keen interest in church activities at home and abroad, sailing and swimming. *Address:* Reculver, 63 Totteridge Village, London, N20 8AG, England (Home).

LAING, R(obert) Stanley, B.S.MECH.ENG., M.B.A.; American business executive; b. 1 Nov. 1918, Seattle; s. of Robert Vardy Laing and Marie (Scott) Laing; m. Janet Emmott Orr 1947; one s. four d.; ed. Univ. of Washington and Harvard Business School; Nat. Cash Register Co., Dayton, Ohio 1947-72; Special Asst. in Exec. Office 1947-49; Asst. to Comptroller 1949; Gen. Auditor 1950-53; Asst. Comptroller 1953-54; Comptroller 1954-60; Vice-Pres. (Finance) 1960-62, Exec. Vice-Pres. 1962-64, Pres. 1964-72; Dir. and Chair. Business Equipment Mfg. Assn. 1963-64; fmr. Dir. Gen. Mills Inc., Mead Corpn., NCR Corpn.; Dir. Cincinnati Milacron Inc., Armco Corpn., B. F. Goodrich Co., Sinclair Community College Foundation; Chair. Board of Trustees, Denison Univ.; Trustee, Univ. of Dayton; Order of Lateran Cross (Vatican). *Address:* Suite 2850, Winters Bank Tower, Dayton, Ohio 45402 (Office); 245 W. Thurston Boulevard, Dayton, Ohio 45419, U.S.A. (Home). *Telephone:* 513-223-8835 (Office).

LAING, Ronald David, M.B., CH.B., D.P.M.; British psychiatrist; b. 7 Oct. 1927; s. of D. P. M. and Amelia Laing; ed. Univ. of Glasgow; Glasgow and West of Scotland Neurosurgical Unit 1951; Cen. Army Psychiatric Unit, Netley 1951-52; Psychiatric Unit, Mil. Hosp., Catterick 1952-53; Dept. of Psychological Medicine, Univ. of Glasgow 1953-56; Tavistock Clinic 1956-60; Tavistock Inst. of Human Relations 1960-, Prin. Investigator, Schizophrenia and Family Research Unit 1964-67; Fellow, Foundations Fund for Research in Psychiatry 1960-67; Dir. Langham Clinic for Psychotherapy 1962-65; Fellow, Tavistock Inst. of Medical Psychology 1963-64; Chair. Philadelphia Assn. Ltd. 1964-. *Publications:* The Divided Self 1960, The Self and Others 1961, co-author Reason and Violence (introduced by J.-P. Sartre) 1964, co-author Sanity, Madness and the Family 1965, co-author Interpersonal Perception 1966, The Politics of Experience and the Bird of Paradise 1967, Knots 1970, The Politics of the Family 1971, The Facts of Life 1976, Do You Love Me? 1976, Conversations with Adam and Natasha 1977. *Address:* 2 Eton Road, London, N.W.3, England. *Telephone:* 01-722 9448.

LAING, Stanley (*see* Laing, Robert Stanley).

LAIRD, Melvin Robert; American government official; b. 1 Sept. 1922, Omaha, Neb.; s. of Melvin and Helen (Connor) Laird; m. Barbara Masters 1945; two s. one d.; ed. Carleton Coll., Northfield, Minn; served in U.S. Navy in Pacific, Second World War; mem. Wisconsin Senate 1946-52; mem. U.S. House of Reps. 1952-69, served on Appropriations Cttee.; U.S. Sec. of Defense 1969-73; Counsellor to Pres. for Domestic Affairs 1973-74; Senior Counsellor for Nat. and Int. Affairs, Readers' Digest Assn. 1974-; Republican. *Publications include:* A House Divided: America's Strategy Gap 1962, The Conservative Papers (Editor) 1964, Republican Papers 1968. *Address:* 1730 Rhode Island Avenue, N.W., Washington D.C. 20036, U.S.A. (Office).

LAITHWAITE, Sir John Gilbert, G.C.M.G., K.C.B., K.C.I.E., C.S.I., M.A.; British civil servant (retd.); b. 5 July 1894, Dublin; elder s. of J. G. Laithwaite; ed. Clongowes and Trinity Coll., Oxford; served in France 1917-18 (wounded); India Office 1919; Private Sec. to Parl. Under-Sec. 1922-24; Asst. Private Sec. to Secs. of State 1924, Principal 1924; attached to Prime Minister for Second Indian Round Table Conf. 1931; Sec. Indian Franchise Cttee. 1932, Indian Delimitation Cttee. 1935-36; Private Sec. to Viceroy of India 1936-43; Sec. to Gov.-Gen. of India 1937-43; Asst. Under-Sec. of State for India 1943; an Under-Sec. (Civil) of the War Cabinet 1944-45; Deputy Under-Sec. of State for Burma 1945-47, for India 1947; Deputy Under-Sec. of State for Commonwealth Relations 1948-49; U.K. Rep. to Repub. of Ireland 1949-50, Amb. 1950-51; High Commr. for the U.K. in Pakistan 1951-54; Perm. Under-Sec. of State for Commonwealth Relations 1955-59 (retd.); Chair. Council of Royal Cen. Asian Soc. 1964-66, Vice-Pres. 1967-75; Pres. Hakluyt Soc. 1964-69, Royal Geographical Soc. 1966-69; Dir. and Deputy Chair. Inchcape and Co. Ltd. 1960-64, Dir. 1964-69, Dir. Inchcape Overseas Ltd. 1969-; mem. Standing Comm. on Museums and Galleries 1959-61; Renter-Warden, Tallow-Chandlers Co. 1969, Warden 1970, Master 1972; Hon. Fellow, Trinity Coll., Oxford 1955; Hon. LL.D. (Dublin) 1957; Freeman, City of London 1960; Knight of Malta 1960. *Publications:* The Laithwaites, Some Records of a Lancashire Family 1941, Miscellaneous Genealogical Notes 1943, Memories of an Infantry Officer—21st March 1918 1971. *Address:* c/o Grindlays Bank Ltd., 13 St. James's Square, London, S.W.1, England.

LAJOUS MARTÍNEZ, Adrián, LL.B.; Mexican export official and international negotiator; b. 25 Jan. 1920, Buenos Aires, Argentina; s. of Adrian Lajous Nelson and Evangelina Martínez de Lajous; m. Luz Vargas de Lajous 1943; four c.; ed. Univ. of Mexico and New York Univ; Officer, private radio stations and networks 1941-49, Vice-Chair. Board, Nucleo Radio Mil. group of radio stations 1949-; Gen. Counsel and Head of Credit Dept., Patronato del Ahorro Nacional 1950-52; Officer Banco Nacional de Comercio Exterior 1953-58; Dir.-Gen. Federación Interamericana del Algodón 1959-63; Minister-Counsellor, Mexican Embassy, Washington, D.C. 1956, Commercial Counsellor, London 1964; Export Man. Unión Nacional de Productores de Azúcar 1965-67; Mexican Rep. Int. Coffee negotiations 1962-67; Dir. Banco Nacional de Comercio Exterior 1967-; Chair. Board, Int. Sugar Org. 1969-; Exec. Dir. IBRD, IFC and IDA 1970-72; Dir.-Gen. Fondo de Equipamiento Industrial 1973-76; Dir.-Gen. Instituto Mexicano de Comercio Exterior 1976-. *Leisure interest:* bridge. *Address:* Guadalquivir 68, México 5, D.F., Mexico. *Telephone:* 514-98-58.

LAKAS BAHAS, Ing. Demetrio Basilio; Panamanian administrator and politician; b. 29 Aug. 1925, Colón; s. of Basilio Demetrio Lakas and Zaharo Bahas de Lakas; m. Elizabeth Fannia Roger de Lakas 1959; two s. one d.; ed. Texas Wesleyan Coll. and Texas Technical Coll.; fmr. Dir. of Social Security; Pres. of Provisional Govt. Council 1969-72; Pres. of Panama. *Leisure interests:* sailing, fishing. *Address:* c/o Palacio de las Garzas, Panama City, Panama.

LAKER, Sir Frederick Alfred, Kt.; British business executive; b. 6 Aug. 1922; ed. Simon Langton School, Canterbury; worked for Short Bros., Rochester 1938-40; Gen. Aircraft 1940-41; served with Air Transport Auxiliary 1941-46; with Aviation Traders 1946-60; British United Airways 1960-65; Chair. and Man. Dir., Laker Airways Ltd. 1966-. *Address:* c/o Laker Airways, Gatwick Airport, Horley, Surrey. *Telephone:* 01-668 9363.

LAKER, James (Jim) Charles; British cricketer; b. 9 Feb. 1922, Bradford; m. Lilly Gingold 1951; two d.; ed. Salts High School, Shipley; army service, Middle East 1940-45; played cricket for Surrey 1946-59, Essex 1962-63; right-arm off-spin bowler; played in 44 Test Matches for England, taking 193 wickets; best bowling performances, 8 wickets for 2 runs 1950, 19 wickets for 90 runs against Australia (world record) 1956; 4 hat tricks; BBC Cricket Commentator 1969-; cricket journalist, Daily Express 1975-; BBC Sportsman of the Year 1956. *Publications:* Spinning Round the World 1957, Over to Me 1960, Australian Tour of 1961 1962, One Day Cricket 1977. *Leisure interest:* golf. *Address:* Oak End, 9 Portinscale Road, Putney, London S.W.15, England. *Telephone:* 01-874 2133.

LAKING, George Robert, C.M.G., LL.B.; New Zealand diplomatist; b. 15 Oct. 1912, Auckland; s. of Robert and Alice (née Wilding) Laking; m. Pat Hogg 1940; one s. one d.; ed. Auckland Grammar School, and Auckland and Victoria Univs; Prime Minister's and External Affairs Depts. 1940-49; Counsellor, New Zealand Embassy, Washington 1949-54, Minister 1954-56; Deputy Sec. of External Affairs, Wellington 1956-58; Acting High Commr. for New Zealand in London 1958-61; Amb. to EEC 1960-61, to U.S.A. 1961-67; Perm. Head of Prime Minister's Dept. and Sec. of Foreign Affairs 1967-72; Parl. Commr. (Ombudsman) 1975-77, Chief Ombudsman 1977-; Vice-Pres. Inst. of Int. Affairs; Chair. board of N.Z.-U.S. Educ. Foundation. *Address:* 3 Wesley Road, Wellington, New Zealand.

LAL, Bansi, LL.B.; Indian politician; b. 10 Oct. 1927, Golagarh, Bhiwani District; s. of Ch. Mohar Singh; two s. four d.; ed. privately and Law Coll., Jullundur; took part in Praja Mandal Movement, Loharu State; Sec. Loharu Praja Mandal 1943-44; Gen. Sec. Tosham Mandal Congress Cttee. 1955; Pres. Mandal Congress Cttee., Kural 1959-60; mem. Punjab PCC 1959-62, Rajva Sabha 1960-66, Haryana Ass. 1967; Chief Minister Haryana 1968-75; Minister without portfolio, Govt. of India Nov.-Dec. 1975, Minister of Defence 1975-77; arrested on charges of corruption, expelled from Indian Nat. Congress April 1977, conduct during Emergency subject to Comm. of Enquiry July 1977; Hon. LL.D. (Kurukshetra) 1972, Hon. D.Sc. (Haryana Agric. Univ.) 1972. *Address:* Chandigarh 160017, Haryana State, India.

LAL, Bipen Behari, M.SC.; Indian state governor; b. 30 Jan. 1917, Allahabad, Uttar Pradesh; ed. St. Stephens Coll. Delhi, Allahabad Univ., Harvard Univ.; Indian Civil Service 1941-; magistrate successively in Gorakhpu, Varanasi and district of Hardoi and Dehra Dun 1942-51; successively Joint Sec. for Finance, Sec. for Finance, Commr. and Sec. for Irrigation and Power Govt. of Uttar Pradesh (U.P.); Chair. U.P. State Electricity Board; mem. U.P. Univs. Comm. and U.P. Pay Rationalization Comm.; Fellow, Harvard Univ. 1951-66; Chief Sec. Govt. of U.P. 1967-69; Addition Sec. Ministry of Finance, Govt. of India 1969-70, Sec. Dept. of Personnel 1970-71, Sec. Ministry of Industrial Devt. 1971-73, Sec. Ministry of Commerce 1973; Adviser to Gov. of U.P. 1973; Sec. of Planning Comm., Govt. of India 1973-74; Chief Exec. of Sikkim 1974-75, Gov. of Sikkim June 1975-. *Address:* Raj Bhavan, Gangtok-737 101, Sikkim, India.

LALBHAI, Kasturbhai; Indian industrialist; b. 19 Dec. 1894; ed. Gujarat Coll., Ahmedabad; Vice-President Ahmedabad Millowners' Assn. 1923-26, Pres. 1933-35; mem. Central Legislative Assembly 1923-26; Del. Int. Labour Conf. Geneva 1929 and 1934; Pres. Fed. of Indian Chamber of Commerce 1934-35; Consultative mem. British Indian Trade Del. to U.K. 1937; fmr. Dir. Reserve Bank of India; Adviser to Govt. of India in Indo-Burman Trade Negotiations 1940; mem. Scientific and Industrial Research Board 1940; mem. Textile Control Board 1943; mem. Indian Del. to Cairo Cotton Conf. 1943; Rep. of Govt. of India on Textile Cttee. of Combined Production and Resources Board, Washington 1946; Head Indian Del. to Int. Cotton Textile Industry Conf. Manchester 1952; Head Indian Del. to U.S.S.R. 1954; Leader and Pres. of Jain Community in India; now Dir. in nine concerns: textiles, dyes, chemicals and pharmaceuticals; mem. Cen. Advisory Council Govt. of India 1953-; Chair. Nat. Research and Devt. Corpn. 1954-; Chair. Western Regional Cttee., All-India Council for Technical Educ. 1955-; Chair. Inst. of Technology, Bombay 1955-65; mem. Senate Gujarat Univ.; Chair. Indian Cotton Mills Fed. 1956; Padma Bhushan 1968. *Address:* Pankore's Naka, Ahmedabad (Office); Lalbag, Shahibag, Ahmedabad, India (Home).

LALL, Arthur Samuel, M.A.; Indian teacher and diplomatist; b. 14 July 1911, Lahore; s. of Parmanand and Zoe (Lewis) Lall; m. Betty Goetz 1963; one d.; ed. Punjab and Oxford Univs.; Apptd. to Indian Civil Service and served in the Punjab and with central Govt.; Commercial Counsellor, High Comm., London 1947-51; Consul-Gen., with rank of Minister, New York 1951-54; Perm. Rep. to UN 1954-59; Chair. UN Mission to Samoa 1959; Amb. to Austria 1959-63; Lecturer, Cornell Univ. 1963-; Prof. of Int. Relations, Columbia Univ., New York 1965-; Chair. Common Heritage Int.; Consultant, UN Inst. for Training and Research, New York; Del. to UN Econ. and Social Council and Trusteeship Council; Del. to numerous econ. confs. *Publications:* Modern International Negotiation 1966, How Communist China Negotiates 1968, The UN and the Middle East Crisis 1969, The Security Council in a Universal United Nations 1971; numerous articles on int. affairs; short stories. *Leisure interest:* writing novels (two novels published). *Address:* 230 East 81st Street, New York, N.Y. 10028, U.S.A.

LALLA AICHA, H.R.H. Princess; Moroccan diplomatist; eldest daughter of the late King Mohammed V. Amb. to U.K. 1965-69, to Italy 1969-73 (also accred. to Greece); Pres. Moroccan Red Crescent; Grand Cordon of Order of the Throne. *Address:* c/o Ministry of Foreign Affairs, Rabat, Morocco.

LALONDE, Marc, Q.C., P.C., M.P., LL.L., M.A.; Canadian lawyer and politician; b. 26 July 1929, Ile Perrot; s. of J. Albert and Nora (St. Aubin) Lalonde; m. Claire Tétreau 1955; two s. two d.; ed. St.

Laurent Coll., Montreal and Univs. of Montreal and Oxford; called to the Bar, Quebec 1955; Prof. of Commercial Law and Econs., Univ. of Montreal 1957-59; Special Asst. to Minister of Justice 1959-60; Partner, Gélinas, Bourque, Lalonde & Benoit, Montreal 1960-68; Policy Adviser to Rt. Hon. Lester B. Pearson 1967-68; Principal Sec. to Prime Minister 1968-72; Minister of Nat. Health and Welfare 1972-77, responsible for the Status of Women 1975-79, for Federal-Provincial Relations 1977-78, of Justice and Attorney-Gen. of Canada 1978-79. *Leisure interests:* tennis, skiing, swimming, reading. *Address:* House of Commons, Parliament Buildings, Ottawa, Ont., Canada.

LALOR, Patrick Joseph; Irish politician; b. 21 July 1926, Dublin; s. of Joseph and Frances Lalor; m. Myra Murphy 1952; one s. three d.; ed. in Abbeyleix and Knockbeg Coll., Carlow; fmr. mem. Laois County Council and fmr. exec. mem. Retail Grocery, Dairy and Allied Trades Assn. (RGDATA); mem. Dáil Eireann Oct. 1961-; Parl. Sec. to Minister of Agric. and Fisheries 1965-66, to Minister for Transport, Power, Posts and Telegraphs 1966-69; Minister of Posts and Telegraphs 1969-70, for Industry and Commerce 1970-73; mem. Fianna Fáil, Chief Whip Parl. Party 1973-; Parl. Sec. to the Taoiseach (Prime Minister) and to Minister of Defence Jan.-Dec. 1977, now Minister of State at Depts. of the Taoiseach and of Defence. *Leisure interests:* hurling, Gaelic football, golf, drama. *Address:* Dáil Eireann, Dublin (Office); Main Street, Abbeyleix, Co. Laois, Ireland (Home). *Telephone:* 0502-31206 (Home).

LALOUETTE, Roger, L. ÈS L., L. EN D.; French diplomatist; b. 8 Sept. 1904, Nantes; s. of René Lalouette and Thérèse Lamoureux; two d.; ed. École des Sciences Politiques and Univ. of Paris; Attaché, Berne 1930; Sec. Vienna 1931, Prague 1935, Berlin 1936; Head, Cabinet of Ministry of Foreign Affairs 1939-40, at Rome 1940, at French Residence, Morocco 1942-44, at Dublin (French Cttee. of Nat. Liberation) 1944; Rep. to Nuremberg Trials 1946; Deputy Dir. of Personnel and Accountancy 1948-50; Deputy High Commr. to Austria 1950, Minister 1951-55; Minister, Rabat 1955-56; Amb. to the Repub. of Viet-Nam 1958-64, to Czechoslovakia 1964-69; Commdr. Légion d'honneur, Grand Officier Ordre national du Mérite, Croix de guerre. *Leisure interest:* hunting. *Address:* Ministère des Affaires Etrangères, 37 quai d'Orsay, 75007 Paris (Office); 67 rue du Maréchal Foch, Versailles, France (Home). *Telephone:* 950-32-40.

LAMA, Luciano, DOTT. IN SC. POL.; Italian trades union official; b. 14 Oct. 1921, Gambettola (Forli); s. of Domenico and Paganelli Noerri; m. Lora Bosi 1947; two d.; ed. Istituto Cesare Alfieri, Florence; Vice-Sec. Confederazione Generale Italiana del Lavoro (CGIL) 1947; Sec. Fed. of Chemical Workers 1951; Sec.-Gen. Fed. of Metal Workers (FIOM) 1957; Sec. CGIL 1961, Sec.-Gen. 1970-. *Address:* Confederazione Generale Italiana del Lavoro, Corso d'Italia 25, Rome, Italy. *Telephone:* 868841.

LaMARSH, Julia Verlyn, P.C., Q.C., LL.D.; Canadian lawyer and politician; b. 20 Dec. 1924, Chatham, Ont.; d. of Wilfrid and Rhoda (Conibear) LaMarsh; ed. Stamford, Hamilton Hormal School, Univ. of Toronto, and Osgoode Hall; Canadian Women's Army Corps 1943-45; M.P. 1960-69; Minister of Nat. Health and Welfare 1963-65; Sec. of State 1965-69; mem. law firm LaMarsh, MacBeen, Slovak, Sinclair & Nicolette 1969-; fmr. Vice-Pres. Ontario Assn. of Rural-Urban Municipalities; mem. Planning Assn. of Canada, Int. Parl. Union, Commonwealth Parl. Assn.; Liberal. *Publication:* Memoirs of a Bird in a Gilded Cage 1969. *Address:* 5992 Corwin Avenue, Niagara Falls, Ontario, Canada (Home).

LAMB, William Kay, B.A., M.A., PH.D.; Canadian librarian and archivist; b. 11 May 1904; ed. Univs. of British Columbia, Paris and London; Librarian and Archivist, Prov. Library and Archivist, Public Archives of Canada, Ottawa 1948-68 and also Nat. Librarian, Nat. Library of Canada, Ottawa 1953-68; Fellow and Past Pres. Royal Soc. of Canada; Past Pres. Canadian Library Assn., Canadian History Assn., etc.; several hon. degrees; Tyrrell Medal. *Address:* 2105-2055 Pendrill Street, Vancouver, B.C., V6G 1T9, Canada.

LAMB, Willis Eugene, Jr., PH.D., SC.D., L.H.D.; American physicist; b. 12 July 1913, Los Angeles, Calif.; m. Ursula Schaefer 1939; ed. Univ. of California; Instructor, Columbia Univ. 1938, Prof. of Physics 1948-52; Loeb Lecturer, Harvard 1953-54; Prof. of Physics, Stanford Univ. 1951-56; Wykeham Prof. of Physics and Fellow, New Coll., Univ. of Oxford 1956-62; Henry Ford II Prof. of Physics, Yale Univ. 1962-72, J. Willard Gibbs Prof. of Physics, Yale Univ. 1972-74; Prof. of Physics and Optical Sciences, Univ. of Arizona 1974-; mem. Nat. Acad. of Sciences; awarded Rumford Premium (American Acad. of Arts and Sciences) 1953; Hon. Sc.D. (Pennsylvania) 1953, Hon. L.H.D. (Yeshiva) 1964, Hon. Sc.D. (Gustavus Adolphus Coll.) 1975; Nobel Prize in Physics (shared with Prof. P. Kusch) 1955; Research Corpn. Award 1955; Guggenheim Fellow 1960. *Address:* Department of Physics, University of Arizona, Tucson, Ariz. 85721, U.S.A.

LAMBERT, Allen Thomas, O.C.; Canadian banker, b. 28 Dec. 1911, Regina, Sask.; s. of Willison A. and Sarah (Barber) Lambert; m.; one s. one d.; ed. Victoria Public and High Schools; joined Toronto Dominion Bank 1927; Supervisor, Head Office, Toronto 1949; Asst. Man., Montreal 1950; Supt., Head Office 1953, Asst. Gen. Man. 1953, Gen. Man. 1956, Vice-Pres. and Dir. 1956-, Pres. 1960-72, Chair. 1961-78, Chief Exec. Officer Toronto Dominion Bank 1972-78; Chair. Royal Comm. on Financial Man. and Accountability; Dir. of numerous cos. including Adela Investment Co. S.A., Arbuthnot Latham Holdings Ltd., Canadian World Wildlife Fund, Canadian Int. Paper Co., The Continental Corpn., Cyprus Anvil Mining Corpn., Hiram Walker-Gooderham and Worts Ltd., IBM (Canada) Ltd., Inco, Dome Mines Ltd., Dominion Insurance Corpn., Edmonton Centre Ltd., Hudson Bay Mining and Smelting Co. Ltd., London Life Insurance Ltd., Lonvest Corpn. Midland and Int. Banks Ltd., Ontario Hydro, Private Investment Corpn. for Asia (PICA) S.A., Raritan River Steel Co., Rolls-Royce Holdings N. America Ltd., Western Broadcasting Co. Ltd., Westinghouse Canada Ltd.; Board of Govs., York Univ. *Leisure interests:* golf, curling, fishing. *Address:* c/o The Toronto-Dominion Bank, 55 King Street W and Bay Street, Toronto M5K 1A2, Ont., Canada.

LAMBERT, Baron Léon Jean Gustave; Belgian banker; b. 2 July 1928; ed. Canterbury School, Yale Coll., Oxford Univ., Univ. of Geneva and Inst. of International Studies, Geneva; Chair. Groupe Bruxelles Lambert, Brussels; Dir. various cos. in Europe, U.S.A. and Canada; Officier de l'Ordre de Léopold (Belgium), Commdr. de l'Ordre à la Valeur (Cameroon), Grande Ufficiale al Merito (Italy), Grosses goldenes Ehrenzeichen (Austria). *Address:* Groupe Bruxelles Lambert, 24 avenue Marnix, 1050 Brussels, Belgium.

LAMBERT, Hon. Marcel Joseph Aimé, P.C., M.P.; Canadian lawyer and politician; b. 21 Aug. 1919, Edmonton, Alberta; s. of Joseph and Marie (Kiwit) Lambert; m. Olive Lowles 1945; three s.; ed. St. Joseph's High School, Edmonton, Alberta, Univ. of Alberta, and Hertford Coll., Oxford; Royal Canadian Army Corps 1941-45; legal practice 1951-; M.P. 1957-; Parl. Asst. Minister of Nat. Defence 1957-58; Parl. Sec. Ministry of Nat. Revenue 1959-62; Speaker, House of Commons 1962-63; mem. Privy Council 1963-; Minister of Veterans' Affairs Feb.-April 1963; Progressive Conservative. *Address:* 2249 Samuel Drive, Ottawa 8, Ontario, Canada (Home).

LAMBERT, Yves Maurice; French engineer and international official; b. 4 June 1936, Nancy, Meurthe-et-Moselle; s. of André Arthur Lambert and Paulette Franck; m. Odile Revillon 1959; three s. two d.; ed. Ecole Polytechnique, Paris, Nat. Civil Aviation School, Centre de Préparation à l'Admin. des Entreprises; Dir. Org. de Gestion et de Sécurité de l'Algérie (OGSA), Algeria 1965-68; Tech. Adviser to Minister of Transport, France 1969-72; Rep. of France to ICAO Council 1972-76; Sec.-Gen. ICAO Aug. 1976-; Chevalier, Ordre national du Mérite. *Address:* International Civil Aviation Organization, 1000 Sherbrooke Street West, Montreal, P.Q., H3A 2R2 (Office); 3216 The Boulevard, Westmount, P.Q., Canada (Home). *Telephone:* 285-8041/2 (Office).

LAMBETTI, Ellie; Greek actress; b. 1930; ed. Athens Gymnasium; first appeared in Marika Kotopouli's company in Hannele (Hauptmann) 1945; subsequently played leading roles in Blood Wedding (Lorca) 1947, The Glass Menagerie (Tennessee Williams), Antigone (Anouilh) 1948, The Heiress 1949, Shadow and Substance (P. V. Carroll) 1950, Peg o' My Heart 1951; formed own company with Dimitri Horn 1953 and has appeared in The Deep Blue Sea (Rattigan) 1953, The Moon is Blue (Herbert) 1954, Hamlet 1955, The Rainmaker (R. Nash), Gigi 1957, The Fourposter (J. de Hartog) 1958, Two for the Seesaw, La Dame aux Camélias 1959; headed own Theatre Group 1960-; has appeared in a number of films including Windfall in Athens 1954, A Girl in Black 1956, A Matter of Dignity 1958 (all directed by Michael Cacoyannis). *Address:* Sina 56, Athens, Greece.

LAMBO, (Thomas) Adeoye, O.B.E., M.B., CH.B., M.D., F.R.C.P., D.P.M.; Nigerian neuro-psychiatrist; b. 29 March 1923, Abeokuta; s. of the late Chief David Basil Lambo and Felicia Lambo; m. Dinah V. Adams 1945; three s.; ed. Baptist Boys' High School, Abeokuta, Birmingham Univ., England, London Univ. Inst. of Psychiatry; Medical Officer, Nigerian Medical Services 1950-; Govt. Specialist-in-charge, Aro Hospital for Nervous Diseases; Consultant Physician, Univ. Coll., Ibadan; Prof. and Head of Dept. of Psychiatry and Neurology, Univ. of Ibadan 1963-74, Dean of Medical Faculty

1966-68; Vice-Chancellor, Univ. of Ibadan 1968-71; Asst. Dir.-Gen. WHO 1971-73, Deputy Dir.-Gen. Nov. 1973-; [illegible] Exec. Comm. World Fed. for Mental Health 1964-; Emer. [illegible] Scientific Advisory Panel, Ciba Foundation 1966-; convened first Pan-African Conf. of Psychiatrists 1961; f. Assn. of Psychiatrists in Africa 1961; Chair. Scientific Council for Africa, UN Advisory Cttee. for Prevention of Crime and Treatment of Offenders; mem. Advisory Cttee. for Mental Health, WHO, Exec. Cttee. Council for Int. Org. for Medical Sciences, UNESCO, Expert Advisory Panel on Mental Health, WHO, WHO Advisory Cttee. for Medical Research (Geneva); [illegible] Royal Medico-Psychological Assn., U.K., Pontifical Acad. of Sciences 1974; Hon. D.Sc. (Ahmadu Bello, Nigeria, Long Island and McGill), Hon. LL.D. (Birmingham, Kent State), Dr. h.c. (Dahomey, Aix-Marseille, France, Louvain, Belgium); Haile Selassie African Research Award 1970. *Publications:* Psychiatric Disorder among the Yorubas (co-author) 1963 and [illegible] articles in various medical journals. *Leisure interests:* collection of ethnographic material [illegible] Africa, collection of art of traditional and tribal religions, and collection of ancient books [illegible] the history of medicine, on literature and philosophy. *Address:* World Health Organization, Avenue Appia, 1211 Geneva 27 (Office); Chemin des Châtaigniers 27, 1292 Chambésy, Switzerland (Home). *Telephone:* 34-60-61 (Office); 58-19-42 (Home).

LAMBRAKIS, Christos; Greek journalist and newspaper proprietor; b. 24 Feb. 1934; ed. London School of Economics; Publr. and Editor weekly Tachydromos (Courier) 1955-; succeeded father [illegible] propr. of dailies To Vima (Tribune), Ta Nea (News) and the weeklies Economicos Tachydromos (Economic Courier) 1957, Omada (The Team) 1958; Publr. monthly Epoches 1963-; Pres. Greek Section, Int. Press Inst.; in prison (Folgentros Prison Island) Nov. 1967. *Address:* Lambrakis Press, Odos Christou Lada 3, Athens, Greece. *Telephone:* 3230-221; 3237-283.

LAMBSDORFF, Graf Otto Friedrich Wilhelm von der Wenge, D.IUR.; German government official and fmr. company executive; b. 20 Dec. 1926, Aachen; ed. Univs. of Bonn and Cologne; Mil. service, prisoner of war, seriously wounded 1944-46; admitted to bar at local and dist. courts of Düsseldorf 1960; activities in credit business, rising to power of attorney for a private bank 1955-71; mem. board of dirs. of [illegible] insurance co. 1971-77; mem. Bundestag 1972-; Fed. Minister of Econs. Oct. 1977-; Free Democratic Party. *Address:* Bundesministerium für Wirtschaft, Villemombler Strasse, 5300 Bonn, Federal Republic of Germany. *Telephone:* 02221-761.

LAMBY, Werner, DR.JUR.; German business executive; b. 1 Oct. 1924, Oberwörresbach, Rheinland-Pfalz; s. of Peter and Anna Lamby; m. Gisela (née Bürfent) 1956; three s.; ed. Univs. of Heidelberg and Mainz; Civil service 1952-73; Chair. Man. Board Vereinigte Industrie-Unternehmungen AG (VIAG); Chair. and mem. of various supervisory boards. *Address:* Vereinigte Industrie-Unternehmungen AG, 53 Bonn 1, Georg-von-Boeselager-Strasse 25, Postfach 626 (Office); 53 Bonn-Bad Godesberg, Lyngsbergstrasse 19, Federal Republic of Germany (Home). *Telephone:* (02221) 33-04-18 (Home).

LAMIZANA, Lieut.-Gen. Aboubakar Sangoulé; Upper Voltan army officer and politician; b. 1916, Dianra., Tougan; s. of Kafa and Diantoro Lamizana; m. Mouilo Kékélé Bintou 1947; six c.; served in French Army in Second World War, and later in N. Africa; joined Bataillon Autonome du Soudan Nigérien, Ségou 1947; with Centre d'Etudes Africaines et Asiatiques, Paris 1950; served in Indo-China; Joint Chief of Mil. Cabinet, Ivory Coast 1956-59; Capt. 1957; served N. Africa 1959-60; Chief of Staff, Army of Upper Volta 1961, Lt.-Col. 1964, Brig.-Gen. 1967, Maj.-Gen. 1970, Lieut.-Gen. 1973; led coup to depose Pres. Maurice Yaméogo Jan. 1966; Pres. of Upper Volta 1966-79; Prime Minister 1966-71, 1974-79; Minister of Defence 1966-67, of Foreign Affairs 1966-67, of Information, Youth and Sports 1966-67, of Justice 1974-75; Grand Croix, Ordre national de Haute-Volta, Légion d'honneur, Croix de guerre, Croix de Valeur Militaire, other foreign decorations. *Leisure interest:* sport.

LAMM, Richard D., LL.B., C.P.A.; American lawyer and state governor; b. 8 Aug. 1935, Madison, Wis.; s. of A. E. Lamm; [illegible] Dottie Lamm; one s. one d.; ed. Univs. of Wisconsin and California; Certified Public Accountant, Ernst & Ernst, Denver 1961-62; Lawyer, Colorado Anti-Discrimination Comm. 1962-63; Lawyer, Jones, Meiklejohn, Kilroy, Kehl & Lyons 1963-65; private practice 1965-74; mem. Colorado House of Reps. 1966-74; Assoc. Prof. of Law, Univ. of Denver 1969-74; Gov. of Colo. Jan. 1975-. *Leisure interests:* mountain climbing, reading. *Address:* State Capitol, Denver, Colo. (Office); Governor's Mansion, 400 East 8th Avenue, Denver, Colo. 80203, U.S.A. (Home). *Telephone:* (303) 892-2471 (Office).

LAMONICA, Roberto de; Brazilian artist; b. 27 Oct. 1933; ed. Escola de Belas Artes de São Paulo and Museu de Arte Moderna, Rio de Janeiro; Prof. School of Fine Arts, Lima 1961-62, Univ. de Chile and Univ. Católica de Chile 1962-63, School of Fine Arts, Viña del Mar 1963-64; Prof. of Printmaking, Museum of Modern Art, Rio de Janeiro 1964-; has exhibited in Graphic Art Exhbns. all over the world; illustrations and covers for several books; numerous prizes. *Address:* Rua Anibal de Mendança 180, A.P. 202, Rio de Janeiro ZC-37, RJ, Brazil.

LAMOUR, Philippe, L. EN D.; French businessman; b. 12 Feb. 1903, Landrecies; s. of Emmanuel Lamour and Léonie Lamon; m. Geneviève Walter 1931; [illegible] s. four d.; Pres. and Gen. Man. Compagnie Nat. d'Aménagement de la Région du Bas-Rhône-Languedoc 1955-; Pres. Comm. Nat. de L'Aménagement du Territoire, Comité écon. et social de la région Languedoc-Roussillon, Conseil Supérieur du Plan, Féd. Nat. des Vins de Qualité Supérieure, Assn. pour la Grande Traversée des Alpes; Vice-Pres. Féd. des Asscns. Viticoles de France; mem. Centre national du commerce extérieur, etc.; Mayor of Ceillac. *Publications:* 60 millions de Français, Prendre le temps de vivre, L'écologie, oui, les écologistes, non. *Leisure interest:* alpinism. *Address:* Mas Saint-Louis-la-Perdrix, 30127 Bellegarde du Gard (Gard), France. *Telephone:* (66) 01-11-27.

LAMOUREUX, Hon. Lucien, P.C., Q.C., M.A.; Canadian politician and diplomatist; b. 3 Aug. 1929, Ottawa, Ontario; s. of Prime Lamoureux and Graziella Madore; m. Claire Couture 1945; two s. two d.; ed. Ottawa Univ. and Osgoode Hall Law School, Toronto; elected to House of Commons 1962, Deputy Speaker 1963-65, Speaker 1966-74; Amb. to Belgium and Luxembourg July 1974-; Chancellor, Univ. of Windsor; Hon. Lieut.-Col. S. D. G. Highlanders. *Address:* Canadian Embassy, 6 rue Loxum, 1000 Brussels, Belgium.

LAMPE, William Frederick Meinhardt; Netherlands Antilles lawyer and politician; b. 5 Dec. 1896, Aruba; s. of Hendrik Meinhardt Lampe and Sophie Romalia Zeppenfeldt; m. Lena Vanterpool 1927; one d.; ed. High School, Netherlands Antilles; Registrar, Court of Justice, St. Eustatius 1917; Postmaster, St. Martin (Netherlands Antillian Part) 1919; Acting Lieut.-Gov. Saba 1922-27; Gov. Netherlands Windward Islands 1927-30; held various posts, including Attorney for the Netherlands Antilles 1930-45; Public Notary, Aruba 1946; Minister of Justice and Vice-Premier, Netherlands Antilles 1951-55; Minister for the Netherlands Antilles to the Netherlands 1955-66; Acting Gov. of the Netherlands Antilles 1967-69; [illegible] Windward Islands Progressive Party; Commdr. Order of Orange-Nassau 1966, Bearer Grand Cross (Peru and Argentina). *Leisure interests:* swimming, reading. *Address:* Mozart Straat 7, Oranjestad, Aruba, Netherlands Antilles. *Telephone:* 1547.

LAMPTEY, Jonathan Kwesi, B.SC., F.R.G.S., F.R.ECON.S.; Ghanaian politician; b. 10 May 1909, Sekondi; s. of Peter Lamptey and Ambah Essilfuah; m. Adelaide Afful 1937; two s. three d.; ed. Mfantsipim School, Wesley Coll., Achimota Coll., Univ. Coll., Exeter and London Univ.; Sr. Science Teacher, Mfantsipim School 1933-42; Ministerial Sec. Ministry of Finance 1951; mem. Legis. Assembly 1951-54; Headmaster, Bobikuma Primary School 1956-57; Asst. Headmaster, Fijai Secondary School 1957-69; imprisoned on political grounds 1961-66; mem. Ghana Constituent Assembly 1969; [illegible] Parl. for Sekondi; Minister of Defence 1969-70; Leader of the House 1970; Minister responsible for Parl. Affairs Jan. 1971-Jan. 1972. *Leisure interests:* gardening, dancing, high life, listening to classical music. *Address:* P.O. Box 4942, Accra, Ghana.

LANC, Erwin; Austrian politician; b. 17 May 1930, Vienna; m. Melitta Fröhlich 1957; one s. one d.; mem. Socialist Party 1948-; with Fed. Ministry of Social Admin. 1949-55; Nat. Sec. Austrian Youth Hostels Assn. 1955-59; [illegible] Diet and Municipal Council of Vienna 1960-; mem. Special Cttee. for Examination of Vienna Public Transport Co. 1961, Chair. 1964; Man. Information Bureau for Communal Financing 1965; mem. Parl. 1966-; Pres. Viennese Workers' Assn. for Sport and Physical Culture (ASKO) 1968; Minister of Transport 1973-77, of Interior 1977-; Vice-Pres. Vien[illegible] Socialist Party 1979-. *Publications:* Volksaktie ohne make-up 1960, Gemeinden und Kapitalmarkt 1967. *Address:* Leopold Ristergasse 5, 1050 Vienna, Austria.

LANCASTER, Burt(on) Stephen; American actor; b. 2 Nov. 1913; ed. New York Univ.; Acrobat 1932-39; shop asst. and salesman 1939-42; army service 1942-45; appeared in the play A Sound of Hunting (New York) 1945. *Films include:* The Killers 1946, Desert Fury 1947, Brute Force 1947, Sorry, Wrong Number 1948, All My Sons 1948, Criss Cross 1949, Rope of Sand 1949, The Flame and the Arrow 1950, Ten Tall Men 1951, The Crimson Pirate 1952,

Come Back Little Sheba 1953, From Here to Eternity 1953, His Majesty O'Keefe 1954, Apache 1954, Vera Cruz 1954, The Kentuckian (also dir.) 1955, The Rose Tattoo 1955, Trapeze 1956, The Rainmaker 1956, Gunfight at the O.K. Corral 1957, Sweet Smell of Success 1957, Separate Tables 1958, The Devil's Disciple 1958, Run Silent, Run Deep 1958, The Unforgiven 1959, Elmer Gantry (Acad. Award) 1960, Judgment at Nuremberg 1961, Birdman of Alcatraz 1962, A Child is Waiting 1962, The Leopard 1963, Seven Days in May 1964, The Train 1964, The Hallelujah Trail 1965, The Professional 1966, The Swimmer 1967, The Scalphunters 1968, The Gypsy Moths 1969, Airport 1969, Lawman 1970, Valdez is Coming 1971, Ulzana's Raid 1972, Scorpio 1973, Executive Action 1973, The Midnight Man 1974, Conversation Piece 1974, 1900 1975, Moses 1976, Go Tell the Spartans 1977. *Address:* Hecht-Hill-Lancaster Productions Inc., 830 Linda Flora, Beverly Hills, Calif. 90049, U.S.A.

LANCASTER, Sir Osbert, Kt., C.B.E.; British artist and writer; b. 4 Aug. 1908; ed. Charterhouse, Lincoln Coll., Oxford, and Slade School, London; Cartoonist, Daily Express 1939-; News Dept., Foreign Office 1940; British Embassy, Athens 1944-46; Sydney Jones Lecturer in Art, Liverpool Univ. 1947; Hon. Litt.D. (Birmingham); designed sets for Pineapple Poll, Sadler's Wells 1951, Bonne Bouche, Covent Garden 1952, Love in a Village, English Opera Group 1952, High Spirits, Hippodrome 1953, Rake's Progress, Edinburgh (for Glyndebourne) 1953, All's Well That Ends Well, Old Vic 1953, Don Pasquale, Sadler's Wells 1954, Coppelia, Covent Garden 1955, Napoli Festival Ballet 1954, Falstaff, Edinburgh (for Glyndebourne) 1955, Zuleika, Saville 1957, L'Italiana in Algeria, Glyndebourne 1957, Tiresias, English Opera Group 1958, Candide, Saville 1959, La Fille mal gardée, Covent Garden 1960, She Stoops to Conquer, Old Vic 1960, La Pietra del Paragone, Glyndebourne 1964, L'Heure Espagnole, Glyndebourne 1966, The Rising of the Moon, Glyndebourne 1970, The Sorcerer, D'Oyly-Carte Co. 1971. *Publications:* Progress at Pelvis Bay 1936, Our Sovereigns 1936, Pillar to Post 1938, Homes, Sweet Homes 1939, Classical Landscape with Figures 1947, The Saracen's Head 1948, Drayneflete Revealed 1949, Façades and Faces 1950, Private Views 1956, The Year of the Comet 1957, Etudes 1958, Here, of All Places 1959, Signs of the Times 1961, All Done from Memory (autobiography) 1964, Graffiti 1964, A Few Quick Tricks 1965, With an Eye to the Future 1967, Temporary Diversions 1968, Sailing to Byzantium 1969, Recorded Live (new pocket cartoons) 1970, Meaningful Confrontations 1971, Theatre in the Flat 1972, The Littlehampton Bequest 1973, Liquid Assets 1975, The Social Contact (pocket cartoons) 1977, The Pleasure Garden (with Anne Scott-James) 1977, Scene Changes 1978. *Address:* 78 Cheyne Court, Royal Hospital Road, London, S.W.3., England.

LANCE, (Thomas) Bertram; American banker and politician; b. 3 June 1931, Gainesville, Ga.; s. of Dr. and Mrs. T. J. Lance; m. LaBelle David 1950; four s.; ed. Univ. of Georgia, Louisiana State Univ., Rutgers Univ., New Brunswick, N.J., Emory Univ., Atlanta, Ga.; worked as teller, Calhoun First Nat. Bank, Ga. 1951, Pres. and Chief Exec. Officer 1963, Chair. 1974; Commr. Ga. Dept. of Transportation 1971-73; Pres. Nat. Bank of Ga., Atlanta Jan. 1975, also Chief Exec. Officer; Dir. of the Office of Man. and Budget, Exec. Office of Pres. of U.S.A. Jan.-Sept. 1977; Investment Consultant, Bank of Credit and Commerce Int.; Head, Chair. of Private Enterprise, Ga. State Univ.; Dir. Ga. Conservancy; mem. Exec. Cttee. for Cen. Atlanta Progress, Ga. Advisory Council of Coll. of Industrial Man., Exec. Cttee. of Ga. Foundation for Ind. Colls.; Trustee Ga. State Univ., Reinhardt Coll., Waleska, Ga.; numerous civic, religious and charitable activities. *Address:* 10 Habersham Way, N.W., Atlanta, Ga. 30305, U.S.A. *Telephone:* (404) 629-1226.

LANCEFIELD, Rebecca Craighill, A.M., PH.D.; American microbiologist and immunologist; b. 5 Jan. 1895, Fort Wadsworth, New York; d. of Col. William E. Craighill and Mary W. Byram Craighill; m. Donald E. Lancefield 1918; one d.; ed. Wellesley Coll. and Columbia Univ.; Tech. Asst., Rockefeller Inst. for Medical Research (now The Rockefeller Univ., New York) 1918-19, 1922-25, Asst. 1925-29, Assoc. 1929-42, Assoc. mem. 1942-58, mem. and Prof. 1958-65, Prof. Emer. 1965-; Pres. Soc. of American Bacteriologists 1943-44, American Assen. of Immunologists 1961-62; mem. Nat. Acad. of Sciences; Hon. Fellow Royal Coll. Pathology 1976; D.Sc.(h.c.) (Rockefeller) 1973, (Wellesley Coll.) 1976; T. Duckett Jones Memorial Award 1960, American Heart Assen.'s Achievement Award 1964, Medal of New York Acad. of Medicine 1973. *Address:* The Rockefeller University, New York, N.Y. 10021, U.S.A. *Telephone:* 212-360-1347.

LAND, Edwin Herbert, LL.D., L.H.D.; American scientist; b. 7 May 1909, Bridgeport, Conn.; s. of Harry M. and Matha G. Land; m. Helen Maislen 1929; two d.; ed. Norwich Acad. and Harvard Univ.; Founder Polaroid Corpn., Cambridge, Mass. 1937, later Pres., Chair., and Dir. of Research; developed first modern polarizers for light, sequence of subsequent polarizers, theories and practices for application of polarized light; during World War II developed optical systems for mil. use; created cameras, films that give instantaneous dry photographs in black and white and colour; mem. President's Science Advisory Cttee., President's Foreign Intelligence Advisory Board, Nat. Comm. on Technology, Automation and Econ. Progress, Nat. Acad. of Arts, American Acad. of Arts and Sciences (past Pres.) etc.; Fellow Photographic Soc. of America; Visiting Prof. M.I.T. 1956-; William James Lecturer on Psychology, Harvard 1966-67; numerous hon. degrees; numerous medals incl. Presidential Medal of Freedom 1963, Nat. Medal of Science 1967. *Address:* 730 Main Street, Cambridge, Mass. 02139; 163 Brattle Street, Cambridge, Mass. 02138, U.S.A. (Home).

LANDAU, Moshe, LL.B.; Israeli judge; b. 29 April 1912, Danzig (now Gdańsk, Poland); s. of Dr. Isaac Landau and Betty (née Eisenstädt); m. Leah Doukhan 1937; three d.; ed. London Univ.; went to Israel 1933; called to Palestine Bar 1937; Magistrate of Haifa 1940, District Court Judge, Haifa 1948; Justice, Supreme Court, Jerusalem 1953-, Deputy Pres. 1976-. *Leisure interest:* piano. *Address:* The Supreme Court, Jerusalem; 10 Alharizi Street, Jerusalem, Israel. *Telephone:* 32757.

LANDÁZURI RICKETTS, H.E. Cardinal Juan, D.C.L.; Peruvian ecclesiastic; b. 19 Dec. 1913, Arequipa; ed. Univs. of Arequipa and Antonianum, Rome; Franciscan Friar; Teacher of Canon Law; Ordained Priest 1939; Titular Archbishop of Roina 1952; cr. Cardinal 1962; Archbishop of Lima; Kt. Commdr. of Order of Malta and many honours. *Address:* Arzobispado, Plaza de Armas, Apartado Postal 1512, Lima, Peru.

LANDOWSKI, Marcel François Paul; French composer; b. 18 Feb. 1915; ed. Lycée Janson-de-Sailly and Conservatoire nationale de musique de Paris; Dir. Conservatoire, Boulogne-sur-Seine 1960-65; Dir. of Music, Comédie Française, Paris 1962-66; Insp.-Gen. of Musical Studies 1964; Dir. of Music 1966-70; Ministry of Cultural Affairs 1970-; Dir. of Music, lyrical art and dance 1974; Insp.-Gén. de l'instruction publique 1974-; Chevalier Légion d'honneur, Croix de guerre. *Compositions include:* Rhythmes du monde (Oratorio), Jean de la peur (Symphony), Le rire de Nils Halérius, Le fou, Le ventriloque, Les adieux (Operas); two cantatas, chamber music, film music, music for Cyrano de Bergerac at Comédie Française. *Address:* 10 rue Max-Blondat, 92100 Boulogne-sur-Seine, France.

LANE, Ronald Anthony Stuart, C.M.G., M.C., F.I.B.; British banker; b. 8 Dec. 1917, Bushey, Herts.; s. of Wilmot Ernest Lane and Florence Blakey; m. Anne Brenda Walsh 1948; one s. one d.; ed. Lancing Coll.; served with Chartered Bank of India, Australia and China in the Far East 1939-60; 7th Light Cavalry, Indian Army 1940-45; Chief Gen. Man. the Chartered Bank 1972; mem. Export Guarantees Advisory Council 1972 (Deputy Chair. 1977-78); mem. Council, Inst. of Bankers 1975; Man. Dir. Standard Chartered Bank Ltd. 1975-77, Vice-Chair. 1977-; Temp. Chair. The Hodge Group, Julian S. Hodge and Co., Hodge Finance, also Hodge Life Assurance Co. *Leisure interests:* sailing, gardening. *Address:* West Hold, by the Church, West Mersea, Essex, England. *Telephone:* West Mersea 2563.

LANG, André; French dramatist and journalist; b. 12 Jan. 1893, Paris; m. 1st Lise Clemenceau 1920 (died 1921), one s. (died 1977); m. 2nd Sari de Megyery 1939. Hon. Pres. Assen. Critique Cinéma et Television; Officier Légion d'honneur, Croix de guerre. *Publications include:* Plays: Fantaisie amoureuse 1925, Les trois Henry 1930 (produced at Comédie Française), La paix est pour demain 1937, L'impure 1948; novels: Le responsable 1921, Fausta 1922, Mes deux femmes 1931; essays: Voyage en zig-zags dans la république des lettres 1922, Déplacements et villégiatures littéraires 1923, Tiers de siècle 1935, L'homme libre, ce prisonnier (crowned by French Acad.) 1946, Le tableau blanc (cinema) 1948, Le voyage à Turin (play) 1956, Le septième ciel (novel) 1958, Une vie d'orages: Germaine de Staël (biography) 1958, Bagage à la consigne (autobiography) 1960, Le sac (play) 1962, La dame de Coppet (play) 1964, Pierre Brisson (biography) 1967, La société et l'écrivain (France, 1900-1930) (in preparation). *Leisure interest:* country walks. *Address:* 15 rue Lakanal, 75015 Paris, France. *Telephone:* 828-45-46.

LANG, Anton, DR.NAT.SC.; American (naturalized 1956) plant physiologist; b. 18 Jan. 1913, St. Petersburg, Russia; s. of Dr. George Lang and Vera Davidov; m. Lydia Kamendrovsky 1946; two s. one d.; ed. High School, Berlin and Labes, Pomerania, and Univ. of Berlin; Scientific Asst., Kaiser Wilhelm (later Max Planck) Inst. of Biology, Berlin, later Tübingen, Germany 1939-49; Research Assoc., Genetics Dept., McGill Univ., Montreal 1949; Visiting Prof. Agron-

omy and Genetics Depts., Texas Agric. and Mech. Coll. 1950; Research Fellow and Senior Research Fellow, Div. of Biology, Calif. Inst. of Tech. Pasadena 1950-52; Asst. and Assoc. Prof., Dept. of Botany, Univ. of Calif., Los Angeles 1952-59; Prof. of Biology in charge of Earhart-Campbell Plant Research Labs., Calif. Inst. of Tech. 1959-65; Dir. MSU-DOE Plant Research Lab., Prof. Botany and Plant Pathology, Michigan State Univ., E. Lansing 1965-78, Prof. 1978-; Lady Davis Foundation Fellowship 1949; Lalor Foundation Fellowship 1950-52; Sr. Research Fellowship, Nat. Science Foundation 1948-49; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Akademie Leopoldina; Chair. Nat. Research Council Comm. on the Effects of Herbicides in Viet-Nam 1971-74; [illegible] President's Cttee. on National Medal of Science 1976-78; Distinguished Faculty Award, Mich. State Univ. 1976, Stephen Hales Price and Charles Reid Barnes Life Membership Awards, American Soc. Plant Physiologists 1976. *Publications:* Over 100 publs. in plant physiology (physiology of flowering, hormone physiology). *Leisure interests:* gardening, reading, music. *Address:* MSU/DOE Plant Research Laboratory, Michigan State University, East Lansing, Mich. 48824 (Office); 1538 Cahill Drive, East Lansing, Mich. 48823, U.S.A. (Home); *Telephone:* 517-351-5431 (Home); 517-353-2270 (Office).

LANG, Hon. Otto Emil, P.C., Q.C., B.A.; Canadian lawyer and politician; b. 14 May 1932, Handel, Sask.; s. of Otto T. Lang and Maria Theresa Wurm; m. Adrian Ann Merchant 1963; three s. four d.; ed. Univ. of Saskatchewan and Oxford Univ.; admitted to Saskatchewan Bar 1956; Asst. Prof., Univ. of Saskatchewan, Faculty of Law 1956, Assoc. Prof. 1957, Prof. 1961, Dean of Law School 1961-68; M.P. for Saskatoon-Humboldt 1968-79; Minister without Portfolio 1968, with responsibility for Energy and Water Resources 1969, with responsibility for Canadian Wheat Board Aug.-Nov. 1969-70; Minister of Manpower & Immigration 1970-72, of Justice 1972-75, of Transport responsible for Canadian Wheat Board 1975-79, of Justice and Attorney-Gen. Aug.-Nov. 1978; Pres. Assn. of Canadian Law Teachers 1962-63; Vice-Pres. Saskatchewan Liberal Assn. 1956-63; Fed. Campaign Chair. Liberal Party 1963-64; Past Pres. Saskatoon Social Planning Council; Rhodes Scholar 1955; Knight of Malta 1962; Q.C. for Ontario 1972; Q.C. for Saskatchewan 1972. *Publication:* Contemporary Problems of Public Law in Canada (Editor) 1968. *Leisure interests:* curling, bridge, golf. *Address:* 711 University Drive, Saskatoon, Saskatchewan, Canada.

LÅNGBACKA, Ralf Runar, M.A.; Finnish theatre director; b. 20 Nov. 1932, Närpes; s. of Runar Emanuel Långbacka and Hulda Emilia Långbacka and Hulda Emilia Långbacka (née Backlund); m. Runa Birgitta Danielsson 1961; two s. one d.; ed. Åbo Akademi, Universität München, and Freie Univ., Berlin; Ed. Finnish Radio literary programmes 1955-56; Asst. and Dir. Lilla Teatern, Helsinki 1958-60; Man. and Artistic Dir. Swedish Theatre, Turku 1960-63; Dir. Finnish Nat. Theatre 1963-65; Artistic Dir. Swedish Theatre, Helsinki 1965-67; free-lance Dir. in Finnish National Opera, Helsinki, Municipal Theatre, Gothenburg, Sweden, Royal Dramatic Theatre, Stockholm, Sweden 1967-71; mem. Finnish State Comm. of Dramatic Art 1967-70; Artistic Dir. Municipal Theatre, Turku 1971-77; Head Finnish Dirs. Assn. 1978-; The Critics Spurs 1963, Pro Finlandia 1973. *Publications:* Theatterikirja (The Theatre Book) (with Kalle Holmberg) 1977 and articles. *Leisure interests:* music, politics, sports. *Address:* Vyökatu 2 A1, Helsinki, Finland. *Telephone:* 90-175720.

LANGDON, Jervis, Jr.; American railroad executive; b. 28 Jan. 1905, Elmira, New York; s. of Jervis and Eleanor (Sayles) Langdon; m. Irene Fortner 1949; ed. Cornell Univ. and Univ. de Dijon, France; Asst. Gen. Attorney, Chesapeake and Ohio Railway 1936-38, Gen. Attorney 1938-41, Asst. Vice-Pres. (Traffic) 1941-42; U.S. Army Air Force 1942-45; Special Counsel, Assn. of Southeastern Railroads 1947-53, Chair. 1953-56; Gen. Counsel, Baltimore and Ohio Railroad 1956-61, Pres. 1961-64; Chair. Chicago, Rock Island and Pacific Railroad 1964-65, Chair. and Pres. 1965-70; Trustee, Penn. Cen. Transport Co. 1970-74, Pres., Chief Exec. Officer 1974; Legion of Merit. *Address:* 6 Penn Center Plaza, Philadelphia, Pa. 19104; Quarry Farm, Elmira, N.Y. 14902, U.S.A. (Home).

LANGDON, Michael, C.B.E.; British bass singer; b. 12 Nov. 1920, Wolverhampton; s. of Mr. and Mrs. Henry Langdon; m. Vera Duffield 1947; two d.; ed. Bushbury Hill School, Wolverhampton; Prin. bass, Royal Opera House, Covent Garden 1951-; sang in Gloriana (Britten) at Royal Command Performance 1953; Promenade Concerts, Royal Albert Hall 1953-; int. engagements since 1961; T.V., radio, etc.; Dir. Nat. Opera Studio Oct. 1978-; leading bass roles in Fidelio, Der Rosenkavalier, Il Seraglio, Don Carlos, Wozzeck, Don Giovanni, Faust, Das Rheingold, Die Walküre, Götterdämmerung, Magic Flute, Falstaff, Tristan und Isolde, Tannhäuser, Der Fliegende Holländer, Billy Budd, Boris Godunov, Bartered Bride, Aida, etc.; particularly well known as Baron Ochs in Der Rosenkavalier; Hon. Diploma (Guildhall School Music and Drama) 1973. *Leisure interests:* walking, swimming and association football (Wolves F.C.), plus reading science fiction and autobiographies. *Address:* 34 Warnham Court, Grand Avenue, Hove, Sussex, England. *Telephone:* Brighton 733120.

LANGE, Per; Danish writer; b. 30 Aug. 1901, Hørsholm, Denmark; s. of Sven Lange and Mimi Blad; m. Hanne Thiele 1942; one s. two d. Free-lance trans. and literary critic; former book critic of Berlingske Tidende; on staff of Sind og Samfund 1932-37; Literary adviser Gyldendals Forlag, Copenhagen 1946-. *Publications:* Poems: Kaos og Stjœrnen 1926, Forvandlinger 1929, Orfeus 1932, Relieffer 1943; Spejlinger (essays) 1953, Ved Musikkens Tœrskel (essays) 1957, Samtale med et Æsel (essays) 1961, Om Krig og Krigsmœnd (essays) 1966, Dyrenes Maskerade (essays) 1969; also numerous trans. of English, French and American authors. *Leisure interest:* music. *Address:* Dr. Olgas Vej. 5, DK-2000 Copenhagen F, Denmark. *Telephone:* (01) 190056.

LANGELAND, Arne Lodvar; Norwegian diplomatist and international official; b. 24 Nov. 1928, Nötterö; m. Harriet Karen Lulla 1954; two s. three d.; ed. Univ. of Oslo; joined Foreign Service 1953; served in Del. to OEEC, NATO in Paris 1954-56, Embassy in Turkey 1957-59; Ministry of Foreign Affairs 1959-65; served in Del. to Geneva 1965-70; private business 1970-75; Deputy Sec.-Gen. EFTA 1976-. *Address:* European Free Trade Association (EFTA), 9-11 rue de Varembé, 1211 Geneva 20, Switzerland.

LANGEMEIJER, Gerard Eduard, DR. JUR.; Netherlands lawyer; b. 3 Nov. 1903, Dieren; s. of Mr. and Mrs. E. G. Langemeijer; m. 1958; ed. Univ. of Leiden; called to the Bar 1928; Dist. Attorney, Rotterdam 1929-34; The Hague 1934-39; Judge, Amsterdam 1939-46; Prof. of Law, Leiden Univ. 1946-58; Asst. Attorney-Gen. Supreme Court 1947-57, Attorney-Gen. 1957-73; Pres. Royal Netherlands Acad. of Sciences and Letters 1963-68; Co-editor of Nederlands Juristenblad (Law Review). *Address:* Bronovolaan 20, The Hague, Netherlands.

LANGENHOVE, Fernand Van; Belgian diplomatist; b. 30 June 1889, Mouscron; s. of Emil van Langenhove and Sarah van de Mergel; m. Nancy Willems 1920; two d.; ed. Univ. of Brussels; Sec. Inst. of Sociology, Brussels 1910; Dir. Ministry of Econ. Affairs, Belgium 1917; Prof., Univ. of Brussels 1920; Dir. Ministry of Foreign Affairs 1922; Chief of Cabinet, Ministry of Foreign Affairs 1927; Sec.-Gen. Ministry of Foreign Affairs 1929; Amb. 1936; Perm. Belgian Rep. to UN 1946-57; Pres. Inst. Royal des Relations Int. 1958; Pres. Oeuvre Nat. Lutte contre le Cancer 1958; Pres. Comm. de la Biographie Nat. 1975; mem. Acad. Royale de Belgique 1961, Acad. Royale des Sciences d'Outremer; Grand Cross of Order of Crown (Belgium), of Order of Netherlands Lion, of Order of South[illegible] Cross (Brazil), of Order of Merit (Portugal), of Order of Crown (Italy), Grand Officier Légion d'honneur, etc. *Publications:* La nationalité albanaise 1913, Comment nait un cycle de légendes 1916, Le dossier diplomatique de la question belge 1917, L'action du Gouvernement belge en matière économique pendant la guerre 1921, Le problème de la protection des populations aborigènes aux Nations Unies 1956, La crise du système de sécurité collective des Nations Unies 1958, Consciences tribales et nationales en Afrique Noire 1960, Le rôle proéminent du Secrétaire Général dans l'opération des Nations Unies au Congo 1964, La Belgique en quête de sécurité 1969, La sécurité de la Belgique 1971, La Belgique et ses garants, L'été 1940 1972. *Address:* 67 Avenue de la Floride, 1180 Brussels, Belgium. *Telephone:* 374-12-87.

LANGLO, Kaare, D.PHIL.; Norwegian meteorologist; b. 7 Oct. 1913, Bergen; s. of Einar Olsen and Borghild Langlo; m. Else Lökke 1943; one s. one d.; Research Asst., Observatory, Tromsö 1940-43, Meteorologist 1943-45, Chief of Div. 1945-51; Chief Admin. WMO 1952, Chief of Technical Div. 1953-67, Dir. 1968-70, Deputy Sec.-Gen. 1971-75; WMO Rep. on SCAR and Int. Comm. on Polar Meteorology; Counsellor Meteorological Inst., Oslo 1976, Dir. 1978-; Kt., Order of St. Olaf (1st Class). *Publications:* Lokale Änderungen der Struktur der Ionosphäre auf hohen Breitegraden 1942, On the amount of Atmospheric Ozone and its relation to Meteorological Conditions 1952, The World Weather Watch 1966, Three thousand million people—only one biosphere 1971, and numerous articles. *Leisure interests:* skiing, fishing. *Address:* Det Norske Meteorologiske Institutt, Postboks 320, Blindern, Oslo 3, Norway. *Telephone:* 605090.

LANGMAN, Hargert; Netherlands politician; b. 1931; m.; four c.; ed. Univ. of Amsterdam; fmr. Man. Dir. Dutch Foundation for the Shipbuilding Industry; Prof. in Industrial Economy, Techno-

logical Univ., Delft and Econ. Inst. Rotterdam; Minister of Econ. Affairs 1971-73; Nat. Liberal. *Address:* c/o Ministry of Economic Affairs, The Hague, Netherlands.

LANGSAM, Walter Consuelo, B.S., M.A., PH.D., LITT.D., SC.D. in ED., L.H.D., SC.D., LL.D.; American historian and university administrator; b. 2 Jan. 1906, Vienna, Austria; s. of Emery Bernhardt and Angela Virginia Bianca Langsam; m. Julia Elizabeth Stubblefield 1931; two s.; ed. City Coll. of New York and Columbia Univ.; tutor in History, City Coll. of New York 1926; Instructor and Asst. Prof. of History, Columbia University 1927-38; Prof. of History, Union Coll. 1938-45; Visiting Prof., British Columbia, Duke, Ohio State, Columbia, New York and Colorado Univs; radio news commentator Station WGY Schenectady 1941-43; Office of Strategic Services 1944-45; Pres. Wagner Lutheran Coll., New York 1945-52; Pres. of Gettysburg Coll., Pa. 1952-55, of Univ. of Cincinnati 1955-71, Pres. Emer. and Distinguished Service Prof. 1971-; mem. Board of Consultants, Nat. War Coll., Washington, D.C. 1972-76; Trustee, Endicott Coll., Cincinnati Ballet Co., Cincinnati Inst. of Fine Arts, Univ. of Cincinnati Foundation; Vice-Pres. Board of Theological Educ., Lutheran Church in America 1962-72; Vice-Pres. Cincinnati Hist. Soc.; mem. Board of Dirs. Diamond Int., Southern Ohio Bank; mem.-at-large Nat. Council of Boy Scouts of America; Fellow, Int. Consular Acad.; Townsend Harris Medallist (City Coll. of New York), 125th Anniv. Alumni Medal City Coll. of New York 1972, George Washington Honor Medal, Freedoms Foundation at Valley Forge 1958, 1973, Dept. of the Army Outstanding Civilian Service Award 1968, Laurel Leaf Cluster 1971, 1972, Grand Cross, Order of Merit, Fed. Repub. of Germany 1970; Hon. Consul of Finland 1967-76. *Publications:* The Napoleonic Wars and German Nationalism in Austria 1930, The World since 1914 1933, Major European and Asiatic Developments since 1935 1939, In Quest of Empire, The Problem of Colonies 1939, Documents and Readings in the history of Europe since 1918 1939, Since 1939—A Narrative of War 1941, Francis the Good, the Education of an Emperor (1768-1792) 1949, The World since 1919 1954, Franz der Gute: Die Jugend eines Kaisers 1954, Historic Documents of World War II 1958, World History since 1870 1963, Where Freedom Exists 1967, An Honor Conferred, A Title Awarded: A History of the Commercial Club of Cincinnati 1880-1972 1973, The World and Warren's Cartoons 1977, Cincinnati in Color (with Julianne Warren) 1978; contributed to The American Historical Association's Guide to Historical Literature 1961, and to Virtute Fideque: Festschrift für Otto von Habsburg zum fünfzigsten Geburtstag (ed. Emil Franzel) 1965. *Address:* University of Cincinnati, Cincinnati, Ohio 45221, U.S.A. *Telephone:* 513-475-2511.

LANGUETIN, Pierre; Swiss diplomatist; b. 1923, Lausanne; ed. Univ. de Lausanne and London School of Economics; diplomatic career 1949-; in Div. of Exchange, OEEC, Paris; in Div. of Commerce, Fed. Dept. of Public Economy 1955-57, Head of Secr. 1957-61, Chief of Section IA 1961-63; Chief of Subdiv. 1963; has been concerned with problems of European econ. co-operation; Asst. Head of Bureau of Integration, Fed. Political Dept. and Dept. of Public Economy 1961; Swiss Del. to Trade Cttee., OECD, Paris 1961-, Vice-Pres. 1965-; mem. Swiss Del. to UNCTAD Geneva 1964; Swiss Rep. at various int. orgs. 1965-66; Del. of Fed. Council for Trade Negotiations, title of Minister Plenipotentiary 1966-; Head of Swiss Del. to EFTA Geneva 1967-77, title of Amb. 1968-; Head of Swiss Del. to Second UNCTAD New Delhi 1968; Head of Swiss Del., Trade and Devt. Board 1967-70; Deputy Head of Swiss Negotiating Team with EEC 1970-. *Address:* c/o Ministry of Trade, Geneva, Switzerland.

LANOCITA, Arturo; Italian journalist; b. 4 June 1904; ed. Univ. degli Studi, Pavia; Ed. newspaper L'Ambrosiano 1923-30, La Stampa 1930; Editor Corriere della Sera 1930-45, Vice-Editor-in-Chief 1945-62, Cinema Critic 1946, Editor-in-Chief 1962-68; mem. Int. Jury Venice Cinema Festival 1948, 1950, 1952, 1962, Pres. 1963; mem. Int. Jury San Sebastian Cinema Festival 1959; Commendatore della Repubblica Italiana; Golden Pen of Cinema Critics 1951, Borselli Prize 1966. *Publications:* Attrici e attori in pigiama 1926, Scrittori del tempo nostro 1928, Quaranta milioni 1932, Quella maledettissima metà 1939, Salvateli dalla ghigliottina 1943, Il Croce a sinistra 1945, Il ragazzo che doveva mentire 1946, Cinema, fabbrica di sogni 1950, Gratis 1959, Sofia Loren 1966. *Address:* Via Alessandro Volta 7, Milan, Italy.

LANOUX, Armand; French writer; b. 24 Oct. 1913, Paris; s. of Aimé Lanoux and Jeanne Jacoby; m. 2nd Catherine Tolstoi 1964; two s. (of 1st m.).; fmr. teacher, painter; infantry officer 1939-40; professional writer 1946-; Sec.-Gen., Université Radiophonique et Télévisuelle Internationale; Pres. Société des Auteurs Dramatiques; mem. Académie Goncourt 1969-; Prix Interallié 1956, Prix Goncourt 1963; Chevalier de la Légion d'honneur, Croix de guerre 1939-40, Commdr. Ordre des Arts de des Lettres. *Publications:* biographies: Bonjour, Monsieur Zola 1954; Maupassant, le bel ami 1967; novels: Le Commandant Watrin 1956, Le rendez-vous de Bruges 1958, Quand la mer se retire 1963, Margot, l'enragée 1964, Le violon dans le feu 1967; poems: Les images d'Epinal 1969, La polka des menus 1971, Le coq rouge 1972; 1900, la bourgeoisie absolue 1973, Le berger des abeilles 1974, Paris 1925 1975, Adieu la vie, adieu l'amour 1977. *Leisure interests:* swimming and sailing, collecting post-cards. *Address:* 7 route de Malnoue, 77 Champs-sur-Marne, France. *Telephone:* 005-05-38.

LANSDOWNE, 8th Marquess of; **George John Charles Mercer Nairne Petty-Fitzmaurice,** P.C.; British politician; b. 27 Nov. 1912; s. of the late Major Lord Charles Mercer Nairne and of Lady Violet Elliot; m. 1st Barbara Chase 1938 (died 1965), two s. two d. (one dec.); m. 2nd Mrs. Polly Carnegie (d. of Viscount Eccles, *q.v.*) 1969; ed. Eton Coll. and Christ Church, Oxford Univ.; Army service 1939-45, Major 1944, served with Free French Forces; Private Sec. to Rt. Hon. A. Duff Cooper, Amb. to France 1944-45; Lord-in-Waiting to H.M. The Queen 1957-58; Joint Parl. Under-Sec. of State, Foreign Office 1958-62; Chair. Intergovernmental Cttee. Malaysia Aug.-Dec. 1962; Minister of State for Colonial Affairs 1962-64; Pres. Franco-British Soc.; Prime Warden Fishmongers' Company 1967-68; Conservative. *Address:* Meikleour House, Perthshire, Scotland.

LANTIER, Raymond François; French archaeologist; b. 11 July 1886, Lisieux; s. of Dr. Georges Lantier and Claire Benoist-Tranchepain; m. Yvonne Chevalier 1918; ed. Ecole pratique des Hautes Etudes, Ecole du Louvre, and Ecole des Hautes Etudes Hispaniques, Madrid, Univ. of Caen; with Musées Nationaux 1911-14; mil. service 1914-18; Insp. of Antiquities and Arts Tunisia 1921-26; Asst. Keeper Musée des Antiquités Nationales 1926-32, Keeper 1933-56, Hon. Keeper 1956-; Prof. of Nat. and Prehistoric Antiquities, Ecole du Louvre 1927-51; Co-Dir. Revue archéologique 1933-65; Chief Ed. Préhistoire 1932-67; mem. Acad. de la Historia, Madrid 1933, Acad. des Inscriptions et Belles-Lettres, Inst. de France 1946, Akad. der Wissenschaften und Literatur, Mainz 1947, New York Acad. of Sciences 1958; Hon. Fellow Soc. of Antiquaries, London; Officier Légion d'honneur 1952. *Publications:* El santuario ibérico de Castellar de Santisteban (Jaen) 1917, Inventaire des monuments sculptés préchrétiens de la Péninsule ibérique, 1ère partie: Lusitanie 1918, Bronzes votifs ibériques 1935, Recueil des bas-reliefs, sculptures et bustes de la Gaule romaine (Vols. XII, XIII, XIV, XV, 1947, 1949, 1954, 1965), Les origines de l'art français, Des temps préhistoriques à l'époque carolingienne 1947, Guide illustré du Musée des Antiquités Nationales au château de Saint-Germain-en-Laye 1948, Les hommes de la Pierre Ancienne (with H. Breuil) 1951, 1959, La vie préhistorique 1952, 1957, 1965, 1970, L'art préhistorique 1961. *Leisure interest:* translating Spanish literature into French. *Address:* 8 rue Armagis, 78100 Saint-Germain-en-Laye, Yvelines, France. *Telephone:* 963-16-74.

LANTZKE, Ulf, DR.IUR.; German international official; b. 3 June 1927, Reierort; m. Dr. Ursula Lantzke; ed. Univ. of Münster; Legal service for North Rhine Westphalia 1952-57; Energy Dept., Fed. Ministry of Econ. Affairs 1957-74, Head of Energy Dept. 1968-74; Special Counsellor for Energy Questions to the Sec. Gen. of OECD May 1974-, Exec. Dir. Int. Energy Agency of OECD Nov. 1974-. *Address:* International Energy Agency, OECD, 2 rue André-Pascal, 75775 Paris, France. *Address: Telephone:* 524-9440.

LANUSSE, Gen. Alejandro Agustin; Argentine army officer; b. 28 Aug. 1918, Buenos Aires; s. of Gustavo Lanusse and Albertina Gelly; m. Ileana Bell; five s. four d.; ed. Colegio Militar de la Nación and Escuela Superior de Guerra; Commdr. San Martin Regt.; Mil., Naval and Air Attaché, Mexico 1958-60; Chief of Staff, 3rd Cavalry Div. 1960; Deputy Dir. Escuela Superior de Guerra 1960-62; Commdr. 1st Armoured Cavalry Div. 1962-64; Army Command 1965-66; Commdr. 3rd Army, Córdoba 1967; C.-in-C. of Army 1968; C.-in-C. of the Armed Forces 1971-73; Pres. of Argentina 1971-73; detained May 1977, released June 1977.

LAOS, fmr. King of (see Savang Vatthana).

LA PAZ, Lincoln, A.B., A.M., PH.D.; American mathematician; b. 12 Feb. 1897, Wichita, Kansas; s. of Charles Melchior and Emma Josephine (Strode) La Paz; m. Leota Rae Butler 1922; two d.; ed. Harvard and Chicago Univs.; Instructor in Math., Harvard Univ. 1921-22, Dartmouth Coll. 1922-25; Nat. Research Fellow 1928-29; Instructor, Chicago Univ. 1929-30; Asst. Prof. 1930-35, Assoc. Prof. 1935-42, Prof. of Math., Ohio State Univ. 1942-45; Research Mathematician, Office of Scientific Research and Devt. 1942-44; Tech. Dir. Operations Analysis Section, H.Q. 2nd Air Force 1944-45; Head, Dept. of Math. and Dir. Inst. of Meteoritics, Univ. of New Mexico 1945-53; Dir. Div. of Astronomy 1953-62, Inst. of Meteoritics

1953-66; Editor, Univ. of New Mexico Publications in Meteoritics 1944-69; third Pres. and Fellow, Meteoritical Soc.; mem. of Int. Astronomical Union, British and Canadian Astronomical Socs., Mathematical Assn., etc. *Publications:* Physics and Medicine of the Upper Atmosphere 1952, Advances in Geophysics, Vol. IV (co-author) 1958, Space Nomads (co-author) 1961, Catalog of the Collections of the Inst. of Meteoritics 1965, Topics in Meteoritics 1969. *Leisure interest:* field search for meteorites. *Address:* 3400 Wilway Drive, N.E. Albuquerque, New Mexico 87106, U.S.A.

LAPESA MELGAR, Rafael; Spanish author and university professor; b. 1908, Valencia; s. of Prof. Rafael Lapesa and Ascensión Melgar de Lapesa; m. Pilar Lago Couceiro 1932; ed. Instituto Cardenal Cisneros and Madrid Univ.; engaged in research work at Centro de Estudios Históricos, Madrid, under guidance of Ramón Menéndez Pidal 1927-39; Prof. at Madrid Univ. 1947-; has lectured as guest Prof. in Univs. of Princeton, Yale, Harvard, California, Pennsylvania, Wisconsin, La Plata, Puerto Rico, Colegio de México and Buenos Aires; mem. Real Academia Española, Hispanic Soc. of America; corresp. mem. Acad. Argentina de Letras, Acad. Nac. de Letras de Uruguay, Acad. de Artes y Letras de Puerto Rico, etc.; hon. mem. Modern Language Assn. of America and American Assn. of Teachers of Spanish and Portuguese; Dr. h.c. (Toulouse). *Publications:* Historia de la Lengua Española 1942, 1951, 1955, etc., Asturiano y Provenzal en el Fuero de Avilés 1948, La trayectoria poética de Garcilaso 1948, 1968, La obra literaria del Marqués de Santillana 1957, De la Edad Media a nuestros días 1967, Poetas y prosistas de ayer y de hoy 1977. *Address:* Residencia de Profesores 3, Calle de Isaac Peral, Madrid 15, Spain.

LAPHAM, Lewis Abbot; American banker (retd.); b. 7 March 1909, Brooklyn, New York; s. of Roger D. and Helen Abbot Lapham; m. Jane A. Foster 1932; two s.; ed. Hotchkiss School and Yale Univ.; Pres. American-Hawaiian Steamship Co. 1947-53; Exec. Vice-Pres. Grace Line Inc. 1953-55; Chair. Exec. Cttee. Bankers Trust Co. 1959-66; Vice-Chair. Bankers Trust New York Corpn. 1966-74; Pres. 1968-74; Pres. New York State Bankers Assn. 1970-71; Dir. Chubb Corpn., Fed. Insurance Co., Vigilant Insurance Co., Mobil Oil Corpn., Tri-Continental Corpn., H. J. Heinz Co., North American Philips Corpn., Crane Co.; mem. Nat. Assocs. Board Smithsonian Inst.; Chair. Governing Cttee. U.S. Philips Trust. *Leisure interests:* golf, reading. *Address:* 280 Park Avenue, New York, N.Y. 10017 (Office); John Street, Greenwich, Conn. 06830, U.S.A. (Home). *Telephone:* 212-692-4790 (Office); 203-869-5522 (Home).

LAPIE, Major Pierre Olivier; French lawyer and administrator; b. 2 April 1901, Rennes; s. of the late Paul Lapie; m. Yolande Friedmann; one d.; Barrister-at-Law; Deputy for Meurthe-and-Moselle 1936, 1958; Liaison Officer with B.E.F. 1939; joined Gen. de Gaulle's Free French Forces June 1940; Gov. of Chad Territory Nov. 1940; served Libyan and Tunisian campaigns; Sec. of State for Foreign Affairs 1946; Del. UN Gen. Assemblies 1947, 1948, 1949, 1951 and 1954; Del. to Council of Europe 1949-59; Minister of Ed. 1950-51; Del. UNESCO Conf. 1956; Vice-Pres. Nat. Assembly and mem. Foreign Affairs Cttee. 1957; Chair. Franco-British Parl. Cttee. 1947-59; mem. High Authority of ECSC 1959-67; Chair. Franco-German Co-operative Cttee.; Chair. of the Assn. "France-Grande-Bretagne"; mem. Institut Français (Acad. des Sciences Morales et Politiques), Franco-British Council; Dr. h.c. (Edinburgh); Croix de guerre 1940, Commdr. Légion d'honneur 1954, Hon. K.B.E., M.C. (both U.K.). *Publications:* Certitudes anglaises 1936, Narvik 1940, Chad 1942, Cromwell 1948, Herriot 1967, De Léon Blum à De Gaulle 1969, Clés de l'Angleterre 1972, Les anglais à Paris 1976, etc. *Leisure interest:* picture collecting. *Address:* 11 rue de Bellechasse, 75007 Paris, France. *Telephone:* 705-19-23.

LAPIN, Sergey Georgiyevich; Soviet diplomatist and journalist; b. 1912; ed. Univ. of Leningrad; journalist, editor, Vice-Chair. Radio Cttee. 1945-55; Diplomatic Service 1955-; Head, Third European Dept. Ministry of Foreign Affairs 1955-56; Amb. to Austria 1956-60; Vice-Chair. State Comm. for Cultural Relations with Foreign Countries 1960; Minister of Foreign Affairs of R.S.F.S.R. 1960-62; Deputy Minister of Foreign Affairs 1962-65; mem. CPSU Central Cttee. 1966-; Amb. to People's Republic of China 1965-67; Dir. of TASS 1967-70; Deputy to Supreme Soviet of U.S.S.R. 1970-; mem. Cttee. U.S.S.R. Parl. Group; Chair. State Cttee. for Television and Broadcasting, U.S.S.R. Council of Ministers 1970-; Chair. Admin. Council Int. Radio and TV Org. 1973-. *Address:* State Committee for Television and Broadcasting, Pyatnitskaya ulitsa, Moscow, U.S.S.R.

LAPOINTE, Lt.-Col. Hugues, P.C., Q.C., B.A., LL.D.; Canadian public administrator; b. 3 March 1911; Rivière-du-Loup, Quebec; s. of Rt. Hon. Ernest Lapointe and Emma Pratte; m. Lucette Valin 1938; ed. Univ. of Ottawa and Laval Univ., Quebec; M.P. for Lotbinière 1940-57; apptd. Parl. Asst. Minister of Nat. Defence 1945; Parl. Asst. to Sec. of State for External Affairs 1949; Privy Councillor and Solicitor-Gen. of Canada 1949; Del., Gen. Assembly, UN, Paris 1948, Lake Success 1949, 1950 (Vice-Chair. Canadian Del. 1950); Minister of Veterans' Affairs 1950-57; concurrently Postmaster-Gen. 1955-57; private legal practice 1957-62; Agent Gen. for Quebec in London 1961-66; Lt. Gov. of Quebec 1966-78. *Leisure interests:* golf, skiing, fishing. *Address:* 4264 Marie Victorin, St. Antoine de Tilly, Co. Lotbinière, Canada.

LAPORTE, William F., A.B., M.B.A.; American business executive; b. 3 Sept. 1913, New York; m. Ruth W. Hillard 1946; one s. two d.; ed. Princeton Univ., and Harvard Coll. of Business Administration; Pres. Whitehall Pharmacal Co. 1950-57; Vice-Pres. American Home Products Corpn. 1957-60, Dir. 1957-, Pres. 1960-73, Chair. of Board 1965-; Dir. Mfrs. Hanover Trust Co. 1965-, American Standard Inc. 1975-; Trustee, Dime Savings Bank of New York 1966-. *Address:* American Home Products Corporation, 685 Third Avenue, New York, N.Y. 10017 (Office); 435 East 52nd Street, New York, N.Y. 10022, U.S.A. (Home).

LAPPAS, Alfons; German trade unionist; b. 3 June 1929, Wiesbaden; s. of Peter and Therese Lappas (née Klee); m. Sigrid Albrecht 1954; d.; ed. secondary school; Dist. Organizer of Horticulture, Agric. and Forestry Union, Fulda and Darmstadt 1951-57, Rheinland-Palatinate Organizer 1957-59, Head of Collective Bargaining Dept., Head Office 1959-61, mem. Exec. 1961-, Vice-Pres. 1966, Pres. 1968; Exec., German Trade Union Confed. (Deutscher Gewerkschaftsbund—(DGB) 1969; Dir. holding co. for enterprises of DGB 1977-; Pres. Eurpean Fed. of Agricultural Workers 1968-71; Alt. mem. European Confed. of Trade Unions 1969-77, Finance and Gen. Purpose Cttee., Int. Confed. of Trade Unions 1969-77; mem. Econ. and Social Cttee. of European Communities 1970-76, Pres. 1972-74, 1977. *Leisure interests:* Modern literature, music, cross-country running. *Address:* Beteiligungsgesellschaft für Gemeinwirtschaft AG, Theaterplatz 2, 6000 Frankfurt-am-Main 1, Federal Republic of Germany; and economic and Social Committee of the European Communities, 2 rue Ravenstein, 1000 Brussels, Belgium. *Telephone:* 4301-386 (Fed. Repub. Germany); 12-39-20 (Belgium).

LAPPAS, Vice-Admiral Pirros; Greek naval officer; b. 11 Jan. 1900, Athens; s. of Dimitrios and Eleni Lappas; m. Maria Merlin 1940; ed. Naval Cade Coll.; Commissioned in Royal Greek Navy 1920; held various appointments both at sea and on shore; C.O. King George I 1941, and later (after joining Free Greek Forces) Samos; participated in landing operations in Italy and Southern France; Commdr. 12th Destroyer Flotilla 1944; Chief of Personnel, Admiralty 1946, and later Chief of Technical Services; Commodore in charge of Light Vessels and Submarines 1947; Deputy Chief of Naval Gen. Staff 1949; Rear-Admiral 1949; Chief Naval Commands and Gen. Inspector of the Royal Hellenic Navy 1949; C.-in-C. Royal Hellenic Fleet 1950, Vice-Admiral 1952; Chief of Naval Gen. Staff 1952-58; Chief of military household to H.M. the King 1958-60, Hon. General ADC to H.M. the King 1960; Hon. Sec. Hellenic Olympic Cttee.; mem. Int. Olympic Cttee.; Hon. C.B.E., Grand Commdr. Royal Order of George I and Grand Cross of Order of Phoenix, War Cross, D.S.M. and bars. *Leisure interest:* sport. *Address:* 26 Tsakaloff Street, Athens, Greece. *Telephone:* Athens 613-221.

LAPSLEY, William W., M.S.; American business executive; b. 14 Jan. 1910, Selma, Ala.; s. of Robert Kay and Ethel Baine (Pearce); m. 1st June Louise English 1935 (died 1952), 2nd Frances Vivian Lynn 1953; two d. two step s.; ed. U.S. Mil. Acad., Univ. of Calif.; Maj.-Gen. U.S. Army; Programme Man. Foreign Management Dept., Kaiser Jeep Corpn., Taiwan; joined Consolidated Edison Co. of New York Inc. 1969, Vice-Pres. Cen. Services 1969, Senior Vice-Pres. 1970, Exec. Vice-Pres. Cen. Operations 1971-73, Pres. 1973-75, mem. Board of Trustees 1973-; mem. U.S. team that negotiated protocol to Columbia River Treaty with Canada 1961-62. *Leisure interest:* golf. *Address:* Consolidated Edison Co. of New York Inc., 4 Irving Place, New York, N.Y. 10003 (Office); 41 Willow Oak Road, Seapines Plantation, Hilton Head, S.C. 29928, U.S.A. (Home). *Telephone:* (803) 671-4957 (Home).

LAQUEUR, Walter: American historian and political commentator; b. 26 May 1921, Breslau, Germany (now Wrocław, Poland); s. of Fritz Laqueur and Else (née Berliner); m. Barbara Koch 1941; two d.; Editor Survey 1955-65; Dir. Inst. of Contemporary History and Wiener Library, London 1964-; Editor Journal of Contemporary History 1965-; Prof. of History Brandeis Univ. 1967-70; Chair. Research Board, Center for Strategic and Int. Studies, Washington D.C. 1973-; Editor Washington Papers 1973-; Wash-

ington Quarterly 1978-; Visiting Prof. of History, Harvard 1977; Univ. Prof., Georgetown 1978-; Rockefeller Fellow, Guggenheim Fellow. *Publications:* Young Germany 1962, The Road to War 1967 1968, Europe Since Hitler 1970, A History of Zionism 1972, Confrontation 1974, Weimar 1974, Guerrilla 1976, Terrorism 1977. *Leisure interests:* swimming, motorboating. *Address:* 4 Devonshire Street, London, W.1. England; and Center for Strategic and International Studies, 1800 K Street, N.W., Washington, D.C., U.S.A.

LARA BUSTAMANTE, Fernando; Costa Rican lawyer and politician; b. 12 Jan. 1911, San José; s. of Ernesto Lara Iraeta and Angela Bustamante Castro; m. Ofelia Calvo; four s. four d.; ed. Liceo de Costa Rica and Escuela de Derecho; graduated in law 1934; Police Official, San José 1932-37; Official in Ministry of Educ. 1937-40; Dir. Jurisprudencia (law magazine) 1933-36; Deputy to Nat. Assembly 1942, re-elected 1946; mem. Editorial Comm. for Political Constitution 1948; Prof. Faculty of Law 1940-52; Deputy, First Sec., Legis. Assembly 1949; Minister of Foreign Affairs 1949-52, 1966-70; Pres. Colegio de Abogados de Costa Rica 1954-55; Deputy to Legis. Assembly 1958-62, 1966-; Pres. 1960-61; Sec.-Gen. Partido Unión Nacional 1958-66; decorations from Mexico, El Salvador, Panama, France, Italy, Vatican, Ecuador, Taiwan and Cuba. *Address:* Asamblea Legislativa, San José, Costa Rica.

LARAKI, Moulay Ahmed; Moroccan physician, diplomatist and politician; b. 15 Oct. 1931, Casablanca; ed. Univ. de Paris; with Ministry of Foreign Affairs 1956-57; Perm. Rep. to UN 1957-59; Head of Hosp. Services, Casablanca 1956-61; Amb. to Spain 1962-65, to Switzerland 1965-66, to U.S.A. and concurrently accred. to Mexico, Canada and Venezuela 1966-67; Minister of Foreign Affairs 1967-69; Prime Minister 1969-71; medical affairs 1971-74; Minister of State for Foreign Affairs 1974-77. *Address:* c/o Ministry of Foreign Affairs, Rabat, Morocco.

LARDINOIS, Petrus Josephus; Netherlands diplomatist, politician and administrator; b. 13 Aug. 1924, Noorbeek; m. Maria Hubertina Gerardine Peeters; two s. three d.; ed. Wageningen Agricultural Coll.; various agricultural posts until 1960; Agricultural Attaché, London Embassy 1960-63; mem. Second Chamber 1963-; mem. European Parl. Oct. 1963-; Pres. of Brabant Farmers' Union (N.C.B.) 1965; Minister of Agric. and Fisheries 1967-72; Commr. for Agric., Comm. of EEC 1973-77; Chair. Exec. Board, Centrale Rabobank 1977-; Catholic People's Party. *Address:* Centrale Rabobank, P.O. Box 8098, Beneluxlaan 33, Utrecht, Netherlands.

LARDNER-BURKE, Desmond William; Rhodesian politician and lawyer; b. 17 Oct. 1909, Kimberley, South Africa; s. of Edmund Lardner-Burke and May McClelland; m. Alice May Fraser 1934; two s. two d.; ed. St. Andrew's Coll., Grahamstown, South Africa; Attorney with Coghlan and Welsh, Bulawayo 1933-41; Senior Partner, Danziger and Lardner-Burke, Gwelo 1941-; Dir. of various cos.; M.P. for Gwelo 1948-53 and 1961-74; Senator 1974-; Minister of Justice, Law and Order 1974-76, of Commerce and Industry 1976-78; Pres. of Law Soc. 1955-56; Grand Officer of Legion of Merit, Independence Decoration. *Publication:* Rhodesia: The Story of the Crisis 1966. *Leisure interests:* golf, fishing. *Address:* 8 Richmond Road, Highlands, Salisbury, Zimbabwe Rhodesia. *Telephone:* 24199.

LARDY, Henry Arnold, PH.D.; American professor of biochemistry; b. 19 Aug. 1917, S. Dakota; s. of Nick and Elizabeth Lardy; m. Annrita Dresselhuys 1943; three s. one d.; ed. S. Dakota State Univ. and Univs. of Wis. and Toronto; Asst. Prof., Univ. of Wis. 1945-47, Assoc. Prof. 1947-50, Prof. 1950-66, Co-Dir. Inst. for Enzyme Research 1950-, Vilas Prof. of Biological Sciences 1966-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc., American Soc. Biological Chemists (Pres. 1964), Harvey Soc.; Hon. mem. Japanese Biochemical Soc.; Paul Lewis Award in Enzyme Chem., American Chemical Soc. 1949, Neuberg Medal, American Soc. of European Chemists 1956. *Publications:* The Enzymes (Co-Editor), 8 vols 1958-63; and research papers in biochemistry in scientific journals. *Leisure interests;* tennis, riding, retriever field trials. *Address:* 1702 University Avenue, Madison, Wis. 53706; Thorstrand Road, Madison, Wis. 53705, U.S.A. (Home). *Telephone:* 608-262-3371 (Office); 608-233-1584 (Home).

LARKIN, Arthur E., Jr., B.A.; American food executive; b. 7 March 1917; ed. Blake School and Dartmouth Coll.; served U.S. Navy 1940-45; with Geo. A. Hormel & Co. 1946-58, Vice-Pres. and Dir. 1953-58; joined Gen. Foods Corpn. 1958, Maxwell House Marketing Man. 1958-59, Maxwell House Gen. Man. 1959-62, Vice-Pres. Gen. Foods Corpn. 1960, Exec. Vice-Pres. Operations 1962-65, Dir. Gen. Foods Corpn. 1963-, Exec. Vice-Pres. 1965-66, Pres. and Chief Operating Officer 1966-72; Pres. Keelber Co., subsidiary of United Biscuits Holding Ltd. 1973-, Chair. and Chief Exec. 1974-; Dir. United Biscuits Holdings Ltd. *Address:* General Foods Corporation, 250 North Street, White Plains, N.Y. 10602, U.S.A.

LARKIN, Felix Edward, A.B., M.B.A., J.P.; American business executive; b. 3 Aug. 1909, New York; s. of John A. Larkin and Maria C. Henry; m. Evelyn M. Wallace 1937; two s. one d.; ed. Fordham Univ., New York Univ. Graduate School of Business Admin. and St. John's Univ. School of Law; Law Sec. Court of Gen. Sessions, N.Y. 1939-47; Asst. Gen. Counsel, Dept. of Defense 1947-49, Gen. Counsel 1950-51; joined W. R. Grace & Co. 1951, Man. Industrial Relations Div., Vice-Pres. 1955, Exec. Vice-Pres. in charge of Corporate Admin. 1958, Dir. 1963-, Pres. and Chief Operating Officer 1971-74, Chair. 1974-; Dir. Marine Midlands Banks Inc.; mem. Exec. Reserve Office of Sec. of Defense 1961-63; mem. Nat. Manpower Advisory Cttee, 1962-66; mem. Advisory Cttee. Foreign Service Inst., Washington, D.C. 1961-63; mem. Board of Trustees, Fordham Univ., Chair. 1970-77; Dir. American Arbitration Assn.; mem. several boards. *Publication:* Uniform Code of Military Justice. *Leisure interest:* golf. *Address:* W. R. Grace & Co., Grace Plaza, 1114 Avenue of the Americas, New York, N.Y. 10036, U.S.A. (Office). *Telephone:* 212-344-1200 (Office).

LARKIN, Frederick George, Jr.; American banker; b. 28 Dec. 1913, Seattle; s. of Frederick George Larkin and Virginia Manny Larkin; m. Frances D. Williams 1938; one d.; ed. Univ. of Washington, Stanford Univ., and Graduate School of Banking (Rutgers Univ.); joined Security Pacific Nat. Bank 1936, Pres. and Dir. 1961-69, Chief Exec. Officer 1967-78, Chair. of Board 1969-78, Chair. Exec. Cttee. 1978-; Chair., Chief Exec. Officer Security Pacific Corpn. 1971-78; Dir. Getty Oil Co. 1962-, Carnation Co. 1969, Rockwell International Corpn. 1969, Southern Calif. Edison Co. 1969-, Bank of Canton (Hong Kong) 1971-, Tricontinental Cprn. Ltd. (Australia) 1971-78, Security Pacific Interamerican Bank, S.A. (Panama) 1975-, Fed. Reserve Bank of San Francisco 1978-; official of civic, religious and philanthropic orgs. *Address:* Security Pacific National Bank, P.O. Box 2097, Terminal Annex, Los Angeles, Calif. 90051 (Office); 771 South Windsor Boulevard, Los Angeles, Calif. 90005, U.S.A. (Home).

LARKIN, Philip Arthur, C.B.E., C.LIT., M.A., F.R.S.L.; British poet and librarian; b. 9 Aug. 1922, Coventry; s. of Sydney Larkin and Eva Emily (née Day); unmarried; ed. King Henry VIII School, Coventry, and St. John's Coll., Oxford; posts in various libraries 1943-55; Librarian of Brynmor Jones Library, Univ. of Hull 1955-; Queen's Gold Medal for Poetry 1965; Visiting Fellow, All Souls Coll., Oxford 1970-71, Hon. Fellow, St. John's Coll., Oxford 1973; Hon. D.Lt. (Belfast) 1969, Hon. D.Litt. (Leicester) 1970, (Warwick) 1973 (St. Andrews, Sussex) 1974, Loines Award for Poetry 1974, A. C. Benson Silver Medal (R.S.L.) 1975, Shakespeare Prize (FVS Hamburg) 1976, Coventry Award of Merit 1978. *Publications:* The North Ship (poems) 1945, Jill (novel) 1946, A Girl in Winter (novel) 1947, The Less Deceived (poems) 1955, The Whitsun Weddings (poems) 1964, All What Jazz (essays on jazz) 1970, The Oxford Book of Twentieth Century English Verse (ed.) 1973, High Windows (poems) 1974. *Address:* c/o Faber and Faber Ltd., 3 Queen Square, London, WC1N 3AV, England.

LAROSIÈRE DE CHAMPFEU, Jacques Martin Henri Marie de; French international banking executive; b. 12 Nov. 1929, Paris; s. of Robert and Hugayte (de Champfeu) de Larosière; m. France du Bos 1960; one s. one d.; ed. Lycée Louis-le-grand and Paris Univ.; Inspecteur adjoint 1958, Insp. des Finances 1960; Chargé de Mission in Inspectorate-Gen. of Finance 1961, External Finance Office 1963, Treasury 1965; Asst. Dir. Treasury 1967; Deputy Dir. then Head of Dept. Ministry of Econs. and Finance 1971; Principal Private Sec. to Valéry Giscard d'Estaing (then Minister of Econs. and Finance) 1974; Under-sec. of Treas. 1974-78; Man. Dir. and Chair. Board, IMF June 1978-; Dir. Renault 1971-74, Banque nat. de Paris 1973-78, Air France and French Railways 1974-78, Soc. nat. industrielle aerospatiale 1976-78; Censeur Banque de France 1974-78, Crédit nat. 1974-78, Comptoir des Entrepreneurs 1973-75, Crédit foncier de France 1975-78; Vice-Pres. Caisse nat. des. Télécommunications 1974-78; Chair. Deputies Group of Ten 1976-78; Chevalier, Légion d'honneur, Chevalier, Ordre nat. du Mérite. *Address:* International Monetary Fund, 700 19th Street, N.W., Washington, D.C. 20431, U.S.A. *Telephone:* (202) 477-3057.

LARRABEE, Martin Glover, PH.D.; American professor of biophysics; b. 25 Jan. 1910, Boston, Mass.; s. of Ralph Clinton Larrabee and Ada Perkins Miller; m. 1st Sylvia Kimball 1932 (divorced 1944), one s.; m. 2nd Barbara Belcher 1944, one s.; ed. Harvard Coll. and Univ. of Pennsylvania; Research Asst. and Fellow, Univ. of Pa. 1934-40, Assoc., Asst. Prof., Assoc. Prof. 1941-49; Asst. Prof.

of Physiology, Cornell Medical Coll., New York City 1940-41; Assoc. Prof. of Biophysics, Johns Hopkins Univ. 1946-63, Prof. of Biophysics 1963-; mem. Nat. Acad. of Sciences, American Physiological Soc., Biophysical Soc., Int. Soc. for Neurochem., American Soc. for Neurochem., Soc. for Neuroscience; Foreign Assoc. Physiological Soc., England; Hon. M.D. (Lausanne) 1974. *Publications:* About 50 technical papers and 50 abstracts covering original research in the circulatory, respiratory and nervous systems of mammals, especially on synaptic and metabolic mechanisms in sympathetic ganglia. *Leisure interests:* mountain-hiking, skiing, photography. *Address:* Department of Biophysics, Johns Hopkins University, Baltimore, Md. 21218, U.S.A. *Telephone:* 301-338-7256 or 7245.

LARRE, René J.; French civil servant; b. 21 Feb. 1915, Pau; m. Thérèse Allègre 1951; three d.; ed. Faculté de Droit and Ecole des Sciences Politiques, Paris; Inspector of Finance 1942-45; External Relations Dept., Ministry of Econ. Affairs 1946-50; Asst. Exec. Sec. Int. Materials Conf. 1951; Technical Counsellor, French Embassy, Washington 1952-54; Technical Adviser, Office of Minister of Finance 1955; Dir. Office of Sec. of State for the Budget 1956; Exec. Dir. IBRD 1957-67; Dir. Office of Minister of Finance 1957-58; Exec. Dir. EIB 1958-61; Financial Minister, French Embassy in Washington, D.C. 1961-67; Exec. Dir. IMF 1964-67; Dir. of Treasury, Ministry of Finance, Paris 1967; Gen. Man. BIS 1971-. *Address:* 7 Centralbahnstrasse, CH 4051 Basel, Switzerland; 31 boulevard du Commandant Charcot, 92 Neuilly-sur-Seine, France.

LARROCHA, Alicia de; Spanish concert pianist; b. 23 May 1923, Barcelona; d. of Eduardo and Teresa (de la Calle) de Larrocha; m. Juan Torra 1950; one s. one d.; ed. private school; first public recital, Barcelona 1928; first orchestral concert with Madrid Symphony Orchestra under Fernandez Arbós, Madrid 1935; concert tours in Europe, South America, U.S.A., Canada, Japan, South Africa, New Zealand, Australia; Dir. Academia Marshall, Barcelona 1959; mem. Board Dirs. Musica en Compostela 1968; Hon. Pres. Int. Piano Archives, New York 1969; corresp. mem. Hispanic Soc. of America, New York 1972; Gold Medal, Academia Marshall 1943, Harriet Cohen Int. Music Award 1956, Grand Prix du Disque Académie Charles Cros, Paris 1960, 1974, Paderewski Memorial Medal 1961, Orders of Civil Merit 1962, Isabel la Católica 1972, Edison Award, Amsterdam 1968, first Gold Medal, Mérito a la Vocación 1973, Grammy Award, U.S.A. 1974, 1975, Musician of the Year (Musical America Magazine) 1978, Edison Award, Amsterdam 1978.

LARRY, R. Heath, LL.D., LL.B.; American steel company executive; b. Feb. 1914, Huntingdon, Pa.; s. of Ralph E. and Mabel (Heath) Larry; m. Eleanor Ketler 1938; three s.; ed. Grove City Coll., Univ. of Pittsburgh; Attorney, National Tube Co. 1938-44, Sec., then Dir. 1944-48; Attorney, U.S. Steel Corpn. 1948-52, Asst. gen. solicitor 1952-58, Admin. Vice-Pres. Labour Relations 1958-66, Exec. Vice-Pres., asst. to Chair. 1966, Vice-Chair. Board of Dirs. 1969, retd. 1977; Pres. Nat. Assn. of Mfrs. 1977-; mem. Bd. of Visitors, Univ. Pittsburgh, Council on Foreign Relations, Ethics Resource Center, U.S.-U.S.S.R. Trade and Econ. Council, The Conf. Board, Foreign Policy Assn., Business Cttee. for the Arts; Trustee of U.S. Council of International Chamber of Commerce Inc. *Leisure interests:* golfing, skiing, sailing. *Address:* 1776 F Street, N.W., Washington D.C. (Office); Watergate East, 10025, 2500 Virginia Avenue, N.W., Washington D.C. 20037, U.S.A. *Telephone:* 202-331-3800 (Office).

LARSEN, Roy Edward, A.B.; American publisher; b. 20 April 1899, Boston, Mass.; s. of Robert and Stella (Belyea) Larsen; m. Margaret Zerbe 1927; three s. one d.; ed. Boston Latin School, and Harvard Univ.; with New York Trust Co. 1921-22; Time Inc. 1922-, Circulation Man. Time 1922, Vice-Pres. Time Inc. 1927-39, March of Time radio 1931, March of Time cinema 1934, Dir. Time Inc. 1933, Publisher Life 1936-46, Pres. Time Inc. 1939-60, Chair. Exec. Cttee. 1960-69, Vice-Chair. 1969-; Chair. U.S. Advisory Cttee. on the Arts; Chair. Nantucket Conservation Foundation; mem. Board of Governors, The Nature Conservancy; Trustee, Ford Foundation 1957-69; Hon. Trustee, New York Public Library; Trustee, Cttee. for Econ. Devt., etc.; Hon. LL.D. (Marietta Coll., Dartmouth, Bucknell, New York, Harvard, Tufts Univs.), Hon. L.H.D. (Bard Coll., Kalamazoo Coll., Temple Univ.), Chevalier de la Légion d'honneur. *Leisure interests:* conservation, education. *Address:* Time and Life Building, Rockefeller Centre, New York, N.Y. 10020 (Office); 4900 Congress Street, Fairfield, Conn., U.S.A. (Home).

LARSON, Arthur, M.A., D.C.L., LL.D.; American lawyer, university professor and politician; b. 4 July 1910, Sioux Falls; s. of Judge Lewis Larson and Anna B. (Huseboe); m. Florence Faye Newcomb 1935; [illegible] s. [illegible] d.; ed. Augustana Coll., Univ. of South Dakota and Pembroke Coll., Oxford; practised law Milwaukee, Wisconsin 1935-39; Asst. Prof. of Law, Univ. of Tenn. 1939-41; Div. Counsel, Office of Price Admin., Washington 1941-44; Head Scandinavian Branch, Foreign Econ. Admin., Washington 1944-45; Prof. of Law, Cornell Law School 1945-53; Dean Univ. of Pittsburgh Law School 1953-54; Under-Sec. of Labour, Washington 1954-56; Dir. U.S. Information Agency 1956-57; Special Consultant 1958-61; Dir. Rule of Law Research Centre; James B. Duke Prof. of Law, Duke Univ., Durham N.C. 1959-; Consultant, U.S. Dept. of State; Consultant to Pres. on Foreign Affairs; Hon. Fellow, Pembroke Coll., Oxford. *Publications:* Towards World Prosperity (joint author) 1947, Cases on Corporations (with R. S. Stevens) 1947, The Law of Workmen's Compensation, 9 vols. 1952, Know Your Social Security 1955, 1959, A Republican Looks at His Party 1956, What We Are For 1959, The International Rule of Law 1961, When Nations Disagree 1961, A Warless World 1963, Propaganda: Towards Disarmament in the War of Words (with J. B. Whitton) 1964, Vietnam and Beyond (with D. R. Larson) 1965, Eisenhower: The President Nobody Knew 1968, Population and Law (with L. T. Lee) 1971, Workmen's Compensation for Occupational Injuries and Death (2 vols.) 1972, The Law of Employment Discrimination (4 vols.) 1975. *Leisure interests:* collecting and playing ancient stringed instruments, musical composition and arranging, classical guitar, folk songs, sailing. *Address:* The Law School, Duke University, Durham, N.C. (Office); No. 1 Learned Place, Durham, N.C. 27705, U.S.A. (Home). *Telephone:* 919-684-3518 (Office); 919-489-4530 (Home).

LARSON, Helge, M.A.; Danish teacher and politician b. 25 April 1915, Vester-Aaby; s. of Johs. Larsen and Kamilla Larsen; m. Tonny Lolk 1942; one s. one d.; ed. Univ. of Copenhagen. Sec. to Chief Editor of Politiken (Vald. Koppel) 1942-44; Sec. Social Liberal Party 1943-46; teacher, Copenhagen 1946-49, Nykøbing Falter 1949-65; Headmaster of Gladsaxe Gymnasium 1965-68; mem. Folketing 1956-64, Nordic Council 1957-64; mem. Board Danish State Radio and TV 1959-68, 1974-78; Minister of Educ. 1968-71. *Publications:* Kensgerninger om Sydslesvig (Facts on Southern Schleswig) 1946, Politiske Grundtanker, liberalisme og socialisme (Political Ideas, Liberalism and Socialism) 1948; contributor to Socialliberale Tanker (Social-liberal Ideas) 1950, De politiske Partier (Political Parties in Denmark) 1950, 1964, Kort besked om EF (Brief Information on the EEC). *Address:* St. Kongensgade 27, 1264 Copenhagen K, Denmark.

LARSSON, Lars-Erik; Swedish musician; b. 15 May 1908, Åkarp; s. of Lilly and Vilner Larsson; m. Brita Holm 1936; one s.; ed. Stockholm, Vienna and Leipzig; at Royal Swedish Opera 1930-31; music critic 1933-37; conductor Swedish Broadcasting Co. 1937-54; Prof. Kungl. Musikhögskolan 1947-59; Dir. of Music, Uppsala 1961-65; mem. Council Swedish Assn. of Composers. *Compositions:* three Concert Overtures, Sinfonietta for String Orchestra, Serenade for Strings, Divertimento, Pastoral Suite, Music for the Orchestra, Orchestral Variations, Three Orchestral Pieces, Lyric Fantasy, Due Auguri, Saxophone Concerto, Violin Concerto, 12 Concertinos, music to Shakespeare's The Winter's Tale; opera—The Princess of Cyprus; Disguised God and The Sundial and the Urn for solo, choir and orchestra, Missa Brevis and Three Quotations for unaccompanied choir; chamber music, songs and piano music. *Address:* Mäster Ernstgatan 6A, 25235 Helsingborg, Sweden.

LARTIGUE, Jacques Henri; French painter and photographer; b. 13 June 1894, Courbevoie; m. Florette Ormea 1945; ed. Acad. Jullian, Paris; exhbns. of painting 1920-, in Paris 1924-39, 1946-, Maison de la Culture Maçon, Musée d'Histoire Naturelle Marseille, Palais de l'Europe Menton; exhbns. of photography in various galleries 1963-; Silver Medal of Paris; Chevalier Légion d'honneur. *Publications include:* Boyhood of J. H. Lartigue, Diary of a Century, Femmes, Mémoires sans mémoire, J. H. L. et les autos, J. H. Lartigue, Son livre de photographies, Portfolio of Ten Photos. *Address:* 102 rue de Longchamp, 75116 Paris; and 06860 Opio Village, France. *Telephone:* 727-06-25 (Paris): 67-63-42.

LASCELLES, Rt. Hon. Sir Alan Frederick, P.C., G.C.B., G.C.V.O., C.M.G., M.C., M.A.; British palace official; b. 11 April 1887; s. of Hon. F. C. Lascelles; m. Hon. Joan Thesiger 1920 (died 1971); one s. (dec.) two d.; ed. Marlborough Coll., and Trinity Coll., Oxford; served with Bedfordshire Yeomanry 1914-18, Capt. 1916; ADC to Lord Lloyd when Gov. of Bombay 1919-20; Asst. Private Sec. to Prince of Wales 1920-29; Sec. to Gov.-Gen. of Canada 1931-35; Asst. Private Sec. to the King 1935-43, Private Sec. 1943-52, to the Queen 1952-53, Keeper of the King's Archives 1945-52, Queen's Archives 1952-53; Chair. Pilgrim Trust 1954-60; Chair. Historic Bldgs. Council for England 1958-63; fmr. Dir. Midland Bank, Royal Acad. of Music; LL.D. (Hon.) Bristol and Durham, Hon. D.C.L. (Oxford) 1963. *Address:* Kensington Palace, London, W.8, England.

LASDUN, Sir Denys Louis, Kt., C.B.E., F.R.I.B.A.; British architect; b. 8 Sept. 1914, London; s. of Norman Lasdun and Julie

Abrahams; m. Susan Bendit 1954; two s. one d.; ed. Rugby School and Architectural Assen., London; served with Royal Engineers 1939-45; practised with Wells Coates, Tecton, Drake; own architectural practice with Alexander Redhouse and Peter Softley 1960-; Hoffman Wood Prof. of Architecture, Univ. of Leeds 1962-63; Assessor, Competitions for Belgrade Opera House 1971, and new Parliamentary Bldg., London 1971-72; mem. Jerusalem Town Planning sub-Cttee. 1970, Mars Group, Victoria and Albert Museum Advisory Cttee. 1973-; Trustee, British Museum 1975-, Slade Cttee 1976-; Hon. A.I.A.; Hon. D.Litt. (East Anglia) 1974, (Sheffield) 1978; Hon. F.R.C.P. 1975; R.I.B.A. London Architecture Bronze Medallist 1960, 1964, Civic Trust Awards; Class I, 1966, Group A 1969, Special Award, São Paulo Biennale, Brazil 1969, R.I.B.A. Royal Gold Medal for Architecture 1977, Concrete Society Award 1977, R.I.B.A. London Region Award for Nat. Theatre 1978. *Works include:* housing and schools for Bethnal Green and Paddington, London; London headquarters of Govt. of N.S.W. (fmrly. Peter Robinson, Strand); flat at 26 St. James's Place, London; Royal Coll. of Physicians, London; Fitzwilliam Coll. and Christ's Coll. extension, Cambridge; devt. plan and buildings for new Univ. of East Anglia; Univ. of London redevelopment (S.O.A.S., Inst. of Educ., Law Inst., Courtauld Inst.); Nat. Theatre, South Bank, London; new EEC headquarters for EIB, Luxembourg; Sotheby & Co.; headquarters, Plant Protection Division, ICI; work for Univs. of Leicester and Liverpool. *Publications:* A Language and a Theme 1976; contributions to architectural and other papers. *Address:* 25 Dawson Place, London, W2 4TH, England.

LASKARIS, Constantine; Greek trade unionist and politician; b. 1918, Athens; with Free Greek Armed Forces; [illegible] Gen. Confed. of Greek Workers; Adviser to OECD; mem. Exec. Cttee. of Labour Comm., EEC; Instructor Training School for Senior Police Officers 1963-67; Minister of Employment July-Oct. 1974, Nov. 1974-; Founding mem., mem. of Board, Greek NATO Assen. *Address:* Ministry of Labour, Athens, Greece.

LASKEY, Sir Denis Seward, K.C.M.G., C.V.O.; British diplomatist; b. 18 Jan. 1916, London; s. of F. S. and E. D. N. Laskey; m. Perronnelle M. G. Le Breton 1947; [illegible] s. three d.; ed. Marlborough Coll. and Corpus Christi Coll., Oxford; entered diplomatic service 1939; army service 1940-41; Foreign Office 1941-46; served in Berlin 1946-49, New York (Del. to UN) 1949-53; Foreign Office 1953-60; Minister, Rome, 1960-64; Cabinet Office 1964-67; Minister, Bonn 1967-69; Amb. to Romania 1969-72, to Austria 1972-76. *Leisure interests:* golf, shooting, fishing. *Address:* Loders Mill, Bridport, Dorset, England.

LASKIN, Rt. Hon. Bora, P.C., M.A., LL.M., D.C.L., LL.D., D.PHIL., F.R.S.C.; Canadian judge; b. 5 Oct. 1912, Thunderbay; s. of late Max Laskin and late Bluma Singel; m. Peggy Tenenbaum 1938; one s. one d.; ed. Univ. of Toronto, Osgoodehall Law School, Harvard Univ. Law School; Lecturer in Law, Univ. of Toronto 1940-43, Asst. Prof. 1943-45, Prof. of Law 1949-65; Lecturer in Law, Osgoodehall Law School 1945-49; Judge Court of Appeal, Ont. 1965-70; Judge Supreme Court of Canada 1970-73; Chief Justice of Canada 1973-; Hon. Bencher, Lincoln's Inn 1974. *Publications:* Canadian Constitutional Law (revised edn.) 1969, The British Tradition in Canadian Law (Hamlyn Lectures) 1969. *Address:* Supreme Court of Canada, Wellington Street, Ottawa (Office). *Telephone:* 992-5388 (Office).

LASKORIN, Boris Nikolayevich, DR.SC.; Soviet chemist; b. 24 June 1915, Brest; ed. Kiev Univ.; Research Assoc. Inst. of Chemical Industry 1938-52; mem. CPSU 1945-; U.S.S.R. Inst. of Chemical Technology 1952-; Dr.Sc. (Engineering), Prof. 1958-; corresp. mem. U.S.S.R. Acad. of Sciences 1966-; Honoured Inventor of R.S.F.S.R. 1964; Order of Lenin, and other decorations. *Publications:* Works on chemistry and production technology of non-organic materials. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

LASKOV, Haim; Israeli army officer and administrator; b. April 1919, Borisov, Russia; s. of Moshe and Yetta (Hirschfeld) Laskov; m. Shulamit Hen 1950; ed. Reali School, Haifa, and St. Anthony's Coll., Oxford; active mem. Hagana 1929-40; served British Army 1940-46, Maj. in Jewish Brigade 1944; armour commdr. Israel War of Liberation 1948; founder first I.D.F. Officer's School 1948; Dir.-Gen. Mil. Training 1949-50; Commdr. Israel Air Force 1951-53; Deputy Chief of Staff I.D.F. 1955; Armour Corps Commdr. before and during Sinai campaign 1956; Commdr. Southern Command 1957; Chief of Staff I.D.F. 1958-61; Dir.-Gen. Israel Port Authorities 1961-70; Ombudsman to I.D.F. 1972-; mem. Inquiry Comm. into Yom Kippur War 1973. *Publications:* Military training manuals, I.D.F.; essays on military problems. *Leisure interests:* reading, walking. *Address:* 75 Einstein Street, 69102 Tel-Aviv, Israel (Home). *Telephone:* 410372.

LASSUS SAINT-GENIÈS, Baron Etienne de; French industrialist; b. 7 June 1887; Hon. Pres. and fmr. Dir. Compagnie Française Thomson-Brandt; Hon. Pres. Compagnie des Lampes; Vice-Pres. Soc. Générale des Constructions Electriques et Méchaniques 1951-68, Hon. Pres. 1968-; fmr. Dir. Soc. Centrale de Dynamite, Compagnie Universelle d'Acétylène et Electro-métallurgie, Soc. de Grands Travaux de Marseille, Soc. Centrale pour l'Industrie; Grand Officer Légion d'honneur, Croix de guerre (1914-18). *Address:* 63 avenue Kléber, 75016 Paris, France.

LAŠTOVIČKA, Bohuslav; Czechoslovak politician and journalist; b. 29 April 1905, Pelhřimov; ed. Mil. Acad.; Editor Rudé právo 1934-35; Commdr., Czechoslovak Volunteer Anti-aircraft Battery, Spain (civil war); in U.K. 1939-45; Dir. of Czechoslovak Radio 1945-48; Czechoslovak Amb. to U.S.S.R. 1948-50; Deputy Minister of Nat. Defence 1950-52; Editor-in-Chief Nová mysl 1957-61; Head of Int. Dept. of Cen. Cttee. of CP of Czechoslovakia 1961-64; Deputy to Nat. Assembly 1964-69, mem. Presidium Nat. Assembly 1964-68; Deputy House of the People Fed. Assembly 1969-, mem. Presidium Fed. Assembly 1969-71, 1971-; Chair. Foreign Affairs Cttee. House of the People 1969-; First Deputy Chair. of Czechoslovak Group of Inter-Parl. Union 1969-70; mem. Cen. Cttee. of CP of Czechoslovakia 1945-52, 1957-, mem. Presidium 1964-68; mem. Ideological Comm. Cen. Cttee., Czechoslovak CP 1963-65; mem. Presidium Czechoslovak Group of Inter-Parl. Union 1970-; Deputy Chair. Czechoslovak Cttee. for European Security 1970-; Order of White Lion 1st Class 1948, Order of the Repub. 1960, Klement Gottwald Order 1965, Order of the Red Star 1966, Order of Victorious February 1973. *Address:* Federal Assembly, Prague, Czechoslovakia.

LÁSZLO, Andor; Hungarian banker, university professor and economist; b. 24 Dec. 1914, Szombathely; m. 1941; one s.; ed. Budapest and Vienna Univs.; Hungarian Gen. Credit Bank, Budapest 1936; Office of State Banks until 1948; directed establishment of Hungarian Savings Bank System 1948; Deputy Chief, Credit Dept. Nat. Bank of Hungary 1948-49; Chief Banking and Credit Dept., Ministry of Finance 1949-54; Prof. Karl Marx Univ., Budapest 1950-; Gen. Man. Nat. Savings Bank 1954-61; Pres. Nat. Bank of Hungary 1961-75 (retd.); Sec. of State 1968-75 (retd.); various Hungarian honours. *Address:* Varázs u. 7-9, 1125 Budapest, Hungary. *Telephone:* 364-166.

LATHAM, Sir Joseph, Kt., C.B.E., F.C.A., COMP.I.E.E.; British business executive; b. 1 July 1905, Prestwich, Lancs. (now Greater Manchester); s. of John and Edith Latham (née Bown); m. Phyllis Mary Fitton 1932; one s. one d.; ed. Stand Grammar School; Dir. and Sec. Manchester Collieries Ltd. 1941-46; Dir.-Gen. Finance, Nat. Coal Board 1946-55, Finance mem. 1955-56, Deputy Chair. 1956-60; Dir. Assoc. Electrical Industries Ltd. 1960, Finance Dir. 1961, Vice-Chair. 1964-65, Deputy Chair. 1965-68, Man. Dir. 1967-68; Chair. Metal Industries Ltd. 1968-72; other directorships include George Wimpey & Co. Ltd., Thorn Electrical Industries Ltd.; Dir. Black and Decker (Europe). *Leisure interest:* golf. *Address:* 25 Badingham Drive, Fetcham, Leatherhead, Surrey, KT22 9EU, England. *Telephone:* Leatherhead 72433.

LATHIÈRE, Bernard, L. EN D.; French aviation executive; b. 4 March 1929, Calcutta, India; s. of Jean and Lucienne (Fagneaux) Lathière; m. Odette Duport 1957; one s.; ed. Lycée Montaigne and Lycée Henry-IV, Faculty of Law, Paris, Ecole nationale d'administration; Deputy Insp. of Finances 1955, Insp. of Finances 1957; Rapporteur, Export Comm. 1958; Tech. Adviser to Minister of the Armed Forces 1959-60; Chargé de Mission, direction de la Construction 1961; Tech. Adviser to Minister of Public Works 1962-66; Asst. Man. Air Transport 1966-68, Man. 1968-74; Dir. Sud-Aviation 1968; Pres. French Del. on construction of Concorde, Airbus 1968-; Dir. Société nationale industrielle aérospatiale (SNIAS) 1970, mem. Supervisory Council 1974-75, Adviser to Chair. of Board 1974-; Dir. Société nationale d'études et de construction de moteurs d'aviation (SNECMA) 1970-75; Deputy Govt. Commr. to Air France 1968-,to Union des transports aériens (U.T.A.) 1971-; Pres. and Chief Exec. Airbus-Industrie 1975-; Officer de l'ordre national du Mérite, Medaille de l'aéronautique. *Address:* 5 av. de Villiers, 75017 Paris, France.

LATOUR-ADRIEN, Hon. Sir (Jean François) Maurice, Kt., LL.B.; Mauritius judge; b. 4 March 1915; s. of late Louis C. E. Adrien and Maria E. Latour; ed. Royal Coll., Mauritius, Univ. Coll., London and Middle Temple, London; called to the Bar, Middle Temple, and in Mauritius 1940; District Magistrate 1947-48; Crown Counsel 1948-60; Asst. Attorney-Gen. 1960-61; Solicitor-Gen. 1961-64; Dir. of Public Prosecutions 1964-66; Puisne Judge 1966; Chief Justice of the Supreme Court of Mauritius 1970-77; Acting Gov.-Gen. Feb. 1973, July-Aug. 1974, Jan.-Feb. 1975, June-Aug. 1975,

July-Sept. 1976; Editor Annual Mauritius Law Reports; Vice-Pres. I.D.E.F. (Institut de Droit d'Expression Française); Kt. Order of St. Lazarus of Jerusalem 1969. *Address:* Vacoas, Mauritius.

LA TRAMERYE, Raymond de, L. ÈS L., L. ÈS D., DIPL. DES SC. POLITIQUES; French industry executive; b. [illegible] May 1901; one s.; ed. Univ. of Paris; founder and Pres. Dir.-Gen. Société Tubest and Assoc. Companies 1928-71, [illegible] Hon. Pres.; Chevalier de la Légion d'honneur, Croix de guerre (1939-45); French and Polish Resistance Medals, American Silver Star, etc. *Leisure interests:* riding, archaeology, photography. *Address:* 6 rue Quentin-Bauchart, Paris 8e, France. *Telephone:* BAL 55-68.

LATREILLE, André; French historian and university professor; b. 29 April 1901, Lyon; s. of Prof. Camille Latreille; m. Suzanne Ruplinger 1924; four s. six d.; ed. Lycée Ampère de Lyon, and Univ. de Lyon; Prof. Lycées de Clermont Ferrand, Marseille and Lyon 1924-37; Prof. Univ. of Poitiers 1937-44; with Ministry of the Interior 1944-45; Prof. of Modern History, Univ. of Lyon 1945-; Prof. Institut d'Etudes Politiques (Paris, Lyon, Grenoble); mem. Comité Consultatif des Universités; historical editor Le Monde; Corresp. mem. L'Institut de France; hon. Dr. (Laval); Officier Légion d'honneur, Commdr. St. Grégoire le Grand. *Publications:* Napoléon et le Saint-Siège 1935, Le catéchisme impérial de 1806 1935, L'eglise catholique et la Révolution Française (2 vols. 1946 and 1950), Les forces religieuses et la vie politique 1951 (with A. Siegfried), Histoire de Lyon, Kleinclausz (Vol. III), Cahiers d'histoire des universités de Lyon, Grenoble, Clermont 1956; Histoire du catholicisme en France (with J. R. Palanque, E. Delaruelle and R. Rémond) (3 vols.) 1957-62, La Seconde Guerre Mondialè 1966, Montalembert: Correspondance inédite, 1862-1870 1970, L'ère Napoléonienne 1974, Histoire de Lyon et du Lyonnais 1975, De Gaulle: La liberation et l'église catholique 1978; complete bibliography in Mélanges André Latreille 1972. *Address:* 8 [illegible] Dominique Perfetti, 69001 Lyon, France.

LATTIMORE, Owen, F.R.G.S.; American educator and writer; b. 29 July 1900, Washington, D.C.; s. of David Lattimore and Margaret Barnes Lattimore; m. late Eleanor Holgate 1926; one s.; ed. St. Bees School, Cumberland, and Harvard Univ.; Business and journalism, China 1919-25; research work for Social Science Research Council in Manchuria 1929-30, for Harvard-Yenching Inst. Peiping 1930-31, for Guggenheim Foundation 1931-33; research, China and Mongolia to 1937; Editor of Pacific Affairs 1934-41; special political adviser to Generalissimo Chiang Kai-shek 1941-42; Dir. Pacific Operations, Office of War Information 1943-44; [illegible] Vice-Pres. Wallace's mission in Siberia and China 1944; Econ. Adviser American Reparations Mission in Japan 1945-46; Chief UN Technical Aid Exploratory Mission to Afghanistan 1950; numerous visits to Mongolia 1961-78; Prof. of Chinese Studies, Leeds Univ. 1963-70; mem. American Philosophical Soc., Royal Soc. for Asian Affairs; Foreign mem. Acad. of Sciences Mongolian People's Repub.; Hon. mem. American Geographical Soc., Körosi Csoma Soc., Hungary; Hon. Litt.D. (Glasgow), Hon. Ph.D. (Copenhagen), Hon.D.Jur. (Brown); Cuthbert Peek Grant of Royal Geographical Soc. 1930, Gold Medal Geographical Soc. of Philadelphia 1933, Patron's Medal Royal Geographical Soc. 1942, Gold Medal, Univ. of Ind. *Publications:* The Desert Road to Turkestan 1928, High Tartary 1930, Manchuria: Cradle of Conflict 1932, The Mongols of Manchuria 1934, Inner Asian Frontiers of China 1940, Mongol Journeys 1941, America and China 1943, The Making of Modern China (with Eleanor Lattimore) 1944, Solution in Asia 1945, China, A Short History (with Eleanor Lattimore) 1947, The Situation in Asia 1949, Pivot of Asia 1950, Ordeal by Slander 1950, Nationalism and Revolution in Mongolia 1955, Nomads and Commissars 1962, Studies in Frontier History 1962, Silks, Spices and Empire (with Eleanor Lattimore) 1968. *Address:* Department of Chinese Studies, Leeds University, LS2 9JT, England.

LATTRE, André Marie Joseph de; French banker; b. 26 April 1923, Paris; m. Colette Petit 1947; three s. two d.; ed. Univs. de Paris à la Sorbonne and Grenoble, and Ecole libre des sciences politiques; Inspector of Finance 1946; with Ministry of Finance 1948-; Dept. of External Finance 1949-54, Sub-Dir. 1955-58; Alt. Extraordinary Div. IMF 1954; Prof. Inst. d'Etudes Politiques, Paris 1958-; Financial Adviser to Pres. of the Repub. 1958-60; Perm. Sec. Ministry of Finance 1960-61; Dir. of External Finance 1961; Censor, Bank of France 1962, Vice-Gov. 1966-; Mission to India for Pres. IBRD 1965; Alt. Dir. BIS 1973; Pres. Crédit National 1974; Officier Légion d'honneur and foreign awards. *Leisure interests:* skiing, tennis. *Address:* 9 boulevard du Château, 92 Neuilly-sur-Seine; 45 rue St. Dominique, 75007 Paris, France. *Telephone:* 624-79-00 (Home).

LATYMER, Baron; **Thomas Burdett Money-Coutts,** M.A.; British banker; b. 6 Aug. 1901; ed. Radley Coll., and Trinity Coll., Oxford; entered Banking House of Messrs. Coutts & Co., London 1924; mem. 1948-, London Cttee. Ottoman Bank, Chair. 1948-75; Chair. Investment Trust Corpn., Metropolitan Trust Co. Ltd., London Maritime Investment Trust, North Atlantic Securities Corpn., Anglo-American Securities Corpn. Ltd., London and Thames Haven Oil Wharves Ltd.; mem. of Board of Mercantile Investment Trust Ltd., U.K. Provident Inst., Messrs. Coutts & Co., Claverhouse Investment Trust Ltd., and Nat. Provincial Bank; mem. Council of Foreign Bondholders; Vice-Chair. Middlesex Hospital. *Address:* San Rebassa, Moscari, Mallorca.

LAUBACH, Gerald D., PH.D.; American chemical industry executive; b. 21 Jan. 1926, Bethlehem, Pa.; m. Winifred Isabelle Taylor; one s. two d.; ed. Newark High School, Delaware, Univ. of Pennsylvania and Massachusetts Institute of Technology; Research fellow M.I.T. 1950; joined Pfizer as research chemist 1950; Research Supervisor 1953-58, Man. Medicinal Products Research 1958-61, Dir. Dept. of Medicinal Chem. 1961-63, Group Dir. Medicinal Research 1963-64, Vice-Pres. Medicinal Products Research 1964-69, mem. board of dir. 1968-; Pres. Pfizer Pharmaceuticals 1969-71; Exec. Vice-Pres. Pfizer Inc. 1971-72, Pres. 1972-. Dir. Loctite Corpn., Conn. Gen. Insurance Co., Pharmaceutical Mfrs. Assn.; Trustee, Conn. Coll.; mem. American Assn. for Advancement of Science, American Chemical Soc., American Management Assn., New York Acad. of Sciences, Soc. of Chemical Industry and other professional and civic associations. *Address:* Pfizer Inc., 235 East 42nd Street, New York, N.Y. 10017 (Office); Blood Street, Lyme, Conn., U.S.A. (Home). *Telephone:* 212-573-2513.

LAUCKE, Sir Condor Louis, K.C.M.G.; Australian politician; b. 9 Nov. 1914, Greenock, S.A.; m. Rose Hambour 1942; one s. one d.; ed. Immanuel Coll., Adelaide, South Australian School of Mines; elected to S.A. House of Assembly for Barossa 1956, 1959, 1962; mem. Australian Senate for S.A. 1967-; Deputy Chair. of Senate Select Cttee. [illegible] Air Pollution 1968-69; leader Del. to IPU Conf., New Delhi 1969; [illegible] Select Cttee. on Off-Shore Petroleum Resources 1969-71; Chair. Standing Cttee. on the Social Environment 1971-73; mem. Fed. Parl. Exec. of Liberal Party 1972-74; mem. Standing Cttee. on Finance and Govt. Operations 1974-75, Estimates Cttee. C. (Media, Educ., Tourism, Recreation) 1974-75; Pres. of Australian Senate 1976-; Joint Pres. of Australian Group of IPU, of Australian Branch of Commonwealth Parl. Assn. *Address:* Australian Senate, Canberra, A.C.T.; Bunawunda, Greenock, S.A., Australia. (Home).

LAUFBERGER, Vilém, DR.SC.; Czechoslovak doctor and physiologist; b. 29 Aug. 1890, Turnov.; fmr. Prof. of Physiology Charles Univ., Prague; Academician 1952-; Vice-Pres. Czechoslovak Acad. of Sciences 1952-61; Dir. Lab. of Graphical Diagnostics 1952-; experiments transforming the larva of axolotl into an adult animal 1913, explanation of the mechanism of insulin effects 1924, discovering ferritine and preparing it in crystalline form 1937; Laureate of the State Prize 1954; Order of the Repub. 1955; Medal of J. E. Purkyně 1956; Polonia Restituta Order 1957; Gold Plaque, Czechoslovak Acad. of Sciences 1962; Hon. Gold Plaque of J. E. Purkyně 1970; Purkyně Prize 1974. *Publications:* Hidden Facets of Life 1962, Spatiocardiography 1964. *Address:* Vostrovská 12, Prague 6, Czechoslovakia.

LAUGERUD GARCIA, Gen. Kjell Eugenio; Guatemalan army officer and politician; b. 24 Jan. 1930; Minister of Defence, Chief of Gen. Staff of Army 1970-74; Presidential Cand. of Movimiento de Liberación Nacional/Partido Institucional Democrático MLN/PID March 1974; Pres. of Guatemala July 1974-78. *Address:* Oficina del Presidente, Guatemala City, Guatemala.

LAUNOIT, Comte Paul de; Belgian industrialist; b. 15 Nov. 1891; ed. Ecole des Hautes Etudes Commerciales et Consulaires, Liège; Hon. Pres. BRUFINA (Société de Bruxelles pour la Finance et l'Industrie), Société Cockerill-Ougrée; Pres. Société Minière et Métallurgique de Rodange, Société Belge de l'Azote et des Produits Chimiques du Marly, Electrobel; Commr.-Gen. Liège Water Exhbn. 1939; Pres. Chapelle Musicale de la Reine Elisabeth; Pres. Concours Musical Int. Reine Elisabeth de Belgique; honours from Belgium, France, Morocco, the Netherlands, Libya, Luxembourg, Sweden, Italy, Austria and Greece. *Address:* 19 Avenue Franklin Roosevelt, Brussels 5, Belgium.

LAURA, Ernesto Guido; Italian film festival director; b. 4 May 1932, Villafranca, Veronese; s. of the late Manuel Laura and of Pia Romei Laura; [illegible] Anna Maria Vercellotti 1958; two s.; ed. Dept. of Law, Catholic Univ., Milan; Co-Nat. Sec. Centri Universitari Cine-

matografici 1953-54; Admin. Nat. Sec. Federazione Italiana Circoli del Cinema 1954-55; Chief Editor Bianco e Nero 1956-58, Filmlexicon 1968; Film Critic, Il Veltro 1958-; mem. Editorial Board Rivista del Cinematografo 1967-; Pres. Immagine, Centro Studi Iconografici 1968-; Dir. Venice Film Festival 1969-; has directed various film documentaries including Diario di Una Dama Veneziana 1958, Riscoperta di un Maestro 1960, Alla Ricera di Franz Kafka 1964, Spielberg 1964, Don Minzoni (Special Award) 1967. *Publications:* Il Film Cecoslovacca 1960, La Censura Cinematografica 1961, Ladri di Biciclette 1969. *Address:* 285 Via Conca d'oro, 00141 Rome, Italy.

LAURÉ, Maurice, D. EN D.; French banker and Inspector of Finances; b. 24 Nov. 1917, Marrakesh, Morocco; s. of Prosper Lauré and Marie-Thérèse Delpech; m. Marie-Claude Girard 1955; three s.; ed. Ecole Polytechnique and Paris Univ.; Transmissions Officer, French Army 1938-41; Telecommunications Engineer 1941-45; Insp. of Finances 1945-49; Deputy Dir. of Taxes 1949-55; Govt. Commissioner, Banque d'Etat du Maroc 1955-58; Dir. of Financial Services and programmes, Ministry of Armed Forces 1958-60; Dir. Crédit National 1960-67; Dir.-Gen. Société Générale S.A. 1967-72, Chair. 1973-; Commdr. Légion d'honneur, Médaille des Evadés, Commdr. Lion of Finland, Commandeur de l'Ordre national de la Cote d'Ivoire. *Publications:* L'Exposé de Concours 1952, La Taxe sur la Valeur Ajoutée 1953, Révolution, Dernière Chance de la France 1953, Traité de Politique Fiscale 1956, Au Secours de la TVA 1957. *Leisure interest:* yachting. *Address:* Société Générale, 29 Boulevard Haussmann, 75009 Paris (Office); 26 Boulevard de la Saussaye, 92200 Neuilly-sur-Seine, France (Home).

LAURENT, Jacques; French author and journalist; b. 5 Jan. 1919, Paris; s. of Jean Laurent-Cely and Louise Deloncle; divorced; ed. Lycées Condorcet, Carnot and Charlemagne, Paris and Faculté des Lettres, Paris; f. Literary review La Parisienne 1953; Pres. Dir.-Gen. Arts (weekly magazine) 1954-59; has written screenplay for several films; Prix Goncourt for Les Bêtises 1971. *Publications:* under pseudonym Cecil Saint-Laurent: Caroline chérie, Le fils de Caroline chérie, Lucrèce Borgia, Prénom Clotilde, Ici Clotilde, Les passagers pour Alger, Les agités d'Alger, Hortense 1914-18, A Simon l'honneur, L'histoire imprévue des dessous féminins, La Communarde, Demandez-moi n'importe quoi 1973, La Bourgeoise 1974; as Jacques Laurent: Les corps tranquilles, Paul et Jean-Paul, Le petit canard, Mauriac sous de Gaulle 1964, Année 1940, Lettre ouverte aux étudiants, Les Bêtises 1971, Dix perles de culture 1972, Histoire Egoïste 1976. *Leisure interest:* painting. *Address:* Presses de la Cité, 8 rue Garancière, Paris 6e; c/o Gérard Lebovici, 37 Rue Marbeuf, Paris 8e; also c/o Editions Grasset, 61 rue des Saints-Pères, Paris 6e, France.

LAURENT, Jacques Charles Henri; French industrialist; b. 11 March 1896; ed. Ecole des Sciences Politiques, Paris; Dir. Colonial Co. of the Ivory Coast 1927, Pres. Cultural Co. of Ivory Coast 1940-66; Dir. Cie. Delmas-Vieljeux 1935; mem. Gen. Council Bank of France 1939, Dir.-Gen. 1942-66; Dir. Union Maritime et Financière, Société de Combustibles Delmas-Vieljeux 1943-71; Légion d'honneur, Croix de guerre 1914-18 and 1939-40, Polish Croix de guerre. *Address:* 7 rue de Talleyrand, 75007 Paris, France.

LAURICELLA, Salvatore; Italian politician; b. 18 May 1922, Ravanusa; m.; two s.; mem. Italian Socialist Party; fmr. Sec. Camera del Lavoro, Ravanusa; fmr. mem. of Secr. of Agrigento branch of Confederazione Generale Italiana del Lavoro (CGIL); mem. Regional Secr. of Italian Socialist Party 1954, Sec. Regional Ctte. 1959; mem. Cen. Cttee. of Italian Socialist Party; mem. Chamber of Deputies 1963-; Minister without Portfolio (with responsibility for Scientific and Technical Research) 1968-69; Minister of Public Works 1970-72, 1973-74. *Address:* Camera dei Diputati, 00100 Rome, Italy.

LAURILA, Erkki Aukustl, PH.D.; Finnish physicist; b. 20 Aug. 1913; ed. Helsinki Univ.; Asst. Inst. of Physics, Univ. of Helsinki 1936-40; Head, Valmet instruments factory, Tampere 1942-46; Mil. Service 1939-40, 1941-42 (Capt.); Prof. of Technical Physics, Finnish Inst. of Technology 1945-63; mem. Finnish Acad. 1963-; Chair. Finnish Atomic Energy Comm. 1958-77; Wihuri Foundation Prize 1952, Kordelin Foundation Prize 1960. *Publications:* Two textbooks, scientific papers. *Address:* Mantytie 17 b 20, Helsinki, Finland.

LAURITZEN, Lauritz, D.IUR.; German lawyer and politician; b. 20 Jan. 1910, Kiel; three s. one d.; ed. Albert-Ludwigs-Univ. Freiburg and Christian-Albrechts-Univ. Kiel; Lawyer and later Head of Dept. of Commercial Org., Berlin 1937; Magistrate in Berlin after Second World War; Head of Presidential Office to Pres. of Schleswig-Holstein; Prov. Dir., Ministry of Interior, Schleswig-Holstein 1946-50, in partial retirement 1950-51; Head of Dept., Lower Saxony Ministry of Interior 1951-54; Mayor of Kassel 1954-63; Minister of Justice and Fed. Affairs, Hesse 1963-66; Fed. Minister of Housing and Reconstruction 1966-72, of Transport 1972-74; Social Democrat. *Address:* 5340 Bad Honnef, Im Gier 20, Federal Republic of Germany. *Telephone:* 5552 (Home).

LAUTI, Toalipi; Tuvalu politician; Chief Minister of Tuvalu 1975-78, Prime Minister Oct. 1978-. *Address:* Office of the Prime Minister, Funafuti, Tuvalu.

LAVAL, Jean-Baptiste; French physicist; b. 31 Jan. 1900, St. Pardoux-le-Vieux (Corrèze); Prof. Collège de France; work on the physics of X-rays etc.; Hon. Prof. Coll. de France 1971-; mem. Académie des Sciences; Officier Légion d'honneur. *Address:* 82 boulevard Saint-Michel, Paris 6e, France.

LAVER, Rod(ney) George, M.B.E.; Australian tennis player; b. 9 Aug. 1938, Rockhampton, Queensland; s. of R. S. Laver; m. Mary Benson 1966; one s.; ed. Rockhampton Grammar School and High School; Professional player since 1963; Australian Champion 1960, 1962, 1969; Wimbledon Champion 1961, 1962, 1968, 1969; U.S.A. Champion 1962, 1969; French Champion 1962, 1969; first player to win double Grand Slam 1962, 1969; first player to win over U.S. $1 million in total prize money 1972; played Davis Cup for Australia 1958, 1959, 1960, 1961, 1962 and 1973 (first open Davis Cup). *Publications:* How to Play Winning Tennis 1964, Education of a Tennis Player 1971. *Leisure interests:* golf, fishing, skiing. *Address:* 4501 Camden Drive, Corona del Mar. Calif. 92625; International Management Group, 1 Erieven Plaza, Cleveland, Ohio, U.S.A.

LAVES, Fritz H.; German mineralogist and crystallographer; b. 27 Feb. 1906, Hanover; s. of George Laves and Margaret (Laves) Hoppe; m. Melitta Druckenmueller 1938; three d.; ed. Univs. of Innsbruck, Göttingen and Zürich; Asst. Univ. of Göttingen 1930-43; Prof., Univ. of Halle 1943-48, Univ. of Chicago 1948-54, Univ. of Zürich and in ETH, Zürich 1954-; Dir. of Inst. for Crystallography and Petrography, ETH 1954-; Dr.h.c. (Bochum); Roebling Medal of M.S.A., U.S.A. 1969, Werner Medal of Deutsche Mineralogische Gesellschaft 1971. *Publications:* Works in crystal chemistry of metallic compounds 1930-, and silicates 1948-. *Leisure interest:* music. *Address:* Institute of Crystallography and Petrography, Eidgenössische Technische Hochschule, Sonneggstrasse 5, Zürich, Switzerland. *Telephone:* 326211.

LAVILLA ALSINA, Landelino; Spanish lawyer and government official; b. 1927, Lérida; ed. Univ. Complutense, Inst. Social León XIII; fmr. Tech. Adviser to Nat. Board of Railways and Road Transport, also Asst. to Tech. Secretariat of Prime Minister's Office; fmr. Under-Sec. for Industry; Chair. of Board, EDICA 1975-76; Minister of Justice 1976-79; mem. Council of State, Spanish Assen. for Admin. Sciences, Grupo Tácito. *Address:* c/o Ministerio de Justicia, San Bernardo 1945-47, Madrid, Spain.

LAVOIE, Léo; Canadian banker; b. 18 March 1913, Notre-Dame-du-Lac, P.Q.; s. of Late Phydime Lavoie and Caroline Viel; m. Claire Maranda 1940; one d.; ed. St. François Xavier Coll., Rivière du Loup and Harvard Univ.; joined Provincial Bank of Canada 1930, Man. at Warwick, P.Q., and other branches 1940-55, Asst. to Pres. 1955, Asst. Gen. Man. 1955, Gen. Man. 1957, Dir. 1960, Vice-Pres. and Gen. Man. 1966, Pres. 1967-76, Chief Exec. Officer 1967-77, Chair. Nov. 1974-; Chair. Canadair Ltd., Ciné-Monde Inc.; Dir. of several corpns., social and cultural orgs. *Leisure interests:* travel, golf. *Address:* Provincial Bank of Canada, 221 James Street West, Montreal, P.Q., H2Y 1M7, Canada (Office). *Telephone:* 281-3321 (Office).

LAVRENKO, Yevgeniy Mikhailovich, DR.SC.; Soviet geobotanist; b. 23 Feb. 1900, Chuguev, Kharkov Region, Ukraine; ed. Kharkov State Univ. and Kharkov Inst. of Popular Education; Research worker, Kharkov Inst. of Nature Protection 1926-29, Ukrainian Research Inst. of Agro-Soil Science 1930-33; Instructor, Kharkov Univ. 1933-34, Prof. 1939-; Head Dept., Komarov Botanic Inst. U.S.S.R. Acad. of Sciences 1934-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-48, Academician 1968-; Pres. All-Union Botanical Soc. 1963-73, Chief Editor The Botanical Journal; Komarov Prize 1950, 1963; Order of Lenin (twice) and other decorations. *Publications:* Scientific works in the field of botanical geography and cartography, phytozynology, flora and vegetation history. *Address:* The Komarov Botanical Institute, Leningrad, U.S.S.R.

LAVRENTIEV, Mikhail Alekseyevich; Soviet mathematician; b. 19 Nov. 1900, Kazan: ed. Moscow Univ.; Prof. of Math., Moscow Univ. 1931-41; mem. U.S.S.R. Acad. of Sciences 1946-; Dir. Inst. of Math., Acad. of Sciences of the Ukraine Chair. Dept. Moscow State Univ. 1948-53; Dir. Inst. of Precise Mechanisms and Computing Technique, Acad. of Sciences of the U.S.S.R. 1950-53; Sec. Academician Dept. of Physico-Mathematical Sciences, Acad.

of Sciences of the U.S.S.R. 1951-53, 1955-57; Vice-Pres. and Chair. of Council of Siberian Dept. U.S.S.R. Acad. of Sciences 1957-; Dir. Inst. of Hydro-dynamics, Siberian Dept. of the U.S.S.R. Acad. of Sciences 1957-; Deputy to U.S.S.R. Supreme Soviet 1958-; mem. Comm. for Public Education, Science and Culture, Soviet Nationalities; mem. CPSU 1952, cand. mem. CPSU Cen. Cttee. 1961-76; Vice-Pres. Int. Math. Union 1966-70; Foreign mem. Acads. of Sciences: Czechoslovak 1966, Bulgarian, G.D.R. 1969, Polish 1970, Leopoldina (G.D.R.) 1971, French 1971; Corresp. mem. of Int. Acad. of Astronautics 1968; Lenin Prize 1958, U.S.S.R. State Prize 1946, 1949, Hero of Socialist Labour 1967; Order of Lenin (five times), Red Banner of Labour (thrice), October Revolution, Lomonosov Gold Medal 1978. *Publications include:* Fundamental Theorem of the Theory of Quasi-Conformal Depictions of Plane Areas 1948, On Theory of Conformal Depictions 1937, On Some Properties of Single Leaf Functions Applied to Theory of Jets 1948, Course of Variational Calculations 1938, Problems of Mechanics of Continuous Media 1961, Methods of Calculations of Rail Chains by Electronic Computers 1963. *Address:* Akademgorodok, Novosibirsk, U.S.S.R.

LAVRUSHIN, Vladimir, D.SC.; Soviet chemist; b. 15 May 1912; ed. Kharkov State Univ.; worked in shoe factory 1927-30; Kharkov State Univ. 1930-35; postgraduate course 1935; Army Service 1941-45; research and educ. work, Kharkov 1945-48; Prof. of Chemical Tech., later Organic Chem., Kharkov State Univ. 1948-, Asst. Rector 1956-61, Rector 1961-66, Dir. Inst. of Chem. 1967-; Hon. D.Sc. (Manchester); Order of Lenin, Order of Red Star. *Publications:* contributions to the study of the halochromism of organic compounds. *Address:* Kharkov A.M. Gorky State University, Ploshchad Dzerzhinskogo 4, Kharkov, U.S.S.R.

LAW, Admiral Sir Horace Rochfort, G.C.B., O.B.E., D.S.C.; British naval officer; b. 23 June 1911, Dublin, Ireland; s. of Samuel Horace Law and Mary Clay; m. Heather Valerie Coryton; two s. two d.; ed. Sherborne School; Capt., Royal Naval Coll., Dartmouth 1960; Flag Officer, Sea Training, Portland 1961; Flag Officer, Submarines 1963; Controller of the Navy 1965; C.-in-C. Naval Home Command 1970-72; Chair. R. & W. Hawthorn Leslie 1973, Hawthorn Leslie Engi- 1977; Pres. Royal Inst. of Naval Architects 1975-77. *Leisure interests:* sailing, gardening. *Address:* West Harting, near Petersfield, Hants., England.

LAW, Phillip Garth, A.O., C.B.E., M.SC., D.APP.SC., D.Ed., F.T.S., F.A.A., F.A.I.P., F.R.G.S.; Australian scientist, antarctic explorer and educationist; b. 21 April 1912, Tallangatta, Victoria; s. of the late Arthur James Law and Lillie Law; m. Nel Allan 1941; ed. Ballarat Teachers' Coll. and Univ. of Melbourne; Science master in secondary schools 1933-38; Tutor in Physics Newman Coll., Melbourne Univ. 1940-47 and Lecturer in Physics 1943-47; Research Physicist and Asst. Sec. Scientific Instrument and Optical Panel, Ministry of Munitions 1940-45; Scientific Mission to New Guinea battle areas for the Australian Army 1944; Senior Scientific Officer Australian Nat. Antarctic Research Expeditions 1947-48, Leader 1949-66; Dir. Antarctic Div., Dept. of External Affairs 1949-66; Australian Observer Norwegian-British-Swedish Antarctic Expedition 1950; led expeditions to establ. first perm. Australian research station at Mawson, MacRobertson Land 1954 and at Davis, Princess Elizabeth Land 1957; exploration of coast of Australian Antarctica 1954-66; mem. gov. council Melbourne Univ. 1959-79, La Trobe Univ. 1964-74; Vice-Pres. Victoria Inst. of Colls. 1966-77; Chair. Australian Nat. Cttee. on Antarctic Research 1966-; mem. Council of Science Museum of Victoria 1968-; Pres. Royal Soc. of Victoria 1967, 1968; Pres. Graduate Union, Univ. of Melbourne 1972-77; Pres. Victorian Inst. of Marine Sciences 1978-; Hon. Fellow Royal Melbourne Inst. of Tech.; Award of Merit Commonwealth Professional Officers Assoc. 1957, Clive Lord Memorial Medal Royal Soc. of Tasmania 1958, Founder's Medal Royal Geographical Soc. 1960, John Lewis Gold Medal Royal Geographical Soc. of Australia 1962, Vocational Service Award Melbourne Rotary Club 1970. *Publications:* ANARE (with Bechervaise) 1957, also numerous articles on antarctic exploration and research and papers on cosmic rays, thermal conductivity, optics and education. *Leisure interests:* music, tennis, skiing, swimming. *Address:* 16 Stanley Grove, Canterbury 3126, Victoria, Australia. *Telephone:* 82-5575.

LAWRENCE, Arnold Walter, M.A., F.S.A.; British archaeologist; b. 2 May 1900; ed. City of Oxford School, and New Coll., Oxford; Ur excavations 1923; Craven Fellow, Oxford 1924; Student of British Schools of Rome and Athens; Reader in Classical Archaeology Cambridge 1930; Literary executor of T. E. Lawrence 1935; Mil. Intelligence Middle East 1940; Scientific Officer R.A.F. 1942; with Ministry of Econ. Warfare 1943; Prof. of Classical Archaeology Cambridge Univ. 1944-51; Fellow of Jesus Coll. Cambridge 1944-51; Prof. of Archaeology, Univ. Coll. of Gold Coast and Dir. Nat. Museum of the Gold Coast 1951-57; Hon. Sec. and Conservator, Monuments and Relics Comm., Gold Coast 1952-57. *Publications:* Later Greek Sculpture and its Influence 1927, Classical Sculpture 1929, Herodotus annotated 1935, T. E. Lawrence by his Friends 1937, Greek Architecture 1957, 1967, 1974, Letters to T. E. Lawrence 1962, Trade Castles and Forts of West Africa 1963, Fortified Trade Posts 1969, Greek and Roman Sculpture 1972, The Armenia Kingdom of Cilician 1978 (with others), etc. *Address:* c/o Barclays Bank, 68 Lombard Street, London, E.C.3, England.

LAWRENCE, Henry Sherwood, M.D.; American physician and immunologist; b. 22 Sept. 1916, New York; s. of Victor J. and Agnes B. (Whalen) Lawrence; m. Dorothea H. Wetherbee 1943; two s. one d.; ed. New York Univ.; Instructor in Medicine, New York Univ. School of Medicine 1949-52, Asst. Prof. 1952-55, Assoc. Prof. 1955-61, Prof. of Medicine 61-; Head Infectious Disease and Immunology Div. 1959-; Co-Dir. New York Univ. Medical Services 1964-; Dir. Cancer Center 1974-78; Commonwealth Foundation Fellow, Univ. Coll., London 1959; mem. Nat. Acad. of Sciences; Hon. Fellow American Acad. of Allergy, Soc. Française d'Allergie, Royal Coll. Physicians and Surgeons (Glasgow); Harvey Soc. Lecturer 1972, Councillor 1974-77; Von Pirquet Award, American Coll. of Physicians Award, New York Acad. of Medicine Science Medal, American Acad. of Allergy Scientific Achievement Award, Infectious Diseases Soc. of America Bristol Award, Chapin Medal, City of Providence, Lila Gruber Award for Cancer Research, American Acad. of Dermatology, Dowling Lectureship Award. *Publications:* Cellular and Humoral Aspects of Hypersensitivity (Editor) 1959, Mediators of Cellular Immunity 1969, Cellular Immunology 1970; articles in professional journals. *Leisure interests:* landscape painting, medieval English history. *Address:* Department of Medicine, New York University School of Medicine, 550 First Avenue, New York, N.Y. 10016 (Office); 343 East 30th Street, New York, N.Y. 10016, U.S.A. (Home). *Telephone:* 312-679-3200 (Office); 212-684-0997 (Home).

LAWSON, Frederick Henry, D.C.L., F.B.A.; British university professor (retd.); b. 14 July 1897, Leeds; s. of Frederick Henry Lawson and Mary Louisa Austerberry; m. Elspeth Webster; one s. two d.; ed. Queen's Coll., Oxford, and Göttingen Univ.; served in Royal Artillery 1916-19; called to the Bar Gray's Inn 1923; Lecturer in Law, Univ. Coll., Oxford 1924-25; Junior Research Fellow, Merton Coll., Oxford 1925-30, Official Fellow and Tutor in Law 1930-48; All Souls Reader in Roman Law 1931-48; Temp. Prin. Ministry of Supply 1943-45; Prof. of Comparative Law, Univ. of Oxford and Fellow of Brasenose 1948-64; Sec.-Gen. Int. Assn. of Legal Science 1964-69; Part-time Lecturer in Law, Univ. of Lancaster 1964-72, Part-time Prof. of Law 1972-77; Maurice Frankel Prof. of Law, Univ. of Houston 1967-68; Joint Editor Journal of Comparative Legislation 1948-52; Int. and Comparative Law Quarterly 1952-55; Editor Journal of the Society of Public Teachers of Law 1955-62; Dr. h.c. (Louvain, Paris and Ghent, Dr.jur.h.c. (Frankfurt-am-Main), Hon. LL.D. (Glasgow, Lancaster). *Publications:* Cases in Constitutional Law (with Sir D. L. Keir) 1928, Negligence in the Civil Law 1950, The Rational Strength of English Law (Hamlyn Lectures) 1951; revisions of various works on Constitutional, Roman and French Law; contributions to Law and Government in Principle and Practice (Ed. J. L. Brierly), and 1950 edn. of Chambers Encyclopaedia; A Common Lawyer Looks at the Civil Law 1955, Introduction to the Law of Property 1958, The Oxford Law School 1850-1965 1968, The Roman Law Reader 1969, Remedies of English Law 1972, Selected Essays 1978. *Address:* 6 Thirsk Road, Stokesley, Middlesbrough, Cleveland, England. *Telephone:* Stokesley 710268.

LAWZI, Ahmed Abdel Kareem al-; Jordanian politician; b. 1925, Jubeiha, nr. Amman; m.; ed. Teachers' Training Coll., Baghdad, Iraq.; Teacher, 1950-53; Asst. to Chief of Royal Protocol 1953-56; Head of Ceremonies, Ministry of Foreign Affairs 1957; mem. Parl. 61-62, 62-63; Asst. to Chief of Royal Court 1963-64; Minister of State, Prime Minister's Office 1964-65; mem. Senate 1965, 1967; Minister of the Interior for Municipal and Rural Affairs April-Oct. 1967; Minister of Finance Oct. 1970- Nov. 1971; Prime Minister 1971-73; Pres. Nat. Consultative Council April 1978-; various Jordanian and foreign decorations. *Address:* National Consultative Council, Amman, Jordan.

LAXALT, Paul; American lawyer and politician; b. 2 Aug. 1922, Reno, Nevada; s. of Dominique and Theresa (Alpetche) Laxalt; m. 1st Jackalyn Ross 1946 (divorced 1972); m. 2nd Carol Wilson 1976; one s. five d. one step-d.; ed. High School, Carson City, and Univ. of Santa Clara, Calif.; served in infantry in Second World War; graduated from Denver Univ. School of Law 1949 and became attorney; joined Republican Party and was elected Dist. Attorney of Ormsby County 1950; Lieut.-Gov., Nevada 1962-67; Gov. of Nevada 1967-71; U.S. Senator from Nevada Jan. 1975-. *Leisure*

interests: tennis, golf. *Address:* U.S. Senate, Washington, D.C. 20510 (Office); 6660 Midhill Place, Falls Church, Va. 22043, U.S.A. (Home).

LAXNESS, Halldor; Icelandic writer; b. 23 April 1902; many of his novels have been translated into English, Nobel Prize for Literature 1955; Sonning Prize 1969. *Publications include:* The Great Weaver of Cashmere 1927, Salka Valka 1934, Independent People (epic) 1939, The Atom Station, Paradise Reclaimed, The Fish Can Sing, Independent People (play) 1972, etc.; translated into Icelandic Hemingway's Farewell to Arms, Voltaire's Candide, Gunna Gunnarsson's works, etc. *Address:* P.O. Box 664, Reykjavik, Iceland.

LAY, Herman Warden; American business executive; b. 3 June 1909, Charlotte, N.C.; m. Amelia Harper; one s. two d.; ed. Furman Univ., Greenville, S.C.; Independent food distributor 1932-39; Founder, Pres. and Chair. of Board, H. W. Lay & Co. Inc. 1939-61; Pres. Frito-Lay Inc. 1961-64, Chair. of Board 1964-65; Chair. of Board PepsiCo Inc. (following merger of Pepsi-Cola Co. and Frito-Lay Inc.) 1965-71, Chair. Exec. Cttee. May 1971-; Dir. of various banks, insurance cos. and industrial concerns, etc.; Hon. LL.D. (Drury Coll. and Furman Univ.). *Address:* PepsiCo Inc., Purchase, N.Y. 10577 and P.O. Box 35034, Dallas, Texas 75235; 4935 Radbrook Place, Dallas, Texas 75220, U.S.A. (Home).

LAYTON, Robert G., B.COM., F.C.A., F.C.W.A.; business executive; b. 16 May 1923; ed. Bromsgrove School, Univ. of London, Inst. of Chartered Accountants, England; Chartered Accountant, London and Birmingham 1939-47; Chief Accountant, Caracas Petroleum S.A., Caracas, Venezuela 1948; Controller, Van Reekum Paper Inc., New York 1948-50; Ford Motor Co., Finance Int. Division 1950-54; Dir. of Finance, Ford Mexico 1954-57; Dir. of Finance, Ford Germany 1957-63, Gen. Man. 1963-67, Vice-Pres. Sales, Ford Europe 1967-68; Vice-Pres. Ford U.S., Latin America 1968-69; mem. Management Board Dynamit Nobel A.G., Troisdorf 1970-73; Pres. Feldmühle A.G., Düsseldorf 1973-78; Commr. for Econ. Devt. in Berlin May 1978-; mem. Advisory Board, Friedrich Simon Bank KG, Düsseldorf, Gerling Konzern, Cologne. *Address:* Berlin Economic Development Corpn., Budapester Str. 1, 1000 Berlin 30, Federal Republic of Germany.

LÁZÁR, György; Hungarian economist and politician; b. 15 Sept. 1924, Isaszeg; began [illegible] technical draughtsman; mem. CP 1945-; joined Nat. Planning Office 1948, Chief Dept. Head 1953, Vice-Pres. 1958, Pres. 1973-75; Minister of Labour 1970-73; Deputy Prime Minister 1973-75, Prime Minister May 1975-; [illegible] HSWP Cen. Cttee., [illegible] Politburo 1975-, mem. Political Econ. Board attached to HSWP Cen. Cttee. 1975-. *Address:* Office of the Prime Minister, Parliament Building, Kossuth Lajos tér, Budapest, Hungary. *Telephone:* 123-500.

LĂZĂREANU, Alexandru; Romanian diplomatist; b. 18 Feb. 1913, Bucharest; s. of Barbu and Sara; m. Ana Lăzăreanu 1946; one s.; ed. Bucharest Faculty of Letters and Philosophy; Journalist 1931-46; Cultural and Press Counsellor, Washington 1946-48; Dir. Ministry of Foreign Affairs 1949-51; First Counsellor, Chargé d'affaires a.i., Paris 1951-53; Dir., [illegible] Collegium, Ministry of Foreign Affairs 1953-56; Deputy Minister, Ministry of Foreign Affairs 1956-61; Minister to U.K. also accred. to Iceland 1961-64, Amb. 1964-66; Dir. Ministry of Foreign Affairs 1966-68; Amb. to Belgium and Luxembourg 1968-78, also accred. to Upper Volta 1971-78; Order of Star of Repub., Order of Labour. *Leisure interests:* photography, chess. *Address:* c/o Ministry of Foreign Affairs, Bucharest, Romania.

LAZAREFF, Helène (see Gordon-Lazareff).

LAZARUS, Ralph; American businessman; b. 30 Jan. 1914, Columbus, Ohio; s. of Fred Lazarus, Jr. and Meta Marx Lazarus; m. Gladys Kleeman 1939; three s. one d. (deceased); ed. Dartmouth Coll.; Vice-Pres. F. & R. Lazarus & Co. 1947-51; Exec. Vice-Pres. Federated Department Stores, Cincinnati 1951-57, Pres. 1957-67, Chair. of Board 1967-; mem. Board of Dirs. Scott, Chase Manhattan, Gen. Electric Co.; mem. Board of Trustees Dartmouth Coll.; mem. Business Council, Business Roundtable. *Leisure interest:* music. *Address:* 222 West 7th Street, Cincinnati, Ohio, 45202 (Office); 1009 Catawba Valley Drive, Cincinnati, Ohio, 45226, U.S.A. (Home). *Telephone:* 513-852-3920 (Office).

LAZELL, Henry George Leslie; British business executive; b. 23 May 1903; ed. L.C.C. Elementary School; Clerk until 1930; Accountant, Macleans Ltd. 1930, Sec. 1930, Dir. and Sec. 1936, Man. Dir. 1940, Sec. Beecham Group Ltd. 1939, Dir. 1940, Man. Dir. 1951-58; Chair. 1958-68, Pres. 1968-70, Hon. Pres. 1970-; Dir. Imperial Chemical Industries Ltd. 1966-68; Chair. Govs. Ashridge Management Coll. 1963; Pres. of the Appeal, British Heart Foundation. *Publication:* From Pills to Penicillin: The Beecham Story. *Address:* A5 Cove Apartments, Mill Shares Road, Pembroke 5-56, Bermuda.

LE DUAN; Vietnamese politician; b. 1908, Quang Tri Province, Central Viet-Nam; Sec. with local railways, Hanoi; imprisoned for political activity 1931, released 1936, and again 1940, released 1945 when Viet-Minh came to power; active [illegible] CP of Indochina; prominent in Viet-Minh resistance 1946; Commr. Mil. Headquarters, S. Viet-Nam 1952, Sec. Lao Dong Cen. Cttee. for Southern Region 1956, Sec.-Gen. Lao Dong Party 1959, First Sec. 1959-1976; Sec.-Gen. CP of Viet-Nam Dec. 1976-; mem. Lao Dong Politburo, Cen. Cttee. and Secr. Dec. 1976, CP Politburo and Secr. Dec. 1976-, mem. Nat. Defence Council July 1976-; accompanied Ho Chi Minh on official visits; led dels. to 23rd Soviet Party Congress 1967, to Celebrations for 50th Anniversary of October Revolution 1967, to Centenary of Lenin's birth 1970; mem. Nat. Defence Council. *Publications:* major articles in Nhan Dan (party organ). *Address:* Politburo, Dang Cong San Viet-Nam, 1c Bd. Hoang Van Thu, Hanoi, Viet-Nam.

LE DUC THO; Vietnamese politician; b. (as Phan Dinh Khai) 14 Oct. 1911, N. Viet-Nam; founder mem. CP of Indochina 1930; imprisoned, escaped to China 1940; founder [illegible] Viet-Minh, returned to Hanoi 1945; Viet-Minh Del. for S. Viet-Nam 1949; Sec.-Gen. Viet-Minh Exec. Cttee., S. Viet-Nam, then mem. Cen. Cttee. Lao Dong Party; mem. Politburo, Lao Dong Party 1955-76, Dir. Party Training School 1959; mem. Lao Dong Secr. 1960-76; mem. Politburo, CP of Viet-Nam Dec. 1976-; mem. Secr. Dec. 1976-; Special Adviser to N. Vietnamese Del. at Paris peace talks 1968-72; led Dels. to U.S.S.R. 1961, France 1965, 1970, German Democratic Repub. 1971, has attended several Communist Party congresses abroad; declined Nobel Peace Prize 1973. *Address:* Politburo, Dang Cong San Viet-Nam, 1c Bd. Hoang Van Thu, Hanoi, Viet-Nam.

LE THANH NGHI; Vietnamese politician; Deputy Premier of Democratic Repub. of Viet-Nam 1974-76; Chair. State Planning Comm. April 1974-; mem. Nat. Defence Council, Socialist Repub. of Viet-Nam July 1976-; Deputy Premier, Socialist Repub. of Viet-Nam July 1976-; mem. Politburo and Secretariat of CP of Viet-Nam. *Address:* Council of Ministers, Hanoi, Viet-Nam.

LE VAN LUONG; Vietnamese politician; b. 1910, North Viet-Nam; mem. Politburo, Lao Dong party 1951-56; assoc. with Truong Chinh (*q.v.*); mem. Secr. and Politburo, CP of Viet-Nam Dec. 1976-. *Address:* Central Committee of the Communist Party of Viet-Nam, No. 1-C rue Hoang Van Thu, Hanoi, Viet-Nam.

LEACH, Sir Edmund Ronald, Kt., PH.D., F.B.A.; British social anthropologist; b. 7 Nov. 1910, Sidmouth; s. of William Edmund and Mildred Mary Leach (née Brierley); m. Celia Joyce Buckmaster 1940; one s. one d.; ed. Marlborough Coll., Clare Coll., Cambridge, and London School of Economics; Commercial Asst., Butterfield and Swire, Shanghai 1932-37; Graduate Student, L.S.E. 1938-39, 1946-47; Mil. Service, Burma Army 1939-45; Lecturer (later Reader) in Social Anthropology, L.S.E. 1947-53; Lecturer, Cambridge Univ. 1953-57, Univ. Reader in Social Anthropology 1957-72, Prof. 1972-78; Fellow of King's Coll., Cambridge 1960-66, 1979-, Provost 1966-79; Fellow of Center for Advanced Study in Behavioral Sciences, Stanford 1961; Senior Fellow, Eton Coll. 1966-79; Hon. Fellow, L.S.E. 1973, S.O.A.S. 1974; Malinowski Lecturer 1959; Munro Lecturer 1963, 1977; Henry Myers Lecturer 1966; BBC Reith Lecturer 1967; Lewis Henry Morgan Lecturer, Univ. of Rochester 1975; John Hinkley Prof. and Memorial Lecturer, Johns Hopkins Univ. 1976; Sophie Davis Fellow, Brandeis Univ. 1976; Radcliffe-Brown Memorial Lecturer, British Acad. 1976; Marett Lecturer 1977; Aubrey Lewis Lecturer 1977; Field Research Formosa 1937, Kurdistan 1938, Burma 1939-45, Borneo 1947, Ceylon 1954-56; Vice-Pres. Royal Anthropological Inst. 1964-66, 1968-70, Pres. 1971-75; Chair. Assen. of Social Anthropologists 1966-70; Pres. British Humanist Assen. 1970-72; Trustee, British Museum 1975-; Foreign Hon. [illegible] American Acad. of Arts and Sciences 1968; Hon. D. H. L. (Chicago and Brandeis); Curl Essay Prize 1951, 1957, Rivers Medal 1958, R.S.A. Silver Medal 1973. *Publications:* Social and Economic Organization of the Rowanduz Kurds 1940, Social Science Research in Sarawak 1950, Political Systems of Highland Burma 1954, Pul Eliya: A Village in Ceylon 1961, Rethinking Anthropology 1961, A Runaway World? 1968, Lévi-Strauss 1970, Genesis [illegible] Myth 1970, Culture and Communication 1976. *Leisure interest:* skiing. *Address:* The Birk, 11 West Green, Barrington, Cambridge, CB2 5RZ. *Telephone:* (0223) 870675.

LEACH, Sir Ronald George, Kt., G.B.E., F.C.A.; British chartered accountant; b. 21 Aug. 1907, London; s. of William T. Leach; m. Margaret A. Binns 1953; one s. one d.; ed. Alleyn's School, Dulwich;

Deputy Financial Sec. Ministry of Food 1939-46; Senior Partner, Peat, Marwick, Mitchell and Co. (Chartered Accountants) 1966-77; Pres. Inst. of Chartered Accountants in England and Wales 1969-70; chair. Accounting Standards Cttee. 1970-76; mem. Cttee. on Coastal Flooding 1953, Inquiry into Shipping 1967-70; Chair. Con- Cttee. for Great Britain 1958-67, Board of Trade Cos. Act Accountancy Advisory Cttee. 1969-; Board of Trade Insp. into the affairs of Pergamon Press 1969; Dir. Hutchinson Ltd., Samuel Montagu and Co. Ltd., Banque Nat. de Paris Ltd.; Nat. Theatre Board 1971, Council of Oxford Centre in Man. Studies; Hon. LL.D. 1977. *Leisure interest:* farming. *Address:* Samuel Montagu and Co. Ltd., 114 Old Broad Street, London, EC2P 2HY (Office); 37-39 Lowndes Street, Carlton Lodge, London, S.W.1 (Home); also Waterlane Farm, Headcorn, Kent, England. *Telephone:* 01-235 8670 and 0622-890-249 (Homes).

LEAF, Alexander, M.D.; American physician; b. 10 April 1920, Yokohama, Japan; s. of Dr. Aaron L. and Dora Hural Leaf; m. Barbara L. Kincaid 1943; three d.; ed. Univs. of Washington and Michigan; Intern, Mass. Gen. Hosp. 1943-44, mem. staff 1949-, Physician-in-Chief 1966-; Resident, Mayo Foundation, Rochester, Minn. 1944-45; Research Fellow, Univ. of Mich. 1947-49; mem. Faculty, Medical School, Harvard Univ. 1949-, Jackson Prof. of Clinical Medicine 1966-; Visiting Fellow, Balliol Coll., Oxford 1971-72; mem. Nat. Acad. of Sciences, American Assen. for Advancement of Science, American Acad. of Arts and Sciences, American Coll. of Physicians, The Biochemical Soc. (U.K.), Inst. of Medicine 1978 etc. *Publications:* 158 articles in professional journals; Significance of the Body Fluids in Clinical Medicine, Youth in Old Age, Renal Pathophysiology. *Leisure interests:* music (flautist), jogging. *Address:* Medical Services, Massachusetts General Hospital, Boston, Mass. 02114 (Office); One Curtis Circle, Winchester, Mass. 01890, U.S.A. (Home). *Telephone:* 617-726 2862 (Office); 617-729-5852.

LEAHY, Patrick Joseph, J.D.; American lawyer and politician, b. 31 March, 1940, Montpelier, Vt.; s. of Howard and Alba (Zambon) Leahy; m. Marcelle Pomerleau 1962; two s. one d.; ed. St. Michael's Coll., Winooski, Vt., and Georgetown Univ. Law Center, Washington, D.C.; admitted to practise law, State of Vermont 1964, U.S. Supreme Court, Second Circuit Court of Appeals, New York, U.S. Fed. Dist. Court of Vt.; Senator from Vermont 1975-; mem. Vt. Bar Assen. 1964-; Vice-Pres. Nat. Dist. Attorney's Assen.; Distinguished Service Award of Nat. Dist. Attorneys' Assen. 1974. *Leisure interests:* photography, reading, hiking, cross country skiing. *Address:* 232 Russell Senate Office Building, Washington, D.C. 20510 (Office); 31 Green Acres Drive, Burlington, Vt., U.S.A. (Home).

LEAKEY, Mary Douglas, F.B.A.; British archaeologist; b. 6 Feb. 1913, London; d. of Erskine Edward Nicol and Cecilia Marion Frere; m. Louis Seymour Bazett Leakey 1936 (died 1972); three s. (Richard Leakey, *q.v.*); ed. privately; Dir. of Research, Olduvai Gorge Excavations, Tanzania 1960-, Hon. D.Sc. (Witwatersrand) 1968, Hon. D.Soc.Sc. (Yale); Prestwych Medal, Geological Soc. of London (jointly with L. S. B. Leakey), Gold Medal of Soc. of Women Geographers, Hubbard Medal of Nat. Geographical Soc. (jointly with L. S. B. Leakey). *Publications:* Olduvai Gorge, Vol. III 1971, contributor to Background to Evolution in Africa, After the Australopithecines; various scientific papers in Nature. *Leisure interests:* game watching, reading. *Address:* c/o National Museum, P.O. Box 30239, Nairobi, Kenya.

LEAKEY, Richard Erskine Frere, F.R.A.I.; Kenyan palaeontologist; b. 19 Dec. 1944, Nairobi; s. of the late Louis Leakey and of Mary Leakey (*q.v.*); m. Meave Gilliam Epps 1971; three d.; ed. the Duke of York School, Nairobi; leader of expeditions to West Natron, Tanzania 1963, 1964, Baringo, Kenya 1966, Omo River, Ethiopia 1967 and East Rudolf, Kenya 1968-70; researcher Origin of Man, Lake Turkana 1971-76; Admin. Dir. Nat. Museums of Kenya 1968-74, Dir. 1974-; Trustee, East African Wildlife Soc.; Chair. Wildlife Clubs of Kenya 1969-, Kenya Exploration Soc. 1969-72, Foundation for Research into Origin of Man (U.S.A.), Trustee Foundation for Social Habilitation; Franklin Burr Prize 1965, 1973. *Publications:* articles on finds in the field of palaeontology in scientific journals, including Nature, Journal of World History, Science, American Journal of Physics and Anthropology, etc.; contrib. to General History of Africa (vol. I), Perspective on Human Evolution, and Fossil Vertebrates of Africa; Origins (book, with Roger Lewin). *Address:* National Museums of Kenya, P.O. Box 40658, Nairobi (Office); P.O. Box 24926, Nairobi, Kenya (Home). *Telephone:* Nairobi 20141.

LEALOFI IV, Chief Tupua Tamasese; Samoan politician and doctor; b. 8 May 1922, Apia; m. Lita 1953; five c.; ed. Fiji School of Medicine and postgraduate studies at Suva; Medical practitioner 1945-69; succeeded to Paramount Chief (Tama-a-Aiga) of Tupua Tamasese 1965; mem. Council of Deputies 1968-69; Legis. Assembly 1970; Prime Minister of Western Samoa 1970-73, 1975-76; Minister of Internal and External Dist. Affairs, Labour and Audit, Police and Prisons 1975-76. *Leisure interests:* reading, golf. *Address:* Legislative Assembly, Apia, Western Samoa.

LEAN, David, C.B.E.; British film director; b. 25 March 1908; m. 1st Ann Todd 1949 (divorced 1957); 2nd Leila Matkar 1960 (divorced 1978); ed. Leighton Park School, Reading; entered industry with Gaumont-British as numberboard boy 1928; editor for Gaumont Sound News and British Movietone News; edited Escape Me Never, Pygmalion, 49th Parallel; co-directed with Noel Coward In Which We Serve 1942; directed This Happy Breed 1943, Blithe Spirit 1944, Brief Encounter 1945, Great Expectations 1946, Oliver Twist 1947, The Passionate Friends 1948, Madeleine 1949, The Sound Barrier 1952, Hobson's Choice 1953, Summer Madness (American title Summertime) 1955, The Bridge the River Kwai 1957, Lawrence of Arabia 1962, Dr. Zhivago 1965, Ryan's Daughter 1970; Officier de l'Ordre des Arts et des Lettres. *Address:* B.P. 2871, Papeete, Tahiti, French Polynesia.

LEAR, Evelyn, American soprano; b. Brooklyn, d. of Nina Quartin; m. Thomas Stewart (*q.v.*); ed. New York Univ., Hunter Coll., Juilliard Opera Workshop; Fulbright Scholarship for study in Germany 1955; joined Berlin Opera, debut in Ariadne auf Naxos 1957; debut in U.K. in Four Last Songs with London Symphony Orchestra 1957; debut at Metropolitan Opera in Mourning Becomes Electra 1967; debut at La Scala, Milan in Wozzeck 1971; regular performances with leading opera cos. and orchestras in Europe and U.S.A.; guest appearances with Berlin Opera and Vienna State Opera; soloist with the leading American orchestras, has given many recitals and orchestral concerts and operatic performances with Thomas Stewart; Concert Artists Guild Award 1955. *Major roles include:* Marie in Wozzeck, Marschallin in Der Rosenkavalier, Countess in The Marriage of Figaro, Fiordiligi in Cosí fan Tutti, Desdemona, Dido in The Trojans, Donna Elvira in Don Giovanni, Tatiana in Eugene Onegin, Lavinia in Mourning Becomes Electra, title role in Lulu; appeared in film Buffalo Bill 1976. *Address:* Columbia Artists Management Inc., 165 West 57th Street, New York, N.Y. 10019, U.S.A.

LEATHER, Sir Edwin Hartley Cameron, K.C.M.G., K.C.V.O.; British politician and administrator; b. 22 May 1919, Toronto, Canada; s. of Harold H. Leather, M.B.E., and Grace C. Leather; m. Sheila A. A. Greenlees 1940; two d.; ed. Trinity Coll. School, Royal Mil. Coll., Kingston, Canada; M.P. for N. Somerset 1950-64; Exec. Cttee. British Commonwealth Producers' Assen. 1960-63, British Caribbean Assen.; Chair. Horder Centres for Arthritics 1962-65, Nat. Union of Conservative and Unionist Assens. 1970-71; Canadian Rep. Exec. Cttee., British Commonwealth Ex-servicemen's League 1954-63; Chair. Bath Festivals Soc. 1960-65; Deputy Chair. Yehudi Menuhin School and Orchestra 1967-73; Gov. of Bermuda 1973-77; Chair. United World Colls. Cttee. of Bermuda, Menuhin Foundation of Bermuda; Dir. World Int. Insurance Co. of Bermuda 1977-, N. M. Rothschild (Bermuda), Reserve Assets Fund, Investors Collateral Exchange etc.; Hon. Fellow, Royal Soc. of Arts 1968; K.St.J. 1974; Hon. LL.D. (Bath) 1975; Nat. Inst. Social Sciences Gold Medal 1977. *Publications:* The Vienna Elephant, The Mozart Score. *Leisure interests:* music, travel, reading. *Address:* P.O. Box 819, Hamilton 5, Bermuda.

LEATHERS, 2nd Viscount; **Frederick Alan Leathers,** M.A., F.R.S.A.; British company director; b. 4 April 1908; m. Elspeth Stewart 1940; two s. two d.; ed. Brighton Coll., and Emmanuel Coll., Cambridge; mem. Baltic Exchange; fmr. underwriting mem. of Lloyd's, Gen. Cttee. of Lloyd's Register of Shipping; mem. Court Worshipful Co. of Shipwrights, Court Watermen's and Lightermen's Co.; Fellow, Inst. of Chartered Shipbrokers; mem. Inst. Petroleum; former Chair. Wm. Cory and Son Ltd., Cory Mann George Ltd., Hull Blyth and Co. Ltd., St. Denis Shipping Co. Ltd., Cory Ship Towage Ltd., Smit and Cory Int. Port Towage Ltd.; Nat. Westminster Bank Ltd., Outer London Regional Board; Fellow, Royal Philatelic Soc. *Address:* Huntsmore, Peperharow Lane, Shackleford, Godalming, Surrey, GU8 6AN, England.

LEBEDEV, Polikarp Ivanovich; Soviet art gallery director; b. 8 March 1904, Malaya Serdoba Village, Penza Region; ed. Moscow Univ.; CPSU 1924-; Head of Literature Dept., Izogiz (Fine Arts Publishing House) 1934-38; Deputy Dir. State Tretyakov Art Gallery, Moscow 1938-39, 1953-54, Dir. 1949-51, 1954-; Deputy Head of Dept., Cen. Cttee. of CPSU 1941-45, Head of Dept. 1945-48; Chair. Cttee. for Arts of U.S.S.R. 1948-51; Senior Scientific Editor Great Soviet Encyclopaedia 1951-53; Corresp. mem. U.S.S.R.

Acad. of Arts; Honoured Art Worker of U.S.S.R., Order of the Red Banner of Labour. *Address:* State Tretyakov Art Gallery, 9 Lavrushensky pereulok, Moscow, U.S.S.R.

LEBEDEV, Yevgeniy Alekseyevich; Soviet actor; b. 15 Jan. 1917; s. of Aleksey Mikhailovich Lebedev and Zinaida Ivanovna Lebedeva; m. Natalya Aleksandrovna Tovstonogova 1950; one s. one d.; ed. Moscow Theatre School; Tbilisi Russian Theatre for Youth 1940-49; Leningrad Theatre 1949-56; Leningrad Academic Bolshoi Drama Theatre 1956-; People's Artist of R.S.F.S.R. 1962, U.S.S.R. State Prize 1950, 1968, People's Artist of the U.S.S.R. 1968. *Main roles:* Mitya (Poverty is No Vice), Tikhon (Thunderstorm by A. N. Ostrovsky), Paval Korchagin (How the Steel Hardened by N. Ostrovsky), Monakhov (Barbarians by M. Gorky), Arturo Ui (Brecht), Bessemenov (Citizens by Gorky), Rogožin (The Idiot by Dostoyevsky), Poprishtshin (Madman's Diary by Gogol), Falstaff (Shakespeare), Shtshukaz (Sholokhov), Marmeladov (Crime and Punishment by Dostoyevsky), etc.; cinema roles: Mercy Train 1964, The Last Month of Autumn 1965, Under Fire there is no Ford 1967. *Leisure interest:* sculpture. *Address:* Leningrad Academic Bolshoi Drama Theatre, Petrovskaya ul. 4/2, Kv. 70, Leningrad 197046, U.S.S.R.

LEBEDEV, Yuriy Vladimirovich; Soviet diplomatist; b. 29 Sept. 1923, Orekhovo-Zuevo, Moscow Region; ed. Moscow State Inst. of Int. Relations; Soviet Army until 1946; entered diplomatic service 1962; Counsellor, then Counsellor-Envoy, Soviet Embassy, Cuba 1962-68; ranking official, Ministry of Foreign Affairs, U.S.S.R. 1968-69; Amb. to Peru 1969-77. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

LEBÈGUE, Raymond; French university professor and writer; b. 16 Sept. 1895, Paris; m. Yvonne Trinquet 1923; three s. one d.; ed. Lycée Louis-le-Grand and Univ. de Paris à la Sorbonne; teacher, Brest 1919, Clermont-Ferrand 1920-23; Prof. Univ. of Rennes 1923-42, Univ. of Paris 1942-65; mem. Institut de France 1955; Pres. Société d'Histoire Littéraire de la France and Soc. des Textes Français Modernes; Officier Légion d'honneur. *Publications:* Le mystère des actes des apôtres 1929, La tragédie religieuse en France 1929, Les correspondants de Peiresc dans les anciens Pays-Bas 1943, La tragédie française de la Renaissance 1944, Ronsard 1950, La poésie française de 1560 à 1630 1951, Le théâtre comique de Pathelin à Melite 1972, Etudes sur le théâtre-français 1977; Editor of Collections by Ronsard, Malherbe, Peiresc, R. Garnier, Chateaubriand and Stendhal. *Address:* 282 rue Saint-Jacques, 75005 Paris, France. *Telephone:* 326-47-59.

LEBEL, Claude, French diplomatist; b. 18 Feb. 1914, Paris; s. of Jacques Lebel and Marie-Germaine Delavigne; m. Claudie de Schoutheete de Tervarent; two s. two d.; ed. Lycée Pasteur, Neuilly-sur-Seine, Faculté de Droit de Paris, Ecole Libre des Sciences Politiques; entered Diplomatic service 1938; served Brussels 1938-39, Madrid 1941-42, Athens 1947-49, London 1944-55, Washington 1959-62; joined the Provisional French Govt. in Algiers 1943-44, served in Paris 1945-47, 1955-59, 1962-69; Amb. to Morocco 1970-74, to Switzerland 1975-; Officier Légion d'honneur, Commdr. Ordre national du Mérite, Croix de guerre. *Address:* French Embassy, 46 Schosshaldenstrasse, Berne (Office); 44 Sulgeneckstrasse, Berne, Switzerland (Residence); 11 *bis* Boulevard de Beauséjour, 75016 Paris, France (Home). *Telephone:* 43-24-24 (Office); 45-40-25 (Residence); 527-60-73 (Home).

LEBENSTEIN, Jan; Polish painter; b. 5 Jan. 1930, Warsaw; ed. Warsaw Acad. of Fine Arts; works include: Zwierzęta (The Animals), Pozegnanie (Leave-Taking), Przeciwstawienie (Opposition), Zwierzę zielone (The Green Animal), Bieg skamieniały (The Petrified Run), Przebudzenie (Awakening), Affection, Figura na przekątnych (The Figure on the Diagonals), Figura w błękitnej (The Figure in a Blue Frame) (all cycles); one-man exhbns.: Musée d'Art Moderne and Galerie Lambert, Paris 1961, Galerie Pauli, Lausanne 1963, Galerie Lacloche, Paris 1965, exhbn. of cycles Créatures abominables, Carnet intime, Figury osiowe (Axial Figures) Cologne 1965, Galerie Desbière, Paris 1970; Collections: Nat. Gallery, Warsaw, Poznań, Cracow, Musée d'Art Moderne, Paris, Municipal Museum, Amsterdam, Museum of Modern Art, New York, São Paulo, San Francisco, Nat. Gallery of Modern Art, Belgrade; S. Guggenheim Prize 1958, Grand Prix, Biennale of Youth, Paris. *Address:* Living in France.

LEBER, Georg; German trade unionist and politician; b. 7 Oct. 1920, Obertienfenbach; s. of Jakob Leber and Elizabeth (née Geis) Leber; m. Erna Maria Wilfing 1942; one s.; ed. primary and commercial schools in Limburg (Lahn); soldier 1939-45; joined trade union and Social Democrat Party (SPD) 1947; trade union leader, Limburg 1949; Chair. of local branch of SPD 1951; Editor Der Grundstein (trade union paper) 1952; mem. Man. Cttee. Bau-Steine-Erden Trade Union 1953-57, Chair. 1957; mem. Man. Cttee. Fed. of German Trade Unions 1957; mem. Man. Cttee. of Int. Federation of Building and Timber Workers and Pres. Joint Cttee. of Trade Unions of Building and Timber Trade in European Common Market 1957; mem. Bundestag 1957-; mem. European Parl. 1958-59; mem. Management Cttee. SPD Faction in Bundestag 1961-, mem. Party Management 1961-; Fed. Minister of Transport 1966-69, of Transport, Posts and Telecommunications 1969-72, of Defence 1972-78; Grosses Bundesverdienstkreuz mit Stern und Schulterband. *Address:* c/o Bundesministerium der Verteidigung, P.O. Box 1328, 5300 Bonn, Federal Republic of Germany.

LEBER, Lieut-Gen. Walter Philip; American army officer and govt. official; b. 12 Sept. 1918, St. Louis, Mo.; s. of Walter P. Leber and Bonnie Vera (Blackman) Leber; m. Bernice Jean Palus 1950; two s. one d.; ed. Missouri School of Mines and George Washington Univ.; served in Second World War, Regular Army Comm. 1942; Chief. X-10 Project, Manhattan Dist., Oak Ridge 1946, Technical Branch, Mil. Liaison Cttee. to Atomic Energy Comm., Washington 1947-49; Asst. to Dist. Engineer, Seattle Dist., then Dist. Exec. Officer, Walla Walla District, North Pacific Div., Corps of Engineers 1949-50; Engineer Bn. Commdr., and later, Group Commdr. Fort Sill 1951; Dept. of Army Gen. Staff, Washington 1952-55; Commanding Officer, 2nd Engineer Group (Construction) Eighth Army, Korea 1956-57; Exec. Officer to Chief of Engineers Washington 1958-61; Lt.-Gov. Canal Zone and Vice-Pres. Panama Canal Co. 1961-63; Ohio River Div. Engineer, Cincinnati 1963-66; Dir. of Civil Works, Office Chief of Engineers, Washington 1966; Gov. Canal Zone and Pres. Panama Canal Co. 1967-71; Safeguard Anti-ballistic Missile System Manager 1971-74 (retd.); Area Man. Middle East, Harza Eng. Co., Chicago 1974-76, Dir. Eastern Hemisphere Man. 1977-; Distinguished Service Medal and other awards. *Leisure interests:* golf, water sports, travel. *Address:* c/o Harza Engineering Co., 150 South Wacker Drive, Chicago, Ill. 60606, U.S.A.

LE BIGOT, Guillaume Charles René; French shipping executive; b. 24 Feb. 1909, Lorient, Morbihan; s. of Vice-Admiral J. Le Bigot and Louise Avenel; m. Pauline Coutret 1937; two s. three d.; ed. Ecole des Hautes Etudes Commerciales; Chief of Budgetary and Financial Section, Ministry of Armed Forces 1947-50; Chief of Liaison Mission with Allied Forces 1950-51; Chief of Div. of Budget and Finance, Allied Forces in Europe 1951-58; Ministerial Sec. for the Navy 1958-61; Mayor of Puget-sur-Argens 1959-; Chair. Compagnie des Messageries Maritimes 1961-66; Admin. Union des Transports Aériens (U.T.A.) 1961-66; Chair. French Cttee. of Lloyd's Register of Shipping 1971-; Commdr. Légion d'honneur, Commdr. Legion of Merit. *Leisure interest:* viticulture. *Address:* 9 boulevard Suchet, 75016 Paris, France. *Telephone:* 504-65-73.

LEBLANC, Roméo A.; Canadian journalist and politician; b. 18 Dec. 1927, L'Anse-aux-Cormier, Memramcook, N.B.; s. of Philias and Lucie Leblanc; m. Joslyn Carter 1966; one s. one d.; ed. St.-Joseph and Paris Univs.; Press Sec. to Prime Minister Trudeau 1967-71; M.P. for Westmorland-Kent 1972-; Minister of Fisheries 1974-79, for the Environment 1976-79; Liberal. *Address:* P.O. Box 93, Grand Digne, N.B., Canada.

LEBLOND, Charles Philippe, L. ÈS S., M.D., PH.D., D.SC., F.R.S.C., F.R.S.; Canadian professor of anatomy; b. 5 Feb. 1910, Lille, France; s. of Oscar Leblond and Jeanne Desmarcheller; m. Gertrude Elinor Sternschuss 1936; three s. one d.; ed. Univs. of Lille, Paris, Montreal and the Sorbonne; Asst. in Histology, Medical School, Univ. of Paris 1934-35; Rockefeller Fellow, School of Medicine, Yale Univ. 1936-37; Asst. Laboratoire de Synthèse Atomique, Paris 1938-40; lecturer in Histology and Embryology, McGill Univ. 1942-43, Asst. Prof. of Anatomy 1943-46, Assoc. Prof. 1946-48, Prof. of Anatomy 1948-, Chair. Dept. of Anatomy 1957-75; mem. Royal Soc. of Canada, Royal Soc. (London), American Assn. of Anatomists, Canadian Assn. of Anatomists, American Assn. for Cancer Research, American Soc. for Cell Biology, Int. Soc. for Cell Biology, Histochemical Soc., Montreal Physiological Soc., Soc. for Experimental Biology and Medicine, and others; Prix Saintour, French Acad. 1935; Flavelle Medal, Royal Soc. of Canada 1961, Gairdner Fed. Award 1965, American Coll. of Physicians Award 1966, Province of Quebec Biology Prize 1968, Officer of Order of Canada 1977. *Publications:* The Use of Radioautography in Investigating Protein Synthesis (with K. B. Warren) 1965, and over 300 articles in scientific journals. *Leisure interests:* architecture, snowshoeing, gardening. *Address:* Department of Anatomy, McGill University, Strathcona Anatomy and Dentistry Building, 3640 University Street, Montreal, Quebec, H3A 2B2, Canada. *Telephone:* 392-4931 (Office); 486-4837 (Home).

LEBLOND, Richard Knight II; American banker; b. 16 Nov. 1920, Cincinnati, Ohio; s. of Harold R. and Elizabeth (Conroy) LeBlond; m. Sally C. Chapman 1948; six s. four d.; ed. Hill School,

Pottstown, Pa., Princeton Univ., Columbia Univ., Graduate School of Business Admin., Harvard Business School; joined New York Trust Co. (now Chemical Bank) 1946, Asst. Treas. 1949, Asst. Vice-Pres. 1952, Vice-Pres. 1958, Senior Vice-Pres. 1966, Exec. Vice-Pres. 1968, Dir. Chemical Bank and Chemical New York Corpn. 1972-, Vice-Chair. 1973-. *Leisure interests:* golf, tennis, squash, skiing, swimming. *Address:* Chemical Bank, 20 Pine Street, New York, N.Y. 10005 (Office); 194 Sunset Hill Road, New Canaan, Conn. 06840, U.S.A. (Home). *Telephone:* (212) 770-2175 (Office); (203) 966-4125 (Home).

LEBURTON, Edmond-Jules-Isidore; Belgian politician; b. 18 April 1915, Lantremange (Waremme); ed. Liège Univ.; Prin. Controller of Labour 1936-46; Chef de Cabinet, Ministry of Labour and Social Welfare 1945-46; Commandant of Secret Army and mem. various resistance groups 1939-45; mem. Chamber of Representatives 1946; mem. Socialist Party Council 1947-; Burgomaster of Waremme 1947-; Prof. Ecole Provinciale de Service Social, Liège, and Ecole Provinciale d'Infirmières, Herstal; Dir. of Studies at Institut d'Etudes Sociales de l'Etat, Brussels; Minister of Public Health and Family Welfare 1954-58, of Social Security 1961-65; Minister-Vice-Pres., Co-ordinator of Infrastructure Policy 1965-March 1966; Minister for Econ. Affairs, 1969-71; Prime Minister 1973-74; Nat. Pres. Socialist Party 1971-73; awards include: Commdr. de l'Ordre de Léopold, Grand Cross Order of Orange-Nassau, Croix de guerre avec Palmes, Commdr. l'Ordre de la Santé Publique (France). *Publications:* Précis de sécurité sociale, Traité d'économie politique. *Address:* Clos de Hesbaye, Waremme, Belgium (Home).

LECANUET, Jean Adrien François; French politician; b. 4 March 1920, Rouen; ed. Lycée Corneille, Rouen, Lycée Henri IV, Paris, and Univ. of Paris; Counsellor of State; Insp. Gen., Ministry of Information 1944; Dir. of the Cabinets of Ministry of Information, Merchant Marine, Nat. Econ., Interior 1946-51; mem. Nat. Assembly 1951-55; Sec. of State, Presidency Council 1955-58; Mayor of Rouen 1968; Senator 1959-73, 1977-; Pres. Senate Cttee. of Foreign Affairs; Pres. Centre Démocrate 1966-76, Centre des démocrates sociaux 1976-; Minister of Justice 1974-76, also Minister of State 1974-77; Minister of Planning and Devt. 1976-77; Counseiller Gen. of Rouen 1958, 1964, 1970, 1976; Officier Légion d'honneur, Commdr. Ordre St. Grégoire le Grand. *Address:* 41 rue Thiers, 76000 Rouen, France.

LE CARRÉ, John (see Cornwell, David John Moore).

LECAT, Jean-Philippe; French politician; b. 29 July 1935, Dijon; s. of Jean Lecat and Madeleine Bouchard; m. Nadine Irène Romm 1966; two d.; ed. Ecole Nationale d'Administration; mem. Council of State 1963-66, 1974-; Chargé de Mission, Prime Minister's Office 1966-68; Deputy to the Nat. Assembly, Beaune 1968-72, 1973, 1978-; Nat. Del. for Cultural Affairs, Union des Démocrates pour la République 1970-71, Asst. Sec.-Gen. for Cultural Affairs and Information 1971-72; Spokesman of the Govt. 1972-73; Sec. of State for Econ. 1973-74; Minister of Information March-May 1974, of Culture and Communication April 1978; mem. Bourgogne Regional Council 1973-; Del. to Natural Resources Conservation Conf. 1975; Chargé de Mission, Pres. of Repub. Sept. 1976-, and Spokesman of the Pres. April 1978-. *Address:* 137 rue de Longchamp, 92200 Neuilly-sur-Seine, France.

LECERF, Olivier Marie Maurice; French industrialist; b. 2 Aug. 1929, Merville-Franceville; s. of Maurice and Colette (Lainé) Lecerf; m. Aline Bazin de Jessey 1958; two s. two d.; ed. Univ. of Paris, Centre d'Etudes Industrielles Geneva; joined Ciments Lafarge 1956, marketing and man. responsibilities in Brazil and Canada 1956-65; Vice-Pres. Canada Cement Lafarge 1965-71; Vice-Chair. and Gen. Man. Ciments Lafarge 1973-74; Chair. and Chief Exec. Officer Lafarge SA June 1974-; Chevalier, Légion d'honneur. *Leisure interest:* tennis. *Address:* Lafarge SA, 28 rue Emile Mercier, 75116 Paris (Office); 8 rue Guy de Maupassant, 75116 Paris, France (Home). *Telephone:* 502-11-10 (Office); 504-14-70 (Home).

LECHÍN OQUENDO, Juan; Bolivian politician and diplomatist; b. 1915; fmr. professional footballer; fmr. Minister of Mines; Pres. Bolivian Mine Workers' Confed.; fmr. Pres. of Senate; Vice-Pres. of Repub. 1960-64; Amb. to Italy 1962-63; exiled May 1965; Leader, Left Sector of Movimiento Nacionalista Revolucionario (MNR); sought asylum in Chile June 1967; Exec. Sec. Cen. Obrero Boliviano 1952-65, 1970; re-elected Exec. Sec. Fed. Sindical de Trabajadores Mineros de Bolivia 1970; now living in Argentina.

LECHÍN SUÁREZ, Lieut.-Gen. Juan; Bolivian army officer; b. 8 March 1921, Cochabamba; s. of Juan Alfredo Lechín and Julia Suárez de Lechín; m. Ruth Varela de Lechín 1947; one s. three d.; ed. Bolivian Military Acad., General Staff Coll. (Fort Leavenworth), U.S.A.; Chief of Operations, Bolivian Army H.Q.; Mil. and Air Attaché Bolivian Embassy Fed. Repub. of Germany; Commdr. 5th Infantry Div. (Bolivian); Pres. Bolivian Mining Corpn. and Minister of State; Commdr. 3rd Infantry Div. (Bolivian); Amb. to U.K., also accred. to Netherlands 1969-74; Minister for Planning and Co-ordination to the Pres. 1974-78; Cóndor de los Andes (Bolivia), Grosses Verdienstkreuz (Fed. Repub. of Germany), Guerrillero José M. Lanza, Mérito Aeronáutico, Mérito Naval (Bolivia). *Publications:* essays on military history and geo-politics. *Address:* Casilla 4405, La Paz, Bolivia.

LE CLÉZIO, Jean Marie Gustave; French-British writer; b. 13 April 1940; ed. Lycée and Univ. de Nice; travelled in Nigeria 1948, England (studied at Bristol and London Univs.), U.S.A. 1965; Prix Renaudot 1963. *Publications:* Le procès-verbal (The Interrogation) 1963, La fièvre (Fever) (short stories) 1965, Le procès 1965, Le déluge 1966, L'extase matérielle (essay) 1967, Terra amata (novel) 1967, Le livre des fuites 1969, La guerre 1970, Haï 1971, Conversations 1971, Les géants 1973, Mydriase 1973, Voyages de l'autre coté 1975. *Address:* c/o Editions Gallimard, 5 rue Sébastien-Bottin, 75007 Paris, France.

LECOURT, Robert, D. EN D.; French lawyer and politician; b. 19 Sept. 1908; s. of M. and Mme. Léon Lecourt; m. Marguerite Chabrerie 1932; one d.; ed. Caen Univ.; Resistance leader, Second World War; Deputy to Constituent Assemblies 1945, 1946; Deputy to Nat. Assembly from Paris 1946-58, from Hautes Alpes 1958-60; Minister of Justice 1948-49, 1957-58; Pres. MRP group in Nat. Assembly 1946-48, 1952-57; Minister of State, with special reponsibility for relations between the Repub. and the French Community 1959-60, for Overseas Territories, Overseas Depts. and Sahara 1960-61; mem. European Community Court of Justice 1962-76, Pres. 1967-76; Commdr. Légion d'honneur, Croix de guerre, Officier de la Résistance; Grand Cross: of Order of Merit of the Italian Republic, of Order of Merit of Fed. Repub. of Germany, de l'Ordre de la Couronne de Belgique, de l'Ordre de la Couronne de chêne du Luxembourg. *Address:* 11 boulevard Suchet, 75016 Paris, France (Home).

LEDERBERG, Joshua, PH.D.; American geneticist; b. 23 May 1925, Montclair, N.J.; s. of Zwi H. and Esther Goldenbaum Lederberg; m. Marguerite Stein Kirsch 1968; one s. one d.; ed. Columbia and Yale Univs.; Prof. of Genetics and Biology, Stanford Univ. 1959-78; Pres. Rockefeller Univ. 1978-; Nobel Prize in Medicine (with Beadle and Tatum) 1958. *Publications:* numerous papers and articles in various scientific and lay publications. *Address:* Rockefeller University, New York, N.Y. 10021, U.S.A. *Telephone:* 212-360-1234.

LEDERER, Edgar, DR.PHIL., D. ÈS SC.; French biochemist; b. 5 June 1908, Vienna, Austria; s. of Dr. Alfred Lederer and Friederike Przibram; m. Hélène Fréchet 1932; three s. four d.; ed. Akademisches Gymnasium, Vienna, and Univ. of Vienna; Postdoctoral research, Kaiser Wilhelm Inst., Heidelberg 1930-33; Ella Sachs Plotz Fellow, Inst. de Biologie Physico-Chimique 1933-35; Dir. Dept. of Organic Synthesis, Vitamin Inst. Leningrad 1936-37; Attaché de recherches, Inst. de Biologie Physico-Chimique 1938-39; served in French Army 1939-40; research on natural perfumes at Lab. de Biochimie, Lyons 1940-47; reinstated to Centre Nat. de la Recherche Scientifique (CNRS) after liberation of France 1944, Maître de recherches 1945; with Inst. de Biologie Physico-Chimique 1947-60, Dir. de recherches, CNRS 1952, Maître de conférences 1954, full Prof. 1958; Dir. Dept. de Chimie Biologique, Inst. de Chimie des Substances Naturelles, CNRS 1960-; Prof. of Biochem., Centre d'Orsay, Univ. Paris-Sud 1963-; Foreign mem. Acads. of Austria, Finland, Fed. Repub. of Germany, Ireland, Italy; Hon. mem. London Chemical Soc., Belgian Chemical Soc., U.S. Soc. of Biological Chemists, Czechoslovak Biochemical Soc., Italian Chemical Soc.; Dr. h.c. (Aberdeen) 1968, (Liège) 1975; Fritzsche award and Gold Medal, American Chem. Soc. 1951, August Wilhelm v. Hoffmann Gold Medal, German Chem. Soc. 1964, Karrer Gold Medal, Swiss Chem. Soc. 1964, CNRS Gold Medal 1974. *Publications:* books on chromatography and lipid biochemistry; original papers on chemistry and biochemistry of natural compounds and immunoadjuvants. *Address:* Institut de Chimie des Substances Naturelles, Centre National de la Recherche Scientifique, 91190 Gif-sur-Yvette (Office); 9 blvd. Colbert, 92330 Sceaux, France (Home). *Telephone:* 661-01-55 (Home).

LEDERMAN, Leon M., A.M., PH.D.; American professor of physics; b. 15 July 1922, New York, N.Y.; s. of Morris Lederman and Minna Rosenberg; m. Florence Gordon 1945; one s. two d.; ed. City Coll. of New York and Columbia Univ., New York; Prof. of Physics, Columbia Univ. 1958-, Eugene Higgins Prof. of Physics 1973-; Dir. Nevis Lab., Irvington, N.Y. 1968-; J. S. Guggenheim Fellow 1958,

Nat. Science Foundation Sr. Postdoctoral Fellow 1967, Sr. Scientific Visitor CERN 1971; Editor Comments on Nuclear and Particle Physics 1967-72; mem. Nat. Acad. of Sciences; Fellow, American Physical Soc., American Assn. of Arts and Science; Nat. Medal of Science 1967, other medals. *Publications:* About 100 articles in physics journals on general problems in elementary particle physics, including Observation of Parity Violations in Meson Decay and Observation of Two Neutrinos. *Address:* Department of Physics, Columbia University, New York, N.Y. 10027; and Nevis Laboratory, Irvington, N.Y., U.S.A. *Telephone:* 212-280-3366 (Columbia Univ.); and 914-591-8100 (Nevis Laboratory).

LEDGER, Philip Stevens, M.A., MUS.B., F.R.C.O.; British musician; b. 12 Dec. 1937, Bexhill-on-Sea, Sussex; s. of Walter Stephen and Winifred Kathleen Ledger (née Stevens); m. Mary Erryl Wells 1963; one s. one d.; ed. Bexhill Grammar School, King's Coll., Cambridge; Master of the Music, Chelmsford Cathedral 1962-65; Dir. of Music, Univ. of East Anglia 1965-73, Dean of School of Fine Arts and Music 1968-71; Artistic Dir. Aldeburgh Festival of Music and Arts 1968-; Conductor, Cambridge Univ. Musical Soc. 1973-; Dir. of Music and Organist, King's Coll., Cambridge 1974-; John Stewart of Rannoch Scholar in Sacred Music; Silver Medal of Worshipful Company of Musicians. *Publications:* (editor) Anthems for Choirs 2 and 3 1973, Oxford Book of English Madrigals 1978, editions of Byrd, Handel and Purcell, and carol arrangements. *Leisure interests:* swimming, theatre, membership of Sette of Odd Volumes. *Address:* 15 Dane Drive, Cambridge, CB3 9LP, England. *Telephone:* Cambridge 68180.

LEDINGHAM, George Aleck, M.B.E., M.SC., PH.D., F.R.S.C., F.C.I.C.; Canadian microbiologist; b. 1903; ed. Univs. of Saskatchewan and Toronto; Research Asst. in Pathology, Univ. of Saskatchewan 1927; Asst. in Botany, Univ. of Toronto 1932; Research Asst., Labs. of Cryptogamic Botany, Harvard Univ. 1932; Mycologist, Nat. Research Council, Ottawa 1933-47; Dir. Prairie Regional Lab., Nat. Research Council, Saskatoon 1947. *Publications include:* papers on soil fungi 1929-36, on the Trail Smelter Question 1934-39, on Production and Properties of 2, 3-Butanediol 1944-49, studies on plant rusts 1950-61. *Address:* 936 University Drive, Saskatoon, Sask., Canada.

LEDOUX, Albert Frédéric Edmond; French diplomatist; b. 5 June 1901, Sheffield, England; s.; ed. Bowdon Coll., Brighton Coll., Lycée Janson de Sailly, and Ecole des Hautes Etudes Commerciales; Attaché Constantinople 1927-28; Sec., Rio de Janeiro, Madrid, Brussels, Montevideo 1928-40; Gen. de Gaulle's Personal Rep. in S. America 1940-41; Del. of French Nat. Cttee. for Argentina, Brazil, Chile, Paraguay and Uruguay 1942-43; Dir. of Staff Accounts, Foreign Ministry 1944-45; Amb. to Peru 1945-49, to Uruguay 1949-52, to Norway 1955-57; Diplomatic Adviser to Govt. 1959-62; Amb. to Denmark 1962-66; Commdr. Légion d'honneur, Médaille de la Résistance, Grand Cross of St. Olav (Norway), El Sol (Peru), Dannebrog (Denmark). *Address:* Les Mimosas, 11 rue Lecerf, 06 Cannes, France.

LEDOUX, Jean-Paul; French engineer; b. 23 Oct. 1904; ed. Ecole Centrale des Arts et Manufactures, Paris; Pres., Dir.-Gen., Antar (Pétroles de l'Atlantique) and of Antargaz, Hon. Pres. 1970-; Officier Légion d'honneur, Commdr. Ordre de l'Economie nationale du Mérite commercial. *Address:* 137 de la Tour, 75016 Paris, France.

LEDOUX, Paul Joseph, D. ÈS SC.; Belgian astro-physicist; b. 8 Aug. 1914, Forrières; s. of Justin and Ida Ledoux; m. Aline Michaux 1939; one d.; ed. Athénée Royal, Marche-en-Famenne, Univ. de Liège, Inst. for Theoretical Astrophysics, Oslo and Yerkes Observatory, Univ. of Chicago; served with Belgian Forces in U.K. and R.A.F. Meteorological Service 1941-46; Adviser, Service Météorologique, Régie des Voies Aériennes; mem. teaching staff, Univ. of Liège 1950-, Prof. 1959-; Visiting Prof., Univ of Calif. (Berkeley) 1963, Monash Univ. 1967, Sussex Univ. 1969, Univ. of Colorado 1970; Senior Foreign Scientist Fellow, Nat. Science Foundation, Univ. of Washington 1972; Chair. Observatory Programme Cttee., European Southern Observatory 1972-74, mem. Council ESO 1975-; mem. Acad. Royale de Belgique; Assoc. Royal Astronomical Soc. 1974; Dr. h.c. (Brussels) 1970; Prix décennal du gouvernement Belge 1968, Prix Francqui 1964, Eddington Medal, Royal Astronomical Soc., U.K. 1972, J. Jansen Medal, Acad. des Sciences, Paris 1976. *Publications:* various articles in astrophysical journals on the problems of stellar structure, stellar stability and variable stars. *Leisure interests:* gardening, country walks. *Address:* Institut d'Astrophysique, avenue de Cointe 5, 4200 Ougrée (Office); rue de la Faille 55, 4000 Liège, Belgium (Home). *Telephone:* 041-52-99-80 (Office); 041-52-12-45.

LEDOUX, Pierre, D. EN. D., H.E.C.; French banker; b. 30 Sept. 1914, Bordeaux; s. of René Ledoux and Jeanne Dupuy; m. Renée Boissin 1949; ed. Lycée de Bordeaux and Faculté de Droit, Paris; on special assignment with Financial Comm. in the Far East 1945; Financial Attaché, China 1946; Financial Attaché, French Embassy, Washington, D.C. 1947-48; Office of Prime Minister on special assignment concerning EEC 1949-50; Gen. Sec. and Man. Banque Nationale pour le Commerce et l'Industrie (BNCI) 1950-56, Pres. BNCI (Afrique) 1957-72, Pres. BNCI 1963-66; Pres. Banque Nationale de Paris 1966-71, Chair. 1971-, Chair. Banque Nationale de Paris Intercontinentale 1972; Chair. Soc. Financière Européenne, Luxembourg, Supervisory Board Banque de la Soc. Financière Européenne, Paris; Vice-Chair. BNP Canada Inc., Australian European Finance Corpn. Ltd., Cie. Arabe et Int. d'Investissement, Banque Marocaine pour le Commerce et l'Industrie, Supervisory Board Banque pour l'Expansion Industrielle; Dir. Crédit National, Thomson-Brandt, Usinor, Denain Nord-Est Longwy, Soc. Française des Pétroles BP, Banque Nationale pour le Commerce et l'Industrie (Océan Indien), Inst. Pasteur, Banque Nationale de Paris Ltd., Banca d'America e d'Italia, French American Banking Corpn., French Bank of California, Banque Bruxelles Lambert, Private Investment Co. for Asia, S.A.; Croix de guerre 1939-45, Commdr. Légion d'honneur. *Address:* Banque Nationale de Paris, 16 boulevard des Italiens, 75450 Paris Cedex 09 (Office); 8 avenue Pierre-le-Serbie, 75116 Paris, France (Home). *Telephone:* 244-45-46 (Office); 720-85-72 (Home).

LEDUC, François Jacques; French diplomatist; b. 10 Nov. 1912, Paris; m. France Renaudin 1937; four s. three d.; ed. Lycée Louis-le-Grand, Univ. de Paris., and King's Coll., Cambridge; Econ. Section, Ministry of Foreign Affairs 1945-47; Resident, Tunis 1947-50; Ministry of Nat. Defence 1951-54; Mayor of Servon 1953-71, 1977-; Minister-Counsellor, Bonn 1955-57, 1958-60, Brussels 1957-58; Dir. Admin. and Consular Affairs, Ministry of Foreign Affairs 1960-65; Chair. Compagnie européenne de radiodiffusion et de télévision (CERT) 1963-65; Amb. to Canada 1965-68, to Austria 1968-73; mem. of Board, Télédiffusion de France 1974, Institut National de l'Audiovisuel 1974-76, Soc. Monégasque d'Etudes et Radiocommunications (SOMERA) 1975-78, Agence France-Presse 1975; Commdr. Légion d'honneur, Medal of Freedom. *Address:* 4 Oudinot, 75007 Paris; and 77170 Servon, France. *Telephone:* 273-36-51 (Paris).

LEDWIDGE, Sir William Bernard John, K.C.M.G., M.A.; British diplomatist; b. 9 Nov. 1915, London; s. of Charles and Eileen (née O'Sullivan) Ledwidge; m. 1st Anne Kingsley 1948 (divorced 1970); m. 2nd Flora Groult 1970; one s. one d.; ed. Cardinal Vaughan School, King's Coll., Cambridge and Princeton Univ. Commonwealth Fund Fellow, Princeton 1937-39; Mil. Service 1941-45; Principal, India and Burma Office 1946-48, First Sec. Foreign Office 1948-49, Counsellor 1961-65; British Consul, St. Louis, U.S.A. 1949-52; First Sec. British Embassy, Afghanistan 1952-56; Political Adviser British Mil. Gov., Berlin 1956-61; Minister, British Embassy, Paris 1965-69; Amb. to Finland 1969-72 to Israel 1972-75; Chair. U.K. Cttee. for UNICEF 1976; mem. Police Complaints Bd. 1977; Vice-Chair. U.K. Assn. for Int. Year of Child 1979. *Leisure interests:* golf, bridge, chess. *Address:* 19 Queen's Gate Terrace, London, S.W.7, England; 54 rue de Bourgogne, 75007 Paris, France. *Telephone:* 01-705 8026 (London).

LEE, Christopher Frank Carandini; British actor, author and director; b. 27 May 1922, London; s. of late Lieut.-Col. Geoffrey Trollope Lee and of Estelle Marie Carandini; m. Birgit Kroenke 1961; one d.; ed. Summer Fields Preparatory School, Wellington Coll.; served R.A.F. 1941-46; mentioned in despatches 1944; film industry 1947-; appeared in over 130 motion pictures; Officier Ordre des Arts et des Lettres 1973. *Publications:* Christopher Lee's Treasury of Terror, Christopher Lee's Archives of Evil 1975, 1976, Christopher Lee's The Great Villains 1977, Tall, Dark and Grue- (autobiography) 1977. *Films include:* Moulin Rouge 1953, The Curse of Frankenstein 1956, Tale of Two Cities 1957, Dracula 1958, The Hound of the Baskervilles 1959, The Mummy 1959, Rasputin the Mad Monk 1965, The Wicker Man 1973, The Three Musketeers 1973, The Private Life of Sherlock Holmes 1973, The Four Musketeers 1975, The Man With the Golden Gun 1975, To the Devil a Daughter 1976, Airport 77 1977, Return from Witch Mountain, 1977, How the West Was Won 1977, Caravans 1977, The Silent Flute 1977, The Passage 1978, 1941 1978, Bear Island 1978. *Leisure interests:* music, travel, golf. *Address:* c/o The Robert Littman Co., 409 North Camden Drive, Beverly Hills, Calif. 90210, U.S.A.

LEE, Sir Henry Desmond Pritchard, Kt., M.A., D.LITT.; British university lecturer and schoolmaster; b. 30 Aug. 1908, Nottingham; s. of Canon H. B. Lee; m. Elizabeth Crookenden 1935; one s. two

d.; ed. Arden House, Repton School, Cambridge Univ.; Tutor, Corpus Christi Coll., Cambridge Univ. 1935-48; Lecturer, Faculty of Classics 1937-48; Regional Commrs. Office (Civil Defence) 1940-44; [redacted] Council of Senate, Cambridge Univ. 1944-48; Headmaster, Clifton Coll. 1948-54, Winchester Coll. 1954-68; Chair. Headmasters' Conf. 1959-60, 1967; Research Fellow, Wolfson Coll., Cambridge 1968-73; Pres. Hughes Hall, Cambridge 1974-78; Hon, D.Litt. (Nottingham). *Publications:* Zeno of Elea (text and trans.) 1935, Aristotle's Meteorologica 1952, Plato's Republic 1955, Plato's Timæus and Crito 1971, Entry and Performance at Oxford and Cambridge 1966-71 1972. *Leisure interests:* carpentry, reading. *Address:* 8 Barton Close, Cambridge, England.

LEE, General Honkon; Korean army officer and diplomatist; b. 7 Dec. 1920, Kongjoo, Choong Chung Nam-Do, Korea; s. of Kidong Lee and Jinsil Ahn; m. Haeran Lee 1946; two s. four d.; ed. Japanese Imperial Mil. Acad., Japanese Field Artillery School and U.S. Infantry School; Supt. Korean Mil. Acad. 1946-48; Mil. Attaché, Washington 1949; Commdg. Gen., Eighth Repub. of Korea Army Div. 1949-50, Third Army Corps 1950-51, First Army Corps 1952-54; UN Command Del. to Korean Armistice 1951-52; Chair. Joint Chiefs of Staff 1954-56, Chief of Staff 1956-58; Nat. Pres. Korean Veterans Assn. 1958-61; Amb. to Philippines 1961-62, to U.K. 1962-67 (also to Scandinavian countries, Iceland, Malta and African countries concurrently); Amb. at large 1967-69; Chair. President's Advisory Comm. on Govt. Admin. 1969; Chair. Korea Anti-Communist League 1976-; Chair. Korea-British Soc. 1978-; decorations from Republic of Korea, U.S.A., France, U.K., Greece and Vatican. *Leisure interests:* horse riding, reading, music appreciation. *Address:* 51 Daeshin-Dong, Sudaemoon-Ku, Seoul, Republic of Korea. *Telephone:* 33-5233.

LEE, James E.; American oil executive, b. 13 Dec. 1921, Kiln, Mississippi; m. Kathleen Ruth Edwards 1943; two s. two d.; ed. Polytechnic Inst.; Gulf Oil Corpn. 1942-, served in various engineering and supervisory posts 1942-56; Project Adviser to Filoil Refinery Corpn., Manila 1959; Area Rep. Manila, Exec. Vice-Pres., Gen. Man. Orient Gulf Oil Co. 1962; Vice-Pres. of Refining, Pacific Gulf Oil Ltd., Japan 1963, Area Rep. and Co-ordinator for Far East 1964; Man. Dir. Kuwait, Kuwait Oil Co. 1966; Pres. Gulf Oil Co. (Eastern Hemisphere) 1969; Exec. Vice-Pres. Gulf Oil Corpn. 1972-73, Pres., Dir. 1973-; Trustee Carnegie-Mellon Univ. 1973, Shady Side Acad. 1974; mem. Board American Petroleum Inst., Western Pennsylvania Hospital, La. Tech. Eng. Foundation 1973, Pittsburgh Theological Seminary; Hon. D.S. 1975. *Address:* Gulf Oil Corporation, Gulf Building, Pittsburgh, Pa. 15230, U.S.A.

LEE KUAN YEW, M.A.; Singapore politician and barrister; b. 16 Sept. 1923, Singapore; s. of Lee Chin Koon and Chua Jim Neo; m. Kwa Geok Choo 1950; two s. one d.; ed. Raffles Coll., Singapore, Fitzwilliam Coll., Cambridge, and Middle Temple, London; one of founders of Socialist People's Action Party 1954, Sec.-Gen. 1954-; mem. Legis. Assembly 1955-; (first) Prime Minister 1959-; mem. Singapore Internal Security Council 1959-; (first) Prime Minister Repub. of Singapore 1965-; mem. Cambridge Univ. Labour Club; mem. Bureau of the Socialist Int. 1967-76; Fellow, Inst. of Politics, Harvard Univ. 1968; Hoyt Fellow, Berkeley Coll., Yale Univ. 1970; Hon. Bencher of Middle Temple 1969; Hon. Fellow, Fitzwilliam Coll., Cambridge 1969, Royal Australasian Coll. of Surgeons 1973, Royal Australasian Coll. of Physicians 1974; Hon. LL.D. (Royal Univ. of Cambodia) 1965, (Hong Kong) 1970, (Liverpool) 1971, (Sheffield) 1971; Hon. C.H. 1970; Hon. G.C.M.G. 1972; Grand Cordon of Order of the Nile 1962, Grand Cross of Royal Order, Cambodia 1966, First Class Order of Rising Sun (Japan) 1967, Bintang Republik Indonesia Adi Pradana 1973, Order of Sikatuna (Philippines) 1974, numerous other awards. *Leisure interests:* walking, golf. *Address:* Prime Minister's Office, St. Andrew's Road, Singapore 6. Telephone: 31155.

LEE, Laurie, M.B.E., F.R.S.L.; British author and poet; b. 26 June 1914, Stroud, Gloucestershire; m. Catherine Francesca Polge 1950; one d.; ed. Slad Village School, and Stroud Central School; Scriptwriter with Crown Film Unit 1940-43; editor, Ministry of Information 1944-46; film-making in India 1946-47; caption-writer-in-chief, Festival of Britain 1950-51; travelling and writing 1951-; Atlantic Award 1947, William Foyle Poetry Prize 1956, W. H. Smith and Son Award (Cider with Rosie) 1960. *Publications:* The Sun My Monument (poems) 1944, The Bloom of Candles (poems) 1947, The Voyage of Magellan (radio play) 1948, A Rose for Winter (travel) 1955, My Many-Coated Man (poems) 1955, Cider with Rosie (autobiography) 1959, The Firstborn (essay) 1964, As I Walked out one Midsummer Morning (autobiography) 1969, I Can't Stay Long (prose collection) 1975. *Leisure interests:* music, country pleasures. *Address:* 49 Elm Park Gardens, London, S.W.10, England. *Telephone:* 01-352 2197.

LEE, Rensselaer Wright, A.B., PH.D.; American art historian; b. 15 June 1898, Philadelphia, Pa.; s. of Francis Herbert Lee and Helen Josephine Stavers Lee; m. Stella Wentworth Garrett 1925; one s. two d.; ed. Princeton Univ.; Instructor of English, Princeton Univ. 1922-23, 1925-28, Chair. Dept. of Art and Archaeology 1955-64, Marquand Prof. 1961-66; Assoc. Prof. History of Art and Chair. of Dept., Northwestern Univ. 1931-34, Prof. 1934-40; Prof. Smith Coll. 1941-48, Columbia Univ. 1948-54, New York Univ. 1954-55; Editor-in-chief Art Bulletin 1942-44; mem. Inst. for Advanced Study 1939, 1942-44, 1946-47; Chair. Cttee. on Research and Publication in the Fine Arts 1942-44, Protection of Cultural Treasures in War Areas 1944-46; mem. Board of Dirs. American Council of Learned Socs. 1953-61; Pres. Coll. Art Assn. of America 1944-46; Pres. and Trustee, Renaissance Soc. of America 1977-78; Harris Lecturer, Northwestern Univ. 1966; Pres. American Acad. in Rome 1968-71; Vice-Pres., Int. Fed. of Renaissance Socs. and Insts. 1961-70; Pres. Union Académique Internationale 1962-65; Vice-Pres. Int. Council for Philosophy and Humanistic Studies 1965-71; Chair. Pres. Advisory Cttee. Yale Center for British Art and British Studies 1972-; Fellow, American Acad. of Arts and Sciences; mem. American Philosophical Soc.; Hon. L.H.D. (Northwestern Univ.). *Publications:* Ut pictura poesis: The Humanistic Theory of Painting 1940, new edn. 1967, Italian edn. 1974, Names on Trees: Ariosto into Art 1977. *Leisure interests:* travel, music, ornithology. *Address:* 120 Merser Street, Princeton, N.J. 08540, U.S.A. *Telephone:* 924-2401.

LEE, General Robert Merrill; American air force officer; b. 1909, Hinsdale, N.H.; s. of Merrill T. Lee and Maisie Townsend; m. 1st Julia Ann Ball 1932 (died 1937), 2nd Mary Hall Van Pelt 1940 (died 1973), 3rd Mary Francis Donnellan 1974; three s.; ed. U.S. Military Acad., West Point, Air Corps Flying Schools, Air Corps Tactical School and Nat. War Coll.; 55th Pursuit Squadron 1932-37, First Cavalry (Mechanized) 1937-38, 12th Observation Squadron 1938-40, Commdr. 1940-41, Chief of Corps Aviation 1941-42, Commdr. 73rd Observation Group 1942-43, Chief of Staff, 1st Air Support Command 1943-44, Deputy Commdg. Gen. for Operations and Chief of Staff, Ninth Air Force, Western Europe 1944-45, Air Section, Theater Gen. Board, Europe 1945, Chief of Staff, Tactical Air Command Virginia 1946; Nat. War Coll. 1946-47; Deputy Commdg. Gen., Tactical Air Command, Langley Field, Virginia 1947-48, Commdg. Gen. 1948-50, Commdr. Air Task Group 3.4 for Atomic Bomb Tests Greenhouse 1950-51, Dir. of Plans, Deputy Chief of Staff for Operations, H.Q. USAF 1951-53, Commdr. Fourth Allied Tactical Air Force 1953-57, of Twelfth United States Air Force in Europe 1953-56, Commdr. Ninth Air Force Tactical Air Command 1957-58, Chief of Staff, United Nations Command, United States Forces, Korea 1958-59, Vice-Commdr. Air Defense Command 1959-61, Commdr. 1961-63; Air Deputy to Supreme Allied Commdr. Europe, NATO 1963-66; Distinguished Service Medal, Legion of Merit, Grand Officier Légion d'honneur, Hon. C.B.E. and other decorations. *Leisure interests:* shooting, hunting, fishing, golf, squash racquets, skin-diving. *Address:* 318 Pine Avenue, Colorado Springs, Colo. 80906, U.S.A. *Telephone:* 303-473-8756.

LEE TSUNG-DAO, PH.D.; Chinese physicist; b. 25 Nov. 1926, Shanghai; ed. National Chekiang Univ., National Southwest Univ. (China) and Univ. of Chicago; Research Assoc. in Astronomy, Univ. of Chicago 1950; Research Assoc. and Lecturer in Physics. Univ of California 1950-51; [redacted] Inst. for Advanced Study Princeton, N.J. 1951-53; Asst. Prof. of Physics Columbia Univ. 1953-55; Assoc. Prof. 1955-56 and Prof. 1956-60, 1963-; Prof. Princeton Inst. for Advanced Study 1960-63; mem. Nat. Acad. of Sciences; Nobel Prize in Physics 1957, Albert Einstein Award in Science 1957. *Publications:* articles in physical journals. *Address:* Department of Physics, Columbia University, Morningside Heights, New York, N.Y. 10027; 25 Claremont Avenue, New York, N.Y. 10027, U.S.A.

LEE YONG LENG; Singapore diplomatist; b. 26 March 1930, Singapore; s. of Lee Choon Eng and Lim Swee Joo; m. Wong Loon Meng 1957; one d.; ed. Univ. of Singapore and St. Antony's Coll., Oxford; Lecturer and Prof. Univ. of Singapore 1956-70, Prof. 1976-; High Commr. to U.K. 1971-75; Amb. to Denmark and Ireland 1974-75. *Publications:* North Borneo 1965, Population and Settlement in Sarawak 1970, Land Use of Brunei, Sabah and Sarawak 1972, Southeast Asia and the Law of the Sea 1977. *Leisure interests:* swimming, tennis, reading, travel. *Address:* c/o University of Singapore, Singapore.

LEE OF ASHERIDGE, Baroness (Life Peeress), cr. 1970, of the City of Westminster; **Jennie Lee,** P.C., M.A., LL.B.; British politician; b. 3 Nov. 1904, Lochgelly, Fife, Scotland; d. of James Lee and Euphemia Grieg; m. The Rt. Hon. Aneurin Bevan 1934 (died 1960); ed. Edinburgh Univ.; M.P. for North Lanark 1929-31, Cannock

1945-70; Parl. Sec. Ministry of Public Building and Works 1964-65; Minister for the Arts and Under-Sec. of State, Dept. of Educ. and Science 1965-67, Minister for the Arts and Minister of State, Dept. of Educ. and Science 1967-70; Dir. Tribune; mem. Cen. Advisory Cttee. on Housing; mem. Nat. Exec. Cttee., Labour Party 1958-70, Chair. 1967-68; Hon. LL.D. (Cambridge). *Publications:* Tomorrow is ■ New Day 1939, Our Ally, Russia 1941, This Great Journey 1963. *Leisure interests:* reading, theatre, gardening. *Address:* 67 Chester Row, London, S.W.1, England.

LEE OF NEWTON, Baron (Life Peer), cr. 1974, of Newton in the County of Merseyside; **Frederick Lee,** P.C.; British politician; b. 3 Aug. 1906; ed. Langworthy Road School; fmr. Engineer, Chair. Works Cttee. Metro-Vickers Ltd., Trafford Park, Manchester; mem. Nat. Cttee Amalgamated Eng. Union 1944-45; M.P. 1945-74; fmr. Parl. Private Sec. to Chancellor of Exchequer; Parl. Sec., Ministry of Labour 1950-51; Minister of Power 1964-66; Sec. of State for Colonies 1966-67; Chancellor of Duchy of Lancaster, taking special responsibility for the North 1967-69; Labour. *Address:* Sunnyside, 52 Ashton Road, Newton-le-Willows, Lancs., England.

LEER-ANDERSEN, Rt. Rev. Jens Bagh; Danish ecclesiastic; b. 25 Nov. 1910, Skagen; s. of Jacob Andersen and Mette (née Sorensen); m. Inga Grethe Rasmussen; one s. one d.; ed. Stenhus Coll., Holbaek, and Univ. of Copenhagen; Minister Groendals Church, Copenhagen 1936-40, Blistrup 1940-47; Sec. Church Fund of Copenhagen 1947-50, Exec. Sec. 1950-56; Minister of St. Olaf's Church, Elsinore 1956-61; Bishop of Elsinore diocese 1961-. *Address:* Heslehøj Alle 4, 2900 Hellerup, Denmark. *Telephone:* 01-629312.

LEFEBVRE, Marcel, S.T.D.; French ecclesiastic; b. 29 Nov. 1905, Tourcoing; s. of the late René Lefebvre and Gabrielle (née Watine); ed. Sacred Heart Coll., Tourcoing, and French Seminary, Rome; ordained R.C. priest 1929; entered Congregation of the Fathers of the Holy Ghost (missionary congregation); sent to Gabon as Missionary 1932; Apostolic Vicar of Dakar, Senegal 1947; Apostolic Del. to French-speaking Africa 1948-59; Archbishop of Dakar 1948-62; mem. Cen. Preparatory Comm. for Second Vatican Council 1960-62; Bishop of Tulle, France 1962, resgnd. 1962; Titular Archbishop of Synnada in Phrygia 1962-; Superior-Gen. Congregation of Fathers of the Holy Ghost 1962-68, resgnd.; f. Soc. of Saint Pius X 1969, Superior-Gen. 1970-; continues to celebrate Tridentine Mass despite Inter Oecumenici (1964); mem. Acad. Berrichone, France; Hon. Ph.D. (Duquesne); Asst. at Pontifical Throne, Commdr. Order of Christ (Portugal), Grand Officier Légion d'honneur, Officier of Equatorial Star. *Publications:* Un evêque parle (A Bishop Speaks) 1974, J'accuse le concile 1976, many articles on the current crisis in the Catholic Church. *Address:* Séminaire International Saint-Pie X, Ecône, 1908 Riddes, Valais, Switzerland. *Telephone:* (026) 62927, 62308.

LE FÈVRE DE MONTIGNY, Gillis Johannis; Netherlands army officer; b. 1901; ed. Breda Royal Mil. Acad., General Staff Coll.; 2nd Lieut. Artillery 1922, until 1932 with Garrison Artillery Regt., and 1st and 2nd Field-Artillery Regts.; Staff Coll. 1932-35; ADC to Chief of Gen. Staff 1937-38; Chief of Staff 4th Div. 1939-40; prisoner of war in Germany 1942-45; attached to Mil. Cabinet of Ministry of War 1945-47; Asst. Chief of Staff, G.5 (Training) 1947-50; Chief of Staff 1 (NL) Corps. 1950-53; Deputy Chief of Staff, Allied Forces in Cen. Europe (NATO H.Q.) 1953; Deputy Chief of Staff (Operations and Intelligence), Royal Netherlands Army 1955; Vice-Chief of Gen. Staff 1957, Chief of Gen. Staff, C.-in-C., Netherlands Land Forces 1957-62; Chair. Joint Chiefs of Staff 1962-65; A.D.C. Extraordinary of H.M. Queen Juliana 1962-. *Address:* Hasseltse Straat 19, The Hague, Netherlands. *Telephone:* 553328.

LEFOL, Lucien, D. EN. D.; French industrialist; b. 21 April 1891; ed. Ecole Polytechnique, Ecole du Génie Maritime; Naval engineer 1913; joined Société des Ateliers & Chantiers de France ■ engineer 1921, Chief Engineer 1923, Dir. 1925, Dir.-Gen. 1929, Pres. 1943, now Hon. Pres.; Hon. Pres. Cie. des Forges et Aciéries de la Marine et de Saint-Etienne; Vice-Pres. Admin. Council Sidelor, and Chamber of Shipbuilders and Marine Engineers; mem. Admin. Council Cie. Auxiliaire de Navigation, Cie. de Construction Mécanique Sulzer, Technical Maritime and Aeronautical Assen., Ateliers & Forges de la Loire, Soc. des Mines et Usines de Redange-Dilling, Charbonnages de Beeringen, Aciéries et Forges de Firminy, Forges & Chantiers de la Gironde; mem. Inst. of Naval Architects, Soc. of Naval Architects, Soc. of Naval Architects and Marine Engineers; corresp. mem. Acad. de la Marine; Commdr. Légion d'honneur, Croix de guerre 1914-18, Commdr. Ordre du Mérite maritime. *Address:* 4 rue Mignard, 75116 Paris, France.

LE GALLIENNE, Eva; American actress, director and author; b. 11 Jan. 1899, London, England; d. of Richard Le Gallienne and Julie Norregaard; ed. Coll. Sévigné, Paris; Debut in London in The Laughter of Fools 1915; in New York starred in Liliom 1922, The Swan 1923; f. Civic Repertory Theatre in New York 1926; played and produced there some 40 plays, including Ibsen's Master Builder, Hedda Gabler, John Gabriel Borkman, Chekhov's The Cherry Orchard, The Seagull, Sierra's The Cradle Song, Giraudoux' Siegfried, Dumas' Camille, Shakespeare's Romeo and Juliet and Twelfth Night, Barrie's Peter Pan, Molière's Would-be Gentleman, Carroll's Alice in Wonderland, etc.; subsequently appeared on Broadway in Rostand's L'Aiglon, Job's Uncle Harry, Shakespeare's Henry VIII, Ibsen's Rosmersholm and Ghosts, Williams' The Corn is Green; Elizabeth I in Schiller's Mary Stuart in New York and on tour 1958-60, and in Maxwell Anderson's Elizabeth The Queen on tour 1961-62; on tour in Chekhov's The Seagull and Anouilh's Ring Round the Moon 1962-63 and in The Trojan Women and The Mad Woman of Chaillot 1965-66; with A.P.A. Repertory Co., New York, in Ionesco's Exit the King, directed Chekhov's The Cherry Orchard 1967-68, Ibsen's A Doll's House, Seattle Rep. 1975; played in All's Well That Ends Well at the American Shakespeare Festival Theatre, Stratford, Conn. 1970, Mrs. Woodfin in The Dream Watcher at the White Barn Theatre 1975, Fanny Cavendish in The Royal Family at the Helen Hayes Theatre, New York 1976 and on the National Tour 1976-77; Man. Dir. of American Rep. Theatre 46-47; Hon. M.A. (Tufts), Litt.D. (Russell Sage and Mt. Holyoke Colls.), D.H.L. (Smith Coll. and Fairfield); Gold Medal Soc. of Arts and Sciences, Gold Medal American Acad. of Arts and Letters, Cross of St. Olav (Norway), Handel Medallion 1976, ANTA Award 1977. *Publications:* At 33 (autobiography) 1934, Alice in Wonderland (stage version, French edn.), Flossie and Bossie 1949, With ■ Quiet Heart 1953, Six Plays by Henrik Ibsen (trans.) 1958, Seven Tales by H. C. Anderson (trans.) 1959, The Wild Duck and other Plays by Ibsen (trans.) 1961, H. C. Andersen's The Nightingale (trans.) 1965, The Mystic in the Theatre: Eleonore Duse 1966. *Address:* North Hillside Road, Weston, Conn. 06880, U.S.A.

LEGAZ, Lacambra Luis; Spanish university professor; b. 1906; m. Carmen L. Niño 1937; ed. Colegio de Escolapios, Saragossa, Univs. of Saragossa, Madrid, Grenoble, Munich, Vienna, and Acad. de Droit Internat., The Hague; Doctor of Law 1932; Asst. Prof. Univ. Saragossa 1932; Prof. Univ. La Laguna 1935; Univ. Santiago de Compostela 1935, Rector, Univ. Santiago de Compostela 1942-60; Prof. Univ. of Madrid 1960-; Under-Sec. Ministry of Nat. Educ. 1962-68; award from Coimbra Univ.; Dir. Inst. de Estudios Políticos, Madrid 1970-74; mem. Inst. Int. de Sociologie, Real Acad. de Ciencias Morales y Políticas, Madrid, Real Acad. de Jurisprudencia y Legislación, Fac. Int. pour l'Enseignement du Droit Comparé, Strasbourg, Int. Acad. for Comparative Law. *Publications:* Kelsen; Estudio Crítico 1933, El Estado de Derecho 1935, Introducción a la Ciencia del Derecho 1943, Horizontes del Pensamineto Jurídico 1947, Derecho y Libertad 1952, Filosofia del Derecho 1953, Justicia, Derecho y seguridad 1954, La Obligación Política 1956, La Función del Derecho en la Sociedad Contemporánea 1956, Political Obligation and Natural Law 1957, Lógica y pensamiento jurídico 1957, Humanismo, Estado y Derecho 1959. La Realidad del Derecho 1963, Rechtsphilosophie 1965, Socialización 1964, Amor, Amistad, Justicia 1969, Socialización, Administración, Desarrollo 1971, Problemas y Tendencias de la Filosofía del Derecho Contemporánea 1971, El Derecho y el Amor 1976. *Leisure interest:* music. *Address:* Ministro Ibáñez Martín 4, Madrid 15, Spain. *Telephone:* 2432571.

LÉGER, Jules, C.C., C.M.M., C.D. (brother of H.E. Cardinal Paul Emile Léger, *q.v.*); Canadian diplomatist and governor-general; b. 4 April 1913, Saint-Anicet, P.Q.; s. of Ernest and Alda Léger (née Beauvais); m. Gaby Carmel 1938; one d.; ed. Collège de Valleyfield, Univs. of Montreal and Paris; Assoc. Editor Le Droit, Ottawa 1938-39; Prof. of History of Diplomacy, Univ. of Ottawa 1939-42; joined Dept. of External Affairs 1940; Canadian Mission to Chile 1943-47, Gen. Assembly of UN, Paris 1948-49; Head European Div., Dept. of External Affairs 1950-51; Asst. Under-Sec. of State for External Affairs 1951-53; Amb. to Mexico 1953-54; Under-Sec. of State 1954-58; Amb. and Perm. Rep. to NATO, Rep. to OEEC 1958-62; Amb. to Italy 1962-64, to France 1964-68; Under-Sec. of State 1968-73; Amb. to Belgium and Luxembourg 1973; Gov.-Gen. of Canada 1974-78. *Address:* c/o Government House, Ottawa, Ont., K1A 0A1, Canada.

LÉGER, H.E. Cardinal Paul Emile, L.TH., J.C.L. (brother of Jules Léger, *q.v.*); Canadian ecclesiastic; b. 26 April 1904, Valleyfield; s. of Ernest Léger and Alda Beauvais; ed. Grand Séminaire of Montreal and Paris; ordained at Montreal May 1929; Prof. Issy Séminaire (near Paris) 1931-32; Asst. Master of Novices, Saint-Sulpice, Paris 1932-33; Founder-Superior at Fukuoka Seminary, Japan

1933-39; Prof. Montreal Seminary of Philosophy 1939-40; Vicar-Gen. and Cathedral Pastor Valleyfield 1940-47; Rector of Canadian Coll., Rome 1947-50; elected to Episcopal See 1950 and enthroned as Archbishop of Montreal May 1950, resgnd. ■ Archbishop of Montreal Nov. 1967 to become missionary in leper colonies, W. Africa; elevated to Cardinal, with title of St. Mary of the Angels 1953; papal legate to closing of the Marian Year at Lourdes 1954, to crowning of statue of St. Joseph at Montreal 1955, to St. Anne de-Beaupré Tercentenary P.Q. 1958; numerous hon. degrees; Knight Grand Cross Légion d'honneur, Equestrian Order of Holy Sepulchre (Jerusalem), Sovereign Order of Malta, Order of Canada Medal, Grand Cross de Benemerencia (Portugal), Humanitarian Award of Variety Clubs Int. *Address:* 1071 Cathedral Street, Montreal 3, P.Q., Canada.

LE GOY, Raymond Edgar Michel; British civil servant; b. 1919; s. of J. A. S. M. N. and May Le Goy; m. Ernestine Burnett 1960; two s.; ed. William Ellis School, London, Gonville and Caius Coll., Cambridge; British Army 1940-46; entered Civil Service 1947, Asst. Prin., Road Transport Div., Ministry of Transport 1947-48; various posts in shipping and highways divs., U.K. Shipping Adviser in Far East and S.E. Asia; Ministry of Transport and Civil Aviation 1948-58; Asst. Sec. Railways and Inland Waterways Div., Ministry of Transport and Civil Aviation 1958-59; Asst. Sec. Finance and Supply Ground Services and Aerodrome Management, Ministry of Aviation 1959-61, Dir. of Admin. Navigational Services 1961-62; Asst. Sec. Aviation Overseas Policy, Ministry of Aviation and Board of Trade 1962-68; Under-Sec. of Civil Aviation 1968-73; Head Del. to European Civil Aviation Conf.; Dir.-Gen. of Transport, Comm. of EEC 1973-. *Leisure interests:* theatre, music, race relations. *Address:* Directorate-General of Transport, Commission of the European Communities, 120 rue de la Loi, 1040 Brussels, Belgium. *Telephone:* 73500-40.

LE GRANGE, Louis, LL.B.; South African politician; b. 16 Aug. 1928, Ladybrand; m. Jessie Ortlepp Marais 1952; two s. two d.; joined Civil Service, Department of Interior 1947, later moving to Dept. of Justice; practiced ■ attorney, Potchefstroom from 1953; M.P. 1966, Deputy Minister 1975, Minister of Public Works and Tourism 1978-79,of Police and Prisons June 1979-. *Leisure interests:* target rifle shooting, golf. *Address:* House of Assembly, Cape Town, South Africa. *Telephone:* 38880.

LEHEL, György; Hungarian conductor; b. 10 Feb. 1926, Budapest; s. of László Lehel and Klara Ladányi; m. Dr. Zsuzsa Markovits 1969; one s.; studied composition with Pál Kadosa and conducting with László Somogyi; Conductor Symphonic Orchestra of Hungarian Radio 1947-62, Chief Conductor and Music Dir. 1962-; propagates contemporary Hungarian music; has conducted in Czechoslovakia, Poland, Switzerland, Austria, Soviet Union, Italy, Romania, France, Belgium, Norway, Finland, Sweden, German Dem. Repub., Fed. Repub. of Germany, Yugoslavia, Great Britain, U.S.A., Canada and Japan; Hon. D.Mus. (Chicago Conservatory) 1977; Liszt Prize 1955, 1962, Merited Artist of the Hungarian Repub. 1968, Kossuth Prize 2nd Degree 1973; numerous recordings. *Leisure interests:* literature, arts. *Address:* Symphonic Orchestra of Hungarian Radio, Bródy Sándor u. 5-7, 1800 Budapest VIII; Normafa ut 17/A, H-1121, Budapest, Hungary (Home). *Telephone:* 366-283.

LEHMANN, Ernst, DR.RER.POL.; Israeli banker; b. 29 April 1902, Berlin, Germany; s. of Eugen and Elsa Lehmann (née Bachrach); m. Nelly Frank 1926; one s.; ed. Berlin and Munich Univs.; worked for several banks in Germany 1924-35; migrated to Palestine, apptd. Man. The Gen. Mortgage Bank of Palestine Ltd. 1935; Man. Issue Dept., Anglo-Israel Bank Ltd. (now Bank Leumi le-Israel) dealt with issue of currency of Israel and admin. of Govt. Loans 1948; Chair. Board of Dirs. Bank Leumi le-Israel B.M. 1970-76, Dir. 1977; Chair. Gen. Mortgage Bank Ltd.; Chair. Council, Jewish Colonial Trust; fmr. chair. Bank Leumi (France) Ltd., Bank Leumi (Schweiz) Ltd. Board of Dirs. Migdal-Binyan Insurance Co. Ltd., Africa-Israel Investment Ltd., Tel-Aviv Stock Exchange Ltd., Ihud Insurance Agencies Ltd., mem. Advisory Council, Bank of Israel, Board Bank Leumi (U.K.) Ltd. *Publications:* various articles on financial and currency problems. *Leisure interests:* economic history, history of art, archaeology. *Address:* 23 Benjamin Street, 52 512 Ramat-Gan, Israel. *Telephone:* 721904.

LEHMANN, Inge; Danish seismologist; b. 13 May 1888, Copenhagen; d. of Prof. Alfred G. L. Lehmann and Ida Tørsleff; ed. Univ. of Copenhagen; State geodesist; Chief Seismological Dept., Danish Geodetic Inst. 1928-53; Assoc. Royal Astronomical Soc. 1957; Foreign mem. Royal Soc. 1969; Hon. mem. European Geophysical Soc. 1973, Seismological Soc. America 1973; Hon. F.R.S.E.; Hon. Sc.D. (Columbia), Dr.Phil. h.c. (Copenhagen); Harry Oscar Wood Award in Seismology 1960, Emil Wiechert Medal, Deutsche Geophysikalische Gesellschaft 1964, Gold Medal, Royal Danish Acad. of Sciences and Letters 1965, William Bowie Medal of American Geophysical Union 1971, Medal of Seismological Soc. America 1978. *Publications:* 57 Seismological publications in various journals. *Leisure interests:* gardening, mountain walks. *Address:* Kastelsvej 26, 2100 Copenhagen, Denmark. *Telephone:* DK 01 380408.

LEHMANN, John Frederick, C.B.E., F.R.S.L.; British author and editor; b. 2 June 1907, Bourne End; s. of Rudolph Chambers Lehmann and Alice Marie Davis; ed. Eton and Trinity Coll., Cambridge; Founder and Ed. of New Writing (including The Penguin New Writing and New Writing and Daylight) and of Orpheus; Partner and Gen. Man. The Hogarth Press 1938-46; Man. Dir. John Lehmann Ltd. 1946-53; Advisory Ed. The Geographical Magazine 1940-45; Ed. New Soundings (BBC) 1952-53; Ed. The London Magazine 1954-61; Pres. Alliance Française in Great Britain 1954-63; Pres. Royal Literary Fund 1966-76; Visiting Prof. (English) Univ. of Texas at Austin 1970-71, State Univ. of Calif. at San Diego 1970-72, Univ. of Calif. at Berkeley 1974, Emory Univ. (Atlanta, Ga.) 1977; William Foyle Poetry Prize 1964; Grand Officier Etoile Noire, Officier Légion d'honneur, Officier Ordre des Arts et des Lettres, Commdr. Order of George I (Greece) Queen's Silver Jubilee Medal 1977. *Publications:* A Garden Revisited 1931, Evil ■ Abroad 1938, Down River 1939, New Writing in Europe 1940, The Age of the Dragon 1951, The Open Night 1952, The Whispering Gallery (autobiography) 1955, I Am My Brother (autobiography 2) 1960, Ancestors and Friends 1962, Collected Poems 1963, Christ the Hunter 1965, The Ample Proposition (autobiography) 1966, A Nest of Tigers 1968, In My Own Time (U.S.A. 1969), Holborn 1970, The Reader at Night (poems) 1974, Virginia Woolf and Her World 1975, In the Purely Pagan Sense (novel) 1976, Edward Lear and His World 1977, Thrown to the Woolfs 1978 and editor of many anthologies and symposia. *Leisure interests:* reading, swimming, gardening. *Address:* 85 Cornwall Gardens, London, S.W.7, England.

LEHNARTZ, Emil Friedrich Robert, C.B.E., M.D.; Emer. German university professor; b. 29 June 1898, Remscheid; s. of Emil Lehnartz and Maria Weisenfeld; m. 1st Margarete Zimmermann 1927, 2nd Eva von Königslöw 1955; one s. three d.; ed. Cologne, Frankfurt a.M., and Freiburg i.Br.; Asst. Physiological-Chemical Inst., Frankfurt a.M. 1926; Reader of Physiology 1929, Extra Prof. 1935; Chief Asst. Physiological Inst., Göttingen 1935; Dir. of Physiological-Chemical Inst., Münster i.W. 1939-66, Prof. 1946; Rector Münster Univ. 1946-49; Chair. Deutsch-Englische Gesellschaft 1949-69; Pres. Deutscher Akademischer Austauschdienst 1959-68; mem. New York Acad. of Science, Dr. Phil. h.c. and Dr. h.c.; Grosses Bundesverdienstkreuz mit Stern, Officier Légion d'honneur. *Publications:* Die chemischen Vorgänge bei der Muskelkontraktion 1933, Lehrbuch der Physiologie für Studierende der Zahnheilkunde (with E. Fischer) 1934, Einführung in die chemische physiologie 1959; collaborated in Ernährungslehre (Editor W. Stepp) 1939, Handbuch der Biologie (Editor L. v. Bertalanffy) and Die Ernährung (Editors K. Lang and R. Schön); Joint Editor; Physiologische Chemie (with B. Flaschenträger), Hoppe-Seyler/Thierfelder Handbuch der Physiologischen und Pathologisch-Chemischen Analyse (10th edn., with K. Lang and G. Siebert), Klinische Wochenschrift (co-editor), Medizinische Klinik (co-editor). *Address:* Maldmedyweg 11, 44 Münster i.W., Federal Republic of Germany. *Telephone:* 81233.

LEHNINGER, Albert Lester, PH.D.; American professor of physiological chemistry; b. 17 Feb. 1917; s. of Albert O. and Wally S. Lehninger; m. Janet Wilson 1942; one s. one d.; ed. Wesleyan Univ. and Univ. of Wis.; Instructor, Dept. of Physiological Chem., Univ. of Wis. 1942-45; Asst. Prof. Dept. of Biochem., Univ. of Chicago 1945-49, Assoc. Prof. 1949-52; DeLamar Prof. and Dir., Dept. of Physiological Chem., Johns Hopkins School of Medicine 1952-78, Univ. Prof. of Medical Sciences 1978-; mem. Nat. Acad. of Sciences 1956, American Phil. Soc. 1972; Inst. of Medicine, Nat. Acad. of Sciences 1974-79, Presidents' Panel on Biomedial Research 1975-76, Deutsche Akad. der Naturforscher Leopoldina 1976-; Hon. D.Sc. (Wesleyan and Acadia Univs., Memorial Univ. of Newfoundland, Notre Dame, Louvain and Paris), Hon. M.D. (Padua); Paul Lewis Award in Enzyme Chem. 1948, Distinguished Service Award, Univ. of Chicago 1965, Remsen Award, American Chem. Soc. 1969, Fifth Jubilee Lecturer, Biochemical Soc. 1970, La Madonnina Award, City of Milan, Italy. *Publications:* The Mitochondrion 1964, Bioenergetics 1965 (2nd edn. 1971), Biochemistry (textbook) 1970 (2nd edn. 1975), Short Course in Biochemistry 1973, and over 250 papers on biochemistry of energy transformation in cells, particularly in the mitochondrion 1942-. *Leisure interests:* sailing, golf. *Address:* Department of Physiological Chemistry, The Johns Hopkins School of Medicine, 725 North Wolfe Street, Baltimore, Md. 21205, U.S.A. *Telephone:* 301-955-3110.

LEHRMAN, Daniel Sanford, PH.D.; American pyschobiologist; b. 1 June 1919, New York City; s. of Philip Lehrman and Sophie Rubenstein; m. Dorothy Dinnerstein 1962; three d.; ed. City Coll. of New York and New York Univ.; served U.S.A.F. 1941-45; Assoc. Psychologist, Haskins Labs., New York 1945-47; Lecturer in Psychology, City Coll. of New York 1947-50; Instructor in Psychology, New York Univ. 1950; Asst. Prof., Rutgers Univ. 1950-56, Assoc. Prof. 1956-58, Prof. of Psychology 1958-, Dir. Inst. of Animal Behaviour 1959-; Visiting Prof., Yale Univ. 1957; mem. Nat. Acad. of Sciences, Soc. of Experimental Psychologists, American Ornithologists Union, American Soc. of Zoologists, Soc. for Experimental Biology and Medicine, Soc. for Neuroscience, Int. Brain Research Org.; Fellow, American Psychol. Assn.; non-Res. Fellow, The Salk Inst.; Howard Crosby Warren Medal, Soc. of Experimental Psychologists. *Publications:* Numerous articles in scientific journals, contributions to encyclopedias and symposia. *Leisure interests:* bird watching, sailing, cooking. *Address:* Institute of Animal Behaviour, Rutgers University, Newark N.J. 07102, U.S.A. *Telephone:* 201-648 5225.

LEIBHOLZ, Gerhard, DR. JURIS., DR. PHIL.; German scholar; b. 15 Nov. 1901, Berlin, s. of Councillor W. Leibholz and Régina (née Netter); m. Sabine Bonhoeffer 1926; two d.; ed. Berlin and Heidelberg; Asst. Judge 1926, Adviser Inst. for Public Law, Berlin 1926; Lecturer in Constitutional and Int. Law, Berlin 1928; Judge 1928; Prof. of Public Law and Political Science, Greifswald 1929-31, Göttingen 1931-35, Prof. Emer. 1936-58; Fellowship World Council of Churches and Magdalen Coll., Oxford 1939-48; Prof. Coll. of Europe, Bruges 1953-63, Göttingen 1958-, Assoc. Justice Fed. Constitutional Court (Germany) 1951-71; Editor Jahrbuch des öffentlichen Rechts 1951-; Grosses Bundesverdienstkreuz mit Stern und Schulterband. *Publications:* Fichte und der demokratische Gedanke 1921, Zu den Problemen des faschistischen Verfassungrechts 1928, Die Auflösung der liberalen Demokratie und das autoritäre Staatsbild 1933, Il Secolo XIX e lo Stato totalitario 1938, Syndicalisme, Corporatisme et Etat Corporatif 1939, Christianity, Politics and Power 1942, Macht und Ideologie im 20. Jahrhundert 1949, Staat und Gesellschaft in England 1950, Der Strukturwandel der Demokratie 1952, Demokratie und Rechtsstaat 1957, Volk, Nation, Staat im 20. Jahrhundert 1958, Strukturprobleme der modernen Demokratie 1958, Die Gleichheit vor dem Gesetz, Das Wesen der Repräsentation 1973, Verfassungsrecht und Arbeitsrecht 1960, Verbot des Ermessensmissbrauches im Völkerrecht 1964, Conceptos fundamentales de la Política 1964, Politics and Law 1965, Kommentar zum Bonner Grundgesetz 1966 (with Dr. Rinck), Stellung der Industrie- und Handelskammern 1967, Demokratie und Erziehung 1967, Kommentar zum Bundesverfassungsgerichtsgesetz (with R. Rupprecht) 1968 (appendix 1971), Problemas Fundamentales de la Democracia Moderna 1971, Verfassungsrecht-Verfassungsstaat 1972 (Korean and Japanese trans), Korrespondenz zwischen George Bell (Bishop of Chichester) und Gerhard Leibholz (1939-51) 1974, R. Smend 1977; and about 200 articles in periodicals in more than 20 countries (see Bibliography by F. Schneider, 1972). *Address:* 34 Göttingen, Herzberger Landstrasse 57, Federal Republic of Germany. *Telephone:* Göttingen 57040.

LEIBKUTSCH, Hans, DR.JUR.; German banker; b. 30 March 1924; mem. Man. Board, Deutsche Bank AG; Chair. Supervisory Board, AKA Ausfuhr-Kredit GmbH, Coutinho, Caro & Co. KGaA, ESTEL NV Hoesch-Hoogovens, Netherlands, Hoesch Werke AG, Mobil Oil AG in Deutschland, Phoenix Gummiwerke AG, Hoesch AG, O & K Orenstein & Koppel AG; Vice-Chair. of Supervisory Board, Privatdiskont-AG, Frankfurt a.M.; mem. Supervisory Board, Hapag-Lloyd AG, Cassella AG, Preussag AG, AEG-Telefunken; mem. Man. Board, European-American Banking Corpn., New York, N.Y., European-American Bank & Trust Co., New York, N.Y., Banque Européenne de Crédit, Brussels. *Address:* Deutsche Bank AG, Grosse Gallusstrasse 10-14, 6000 Frankfurt am Main, Federal Republic of Germany.

LEIDING, Rudolf Wilhelm Karl; German motor executive; b. 4 Sept. 1914, Busch, Kr. Osterburg/Altmark; ed. engineering school; joined Volkswagenwerk, Wolfsburg after Second World War, Man. VW Plant, Kassel 1958, also Dir. Volkswagenwerk AG; Man. and Chair. Man. Board, Auto Union G.m.b.H. (subsidiary of VW Group) 1965-68; Head, VW do Brasil (Brazilian subsidiary) 1968-71; Chair. Man. Board, AUDI NSU Auto Union AG April-Sept. 1971; Chair. Man. Board, Volkswagenwerk AG 1971-74; Orden de Merito de Trabalho (Brazil) 1973. *Address:* Volkswagenwerk AG, 3180 Wolfsburg, Federal Republic of Germany.

LEIGH GUZMÁN, Gen. Gustavo; Chilean air force officer; b. 19 Sept. 1920; m. Gabriela García Powdich; three s. one d.; ed. Liceo José Victorino Lastarria, Mil. Acad., Nat. Defence Acad.; postgraduate studies specializing in Supply and Maintenance, Command and Staff; Academic Instructor of Operations and Logistics; Deputy Commdr. Group 11 1953; Commdr. Group 10 1961; Commdr. of Supply Wing 1963; Air Attaché to U.S.A. 1964; Sec.-Gen. Chilean Air Force 1966; Dir. Aviation School 1968; Chief of Gen. Staff 1971-78; C.-in-C. of Chilean Air Force; mem. Mil. Junta 1973-78; many mil. decorations including Grand Mil. Merit Cross, Mil. Star, and Nat. Order of Merit (Paraguay), Legion of Merit (U.S.A.), Grand Cross for Aeronautical Merit (Spain), and others. *Address:* Junta Militar de Gobierno, Santiago, Chile.

LEIGHTON, Robert Benjamin, PH.D.; American physicist; b. 10 Sept. 1919, Detroit, Mich.; s. of George B. Leighton and Olga O. Homrig; m. Alice M. Winger 1943; two s. one d.; ed. Calif. Inst. of Technology; Research Fellow, Calif. Inst. of Tech. 1947-49, Asst. Prof. 1949-53, Assoc. Prof. 1953-59, Prof. of Physics 1959-, Chair. Physics, Math. and Astronomy Div. 1970-75, also mem. of staff of Hale Observations; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Physical Soc., American Astronomical Soc.; A.I.A.A. Award 1967. *Publications:* Principles of Modern Physics 1959, Feynman Lectures on Physics (co-author) 1963; 36 articles in professional journals. *Leisure interests:* astronomy, photography, optics, chamber music, reading, hiking. *Address:* California Institute of Technology, Pasadena, Calif. 91125, U.S.A.

LEIGH-PEMBERTON, Robert, M.A., D.L.; British barrister, landowner and banker; b. 5 Jan. 1927; s. of Robert Douglas Leigh-Pemberton, M.B.E., M.C., and Helen Isabel Payne-Gallwey; m. Rosemary Davina Forbes 1953; five s.; ed. St. Peter's Court, Broadstairs, Eton Coll., Trinity Coll., Oxford; Oppidan Scholar, Eton 1940-45; Grenadier Guards 1945-48; practised at the Bar 1953-60; Dir. Univ. Life Assurance Soc. 1968-78; Dir. Birmid-Qualcast Ltd., Deputy Chair. 1970-75, Chair. 1975-77; Dir. Redland Ltd. 1972; Dir. Nat. Westminster Bank Ltd. 1972-74, Deputy Chair. 1974-77, Chair. 1977-; mem. Kent County Council 1961-77, leader 1964-69, Chair. 1972-75; J.P. for Kent 1961-76; Deputy Lieut. for Kent 1969, Vice Lord Lieut. 1972-; Gov. Wye Coll., London Univ. 1968-77; Deputy Pro-Chancellor of Kent Univ. 1969-78, Pro-Chancellor 1978-; mem. Medway Ports Authority 1972-77, South East Econ. Planning Council 1971-74, Prime Minister's Cttee. on Standards in Local Govt. 1973-74, Cttee. of Enquiry into Teachers' Pay 1974, Cttee. to review Police Conditions of Service 1977-; Dir. Equitable Life Assurance Soc. 1978-. *Leisure interests:* English country life, skiing. *Address:* National Westminster Bank Ltd., 41 Lothbury, London, E.C.2 (Office); Torry Hill, Sittingbourne, Kent; and 66 Westminster Gardens, Marsham Street, London, S.W.1, England (Homes). *Telephone:* 01-606 6060 (Office); Milstead 258 (Kent); 01-834 1533 (London).

LEIN, Voldemar Petrovich; Soviet politician; b. 7 July 1920, Bugrysh, Udmurtian A.S.S.R.; ed. Moscow Tech. Inst. of Food Industry and Higher Party School of CPSU Central Cttee.; Soviet Army 1942-43; Section Chief, Dept. of Confectionery Industry, Food Ministry of Latvian S.S.R. 1945-46; Engineer, "Laima" confectionery factory, Riga 1946-49; Party work, Riga 1949-; Higher Party School of CPSU Cen. Cttee. 1956-58; Head, Main Dept. of Food Industry, Latvian Council of Nat. Econ. 1958-60; Second Sec. Riga Town Cttee. of CP of Latvia 1960-61, Sec. Cen. Cttee. 1961-70; Deputy to U.S.S.R. Supreme Soviet 1966-; U.S.S.R. Minister of Food Industry 1970-; Cand. mem. Cen. Cttee. CPSU 1971-76, mem. 1976-; Order of Lenin (three times), Red Banner of Labour (twice), etc. *Address:* Ministry of Food Industry, 29 Building 4, Prospekt Kalinina, Moscow, U.S.S.R.

LEINSDORF, Erich; American musician; b. 4 Feb. 1912, Vienna, Austria; s. of Ludwig Julius and Charlotte (Loebl) Leinsdorf; m. 1st Anne Frohknecht 1939 (divorced 1968), 2nd Vera Graf 1968; three s. two d.; ed. Univ. of Vienna and State Acad. of Music, Vienna; Asst. Conductor, Salzburg Festival 1934-37; U.S.A. 1937-; Conductor, Metropolitan Opera 1937-43; Music Dir. and Conductor Cleveland Orchestra 1943; Music Dir. Philharmonic Orchestra, Rochester 1947-56; Dir. New York City Center Opera 1956, Metropolitan Opera 1957-62; Music Consultant, Metropolitan Opera Management 1958-62; Music Dir. Boston Symphony Orchestra 1962-69; Dir. Berkshire Music Center, Festival 1963-69; fmr. mem. Exec. Cttee. John F. Kennedy Center for the Performing Arts, Exec. Cttee. Corpn. for Public Broadcasting, Mass. Council on the Arts and Humanities; Guest Conductor (since 1969) Teatro Colón, Buenos Aires, Metropolitan Opera, New York, Berlin Philharmonic, Chicago Symphony, Cleveland, Concertgebouw Amsterdam, New York Philharmonic, London Symphony, London Philharmonic, New Philharmonia, BBC Symphony Orchestras and Orchestre de Paris; Bayreuth, Netherlands, Edinburgh and Prague Festivals; Fellow, American Acad. of Arts and Sciences; Hon. music degrees (Rutgers and Baldwin-Wallace, Columbia and Williams Colls.). *Publication:* Cadenza—A Musical Career (autobiography) 1976. *Address:* 209 East 56th Street, New York, N.Y. 10022, U.S.A.

LEITE, Antônio Dias, Jr.; Brazilian engineer and politician; b. 29 Jan. 1920, Rio de Janeiro; s. of Antônio Dias Leite and Georgeta Lahmeyer Leite; m. Manira Alcure Dias Leite 1944; two s. three d.; ed. Universidade Federal do Rio de Janeiro; Prof. of Econ., Univ. Federal do Rio de Janeiro; Under-Sec. for Econ. Affairs, Ministry of Finance 1963; Pres. Companhia Vale do Rio Doce 1967; Minister of Mines and Power 1969-74; Economy Eng. Consultant 1975. *Publications:* Caminhos do Desenvolvimento 1966, Politica Mineral e Energética 1973. *Address:* Universidade Federal do Rio de Janeiro, Ilha da Cidade Universitária, 250 Rio de Janeiro, RJ, Brazil.

LEITO, Dr. B. M.; Netherlands Antilles economist and administrator; b. 6 Feb. 1923, Curaçao; m. 1951; two s. two d.; ed. Curaçao and Netherlands; Jr. Officer Netherlands Antilles Dept. of Social and Econ. Affairs 1951; Officer Gen. Affairs Div., Curaçao 1952, Finance Div. 1953; [illegible] Curaçao Island Council 1955-63; mem. Netherlands Antilles Parl. 1959-62; Head of Finance Div., Curaçao 1961-65; Dir. Netherlands Antilles Dept. of Finance 1965-70; Pres. Supervisory Dirs. Bank of Netherlands Antilles 1965-70; Chair. Socio-Econ. Council of Netherlands Antilles 1967-70; Acting Lieut.-Gov. of Curaçao 1968-70; Acting Gov. of Netherlands Antilles 1969-70, Gov. 1970-; several foreign decorations. *Address:* Governor's House, Fort Amsterdam No. 1, Willemstad, Curaçao, Netherlands Antilles.

LEJCZAK, Włodzimierz; Polish politician; b. 15 June 1924, Cracow; s. of Tadeusz and Elżbieta Lejczak; m. Halina Lejczak 1952; one s. one d.; ed. Acad. of Mining and Metallurgy, Cracow; worked for Zabrze Coal Industry Assen. 1948-65, Dir. Mikulczyce Colliery 1952-60, Chief Engineer 1961-65; Chair. Coal Mining Dept., PUWP Municipal Cttee. Zabrze 1961-65; Vice-Pres. Supreme Mining Office 1965-68; State Plenipotentiary for Mining Damages Affairs 1967-68, 1976-77; Under-Sec. of State, Ministry of Heavy Industry 1968-70; Minister of Heavy Industry 1970-76; Pres. Supreme Mining Office 1976-77; Minister of Mining 1977-; mem. Cen. Cttee. PUWP 1971-75, mem. Cen. Revisional Cttee. Dec. 1975-; Commdr.'s and Officer's Cross of Order of Polonia Restituta, Order of Banner of Labour 1st Class 1976, Gold Cross of Merit 1955 and other decorations. *Address:* Ministerstwo Górnictwa, ul. Krucza 36, 00-921 Warsaw, Poland. *Telephone:* 28-99-60.

LEJEUNE, Jérôme Jean Louis Marie, M.D., PH.D.; French geneticist; b. 13 June 1926, Montrouge; s. of Pierre Ulysse Lejeune and Marcelle Lermat; m. Birtne Bringsted 1959; two s. three d.; ed. Coll. Stanislas, Paris, Faculty of Medicine and Faculty of Sciences, Paris; C.N.R.S. 1952-63, Dir. of Research 1963-; Prof. of Fundamental Genetics, Univ. René Descartes 1964-; mem. Pontifical Acad. of Sciences; Kennedy Prize. *Publications:* Discovery of the extra chromosome in Trisomy 21 (mongolism), research on human chromosomes, research on mental deficiency. *Leisure interest:* knowledge. *Address:* Institut de Progénèse, 15 rue de l'Ecole de Médecine, 75006 Paris (Office); 31 rue Galande, 75005 Paris, France (Home). *Telephone:* 329-21-77, Ext. 293 (Office); 633-3182 (Home).

LEJEUNE, Jules Nicolas Gaston Jean-Marie, D. ÈS SC., D. ÈS SC. COM.; Belgian university professor; b. 1910; ed. Univs. of Paris and Liège and London School of Economics; deputy Prof. of Statistics, Univ. of Liège 1936, Prof. 1942; Pres. and Prof. of Statistics, Ecole Supérieure des sciences commerciales; Pres. Admin. Council of Review of Economic Sciences, Liège; mem. Int. Inst. of Statistics; Vice-Pres. Belgian Statistical Soc., Nat. Bookkeeping Soc.; mem. Belgian Higher Cttee. for Statistics, Comm. on Price Indices and Nat. Revenue Comm. Scientific Council of Inst. for Econ. and Social Study of the Middle Class, New York Acad. of Sciences, American Statistical Assen. (Washington), Paris Statistical Soc.; Pres. Belgian UNA; Chevalier Légion d'honneur, Civic Medal 1st Class, Officier Ordre de Léopold, Commdr. de l'Ordre de la Couronne; Grand Prix Scientifique de la ville de Paris 1971. *Publications:* Les méthodes de construction des index numbers 1935, Cours de statistique professé à l'Université de Liège 1947, 1961. *Address:* Institut de Mathématique, 15 avenue des Tilleuls, Liège, Belgium.

LEJEUNE, Michael L.; American (b. British) international finance official; b. 22 March 1918, Manchester; s. of F. Arnold and Gladys (Brown) Lejeune; m. Margaret Werden Wilson 1947; two s. one d.; ed. Cate School, Carpinteria, Calif., Yale Univ., and Yale Univ. Graduate School; Teacher St. Paul's School, Concord, New Hampshire 1941; Volunteer in King's Royal Rifle Corps in British Army 1942-46; IBRD 1946-, Personnel Officer 1948-50, Asst. to Loan Dir. and Sec. Staff Loan Cttee., Loan Dept. 1950-52, Chief of Div., Europe, Africa and Australasia Dept. 1952-57, Asst. Dir. of Operations, Europe, Africa and Australasia 1957-63, Asst. Dir. of Operations, Far East 1963-64; Dir. of Admin., IBRD, IDA and IFC 1964-67, Dir. Middle East and North Africa Dept. 1967-68; Dir. Europe, Middle East and North Africa Dept. 1968-69; Dir. Eastern Africa Dept. 1970-74, Exec. Sec. Consultative Group on Int. Agric. Research 1974-. *Address:* International Bank for Reconstruction and Development (World Bank), 1818 H Street, N.W., Washington, D.C. 20433 (Office); 626 Chain Bridge Road, McLean, Va. 22101, U.S.A. (Home). *Telephone:* (202) 393-6360 (Office); (703) 528-0292 (Home).

LEKAI, H.E. Cardinal László, S.T.D.; Hungarian ecclesiastic; b. 12 March 1910, Zala district; s. of Gyula Lung and Julianna Freiler; ed. Secondary School of Piarist Order at Nagykanizsa and Veszprém, Collegium Germano-Hungaricum in Rome; ordained R.C. priest 1934; Chaplain 1936; Lecturer in Theology at Veszprém Seminary 1937-44; Episcopal Sec. 1944-47, Episcopal Dir. 1956; Priest, also Dean, of Balatonlelle 1948-59; Priest of Zalaszentiván 1959-69, of Badacsonytomaj 1969-74; Titular Bishop of Girus Tarasii 1972; Apostolic Admin. of Diocese of Veszprém 1972; Apostolic Admin. of Archdiocese of Esztergom 1974-76, Archbishop of Esztergom and Primate of Hungary Feb. 1976-; cr. Cardinal, Titular Church of St. Teresa al Corso d'Italia in Rome April 1976. *Address:* Berényi Zs. utca 2, 2500 Esztergom, Hungary. *Telephone:* Esztergom 1.

LELOIR, Luis Federico; Argentine biochemical researcher; b. 6 Sept. 1906, Paris; [illegible] Amelie Zuherbuhler de Leloir; [illegible] d.; ed. Univ. of Buenos Aires; early career as research worker in U.K., Argentina, and U.S.A., Research at Inst. of Biology and Experimental Medicine, Buenos Aires 1946; Dir. Inst. of Biochemical Research, Campomar 1947-; Head, Dept. of Biochem., Univ. de Buenos Aires 1962-; Chair. Argentine Assen. for Advancement of Science 1958-59; mem. Directory, Nat. Research Council 1958-64; mem. Nat. Acad. of Medicine 1961; Foreign [illegible] Nat. Acad. of Sciences, U.S.A., American Acad. of Arts and Sciences, American Philosophical Soc., Royal Acad. (U.K.); Dr. h.c. (Paris, Granada, Córdoba); Nobel Prize for Chemistry 1970, and numerous other prizes. *Major research includes:* isolation of glucose diphosphate 1948, of uridine diphosphate glucose 1950, of uridine diphosphate acetylglucosamine 1953, mechanism of glycogen 1959, of starch biosynthesis 1960, isolation of adenosine nucleotides from corn grains 1964. *Address:* Instituto de Investigaciones Bioquímicas, 'Fundación Campomar', Obligado 2490, Buenos Aires, Argentina. *Telephone:* 76-2871.

LELONG, Pierre Alexandre; French politician and administrative official; b. 22 May 1931, Paris; s. of Prof. Marcel Lelong; m. Catherine Demargne 1958; four s. one d.; ed. Coll. Stanislas, Paris, Univ. of Paris and Ecole Nat. d'Administration; Ministry of Finance and Econ. Affairs 1958-62; Econ. Adviser to Prime Minister Pompidou 1962-67; Gen. Man. Fonds d'Orientation et de Régularisation des Marchés Agricoles (FORMA) 1967-68; M.P. for Finistère 1968-74; Sec. of State for Posts and Telecommunications 1974-75; Judge, Court of Accounts 1975-77; mem. European Court of Auditors 1977-. *Leisure interests:* sea fishing, hunting. *Address:* 92 boulevard Raspail, 75006 Paris; Keremma, 29255 Tréflez, Finistère, France; 29 rue Aldringen, Luxembourg. *Telephone:* 222-93-32 (Paris); 98-61-41-94 (Tréflez); 47-731 (Luxembourg).

LELOUCH, Claude; French film director; b. 30 Oct. 1937, Paris; Pres. and Dir.-Gen. Société Les Films 13, 1966-; *films directed include:* l'amour des si..., La femme-spectacle, Une fille et des fusils, Les grands moments, Pour un maillot jaune, Un homme et [illegible] femme, (Palme d'or, Cannes 1966, Acad. Award 1966), Vivre pour vivre, Treize jours en France, La vie, l'amour, la mort, Un homme qui me plaît, Le Voyou, Smic, Smac, Smoc, co-dir. Visions of Eight 1973, L'Aventure c'est l'aventure, La bonne année 1973, (producer, dir., author) Toute une vie 1974, Mariage 1974, Le chat et la souris 1975, Le bon et les méchants 1975, Rendez-vous 1976, Si c'était à refaire 1976, Un autre homme, [illegible] autre chance 1977, Robert et Robert 1978, A [illegible] deux 1979. *Address:* 15 avenue Hoche, 75008 Paris, France.

LEMAIGNEN, Robert; French businessman; b. 15 March 1893, Blois; m. Yvonne de Nervo 1919; four s.; ed. Ecole Militaire de Saint-Cyr; [illegible] service 1914-18; Pres. Soc. commerciale d'affrètements et de combustibles 1940-58; fmr. Man. Cie. de Mokta el Hadid, Tharsis Sulphur Co., Cie. Salins du Midi et de Djibouti and of other commercial and industrial enterprises in North and Cen. Africa; Pres. Cie. Optorg, Union Financière Internationale pour le Développement de l'Afrique, Société Marocaine Métallurgique; fmr. rep. [illegible] territories on the council of Air France; fmr. Pres. Cttee. of French Africa, Int. Chamber of Commerce and Hon. Pres. 1958, Exec. Cttee. as Pres. of the Budget; fmr. Pres. Comm. of Economic Co-operation, fmr. Vice-Pres. of the Patronat Français; fmr. Pres. Cttee. France Actuelle; [illegible] EEC Comm. 1958-61; Pres. Groupe d'Outre-mer; Pres. Acad. of Colonial Sci-

ences; Commdr. Légion d'honneur, Croix de guerre, Médaille de la Résistance, and many foreign decorations. *Publication:* L'Europe ■■ berceau 1964. *Leisure interests:* farming, shooting, tennis. *Address:* Cie. Optorg, 5 Rue Bellini, Puteaux; 22 avenue Friedland, 75008 Paris, France. *Telephone:* CAR 2143 (Office); 722-02-50 (Home).

LEMAN, Paul H., O.C., A.B., LL.L.; Canadian business executive; b. 6 Aug. 1915, Pointe Claire, Quebec; s. of J.B. Beaudry Leman and Caroline Beique; m. Jeannine Prud'homme 1939; two s. three d.; ed. Collège Sainte-Marie, Univ. of Montreal and Harvard Graduate School of Business Admin.; admitted to Quebec Bar 1937; joined Aluminum Co. of Canada Ltd. 1938, Asst. Sec. 1943, Treas. 1949, Vice-Pres. 1952, Dir. 1963, Exec. Vice-Pres. 1964, Pres. 1969-75, Chair. 1975-; Treas. Saguenay Power Co. Ltd. 1945; Dir. Alcan Aluminium Ltd. 1968, Exec. Vice-Pres. 1969, Pres. 1972-77, Vice-Chair. Oct. 1977-; Dir. Export Devt. Corpn. 1969-74; Dir. C. D. Howe Research Inst., Crédit Foncier Franco-Canadien, Bell Canada; mem. Royal Comm. on Banking and Finance 1962-64. *Leisure interests:* golf, bridge. *Address:* Alcan Aluminium Ltd., 1 Place Ville Marie, Montreal, H3C 3H2 (Office); 445 St. Joseph Boulevard W., Outremont, Quebec, Canada H2V 2PB (Home). *Telephone:* 514-877-3306 (Office).

LEMAY, Gen. Curtis E.; American air force officer (retd.); b. 15 Nov. 1906, Columbus, Ohio; s. of Erving LeMay; m. Helen Estelle Maitland 1934; one d.; ed. Ohio State Univ.; held various mil. posts until outbreak of Second World War; in command of 305th Bombardment Group in England 1942; Commdg. Gen. Third Bombardment Div. 1943-44; transferred to Pacific theatre of war in command 20th Bomber Command 1944-45; Commdr. of the Mariana-based 21st Bomber Command 1945; Deputy Chief of Air Staff Research and Devt. 1945-47; Commdr. U.S.A.F. in Europe 1947-48; C.-in-C. Strategic Air Command 1948-57; Vice-Chief of Staff U.S.A.F. 1957-61, Chief of Staff 1961-64; American Ind. Party cand. for Vice-Pres. of U.S.A. 1968; several hon. degrees; Distinguished Service Cross, Distinguished Service Medal with three Oak Leaf Clusters, Silver Star, Distinguished Flying Cross with two Oak Leaf Clusters, Air Medal with three Oak Leaf Clusters, Medal for Humane Action and the Mackay Trophy, etc.; foreign decorations: British D.F.C., Commdr. Légion d'honneur and Croix de guerre with Palm Leaf (France), Belgian Croix de guerre with Palm Leaf, Brazilian Order of the Southern Cross, Commdr. Moroccan Order of the Ouissam Alaouite Chérifien, Russian Order of Patriotic War, Argentine Order of Aeronautical Merit. *Leisure interests:* hunting, shooting. *Address:* 773 Stradella Road, Los Angeles, Calif. 90024, U.S.A.

LEME, Hugo de Almeida; Brazilian agricultural specialist; b. 1917; ed. Escola Superior de Agricultura Luiz de Queiroz; Assoc. Prof., Escola Superior de Agricultura Luiz de Queiroz, Piracicaba, (Univ. de São Paulo) 1939-40, Prof. 1940, Full Prof. 1944, 1946-, Vice-Dir. 1958-60, Dir. 1960-64; Minister of Agric. 1964-66; mem. Council for Agric. Reform, State of São Paulo; has attended and organized numerous confs.; Ford Motor Company Prize for work on the mechanization of agric. 1961. *Address:* c/o Ministério da Agricultura, Esplanada dos Ministérios, Bloco 8, Brasília, D.F., Brazil.

LEMELIN, Roger; Canadian writer and publisher; b. 7 April 1919, Quebec City; s. of Joseph Lemelin and Florida Dumontier; m. Valéda Lavigueur 1945; three s. two d.; Guggenheim Fellowship 1946, Rockefeller Fellowship 1947; journalist Time, Life, Fortune magazines 1948-52; Pres. and Publr. La Presse daily 1972-; mem. Royal Soc. of Canada 1949; Foreign mem. Acad. Goncourt 1974; Prix David 1946, Canadian News Hall of Fame 1978. *Publications:* novels: Au pied de la pente douce 1944, Les Plouffe 1948, Pierre le magnifique 1952; short stories: Fantaisie sur les péchés capitaux 1949. *Leisure interests:* golf, fishing, reading, chess, travel. *Address:* La Presse, 7 St. James Street, Montreal, Quebec H2Y 1K9 (Office); 4753 St. Felix Street, Cap Rouge, Quebec G0A 1KO, Canada (Home). *Telephone:* (514) 285-6802 (Office); (418) 872-5114 (Home).

LEMIEUX, Raymond Urgel, PH.D., F.R.S. ; Canadian chemist; b. 16 June 1920, Lac La Biche, Alberta; s. of Octave Lemieux; m. Virginia Marie McConaghie 1948; one s. five d.; ed. Univ. of Alberta, Edmonton, and McGill Univ., Montreal; Research Fellow, Ohio State Univ. 1947; Asst. Prof., Univ. of Saskatchewan 1948-49; Senior Research Officer, Nat. Research Council 1949-54; Prof. Univ. of Ottawa 1954-61; Prof. of Organic Chem., Univ. of Alberta 1961-; Fellow, Chemical Inst. of Canada 1953, Royal Society of Canada 1955, Royal Society (London) 1967; Hon. D.Sc. (New Brunswick) 1967, (Laval) 1970, (Provence, France) 1972, (Ottawa) 1975; Chemical Inst. of Canada Medal 1964, C. S. Hudson Award, American Chemical Soc. 1966, Officer Order of Canada 1968, Haworth Medal, Chemical Soc. of England 1978. *Publications:* over 100 research papers mostly appearing in Canadian Journal of Chemistry. *Leisure interests:* golf, curling, fishing. *Address:* Department of Chemistry, University of Alberta, Edmonton, Alberta T6G 2G2, Canada. *Telephone:* (403) 432-3599.

LEMKE (VON SOLTENITZ), Helmut, DR. IUR.; German lawyer and politician; b. 29 Sept. 1907; ed. Univs. of Kiel, Tübingen and Heidelberg; Naval officer in Second World War; Public Prosecutor; Mayor of Eckernförde, Schleswig, Lübeck; Barrister at Law; Minister of Educ., Schleswig-Holstein 1954-56, Minister of Interior 1955-63; Pres. German Fed. Council 1966-67 (as such for ■ time Acting Pres. Fed. Repub. of Germany); mem. State Diet 1955-; mem. Bundesrat 1954-71; Minister-Pres. of Schleswig-Holstein 1963-71; Pres. of State Parl., Schleswig-Holstein 1971-; Grand Cross of Fed. German Order of Merit and other decorations; mem. Landesvorstand, CDU. *Leisure interests:* sailing, hunting. *Address:* Landeshaus, Kiel, Schleswig-Holstein, Federal Republic of Germany. *Telephone:* 5961.

LEMMON, Jack; American actor; b. (as John Uler Lemmon III) 8 Feb. 1925, Boston; m. 1st Cynthia Boyd Stone 1950, one s.; m. 2nd Felicia Farr 1962, one d.; ed. Phillips Andover Acad., Harvard Univ.; actor, stage, radio and television 1948-; numerous Broadway appearances; Acad. Award 1956, 1974. *Films include:* It Should Happen to You 1953, Three for the Show 1953, Phffft 1954, My Sister Eileen 1955, Mister Roberts 1955, You Can't Run Away From It 1956, Fire Down Below 1957, Bell, Book and Candle 1958, It Happened to Jane 1958, Some Like it Hot 1959, The Apartment 1960, The Notorious Landlady 1962, Days of Wine and Roses 1962, Irma La Douce 1963, Under the Yum Yum Tree 1964, Good Neighbour Sam 1964, How to Murder Your Wife 1965, The Great Race 1965, The Fortune Cookie (British title Meet Whiplash Willie) 1966, Luv 1967, The Odd Couple 1968, The April Fools 1969, The Out-of-Towners 1969, Kotch (Dir. only) 1971, The War Between Men and Women 1972, Avanti 1972, Save The Tiger 1973, The Prisoner of Second Avenue 1974, The Front Page 1975, The Entertainer 1975, Alex and the Gypsy 1976, Airport 77 1977. *Address:* c/o Jalem Productions, 141 El Camino, Suite 201, Beverly Hills, Calif. 90212, U.S.A.

LEMNITZER, Gen. Lyman L.; American army officer (retd.); b. 29 Aug. 1899, Honesdale, Pa.; s. of William L. Lemnitzer and Hannah (Blockberger) Lemnitzer; m. Katherine Mead Tryon; one s. one d.; ed. U.S. Military Acad.; commissioned 1920; pupil Coast Artillery School 1920-21; served Fort Adams, R.I. 1921-23; served Philippines 1924-26; Instructor, U.S. Mil. Acad. 1926-30, 1934-35; pupil, Coast Artillery School 1930-31; served in Philippines 1931-34; pupil, Commd. and Gen. Staff School 1935-36: Instructor, Coast Artillery School 1936-39; pupil, Army War Coll. 1939-40; Bn. Commdr. 70th Coast Artillery 1940; served with War Dept. Gen. Staff 1941; Commdr. 34th A.A. Brigade 1942; served in Europe and North Africa 1942-45; with Joint Chiefs of Staff 1945-47; Deputy Commdt. Nat. War Coll. 1947-49; Asst. to Sec. of Defence 1948 (part-time) 1949-50 (full-time); pupil, Airborne Course Ft. Benning 1950; Commdr. 11th Airborne Div. 1951; 7th Infantry Div. (in Korea) 1951-52; Deputy Chief of Staff (Plans and Research) 1952-55; Commdr. U.S. Army Forces, Far East and Eighth U.S. Army April 1955; C.-in-C. Far East and UN Commands and Gov. of the Ryukyu Islands 1955-57; Vice-Chief of Staff, U.S. Army 1957-59, Chief of Staff 1959-60; Chair. Joint Chiefs of Staff 1960-62; C.-in-C. U.S. Forces in Europe 1962-69; Supreme Allied Commdr. in Europe (NATO) 1963-69; mem. Rockefeller Comm. on C.I.A. Jan.-May 1975; President's Foreign Intelligence Advisory Board 1976-77; D.S.M., Silver Star, Legion of Merit, Legion of Merit (Officer's Degree), C.B. (Great Britain), C.B.E., Grand Croix Légion d'honneur, Croix de guerre (with Palm), and numerous foreign decorations. *Leisure interests:* golf, photography, fishing. *Address:* 3286 Worthington Street, N.W., Washington, D.C. 20015, U.S.A. *Telephone:* 202-362-6611.

LE MOAL, Henri Jean Alain; French university rector (retd.); b. 21 Dec. 1912, Plozevet, Finistère; s. of Jean Le Moal and Catherine Le Guellec; m. Suzanne Allée 1937; one d.; ed. Lycée La Tour d'Auvergne, Quimper and Univ. of Rennes; Mil. service 1938-44; Asst., Faculty of Science, Univ. of Rennes 1945-47, Chef de Travaux 1947-53, Asst. Prof. 1953-57, Prof. of Gen. Chem. 1957, Dean 1958-60, Rector, Acad. of Rennes 1960-70, Prof. of Gen. Chem. 1970-; mem. of Admin. Council of the Association des Universités partiellement ou entièrement de langue française (AUPELF) 1961-70; Pres. Rotary Club of Rennes 1972-73; Vice-Pres. Commission de Développement Economique de Bretagne 1965-74; Deputy Mayor of Rennes 1977-; Hon. LL.D. (Exeter); Chevalier Légion d'honneur, Commdr. Ordre des Palmes académiques, Commdr. de l'Ordre National de la République de la Côte

d'Ivoire, Commdr. de l'Ordre du Mérite Sportif, Officier du Mérite pour la Recherche et l'Invention. *Publications:* (memoirs) Bulletin de la Société chimique de France; contributions to La Bretagne radicale, Le rotarien, Armor-Magazine, Ouest-France. *Leisure interests:* sea-fishing, bridge. *Address:* 4 rue A. de Musset, 35000 Rennes, France. *Telephone:* 36-18-22.

LEMUS, Lieut.-Col. José María; Salvadorian army officer and politician; b. 1911; ed. School and Acad. of Military Staff, San Salvador, and Military Staff School, Camp Lee, U.S.A.; Under-Sec. of Defence 1948-49; Minister of the Interior 1949-55; Pres. of the Repub. of El Salvador 1956-60, deposed Oct. 1960; Gran Cordón Orden del Libertador (Venezuela), Gran Cruz Orden del Mérito Civil (Spain). *Publications:* many military and political works, including Pensamiento Social de Don Bosco, Simón Bolívar, Símbolos Patrios, etc. *Address:* Guatemala City, Guatemala.

LENAERT, Henri; Belgian banker; b. 3 Jan. 1915, Louvain; ed. Catholic Univ. of Louvain; Dept. Supervision of Banking, Banking Comm. 1942; Banking Auditor 1946; Man. Banque Centrale du Congo Belge et du Ruanda-Urundi 1951, Liquidator 1961; Sec.-Gen. Man., Gen. Admin. Dept., EIB 1962-; Lecturer, Catholic Univ. of Louvain 1955-. *Address:* European Investment Bank, 2 Place de Metz, Luxembourg. *Telephone:* 43-50-11.

LENÁRT, Jozef; Czechoslovak politician; b. 3 April 1923, Lipt. Porúbka; ed. Party Coll. Moscow; [illegible] Czechoslovak underground movement, Second World War; took part in Slovak rising 1944; mem. CP of Czechoslovakia 1943-; mem. Cen. Cttee. CP of Slovakia 1950-53, 1957-66; Leading Sec. Bratislava Regional Cttee. CP of Slovakia 1956-58; mem. Cen. Cttee. CP of Czechoslovakia 1958-; Sec. Cen. Cttee. Slovak CP 1958-62; Chair. Slovak Nat. Council 1962-63; Prime Minister of Czechoslovakia 1963-68; Alt. mem. Presidium of Cen. Cttee. of Czechoslovak CP 1968-69; mem. of Cen. Cttee. Secr. 1968-75; Deputy to Nat. Assembly 1960-69; Sec. Cen. Cttee. of CP of Czechoslovakia 1968-70, mem. Presidium of Cen. Cttee. 1970-; Deputy to House of the People, Fed. Assembly 1969-; Chair. Econ. Comm. Cen. Cttee. CP of Czechoslovakia 1969-70; First Sec. and mem. Presidium and Secr. Cen. Cttee. CP of Slovakia 1970-; Deputy to Slovak Nat. Council 1971-; Chair. Cen. Cttee. Nat. Front of Slovak Socialist Repub. 1971-; Deputy Chair. and mem. Presidium Cen. Cttee. Nat. Front of C.S.S.R. 1971-; mem. Presidium, Fed. Assembly 1971-; Order of Slovak Nat. Uprising 1945, Order of 25th February 1949, Commdr. of People's Militia in Slovakia 1970-, Decoration for Merit in Construction 1958, Order of the Nile 1965, Order of the Red Banner 1970, Order of Victorious February 1973, Order of the Repub. 1973. *Address:* Central Committee CP of Slovakia, Hlboká 2, Bratislava, Czechoslovakia.

LENHARTZ, Rudolf, DIPL. ING.; German mining executive; b. 10 Feb. 1925, Bünde, Westphalia; ed. Bonn Univ. and Aachen Technical Univ.; Assessor des Bergfachs; Mine Supt. and Eng. Man. Rheinelbe Bergbau AG 1956-63, mem. Man. Board 1965-; Dir. of Mines, Carolinenglück-Graf Moltke Bergbau AG 1963, mem. Man. Board 1965-; Head of Production, Ruhrkohle AG 1969-70, Gen. Dir. of Mining Operations 1970-75; Chair. Man. Board Saarbergwerke AG 1976-; Pres. Supervisory and Advisory Board Saar-Ferngas AG, Saarland Raffinerie GmbH, Kokereigesellschaft Saar mbH; mem. Supervisory and Advisory Board Gesteins- und Tiefbau GmbH, Deutsche Bank Saar AG, Saar-Lothringische Kohleunion, Allianz-Versicherungs AG, DEMINEX GmbH, Ruhrgas AG; [illegible] Man. Board Gesamtverband des deutschen Steinkohlenbergbauverein, Wirtschaftsvereinigung Bergbau. *Address:* Saarbergwerke AG, D6600 Saarbrücken, Trierer Strasse 1, Postfach 1030, Federal Republic of Germanv. *Telephone:* (0681) 4051.

LENIHAN, Brian Joseph, B.A.; Irish politician; b. 17 Nov. 1930, Dundalk, Co. Louth; elder s. of Patrick J. Lenihan and Ann Scanlon; m. Ann Devine 1958; four s. one d.; ed. St. Mary's Coll. (Marist Brothers), Athlone, Univ. Coll., Dublin, and King's Inns, Dublin; called to the Bar 1952, mem. Roscommon County Council and Roscommon Vocational Educ. Cttee. 1955-61; mem. Consultative Assembly of Council of Europe, and of Legal, Political and Econ. Cttees. 1958-61; Parl. Sec. to Minister for Lands 1961-64; Minister for Justice 1964-68, of Educ. 1968-69, of Transport and Power 1969-72, for Foreign Affairs 1972-73, of Fisheries (portfolio name changed to Fisheries and Forestry July 1978-) July 1977-; mem. Seanad Éireann 1957-61, 1973-77, Dáil Éireann 1961-73, June 1977-; Pres. Eurocontrol 1969-70; mem. European Parl. 1973-77; Fianna Fáil. *Address:* 24 Park View, Castleknock, Co. Dublin, Ireland. *Telephone:* Dublin 383453.

LENNEP, Jonkheer Emile van, DR.JUR.; Netherlands lawyer and economist; b. 20 Jan. 1915, Amsterdam; s. of Jonkheer Louis Henri van Lennep and Catharina Hillegonda Enschedé; m. Alexa Alison Labberton 1941; two s. two d.; ed. Amsterdam. Univ.; Foreign Exchange Inst. 1941-45; Netherlands Bank 1945-48, 1950-51; Financial Counsellor to High Commr., Indonesia 1948-49; Head of Financial Dept. of Netherlands High Commr. in Indonesia 1949-50; Treas.-Gen. in Netherlands Ministry of Finance 1951-69; Sec.-Gen. OECD, Paris 1969-; Chair. Monetary Cttee. EEC 1958-69; Chair. Working Party No. 3, OECD 1961-69; Knight, Order of Netherlands Lion, Commdr. Order of Orange-Nassau, Grand Officier Ordre de la Couronne du Chêne (Luxembourg), Knight Commdr's. Cross (Star) of the Order of Merit of the Fed. Repub. of Germany, Grand Officer Order Léopold II (Belgium), Grand Officer Order of Merit (Italy), Commdr. Légion d'honneur. *Leisure interests:* music, sports. *Address:* 92 avenue Henri Martin, 75016 Paris, France. *Telephone:* 553-91-36.

LENNINGS, Manfred, DR.ING.; German industrialist; b. 23 Feb. 1934, Oberhausen; s. of Wilhelm Lennings and Amanda Albert; m. Renate Stelbrink 1961; one s. one d.; ed. Gymnasium Geislingen/Steige, Univ. of Munich and Bergakademie Clausthal; Chair. German Student Org. 1959- 60; Asst. of Man. Board, Gutehoffnungshütte Aktienverein 1964-67, Deputy mem. 1968, Chair. 1975–; mem. Man. Board, Deutsche Werft AG 1968-69; Chair. Man. Board Howaldtswerke-Deutsche Werft AG 1970-74. *Leisure interests:* modern art and literature, swimming, horse riding. *Address:* Gutehoffnungshütte Aktienverein, 4200 Oberhausen 1, Essener Strasse (Office); 4307 Kettwig, Schmachtenbergstrasse 142, Federal Republic of Germany (Home). *Telephone:* 80-00-51 (Office); 45-45 (Home).

LENNON, John Ono (formerly John Winston), M.B.E.; British songwriter and performer; b. 9 Oct. 1940, Liverpool; s. of Alfred Lennon and Julia Stanley; m. 1st Cynthia Powell 1962, one s.; m. 2nd Yoko Ono 1969, one s. one step d.; ed. Dovedale Primary School, Quarrybank High School, Allerton and Liverpool Art College; plays guitar, organ, piano and harmonica; has written numerous songs with Paul McCartney (*q.v.*); formed pop group The Quarrymen, while at Quarrybank High School 1955; appeared under various titles until formation of The Beatles 1960; appeared with The Beatles in the following activities: performances in Hamburg 1960, 1961, 1962, The Cavern, Liverpool 1960, 1961; toured Scotland, Sweden, U.K. 1963, Paris, Denmark, Hong Kong, Australia, New Zealand, U.S.A., Canada 1964, France, Italy, Spain, U.S.A. 1965, Germany, Spain, Philippines, U.S.A. 1966; attended Transcendental Meditation Course at Maharishi's Acad., Rishikesh, India Feb.-April 1968; formed Apple Corps Ltd., parent org. of The Beatles Group of Companies 1968. John Lennon appeared in film How I Won the War 1967. *Publications:* (by John Lennon) In His Own Write 1964 (adapted as one-act play, Nat. Theatre 1968), A Spaniard in the Works 1965, You Are Here, Lennon Remembers 1972. *Recordings by the Beatles include:* Please, Please Me 1963, With the Beatles 1963, A Hard Day's Night 1964, Beatles for Sale 1965, Help! 1965, Rubber Soul 1966, Revolver 1966, Sergeant Pepper's Lonely Hearts Club Band 1967, The Beatles (White Album) 1968, Yellow Submarine 1969, Abbey Road 1969, Let It Be 1970. *Films:* (by the Beatles): A Hard Day's Night 1964, Help! 1965, Yellow Submarine (animated colour cartoon film) 1968; Let it Be 1970; T.V. film Magical Mystery Tour 1967. *Leisure interest:* working for peace. *Address:* c/o Apple Corps Ltd., 3 Savile Row, London, W.1, England; resident in U.S.A.

LENYA, Lotte (Karoline Blamauer); Austrian actress and singer; b. 18 Oct. 1900, Vienna; d. of Franz Blamauer and Johanna Blamauer (née Teuschl); m. 1st Kurt Weill 1925 (died 1950), 2nd George Davis 1951 (died 1957), 3rd Russell Detwiler (died 1969); mem. corps de ballet, Stadttheater, Zürich, Switzerland; appeared in Shakespearean and other theatrical roles, Berlin, then in Oedipus, Berlin State Theatre, The Little Mahagonny 1927, as Jenny in Brecht and Weill's The Threepenny Opera 1928, The Rise and Fall of the City of Mahagonny 1930, Song of Hoboken 1932; fled to Paris and appeared in The Seven Deadly Sins 1933; travelled to U.S.A. 1935; appeared in The Eternal Road 1937, as Cissy in Candle in the Wind 1944, [illegible] Duchess in The Firebrand of Florence 1945; retired from stage to assist Weill in composing; returned in The Threepenny Opera, Kurt Weill memorial concert 1950; played Xantippe in Barefoot in Athens 1951, Jenny in new translation of The Threepenny Opera 1954-56, in Kurt Weill memorial concerts 1958, 1959, Annie in The Seven Deadly Sins 1958-59, Brecht [illegible] Brecht 1962, Fräulein Schneider in Cabaret 1966; awarded 'Tony' for appearance in The Threepenny Opera 1956, 'Oscar' for The Roman Spring of Mrs. Stone, also appeared in From Russia with Love 1964. *Address:* c/o Columbia Records, 799 7th Avenue, New York 19, N.Y., U.S.A.

LENZ, Siegfried; German writer; b. 17 March 1926; ed. High School, Samter, and Univ. of Hamburg; Cultural Ed. Die Welt

1949-51; freelance writer 1952-; Gerhart Hauptmann Prize 1961, Bremer Literaturpreis 1962. *Publications* include novels: [illegible] waren Habichte in der Luft 1951, Duell mit dem Schattern 1953, So zärtlich war Suleyken 1955, 1962, Der Mann im Strom 1957, 1958, Brot und Spiele 1959, Stadtgespräche 1963, Deutschstunde 1968, Das Vorbild 1973; stories: Jäger des Spotts 1958, Das Feuerschiff 1960, Einstein überquert die Elbe bei Hamburg 1975; plays: Zeit der Schuldlosen 1961, Das Gesicht 1963, Haussuchung (radio plays) 1967. *Address:* Preusserstrasse 4, 2 Hamburg 52, Federal Republic of Germany.

LEODOLTER, Ingrid Maria Margarete, DR.MED.; Austrian physician and politician; b. 14 Aug. 1919, Vienna; d. of Dr. Leopold and Elsa Zechner; m. Dr. Josef Leodolter 1938; two s.; ed. Univ. of Vienna; practising doctor 1944-, Intern, Head Doctor, Sophienspital Vienna 1958-; Minister of Health and Environmental Protection 1971-. *Publications:* about forty studies in internal medicine, particularly gastroenterology. *Leisure interests:* sport, music. *Address:* 1140 Vienna, Hadikgasse 102, Austria. *Telephone:* 823114.

LEÓN PORTILLA, Miguel, PH.D.; Mexican anthropologist and historian; b. 1926, Mexico City; s. of Miguel León Ortiz and Luisa Portilla Nájera; m. Ascensión Hernández Triviño 1965; one d.; ed. Loyola Univ. of Los Angeles and Nat. Univ. of Mexico; Sec.-Gen. Inter-American Indian Inst. 1955-59, Asst. Dir. 1959-60, Dir. 1960-66; Asst. Dir. Seminar for Náhuatl Culture, Nat. Univ. of Mexico 1956-; Dir. América Indígena 1960-; Dir. Inst. of History, Nat. Univ. of Mexico 1963-; Adviser, Int. Inst. of Different Civilisations 1960-; mem. Board Govs. Nat. Univ. Mexico 1976-; mem. American Anthropological Assn. 1960-, Mexican Acad. of the Language 1962-, Corresp. to Royal Spanish Acad. 1962-; mem. Société des Américanistes de Paris 1966-, Mexican Acad. of History 1969-; Corresp. mem. Royal Spanish Acad. of History 1969-; Guggenheim Fellow 1969; mem. Nat. Coll. of Mexico 1971-; American Anthropological Assn. Fifth Distinguished Lecturer 1974; Commendatore Repub. Italiana 1977, Serra Award 1978. *Publications:* La Filosofía Náhuatl 1956, Visión des los Vencidos 1959, Los Antiguos Mexicanos 1961, The Broken Spears, Aztec Account of the Conquest of Mexico 1962, Rückkehr der Götter 1962, Aztec Thought and Culture 1963, Literaturas Precolombinas de México 1964, Imagen del México Antiguo 1964, Le Crépuscule des Aztèques 1965, Trece Poetas del Mundo Azteca 1967, Pre-Columbian Literatures of Mexico 1968, Tiempo y Realidad en el Pensamiento Maya 1968, Testimonios Sudcalifornianos 1970, De Teotihuacan a los Aztecas 1971, The Norteño Variety of Mexican Culture 1972, The Voyages of Francisco de Ortega to California 1632-1636 1972, Time and Reality in the Thought of the Maya 1973, Historia Natural y Crónica de la Antigua California 1973, Il Rovescio della Conquista, Testimonianze Asteche, Maya e Inca 1974, Aztecs and Navajos 1975, Endangered Cultures: The Indian in Latin America 1975, Indian Place Names of Baja California 1977, L'Envers de la conquête 1977, Los Manifestos en Náhuatl de Emiliano Zapata 1978. *Leisure interests:* scouting and gardening. *Address:* Calle de Alberto Zamora 103, Coyoacán, México 21, D.F., Mexico. *Telephone:* 548-15-10.

LEÓN TORRAS, Raúl E., B.S.ECON.; Cuban banker; b. 8 Feb. 1935, Havana; s. of Raúl León García and Francisca Torras de la Luz; m. Ela Tribunero González; ed. Wharton School of Finance and Commerce at Univ. of Pennsylvania, Philadelphia, U.S.A.; Economist, Banco Nacional de Cuba 1959-60, Minister-Pres. 1973-; Dir. Banco para el Comercio Exterior de Cuba 1960-61; Vice-Minister of Foreign Trade 1961-63, First Vice-Minister 1963-73; Chair. Int. Sugar Council, London 1973; mem. Nat. Assembly 1976–; Twentieth Anniversary Medal. *Publications:* articles on foreign trade, planning, sugar economics in specialized Cuban journals. *Leisure interests:* reading modern classics and popular science. *Address:* Banco Nacional de Cuba, Calle Cuba, No. 402, Havana, Cuba. *Telephone:* 62-2227.

LEONARD, Hugh, (John Keyes Byrne); Irish playwright; b. 9 Nov. 1926, Dublin; m. Paule Jacquet 1955; one d.; ed. Presentation Coll., Dun Laoghaire; worked in Civil Servant 1945-49; Script Editor, Granada Television 1961-63; Literary Ed., Abbey Theatre 1976-77; Programme Dir., Dublin Theatre Festival 1978; stage plays include The Big Birthday 1957, A Leap in the Dark 1957, Madigan's Lock 1958, A Walk on the Water 1960, The Passion of Peter Ginty 1961, Stephen D 1962, The Poker Session 1963, Dublin 1 1963, The Saints Go Cycling In 1965, Mick and Mick 1966, The Quick and the Dead 1967, The Au Pair Man 1968, The Barracks 1969, The Patrick Pearse Motel 1971, Da 1973, Thieves 1973, Summer 1974, Times of Wolves and Tigers 1974, Irishmen 1975, Time Was 1976, A Life 1977; writing for television includes Silent Song 1967, Nicholas Nickleby 1977, London Belongs to Me 1977, The Last Campaign 1978, The Ring and the Rose 1978, Strumpet City 1979; film: Herself Surprised 1977; Writers' Guild Award 1966, Tony Award, Critics Circle Award, Drama Desk Award, Outer Critics Award 1978. *Publications:* The Bully and the Chap (autobiog.) 1979. *Leisure interests:* river cruising, conversation, travel, gastronomy. *Address:* Theros, Coliemore Road, Dalkey, Co. Dublin, Ireland.

LEONARD, Nelson Jordan, B.S., B.SC., PH.D.; American professor of chemistry; b. 1 Sept. 1916, Newark, N.J.; s. of Harvey Nelson Leonard and Olga Pauline Jordan; m. Louise Cornelie Vermey 1947; three s. one d.; ed. Lehigh, Oxford and Columbia Univs.; Research Asst., Univ. of Ill. 1942-43, Instructor 1943-44, Assoc. 1944-45, 1946-47, Asst. Prof. 1947-49, Assoc. Prof. 1949-52, Prof. of Chem. 1952-, Head of Div. of Organic Chem. 1954-63, and Prof. of Biochem. 1973-; mem. Center for Advanced Study, Univ. of Ill. 1968-; Scientific Consultant and Special Investigator, Field Intelligence Agency Technical, U.S. Army and U.S. Dept. of Commerce, European Theater 1945-46; Editor Organic Syntheses 1951-58, mem. Advisory Board 1958-, Board of Dirs. 1969, Vice-Pres. 1976-; mem. Exec. Cttee. Journal of Organic Chemistry 1951-54, [illegible] Editorial Board 1957-61; mem. Editorial Board Journal of the American Chemical Society 1960-72; [illegible] Advisory Board Biochemistry 1973-; Sec., Div. of Organic Chem. of American Chemical Soc. 1949-54, Chair. 1956; [illegible] Advisory Panel for Chem. of Nat. Science Foundation 1958-61, Program Cttee. in the Basic Physical Sciences of Alfred P. Sloan Foundation 1961-66, Study Section in Medicinal Chem. of Nat. Insts. of Health 1963-67, Educational Advisory Board of John Simon Guggenheim Memorial Foundation 1969-, Cttee. of Selection 1977-, N.A.S. 1955-; Visiting Professor Univ. of California 1975; Fellow, American Acad. of Arts and Sciences 1961-; Foreign [illegible] Polish Acad. of Sciences; Swiss American Foundation Lecturer 1953, 1970, Julius Stieglitz Memorial Lecturer of Chicago Section of American Chemical Soc. 1962, Backer Lecturer, Univ. of Groningen 1972 and other lectureships; Hon. Sc.D.; American Chemical Soc. Award for Creative Work in Synthetic Organic Chem. 1963, Synthetic Organic Chemical Mfrs. Assn. Medal 1970, Edgar Fahs Smith Award and Memorial Lecturer of Philadelphia Section of American Chem. Soc. and Univ. of Pa. 1975. *Publications:* Numerous research articles in scientific journals. *Leisure interests:* singing, skiing, swimming. *Address:* Department of Chemistry, University of Illinois, Urbana, Ill. 61801 (Office); 606 West Indiana Avenue, Urbana, Ill., U.S.A. (Home). *Telephone:* 217-333-0363 (Office); 217-344-6266 (Home).

LEONE, Giovanni; Italian professor and politician; b. 3 Nov. 1908, Naples; s. of Mauro and Maria (Gioffrida) Leone; m. Vittoria Michitto 1946; four s. (one deceased); ed. Univ. of Naples; Prof. of Law, Univ. of Naples; elected to Constituent Assembly 1946, to Chamber of Deputies 1948 and 1953; Vice-Pres., Chamber of Deputies 1948-49, Pres. 1955-63; Prime Minister June-Nov. 1963, June-Dec. 1968; made life Senator 1967; Pres. of Italian Repub. 1971-78; Christian Democrat. *Address:* c/o Palazzo del Quirinale, Rome, Italy.

LEONHARDT, Rudolf Walter, DR.PHIL.; German journalist; b. 9 Feb. 1921, Altenburg; s. of Rudolf Leonhardt and Paula (née Zeiger); m. Ulrike (née Zoerb); two [illegible] one d.; ed. Berlin, Leipzig, Bonn, Cambridge and London; Lecturer in German, Cambridge Univ. 1948-50; Foreign Corresp. Die Zeit, London 1953-55, Cultural Editor Die Zeit, Hamburg 1957-73, Deputy Editor-in-Chief 1974-. *Publications:* The Structure of a Novel 1950, Notes on German Literature 1955, 77 x England 1957 (trans. into Spanish 1964), Der Sündenfall der deutschen Germanistik 1959, Leben ohne Literatur? 1961, x-mal Deutschland 1961 (trans. into English, Italian, Spanish 1964), Zeitnotizen 1963, Junge deutsche Dichter für Anfänger 1964, Reise in ein Fernes Land (with Marion Gräfin Dönhoff and Theo Sommer) 1964 (trans. into Japanese 1965); Kästner für Erwachsene 1966, Wer wirft den ersten Stein? 1969, Sylt für Anfänger 1969, Haschisch-Report 1970, Drei Wochen und Drei Tage—Japan-Tagebuch 1970, Deutschland 1972, Argumente Pro und Contra 1974, Das Weib, Das Ich Geliebet Hab—Heines Mädchen und Frauen 1975, Journalismus und Wahrheit 1976. *Leisure interest:* people. *Address:* Leuchtturmweg 92A, 2000 Hamburg 56, Federal Republic of Germany.

LEONHART, William, PH.D.; American diplomatist; b. 1 Aug. 1919, Parkersburg, W. Va.; s. of Harry Kempton Leonhart and Rae Corinne Kahn; m. Florence Lydia Sloan 1944; two d.; ed. Univ. of West Virginia, Princeton Univ. and Imperial Defence Coll., London; in office of Co-ordinator for Inter-American Affairs 1943-44; entered U.S. Foreign Service and assigned to Buenos Aires 1944, in Belgrade 1946-49, in Rome 1949-50, in French Indo-China 1950-52, in Tokyo 1952-55; [illegible] Policy Planning Staff of Dept. of State 1955-57, concurrently Alt. Dept. of State Rep. on Nat. Security Council Planning Board 1956-57; in London 1958; Deputy Chief of Mission, Tokyo, with personal rank of Minister 1959; U.S. Amb. to Tangan-

yika (later Tanzania) 1962-65; Deputy to Special Asst., then Special Asst. to the Pres., The White House, Washington 1966-68; Special Asst. to Pres.-Elect's Personal Rep. for Foreign Policy Matters 1968-69; Amb. to Yugoslavia 1969-71; Deputy Commdt. Nat. War Coll., Fort Leslie J. McNair 1971-75; Vice-Pres. Nat. Defense Univ. 1975-77; Dept. of State 1977-. *Address:* Department of State, Washington, D.C. 20520 (Office); 2618 30th Street, N.W., Washington, D.C. 20008 (Home). *Telephone:* (703) 351-6532 (Office); (202) 965-2464 (Home).

LEONOV, Col. Aleksey Arkhipovich; Soviet cosmonaut; b. 30 May 1934, Listvyanka, Kemerovo Region; s. of Arkhip and Yevdokia Leonov; m. Svetlana Leonova; one d.; ed. Chuguevsky Air Force School for Pilots and Zhukovsky Air Force Engineering Academy; Pilot 1956-59; cosmonaut training 1960; took part in flight of spaceship Voskhod 2, and moved 5 metres into space outside space-ship; [illegible] CPSU 1957-; Pilot-Cosmonaut of U.S.S.R.; first man to walk in space 1965; took part in joint flight Soyuz 19-Apollo 1975; Chair. Council of Founders of Novosti Press Agency 1969-; Twice Hero of the Soviet Union, Order of Lenin. *Address:* Zvezdny Gorodok, Moscow, U.S.S.R.

LEONOV, Leonid Maksimovich; Soviet writer; b. 31 May 1899, Moscow; ed. Moscow Univ.; Deputy to Supreme Soviet 1970; Dir. of Pushkin Dom (Pushkin House—U.S.S.R. Acad. of Sciences, Inst. of Russian Literature) 1972; Sec. of Board, U.S.S.R. Union of Writers; State Prize 1942, Lenin Prize 1957; Order of Lenin (four times), Hero of Socialist Labour, Hammer and Sickle Gold Medal, Order of Red Banner of Labour, Order of Patriotic War, Merited Worker of Arts of R.S.F.S.R. *Publications:* Barsuki 1924, The Thief 1927, Sotj 1930, Skutarevsky 1932, Road to the Ocean 1936, The Ordinary Man 1941, Lenushka 1943, The Fall of Velikoshumsk 1944, The Golden Car 1946, Sazancha 1959, Mr. McKinley's Flight 1961, Evgenia Ivanovna 1963, Plays 1964, Sot' 1968, The Russian Forest 1973, In the War Years and After 1974, Moscow Publicistics 1976. *Address:* Union of Soviet Writers, 52 Ulitsa Vorovskogo, Moscow, U.S.S.R.

LEONTIEF, Wassily; American (b. Russian) economist; b. 5 Aug. 1906, St. Petersburg (now Leningrad); s. of Wassily and Eugenia Leontief (née Bekker); m. Estelle Helena Marks 1932; one d.; ed. Univs. of Leningrad and Berlin; Asst. Kiel Econ. Research Inst. 1927-28, 1930; Econ. Adviser to Chinese Govt., Nanking 1929; Nat. Bureau of Econ. Research, N.Y. 1931; Lecturer in Econs., Harvard Univ. 1931, Asst. Prof. 1933-38, Assoc. Prof. 1939-45, Prof. 1946-75; Dept. of Econs. N.Y. Univ. 1975-; Consultant Dept. of Labour 1941-47, Office of Strategic Services 1943-45, UN 1961-62, Dept. of Commerce 1966-; mem. American Philosophical Soc., American Acad. of Arts and Sciences, Int. Statistical Inst., American Econ. Assn., U.S. Nat. Acad. of Sciences; Nobel Prize for Econs. 1973; Légion d'honneur 1967, Gold Medal of Paris 1974. *Publications:* Structure of American Economy 1919-1920 (2nd edn.) 1953, Studies in the Structure of the American Economy 1953, Input-Output Economics 1966, Collected Essays 1966, Essays in Economics 1978. *Address:* Department of Economics, Harvard University, 309 Littauer, Cambridge, Mass. 02138, U.S.A. *Telephone:* (617) 495-2118.

LÉOPOLD III; fmr. King of the Belgians; b. 3 Nov. 1901, son of King Albert; married Princess Astrid (died 1935), niece of King Gustav V of Sweden, 1926; succeeded 1934; Commdr.-in-Chief Armed Forces 1940; married Mlle. Mary Liliane Baels Sept. 1941; abdicated 16 July 1951, in favour of his son, King Baudouin (*q.v.*), b. 1930. *Address:* Domaine Royal d'Argenteuil, Poste Waterloo, Belgium.

LEOPOLD, Luna B., PH.D.; American geologist and engineer; b. 8 Oct. 1915, New Mexico; s. of Aldo Leopold and Estella Bergere; m. 1st Carolyn Clugston 1940, 2nd Barbara Beck Nelson 1973; one s. one d.; ed. Harvard Univ. and Univs. of California and Wisconsin. United States Army 1941-46; Head Meteorologist, Pineapple Research Inst. of Hawaii 1946-50; Hydraulic Engineer, U.S. Geological Survey, Washington, D.C. 1950-66, Chief Hydrologist 1956-66, Sr. Research Hydrologist 1966-71; Prof. of Geology, Univ. of Calif. 1973-; mem. Nat. Acad. of Sciences; Kirk Bryan Award, Geological Soc. of America, Cullum Geographical Medal, American Geographical Soc., Distinguished Service Award, U.S. Dept. of Interior, Veth Medal, Royal Netherlands Geographical Soc., Rockefeller Public Service Award. *Publications:* Several books and over 100 scientific papers [illegible] water, hydrology and rivers. *Address:* Department of Geology, University of California, Berkeley, Calif. 94720; 400 Vermont Avenue, Berkeley, Calif. 94707, U.S.A.

LEPESHINSKAYA, Olga Vasiliyevna; Soviet ballerina; b. 28 Sept. 1916, Kiev; ed. Bolshoi Theatre School of Ballet, Moscow; danced with the Bolshoi Theatre Ballet Co. 1933-63; ballet teacher 1963-; People's Artist of U.S.S.R. 1951; mem. CPSU 1943; State prize-winner 1941, 1946, 1947, 1950; three Orders of Distinction and other decorations. *Principal rôles:* Cinderella (Cinderella by Prokofiev), Jeanne (Flames of Paris by Asafiev), Swanhilda (Coppelia by Delibes), Tao Tkhoa (Red Poppy by Glière). *Address:* State Academic Bolshoi Theatre of the U.S.S.R., 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

LÉPINE, Pierre Raphael, M.D., L.S.C.; French scientist; b. 15 Aug. 1901, Lyons; s. of Jean Lépine; m. Marie-Madeleine Dollfus 1926; two s. one d.; ed. Univ. of Lyons; Instructor of Parasitology 1924; Doctor of Medicine 1925; Prof. of Pathology, American Univ., Beirut 1925-26; Asst. Coll. de France 1927; Chief of Lab., Institut Pasteur 1928; Dir. Institut Pasteur Hellénique, Athens 1930-35; Chief, Rabies Div., Institut Pasteur 1936, Prof. and Chief of Virus Research 1940-71, Emer. Prof. 1971; Visiting Prof. Institut de Microbiologie et d'Hygiène, Univ. of Montreal 1947-57; Pres. European Assn. against Poliomyelitis 1952-60; Vice-Pres. Institut Pasteur Board of Trustees 1967-70; Emer. mem. WHO Experts Panel on Rabies, Influenza and Polio; Fellow, N.Y. Acad. of Sciences; [illegible] Nat. Acad. of Medicine, Paris; mem. Acad. of Sciences, Paris, Pontifical Acad. of Sciences, City of Paris Council 1971; adviser to Mayor of Paris [illegible] public health and hygiene 1977; Hon. foreign [illegible] U.S.S.R. Acad. Medical Sciences, Acad. Royale de Médecine de Belgique, etc.; Grand Officier Légion d'honneur, Officier Ordre de la Santé publique; Joseph Smadel Award 1970, etc. *Publications:* Virology, Epidemiology, Elect. Microscopy, Techniques de laboratoire [illegible] virologie humaine (editor), Vaccinations, etc. *Leisure interests:* sailing, yachting, travel, archaeology. *Address:* 15 [illegible] Albéric Magnard, F.75, 75016 Paris, France. *Telephone:* 870-61-00 (Home).

LE PORTZ, Yves; French financial executive; b. 30 Aug. 1920, Hennebont; m. Bernadette Champetier de Ribes 1946; five c.; ed. Univ. de Paris à la Sorbonne, Ecole des Hautes Etudes Commerciales, and Ecole Libre des Sciences Politiques; attached to Gen. Inspectorate of Finances 1943, Ministry of Finance and Econ. Affairs 1951; French Del. to Econ. and Social Council of UN 1957-58; Dir.-Gen. of Finance for Algeria 1958-62; Dir.-Gen. Bank for Devt. of Algeria 1959-62; Vice-Pres. and Vice-Chair. Bd. Dirs. EIB 1962-70, Pres. and Chair. 1970-; Insp.-Gen. of Finances 1971; Commdr. Légion d'honneur 1978. *Address:* European Investment Bank, 2 place de Metz, Luxembourg (Office); 127 avenue Wagram, 75017 Paris, France (Home).

LEPRETTE, Jacques; French diplomatist; b. 22 Jan. 1920; ed. Univ. of Paris and École Nationale d'Administration; Ministry of Foreign Affairs (European Div.) 1947-49, Counsellor, Council of Europe 1949-52; Head Political Div., French Mil. Govt., Berlin 1952-55; Counsellor, French Embassy, U.S.A. 1955-59; Ministry of Foreign Affairs (African Div.) 1959-61; Amb. to Mauritania 1961-64; Dir. Int. Liaison Service for Information 1964-65; Minister-Counsellor, Washington 1966-71; Dir. of UN and int. org. affairs at the Foreign Office 1971-74; Asst. Dir. of Political Affairs 1975-76; Amb. and Perm. Rep. to UN 1976-; Officier Légion d'honneur, Croix de guerre, Bronze Star Medal. *Address:* 1 Dag Hammarskjöld Plaza, 245 East 47th Street, New York, N.Y. 10017, U.S.A.; 37 Quai d'Orsay, 75007 Paris; 36 [illegible] Miollis, Paris, France (Home).

LEPRINCE-RINGUET, Louis; French scientist; b. 27 March 1901, Alès-Gard; s. of Félix Leprince-Ringuet and Renée Stourm; m. Jeanne Motte 1939; three s. four d.; ed. Lycée Louis-le-Grand, Ecole Polytechnique and Ecole Supérieure d'Electricité et des P.T.T.; worked as engineer and did research on cosmic rays and fundamental particles physics; Prof. at Ecole Polytechnique 1936-69; Pres. Union Catholique des Scientifiques Français 1948-63; Pres., Soc. Française de Physique 1956; [illegible] Acad. des Sciences (Physics) 1949-; mem. Acad. Pontificale des Sciences 1956-; Acad. Française 1966-; Dir. of Lab. at Ecole des Hautes Etudes Pratiques; mem. Atomic Energy Comm.; Prof. of Nuclear Physics at Collège de France 1959-72; Pres. CERN Scientific Council 1964-66; Pres. Jeunesses Musicales de France 1971-, Mouvement Européen (France) 1974-. *Publications:* Rayons cosmiques, Les inventeurs célèbres, Les grandes découvertes du XXe siècle, Des atomes et des hommes, La science contemporaine, Science et bonheur des hommes. *Leisure interests:* painting, tennis, skiing. *Address:* [illegible] rue de Grenelle, 75007 Paris, France. *Telephone:* 548-75-27.

LE QUESNE, Sir (Charles) Martin, K.C.M.G.; British diplomatist (retd.); b. 10 June 1917, London; s. of C. T. Le Quesne, Q.C. and Eileen Pearce Gould; m. Deirdre Noel Fisher 1948; three s.; ed Shrewsbury, Exeter Coll., Oxford; served in Royal Artillery 1940-45; joined Foreign Service 1946; Second Sec., Baghdad 1947-48; First Sec. Foreign Office 1948-51; with Political Residency, Bahrain 1951-54; at British Embassy, Rome 1955-58; Foreign Office 1958-

60; Chargé d'Affaires, Repub. of Mali 1960, Amb. 1961-64; Foreign Office 1964-68; Amb. to Algeria 1968-71; Deputy Under-Sec. of State, Foreign and Commonwealth Office 1971-74; High Commr. in Nigeria 1974-76; Dir. Barclay's Unicorn Group, Chair. Barclaytrust Int. Ltd. *Leisure interests:* gardening, books. *Address:* Beau Desert, St. Saviour's, Jersey. *Telephone:* 0534-22076.

LÉR, Leopold, ING., C.SC.; Czechoslovak politician; b. 23 Oct. 1928, Ostrava; ed. Commercial Coll., Prague; Ministry of Finance 1951-62, Deputy Minister 1962, First Deputy Minister 1963, Minister of Finance of Czech Socialist Repub. 1969-73, Fed. Minister 1973-; participated in work of CMEA and in formation of Int. Bank for Econ. Co-operation; Deputy, Czech Nat. Council 1971-76; Cand. of the Cen. Cttee. of CP of Czechoslovakia 1976-; Chair. of Govt. Cttee. for Issues of Planned Man. of the Nat. Economy 1976-; Deputy, House of the People, Fed. Assembly 1976-; Distinction for Merits in Construction 1973, Order of Labour 1978. *Address:* Ministry of Finance, Letenská ulice, Prague 1, Czechoslovakia.

LERAY, Jean, D. ÈS SC.; French mathematician; b. 7 Nov. 1906, Nantes; m. Marguerite Trumier 1932; two s. one d.; ed. Ecole Normale Supérieure; Prof. Faculty of Sciences, Nancy 1936-41, Paris 1941-47; Prof. of Differential and Functional Equations, Collège de France 1947-78; mem. Inst. de France; Foreign Assoc. Nat. Acad. of Sciences (U.S.A.); Foreign mem. U.S.S.R. Acad. of Sciences, Accad. Naz. dei Quaranta, and Acad. of Sciences of Belgium, Boston, Göttingen, Milan, Palermo, Poland and Turin; Commdr. Légion d'honneur; Prix Feltrinelli 1971. *Publications:* papers on mathematics and mechanics. *Address:* 6 avenue Jean Racine, 92330 Sceaux, France. *Telephone:* 661-0321.

LE RICHE, William Harding, M.D., F.R.C.P.(C)., F.A.C.P.; Canadian physician and professor; b. 21 March 1916; Dewetsdorp, S. Africa; s. of Josef Daniel le Riche and Georgina Henrietta Guest le Riche (née Harding); m. Margaret Cardross Grant, 1943; two s. three d.; ed. Univ. of Witwatersrand and Harvard Univ.; Intern. Zulu McCord Hosp., Durban, S. Africa 1944; Union Health Dept., Health Centre Service (Pholela, Natal and Knysna) 1945-49; Epidemiologist, Union Health Dept. 1950-52; Consultant, Dept. of Nat. Health and Welfare, Ottawa, 1952-54; Research Medical Officer, Physicians Services Inc., Toronto 1954-57; Staff, School of Hygiene, Univ. of Toronto 1957, Prof. of Public Health 1959, Prof. and Head of Dept. of Epidemiology and Biometrics 1962-75, Prof. of Epidemiology. *Publications:* Physique and Nutrition 1940, The Complete Family Book of Nutrition and Meal Planning 1976; co-author: The Control of Infections in Hospitals 1966, People Look at Doctors 1971, Epidemiology ■■ Medical Ecology 1971. *Leisure interests:* writing books, photography, research, public speaking, medical practice. *Address:* McMurrich Building, 12 Queen's Park Crescent West, Toronto, Ontario, M5S 1A8 (Office); 30 Golfdale Road, Toronto, Ont. M4N 2B6, Canada (Home). *Telephone:* 978-2020 (Office); 489-2298 (Home).

LERNER, Alan Jay; American theatrical writer and producer; b. 31 Aug. 1918, New York City; m. 6th Nina Bushkin 1977; ed. Bedales, Hampshire, England, Choate School, Wallingford, Conn., Harvard Univ.; has written books and lyrics for all of his stage and film productions; mem. Dramatists' Guild of America (Pres. 1958-63), President's Comm. for Nat. Cultural Centre, Washington 1962-. *Productions:* Stage: What's Up? 1943, The Day Before Spring 1945, Brigadoon 1947, Love Life 1948, Paint Your Wagon 1951, My Fair Lady 1956, Camelot 1960, On ■ Clear Day You Can See Forever 1964, Coco 1969, Gigi 1973, 1600 Pennsylvania Avenue 1976; *Films:* A Royal Wedding 1951, An American in Paris 1951, Brigadoon 1954, Gigi 1958, My Fair Lady 1964, Camelot 1968, Paint Your Wagon 1969, On ■ Clear Day You Can See Forever 1970, The Little Prince. *Publication:* The Street Where I Live 1978. *Address:* 10 E. 40th Street, New York, N.Y. 10016, U.S.A.

LERNER, Max, A.B., A.M., PH.D.; American writer, b. 20 Dec. 1902, Ivenitz, Russia; s. of Benjamin and Bessie (Podbereski) Lerner; m. 1st Anita Marburg 1928, 2nd Edna Albers 1941; three s. three d.; ed. Yale and Washington (St. Louis) Univs., Robert Brookings Graduate School of Economics and Govt.; Asst. Ed. Encyclopædia of the Social Sciences 1927, later Man. Ed.; mem. Social Science Faculty Sarah Lawrence Coll. Bronxville (N.Y.) 1932-36; Chair. Faculty Wellesley Summer Inst. 1933-35; Dir. Consumers' Div. Nat. Emergency Council 1934; Lecturer Dept. of Govt. Harvard Univ. 1935-36; Ed. The Nation 1936-38; Prof. of Political Science Williams Coll. 1938-43; Contrib. Ed. New Republic 1940-45; Editorial Dir. PM New York 1943-48; Columnist New York Star 1948-49; radio commentator WOR 1944-47; Columnist New York Post 1949-; Prof. of American Civilization, Brandeis Univ. 1949-73; Ford Foundation Prof. American Civilization, School of Int. Studies, New Delhi, India 1959-60; Internationally-syndicated newspaper columnist 1959-; Ford Foundation Research and Study Grant, Paris 1963-64; Visiting Prof. of American Civilization, Univ. of Florida 1973-75, Pomona Coll. 1974-75, Graduate School of Human Behaviour, U.S. Int. Univ. (San Diego) 1974-; Prof. Southwest Univ. Law School (Los Angeles) 1978-. *Publications:* It is Later Than You Think 1938, Ideas Are Weapons 1939, Ideas for the Ice Age 1941, The Mind and Faith of Justice Holmes 1943, Public Journal 1945, The World of the Great Powers 1947, Actions and Passions 1948, America ■■ ■ Civilisation 1957, The Unfinished Country 1959, Essential Works of John Stuart Mill 1961, Education and ■ Radical Humanism 1962, The Age of Overkill 1962, Tocqueville's Democracy in America 1966, Tocqueville and American Civilization 1969, Values in Education 1976. *Address:* 25 East End Avenue, New York, N.Y. 10028, U.S.A.

LESAGE, Rt. Hon. Jean, P.C., M.P., Q.C., LL.D., B.A.; Canadian lawyer and politician; b. 10 June 1912; ed. Lavel Univ.; practised law, Quebec Bar; Crown Attorney 1939-44; M.P. for Montmagny-l'Islet 1945-58; Parl. Asst. to Sec. of State for External Affairs 1951, to Minister of Finance 1953; Minister of Resources and Devt. Sept.-Dec. 1953, of Northern Affairs and Nat. Resources 1953-57; Canadian Rep. to UN Gen. Assembly 1950 and 1952; led Canadian Del. to ECOSOC, Geneva 1951, New York 1952; Pres. UN Technical Asst. Conf., Paris 1952; Leader Liberal Party in Quebec 1958-69; Premier of Quebec 1960-66, concurrently Minister of Finance and Fed. Prov. Affairs 1961-66; D.Iur. h.c. 1961. *Address:* Quebec Liberal Party, Montreal, Quebec, Canada.

LESCH, George H.; American businessman; b. 10 Oct. 1909, Washburn, Illinois; m. Esther Barrett; two c.; ed. Monmouth Coll. and Univ. of Illinois; worked in Home Office Accounting, Colgate-Palmolive 1932-36, mem. of European Auditing Staff 1936-39; Office Man., Mexico 1939-48; Vice-Pres. and Asst. Gen. Man. 1948, Exec. Vice-Pres. and Gen. Man. 1948-55; Pres. and Gen. Man. Mexican Co. (subsidiary of Colgate-Palmolive) 1955-56; Vice-Pres. Colgate-Palmolive Int., responsible for sales and advertising in U.K. and Europe 1956-57, Pres., Vice-Pres. and Dir. 1957-60; Pres., Chief Exec. Officer, Colgate-Palmolive Co. 1960-61, Chair., Pres. 1961-70, Chair. 1970-75; mem. Boards of Dirs. Bank of New York, Amstar Corpn., F. W. Woolworth Uniroyal Inc., Anchor Hocking Corpn.; Hon. LL.D. (Syracuse); Commdr. Order of Merit (Italy). *Address:* Colgate-Palmolive Company, 300 Park Avenue, New York, N.Y. 10022, U.S.A.

LESECHKO, Mikhail Avksentyevich; Soviet engineer and government official; b. 16 Oct. 1909; ed. Moscow Aviation Inst.; fmr. turner, technologist and factory man. 1936-45; with Council of Ministers State Cttee. for Introduction of New Equipment 1946-48; Dir. Moscow Counting-Analytical Equipment 1948-54; First Deputy Minister of Machine Instrument Making 1954-56; Minister of Instrument Making and Automation 1956-57; First Vice-Chair. Ukrainian S.S.R. State Planning Cttee. 1957-58; First Vice-Chair. State Planning Cttee. 1958-60; Chair. of Comm. for Foreign Econ. Affairs, attached to Presidium of Council of Ministers 1960-62, Deputy Chair. U.S.S.R. Council of Ministers 1962-78, First Vice-Chair. 1978-; mem. CPSU 1940-, Central Cttee. CPSU 1961-; Deputy to U.S.S.R. Supreme Soviet 1962-; fmr. mem. Exec. Cttee. COMECON; Perm. Rep. of U.S.S.R. to COMECON 1968-; State prizewinner 1954, Order of Lenin (twice) and other decorations. *Address:* U.S.S.R. Council of Ministers, The Kremlin, Moscow, U.S.S.R.

LESIEUR, Michel; French business executive; b. 1922; m.; seven c.; joined French Army in N. Africa 1943, posted at Ecole des Elèves Officiers de Marine, Casablanca 1943-44, Lieut. of Reserve Ship 1944-45; Société Georges Lesieur et ■■ Fils, Head Oil-cakes Dept. 1946-52; charged with the creation of an org. for the purchase of groundnut seeds in Senegal 1952; Admin.-Del. Société Lesieur-Afrique Dakar 1955-65, Chair. 1965-; responsible for the supply of oleaginous primary materials for the Lesieur Group 1958-65; Dir.-Gen. Georges Lesieur et ■■ Fils (now Compagnie Financière Lesieur) 1965-66, Chair. 1966-; Chair. Lesieur-Cotelle et Associés; Vice-Pres. Fédération Européenne des Huileries Oléagineuses (FEDIOL); Chevalier Légion d'honneur. *Address:* Compagnie Financière Lesieur, 122 avenue du Général Leclerc, 92100 Boulogne-Billancourt, France. *Telephone:* 604-81-40.

LESIEUX, Louis; French airline official; b. 16 May 1907, Liévin; s. of Louis Lesieux and Marie Lecourt; m. Claire Lefebvre 1932; two d.; ed. Ecole Polytechnique and Ecole Nationale des Ponts et Chaussées; Engineer and Chief Engineer of Roads and Bridges, Niort, Lille and Nice; Dir.-Gen. of Paris Airport 1948-55, Dir.-Gen. of Air France 1955-67, Hon. Dir.-Gen. 1967-; Commdr. Légion d'honneur; several foreign decorations. *Leisure interest:* music. *Address:* 180 rue de la Pompe, Paris 16e, France. *Telephone:* 553-06-59 (Home).

LESLIE, John Charles, B.S., M.S.; American airline executive (retd.); b. 21 July 1905; ed. Phillips Exeter Acad., Princeton Univ., and M.I.T.; Fokker Aircraft Co. of U.S. 1928; Asst. to Chief Engineer, Pan American World Airways 1929, Asst. Div. Engineer, Miami 1929-35, Div. Engineer, Pacific Div., San Francisco 1935-38, Div. Operations Man. 1938-41, Man. Atlantic Div., New York 1941-45, Vice-Pres. System Office 1946, Vice-Pres. Admin. and Dir. 1950, Vice-Pres. and Asst. to Pres. 1959-64, Vice-Pres. and Asst. to Chair. 1964-68, Sr. Vice-Pres., Int. Affairs 1968-70, Senior Vice-Pres. Int. Affairs 1968-70. *Address:* 60 East End Avenue, New York, N.Y. 10028, U.S.A.

LEŚNODORSKI, Bogusław; Polish historian; b. 27 May 1914, Cracow; ed. Jagiellonian Univ., Cracow; Doctor 1938-47, Docent 1947-51, Assoc. Prof. 1951-56, Prof. 1956-; Chair. Scientific Council Cttee. on History of Science and Tech., Polish Acad. of Sciences 1953-; Ed.-in-Chief Kwartalnik Historyczny 1953-72; Corresp. [illegible] Polish Acad. of Sciences; fmr. Dir. Historical-Legal Inst., Dept. of Law and Administration, Warsaw Univ., now Prof. Inst. of History of Law; mem. Int. Asscn. of Historians of Law and Public Institutions, Soc. des Etudes Robespierristes, Int. Union of History and Phil. of Science, Soc. of Comparative Legislation; Dr. h.c. (Toulouse); Gold Cross of Merit, Officer's and Commdr.'s Cross, Order of Polonia Restituta, Medal of Nat. Educ. Comm., State Prize (twice). *Publications:* Dzieło Sejmu Czteroletniego, Synteza historii państwa i prawa polskiego, Studia nad myślą prawnopolityczną H. Kołłątaja, Polscy Jakobini, Historia i współczesność, Ludzie i idee, Rozmowy [illegible] przeszłością, Parlamentaryzm w Polsce; co-author: A Thousand Years of Poland; numerous articles, also in foreign languages. *Address:* Ul. Kredytowa 8 m. 20, 00-062 Warsaw, Poland.

LESOTHO, King of (see Moshoeshoe II).

LESSER, Most Rev. Norman Alfred, C.M.G., M.A., TH.D., D.D.; British ecclesiastic; b. 16 March 1902; ed. Liverpool Collegiate School, Fitzwilliam House and Ridley Hall, Cambridge; curate, Anfield 1925-26, Formby 1926-29; Curate-in-Charge Norris Green 1929-30; Chaplain of Cathedral, Liverpool 1930-31; Vicar, Barrow-in-Furness 1931-39; Hon. Canon, Rector and Sub-Dean, All Saints Cathedral, Nairobi 1939-47; Provost of Nairobi 1942-47; Bishop of Waiapu 1947; Primate and Archbishop of New Zealand 1961-71; retd. 1971. *Address:* 4 Sealy Road, Napier, New Zealand. *Telephone:* Napier 53-509.

LESSING, Doris May; British writer; b. 22 Oct. 1919, Kermanshah, Iran; d. of Captain Alfred Cooke Tayler and Emily Maude McVeagh; m. 1st F. A. C. Wisdom 1939-43, 2nd Gottfried Anton Nicolai Lessing 1944-49; two s. one d.; ed. Roman Catholic Convent, and Girls' High School, Salisbury, Southern Rhodesia; assoc. [illegible] American Acad. of Arts and Letters 1974; Nat. Inst. of Arts and Letters (U.S.) 1974; mem. Inst. for Cultural Research; Hon. Fellow MLA (America); Somerset Maugham Award 1954; Prix Medici for Foreigners (France) 1976. *Publications include:* The Grass is Singing 1950, Martha Quest 1952, A Proper Marriage 1954, Going Home 1957, The Habit of Loving 1958, Each His Own Wilderness (play) 1958, A Ripple from the Storm 1958, In Pursuit of the English (reportage) 1960, The Golden Notebook 1962, Play With a Tiger (play) 1962, A Man and Two Women 1963, Landlocked 1965, Particularly Cats 1967, The Four Gated City 1969, Briefing for [illegible] Descent into Hell 1971, The Story of a Non-Marrying Man (short stories) 1972, The Summer Before the Dark 1973, Collected Edn. African Stories (2 vols.) This Was the Old Chief's Country and The Sun Between Their Feet 1973, The Memoirs of [illegible] Survivor 1974, To Room Nineteen (collected stories, vol. 1), The Temptation of Jack Orkney (collected stories, vol. 2), Colonised Planet 5: Shikasta 1979. *Address:* Flat 3, 11 Kingscroft Road, London, NW2 3QE, England.

LESTER, Richard; American film director; b. 19 Jan. 1932, Philadelphia; s. of Elliott Lester and Ella Young; m. Deirdre V. Smith 1956; one s. one d.; ed. William Penn Charter School, Univ. of Pennsylvania; TV Dir., CBS 1952-54, ITV 1955-59; Composer 1954-57; Film Dir. 1959-; Acad. Award Nomination 1960; Grand Prix, Cannes Festival 1965; Best Dir. Rio de Janeiro Festival 1966; Gandhi Peace Prize, Berlin Festival 1969; Best Dir. Teheran Festival 1974. *Films directed:* The Running, Jumping and Standing Still Film 1959, It's Trad, Dad 1962, The Mouse on the Moon 1963, A Hard Day's Night 1963, The Knack 1965, Help! 1965, A Funny Thing Happened on the Way to the Forum 1966, How I Won the War 1967, Petulia 1969, The Bed Sitting Room 1969, The Three Musketeers 1973, Juggernaut 1974, The Four Musketeers 1974, Royal Flash 1975, Robin and Marian 1976, The Ritz 1976, Butch and Sundance: The Early Days 1979. *Leisure interests:* tennis, music. *Address:* c/o Twickenham Film Studios, St. Margarets, Middlesex, England. *Telephone:* 01-892 4477.

LESZCZYCKI, Stanislaw Marian, PH.D.; Polish geographer; b. 8 May 1907, Mielec; s. of Bronislaw Leszczycki and Jadwiga Macharska; m. Jadwiga Stella-Sawicka 1950; one d.; ed. Jagiellonian Univ., Cracow; Asst. Jagiellonian Univ., Cracow 1928-39; imprisoned in Dachau and Sachsenhausen concentration camps during Second World War; Deputy to Seym (Parliament) 1945-52; Extraordinary Prof. of Anthropogeography, Jagiellonian Univ., Cracow 1945-47; Prof. of Econ. Geography, Warsaw Univ. 1948-70; Vice-Minister of Foreign Affairs 1946-50; Pres. Polish Geographical Soc. 1950-53; Pres. Nat. Geographical Cttee. 1956-68, 1972-77; Pres. Cttee. of Space Econ. and Regional Planning Polish Acad. of Sciences 1958-; Dir. Geographical Inst., Polish Acad. of Sciences 1953-77; mem. Presidium of Polish Acad. of Sciences 1953-67, 1978-; mem. Vice-Pres. Int. Geographical Union 1964-68, 1972-76, Pres. 1968-72; Vice-Chair. State Counsel for Plan of Spatial Econ. of Poland 1972-77; mem. Polish Socialist Party 1945-48, Polish United Workers' Party 1948-; Editor-in-Chief Przegląd Geograficzny (Geographical Review) and Geographia Polonica; act. Pres. Soc. for Polish-Chinese Friendship; Hon. mem. sixteen European Geographical Socs., Acad. Econ. Poznań 1977; Dr. h.c. (Prague Univ.) 1970; eighteen foreign and Polish decorations including Order of Banner of Labour 1st Class, Commdr. Cross with Star, Order Polonia Restituta, British K.C.M.G., State Prize 2nd Class 1976. *Publications:* numerous works on economic geography, spatial economy and regional planning. *Leisure interests:* photography, hiking, collecting old engravings and numismatics. *Address:* Karowa 18A, m. 11 00324 Warsaw, Poland. *Telephone:* 260328.

LETAVET, Avgust Andreyevich; Soviet hygienist; b. 18 Feb. 1893, Senuli, Latvia; s. of Eva and Andrew Letavet; m. Alexandra Malysheva 1954; ed. Moscow Univ.; Army Physician 1917-18; physician in Kursk Region 1918-19; Head of Sanitary Inspectorate, Senior Asst., Head of Section, Head of Lab., Dir., Inst. of Occupational Hygiene and Occupational Diseases 1948-71; Ed. Journal of Industrial Hygiene and Occupational Diseases; Corresp. mem. U.S.S.R. Acad. of Medical Sciences 1945-50, mem. 1950-; Head of Dept., Cen. Inst. for Postgraduate Medical Training 1931-55; Academician-Sec. Dept. of Hygiene and Microbiology, U.S.S.R. Acad. of Medical Sciences 1957-60; Deputy Chair. All-Union Soc. of Hygienists; Vice-Pres. Int. Fed. for Hygiene and Preventive Medicine 1960-69; Vice-Chair. Int. Comm. on Radiological Protection 1965-69; Hon. mem. Purkyně Medical Soc. (Czechoslovakia), Int. Asscn. on Occupational Health 1972-; Order of Lenin 1951, 1963, 1971, Red Banner of Labour 1945, 1949, 1954, Badge of Honour 1961, State Prize 1949, Lenin Prize 1963 and other decorations. *Publications:* Over 180 works on Hygiene of Labour, particularly on microclimate at industrial enterprises, physiology of labour and radiation hygiene. *Leisure interest:* alpinism. *Address:* Institute of Occupational Hygiene and Occupational Diseases, 31 Meyerovsky Proyezd, Moscow; Moscow 125057, Walt. Oulbrikht's Street 3 R12, U.S.S.R. (Home). *Telephone:* 157-53-89 (Home).

LE THEULE, Joël; French teacher and politician; b. 22 March 1930, Sablé-sur-Sarthe; s. of François and Germaine (Lelièvre) Le Theule; ed. Institution Saint-Julien-Saint-Martin, Angers, Univ. of Angers, Univ. of Paris; teacher, Mil. School of La Flèche, Saint-Cyr 1955-58; mem. Nat. Assembly for La Sarthe 1958-68, 1969-, Pres. Assembly Comm. on Nat. Defence and Armed Forces 1967-68; Minister of Overseas Depts. and Territories May-July 1968; Sec. of State for Information 1968-69; Minister of Transport April 1978-; Pres. Parl. Asscn. France-Afrique; Mayor, Sablé-sur-Sarthe 1959-, County Councillor 1967-, Pres. Cttee. of Econ. Expansion of La Sarthe 1973-; Gen. Chair. Regional Cttee., Loire Region; Vice-Pres. Automobile Club de l'Ouest; mem. Rassemblement pour la République. *Address:* c/o Assemblée Nationale, 75007 Paris; 68 rue du Général-Leclerc, 72300 Sablé-sur-Sarthe, France (Home).

LEUSSINK, Hans, DR.ING., DIPL.ING.; German administrator; b. 2 Feb. 1912, Schüttorf/Hann; ed. Technische Hochschule, Dresden and Technische Hochschule, Munich; Man. Soil Mechanics Inst., Technische Hochschule, Munich 1939-46; Construction eng. office 1946-54; Prof. and Dir. of Inst. for Soil Mechanics and Rock Mechanics, Univ. of Karlsruhe 1954-69, Rector, Technische Hochschule, Karlsruhe 1958-61; Pres. West German Conf. of Univ. Rectors, Bad Godesberg 1960-62; at Council of Europe, Strasbourg 1962-69; mem. German Scientific Council 1963-69, Chair. 1965-69; mem. Advisory Council for Science Policy of Fed. Govt. 1967-69; Dir. Krupp Foundation 1967-; Minister of Educ. and Science 1969-72; Dir. Volkswagen Foundation 1972-, Anglo-German Foundation 1973-, Friedrich Krupp GmbH 1974-; Sen. Max Planck Soc. 1972–; mem. J. McCloy Fund, N.Y. 1975-; Chair. Anglo-German Foundation. *Address:* 7500 Karlsruhe 41, Strählerweg 45, Federal Republic of Germany. *Telephone:* 0721 42668.

LEUTWILER, Fritz, DR.ECON.SC.; Swiss banker; b. 30 July 1924, Ennetbaden; m. Andrée Cottier 1951; one s. [illegible] d.; ed. Univ. of Zurich; Sec. Assen. for a Sound Currency 1948-52; with Swiss Nat. Bank 1952-, Dir. First Dept. 1959-66, Deputy Gen. Man. Third Dept. 1966-68, Head Third Dept. 1968-74, Pres. Bd. of Gen. Management, Head First Dept. 1974-; mem. Bd. of Dirs. Bank of Int. Settlements. *Address:* Swiss National Bank Börsenstrasse 15, 8022 Zurich; Weizenacher 4, 8126 Zumikon, Switzerland (Home). *Telephone:* 01-221-37-50 (Office); 01-918-03-36 (Home).

LEVARD, Georges; French trade union official; b. 24 March 1912, Paris; m. Marguerite Pardini 1939; three s. two d.; ed. Conservatoire National des Arts et Métiers; [illegible] Nat. Cttee. for Productivity; mem. Econ. Council 1947-, Vice-Pres. 1959-69; mem. Higher Council of the Plan; mem. several other councils; mem. Federal Bureau and Pres. of French and Democratic Confederation of Labour (C.F.T.C.) 1946-48, Asst. Sec.-Gen. 1948-53, Sec.-Gen. 1953-61, Pres. 1961-67; Pres. Section du travail et des relations professionelles du Conseil Economique et Social 1974; Dir. Banque Nationale de Paris; Conseiller d'Etat 1966-70; mem. Admin. Council Fondation de France 1969-, Ecole Nat. d'Administration 1971-76. *Publications:* L'âme du syndicalisme chrétien, Eléments d'action syndicale, Rapport sur la réforme de l'entreprise. *Leisure interests:* country walks, history. *Address:* 40 rue du Mont-Valérien, 92210 Saint-Cloud, France.

LEVASSEUR, Francis; French diplomatist; b. 29 Aug. 1914; ed. Inst. Saint-Aspais, Melun, Lycée de Nice, Law Faculty, Univ. of Paris, and Ecole Libre des Sciences Politiques; Chef de Cabinet to French Resident-Gen., Rabat 1945-48; Sub-Dir., Personnel Dept. Ministry of Foreign Affairs 1949-53; Counsellor, Rio de Janeiro 1953; Dir. du Cabinet, French Resident-Gen., Rabat 1954-55; Counsellor, Ottawa 1956-61; Sub-Dir. for African and Malagasy Affairs, Ministry of Foreign Affairs 1962-63, Asst. Dir. 1963; Amb. to Upper Volta 1963-67, to Colombia 1968-72, to Romania 1972-75; Officier Légion d'honneur, Croix de guerre. *Address:* 14 [illegible] de Rémusat, 75016 Paris; Château du Magny, 36150 Vatan, France.

LÉVÊQUE, Jean André Eugène; French aeronautical engineer; b. 30 April 1929, Béthune; s. of André and Elise (Forêt) Lévêque; m. Geneviève Cauwet 1953; two s.; ed. Ecole Polytechnique, Paris; with Air Navigation Directorate of Ministry of Public Works and Transport 1954-60, Eng. in Air Traffic Bureau 1954, Head of Airports Bureau 1956-60; Civil Aviation Tech. Adviser to Minister of Public Works and Transport 1960-63; Head of Div. in European Org. for the Safety of Air Navigation (EUROCONTROL), Brussels 1964-67; with Secretariat-General for Civil Aviation, Paris 1968-78, Tech. Adviser to Sec.-Gen. 1968-70, Acting Sec.-Gen. then Dir. of Air Navigation 1971-78; Dir.-Gen. EUROCONTROL 1978-; Chevalier, Légion d'honneur, Chevalier de l'Ordre national du Mérite, Médaille de l'Aéronautique. *Leisure interests:* skiing, table tennis. *Address:* European Organization for the Safety of Air Navigation (EUROCONTROL), 72 rue de la Loi, 1040 Brussels (Office); 266 C ave de Tervueren, 1150 Brussels, Belgium; and 13 rue Gambetta, 92100 Boulogne, France (Homes).

LEVER, Rt. Hon. Harold, LL.B.; (cr. Life Peer June 1979); British politician; b. 15 Jan. 1914, Manchester; s. of the late Bernard and Bertha Lever; m. Diane Zilkha 1962; three d. (and one d. by previous marriage); ed. Manchester Grammar School and Univ. of Manchester; M.P. 1945-79; Joint Parl. Under-Sec., Dept. of Econ. Affairs 1967; Financial Sec. to the Treasury 1967-69; Paymaster-Gen. 1969-70; Chair. Public Accounts Cttee. 1970-73; Opposition Front Bench Spokesman on European Affairs 1970-72, on Trade and Industry 1972-74; Chancellor of Duchy of Lancaster 1974-79; headed inquiry into problems of small firms; Labour. *Address:* House of Lords, London, S.W.1, England.

LÉVESQUE, Very Rev. Father Georges Henri, O.C., F.R.S.C.; Canadian ecclesiastic; b. 1903; ed. Ecole des Frères Maristes (Roberval), Séminaire de Chicoutimi, Coll. des Dominicains (Ottawa) and Catholic Univ. of Lille; Dominican Novitiate 1923-24, ordained Priest 1928; in Europe 1930-33; Lecturer, Coll. des Dominicains d'Ottawa 1933-38, Univ. of Montreal 1935-38, Laval Univ. 1936-62; Founder and first Dean, Faculty of Social Sciences, Laval Univ. 1938-55; Founder-Pres. Quebec Co-operative Council 1939-44; Founder, Ed. Ensemble magazine 1939-44, Les Cahiers de la Faculté des Sciences Sociales 1941; Exec. on Advisory Council to Minister of Labour 1941-51; Prédicateur Général of his Order 1943; mem. Royal Comm. on the devt. of art, sciences and letters in Canada 1949-51; Pres. Canadian Political Science Assen. 1951; Co-Dir. in India of the Int. Seminar of the World Univ. Service 1953; Rector of La Maison Montmorency 1955-63; Vice-Chair. Canada Council 1957-62; Fellow, Canadian Royal Soc. 1949; Founder, first Pres., Univ. Nat. du Rwanda 1963-71, Hon. Pres., Adviser 1971-; Dr. h.c. (Univs. of B.C., Manitoba, Antigonish, Toronto, W. Ont., St.-Joseph, Saskatchewan, Ottawa, Laval, Sherbrooke, McGill, Montreal and Nat. Univ. of Rwanda); Molson Prize, Canada Council; Chevalier Légion d'honneur, Order of Canada, Commdr. de l'Ordre des Mille Collines. *Publications include:* Capitalisme et Catholicisme 1936, Le pluralisme démocratique, condition de l'unité canadienne 1948, Culture et civilisation 1950, Humanisme et sciences sociales 1952, Le chevauchement des cultures 1955, Service social, Industrialisation et famille 1956, Youth and Culture To-day 1961, Les universités 1961, Mon itinéraire sociologique 1974. *Address:* 976 Rive Boisée, Pierrefonds, P.Q. H8Z 2Y7, Canada.

LÉVESQUE, René; Canadian journalist and politician; b. 24 Aug. 1922, New Carlisle, Gaspé Peninsula; s. of Dominifue Lévesque and Diane Dionne; m. Louise L'Heureux (divorced 1978); two s., [illegible] d.; ed. Univ. of Quebec, Laval Univ.; with int. service of Radio-Canada, French-language network of Canadian Broadcasting Corpn. (CBC) 1941-45; corresp. attached to U.S. Forces in Europe 1944-45; corresp. in Korea 1952; Head of CBC Radio and TV [illegible] reporting 1952-56, of weekly TV information programme 1956-59; Liberal mem. for Laurier, Quebec Legislative Assembly 1960-67, Parti Québecois mem. 1967-70; Minister of Public Works and Hydraulic Resources 1960-61, of Natural Resources 1961-66, of Family Affairs and Social Security 1965-66; co-founder, Mouvement Souveraineté-Association (French-speaking movement) 1967, Co-founder Parti Québecois 1967- (Pres. 1967-76); journalist, with daily political column 1970-76; Parti Québecois mem. for Taillon, Quebec Legislative Assembly and Premier of Quebec Nov. 1976-; Grand Officier, Légion d'honneur (France). *Publications:* Option Québec 1968, numerous political articles. *Leisure interests:* reading, films, tennis, swimming. *Address:* Office of the Premier, Hydro Bldg., Dorchester Boulevard, Montreal; and Government Bldgs., Quebec City; 91b d'Auteuil Street, Quebec City, Quebec, Canada (Home). *Telephone:* (514) 384-7110.

LEVEY, Michael Vincent, M.V.O., M.A.; British art historian; b. 8 June 1927, London; s. of the late O. L. H. Levey and Gladys Mary Milestone; m. Brigid Brophy (*q.v.*) 1954; [illegible] d.; ed. Oratory School and Exeter Coll., Oxford; officer, British Army 1945-48; Asst. Keeper Nat. Gallery 1951-66, Deputy Keeper 1966-68, Keeper 1968-73. Deputy Dir. 1970-73, Dir. 1973-; Slade Prof. of Art Cambridge Univ. and Fellow of King's Coll. Cambridge 1963-64; Hon. Fellow, Exeter Coll., Oxford. *Publications:* Edited Nat. Gallery Catalogues: 18th Cent. Italian Schools 1956, The German School 1959, Painting in XVIIIth c. Venice 1959; From Giotto to Cézanne 1962, Later Italian Pictures in the Royal Collection 1964, Dürer 1964, A Room-to-room Guide to the National Gallery 1964, Rococo to Revolution 1966, Fifty Works of English and American Literature We Could do Without (with Brigid Brophy and Charles Osborne) 1967, Bronzino 1967, Early Renaissance 1967 (awarded Hawthornden Prize 1968), A History of Western Art 1968, Holbein's Christina of Denmark, Duchess of Milan 1968, 17th and 18th Cent. Italian Schools (Nat. Gallery Catalogue) 1971, Painting at Court 1971, The Life and Death of Mozart 1971, Art and Architecture in 18th Cent. France (co-author) 1972, High Renaissance 1975, The World of Ottoman Art 1976, The Case of Walter Pater 1978, Velazquez and Murillo 1978. *Address:* 185 Old Brompton Road, London, S.W.5, England.

LEVI, Arrigo, PH.D.; Italian journalist and political writer; b. 17 July 1926, Modena; s. of Enzo and Ida (Donati) Levi; m. Carmela Lenci 1952; one d.; ed. Univs. of Buenos Aires and Bologna; refugee in Argentina 1942-46; Negev Brigade, Israeli Army 1948-49; BBC European Services 1951-53; London Corresp. Gazzetta del Popolo and Corriere d'Informazione 1952-59; Moscow Corresp. Corriere della Sera 1960-62; news anchor man on Italian State Television 1966-68; special corresp. La Stampa 1969-73, Editor in Chief 1973-78, special corresp. 1978-; columnist on int. affairs, The Times 1979-; Premio Marconi, Premio Saint Vincent. *Publications:* Il potere in Russia 1965, Journey [illegible] the Economists 1972. *Address:* c/o The Times, New Printing House Square, Gray's Inn Road, London, WC1, England.

LEVI, Doro, PH.D.; Italian archaeologist; b. 1898, Trieste; s. of Eduardo and Eugenia Tivoli; m. Anna Cosadinou 1928; ed. Florence and Rome Univs.; mem. Italian Archaeological School, Athens 1921-23; conducted excavations in Crete 1924 and in Chiusi, Vetulonia, Volterra, Massa Marittima 1926-31; Insp. of Antiquities in Florence 1926, later Dir.; Organizer Italian Mission in Mesopotamia 1930, first expedition to Kakzu (Assyria) 1933; Lecturer Florence Univ. 1931; Prof. of Archaeology and History of Classical Art in Univ. of Cagliari 1935; Dir. of Art and Antiquities in Sardinia; Dir. Museums of Cagliari and Sassari 1935-38; mem. Inst. for Advanced Study, Princeton, N.J.; lectureships at Princeton and Harvard Univs. 1939-

45; Guggenheim Fellow 1941-43; Dir. Italian Archaeological School at Athens 1947-77; conducted excavations at Phaistos, Gortyna, Crete, Iasos in Anatolia, etc.; mem. Accad. dei Lincei, Rome, Acad. of Athens, The New York Acad. of Sciences, Pontifical Archaeological Acad.; hon. mem. German Archaeological Inst.; hon. Vice-Pres. Greek Archaeological Soc. *Publications:* Arkades, Una Città Cretese all'alba della civiltà ellenica (Annuario Scuola It. di Atene X-XII), La necropoli etrusca del Lago dell' Accesa (in Monumenti Antichi Lincei XXXV) 1933, Corpus Vasorum Antiquorum: Florence I-II, Il Museo Civico di Chiusi 1935, Early Hellenic Pottery of Crete 1945, Antioch Mosaic Pavements 1947, L'ipogeo di S. Salvatore di Cabras in Sardegna 1949, L'arte romana 1950, L'archivio di cretule a Festos, etc. (Annuario Scuola Atene XXXV-XXXVI 1957-58) and other papers in Annuario, Bollettino d'Arte, La Parola del Passato, The Recent Excavations at Phaistos 1964, Festòs e la civilità minoica (4 vols.) 1976-77. *Address:* 64 Veïkou Street, Athens, Greece. *Telephone:* 9220760.

LEVI, Edward Hirsch; American lawyer and university professor; b. 26 June 1911, Chicago; s. of Gerson B. and Elsa B. Hirsch; m. Kate Sulzberger 1946; three s.; ed. Univ. of Chicago and Yale; Asst. Prof. Univ. of Chicago Law School 1936-40, Prof. of Law 1945-75, Dean of Law Faculty 1950-62, Provost 1962-68, Pres. 1968-75; Karl Llewellyn Distinguished Service Prof. in Jurisprudence (on leave) 1975-77; Glen A. Lloyd Distinguished Service Prof. in Law School and Coll. 1977-; Special Asst. to U.S. Attorney-Gen., Washington 1940-45; mem. Research Advisory Bd., Cttee. for Econ. Devt. 1951-54, Citizens' Comm. on Graduate Medical Educ. 1963-66; White House Council on Domestic Affairs 1964, several comms. on internal affairs 1966-71; mem. Council on Legal Educ. and Professional Responsibility, Nat. Comm. on Productivity and Work Quality 1970-74; Attorney-Gen. 1975-77; Trustee, Aspen Inst. for Humanistic Studies, Nat. Council on the Humanities 1974-75; Fellow, American Acad. of Arts and Sciences, American Philosophical Soc., American Bar Foundation; mem. Council of American Law Inst.; Hon. Trustee, Int. Inst. of Educ. *Publications:* Introduction to Legal Reasoning 1949, Four Talks on Legal Education 1952, Ed. Gilbert's Collier on Bankruptcy (with J. W. Moore) 1937, Elements of the Law (with R. S. Steffen) 1950, Points of View 1969, The Crisis in the Nature of Law 1969, The Place of Professional Education in the Life of the University 1971, The Collective Morality of Maturing Society 1973. *Address:* The University of Chicago, 1116 East 59th Street, Harper Library, Chicago, Ill. 60637; 4950 Chicago Beach Drive, Chicago, Ill. 60615, U.S.A. (Home). *Telephone:* 312-753-2456.

LEVI-SANDRI, Lionello, LL.D.; Italian politician and government official; b. 5 Oct. 1910; fmr. Prof. of Labour Law, Univ. of Rome: fmr. official in Ministry of Labour and Transport; del. to numerous int. labour confs.; Pres. of Section, State Council; mem. Comm. of the European Econ. Community, Brussels 1961-64, Vice-Pres. 1964-67, Vice-Pres. Combined Comm. of the European Communities 1967-70. *Publications:* I controlli dello Stato sulla produzione industriale 1938, Gli infortuni sul lavoro 1952, Linea di una teoria giuridica della previdenza sociale 1953, La tutela dell'igiene della sicurezza del lavoro 1954, Lezioni di diritto del lavoro 1962, Istituzioni di legislazione sociale 1966. *Address:* c/o Ministry of Foreign Affairs, Rome, Italy.

LÉVI-STRAUSS, Claude; French anthropologist, university professor and writer; b. 28 Nov. 1908, Brussels, Belgium; s. of Raymond Lévi-Strauss and Emma Lévy; m. 1st Dina Dreyfus 1932; m. 2nd Rose Marie Ullmo 1946, one s.; m. 3rd Monique Roman 1954, one s.; ed. Lycée Janson de Sailly, Paris, and Univ. de Paris à la Sorbonne; Prof. Univ. of São Paulo, Brazil 1935-39; Visiting Prof. New School for Social Research, New York 1942-45; Cultural Counsellor, French Embassy to U.S.A. 1946-47; Assoc. Dir. Musée de l'Homme, Paris 1949-50; Dir. of Studies, Ecole Pratique des Hautes Etudes, Paris 1950-74; Prof. Collège de France 1959-; mem. Acad. Française; Foreign mem. Royal Acad. of the Netherlands, Norwegian Acad. of Sciences and Letters, American Acad. of Arts and Sciences, British Acad.; Foreign Assoc. U.S. Nat. Acad. of Sciences; Hon. mem. Royal Anthropological Inst., American Philosophical Soc., and London School of Oriental and African Studies; Dr. h.c. (Univ. of Brussels, Yale, Chicago, Columbia, Oxford, Stirling, Zaire); Prix Paul Pelliot 1949; Huxley Memorial Medal 1965, Viking Fund Gold Medal 1966, Gold Medal Centre National de la Recherche Scientifique 1967; Erasmus Prize 1973; Commdr. Légion d'honneur. *Publications:* La vie familiale et sociale des indiens Nambikwara 1948, Les structures élémentaires de la parenté 1949, Tristes tropiques 1955, Anthropologie structurale 1958, Le totémisme aujourd'hui 1962, La pensée sauvage 1962, Le cru et le cuit 1964, Du miel aux cendres 1967, L'origine des manières de table 1968, L'homme nu 1971, Anthropologie structurale deux 1973, La voie des masques 1975. *Leisure interest:* country life. *Address:* Laboratoire d'Anthropologie Sociale, Collège de France, 11 place Marcelin-Berthelot, 75231 Paris, Cedex 05 (Office); 2 rue des Marronniers, 75016 Paris, France (Home). *Telephone:* 329-12-11 (Office); 288-34-71 (Home).

LEVIE, Dr. Simon Hijman; Dutch historian; b. 17 Jan. 1925, Rheden; m. Mary Levie-Lion 1955; s. two d.; ed. Univ. of Basel, Switzerland; worked at Keeper, Centraal Museum, Utrecht, and Dir., Historical Museum, Amsterdam; now Dir. Gen. Rijksmuseum, Amsterdam. *Address:* Rijksmuseum, Hobbemastraat 21, Amsterdam; Chopinstraat 29, Amsterdam, Netherlands (Home). *Telephone:* 020-76-21-21 (Office); 020-71-88-95 (Home).

LEVIN, Harry (Tuchman), A.B.; American teacher and writer; b. 18 July 1912, Minneapolis, Minn.; s. of I. H. Levin and Beatrice Tuchman; m. Elena Zarudnaya 1939; one d.; ed. Univs. of Harvard and Paris; instructor in English, Harvard Univ. 1939-44; Assoc. Prof. 1944-48, Prof. 1948-55; Prof. of English and Comparative Literature 1955-60; Chair. Dept. of Comparative Literature 1946-51, 1953-54, 1960-61, 1963-69, 1972-73, 1977-78; Chair. Div. of Mod. Languages 1951-52, 1955-61; Irving Babbitt Prof. Comparative Literature 1960-; Visiting Prof. Univ. of Paris 1953, Salzburg Seminar in American Studies 1953, Univ. of Tokyo 1955, Univ. of Calif. (Berkeley) 1957, Princeton Univ. 1961, Ind. Univ. 1967, Cambridge Univ. 1967; Visiting Fellow All Souls, Oxford 1974; Chair. English Inst. 1957; Vice-Pres. Int. Comparative Literature Assn. 1964-67; Pres. Amer. Comparative Literature Assn. 1965-68; Pres. Modern Humanities Research Assn. 1976-77; mem. American Inst. Arts and Letters 1960, American Acad. of Arts and Sciences 1950-, American Philosophical Soc. 1961-, Royal Netherlands Acad. of Arts and Sciences Hon. Litt., LL.D., L.H.D., Dr. h.c. (Univ. of Paris) 1974; Award of the American Inst. of Arts and Letters 1947; Award of American Council of Learned Socs. 1962; Chevalier Légion d'honneur. *Publications:* The Broken Column: A Study in Romantic Hellenism 1931, James Joyce: A Critical Introduction 1941, The Overreacher: A Study of Christopher Marlowe 1952, Symbolism and Fiction 1956, Contexts of Criticism 1957, The Power of Blackness: Hawthorne, Poe, Melville 1958, The Question of Hamlet 1959, The Gates of Horn: A Study of Five French Realists 1963, Refractions: Essays in Comparative Literature 1966, The Myth of the Golden Age in the Renaissance 1969, Grounds for Comparison 1972, Shakespeare and the Revolution of the Times: Perspectives and Commentaries 1976. *Leisure interests:* theatre, travel, Cape Cod. *Address:* 400 Boylston Hall, Harvard University, Cambridge, Mass. 02138 (Office); 14 Kirkland Place, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 617-495-2543 (Office); 617-876-0289 (Home).

LEVINE, Jack; American artist; b. 3 Jan. 1915; m. Ruth Gikow 1946; one d.; studied with Dr. Denman W. Ross, and H. K. Zimmerman; one-man exhibition Downtown Gallery, New York 1938; Artists 1942 Exhbn., Museum of Modern Art, New York 1943; exhibited at Jeu de Paume, Paris 1938; Carnegi Int. Exhbn. 1938, 1939, 1940; Retrospective Exhbns. Inst. of Contemporary Art, Boston 1953, Whitney Museum of American Art, New York 1955, Palacio de Bellas Artes, Mexico 1960; Dunn Int. Exhbn., Tate Gallery, London 1963; one-man exhbn. The Jewish Museum, New York 1978-79; pictures in Museum of Modern Art, William Hayes Fogg Museum (Harvard), Addison Gallery, Andover, Mass., Vatican Museum, etc.; Nat. Acad. of Arts and Letters, American Acad. of Arts and Sciences; D.F.A. Colby Coll., Maine. *Address:* 68 Morton Street, New York, N.Y., U.S.A. *Telephone:* Yukon 9-5990.

LEVINE, James; American musician; b. 23 June 1943, Cincinnati, Ohio; s. of Lawrence M. and Helen Goldstein Levine; ed. Walnut Hills High School, Juilliard School of Music; Asst. Conductor, Cleveland Orchestra 1964-70; Prin. Conductor, Metropolitan Opera, New York 1974-76, Music Dir. 1976-; Music Dir. Ravinia Festival 1972-, Cincinnati May Festival 1973-; Guest Conductor Berlin Philharmonic, Vienna Philharmonic, New York Philharmonic, Boston Symphony, Philadelphia Orchestra, Los Angeles Philharmonic, Cleveland and Chicago Symphony Orchestras, RAI Orchestra of Rome, Salzburg and Aspen Festivals; Hon. Dr. (Cincinnati Univ.). *Recordings include:* Giovanna d'Arco (Verdi), I Vespri Siciliani (Verdi), Il Barbiere di Siviglia (Rossini), Norma (Bellini), La Forza del destino (Verdi), Symphonies 1, 3, 4, 5, 6, 10 (Mahler), Symphonies 1-4 (Brahms), Otello (Verdi), Adriana Lecouvreur (Cilea), Andrea Chenier (Giordano), Cavalleria Rusticana (Mascagni), and several "Music from Ravinia" recordings, also piano accompanist to Lynn Harrell. *Address:* c/o Metropolitan Opera, New York, N.Y. 10023; and Columbia Artists' Managements, 165 West 57th Street, New York, N.Y. 10019, U.S.A. *Telephone:* 212-799-3100 (Opera); 212-397-6900 (Agent).

LEVINE, Philip, M.D., M.A.; American medical scientist; b. 10 Aug. 1900, Kletsk, Russia; s. of Morris and Faye Levine; m. Hilda Lillian Perlmutter 1938 (deceased); three s. (one deceased) one d.; ed. City Coll. of New York and Cornell Univ.; Asst. and later Assoc. Rockefeller Inst. for Medical Research and mem. of Faculty, Univ. of Wis. Medical School 1932-35; Dir. Immunohematology Div., Ortho Research Foundation 1944-65, Dir. Emer. 1965-76; Consultant 1976-; Visiting Investigator at Sloan Kettering Cancer Inst. 1976-; Consultant to St. Michael's, St. Barnabas, Nassau and Muhlenberg Hospitals; discovered genetics and racial differences of human blood M, N and P (with Landsteiner); human Rh blood factor and its role in hemolytic disease, and several other blood factors; Editorial Bd. Transfusion, Vox Sanguinis, Acta Haematologica, Columbia Univ. Seminar, Assoc. on Genetics and Evolution of Man; mem. A.A.A.S., N.Y. Acad. of Medicine, Soc. of Experimental Biology and Medicine, Nat. Acad. of Sciences, Harvey Soc., Int. Soc. of Hematology and Blood Transfusion, etc.; Hon. mem. New York Acad. of Sciences 1977; Gehrman Lecture, Univ. of Ill. Coll. of Medicine 1975; Visiting Fellow, Cornell Univ. Medical Coll. 1978; Hon. D.Sc. Michigan State Univ.; awards include Mead Johnson Award 1942, Passano Award 1951, Johnson Medal for Research and Devt. 1960, first Franz Oehlecker Award of German Soc. of Blood Transfusion 1964, Clement von Pirquet Gold Medal 1966, Award of Distinction Cornell Alumni Medical Coll. 1968, Distinguished Service Award American Assn. of Blood Banks 1969, F.R.C.P. London 1973, Award of Merit, Netherlands Red Cross, Joseph P. Kennedy Int. Award, Award of N. J. Hosp. Assn. 1979, McNeil Lecturer Award 1979. *Publications:* works on cancer and cancer treatment. *Leisure interests:* travel, music, chess, biographical literature, history of medicine, history of cultural development. *Address:* Sloan Kettering Cancer Inst., East 68th Street at York Avenue, N.Y.C. 10021; The Research Foundation, Raritan, N.J. 08869; South East 66th Street, New York, N.Y. 10021 (Home). *Telephone:* 212-794-7468 (Cancer Inst.), (201) 524 2203 (Research Foundation); 212-737-7100 (Home).

LEVINGSTON, Gen. Roberto Marcelo; Argentine army officer and politician; b. 10 Jan. 1920, San Luis; s. of Guillermo Levingston and Carmen Laborda; m. Betty Nelly Andrés 1943; two s. (one deceased) one d.; ed. Pius IX Coll., Nat. Mil. Coll., Army Intelligence School, Escuela Superior de Guerra and Center for High Mil. Studies; entered army as cadet, Nat. Mil. Coll. 1938, Sub-Lieut. 1941, Brig.-Gen. 1966; Army Information Officer 1947-50; mem. Gen. Staff 1951-57; Prof., Escuela Superior de Guerra 1958-62; Head of Army Information Services 1963-64; Dir.-Gen. Lemos School of Logistics 1965-66; Head of Intelligence of Joint Chiefs of Staff 1967-68; Mil. Attaché Army del. to Interamerican Defense Bd. and Pres. Special Comm. on Acquisitions in U.S.A. 1969-70; Pres. and Prime Minister of Argentina 1970-71; Pres. Circle of Studies of Nat. Argentine Movement. *Publications:* political and military works. *Leisure interests:* reading of all kinds, particularly on politics, economics and military subjects, music and sport. *Address:* 11 de Septiembre 1735-17 A, Buenos Aires, Argentina. *Telephone:* 782-4433 (Home).

LEVINTHAL, Cyrus, PH.D.; American professor of biology; b. 2 May 1922, Philadelphia, Pa.; s. of Hon. Louis E. and Lenore C. Levinthal; m. Françoise Chassaigne Levinthal 1963; five c.; ed. Swarthmore Coll. and Univ. of California (Berkeley); Instructor, Dept. of Physics, Univ. of Mich. 1950-52, Asst. Prof. 1952-56, Assoc. Prof. 1956-57; Prof. of Biophysics, M.I.T. 1957-68; Prof. of Biology and Chair. Dept. of Biological Sciences, Columbia Univ. 1968-71; holder of William R. Kenan, Jr. Chair at Columbia; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Inst. of Medicine. *Publications:* numerous articles in professional journals. *Address:* Department of Biological Sciences, 754 Schermerhorn Extension, Columbia University, New York, N.Y. 10027, U.S.A. (Office). *Telephone:* 212-280-2439.

LÉVIS MIREPOIX, Antoine Pierre Marie François Joseph, Duc de Lévis Mirepoix et de San Fernando Luis; French writer; b. 1 Aug. 1884; ed. Univ. of Paris; elected mem. Acad. Française 1953; Président du Cincinnati de France; Gobert History Prize; Commdr. de la Légion d'honneur; Croix de guerre. *Publications:* Novels: Le papillon noir, Le nouvel apôtre, Le baiser de l'Antéchrist, Le seigneur inconnu, Le voyage de Satan, La vie des poupées; historical novel: Montségur; memoirs: La Touche Tréville à Naples, La politesse, historical works: François Ier, Philippe le Bel, Les trois femmes de Philippe Auguste, Sainte Jeanne de France, La France de la Renaissance, Les guerres de religion, Le coeur secret de Saint-Simon, Vieilles races et temps nouveaux, Aventures d'une famille française, Grandeur et misère de l'individualisme français, Le roi n'est mort qu'une fois, Saint Louis, roi de France, Henri IV, roi de France et de Navarre, La guerre de cent ans, La France féodale. *Address:* 30 rue de Berri, 75008 Paris; Léran, 09600 Laroques-d'Olmes, France.

LEVY, Maurice, O.M.; French scientist and university professor; b. 1922, Tlemcen, Algeria; m.; two s.; ed. Lycée Bugeaud, Algiers and Univs. of Paris and Algiers; Physicist, Nat. Centre of Scientific Research, Paris 1945-48; Research Fellow, Manchester Univ. 1948-50; mem. Inst. of Advanced Study, Princeton Univ. 1950-52, 1954-55, 1962; fmrly. Visiting Prof. Stanford and Rochester Univs., Calif. Inst. of Technology and Tata Inst. of Fundamental Research, Bombay; Prof. Bordeaux Faculty of Science and later Prof. of Theoretical Physics and High Energies, Paris Faculty of Science; served as Scientific Adviser to French Embassy, Wash.; Dir. Programming Service for Research Orgs., Ministry of Industrial and Scientific Devt.; Chair. Council of ESRO 1972-75. *Publications:* include studies on theoretical nuclear physics and on the theory of elementary particles. *Address:* 174 rue de Rivoli, 75001 Paris, France (Home).

LEVY, Raymond Haïm, M.S.; French oil company executive; b. 28 June 1927, Paris; s. of Sam and Rachel Levy; m. Jacqueline Schwartz 1955; three s. one d.; ed. Ecole Polytechnique, Ecole des Mines de Paris, M.I.T.; engineer in coal mines in north of France 1952-53, in Public Mines Service 1953-57; Chief Eng., Régie Autonome des Pétroles (RAP) 1957-65; Gen. Man. of Exploration and Production, ERAP-ELF 1966-72; Gen. Man. ELF Union 1972-75; Chair. and Pres. ELF Union and SOCANTAR 1976-; Chair. and Pres. ELF France 1975-; Vice-Pres. and Gen. Man. ERAP-SNEA (Soc. Nat. Elf Aquitaine) 1976-; Chevalier Légion d'honneur, Chevalier Ordre nat. du Mérite. *Address:* Société Nationale Elf Aquitaine, 7 rue Nélaton, 75015 Paris (Office); 40 rue de Garches, 92420 Vaucresson, France (Home). *Telephone:* 578-61-00 (Office).

LEVY, Walter James, C.M.G., LL.D.; American oil consultant; b. 21 March 1911, Hamburg, Germany; s. of Moses and Bertha Levy (née Lindenberger); m. Augusta Sondheimer 1942; one s. one d.; ed. Univs. of Berlin, Freiburg, Munich, Hamburg, Heidelberg and Kiel; Asst. to Ed., Petroleum Press Bureau, London 1937-41; Special Asst. and Chief, Petroleum Section, Office of Strategic Services; mem. of Enemy Oil Cttee. under Joint Chiefs of Staff 1942-44; Special Asst. Office of Intelligence Research, Dept. of State 1945-48; Consultant, Office of Deputy Admin., Chief of Oil Branch, Econ. Co-operation Admin. 1948-49; Econ. Consultant N.Y. Sept. 1949-; Consultant ECA 1949-50; Consultant, President's Materials Policy Comm. 1951-; U.S. Oil Adviser, missions to Iran, July-Sept. 1951; Consultant, Nat. Security Resources Bd. 1952; and Policy Planning Staff 1952-53; Consultant to Int. Co-operation Admin. 1956-57, to Dept. of State and Office of Civil and Defense Mobilization 1960-, to Dept. of State, Office of Under-Sec. and Asst. Secs. 1960–; Oil Adviser to the Special Emissary and Pres. Kennedy to the Pres. of Indonesia 1963; Consultant to the EEC 1970; mem. Advisory Council to School of Advanced Int. Studies, Johns Hopkins Univ.; mem. Council on Foreign Relations Inc.; President's Cert. of Merit, Special Plaque presented by Sec. of State; Dato Selia Laila Jasa, Brunei, Order of Taj (Iran). *Address:* 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A. *Telephone:* 212-JU6-5263.

LEWANDO, Sir Jan Alfred, Kt., C.B.E., F.B.I.M., F.R.S.A.; British business executive; b. 31 May 1909; s. of Maurice and Eugénie (née Goldsmid) Lewando; m. 1948; three d.; ed. Manchester Grammar School and Manchester Univ.; served British Army in Europe, Middle East and Far East 1939-45, Army Staff in Washington D.C. and British Ministry of Supply Mission 1941-45; with Marks & Spencer Ltd. 1929-70, Dir. 1954-70; mem. CBI 1960-70, Export Council for Europe 1965-69, British Nat. Export Council 1969-71, Council of CBI 1970-75, British Overseas Trade Board 1972-77, 1978-, British Overseas Advisory Council 1975-77, European Trade Cttee.; Pres. British Textile Confed. 1972-73; Chair. Carrington Viyella Ltd. 1970-75, Consolidated Textile Mills Ltd., Canada 1972-75, Gelvenor Textiles Ltd., South Africa 1973-75; Dir. Carrington Tesit, Italy 1971-75, Heal & Son Holdings Ltd. 1975-, Bunzl Pulp & Paper Ltd. 1975-, W. A. Baxter & Sons Ltd. 1976-, Johnston Industries Inc., U.S.A. 1976-, Edgars Stores Ltd., South Africa 1976-; Vice-Pres. Transport Trust 1975-; Legion of Merit (U.S.A.) 1946; Companion Textile Inst. 1972-. *Address:* Davidge House, Knotty Green, Beaconsfield, Bucks., England.

LEWANDOWSKI, Bohdan, M.A.; Polish diplomatist; b. 29 June 1926, Ostrołęka; m. Helen M. Harris 1948; two d.; ed. Acad. of Political Sciences, Warsaw and Warsaw Univ.; Ministry of Foreign Affairs, Warsaw 1945-46; Polish Foreign Service in United States 1946-48; Head, N. America Section, Ministry of Foreign Affairs 1951-56; Deputy Dir. Dept. for U.K. and America 1956-60; Polish Rep. UN Security Council 1960; Perm. Rep. of Poland to UN 1960-

66; Dir. of Research Bureau, Ministry of Foreign Affairs 1966-67; Deputy Head, Foreign Dept., Polish United Workers' Party 1967-71; Dir.-Gen. Ministry of Foreign Affairs 1971-72; Under Sec.-Gen. of UN 1972-. *Address:* United Nations Secretariat, New York, N.Y. 10017, U.S.A.

LEWIN, Admiral Sir Terence Thornton, G.C.B., M.V.O., D.S.C., F.B.I.M.; British naval officer; b. 19 Nov. 1920, Dover; s. of Eric Lewin; m. Jane Branch-Evans 1944; two s. [illegible] d.; ed. The Judd School, Tonbridge; [illegible] service in Home and Mediterranean Fleets in H.M.S. Valiant, H.M.S. Ashanti in Malta Convoys, N. Russian Convoys, invasion N. Africa and Channel (mentioned in despatches); Command, H.M.S. Corunna 1955-56; Commdr. H.M. Yacht Britannia 1957-58; Captain, Dartmouth Training Sqn. and H.M.S. Urchin, H.M.S. Tenby 1961-63; Dir. Naval Tactical and Weapons Policy Div. of Ministry of Defence 1964-65; Command, H.M.S. Hermes 1966-67; Asst. Chief of Naval Staff (Policy) 1968-69; Rear-Adm. 1968; Flag Officer, Second-in-Command, Far East Fleet 1969-70; Vice-Adm. 1970; Vice-Chief of Naval Staff 1971-73; Adm. 1973; C.-in-C. Fleet, NATO C.-in-C. Channel and C.-in-C. Eastlant 1973-75; C.-in-C. Naval Home Command 1975-77; Chief of Naval Staff and First Sea Lord 1977-79; Chief of Defence Staff (Sept. 1979-); First and Principal ADC to H.M. the Queen; Elder Brother, Trinity House 1975; Hon. Freeman, Skinners' Co. 1976, of City of London 1976. *Leisure interests:* carpentry, golf, walking. *Address:* Mall House Flat, Admiralty Arch, Whitehall, London, S.W.1., England. *Telephone:* 01-930 4146.

LEWIS, Sir Anthony Carey, Kt., C.B.E., M.A., MUS.B.; British professor of music; b. 2 March 1915, Bermuda; s. of Col. L. C. Lewis, O.B.E. and Mrs. K. B. Lewis; m. Lesley Lisle Smith 1959; ed. Wellington Coll. and Peterhouse, Cambridge; on music staff, B.B.C. 1935-46 (Music Supervisor, Third Programme 1946); Peyton and Barber Prof. of Music, Univ. of Birmingham 1947-68, Dean Faculty of Arts 1961-64; Prin., Royal Acad. of Music 1968-; Chair. Music Panel, Arts Council 1954-65; Pres. Royal Musical Assn. 1964-69; Chair. Advisory Music Panel, British Council 1966-73; Founder and Gen. Ed. Musica Britannica; Gov. Wellington Coll.; Chair. Purcell Soc.; Hon. R.A.M.; Hon. Mus.D. (Birmingham). *Works:* Compositions: A Tribute of Praise (for Unaccompanied Chorus), Concerto for Trumpet and Orchestra, Concerto for Horn and Strings; Ed.: Venus and Adonis (Blow), The Fairy Queen (Purcell), Apollo and Daphne and Athaliah (Handel), Opera and Church Music 1630-1750 (with Nigel Fortune) 1976. *Leisure interest:* gardening. *Address:* Royal Academy of Music, Marylebone Road, London NW1 5HT, England. *Telephone:* 01-935 5461.

LEWIS, Sir Arthur (see Lewis, Sir William Arthur).

LEWIS, Bernard, B.A., PH.D., F.B.A., F.R.HIST.S.; British university professor; b. 31 May 1916, London; ed. Univs. of London and Paris; Lecturer in Islamic History, School of Oriental Studies, Univ. of London 1938; served R.A.C. and Intelligence Corps 1940-41; attached to Foreign Office 1941-45; Prof. of History of the Near and Middle East, Univ. of London 1949-74; Visiting Prof. of History, Univ. of Calif. at Los Angeles 1955-56, Columbia Univ. 1960, Ind. Univ. 1963, Princeton Univ. 1964, Univ. of Calif. at Berkeley 1965; Visiting mem. Inst. for Advanced Study, Princeton 1969; Cleveland E. Dodge Prof. of Near Eastern Studies, Princeton Univ.; Long-term mem. Inst. for Advanced Study 1974-. *Publications:* The Origins of Ismā'ilism 1940, Turkey Today 1940, British Contributions to Arabic Studies 1941, Handbook of Diplomatic and Political Arabic 1947, 1956, Land of Enchanters (Ed.) 1948, The Arabs in History 1950, Notes and Documents from the Turkish Archives 1952, The Emergence of Modern Turkey 1961, 1962, 1965, 1968, The Kingly Crown 1961, Historians of the Middle East (co-editor with P.M. Holt) 1962, Istanbul and the Civilization of the Ottoman Empire 1963, The Middle East and the West 1964, The Assassins 1967, Race and Colour in Islam 1971, Islam in History 1973, Ed. Islamic Civilization 1974, Islam from the Prophet Muhammad to the Capture of Constantinople (2 vols.) 1974, History—Remembered, Recovered, Invented 1975, The World of Islam (Ed.) 1976, Population and Revenue in the Towns of Palestine in the Sixteenth Century (with Amnon Cohen) 1978. *Address:* Department of Near Eastern Studies, Princeton University, Princeton, N.J. 08540, U.S.A. *Telephone:* (609) 452-4275.

LEWIS, Dan, PH.D., D.SC., F.R.S.; British geneticist; b. 30 Dec. 1910, Stoke-on-Trent; s. of Ernest Albert and Edith Jane Lewis; m. Mary P. E. Burry 1933; one d.; ed. High School, Newcastle under Lyme, and Univs. of Reading and London; plant breeder, John Innes Inst. 1935, Head Dept. of Genetics 1947; Quain Prof. of Botany, Univ. Coll., London 1957-78, Prof. Emer. 1978-; Visiting Prof. of Genetics, Univ. of Calif., Berkeley 1961, Delhi 1965, Singapore 1970; Pres. Genetical Soc. 1968-71; mem. Univ. Grants Cttee. 1968-74. *Publications:* Articles on genetics; Ed. Science Progress. *Leisure interests:* wine and music. *Address:* Department of Botany and Microbiology, University College, London, W.C.1; Flat 2, 56/57 Myddleton Square, London, EC1R 1YA, England (Home). *Telephone:* 01-387 7050 (Office); 01-228 6948 (Home).

LEWIS, David, B.A.; Canadian barrister and politician; b. 23 June 1909, Poland; s. of Morris Lewis and Rose (née Lazarus) Lewis; m. Sophie Carson 1935; two s. two d.; ed. McGill Univ., Canada, and Oxford Univ.; admitted to Bar in Canada 1936; Nat. Sec. Co-operative Commonwealth Fed. of Canada 1937-50, Vice-Chair. 1950-54, Chair. 1954-58, Pres. 1958-61; Counsel, law firm of Armstrong & MacLean, Toronto; helped found New Democratic Party, Nat. Vice-Pres. 1961-71, Leader 1971-74; mem. Parl. 1962-63, 1965-68, 1968-74. *Publication:* Make This Your Canada (co-author). *Address:* Jolliffe, Armstrong & MacLean, Suite 419, 111 Richmond Street W., Toronto 1, Ont. (Office); 138 Rodney Crescent, Ottawa 5, Canada (Home).

LEWIS, David Sloan, Jr., B.S.; American business executive; b. 6 July 1917; s. of David Sloan Lewis, Sr. and Reuben (Walton) Lewis; m. Dorothy Sharpe 1941; three [illegible] one d.; ed. Univ. of S. Carolina and Georgia Inst. of Technology; Aerodynamicist, Glenn L. Martin Co., Baltimore 1939-46, McDonnell Aircraft Corpn., St. Louis 1946-70, Chief Preliminary Design 1952-55, Sales Man. 1955-57, Vice-Pres. and Project Man. 1957-60, Sr. Vice-Pres. Operations 1960-61, Exec. Vice-Pres. 1961, Vice-Pres. and Gen. Man. 1961-62, Pres. 1962-67; Pres. McDonnell Douglas Co. and Chair. Douglas Aircraft Co. Div. 1967-70; Chair., Pres. and Chief Exec. Officer Gen. Dynamics Corpn. 1970-; Dir. Bankamerica Corpn., Ralston Purina Co.; Fellow, A.I.A.A.; mem. Exec. Cttee. and Bd. of Govs. Aerospace Industries Assn., Nat. Acad. of Eng.; Hon. D.Sc. *Leisure interest:* golf. *Address:* General Dynamics Corporation, Pierre Laclede Center, St. Louis, Mo. 63105, U.S.A.

LEWIS, Sir Edward Roberts, Kt.; British stockbroker and businessman; b. 19 April 1900, Derby; s. of late Sir Alfred Lewis; m. 1st Mary Margaret Hutton 1923 (died 1968), two s. (one deceased); m. 2nd Jeanie Margaret Smith 1973; ed. Rugby School, and Trinity Coll., Cambridge; mem. London Stock Exchange 1925-; Chair. Decca Ltd., The Decca Navigator Co. Ltd. 1945-, Decca Radar Co. Ltd. 1950-, The Decca Record Co. Ltd. 1957-, Decca Survey Ltd. *Address:* 9 Albert Embankment, London, S.E.1, England.

LEWIS, Hobart Durbin; American magazine executive; b. 19 Dec. 1909, New York; s. of Paul Adin and Louise (Durbin) Lewis; m. 1st Janet Brown 1933, 2nd Edith Louise Miller 1950; two s. two d.; ed. Princeton Univ.; Instructor Mercer Junior Coll., Princeton 1934-38; Advertising Copy Writer N. W. Ayer and Son, Philadelphia 1938-42; joined Reader's Digest 1942, Exec. Ed., Vice-Pres. 1961-64, Exec. Ed., Pres. 1964-70, Ed.-in-Chief, Chair., Chief Exec. 1970-76; Chair. Reader's Digest Assn. 1973-76; Vice-Chair. American Revolution Bicentennial Comm.; Trustee, Consolidated Edison, N.Y.; Dir. Boys Clubs of America; Chair. U.S. Advisory Comm. on Information, Pilgrims, Int. Advisory Council Morgan Guaranty Trust Co. *Leisure interest:* golf. *Address:* c/o Reader's Digest, Pleasantville, N.Y. 10570, U.S.A.

LEWIS, Jerry (Joseph Levitch), American comedian; b. 16 March 1926, s. of Danny and Mona Lewis; m. Patti Palmer 1944; six s.; performed in nightclubs as [illegible] comedian before teaming with Dean Martin in 1946 at the 500 Club, Atlantic City, N.J.; made film début with Martin in My Friend Irma 1949; other films include: My Friend Irma Goes West 1950, That's My Boy 1951, Sailor Beware 1952, Jumping Jack 1952, The Stooge 1953, Scared Stiff 1953, The Caddy 1953, Living it Up 1954, Three Ring Circus 1954, You're Never Too Young 1954, Pardners 1956, Hollywood or Bust 1956, The Delicate Delinquent 1957, The Sad Sack 1958, Rock [illegible] Bye Baby 1958, The Geisha Boy 1958, Visit to [illegible] Small Planet 1960, The Bellboy 1960, Cinderfella 1960, The Errand Boy 1961, It's Only Money? 1964, The Patsy 1964, The Disorderly Orderly 1964, The Family Jewels 1965, Boeing-Boeing 1965, Three On [illegible] Couch 1966, Way Way Out 1966, The Big Mouth 1967, Don't Raise the Bridge, Lower the River 1968, Hook, Line and Sinker 1969, Which Way to the Front? 1970, One More Time 1971, The Day the Clown Died 1971; Television appearances include: Startime, The Ed Sullivan Show and the Jazz Singer. Nat. Chair. of the Muscular Dystrophy Assn. of America; Prof. of Cinema at Univ. of South Calif.; mem., Screen Directors Guild. *Address:* c/o Jerry Lewis Films, Suite 830, 1888 Century Park E, Los Angeles, Calif. 90067, U.S.A.

LEWIS, Hon. John Vernon Radcliffe, B.A.; Rhodesian judge; b. 14 Feb. 1917, London, England; s. of Hon. Vernon Arthur Lewis and Ethel Amy Jameson; m. Erica E. W. Cook; ed. Prince Edward

School, Salisbury, Rhodesia, Rhodes Univ., S. Africa and Balliol Coll., Oxford, England; admitted as advocate, High Court of S. Rhodesia 1939; active service 1940-45; practising lawyer, Salisbury 1945-60; Queen's Counsel 1956; Judge of the High Court 1960; Judge of Appeal, Appellate Div. of the High Court 1970-; Judge Pres. 1977-. *Address:* P.O. Box 8159, Causeway, Salisbury (Office); 5 Maasdorp Avenue, Alexandra Park, Salisbury, N.12, Zimbabwe Rhodesia (Home). *Telephone:* 24778, 26314 (Office); 83551 (Home).

LEWIS, Richard, C.B.E., F.R.A.M., F.R.M.C.M., L.R.A.M.; British opera singer; ed. Royal Manchester Coll. of Music, Royal Acad. of Music; English debut in Rape of Lucretia, Glyndebourne; created Troilus (Troilus and Cressida by Walton); sang in première of Stravinsky's Canticum Sacrum; guest appearances at Covent Garden, Edinburgh Festival, San Francisco Opera, Glyndebourne, Vienna State Opera and Teatro Colón, Buenos Aires; appearances in oratorio and recitals in Europe, America, Australia and New Zealand; [illegible] broadcasts and recordings. *Address:* White Acre, Highgate Road, Forest Row, Sussex, England.

LEWIS, Saunders, M.A.; Welsh writer and dramatist; b. 15 Oct. 1893; ed. Liverpool Univ. *Publications:* plays: The Eve of St. John 1921, Gwaed yr Uchelwyr 1922, Buchedd G[illegible] 1937, Amlyn ac Amig 1940, Bloduewedd 1948, Eisteddfod Bodran 1952, Gan Bwyll 1952, Siwan a Cherddi Eraill 1956, Gymerwch Chi Sigaret? 1956, Brad 1958, Esther 1960, Serch Yw'r Doctor (light opera libretto) 1960, Cymru Fydd 1967, Problemau Prifysgol 1968, Dwy Briodas Ann 1973, Dramau'r Parlwr 1975; novels: Monica 1930, Merch Gwern Hywel 1964; poetry: Mair Fadlen 1937, Byd [illegible] Betws 1941; criticism: A School of Welsh Augustans 1924, Williams Pantycelyn 1927, Ceiriog 1929, Braslun o Hanes Llenyddiaeth Gymraeg Hyd 1535 1932, Daniel Owen 1936, Ysgrifau Dydd Mercher 1945, Meistri'r Canrifoedd 1973; trans. of plays have been staged in English, German and Spanish; trans. of Molière, Beckett. *Address:* 158 Westbourne Road, Penarth, South Glam., Wales.

LEWIS, Thomas Lancelot; Australian politician; b. 23 Jan. 1922, Adelaide; m. Yutta Anton 1971; three s. one d.; ed. St. Peter's Coll., Adelaide; mem. N.W.S. Legislative Assembly 1957-; Ministry for Lands, N.S.W. 1965-75, for Mines 1965-67, for Tourism 1972-75, for Local Govt. 1976; Premier and Treas. N.S.W. 1975-76; established Nat. Parks and Wildlife Service. *Leisure interests:* flying, skiing, swimming, water-skiing, jogging. *Address:* "Redbraes", 17 Valetta Street, Moss Vale, N.S.W. 2577, Australia. *Telephone:* (048) 911617.

LEWIS, Wilfrid Bennett, C.C., C.B.E., M.A., PH.D., F.R.S., F.R.S.C.; British physicist; b. 24 June 1908, Castle Carrock, Cumberland; s. of Arthur Wilfrid and Isoline Maud Lewis (née Steavenson); ed. Haileybury Coll., and Gonville and Caius Coll., Cambridge Univ.; Research Fellow Gonville and Caius Coll. 1934-40; Univ. Demonstrator Cambridge 1935-37, University Lecturer 1937-39; research in Nuclear Physics at Cavendish Lab., Cambridge 1930-39; research and devt. of radar for air operations 1939-46; Senior Scientific Officer, Bawdsey Research Station, Air Ministry (later became Telecommunications Research Establishment, Malvern) 1939, Chief Supt., T.R.E., Malvern 1945-46; Dir. Atomic Energy Research Div. of Nat. Research Council of Canada 1946-52; Vice-Pres. Research and Devt., Atomic Energy of Canada Ltd. 1952-63, Sr. Vice-Pres. Science 1963-73 (retd.); Distinguished Prof. of Science, Queen's Univ., Kingston, Ont. 1973-; Canadian Rep. UN Scientific Advisory Cttee.; mem. Scientific Advisory Cttee. IAEA 1958-78, UN Sec.-Gen.'s Cttee. of Experts on Implications of Atomic Weap[illegible] 1967; Fellow and Pres. American Nuclear Soc. 1961-62; Pres. Acad. of Science, Royal Soc. of Canada 1975-78; Hon. Fellow, Gonville and Caius Coll. 1971, Univ. of Manchester Inst. of Science and Technology; Hon. F.I.E.E. 1974; Foreign Assoc. Nat. Acad. Eng. U.S.A. 1976; Hon. D.Sc. (from 9 Univs.), Hon. LL.D. (from 5 Univs.), Govt. of Canada Outstanding Achievement in Public Service Award 1966, Atoms for Peace Award 1967, U.S. Medal of Freedom (Silver Palms); C.C. (Companion of the Order of Canada) 1967; Royal Medal of Royal Soc., London 1972. *Publications:* Electrical Counting 1942, International Arrangements for Nuclear Fuel Reprocessing (ed. with A. Chayes) 1977. *Leisure interest:* walking. *Address:* Box 189, 13 Beach Avenue, Deep River, Ontario, K0J 1P0, Canada. *Telephone:* 613-584-3561.

LEWIS, Sir (William) Arthur, Kt., B.COM., PH.D., LL.D.; British economist; b. 23 Jan. 1915, St. Lucia; s. of George Ferdinand and Ida Louisa Lewis; m. Gladys Jacobs 1947; two d.; ed. London School of Economics; Lecturer, L.S.E. 1938-48; Prof. of Political Economy, Univ. of Manchester 1948-58; Prin., then Vice-Chancellor, Univ. of the West Indies 1959-63; Prof. of Political Economy, Princeton Univ. 1963-; Pres. Caribbean Devt. Bank 1970-73; mem. American Philosophical Soc., American Acad. of Arts and Sciences; Distinguished Fellow, American Econ. Assn.; Corresp. Fellow, British Acad. *Publications:* Economic Survey 1918-1939 1949, Overhead Costs 1949, The Theory of Economic Growth 1955, Politics in West Africa 1965, Development Planning 1966, Reflections on the Economic Growth of Nigeria 1968, Some Aspects of Economic Development 1969, Tropical Development 1880-1913 1971, Growth and Fluctuations 1880-1913 1978, The Evolution of the International Economic Order 1978. *Leisure interest:* music. *Address:* Woodrow Wilson School, Princeton, N.J. 08540, U.S.A. *Telephone:* 452-4825.

LEWY, Hans, PH.D.; American professor of mathematics; b. 20 Oct. 1904, Breslau, Germany (now Wroclaw, Poland); s. of Max and Margarete Lewy; m. Helen Crosby 1947; one s.; ed. Univ. of Göttingen; Privatdozent, Univ. of Göttingen 1927-33; Lecturer, Brown Univ. 1933-35; Lecturer Mathematics, Univ. of Calif. at Berkeley 1935-37, Asst. Prof. 1937-39, Assoc. Prof. 1939-45, Prof. 1945-72, Emer. Prof. 1972-; mem. Nat. Acad. of Sciences. *Publications:* Works in Calculus of Variations, Partial Differential Equations, Differential Geometry and Hydrodynamics. *Address:* Department of Mathematics, University of California, Berkeley, Calif, 94720, U.S.A.

LEY, Hermann Hubert, DR.SC.PHIL., DR.MED.DENT.; German philosopher and politician; b. 30 Nov. 1911, Leipzig; s. of Hermann and Agnes Ley (née Dietel); m. Christine Simon 1958; ed. Helmholtz School and Leipzig Univ.; Prof. of Theoretical Pedagogics, Leipzig Univ. 1947-48, of Dialectics and Historical Materialism, Dresden Tech. High School 1948-56; Dir.-Gen. State Cttee. for Broadcasting and TV 1956-62; Prof. of Relations of Nat. Science and Philosophy, Humboldt Univ. Berlin; mem. CP 1930, Socialist Unity Party 1946-, Presidium of Deutscher Kulturbund 1962-; Dr. phil. h.c.; National Prize 1960, Karl Marx Prize 1974, Vaterländischer Verdienstorden in Silver 1959. *Publications:* Avicenna 1952, Mittasch 1953, Zur Entwicklungsgeschichte der europäischen Aufklärung 1955, Bemerkungen über Kant 1954, Bemerkungen zum Wesen echter Menschlichkeit (Auseinandersetzung mit Jakob Hommes) 1956, Vorreformatorische Bewegung in Deutschland 1956, Studie zur Geschichte des Materialismus in Mittelalter 1958, Dialektischer Widerspruch zu Lakebrink 1958, Dämon Technik 1960, Einige erkenntnistheoretische Probleme in Naturwissenschaft und Technik 1963, Geschichte der Aufklärung und des Atheismus I 1967, II 1970-71, III 1978, Gesetz und Bedingung in den Technischen und Naturwissenschaften 1964, Struktur und Prozess in Nat. und Tech. 1966, Bildung und Erziehung 1966, Technik, Praxis, Philosophie 1967, Technik und Weltanschauung 1969, Kritische Vernunft und Revolution, Zur Kontroverse zwischen Hans Albert und Jurgen Habermas 1971, Zum Hegelverständnis unserer Zeit 1972, Zum Kantverständnis unserer Zeit 1975, Atheismus/Materialismus/Politik 1978. *Leisure interests:* skiing, car-driving. *Address:* Ernst-Grube-Strasse 41C, 117 Berlin, German Democratic Republic. *Telephone:* 65-7-29-02.

LEYDON, John; Irish business executive; b. 17 Jan. 1895, Arigna, Co. Roscommon; s. of the late James Leydon and Catherine Quinn; m. Nan Layden 1927 (deceased); one d.; ed. St. Mel's Coll., Longford, and St. Patrick's Coll., Maynooth; entered British Civil Service, War Office 1915; transferred to Irish Civil Service 1923; mem. staff Dept. of Finance 1923-32; Sec. Dept. of Industry and Commerce 1932-55, Dept. Supplies 1939-45; Sec. Econ. Cttee. 1928; mem. Electricity Supply Bd. 1929; mem. Comm. of Inquiry on Derating 1930; corresp. mem. L.N. Econ. Cttee.; Chair. Aer Rianta Tta. 1937-49, Aer Lingus Tta. 1937-49, and Irish Shipping Ltd. 1941-49; Chair. Insurance Corpn. of Ireland Ltd. 1946-72, Pres. 1972-; Chair. Wm. & P. Thompson Ltd., Dollar Exports Advisory Cttee. 1950, Capital Investment Advisory Cttee. 1956, Nat. Bank of Ireland Ltd. 1956-73, Aerlínte Éireann (Irish Airlines) 1958-60; First Pres. Inst. of Public Admin. 1957-60; Dir. Cement Ltd. 1955-72, Bank of Ireland 1966-72, Cen. Bank of Ireland 1965-72; Pres. Inst. of Bankers in Ireland 1960; [illegible] Council and Exec. Cttee. of Irish Man. Inst. 1957; mem. Bd. of Govs. Nat. Gallery of Ireland 1961; LL.D. h.c. (Dublin Univ.) 1960; Kt. Commdr. Order of St. Gregory the Great. *Address:* Our Lady's Manor, Bulloch Castle, Dalkey, County Dublin, Ireland. *Telephone:* 804992.

LI CH'ENG-FANG; Chinese government official; b. Hupeh; Army Corps Commdr., 2nd Field Army, People's Liberation Army 1949; Commdr. Kunming Mil. Region, PLA 1964-68; Sec. CCP Yunnan 1966; criticized [illegible] removed from office during the Cultural Revolution1968; Minister of Fifth Ministry of Machine Building 1975; Alt. mem. 11th Cen. Cttee. of CCP 1977; First Political Commissar Wuhan Mil. Region 1978-. *Address:* People's Republic of China.

LI CH'IANG; Chinese politician and telecommunications specialist; mem. 6th Exec. Cttee., Nat. Fed. of Trade Unions 1948-53; Dir. Radio Bureau, Ministry of Post and Telecommunications 1950;

Commercial Attaché, Embassy in Moscow 1952-54; mem. Scientific Planning Comm., State Council 1957; Deputy Dir. Bureau for Econ. Relations with Foreign Countries, State Council 1961; Vice-Chair. Comm. for Econ. Relations with Foreign Countries 1965-67; Vice-Minister of Foreign Trade 1968-73; mem. 9th Cen. Cttee. of CCP 1969; Minister of Foreign Trade 1973-; [illegible] 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977-; Vice-Chair. Credentials Cttee. 5th Nat. People's Congress 1978-. *Address:* People's Republic of China.

LI CHI-TAI; Chinese government official; fmr. Minister, Third Ministry of Machine Building 1975. *Address:* People's Republic of China.

LI CHIH-MIN; Chinese government official; b. 1908, Hunan Province; Political Commissar First Div. Red 3rd Army corps 1931; Political Commissar, 3rd Army Corps, PLA 2nd Field Army 1949; mem. Shensi Prov. People's Govt. 1949-53; mem. N.W. Mil. and Admin. Cttee. 1950-53; Political Commissar Chinese People's Volunteers 1950-57; Dir., Political Dept., Chinese People's Volunteers 1953; Deputy for PLA INPC 1954; appointed Col.-Gen. 1955; alt. mem. CCP 8th Cen. Cttee. 1956; Political Commissar PLA Mil. Acad., Peking 1963; purged [illegible] of Ho Lung's followers 1967; Political Commissar PLA Foochow Mil. Region 1973-; mem. CCP 10th Cen. Cttee. 1973; mem. Pres. 4th NPC 1975; [illegible] Pres. CCP 11th Nat. Congress 1977-; [illegible] CCP 11th Cen. Cttee. 1977-. *Address:* People's Republic of China.

LI CHING; Chinese government official; Commdr., Kansu PLA Mil. District. 1978-. *Address:* People's Republic of China.

LI CHING-CH'UAN; Chinese party official; b. 1906, Huichang, Kiangsi; Political Commissar 1st Front Army 1931; guerrilla leader in Sikang 1934; Political Commissar Suiyan-Mongolian Mil. Region 1937, Shansi-Suiyuan Mil. Region 1947; Dir. W. Szechuan Admin. Office 1950; Gov. of Szechuan 1952-55; Sec. CCP Szechuan 1952-55, First Sec. 1955-56; Political Commissar Szechuan Mil. Dist., People's Liberation Army 1952, Chengtu Mil. Region, PLA 1954-67; mem. 8th Cen. Cttee. of CCP 1956; mem. of Politburo, CCP 1958-67; First Sec. S.W. Bureau, CCP 1961-67; Vice-Chair. Nat. People's Congress 1965; criticized and removed from office during Cultural Revolution 1967; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; Exec. Chair. Presidium, Vice-Chair. Standing Cttee., 5th Nat. People's Congress 1978-. *Address:* People's Republic of China.

LI CHOH-MING, M.A., PH.D., LL.D., D.S.SC.; American (b. Chinese) educator and university professor; b. 17 Feb. 1912, Canton, China; s. of Kanchi and Mewching Tsui Li; m. Sylvia Lu 1938; two s. one d.; ed. Univ. of Nanking, China, and Univ. of California (Berkeley); Prof. of Econs., Nankai, Southwest Associated and Nat. Cen. Univs., China 1937-43; mem. Chinese Special Mission to U.S.A., Canada and U.K. 1943-45; Deputy Dir. Gen. Chinese Nat. Relief and Rehabilitation Admin. (CNRRA) 1945-47; Chief Del. of Republic of China to UN Econ. Comm. for Asia and the Far East 1947-49; Chair. Bd. of Trustees for Rehabilitation Affairs, Nat. Govt. of China 1949-50; Expert on the UN Population Comm. and Statistical Comm. 1952-57; Lecturer, Assoc. Prof. and Prof. of Business Admin. and fmr. Dir. of Centre for Chinese Studies, Univ. of Calif. (Berkeley) 1951-73; Vice-Chancellor Chinese Univ. of Hong Kong 1963-78; Pres. Assn. of Southeast Asian Insts. of Higher Learning 1968-70; Dir. Asian Workshop on Higher Educ. 1969; mem. Bd. of Trustees, Asian Inst. of Tech. 1973-; mem. Editorial Bds. Asian Economic Review, Asian Survey. Modern Asian Studies, China Quarterly; Life Fellow, Royal Econ. Soc., R.S.A., London; mem. American Econ. Assn., Assn. for Asian Studies (U.S.A.) and other socs.; Dr. of Laws h.c. (Univs. of Hong Kong, Michigan, Western Ontario, Marquette, Chinese Univ. of Hong Kong), Hon. Dr. of Social Sciences (Pittsburgh); Elise and Walter A. Haas Int. Award, Univ. of Calif. 1974; Hon. K.B.E. *Publications:* Economic Development of Communist China 1959, Statistical System of Communist China 1962; Ed.: Industrial Development in Communist China 1964, Asian Workshop on Higher Education—Proceedings 1969, The First Six Years 1963-69 1971, The Emerging University 1970-74 1975. *Leisure interests:* Chinese calligraphy, tennis. *Address:* 81 Northampton Avenue, Berkeley, Calif. 94707, U.S.A.

LI HSIEN-NIEN; Chinese politician; b. 1905, Huang-an, Hupeh; joined CCP 1927; Political Commissar 30th Army, 4th Front Red Army 1935; Commdr. 5th Column, New 4th Army 1938; mem. 7th Cen. Cttee. of CCP 1945; Gov. of Hupeh 1949; Commdr. Political Commissar Hupeh Mil. Dist., People's Liberation Army 1949; Vice-Premier, State Council 1954-; Minister of Finance 1954-75; [illegible] Politburo, 8th Cen. Cttee. of CCP 1956; Sec. Secr. of Cen. Cttee., CCP 1958-66; Vice-Chair. State Planning Comm. 1962; mem. Politburo, 9th Cen. Cttee. of CCP 1969, Politburo, 10th Cen. Cttee. 1973, Politburo, 11th Cen. Cttee. 1977; Vice-Chair. CCP; Exec. Chair. Presidium 5th Nat. People's Congress 1978-. *Address:* People's Republic of China.

LI JUI-SHAN; Chinese party official; Sec. CCP Hunan 1958-68; First Sec. CCP Changsha 1959; Chair. Shensi Revolutionary Cttee. 1968; Political Commissar Lanchow Mil. Region, People's Liberation Army 1968; [illegible] 9th Cen. Cttee. of CCP 1969; First Sec. CCP Shensi 1971-78; [illegible] 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

LI KWOH-TING, B.S.; Chinese government official; b. 28 Jan. 1910, Nanking; s. of Mr. and Mrs. Li Pai-Lo; m. Pearl Soong 1938; one s.; ed. Nat. Central Univ., China, and Cambridge Univ., England; Supt. Tze Yu Iron Works, Chungking 1942-45; Pres. Taiwan Shipbuilding Corpn. 1951-53; mem. Industrial Devt. Comm., Econ. Stabilisation Bd. 1953-58; Publisher of The Industry of Free China (monthly) 1954-71; Sec.-Gen. Council for U.S. Aid 1958-63; Convener of Industrial Planning and Co-ordination Group of Ministry of Econ. Affairs 1958-63; Head of Industrial Devt. and Investment Center 1958-63; Vice-Chair. Council for Int. Econ. Cooperation and Devt. 1963-73; Minister of Econ. Affairs 1965-69, of Finance 1969-76, of State 1976-; mem. Nat. Security Council 1967-; Vice-Chair. Nat. Reconstruction Planning Cttee. 1967-72; Ramon Magsaysay Award for Govt. Service 1968, and decorations from Repub. of Korea, Spain, Repub. of Viet-Nam, Jordan, Madagascar, Paraguay, Thailand and Gabon. *Publications:* Symposium on Nuclear Physics, British Industries, Japanese Shipbuilding Industry, The Growth of Private Industry in Free China, Economic Policy and Economic Development, The Experience of Dynamic Economic Growth in Taiwan. *Leisure interest:* golf. *Address:* 3 Lane 2, Tai-an Street, Taipei, Taiwan. *Telephone:* 343575.

LI PAO-CHI; Chinese government official. Political Commissar, Shanghai Mil. District 1978-. *Address:* People's Republic of China.

LI PAO-HUA; Chinese party official; b. 1908, Lo-t'ing, Hopei; s. of Li Ta-chao; Alt. [illegible] 7th Cen. Cttee. of CCP 1945; Vice-Minister of Water Conservancy 1949-63 and of Electric Power 1958-63; mem. 8th Cen. Cttee. of CCP 1956; First Sec. CCP Anhwei 1963-67; Third Sec. E. China Bureau, CCP 1965; First Political Commissar Anhwei Mil. Dist. People's Liberation Army 1966; criticized and removed from office during Cultural Revolution 1967; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; Second Sec. CCP Kweichow 1973-; Pres. People's Bank of China 1978. *Address:* People's Republic of China.

LI SHUI-CH'ING; Chinese politician; Divisional Commdr., People's Liberation Army 1949; Maj.-Gen. PLA 1957; Chief of Staff Tsinan Mil. Region, PLA 1968; [illegible] 9th Cen. Cttee. of CCP 1969; Minister of First Ministry of Mechanical Industry 1972-78; [illegible] 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

LI TA, Gen.; Chinese army officer; b. 1905, Shensi; ed. Moscow Mil. Acad., U.S.S.R.; Staff Officer, Red 6th Army, [illegible] Long March 1934-36; Staff Officer, 129th Div. 1937-45; Chief of Staff, Cen. Plains Field Army 1947, Chinese People's Volunteers in Korea 1953-54; Vice-Minister of Nat. Defence 1954-59; Gen. 1955; Chair. Nat. Defence Sports Assn. 1958-67; criticized and removed from office during Cultural Revolution 1967; Deputy Chief of Cen. Staff, People's Liberation Army 1972-; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

LI TAO-CHIH; Chinese party official; Political Commissar, Liaoning Mil. District, PLA. *Address:* People's Republic of China.

LI TE-SHENG, Gen.; Chinese army officer; Commdr., Red 4th Front Army on Long March 1934-36; Div. Commdr. 2nd Field Army, People's Liberation Army 1949; Gen. PLA 1964; Commdr. Anhwei Mil. Dist., PLA 1967; Chair. Anhwei Revolutionary Cttee. 1968; Alt. mem. Politburo, 9th Cen. Cttee. of CCP 1969; Dir., Gen. Political Dept., People's Liberation Army 1969-74; First Sec. CCP Anhwei 1971-73; mem. Standing Cttee. of Politburo and Vice-Chair. 10th Cen. Cttee. of CCP 1973-75; [illegible] Politburo 11th Cen. Cttee. of CCP 1977; Commdr. Shenyang Mil. Region, PLA 1974-. *Address:* People's Republic of China.

LI TI-TSUN, B.A., M.A., PH.D.; Chinese diplomatist; b. 1901; ed. Tsing Hua Coll. of Peking, Univs. of Wisconsin, Harvard and Chicago; Prof. of Political Science, Cen. Political Inst. 1929-30; Nat. Cen. Univ. 1930-31; Co-founder and Ed. Current Events Monthly 1929-39; Section Chief and Asst. Dir., Ministry of Foreign Affairs 1929-33; Dir. Dept. of Information, Ministry of Foreign Affairs 1933-39; Minister to Cuba 1939-47; concurrently Minister to Venezuela, Colombia and Dominican Repub. 1942-47; Expert [illegible] Nat. Resources Comm., Nanking 1935-37; Foreign Relations Cttee. of

Supreme Nat. Defence Council of Chungking 1938-39; Amb. on special mission to Indonesia 1946-47; Amb. to Turkey 1947-57; Amb. to Brazil 1957-63; Del. UNESCO Conf., New Delhi 1956; Rep. 16th Session UN Gen. Assembly, New York 1961; Adviser Ministry of Foreign Affairs 1963-66; Chair. Dept. of English, Coll. of Chinese Culture 1963-66; Lecturer, Latin American History, Nat. War Coll. 1963-66; Amb. to Chile 1966-71; numerous decorations. *Publication:* Political and Economic Theories of Dr. Sun Yat-sen 1929. *Address:* Ministry of Foreign Affairs, Taipei, Taiwan.

LIANG LING-KUANG; Chinese politician; Former administrator in Fukien; Minister of Light Industry March 1978-. *Address:* People's Republic of China.

LIANG YUEN-LI; (Liang Yun-li), LL.B., DR.JUR.; Chinese lawyer; b. 1904, Sing-Chang; m. Siu-Ying Sheng 1936; one s. one d.; ed. Nanyang Univ. Comparative Law School, Harvard and Geneva Univs.; Ed. China Law Review 1924-26; Lecturer Comparative Law School and Legal Ed. Commercial Press 1926-27; Sec. to Minister of Foreign Affairs 1927 and Minister of Justice 1928; Judge Shanghai Provisional Court 1928; Prof. of Law Comparative Law School 1928-29; Sec. Washington Legation 1929-33; Carnegie Teachers Fellow in Int. Law Harvard 1930-31; Counsellor of Exec. Yuan 1933; Sr. Sec. of Ministry of Foreign Affairs 1934; sr. mem. Treaty Comm. of Ministry of Foreign Affairs and Prof. Cen. Univ. 1936-37; contrib. Ed. China Critic; First Sec. Embassy, London 1939-42, Counsellor 1943-46; mem. Chinese Del. to Dumbarton Oaks and San Francisco Conf. 1944-45; Chair. Cttee. of Experts, Security Council 1946; Visiting Prof., Univ. of Mich., Summer Session 1947; Prof. Hague Acad. of Int. Law 1948; Lecturer, New York Univ. Law School 1947-48 and 1949-50, Adjunct Assoc. Prof. 1951-60, Adjunct Prof. 1960-; Dir. Legal Dept. UN 1946-64; elected Assoc. Inst. of Int. Law 1950; Adviser Chinese Del. to the UN Gen. Assembly 1964, 1965, 1968; Prof. Postgraduate Inst. of Int. Law and Diplomacy, Nat. Cheng-chi Univ., Taipei 1968; elected titular mem. Inst. of Int. Law 1965; Adviser to Ministry of Foreign Affairs and Dir. Treaty Dept. 1969-72; Ed.-in-Chief Asian Cultural Quarterly 1973-, Soochow Law Review 1976-; mem. Perm. Court of Arbitration, The Hague 1970-; Prof. and Dean, Graduate School of Law, Soochow Univ. 1971-. *Publications:* The First Year of the Far Eastern Crisis, International Government, Sociology of Law, China 1946, Le développement et la codification du droit international 1948. *Leisure interest:* music. *Address:* Graduate School of Law, Lane 129, Yen Ping South Road, Taipei, 100 Taiwan.

LIAO CH'ENG-CHIH; Chinese party official; b. 1908, Tokyo, Japan; ed. Lingnan Univ., Canton, Waseda Univ., Japan and Berlin and Hamburg Univs., Germany; joined CCP 1925; studied Political Econ., Germany 1928; Chair. Seaman's Union 1933; participated in Long March 1934-36; Dir. New China News Agency 1938; prisoner of Kuomintang 1942-46; Alt. mem. 7th Cen. Cttee. of CCP 1945; Chair. Nat. Fed. of Democratic Youth 1949; Dir. Inst. of Foreign Affairs 1949-54; mem. 8th Cen. Cttee. of CCP 1956; Chair. Comm. for Overseas Chinese Affairs 1959-67, Hon Chair. 1979-; Pres. Overseas Chinese Univ., Fukien 1961-67, China-Japan Friendship Assn. 1963-; criticized and removed from office during Cultural Revolution 1967; rehabilitated and returned to previous positions 1972; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; Exec. Chair Presidium, Vice-Chair. Standing Cttee., 5th Nat. People's Congress 1978-. *Address:* People's Republic of China.

LIAO CHIH-KAO; Chinese party official; b. *circa* 1908, Chienning, Szechuan; ed. Tsinghua Univ. Peking; Dir. Political Dept., N. Shensi 1947; Political Commissar Sikang Mil. Dist., People's Liberation Army 1950-55; Gov. of Sikang Provisional Govt. 1950-55; Vice-Gov. of Szechuan 1955-58; Sec. CCP Szechuan 1956-65, First Sec. 1965-68; Alt. mem. 8th Cen. Cttee. of CCP 1956; Sec. S.W. Bureau, CCP 1964-68; criticized and removed from office during Cultural Revolution 1968; Alt. mem. 19th Cen. Cttee. of CCP 1973; First Sec. CCP Fukien 1975-, Chair. Fukien Revolutionary Cttee.; mem. 11th Cttee. of CCP 1977. *Address:* People's Republic of China.

LIAO HAN-SHENG; Chinese government official; b. 1910, Hunan; Political Commissar 6th Div., 2nd Front Army 1934; Political Commissar, Div. 2nd Front, Red Army 1936; Political Comm. 716 Regiment, 120th Division, 8th Route Army; Political Commissar 1st Column, N.W. Liberation Army 1947; Political Commissar 2nd Army Group, CCP Red Army 1949; Chair. Tsinghai Mil. & Admin. Cttee. 1949; Political Commissar, Tsinghai Mil. Area 1949; Vice-Chair., Tsinghai People's Provincial Govt. 1949-56; Deputy Commdr. Tsinghai Mil. Area 1950; mem. N.W. Mil. and Admin. Cttee. 1950; mem. N.W. Admin. Cttee. 1953; Deputy Political Commissar N.W. Mil. Area 1954; Deputy for PLA to 1st NPC 1954; mem. Nat. Defence Council 1954; rank of Lieut.-Gen. 1955; Alt. mem. CCP 8th Cen. Cttee. 1956; Pres. Mil. Acad. of PLA 1957; responsible person PLA Units, Nanking 1957; responsible person PLA Units, Peking 1962; Deputy for Peking PLA Units to 3rd NPC 1964; mem. Presidium 3rd NPC 1964; Sec. CCP N. China Bureau 1965; detained in Peking Garrison HQ, 1967; Branded a 3-Anti Element 1967; resumed activities 1972; Vice-Pres. Acad. of Mil. Science 1974; First Political Commissar PLA Nanking Mil. Region 1978-. *Address:* People's Republic of China.

LIBBY, Willard Frank, B.S., PH.D.; American scientist; b. 17 Dec. 1908, Grand Valley, Colo.; s. of Ora Edward and Eva May (Rivers) Libby; m. 1st Leonor Hickey 1940 (dissolved 1966), 2nd Leona Woods Marshall 1966; two d.; ed. Univ. of California, Berkeley; Instructor of Chem., Univ. of Calif. 1933, Asst. Prof. 1938, Assoc. Prof. 1945, Prof. 1959, Dir. Inst. of Geophysics and Planetary Physics 1962-; Guggenheim Fellow, Princeton Univ. 1941; mem. Columbia Univ., War Research Div. 1941-45; Prof. Dept. of Chem., Inst. for Nuclear Studies (now Enrico Fermi Inst. for Nuclear Studies), Univ. of Chicago 1945-54; mem. Atomic Energy Comm. 1954-59; Research Assoc., Geophysical Lab., Carnegie Inst. Wash. 1954-59; Prof. of Chem., Univ. of Calif. at Los Angeles 1959-; Univ. of Colo., Boulder, Special Visiting Prof. of Chem., Physics, Astrophysics and Aero-Engineering 1967-70; Special Visiting Prof. of Chem., Univ. of South Fla., Tampa, 1972; Guggenheim Fellow 1941, 1951 and 1959; Atomic Energy Comm., mem. Cttee. of Sr. Reviewers 1945-52, Gen. Advisory Cttee. 1950-54 and 1960-62, mem. U.S. del. and Vice-Chair. Int. Conf. on the Peaceful Uses of Atomic Energy, Geneva 1955 and 1958, Plowshare Advisory Cttee. 1959-72; mem. Cttee. of Selection of Guggenheim Memorial Foundation 1959-, Air Resources Bd., Calif. 1967-72, Acad. Advisory Bd., The Rand Corpn. 1968-77, Visiting Cttee. Jet Propulsion Lab. 1968-72, Task Force on Air Pollution 1969-70, U.S. del. to U.S.-Japan Cttee. on Scientific Co-operation 1970-73, Gov.'s Earthquake Council, Calif. 1972-; mem. Editorial Bd., Industrial Research 1967-73, Space Life Science 1970-, Science of the Total Environment 1973-, Environmental Geology 1973-; Consultant and Adviser to numerous orgs.; Pres. and Dir., The Isotope Foundation 1960-; Dir. Douglas Aircraft Co. Inc. 1963-67; Dir. and Chair. of Bd. Scientific Research Instruments Corpn. 1967-; Dir. Hedge Fund of America 1968-, Summit Capital Fund 1968-, Nuclear Systems Inc. 1969-, Research-Cottrell Inc. 1971-; mem. many American and foreign acads. and socs.; several hon. degrees; Research Corpn. Award for radiocarbon dating technique 1951; Chandler Medal (Columbia Univ.) 1954; A.C.S. Award for nuclear applications in chem. 1956; Nobel Prize for Chem. 1960; numerous medals, incl. Albert Einstein Medal 1959, Gold Medal 1970. *Publications:* Radiocarbon Dating 1952, 1955, 1965, etc. and numerous articles. *Leisure interest:* golf. *Address:* Chemistry Department, UCLA, 405 Hilgard Avenue, Los Angeles, Calif. 90024, U.S.A. *Telephone:* 213-825-1968.

LIBERAKI, Margarita; Greek novelist and dramatist; b. 1919, Athens; divorced; one d.; ed. Athens Univ.; lives in Paris and Greece, writes in Greek and French; plays performed at Festival d'Avignon, Festival of Athens. *Publications:* The Trees 1947, The Straw Hats 1950, Trois étés 1950, The Other Alexander 1952, The Mystery 1976; plays: Kandaules' Wife 1955, The Danaids 1956, L'autre Alexandre 1957, Le saint prince 1959, La lune a faim 1961, Sparagmos 1965, Le bain de [redacted] 1967, Erotica 1970; film scripts: Magic City 1953, Phaedra 1961. *Leisure interest:* painting. *Address:* 7 rue de L'Eperon, 75006 Paris, France; 2 Strat. Sindesmou, Athens, Greece. *Telephone:* MED 05-92 (Paris).

LIBERMAN, Yevsei Grigorievich; Soviet economist; b. 2 Oct. 1897, Slavuta, Ukraine; s. of late Grigory and Serel Liberman; m. Regina Gorowitz 1927; one d.; ed. Univ. of Kiev; Lecturer, Kharkov Eng. and Econs. Inst., later Kharkov Univ., Prof. 1957-. *Publications include:* Structure of the Balance of an Industrial Undertaking 1948, Economic Accounting in a Factory 1950, Ways of Raising the Profitability of Socialist Enterprises 1956, Main Problems of Composite Mechanization and Automation of Production 1961, Plan, Profit, Bonuses 1962, The Economic Methods to Raise the Efficiency of Socialistic Enterprises 1967 (German and English trans. 1970), The Differences between Index-numbers of Efficiency of Public Production as a Whole and of Separate Enterprises 1977. *Leisure interests:* reading scientific news, watching sport. *Address:* Kharkov State University, 4 Ploschchad Dzerzhinskogo, Kharkov; 310024 Gudanova Street 9/11 Ap. 9, Kharkov, U.S.S.R. (Home).

LICAROS, Gregario S., LL.B., B.SC.; Philippine lawyer and banker; b. 12 March 1909; ed. Far Eastern Univ.; Chair. Bd. of Trustees, Govt. Service Insurance System 1954-61; Chair. Bd. of Govs., Devt. Bank of the Philippines and mem. Cen. Bank Monetary Bd. 1958-61; Chair. Bd. of Dirs., CCP Securities Corpn. 1963-65; Gov. Cen. Bank of the Philippines Jan. 1970-, concurrently Gov. Int. Monetary Fund for the Philippines; mem. Council of Cen.

Bank Govs. of S.E. Asia, N.Z., Australia (SEANZA) 1970-, Nat. Econ. Council, Financial and Fiscal Policy Council, Foreign Trade Council, Surigao Mineral Reservation Bd. 1970; mem. Bd. of Dirs., Philippine Deposit Insurance Corpn. 1970-; Chair. Gold Mining Industry Assistance Bd. 1970-; Outstanding CPA, Philippine Assn. of Bd. of Examiners 1958, and many other awards. *Address:* Central Bank of the Philippines, A. Mabini Street, Manila; 802 Harvard Street, Mandaluyong, Rizal, Philippines (Home).

LICHNEROWICZ, André, D. ÈS SC.; French mathematician; b. 21 Jan. 1915, Bourbon; s. of Jean Lichnerowicz and Antoinette Gressin; m. Suzanne Magdelain 1942; three s.; ed. Lycée Louis-le-Grand, Paris, Ecole Normale Supérieure, Paris, and Univ. de Paris; research assignments, Centre National de Recherche Scientifique 1938-41; mem. staff, Univ. of Strasbourg 1941-46, Full Prof. 1946-49; Full Prof. Univ. de Paris 1949-52, Prof. of Mathematical Physics, Collège de France 1952-; mem. Acad. des Sciences, Accad. Naz. dei Lincei, Rome, Acad. Real de Ciencias, Madrid, Acad. Royale de Belgique; Dr. h.c. (Univ. of Waterloo) 1977; Commdr. Légion d'honneur; Commandeur de l'Ordre du Mérite et des Palmes académiques; Médaille Copernic de l'Acad. Polonaise des Sciences 1973; Prix int. Fubini 1955. *Publications:* Algèbre et analyse linéaire 1946, Eléments de calcul tensoriel 1949, Théories relativistes de la gravitation 1954, Théorie globale des connexions 1955, Géométrie des groupes de transformation 1958, Relativistic hydrodynamics and magnetohydrodynamics 1967. *Leisure interests:* philosophy, gardening, tennis. *Address:* 6 avenue Paul Appell, 75014 Paris, France. *Telephone:* 540-5166.

LICHT, Frank; American lawyer and politician; b. 3 March 1916, Providence, R.I.; s. of Jacob and the late Rose (Kassed) Licht; m. Dorothy Krauss 1946; three d.; ed. Brown Univ. and Harvard Law School; admitted to R.I. Bar 1942; partner Letts and Quinn (law firm) 1943-56; Senator from Rhode Island 1949-56; Assoc. Justice, R.I. Superior Court 1956-68; Gov. of Rhode Island 1969-73; Partner Letts, Quinn and Licht 1973-; Democrat. *Address:* 640 Elmgrove Avenue, Providence, R.I. 02906. U.S.A.

LICHTENBERG, Paul; German banker; b. 10 Dec. 1911, Bonn; Chair. Commerzbank AG, Frankfurt (Main)/Düsseldorf, Buderus AG, Wetzlar, Stern-Brauerei Carl Funke AG, Essen, Kaufhof AG, Köln; Deputy Chair. Allianz Lebensversicherungs-AG, Stuttgart; mem. Bd. of Dirs. BBC Brown, Boveri & Cie AG, Mannheim, GHH Gutehoffnungshütte Aktienverein, Oberhausen, Hoechst AG, Frankfurt (Main)-Hoechst, Hochtief AG vorm. Gebr. Helfmann, Essen, MAN Maschinenfabrik Augsburg-Nürnberg AG, Augsburg; Admin. Bd. Deutsches Atomforum e.V., Bonn, Interfonds Internationale Investment-Trust-Gesellschaft, Basel; Adviser to Allianz Versicherungs-AG and Allianz Lebensversicherungs-AG, München; mem. Advisory Cttee. Atlantic Hotel GmbH, Hamburg, Gelsenwasser AG, Gelsenkirchen, Hermes Kreditversicherungs-AG, Hamburg, Kautex-Werke Reinold Hagen, Bonn-Holzlar, Robert Krups GmbH, Solingen, Rheinisch-Westfälisches Elektrizitätswerk AG, Essen. *Address:* Commerzbank AG, Neue Mainzer Strasse 32-36, 6000 Frankfurt am Main, Federal Republic of Germany. *Telephone:* 13621 (Frankfurt).

LICHTENSTEIN, Roy, M.F.A.; American painter and sculptor; b. 27 Oct. 1923, New York, N.Y.; s. of Milton and Beatrice (Werner) Lichtenstein; m. 1st Isabel Wilson 1949 (divorced), two s.; m. 2nd Dorothy Herzka 1968; ed. Art Students League, New York, Ohio State Univ.; cartographical draughtsman, U.S. Army 1943-46; Instructor, Fine Arts Dept., Ohio State Univ. 1946-51; product designer for various cos., Cleveland 1951-57; Asst. Prof., Fine Arts Dept., N.Y. State Univ. 1957-60, Rutgers Univ., New Brunswick, N.J. 1960-63; works in Pop Art and other themes derived from comic strip techniques; one-man shows include Carlebach Gallery, New York 1951, Leo Castelli Gallery 1962, 1963, 1965, 1967, 1971-75, 1977, Galerie Illeana Sonnabend, Paris 1963, 1965, 1970, 1975, Venice Biennale 1966, Pasadena Art Museum, Calif. 1967, Walder Art Center, Minneapolis 1967, Stedelijk Museum, Amsterdam 1967, Tate Gallery, London 1967, Kunsthalle, Berne 1968, Guggenheim Museum, New York 1969, Nelson Gallery, Kansas City, Mo. 1969, Museum of Contemporary Art, Chicago 1970, Galerie Beyeler, Basel 1973, Centre Nat. d'Art Contemporain, Centre Beaubourg, Paris 1975, Seattle Art Museum 1976; group exhbns. include Six Painters and the Object, Guggenheim Museum 1963, Venice Biennale 1966, U.S. Pavilion Expo 1967, Montreal, São Paulo Biennale 1968, and numerous others in Europe and U.S.A. *Address:* P.O. Box 1369, Southampton, New York, N.Y. 11968, U.S.A.

LICKLIDER, J(oseph) C(arl) R(obnett), PH.D.; American psychologist; b. 11 March 1915, St. Louis, Mo.; s. of Joseph Parron Licklider and Margaret Robnett; m. Louise Carpenter Thomas 1945; one s. one d.; ed. Washington Univ., St. Louis and Univ. of Rochester; Research Assoc. and Fellow, Psycho-Acoustic Lab., Harvard; Lecturer in Psychology, Harvard 1946-50; Assoc. Prof. M.I.T. 1950-57, Acoustics Lab. 1951-55, Group Leader Lincoln Lab. 1952-55, Visiting Prof., M.I.T. 1965-66, Prof. of Electrical Eng. 1967-; with Bolt Beranek and Newman 1957-62, Vice-Pres. 1961-62, Head, Psychoacoustics Dept., Engineering Psychology Dept. and Information Systems Research Dept., Dir. Information Processing Research and Behavioural Science, Advanced Research Projects Agency, Dept. of Defense 1962-64; Consultant to I.B.M., Dir. of Research 1964-67; Assoc. Dir. Project MAC, Dir. 1968-70; with Dept. of Defense 1974-75; fmr. Pres. Acoustical Soc. of America, Soc. of Eng. Psychologists; Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences, Assn. for Computing Machinery. *Publications:* Libraries of the Future, and numerous papers on psychoacoustics, communications theory, man-computer interaction, information storage and retrieval. *Address:* 40 Pleasant View Road, Arlington, Mass. 02174, U.S.A. *Telephone:* 617-646-0680.

LIDDIARD, Richard England, C.B.E., M.A.; British commodity broker; b. 21 Sept. 1917, Nainital, India; s. of late Edgar S. and Mabel A. Liddiard; m. Constance L. Rook 1943; one s. three d.; ed. Oundle School and Worcester Coll., Oxford; joined C. Czarnikow Ltd. 1946, Chair. 1958-74, Chair. Czarnikow Group Ltd. 1974-; Chair. Sugar Assn. of London 1960-78; Vice-Chair. London Commodity Exchange 1971, Chair. 1972-75; Chair. British Fed. of Commodity Assns. 1963-71, Vice-Chair. 1971-77. *Leisure interests:* reading, golf. *Address:* Czarnikow Group Ltd., 66 Mark Lane, London, E.C.3; Oxford Lodge, 52 Parkside, Wimbledon, London, S.W.19, England (Home). *Telephone:* 01-480 6677 (Office); 01-946 3434 (Home).

LIDMAN, Sara; Swedish writer; b. 30 Dec. 1923; ed. Uppsala Univ.; first four books deal with life in sparsely populated N. Sweden; in S. Africa 1960, in Kenya 1962-64, in N. Viet-Nam 1965. *Publications include:* Tjärdalen 1953, Hjortronlandet 1955, Aina 1956, Regnspiran 1958, Bära mistel 1960, Jag o min son 1961, Med fem diamanter 1964, Samtal i Hanoi 1966, Gruva 1968, Vänner o uvënner 1969, Marta, Marta 1970, Fåglarna i Nam Dinh 1973, Libretto till två baletter, Inga träd skall väcka dig 1974, Balansen 1975, Din tjänare hör 1977.

LIDORENKO, Nikolay Stepanovich; Soviet electrochemist; b. 15 April 1916, Kursk; ed. Novocherkassk Polytechnical Inst.; Engineer 1940-50; Dir. U.S.S.R. Inst. of Sources of Electric Current 1950-; Prof. 1963-; Head Dept. of Moscow Physics and Tech. Inst. 1965-; mem. CPSU 1944; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-; Merited Scientist of R.S.F.S.R. 1966; Hero of Socialist Labour 1971, Order of Lenin (three times); Lenin Prize 1960, and other decorations. *Publications:* works on transformation of energy. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

LIEBERICH, Heinz, D.IUR.; German archivist and legal historian; b. 29 Jan. 1905, Kaiserslautern; s. of Heinrich and Mathilde Lieberich (née Clemens); ed. Humanistisches Gymnasium, Munich, Univ. of Munich, and School of Archives, Munich; Bavarian State Archive Service 1931-, Speyer 1934-38, Cen. Archives, Munich 1938-, Gen. Dir. Bavarian State Archives 1959-70; Hon. Prof. of Legal History, Univ. of Munich 1955-; Chair. of Comm. for Bavarian History, Bavarian Acad. of Sciences 1960-73; mem. Exec. Cttee. Int. Council of Archives 1961-68. *Publications:* Rechtsgeschichte Bayerns u. der bayerischen Schwaben 1952, Zur Feudalisierung der Gerichtsbarkeit in Bayern 1954, Kaiser Ludwig der Bayer als Gesetzgeber 1959, Landherren und Landleute 1964, Die Anfänge der Polizeigesetzgebung des Herzogtums Baiern 1969, Deutsches Privatrecht (with Mitteis), Deutsche Rechtsgeschichte. *Address:* D8 Munich 40, Adalbertstr. 44/IV, Federal Republic of Germany. *Telephone:* 335512.

LIEBERMANN, Rolf; Swiss musician and administrator; b. 14 Sept. 1910; ed. Zürich Conservatoire, and Univ. of Zürich; mem. Musical Dept. Swiss Radio Corpn. 1945-50; Head of Orchestra Dept. Swiss Radio Station Beromünster 1950-57; Musical Dir. N. German Broadcasting System, Hamburg 1957-59; Gen. Man. State Opera, Hamburg 1959-72; Gen. Man. Théâtre Nat. de l'Opéra, Paris Jan. 1973-; Dr. h.c. (Spokane and Berne); Commdr. Légion d'honneur 1974. *Works,* operatic: Leonore 1952, Penelope 1954, School for Wives 1955; orchestral: Polyphonic Studies 1943, Une des Fins du Monde 1943, Volkslieder Suite, Furioso 1947, Symphony No. 1 1949, The Song of Life and Death 1950, Concerto for Jazzband and Symphony Orchestra 1954, Concerto pour machines à écrire et machines à calculer 1964, Symphonie des Echanges (for business machines) 1964. *Address:* Théâtre National de l'Opéra, Place de l'Opéra, 75009 Paris, France.

LIECHTENSTEIN, Prince of (*see* Franz Josef).

LIED, Finn; Norwegian scientist, administrator and politician; b. 12 April 1916, Fana; ed. Norwegian Technological Univ., Trondheim and Cambridge Univ.; Norwegian Armed Forces 1942-45; later Research Fellow and Head of Norwegian Defence Research Establishment, Dir. 1957; Minister of Industry 1971-72; mem. Norwegian Acad. of Science and Letters at Oslo, Norwegian Acad. of Technical Sciences, Supreme Cttee. for Norwegian Research; Chair. Exec. Cttee. Royal Norwegian Council for Industrial Research, Bd. of Dirs. Norwegian Telephone and Telegraph Admin.; Chair. of Bd. Den Norske Stats Oljeselskap A/S. *Publications:* textbooks on radio technique and various papers on ionosphere physics and applied research in general. *Address:* Norwegian Defence Research Establishment, P.O. Box 25, N-2007 Kjeller, Norway.

LIEFTINCK, Pieter, DR. JUR.; Netherlands economist and politician; b. 30 Sept. 1902, Muiden; ed. Utrecht Univ.; Fellow, Rockefeller Foundation; economist, Dept. of Econ. Affairs and Gen. Sec. Econ. Council 1932-34; Lecturer Neths. School of Econs. at Rotterdam 1934; mem. Supreme Council for Labour matters; Minister of Finance in Schermerhorn Govt. 1945-46; in Beel Govt. 1946-48, and in Drees Govt. 1948-51, 1951-52; Special Rep. and Chief of Missions, IBRD 1952-55; Exec. Dir. IBRD 1955-71, IMF 1955-76; Special Adviser on Int. Affairs, Centrale Rabobank 1978-; Corresp. mem. Royal Netherlands Acad. of Sciences; Knight Commdr., Order of Netherlands Lion, Great Cross, Order of Orange-Nassau. *Address:* International Monetary Fund, 19th and H Streets, N.W., Washington, D.C. 20431; 3751 Jocelyn Street, N.W., Washington, D.C. 20015, U.S.A.

LIEPA, Maris-Rudolf Eduardovich; Soviet ballet dancer; b. 27 July 1936, Riga; s. of Eduard and Lilia Liepa; m. Margareta; one s. one d.; ed. Bolshoi Theatre Ballet School, Moscow; soloist with Latvian Theatre of Opera and Ballet, Riga 1955-56; soloist with Moscow Stanislavsky and Nemirovich-Danchenko Theatre Ballet Co. 1956-60; soloist with Bolshoi Theatre Ballet 1959-; Teacher Bolshoi Theatre Ballet School 1963-; People's Artist of U.S.S.R. 1976; Lenin Prize Winner 1970, Nijinsky Prize 1971, Marius Petipa Prize 1977. *Main roles include:* Jean de Brien (Raimonda), Konrad (Corsair), Siegfried (Swan Lake), Vatslav (Fountain of Bakhchisarai), Phoebus (Esmeralda), the Poet (Straussiana), Basilio (Don Quixote), Albert (Giselle), Armen (Gayane), Spartacus, Crassus (Spartacus), Prince Desire (Sleeping Beauty), Romeo (Romeo and Juliet), Farkhad (Legend of Love), Spectre de la Rose (Spectre de la rose), Vronsky (Anna Karenina), Karenin (Anna Karenina), José (Carmen), Prince Lemon (Chipolino), leading role in These Wonderful Sounds 1978; *film roles:* Prince Vseslav (Lion's Tomb), Jack Wheeler (The Fourth Man); *TV roles:* Hamlet, Henrie, Mouse King and Nutcracker Prince (Nutcracker) 1977, roles in Benefice 1978, Galateja 1978. *Leisure interest:* swimming. *Address:* State Academic Bolshoi Theatre of the U.S.S.R., 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

LIEPMANN, Hans Wolfgang, PH.D.; American professor of aeronautics and applied physics; b. 3 July 1914, Berlin, Germany; s. of Wilhelm and Elsa (Leser) Liepmann; m. 1st Kate Kaschinsky 1939 (dissolved), 2nd Dietlind Wegener Goldschmidt 1954; two s.; ed. Univ. of Zurich; Research Fellow, Univ. of Zurich 1938-39, Calif. Inst. of Technology 1939-45; Asst. Prof. Calif. Inst. of Technology 1945-46, Assoc. Prof. 1946-49, Prof. of Aeronautics and Applied Physics 1949-76, Charles Lee Powell Prof. of Fluid Mechanics and Thermodynamics 1976-; Dir. Graduate Aeronautical Labs. 1972-; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng., Int. Acad. of Astronautics, A.A.A.S.; First Dryden Lecturer, American Inst. of Aeronautics and Astronautics 1968, Hon. Fellow 1974; Ludwig Prandtl Ring, German Soc. for Aeronautics and Astronautics 1968; Warner Medal, American Soc. of Mechanical Engineers 1969. *Publications:* Aerodynamics of a Compressible Fluid (co-author) 1947, Elements of Gasdynamics (co-author) 1957, Free Turbulent Flows 1961, many articles in professional journals. *Leisure interest:* tennis. *Address:* Mail Stop 105-50, California Institute of Technology, Pasadena, Calif. 91125; 555 Haverstock Road, La Canada-Flintridge, Calif. 91011, U.S.A. (Home). *Telephone:* 213-795-6811, Ext. 1535 (Office); (213) 790-2264 (Home).

LIESNER, Hans Hubertus, M.A.; British economist and civil servant; b. 30 March 1929, Naumburg, Germany; s. of Curt Liesner and Edith (née Neumann); m. Thelma Seward 1968; one s. one d.; ed. Univ. of Bristol, Nuffield Coll., Oxford; Asst. Lecturer, later Lecturer in Econs., London School of Econs. and Political Science 1955-59; Lecturer in Econs., Univ. of Cambridge, Fellow, Dir. of Studies in Econs., also Asst. Bursar of Emmanuel Coll. 1959-70; Under-Sec. (Econ.), H.M. Treasury 1970-76; Chief Econ. Adviser, Depts. of Trade, Industry and Prices and Consumer Protection 1976-. *Publications:* The Import Dependence of Britain and Western Germany 1957, Case Studies in European Economic Union: the Mechanics of Integration (with J. E. Meade and S. J. Wells) 1962, Atlantic Harmonisation: Making Free Trade Work 1968, Britain and the Common Market: the effect of entry on the pattern of manufacturing production (with S. S. Han) 1971. *Leisure interests:* skiing, ciné photography, gardening, walking. *Address:* 32 The Grove, Brookmans Park, Herts., AL9 7RN, England. *Telephone:* Potters Bar 53269.

LIFAR, Serge; Russian ballet dancer, choreographer and writer; b. 2 April 1905; left Russia as refugee and joined Diaghilev company, Paris 1923; studied under Cecchetti; created Apollon (Stravinsky), Fils prodigue (Prokofiev), etc.; debut as choreographer Stravinsky's Renard 1929; produced Prométhée, Opera House, Paris 1929; first London appearance in Cimarosiana and Les fâcheux, Coliseum 1924; Cochran's 1930 Revue, London Pavilion 1930; returned to Paris and produced and danced in Bacchus and Ariadne, Le spectre de la rose, and Giselle 1931, Icare 1935, David triomphant 1936, Le chevalier et la demoiselle 1941, Jean de Zarissa 1942, Suite en blanc 1943, Chota Roustavelli, Dramma per Musica 1946, Lucifer 1948, Septour, Le chevalier errant, Phèdre 1950, Blanche neige 1951, Fourberies de Scapin 1952, Noces fantastiques 1955, Roméo et Juliette (Prokofiev) 1955, appeared in film Le testament d'Orphée (Cocteau) 1960; founder-Dir. Inst. choréographique, Opéra National de Paris 1947-58, 1962-63; premier maître de ballet and premier danseur of Théâtre Nat. de l'Opéra, Paris 1947-58, 1962-63; Organizer of ballet, Coronation of Shah of Iran 1967; Mâitre de ballet de l'Opéra, Paris 1968-; Foreign mem. Acad. des Beaux-arts 1970. *Publications:* Traditional to Modern 1938, Diaghilev, a Biography 1940, Traité de la danse académique 1950, Histoire du ballet 1951, Vestris 1951, Réflexions sur la danse 1952, Traité de choréographie 1952, The Three Graces 1959, Ma vie (memoirs) 1969. *Address:* 89 quai d'Orsay, 75007 Paris, France.

LIFSHITS, Ilya Mikhailovich (brother of Yevgeniy Lifshits, *q.v.*); Soviet physicist; b. 13 Jan. 1917, Kharkov; ed. Kharkov State Univ.; Inst. of Physics and Tech., Ukranian Acad. of Sciences, Kharkov 1937-68; Prof. Kharkov Univ. 1944-64, Moscow State Univ. 1964-; Inst. of Physical Problems of U.S.S.R. Acad. of Sciences 1968-; Corresp. mem. U.S.S.R. Acad. of Sciences 1960-70, Academician 1970-; Lenin Prize 1967, Order of Red Banner and other decorations. *Publications:* works on solid state theory and electronic theory of metals. *Address:* c/o U.S.S.R. Academy of Sciences, Leninsky Prospekt 14, Moscow V-11, U.S.S.R.

LIFSHITS, Yevgeniy Mikhailovich (brother of Ilya Lifshits, *q.v.*); Soviet physicist; b. 21 Feb. 1915, Kharkov; ed. Kharkov Inst. of Mechanics and Machine-building; Inst. of Physics and Tech., Ukrainian Acad. of Sciences, Kharkov 1933-38; Sr. Research Scientist, Inst. of Physical Problems, U.S.S.R. Acad. of Sciences 1939-; Deputy Ed. Journal of Experimental and Theoretical Physics 1946-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-; State Prize 1954, Lenin Prize 1962; several decorations. *Publications:* Mechanics, Theory of Fields, Quantum Mechanics, Statistical Physics, Theory of Elasticity, Electrodynamics of Continuous Media (with L. D. Landau), etc. *Address:* Institute of Physical Problems, U.S.S.R. Academy of Sciences, 2 Vorobyevskoye Shosse, Moscow, U.S.S.R.

LIFSON, Shneior, PH.D.; Israeli scientist; b. 18 March 1914, Tel Aviv; m. Hanna Stern; three c.; ed. Hebrew Univ.; mem. kibbutz 1932-43; served in Science Unit, Israel Defence Forces 1948-49; Weizmann Inst. of Science, attached to Polymer Dept. 1949, Chair. Scientific Council 1961-63, Head, Chemical Physics Dept. 1963-, Science Dir. 1963-67, Dean Faculty of Chem. 1975-; Rector, Everyman's Univ., Israel 1974-75; mem. Council for Higher Educ., Israel Science Teaching Centre, Comm. of Molecular Biophysics of Int. Union of Pure and Applied Biophysics, European Molecular Biology Org., Advisory Bd. Biopolymers, Current Contents and Editorial Bd. Journal of Statistical Physics (U.S.A.); Weizmann Prize 1958, Israel Prize 1969. *Publications:* numerous scientific papers. *Address:* c/o 15 Neve Weizmann, Rehovot, Israel. *Telephone:* 951721/589.

LIGACHOV, Egor Kuzmich; Soviet party official and politician; b. 1920; ed. Moscow Inst. of Aviation and CPSU Higher Party School; Engineer 1943-49; joined CPSU 1944; Party and Local Govt. Official Novosibirsk 1949-55; Vice-Chair. Novosibirsk Regional Soviet of Working People's Deputies 1955-58; Sec. Novosibirsk Regional Cttee. CPSU 1959-61, with Cen. Cttee. CPSU 1961-65; First Sec. Tomsk Regional Cttee. CPSU 1965-; Cand. mem. Cen. Cttee. CPSU 1966-76, mem. 1976-; Deputy to Supreme Soviet 1966-; fmr. Chair. Comm. for Youth Affairs, Soviet of the Union. *Address:* Tomsk Regional Committee, Communist Party of the Soviet Union, Tomsk, U.S.S.R.

LIGETI, Lajos, D.PHIL., D.LIT.; Hungarian orientalist; b. 28 Oct. 1902, Balassagyarmat; s. of János Ligeti and Ilona Cseh; m. Ida Tigyi 1945; ed. Budapest Univ. and Coll. Eötvös, Budapest; Lecturer, Budapest Univ. 1931, Prof. 1938; Lecturer, Ecole des Langues Orientales, Paris 1934-35; visits to Mongolia 1928-31, Afghanistan 1936-37, Japan 1940; Prof., Chair. of Cen. Asia, Eötvös Lóránd Univ. Budapest; Vice-Pres. Hungarian-Soviet Friendship Soc.; mem. Hungarian Acad. 1936-, Vice-Pres. 1949-70, mem. Praesidium 1970-73; [illegible] Mongolian Acad. of Sciences; Vice-Pres. Perm. Int. Cttee. of Mongolists, Ulan Bator 1970; corresp. [illegible] Turkish Soc. of Language, Société Asiatique, Royal Asiatic Soc., American Oriental Soc., Finno-Ugrian Soc., Sächsische Akad. der Wissenschaft, Inst. de France, Acad. des Inscriptions et Belles Lettres; Kossuth Prize 1949; Indiana Univ. Prize for Altaic Studies—Gold Medal 1968, Gold Medal Hungarian Acad. of Sciences 1967, Order of Labour 1960, Order of the Flag of the Hungarian People's Repub. 1970, 1974, Lenin Memorial Medal 1970, Nairamdal Order Mongolia 1972, Diplôme d'honneur (Turkey) 1974, Order of Labour, Golden Degree 1975. *Publications:* Rapport préliminaire d'un voyage d'exploration fait [illegible] Mongolie chinoise 1933, Les voyelles longues en turc 1938, Catalogue du Kanjur mongol imprimé 1942-44, Le Subhasitaratnanidhi mongol 1948, Sur le déchiffrement des "petits caractères" jou-tchen 1953, L'histoire secrète des mongoles 1962, Un vocabulaire mongol d'Istanbul 1962, Documents sino-ouigours du bureau des traducteurs 1966-69, Monumenta Linguae Mong. 1970-74, Indices Verborum 1970-74. *Address:* Belgrád-1kp. 26, 1056 Budapest, Hungary. *Telephone:* 187-529.

LIGHT, Walter Frederick, B.SC.; Canadian business executive; b. 24 June 1923, Cobalt, Ont.; s. of Herbert Light and Rosetta Elizabeth (Hoffman) Light; m. Margaret Anne Wylie Miller 1950; two d.; ed. Queen's Univ., Ont.; joined Bell Canada 1949, Vice-Pres. Eng. 1967, Vice-Pres. Operations 1969, Exec. Vice-Pres. Operations 1970; Dir. Bell-Northern Research Ltd., B-N Software Research Inc., Cook Electric Co., Northern Telecom Canada Ltd., Northern Telecom Inc., Northern Telecom Industries Inc., Northern Telecom Int. Inc., Genstar Ltd., Hudson's Bay Oil and Gas Co. Ltd., The Royal Bank of Canada. *Leisure interests:* antiques, swimming. *Address:* 1600 Dorchester Boulevard West, Montreal, Quebec H3H 1R1 (Office); 5 Normandy Drive, Town of Mount Royal, Quebec H3R 3H7, Canada (Home). *Telephone:* (514) 931-5711 (Office); (514) 342-1386 (Home).

LIGHTHILL, Sir James, Kt., F.R.AE.S., F.R.S.; British professor of mathematics; b. 23 Jan. 1924, Paris, France; s. of Ernest B. and Marjorie (née Holmes) Lighthill; m. Nancy A. Dumaresq 1945; one s. four d.; ed. Trinity Coll., Cambridge; Sr. Lecturer, Manchester Univ. 1946-50, Beyer Prof. of Applied Maths. 1950-59; Dir. Royal Aircraft Establishment 1959-64; Royal Soc. Research Prof., Imperial Coll., London 1964-69; Physical Sec. Royal Soc. 1965-69; Lucasian Prof. of Maths., Univ. of Cambridge 1969-; Pres. Int. Comm. [illegible] Mathematical Instruction 1971-74; mem. Advisory Council on Research and Devt. 1978-; Hon. foreign mem. American Acad. of Arts and Sciences, American Philosophical Soc., American Inst. of Aeronautics and Astronautics, U.S. Nat. Acad. of Sciences and Nat. Acad. of Eng., Acad. des Sciences (France), Koninklijke Akad. van Wetenschappen; thirteen hon. doctorates; Royal Medal, Royal Soc.; Gold Medal, Royal Astronautical Soc., Modesto Panetti Prize, Timoshenko Medal. *Publications:* Higher Approximations in Aerodynamic Theory 1954, Fourier Analysis and Generalised Functions 1958, Mathematical Biofluiddynamics 1975, Waves in Fluids 1978, articles in collective works and learned journals. *Leisure interests:* music, swimming. *Address:* Department of Applied Mathematics and Theoretical Physics, Silver Street, Cambridge, England. *Telephone:* Cambridge 51645.

LIKHACHEV, Dmitriy Sergeyevich, D.SC.; Soviet professor of Russian literature; b. 28 Nov. 1906, Petersburg (Leningrad); s. of Sergey Likhachev and Vera Likhacheva; m. Zinaida Makarova 1936; two d.; ed. Leningrad State Univ.; Ed. in [illegible] publishing house 1932-38; Assoc. Inst. of Russian Literature (Pushkin House) of U.S.S.R. Acad. of Sciences 1938-, Head of Section of Early Russian Literature 1954-, Academician 1970-; Lecturer, Kazan State Univ. 1942-43; Prof. Leningrad State Univ. 1946-53; Hon. [illegible] Bulgarian Acad. of Sciences, Hungarian Acad. of Sciences, Serbian Acad. of Sciences and Arts; corresp. foreign mem. Austrian Acad. of Sciences; corresp. mem. British Acad.; Dr. h.c. (Oxford, Edinburgh and Torun Univs.); State Prize 1952, 1969. *Publications include:* National Self-Awareness in Ancient Russia 1945, The Culture of Old Russia at the Time of the Formation of the Centralised State 1946, Russian Chronicles 1947, The Emergence of Russian Literature 1952, The Image of Man in the Literature of Old Russia 1958, The 'Slovo o Polku Igoreve' (authoritative text) 1961; The Culture of the Russian People from 10th to 17th Centuries 1961, Russian Culture of the Time of Andrei Rublev 1962, Textology 1962, The Poetics of Old Russian Literature 1967, The Artistic Heritage of Old Russia 1971, The Evolution of Russian Literature from 10th to 17th Centuries 1973, A Great Heritage: The Classical Works of Old Russian Literature 1975, The 'Laughing World' of Old Russia 1976, Russische Literatur und europäische Kultur des 10-17 Jahrhunderts 1977, and several Russian titles. *Leisure interests:* Problems of town-buildings (theory) and the history of Petersburg-Leningrad.

LILIENFELD, Abraham M., A.B., M.D., M.P.H.; American epidemiologist; b. 13 Nov. 1920, New York City; s. of Eugenia Kugler and Joel Lilienfeld; m. Lorraine Zemil 1944; three c.; ed. Johns Hopkins Univ., and Univ. of Maryland; Assoc. Public Health Physician, N.Y. State Dept. of Health 1949-50; Dir. Southern Health Dist., Baltimore 1950-52; Asst. Prof. of Epidemiology, Johns Hopkins Univ. 1952-54, Prof. and Chair. Dept. of Chronic Diseases 1958-70, Prof. and Chair. Dept. of Epidemiology 1970-75; Univ. Distinguished Prof. of Epidemiology 1975-; Chief Dept. of Statistics and Epidemiological Research, Roswell Park Memorial Inst., Buffalo 1954-58; Assoc. Prof. Medical Statistics Univ. of Buffalo 1954-58; mem. Nat. Advisory Heart Council 1962-66; mem. Research Advisory Council, American Cancer Soc. 1965-70; mem. Scientific Council, Int. Agency for Cancer Research 1965-67; [illegible] Nat. Inst. Neurological Diseases and Stroke 1968-71; Chair. U.S. Nat. Cttee. [illegible] Vital and Health Statistics 1972-74; Fellow, American Statistical Assn. 1970, American Public Health Assn.; mem. American Epidemiological Soc., Pres. 1970; Heath Clark Lecturer, London School of Tropical Medicine and Hygiene 1979; Hon. D.Sc. (Univ. of Md.) 1975; Bronfman Prize of American Public Health Assn. 1968; John Snow Award, Epidemiology Section, American Public Health Assn. 1975. *Publications:* Prenatal Factors in Cerebral Palsy 1951, Prenatal Factors in Childhood Neuropsychiatric Disorders 1951-56, Tobacco Use and Bladder Cancer 1956, Epidemiological Methods 1957, Epidemiology of Cancer 1954-, Chronic Diseases and Public Health 1966, Cancer Epidemiology: Methods of Study 1967, Epidemiology of Mongolism 1969, Cancer in the United States 1972, Epidemiological Studies [illegible] Cerebrovascular Diseases 1969-74, Epidemiological Studies of Digestive Diseases 1974, Foundations of Epidemiology 1976, Genetic Issues in Public Health and Medicine 1978. *Address:* 3203 Old Post Drive, Pikesville, Md. 21208, U.S.A. *Telephone:* 301-484-0652.

LILIENTHAL, David Eli, A.B., LL.B.; American public servant, business executive and writer; b. 8 July 1899, Morton, Ill.; s. of Leo Lilienthal and Minna Rosenak; m. Helen Lamb 1923; one s. one d.; ed. De Pauw Univ., and Harvard; admitted to Ill. Bar 1923, Tenn. Bar 1934; law practice in Chicago 1923-31; [illegible] Wis. Public Service Comm. 1931-33; Dir. Tennessee Valley Authority 1933, Chair. 1941-46; Chair. U.S. Atomic Energy Comm. 1946-50; Chair. U.S. State Dept. Bd. of Consultants [illegible] Int. Control of Atomic Energy 1946; Consultant to Pres. of Colombia; Chair. Devt. and Resources Corpn. 1955-; Iran Council of Asia Soc., New York; Dir. Fund for Multinational Management Educ.; mem. American Acad. of Arts and Sciences, American Philosophical Soc.; Progressive Farmer Award for services to agric. 1945; Catholic Cttee. of the South Award 1946; Public Welfare Award, Nat. Acad. of Sciences 1951; Freedom House Award 1949, Comendador de la Orden el Sol del Peru 1964, Order of Rio Branco (Brazil) 1972. *Publications:* TVA: Democracy on the March 1944, This I Do Believe 1949, Big Business: A New Era 1953, Change, Hope and the Bomb 1963, The Journals of David E. Lilienthal (Vols. I and II) 1964, (Vol. III) 1966, (Vol. IV) 1969, (Vol. V) 1971, (Vol. VI) 1976, Management: A Humanist Art 1967. *Leisure interests:* gardening, small boat sailing. *Address:* 1230 Avenue of the Americas, New York, N.Y.; and [illegible] Battle Road, Princeton, N.J. 08540, U.S.A.

LILJESTRAND, Maj.-Gen. Bengt T:son, M.A., DIPL.C.E.I.; Swedish army officer; b. [illegible] Feb. 1919, Stockholm; ed. Uppsala Univ., Centre d'Etudes Industrielles, Geneva and Inst. Univ. de Hautes Etudes Internationales, Geneva; Instructor, Royal Nat. Defence Coll. 1960-62; Co-ordination Office, Defence Dept. 1962-63; Defence Staff, Org. and Total Defence Section 1964-66; Commdr. Boden Artillery Regt. 1968-69; Chief of Staff, Western Region 1969-73; Dir., Gen. Staff Coll. of Armed Forces 1973-74; Chief of Staff UN Truce Supervision Org. in Palestine 1974-75; Commdr. UN Emergency Force 1975-76; Dir. Nat. Defence Inst. 1978-; Commdr. 1st Class Royal Swedish Order of the Sword, Kt. Finnish Order of Freedom. *Address:* Royal National Defence Institute, 100 45 Stockholm, Sweden. *Telephone:* 8-67-96-20.

LILL, John Richard, O.B.E., F.R.C.M.; British pianist; b. 17 March 1944, London; s. of George Lill and the late Margery (née Young) Lill; ed. Leyton County High School and Royal Coll. of Music; gives recitals throughout the world and has appeared as soloist with many leading orchestras; Fellow, Royal Coll. of Music, Trinity Coll.

of Music, London, London Coll. of Music; Hon. D.Sc. (Univ. of Aston); numerous prizes include First Prize, Int. Tchaikovsky Competition, Moscow 1970. *Leisure interests:* chess, amateur radio, walking. *Address:* c/o Harold Holt Ltd., 134 Wigmore Street, London, W1H 0DJ, England. *Telephone:* 01-935 2331.

LILLEHEI, Richard Carlton, PH.D.; American professor of surgery; b. 10 Dec. 1927, Minneapolis, Minn.; s. of Clarence I. and Elizabeth Lillehei; m. Elizabeth Jeanne Larsen; four s.; ed. Univ. of Minnesota; Intern, Minn. Gen. Hosp. 1951-52; Medical Fellow, Univ. of Minn. 1952-54, Asst. Prof. 1960-62, Assoc. Prof. 1962-66, Prof. of Surgery 1966-; Postdoctoral Research Fellow, Walter Reed Army Medical Center 1954-56; John & Mary R. Markle Scholar in Medical Sciences 1960-65; Hektoen Gold Medal (American Medical Assn.) 1964. *Publications:* 358 publs. up to Dec. 1978. *Leisure interest:* marathons. *Address:* University of Minnesota Hospital, 420 Delaware Street, S.E., Mayo Box 490, Minneapolis, MN 55455; 1814 Oliver Avenue South, Minneapolis, MN 55405, U.S.A. (Home). *Telephone:* (612) 373-8818 (Office); (612) 377-0799 and (612) 377-6081 (Home).

LILLEY, Tom; American industrialist; b. 13 Aug. 1912, Bluefield, W. Va.; s. of Charles Ellis and Minnie Holland Lilley; m. Nancy Clegg 1936; three d.; ed. Harvard Univ.; Industrial Dept. Lehman Brothers, New York 1936-40; Assoc. Prof. and Asst. Dir. of Research, Harvard Business School 1942-48; entered Ford Motor Co. 1948, Asst. Divisional Controller 1951, Asst. Gen. Man., Ford Int. Div. 1954, Vice-Pres. and Gen. Man., Int. Div. 1957-59, Vice-Pres. Ford Int. Staff 1960-65; Dir. Export-Import Bank of the United States 1965-72; Dir. Continental-Illinois Ltd., London 1973-74, Population Crisis Cttee. 1974-. *Address:* 1522 34th Street, N.W., Washington, D.C. 20007, U.S.A.

LILLIE, Beatrice (Lady Peel); British actress; b. 29 May 1898, Toronto, Canada; d. of John Lillie and Lucie Shaw; m. Sir Robert Peel 1920 (died 1934); one s. (dec.); ed. St. Agnes' Coll., Belleville, Ont., Canada; numerous appearances in revues and cabarets, London and New York 1914-; first One-Woman Show, Summer Theater, New York 1952, second (Beasop's Fables) U.S.A. 1956; An Evening with Beatrice Lillie, London and Florida 1956; appeared at Ziegfeld Follies, New York 1957; played leading role in Auntie Mame, London 1958; appeared in the films Exit Smiling 1927, Doctor Rhythm 1938, On Approval 1944, Around the World in Eighty Days 1956, Thoroughly Modern Millie 1967; Donaldson Award 1945, Antoinette Perry Award 1953, etc. *Publication:* Every Other Inch a Lady (with J. Philip and J. Brough) 1973. *Leisure interest:* painting. *Address:* Peel Fold, Mill Lane, Henley-on-Thames, Oxon, England.

LIM CHONG EU, M.B., CH.B.; Malaysian politician; b. 28 May 1919, Penang; ed. Penang Free School, Edinburgh Univ.; Medical Officer (Flight Lieut.) Malayan Auxiliary Air Force 1951-54; private medical practice; mem. Penang State Settlement Council 1951; Radical Party 1952-58; mem. Fed. Council for Penang 1955-57, Alliance Chief Whip; Pres. Malayan Chinese Assen. (M.C.A.) 1958-59, resigned ■ Pres. 1959, left M.C.A. 1960; Chair. pro tem. Cttee. of United Democratic Party 1962-63, Gen. Sec. 1963-66, Pres. 1966-68; Deputy Chair. Gerakan Rakyat Malaysia 1968-71, Pres. 1971-, Chair. Tanjong Branch 1969-; mem. for Kota, Penang State Assembly, mem. for Tanjong, House of Reps. 1964-; Chief Minister of Penang 1969-; Chair. Penang State Goodwill Cttee. 1969-, State Operations Cttee. 1969-; mem. Malayan Medical Council 1964; Pres. Northern Branch of Malayan Medical Assen. 1968-69, fmr. mem. Exec. Council; fmr. Pres. Penang Medical Practitioners' Soc., Hon. mem. 1969-; Hon. LL.D. (Univ. of Science, Malaysia) 1976. *Address:* Pejabat Ketua Menteri, Bangunan Tuanku Syed Putra, Peti Surat 3006, Penang, Malaysia.

LIM KIM SAN; Singapore politician; b. 1916, Singapore; ed. Raffles Coll., Singapore; Dir. United Chinese Bank Ltd., Chair. Batu Pahat Bank Ltd., and Pacific Bank Ltd. 1940-; mem. and Deputy Chair. Public Service Comm., Singapore 1959-63; Chair. Housing Devt. Bd. 1960-63; Deputy Chair. Econ. Devt. Bd. 1961-63; Minister for Nat. Devt. 1963-65, for Finance 1965-67, for the Interior and Defence 1967-70, for Educ. 1970-72, for the Environment 1972-75, of Nat. Devt. 1976-79, for Communications 1975-79, for the Environment 1979-; awarded Darjah Utama Temasek (Order of Temasek) 1962; mem. of Dewan Ra'ayat; Ramon Magsaysay Award for community leadership 1965. *Address:* c/o Ministry of the Environment, Princess House, Alexandra Road, Singapore 3.

LIM, Manuel, A.B., LL.B., LL.M., D.C.L.; Philippine lawyer, public servant and business executive; b. 6 Aug. 1899, Bautista, Pangasinan; s. of the late Mariano Lim and Josefa Moran de Lim; m. Emilia Quintos de Lim 1923; three s. four d.; ed. Ateneo de Manila Univ., Univ. of Philippines and Univ. of Santo Tomás; Lawyer 1921-41, 1945-47, 1948-57, 1958-60, 1962-; Dean and Prof. Coll. of Law, Ateneo de Manila 1936-41, 1947-59; Prof. of Law, Univ. of Santo Tomás 1938-41; Assoc. Justice, Court of Appeals 1946-47; Solicitor-Gen. and Under-Sec. of Justice 1947-48; Pres. Realty Investments Inc. 1950-; Chair. Mindanao Mother Lode Mines Inc. 1949-60; Pres. Tax Service of Philippines Inc. 1957-59; Sec. of Educ., Govt. of Philippines 1957-59, of Commerce and Industry 1959-62; Vice-Pres., Dir. and Gen. Counsel Philippine American Life Insurance Co. 1962-70; Chair. Corporate Promotions Inc. 1965-; Shrimp Processing Corpn. of Philippines 1968-, Pentagon Mines Inc. 1970-75, Pacific Richfield Corpn. 1975-; Chair. Comm. on Asian and Far Eastern Affairs—Int. Chamber of Commerce 1967-69; Chair. Philippine Council, Int. Chamber of Commerce 1963-77, Hon. Pres. 1976-; Pres. Philippine Motor Assen. 1973-(Dir. 1965-), Philippine Constitution Assen. 1975-76, Papal Awardees Assen. of the Philippines 1975-; Vice-Pres. Alliance Int. de Tourisme 1978-; Chair. Consumers' Union of the Philippines 1973-75; Vice-Chair. Energy Conservation Movement 1975-; charter mem. Philippine Chamber of Commerce and Industry Inc. 1978-; ■ Labour-Management Advisory Council 1963-, and numerous legal and other associations and official of many industrial companies; numerous decorations. *Leisure interests:* philately, photography, books, music. *Address:* 103 Magallanes Avenue, Magallanes Village, Makati, Rizal, Philippines. *Telephone:* 87-25-40.

LIMA, Francisco Roberto, LL.D.; Salvadorian lawyer and diplomatist; b. 13 Feb. 1917; ed. Saint Michel School, Brussels, Lycée Lakanal, Paris, Quernmore School, London, and Univ. de El Salvador; Rockefeller Foundation Fellowship, Inst. of Anthropology and Social Sciences, Univ. de Mexico 1941-45; practising lawyer 1945-56; Chief of Dept. of Statistics, Dept. of Labour 1946; Chief of Social Security Comm., El Salvador 1947-49; Alt. Rep. to UN 1956-59; Rep. on Exec. Bd. UNICEF 1957-59; Vice-Pres. Council of American States 1961-62; Amb. of El Salvador to U.S.A. and Rep. to OAS 1962-64; Vice-Pres. El Salvador 1962-67; Pres. OAS Cttee. on Econ. and Social Affairs 1964-65. *Address:* c/o Ministerio de Relaciones Exteriores, Km. 6, Carretera Panamericana, San Salvador, El Salvador.

LIMERICK, 6th Earl of, cr. 1803 (Ireland); **Patrick Edmund Pery,** M.A., C.A.; British merchant banker; b. 12 April 1930, London; s. of 5th Earl of Limerick (Edmund Colquhoun Pery) and Angela Olivia (née Trotter); m. Sylvia Rosalind Lush; two s. one d.; ed. Eton and New Coll., Oxford; Nat. Service Comm. with 2nd Dragoon Guards 1948-50; Territorial Army Comm. with City of London Yeomanry 1950-61; qualified ■ Chartered Accountant with Peat, Marwick, Mitchell & Co. 1953-58; joined Kleinwort Sons & Co. 1958; Dir. Kleinwort Benson Ltd. 1966-72, 1974-; mem. Council, London Chamber of Commerce and Industry 1968; London Dir. Commercial Bank of Australia Ltd. 1969-72; Parl. Under-Sec. of State for Trade 1972-74; Pres. Assen. of British Chambers of Commerce 1974-77, Vice-Pres. 1977-; mem. British Overseas Trade Bd. 1975-; Dir. numerous cos. 1976-; Chair. Cttee. for Middle East Trade 1975-; Pres. Ski Club of Great Britain 1974-; Vice-Pres. Alpine Ski Club 1974-76. *Publications:* numerous specialist articles. *Leisure interests:* mountaineering, skiing, boating. *Address:* Chiddinglye, West Hoathly, East Grinstead, Sussex; 30 Victoria Road, London, W8 5RG, England. *Telephone:* Sharpthorne 810214 (Sussex); 01-937 0573 (London).

LIN, Chia-Chiao, B.SC., M.A., PH.D.; American applied mathematician; b. 7 July 1916, Fukien, China; s. of Kai and Y. T. Lin; m. Shou-Ying Liang 1946; one d.; ed. Nat. Tsing Hua Univ., Univ. of Toronto, Calif. Inst. of Technology. Asst. Prof. of Applied Maths., Brown Univ. 1945-46, Assoc. Prof. 1946-47; Assoc. Prof. of Maths., M.I.T. 1947-53, Prof. 1953-66, Inst. Prof. of Applied Maths. 1966–; Guggenheim Fellow 1954-55, 1960; Pres. Soc. for Industrial and Applied Maths. 1973; mem. Nat. Acad. of Sciences; John von Neumann Lecturer, Soc. for Industrial and Applied Maths. 1967. *Publications:* The Theory of Hydrodynamic Stability 1955, Turbulent Flow, Theoretical Aspects 1963. *Leisure interest:* astronomy. *Address:* Department of Mathematics, Massachusetts Institute of Technology, Cambridge, Mass, 02139, U.S.A. *Telephone:* 617-894-7997.

LIN CHIN-SHENG, B.L.; Chinese politician; b. 4 Aug. 1916; ed. Law Coll., Tokyo Imperial Univ.; Magistrate, Chiayi Co. Govt. 1951-54; Chair. Yunlin Co. HQ, Kuomintang (Nationalist Party of China) 1954-57; Magistrate, Yunlin Co. Govt. 1957-64; Dir. Cheng-Ching Lake Industrial Waterworks 1964-67; Commr. Taiwan Provincial Govt. 1966-70; Sec.-Gen. Taiwan Provincial HQ, Kuomintang 1967-68, Chair. Taipei Municipal HQ 1969-70, Deputy Sec.-Gen. Cen. Cttee. 1970-72, mem. Standing Cttee. of Cen. Cttee. 1976-; Minister of the Interior 1972-76, of Communications 1976-; ■

Standing Cttee. of Kuomintang Cen. Cttee. 1976-; Order of the Brilliant Star. *Address:* Ministry of Communications, 2 Changsha Street, Section 1, Taipei, Taiwan.

LIN HU-CHIA; Chinese government official; Dir., Propaganda Dept., CCP Chekiang Prov. Cttee. 1951; Council mem. Chekiang People's Prov. Govt. 1951; Deputy Sec. CCP Chekiang Prov. Cttee. 1955; Sec. CCP Chekiang Prov. Cttee 1957-67; Deputy Head production inspecting delegation CCP Chekiang Prov. Cttee. 1958; branded a rightist opportunist 1967; mem. Pres. CCP 11th Cen. Nat. Congress 1977-; mem CCP 11th Cen. Cttee. 1977-. First Sec. Tientsin Municipal CCP Cttee 1978; Chair. Tientsin Municipal Revolutionary Cttee. 1978; First Sec. Peking CCP Cttee. 1978-; Chair. Peking Revolutionary Cttee. 1978-. *Address:* People's Republic of China.

LIND, Nathalie, LL.B.; Danish lawyer and politican; b. 1 Oct. 1918, Copenhagen; d. of Aage Lind and Ane Johanne Lind (née Bjørndahl); m. 1st Erik Tfelt-Hansen 1943 (died 1962), 2nd Erik Langsted 1968; two s.; Sec. Mothers' Aid Inst., Copenhagen 1943-44; Asst. Chief Constable, Ålborg 1945-48; barrister Ålborg 1949; Asst. to Public Prosecutor, Ålborg 1949; M.P. for County of Frederiksborg 1964-66, for County of Ribe 1968-; mem. Exec. Cttee. of Liberal Party 1967-68; Minister of Social Affairs 1968-71; Minister of Justice 1973-75, Aug. 1978-; Minister of Cultural Affairs 1973-75; Head of Div. of Nat. Social Appeal Bd. 1975-78; Judge in Court of Appeal of Social Affairs; Chair. Women's Debating Soc., Ålborg 1947-55; Chair. Copenhagen Section of Danish Women's Soc. 1959-62; Nat. Chair. of Danish Women's Soc. 1966-68; Gwanghwa Medal (Korea); Commdr. of 1st degree of Order of Dannebrog, Order of Yugoslav Flag (with ribbon). *Address:* Marielystvej 26, 2000 Copenhagen F, Denmark.

LINDBERG, Stig; Swedish professor, designer and ceramic artist; b. 17 Aug. 1916, Umeå; s. of F. H. S. Lindberg and Lydia Larsson; m. Gunnel Jonsson 1939; one s. two d.; ed. Stockholm State School of Arts and Crafts; began work at Gustavsberg potteries 1937; founded with Prof. Kage Gustavsberg Studio 1943, Art Dir. 1949-58, 1971-; textile designer for Nordiska Kompaniet, Stockholm 1947-; Chief Instructor, Stockholm State School of Arts and Crafts 1957-70; now working in pottery, porcelain and textile design, posters, drawings and sculpture; invented and introduced enamel painting for murals on steel sheet 1949; many exhibitions, including Stockholm 1941, Zürich 1947, Copenhagen 1949, Berlin 1952, New York 1951 and 1957, Tokyo 1959, London 1961, 1966, Cologne 1965, Amsterdam 1968; rep. at Victoria and Albert Museum (London), Museum of Modern Art (New York), Museum für angewandte Kunst (Vienna), Stockholm Nat. Museum, Kunstindustrimuseum (Copenhagen), etc.; Grand Prix Milan Triennali 1951 and 1954, Swedish State Art Award 1967, 1968, Gold Medals: Cannes 1955, Prague 1962, Ljubljana 1965, Munich 1966. *Principal Works:* Terma flameware 1955, ceramic wall decoration at Saltsjöbaden 1949, playing-card design 1948, service in bone china for Stockholm town hall 1959, stoneware fountain for Stockholm Folksam Building 1960; big murals: Alfa Laval Tumba 1965, Nacka Hospital 1966, Kabi Stockholm 1967; glass design for Holmegaard Danmark 1970, "Librick" tray service for hospitals 1970. *Leisure interests:* piano and guitar. *Address:* Gustavsberg, Sweden. *Telephone:* 0766-30297.

LINDEBRAEKKE, Sjur, LL.D.; Norwegian banker and politician; b. 6 April 1909, Voss; s. of Gjert and Ida Lindebraekke (née Lie); m. Aagot Vedeler Stoltz 1936; one s. two d.; ed. Univ. of Oslo; Asst. Man. Bergens Privatbank, Bergen 1940-45, Jt. Man. Dir. 1945-59, Gen. Man. Dir. 1959-75, Chair. of Bd. 1968-75; Pres. Governmental Reparations Directorate 1945-46; Pres. Norwegian Bankers' Assn. 1954-60; M.P. 1945-53; Vice-Chair. Conservative Party 1950-54, Chair. 1962-70; Cttee. mem. The Christian Michelsen Inst. for Science and Intellectual Freedom; mem. Norwegian Nobel (Peace Prize) Cttee. 1975-; Hon. mem. Royal Norwegian Acad. of Sciences; mem. Int. Inst. of Banking Studies; Knight First Class St. Olav Order 1960. *Publications:* Transfer of Ownership by Voluntary Transfer of Personal Property 1940, Negotiable Documents, Norwegian Indemnification Law, Documentary Credit Law, Ownership and Seizure in Bankruptcy Proceedings 1946, Confidence and Political Confidence 1953, At a New Era 1965, Co-operative Society 1969, The Way Onward 1973. *Leisure interests:* outdoor life, literature. *Address:* Blaauwsvei 4, 5000 Bergen, Norway. *Telephone:* 29 47 94.

LINDEMANN, Erich Friedrich; German chemist and business executive; b. 19 Oct. 1919, Isernhagen; s. of Heinrich and Auguste Lindemann (née Hasse); m. Ursula Heger 1951; one s. one d.; ed. Technische Hochschule, Hanover, Univs. of Göttingen and Freiburg im Breisgau; Chair. Bd. of Dirs., Agfa-Gevaert Group 1964-77, Pres. 1975-. *Address:* Agfa-Gevaert AG, 5090 Leverkusen 1; Uppersberg 60, 5090 Leverkusen 1, Federal Republic of Germany. *Telephone:* 02172-30-4633 (Office); 02172-5-25-35.

LINDER, Harold F(rancis); American banker and government official; b. 13 Sept. 1900; ed. Columbia Univ.; Pres. Cornell, Linder and Co. 1925-33; Partner, Carl M. Loeb, Rhoades and Co. 1933-38; philanthropic work and corporate directorships 1938-61; U.S. Navy 1941-45; Pres. Gen. American Investors Co. Inc. 1948-51; Deputy Asst. Sec. of State for Econ. Affairs 1951, Asst. Sec. 1952-53; Pres. and Chair. Export-Import Bank 1961-68; U.S. Amb. to Canada 1968-69; Chair. Bd. of Trustees Inst. for Advanced Study, Princeton, N.J. 1969-73, Chair. Emer. 1973-; Consultant, Int. Finance Corpn. 1970-76. *Address:* Room 4201, 40 Wall Street, New York, N.Y. 10005 (Office); 10 East 70 Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* 212-425-0333 (Office).

LINDH, Sten, LL.B., B.A.; Swedish diplomatist and industrialist; b. 24 Oct. 1922; m. Maikki Birgitta Velander 1945; two s. one d.; ed. Kalmar Grammar School, Stockholm Univ. and Stockholm Business School; entered Swedish Foreign Service 1945, served Washington, Paris, London, Geneva and Brussels; Ministry of Finance 1950-51; Head of Dept., Ministry of Foreign Affairs 1959, 1961-63; Head of EFTA Secr., Geneva 1960; Amb. to the European Econ. Communities and Perm. Rep. to Council of Europe 1964-67; Amb. en disponibilité 1968; Pres. Euroc A.B. (fmrly. Skånska Cement A.B.) 1968-, European Cement Assn. 1976-; Dir. Gränges A.B., Skånska Cementgjuteriet A.B., Skandinaviska Enskilda Banken A.B., A.B. Cardo, Liberian American-Swedish Minerals Co., Swedish Lamco Syndicate, Fed. of Swedish Industries; mem. Royal Soc. of Letters, Lund Univ. *Address:* Euroc A.B., P.O. Box 30 600, S-200 62 Malmö (Office); Gimle, S 260 90 Båstad, Sweden (Home). *Telephone:* 040/16 50 00 (Office); 0431/616 20 (Home).

LINDHARDT, Poul Georg, D.TH.; Danish university professor; b. 12 Dec. 1910, Nakskov; s. of G. W. Lindhardt and Caroline Christensen; m. Gerda Winding 1937; four s.; ed. Univ. of Copenhagen; ordained 1934, Minister in various parishes 1934-42; Asst. Lecturer Univ. of Copenhagen 1939-41, Aarhus Univ. 1941-42; Prof. of Church History, Aarhus Univ. 1942-, Dean of Faculty of Divinity 1944, 1948, 1953, 1957, 1962, 1969-71; Minister of Our Lady's Church, Aarhus 1945. *Publications:* Konfirmationens Historie i Danmark 1936, Danmark og Reformkoncilierne 1942, Bibelen og det danske Folk 1942, Den nordiske Kirkes Historie 1945, Dines Pontoppidan 1948, Morten Pontoppidan I 1950, II 1953, Grundtvig, An Introduction 1951, Vækkelser og kirkelige retninger 1951, Det evige Liv 1953, En dansk Sognepræst 1954, Fem Aalborg-Bisper 1954, Religion og Evangelium 1954, Kirken igaar og idag 1955, 15 Prædikener 1956, Danmarks kirkehistorie 1849-1901, To Højkirkemænd, Repliker, Helvedsstrategi 1958, F. C. Krarups Breve til Lyder Brun 1959, Stat og kirke 1960, Biskop Chr. Ludwigs visitatsdagbog 1960, Paaskud og Prædikener 1963, Grundtvig 1964, Det religiøse liv i senmiddelalderen 1966, Den danske reformations historie 1966, Den danske kirkes historie 1901-65, 1966, Nederlagets Maend 1968, Brudstykker af en postil 68, Thomas Skat Rørdam 1969, Konfrontation 1974, Gentagelse 1975, Regeneration 1977, Dansk Kirkekundskab 1979. *Leisure interest:* travelling. *Address:* The University, Aarhus; and 8541 Skødstrup, Denmark. *Telephone:* 06-99-11-91.

LINDLEY, Sir Arnold Lewis George, D.SC., C.G.I.A., F.I.MECH.E., F.I.E.E.; British electrical manufacturing executive; b. 13 Nov. 1902, London; s. of George Dilnot Lindley and Charlotte Hooley; m. 1st Winifred May Lindley 1927 (deceased), 2nd Maud Lindley 1963; s. one d.; ed. Woolwich Polytechnic; Chief Engineer, British Gen. Electric Co. (B.G.E.C.), South Africa 1933-45, Dir. and Man. 1945-49; Dir. East Rand Eng. Co. 1943-49; Gen. Man. Erith Works, Gen. Electric Co. (G.E.C.), England 1949-58, Dir. G.E.C. 1953-64, Asst. Man. Dir. 1958-59, Man. Dir. 1959-61, Chair. 1961-64; Chair. Eng. Industry Training Bd. 1964-74; Deputy Chair. Motherwell Bridge (Holdings) Ltd. 1965-; Pres. British Electrical and Allied Mfg. Assn. 1961-63; Int. Electrical Assn. 1962-64, Inst. Mech. Eng. 1968-69; Chair. Council of Eng. Insts. 1969-72. *Leisure interests:* golf, sailing. *Address:* Heathcote, 18 Nab Lane, Shipley, West Yorkshire, England.

LINDO, Sir (Henry) Laurence, G.C.V.O., C.M.G.; Jamaican diplomatist (retd.); b. 13 Aug. 1911, Port Maria; s. of Henry Alexander and Ethel Mary Lindo (née Gibson); m. Holly Robertson Clacken 1943; two d.; ed. Jamaica Coll., Jamaica, and Keble Coll., Oxford; Inspector of Schools, Jamaica 1935; Asst. Information Officer 1939-43; Asst. Sec. Colonial Secretariat 1945-50, Principal Asst. Sec. 1950-52; Administrator, Dominica, Windward Islands 1952-59; Acting Gov. Windward Islands 1957, 1959; Governor's Sec., Jamaica 1960-62; High Commr. for Jamaica in U.K. 1962-73, concurrently Amb. to France 1966-72, to Federal Republic of Germany 1967-70; Vice-Chair. Bd. of Govs. Commonwealth Inst., Cen. Council of Royal Over-seas League 1975; Order of Jamaica 1973. *Leisure interests:* reading, walking, watching cricket. *Address:* c/o Royal Bank of Canada, Cockspur Street, London, S.W.1. England.

LINDON, Jérôme; French publisher; b. 9 June 1925; s. of Raymond Lindon and Thérèse Baur; m. Annette Rosenfeld 1947; two s. one d. Pres., Dir. Gen. Editions de Minuit 1948-, has published novels of the "nouveau roman" (Beckett, Robbe-Grillet, Butor, Nathalie Sarraute, Simon, Pinget, etc.); had nine books seized because of his opposition to the Algerian war. *Publication:* Jonas 1955. *Address:* Editions de Minuit, 7 rue Bernard Palissy, 75006 Paris, France. *Telephone:* 222-37-94.

LINDSAY, Jack, B.A., F.R.S.L.; British author; b. 20 Oct. 1900, Melbourne, Australia; s. of Norman Lindsay and Catharine Parkinson; m. Meta Waterdrinker 1958; [illegible] s. one d.; ed. Queensland Univ.; earlier work mainly verse; began series of translations of Greek and Latin poets; went to England 1926; Man. and Ed. Fanfrolico Press until 1930; began novel-writing and direct historical work in 1930s; first historical novel 1934; served in Signals and in War Office 1941-45; Fellow, Royal Soc. of Literature; D.Litt. (Queensland); Gold Medal Australian Soc. of Literature 1960; Soviet Order Znak Pocheta 1968. *Publications* include poetry: Fauns and Ladies, Passionate Neatherd, Hereward (verse drama); William Blake, The Romans, Arthur and his Times, Short History of Culture, Byzantium into Europe, Daily Life in Roman Egypt, Origins of Alchemy, Origins of Astrology, The Clashing Rocks, Helen of Troy, The Normans, The Troubadors, Decay and Renewal; trans. Lysistrata, Women in Parliament, complete works of Petronius, Latin Medieval Poets, I am a Roman; Editor Metamorphosis of Aiax (Sir John Harington, 1596), Loving Mad Tom (Bedlamite verses), Parlement of Pratlers (J. Eliot; 1593); art criticism: Life of Turner, Cézanne, Courbet, Hogarth; history: The Monster City, Defoe's London 1978; biographies: John Bunyan, George Meredith, Charles Dickens, William Morris; autobiography: Life Rarely Tells, The Roaring Twenties, Fanfrolico and After; novels: Rome For Sale, Caesar is Dead, The Barriers [illegible] Down, 1649, Lost Birthright, We Shall Return, Rising tide, All on the Never-Never (film Live Now Pay Later). *Leisure interests:* field archaeology, bricklaying, tree-planting. *Address:* Castle Hedingham, Halstead, Essex, England. *Telephone:* Hedingham 60259.

LINDSAY, John Vliet; American lawyer and politician; b. 24 Nov. 1921, New York City; s. of George and Eleanor (Vliet) Lindsay; m. Mary Harrison 1949; one s. three d.; ed. The Buckley School, St. Paul's School, Concord, Yale Univ., and Yale Law School; admitted to New York Bar 1949, D.C. Bar 1957; [illegible] Webster and Sheffield, New York 1948-55, 1974-; Exec. Attorney to U.S. Attorney-Gen. 1955-57; mem. U.S. House of Reps. 1959-65; Mayor of New York 1966-73; Commentator on ABC-TV programmes; Hon. LL.D. (Harvard) 1968. *Publications:* Journey into Politics 1966, The City 1970, The Edge 1976. *Address:* 1 West 67th Street, New York, N.Y. 10023, U.S.A.

LINDSAY, Lieut.-Gen. Richard Clark; American air force officer (retd.); b. 31 Oct. 1905, Minneapolis; s. of Edwin H. and MaBelle Clark Lindsay; m. Margaret Eloise Ball 1930 (divorced); one s. one d.; ed. Univ. of Minnesota; commissioned Second Lieut. Air Corps, U.S. Army 1929, advancing through grades to Major-Gen. 1948; various peacetime assignments 1929-41; Asst. Chief and Chief European-African Section, Air Plans, War Dept., Washington, D.C. 1941-42; Staff Asst. and Chief of Combined Subjects Section, Operations Div., War Dept. Gen. Staff 1942-43; Army Air Force mem. Joint War Plans Cttee. of Joint Chiefs of Staff 1943-44; Army Air Force mem. Joint Staff Planners of Joint Chiefs of Staff Org. 1944-45; Asst. Chief of Staff, Plas. (A-5), HQ U.S. Army Strategic Air Force 1945, at Guam and Pacific Air Command, Manila 1945; commdg. 316th Bombardment Wing (VH), 8th Air Force, Okinawa 1946; Asst. Chief of Staff, A-2, HQ F.E.A.F. 1947; Chief, Policy Div., Directorate of Plans and Operations and Air Planner, HQ U.S.A.F., Washington, D.C. 1947-48; Deputy Dir. Plans and Operations, Office of DCS/O 1948-49; Deputy Dir. for Strategic Plans, The Joint Staff, Joint Chiefs of Staff 1949-51; Standing Group Liaison Officer to NATO 1951-52; Commdg. Gen. 3650th Air Force Indoctrination Wing, Sampson Air Force Base, N.Y. 1953-54; Dir. Plans. DCS/O 1954-57; Asst. Deputy Chief of Staff, Operations Feb.-Aug. 1957; Commdr. Allied Air Forces, Southern Europe 1957-60; retd. from active service April 1960; Res. Consultant The Rand Corpn. 1961-63, Consultant 1964-; Asst. to Pres. Electronic Communications Inc. 1963-64; Asst. to Pres. and Dir. European Staff, Litton Systems European Div. 1964-, Exec. Asst. to Pres. Econ. Devt. Div. 1965; Gen. Man. Cen. Econ. Devt. Org., Washington 1966-67; decorations include D.S.M. (U.S.), Hon. C.B.E. *Leisure interests:* sound recordings (transcribing records, tapes, etc.), still and motion picture photography. *Address:* 1001 East California Avenue, Apartment 12A, Glendale, Calif. 91206, U.S.A. *Telephone:* 213-243-5529.

LINDSKOG, (Claes) Folke; Swedish business executive; b. 18 Jan. 1910, London, England; s. of the Rev. Jonas Lindskog and Maria (née Smit); m. Marguerite Thatcher (née Troskie) 1941; two s. one d.; ed. Royal Inst. of Technology, Stockholm; Man. Dir. The SKF Ball Bearing Co. (Pty.) Ltd., Johannesburg, S. Africa 1957-60, The Skefko Ball Bearing Co. Ltd., Luton, England 1960-64; Man. Dir. and mem Bd. Aktiebolaget Svenska Kullagerfabriken, Gothenburg, Sweden 1964-71, Chair. Bd. 1971-. *Address:* Aktiebolaget SKF, Hornsgatan 1, S415 50 Gothenburg, Sweden. *Telephone:* 031-371000.

LINDSLEY, Donald Benjamin, A.B., M.A., PH.D.; American professor of psychology and physiology; b. 23 Dec. 1907, Brownhelm, Ohio; s. of Benjamin Kent Lindsley and Martha Elizabeth Jenne; m. Ellen Ford 1933; two s. two d.; ed. Wittenberg Univ. and Univ. of Iowa; Instructor in Psychology, Univ. of Ill. 1932-33; Nat. Research Council Fellow, Harvard Medical School 1933-35; Research Assoc., W. Reserve Univ. Medical School 1935-38; Asst. Prof. Brown Univ. and Dir. Psychology and Neurophysiology Lab., Bradley Hosp. 1938-46; Dir. Radar Research Project, Office of Scientific Research and Devt., Yale Univ. and Camp Murphy, Fla. 1943-45; Prof. of Psychology, Northwestern Univ. 1946-51; Prof. of Psychology, Physiology and Psychiatry, Univ. of Calif., Los Angeles 1951-77, Prof. Emer. 1977, mem. Brain Research Inst., Univ. of Calif., Los Angeles 1960-, Chair. Dept. of Psychology 1959-62; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Soc. of Experimental Psychologists; Hon. mem. of Great Distinction, Western Electroencephalography Soc.; William James Lecturer, Harvard 1958; Guggenheim Fellow 1959; Hon. D.Sc. (Brown Univ.) 1958, (Wittenberg Univ.) 1959, (Trinity Coll.) 1965, (Loyola Univ.) 1969; Ph.D. h.c. (Johannes Gutenberg Univ., Mainz) 1977; Presidential Certificate of Merit for Second World War Research Work; Distinguished Scientific Contribution Award, American Psychological Assn. *Publications:* 220 publs., including scientific works in journals and 20 chapters in books; subjects: emotion, electro-encephalography, neurophysiology, perception, attention, brain function, developmental neurology, autonomic function, sleep and wakefulness conditioning and learning, etc. *Leisure interests:* music, photography, gardening, golf, travel. *Address:* Department of Psychology, University of California, Los Angeles, Calif. 90024 (Office); 471 23rd Street, Santa Monica, Calif. 90402, U.S.A. (Home). *Telephone:* 213-825-2517 (Office); 213-394-8306 (Home).

LINDSTROM, Ulla; Swedish politician; b. 15 Sept. 1909; ed. Univ. of Stockholm; teacher 1933; Ed. teachers' weekly publ. 1934-46; Ed. weekly publ. on housing 1934-44; elected Stockholm Municipal Council 1942; elected Senate 1946-70; Chair. Govt. Cttees. on the Furniture Industry, the Shoe Industry, and on the Distribution of Consumer Goods 1946, 1948, 1955; Expert, Trade Dept. 1946-54; Minister without Portfolio 1954-66; mem. Swedish Del. to UN 1947-66; Chair. Swedish Save the Children Fed. 1970-78; Labour Party. *Address:* Fleminggatan 56, Stockholm, Sweden.

LINDT, Auguste Rudolph, LL.D.; Swiss diplomatist (retd.); b. 5 Aug. 1905, Berne; ed. Univs. of Geneva and Berne; special [illegible] corresp. in Manchuria, Liberia, Palestine, Jordan, the Persian Gulf, Tunisia, Rumania and Finland 1932-40; served in Swiss Army 1940-45; special del. of the Int. Red Cross, Berlin 1945; Press Attaché and Counsellor Swiss Legation, London; Perm. Observer from Switzerland to the UN 1953-56; fmr. Chair. UNICEF; Pres. UN Opium Conf. 1953; UN High Commr. for Refugees 1956-60; Swiss Amb. to U.S.A. 1960-63; Del. Swiss Fed. Council for Technical Co-operation 1963-66; Swiss Amb. to U.S.S.R. 1966-69, to India and Nepal 1969-70; Int. Red Cross Commr. for Nigeria-Biafra relief operation 1968-69; Pres. Int. Union for Child Welfare 1971-77; Adviser to Pres. of Rwanda 1973-75; Hon. Dr. (Geneva). *Leisure interests:* gardening, mountaineering. *Address:* c/o Union de Banques Suisses, Berne, Switzerland. *Telephone:* Berne 32-02-85.

LINDTBERG, Leopold; Swiss professor, theatre producer and film director; b. 1 June 1902, Vienna, Austria; m. Valeska Hirsch; two d.; ed. Realgymnasium Wien, and Vienna Univ.; actor, Berlin, Vienna, Düsseldorf 1924-, later producer Berliner Staatstheater, Piscator-Buehne; Artistic Dir. Zürich Schauspielhaus 1933-, Dir. 1965-68; Lecturer, Univ. of Zürich; [illegible] than 200 theatrical productions; stage producer Habimah Theatre, Tel Aviv 1934, 1935; also film director 1938-; theatrical productions at Vienna Burgtheater, Hamburg Schauspielhaus, Munich Kammerspiele, Israel theatres, Salzburg Festival; opera productions Staatsoper, Vienna and Hamburg, Municipal Opera, Frankfurt and Zürich; hon. mem. Vienna Burgtheater, Covent Garden Opera; mem. Akad. der Künste, Berlin; numerous awards. *Principal productions:* a cycle of Shakespeare's history plays, Faust, Salzburg Festival 1960-65; first performances at Zürich of Faulkner, Wilder, Sartre, Brecht, Zuckmayer, Frisch, Dürrenmatt; films: Marie Louise 1943, The

Last Chance 1945, Four in a Jeep 1950, The Village 1953, An Outpost of Civilisation 1958; TV film serials Kommissar and Derrick. *Publications:* Shakespeare's History Plays 1962, Reden und Aufsätze 1972, Regiearbeit L.L. 1962, L.L. et le film suisse 1976. *Leisure interest:* chess. *Address:* Schuerbungert 36, Zürich, Switzerland. *Telephone:* 287081.

LINDWALL, Raymond Russell, M.B.E.; Australian cricketer and florist; b. 3 Oct. 1921, Mascot, Sydney, N.S.W.; s. of Arthur and Catherine Lindwall; m. Margaret Rose Robinson 1951; [illegible] s. one d.; fast right-arm bowler; played for Australia in 61 Test Matches 1946-60, took 228 wickets (114 against England), scored 1,502 runs; now proprietor of florist's business. *Leisure interests:* golf, swimming. *Address:* 3 Wentworth Court, Endeavour Street, Mt. Ommaney, Brisbane 4074, Queensland, Australia.

LINEN, James Alexander, III; American magazine executive; b. 20 June 1912, Waverly, Pa.; s. of Genevieve Tuthill Linen and James Alexander Linen, Jr.; m. Sara Scranton 1934; four s. two d.; ed. The Hotchkiss School and Williams Coll.; joined Time magazine 1934, worked New York and Detroit 1934-38; on Life magazine, New York 1938-40, Advertising Man. Life 1940-42; Office of War Information 1942-45; Publisher Time 1945-60, Pres. Time Inc. 1960-69, Chair. Exec. Cttee. Time Inc. 1969-74, Dir. 1974-; official of numerous civic, welfare and educational orgs.; Hon. L.H.D. (Long Island, Coll. of New Rochelle and Pace Coll.), Hon. LL.D. (Adelphi Univ.) 1966; Knight Commdr. and Knight Grand Cross of Thailand, Decoration of the Crown 3rd Order, Iran 1971, Nararya Meritorious Decoration of the Repub. of Indonesia 1974, Grand Cordon of the Order of the Star of Jordan 1975. *Address:* Time and Life Building, Rockefeller Center, New York, N.Y. 10020 (Office); 200 John Street, Greenwich, Conn. 06830, U.S.A. (Home). *Telephone:* (212) 556-3497.

LING, James J.; American business executive; b. 1922, Hugo, Okla.; ed. St. John's College, Shreveport; Pres. Ling Electrics 1946-58; Chair. Ling Electronics 1958-60; Pres. Chair. Exec. Cttee. Ling Temco Electronics 1960-61; Chair. Exec. Cttee. Ling-Temco-Vought Inc. 1961-63, Chair. of Board and Chief Exec. Officer 1963-70, Vice-Chair. of Board 1970-; Dir. First Nat. Bank in Dallas 1968, Southwest Research Inst., mem. Hudson Inst.; Regent of Texas Technological Univ.; Horatio Alger Award 1962. *Address:* 4835 LBJ Freeway, Dallas, Tex. 75234 (Office); 5432 Bent Tree Drive, Dallas, Tex. 75248, U.S.A. (Home).

LINK, Arthur A.; American politician; b. 24 May 1914, Alexander, N.D.; s. of John Link and Anna Mencl; m. Grace Johnson 1939; five s. one d.; ed. N.D. Agricultural Coll.; mem. Randolph Township Bd. for 28 years and McKenzie Co. Welfare Bd. for 21 years; served on local school bd. for 18 years and was mem. of co. and state Farm Security Admin. Cttee.; State Rep., N.D. Legislature for 24 years; Speaker 1965; served as Minority Floor Leader for seven terms, and on legislative cttees. on Educ., Finance and Taxation, Business and Industry, and Labour Relations; Chair. N.D. State Advisory Council for Vocational Educ. 1969-71; Chair. Second Interim Cttee. on Legislative Procedure and Arrangements and of the Sub-cttee. on Educ. of the Legislative Research Cttee.; U.S. House of Reps., mem. for Second (West) District of N.D. 1970, mem. Agricultural Cttee. and the Livestock and Grains, Domestic Marketing and Consumer Relations sub-cttees.; mem. of the House District of Columbia Cttee., serving on the Judiciary and the Business, Commerce and Fiscal Affairs sub-cttees.; co-sponsor of the Melcher Farm Bill; Gov. of North Dakota 1972-; Chair. Midwestern Govs.' Conf. 1978; mem. Exec. Cttee, Nat. Govs.' Assn. 1978; Chair. Agric. Cttee., Nat. Govs.' Assn. 1979; Chair. Resolutions Cttee., Farmers' Union Grain Terminal Assn. annual meeting for three years; bd. mem. Williston Univ. Center Foundation; fmr. bd. mem. McKenzie Co. Museum and Lewis and Clark Trail Museum; past Pres. Alexander Lions Club and Alexander Parent-Teacher Assn.; fmr. council pres. and Sunday School Supt. Alexander Trinity Lutheran Church. *Leisure interests:* camping, fishing, horseriding, reading. *Address:* Governor's Office, State Capitol Buildings, Bismarck, N.D. 58501; Governor's Residence, Bismarck, N.D. 58501, U.S.A. *Telephone:* 224-2200 (Office); 224-2190 (Residence).

LINK, Karl Paul, M.S., PH.D.; American professor of biochemistry; b. 31 Jan. 1901, La Porte, Ind.; s. of Rev. George Link and Fredericka Mohr Link; m. Elisabeth Feldman 1930; three s.; ed. La Porte, Ind., High School, Univ. of Wisconsin, Univ. of St. Andrews, Scotland, Univ. of Graz, Austria and Univ. of Zürich, Switzerland; Asst. Prof. of Biochemistry, Univ. of Wis. 1927-31, Prof. 1931-71, Emer. 1971-; Collaborator, U.S.D.A. Northern Regional Lab. 1937-45; Consultant to Clinton Corn Products Co. 1933-58, to Pabst Brewery, Milwaukee 1944-69; mem. Nat. Acad. of Sciences 1946-; Hon. [illegible] Harvey Soc.; Cameron prize, Univ. of Edinburgh 1952, Albert Lasker award for Medical Research 1955, John Scott award 1959, Albert Lasker award of American Heart Assn. 1960, Nat. Acad. of Sciences Kovalenko Medal 1967. *Publications:* many papers on chemistry of sugars, disease resistance in plants and blood coagulation. Harvey Soc. Lecture. The Anticoagulant from Spoiled Sweet Clover 1944, The Discovery of Dicumarol and its Sequels 1959. *Leisure interests:* gardening, loafing. *Address:* Department of Biochemistry, University of Wisconsin, Madison, Wis. 53706; 1111 Willow Lane, Madison, Wis. 53705, U.S.A. *Telephone:* 608-233-4525.

LINNER, Carl Sture, M.A., PH.D.; Swedish international civil servant; b. 15 June 1917, Stockholm; s. of Carl W. Linner and Hanna Hellstedt; m. Clio Tambakopoulos 1944; two s.; ed. Stockholm and Uppsala Univs.; Assoc. Prof. of Greek, Uppsala Univ. 1943; Del. to Int. Red Cross, Greece 1943-45; Dir. A.B. Electrolux, Stockholm 1945-50; Dir. Swedish Employers' Confederation 1950-51; Exec. Vice-Pres. A.B. Bahco, Stockholm 1951-57; Pres. Swedish Lamco Syndicate 1957; Exec. Vice-Pres. and Gen. Man. Liberian-American-Swedish Minerals Co., Monrovia 1958-60; Chief UN Civilian Operations, later UN Mission, in the Congo 1960-61; Special Rep. of UN Sec.-Gen. in Brussels and London 1962; UN Rep. in Greece, Turkey, Israel and Cyprus 1962-65, in London 1965-68, in Tunis 1968-71, UN Devt. Programme, New York 1971-73; Resident Rep. UN Devt. Programme in Egypt 1973-77; Sr. Consultant, FAO 1977-; mem. Royal Acad. of Arts and Sciences, Uppsala; Star of Africa, Order of Phoenix, Prince Carl Medal. *Publications:* Syntaktische und Lexikalische Studien zur Historia Lausiaca des Palladios 1943, Giorgos Seferis 1963, Roms Konungahävder 1965, Fredrika Bremer i Grekland 1965, W. H. Humphreys' First Journal of the Greek War of Independence 1966, Thucydides 1977. *Leisure interest:* poetry. *Address:* 3 Euzonon, 140 Athens, Greece. *Telephone:* 721832.

LINNIK, Vladimir Pavlovich; Soviet physicist; b. 6 July 1889, Kharkov; ed. Kiev Univ.; Prof. Leningrad Univ. 1926-41, Prof. State Optical Inst. 1926-; mem. U.S.S.R. Acad. of Sciences 1939-; State Prizes 1946, 1950; Order of Lenin (four times) and other decorations. *Publications:* Instrument for Interferential Investigation of Reflecting Objects under the Microscope, Instrument for Interferential Investigation of Surface Microprofile, papers on constructing optical instruments. *Address:* State Optical Institute, Leningrad, U.S.S.R.

LINOWITZ, Sol Myron, LL.B.; American lawyer and diplomatist; b. 7 Dec. 1913, Trenton, N.J.; m. Evelyn Zimmerman 1939; four d.; ed. Hamilton Coll., and Cornell Univ. Law School; Asst. Gen. Counsel, Office of Price Admin., Washington 1942-44; Officer, Office of Gen. Counsel, Navy Dept. 1944-46; fmr. Partner, Harris, Beach, Wilcox, Dale & Linowitz; Gen. Counsel, Chair. of Bd. and Chair. of Exec. Cttee. Xerox Corpn. 1958-66; Chair. Bd. and Chief Exec. Officer Xerox Int. 1966; Chair. Nat. Urban Coalition 70-; Pres. Fed. City Council 1974-; mem. Council on Foreign Relations, American Jewish Cttee.; U.S.A. Amb. to OAS and U.S. Rep. on the Inter-American Cttee. of the Alliance for Progress 1966-69; Sr. Partner Coudert Brothers (Int. Law firm) 1969-; co-negotiator, Panama Canal Treaties 1977; Chair. Presidential Cttee on World Hunger 1978-; Head of Comm. for U.S.-Latin American Relations; Trustee, John F. Kennedy Center for Performing Acts, Salk Inst. for Biological Studies; Fellow, American Acad. of Arts and Sciences; Trustee, Cornell Univ., Hamilton Coll., Johns Hopkins Univ., American Red Cross, American Assembly, Inst. of Int. Educ., Inst. of Educ. and World Affairs; hon. degrees (LL.D. and L.H.D.) from more than 20 colls. and univs. *Publication:* This Troubled Urban World. *Leisure interest:* violin. *Address:* 2325 Wyoming Ave., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 483-9086.

LINTHORST HOMAN, Johannes, LL.D.; Netherlands official; b. 17 Feb. 1903, Assen; s. of Jan Tijmen Linthorst Homan and Jeannette Madeleine Staal; m. 1st Jonkvrouwe Elisabeth Storm van 's Gravesande 1928 (died 1951), one s. three d.; m. 2nd Maria Vittoria Senni 1952; ed. Leiden Univ.; Mayor of Vledder 1932; Queen's Commr. Province of Groningen 1937-41; Pres. Nat. Office for Town and Country Planning 1947; Dir. European Integration, Ministry of Econ. Affairs 1952; Head Netherlands del. Brussels Conf. 1955-57; Pres. Netherlands Olympic Cttee. 1951-59; Amb., Head Netherlands Mission to the EEC and European Community for Atomic Energy 1958; mem. High Authority, ECSC 1962-67; Chief Rep. of European Community in U.K. 1968-71; Nederlandse Leeuw, Grande Croix de l'Ordre de Léopold II (Belgium), Grande Croix de l'Ordre Grand-Ducal de la Couronne de Chêne (Luxembourg), Grande Croix de l'Ordre royal du Phénix (Greece) and other orders. *Publications:* The Birth of Local Community in the Province of Drenthe 1934, History of Drenthe 1946, European

Agricultural Policy 1950, European Integration 1955, Memoirs 1974. *Leisure interests:* history, antiques, sport. *Address:* 56 Via Capo le Case, 00187 Rome, Italy. *Telephone:* 6785677.

LINTOTT, Sir Henry (John Bevis), K.C.M.G.; British diplomatist; b. 23 Sept. 1908; ed. Edinburgh Acad., Edinburgh Univ., and King's Coll., Cambridge; Customs and Excise Dept. 1932-35; Bd. of Trade 1935-48; Ministry of Econ. Warfare 1939-40; Office of Minister of State, Cairo 1941; Deputy Sec.-Gen. OEEC 1948-56; Deputy Under-Sec. of State, Commonwealth Relations Office 1956-63; High Commr. in Canada 1963-68; Dir. The Metal Box Co. 1968-73, Glaxo Holdings Ltd. 1968-. *Address:* 12 Willow Walk, Cambridge, CB2 1LA, England.

LIONAES, Aase; Norwegian politican; b. 10 April 1907, Oslo; d. of Erling and Anna Lionaes; m. Kurt Jonas; one d.; ed. Univ. of Oslo and London School of Economics; mem. Storting (Parl.) 1953-; Vice-Pres. of the Lagting (Upper House) 1965-69, of the Odelsting (Lower House) 1969-77; mem. Govt. del. to UN 1946-65; mem. Nobel Peace Prize Cttee. 1948-, Pres. 1968-; Hon. LL.D. (Oxford Coll., Ohio); Labour. *Address:* The Storting, Oslo; Pans Vei nr. 8, Ulvøya, Oslo, Norway. *Telephone:* 282408.

LIOTARD-VOGT, Pierre Alberto; French business executive; b. 14 Dec. 1909, London, England; s. of Alfred and Enrica (Cerasoli) Liotard-Vogt; divorced; two s.; ed. School of Higher Business Studies, Paris; with Nestlé Co., Switzerland 1933; with Société des Produits Alimentaires et Diététiques (Nestlé Products in France) 1936; factory man. 1938; Man. Head Office 1940, Gen. Man. 1942, Pres. 1965; Dir. Nestlé Alimentana S.A. 1967, Man. Dir. 1968-75, Chair. 1973-; mem. Int. Advisory Cttee. Chase Manhattan Bank, New York 1973-; Dir. L'Oréal, Paris 1974-, Swiss Credit Bank, Zürich 1975-, Labruyère and Eberlé, Mâcon 1976-, Crédit Commercial de France 1976-, L'Air Liquide, Paris 1978-; Officer, Légion d'honneur, Croix de guerre. *Address:* Nestlé Alimentana S.A., 1800 Vevey (Office); Novavilla, 1807 Blonay, Switzerland (Home). *Telephone:* 021-51-01-12 (Office); 021-53-10-86 (Home).

LIPIŃSKI, Edward; Polish economist; b. 18 Oct. 1888, Nowe Miasto; s. of Jan and Teodora (née Klimkiewicz) Lipiński; m. Janina Zybert 1916; one s. one d.; ed. Leipzig and Zürich Univs.; Lecturer, Cen. School of Econs. Warsaw 1923, Prof. 1929; Founder Dir. Inst. for Study of Markets and Prices, Warsaw 1927-39; Prof. Łódź Univ. 1945; Chair. Warsaw Inst. of Econs. 1945-48; Prof. Warsaw Univ. 1950-58, Prof. Emer. 1959-; Pres. Bank Gospodarstwa Krajowego (Bank of Nat. Economy) 1946-48; Deputy Chair. Econ. Council 1957-62, 1970-; mem. Polish Acad. of Sciences 1957- and several foreign scientific socs.; Hon. Pres. Polish Econ. Soc. 1970; Hon. Chair. Cttee. of Econ. Sciences, Polish Acad. of Sciences 1972-; mem. Int. Inst. of Statistics, Asscn. Française de Science Economique, Int. Econometric Soc.; D. h.c. (Main School of Planning and Statistics); State Prize, First Class 1953, 1972, Officer and Commdr. with Star Cross of Order of Polonia Restituta 1951, 1956, Order of Banner of Labour 1st Class 1959, Oscar Lange Scientific Prize 1973, Meritorious Teacher of People's Poland 1974, Medal of Nat. Educ. 1974. *Publications:* Ruch robotniczy w Polsce (The Workers' Movement in Poland), Inspekcja Pracy (Work Inspection) 1916, Statystyka dotycząca robotników miejskich (Statistics Relating to Urban Workers) 1918, Poglądy ekonomiczne Mikołaja Kopernika (Copernicus as Economist) 1955, Historia myśli ekonomicznej (History of Economic Thought) 1956, Rewizje (Reassessments) 1957, Studia nad historią polskiej myśli ekonomicznej (Studies on the History of Polish Economic Thought) 1955, Teoria ekonomii a rzeczywistość (Economics and Economic Reality) 1961, Histoire de la pensée économique en Pologne 1961, Historia powszechna myśli ekonomicznej do 1870 r. (General History of Economic Thought until 1870) 1968, Karol Marks i Zagadnienia Współczesności (Karl Marx and the Problems of our Times) 1969. *Leisure interests:* music, art. *Address:* Ul. Rakowiecka 6m. 26, bl. C, 02-521 Warsaw. Poland. *Telephone:* 451016.

LIPKOWSKI, Jean-Noël De, L. EN D.; French politician and diplomatist; b. 25 Dec. 1920, Paris; ed. Ecole libre des sciences politiques; entered diplomatic service 1945; attached to Cen. Admin. for Asia-Oceania; Third Sec. for Far East, Nanking; Attaché to French Embassy, Nanking 1947-49, to Cen. Admin. 1950-52; Sec. of Foreign Affairs 1951; Deputy Consul, Madrid; Deputy Dir., Cabinet of the Resident-Gen. of France in Tunis and later in Rabat; Adviser for Foreign Affairs 1956; Deputy to Nat. Assembly for Seine-et-Oise 1956-58; Adviser to French Embassy, Beirut 1958; Political Adviser, Cie. française de l'Afrique occidentale; Deputy for Charente-Maritime 1962-68, 1973; Mayor of Royan 1965, 1971-; Sec. of State, Ministry of Foreign Affairs 1968-72; Sec. of State for Foreign Affairs with rank of Minister 1973-74; Minister of Co-operation Jan.-Aug. 1976. *Address:* 191 boulevard Saint-Germain, 75007 Paris, France.

LIPMANN, Fritz (Albert), M.D., PH.D., SC.D.; American biochemist; b. 12 June 1899, Koenigsberg, Germany; m. Freda Hall 1931; one s.; ed. Univs. of Koenigsberg and Berlin; Research Asst. Kaiser Wilhelm Inst., Berlin and Heidelberg 1927-31; Research Fellow Rockefeller Inst. for Medical Research, New York 1931-32; research Assoc. Biological Inst. of Carlsberg Foundation, Copenhagen 1932-39; research Assoc. Dept. of Biological Chem., Cornell Univ. Medical School, New York 1939-41; Research Fellow in Surgery, Harvard Medical School, Boston 1941-43 and Assoc. in Biochemistry 1943-49; Prof. of Biological Chemistry, Harvard Medical School, Massachusetts Gen. Hosp., Boston 1949-57; Prof. of Rockefeller Univ., New York 1957-69; has done outstanding work on energy metabolism, the metabolic function of B vitamins, and has discovered coenzyme A; mem. Nat. Acad. of Sciences; Foreign mem. Royal Soc. (U.K.); Hon. Sc.D., Nobel Prize in Medicine and Physiology 1953; Nat. Medal of Science 1966. *Publication:* Wanderings of a Biochemist 1971. *Address:* 201 East 17th Street, New York, N.Y. 10003, U.S.A. (Home). *Telephone:* 212-360-1236 and 212-477-5777.

LIPSCOMB, William Nunn, PH.D.; American professor of chemistry; b. 9 Dec. 1919, Cleveland, Ohio; s. of Dr. William Lipscomb and Mrs. Edna Porter Lipscomb; m. Mary Adele Sargent 1944; one s. one d.; ed. Univ. of Kentucky and Calif. Inst. of Technology; Asst. Prof. of Physical Chem., Univ. of Minn. 1946-50, Assoc. Prof. 1950-54, Acting Chief, Physical Chem. Div. 1952-54, Prof. and Chief, Physical Chem. Div. 1954-59; Prof. of Chem., Harvard Univ. 1959-, Chair. Dept. of Chem. 1962-65, Abbott and James Lawrence Prof. of Chem. 1971-; Overseas Fellow of Churchill Coll., Cambridge 1966; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Foreign mem. Royal Netherlands Acad. of Arts and Sciences 1976-; Pres. American Crystallographic Soc. 1955; Dr. h.c. Munich 1976, Hon. M.A. and Hon. D.Sc.; Harrison Howe Award in Chem. 1958, Award for Distinguished Service in the Advancement of Inorganic Chem. 1968, Ledlie Prize, Harvard Univ. 1971, Peter Debye Award in Physical Chem., A.C.S. 1973, Nobel Prize in Chem. 1976, Distinguished Alumni Award, Calif. Inst. of Technology 1977. *Publications:* Boron Hydrides 1963, Nuclear Magnetic Resonance Studies of Boron and Related Compounds (with G. R. Eaton) 1969; and papers on structure and function of enzymes and natural products in inorganic chem. and theoretical chem. *Leisure interests:* chamber music, tennis. *Address:* Department of Chemistry, Harvard University, Cambridge, Mass. 02138 (Office); 26 Woodfall Road, Belmont, Mass. 02178. U.S.A. (Home). *Telephone:* 617-495-4098 (Office); 617-484-8499 (Home).

LIPTON, Seymour; American sculptor; b. 6 Nov. 1903, New York; ed. Columbia Univ.; teacher, New School for Social Research, New York 1939-58, Cooper Union Art School, New York 1943-45, New Jersey State Teachers' Coll., Newark 1944-45; One-man shows New York 1938-58, Washington 1951, etc.; Visiting critic, Yale Art School 1957-59; rep. Venice Biennale 1958; mem. Nat. Inst. of Arts and Letters, Nat. Soc. Literature and Arts; Guggenheim Award 1960, Ford Foundation Award 1961 and others; represented in over 160 museums throughout the world. *Address:* 302 West 98th Street, New York, N.Y. 10025, U.S.A.

LISETTE, Gabriel; French international official; b. 2 April 1919, Panama; s. of Gabriel and Hortense Lisette; m. Yeyon Darrotcheteche 1945; three s. one d.; ed. Lycée Carnot (Point-à-Pitre, Guadeloupe), Lycée Henri IV (Paris) and Ecole Nat. de la France d'Outre-mer; Admin. France d'Outre-mer 1944-46; Deputy from Chad to Nat. Assembly, Paris 1946-51, 1956-59; Territorial Counsellor, Chad 1952-59; Pres. Chad Govt. Council 1957-58; Deputy Chad Legislative Assembly 1959-60; Pres. Council of Ministers, Repub. of Chad 1958-59, Vice-Pres. 1959-60; Minister-Counsellor to French Govt. 1959-60; Admin.-in-Chief of Overseas Affairs (France); Mayor of Fort-Lamy 1956-60; French Govt. Perm. Rep. to UN Econ. Comm. for Latin America (ECLA); Pres. Mutualité d'Outre-mer et de l'Extérieur 1963; Pres. Parti Progressiste Tchadien; Vice-Pres. Fondation Félix Houphouët-Boigny; mem. Conseil de Direction du Comité français pour la campagne mondiale contre la faim; fmr. Vice-Pres. Rassemblement Démocratique Africain (RDA); First Citizen of Honour of Chad, Officer Légion d'honneur, Commdr. Ordre nat. de la République de Côte d'Ivoire, Grand Officer Ordre nat. de la République du Niger, Commdr. Etoile de la Grande Couronne, Chevalier Ordre du Mérite Centrafricain. *Leisure interests:* reading, the sea. *Address:* 3 boulevard des Courcelles, 75008 Paris, France.

LISSÁK, Kálmán; Hungarian university professor; b. 13 Jan. 1908, Budapest; s. of Kálmán Lissák and Aranka Kozák; m. 1st Janina Malachowska 1937, [illegible] s. one d.; m. 2nd Zsuzsa Frey 1975; ed. Univ. of Budapest; Asst., Physiological Inst., Debrecen Univ. 1933-37, Reader 1937-41, Prof. 1941-43; Prof. of Physiology, Medical Univ. of Pécs; Dean of Medical Faculty, Univ. of Pécs 1946-47,

1950-51, 1956-67, Rector 1947-48, 1948-49; mem. Hungarian Acad. of Sciences, Deutsche Akad. der Naturforscher Leopoldina 1967; Hon. mem. Purkynje Medical Soc. of Czechoslovakia, I. P. Pavlov All Union Physiological Soc. of U.S.S.R. Acad. Sciences, North American Pavlovian Soc.; Kossuth Prize 1954. *Publications:* Neurophysiology and Neuro-Endocrine Regulation of Behaviour; numerous articles in Hungarian, English, American, German and Russian medical journals. *Leisure interests:* horology and collecting frog-figures. *Address:* Physiological Institute, 7624 Pécs, Sziget-ut 12, Hungary. *Telephone:* 11-122/278.

LISSOUBA, Pascal, D. ÈS SC.; Congolese politician; b. 15 Nov. 1931, Tsinguidi, Congo (Brazzaville); s. of Albert Lissouba and Marie Bouanga; m. 2nd Jocelyne Pierrot 1967; one s. six d.; ed. secondary education in Nice, France, and Ecole Supérieure d'Agriculture, Tunis; fmr. agricultural specialist; Prime Minister of Congo (Brazzaville) 1963-66, concurrently Minister of Trade and Industry and Agric.; Prof. of Genetics, Brazzaville 1966-71, concurrently Minister of Planning 1968, Minister of Agric., Waterways and Forests 1969; Dir. Ecole Supérieure des Sciences, Brazzaville 1971; imprisoned for life for organization of assassination of Pres. Ngouabi March 1977. *Leisure interests:* geology, music. *Address:* Ouesso District, Congo People's Republic.

LIST, Robert Frank; American politician; b. 1 Sept. 1936, Visalia, Calif.; s. of Franklin Way and Alice A. (née Dove) List; m. Kathryn Sue Geary 1962; one s. two d.; ed. Hastings School of Law, Univ. of Calif.; admitted to Nevada Bar 1962; District Attorney, Carson City 1966-70; Attorney Gen. 1970-78; Gov. of Nevada 1979-; mem. Nev. Crime Comm. 1968-; Nat. Gambling Comm. 1972-, U.S.A.F. Acad. Bd. of Visitors; fmr. mem. Exec. Cttee. of Nat. Assoc. of Attorneys Gen. *Leisure interests:* flying, skiing, fishing, hunting, tennis. *Address:* Office of the Governor, Capitol Complex, Carson City, Nevada 89710, U.S.A.

LISTER, Sir (Charles) Percy, Kt., D.L.; British company director; b. 15 July 1897, Dursley, Glos.; s. of Charles A. Lister; m. 1953; one s.; ed. Mill Hill School, and Royal Military Coll., Sandhurst; war service with 18th Royal (Queen Mary's Own) Hussars in France, Belgium and Germany 1915-19; fmr. Chair. and Man. Dir. R. A. Lister Co. Ltd.; Dir. Armstrong Whitworth (Engineers) Ltd. 1965-69, Hawker Siddeley Group Ltd.; past mem. Capital Issues Cttee., Western Hemisphere Exports Council, Dollar Exports Council, Iron and Steel Bd. 1953-57. *Leisure interests:* sport, travel. *Address:* Stinchcombe Hill House, Dursley, Gloucestershire, England. *Telephone:* Dursley 2030.

LISTOWEL, the 5th Earl of cr. 1822; **William Francis Hare,** P.C., G.C.M.G., PH.D.; British philosopher and politican; b. 28 Sept. 1906; ed. Eton and Balliol Coll., Oxford, and London Univ.; Labour mem. London County Council for East Lewisham; Chief Whip Labour Party and Deputy Leader House of Lords, Parl. Under-Sec. of State India Office 1944-45; Postmaster-Gen. 1945-47; Sec. of State for India and Burma April-Aug. 1947; Sec. of State for Burma, 1947-48; Minister of State for the Colonies 1948-50; Joint Parl. Sec., Ministry of Agric. and Fisheries 1950-51; Gov.-Gen. of Ghana 1957-60; Chair. of Cttees., House of Lords 1965-76; Pres. Voluntary Euthanasia Soc., Council for Aid to African Students; Joint Pres. Anti-Slavery Soc. for Protection of Human Rights. *Publications:* The Values of Life 1931, A Critical History of Modern Aesthetics (2nd edn. as Modern Aesthetics: an Historical Introduction 1967). *Address:* 7 Constable Close, Wildwood Road, London, N.W.11, England.

LISULO, Daniel Muchiwa, LL.B.; Zambian lawyer and politican; b. 6 Dec. 1930, Mongu; m. Mary Mambo 1968 (died 1976); three s. two d.; ed. Loyola Coll. of Madras Univ., Law Faculty of Delhi Univ., India; active in independence struggle 1953-63; with Anglo-American Corpn. (Cen. Africa) 1963-64; Asst. Solicitor, Ellis & Co., Lusaka 1964-67; Advocate, Lisulo & Co. 1968-; Dir. Bank of Zambia 1964-; mem. and Chair. Local Govt. Service Comm. 1964-72; mem. Nat. Comm. on One Party System in Zambia; Dir. various cos.; mem. Cen. Cttee. United Nat. Independence Party (UNIP) 1972-; Minister of Legal Affairs and Attorney-Gen. 1977-78, Prime Minister of Zambia 1978-; mem. Nat. Assembly; also Legal Counsel of UNIP. *Leisure interests:* swimming, hunting, boating, soccer. *Address:* Office of the Prime Minister, Lusaka, Zambia. *Telephone:* 51847, 53390 (Ministry); 75651, 75755 (Lisulo & Co.); 52097 (Residence).

LITTLER, Sir Emile, Kt.; British theatrical impresario, producer, author and company director; b. 9 Sept. 1903; two d.; ed. Stratford on Avon; served apprenticeship working on theatre stages; Asst. Man. Theatre in Southend 1922; subsequently worked as Asst. Stage Man., Birmingham Repertory Theatre; in U.S.A. 1927-31; became Man. and Licensee Birmingham Repertory Theatre for Sir Barry Jackson 1931; began personally in management 1933; theatrical productions include Victoria Regina, 1066 and All That, The Maid of the Mountains, The Night and the Music, Claudia, The Quaker Girl, Lilac Time, The Barretts of Wimpole Street, Song of Norway, Annie Get Your Gun, Blue for a Boy, Zip Goes a Million, Love from Judy, Book of the Month, The Lovebirds, The Happiest Millionaire, Signpost to Murder, The Right Hon. Gentleman; for many years was dir. of various theatres including Drury Lane, Coliseum and the Palladium; Chair. and Man. Dir. Palace Theatre, London, London Entertainments Ltd.; Dir. Theatres Mutual Insurance Co. Ltd.; was Gov. of Royal Shakespeare Theatre, Stratford on Avon; Dir. Eagle Star Insurance. *Publications:* (joint author) Cabbages and Kings, Too Young to Marry, Love Isn't Everything; produced 15 Christmas pantomimes in London and over 200 in the provinces. *Address:* Palace Theatre, Shaftesbury Avenue, London W1V 8AY, England. *Telephone:* 01-734 9691.

LITTLEWOOD, Joan (Maud); British theatre director and artist; Dir. Theatre of Action, street theatre co., Manchester 1931-37; Founder, Theatre Union, Manchester, introducing the Individual Work System 1937-39; freelance writer, banned from BBC and Entertainments Nat. Service Assn. for political opinions 1939-45; founded Theatre Workshop with Gerry Raffles 1945, Artistic Dir. 1945-75, tours in U.K. and Europe with original works 1945-53, Theatre Royal, Stratford, London, E.15 1953-75; invited to Theatre of the Nations, Paris yearly from 1955; transfers to West End, London and Broadway, New York 1960-61; Centre Culturel, Hammamet, Tunisia 1965-67; Image India, Calcutta 1968; created children's entertainments outside Theatre Royal Stratford 1968-75; working in France 1975-; Seminar, Relais Culturel, Aix-en-Provence 1976; [illegible], French Acad. of Writers 1964-; Best Production of the Year (three times), Theatre of the Nations, Paris; Dr. h.c. (Open Univ.) 1977; Gold Medal for production of Lysistrata, Berlin, German Democratic Repub. 1958; Olympic Award, Taormina 1959. *Productions include:* Oh, What a Lovely War! (with Gerry Raffles) 1963; film Sparrers Can't Sing 1962. *Address:* 1 place Louis Revol, 38200 Vienne, France.

LITTMAN, Mark, Q.C.; British barrister-at-law and company director; b. 4 Sept. 1920, London; s. of Jack and Lilian Littman; m. Marguerite Lamkin 1965; no c.; ed. Owen's School, London School of Economics and Queens Coll., Oxford; Lieut. R.N.V.R. 1941-46; called to Bar, Middle Temple 1947; practising barrister 1947-67; Dir. Rio Tinto-Zinc Corpn. 1968-; Pres. Bar Assn. for Commerce, Finance and Industry; mem. Bar Council 1973-75, mem. of Senate of the Inns of Court and the Bar 1974-75; Deputy Chair. British Steel Corpn. Jan. 1970-; Dir. Commercial Union Assurance Co. Ltd., Granada Group Ltd. 1977, British Enkalon Ltd., Amerada Hess Corpn., Envirotech Corpn 1974-78; Bencher of the Middle Temple 1970; mem. Royal Comm. on Legal Services 1976. *Address:* 79 Chester Square, London, S.W.1, England. *Telephone:* 01-730 2973.

LITVAK KING, Jaime, M.A., PH.D.; Mexican archaeologist; b. 10 Dec. 1933, Mexico City; s. of Abraham Litvak and Eugenia King; m. 1st Elena Kaminski 1954 (divorced 1968), one d.; m. 2nd Carmen Aguilera 1972; ed. Univ. Nacional Autónoma de México; Asst. Dept. of Prehistory, Inst. Nacional de Antropología e Historia 1960-63, Researcher 1963-66; Lecturer Escuela Nacional de Antropología e Historia 1963-74; Head Sección de Maquinas Electronicas, Museo Nacional de Antropología 1966-68; Asst. Research Fellow, Anthropological Section, Univ. Nacional Autónoma de México 1968-72, Full Research Fellow 1972-74, Head of Section 1973; Dir. Inst. for Anthropological Research, Univ. Nacional Autónoma de México 1973-, Joint Chair. Archaeology, Escuela Nacional de Antropología 1966-67, Chair. 1969-71; Co-Ed. Antropología Matemática 1968-74; Research Ed. American Antiquity 1971-74; Advisory Ed. Mesoamerican Archaeology, Abstracts in Anthropology 1973-74; Sec. Mexican Anthropological Soc. 1971-; Fray Bernardino de Sahagun (Mexican Nat. Award for Anthropology) 1970. *Publications:* Cihuatlán y Tepecoacuilco 1971, El Valle de Xochicalco 1970, Xochicalco: Un Asentamiento Urbano Prehispanico 1974, etc. *Address:* Instituto de Investigaciones Antropológicas, Universidad Nacional Autónoma de México, Ciudad Universitaria, México 20, D.F., Mexico. *Telephone:* 548-36-67 and 550-52-15, Ext. 4308.

LITWINISZYN, Jerzy, ENG.K.D.; Polish scientist; b. 2 Aug. 1914, Płoki; ed. Acad. of Mining and Metallurgy, Cracow; scientist, Acad. of Mining and Metallurgy, Cracow 1945-, Doctor of Tech. Sciences 1947-50, Asst. Prof. 1950-54, Extraordinary Prof. 1954-58, Ordinary Prof. 1958-; Corresp. mem. Polish Acad. of Sciences 1956-66, mem. 1966-, Head of Dept. Mechanics of Strata 1959-, Scientific Sec., Cracow Branch 1972-75, mem. Acad. Presidium 1959-, Deputy Chair. Presidium 1977-, Vice-Pres. of Acad. 1977; Chair. Scientific Council of Chief Mining Inst.; mem. Acad. of Eng. of Mexican Inst.

of Culture 1976; State Prize 2nd Class 1953, 1st Class 1968, Officer's Cross of Order Polonia Restituta. *Publications:* over 170 works on hydromechanics, mechanics of rocks, loose mediums and strata. *Address:* Strata Mechanics Research Inst., Polish Acad. of Sciences, Ul. Reymonta 27, 30-059 Cracow; ul. Jaracza 5 m. 9, 31-143 Cracow, Poland (Home). *Telephone:* 728-84 (Office), 264-59 (Home).

LIU CHEN; Chinese government official. Commdr. Sinkiang PLA Mil. Region 1977-; Second Sec. Sinkiang CCP Cttee. 1978-; [redacted] Presidium CCP 11th Nat. Congress 1977-; mem. 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

LIU CHIEH; Chinese diplomatist; b. 16 April 1906; ed. Oxford and Columbia Univs.; Foreign Service 1931-; Chinese Del. to League of Nations 1932-39; Counsellor, Chinese Embassy, London 1933-40, Minister, Washington 1940-45; Vice-Minister for Foreign Affairs 1945-47; Amb. to Canada 1947-63; mem. Chinese Del. to UN 1946; Pres. UN Trusteeship Council 1948; mem. Int. Law Comm. 1961-66; Perm. Rep. of China to UN 1962-71; Amb. to Philippines 1972-75; Presidential Adviser 1975-; Chair. Research and Planning Comm., Ministry of Foreign Affairs 1975-. *Address:* c/o Ministry of Foreign Affairs, Taipei, Taiwan.

LIU CHIEN-HSUN; Chinese party official; b. 1907, Hopei; Second Sec. CCP Hupeh 1952-54, Sec. 1954-55; Political Commissar Hupeh Mil. Dist., People's Liberation Army 1952; Deputy Dir. Rural Dept., CCP 1956; First Sec. CCP Kwangsi 1957-61; Alt. mem. 8th Cen. Cttee. of CCP 1956; First Sec. CCP Honan 1961-66; Political Commissar Honan Mil. District, PLA 1964; Sec. Cen.-South Bureau, CCP 1965-66; Sec. CCP Peking 1966; Second Sec. N. China Bureau, CCP 1966; Vice-Chair. Peking Revolutionary Cttee. 1967; First Political Commissar Honan Mil. District, PLA 1967, Deputy Political Commissar Wuhan Mil. Region, PLA 1967, Political Commissar 1971-78; Chair. Honan Revolutionary Cttee. 1968; mem. 9th Cen. Cttee. of CCP 1969; First Sec. CCP Honan 1971-78; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

LIU CHUNG-KUEI; Chinese party official; Mil. Attaché at Embassy, Dem. Repub. of Viet-Nam 1961; Deputy Commdr., Kwangsi Mil. District, PLA 1965, Political Commissar 1976; Second Sec. Kwangsi Regional CCP Cttee., Vice-Chair. Kwangsi Region Revolutionary Cttee. *Address:* People's Republic of China.

LIU HSI-YAO; Chinese party official; Deputy Sec. CCP Hupeh 1953-54; Vice-Chair. State Technological Comm. 1957-59, State Scientific and Technological Comm. 1959-67; Alt. mem. 9th Cen. Cttee. of CCP 1969; Dir. Scientific and Educ. Group, State Council 1972; Alt. mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; Minister, Second Ministry of Machine Bldg. 1975-77, of Educ. 1977-79. *Address:* People's Republic of China.

LIU HSING-YUAN; Chinese party official; b. 1914, Hunan; Deputy Political Commissar, Canton Mil. Region, People's Liberation Army 1955; Second Political Commissar 1963; Lieut.-Gen. 1957; mem. Nat. Defence Council 1965; Chair. Kwangtung Revolutionary Cttee. 1969; mem. 9th Cen. Cttee. of CCP 1969; First Sec. CCP Kwangtung 1971; Chair. Szechuan Revolutionary Cttee. 1972; First Sec. CCP Szechuan 1972-75; First Political Commissar Chengtu Mil. Region, PLA 1973-76, Commdr. 1976-77; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

LIU KUANG-TAO; Chinese soldier; Div. Political Commissar in Fourth Field Army, PLA 1949; Political Commissar of Fortieth Army, PLA 1961, of Heilungkiang Mil. District, PLA 1969; Vice-Chair. Heilungkiang Revolutionary Cttee. 1970; Deputy Political Commissar, Shenyang Mil. Region, PLA 1970; Second Sec. of CCP Cttee., Heilungkiang 1971; First Political Commissar of Heilungkiang Mil. District, PLA 1971; Alt. mem. 10th Cen. Cttee., CCP 1973; First Sec. of CCP Cttee., Heilungkiang 1976-77; mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

LIU LAN-PO; Chinese politician; Minister of Power Feb. 1979-. *Address:* People's Republic of China.

LIU PO-CH'ENG; Chinese army officer; b. 1892, Kaihsien, Szechuan; ed. Chengtu Mil. School and Moscow Mil. Inst.; joined CCP 1926; Head Chief of Staff Nanchang Uprising 1927; Chief of Gen. Staff, Red Army 1932; on Long March 1934-35; Pres. Red Army Univ., Kansu 1936; Commdr. 129th Div., 8th Route Army 1937-40; mem. 7th Cen. Cttee. of CCP 1945; Commdr. 2nd Field Army 1949-54; Second Sec. S.W. Bureau, CCP 1950; Pres. Nanking Mil. Acad. 1951-58; Vice-Chair. Nat. Defence Council 1954-; Dir.-Gen. Training Dept., People's Liberation Army 1954-57; Marshall PLA 1955; mem. Politburo, 8th Cen. Cttee. of CCP 1956; Vice-Chair. Nat. People's Congress 1959-; mem. Politburo, 9th Cen. Cttee. of CCP 1969, Politburo 10th Cen. Cttee. 1973, Politburo, 11th Cen. Cttee. 1977; Vice-Chair. Standing Cttee. 5th Nat. People's Congress 1978–; Vice-Chair. CCP Cen. Cttee. Mil. Comm. 1978-. *Address:* People's Republic of China.

LIU SHIH-CHIEN; Chinese government official; Political Commissar, PLA Kunming Mil. Region 1978-. *Address:* People's Republic of China.

LIU TZU-HOU; Chinese party official; b. circa 1910, Hopei; joined CCP 1937; Deputy Gov. of Hupeh 1952-54, Gov. 1954-56; Second Sec. CCP Hupeh 1953-56; Dir. Sanmen Gorge Construction Bureau 1956-58; Gov. of Hopei 1958-68; Sec. CCP Hopei 1958-64; Alt. mem. 8th Cen. Cttee. of CCP 1956; Sec. N. China Bureau, CCP 1963-68; Second Sec. CCP Hopei Revolutionary Cttee. 1964-68; First Vice-Chair. Hopei Revolutionary Cttee. 1968, Chair. 1970; [redacted] 9th Cen. Cttee. of CCP 1969; First Sec. CCP Hopei 1971-; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; First Political Commissar Hopei Mil. Dist. *Address:* People's Republic of China.

LIU WEI; Chinese politician and party official; Dir. 8th Bureau, Ministry of Public Security 1952; Asst. to Minister of Geology 1955-57; Vice-Minister 2nd Ministry of Machine Building 1961-77, Minister 1977-79; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

LIU YEN-CHUAN; Chinese party official; Political Commissar, Shansi Mil. Dist., PLA. *Address:* People's Republic of China.

LIVANOV, Mikhail Nikolayevich; Soviet physiologist; b. 20 Oct. 1907, Kazan; ed. Kazan Univ.; Asst., Inst. of Horse Breeding 1931-33; Head of Lab., Inst. of Brain Research, U.S.S.R. Ministry of Public Health 1933-47; Head of Lab., Inst. of Intoxication, Pathology and Therapy, U.S.S.R. Acad. of Medical Sciences 1947-49; Head of Lab., Inst. of Biophysics, U.S.S.R. Acad. of Med. Sciences 1949-61; Head of Lab., Inst. of Higher Nervous Activity and Neurophysiology, U.S.S.R. Acad. of Sciences 1961-; Corresp. mem. U.S.S.R. Acad. of Sciences 1962-70, Academician 1970-; mem. CPSU 1940-; various decorations. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

LJUBIČIĆ, Gen. Nikola; Yugoslav soldier and politician; b. 1916, Karan nr. Titovo Uzice; ed. Valjevo Grammar School, Yugoslav Higher Military Coll., Operational Command School; Ministry of Agric.; joined CP 1941; fought with Nat. Liberation Army in Yugoslavia 1941-45; Brig. and Second in Command Nat. Defence Corps 1943; then Commdr. Frontier Forces and 1st Army District; Sec. of State for Defence 1967-; mem. Fed. Exec. Council, Presidium of League of Communists of Yugoslavia; decorations include Orders of the Nat. Hero and Partisan Star with Golden Wreath. *Address:* Kneza Miloša 33, Belgrade, Yugoslavia.

LLADÓ Y FERNÁNDEZ URRUTIA, José, D.SC.; Spanish politician and diplomatist; b. 1934, Madrid; ed. Faculty of Chem., Madrid Univ.; Prof. of Industrial Chem., Univ. Complutense de Madrid 1960-67; Chair. Comm. on Chemical Products, Fertilizers and Paper of Nat. Plan for Devt. 1966; Dir.-Gen. Div. of Chemical Industry and Construction, Ministry of Industry; Head Franco-Spanish Cttee. for Industrial Co-operation 1970-73; del. of Ministry of Industry in EEC negotiations 1970-73; Deputy Chair. Nat. Council for Research 1972-76; Exec. Vice-Pres. Nat. Foundation Juan de la Cierva for Technological Research 1972-76; Sub-Sec. Internal Commerce 1976, Minister of Commerce 1976, Minister of Transport and Communications 1977-78; Amb. to U.S.A. June 1978-; fmr. Pres. Nat. Assen. of Chemists; fmr. Pres. Técnicas Reunidas S.A.; Perm. Adviser to High Council for Scientific Research. *Address:* Embassy of Spain, 2700 15th Street, N.W., Washington, D.C. 20009, U.S.A. *Telephone:* 265-0190.

LLERAS CAMARGO, Alberto; Colombian journalist, politician and writer; b. 3 July 1906; Editorial staff of El Espectador and El Tiempo, Bogotá 1925-30; Sec.-Gen. of Partido Liberal and Ed. La Tarde 1930; Chair. of House of Reps. 1932; Sec. of Colombian Del. to Pan-American Conf., Montevideo 1934; Sec.-Gen. of exec. branch of Colombian Govt. 1934-35; Minister of Govt. 1935; Del. to Inter-American Conf. for Maintenance of Peace, Buenos Aires 1936; Minister of Educ. 1936; Minister of Govt. 1936-38; Ed. El Liberal 1938-43; elected Senator 1943; Amb. to U.S.A. and Minister of Govt. 1943; Minister of Foreign Affairs 1945; head of Colombian Del. to Conf. of Chapultepec, Mexico and UN Conf., San Francisco 1945; Pres. of Colombia 1945-46; Ed. Semana 1946-47; Sec.-Gen. of OAS 1947-54; Pres. Univ. de los Andes 1954-55; Pres. of Colombia 1958-62; produced study of Alliance for Progress 1963; Hon. Ph.D. (Univ. de los Andes) 1957, Hon. Degree (Johns Hopkins Univ.) 1960; Hon. LL.D. (Harvard); Human Rights Prize (Congreso Judío Latinoamericano) 1976, Orden Centenario 1976, Theodore Brent Prize. *Address:* Bogotá, Colombia.

LLERAS RESTREPO, Carlos; Colombian lawyer and politician; b. 12 April 1908, Bogotá; s. of Federico Lleras Acosta; m. Cecilia de la Fuente 1933; two s. two d.; ed. Univ. Nacional de Colombia; Lawyer 1930-; Deputy 1931; Minister of Treasury 1938-43; Prof. of Public Finance, Law Faculty, Univ. Nacional 1939; Pres. of Partido Liberal 1941, 1948-50, mem. Triumvirate 1950, Leader 1961-; Senator 1942-52, 1958-59, 1962-; Pres. Colombian Del. to Bretton Woods Conf. 1944; mem. various Colombian Dels. to UN Comms.; Vice-Pres. Econ. and Social Council, UN 1946; in Europe 1959-60; Pres. Colombian Del. to Geneva Conf. 1964; Pres. of Colombia 1966-70; Chair. FAO Special Cttee. on Agrarian Reform 1970-71; Leader Partido Liberal 1972-73; Consultant Inter-American Bank of Devt. (IADB) 1973-74; Ed. and Dir. Nueva Frontera 1974-. *Publications:* La Estadística Nacional 1938, De la República a la Dictadura 1955, Crónicas y Coloquios del Bachiller Cleofás Pérez 1962, 1964, Hacia la Restauración Democrática y el Cambio Social 1963, Comercio Internacional 1966, Messages of the President of the Republic to the National Congress 1967-70, Borradores para la Historia de la República Liberal 1975; five vols. of discourses on political, financial and administrative subjects 1966-70 and many articles. *Address:* Calle 70-A, No. 7-37, Bogotá, D.E., Colombia.

LLESHI, Maj.-Gen. Haxhi; Albanian politician; b. 1913; fought with resistance against Italian and German occupations 1939-45; mem. provisional Govt. 1944; Minister of the Interior 1944-46; Maj.-Gen. Albanian Army; Pres. Presidium of the People's Assembly (Head of State) 1953-; mem. Cen. Cttee. Albanian Workers' Party 1953-. *Address:* Kuvendi Popullore, Tirana, Albania.

LLEWELLYN, Sir Frederick John, K.C.M.G., PH.D., D.SC., LL.D., F.R.I.C., F.N.Z.I.C., F.R.S.A., F.R.S.N.Z.; British administrator; b. 29 April 1915, Dursley, Glos.; s. of late Mr. and Mrs. R. G. Llewellyn; m. Joyce Barrett 1939; one s. one d.; ed. Dursley Grammar School, Univ. of Birmingham; Scientific Officer, Fuel Research Station, Greenwich 1938-39; Lecturer in Chem., Birkbeck Coll. 1939-45; Dir. Ministry of Supply Research Team 1941-46; I.C.I. Research Fellow, Birmingham Univ. 1946-47; Prof. of Chem., Auckland Univ. Coll. (N.Z.) 1947-55; Vice-Chancellor and Rector, Univ. of Canterbury (N.Z.) 1956-61; Chair. Univ. Grants Cttee. (N.Z.) 1961-66; Chair. New Zealand Broadcasting Corpn. 1962-65; Chair., Nat. Council of Adult Educ. 1961-66, N.Z. Commonwealth Scholarships and Fellowships Cttee. 1961-66; mem. N.Z. Council for Technical Educ. 1961-66, Council of Scientific and Industrial Research, N.Z. 1957-61, Council of Assen. of Commonwealth Univs. 1966-; Vice-Chancellor, Exeter Univ. 1966-72; Dir.-Gen. British Council Oct. 1972-; mem. Inter Univ. Council for Higher Educ. Overseas 1966-75, BBC S.W. Regional Advisory Cttee. 1967-70, Council Ahmadu Bello Univ., Nigeria 1968-72. *Leisure interests:* photography, music, travel. *Address:* The British Council, 10 Spring Gardens, London, SW1A 2BN, England. *Telephone:* 01-930 8466.

LLEWELLYN, John; American scientist; b. 22 April 1933, Cardiff, U.K.; s. of John and Morella (Roberts) Llewellyn; m. Valerie Davies-Jones; one s. two d.; ed. Univ. Coll., Cardiff, Wales; Research Fellow, Nat. Research Council of Canada 1958-60; Assoc. Prof. School of Eng. Science, Florida State Univ. 1964-72; selected by NASA as scientist-astronaut 1967; Dean, School of Eng. Science, Florida State Univ. 1970-72; Prof. Dept. of Energy Conversion, Coll. of Eng., Univ. of South Fla., Tampa 1973-; Co-ordinator, Scientist in the Sea Project 1973; aquanaut Nat. Oceanographic Atmospheric Admin; Scientific consultant on marine environment and energy; mem. Royal Inst. of Chem., American Inst. of Aeronautics and Astronautics, Radiation Research Soc. *Leisure interests:* sailing, underwater exploration. *Address:* 3010 St. Charles Drive, Tampa, Fla. 33618, U.S.A.

LLEWELYN-DAVIES, Baron (Life Peer), cr. 1963, of Hastoe in the County of Hertford; **Richard Llewelyn-Davies,** M.A., F.R.I.B.A., M.T.P.I.; British architect; b. 24 Dec. 1912; ed. Trinity Coll., Cambridge, and Ecole des Beaux Arts, Paris; Dir. Div. for Architectural Studies, Nuffield Foundation 1953-60; Prof. of Architecture, Univ. of London, and Head of Bartlett School of Architecture, Univ. Coll. 1960-69; Emer. Prof. of Urban Planning, Univ. Coll., London; Head of School of Environmental Studies 1971-75; Chair. Centre for Environmental Studies 1967-; also senior partner Llewelyn-Davies, Weeks; R.I.B.A. Bronze Medal. *Principal architectural works include:* many buildings for The Times, London, The Stock Exchange, London, new village at Rushbrooke, Suffolk, many hospitals in U.K. and overseas; Planning work includes studies and master plans for many cities in England, at Swindon, Milton Keynes and Washington, and urban renewal redevelopment projects in U.S.A. *Publications:* Design of Research Laboratories 1957, Children in Hospital 1958, Psychiatric Services and Architecture, Hospital Planning and Administration (with H. M. C. Macaulay) 1966. *Address:* 36 Parkhill Road, London, N.W.3, England; 130 East 59 Street, New York, N.Y. 10022, U.S.A. *Telephone:* 01-485 6576 (London).

LLORENTE M., Rodrigo, D.ECON.; Colombian politician, b. 25 Nov. 1928, Cali; s. of Hernando and Isabel Martínez de Llorente; m. Leonor Sardi de Llorente 1956; one s. three d.; Under-Sec. for Econ. Affairs, Ministry of Foreign Affairs 1952-53; Sec.-Gen. Banco Cafetero 1954-56; Man. ASECOLDA 1956-58; Legal Consultant, ANDI 1958-59; Minister of Devt. 1959-60; Legal Adviser, Inter-American Devt. Bank (IDB), Washington, D.C. 1961-65; Rep. of IDB in Europe 1966-69; Gen. Man. Banco Cafetero 1969-71; Minister of Finance 1971-73; Prof. of Econs., Univ. Nacional de Colombia, Colegio del Rosario and Univ. Javeriana; Pres. Interamerican Council of Trade and Production (CICYP). *Address:* Consejo Interamericano de Comercio y de Producción, Carrera 8A, No. 13-82, Of. 702, Bogotá, D.E., Colombia. *Telephone:* 82-22-68; 83-15-19; 83-15-39.

LLOYD, David P(ierce) C(aradoc), D.PHIL., D.SC.; American physiologist; b. 22 Sept. 1911, Auburn, Ala.; s. of Francis Ernest Lloyd, P.R.S.C. and Mary Elizabeth (Hart) Lloyd; m. 1st Kathleen M. Elliott 1937, 2nd Cynthia M. Meynell 1957; two s. one d.; ed. McGill and Oxford Univs.; Dept. Demonstrator, Oxford Univ. 1935-36; Research Asst. and Assoc., Rockefeller Inst. of Medical Research 1939-43; Asst. Prof. Yale Univ. 1943-45; Assoc. mem., Rockefeller Inst. (now Rockefeller Univ.) 1946-49, mem. of Inst., later designated Prof. at Rockefeller Univ. 1949-71; Hon. Research Fellow, Univ. Coll., London 1970-; mem. Nat. Acad. of Sciences 1953-, mem. Emeritus 1972-. *Publications:* Sections in Saunders' Textbook of Physiology 1946, 1949, 1955, James Arthur Lecture to American Museum of Natural Hist. 1959, and scientific papers in Journal of Neurophysiology, Journal of General Physiology, Proceedings of Nat. Acad. of Sciences, Annotations to 'Reflex Activity of the Spinal Cord' by Creed, Denny-Brown, Eccles, Liddell and Sherrington 1972, etc. *Leisure interests:* music, history. *Address:* New Cottage, Greatham, Pulborough, Sussex, RH20 2ES, England. *Telephone:* Pulborough 2688.

LLOYD, Seton, C.B.E., M.A., F.B.A., F.S.A., A.R.I.B.A.; British archaeologist; b. 30 May 1902, Birmingham; s. of John Eliot Howard and Florence Louise Lloyd; m. Ulrica Fitzwilliams-Hyde 1944; one s. one d.; ed. Uppingham and Architectural Assen.; Asst. to Sir Edwin Lutyens, P.R.A. 1927-28; excavated for Egypt Exploration Soc., Egypt 1929-30, for Oriental Inst., Univ. of Chicago in Iraq 1930-37, for Univ. of Liverpool in Turkey 1937-39; Technical Adviser, Govt. of Iraq, Directorate-Gen. of Antiquities 1939-49; Dir. British Inst. Archaeology in Ankara 1949-61, Hon. Sec. 1964-74, Pres. 1974-; Prof. of Western Asiatic Archaeology, London Univ. 1962-69, Emer. Prof. 1969-; Pres. British School of Archaeology in Iraq 1978; Lawrence of Arabia Memorial Medal (Royal Soc. for Asian Affairs) 1971, Gertrude Bell Memorial Medal, British School of Archaeology in Iraq 1978; Certificate of Merit, Turkey 1973. *Publications:* Mesopotamia 1934, Sennacherib's Aqueduct at Jerwan 1935, The Gimilsin Temple 1940, Presargonid Temples 1942, Ruined Cities of Iraq 1942, Twin Rivers 1943, Foundations in the Dust 1948, Early Anatolia 1956, Art of the Ancient Near East 1961, Beycesultan 1962, Mounds of the Near East 1963, Early Highland Peoples of Anatolia 1967, Archaeology of Mesopotamia 1978. *Leisure interest:* Near Eastern archaeology. *Address:* Woolstone Lodge, Faringdon, Oxon, England. *Telephone:* Uffington 248.

LLOYD-JONES, David Mathias, B.A.; British (Welsh) musician; b. 19 Nov. 1934, London; s. of Sir Vincent Lloyd-Jones; m. Anne Carolyn Whitehead 1964; two s. one d.; ed. Westminster School, Magdalen Coll., Oxford; Chorus Master, New Opera Co. 1961-64; conducted at Bath Festival 1966, City of London Festival 1966, Wexford Festival 1967-70, Scottish Opera 1968, Welsh Nat. Opera 1968, Royal Opera, Covent Garden 1971, Sadler's Wells Opera Co. (now English Nat. Opera) 1969-; Music Dir., English Nat. Opera North 1977-; also conductor for TV operas (Eugene Onegin, The Flying Dutchman, Hansel and Gretel), for operas in Amsterdam and Paris, and has appeared with most British symphony orchestras. *Publications:* Boris Godunov—Translation, Vocal Score, Eugene Onegin—Translation, Vocal Score, Boris Godunov—Critical Edition of Original Full Score, numerous contributions to publs. including Grove's Dictionary of Music and Musicians, Musik in Geschichte und Gegenwart, Music and Letters, The Listener. *Leisure interests:* theatre, French cuisine, growing. *Address:* English National Opera North, Leeds Grand Theatre, Leeds LS1 6NZ; 94 Whitelands House, Cheltenham Terrace, London SW3 4RA, England (Home). *Telephone:* 0532 462 216 (Leeds); 01-730 8694 (Home).

LLOYD-JONES, Peter Hugh Jefferd, M.A., F.B.A.; British classical scholar; b. 21 Sept. 1922, St. Peter Port, Guernsey; s. of Brevet-

Major W. Lloyd-Jones, D.S.O.; and Norah Leila Jefferd; m. Frances Elisabeth Hedley 1953; two s. [illegible] d.; ed. Lycée Français du Royaume-Uni (London), Westminster School, and Christ Church, Oxford; Fellow, Jesus Coll., Cambridge 1948-54; Fellow and E.P. Warren Praelector in Classics, Corpus Christi Coll., Oxford 1954-60; Regius Prof. of Greek and Student of Christ Church 1960-; Chancellor's Prize for Latin Prose, Ireland and Craven Scholarships 1947; J. H. Gray Lecturer, Cambridge 1961; Visiting Prof. Yale Univ. 1964-65, 1967-68; Sather Prof. of Classical Literature, Univ. of Calif. at Berkeley 1969-70; Alexander White Visiting Prof. Univ. of Chicago 1972-; Visiting Prof., Harvard Univ. 1976-77; Corresp. mem. Acad. of Athens, American Acad. of Arts and Sciences; Hon. D.Hum.Litt. (Chicago) 1970. *Publications:* Appendix to Aeschylus (Loeb Classical Library) 1957, Menandri Dyscolus (Oxford Classical Texts) 1960; Greek Studies in Modern Oxford 1961, The Justice of Zeus 1971, (ed.) Maurice Bowra: a Celebration 1974, Females of the Species 1975, Myths of the Zodiac 1978, Supplementum Hellenisticum (with P. J. Parsons) 1979; Imaginary Animals 1979; translated Greek Metre 1962, Aeschylus Agamemnon, The Libation-Bearers and The Eumenides 1970; edited The Greeks 1962, Tacitus 1964; articles and reviews in classical periodicals. *Address:* Christ Church, Oxford; Gateways, Harberton Mead, Oxford, England. *Telephone:* Oxford 48737 and 62393.

LO SU YIN (Peter Lo), LL.B.; Malaysian lawyer and politician; b. 19 May 1923; m.; four c.; ed. St. Mary's School, Sandakan, St. Anthony's Boys School, Singapore and Victoria Univ., Wellington; called to New Zealand Bar 1956, law practice 1957-; mem. Deputy Chair., Sandakan Town Bd. 1959-64; mem. Public Service Comm. 1961, 1962; mem. Legislative Council, North Borneo 1962-63, Inter-Govt. Cttee. Sabah/Malaysia 1962-63; M.P. 1963-78; Fed. Minister without Portfolio 1964; Chief Minister Sabah 1965-67; Chair. Sabah Chinese Assen. of the State Alliance Party 1965-75; Malaysian Medal. *Address:* P.O. Box 1475, Kota Kinabalu, Sabah, Malaysia.

LO YU-CHUAN; Chinese politician. Minister of Forestry 1979-. *Address:* People's Republic of China.

LOANE, Most Rev. Marcus Lawrence, K.B.E., M.A., D.D.; Australian ecclesiastic; b. 14 Oct. 1911, Waratah, Tasmania; s. of the late K. O. A. Loane; m. Patricia Knox 1937; two s. two d.; ed. The King's School, Parramatta, Univ. of Sydney, and Moore Theological Coll., Sydney; Resident Tutor and Chaplain, Moore Theological Coll., Sydney 1935-58, Vice-Prin. 1939-53, Prin. 1954-58; Canon, St. Andrew's Cathedral 1949-58; Bishop Co-adjutor, Diocese of Sydney 1958-66; Archbishop of Sydney and Metropolitan of New South Wales 1966-, Primate of Australia 1978-; Hon. D.D. (Wycliffe Coll., Toronto) 1958. *Publications:* Oxford and the Evangelical Succession 1951, Cambridge and the Evangelical Succession 1952, Masters of the English Reformation 1955, History of Moore Theological College 1955, Life of Archbishop Mowll 1959, Pioneers of the Reformation in England 1963, Sons of the Covenant 1963, The History of the China Inland Mission in Australia and New Zealand 1965, Makers of Our Heritage 1967, Do You Now Believe 1967, The Hope of Glory 1968, This Surpassing Excellence 1969, They Were Pilgrims 1970, By Faith We Stand 1971, They Overcame 1971, Amazing Grace 1972, The King is Here 1973, Hewn from the Rock (lectures) 1976, This is My Son 1977, The God who Acts 1978. *Leisure interest:* walking. *Address:* P.O. Box Q190, Queen Victoria Building, York Street, Sydney, N.S.W. 2000, Australia.

LOBANOV, Pavel Pavlovich; Soviet agriculturalist and politician; b. 15 Jan. 1902; ed. Timiryazev Agricultural Acad., Moscow; Dir. Voronezh Agricultural Inst. 1937; R.S.F.S.R. People's Commissar of Agric. 1938; U.S.S.R. People's Commissar of State Farms 1938-46; First Deputy U.S.S.R. People's Commissar of Agric. 1946-53; First Deputy Chair. Council of Ministers of R.S.F.S.R. and Minister of Agric. R.S.F.S.R. 1953-55; mem. U.S.S.R. Supreme Soviet 1954-; Deputy Chair. U.S.S.R. Council of Ministers 1955-56; Deputy Chair. State Planning Cttee. 1961; Chair. Union Chamber U.S.S.R. Supreme Soviet 1956-62; Pres. Lenin All Union Acad. of Agricultural Sciences 1956-61, 1965-; mem. Comm. for Agric. Union, Chamber U.S.S.R. Supreme Soviet, All-Union Council for Problems of Collective Farms, Experts' Comm. U.S.S.R. State Planning Cttee., Bd. U.S.S.R. Ministry of Agric.; Hon. mem. Bulgarian Acad. of Sciences, Hungarian Acad. of Sciences, Royal Agric. Soc. of England; corresp. mem. G.D.R. Acad. of Agric. Sciences; foreign mem. Polish Acad. of Sciences; Hero of Socialist Labour, Order of Lenin (twice), Hammer and Sickle Gold Star, other decorations. *Address:* Lenin All Union Academy of Agricultural Sciences, 21 Bolshoi Kharitonevsky per., B-78 Moscow 107078, U.S.S.R.

LOBO, José Carlos; Mozambique diplomatist and former teacher; b. 14 Sept. 1942, Quelimane; ed. California State Univ., U.S.A.; joined Mozambique Liberation Front (FRELIMO) in Tanzania 1964; Teacher and Dean of Students at Mozambique Inst., Dar es Salaam 1965-66; studied at Calif. State Univ., U.S.A. until 1973; Headmaster, FRELIMO Secondary School, Bagamoyo, Tanzania 1974-75; Headmaster, FRELIMO Secondary School, Ribaue, Mozambique 1975; Dir. of Int. Orgs. and Confs. Dept., Ministry of Foreign Affairs 1975-76; Perm. Rep. to UN March 1976-. *Address:* Permanent Mission of Mozambique to the United Nations, 866 United Nations Plaza, Room 52, New York, N.Y. 10017, U.S.A.

LOC, Nguyen Van; (*see* Nguyen Van Loc).

LØCHEN, Einar; Norwegian lawyer and diplomatist; b. 6 April 1918; m. Aud Sohnsen 1950; one s. one d.; ed. Oslo Univ., London School of Economics, Chicago Univ., Calif. Univ.; asst. judge 1945-46; Lawyer 1946-49; Asst. Adviser to Norwegian Ministry of Foreign Affairs 1949-51; Fellow of Chr. Michelsens Institutt, Bergen 1951-55; Counsellor to Norwegian Ministry of Foreign Affairs 1955-58; Perm. Rep. to Council of Europe 1958-63; Sec. Norwegian Del. to Nordic Council 1958-72; Judge, Norwegian Court of Appeal 1974, Norwegian Supreme Court 1977-. *Publications:* Norway's Views on Sovereignty 1955, A Comparative Study of Certain European Parliamentary Assemblies 1958, Norway in European Atlantic Co-operation 1964. *Address:* Møllebokken 1, Grini, Oslo 1, Norway.

LOCKE, Edwin Allen, Jr., A.B.; American industrialist, banker and diplomatist; b. 8 June 1910, Boston, Mass.; s. of Edwin A. and Elizabeth Ferguson Locke; m. 1st Dorothy Q. Clark 1934 (divorced), 2nd Karin Marsh 1952; three s. [illegible] d.; ed. Harvard Univ.; with Paris Branch, Chase Nat. Bank, N.Y. 1933-35, London Branch 1935-36, New York 1936-40; served in Office of Co-ordinator of Purchases, Advisory Comm. to Council of Nat. Defense 1940-41; Asst. Deputy Dir. Priorities Div., Office of Production Man. 1941; Deputy Chief Staff Officer Supply Priorities and Allocation Bd. 1941-42; Asst. to Chair. War Production Bd. 1942-44; Exec. Asst. to Personal Rep. of the Pres. 1944-45; Personal Rep. of the Pres., Washington and China 1945-46, Special Asst. to the Pres. March-Dec. 1946; Vice-Pres. of the Chase Nat. Bank, New York 1947-51; apptd. Special Rep. of Sec. of State, with personal rank of Amb. to co-ordinate econ. and tech. assistance programmes in the Near East 1951-53; Pres. and Dir. Union Tank Car Co. 1953-63; Dir. Harris Trust and Savings Bank 1955-63; Dir. Federal Home Loan Bank of Chicago 1956-63, Chair. 1961-63; mem. special Presidential mission to Liberia and Tunisia; Pres. and Dir. Modern Homes Construction Co. 1963-67, Coastal Products Corpn. 1963-67; Dir. Manpower Inc. 1961-75, Warner Nat. Corpn. 1969-77, Nat. American Stuyvesant Life Insurance Group 1968-; Pres. and Chief Exec. Officer American Paper Inst. 1968-77; Pres. Econ. Club of New York 1977-. *Address:* 522 Fifth Avenue, New York, N.Y. 10036, U.S.A. *Telephone:* 212-687-4660.

LOCKSPEISER, Sir Ben, K.C.B., M.A., D.SC., F.I.MECH.E., C.ENG., F.R.S.A., F.R.Ae.S., F.R.S.; British scientist; b. 9 March 1891, London; s. of Leon and Rose Lockspeiser; m. 1st Elsie Shuttleworth 1920 (died 1964), 2nd Mrs. M. A. Heywood 1966; one s. two d.; ed. Sidney Sussex Coll., Cambridge; Asst. Dir. Scientific Research, Ministry of Aircraft Production 1939, Deputy Dir. 1941, Dir. 1943; Dir.-Gen. Scientific Research (Air) Ministry of Supply 1946; chief scientist to Ministry of Supply 1946-49; Sec. Dept. of Scientific and Industrial Research 1949-56; Pres. European Org. for Nuclear Research 1955-57; Hon. Fellow Sidney Sussex Coll., Cambridge. *Leisure interests:* gardening and music. *Address:* Birchway, 15 Waverley Road, Farnborough, Hants., England. *Telephone:* Farnborough 43021.

LOCKWOOD, Sir Joseph Flawith, Kt.; British businessman; b. 14 Nov. 1904, Southwell, Notts.; s. of Joseph Agnew and Mabel Lockwood; Man. flour mills in Chile 1924-28; Tech. Man. Henry Simon Ltd. in Paris and Brussels 1928-33; Dir. Henry Simon Ltd., Manchester 1933; Dir. Henry Simon, Buenos Aires and Chair. Henry Simon (Australia) Ltd., etc. 1945; Chair. EMI (fmrly. Electrical and Musical Industries) Ltd. 1954-74, Dir. 1954-; Dir. Laird Group Ltd.; Vice-Pres. Cen. School of Speech and Drama; Dir. South Bank Theatre Bd. 1968-, Chair. 1977-; Chair. Industrial Reorganization Corpn. 1969-71; Chair. Royal Ballet 1971-. *Publications:* Provender Milling: the Manufacture of Feeding Stuffs for Livestock 1939, Flour Milling (in English, French, Spanish, German and Serbo-Croat) 1945. *Leisure interests:* walking, reading. *Address:* Flat 18, 33 Grosvenor Square, London, W1X 9LL, England.

LODGE, Henry Cabot, A.B.; (brother of John Davis Lodge, *q.v.*); American politician; b. 5 July 1902, Nahant, Mass.; s. of George Cabot Lodge and Matilda Elizabeth Frelinghuysen Davis; m. Emily Sears 1926; two s.; ed. Harvard Coll.; with Boston Evening Transcript 1924-25; mem. editorial staff New York Herald Tribune 1925-31; elected Representative to Gen. Court of Mass. 1932, 1934; U.S. Senator from Massachusetts 1936; Major U.S. Army, served with

1st American tank detachment, Libya 1942; re-elected to Senate 1942, resigned from Senate in order to go on active service with Army 1944; served Mediterranean and Europe until 1945; Senator from Mass. 1946-53; campaign man. for Republican nomination for Gen. Eisenhower 1951, 1952; Chair. Resolutions Cttee. Republican Nat. Convention 1948; U.S. Rep. to UN; Rep. on Security Council 1953-60; Republican Candidate for Vice-Pres. 1960; Trustee, Int. Inst. of Educ. 1961; Dir.-Gen. Atlantic Inst., Paris 1961-63; Amb. to Repub. of Viet-Nam 1963-64, 1965-67; Amb. to German Fed. Repub. 1968-69; Chief Negotiator at Viet-Nam talks in Paris 1969; Special Envoy of U.S. to the Vatican 1970-77; Visiting Prof. Gordon Coll. 1977; 24 hon. degrees; Eisenhower Gold Medal, Legion of Merit Medal, Légion d'honneur and Croix de guerre avec palmes, Thayer Medal, West Point, Bronze Star, six battle stars; commended by U.S. Senate for service in Viet-Nam. *Publications:* The Storm Has Many Eyes 1973, As It Was 1976. *Leisure interests:* boating, gardening, walking in woods. *Address:* 275 Hale Street, Beverly, Massachusetts 01915, U.S.A. *Telephone:* 617-922-0404.

LODGE, John Davis, B.A., LL.B., J.D. (brother of Henry Cabot Lodge, *q.v.*); American lawyer, writer and diplomatist; b. 20 Oct. 1903, Washington, D.C.; s. of George Cabot Lodge and Matilda Elizabeth Frelinghuysen Davis; m. Francesca Braggiotti 1929; two d.; ed. Middlesex School, Concord, Mass., Harvard Coll., Harvard Law School and Ecole de Droit, Paris; Naval Officer, U.S. Navy, Mediterranean Theatre 1942-46; Congressman from 4th District of Connecticut 1946-50; mem. Cttee. on Foreign Affairs; Gov. of Connecticut 1951-55; Amb. on special missions to Costa Rica, Panama and Puerto Rico 1953; Amb. to Spain 1955-61; Chair. Cttee. Foreign Policy Research Inst., Univ. of Pennsylvania, New England Cttee. ■ Peaceful Uses of Atomic Energy; Chair. pro tem. American-Chilean Council 1978; Hon. Chair. Spain-U.S. Chamber of Commerce; Pres. Jr. Achievement Inc. 1963-64; Amb. to Argentina 1969-74; hon. degrees from many U.S. colls. and univs.; Chevalier Légion d'honneur, Croix de guerre avec palmes, Grand Cross of Noble Order of Charles III (Spain), Gold Medal of Madrid, Grand Officer, Order of Merit of the Repub. of Italy, Order Polonia Restituta (Poland); Grand Cross of the Order of May (Argentina); numerous other foreign decorations; Republican. *Publications:* articles on politics, foreign policy and Spain. *Leisure interests:* tennis, riding, swimming, reading and writing. *Address:* 129 Easton Road, Westport, Connecticut 06880, U.S.A. *Telephone:* 203-227-6192.

LOEWE, Frederick; American (Austrian-born) composer; b. 10 June 1901, Berlin, Germany; studied piano with Ferruccio Busoni and Eugène d'Albert, composition and orchestration with Nicholas Reznicek; went to U.S.A. 1924; in collaboration with Alan Jay Lerner (*q.v.*) 1942-; many awards, incl. Acad. Award for song Gigi; Hon. D.Mus. (Redlands Univ.), Hon. D.F.A. (Univ. of New York City). *Composed music for:* Salute to Spring 1937, Great Lady 1938, Life of the Party 1942, Day Before Spring 1945, Brigadoon 1947, Paint Your Wagon 1951 (film 1969), My Fair Lady 1956 (film 1964), Gigi (film) 1958 (stage 1973), Camelot 1960 (film 1967), The Little Prince (film) 1975. *Address:* c/o ASCAP, 575 Madison Avenue. New York. N.Y. 10022. U.S.A

LOEWY, Raymond; American (French-born) industrial designer; b. 5 Nov. 1893, Paris; s. of Maximillian Loewy and Marie La Balme; m. Viola Erickson 1948; one d.; ed. Univ. of Paris; Capt. Corps of Engineers 5th Army, France 1914-18; liaison officer American Expeditionary Force, First World War; Art Dir. Westinghouse Electric 1929; started private org. of industrial design 1929; Head, Raymond Loewy Assocs. 1930-61; Founder, Compagnie de l'Esthétique Industrielle, Paris 1952; Chair. Raymond Loewy Int. Inc. 1961-75; mem. Pres.'s Cttee. on Employment of the Handicapped 1965-; Consultant to NASA 1967-; industrial design consultant to the U.S.S.R. Council of Ministers for Science and Tech.; lecturer at M.I.T., Harvard, Columbia, New York, Leningrad, Moscow Inst. of Ergonometry and Univ. of Calif.; Exposition of work, Smithsonian Inst., Washington, D.C. 1975; Hon. Royal Designer to Industry; Fellow, British Royal Soc. of Arts; Past Pres. and Fellow, American Soc. of Industrial Design; Fellow, American Soc. of Interior Designers; D.F.A. (Univ. of Cincinatti, California Art Center Coll., U.S. Acad. of Achievement); mem. French Chamber of Commerce of U.S., Bd. of Dirs. French Inst. of America, Soc. Automotive Engineers, American Soc. Mechanical Engineers, Soc. Naval Architects and Marine Engineers, American Soc. Space Medicine, American Railroad Soc.; Commdr. Légion d'honneur, Croix de guerre; hon. citizen of France by decree of the Prime Minister 1960; Citizen of Honour, Chicago 1962, New York 1966, Palm Springs 1967 and many other awards and prizes. *Publications:* The Locomotive, Its Aesthetics 1937, Never Leave Well Enough Alone (transl. into six languages) 1951, Raymond Loewy, Industrial Design Album 1968. *Leisure interests:* sand dune racing, yachting, painting. *Address:* Tierra Caliente, Palm Springs, Calif., U.S.A.; Manoir de la Cense, Rochefort-en-Yvelines; 20 Rue Boissière, Paris 16; 39 avenue d'Iéna, Paris, France; 25 Bruton Street, Berkeley Square, London, W.1. England (U.K. office). *Telephone:* New York 935-3600; Palm Springs (714) 325-0995, La Cense 484-3117; Paris 723-4355; London 493-0884.

LOGA-SOWIŃSKI, Ignacy; Polish politician and trade union official; b. 20 Jan. 1914, Vankewitz, Germany; s. of Władysław and Howorta Loga; m. Wanda Długosz 1957; one s. one d.; active in revolutionary work from early age, imprisoned several times for his work in Łódź branch of Communist Youth Union; released from prison 1939; took part in defence of Warsaw; helped organize underground group during the occupation; mem. Polish Workers' Party 1942-48, Sec. Cen. Cttee. 1943-44; mem. Supreme Command of People's Guard 1943-44; First Govt. Plenipotentiary, First Sec. Łódź Voivodship Cttee., PWP 1945-48; dismissed from the Cen. Cttee. on charge of right-wing nationalist deviation 1948; mem. Polish United Workers' Party 1948-, Politburo Cen. Cttee. 1956-Feb. 1971; Chair. Voivodship Council of Trade Unions, Wroclaw 1949-53; Sec. Cen. Council of Trade Unions 1954-56, Chair. 1956-71; Vice-Chair. World Fed. of Trade Unions 1961-69; Deputy to Seym (Parl.) 1957-72; Deputy Chair. State Council 1956-71; Amb. to Turkey 1971-78; Order of Banner of Labour 1st Class 1959, Order of Builders of People's Poland 1964, and other decorations. *Address:* c/o Ministry of Foreign Affairs, Warsaw, Poland.

LOGAN, Sir Douglas (William), Kt., M.A., D.PHIL., D.C.L., LL.D., D.LITT.; British barrister-at-law and university administrator; b. 27 March 1910, Liverpool; s. of Robert Logan and Euphemia Taylor Stevenson; m. 1st Vaire Olive Wollaston 1940, 2nd Christine Peggy Walker 1947; three s. one d.; ed. Liverpool Collegiate School, Univ. Coll., Oxford, and Harvard Law School; Asst. Lecturer, L.S.E. 1936-37; called to the Bar 1937; Fellow of Trinity Coll., Cambridge 1937-43; served Ministry of Supply 1940-44; Clerk of Court, Univ. of London 1944-47; Prin. Univ. of London 1948-75; Pres. British Univs. Sports Fed. 1962-75; Trustee of City Parochial Foundation 1953-67; Vice-Chair. Athlone Fellowship Cttee. 1959-72; mem. Commonwealth Scholarships Comm. 1960-, Deputy Chair. 1968-; mem. Marshall Scholarship Comm. 1961-67; Vice-Chair. Assn. of Univs. of the British Commonwealth 1961-67, Chair. 1962, Hon. Treas. 1967-74, Deputy Hon. Treas. 1974-; Deputy Chair. Old Vic Theatre, Univs. Superannuation Scheme Ltd.; mem. Nat. Theatre Bd. 1962-68; Gov. Bristol Old Vic; Rede Lecturer 1963; Hon. Bencher, Middle Temple; mem. Pharmaceutical Soc.; Hon. F.R.I.B.A.; Hon. Fellow, L.S.E., Univ. Coll., Oxford, Univ. Coll., London, School of Pharmacy, Univ. of London; Fellow, Wye Coll., Imperial Coll. of Science and Technology; Hon. F.D.S., R.C.S. Eng.; Chevalier Légion d'honneur 1957. *Address:* Restalrig, Mountain Street, Chilham, Kent, CT4 8DQ, England. *Telephone:* 022-776-640.

LOGAN, Joshua; American film and stage director and author; b. 5 Oct. 1908, Texarkana, Texas; s. of Joshua Lockwood Logan and Sue Nabors Logan; m. Nedda Harrigan 1945; one s. one d.; ed. Princeton Univ.; Capt. Air Force 1942-45; theatre dir. 1938-, film dir., scriptwriter and producer 1936-; Pulitzer Prize for South Pacific 1950. *Broadway productions include:* On Borrowed Time 1938, I Married ■ Angel 1938, Knickerbocker Holiday 1938, Stars in Your Eyes 1938, Mornings at Seven 1939, Two for the Show 1939, Higher and Higher (co-author) 1939, Charlie's Aunt 1940, By Jupiter 1942, This is the Army 1942, Annie Get Your Gun 1945, Happy Birthday 1945, John Loves Mary 1946, Mister Roberts (co-author) 1948, South Pacific (co-author) 1949, The Wisteria Trees (author) 1950, Wish You Were Here (co-author) 1952, Picnic 1953, Kind Sir 1953, Fanny 1954, Middle of the Night 1956, Blue Denim 1958, The World of Suzie Wong 1958, There Was A Little Girl 1960, All American 1961, Mr. President 1962, Tiger, Tiger, Burning Bright 1962, Ready When You Are, C. B. 1964, Look to the Lilies 1970, Miss Moffatt (musical) 1974; films include: Garden of Allah 1936, I Met My Love Again 1937, Picnic 1955; Bus Stop 1956, Sayonara 1957, South Pacific 1957, Tall Story 1959, Fanny 1960-61, Ensign Pulver 1963-64, Camelot 1966-67, Paint Your Wagon 1968-69. *Leisure interests:* gardening, sculpting, painting. *Address:* 435 East 52nd Street, New York, N.Y. 10022, U.S.A.

LOGANATHAN, Chelliah, B.COM.; Ceylonese finance consultant; b. 19 Sept. 1913, Point Pedro; s. of Murugesa Chelliah and Narayanar Thangammah; m. Thilagawathy 1940; three s. three d.; ed. Hartley Coll, Jaffna Coll., Jaffna and Univ. Coll., Colombo; fmrly.: Chair. Ceylonese Nat. Council of Int. Chamber of Commerce; Vice-Chair. Comm. on Asian and Far-Eastern Affairs, ICC; Gen. Man., Chief Exec. Bank of Ceylon, Devt. Finance Corpn. of Ceylon; mem. Nat. Planning Council, Royal Comm. on Employee Participation in Profits; Adviser World Bank, Washington, D.C., Devt. Bank of the Philippines; Consultant UN Asian Inst. for Econ. Devt.

and Planning; at present: Pres. Governing Council Consultancy Finance and Devt. Ltd., Sri Lanka; Chair. Bd. of Dirs. Investment Advisory and Man. Services Ltd., Sri Lanka. *Publications:* Development Savings Bank, Asia's Dilemma—Private Sector in Economic Development, Development Savings Banks and the World—A Tool for the Diffusion of Economic Power 1973. *Address:* 17 Alfred Place, Colombo - 3 (Office); 46 41st Lane, Colombo - 6, Sri Lanka (Home).

LOHR, Helmut H. W., DIPL. ING.; German engineer and business executive; b. 7 April 1931, Munich; s. of Eduard and Gertrud (Schnitzler) Lohr; m. Franziska Wiedemann 1959; two d.; ed. Munich Tech. Univ., Harvard Business School, U.S.A.; worked for Int. Switching Systems Dept. (FTZ), Deutsche Bundespost 1959; joined Standard Elektrik Lorenz AG 1965, Dir. 1974, Man. Dir. 1976-; Pres. Fachverband Fernmeldetechnik im ZVEI (Cen. Assn. of electro-technical industries). *Address:* 42 Hellmuth-Hirth-Strasse, 7000 Stuttgart 40, Federal Republic of Germany. *Telephone:* 0711-821-5100.

LOHSE, Eduard, D.THEOL.; German ecclesiastic; b. 19 Feb. 1924, Hamburg; s. of Dr. Walther Lohse and Dr. Wilhelmine Lohse (née Barrelet); m. Roswitha Flitner 1952; two s. one d.; ed. Bethel/Bielefeld and Göttingen; Pastor, Hamburg 1952; Privatdozent, Faculty of Evangelical Theology, Mainz 1953; Prof. of New Testament, Kiel 1956, Göttingen 1964; Bishop of Hanover 1971-; mem. Göttingen Akad. der Wissenschaften. *Publications:* Märtyrer und Gottesknecht 1955, Die Offenbarung des Johannes 1960, Die Texte aus Qumran 1964, Die Geschichte des Leidens und Sterbens Jesu Christi 1964, Die Briefe an die Kolosser und an Philemon 1968, Umwelt des Neuen Testaments 1971, Entstehung des Neuen Testaments 1972, Die Einheit des Neuen Testaments 1973. *Leisure interest:* music. *Address:* Haarstrasse 6, 3000 Hannover 1, Federal Republic of Germany. *Telephone:* (0511) 8001-88/89.

LOKOLOKO, Sir Tore, G.C.M.G., O.B.E.; Papua New Guinea politician; b. 21 Sept. 1930, Iokea, Gulf Province; s. of Paramount Chief Lokoloko Tore and Kevau-Sarufa; m. Lalahaia Meakoro 1950; four s. six d.; elected to House of Assembly (now Nat. Parl.) as Opposition mem. for Kerema (Gulf Province); Gov.-Gen. of Papua New Guinea March 1977-. *Leisure interests:* golf, fishing. *Address:* Government House, P.O. Box 79, Port Moresby, Papua New Guinea. *Telephone:* 214466.

LOLLI, Ettore; Italian financier; b. 23 June 1908, Bologna; s. of Fausto and Ada Leoni Lolli; ed. Rome Univ.; joined Società Romana di Elettrica as transmission line engineer 1930, advanced to gen. man. position in 1940s; with American Gas and Service Corpn. 1940-45; joined Italian Embassy and helped set up Deltec, official channel for econ. relations between Italy and U.S.A. 1945-50; joined Banca Nazionale del Lavoro 1950, organized its New York office, Vice-Dir.-Gen. 1966; Chief Exec. Officer, Riunione Adriatica di Sicurtà S.p.A. 1966-68, Chair. 1969-; Chair. British Olivetti Ltd.; Vice-Chair. Mfrs. Hanover Ltd.; mem. Bd. London and New York Investment S.A. and of some thirty other European and North American cos. and banks. *Address:* British Olivetti Ltd., 30 Berkeley Square, London W.1., England.

LOLLOBRIGIDA, Gina; Italian actress; b. 4 July 1927, Sibiaco; d. of Giovanni and Giuseppina Mercuri; m. Milko Skofic 1949; one s.; ed. Liceo Artistico, Rome; first screen role in Pagliacci 1947; has since appeared in numerous films including Campane a Martello 1948, Cuori senza Frontiere 1949, Achtung, banditi! 1951, Enrico Caruso 1951, Fanfan la Tulipe 1951, Altri Tempi 1952, The Wayward Wife 1952, Les belles de la nuit 1952, Pane, amore e fantasia 1953, La Provinciale 1953, Pane, amore e gelosia, La Romana 1954, Il Grande Gioco 1954, La Donna più Bella del Mondo 1955, Trapeze 1956, Notre Dame de Paris 1956, Solomon and Sheba 1959, Never So Few 1960, Go Naked in the World 1961, She Got What She Asked For 1963, Woman of Straw 1964, Le Bambole 1965, Hotel Paradiso 1966, Buona Sera Mrs. Campbell 1968, King, Queen, Knave 1972. *Publication:* Italia Mia (photography) 1974. *Address:* 120 Inglewood Drive, Toronto, Ontario, Canada.

LOMAKO, Pyotr Fadeyevich; Soviet metallurgist and government official; b. 12 July 1904; ed. Moscow Inst. of Non-Ferrous Metals and Gold; mem. CPSU 1925-; Engineer, Dir. of Plant, Man. of Trust in Non-Ferrous Metallurgy 1932-39; Deputy Minister of Non-Ferrous Metallurgy 1939-40, Minister 1940-48, 1950-53, 1954-57; Deputy Minister of Metallurgical Industry 1948-50, 1953-54; Deputy to U.S.S.R. Supreme Soviet 1946-50, 1954-; Chair. Krasnoyarsk Nat. Econ. Council 1957-61; mem. CPSU Cen. Cttee. 1961-; Deputy Chair. CPSU Cen. Cttee. Bureau for R.S.F.S.R. 1961-62; Deputy Chair. U.S.S.R. Council of Ministers and Chair. State Planning Cttee. (Gosplan) 1962-65; Minister of Non-Ferrous Metal Industry 1965-; Deputy to Supreme Soviet; Order of Lenin (six times), and other decorations. *Address:* U.S.S.R. Ministry of Non-Ferrous Metal Industry, 5-7 Ploshchad Nogina, Moscow, U.S.S.R.

LOMAX, Alan; American collector of folk songs; b. 31 Jan. 1915, Austin, Texas; s. of John A. and Bess B. Lomax; m. 1st Elizabeth Harold 1937, 2nd Antoinette Marchand 1962; one d.; ed. Univ. of Texas, Harvard and Columbia Univs.; American Folk Music Library of Congress 1937-42; CBS 1939-44; Decca 1947-49; Research at Univ. of W. Indies 1962, Columbia 1963-; Dir. Cantometrics Project, Dept of Anthropology, Columbia Univ. 1963-; many lectures, radio programmes and over 100 recordings of folk and primitive music; Ed., World Library Folk and Primitive Music, Columbia Records (19 vols.) 1951-57 and other series. *Publications:* Harriett and her Harmonium, Mister Jelly Roll 1949, The Rainbow Sign 1959, Folk Songs of North America 1960, Penguin Book of American Folk Songs 1961, Folk Song Style and Culture 1968, 3,000 Years of Black Poetry (with R. Abdul) 1969; Co-ed. with John A. Lomax: American Ballads and Folk Songs 1934, Negro Folk Songs as Sung by Leadbelly 1935, Cowboy Songs 1937, Our Singing Country 1939, Folk Song U.S.A. 1947, and many articles. *Leisure interests:* travel, the sea. *Address:* Cantometrics, 215 West 98th Street, 12-E, New York, N.Y. 10025, U.S.A.

LOMBARDO, Ivan Matteo; Italian politician; b. 22 May 1902, Milan; m. Maria V. Astorri 1926; one d.; Ed., Labour Section, Avanti! 1920-22; in business 1925-45; Industrial Commr. Lombardy Liberation Cttee. 1945; mem. Consulta Nazionale, Under-Sec. of State for Industry and Commerce 1945-46; elected to Constituent Nat. Ass. 1946; Chief Italian Del. for negotiations with France 1946; Sec.-Gen. Partito Socialista Italiano di Unità Proletaria (PSIUP) 1946; Chief Italian del. U.S.A. Treaty negotiations 1947; mem. Nat. Ass. 1948-53; Minister of Industry and Commerce 1948-49, of Foreign Trade 1950-51; Chief Italian del. E.D.C. Conf., Paris 1951-54; Co-Pres. Italian American Council for Marketing 1951-52; Pres. Nat. Productivity Council (C.N.P.) 1955-67; Pres. Nat. Handicrafts Devt. Co. (C.N.A.), Florence 1948-61, Milan Triennial Exhbn. 1949-61, Italian Chamber of Commerce for the Americas 1951, Italian Atlantic Cttee. 1955, Atlantic Treaty Assn. (London) 1959-61, Lloyd Internazionale (Rome); Hon. Gov. Institut Atlantique; Chair. Credito Commerciale Tirreno; Knight Grand Cross, Italian Order of Merit, Officier Légion d'honneur, Knight of Orden de Mayo (Argentina), Milan Gold Medal, Grand Cross, Portuguese Order of Infante Henrique. *Address:* Via Archimede 68, 00197 Rome, Italy. *Telephone:* 87.89.58.

LOMNICKI, Tadeusz; Polish actor and theatre director; b. 18 July 1927, Podhajce; m.; two c.; ed. Studio Theatrical School, Cracow, State Coll. of Theatrical Arts, Warsaw; Old Theatre, Cracow 1945-46; Wyspiański's Theatre, Katowice 1946-47; Słowacki's Theatre, Cracow 1947-49; Współczesny Theatre, Warsaw; Pro-Rector, State Coll. of Theatrical Arts, Warsaw 1969-72, Rector and Extraordinary Prof. 1972-; Dir. Teatr na Woli, Warsaw 1976-; acts in films and TV; Deputy mem. Cen. Cttee. Polish United Workers' Party 1971-75, mem. 1975-; mem. Presidium Cen. Board, Soc. for Polish-Soviet Friendship 1974-; Order of Banner of Labour 2nd Class, State Prize 1st Class 1968, 1978. *Roles include:* title role in The Resistible Rise of Arturo Ui, Edgar in Play Strindberg, Solony in Three Sisters, Prisypkin in The Bed-Bug by Majakovsky, Fool in Twelfth Night, Michal in Pan Wołodyjowski and Potop (films), title role in Kordian by Słowacki, Jan and Ańzelm in The First Day of Freedom by Kruczkowski, Orestes in Iphigenie auf Tauris, Goya in When Reason Sleeps by A. R. Vallejo, Batarzeff in Minutes of Certain Meeting by Gelman (also directed), Bukar in A Performance of Hamlet by Brěspan, Galileo Galilei in Life of Galileo by Brecht, Pres. Starzyński in Anywhere You Are, Mr. President (film). *Address:* Ul. Piwna 21/23 m.2, 00-265 Warsaw, Poland.

LOMONOSOV, Vladimir Grigoriyevich; Soviet politician; b. 1928; ed. Moscow Steel Inst.; Asst. Foreman, Moscow Hammer and Sickle Iron Works 1953-58; mem. CPSU 1950-; Sec. Kalinin raion Cttee., Moscow, CPSU 1958-62; Head, Cen. Asian Bureau, CPSU Dec. 1962-65; Second Sec. Cen. Cttee. of CP of Uzbekistan 1965-76; mem. Bureau of Cen. Cttee. of CP of Uzbekistan 1965-76, CPSU Cen. Cttee. 1966-; Deputy to U.S.S.R. Supreme Soviet 1966-; Chair. U.S.S.R. State Cttee. on Labour and Social Questions; Vice-Chair. Planning and Budgetary Comm., Soviet of the Union; Order of Lenin. *Address:* State Committee on Labour and Social Questions, Moscow, U.S.S.R.

LON NOL, Marshal; Cambodian soldier and politician; b. 13 Nov. 1913, Kampong Leav; ed. Chasseloup Laubat High School, S. Viet-Nam, and Royal Mil. Acad., Cambodia; Govt. official 1937-52; Gov. of Kratie province 1945; Chief of Nat. Police; Army Area Commdr. 1952; Gov. of Battambang province 1954; Minister of

Nat. Defence and Chief of Gen. Staff 1955-66; C.-in-C. of the Khmer Royal Armed Forces 1960; Deputy Prime Minister of Cambodia 1963, Prime Minister 1966-67, First Vice-Pres. in Charge of Nat. Defence 1967-69; Prime Minister and Minister of Nat. Defence 1969-71; led coup to overthrow Prince Norodom Sihanouk (*q.v.*) March 1970; Titular Prime Minister 1971-72; Pres. Khmer Repub. 1972-75; Supreme Commdr. of the Khmer Armed Forces 1972-74; Chair. Supreme State Council 1973-74, High Exec. Council 1974-75; left the country April 1975. *Address:* Hawaii, U.S.A.

LONDON, Irving Myer, M.D.; American physician; b. 24 July 1918, Malden, Mass.; s. of Jacob A. London and Rose Goldstein; m. Huguette Piedzicki 1955; two s.; ed. Harvard Coll. and Harvard Medical School; Instructor, Assoc. Asst. Prof., Assoc. Prof. of Medicine, Columbia Univ. Coll. of Physicians and Surgeons 1947-55; Prof. and Chair. Dept. of Medicine, Albert Einstein Coll. of Medicine 1955-70, Visiting Prof. of Medicine 1970-; Prof. of Biology, M.I.T. 1969-; Dir. Harvard-M.I.T. Program in Health Sciences and Technology 1969-; Visiting Prof. of Medicine, Harvard Medical School 1969-72; Prof. of Medicine at Harvard Univ. and M.I.T. 1972-; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Univ. of Chicago); Theobald Smith Award in Medical Sciences (A.A.A.S.). *Publications:* numerous publications on the metabolism of erythrocytes and of hemoglobin 1948-. *Address:* Harvard-M.I.T. Program in Health Sciences and Technology, 77 Massachusetts Avenue, Cambridge, Mass. 02139; 41 Fresh Pond Lane, Cambridge, Mass. 02138. U.S.A. (Home). *Telephone:* (617) 253-4030 (Office).

LONG, Augustus C.; American oil executive; b. 23 Aug. 1904, Starke, Fla.; s. of Augustine V. and Ruby (Brownlee) Long; m. 1st Elizabeth Walsh 1927 (died 1963), 2nd Doris Ann Penrose 1964; four d. (one deceased); ed. U.S. Naval Acad.; joined Texaco Inc. 1930; Vice-Pres. in charge of E. Hemisphere operations 1949-51; Dir. 1950-; Exec. Vice-Pres. 1951-53, Pres. 1953-56, Chair. of Bd. of Dirs. and Chief Exec. Officer 1956-65; retd. from active service 1965-70; mem. Bd. of Dirs. and Exec. Cttee., Chief Exec. Officer Sept. 1970-Dec.1971; Chair. Exec. Cttee. Sept. 1970-; Chair. Bd. Emer. Trustees, Presbyterian Hospital; [illegible] Bd. Miami Heart Inst.; Hon. mem. Bd. American Petroleum Inst.; mem. The Business Council, Metropolitan Opera Assn.; Hon. LL.D. (Boston Coll. 1957, St. Joseph's Coll. 1961, Columbia Univ. 1964), Hon. D.Sc. (Hampden-Sydney Coll.) 1963; Commdr. Cross, Order of Orange-Nassau (Netherlands) 1955; Commdr. Order of the Crown (Belgium) 1968. *Address:* 4430 Sabal Palm Road, Miami, Fla. 33137, U.S.A.

LONG, Esmond R., A.B., PH.D., M.D.; American pathologist; b. 16 June 1890, Chicago, Ill.; s. of John Harper Long and Catherine Belle Stoneman (Long); m. Marian Boak Adams 1922 (died 1974); one s. one d.; ed. Univ. of Chicago; Asst. to Prof. of Pathology, Univ. of Chicago 1911-32; Asst. in Pathology, Prague, Czechoslovakia 1922; Dir. of Henry Phipps Inst. for the Study, Treatment and Prevention of Tuberculosis and Prof. of Pathology, Univ. of Pa. 1932-55; Dir. of Medical Research, Nat. Tuberculosis Assn. (U.S.A.) 1947-55; Prof. Emeritus of Pathology, Univ. of Pa. 1955-; Chair. Div. of Medical Sciences, Nat. Research Council (U.S.A.) 1936-39; Pres. Wistar Inst. of Anatomy and Biology, Philadelphia 1939-42; Col., Medical Corps, U.S. Army (service in U.S.A. and Europe) 1942-46; Chief consultant on tuberculosis, U.S. Army 1942-46; Ed., Int. Journal of Leprosy 1964-69; [illegible] Nat. Acad. of Sciences (U.S.A.), American Philosophical Soc.; Hon. Sc.D. (Univ. of Pa.) 1948; Philadelphia Award 1954; Legion of Merit, U.S.A. 1946. *Publications:* Chemistry and Chemotherapy of Tuberculosis 1923, 1932, 1958; History of Pathology 1928, 1965; Selected Readings in Pathology 1929, 1961; Tuberculosis in the Army of the United States in World War II 1955; History of American Pathology 1962, History of American Society for Experimental Pathology 1972, History of the American Association of Pathologists and Bacteriologists 1974; journal articles on pathology, tuberculosis and history of medicine 1913-72. *Address:* 220 Locust Street, Apartment 23B, Philadelphia, Pa., U.S.A. *Telephone:* Walnut 3-0420.

LONG, Franklin Asbury; American chemist and educationist; b. 27 July 1910, Great Falls, Mont.; s. of Franklin A. Long and Ethel Beck; m. Marion Thomas 1937; one s. one d.; ed. Univs. of Montana and California (Berkeley); Fellow in Chem., Univ. of Calif. (Berkeley) 1933-34; Instructor in Chem., Univ. of Chicago 1936-37; Faculty mem. Chem. Dept., Cornell Univ. 1937, Chair. 1950-60; Research, Carnegie Inst. of Tech. 1942-45; Consultant, Nat. Defense Research Cttee. 1941-45; Consultant, Nat. Bureau of Standards 1957, Dept. of Army 1953-59, Dept. of Air Force 1957-62, of Defense 1959-62; Asst. Dir. U.S. Arms Control and Disarmament Agency 1962-63, Consultant 1963-73; Dir. Arms Control Assn. 1971; Co-Chair. American Pugwash Steering Cttee. 1974-; Visiting Chemical Consultant, Brookhaven Nat. Lab. 1946-; mem. Pres. Science Advisory Cttee. 1961-66; Vice-Pres. Research and Advanced Studies, Cornell Univ. 1963-69; Trustee, Assoc. Univs. Inc. 1946-74; Henry R. Luce Prof. of Science and Soc., Cornell Univ. 1969-; Dir. Program on Science, Technology and Soc. 1969-73; Dir. Inmont Corpn. 1965-77, Dir. Carrier Corpn. 1977-, Exxon Corpn. 1969-; Trustee, Alfred P. Sloan Foundation 1970-; mem. U.S. India Subcomm. for Educ. and Cultural Affairs 1974, Co-Chair. 1977-; mem. American Chemical Soc. 1939-, American Physics Soc. 1941-60, Nat. Acad. of Sciences 1963-, A.A.A.S. 1963-, American Acad. of Arts and Science 1965-, Council on Foreign Relations 1964-, U.S. Continuing Comm. of Pugwash 1967-71. *Publications:* numerous articles on chemistry, arms control and disarmament, and science and society; Ed. Arms, Defense Policy, and Arms Control. *Address:* 608 Clark Hall, Cornell University, Ithaca, N.Y.; 429 Warren Road, Ithaca, N.Y., U.S.A. (Home). *Telephone:* 607-256-3810.

LONG, Gerald, B.A.; British journalist; b. 22 Aug. 1923, York; s. of Fred Harold and Sabina (Walsh) Long; m. Anne Hamilton Walker 1951; two s. three d.; ed. St. Peter's School, York, and Emmanuel Coll., Cambridge; served with British Army 1943-47; Reuters 1948-, Corresp. in France, Germany and Turkey 1950-60, Asst. Gen Man. 1960-63, Chief Exec. 1963-, Gen. Man. 1963-73, Man. Dir. 1973-; Chair. Visnews Ltd. 1968-; Chair. Exec. Cttee. Int. Inst. of Communication Ltd. 1973-; F.B.I.M. 1978. *Leisure interest:* cooking. *Address:* Reuters Ltd., 85 Fleet Street, London, EC4P 4AJ; 38 Myddelton Square, London EC1R 1YB, England (Home). *Telephone:* 01-353 6060 (Office); 01-278 9084 (Home).

LONG, Olivier, D.EN D., D.ÈS SC.POL.; Swiss diplomatist; b. 1915, Petit-Veyrier, Geneva; s. of Dr. Edouard Long and Dr. Marie Landry; m. Francine Roels 1946; one s. two d.; ed. Faculté de Droit and Ecole des Sciences Politiques à Paris and Univ. de Genève; with Int. Red Cross 1941-46; Foreign Affairs Dept., Berne 1946-49; Washington Embassy 1949-53; Div. of Commerce, Berne 1954-55; Govt. Del. for Commercial Agreements 1955-66; Head of Swiss Del. to European Free Trade Assn. (EFTA) 1960-66; Amb. to United Kingdom and Malta 1967-68; Dir.-Gen. GATT 1968-; Prof. Graduate Inst. of Int. Studies Geneva 1962-. *Leisure interests:* music, reading, skiing, swimming. *Address:* General Agreement on Tariffs and Trade (GATT), Centre William Rappard, 154 rue de Lausanne, 1211 Geneva 21, Switzerland. *Telephone:* (022) 31-02-31.

LONG, Russell B.; American lawyer and politician; b. 3 Nov. 1918; ed. Fortier High School and Louisiana State Univ.; served U.S. Navy 1942-45; in private legal practice 1945-48, Exec. Counsel to Gov. of Louisiana 1948; U.S. Senator from Louisiana 1948-, Senate Majority Whip 1965-69; Chair. Finance Cttee. 1966; Democrat. *Address:* Senate Office Building, Washington, D.C.; 1112 Steele Boulevard, Baton Rouge, La., U.S.A.

LONGERSTAEY, Edouard; Belgian diplomatist; b. 14 Dec. 1919; m.; three c.; joined diplomatic service 1946; Vice-Consul, New York 1947-50; Second Sec., The Hague 1952-56; First Sec., Teheran 1956-58; Chef de Cabinet, Ministry of Overseas Trade, July-Nov. 1958; Consul-Gen., Lille 1959-61; Chief, Belgian Mission to Democratic Repub. of Congo March-Dec. 1961; Chargé d'affaires, Léopoldville (now Kinshasa) Dec. 1961-Feb. 1962; Amb. to Algeria 1962-64; Deputy Dir.-Gen. of Foreign Econ. Affairs 1964-66; Perm. Rep., UN Office, Geneva 1966-68; Amb. to Italy 1968-69; Perm. Rep. to UN 1970-76; Sec.-Gen. Western European Union 1977-. *Address:* 9 Grosvenor Place, London, SW1X 7HL, England.

LONGFORD, 7th Earl of (cr. 1785); **Francis Aungier Pakenham** (cr. Baron 1945), K.G., P.C., M.A.; British politician and writer; b. 5 Dec. 1905; s. of 5th Earl of Longford; m. Elizabeth Harman (now Countess of Longford, *q.v.*) 1931; four s. four d. (one deceased); ed. Eton Coll. and New Coll., Oxford; Tutor, Univ. Tutorial Courses, Stoke-on-Trent 1929-31; with Conservative Party Econ. Research Dept. 1930-32; Lecturer in Politics, Christ Church, Oxford 1932; Student in Politics, Christ Church 1934-46 and 1952-; Prospective Parl. Labour Candidate for Oxford City 1938; served Bucks. Light Infantry 1939-40; personal asst. to Sir William Beveridge 1941-44; Lord-in-Waiting 1945-46; Parl. Under-Sec. to War Office 1946-47; Chancellor of the Duchy of Lancaster 1947-48; Minister of Civil Aviation 1948-51; First Lord of the Admiralty May-Oct. 1951; Lord Privy Seal and Leader of House of Lords 1964-65, 1966-68; Sec. of State for Colonies 1965-66; Chair. Nat. Bank Ltd. 1955-62; Chair. Sidgwick and Jackson Ltd. (Publishers) May 1970. *Publications:* Peace by Ordeal (The Anglo-Irish Treaty of 1921), Born to Believe 1953, The Causes of Crime 1958, Five Lives 1963, Humility 1969, De Valéra (with T. P. O'Neill) 1970, The Grain of Wheat 1974, The Life of Jesus Christ 1974, Abraham Lincoln 1974, Kennedy 1976, Francis of Assisi: A Life for All Seasons 1978. *Address:* Bernhurst, Hurst Green, Sussex; and 18 Chesil Court, Chelsea Manor Street, London S.W.3, England. *Telephone:* Hurst Green 248; 01-352 7794 (London).

LONGFORD, Countess of; **Elizabeth Pakenham,** C.B.E., F.R.S.L.; British writer; b. 30. Aug 1906, London; d. of N. B. Harman, F.R.C.S., and Catherine Chamberlain; m. Francis A. Pakenham (now Earl of Longford, *q.v.*) 1931; four s. four d. (one deceased); ed. Headington School, Oxford, and Lady Margaret Hall, Oxford; Parliamentary Candidate (Labour) Cheltenham 1931, Oxford 1950; Trustee Nat. Portrait Gallery 1967-78; mem. Advisory Bd., Victoria and Albert Museum 1969-75, Advisory Bd., British Museum 1976-; Hon. D.Litt. (Sussex) 1970; James Tait Black Prize for Victoria R.I. 1964; Yorkshire Post Book of the Year Prize for Wellington: The Years of the Sword 1969. *Publications:* Jameson's Raid 1959, Victoria R.I. 1964, Wellington: The Years of the Sword 1969, Wellington: Pillar of State 1972, Winston Churchill 1974, The Royal House of Windsor 1974, Byron's Greece (with photographer Jorge Lewinski) 1975, Byron 1976, Wilfred Scawen Blunt 1978. *Leisure interests:* Victoriana, gardening. *Address:* 18 Chesil Court, Chelsea Manor Street, London, S.W.3; Bernhurst, Hurst Green, Sussex, England. *Telephone:* 01-352 7794 (London); Hurst Green 248.

LONGLEY, James B., LL.B.; American politician; b. 22 April 1924; s. of late James B. and Catherine Wade Longley; m. Helen Longley; two s. three d.; ed. Bowdoin Coll., American Coll. of Life Underwriters, Univ. of Maine Law School; Lecturer, Instructor Amer. Coll. of Life Underwriters 1957-65; Past Pres. Bd. of Eds. of Query, Soc. of Chartered Life Underwriters; Gen. Agent New England Mutual Life Insurance Co.; Pres. Longley Assocs.; Partner Longley & Buckley (on leave of absence); Gov. of Maine 1975-79, mem. Maine and American Bar Asscns.; fmr. Chair. Maine Management and Cost Survey Study of Maine State Govt. *Address:* 40 Robinson Gardens, Lewiston, Me. 04240, U.S.A.

LONGO, Luigi; Italian politician; b. 15 March 1900; university student 1920; Sec. of Piedmontese Communist Group which founded the Italian CP 1921; mem. Cen. Cttee. Young Communist Fed. 1921; del. to Fourth Congress of the Comintern 1922; Ed. L'Avanguardia (organ of Young Communist Fed.) 1923; arrested and imprisoned for political activities 1923-24; del. of Young Communists at Third Congress of Italian CP 1926; mem. Young Communists' Int. 1926-27; responsible for youth work at Foreign Centre of CP in Paris 1927; del. to Sixth Congress of Comintern 1928; illegal political activity in Italy; two years in Moscow 1932-34; Inspector-Gen. of Int. Brigades in Spain 1936-39; after end of Spanish war returned to France; imprisoned in France 1939-41; in Italy 1942-43; organized popular resistance to the Germans in Rome Sept. 1943; Vice-Commdr. of Volunteer Liberation Corps, Commdt.-Gen. "Garibaldi" Brigades; Deputy Constituent Assembly 1946, Nat. Assembly 1948, 1953, 1958, 1963, 1968; Deputy Sec.-Gen. of Italian CP 1945-64, Sec.-Gen. 1964, Chair. 1972-; U.S. Bronze Star; Stella d'Oro Garibaldina. *Publications:* Un popolo alla macchia 1947, Sulla via dell'insurrezione nazionale 1954, Le Brigate Internazionali in Spagna 1956, Revisionismo nuovo e antico 1957, Il miracolo economico italiano e la critica marxista 1962. *Address:* Partito Communista Italiano, Via delle Botteghe Oscure 4, 00186 Rome, Italy. *Telephone:* 684101.

LONGUET-HIGGINS, Hugh Christopher, M.A., D.PHIL., F.R.S., F.R.S.E.; British university professor; b. 11 April 1923, Lenham, Kent; s. of Henry H. L. Longuet-Higgins and Albinia Cecil Bazeley; brother of Michael Selwyn Longuet-Higgins (*q.v.*); ed. Winchester Coll., and Balliol Coll., Oxford; Research Fellow Balliol Coll. 1947-48; Research Assoc. Univ. of Chicago 1948-49; Lecturer and Reader in Theoretical Chem., Victoria Univ. of Manchester 1949-52; Prof. of Theoretical Physics King's Coll., London Univ. 1952-54; Fellow, Corpus Christi Coll. and Prof. of Theoretical Chem., Univ. of Cambridge 1954-67; Royal Soc. Research Prof., Univ. of Edinburgh 1967-74, Univ. of Sussex 1974-, Harrison Memorial Prize 1950; F.R.S. 1958; Foreign mem. American Acad. of Arts and Sciences 1961; Foreign Assoc. U.S. Nat. Acad. of Sciences 1968; Life Fellow, Corpus Christi Coll., Cambridge, Hon. Fellow, Balliol Coll., Oxford 1969; Dr. h.c. Univ. of York 1973. *Publications include:* about 150 papers in scientific journals. *Leisure interest:* music. *Address:* Centre for Research on Perception and Cognition, Univ. of Sussex, Falmer, Brighton, England. *Telephone:* 0273 606755.

LONGUET-HIGGINS, Michael Selwyn, M.A., PH.D., F.R.S.; British research scientist; b. 8 Dec. 1925, Lenham, Kent; s. of Henry H. L. Longuet-Higgins and Albinia Cecil Bazeley; brother of Hugh Christopher Longuet-Higgins (*q.v.*); m. Joan R. Tattersall 1958; two s. two d.; ed. Winchester Coll., Cambridge Univ; Research Fellow, Cambridge Univ. 1951-55, Commonwealth Fund Fellow, Scripps Inst., La Jolla, 1951-52; Research Scientist, Nat. Inst. of Oceanography 1954-67; Visiting Prof. M.I.T. 1958; Visiting Prof. Inst. of Geophysics, Univ. of Calif. 1961-62; Visiting Prof. Univ. of Adelaide 1963-64; Prof. of Oceanography, Oregon State Univ., Corvallis 1967-69; Royal Soc. Research Prof., Cambridge Univ. (joint appointment with Inst. of Oceanographic Sciences) July 1969-; Rayleigh Prize for mathematics, Cambridge Univ. 1950; Fellow, Royal Soc. 1963. *Publications:* Numerous contributions to scientific journals. *Leisure interests:* music, gardening, mathematical toys. *Address:* Department of Applied Mathematics and Theoretical Physics, Cambridge University, Silver Street, Cambridge; Institute of Oceanographic Sciences, Wormley, Godalming, Surrey; Gage Farm, Comberton, Cambridge, CB3 7DH, England (Home). *Telephone:* Comberton 2346 (Home).

LOOMIS, Cecil Edward; American businessman; b. 12 May 1906; ed. Ohio State Univ.; clerk, Ohio Fuel Gas Co. 1928-35; engineer, Columbia Gas System Service Corpn. 1935-50, Asst. Vice.-Pres. 1950, Vice-Pres., Dir. 1951-56, Sr. Vice-Pres. 1956-60, Pres. 1960-61, Vice-Chair. 1961-64, Chair. 1964-; Asst. Vice-Pres. Columbia Gas System Inc., New York 1950-51, Vice-Pres. 1951-56, Sr. Vice-Pres. 1956-60, Dir. 1956-, Pres. 1960, Vice-Chair. 1961-64, Chair. 1964-71; Dir. Columbia Hydrocarbon Corpn., Columbia Gas of New York Inc., United Fuel Gas Co., and numerous other cos.; mem. American Soc. of Mechanical Engineers, American Gas Assn. *Address:* 120 East 41st Street, New York, N.Y. 10017 (Office); 1 Winfields Road, Zionsville, Pa. 18092, U.S.A. (Home).

LOOMIS, Henry, A.B.; American broadcasting executive and fmr. government official; b. 19 April 1919, Tuxedo Park, N.Y.; s. of Alfred Lee Loomis and Ellen Holman Farnsworth Loomis; m. 1st Mary Paul Macleod 1946, two s. two d.; m. 2nd Jacqueline C. Williams 1974; ed. Harvard Univ. and Univ. of California; U.S. Navy 1940-45; Asst. to the Pres., M.I.T. 1947-50; Asst. to Chair. of Research and Devt. Bd., Dept. of Defense, Washington, D.C. 1950-51; Consultant, Psychological Strategy Bd., Washington, D.C. 1951-52; mem. Staff, Pres. Cttee. on Int. Information 1953; Chief, Office of Research and Intelligence, U.S. Information Agency, Washington, D.C. 1954-57; Staff Dir. to Special Asst. to Pres. for Science and Tech., White House 1957-58; Dir. Broadcasting Service (Voice of America), U.S. Information Agency, Washington, D.C. 1958-65; Deputy U.S. Commr. of Educ., Dept. of Health, Educ. and Welfare, Washington, D.C. 1965-66; Partner, St. Vincent's Island Co., New York 1966-69; Dep. Dir. U.S. Information Agency, Washington, D.C. 1969-72; Pres. Corpn. for Public Broadcasting 1972-; Rockefeller Public Service Award in Foreign Affairs 1963; Distinguished Service Award, U.S. Information Agency 1963. *Leisure interests:* sailing, hunting, fishing, skiing, photography. *Address:* 1111 16th Street, N.W., Washington, D.C. 20036; Middleburg, Va. 22117, U.S.A. (Home). *Telephone:* 202-293-6160 (Office); 703-687-8021 (Home).

LOOS, Anita; American writer; b. 26 April 1893; m. John Emerson 1919; ed. High School, San Diego, Calif.; Scenario writer with D. W. Griffith (five years), Douglas Fairbanks (three years), Constance Talmadge (two years). *Publications:* (novels) Gentlemen Prefer Blondes 1925, But Gentlemen Marry Brunettes 1928, (with John Emerson) The Whole Town's Talking, The Fall of Eve, Cherries are Ripe, The Social Register, A Mouse is Born 1950, This Brunette Prefers Work 1956, Gentlemen Still Prefer Blondes, No Mother to Guide Her 1961, A Girl Like I (autobiog.) 1966, Kiss Hollywood Goodbye 1974; (films) Red Headed Women, Blossoms in the Dust, I Married an Angel, The Pirate; (plays) Happy Birthday 1946, Gentlemen Prefer Blondes 1949, No Mother to Guide Her 1961, Mama Steps Out, They Met in Bombay, A Girl Like I 1966. *Address:* c/o Avon Books, 959 Eighth Avenue, New York 19, N.Y., U.S.A.

LOPES, Henri; Congolese politician and author; b. Sept. 1937, Léopoldville, Belgian Congo (now Kinshasa, Zaire); s. of Jean-Marie Lopes and Micheline Vulturi; m. Nirva Pasbeau 1961; one s. three d.; ed. France; Minister of Nat. Educ. 1968-71, of Foreign Affairs 1971-73; mem. Political Bureau, Congolese Labour Party 1973; Pres. Revolutionary Court of Justice April 1973; Prime Minister and Minister of Planning 1973-75, of Finance 1977-; Prix littéraire de l'Afrique noire 1972. *Publications:* Tribaliques (short stories), La Nouvelle Romance (novel), Learning to be (with others), Sans tam-tam (novel) 1977. *Address:* B.P. 535, Brazzaville, People's Republic of the Congo.

LOPES-GRAÇA, Fernando; Portuguese composer and writer; b. 17 Dec. 1906, Tomar; s. of Silverio Lopes-Graça and Emilia da Conceição Lopes-Graça; ed. Lisbon Conservatoire, Univs. of Lisbon, Coimbra and Paris; Professor, Instituto de Música (Coimbra) 1932-36, Acad. de Amadores de Música (Lisbon) 1940-54. *Compositions include:* two piano concertos 1940, 1953, five piano sonatas 1934, 1939, 1952, 1961, 1977, Glosas (piano) 1949-50, Cuatro Canciones de Federico García Lorca (for baritone and chamber instrumental ensemble) 1954, Trois danses portugaises pour orchestre 1941, Sinfonia per Orchestra 1944, Estelas Funerárias 1948, Suite Rústica

No. 1 (for Orchestra) 1950, 24 Preludes (piano) 1952-58, Concertino (for piano, brass, strings and percussion) 1956, História Trágico-Marítima, for baritone, fem. chorus and orch. 1943-60, Gabriela, Cravo ■ Canela (overture) 1960, Prelude and Fugue (violin solo) 1961, Canto de Amor ■ de Morte (orch.) 1961, Poema de Dezembro (orch.) 1961, Para uma Criança que vai Nascer (for strings) 1961, Mar de Setembro (cycle for voice and piano) 1962, Concertino for Viola and Orchestra 1962, In Memoriam Bela Bartok (8 suites for piano) 1959-64, String Quartet 1964, ■ Cantigas de Amigo (for voice and chamber instrumental ensemble) 1964, Four Sketches (for strings) 1965, Concerto da ■■■■■ col violoncello obbligato 1965, Quatorze Anotações (for string quartet) 1966, D. Duardos e Flérida (cantata-melodrama in two parts for narrator, mezzo-soprano, alto, tenor, chorus and orchestra) 1966-69, Prelúdio ■ Baileto, Partíta (for guitar) 1968, 1971, Four Pieces (for harpsichord) 1971, Requiem pelas vítimas do fascismo em Portugal (for soloists, chorus and orchestra) 1978. *Publications include:* Reflexões sobre ■ Música 1941, Introdução à Música Moderna 1942, Música ■ Músicos Modernos 1943, A Música Portuguesa e os ■■■ Problemas (Vol. I) 1944, (Vol. II) 1959, Talia, Euterpe ■ Terpsicore 1945, A Canção Popular Portuguesa 1954, Dicionário de Música (Vol. I) 1956, (Vol. II) 1958, Igor Stravinsky and Bela Bartok 1959, Musicália 1960, Nossa Companheira Música 1964, Páginas Escolhidas de Crítica ■ Estética Musical 1967, Disto ■ Daquilo 1973, A Música Portuguesa e os ■■■ Problemas (Vol. III) 1974, Um artista intervem, Cartas com alguma moral 1974, Escritos musicólogicas 1977, and translations of Rousseau, Mann, Keller, Mörike, Percy Buck, Alan Bush, Haskell, Romain Rolland, Balzac. *Address:* El Mio Paraiso, 2°, Ave. da República, 2775 Parede, Portugal. *Telephone:* 2472824.

LÓPEZ, Fernando; Philippine politician; b. 13 April 1904, Jaro, Iloilo; s. of Gov. Benito López and Presentacion Hofileña; m. María Salvación Javellana y Virto 1924; four ■ two d.; ed. Univ. of Santo Tomás; mem. Philippine Bar 1926; Mayor, Iloilo City 1945; Senator of Philippines 1947, Vice-Pres. 1949, Sec. Agric. and Natural Resources 1950, Senate Pres. Pro-Tempore 1958, 1960; Vice-Pres. of Philippines 1965-69, 1969-71; Sec. Agric. and Natural Resources 1970-71; Hon. LL.D., Manhattan Coll., New York; Special Grand Cordon of Most Noble Order of Crown of Thailand; Officer of Nat. Order of Vietnam; Gran Cruz of Orden de Isabel la Católica; Mil. Order of Christ, and other awards. *Leisure interests:* listening to music, swimming, movies, taking pictures. *Address:* 6 Flame Tree Place, Forbes Park, Makati Rizal; Penthouse, Chronicle Bldg., Meralco Avenue Pasig, Metro Manila, Philippines.

LÓPEZ, Salvador P.; Philippine journalist, diplomatist and educationist; b. 27 May 1911, Currimao, Ilocos Norte; s. of Bernabe P. López and Segunda Sinang; m. Maria Luna 1936; two d.; ed. Univ. of the Philippines; columnist, Magazine Ed. and Assoc. Ed. Philippines Herald 1933-41; Radio News Commentator 1940-41; Philippine Army Service 1942-46; Diplomatic Service 1946-; Adviser on Political Affairs, Philippine Mission to UN 1946-48, Sr. Adviser 1948-49, Chargé d'affaires a.i. 1950-52, Acting Perm. Rep. to UN 1953-54; Minister to France 1955-56, concurrently Minister to Belgium and Netherlands 1955-59, to Switzerland 1957-58, Amb. to France 1956-62, concurrently Perm. Rep. to UNESCO 1958-62, Minister to Portugal 1959-62; Under-Sec. of Foreign Affairs, Philippines 1962-63; Sec. of Foreign Affairs 1963-64; Perm. Rep. to UN 1964-68, concurrently Amb. to U.S.A. 1968-69; Pres. Univ. of the Philippines 1969-75, Prof. 1975-; Adviser to Pres. of Philippines 1975-; numerous decorations and hon. degrees. *Publications:* Literature and Society 1951, Freedom of Information 1953, English for World Use 1954, The United States— Philippines Colonial Relationship 1966, Human Rights and the Constitution 1970, The Philippines Under Martial Law 1974, New Directions in Philippine Foreign Policy 1975, Reflections on Human Rights in the Philippines 1977. *Leisure interests:* classical music, orchids. *Address:* c/o University of the Philippines, Quezon City, Philippines. *Telephone:* 97-39-10.

LÓPEZ ARELLANO, Gen. Oswaldo; Honduran air force officer and politician; b. 30 June 1921; ed. School of Mil. Aviation and Flight Training, U.S.A.; joined armed forces 1939, Lieut. 1947, Col. 1958; Chief of Armed Forces 1956-75; ■■■ Mil. Junta, Chief of Mil. Govt. of Honduras, Minister of Nat. Defence, Minister of Public Security 1963-66; Pres. of Honduras 1966-71, 1972-75; several decorations. *Address:* c/o Oficina del Presidente, Tegucigalpa, D.C., Honduras.

LÓPEZ BRAVO, Gregorio; Spanish politician; b. 19 Dec. 1923, Madrid; s. of Sotero López and Consuelo Bravo; m. María Angeles Velasco Schmidt; nine c.; ed. Escuela de Ingenieros Navales, Madrid; fmr. Dir. Constructora Naval Co.; Dir.-Gen. of Foreign Trade 1959-60; Dir.-Gen. Spanish Inst. of Foreign Currency 1960-62; mem. Atomic Energy Bd.; Adviser, Instituto Nacional de Ingenieros; mem. Cortes; Minister of Industry 1962-69; Minister of Foreign Affairs 1969-73; Chair. Ministerial Council OECD, Paris 1973; Chair. Crinavis; mem. Inst. of Naval Architects (U.K.). *Address:* c/o Ministerio de Asuntos Exteriores, Madrid, Spain.

LÓPEZ DE LETONA Y NÚÑEZ DEL PINO, José María; Spanish politician; b. 26 Nov. 1922, Burgos; m.; three c.; Road Engineer until 1949; Technical Eng. Dir. Vías y Construcciones S.A. 1952-54, Dir.-Gen. 1954-60; associated with Westinghouse Air Brake Co. and affiliated cos. in Spain and Europe 1960-65; Sub-Commissary to Social and Econ. Devt. Plan 1966; Minister of Industry 1969-74; Gov. Bank of Spain 1976-78; mem. Cortes; Chair. Empresa Nacional del Petróleo; ■■■ several industrial corpns.; Grand Cross, Carlo III, Isabel la Católica, Merito Civil. *Address:* c/o Banco de España, Alcalá 50, Madrid 14, Spain.

LÓPEZ-GARCIA, Antonio; Spanish artist; b. 1936, Tomelloso; m. Maria Moreno; ed. Escuela de Bellas Artes de San Fernando, Madrid; travelled in Italy and Greece 1955, 1958; one-man exhbns. in Madrid 1957, 1961, Staempfli Gallery, New York 1965, 1968-69, Paris, Turin 1972; group exhbns. in Madrid 1955, 1964, World Fair Exhbn., New York 1964, Carnegie Int., Pittsburgh 1965, 1967, European tour of Contemporary Spanish Art exhbn. 1968, 1969; Prize of Diputación de Jaén 1957, Prize of Fundación Rodriguez Acosta 1958, Molino de Oro Prize of Exposición Regional de Valdepeñas 1959. *Address:* c/o Marlborough Fine Art Ltd., 6 Albemarle Street, London, W.1, England.

LÓPEZ MICHELSEN, Alfonso; Colombian lawyer and politician; b. 30 June 1913, Bogotá; s. of Alfonso López Pumarejo (Pres. of Colombia 1934-38, 1942-45) and María Michelsen; m. Cecilia Caballero de López; ed. London, Brussels, Colegio Mayor de Nuestra Señora del Rosario, Bogotá, Santiago (Chile) and Georgetown Univ., Washington, D.C., U.S.A.; fmr. Teacher at Univ. Nacional de Colombia, Univ. Libre de Bogotá and Colegio Mayor de Nuestra Señora del Rosario; legal practice; spent seven years ■■ emigré in Mexico 1952-58; later an Ed. of El Liberal (weekly); mem. Chamber of Deputies 1960-62, 1962-66; Founder, Leader of moderate wing of Movimiento Revolucionario Liberal 1958-67; joined Partido Liberal 1967; Gov. of César Dept. 1967-68; Minister of Foreign Affairs 1968-70; Pres. of Colombia 1974-78. *Publications:* Introduction to the Study of the Colombian Constitution 1942, Benjamín Constant or the Father of Bourgeois Liberalism 1946, Colombian Inquiries, The Elected (novel). *Address:* c/o Oficina del Presidente, Bogotá, Colombia.

LÓPEZ OTERO, Modesto; Spanish architect; b. 1885. Medallist of Fine Arts Exhbn., Madrid 1912; First Prize winner in competition for monument of "Las Cortes de Cadiz"; Hon. Dir. Spanish School of Architecture and of Acad. of Fine Arts; Architect in charge of new Univ. City, Madrid; mem. Acad. of History, Nat. Council of Architecture, Nat. Council of Educ., Int. Cttee. of Architects. *Publications:* Influence of Spanish Architecture in the Spanish Mission in California, Conservation of Monuments. *Address:* Paseo de la Castellana 102, Madrid, Spain.

LÓPEZ-PORTILLO Y PACHECO, José; Mexican lawyer and politician; b. 16 June 1920, Mexico City; s. of José López-Portillo y Weber; m. Carmen Romano; one s. two d.; ed. Law Nat. Faculty, Univ. Nacional Autónoma de México, Univ. de Chile; Prof. of Gen. Theory on the State, Univ. Nacional Autónoma de México 1954, Assoc. Prof. of Political Sciences 1956-58; Founder Prof. in Admin. Sciences Doctorate, Comm. School of the Nat. Polytechnical Inst. 1961; with Partido Revolucionario Institucional (PRI) 1959-64; Technical Assoc., Head Office of Ministry of Patrimony 1960; Coordinator Border Urban Devt. Cttee. 1962; mem. Intersecretarial Comm. for Nat. Devt. 1966; Under-Sec. of the Presidency 1968; Under-Sec. Ministry of Patrimony 1970; Gen. Dir. Electricity Fed. Comm. 1972-73; Sec. for Finances and Public Credit 1973-75; Pres. of Mexico Dec. 1976-; fmr. Gov. for Mexico, IMF; Order Nacional do Cruzeiro do Sul (Brazil) 1978. *Publications:* Valoración de la Estatal, Génesis y Teoría del Estado Moderno, Quetzalcoatl, Don Q. *Address:* Palacio de Gobierno, México, D.F., Mexico.

LÓPEZ RODÓ, Laureano; Spanish lawyer, government official and diplomatist; b. 18 Nov. 1920, Barcelona; s. of Laureano López and Maria Teresa Rodó; ed. Univ. de Barcelona, Univ. de Madrid; Prof. Admin. Law, Univ. de Santiago de Compostela 1945-53, Univ. de Madrid 1953-74; Technical Sec.-Gen. Office of the Pres. 1956-62; Pres. and founder Escuela Nacional de Administración Pública; Commr. for the Devt. Plan 1962, also Minister without Portfolio 1965-73; Minister for Foreign Affairs 1973-74; Amb. to Austria 1974-77; Deputy Pres. Int. Inst. of Admin. Sciences; Councillor Superior Council for Scientific Investigation; M.P.; del. to numerous int. congresses; mem. Interparl. Union, Real Academia de Ciencias Morales y Políticas; Dr. h.c. (Univ. de Coimbra, Portugal); several decorations. *Address:* Calle de Alcalá 73, Madrid, Spain.

LORA TAMAYO, Manuel; Spanish chemist and politician; b. 1904, Jerez de la Frontera; m. Amelia D'Ocon; eleven c.; Prof. of Organic Chem., Seville 1933-43; fmr. Prof. of Organic Chem., Madrid; Minister of Educ. 1962-68; Pres. Higher Council for Scientific Research 1967; Dir. Nat. Centre of Organic Chem.; mem. Royal Acad. of Science, Acad. of Pharmacy; mem. Nat. Acad. of Exact, Physical and Natural Sciences 1968-, Pres. 1974-; Hon. mem. Pontificia Acad. Rome, Acad. of Science Lisbon, Heidelberg, Argentina, Puerto Rico; Hon. mem. various scientific socs.; fmr. Pres. Royal Spanish Soc. of Physics and Chem.; mem. Int. Union Pure and Applied Chem.; Dr. h.c. Paris. *Address:* Universidad de Madrid, Madrid, Spain.

LORANT, Stefan; American author and editor; b. 22 Feb. 1901, Budapest, Hungary; two s.; started career as film cameraman in Vienna; mem. Editorial Staff Das Magazin Berlin 1925; Ed. Bilder Courier Berlin 1925, Ufa Magazin Berlin 1925-26, Münchner Illustrierte Presse 1926-33; placed in "protective custody" following Hitler's accession to power; upon release came to England where he founded Weekly Illustrated 1934, Lilliput (Ed. 1937-40), Picture Post (Ed. 1938-40); now in U.S.A.; LL.D. (Knox Coll.), M.A. (Harvard). *Publications:* I was Hitler's Prisoner 1935, Chamberlain and the Beautiful Llama 1940, The United States (ed.) 1940, Lincoln: His Life in Photographs 1941, The New World 1946, F.D.R.: ■ pictorial biography 1950, The Presidency 1951, Lincoln, a Picture Story of Life 1952, The Life of Abraham Lincoln 1954, The Life and Times of Theodore Roosevelt 1959, Pittsburgh: The Story of an American City (revised, Bicentennial edn.) 1964, The New World: The First Pictures of America (revised, enlarged edn.) 1965, Lincoln, the Picture Story of His Life (revised and enlarged edn.) 1969, Sieg Heil! An illustrated history of Germany from Bismarck to Hitler 1974, The Glorious Burden: The American Presidency from George Washington to James Earl Carter Jr. 1976, Pete: The Life of Peter F. Flaherty 1978. *Address:* "Farview", Lenox, Mass., U.S.A. *Telephone:* 413-637-0666.

LOREN, Sophia; Italian actress; b. 20 Sept. 1934, Rome; d. of Riccardo Scicolone and Romilda Villani; m. Carlo Ponti (*q.v.*) 1957; two s.; ed. Scuole Magistrali Superiori; first screen appearance ■ an extra in Quo Vadis; has appeared in many Italian and other films including E Arrivato l'Accordatore 1951, Africa sotto i Mari (first leading role), La Tratta delle Bianche, La Favorita 1952, Aida 1953, Il Paese dei Campanelli, Miseria ■ Nobiltà, Il Segno di Venere 1953, Tempi Nostri 1953, Carosello Napoletano 1953, L'Oro di Napoli 1954, Attila 1954, Peccato che sia una canaglia, La Bella Mugnaia, La Donna del Fiume 1955, Boccaccio 1970, Matrimonio All'Italiana; and in the following American films: The Pride and the Passion 1955, Boy on a Dolphin, Legend of the Lost 1956, Desire Under the Elms 1957, That Kind of Woman 1958, Houseboat 1958, The Key 1958, The Black Orchid 1959, It Started in Naples, Heller in Pink Tights 1960, The Millionairess 1961, Two Women 1961, El Cid 1961, Madame Sans Gêne 1962, Yesterday, Today and Tomorrow 1963, The Fall of the Roman Empire 1964, Lady L 1965, Operation Crossbow 1965, Judith 1965, A Countess from Hong Kong 1965, Arabesque 1966, More than ■ Miracle 1967, The Priest's Wife 1970, Sunflower 1970, Hot Autumn 1971, Man of La Mancha 1972, Brief Encounter (TV) 1974, The Verdict 1974, The Voyage 1974, The Cassandra Crossing 1977, A Special Day 1977, Firepower 1978, Brass Target 1979; Venice Festival Award for The Black Orchid 1958, Cannes Film Festival Award for best actress (Two Women) 1961. *Publication:* Living and Loving (autobiography) 1978. *Address:* Chalet Daniel Burgénstock, Luzern, Switzerland.

LORENTE DE NÓ, Rafael, M.D.; American (naturalized) physiologist; b. 8 April 1902, Zaragoza, Spain; s. of Francisco Lorente and Maria de Nó (de Lorente); m. Hede Birfield 1931; one d.; ed. Univ. of Madrid; Asst. Inst. Cajal, Madrid 1921-29; Head, Dept. of Otolaryngology, Valdecilla Hosp. Santander 1929-31; went to U.S. 1931; neuroanatomist, Cen. Inst. for the Deaf, St. Louis 1931-36; Assoc. physiologist, Rockefeller Inst., New York 1936-38, Assoc. mem. 1938-41, mem. 1941-42; Visiting Prof. Univ. of Calif. (Los Angeles) 1972-; mem. Nat. Acad. of Sciences, American Physiological Soc., American Assen. of Anatomists, American Neurological Soc.; hon. mem. American Otological Soc. *Publications:* A Study of Nerve Physiology 1947 and articles in scientific journals. *Address:* 32-36 Rehabilitation Center, University of California School of Medicine, Los Angeles, Calif. 90024, U.S.A.

LORENTZ, Stanisław, PH.D.; Polish art historian and museum administrator; b. 28 April 1899, Radom; s. of Karol Lorentz and Maria Schoen; m. Irene Nasfeter 1927; two d.; ed. Warsaw Univ.; Lecturer, Vilno Univ. 1929-35, Warsaw Univ. 1937-39; Dir. Nat. Museum, Warsaw 1935-; Dir.-in-Chief, Museums and Conservation of Monuments Dept., Ministry of Culture and Art 1945-52; Extraordinary Prof. of Art History, Warsaw Univ. 1947-51, Prof. 1951-72, Emer. 1972-; M.P. 1965-69; Pres. Centre Int. d'Études pour la Conservation et la Restoration des Biens Culturaux 1965-70; Pres. Polish Nat. Cttees. of Int. Council of Museums and of Int. Council of Monuments and Sites, mem. Int. Exec. Cttee. of ICOM; Pres. Int. Consultative Cttee. of ICOMOS; Vice-Pres. Polish Nat. UNESCO Cttee.; Pres. Soc. of Friends of Warsaw; Corresp. mem. Polish Acad. of Sciences 1952-64, mem. 1964-; mem. Acad. of Fine Arts, Venice 1955, Bordeaux 1961; Hon. mem. Int. Union of Art Historians; Dr. h.c. (Bordeaux) 1961, (Nancy) 1966; Herder Prize 1964, Polish State Prize 1965, City of Kiel Cultural Prize (Fed. Repub. of Germany) 1973, hon. Gold Award of League for Friendship of Nations (G.D.R.) 1978; Gold Cross of Merit 1936, Virtuti Militari 1939, Commdr.'s Cross with Star of Order Polonia Restituta 1947, Order of the Banner of Labour 1st Class 1955, Order of the Builders of People's Poland 1969; also has other Polish and foreign awards from Italy, France, Mexico, etc. *Publications:* Jan Krzysztof Glaubitz architekt Wileński XVIII 1937, Natolin 1948, Victor Louis à Varsovie 1958, Relazioni artistiche fra l'Italia e la Polonia 1961, Jabłonna 1961, What remained of the Royal Palace in Warsaw 1971, Guide to Polish Museums and Collections 1971, 1974, and numerous other works in Polish, French and English. *Address:* Muzeum Narodowe, Aleje Jerozolimskie 3, 00-495 Warsaw, Poland. *Telephone:* 21-10-36.

LORENTZEN, Annemarie Røstvik; Norwegian politician; b. 23 Sept. 1921, Grense Jakobselv, Finnmark; teacher, Hammerfest Secondary School 1947-49; mem. Hammerfest Municipal Council 1951-63; Chair. W. Finnmark Labour Party 1961-65; mem. Labour Party Nat. Exec. 1961-69; mem. Norwegian Broadcasting Council 1963-70, many parl. cttees.; mem. Storting (Parl.) for Finnmark 1961-; mem. Standing Cttee. on Defence 1969-73; Minister of Communications 1973-76, of Consumer Affairs and Govt. Admin. 1976-78; Amb. to Iceland 1978-; Labour. *Address:* Norwegian Embassy, Fjólugafa 17, Reykjavik, Iceland.

LORENZ, Konrad, D.MED., ET. PHIL.; Austrian ethologist; b. 7 Nov. 1903, Vienna; s. of Adolf and Emma (née Lecher) Lorenz; m. Margarethe Gebhardt 1927; one s. two d.; ed. Univ. of Vienna; Asst. Inst. of Anatomy, Vienna 1928-35; Lecturer in Comparative Anatomy and Animal Psychology, Vienna 1937-40; Head, Dept. of Psychology, Königsberg 1940-45; Physician in the German Army 1942-44; Dir. Max Planck Inst. for Physiology of Behaviour 1961-73; Dir. Dept. for Animal Sociology, Inst. for Comparative Ethology, Austrian Acad. of Sciences 1973-; Foreign mem. Royal Soc. (U.K.); Grosses Verdienstkreuz der Bundesrepublik Deutschland 1972, Bayerische Verdienstorden 1974; UNESCO Kalinga Prize 1970; shared Nobel Prize for Physiology or Medicine (with Dr. Nikolaas Tinbergen and Prof. Karl von Frisch, (*q.v.*) for studies of animal behaviour 1973. *Publications:* King Solomon's Ring 1952, Man Meets Dog 1954, Das Sogenannte Böse 1963, Über tierisches und menschliches Verhalten 1965, Evolution and Modification of Behaviour 1965, On Aggression 1966, Studies in Animal and Human Behaviour I 1969, II 1971, Man and Animal 1972, Civilized Man's Eight Deadly Sins 1974, Die Ruckseite des Spiegels 1974, Behind the Mirror 1977. *Address:* Institut für Vergleichende Verhaltensforschung, Abt. 4 Tiersoziologie, 3422 Altenberg, Adolf-Lorenz-Gasse 2, Austria.

LORIDAN, Walter, DR. POL. SC.; Belgian diplomatist; b. 22 Feb. 1909, Menin; m. Marie Louise Sender 1965; one s. one d.; ed. Brussels Univ.; Sec. Belgian Legation, Warsaw 1936; Chargé d'Affaires, Spain 1937-39, Mexico 1940-43; Personal Asst. to the Minister of Foreign Affairs 1944-47; Prof. Brussels Univ. 1945; Dir.-Gen. Political Dept., Ministry of Foreign Affairs 1948-51; Minister to Mexico 1951-54; Amb. to Mexico 1954-55; Amb. to U.S.S.R. 1955-59; Perm. Rep. to UN 1959-65; Amb. to German Fed. Repub. 1965-69; Amb. to U.S.A. 1969-74; Hon. Amb. of Belgium; Pres. Belgian Nuclear Forum. *Address:* 5 rue du Batty, 1328 Ohain, Brussels, Belgium. *Telephone:* 6332844.

LOSEY, Joseph, B.A., M.A.; American film and theatre director; b. 14 Jan. 1909, La Crosse, Wis.; s. of Joseph Walton and Ina Higbee Losey; m. four times; two s.; ed. Dartmouth Coll., New Hampshire, and Harvard Graduate School of Arts and Science; freelance journalist 1931; stage man., later theatre producer-dir., Broadway 1932-40; dir. of radio documentaries 1938-; film dir. 1938-; settled in U.K. 1955; numerous film awards; Hon. D. Hum. Litt., Darmouth Coll., U.S.A. 1973; Chevalier Ordre des Arts et des Lettres 1968. *Films include:* A Child went Forth 1941, The Boy with Green Hair 1948, The Lawless (English title The Dividing Line) 1949, The Prowler 1950, M 1950, The Big Night 1951, The Sleeping Tiger 1954, Time Without Pity 1956, Chance Meeting (English title Blind Date) 1959, The Criminal 1960, The Damned 1961, The Servant 1963, King and Country 1964, Modesty Blaise 1965, Accident 1966, Boom 1967, Secret Ceremony 1968, Figures in ■ Landscape 1970, The Go Between (Grand Prix, Cannes Film Festival 1972) 1970, The Assas-

sination of Trotsky 1972, A Doll's House 1973, Galileo 1974, The Romantic Englishwoman 1975, Mr. Klein (French Cinema Prize) 1976, The Southern Routes 1978, Don Giovanni 1978; *plays include:* Galileo, The Wooden Dish. *Leisure interests:* teaching, work, walking. *Address:* c/o Georges Beaume, 5 quai Malaguais, 75006 Paris, France.

LOSHCHENKOV, Fyodor Ivanovich; Soviet politician; ed. Moscow Inst. of Aviation and CPSU Cttee. Higher Party School; industrial worker 1932-36; Soviet Army service 1936-38; Student 1938-43; Engineer 1943-46; mem. CPSU 1943-; Party Official 1946-61; First Sec. Yaroslavl Regional Cttee. CPSU 1961-; Cand. mem. CPSU Cen. Cttee. 1961-76, [illegible] 1976-; Deputy to U.S.S.R. Supreme Soviet 1962-; [illegible] Comm. for Industry, Soviet of the Union. *Address:* Yaroslavl Regional Committee, Communist Party of the Soviet Union, Yaroslavl, U.S.S.R.

LOSONCZI, Pál; Hungarian politician; b. 18 Sept. 1919, Bolhó, County Somogy; agricultural labourer; mem. CP 1945-; set up Red Star Co-operative Farm, Barcs 1948; MP 1953-; Minister of Agric. 1960-67; Chair. Nat. Council of Co-operative Farms 1965-67; Pres. of Presidential Council (Head of State) 1967-; mem. Cen. Cttee. Hungarian Socialist Workers' Party, Political Cttee. 1975-; mem. Presidium of Nat. Council of Patriotic People's Front; Kossuth Prize 1956; Hero of Socialist Labour and Order of Hungarian People's Repub. 1954. *Address:* The Presidential Council, H-1357 Budapest, Kossuth tér, Hungary. *Telephone:* 121-754.

LOTMAN, Yuriy Mikhailovich; Soviet scholar and structuralist; b. 1922, Leningrad; ed. Leningrad Univ.; Professor of Russian literature at Tartu (fmrly. Dorpat) State Univ., Estonian S.S.R. 1963-; Leader of Semiotics Summer Schools 1962, 1964, 1968, 1970. *Publications:* Lectures on Structural Poetics 1964 (Eng. trans. 1968); The Structure of the Literary Text 1970 (German trans. 1973, French 1973, English 1975), Pushkin's Novel in Verse "Eugene Onegin" 1975, Semiotics of Film 1978; over 100 articles and works on eighteenth- and early nineteenth-century Russian literature and on structuralism and semiotics. *Address:* Tartu State University, Tartu, Ülikooli 18, Estonia, U.S.S.R.

LOTON, Brian Thorley, B.MET.E.; Australian business executive; b. 17 May 1929, Perth; s. of late Sir Thorley Loton; m. Joan Kemelfield 1956; two s. two d.; ed. Hale School, Perth, Trinity Coll., Melbourne Univ.; started [illegible] Cadet, Broken Hill Pty. Co. Ltd. 1954, Tech. Asst. to Production Superintendent 1959, Asst. Chief Engineer 1961, Gen. Man. Planning and Devt. 1969, Dir. 1969-; Gen. Man., Newcastle Steelworks 1970, Exec. Gen. Man. Steel Div. 1973, Chief Gen. Man. 1977; Dir. Australian Iron and Steel Ltd., Australian Wire Industries Pty. Ltd., Hematite Petroleum Pty. Ltd., Dampier Mining Co. Ltd., Groote Eylandt Mining Co. Pty. Ltd., Mount Newman Mining Co. Pty Ltd., Tasmanian Electro Metallurgical Co. Pty. Ltd., BHP-GKN Holdings Ltd., BHP Int. Holdings Ltd., Woodside Petroleum Ltd., Queensland Coal Mining Co. Ltd.; Deputy Chair. Dept. Defence Industry Cttee.; mem. Faculty of Eng., Melbourne Univ., Bd. of Man. Australian Graduate School of Man., Australian Manufacturing Council, Australian Science and Tech. Council, Australian Mining Industry Council; mem. Australasian Inst. of Mining and Metallurgy, A.I.M.E. (U.S.A.); Fellow A.I.M., Inst. of Engineers. *Address:* c/o P.O. Box 86A, Melbourne, Victoria, Australia 3001. *Telephone:* 60-0701.

LOTZ, Kurt; German business executive; b. 18 Sept. 1912, Lenderscheid; m. Elizabeth Lony; two s. one d.; ed. August-Vilmar-Schule, Homberg; joined Brown Boveri and Cie. 1946, [illegible] of Man. Bd. 1957, Chair. of Man. Bd. 1958; mem. Bd. of Dirs. A. G. Brown Boveri & Cie., Baden, Switzerland (parent company) 1961, Del. [illegible] Bd. of Dirs. 1963; Deputy Chair. Man. Bd. Volkswagenwerk AG 1967-68, Chair. 1968-71; Hon. Senator Heidelberg Univ.; Dr. rer. pol. h.c. (Wirtschaftshochschule, Mannheim) 1962, Hon. Prof. Brunswick Tech. Univ. 1970. *Address:* 69 Heidelberg, Ludolf-Krehl-Strasse 1935, Federal Republic of Germany. *Telephone:* 06221-40785.

LOUBSER, J. G. H., B.SC.(ENG.).; South African mechanical engineer; b. 14 Jan. 1920, Koeberg, Cape Prov.; s. of late Dr. M. M. Loubser; m. Maria Johanna Catharina Du Preez 1946; one s. two d.; ed. Univ. of the Witwatersrand; joined South African Railways 1942; Chief Stores Supt. 1962-64, Asst. Chief Mechanical Engineer 1964-66, Chief Mechanical Engineer 1966-68, Head, Planning and Productivity 1968, Deputy Gen. Man. 1969-70, Gen. Man. 1970-; mem. Prime Minister's Econ. and Planning Advisory Councils; mem. Energy Policy Cttee.; full mem. S.A. Acad. for Arts and Science; Councillor S.A. Council for Professional Engineers, S.A. Bureau of Standards; senior mem. Engineers' Assn. of South Africa, Pres. 1971; mem. American Assn. of Mechanical Engineers; Hon. Prof. Rand Afrikaans Univ.; D. Eng. h.c. (Univ. of Stellenbosch), D. Econ. and Man. Sciences h.c. (Rand Afrikaans Univ.); A. H. Grey Medal, South African Inst. of Foundrymen 1974, W. A. Agnew Award, Inst. of Mechanical Engineers, London 1976, Tienie Louw Award for outstanding contributions in South African business field 1978, Gold Medal, Public Relations Inst. of South Africa 1978. *Leisure interests:* home workshop, photography, high-fidelity records. *Address:* Room 1114, Paul Kruger Building, Johannesburg; Home: 18 Daventry Road, Bryanston, Transvaal, Republic of South Africa. *Telephone:* 713-2100 (Office); 706-3720 (Home).

LOUCHHEIM, Katie S.; American government official; b. 28 Dec. 1903, New York; d. of Leonard B. and Adele Scofield (née Joseph); m. Walter C. Louchheim 1926; two d.; ed. Rosemary Hall, and Columbia Univ.; Asst. to Dir. of Public Information, UNRRA 1942-46; Democratic Nat. Committeewoman D.C. 1956-61; Dir. Women's Activities, Democratic Nat. Cttee. 1953-60; Vice-Chair. Democratic Nat. Cttee. 1956-60; Special Consultant to Promote the Role of Women in Int. Cultural Exchange Matters, State Dept. 1961-62; Deputy Asst. Sec. of State for Public Affairs 1962-63; mem. Defense Advisory Cttee. on Women in the Armed Services 1955-62; Deputy Asst. Sec. of State for Community Advisory Services 1964-66, for Educ. and Cultural Affairs 1966-69; American Nat. Red Cross 1966-; mem. Arthur and Elizabeth Schlesinger Library [illegible] History of Women in America, Radcliffe Coll. 1964-; mem. First Lady's Cttee. on Beautification 1965-68, Arts Council, M.I.T. 1974, Visiting Comm., School of Foreign Service, Georgetown; Chair. Fed. Woman's Award 1962-68; U.S. mem. Exec. Bd. with rank of Amb., UNESCO, Paris 1968-69; Hon. D.Lit. Drexel Inst. of Technology 1964; Hon. D.Hum.Litt. Franklin Pierce Coll. 1967. *Publications:* With or Without Roses (poems) 1966, By the Political Sea 1970. *Leisure interest:* writing poetry and articles for magazines. *Address:* 2824 O Street, N.W., Washington, D.C. 20007, U.S.A. *Telephone:* 212-337-1096.

LOUDON, Jonkheer John Hugo; Netherlands oil executive and company director; b. 27 June 1905, The Hague; s. of Jonkheer Hugo Loudon and Anna P. A. van Marken; m. Baroness Marie Cornelie van Tuyll [illegible] Serooskerken 1931; three s.; ed. Univ. of Utrecht; joined N.V. De Bataafsche Petroleum Mij., The Hague 1930, served Venezuela, The Hague, U.S.A. 1930-44; Gen. Man. Royal Dutch/Shell interests, Venezuela 1944-47; Man. Dir. Royal Dutch Petroleum Co., N.V. De Bataafsche Petroleum Mij., Shell Petroleum Co. Ltd. 1947; Pres. Royal Dutch Petroleum Co. 1952-65, Chair. 1965-77, Dir. 1977-; Chair. Board Shell Oil Co. U.S.A. 1957-65; Chair. Shell Petroleum N.V. 1966-, Int. Advisory Cttee., Chase Manhattan Bank 1965-; Chair. Bd. Atlantic Inst. for Int. Affairs, Paris, European Inst. of Business Admin., Fontainebleau, Netherlands Econ. Inst., Rotterdam; Chair. European Advisory Council Ford Motor Co.; Dir. Russell Reynolds Assn. Inc., New York, Orion Bank Ltd., London; mem. Bd. of Trustees, World Wildlife Fund 1966-, Exec. Council 1968-, now Pres.; Hon K.B.E. (U.K.), Kt., Order of the Netherlands Lion, Grand Officer, Order of Orange-Nassau, Officer, Légion d'honneur, and other decorations. *Leisure interest:* golf. *Address:* 48 Lange Voorhout, 2514 EG The Hague (Office); Koekoeksduin, 5 Vogelenzangseweg, 2111 HP Aerdenhout, The Netherlands (Home); *Telephone:* (070) 453755 (Office); (023) 245924 (Home).

LOUGHEED, (Edgar) Peter, LL.B., M.B.A., Q.C.; Canadian politician; b. 26 July 1928, Calgary, Alberta; s. of late Edgar D. and Edna (Bauld) Lougheed; m. Jeanne Rogers 1952; two s. two d.; ed. public and secondary schools, Calgary, Univ. of Alberta and Harvard Univ. Sec., Mannix Co. 1956, Gen. Counsel 1958, Vice-Pres. 1959, Dir. 1960-62; private legal practice 1962-; Provincial Leader, Progressive Conservative Party of Alberta 1965-; mem. Alberta Legislative Assembly 1967-; Leader of Opposition 1967-71; Premier of Alberta Sept. 1971-. *Leisure interests:* skiing, golf, the symphony. *Address:* 307 Legislative Building, Edmonton, Alberta T5K 2B6, Canada (Office). *Telephone:* 427-2251 (Office).

LOUGHRAN, James; British conductor; b. 30 June 1931, Glasgow; s. of James and Agnes (née Fox) Loughran; m. Nancy (née Coggon) 1961; two s.; ed. Glasgow, Bonn, Amsterdam and Milan; Assoc. Conductor, Bournemouth Symphony Orchestra 1961-65; debut Royal Opera House, Covent Garden 1964; Principal Conductor BBC Scottish Symphony Orchestra 1965-70; Prin. Conductor and Musical Adviser, Hallé Orchestra 1970-; debut New York Philharmonic with Westminster Choir 1972; Prin. Conductor Bamberg Symphony Orchestra 1979; Fellow Royal Northern Coll. of Music 1976; First Prize, Philharmonia Orchestra Conducting Competition 1961. *Leisure interest:* unwinding. *Address:* Hallé Concerts Society, 30 Cross Street, Manchester, England. *Telephone:* 061-834-8363.

LOUIS, Pierre, D. ÈS L.; French professor and university official; b. 1 Aug. 1913; m. Andrée Bouillon 1940; two s. one d.; ed. Lycée

Henri IV, Univ. of Paris and Fondation Thiers; fmr. Dir. of Studies, Faculty of Letters, Rennes, Faculty of Letters, Lyon; fmr. Prof., Faculty of Letters, Lyon; fmr. Rector, Acad. of Clermont-Ferrand; Rector, Acad. of Lyon 1960-; Conseiller d'Etat en service extraordinaire; Officier de la Légion d'honneur, Commdr., Ordre des Palmes académiques, Commdr. de l'Ordre nat. du Mérite. *Publications:* works on Aristotle. *Address:* 18 Rue Guilloud, 69003 Lyon, France. *Telephone:* 78-53-51-73.

LOULY, Lieut.-Col. Mohamed Mahmoud Ould Ahmed; Mauritanian army officer and politician. Minister for Control and Investigation July 1978-Jan 1979, in charge of the Perm. Secr. of the Mil. Cttee. for Nat. Recovery (CMRN) Jan.-March 1979, for the Civil Sevice and Higher, Technical and Vocational Training March-May 1979; President of Mauritania May 1979-. *Address:* Office du Président, Comité de Redressement National, Nouakchott, Mauritania.

LOUW, Adriaan, B.SC.; South African mining executive; b. 26 Nov. 1920, Pretoria; s. of late Dr. and Mrs. A. H. Louw; m. E. Rosemarie Philcox 1947; two s.; ed. Univ. of Witwatersrand; served as pilot, S.A. Air Force, World War II; Gen. Man. West Driefontein Gold Mining Co. Ltd. 1961-62; Consulting Engineer, Gold Fields of South Africa Ltd. 1963-64, Man. Head Office 1964-65; currently Chair. of Gold Fields of S.A. Ltd., Gold Fields Mining and Devt. Ltd. and Gold Fields S. A. Holdings Ltd., West Driefontein Gold Mining Co. Ltd.; Dir. Consolidated Gold Fields Ltd., East Driefontein Gold Mining Co. Ltd., numerous other mining cos., South African Mutual Life Assurance Soc., Standard Bank Investment Corpn.; mem. S.A. Inst. of Mining and Metallurgy 1963, Council of Chamber of Mines of S.A. *Leisure interests:* golf, tennis, swimming. *Address:* Gold Fields of South Africa Ltd., P.O. Box 1167, Johannesburg 2000; 16 Fife Avenue, Clynton (Hurlingham), Sandton 2196, Republic of South Africa (Home). *Telephone:* 836-0913, 838-8381 (Office); 783-4172 (Home).

LOUW, Dr. Martinus Smuts (Tinie); South African businessman; b. 15 Aug. 1888, Ladismith, Karoo; ed. Stellenbosch Univ.; teacher, Pietermaritzburg, Ladybrand, later Vice-Prin.; teacher in Paarl; joined South African Nat. Life Assurance Co. Ltd. (S.A.N.L.A.M.) 1918 as asst. to actuary; attended Edinburgh Univ. 1919-20; appointed actuary, S.A.N.L.A.M. 1921, later Man.; Man. Dir. 1946-49; ordinary Dir. 1949-66; actuary and Gen. Man. African Homes Trust Assurance Co. 1935-45; Hon. Vice-Pres. S.A.N.L.A.M. 1966-70, Hon. Pres. 1970-; connected with the founding of Federale Volksbeleggings Beperk, Bonusbeleggingskorporasie van Suid-Afrika Beperk, Sentrale Nywerheidsaksepbank Beperk and Federale Mynbou Bpk; first Man. Dir. of Bonuskor; Chair. Bonuskor and Saambou 1947-70; fmr. Dir. Industrial Devt. Corpn.; fmr. Chair. Cen. Accepting Bank, Coloured Investment Corpn., fmr. Dir., Santam; fmr. mem., Council for Scientific and Industrial Research, Bd. of Stellenbosch Univ., Trustee of South Africa Foundation and Nat. Cancer Soc.; fmr. Pres. Inst. for Admin. and Commerce 1949; Foundation mem., later Pres. Afrikaans Chambers of Commerce; awarded Frans du Toit prize 1961, Hendrik Verwoerd prize 1965. *Address:* c/o Bonuskor, Sanlam Centre, Heerengracht, Cape Town, South Africa.

LOVE, George Hutchinson; American business executive; b. Sept. 4 1900; s. of Joseph E. Love and Sara Elizabeth Jennings; m. 1929; one s. two d.; Chair. Bd. Consolidation Coal Co., M. A. Hanna Co.; Chair. Exec. Cttee. of Chrysler Corpn. until 1966; Dir. Hanna Mining Co., Bradford Computer and Systems Inc., Gen. Adjustment Bureau; Chair American European Assen.; Hon. LL.D. (Washington and Jefferson Coll., West Virginia Univ., Bethany Coll., Carnegie Inst. of Technology, Colgate Univ.). *Leisure interests:* golf, shooting, swimming, fishing. *Address:* 5920 Braeburn Place, Pittsburg, Pa., U.S.A.

LOVEDAY, George Arthur, M.A., T.D.; British fmr. stockbroker; b. 13 May 1909, Iquique, Chile; s. of Arthur Frederic Loveday and Mary Cornelia Backus; m. 1st Sylvia Mary Gibbs 1935 (died 1967), two s.; m. 2nd Penelope Elton Dugdale Cunard 1967; ed. Winchester Coll. and Magdalen Coll., Oxford Univ.; active in industry and commerce 1932-39; served World War II, Royal Artillery, commissioned 1940, Maj. 1941; mem. London Stock Exchange 1946, Council mem. 1961-71, Deputy Chair. 1971, Chair. 1973-75; Partner, Read Hurst-Brown and Co. subsequently Rowe and Pitman, Hurst-Brown 1948-75. *Leisure interests:* gardening, golf. *Address:* Bushton Manor, Bushton, Swindon, Wilts. SN4 7PX. England (Home). *Telephone:* Broad Hinton 246.

LOVEDAY, Harold Maxwell, M.B.E.; Australian diplomatist; b. 12 Sept. 1923, Sydney; s. of R. T. Loveday; m. Cynthia Nelson 1962; one s. one d.; ed. Sydney Univ. and Canberra Univ. Coll.; joined Dept. of Foreign Affairs as a career Foreign Service Officer 1945; served in Shanghai and Nanking 1946-50, Bonn and Berlin 1953-54; Rep. in Korea 1954-55; served in Kuala Lumpur 1955-56, 1964; Counsellor, Embassy in Washington, D.C. 1959-62; Australian Commr., South Pacific Comm. 1962-66; Asst. Sec. Dept. of Foreign Affairs 1962-66, Amb. to Indonesia 1966-69; Amb. and Perm. Rep. to UN Office in Geneva 1969-72; Acting Dir.-Gen. Australian Devt. Assistance Agency 1973-74; High Commr. to Canada 1975-77; Amb. to Fed. Repub. of Germany 1977-. *Leisure interests:* tennis, golf, skiing. *Address:* c/o Department of Foreign Affairs, Canberra, A.C.T. 2600, Australia.

LOVELL, Sir (Alfred Charles) Bernard, Kt., F.R.S., O.B.E., PH.D., M.SC.; British radio astronomer; b. 31 Aug. 1913, Oldland Common, Glos.; s. of Gilbert and Emily Laura Lovell (née Adams); m. Mary Joyce Chesterman 1937; two s. three d.; ed. Bristol Univ.; Asst. Lecturer in Physics, Univ. of Manchester 1936-39, 1945-47, Sr. Lecturer 1947-49, Reader 1949-51, Prof. of Radio Astronomy 1951–; with Telecommunications Research Est. 1939-45; Dir. Nuffield Radio Astronomy Labs., Jodrell Bank 1951-; Fellow, Royal Soc. 1955; Hon. Foreign mem. American Acad. of Arts and Sciences 1955, Hon. mem. New York Acad. of Sciences 1960; Pres. Royal Astronomical Soc. 1969-71, British Assen. 1974-75; Vice-Pres. Int. Astronomical Union 1970-76; mem. Aeronautical Research Council 1955-58, Science Research Council 1965-70; Hon. Fellow, Royal Swedish Acad. 1962, Inst. of Electrical Engineers 1967, Inst. of Physics 1975; Hon. Freeman City of Manchester 1977, Hon. LL.D. (Edinburgh, Calgary), Hon. D.Sc. (Leicester, Leeds) 1966, (Bath, London) 1967, (Bristol) 1970, Hon. D.Univ. (Stirling) 1974, (Surrey) 1975; Royal Medal of Royal Soc. 1960; Daniel and Florence Guggenheim Int. Astronautics Award 1961; Ordre du Mérite pour la Recherche et l'Invention 1962; Polish Order of Merit 1975; Maitland Silver Medal, Inst. of Structural Engineers 1964; Churchill Gold Medal, Soc. of Engineers 1964. *Publications:* Science and Civilisation 1939, World Power Resources and Social Development 1945, Radio Astronomy 1952, Meteor Astronomy 1954, The Exploration of Space by Radio 1957, The Individual and the Universe (The Reith Lectures 1958), The Exploration of Outer Space 1962, Discovering the Universe 1963, Our Present Knowledge of the Universe 1967; Ed. (with Tom Margerison) The Explosion of Science: The Physical Universe 1967, The Story of Jodrell Bank 1968, The Origins and International Economics of Space Exploration 1973, Out of the Zenith: Jodrell Bank 1957-1970 1973, Man's Relation to the Universe 1975, P. M. S. Blackett—a Biographical Memoir 1976, In the Centre of Immensities 1978. *Leisure interests:* music, gardening, cricket. *Address:* Nuffield Radio Astronomy Laboratories, Jodrell Bank, Macclesfield, Cheshire; The Quinta, Swettenham, Nr. Congleton, Cheshire, England (Home). *Telephone:* Lower Withington 321.

LOVERING, Thomas Seward, PH.D.; American economic geologist and geochemist; b. 12 May 1896, St. Paul, Minn.; s. of Thomas D. and Estelle Wilcox Lovering; m. (Alexina) Corinne Gray 1919 (died 1969), one s.; m. 2nd Mildred Woodruff Stewart 1972; ed. Minnesota School of Mines and Univ. of Minnesota; Instructor in Geology, Univ. of Ariz. 1924-25, Prof. of Econ. Geology 1966-75; Geologist, U.S. Geological Survey 1925-34; Prof. of Econ. Geology, Univ. of Mich. 1934-47 (on leave for special investigations 1942-46); geologist and geochemist, U.S. Geol. Survey 1947-65; Research Assoc., Univ. of Calif., Santa Barbara 1976-; Visiting Prof., Univs. of Minn., Ariz., Tex. and Utah 1965-70; mem. Nat. Acad. of Sciences (mem. Cttee. on Resources and Man 1967-69); Pres. Geol. Soc. of America 1951; U.S. del. to several int. confs.; Distinguished Service Gold Medal (U.S. Dept. of Interior) 1959; Achievement Award, Gold Medal (Univ. of Minn.) 1960; Jackling Award and Jackling Lecturer, American Inst. of Mining Engineers 1965; Penrose Gold Medal, Soc. of Econ. Geologists 1965. *Publications:* Over 150 publications on geochemical, geophysical and geological topics. *Leisure interests:* wood and metal working, riding, birding, chess. *Address:* 186 Northview, Samarkand, 2663 Tallant Road, Santa Barbara, Calif. 93105, U.S.A.

LOVĚTINSKÝ, Čestmir; Czechoslovak politician; b. 6 Jan. 1924, Klatovec, district of Jihlava; ed. Political Coll. of Cen. Cttee. of CP of Czechoslovakia; Chief Sec. of Dist. Cttee. for Doksy, Česká Lípa and Liberec, CP of Czechoslovakia 1959-68, Dist. Cttee. for Chomutov 1969-74; Deputy to House of the People, Fed. Assembly 1971-; Sec. North Bohemian Regional Cttee. of CP of Czechoslovakia, Ustí nad Labem 1974; Deputy Head of Political Org. Dept. of Cen. Cttee., CP of Czechoslovakia 1974-75, Head of Dept. 1975-; mem. Cen. Cttee. April 1976-, and mem. Secretariat of Cen. Cttee. 1976-78; Amb. to U.S.S.R. 1978-; Order of Labour 1962, Order of February 1948 1974. *Address:* Embassy of Czechoslovak Socialist Republic, Ul. Yuliusa Fuchika 12-14, Moscow, U.S.S.R.

LOVETT, Robert Abercrombie; American banker and railroad executive; b. 14 Sept. 1895; ed. Yale and Harvard Univs.; clerk, Nat. Bank of Commerce, New York 1921; partner, Brown Brothers, Harriman and Co. 1926-40, 1946-47, 1949-50; Special Asst. to Sec. of War 1940-41; Asst. Sec. of War for Air 1941-45; Under-Sec. of State 1947-49; Deputy Sec. of Defense 1950-51, Sec. of Defense 1951-53; Gen. Partner, Brown Brothers, Harriman and Co. 1953-; Special Adviser to Pres. Kennedy 1961-63; dir. several financial orgs.; Navy Cross 1919; Distinguished Service Medal 1945; U.S. Presidential Medal of Freedom 1963. *Address:* Locust Valley, Long Island, N.Y. 11560; and 59 Wall Street, New York, N.Y. 10005, U.S.A.

LOVINESCU, Horia, D.ES.L.; Romanian theatre director and playwright; b. 20 Aug. 1917, Fălticeni; ed. Universitatea Bucureşti; First Press Attaché for Cultural Relations 1948-63; Dir. Nottara Theatre, Bucharest 1964-; Vice-Pres. Romanian PEN Club 1963-, Theatre Council 1963-; mem. Bd. of Writers' Union 1965-; State Prize and other Romanian awards. *Publications:* Jean Arthur Rimbaud (critical study); Plays: Citadela Sfărîmată (Destroyed Citadel) 1954, Hanul de la Răscruce (Inn at the Crossroad) 1955, Surorile Boga (Boga Sisters) 1957, Mai Presus de Toate (Above All) 1959, Febre (Fever) 1960, Omul care si-a Pierdut Omenia (The Man Who Lost his Humanity) 1961, Paradisul (The Paradise) 1962, Moartea Unui Artist (The Death of an Artist) 1964, Locţiitorul (The Man Instead) 1966, Petru Rares 1977. *Address:* C.I. Nottara Theatre, 20 Bulevardul Magheru, Bucharest, Romania.

LOVO-CORDERO, Alfonso; Nicaraguan businessman, lawyer and politician; b. 11 June 1927, Ocotal Nueva Segovia; s. of Alfonso Lovo-Moncada and Esperanza Cordero de Lovo; m. Teresita Blandón 1950; three s. one d.; ed. Instituto Pedagógico de Diriamba, Monroe High School, Rochester, U.S.A., Rochester Business Institute, U.S.A., Cornell Univ., Univ. Nacional Autónoma de Nicaragua; Minister of Agric. and Livestock 1967-72, mem. Nat. Gov. Council 1972-74; Pres. Int. Cttee. Regional Agricultural Health (CIRSA) 1967; chief of Nicaraguan del. to Panama 1968; Pres. Panamanian Union Ad-Hoc Cttee. of Latin American banana producing countries, Washington, U.S.A. 1967; Pres. Panamerican Meeting of Ministers of Agric. on Foot and Mouth and Animal Disease Control, Washington, 1968, 1969, 1970; Vice-Pres. FAO Reg. Conf. for Latin America 1968; Vice-Pres. Latin American Del. to XVth FAO Council 1969; Nicaraguan Del. to Int. Coffee Council 1970; Vice-Pres. Latin American Del. to 2nd FAO World Food Congress 1970; Pres. Nicaraguan Del. to Int. Cotton Council 1970; Vice-Pres. Latin American Del. to VIth FAO Conference; has occupied numerous sr. posts in Nicaragua including Pres. Nat. Inst. Home and Foreign Trade, Pres. Nat. Cotton Comm., Vice-Pres. Agrarian Inst., Vice-Pres. Coffee Inst., mem. Bd. Inst. Nat. Devt. (INFONAC); currently mem. Bd. of Dirs., Banco Nicaragüense, Booth of Nicaragua, QUINSA, INDESA, mem. exec. bd. Nicaraguan Devt. Inst. (INDE), Dir. exec. bd. Nicaraguan Devt. Foundation (FUNDE); founder and Pres. Propulsora Agrícola Industrial S.A.; Dir. Compañía Nacional de Seguros, Financiera de la Vivienda, Exportadora Agrícola S.A.; Senator 1975-; Gran Cruz Placa de Plata de Rubén Darío (Nicaragua) 1970, Order of the Brilliant Star 1970, Order of the Propitious Cloud (China) 1974, Cruz de Bocayá (Colombia) 1974, and other decorations. *Leisure interests:* sailing, reading, horse riding. *Address:* Managua, Nicaragua. *Telephone:* 60606 (Office); 23070 (Home).

LOW, Sir Alan Roberts, Kt., M.A.; New Zealand banker (retd.); b. 11 Jan. 1916, Blenheim; s. of Benjamin and Sarah Low; m. Kathleen Mary Harrow 1940; one s. two d.; ed. Timaru Boys' High School and Canterbury Univ. Coll.; joined Reserve Bank of N.Z. 1938; Mil. Service 1942-44; Econ. Adviser, Reserve Bank of N.Z. 1951, Asst. Gov. 1960-62, Deputy Gov. 1962-67, Gov. 1967-76; Past Pres. N.Z. Assen. of Economists. *Leisure interests:* gardening, music. *Address:* 83 Penrose Street, Lower Hutt, New Zealand.

LOW, Francis Eugene, B.S., M.S., PH.D.; American physicist; b. 27 Oct. 1921, New York; s. of Bela Low and Eugenia Ingerman Low; m. Natalie Sadigur 1948; three c.; ed. Harvard Coll. and Columbia Univ.; Asst. and Assoc. Prof., Univ. of Ill. 1952-57; Prof. of Physics, M.I.T. 1957-67, Karl Taylor Compton Prof. of Physics 1968-, Dir. Center for Theoretical Physics 1973-77, Dir. Lab. for Nuclear Science 1979-; Guggenheim and Fulbright Fellow; Loeb Lecturer, Harvard Univ.; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences. *Leisure interests:* piano, composing music, skiing, tennis, flying, problems of impact of science on society. *Address:* Room 6-313, Department of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 02139; 28 Adams Street, Belmont, Mass. 02178, U.S.A. *Telephone:* Ivanhoe 4-1889.

LOW, George Michael; American space scientist; b. 10 June 1926, Vienna, Austria; s. of Arthur and Gertrude Low; m. Mary Ruth McNamara 1949; three s. two d.; ed. Rensselaer Polytechnic Inst., Troy, New York; Nat. Advisory Cttee. for Aeronautics 1949-58, research on Aerodynamic Heating, Boundary Layer Theory, Internal Aerodynamics, Space Tech., Chief of Special Projects Branch 1956-58; Nat. Aeronautics and Space Admin. (NASA) 1958-63, assisted with Mercury, Gemini and Apollo manned space flight programmes as Deputy Assoc. Administrator for Manned Space Flight; Deputy Dir. NASA Manned Spacecraft Center 1964-67; Man. Apollo Spacecraft Programme, NASA 1967-69; Deputy Admin. NASA 1969-76; Pres. Rensselaer Polytechnic Inst., New York 1976-; Fellow American Inst. of Aeronautics and Astronautics; Dir. Nat. Aeronautics Assen.; Hon. mem. Aerospace Medical Assen.; Trustee, Rensselaer Polytechnic Inst.; Nat. Aeronautics and Space Agency's Outstanding Leadership Medal 1962; Arthur S. Flemming Award 1963; American Astronautical Soc. Space Flight Award 1968; NASA Distinguished Service Medal 1969; Nat. Space Club Astronautics Engineer Award 1970; Nat. Space Club Robert H. Goddard Memorial Trophy 1973; Nat. Civil Service League Career Service Award for Sustained Excellence 1973; Rockefeller Public Service Award for Admin. 1974; Hon. D.Eng. (Rensselaer Polytechnic Inst.) 1969, Hon. D.Sc. (Univ. of Florida) 1969. *Leisure interests:* boating, water skiing, scuba diving. *Address:* National Aeronautics and Space Administration, Washington, D C. 20546; 1515 Highwood Drive, Arlington, Va. 22207, U.S.A. (Home). *Telephone:* 202-755-3886.

LOWE, Douglas Ackley; Australian politician; b. 15 May 1942, Hobart; s. of Ackley Reginald and Dulcie Mary Lowe; m. Pamela June Grant 1962; two s. two d.; ed. St. Virgil's Coll.; worked as electrical fitter, Electrolytic Co.; State Sec. Tasmanian Section, Australian Labour Party 1965-69, State Pres. 1974-75; mem. Tasmania House of Assembly 1969-; Minister for Housing 1972; Chief Secr. 1974, Deputy Premier 1975-77, Chief Sec. and Minister for Planning and Reorganization 1975, Minister for Industrial Relations 1976-, for Planning and the Environment 1976, for Health 1976, for Manpower Planning 1977-; Premier of Tasmania Dec. 1977-; del. to Australian Constitutional Convention; Queen's Silver Jubilee Medal 1977. *Leisure interests:* shooting, fishing, walking, tennis. *Address:* Office of the Premier, Executive Building, Franklin Square, Hobart, Tasmania 7000; 15 Tooma Avenue, Chigwell, Tasmania 7011, Australia (Home).

LOWER, Arthur R. M., C.C., M.A., PH.D., F.R.S.C.; Canadian university professor and writer; b. 1889; s. of Frederick J. Lower and Sarah A. Smith; m. Evelyn Marion Smith 1920; one d.; ed. Barrie Collegiate Inst., Barrie, Ontario, Toronto and Harvard Univs.; War Service, Navy 1916-19; Head, Dept. of History, United Coll., Univ. of Manitoba 1929; Douglas Prof. of Canadian History, Queen's Univ. 1947-59, Prof. Emer. 1959-; Visiting Prof. Univ. of Wisconsin 1955-56, Univ. of Glasgow 1967; Sr. Fellowship Canada Council 1959-60; Pres. Royal Soc. of Canada 1961-62; various honorary degrees and medals. *Publications:* Documents in Canadian Economic History (with others) 1933, Settlement and the Forest Frontier in Eastern Canada 1936, The North American Assault on the Canadian Forest 1938, Canada and the Far East 1940, Colony to Nation: A History of Canada 1946, Canada, Nation and Neighbour 1952, Unconventional Voyages 1953, This Most Famous Stream: Anglo-Saxon Liberty 1954, Canadians in the Making 1958, My First Seventy-Five Years 1967, Great Britain's Woodyards 1973, History and Myths 1975, A Pattern for History 1978. *Leisure interests:* reading, writing, conversation, travelling, splitting wood, making maple syrup, cruising on Lake Ontario, swimming, enjoying autumn foliage in the woods. *Address:* Horizon House, Collins Bay, Ontario, Canada. *Telephone:* 613-1542-1070.

LOWMIAŃSKI, Henryk, PH.D.; Polish historian; b. 10 Aug. 1898, Daugudzie, Russian Empire; s. of Konstanty Łowmianski and Kazimiera Rudzińska; m. Maria Plackowska 1929 (died 1962); ed. Stephan Batory Univ., Vilnius; Doctor 1924-32, Docent 1932-35, Extraordinary Prof. 1934-36, Prof. 1946-, Emer. 1968-; Prof. Poznań Univ. 1945-68; Head of Dept., Inst. of History, Polish Acad. of Sciences (PAN) 1953-62, Corresp. mem. PAN 1952-56, mem. 1956-; Chair. Polish-Soviet Historical Comm. 1965-73; mem. Scientific Council Inst. of History, PAN 1953-; Dr. h.c. (Poznań) 1966, (Warsaw) 1973; State Prize, 1st Class 1955, 1964; City of Poznań Prize 1965; Officer's Cross, Order of Polonia Restituta 1951, Commdr.'s Cross 1959; Order of Banner of Labour, 2nd Class 1954; Medal of 10th Anniversary of People's Poland 1955; Medal of Nat. Educ. Comm. 1968; Order of Builders of People's Poland 1974. *Publications:* Studia nad początkami społeczentwa i państwa litewskiego (Studies in the Beginnings of Lithuanian Society and State) Vol. I 1931, Vol. II 1932, Podstawy gospodarcze formowania się państw słowiańskich (The Economic Basis of the Formation of the Slavonic States) 1953, Zagadnienie roli Normanów w genezie

państw słowiańskich (The Problem of the Role of the Normans in the Genesis of the Slavonic States) 1957; Ed. History of Poland Vol. I; Początki Polski (Origins of Poland) Vols. I-V 1963-73, Vol. VI 1977. *Address:* Ul. Cześnikowska 12 m. 1, 60 330 Poznań, Poland. *Telephone:* 671877.

LOWRY, Bates, PH.B., M.A., PH.D.; American art historian; b. 21 June 1923, Cincinnati, Ohio; m. Isabel Barrett 1946; two d.; ed. Univ. of Chicago; Asst. Prof. Univ. of Calif. 1954-57; Asst. Prof. New York Univ., Inst. of Fine Arts 1957-59; Chair. Art Dept. Pomona Coll. 1959-63, Prof. Brown Univ. 1963-68, Chair. Dept. of Art 1963-68; Dir. Museum of Modern Art, New York 1968-69; mem. Inst. for Advanced Study 1971; Prof., Chair. Art Dept., Univ. of Mass., Boston 1971-; mem. Bds. of Dirs. Soc. of Architectural Historians 1960-63, 1964-67, College Art Assn. 1963-66; Ed.-in-Chief, Art Bulletin 1965-68; Ed. College Art Assn. Monographs Series 1959-62, 1965-68; Chair. Nat. Exec. Cttee., Cttee. to Rescue Italian Art (CRIA) 1966-; Pres. The Dunlap Soc. 1974-; Trustee, American Fed. of Arts; Guggenheim Fellowship 1972; Govs. award for Fine Arts, Rhode Island 1967; Grand Officer Star of Solidarity of Italy 1968. *Publications:* The Visual Experience 1961, Renaissance Architecture 1962. *Address:* Art Department, University of Massachusetts, Boston, Mass. 02125, U.S.A.

LOWRY, Oliver Howe, PH.D., M.D.; American professor of pharmacology; b. 18 July 1910, Chicago, Ill.; m. 1st Norma [illegible] Ness 1935 (deceased), 2nd Adrienne Kennedy 1964; three s. two d.; ed. Northwestern Univ. and Univ. of Chicago; Instructor, Dept. of Biological Chem., Harvard Medical School 1937-42; at Div. of Physiology and Nutrition, Public Health Research Inst., New York 1942-47; Prof. of Pharmacology and Head of Dept., Washington Univ. School of Medicine 1947-76, Dean 1955-58; Commonwealth Fund Fellow, Carlsberg Lab. Denmark 1939-40; mem. Editorial Bd. Journal of Neurochemistry; mem. Nat. Advisory Gen. Medical Sciences Council of Nat. Insts. of Health, Scientific Advisory Cttee. of Nat. Foundation, Scientific Advisory Bd. of Scripps Clinic and Research Foundation; mem. of many socs. including Nat. Acad. of Sciences, A.A.A.S., Harvey Soc., A.C.S.; Midwest Award of A.C.S. 1962, Merit Award of Northwestern Univ. 1963, John Scott Award 1963, Distinguished Service Award of Medical Alumni Assn. of Univ. of Chicago 1965, Borden Award of Assn. of American Medical Colls. 1966. *Publications:* 177 papers in Journal of Biological Chemistry, Journal of Neurochemistry, other scientific journals 1939-77. *Address:* Washington University School of Medicine, St. Louis, Mo. 63110, U.S.A.

LOWRY, Sir Robert Lynd Erskine, Kt., Q.C., M.A.; cr. Life Peer June 1979; British judge; b. 30 Jan. 1919, Dublin, Ireland; s. of late William Lowry (Rt. Hon. Mr. Justice Lowry) and Catherine Hughes (Lynd) Lowry; m. Mary Audrey Martin 1945; three d.; ed. Royal Belfast Acad. Inst., Jesus Coll. Cambridge; served in H.M. Forces 1940-46, commissioned Royal Irish Fusiliers 1941, Major 1945; called to the Bar of Northern Ireland 1947, Bencher of Inn of Court of Northern Ireland 1955, Queen's Council 1956, Justice of High Court 1964, Lord Chief Justice of Northern Ireland 1971-; mem. Joint Law Enforcement Comm. 1973; Chair. Northern Ireland Constitutional Convention 1975-76; Hon. Bencher Middle Temple and King's Inn Dublin; Hon. Fellow Jesus Coll. Cambridge; Int. Showjumping Judge 1973-. *Leisure interests:* golf, showjumping. *Address:* White Hill, Crossgar, Co. Down, Northern Ireland. *Telephone:* Crossgar 397.

LOYD, Sir Francis Alfred, K.C.M.G., O.B.E.; fmr. British overseas civil servant; b. 5 Sept. 1916, Berkhamsted; s. of Major and Mrs. A. W. K. Loyd; m. Katharine Layzell; two d.; ed. Eton Coll. and Trinity Coll., Oxford; Cadet, Provincial Admin., Kenya 1939; Mil. Service 1940-42; Private Sec. to Gov. of Kenya 1942-45; Consul, Mega, Ethiopia 1945; Dist. Commr., Kenya 1947-55; Commonwealth Fund Fellowship to U.S.A. 1953-54; Provincial Commr., Kenya 1956-62, Perm. Sec., Governor's Office and Sec. to Cabinet 1962-63; Commr. for Swaziland 1964-68; Dir. London House for Overseas Graduates 1969-; Chair., Africa Cttee., Standing Conf. of British Orgs. for Aid to Refugees 1969-75. *Leisure interests:* golf, gardening. *Address:* London House, Mecklenburgh Square, London, W.C.1. (Office); 53 Park Road, Aldeburgh, Suffolk, England (Home). *Telephone:* 01-837/8888 (Office); Aldeburgh 2478 (Home).

LOYO, Gilberto; Mexican economist and politician; b. 1901, Orizaba; m. 1929; one d.; ed. Univ. Nacional Autónoma de México and Univ. di Roma; has held various teaching posts since 1923, including Prof. of Mexican and Gen. History, Political Econ. Rural Sociology and Gen. Econ. History, Nat. School of Agric. and Prof. of Demography, Nat. Polytechnic Inst.; founded Chair of Political Demography in Nat. School of Econs.; Chief of Cen. Office of Census 1940; organized and directed Nat. Censuses 1950; fmr. statistical adviser to Mexican state govts. and to various foreign govts.; fmr. Dir. of Social Welfare, Fed. Labour Dept., Chief of Research and Dir.-Gen. of Credit and Statistics, Secretariats of Econ. and Finance; Minister of Econ. 1953-58; Dir. Consejo Técnico de los Censos Nacionales; fmr. Vice-Pres. and Pres. Mexican Soc. of Geography and Statistics; Pres. Nat. Council of Statistics 1959; Nat. Comm. on Minimum Salaries 1963; [illegible] Gov. Bd. of Univ. Nacional Autónoma de México 1967; founder Mexican Cttee. for Study of Population Problems; mem. Statistical Comm. of UN; Hon. mem. Inter-American Inst. of Statistics 1967; Dr. h.c. (Univ. of Veracruz) 1946. *Publications:* La Concentración Agraria en el Mundo 1933, La Política Demográfica de México 1935, Evolución de la Definición de Estadística 1939, La Concentración Agraria en 28 países 1941, La Presión Demográfica 1949, Sobre Enseñanza de la Historia 1950, La Población de México, Estado Actual y Tendencias 1960-1980 1960, Población y Desarrollo Económico 1963, Demasiados Hombres, Valores Humanos y Explosión Demográfica 1963, Desarrollo Regional 1970, Inmigración al Distrito Federal 1970, Gobernar es Poblar 1970, etc. *Leisure interest:* reading. *Address:* Gen. León 80, Tacubaya, México 18, D.F., Mexico. *Telephone:* 515-31-61.

LOZOYA-SOLIS, Jesús; Mexican paediatric surgeon; b. 3 March 1910, Parral, Chihuahua; s. of late Leodegario Lozoya and late Josefa Solis; m. 1st Susana Thalmann 1937 (divorced 1958); 2nd Margarita Prieto de Lozoya 1959; four s. one d.; ed. Mil. Medical School of Mexico, Western Reserve Univ. Hosp., Cleveland, Ohio, Harvard Univ. Children's Hosp.; founder of paediatric surgery in Mexico 1940-52; Hosp. Infantil of Mexico 1940-52; Asst. Prof. Paediatrics and Surgical Paediatrics 1940; Pres. Mexican Soc. of Paediatrics 1948-50; Pres. Mexican branch American Acad. of Paediatrics 1944-46; Pres. Laboratorios Infan of Mexico 1949-; Pres. Mexican Soc. Paediatric Surgery 1958-60; founder and first Pres. Pan-American Paediatric Surgery Assn. 1966-68, World Symposium Paediatric Surgery 1965-68, World Fed. Paediatric Surgeons 1974; founder of Dept. of Paediatrics of Armed Forces of Mexico 1940, Nat. Inst. for the Protection of Children 1958; Senator of the Repub. 1952-55; Gov. of Chihuahua 1955-56; Gen. of Mexican Army 1949; Guest Prof. of Paediatric Surgery at numerous Univs.; mem. American Acad. of Paediatrics 1944, American Coll. of Surgeons 1945, American Mil. Surgeons Assn., Mediterranean Acad.; hon. mem. American Paediatric Surgical Assn., Pacific Assn. of Paediatric Surgeons, and many paediatric surgery asscns.; Pres. organizing cttee. World Fed. of Paediatric Surgery Asscns. 1972-74; Chevalier, Hospitalare of Malta 1976, Medical Benefactor 1976. *Publications:* Paedriatria Quirúrgica 1959, México ayer y hoy, visto por un pediatra mexicano 1965, La escuela médico militar de México 1977, and numerous articles. *Leisure interests:* history, philosophy, anthropology, writing, lecturing, gardening, travelling, riding. *Address:* Calzada Tlalpan 4515, México 22, D.F., Mexico. *Telephones:* 5730094, 5732200/01/02/03.

LU CHENG-TS'AO; Chinese soldier; b. 1903, Liaoning province; ed. Northeast Mil. Acad.; joined Army 1921; Regimental Commdr. in Kuomintang Army 1933; joined CCP 1936; Commdr. Northeast Railway Protection Corps 1948; Vice-Minister of Railways 1949-61; Commdr. PLA Railway Corps 1950; Act. Minister of Railways 1961-65, Minister 1965-66; criticized and removed from office during Cultural Revolution 1967; Political Commissar, PLA Railway Corps 1976; [illegible] 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

LU CHIA-HAN; Chinese party official; Political Commissar, Szechuan Mil. District, PLA. *Address:* People's Republic of China.

LU TUNG: Chinese politician; fmr. Minister of Metallurgical Industry; Third Minister of Mechanical Industry March 1978-. *Address:* People's Republic of China.

LUBBERS, Rudolph Frans Marie; Netherlands politician; b. 7 May 1939, Rotterdam; m.; two s. one d.; ed. Erasmus Univ., Rotterdam; Sec. to Man. Bd., Lubbers Hollandia Eng. Works 1963-65, Co-Dir. 1965; mem. Bd. Netherlands Christian Employers' Fed., Fed. of Mechanical and Electrical Eng. Industries; mem. Programmes Advisory Council of Catholic Broadcasting Assn.; Minister of Econ. Affairs 1973-77; mem. Second Chamber of States-Gen. (Parl.) May 1977-; Catholic People's Party. *Address:* Tweede Kamer der Staten-Generaal, The Hague, Binnenhof 1A, Netherlands.

LUBIS, Mochtar; Indonesian journalist; b. 1922, Padang, Sumatra; s. of Raja Pandapotan and Mandailing Sumatra; m. Siti Halimah 1945; two s. one d.; joined Indonesian Antara News Agency 1945; publisher daily Indonesian Raya 1949-61, Ed. 1956-51, 1966; arrested Feb. 1975; published and edited The Times of Indonesia 1952, Nat. Literary Award 1953; Pres. Magsaysay Award for the

Press 1958, Golden Pen of Freedom, Int. Fed. of Publishers 1967, Press Foundation of Asia. *Publications:* Pers and Wartawan, Tak Ada Esok, Si Djama (short stories), Djalan Ada Udjung, Korean Notebook, Perkenalan Di Asia Tenggara, Melawat Ke Amerika, Stories from Europe, Indonesia Dimata Dunia, Stories from China, A Road with No End (novel) 1952, Twilight in Djakarta 1963, Tiger! Tiger!, Subversive Notes, Love and Death 1976. *Leisure interests:* painting, ceramics, sculpture, orchids, tennis, sailing, flying, gardening. *Address:* Jalan Garah 104, Jakarta Pusat, Indonesia.

LŮČAN, Matej, PAED.DR.; Czechoslovak politician; b. 11 Jan. 1928, Gotovany; ed. Comenius Univ., Bratislava; Head of Dept., Cen. Cttee., CP of Slovakia 1951-52, 1953-63; [redacted] Cen. Cttee., CP of Slovakia 1958-68, 1969-71; Head of Dept. of Marxism-Leninism, Comenius Univ., Bratislava 1952-53; mem. Presidium, Slovak Nat. Council 1963-68; Commr. for Educ. and Culture, Slovak Nat. Council 1963-67, for Educ., 1967-68; Minister of Educ. of Slovak S.R. 1969-70; Perm. Rep. to Int. Office for Educ. 1964-68; Deputy Premier, Czechoslovak S.R. 1970-; mem. House of Nations, Fed. Assembly 1970-; mem. Cen. Cttee., CP of Czechoslovakia 1970-; Vice-Premier 1971-; Chair. State Cttee. for Culture, Scientific and Health Regulations with Foreign Countries 1971-, Govt. Population Comm. 1971-; Deputy Chair. Govt. Cttee. for Science and Tech. 1971-; Order of Labour 1970, Order of Victorious February 1978. *Address:* Presidium of Czechoslovak Government, nábřeží kpt. Jaroše 4, Prague 1, Czechoslovakia.

LUCAS GARCÍA, Gen. Fernando Romeo; Guatemalan politician; Minister of Nat. Defence 1975-76; Pres. of Guatemala July 1978-; Cand. for Partido Revolucionario and Partido Institucional Democrático. *Address:* Oficina del Presidente, Guatemala City, Guatemala.

LUCE, Charles F., LL.B.; American business executive; b. 29 Aug. 1917, Platteville, Wis.; m. Helen G. Oden; four c.; ed. Univ. of Wisconsin Law School and Yale Law School; admitted to Wis. Bar 1941, Ore. Bar 1945, Wash. Bar 1946; Law clerk to late Mr. Justice Hugo Black, Supreme Court 1943-44; Attorney, Bonneville Power Admin., Portland, Ore. 1944-46; in private law practice, Walla Walla, Wash. 1946-61; Bonneville Power Administrator 1961-66; Under-Sec. of the Interior 1966-67; Chair. Bd. of Trustees and Chief Exec. Officer, Consolidated Edison Co. of New York Inc. 1967-; mem. Bd. of Dirs. Metropolitan Life Insurance Co., UAL Inc., United Airlines Inc., GAB Business Services Inc.; mem. Bd. of Trustees, Columbia Univ., The Conf. Board; mem. various advisory cttees., etc. *Address:* Consolidated Edison Co. of New York Inc., 4 Irving Place, New York, N.Y. 10003, U.S.A.

LUCE, Clare (Clare Boothe); American writer and diplomatist; b. New York; d. of William F. Boothe and Ann Snyder; m. 1st George T. Brokaw 1923 (divorced 1929), 2nd Henry R. Luce 1935 (deceased); ed. St. Mary's Garden, New York; Assoc. Ed. Vogue 1930, Vanity Fair 1931-32, Man. Editor 1933-34; newspaper columnist 1934; playwright 1935-; Republican [redacted] 78th and 79th Congress from Fairfield County, Conn. 1943-47; Amb. to Italy 1953-57; appointed Amb. to Brazil 1959; appointment approved by Senate; resigned before taking up post; mem. Editorial Bd. Encyclopaedia Britannica 1974; Hammarskjöld Prize 1966. *Publications include:* plays: Abide with Me 1935, The Women 1936, Kiss the Boys Good-bye 1938, Margin for Error 1939, Child of the Morning 1952; novels: Stuffed Shirts 1933, Europe in the Spring 1940. *Address:* 4559 Kahala Avenue, Honolulu, Hawaii 96816, U.S.A.

LUCE, Henry, III; American journalist and publisher; b. 28 April 1925, New York; s. of Henry R. Luce and Lila Hotz Tyng; m. 1st Patricia Potter 1947 (divorced 1954), one s. one d.; m. 2nd Claire McGill 1960 (died 1971), three step s.; m. 3rd Nancy Bryan Cassiday 1975, two step s.; ed. Brooks School and Yale Univ.; Commr.'s Asst., Hoover Comm. on Org. Exec. Branch of Govt. 1948-49; Reporter, Cleveland Press 1949-51; Washington Corresp. Time Inc. 1951-53, Time writer 1953-55, Head New Bldg. Dept. 1956-60, Asst. to Publisher 1960-61, Circulation Dir. Fortune and Architectural Forum 1961-64, House and Home 1962-64, Vice-Pres. 1964-, Chief London Bureau 1966-68, Publisher Fortune 1968-69, Publisher Time 1969-72; Chair. of the Bd. Time Canada Ltd.; Pres. Assn. of American Corresps. in London 1968; Vice-Pres. for Corporate Planning, Time Inc. 1972-; Dir. Temple-Eastex Inc., Boyd, Stott and McDonald Ltd. (Montreal), Manitou Systems Inc. (Chicago), North-American Advisory Bd. of Volvo; Pres. Henry Luce Foundation 1958-; Chair. Bd., China Inst. in America; mem. American Council for UN Univ.; Trustee, United Bd. for Christian Higher Educ. in Asia, Eisenhower Exchange Fellowships, Nat. Assn. of Railroad Passengers, RAIL Foundation, Princeton Theological Seminary, Coll. of Wooster, Skowhegan School of Painting and Sculpture; Hon. L.H.D. (St. Michael's Coll.). *Address:* Time & Life Building, New York, N.Y. 10020; 4 Sutton Place, New York, N.Y. 10022, U.S.A. (Home).

LUCE, Robert Duncan, PH.D.; American mathematical psychologist; b. 16 May 1925, Scranton, Pa.; s. of Robert R. and Ruth Downer Luce; m. 1st Gay Gaer 1950, 2nd Cynthia Newby 1967; one d.; ed. Massachusetts Inst. of Technology; Member of Staff, Research Lab. of Electronics M.I.T. 1950-53; Asst. Prof. of Sociology and Mathematical Statistics, Columbia Univ. 1954-57; Lecturer in Social Relations, Harvard Univ. 1957-59, Alfred North Whitehead Prof. of Psychology 1976-; Prof. of Psychology, Univ. of Pa. 1959-68, Benjamin Franklin Prof. 1968-69; Visiting Prof. Inst. for Advanced Study, Princeton, N.J. 1969-72; Prof. of Social Science, Univ. of Calif., Irvine 1972-75; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Soc. of Experimental Psychologists; American Psychological Assn. Distinguished Award. *Address:* Department of Psychology and Social Relations William James Hall, Harvard University, Cambridge, Mass. 02138; 33 Washington Avenue, Cambridge, Mass. 02170, U.S.A. (Home). *Telephone:* (617) 495-3815 (Office); (617) 492-5797 (Home).

LUCEBERT (*pseudonym* of L. J. Swaanswijk); Netherlands painter and poet; b. 15 Sept. 1924; ed. School of Applied Arts, Amsterdam; mem. Experimental COBRA group; has lived and worked in Berlin (with Bertolt Brecht) 1954, Bulgaria 1955, France 1964 and Spain 1965; first one-man exhbn., Galerie Espace, Haarlem 1958, also Stedelijk Museum, Amsterdam 1959, and Marlborough New London Gallery 1963; retrospective exhbn. Stedelijk Museum, Amsterdam 1969; Amsterdam Poetry Prize 1954, Premio Marzotto 1962, Graphic Art Prize, Biennale Carrara 1962, Del Naviglio Prize, Venice Biennale 64, P.C. Hooft Prize 1967. *Publications:* Seven books of poetry in Dutch including: Triangel in de Jungle 1952, Collected Poems 1965, Ed. of own poems in English trans. Lucebert, Gedichte und Zeichnungen (German trans.), January, Heads (lithographs and poems). *Address:* Boendermakerhuis, Bergen/North, Holland, Netherlands. *Telephone:* 02208-3551.

LUCET, Charles Ernest; French diplomatist; b. 19 April 1910; ed. Ecole libre des sciences politiques; Attaché French Embassy, Washington 1935, First Sec. 1942; Commissariat for Foreign Affairs, Algeria 1943; Sec. to Embassy, Ankara 1943; Deputy Dir. at Ministry of Foreign Affairs; First Counsellor, Beirut 1946; Counsellor, Cairo 1947, Head of Cultural Relations, Ministry of Foreign Affairs 1950; Minister-Counsellor, Security Council, UN 1953; Minister-Counsellor, French Embassy, Washington 1955; Dir. of Political Affairs, Ministry of Foreign Affairs 1959-65; Amb. to U.S.A. 1965-72, to Italy 1972-74; retd. 1975; Commdr. Légion d'honneur. *Address:* 9 rue de Thann, 75017 Paris, France. *Telephone:* Paris 622-5676.

LUCEY, Patrick Joseph; American politician and diplomatist; b. 21 March 1918, LaCrosse, Wis.; s. of Gregory and Ella (McNamara) Lucey; m. Jean Vlasis 1951; two s. one d.; ed. St. Thomas Coll., Minneapolis and Univ. of Wisconsin; Founder/owner, Lucey Realty 1954-70; State legislator 1948-50; State Chair. Wisconsin Democratic Party 1957-63; Lieut-Gov. State of Wisconsin 1964-66, Gov. 1971-77; Amb. to Mexico 1977-; Democrat. *Address:* American Embassy, Paseo de la Reforma 305, México, D.F., Mexico.

LUCHSINGER, Fred W., PH.D.; Swiss journalist; b. 9 July 1921, St. Gallen; s. of Caspar and Lina Luchsinger-Schwyter; m. Dorette Walther 1950; one s. two d.; ed. Literargymnasium, Kantonschule St. Gallen, Univs. of Zurich and Basel, and Yale Univ.; with Neue Zürcher Zeitung 1949-, Foreign News Dept. 1949, Bonn Corresp. 1955-63, Foreign Ed. 1963, Ed.-in-Chief 1968-. *Publications:* Der Basler Buchdruck als Vermittler italienischen Geistes 1953, Die Neue Zürcher Zeitung im Zeitalter des Zweiten Weltkrieges 1955, Bericht über Bonn: deutsche Politik 1955-1965 1966. *Address:* Neue Zürcher Zeitung, Postfach, 8021 Zürich, Switzerland. *Telephone:* 32-71-00

LUCIO PAREDES, Antonio José, DR.JUR.; Ecuadorean diplomatist; b. 13 Dec. 1923; ed. Univ. Central del Ecuador and Pontifícia Univ. Católica de Rio de Janeiro; joined Ministry of Foreign Affairs 1944; Third Sec., Rio de Janeiro 1949-52; Consul-Gen., Madrid 1955-56; Counsellor 1956-60; Counsellor, del. of Ecuador to OAS 1960-62; Prof. of Diplomatic Law, Inst. Ecuatoriano de Derecho Internacional 1965-66; Prof. of Consular Law, School of Political and Admin. Sciences, Univ. Central 1967-68; Under-Sec.-Gen. Ministry of Foreign Affairs 1967-68; Amb. to Belgium 1968-71, to France 1976-; Minister of Foreign Affairs 1972-75; del. to numerous int. confs.; Gran Cruz, Orden Nacional al Mérito (Ecuador) and decorations from Brazil, Chile, Argentina and Spain. *Address:* Embassy of Ecuador, 34 avenue de Messine, 75008 Paris, France.

LUCIOLLI, Mario, LL.D.; Italian diplomatist (retd.); b. 17 Oct. 1910, Rome; s. of Lodovico Luciolli and Clotilde Marletta; m. Loredana Fritsch 1949; one s. one d.; ed. Univ. degli Studi, Rome; entered Foreign Service 1933; Vice-Consul, Zurich 1934-36, Paris 1936-38; Foreign Ministry, Rome 1938-40, 1942-43; Consul, Melbourne 1940; Sec., Berlin 1940-42; Consul, San Sebastian 1943-44; Foreign Ministry, Rome 1944-48; Counsellor, then Minister Counsellor, Washington 1948-55; Dip. Adviser to Pres. of the Repub., Rome 1955-56; Amb. to Chile 1956-61, to Turkey 1961-64, to Fed. Repub. of Germany 1964-76; Vice-Pres. Montedison, France. *Leisure interests:* photography, golf. *Address:* 8 *bis* rue Marguerite, 75017 Paris, France. *Telephone:* 227-5351.

LUCKHOO, Sir Lionel Alfred, K.C.M.G., C.B.E., Q.C.; Guyanese barrister and diplomatist; b. 2 March 1914, Guyana; 3rd s. of Edward and Evelyn Luckhoo; two s. three d.; ed. Queen's Coll., Georgetown, Guyana, and Middle Temple, London; mem. Legis. Council, British Guiana 1949, State Council 1952; mem. Exec. Council and Minister without Portfolio 1953; mem. Interim Govt. 1953; mem. Georgetown Municipality for fifteen years; Mayor of Georgetown four times; Chair. Georgetown Sewage and Water Comms., Public Health Comm., Fire Comm., Chair. numerous other Cttees.; Pres. four Trade Unions; rep. Guyana at several confs. throughout world; High Commr. for Guyana in U.K. 1966-70, for Barbados 1966-70, Amb. of Guyana and Barbados to France, Fed. Repub. of Germany and Netherlands 1967-70; retd. from diplomatic service 1972; private law practice 1972- ("World's Most Successful Advocate", 225 murder acquittals without a single conviction to date, March 1979, Guinness Book of Records); Pres. Guyana Olympic Cttee.; Chair. Red Cross Guyana. *Publications:* The Fitzluck Theory of Horse Breeding 1952, I Believe, Life After Death, Sense of Values, God is Love, Christ is Coming, Xmas Story, My dear Atheist. *Leisure interests:* horse racing, cricket, magic, chess, bridge, short story writing. *Address:* Lot 1, Croal Street, Georgetown, Guyana.

LUDWIG, Christa; Austrian mezzo-soprano opera singer; b. 16 March 1928, Berlin, Germany; d. of Anton Ludwig and Eugenie Besalla-Ludwig; m. 1st Walter Berry (*q.v.*) 1957 (divorced 1970), one s.; m. 2nd Paul-Emile Deiber 1972; opera debut at 18, guest appearance at the Athens Festival in Epidauros 1965; joined Vienna State Opera 1955; appearances at Festivals in Salzburg, Bayreuth, Lucerne, Holland, Prague, Saratoga, Stockholm; guest appearances in season in Vienna, New York, Chicago, Buenos Aires, Scala Milano, Berlin, Munich; numerous recitals and soloist in concerts; recordings of Lieder and complete operas including Norma (with Maria Callas), Lohengrin, Cosí fan tutte, Der Rosenkavalier, Carmen, Götterdämmerung, Die Walküre, Herzog Blaubarts Burg, Don Giovanni, Die Zauberflöte, Figaros Hockzeit, Capriccio, Fidelio; winner of Bach-Concours, record award for Fricka in Walküre, and Des Knaben Wunderhorn; awarded title of Kammersängerin by Austrian Govt. 1962; Prix des Affaires Culturelles, for recording of Venus in Tannhäuser, Paris 1972. *Leisure interests:* music, archaeology, reading, home movie making, cooking, sewing, fashion, shopping, weaving, rug knitting and travelling. *Address:* c/o Staatsoper, 1010 Vienna, Opernring 2, Austria; Rigistrasse 14, Meggen, Switzerland (Home).

LUFT, Friedrich; German journalist; b. 24 Aug. 1911, Berlin; s. of Prof. Fritz and Mary (née Wilson) Luft; m. Heide Thilo 1940; ed. Univs. of Berlin and Königsberg (Kaliningrad); drama and film critic Die Neue Zeitung 1945-55, Süddeutsche Zeitung 1955-62, Die Welt 1955-, Berliner Morgenpost 1976-; weekly commentator on theatre and film for Radio RIAS, Berlin 1946-; mem. PEN Club; Fellow, Royal Soc. of Arts; Prof. h.c. *Publications:* Luftballons 1939, Tagesblätter von Urbanus 1947, Puella auf der Insel 1947, Köpfe (with Fritz Eschen) 1957, Altes-Neues Berlin 1959, Kritische Jahre, Berliner Theater 1945-61 1961, Luftspünge (essays) 1961, Stimme der Kritik 1965 Zille, Mein Photo-Milieu (ed.) 1967. *Address:* Maienstrasse 4, 1 Berlin 30, Federal Republic of Germany. *Telephone:* 0311-245873.

LUGAR, Richard Green, M.A.: American politician; b. 4 April 1932, Indianapolis, Ind.; s. of Marvin L. Lugar and Bertha Green Lugar; m. Charlene Smeltzer 1956; four s.; ed. Shortridge High School, Denison Univ., Ohio, Pembroke Coll., Oxford Univ.; Rhodes Scholar, Pembroke Coll., Oxford 1956; served U.S. Navy 1957-60; Vice-Pres. and Treas. Thomas Green & Co. Inc. 1960-67, Sec.-Treas. 1968-; Treas. Lugar Stock Farms Inc. 1960-; mem. Bd. of Trustees, Denison Univ. 1966-, Advisory Bd., Ind. Univ., Purdue Univ. at Indianapolis 1969-75, Bd. of Trustees of Ind. Cen. Univ. 1970; Vice-Chair. 1975, visiting Prof. of Political Science, Dir. of Public Affairs 1975-76; mem. Visiting Cttee. of Harvard—M.I.T. Joint Centre for Urban Studies 1973-; mem. Bd. of Dirs., Indianapolis Centre for Advanced Research 1973-76; mem. Indianapolis Bd. of School Commrs. 1964-67, Vice-Pres. 1965; Mayor of Indianapolis 1968-75; del. and keynote speaker, Ind. Republican Convention 1968, del. 1972; del mem. Platform Cttee., Repub. Nat. Convention 1968, del., keynote speaker and mem. Platform Cttee. 1972; Candidate for U.S. Senate 1974, Senator from Indiana 1977-; mem. Advisory Comm. on Intergovernmental Relations 1969-75, Vice-Chair. 1970-75; mem. Advisory Bd. of U.S. Conf. of Mayors 1969-75; mem. Pres. Model Cities Advisory Task Force 1969-70, State and Local Govt. Advisory Cttee. of Office of Econ. Opportunity 1969-73, Nat. Advisory Comm. on Criminal Justice Standards and Goals 1971-73; Pres. of Advisory Council, Nat. League of Cities 1971, mem. Council 1972-75; mem. Bd. of Dirs. of Westview Osteopathic Hosp. 1969-76, also of Indianapolis Symphony Orch.; mem. Nat. Acad. of Public Admin., Rotary Club of Indianapolis and other civic orgs., Hon. Doctorates from 17 colls. and univs. in U.S.A. 1970-78; Exceptional Service Award, Office of Econ., Opportunity 1972, Fiorello LaGuardia Award, New School of Social Research 1975. *Leisure interests:* music, reading, running, golf, tennis. *Address:* 5107 Dirksen Senate Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* (202) 224-4814.

LUKÁCS, Pál; Hungarian viola player; b. 27 April 1919, Budapest; soloist, Nat. Opera House 1947-; Prof. of Singing, Acad. of Music, Budapest 1946-47, Prof. of Viola 1947-, Vice-Rector; numerous concerts abroad; mem. jury Int. Geneva Competition 1963; Geneva Prize 1948; Kossuth Prize 1965; awarded Eminent Artist title 1971. *Address:* Academy of Music, Budapest; 1066 Budapest VI, Jókai-u. 1, Hungary. *Telephone:* 118-776.

ŁUKASZEWICZ, Jerzy; Polish politician; b. 24 Sept. 1931, Warsaw; ed. High School of Social Sciences, Warsaw; fmr. activist in youth orgs.; mem. Polish United Workers' Party (PUWP) 1951-; Head of Propaganda Dept. PUWP Warsaw Cttee. 1962-64; First Sec. PUWP District Cttee., Warszawa-Wola 1964-69; Deputy mem. Cen. Cttee. 1964-68, mem. 1968-, Sec. 1971-, Deputy mem. Political Bureau, Cen. Cttee. 1975-; Sec. PUWP Warsaw Cttee. 1969-72; mem. Presidium and Sec. All-Polish Cttee. of Nat. Unity Front Jan. 1972-; Deputy to Seym (Parl.) 1972-; Order of Banner of Labour (1st Class), Officer's and Chevalier's Cross of Order of Polonia Restituta, Medal of 30th Anniversary of People's Poland, and other decorations. *Address:* Komitet Centralny, Polska Zjednoczona Partia Robotnicza, Nowy Świat 6, Warsaw, Poland.

LUKE, 2nd Baron, of Pavenham; **Ian St. John Lawson Johnston,** K.C.V.O.; British business executive; b. 7 June 1905, London; s. of 1st Baron and Hon. Edith Laura; m. Barbara Anstruther-Gough-Calthorpe 1932; four s. one d.; ed. Eton Coll., Trinity Coll., Cambridge; Pres., Inc. Sales Managers Assen. 1953-56, Advertising Assen 1955-58, London Chamber of Commerce 1952-55; fmr. Chair. Bovril Ltd., Argentine Estates of Bovril Ltd., Virol Ltd.; Life Pres. (fmr. Chair.) Electrolux Ltd. 1978-; Chair. Nat. Playing Fields Assen. 1951-76, now Vice-Pres.; Chair. Gateway Bldg. Soc., Dir. Ashanti Goldfields Corpn. Ltd., Bunhill Holdings Ltd.; mem. Int. Olympic Cttee. 1951-; Nat. Vice-Pres. Royal British Legion; Pres. Inst. of Export 1973-; extensive farming interests, Bedfordshire. *Leisure interest:* gardening. *Address:* Odell Castle, Odell, Bedfordshire, MK43 7BB, England. *Telephone:* 0234-720-240

LUKE, Desmond Edgar Fashole, M.A.; Sierra Leonean diplomatist and barrister; b. Oct. 1935, Freetown; m. Florence Valerie Whitaker 1961; one d.; ed. Prince of Wales School, Freetown, King's Coll., Taunton, England, Keble Coll., Oxford; UN Human Rights Fellow, research in India 1964; Amb. to Fed. Repub. of Germany 1969, to Italy, Netherlands, Belgium and Luxembourg 1970, to France, Perm. Rep. to EEC 1971-73; Minister of External Affairs 1973-75, of Health 1977-78; leader of del. to IAEA Conf., Vienna 1970; Chair. Africa Int. Ltd. 1978-; mem. Sierra Leone Bar Assen., World Peace through Law Soc., American Soc. of Int. Law; Grand Order of Merit (Fed. Repub. of Germany), Grand Cordon of Order of Menelik II (Ethopia). *Leisure interests:* sports, art. *Address:* c/o Luke House, P.O. Box 214, Freetown, Sierra Leone.

LUKE, Sir Stephen Elliot Vyvyan, K.C.M.G.; British public servant and businessman (retd.); b. 26 Sept. 1905, Arnside; s. of Brigadier T. M. Luke, C.B.E., D.S.O.; m. 1st Helen Margaret Reinold 1929, and 2nd Margaret Stych 1948; two s. one d.; ed. St. George's School, Harpenden, Wadham Coll., Oxford; Asst. Clerk, House of Commons 1930; Colonial Office 1930; Under-Sec., Cabinet Office 1947-50; Asst. Under-Sec. of State, Colonial Office 1950-53; Comptroller for Devt. and Welfare for the West Indies and British Co-Chair. Caribbean Comm. 1953-58; Sr. Crown Agent Overseas Govts. and Admins. 1959-68; Dir. E. D. Sassoon Banking Co. Ltd. 1968-72, Pirelli Ltd. 1969-76, Go-Con Concrete Ltd. 1969-73, Caribbean Bank Ltd. 1969-75. *Leisure interests:* travel, gardening, walking. *Address:* Merryfields, Breamore, Hants. *Telephone:* Breamore 389.

LULE, Yusufu; Ugandan politician and academic; b. 1911; ed. Fort Hare Univ., S. Africa, Univ. of Edinburgh; Lecturer, Makerere Univ.; Minister in Ugandan Colonial Govt. 1954-61, then Chair. Uganda Public Service Comm.; fmr. Prin. Makerere Univ.; Asst. Sec.-Gen. in charge of Educ., Youth and Legal Div., Commonwealth Secr., London 1970-72; Sec.-Gen. Assen. of African Univs. 1972-79; Leader Ugandan Nat. Liberation Front (organization pledged to overthrow Pres. Amin) 1979; Pres. Interim Govt. of Uganda April-June 1979; C.-in-C. of the Armed Forces and Minister of Defence April-June 1979.

LULKA, Arkhip Mikhailovich; Soviet aircraft jet engine designer; b. 23 March 1908, Savarka, Kiev Region; s. of Mikhail and Alexandra Lulka; m. Galina Lulka 1930; two s. one d.; ed. Kiev Polytechnical Inst.; engineer researching into vapour turbines, Kharkov Turbo-Generator Works 1931-33; at Kharkov Aviation Inst. 1933-39, created first experimental turbo-compressor air-jet engine 1937-39; worked at Leningrad Cen. Boiler-Turbine Inst. 1939-41, other Insts. 1941-45; Prin. designs 1945-; first Soviet turbo-jet engine TR-1, AL-3, AL-5, AL-7F-1 turbo-jet engines; Prof. Moscow Aviation Inst. 1954-; Corresp. mem. U.S.S.R. Acad. of Sciences 1960-68, mem. 1968-; mem. CPSU 1947-; State Prizes 1948-51, Lenin prize laureate 1976; Hero of Socialist Labour 1957, Order of Lenin (three times), Order of October Revolution, Order of Red Banner of Labour (twice) and other decorations. *Leisure interests:* Ukrainian literature, particularly poetry. *Address;* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

LUMET, Sidney; American film director; b. 25 June 1924, Philadelphia; s. of Baruch Lumet; ed. Columbia Univ.; started as ■ child actor, later theatrical dir. and teacher; Assoc. Dir. CBS 1950, Dir. 1951-. *Films include:* Twelve Angry Men 1957, Stage Struck 1958, That Kind of Woman 1959, The Fugitive Kind 1960, A View from the Bridge 1961, Long Day's Journey into Night 1962, The Pawnbroker 1963, Fail Safe 1964, The Hill 1965, The Group 1965, The Deadly Affair 1966, Bye, Bye Braverman 1968, The Seagull 1968, The Appointment 1969, Blood Kin 1969, The Offence, The Anderson Tapes 1972, Child's Play 1973, Serpico 1973, Lovin' Molly 1974, Murder on the Orient Express 1974, Dog Day Afternoon 1975, Network 1976, Equus 77, The Wiz 1978.

LUMSDEN, James Alexander, M.B.E., LL.B.; British solicitor and company director; b. 24 Jan. 1915, Arden, Dunbartonshire; s. of the late Sir James Robert Lumsden and of Lady Lumsden (née Henrietta Macfarlane Reid); m. Sheila Cross 1947; three s.; ed. Rugby School and Corpus Christi Coll., Cambridge Univ.; Partner, Maclay Murray & Spens (Solicitors), Glasgow 1947; Dir. Burmah Oil Co. Ltd. 1957-76, Chair. 1971-75, Deputy Chair. 1975-76; Dir. Bank of Scotland, Scottish Provident Inst., The Weir Group Ltd., Scottish Western Investment Co. Ltd., and other companies. *Leisure interests:* shooting and other country pursuits. *Address:* Maclay Murray & Spens, 169 West George Street, Glasgow, G.2; Bannachra, by Helensburgh, Dunbartonshire, Scotland (Home). *Telephne:* 041-248-5011 (Office).

LUND, Svend Aage; Danish newspaper executive; b. 18 April 1900, Copenhagen; m. Charlotte Bertelsen 1929; two s. two d.; ed. Copenhagen Polytechnic; Sec. Assen. of Danish Employers 1927, Fed. of Danish Industries 1928; Sub-Ed. Berlingske Tidende 1929, Ed.-in-Chief Berlingske Tidende and Berlingske Aftenavis 1934-70; Chair. Fed. Danish newspapers 1958-68; Chair. Berlingske Tidende 1970-73. *Address:* Carl Baggers alle 8, Charlottenlund, Denmark. *Telephone:* (03) 637180.

LUND, Sir Thomas George, Kt., C.B.E.; British international lawyer; b. 6 Jan. 1906, London; s. of Kenneth F. Lund; m. Catherine Stirling (née Audsley) 1931; one d.; ed. Westminster School, London; admitted as Solicitor 1929; Asst. Solicitor, Law Soc. 1930, Asst. Sec. 1937-38, Act. Sec. 1938-39, Sec.-Gen. 1939-69; Treas. Int. Bar Assen. 1950-69, Dir.-Gen. 1969-78, Sec.-Gen. Int. Legal Aid Assen. 1963-; Chair. Bd. of Man., Coll. of Law 1962-69; fmr. Pres., British Acad. of Forensic Sciences; Local Dir. Sun, Alliance and London Insurance Group. *Publications:* The Solicitors' Act 1941, The International Bar Association, its Members and their Activities 1970, Professional Ethics 1970. *Leisure interests:* foreign travel, motoring, gardening. *Address:* International Bar Association, 93 Jermyn Street, London, SW1 6JE; 1 Bryanston Court, George Street, London, W.1; and Brass Tacks, Biddenden, Kent, England (Homes). *Telephone:* 01-930 6432 (Office).

LUNDBERG, Arne S.; Swedish business executive; b. 14 May 1911, Luleå; m.; one s. two d.; journalist 1929-44; specialist in Ministry of Communications 1944-47, Perm. Sec., Ministry of Communications 1947-51; Sec.-Gen., Ministry for Foreign Affairs 1951-56; Man Dir. Luossavaara-Kiirunawaara AB 1957-76; Chair. AB Svensk Exportkredit 1962-78, Swedish Mine-Owners' Assen. 1963-75, Byggherreföreningen 1964-, Norrbottens Järnverk AB 1967-70 (mem. Bd. 1960-70), Sveriges Investeringsbank 1967-, Oljeprospektering AB (OPAB) 1969-, Petroswede AB 1973-, Berol Kemi AB (petrochemical) 1973-78, Svenska Petroleum AB 1975-, Statsraff AB 1975-; Vice-Chair. Post-och Kreditbanken 1966-; mem. Bd. Swedish Ironmasters' Assen. 1962-76; mem. Swedish Acad. of Eng. Sciences (IVA) 1962-, Pres. 1974-76. *Leisure interests:* music, hunting, sailing. *Address:* Statsföretag AB, Hamngatan 6, Box 7827, S-103 97 Stockholm, Sweden. *Telephone:* 08-24 29 00.

LUNDBERG, Bo Klas Oskar, Dr. in Aeronautics; Swedish aircraft designer and aeronautical scientist; b. 1 Dec. 1907, Karlskoga; s. of Ehrenfried and Fanny Lundberg; m. Svea Maria Johansson 1935; two s. two d.; ed. Hudiksvalls Lâroverk and Royal Inst. of Technology, Stockholm; Designer Test Pilot, AB Svenska Järnvägsverkstäderna, Aeroplanavdelningen, Linköping 1931-35, Sparmanns flygplanverkstad, Stockholm 1935-37; Asst. Inspector at the Bd. of Civil Aviation, Stockholm 1937-38; Chief, Aeronautical Dept., Götaverken, Gothenburg 1939; Chief Designer, J-22 Fighter, Royal Air Bd. 1940-44; Chief, Structures Dept., Aeronautical Research Inst. of Sweden 1944-47, Dir.-Gen. 1947-67, Aviation Consultant 1967-; Fellow Royal Aeronautical Soc., Hon. Fellow American Inst. of Aeronautics and Astronautics, Fellow Canadian Aeronautics and Space Inst., Socio Onorario, Instituto Internazionale delle Comunicazioni; mem. American Assen. for the Advancement of Science, Fellow Royal Swedish Acad. of Eng. Sciences; Thulin Medal, Silver 1948, Gold 1955, Flight Safety Foundation Air Safety Award 1960, Sherman Fairchild Certificate of Merit 1963, Monsanto Aviation Safety Award 1963, Carl August Wicander Gold Medal 1966. *Publications include:* Fatigue Life of Airplane Structures (18th Wright Brothers Lecture) 1954, Should Supersonic Airliners be Permitted? 1961, Some Special Problems Connected with Supersonic Transport 1961, Speed and Safety in Civil Aviation (3rd Daniel and Florence Guggenheim Memorial Lecture) 1962, The Allotment of Probability Shares (APS) Method, ■ Guidance for Flight Safety Measures 1966, Economic and Social Aspects of Commercial Aviation at Supersonic Speeds 1972, Why the SST Should be Stopped Once and For All 1973; numerous articles and papers mainly on the problems of aircraft safety and supersonic transport. *Leisure interests:* golf, tennis. *Address:* Gubbkärrsvägen 29/9, 16151 Bromma, Sweden. *Telephone:* 08-87-75-92.

LUNDE, Ivar, LL.B.; Norwegian politician and diplomatist; b. 18 June 1908; ed. Oslo Univ.; Sec. Norwegian Consulate, Gdynia, Poland 1933-35; Attaché, France 1935-36; with Legation in Moscow 1938-43, concurrently Chargé d'affaires in Iran 1941; diplomatic posts Turkey, then Portugal 1943-45; Chief, Foreign Ministry's First Political Dept. 1946-47; Adviser, Perm. Mission of Norway to UN 1946-50, 1955; Chargé d'affaires, Greece and Israel 1950-52; Minister to Thailand and Indonesia 1952-56; Amb. to Turkey (concurrently to Iraq, Pakistan and Iran) 1956-61, to Finland 1961-65, to U.S.S.R. 1966-70, to Austria 1970-77. *Address:* c/o Ministry of Foreign Affairs, Oslo, Norway.

LUNDING, Franklin Jerome, LL.B.; American businessman; b. 26 Feb. 1906; ed. North Dakota and George Washington Univs.; with Research Dept. U.S. Chamber of Commerce 1927-28; Attorney Fed. Trade Comm. 1929-31; Gen. Counsel Jewel Tea Co. Inc. (Jewel Cos. Inc. since 1966) 1931, later Asst. to Pres. and Exec. Vice-Pres., Pres. 1942-51, Chair. Exec. Cttee. 1951-61, Chair. of Bd. 1954-65, Chair. Finance Cttee. 1965-71; Chair. Exec. Cttee. Lever Bros. Co. 1950-57; Chair. Fed. Reserve Bank of Chicago 1949-53, 1965-69; Hon. LL.D. (Univ. of North Dakota) 1949, (Marquette Univ.) 1956. *Publication:* Sharing ■ Business 1951. *Address:* 180 North La Salle Street, Chicago, Ill. 60601 (Office); 1630 Sheridan Road, Apt. 9M, Wilmette, Ill. 60091, U.S.A. (Home). *Telephone:* (312) 236-9119.

LUNDQUIST, Evert; Swedish artist; b. 17 July 1904; ed. Royal Acad. of Fine Arts, Stockholm; Prof., Royal Swedish Acad. of Fine Arts 1960-70; Exhbns. in London, Paris, New York, Chicago, Pittsburgh, San Francisco, Milan, Venice, Brussels, São Paulo; paintings in Tate Gallery, London, Musée d'Art Moderne, Paris, Museum of Modern Art, New York, Nat. Gallery, Melbourne, Museo de Arte Moderna, São Paulo, Moderna Museet, Stockholm; mem. Swedish Royal Acad.; Fellow of the Royal Soc. of Arts, London; Prince Eugene Medal. *Address:* Kanton, Drottningholm, Sweden.

LUNDQVIST, Svante; Swedish politician; b. 20 July 1919, Eskilstona; s. of Karl and Matilda Lundqvist; m. Maj- Britt Bernhardsson; one s. two d.; mem. Riksdag (Parl.) 1959-; mem. Exec. Social Democratic Party 1960-; Minister without Portfolio 1965, Minister of Communications 1967, of Physical Planning and Local Govt. 1969, of Agric. and the Environment 1973-76. *Leisure interests:* music, sport. *Address:* Socialdemokratiska Arbetarepartiet, Sveavägen 68, 105 60 Stockholm, Sweden.

LUNDVALL, (Dan) Björn (Hjalmar); Swedish electrical engineer and business executive; b. 12 Aug. 1920, Stockholm; s. of Dan Lundvall and Greta Segerström; m. Patricia Luke 1951; one s. two d.; ed. Royal Inst. of Technology, Stockholm, and Management Development Inst., Lausanne, Switzerland; Telefonaktiebolaget L. M. Ericsson 1943-, Head of Dept. of Research and Devt. of Carrier Telephone Systems 1954-57, Head of Marketing Activities of Long Distance Div. 1957-60, Man. of Long Distance Div. 1960-63, Deputy Man. Dir. 1963-64, Man. Dir. 1964-77, Chair. of Bd. 1977-; Knight Commdr. Order of Vasa; Knight Commdr. of Ordem de Rio Branco. *Leisure interest:* yachting. *Address:* Telefonaktiebolaget L. M. Ericsson, 126 25 Stockholm (Office); Oskar Baeckströms vag 11, 126 54 Hägersten, Sweden (Home). *Telephone:* Stockholm 7190000 (Office); 465530 (Home).

LUNEBURG, William V., B.SC., M.B.A.; American automobile executive; b. 22 May 1912, New York; m.; one s.; ed. New York Univ. and Harvard Business School; Dir. Textile Econs., Bureau of New York 1937; Financial Analyst, Ford Motor Co. 1949, later Man., Cost Control and Budget Dept., then Man., Rouge Assembly Plant 1956-59; Exec. Vice-Pres. Mather Spring Co., Toledo, Ohio 1959-63; Vice-Pres. (Finance), American Motors Corpn. 1963-65, Vice-Pres. (Automotive Mfg.) 1965-66, Group Vice-Pres. of Automotive Operations 1966-67, Pres. and Chief Operating Officer, American Motors Corpn. 1967-77; Dir. Motor Vehicle Mfrs. Assn., Maccabees Mutual Life Insurance Co., etc. *Address:* 2124 Brockman Boulevard, Ann Arbor, Michigan 48104, U.S.A. *Telephone:* 493-2531.

LUNENBERG, Engelbartus; Netherlands administrator; b. 11 Aug. 1922; s. of Albert J. Lunenberg and Maria P. van der Woerd; m. Bella Leonie Stein Pinto 1969; ed. Netherlands School of Econs. (now Erasmus Univ.), Rotterdam; Dir. UNESCO Centre, Nat. Comm. for UNESCO, Amsterdam 1951-53; Dept. of Foreign Relations, Ministry of Educ., Science and Culture 1953-54; Deputy Dir. Int. Statistical Inst. 1954-55, Dir. 1955-, Sec., Treasurer 1972-; Exec. Dir. Int. Assen. for Statistical Computing; Exec. Sec. Bernouilli Soc. for Math. Statistics and Probability; Sec.-Treas. Int. Assen. for Regional and Urban Statistics; Hon. Fellow, Royal Statistical Soc.; Order of the Rising Sun, 4th Class (Japan). *Address:* International Statistical Institute, 428 Prinses Beatrixlaan, Voorburg; 340 Parkweg, Voorburg, Netherlands (Home). *Telephone:* 070-694341 (Office); 070-871296 (Home).

LUNG PING-CHU; Chinese party official; Regimental Commdr. 1945; Maj.-Gen., Kansu Mil. Dist., PLA 1963, Political Commissar 1970-. *Address:* People's Republic of China.

LUNKOV, Nikolay Mitrofanovich; Soviet diplomatist; b. 7 Jan. 1919, Pavlovka, Ryazan Region; ed. Lomonosov Technical Inst., Moscow; Diplomatic Service 1943-; Asst. Minister of Foreign Affairs 1951-52; Deputy Political Counsellor, Soviet Control Comm. in Germany 1952-54; Counsellor, Stockholm 1954-57; Deputy Head, Dept. of Int. Orgs., Ministry of Foreign Affairs 1957, 3rd European Dept. 1957-59; Head of Scandinavian Div., Ministry of Foreign Affairs 1959-62; Amb. to Norway 1962-68; Head of Dept. of Cultural Relations with Foreign Countries 1968-73; Amb. to U.K. (also accred. to Malta) 1973-; mem. Cen. Auditing Comm. CPSU 1976-. *Address:* Embassy of the U.S.S.R., 13 Kensington Palace Gardens, London, W8 4QX, England. *Telephone:* 01-229 3628/9.

LUNS, Joseph Marie Antoine Hubert, G.C.M.G., C.H., D.C.L., LL.D.; Netherlands politician and diplomatist; b. 28 Aug. 1911, Rotterdam; m. Baroness Elisabeth Van Heemstra; one s. one d.; ed. Amsterdam and Brussels, Univs. of Leiden, Amsterdam, London and Berlin; Ministry of Foreign Affairs 1938-40; Attaché, Dutch Legation, Berne 1940-41, Lisbon 1941-42, Second Sec. 1942-43; Second Sec. Netherlands Ministry for Foreign Affairs, London 1943-44; Second, then First Sec. Dutch Embassy, London 1944-49; Perm. Del. to UN 1949-52; Co-Minister for Foreign Affairs 1952-56; Minister of Foreign Affairs 1956-71; Pres. NATO Council 1958-59; Sec.-Gen. NATO 1971-; Hon. Fellow, L.S.E.; Kt. Grand Cross of the Order of the Netherlands Lion, Officer Order of Orange-Nassau, Charlemagne Prize 1967, Hon. C.H. (U.K.) 1971, and foreign awards. *Publications:* Several studies on Netherlands Navy in British and Portuguese magazines and articles about current political problems in various magazines, incl. International Affairs and Atlantic Review. *Leisure interests:* swimming, walking, reading. *Address:* Secretary-General of NATO, Boulevard Léopold III, Brussels, Belgium

LUO YU-CHUAN; Chinese politician; Minister of Forestry Feb. 1979-. *Address:* People's Republic of China.

LUONG BANG, Nguyen (see Nguyen Luong Bang).

LUPU, Petre; Romanian politician; b. 25 Oct. 1920, Iaşi; m. Nesia Lupu; one s. one d.; ed. Acad. Stefan Gheorghiu; mem. Romanian Communist Party (RCP) 1936-; Sec. Iaşi District Cttee. of Union of Communist Youth (U.C.Y.) 1939; imprisoned for anti-fascist activities 1940-44; Sec. of Oltenia Region Cttee. of RCP 1944-45; Sec. Cen. Cttee. of U.C.Y. 1945-50; Deputy to Grand Nat. Assembly 1948-; mem. Cen. Cttee. of RCP 1955-, Alt. mem. Exec. Political Cttee. 1965-69, mem. 1969-; Chair. State Cttee. of Org. and Salary Problems 1966-69; Minister of Labour 1969-77; Chair. Cen. Party Coll. 1977-, Hero of Socialist Labour 1971. *Address:* Central Committee of the Romanian Communist Party, Bucharest, Romania.

LUPU, Radu, M.A.; Romanian pianist; b. 30 Nov. 1945, Galaţi; s. of Mayer Lupu and Ana Gabor; m. Elizabeth Wilson 1971; ed. High School, Braşov, Moscow Conservatoire, U.S.S.R.; first piano lessons 1951; won scholarship to Moscow 1961; entered Moscow Conservatoire 1963, graduated 1969; First Prize, Van Cliburn Competition 1966; First Prize, Enescu Int. Competition, Bucharest 1967; First Prize, Leeds Int. Competition 1969; a leading interpreter of the German classical composers; now lives in Britain and appears frequently with all the major orchestras; has toured Eastern Europe with London Symphony Orchestra; American debut 1972; records for Decca. *Leisure interests:* history, art, sport. *Address:* c/o Harrison Parrott Ltd., 22 Hillgate Street, London, W8 7SR, England. *Telephone:* 01-229 9166.

LURAGHI, Giuseppe; Italian business executive; b. 12 June 1905, Milan; s. of Felice Luraghi and Giuditta Talamona; m. Maria Magdalena Poli 1927; two s. three d.; ed. Univ. Commerciale Luigi Bocconi, Milan; started career in textile industry; with Pirelli Group 1930-50; Gen. Man. Finmeccanica Group 1951-56, and Dir. several subsid. and affiliated companies; Chair. and Man. Dir. Lanerossi S.p.A. 1956-60; Chair. Bd. of Dirs. Alfa Romeo S.p.A., Milan 1960-74, COGIS (Compagnia Generale Interscambi 1960-73, SICA 1967-74, Alfa Romeo-ALFASUD 1968-74, Necchi S.p.A. 1975, SOFIST (Società Finanziazia Sviluppo Tessile) 1975, Mondadori Editore S.p.A.; Deputy Chair. Ente Fiera Campionaria (Trade Fair), Milan; Dir. Piva S.p.A., Beretta S.p.A., Lanificio di Somma S.p.A. *Publications:* Le macchine della libertà, Capi si diventa, Due Milanesi alle piramidi, Miracolo a Porta Ticinese. *Address:* Via Revere 2, Milan, Italy. *Telephone:* 436984.

LURIA, Salvador Edward, M.D.; American professor of biology; b. 13 Aug. 1912, Turin, Italy; s. of David and Ester (Sacerdote) Luria; m. Zella Hurwitz 1945; one s.; ed. Univ. of Turin; Research Fellow, Inst. of Radium, Paris 1938-40; Research Asst., Columbia Univ. Medical School, N.Y. 1940-42; Guggenheim Fellow, Vanderbilt and Princeton Univs. 1942-43; Instructor in Bacteriology, Ind. Univ., Bloomington 1943-45, Asst. Prof. 1944-47, Assoc. Prof. 1947-50; Prof. of Bacteriology, Univ. of Ill., Urbana 1950-59; Prof. and Chair. Dept. of Microbiology, M.I.T. 1959-, Sedgwick Prof. of Biology 1964-, Inst. Prof. 1970-, Dir. Center for Cancer Research 1972-; Jessup Lecturer, Columbia Univ.; Nieuwland Lecturer, Univ. of Notre Dame; mem. Nat. Acad. of Sciences; Pres. American Soc. for Microbiology; Nobel Prize for Medicine (with Max Delbrück and A. D. Hershey, (*qq.v.*) 1969. *Publication:* Life: The Unfinished Experiment (Nat. Book Award) 1974. *Research interests*: bacterial genetics; bacterial viruses; structure of bacterial cell wall and membrane. *Address:* Department of Microbiology, Massachusetts Institute of Technology, Cambridge, Mass. 02139; 48 Peacock Farm Road, Lexington, Mass. 02173, U.S.A. (Home).

LURIE, Richard; South African stockbroker; b. 30 March 1918, Johannesburg; s. of the late A. C. Lurie; m. Lois Harris 1949; three s.; ed. King Edward VII School, Johannesburg, Univ. of the Witwatersrand; joined Johannesburg Stock Exchange 1946, mem. Exchange Cttee. 1960, Vice-Pres. 1970-72, 1976-77, Pres. of Exchange 1972-74 1978. *Address:* c/o Johannesburg Stock Exchange, P.O. Box 1174, Johannesburg, South Africa.

LUSAKA, Paul John Fermino; Zambian politician; b. 10 Jan. 1935, Broken Hill (now Kabwe); s. of Firmino Lusaka and Rabecca Mutakwa; m. Joan Gay 1963; four c.; ed. Univ. of Minnesota, Univ. of Basutoland and McGill Univ; Graduate Asst. Lecturer, Univ. of Basutoland 1960; Deputy High Commr. to U.K. 1966; Amb. to U.S.S.R. (also accred. to Yugoslavia, Romania, Czechoslovakia) 1968-72; Perm. Rep. to UN 1972-73; Minister of Rural Devt. 1973-76, of Power, Transport and Communications 1977-79; Perm, Rep. to UN 1979-; Sec.-Gen. Cen. Cttee. United Nat. Independence Party 1976-. *Address:* Zambian Mission to the United Nations, 150 East 58th Street, New York, N.Y. 10022, U.S.A.

LUSH, Jay L(aurence), PH.D.; American professor of animal breeding; b. 3 Jan. 1896, Shambaugh, Iowa; s. of Henry Lush and Mary Eliza (Pritchard) Lush; m. Adaline Lincoln 1923; one s. one d.; ed. Kansas State Agricultural Coll. (now Kansas State Univ.), Univs. of Wisconsin and Chicago and Royal Veterinary and Agricultural Coll. of Denmark; Animal Husbandman in Charge of

Breeding Investigations, Texas Agricultural Experiment Station, Coll. Station, Tex. 1921-29; Prof. of Animal Breeding, Iowa State Univ. (fmrly. Iowa State Coll.) 1930-, semi-retirement 1966-; Nat. Research Fellow, Denmark 1934; Visiting Prof. Rural Univ. of Minas Gerais, Brazil; Lecturer Food and Agricultural Org. Training Centre, India 1954, and missions for various orgs., in Britain, Australia and Argentina; mem. Nat. Acad. of Sciences; Hon. degrees (Uppsala, Giessen, Copenhagen, Michigan, Illinois, Kansas State, Wisconsin, Zurich, Norway); First Morrison Award, Borden Award in Dairy Production, Hermann von Nathusius Medal, Nat. Medal of Science 1968. *Publications:* Animal Breeding Plans 1937, The Genetics of Populations 1948. *Leisure interest:* travel. *Address:* 3226 Oakland Street, Ames, Iowa 50010, U.S.A. *Telephone:* 515-292-1344.

LÜST, Reimar, DR.RER.NAT.; German physicist; b. 25 March 1923, Barmen; s. of Hero and Grete (née Strunck) Lüst; m. Dr. Rhea Kulka 1935; two s.; ed. Univs. of Frankfurt/M and Göttingen; Research Physicist, Max Planck Insts. Göttingen and Munich 1950-60, Enrico Fermi Inst., Univ. of Chicago 1955-56, Princeton Univ. 1956; Head, Dept. for Extraterrestrial Physics, Max Planck Inst. for Physics and Astrophysics 1960, Dir. Inst. of Extraterrestrial Physics 1963-72; Visiting Prof., Univ. of New York 1959, M.I.T. 1961, Calif. Inst. of Tech. 1962, 1966; Chair. German Research Council 1969-72, Deutsche Gesellschaft für Luft-und Raumfahrt 1968-72; Pres. Max-Planck-Gesellschaft June 1972-; mem. Int. Acad. Astronautics, Royal Astronomical Soc., Bavarian Acad. Sciences; Hon. Foreign mem. American Acad. of Arts and Sciences; Officier Ordre des Palmes Académiques. *Publications:* articles on space research, astrophysics and plasmaphysics. *Address:* Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V., 8 München 2, Residenzstrasse 1a; 8000 München 45, Sondermeierstrasse 70, Federal Republic of Germany (Home).

LUSTIG, Arnošt; Czechoslovak writer; b. 21 Dec. 1926, Prague; s. of Emil and Terezie Lustig (née Löwy); m. Věra Weislitz 1949; one s. one d.; ed. Coll. of Political and Social Sciences, Prague; in concentration camps at Terezín, Auschwitz and Buchenwald, Second World War; Radio Prague corresp. in Arab-Israeli war 1948, 1949; Ed. Mladý svět (weekly) 1958-59, screenplay writer for Studio Barandov 1960-68, for Jadran-Film Yugoslavia 1969-70; now resident U.S.A.; mem. Cen. Cttee. Union of Czechoslovak Writers 1963-69, mem. Presidium 1963-69; mem. Int. Writing Program 1970-71; Visiting Lecturer Univ. of Iowa 1971-72; Visiting Prof. Drake Univ., Iowa 1972-73; Assoc. Prof. of Literature and Film, American Univ., Washington, D.C. 1973-; Klement Gottwald State Prize 1967; Bne'i Brit'h Prize 1974. *Publications:* Démanty noci (Diamonds of the Night—short stories, two of which were filmed 1961, 1964) 1958, Blue Day (story, filmed for TV) 1960, Night and Hope (short stories) filmed as Transport z ráje (Transport from Paradise) 1962, Modlitba pro Kateřinu Horovitzovou (A Prayer for Katerina Horovitzova—novel, filmed for TV) 1965, Dita Saxova (novel, filmed 1968), E 1962, The Street of Lost Brothers 1962, Nobody will be Humiliated (long stories) 1965, The White Birches in Autumn (novel) 1966, Bitter Smell of Almonds (novel) 1968, Darling (novel) 1969, Darkness Casts No Shadow (novel) 1976, Children of Holocaust (3 vols., collected stories) 1977-78, Z deníku sedmnáctileté Perly Sch. (From the diary of seventeen years old Pearl Sch.—novel) 1978; TV documentaries: Theresienstadt (U.S.A.) 1965, Stolen Childhood (Italy) 1966; text for symphonic poem Night and Hope (with Otmar Macha). *Leisure interests:* sport, swimming, travelling, skiing, soccer. *Address:* 4000 Tunlaw Road N. W., Apartment 825, Washington, D.C. 20007, U.S.A. *Telephone:* 202-3385357.

LUTERBACHER, Franz; Swiss lawyer and business executive; b. 11 Jan. 1918, Burgdorf; s. of Dr. Otto Luterbacher and Klara Morgenthaler; m. Felicitas Frey; one s. one d.; ed. Gymnasium Burgdorf, and Faculty of Law, Univ. of Berne; Head, Legal Dept., Fed. Finance Admin. 1948; Financial Man. Maschinenfabrik Oerlikon, Zurich 1954, Pres. Exec. Bd. 1958, Pres. Bd. of Dirs. 1964; Exec. Vice-Pres. Brown, Boveri and Cie. 1967, Chair. Bd. of Dirs. 1970-; Bd. of Dirs. Swiss Bank Corpn., Heberlein Holding AG, Wattwil; Supervisory Bd., Dresdner Bank AG, Frankfurt Hoechst AG, Frankfurt. *Leisure interest:* hiking. *Address:* Brown, Boveri et Cie., 5401 Baden; Im Maiacher, 8126 Zumikon, Switzerland (Home). *Telephone:* 056-75-11-11 (Office); 051-89-36-93 (Home).

LUTFI, Ashraf Taufiq, B.A.; Kuwaiti civil servant (retd.); b. 1 Jan. 1919, Jaffa, Palestine; s. of Taufiq and Murruat Lutfi; m. Winfriede Knoblich 1951; ed. Scots Coll., Safad, Palestine; teacher in elementary and secondary schools 1938-46, Welfare Officer 1946-48; Sec. to State Sec. in Govt. Secr. 1948-55, Asst. Sec. of State 1955-61; Dir. of Office of Emir of Kuwait 1961-64; Adviser on Oil Affairs, Ministry of Finance and Industry 1964-65; Sec.-Gen. Org. of Petroleum Exporting Countries (OPEC) 1965-67; Adviser on Oil Affairs to Ministry of Finance and Oil 1967-69; mem. Bd. Kuwait Nat. Petroleum Co. 1961-70; Chair. Bd. Kuwait Aviation Fuelling Co. 1962-71; Assoc. Dir., Petrologue Int., Beirut. *Publications:* Arab Oil: A Plan for the Future 1960, OPEC Oil: A Review of its Problems 1966. *Leisure interests:* tennis, music, travel, photography. *Address:* Gartenweg 3, 79 Ulm/Donau, Federal Republic of Germany.

LUTOSŁAWSKI, Witold; Polish composer and conductor; b. 25 Jan. 1913, Warsaw; s. of Józef and Maria Lutosławski; m. Maria-Danuta Dygat 1946; ed. Warsaw Conservatoire; mem. Swedish Royal Acad. of Music 1963-; Hon. mem. Freie Akademie der Künste Hamburg 1966-, Int. Soc. for Contemporary Music 1969-, Polish Composers' Union 1971-, American Acad. of Arts and Letters, Nat. Inst. of Arts and Letters 1975, R.A.M. 1976-, Guildhall School of Music 1978; Extraordinary mem. Akademie der Künste Berlin 1968-; Corresp. mem. Deutsche Akad. der Künste, Berlin (D.D.R.) 1970-, Bayerische Akademie der schönen Künste, Munich 1973; Vice-Pres. Polish Composers' Union 1973-; Hon. D.Mus. (Cleveland Inst. of Music) 1971, (Glasgow Univ.) 1977, Dr. h.c. (Univ. Warsaw) 1973, (Lancaster Univ.) 1975, Hon. Dr. Fine Arts (Northwestern Univ. Evanston-Chicago) 1974, City of Warsaw Music Prize 1948, Polish Music Festival Prize 1951, State Prizes 1952, 1955, 1964, 1978 (First Class), Prime Minister's Prize for Children's Music 1954, Polish Composers' Union's Prize 1959 and 1973, Minister of Culture's Prize 1962, Koussevitzky Int. Recording Award 1964; Plaque of the Freie Akad. der Künste, Hamburg 1966, Gottfried-von-Herder Prize, Vienna 1967; Sonning Music Prize, Copenhagen 1967; Award Int. Rostrum of Composers, UNESCO 1958, 1964, 1968; Prize ad honorem of Pres. of France 1971; Maurice Ravel Prize 1971, Prize Sibelius de Wihuri 1973; Order of Builder of People's Poland 1977. *Works include:* Symphonic Variations 1938, Variations on a Theme of Paganini (two pianos) 1941, Folk Melodies (piano) 1945, Symphony 1947, Overture (string orch.) 1949, Little Suite for Orchestra 1951, Silesian Triptych (voice and orch.) 1951, Bucoliques for Piano 1952, Dance Preludes (clarinet) 1953, Concerto for Orchestra 1954, Musique Funèbre (string orch.) 1958, Five Songs (female voice and instruments) 1958, Jeux vénitiens 1961, Trois poèmes d'Henri Michaux (choir and orch.) 1963, String Quartet 1964, Paroles tissées (tenor and chamber orch.) 1965, Second Symphony 1967, Livre pour orchestre 1968, Concerto for Cello and Orchestra 1970, Preludes and Fugue for 13 Solo Strings 1972, Les espaces du sommeil (for baritone voice and orchestra) 1975, Mi-parti (for orchestra) 1976; chamber, piano, vocal and children's music; compositions for theatre, films and radio. *Leisure interests:* literature, other arts, yachting. *Address:* Ul Śmiała 39, 01523 Warsaw, Poland. *Telephone:* 39 23 90.

LUTYENS, Elisabeth, C.B.E.; British composer; b. 9 July 1906, London; d. of late Sir Edwin Lutyens, O.M. (architect); m. 1st Ian Glennie 1931, 2nd Edward Clark 1940; two s. two d.; ed. Ecole normale de musique, Paris, and Royal Coll. of Music, London; First film score 1944, radio score 1946; sole agent The Olivan Press Universal Edn.; Hon. D. Mus. (York) 1977. *Major works:* O saisons, O châteaux (cantata for soprano and strings) 1946, The Pit (dramatic scene) 1947, String Quartet No. 1 1952, Motet (Wittgenstein) 1953, Music for Orchestra I 1954, Valediction (for clarinet and piano) 1956, Infidelio (for soprano and tenor soli and instruments) 1956, De Amore (cantata) 1957, Wind Quintet 1960, Quincunx (for large orchestra) 1959-60, Symphonies (for piano, solo, harp and percussion) 1961, Catena (for soprano and tenor soli and 22 instruments) 1962, Music for Orchestra II 1963, Music for Orchestra III 1964, String Trio No. 2 1964, Scena (for violin, cello and percussion) 1964, Hymn of Man (for men's chorus) 1965, The Valley of Hatsu-se (for soprano and four instruments) 1965, In the Temple of a Bird's Wing (song cycle) 1965, Akapotik Rose (for soprano and instrumental ensemble) 1966, And Suddenly it's Evening (for tenor and instrumental ensemble) 1966, Novenaria (for orchestra) 1967, Essence for our Happinesses (for tenor, chorus and orchestra) 1968, Temenos (for organ), Requiescat (Igor Stravinsky) (for soprano and string trio) 1971, The Tears of Night (for countertenor, six sopranos and three instrumental ensembles) 1971, The Linnet from the Leaf (for five singers and two instrumental groups) 1972, Rape of the Moone (for wind octet) 1973, The Numbered (opera), Time off? Not a Ghost of a Chance! (a charade), Isis and Osiris (opera), Winter of the World (for orchestra) 1974, about 100 film scores and 100 radio scores. *Publication:* A Goldfish Bowl (autobiog.) 1972. *Address:* 13 King Henry's Road, London, N.W.3, England. *Telephone:* 01-722 8505.

LUVSANGOMBO, Sonomyn; Mongolian politician; b. 1924; ed. Higher Mil. School, Ulan Bator, Acad. of Mil. Eng., U.S.S.R. and Higher School of Civil Eng.; army technician, instructor, divisional supply officer 1948-56; Sr. Eng., Ministry of Construction 1956-59;

Deputy and First Deputy Minister of Construction and Construction Materials Industry, Deputy Chair. State Construction Cttee. 1959-71; Chair. Exec. Cttee. of Ulan Bator People's Deputies' Hural (Assembly) 1971-72; Deputy Chair. Council of Ministers 1972-; Chair. Construction and Architecture Comm.; Deputy to People's Great Hural (Assembly); Cand. mem. Mongolian People's Revolutionary Party Cen. Cttee. 1966-71, mem. Cen. Cttee. 1971-; Order of the Pole Star, Order of the Red Banner of Labour. *Address:* Government Palace, Ulan Bator, Mongolia.

LUVSANRAVDAN, Namsrayn; Mongolian politician; b. 6 Feb. 1923; schoolmaster 1943-45: Head of dept. in Ministry of Educ. 1945-50: Head of dept. in Ulan-Bator City Cttee., MPRP 1950-53, Second Sec. Ulan-Bator City Cttee.; mem. Presidium, People's Great Hural (Assembly) 1963-, Deputy Chair. 1963-66, 1969-71, 1977-; First Sec. Ulan Bator Cttee., Mongolian People's Revolutionary Party (MPRP) 1960; cand. mem. Political Bureau, MPRP Cen. Cttee. 1960-71, mem. Political Bureau 1971-; Chair. Party Control Cttee. of MPRP Cen. Cttee. 1963-; Order of Sühbaatar. *Address:* Central Committee of the Mongolian People's Revolutionary Party, Ulan Bator, Mongolia.

LUXEMBOURG, Grand Duke of (*see* Jean).

LUYT, Sir Richard Edmonds, G.C.M.G., K.C.V.O., D.C.M., M.A., LL.D.; South African (sometime British) administrator; b. 8 Nov. 1915, Cape Town, South Africa; s. of Richard Robins Luyt and Wilhelmina Roberta Frances Edmonds; m. 1st Jean Mary Wilder 1948 (died 1951), one d.; 2nd Eileen Betty Reid 1956; two s.; ed. Diocesan Coll., Rondebosch, Univ. of Cape Town and Trinity Coll., Oxford; Colonial Service, N. Rhodesia 1940; War Service 1940-45; Colonial Service, N. Rhodesia 1946-53; Labour Commr., Kenya 1954-57; Perm. Sec. Kenya Govt. 1957-60, Sec. to Cabinet 1960-61; Chief Sec. Govt. of N. Rhodesia 1962-64; Gov. and Commdr.-in-Chief, British Guiana 1964-66; Gov.-Gen. of Guyana May-Oct. 1966; Prin. and Vice-Chancellor Univ. of Cape Town 1968-80. *Leisure interests:* cricket, tennis, rugby, swimming, gardening, turtles, tortoises. *Address:* University of Cape Town, Rondebosch 7700, Cape Town, South Africa. *Telephone:* 69-4351.

LUYTEN, Norbert Alfons, PH.D.; Belgian university professor; b. 8 Aug. 1909, Antwerp; s. of Louis Luyten and Hendrika van Kuyk; ed. Catholic Univ., Louvain; Prof. of Philosophy, Ghent 1939-45; Prof. of Philosophical Anthropology, Univ. of Fribourg 1945-, Dean of Philosophical Faculty 1948-49, 1961-63; Rector 1956-58; Vice-Pres. Philosophical Soc., Fribourg; Vice-President Institut der Goerres Gesellschaft für interdiziplinäre Forschung.; Ed. Grenzfragen Freiburg, München, Consultant of Congregation of Christian Educ., Rome; mem. Swiss Philosophical Soc.; Assoc. mem. Soc. Philosophique de Louvain and other learned bodies. *Publications:* La condition corporelle de l'homme 1957, Unsterblichkeit 1957, Universität und Weltanschauung 1958, Teilhard de Chardin 1964, Recherche et culture 1965, Wetenschap en Geloof 1965, Ordo Rerum 1969, Problèmes actuels de la connaissance de Dieu 1969, L'université et l'intégration du savoir 1970, L'anthropologie de St. Thomas 1974, Das Menschenverständnis nach Thomas von Aquin 1976. *Address:* Albertinum, CH-1700 Fribourg, Switzerland. *Telephone:* 037-22-65-10.

LUYTEN, Willem Jacob, PH.D.; American professor of astronomy; b. 7 March 1899, Semarang, Netherlands East Indies; s. of Jacob Luyten and Marguerita C. Francken; m. Willemina Miedema 1930; one s. two d.; ed. Univs. of Amsterdam and Leiden; Fellow, Lick Observatory, Calif. 1921; Astronomer, Harvard Coll. Observatory 1923-30; Prof. of Astronomy, Univ. of Minnesota 1931-67, Prof. Emer. 1967-; Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences; Guggenheim Fellow 1928, 1937; Hon. D.Sc. (St. Andrews) 1971; Watson Medal, Nat. Acad. of Sciences 1965; Bruce Medal, Astron. Soc. of the Pacific 1968. *Publications:* about 400 different publications in all the major astronomical periodicals 1921-70. *Leisure interest:* Burgundy wines, Commdr. Confrérie des Chevaliers du Tastevin (Nuits St. Georges). *Address:* 211 Space Science Center, University of Minnesota, Minneapolis, Minn., U.S.A. *Telephone:* (612) 373-3366 (Office); (612) 333-8507 (Home).

LWIN, U; Burmese diplomatist and politician; b. 10 Dec. 1912; m.; two s. two d; fmr. officer, Burma army; Mil. Adviser, Burma Del. to UN Gen. Assembly 1953; Amb. to Fed. Germany 1966-71, also to Netherlands 1969-71; Perm. Rep. to UN 1971-72; Minister for Planning and Finance 1972-75, for Information 1975-77; Deputy Prime Minister 1974-77; withdrew from Cen. Cttee. of Burma Socialist Programme Party 1977. *Address:* c/o Ministry of Information, Rangoon, Burma.

LWOFF, André Michel; French scientist; b. 8 May 1902; ed. Lycée Voltaire, Univ. de Paris à la Sorbonne; joined Institut Pasteur 1921, Asst. 1925-29, Head of Lab. 1929-38, Head Dept. of Microbial Physiology 1938-68, mem. Bd. of Dirs. 1966-72; Prof. Microbiology, Univ. de Paris 1959-68; Head Cancer Research Inst., Villejuif 1968-72; Pres. French Family Planning Movement 1970-; mem. numerous French and foreign scientific socs.; mem. Acad. des Sciences 1976-; Foreign mem. Nat. Acad. Sciences U.S.A. 1955, Foreign mem. Royal Soc. London 1958, Foreign mem. U.S.S.R. Acad. of Medicine; Nobel Prize for Medicine (jointly with F. Jacob and J. Monod) 1965, Einstein Award 1967; Médaille de la Résistance, Commdr. Légion d'honneur. *Publications include:* Biological Order 1962. *Address:* 69 avenue de Suffren, 75007 Paris, France.

LYASHKO, Aleksandr Pavlovich; Soviet politician; b. 30 Nov. 1915; ed. Industrial Inst., Donetsk; Soviet Army 1941-45; mem. CPSU 1942-; engineer and party worker, Donetsk Region 1945-60; mem. Cen. Cttee. CPSU 1961-; First Sec. Donetsk District Cttee., CP of Ukraine 1960-63; Deputy to U.S.S.R. Supreme Soviet 1958–; Sec. Cen. Cttee. of CP of Ukraine 1963-66, Second Sec. 1966-69; Chair. Bureau of Cen. Cttee. of Ukraine CP for Management, Industry and Construction 1963-69; Chair. Presidium of Ukrainian S.S.R. Supreme Soviet, Vice-Chair. Presidium U.S.S.R. Supreme Soviet 1969-72; Chair. Council of Ministers Ukrainian S.S.R. June 1972-; mem. Politburo Cen. Cttee., CP of Ukraine; Deputy to Ukrainian S.S.R. Supreme Soviet; Order of Lenin (twice), and other decorations. *Address:* Council of Ministers of the Ukrainian S.S.R., Kiev, U.S.S.R.

LYET, J. Paul; American business executive; b. Philadelphia; m. Dorothy L. Storz; five c.; ed. Philadelphia Cen. High School and Univ. of Pennsylvania; joined Sperry Rand's New Holland Farm Equipment Div. 1943, Pres. 1969-71; Vice-Pres. Sperry Rand Corpn. 1970, Exec. Vice-Pres. and Dir. Oct. 1970, Chair. and Chief Exec. Officer 1972-78. *Address:* c/o Sperry Rand Corporation, 1290 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

LYLE, John O.; British business executive; b. 26 April 1918; ed. Uppingham School, Clare Coll., Cambridge; Tate and Lyle Ltd. 1945-, Dir. 1951-, Vice-Chair. 1962-64, Chair. 1964-78, Pres. March 1978-; Chair. Aims of Industry Council July 1978-. *Address:* Tate and Lyle Ltd., Sugar Quay, Lower Thames Street, London, EC3R 6DQ, England.

LYMPANY, Moura, C.B.E., F.R.A.M.; British concert pianist; b. 18 Aug. 1916, Saltash, Cornwall; d. of John and Beatrice Johnstone; ed. Belgium, Austria, England; first performance, Harrogate 1929; has played in U.S.A., Canada, South America, Australia, New Zealand, India and most European countries including the U.S.S.R. *Address:* c/o Ibbs & Tillet, 124 Wigmore Street, London, W.1, England.

LYNCH, John Mary, B.L.; Irish lawyer and politician; b. 15 Aug. 1917, Cork; s. of Daniel Lynch and Norah O'Donoghue; m. Mairin O'Connor 1946; ed. North Monastery, Cork, Univ. Coll., Cork, and King's Inns, Dublin; mem. Civil Service (Dept. of Justice) 1936-45; called to Bar 1945; mem. of Dáil Eireann (Parl.) 1948-; Alderman, Cork Corpn. 1950-57; Parl. Sec. to Govt. and to Minister for Lands 1951-54; Minister for Educ. 1957-59; Minister for Industry and Commerce 1959-65, for Finance 1965-66; Vice-Pres. Council of Europe 1958; Pres. Int. Labour Conf. 1962; Taoiseach (Prime Minister) 1966-73, July 1977-; Pres. Fianna Fáil (Republican Party) 1966-; Leader of the Opposition 1973-77; Hon. LL.D. (Dublin Univ.) 1967, (Nat. Univ. of Ireland) 1969, Hon. D.C.L. (Belmont Abbey, Univ. Coll., N. Carolina, U.S.A.) 1971; Grand Cross of Belgian Order of the Crown 1968. *Address:* Government Buildings, Upper Merrion Street, Dublin 2; 21 Garville Avenue, Rathgar, Dublin 6, Ireland (Home).

LYNCH, Patrick, M.A., M.R.I.A.; Irish university professor and public administrator; b. 1917, Dublin; s. of Daniel and Brigid Lynch; m. Mrs. Mary Crotty 1965; ed. Univ. Coll., Dublin; joined Irish Civil Service 1941; served Finance Dept. 1941-48; Asst. Sec. Dept. of Prime Minister 1950-52; Lecturer, Nat. Univ. of Ireland 1952-66; Chair. Aer Lingus 1954-75, Capital Investment Advisory Cttee.; Chair. Inst. of Public Admin. 1973-76, Medico-Social Research Bd. 1966-72; Dir. Allied Irish Banks; Dir. OECD Govt. Surveys Investment in Educ. and Research and Devt. 1962-66; mem. Governing Body, Univ. Coll., Dublin 1964-76; mem. Senate Nat. Univ. of Ireland 1972-77; Fellow Commoner, Peterhouse, Cambridge; Assoc. Prof. of Political Econ. (Applied Econs.) 1966-75, Prof. 1975-; Treas. Royal Irish Academy 1971-; mem. Nat. Science Council 1967-77, Higher Educ. Authority 1968-72, Club of Rome 1973, EEC Group EMU 1980 1974-75, Exec. Council, European Science Foundation 1975-77; Deputy Chair. Allied Irish Banks 1976; Dir. Allied Irish Finance Co. 1976. *Publications:* The Economics of

Independence 1959, Planning for Economic Development (with C. F. Carter) 1959, Guinness's Brewery in the Irish Economy (with J. Vaizey) 1960, The Role of Public Enterprises in Ireland 1961, essays on The Irish Economy in Conor Cruise O'Brien introduces Ireland 1969, Ireland in the War Years and after (ed. Nowlan and Williams) 1969, Ireland in the International Labour Organization (with B. Hillery) 1970, Economics of Educational Costing (with J. Vaizey) 1971, Readings in Public Administration (ed. with B. Chubb) 1971, essay in Travel and Transport in Ireland (ed. K. B. Nowlan) 1973. *Address:* 68 Marlborough Road, Dublin 4, Ireland.

LYNCH, the Rt. Hon. Philip Reginald, P.C., B.A., DIP.ED.; Australian politician; b. 27 July 1933, Melbourne; s. of Mr. and Mrs. R. T. Lynch; m. Leah O'Toole 1958; three s.; ed. Marist Bros. Coll., Hawthorn, Xavier Coll., Melbourne, Univ. of Melbourne; fmr. school teacher; management consultant; fmr. co. dir.; fmr. Pres. Victorian Young Liberal Movement; mem. House of Reps. 1966-; Minister for the Army 1968-69; Minister for Immigration and assisting Treasurer 1969-71; Minister for Labour and Nat. Service 1971-72; Deputy Leader of the Opposition, House of Reps. 1972-75; Deputy Leader Fed. Parl. Liberal Party 1972-; Treas. 1975-77; Minister for Dept. of Finance 1976-77, for Industry and Commerce Dec. 1977-; del. to numerous confs., incl. Ministerial Council of OECD, Paris 1970, 1976, 1977, Annual Meeting, IMF and World Bank, Manila 1976, Washington, D.C. 1977; Fellow, Inst. of Dirs., Australian Inst. of Management; Liberal. *Leisure interests:* tennis, swimming, reading, sailing. *Address:* House of Representatives, Canberra, A.C.T.; "The Moorings", Denistoun Avenue, Mt. Eliza, Victoria 3930, Australia (Home).

LYNDEN, Baron Carel Diederic Aernout van, LL.D., Netherlands economist and politician; b. 23 Aug. 1915; Amsterdam; m. Françoise Banzet 1947; three d.; ed. Law Faculty, Univ. of Leiden; Head of Dept. in Monetary Agreements of Nederlandsche Bank, Amsterdam 1945-53; mem. Man. Bd. of European Payments Union, Paris 1950-51; Alternative Head of Dutch del. at Conf. on German External Debts in London 1951-52; Asst. Man. Finance Dept. of High Authority of European Community for Coal and Steel, Luxembourg 1953-56; Sec.-Gen. Benelux Econ. Union, Brussels 1956-75 (retd.), Europalia, Brussels 1976-77; Officer, Order of Orange-Nassau (Netherlands), Order of Merit (Italy); Knight, Order of Netherlands Lion; Order of the Crown (Belgium); Grand Officer, Order of Merit (Luxembourg). *Leisure interest:* modern art. *Address:* Rue Général Lotz 103, Bte 16, 1180 Brussels, Belgium. *Telephone:* 347-07-47.

LYNDEN, Baron Rijnhard Bernhard van, LL.M.; Netherlands diplomatist; b. 11 Aug. 1912, The Hague; s. of Baron W. J. van Lynden and Anna van Hangest Baroness d'Yvoy; m. Baroness Ada C. van Pallandt 1939; two s. three d.; ed. Univ. of Utrecht and London School of Econs.; entered Netherlands Foreign Service 1939, served in Paris, Berne, Rome, Pretoria and Brussels 1939-59; Head, Dept. of European Affairs, Ministry of Foreign Affairs, 1959-61, Chief of Protocol 1961-64; Amb. to Greece 1964-69, to U.S.A. 1969-74; Knight, Order of Netherlands Lion, Officer, Order of Orange-Nassau and decorations from Greece, The Vatican, etc. *Leisure interests:* golf, riding, tennis, music. *Address:* c/o Ministry of Foreign Affairs, The Hague, Netherlands.

LYNEN, Feodor, DR. PHIL.; German biochemist; b. 6 April 1911; ed. Luitpold Oberrealschule and Ludwig-Maximilians-Universität, Munich; Dozent, Univ. of Munich 1942-46, Extraordinary Prof. 1947-53, Prof. of Biochemistry 1953-; Dir. Max Planck Inst. for Cell Chem., Munich 1954-72; Dir. Max Planck Inst. for Biochemistry 1972-; Foreign mem. Royal Soc., London 1975; Dr. med. h.c. (Freiburg), Dr. rer. nat. h.c. (Seoul), Dr. sc. h.c. (Miami), Dr. h.c. (Univ. René Descartes, Paris); Neuberg Medal, American Soc. of European Chemists and Pharmacists 1954; Liebig Award, German Chemical Soc. 1955; Carus Medal, Leopoldina Acad. 1961; Otto Warburg Medal, Soc. for Physiological Chem. 1963; Nobel Prize for Medicine 1964; Normann Medal, Deutsche Gesellschaft für Fettwissenschaft 1967; Orden Pour le mérite 1971. *Publications:* Der Weg von der "Aktivierten Essigsäure" zu den Terpenen und den Fettsäuren. *Address:* Max-Planck-Institut für Biochemie, 8033 Martinsried (Office); 813 Starberg, Schiesstättstrasse 10, Federal Republic of Germany (Home). *Telephone:* 0811-8585323.

LYNN, James Thomas; American lawyer and former government official; b. 27 Feb. 1927, Cleveland, Ohio; s. of Fred R. and Dorothea E. Lynn; m. Joan Miller 1954; one s. two d.; ed. Euclid Cen. High School, Adelbert Coll. of Western Reserve Univ., Harvard Law School; joined Cleveland law firm, Jones, Day, Cockley and Reavis 1951, Partner 1960-69; Gen. Counsel Dept. of Commerce 1969-71, Under-Sec. 1971-73; Sec. of Housing and Urban Devt. 1973-75; Dir. Office of Management and Budget 1975-77; partner in law firm Jones, Day, Reavis and Pogne 1977-. *Address:* 6736 Newbold Drive, Bethesda, Md. 20034, U.S.A.

LYNN, Dame Vera, D.B.E.; British singer; b. 20 March 1917; d. of Bertram Welch and Ann Welch; m. Harry Lewis 1941; one d.; ed. Brampton Road School, East Ham; joined singing troupe 1928; ran dancing school 1932; broadcast with Joe Loss and joined Charlie Kunz band 1935; singer with Ambrose Orchestra 1937-40, then went solo; voted most popular singer in Daily Express competition 1939; own radio show Sincerely Yours 1941-47; sang to troops abroad during Second World War, named "Forces' Sweetheart"; appeared in Applesauce, London 1941; post-war radio and TV shows and numerous appearances abroad including Denmark, Canada, South Africa and Australia; most successful record Auf Wiederseh'n; Hon. Citizen Winnipeg 1974; Freedom of City of London 1978. *Publication:* Vocal Refrain (autobiography) 1975.

LYON, Stanley Douglas, B.SC.ENG., A.M.I.C.E., F.B.I.M.; British engineer and industrialist; b. 22 June 1917, Edinburgh; s. of Ernest Hutcheon Lyon and late Helen Wilson Lyon; m. May Alexandra Jack 1941; three s.; ed. George Heriot's School and Edinburgh Univ.; joined ICI Ltd. 1946, Dyestuffs Div. 1946, Eng. Dir. Wilton Works 1957, Production Dir. Agricultural Div. 1962, Deputy Chair. Agricultural Div. 1964, Chair. Agricultural Div. 1966, Dir. ICI Ltd. 1968, Deputy Chair. 1972-77. *Leisure interests:* golf, tennis, gardening. *Address:* Bramble Carr, Danby, Whitby, North Yorkshire; 11 Billing Road, London, S.W.10, England. *Telephone:* Castleton (Yorks.) 505; 01-325 0815.

LYONS, Bernard, C.B.E., J.P., D.L.; British company executive; b. 30 March 1913, Leeds; m. Lucy Hurst 1938; three s. one d.; ed. Leeds Grammar School; mem. Leeds City Council 1951-65; Chair. Yorkshire and N.E. Conciliation Cttee. of Race Relations Bd. 1968-70; mem. Community Relations Comm. 1970-72; Man. Dir. UDS Group Ltd. 73-79, Chair. 1979-; Life Pres. Leeds Jewish Representative Council; J.P. Leeds 1960; D.L. West Riding of Yorkshire 1971; Hon. LL.D. (Leeds Univ.) 1973. *Leisure interest:* farming. *Address:* Upton Wood, Fulmer, Bucks, England. *Telephone:* Fulmer 2404.

LYONS, Eric (Alfred), C.B.E., F.S.I.A.D.; British architect; b. 2 Oct. 1912, London; s. of Benjamin and Caroline Lyons; m. Catherine Joyce Townsend 1944; two s. two d.; ed. The Polytechnic School of Architecture; in practice as private consultant architect 1945-; Partnership Geoffrey Townsend 1945-50; Partner, Eric Lyons Cunningham Partnership 1963-; mem. R.I.B.A. Council 1960-63, 1977-, Vice-Pres. R.I.B.A. 1967-68, Sr. Vice-Pres. 1974, Pres. 1975-77; Distinction in Town Planning, R.I.B.A. 1961; Hon. F.A.I.A. 1963; Architecture Award, R.I.B.A. 1966, 11 Housing Medal Awards, 6 Civic Trust Awards. *Principal works:* housing for Span at Blackheath, Ham, Weybridge, Cambridge; housing, schools, planning for various authorities. *Leisure interests:* music, drama. *Address:* Mill House Studio, Bridge Road, Hampton Court, Surrey, England. *Telephone:* 01-979 7241.

LYONS, Sir William, Kt., R.D.I., D.TECH., F.R.S.A.; British businessman; b. 4 Oct. 1901; s. of William and Mary Lyons; m. Greta Brown 1924; one s. (deceased) two d.; ed. Arnold School, Blackpool; founded, in partnership, Swallow Sidecar Co. 1922, now Jaguar Cars Ltd., Chair. and Chief Exec. until 1972; Pres. Soc. of Motor Mfrs. and Traders Ltd. 1950-51; Pres. Motor Industry Research Assn. 1954; Pres. Motor Trades Benevolent Fund 1954; appointed Royal Designer for Industry by the Royal Soc. of Arts 1954; Pres. Fellowship of the Motor Industry 1957-58; Pres. Jaguar Cars (British Leyland U.K.) Ltd.; fmr. Deputy Chair. British Leyland Motor Corpn. Ltd.; Chair. Daimler Co. Ltd., Jaguar Cars Ltd., Coventry Climax Engines Ltd. and other subsidiaries until retirement in 1972. *Leisure interest:* golf. *Address:* Wappenbury Hall, Wappenbury, Nr. Leamington Spa, Warwickshire, England.

LYTTELTON, Humphrey Richard Adeane; British bandleader and journalist; b. 23 May 1921; ed. Eton Coll.; Grenadier Guards 1941-46; Camberwell Art School 1947-48; formed own band 1948; cartoonist for London Daily Mail 1949-53; freelance journalist and leader of Humphrey Lyttelton's Band 1953-; recorded Parlophone 1950-60, Columbia 1960-63, Black Lion 1973-; contributor Melody Maker 1954-, Reynolds News 1955-62, Sunday Citizen 1962-67, Harpers and Queen (Restaurant column) 1968-76; Compère BBC jazz programmes: Jazz Scene, Jazz Club, Jazz 625 (TV); frequent television appearances. *Publications:* I Play as I Please 1954, Second Chorus 1958, Take it from the Top 1975, The Best of Jazz—Basin Street to Harlem 1978. *Address:* 235 Regent Street, London, W.1, England.

M

NOTE: All names beginning Mc and Mac are treated as if they began Mac.

MA HUI; Chinese army officer; b. 1910; Div. Commdr. 1951; Maj.-Gen. People's Liberation Army 1960; Deputy Commdr. Hopei Mil. District, PLA 1964, Commdr. 1965-; Vice-Chair. Hopei Revolutionary Cttee. 1968; Sec. CCP Hopei 1971-; mem. 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

MA LI; Chinese party official; Dir. Labour Bureau, Chungking 1950; Dir. Finance Dept., Hopei 1953; Vice-Gov. Hopei 1957-60; Sec. CCP Peking 1966; criticized during Cultural Revolution; Vice-Chair. Hopei Revolutionary Cttee. 1970; Sec. CCP, Hopei 1971-76; First Sec. CCP, Kweichow, and Chair. Kweichow Revolutionary Cttee. 1976; First Political Commissar Kweichow Mil. District 1977-; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

MA NING; Chinese air force officer; b. Chinyang, Honan; Regimental Commdr. 1946; Deputy Dir., Org. Dept., People's Liberation Army Gen. Political Dept. 1956; Commdr. Air Force Unit 7311, Kirin 1968; mem. 10th Cen. Cttee. of CCP 1973; Commdr. of Air Force 1974-77. *Address:* People's Republic of China.

MAAG, Peter; Swiss conductor; b. 10 May 1919, St. Gall; s. of Otto and Nelly Maag; m. Yasmin Bufin 1956; one s.; ed. theology and philosophy studies at Zürich and Basel Univs.; studied piano with Alfred Cortot; began conducting in small theatre; Asst. to Ernest Ansermet, Orchestre de la Suisse Romande; Düsseldorf Opera 1952-55; Chief Conductor Bonn Opera 1956-59, Volksoper, Vienna 1962, Teatro Regio, Turin 1974; now Principal Guest Conductor Radiotelevisione Italiana (RAI); regular guest conductor at La Scala, Milan, Metropolitan Opera, New York, Teatro Colón, Buenos Aires, Venice, Royal Opera House, Covent Garden; also at various festivals incl. Aix-en-Provence, Zürich, Netherlands, Vienna, Salzburg; Toscanini Medal, Parma 1969, Verdi Medal 1973. *Leisure interest:* theology. *Address:* Casa Maag, 7504 Pontresina, Switzerland. *Telephone:* 82/66-50-0 and 61/35-20-34.

MAALØE, Ole Urban, M.D.; Danish professor of microbiology; b. 15 Aug. 1914, Copenhagen; s. of Carl Urban Maaløe and Betsy Skårup; m. Aase Johansen 1938; two s. one d.; Dir. of Dept. of Biological Standards, State Serum Inst., Copenhagen 1948-58; Head of Univ. Inst. of Microbiology, Copenhagen 1958-; Co-Editor Journal of Molecular Biology 1965-70; Chair. of ICSU standing Cttee. on Safeguard of the Pursuit of Science 1977-; mem. council of fifteen that founded European Molecular Biology Org. (EMBO) 1964; mem. Danish Pugwash Group 1960-, Danish Science Advisory Council 1970-72, Royal Danish Acad. of Sciences and Letters 1960-; American Acad. of Arts and Sciences 1968-; Anders Jahre Prize, Univ. of Olso 1968. *Publications:* On the Relation Between Alexin and Opsonin 1946; Control of Macromolecular Synthesis (with N. O. Kjeldgaard) 1966, Control of Ribosome Synthesis (Alfred Benzon Symposium IX, editor with N. O. Kjeldgaard) 1976. *Leisure interests:* books and paintings. *Address:* University Institute of Microbiology, Øster Farimagsgade 2A, 1353 Copenhagen K (Office); Ahlmanns Alle 38, 2900 Hellerup, Copenhagen, Denmark (Home). *Telephone:* (45) 1-158750 (Office); (45) 1-620485 (Home).

MAAZEL, Lorin; American conductor and musician; b. 6 March 1930; Neuilly, France; s. of Lincoln and Marie Varenioue Maazet; m. Israela Margalit; one s. three d.; ed. under Vladimir Bakaleinikoff and at Univ. of Pittsburgh; début as conductor 1938; Conductor, American Symphony Orchestras 1939-; violin recitalist; European début 1953; festivals include Bayreuth, Salzburg, Edinburgh; tours include South America, Australia, U.S.S.R. and Japan; Artistic Dir., Deutsche Oper Berlin 1965-71; Musical Dir. Radio Symphony Orchestra, Berlin 1965; Assoc. Principal Conductor, New Philharmonia Orchestra, London 1970-72; Dir. Cleveland Orchestra 1971-; Principal Guest Conductor, Orchestre Nat. de France 1977, London Philharmonica 1976; Hon. D.Mus. (Pittsburgh) 1968; D.Hum.Litt. (Beaver Coll.) 1973. *Leisure interests:* swimming, tennis, reading. *Address:* c/o The Cleveland Orchestra, Severance Hall, 11001 Euclid Avenue, Cleveland, Ohio 44106, U.S.A. *Telephone:* 216-231-7300.

MABE, Manabu; Brazilian (b. Japanese) painter; b. 1924, Kumamoto-Ken; s. of Soichi and Haru Mabe; m. Yoshino Mabe 1951; three s; abstract painter; exhbns. in countries all over the world; one-man exhbn., Museum of Fine Arts, Houston, Tex. 1970; Leiner Prize for Contemporary Arts 1957, Braun Prize 1959, Best Nat. Painter, São Paulo Bienal 1959, Fiat Prize Venice Biennale 1960, First Prize American Biennale, Cordoba 1962. *Leisure interest:* collecting pre-Columbian objects of art. *Address:* Rua das Canjeranas 321, Jabaquara, São Paulo, SP, and c/o Yutaka Sanematsu, Praça da Sé, 24 4° andar, São Paulo, SP, Brazil.

MABROUK, Ezzidin Ali, LL.M.; Libyan politician; b. 28 May 1932; ed. Cairo Univ. and Univ. Coll., London; Public Prosecutor, Tripoli 1956; subsequently Judge, Summary Court, Tripoli, Pres. Tripoli Court and Counsellor of Supreme Appeal Court; Sr. Legal Adviser, Org. of Petroleum Exporting Countries (OPEC); Minister of Petroleum, Libya 1970-77; Sec. for Petroleum, Gen. People's Cttee. March 1977-. *Address:* Ministry of Petroleum, P.O. Box 256, Tripoli, Libya.

MABROUK, Lieut.-Col. Saleh Abdel al-; Sudanese army officer; b. 1936, Kadogli; m.; two c.; ed. Military Coll.; commissioned 1959; Sec.-Gen. Revolutionary Command Council 1970; Minister of Youth, Sport and Social Affairs 1971-73, of Presidential Affairs 1973-74, of Egyptian Affairs in Sudan 1974-76. *Address:* c/o Ministry of Egyptian Affairs, Khartoum, Sudan.

MACADAM, Peter; British business executive; b. 9 Sept. 1921, Buenos Aires, Argentina; s. of Francis Macadam and Marjorie Mary Browne; m. Ann Musson 1949; three d.; ed. Buenos Aires, Stonyhurst Coll., Lancashire; joined British-American Tobacco Co. (BAT) Group in Argentina 1946; Chair., Gen. Man. Commander S.A. (BAT subsidiary) 1955-58; marketing post in Chile 1958-59; Personal Asst. to BAT Dir., London 1959-60; Chair., Gen. Man. BAT Co. (Hong Kong) Ltd. 1961-62; Dir. BAT Group 1963-, Chairman's Policy Cttee. 1970-, Chair. Tobacco Div. Bd. of Man. 1973-75, Chair. BAT Co. Ltd. 1976, BAT Industries Ltd. (parent co. of BAT Group following merger) 1976-; Chair. British Nat. Cttee. of Int. Chamber of Commerce 1978-; Dir. Nat. Westminster Bank 1978-. *Leisure interests:* golf, shooting. *Address:* BAT Industries Limited, Windsor House, 50 Victoria Street, London, SW1H 0NL (Office); 34 Campden Hill Court, Campden Hill Road, London, W8 7HS, England (Home). *Telephone:* 01-222 7979 (Office); 01-937 1389 (Home).

McAFEE, Jerry, SC.D.; American petroleum company executive; b. 3 Nov. 1916, Port Arthur, Tex.; s. of Almer McDuffie McAfee and Marguerite Calfee McAfee; m. Geraldine Smith 1940; three s. one d.; ed. Univ. of Texas and Massachusetts Inst. of Tech.; Research Chemical Eng., Universal Oil Products Co. 1940-45; Tech. Specialist, Gulf Oil Corpn. 1945-49; Dir., Chem. Div., Gulf Research and Devt. Co. 1950-51, Asst. Dir. of Research 1951-53, Vice-Pres. and Assoc. Dir. of Research 1954-55; Vice-Pres. Eng. Gulf Oil Corpn. 1955-60, Vice-Pres. Exec., Tech. Adviser 1960-64, Dir. Planning and Econ. 1962-64; Sr. Vice-Pres. of Gulf Oil Corpn. and Coordinator, Gulf Eastern Co., London, U.K. 1964-67; Exec. Vice-Pres. British American Oil Co., Toronto, Canada 1967-69; Pres. and Chief Exec. Officer, Gulf Oil Canada Ltd. 1969-76; Chair. and Chief Exec. Officer, Gulf Oil Corpn. 1976-. *Leisure interests:* tennis, fishing, reading. *Address:* Gulf Oil Corporation, P.O. Box 1166, Pittsburgh, Pa. 15230, U.S.A. *Telephone:* (412) 263-5202.

MACAPAGAL, Diosdado; Philippine politician; b. 28 Sept. 1910; ed. Santo Tomás Univ.; Diplomatic Service 1946-49, Second Sec., Washington, D.C. 1948; mem. House of Reps. 1949-57; Vice-Pres. of the Philippines 1957-61, Pres. 1961-65; Chair. Liberal Party 1957-61; Pres. Constitutional Convention 1971. *Address:* 92 Cambridge Circle, North Forbes Park, Makati, Rizal, The Philippines.

MACARRÓN JAIME, Ricardo; Spanish painter; b. 9 April 1926, Madrid; m. Alicia Macarrón Jaime 1951; two d.; ed. Escuela Superior de Bellas Artes de San Fernando, Madrid and scholarship in Paris; Prof. of Drawing and Painting, Escuela Superior de Bellas Artes, Madrid; has painted many portraits of royalty and nobility; mem. Royal Soc. of Portrait Painters 1962; numerous one-man exhbns. in Spain and abroad including two in London and one in New York; represented at Museo de Arte Contemporáneo, Madrid, Univ. of Oslo and Fundación Guell, Barcelona, portraits at the Royal Soc. of Portrait Painters; numerous awards. *Leisure interests:* walking in the country, hunting, playing chess. *Address:* Agustín de Bethencourt No. 7, Madrid 3, Spain.

MacARTHUR, Douglas, II; American diplomatist (retd.) and businessman; b. 5 July 1909, Bryn Mawr, Pa.; s. of Arthur Mac-

Arthur and Mary Hendry McCalla; m. Laura Louise Barkley 1934; one d.; ed. Milton Acad. and Yale Univ.; U.S. Army 1933-35; Foreign Service 1935-72; Vancouver 1935-36; Foreign Service School 1936; Italy 1937-38, Paris 1938-40, Lisbon 1940, Vichy 1940-42; interned by Nazis 1942-44; Asst. Political Adviser SHAEF 1944; Paris 1944-48, Brussels 1948-49; Chief, W. European Div., Dept. of State 1949-51; Political Adviser to Gen. Eisenhower at SHAPE 1951-52; Counsellor of the Dept. of State 1953-56; Amb. to Japan 1957-61, to Belgium 1961-65; Asst. Sec. of State for Congressional Relations 1965-67; Amb. to Austria 1967-69; Amb. to Iran 1969-72; Business Consultant and dir. of several Belgian and American companies 1972-; mem. Bd. American Chamber of Commerce in Belgium, Assn. et Chambre de Commerce Belgo-Japonaise, Assn. Belgo-Américaine; Gov. Ditchley Foundation. *Leisure interests:* shooting, hiking. *Address:* Rue Langeveld 65-Bte 8, 1180 Brussels, Belgium. *Telephone:* 02-374-99-14.

McAULIFFE, Eugene Vincent; American diplomatist; b. 25 Oct. 1918, Forest Hills, Mass.; s. of the late Thomas J. McAuliffe and Charlotte P. McAuliffe (née Metzger); m. Winifred Marie Gallivan 1946; six s. two d.; ed. Boston Public Latin School, Boston Coll., Boston Univ. Graduate Business Coll. and Nat. War Coll., Washington, D.C.; served with U.S. Army in Europe ■■ Cap. Infantry 1942-47; Vice-Consul and Exec. Sec. High Comm. in Germany 1948-54; with Exec. Secr. Dept. of State 1954-58; First Sec. Embassy in Mexico City 1958-62; studied Nat. War Coll. 1962-63; Dir. Office of Public Services, Dept. of State 1963-64, Exec. Sec. of Policy Planning Council 1964-66, Dir. NATO and Atlantic Political/Mil. Affairs 1966-68; Minister and Deputy Chief of Mission in Madrid 1968-70; Minister Counsellor and Political Adviser to Supreme Allied Commdr. Europe 1970-72, Minister Counsellor and Deputy Chief of Mission to NATO 1972-75; Amb. to Hungary 1975-76; Asst. Sec. for Defense (Int. Security Affairs) 1976-77; Pres. United Tech. (Europe) Inc.; Meritorious Honor Award, Dept. of State 1958, Distinguished Public Service Award, Dept. of Defense 1977. *Leisure interest:* bridge. *Address:* United Technologies (Europe) Inc., avenue Lloyd George 7, Brussels 1050, Belgium.

McBAIN, Ed (*see* Hunter, Evan).

MacBAIN, Gavin K.; American business executive; b. 9 July 1911, Closter, N.J.; m. Margaret Gristede; ed. Columbia Univ.; Sales Rep., Wood Struthers and Co., New York 1933-44; Asst. to the Treas. Bristol-Myers Co. 1944, Asst. Treas. 1945, Asst. Sec. 1946, Treas. 1947, Dir. 1961-65, Pres. 1965-67, Chair. of the Bd. 1967-77, Chief Exec. Officer 1967-72; Chair. of the Bd. and Pres., Gristede Brothers, Inc. 1961-65; Dir. United Mutual Savings Bank, First Fed. Savings and Loan Assn., U.S. Trust Co. of New York, Simplicity Pattern Co., Kennecott Copper Corp., J. C. Penney Co. Inc.; mem. Bd., Grocery Mfrs. of America; mem. Advisory Council, Nat. 4-H Club Foundation; Chair. Sponsors Cttee., Lexington School for the Deaf; fmrly. Chair. Council on Family Health and Nat. Chair. United Community Campaigns of America 1969; fmr. Pres. The Economic Club of New York. *Address:* 345 Park Avenue, New York, N.Y. 10022, U.S.A. (Office).

McBRIDE, Rt. Hon. Sir Philip Albert Martin, K.C.M.G., P.C., M.P.; Australian politician; b. 18 June 1892; ed. Burra Public School and Prince Alfred Coll.; Pres. Stockowners' Assn. of S. Australia 1930-31; mem. Fed. House of Reps. 1931-37, 1946-; Senator 1937-44; mem. War Cabinet 1939-40; Asst. Minister for Commerce 1939-40; Minister for Army 1940, for Supply and Devt. and Munitions 1940-41; Deputy Leader of Opposition 1941-43; Minister of the Interior 1949-51; Acting Minister for Defence March-Oct. 1950; Minister for the Navy and for Air May-July 1951; Minister for Defence 1950-58; Liberal. *Address:* 30 Briar Avenue, Medindi, S.A. 5082, Australia.

MacBRIDE, Séan, S.C.; Irish barrister and politician; b. 26 Jan. 1904, Paris, France; s. of the late Maj. John MacBride and late Maude Gonne; m. Catalina Bulfin 1926; one s. one d.; ed. St. Louis de Gonzague, Paris, Mount St. Benedict, and Nat. Univ. Dublin; imprisoned many times for Irish nationalistic activities; journalist for many years before being called to Bar 1937; called to Inner Bar 1943; founded Republican Party (Clann ■■ Poblachta) 1946; elected to Irish Parl. (Dáil Eireann) 1947, re-elected 1948, 1951, 1954 and 1957; Minister for External Affairs 1948-51; Pres. Council of Ministers, Council of Europe 1950; Vice-Pres. Council of OEEC 1948-51; Exec. mem. Pan European Union 1950; Irish Rep. to Council of Europe Assembly, and Rapporteur of Econ. Comm. 1954-57; mem. Ghana Bar; Sec.-Gen. Int. Comm. of Jurists 1963-70, Council of Minorities Rights Group; Chair. Exec., Int. Peace Bureau, Geneva, Special Non-Governmental Orgs. Cttee. on Human Rights, Geneva; Chair. Amnesty Int. 1970-73; UN Commr. for Namibia 1973-76; Chair. UNESCO study group on communication problems 1977-; Hon. mem. Institut des Sciences Administratives (Brussels); Hon. LL.D. (Coll. of St. Thomas, Minn.) 1975, (Guelph Univ., Canada) 1977, (Trinity Coll., Dublin) 1978; Hon. D.Litt. (Bradford) 1977; Nobel Peace Prize 1974, Lenin Peace Prize 1977, American Medal of Justice 1978. *Publications:* Civil Liberty 1948, Our People—Our Money 1951. *Leisure interest:* sailing. *Address:* United Nations Secretariat, New York, N.Y. 10017, U.S.A. (Office); Roebuck House, Clonskea, Dublin 14, Ireland (Home). *Telephone:* 694225 (Dublin).

McBRIDE, William James, M.B.E.; Irish rugby football player and banker; b. 6 June 1940, Toomebridge; s. of William James McBride and Irene Patterson; m. Penny Michael 1966; ■■■ s. ■■■ d.; ed. Ballymena Acad.; first played rugby for Ireland against England 1962; five Lions tours, S. Africa 1962, New Zealand 1966, S. Africa 1968, New Zealand 1971, S. Africa 1974; holder of 63 international caps (world record); 17 Test appearances for Lions (record); toured Argentina 1970 and Australia 1967 for Ireland; Asst. Bank Man. 1974-. *Leisure interests:* gardening, fishing. *Address:* Gorse Lodge, Ballyclare, Co. Antrim, Northern Ireland, United Kingdom. *Telephone:* Ballyclare 2710.

McCABE, John, MUS.B., F.R.M.C.M.; British musician; b. 21 April 1939, Huyton, Lancs. (now Merseyside); s. of Frank and Elisabeth (Herlitzius) McCabe; m. 1st Hilary Tann 1968 (divorced 1974); m. 2nd Monica Smith 1974; ed. Liverpool Inst. High School for Boys, Manchester Univ., Royal Manchester Coll. of Music, Staatliche Hochschule für Musik, Munich; Pianist-in-residence, University Coll., Cardiff 1965-68; travels world-wide ■■ pianist-composer; Royal Manchester Inst. Medal 1962, Royal Philharmonic Prize 1962, Special Citation, Koussevitsky Recording Foundation 1974, Award for service to British music, Composers Guild 1975. *Publications:* Rachmaninov, Bartok's Orchestral Music, and numerous articles on music; Compositions include The Chagall Windows, Variations on a theme of Hartmann, Notturni ed Alba, operas, ballets, symphonies, concertos, much orchestral and chamber music, vocal works and keyboard music; numerous piano recordings including complete piano works of Haydn and Nielsen. *Leisure interests:* books, films, cricket. *Address:* c/o Novello & Co. Ltd., 1-3 Upper James Street, London, W.1, England.

McCABE, Thomas Bayard, A.B.; American industrialist and banker; b. 11 July 1893, Whaleyville; m. Jeannette Laws 1924; three s.; ed. Swarthmore Coll.; Scott Paper Co., Pennsylvania, Sales-■■■ 1916-17, Asst. Sales Man. 1919-20, Sales Man. 1920-22, Dir. 1921-, Sec. and Sales Man. 1922-27, Vice-Pres. 1927, Pres. 1927-62, Chair. and Chief Exec. 1962-66, Chair. 1966-68, Chair. Finance Cttee. 1969-71; Dir. Fed. Reserve Bank of Philadelphia 1938-48, Chair. 1939-48; mem. Business Advisory Council, Dept. of Commerce 1940-, Chair. 1944-45; Exec. Asst. to Commr., Advisory Comm. to Council of Nat. Defense 1940; Deputy Dir., Div. of Priorities, Office of Production Man. 1941; Deputy Lend-Lease Admin. 1941-42; Army-Navy Liquidation Commr. 1945; Special Asst. to Sec. of State and Foreign Liquidation Commr. 1945-46; Chair., Bd. of Govs. of Fed. Reserve System, Wash., D.C. 1948-51; Chair. Bd. of Trustees Eisenhower Exchange Fellowships 1954-68, Hon. Chair. 1969-; Chair. Bd. of Trustees of the Marketing Science Inst. 1962-70, Hon. Chair. 1970; Trustee, Cttee. for Econ. Devt.; mem. U.S. Assocs. of the Int. Chamber of Commerce; American Del. to Congress of Int. Chamber of Commerce, Montreux 1947; Hon. LL.D.; awarded Medal of Merit 1946. *Address:* Scott Paper Company, Philadelphia, Pa. 19113 (Office); 607 North Chester Road, Swarthmore, Pa. 19081, U.S.A. (Home). *Telephone:* 521-5000.

McCAIN, James Allen, A.B., M.A., ED.D., D.SC., LL.D.; American university official; b. 8 Dec. 1907; s. of Frank Pickering McCain and Julia Allen; one d.; ed. Wofford Coll., Duke Univ. and Stanford Univ., Calif.; Asst. Prof. of English and Journalism Colo. State Univ. 1929-34; Asst. to Pres. Colo. State Univ. 1934-39, Dean of Students 1939-41, Dean of Vocational Educ. and Guidance, and Dir. of Summer Session 1941-42; on active duty ■■ officer-in-charge of Enlisted Classification Program, U.S. Navy, with rank of Lieut.-Commdr. 1942-45; Pres. Montana State Univ. 1945-50; Dir. and Chair. of the Bd. Helena Branch Fed. Reserve Bank of Minneapolis 1948-50; Pres. Kansas State Univ. 1950-76; Dir. Kansas State Chamber of Commerce 1954-57; mem. U.S. Nat. Comm. for UNESCO 1956-58; Eisenhower Int. Exchange Fellow 1957; Trustee Eisenhower Exchange Fellowships 1960, Menninger Foundation 1972-; mem. Advisory Council to Peace Corps 1961-, Advisory Cttee. to Export-Import Bank 1961-71, Advisory Bd. to Office of Econ. Analysis, Mid-America Governors' Transportation Cttee.; Dir. Acad. for Educational Devt. Inc., Eisenhower Library Comm., Kansas Research Foundation, Manhattan Mutual Life Insurance Co., Security Benefit Life Insurance Co., Dunlap and Assocs., Inc.;

Consultant to Univs. of Iran 1969; U.S. Comm. on Higher Educ. in Bogotá, Colombia 1970; Chair. Mid-America State Univs. Assn. 1973-; Hon. LL.D. (Wofford Coll., Colorado State Univ., Univ. of Montana), Hon. D.Sc. (Andhra Pradesh Agricultural Univ.); Dwight D. Eisenhower People-to-People Medallion for Outstanding Contributions to Int. Understanding 1969. *Publications:* Vocational Guidance for Vocational Teachers 1942, Vocational Education (with others) 1942, Education in the Armed Services (with others) 1942, Universities... and Development Assistance Abroad (with others) 1967. *Leisure interests:* music, golf, reading. *Address:* 1711 Sunny Slope Lane, Manhattan, Kan. 66502, U.S.A. (Home).

McCALL, Howard Weaver, Jr., B.A.; American banker; b. 11 Aug. 1907; ed. the McCallie School, Chattanooga, Tenn., Univ. of Virginia, and Graduate School of Banking, Rutgers Univ.; Chemical Bank 1928, Asst. Sec. 1937-41, Asst. Vice-Pres. 1941-45, Vice-Pres. 1945-55, Exec. Vice-Pres. 1955-60, First Vice-Pres. 1960-61, Vice-Chair. 1961-65, Pres. 1965-72, Adviser 1972-; Liggett Group Inc., Texaco Inc., Mass Mutual Income Investors Inc., Lykes Corpn. *Address:* 68 Dorchester Road, Darien, Conn. 06820, U.S.A.

McCALL, John Donald; British business executive; b. 1 Feb. 1911; s. of Gilbert Kerr McCall; m. Vere Stewart Gardner 1942; one s. one d.; ed. Clifton Coll. and Univ. of Edinburgh; gold mining industry, S. Africa 1930-39; served in Second World War 1939-45; joined Consolidated Gold Fields Ltd. 1946, Dir. 1959, Jt. Deputy Chair. 1968, Chair. 1969-76, non-exec. Dir. June 1976-; Dir. The Standard Bank Ltd., Ultramar Co. Ltd., Standard and Chartered Banking Group Ltd., U.K.-S. Africa Trade Assn. Ltd.; mem. Council Britain-Australia Soc. 1971-. *Leisure interests:* gardening, golf. *Address:* 49 Moorgate, London, EC2R 6BQ, England.

McCANCE, Sir Andrew, Kt., D.SC., LL.D., F.R.S., D.L.; British industrialist; b. 30 March 1889; s. of John McCance; m. Joya Harriett Gladys Burford 1936 (died 1969); two d.; ed. Morrison's Acad., Crieff, Allan Glen's School and Royal School of Mines, London; Asst. Armour Man., W. Beardmore and Co. 1910-19; Founder and Man. Dir. Clyde Alloy Steel Co. Ltd. 1919-30; mem. Scientific Advisory Council Dept. Scientific and Industrial Research 1941-47; fmr. Pres. Inst. Eng. and Shipbuilders, Scotland, Iron and Steel Inst. and Glasgow and W. Scotland Iron and Steel Inst., Glasgow; fmr. Pres. British Iron and Steel Fed.; fmr. Chair., Man. Dir. and Hon. Pres. Colvilles Ltd.; Pres. Clyde Alloy Steel Co. Ltd.; fmr. Dir. Nat. Commercial Bank of Scotland Ltd.; Chair. Colvilles-Clugston-Shanks Ltd. *Address:* 27 Broom Cliff, Newton Mearns, Glasgow, Scotland. *Telephone:* 041-639-5115.

McCANCE, Robert Alexander, C.B.E., PH.D., F.R.C.P., F.R.S.; British physician; b. 9 Dec. 1898, Belfast, N. Ireland; s. of John Stoupe Finlay McCance and Mary Bristow; m. Mary Lindsay (MacGregor) 1922; one s. one d.; ed. Mourne Grange, Co. Down, St. Bees School, Cumberland, and Sidney Sussex Coll., Cambridge; Royal Naval Air Service, including service with Grand Fleet 1917-19; undergraduate studies 1919-22; Biochemical research 1922-25; qualified in medicine 1927; Asst. Physician in charge of Biochemical Dept., King's Coll. Hospital 1934; Reader in Medicine, Cambridge Univ. 1938; Prof. of Experimental Medicine, Cambridge Univ. 1945-67; Fellow of Sidney Sussex Coll., Cambridge; Dir. Dept. of Experimental Medicine, Medical Research Council, 1945-67; Dir. Infant Malnutrition Unit, M.R.C., Kampala 1967-69; Triennial Gold Medal, West London Medico-Chirurgical Society 1949; hon. mem. American Pediatric Soc., Assn. of American Physicians, Swiss Soc. for Research in Nutrition; Conway Evans Prize 1960, James Spence Medal, British Paediatric Assn. 1961; Hon. D.Sc. (Belfast) 1964; Hon. F.R.C.O.G. *Leisure interests:* cycling, outdoor activities, natural observation. *Address:* 4 Kent House, Sussex Street, Cambridge, England.

McCANDLESS, Bruce, II; American astronaut; b. 8 June 1937, Boston, Mass.; s. of the late Rear-Adm. Bruce McCandless and late Mrs. Sue Worthington Bradley McCandless Inman; m. Bernice Doyle 1960; one s. one d.; ed. U.S. Naval Acad. and Stanford Univ.; flight training, Pensacola, Fla. and Kingsville, Tex.; weapons system and carrier landing training, Key West, Fla. 1960; carrier duty, Fighter Squadron 102 1960-64; instrument flight instructor, Attack Squadron 43, Naval Air Station, Apollo Soucek Field, Oceana, Va.; graduate studies in electrical eng., Stanford Univ. until 1966; selected by NASA as astronaut April 1966; Co-investigator Astronaut Manoeuvring Unit Experiment on Skylab 1968-74; back-up crew for first Skylab Mission 1973. *Leisure interests:* electronics, scuba diving, sailing, photography. *Address:* NASA Johnson Space Center, Houston, Tex. 77058, U.S.A. *Telephone:* 713-483-2421.

McCANN, Hugh James, B.SC.(ECON.); Irish diplomatist; b. 8 Feb. 1916; s. of Hugh J. McCann and Sophie Campbell; m. Mary V. Larkin 1950; four s. one d.; ed. London School of Econs., Univ. of London, Belvedere Coll., Dublin; Admin. Officer, Dept. of Industry and Commerce, Dublin 1940-41; Private Sec. to Minister for Industry and Commerce 1941-43; Superintending Officer, Dept. of Supplies 1943-44; Commercial Sec. Office of the High Commr. for Ireland, London 1944-46; First Sec. Dept. of External Affairs 1946-48; Counsellor, Irish Embassy, Washington, D.C. 1948-54; Minister to Switzerland and Austria 1954-56; Asst. Sec. to the Dept. of External Affairs 1956-58; Amb. to U.K. 1958-63; Sec. Dept. of Foreign Affairs, Dublin 1963-74; Amb. to France 1974- (concurrently to Morocco 1975-); Perm. Rep. of Ireland to OECD, Perm. Del. of Ireland to UNESCO. *Leisure interests:* reading, photography, golf. *Address:* Ambassade d'Irlande, 12 avenue Foch, 75016 Paris, France; and Frankfield, Mart Lane, Foxrock, Co. Dublin, Ireland. *Telephone:* 500-2087 (Paris); 893682 (Home).

McCANN, Most Rev. James, PH.D., D.D.; British Protestant ecclesiastic; b. 31 Oct. 1897; ed. Royal Belfast Academical Inst., Queen's Univ., Belfast and Trinity Coll., Dublin; Curate, Ballymena 1920-22, Ballyclare 1922-24, Cavan 1924-28, Oldcastle 1928-30; Rector, Donaghpatrick 1930-36, St. Mary's, Drogheda 1936-45; Canon, St. Patrick's Cathedral, Dublin 1944-45; Bishop of Meath 1945-59; Archbishop of Armagh and Primate of All Ireland 1959-69; Hon. LL.D. (Queen's Univ. Belfast) 1966; Ecclesiastical History Prize 1917, Elrington Theological Prize 1930. *Publication:* Asceticism: an historical study 1944. *Address:* c/o Rev. H. A. McCann, The Rectory, Begbroke, Oxford, England.

McCANN, H.E. Cardinal Owen, D.D., PH.D.; South African ecclesiastic; b. 26 June 1907, Cape Town; s. of late Edward McCann and Susan Mary Plint; ed. St. Joseph's Coll., Rondebosch, Univ. of Cape Town and Pontificium Collegium Urbanianum de Propaganda Fide; ordained priest 1925; Titular Bishop of Stettorio 1950; Archbishop of Cape Town 1951-; named Asst. at the Papal Throne 1960; created cardinal 1965; Hon. D.Litt. (Cape Town). *Address:* Archdiocesan Chancery, Cathedral Place, 12 Bouquet Street, Cape Town, South Africa. *Telephone:* 452419.

McCARDELL, Archie Richard, M.B.A.; American business executive; b. 29 Aug. 1926, Hazel Park, Mich.; s. of Archie and Josephine (Gauthier) McCardell; m. Margaret Edith Martin 1950; one s. two d.; ed. Univ. of Michigan; Finance Exec., Ford Motor Co. 1949-60; Sec.-Treas. Ford of Australia 1960-63; Finance Dir., Ford of Germany 1963-66; Group Vice-Pres. Corporate Services, Xerox Corpn. 1966-68, Exec. Vice-Pres. 1968-71, Pres. and Chief Operating Officer 1971-77; Pres. and Chief Exec. Officer Int. Harvester Co. 1978-. *Address:* International Harvester Company, 401 North Michigan Avenue, Chicago, Ill. 60611, U.S.A. (Office). *Telephone:* 313/836-2118.

McCARDLE, James Joachim, B.A.; Canadian diplomatist; b. 27 April 1922, Stratford, Ont.; s. of John Patrick McCardle and Mary Keegan; m. Lannie Roth Harrison 1948; one d.; ed. Univ. of Toronto; Canadian Army 1943-46; joined Foreign Service 1946; Canadian Liaison Office, Tokyo 1947-49; Dept. of External Affairs 1949-53; Canadian Embassy, Washington, D.C. 1953-56; Dept. of External Affairs 1956-59; Sec. of Canadian Section, Canada-U.S.A. Perm. Jt. Bd. on Defence 1956-59; Del. to N. Atlantic Council 1959-62; Dept. of External Affairs 1962-69; Amb. to Ireland 1969-72; High Commr. to Australia and Fiji 1972-77; Dir.-Gen. Bureau of Asian and Pacific Affairs, 1977-78, Bureau of Defence and Arms Control Affairs, Dept. of External Affairs 1978. *Leisure interests:* golf, bridge. *Address:* Department of External Affairs, 125 Sussex Drive, Ottawa, Ontario K1A 0W2, Canada. *Telephone:* (613) 992-3402 (Office).

McCARTHY, Eugene Joseph, M.A.; American politician; b. 29 March 1916, Watkins, Minn.; s. of late Michael J. McCarthy and Anna Baden McCarthy; m. Abigail Quigley 1945; one s. three d.; ed. St. John's Univ., Collegeville, Minn. and Minnesota Univ.; successively Prof. of Econs. and Educ., St. John's Univ., Collegeville, Minn.; Civilian Tech. Asst., War Dept. Mil. Intelligence Division; Acting Chair. Sociology Dept., St. Thomas Coll., St. Paul, Minn.; mem. U.S. House of Reps. (Fourth Minn. district) 1949-58; Senator from Minnesota 1959-70; Liberal Independent cand. for Presidency 1976; Adlai Stevenson Prof. of Political Science, New School for Social Research 1973-74; syndicated columnist 1977-; Hon. LL.D. (St. Louis) 1955; Cardinal Newman Award 1955. *Publications:* Frontiers in American Democracy 1960, Dictionary of American Politics 1962, A Liberal Answer to the Conservative Challenge 1964, The Limits of Power: America's Role in the World 1967, The Year of the People 1969, Other Things and the Aardvark (poems) 1970, The Hard Years 1975, Mr. Raccoon and his friends (children's stories) 1977, America Revisited 1978. *Address:* 1420 N Street, N.W., Washington, D.C. 20005, U.S.A. (Office). *Telephone:* (202) 483-2700.

McCARTHY, Mary; American writer; b. 21 June 1912, Seattle, Washington; d. of Roy Winfield McCarthy and Therese (née Preston) McCarthy; m. 1st Harold Johnsrud 1933; m. 2nd Edmund Wilson 1938, one s.; m. 3rd Bowden Broadwater 1946; m. 4th James West 1961; ed. Vassar Coll.; Theatre critic Partisan Review 1937-57; Instructor Bard Coll. 1945-46, Sarah Lawrence Coll. 1948; Horizon award (for The Oasis) 1948, Guggenheim Fellowships 1949 and 1959, Nat. Acad. of Arts and Letters award 1957. *Publications:* The Company She Keeps (novel) 1942, The Oasis (re-issued as A Source of Embarrassment) (novel) 1949, Cast ■ Cold Eye (short stories) 1950, The Groves of Academe (novel) 1952, A Charmed Life (novel) 1955, Venice Observed 1956, Sights and Spectacles (theatre criticism) 1956, Memories of ■ Catholic Girlhood (memoirs) 1957, The Stones of Florence 1959, On the Contrary 1962, The Group 1963 (film 1966), Vietnam 1967, Hanoi 1968, The Writing on the Wall (literary essays) 1970, Birds of America (novel) 1971, Medina 1972, The Mask of State—Watergate Portraits 1974, The Seventeenth Degree 1974; numerous essays, short stories, reviews, etc. in The New Yorker, Harper's, Encounter, The New York Review of Books and other magazines. *Address:* 141 rue de Rennes, 75006 Paris, France.

McCARTHY, Michael W.; American financier; b. 24 May 1903; Office Man., Mutual Stores, Oakland, Calif.; organized Hagstrom Food Stores, Calif. 1932; Merrill Lynch, Pierce, Fenner and Beane, investment brokerage, New York 1940-68, Gen. Partner 1944-48, Asst. Man. Partner 1948-57, Man. Partner, Merrill Lynch, Pierce, Fenner and Smith 1957-59, Pres., Merrill Lynch, Pierce, Fenner and Smith Inc. 1959-61, Chair., Chief Exec. Officer 1961-, Chair. Exec. Cttee. 1966-68; fmr. Gov. New York Stock Exchange, American Stock Exchange, Assn. Stock Exchange Firms. *Address:* 1 Liberty Plaza, 165 Broadway, New York, N.Y. 10006, U.S.A.

McCARTNEY, Paul, M.B.E.; British songwriter and performer; b. 18 June 1942, Liverpool; m. Linda Eastman 1969; one s. three d.; ed. Stockton Wood Road Primary School, Speke, Joseph Williams Primary School, Gateacre, and Liverpool Inst.; plays guitar, piano and organ; taught himself to play trumpet at age of 13; wrote first song 1956, has since written numerous songs with John Lennon (*q.v.*); joined pop group The Quarrymen 1956; appeared under various titles until formation of The Beatles 1960; appeared with The Beatles in the following activities: performances in Hamburg 1960, 1961, 1962, The Cavern, Liverpool 1960, 1961; worldwide tours 1963-66; attended Transcendental Meditation Course at Maharishi's Acad., Rishikesh, India Feb. 1968; formed Apple Ltd., parent org. of The Beatles Group of Cos. 1968; left The Beatles after collapse of Apple Corps. Ltd. 1970; formed MPL group of cos. 1970; first solo album McCartney 1970; formed own pop group Wings 1971-; tours of Britain and Europe 1972-73, U.K. and Australia 1975, Europe and U.S.A. 1976; albums with the Beatles: Please Please Me 1963, With the Beatles 1963, A Hard Day's Night 1964, Beatles for Sale 1965, Help! 1965, Rubber Soul 1966, Revolver 1966, Sgt. Pepper's Lonely Hearts Club Band 1967, Magical Mystery Tour 1967, The Beatles (White Album) 1968, Yellow Submarine 1969, Abbey Road 1969, Let it Be 1970; subsequent albums: Ram 1971, Wildlife 1971, Red Rose Speedway 1973, Band on the Run 1973, Venus and Mars 1975, Wings at the Speed of Sound 1976, Wings Over America 1976, London Town 1978, Wings Greatest 1978; two Grammy Awards for Band on the Run (incl. Best Pop Vocal Performance) 1975, Ivor Novello Award for Best Selling British Record 1977-78 for single Mull of Kintyre; Paul McCartney composed soundtrack music for The Family Way 1966, James Paul McCartney 1973, Live and Let Die 1973, The Zoo Gang (TV series) 1973; Films by The Beatles: A Hard Day's Night 1964, Help! 1965, Yellow Submarine (animated colour cartoon film) 1968, Let it Be 1970; TV film Magical Mystery Tour 1967. *Address:* MPL Communications Ltd., 1 Soho Square, London, W1V 6BQ, England. *Telephone:* 01-439 6621.

McCLELLAND, Douglas; Australian politician; b. 5 Aug. 1926; ed. Parramatta Commercial Boys' High School, Metropolitan Business Coll.; joined 2nd Australian Imperial Forces 1944; Court Reporter 1949-61; mem. N.S.W. Labor Party Exec. 1957-61; mem. Senate 1967-; Minister for the Media 1972-75; Special Minister of State June-Nov. 1975; Man. Govt. Business in Senate 1972-75; Labor Party Spokesman on Admin. Services 1976-77; Deputy Leader of Labor Party in Senate 1977; mem. Senate Select Cttee. on the Encouragement of Australian Production for TV 1962-63, Jt. Cttee. on Broadcasting of Parl. Proceedings 1965-, Jt. Select Cttee. on the New and Perm. Parl. House 1967-, Senate Select Cttee. on Medical and Hosp. Costs 1968-, Senate Standing Cttee. on Health and Welfare 1970-; Labor Party. *Address:* The Senate, Canberra, A.C.T. (Office); 6A Carlton Crescent, Kogarah Bay, N.S.W. 2217, Australia (Home).

McCLELLAND, James Robert, B.A., LL.B.; Australian solicitor and politician; b. 3 June 1915, Melbourne, Vic.; s. of late R. W. McClelland; m. Freda McClelland (died 1976); one s. one d.; ed. St. Kevin's Coll., Melbourne, Melbourne and Sydney Univs.; Senator for N.S.W. 1971-; Chair. Senate Standing Cttee. on Educ., Science and the Arts 1973-75, on Constitutional and Legal Affairs 1973-75; mem. Senate Standing Cttee. on Civil Rights of Migrant Australians 1973-, Joint Cttee. on Pecuniary Interests of MPs 1974-; Minister for Mfg. Industry Feb.-June 1975, Minister for Labour and Immigration June-Nov. 1975; mem. Council, Australian Nat. Univ. 1974-; Labor. *Leisure interest:* tennis. *Address:* The Senate, Canberra, A.C.T., Australia.

McCLINTOCK, Barbara, PH.D.; American scientist, b. 16 June 1902; ed. Erasmus Hall High School; Brooklyn, New York and Cornell Univ.; Instructor in Botany, Cornell Univ. 1927-31; Fellow, Nat. Research Council 1931-33; Fellow, Guggenheim Foundation 1933-34; Research Assoc., Cornell Univ. 1934-36; Asst. Prof. Univ. of Missouri 1936-41; mem. staff, Carnegie Inst. of Washington 1941-47, Distinguished Service Mem. 1967-; Visiting Prof. Calif. Inst. of Tech. 1953-54; Andrew D. White Prof.-at-Large, Cornell Univ. 1965-; Consultant, Agricultural Science Program, The Rockefeller Foundation 1962-69; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences, Genetics Soc. of America (Pres. 1945), Botanical Soc. of America, A.A.A.S., American Inst. of Biol. Science, American Soc. of Naturalists; Hon. D.Sc. (Univs. of Rochester and Missouri, Smith Coll., Williams Coll. and Western Coll. for Women); Achievement Award, Assn. of Univ. Women 1947; Award of Merit, Botanical Soc. of America 1957, Kimber Genetics Award, Nat. Acad. of Sciences 1967, Nat. Medal of Science 1970. *Address:* Carnegie Institution of Washington, Cold Spring Harbor, N.Y. 11724, U.S.A.

McCLOSKEY, Paul N.; American politician; b. 29 Sept. 1927, San Bernadino, Calif.; s. of Mr. and Mrs. Paul N. McCloskey; m. Caroline Wadsworth 1949 (divorced 1972); two s. two d.; ed. Stanford Univ. and California Inst. of Tech.; admitted to Bar 1953; Deputy District Attorney, Alameda County 1953-54; practised law with Costello & Johnson, Palo Alto 1955-56; founder mem. McCloskey, Wilson, Mosher & Martin 1956-67; Rep. from 11th District, Calif., U.S. Congress 1967-73, 12th District Calif. Jan. 1973-; U.S. del. to numerous int. maritime confs.; mem. numerous congressional cttees.; mem. many professional and community orgs.; Republican. *Publication:* Truth and Untruth 1972. *Leisure interest:* conversation. *Address:* 205 Cannon House Office Building, Washington, D.C. 20515, U.S.A.

McCLOY, John Jay, B.A., LL.B.; American lawyer, banker and administrator; b. 31 March 1895, Philadelphia, Pa.; s. of John J. McCloy and Anna Snader; m. Ellen Zinsser 1930; one s. one d.; ed. Amherst Coll. and Harvard Law School; served Field Artillery, First World War; admitted to New York Bar 1921; mem. law firm Cravath, de Gersdorff, Swaine and Wood 1935-40; Asst. Sec. of War 1941-45; Chair. Civil Affairs Cttee. Combined Chiefs of Staff 1943-45; mem. law firm Milbank, Tweed, Hope, Hadley and McCloy 1945-47, partner 1962-; Pres. Int. Bank for Reconstruction and Devt. 1947-49; U.S. Mil. Gov. and High Commr. for Germany 1949-52; Chair. Chase Manhattan Bank, New York 1953-60; Adviser to Pres. Kennedy on Disarmament Matters 1961; Chair. Bd. Ford Foundation 1953-65; Chair. American Council on Germany; Hon. Chair. Council on Foreign Relations (U.S.), Int. House, New York, Atlantic Inst. (Paris); Hon. Chair. and Trustee Emer. Amherst Coll.; Chair. Exec. Cttee. Squibb Corpn.; Chair. President's Gen. Advisory Cttee. on Disarmament 1961-74; mem. Co-ordinating Cttee. on Cuban Crisis 1962-63, President's Cttee. to Investigate Assassination of Pres. Kennedy 1963-64; Dir. Mercedes-Benz of North America Inc., Olinkraft Inc., Dreyfus Corpn.; numerous hon. degrees; D.S.M. (U.S.), Presidential Medal of Freedom, Grand Cross of Order of Merit of Fed. Repub. of Germany, Grand Officier, Légion d'honneur, Grand Officer of Order of Merit of Italy. *Publication:* The Challenge to American Foreign Policy 1953. *Leisure interests:* tennis, hunting, fishing, photography. *Address:* Milbank, Tweed, Hadley and McCloy, 1 Chase Manhattan Plaza, New York, N.Y. 10005 (Office); 404 June Road, Cos Cob, Conn. 06807, U.S.A. (Home). *Telephone:* 212-422-2660 (Office).

McCLURE, James A., DR. JUR.; American lawyer and politician; b. 27 Dec. 1924; s. of W. R. and Marie McClure; m. Louise Miller; two s. one d.; ed. Univ. of Idaho Coll. of Law; private law practice; Prosecuting Attorney for Payette County; State Senator from Payette County for three terms; Ida. Senate Majority Leader 1965-66; mem. U.S. House of Reps. 1966-72; U.S. Senator from Idaho Jan. 1973-; Chair. Senate Steering Cttee.; Chair. Task Force on Energy and Resources of House of Reps. Republican Conf. *Address:* U.S. Senate, Washington, D.C. 20510, U.S.A.

McCOLOUGH, Charles Peter, M.B.A.; American business executive; b. 1 Aug. 1922, Halifax, Canada; s. of Reginald Walker McColough and Barbara Theresa Martin McColough; m. Mary Virginia White 1953; four s. one d.; ed. Osgoode Hall Law School, Toronto, Canada, Dalhousie Univ., Halifax, Canada and Harvard Graduate School of Business Admin.; Sales Man. Lehigh Navigation and Coal 1951-54; various exec. positions, Xerox Corpn. 1954-60; Vice-Pres. for Sales, Xerox Corpn. 1960-63, Exec. Vice-Pres. of Operations 1963-66, Pres. 1966-71, Chief Exec. 1968-, Chair. 1971-; Dir. Xerox Corpn., Rank Xerox Ltd. (London), Fuji Xerox Co. Ltd. (Tokyo), Citibank and Citicorp (New York); Hon. LL.D. (Dalhousie) 1970. *Leisure interests:* skiing, sailing. *Address:* Xerox Corporation, Stamford, Conn. 06904, U.S.A. *Telephone:* 203-329-8711 (Office).

McCOMBS, Sir Terence Henderson, Kt., O.B.E., E.D.; New Zealand diplomatist and politician; b. 5 Sept. 1905, Christchurch; s. of James McCombs and Elizabeth Reid (Henderson); ed. Canterbury Univ.; M.P. for Lyttelton 1935-51; Parl. Under-Sec. to the Minister of Finance 1945-47; Minister of Educ., in charge of Dept. of Scientific and Industrial Research 1947-49; teacher and later Headmaster of Cashmere High School, Christchurch 1956-72; mem. Council, Canterbury Univ. 1957-68, Chancellor 1968-73; New Zealand High Commr. to the U.K. 1973-75; Chair. Cttee. on Secondary Educ. 1975-76; mem. Lyttelton Harbour Bd., Lincoln Coll. Bd. of Govs., Christchurch City Council, Canterbury Regional Planning Authority; Labour. *Address:* 7 Freeman Street, Christchurch 8, New Zealand.

McCONE, John A.; American business executive; b. 4 Jan. 1902, San Francisco; s. of Alexander J. and Margaret (Enright) McCone; m. 1st Rosemary Cooper 1938 (deceased); m. 2nd Theiline McGee Pigott 1962; ed. Univ. of California; began as construction engineer, Llewellyn Iron Works; Supt. Consolidated Steel Corpn. 1929, Exec. Vice-Pres., Dir. 1933-37; Pres. Bechtel-McCone Corpn. (engineers), Los Angeles 1937-45; Pres. Dir. Calif. Shipbuilding Corpn. 1941-46; Pres., Dir. Joshua Hendy Corpn. 1945-69, Chair. 1958-69; Chair. Hendy Int. Co. 1968-72; Dir. Int. Telephone Corpn., New York; mem. President's Air Policy Comm. 1947-48; Deputy to Sec. of Defense 1948; Under-Sec. U.S. Air Force 1950-51; Chair. U.S. Atomic Energy Comm. 1958-60; Dir. Cen. Intelligence Agency (C.I.A.) 1961-65; Chair. Music Center Opera Assn., Los Angeles. *Leisure interest:* golf. *Address:* 612 South Flower Street, Los Angeles, Calif., 90017, U.S.A. (Office).

McCONNELL, Albert Joseph, SC.D.; Irish mathematician and university administrator; b. 19 Nov. 1903; ed. Ballymena Acad., Trinity Coll., Dublin, and Univ. of Rome; Lecturer in Mathematics, Trinity Coll., Dublin 1927-30, Fellow 1930-52; Prof. of Natural Phil., Univ. of Dublin 1930-57; Visiting Prof. Univ. of Alexandria 1946-47; Provost of Trinity Coll., Dublin 1952-54; mem. Council of State 1973-; Chair. Governing Bd. and mem. Council, School of Theoretical Physics, Dublin Inst. for Advanced Studies 1975-; mem. Royal Irish Acad.; Hon. D.Sc. (Belfast, Ulster), Hon. Sc.D. (Columbia), Hon. LL.D. (Nat. Univ. of Ireland). *Publications:* The Mathematical Papers of Sir William Rowan Hamilton, Vol II (with A. W. Conway) 1940, Applications of the Absolute Differential Calculus 1931, Applications of Tensor Analysis 1957. *Address:* Seafield Lodge, Seafield Road, Killiney, Dublin, Ireland.

McCONNELL, Harden M., PH.D.; American professor of chemistry; b. 18 July 1927, Richmond, Va.; m. Sofia Glogovac 1956; two s. one d.; ed. George Washington Univ., California Inst. of Tech. and Univ. of Chicago; with Dept. of Physics, Univ. of Chicago, Nat. Research Fellow 1950-52; Shell Devt. Co., Emeryville, Calif. 1952-56; Asst. Prof. of Chem., Calif. Inst. of Tech. 1956-58, Assoc. Prof. of Chem. 1958-59, Prof. of Chem. 1959-63, Prof. of Chem. and Physics 1963-64; Prof. of Chem. Stanford Univ. 1964-; mem. Editorial Advisory Bds., Chemical Physics Letters, Bio-Organic Chemistry, Journal of Supramolecular Structure, Journal of Biological Chemistry, annual reviews, etc.; Fellow, American Physical Soc., Biophysical Soc., American Soc. of Biological Chemists; mem. American Chemical Soc., Nat. Acad. of Sciences, Int. Acad. of Quantum Molecular Science, A.A.A.S.; Neuroscience Research Program, M.I.T.; Harvey Lecturer, Rockefeller Univ. 1977, A. L. Patterson Lecturer, Inst. for Cancer Research, Philadelphia 1978, Calif. Section Award of American Chemical Soc. (A.C.S.) 1961, Nat. A.C.S. Award in Pure Chem. 1962, Harrison Howe Award 1968, Irving Langmuir Award in Chemical Physics 1971. *Publications:* over 200 scientific publications in the field of chemistry/chemical physics/immunochemistry. *Address:* Department of Chemistry, Stanford University, Stanford, Calif. 94305, U.S.A. (Office). *Telephone:* 415-497-2857.

McCONNELL, Joseph Howard, B.A., LL.B.; American executive; b. 13 May 1906, Chester, S.C.; s. of Joseph Moore McConnell and Eliza Riggs McConnell; m. Elizabeth Bernard 1936; three d.; ed. Davidson Coll. and Univ. of Virginia; practised law in W. Palm Beach, Fla. 1931-32, in Charlotte, N.C. 1932-33; NRA, Washington, D.C. 1933-35; Assoc. in law firm of Cotton, Franklin, Wright and Gordon (now Cahill, Gordon, Sonnet, Reindel and Ohl), New York 1935-41; various exec. posts with Radio Corpn. of America, including Financial Vice-Pres. and Exec. Vice-Pres. 1941-49; Pres., Nat. Broadcasting Co. 1949-52; Pres. Colgate-Palmolive Co. 1953-55; Exec. Vice-Pres. and Gen. Counsel, Reynolds Metals Co. 1955-63, Pres. 1963-71 (retd.); Rector, Univ. of Virginia 1970-76; Chair. Communications Satellite Corpn. 1970-79. *Leisure interests:* golf, fishing. *Address:* 950 L'Enfant Plaza, S.W., Washington, D.C., U.S.A. *Telephone:* 202-554-6020.

McCONNELL, Thomas Raymond, PH.D.; American college president, dean and professor; b. 25 May 1901, Mediapolis, Iowa; s. of William and Nell McConnell; m. Ruth Kegley 1925; one s. one d.; ed. Cornell Coll., Mount Vernon, and Univ. of Iowa; Instructor in English and Journalism Cornell Coll. 1925-26, Instructor, Asst. Prof., and Prof. of Educ. and Psychology 1929-36, Dean of Coll. 1932-36; Prof. Educ. Psychology Univ. of Minnesota 1936-50; Chair. Comm. on Educ. Research 1937-47; Assoc. Dean Coll. of Science, Literature and the Arts 1940-44, Act. Dean 1942-44, Dean 1944-50; Chancellor Univ. of Buffalo 1950-54; Prof. of Higher Educ. Univ. of Calif. 1954-68; Prof. Emer. 1968-; Chair. Center for Study of Higher Educ. (Univ. of Calif.) 1957-66; Research Educator, Center for Research and Devt. in Higher Educ. 1966-; fmr. mem. Pres. Truman's Comm. on Higher Educ., and Problems and Policies, and Instruction and Evaluation, Comms. of American Council on Educ., Cttee. on Devt. of Youth of the Social Science Research Council; mem. Comm. on Plans and Objectives for Higher Educ., American Council of Educ.; mem. Research Advisory Council U.S. Office of Educ. 1962-65, Adviser to Sub Cttee. on Man. and Financing of Colls. of Cttee. for Econ. Devt. 1971-73; mem. Bd. of Editors of Encyclopaedia of Educational Research 1957-59, Chair. 1964-69; Research Cttee. of Educational Testing Service 1956-70; Founding mem. Nat. Acad. of Educ.; fmr. mem. Int. Council for Educ. Devt.; Chair. Comm. to Study Non-Public Higher Educ. in Illinois, 1968-69; [redacted] Assembly on Univ. Goals, etc. 1971; Award of American Educ. Research Assn., Distinguished Service Award, Univ. of Iowa 1968, first annual award from Colloquium in Higher Educ. 1970, Carnegie Comm. on Higher Educ. Award, Award for distinguished contributions to Educ. Research, Educ. Research Assn. and American Coll. Testing Program 1977. *Publications:* Psychology in Everyday Living (with others) 1938, Educational Psychology (with others) 1948, A Restudy of the Needs of California in Higher Education (with H. H. Semans and T. C. Holy), A General Pattern for American Public Higher Education 1962, Research or Development: A Reconciliation 1967, The Redistribution of Power in Higher Education 1971, The Faculty in University Governance (with K. Mortimer) 1971, From Elite to Mass to Universal Higher Education: The British and American Transformations (with R. O. Berdahl and M. A. Fay) 1973, Campus Government at Berkeley: A Study in Jurisdictions, (with S. Edelstein) 1977, Sharing Authority Effectively: Participation, Interaction and Discretion, (with K. P. Mortimer) 1978. *Address:* Apartment 214, 401 Santa Clara Avenue, Oakland, Calif. 94610, U.S.A. *Telephone:* 415-763-2960.

McCORMACK, John William; American politician; b. 21 Dec. 1891, Boston; admitted to Massachusetts Bar 1913; practised law, Boston; mem. firm McCormack & Hardy; mem. Mass. House of Reps. 1920-22, State Senate 1923-26; mem. House of Reps. 1927-70, House Majority Leader 1955-62, Speaker 1962-70, re-elected as Speaker 1969-70; Hon. LL.B. (Boston); Knight of Malta; Democrat. *Address:* 111 Perkins Street, Jamaica Plain, Mass. 02130, U.S.A. (Home).

McCORMICK, Brooks; American business executive; b. 1917, Chicago; ed. Yale Univ.; joined Int. Harvester Co. 1940; various posts 1942-50; Jt. Man. Dir. Int. Harvester Co. of G.B. Ltd. 1951-54; Dir. of Mfg., Int. Harvester Co. 1954-57, mem. of Bd. 1958-, Pres. 1968-77; Chief Exec. Officer 1971-77, Chair. 1977-; Dir. First Nat. Bank of Chicago, Commonwealth Edison Co.; Chair. Motor Vehicle Mfrs.' Assn. 1973-74; Pres. and Chair. Farm and Industrial Equipment Inst. 1976-78. *Address:* International Harvester Company, 401 North Michigan Avenue, Chicago, Ill. 60611, U.S.A.

McCOWEN, Alec, O.B.E.; British actor; b. 26 May 1925, Tunbridge Wells; s. of Duncan McCowen and Mary Walkden; ed. Skinners School, Tunbridge Wells, and Royal Acad. of Dramatic Art; mem. Nat. Theatre; Evening Standard Best Actor 1968, 1973; Variety Club Stage Actor 1970; Old Vic Theatre: played Touchstone, Ford, Richard II, Mercutio, Malvolio, Oberon 1959-60; with R.S.C.: played

Fool in King Lear 1964, Hadrian VII 1968, The Philanthropist 1970, The Misanthrope 1972, Dr. Dysart in Equus 1972, Henry Higgins in Pygmalion 1974, Ben in The Family Dance 1976; with Prospect Co.: Antony in Antony and Cleopatra 1977; solo performance of St. Mark's Gospel 1978. *Films:* Frenzy 1971, Travels with my Aunt 1973; *T.V.:* Private Lives 1976. *Leisure interests:* music and gardening. *Address:* c/o Larry Dalzell, 3 Goodwins Court, London, W.C.2, England. *Telephone:* 01-240 3086.

McCOY, Charles Brelsford, M.SC.; American business executive; b. 16 April 1909, Oakland, Calif.; s. of John W. McCoy; m. Sallie L. Curtis 1934; three s.; ed. Wilmington, Delaware, Friends School, Univ. of Virginia, Massachusetts Inst. of Tech.; cellophane operator, chemist, industrial engineer Du Pont de Nemours, Foreign Relations Dept., London 1935, Asst. Man. 1939, Dir. Chemical and Miscellaneous Sales Div. 1940, Dir. Sales of Explosives Div. 1943; Asst. Gen. Man. Elastomer Chemicals Dept. 1958, Gen. Man. Explosives 1960, Vice-Pres., mem. Bd. of Dirs. and Exec. Cttee. 1961; Vice-Chair. Exec. Cttee. Sept. 1967, Pres., Chair. Exec. Cttee. Dec. 1967-73, Chair. Bd. of Dirs. 1971-73, Chair. Finance Cttee. 1974-; mem. Bd. of Dirs. Remington Arms Co. 1963-68; Dir., Wilmington Trust Co., Citibank, New York, Diamond State Telephone Co., Bethlehem Steel Corpn. *Address:* Du Pont de Nemours, Du Pont Buildings, Wilmington, Del. 19801, U.S.A.

McCRACKEN, James; American tenor; b. Gary, Ind.; m. Sandra Warfield; one s. one d.; ed. Columbia Univ.; operatic début with Cen. City (Colo.) Opera Co. 1952; with Metropolitan Opera 1954-57; went to Europe, début with Bonn Opera; first performed title role in Otello with Washington, D.C. Opera Soc. 1960, and at Met. Opera 1963; has sung with San Francisco Opera Co., Zürich Opera, and at Zürich and Vienna Festivals; performed at White House celebrations for 25th Anniversary of the UN 1970. *Major roles include:* title role in Otello, Manrico in Il Trovatore, Florestan in Fidelio, Samson in Samson and Delilah, Radames in Aida, Canio in Pagliacci, Don José in Carmen. *Publication:* A Star in the Family (with Sandra Warfield) 1971. *Leisure interest:* fishing. *Address:* c/o S. A. Gorlinsky Ltd., 35 Dover Street, London, W1X 4NJ, England.

McCRACKEN, Paul Winston, PH.D.; American economist; b. 29 Dec. 1915, Richland, Ia.; s. of late C. Sumner McCracken and Mary (Coffin) McCracken; m. E. Ruth Siler 1942; two d.; ed. William Penn Coll. and Harvard Univ.; mem. Faculty, Foundation School, Berea Coll., Kentucky 1937-40; economist, Dept. of Commerce, Washington 1942-43; Financial Economist, Dir. of Research, Fed. Reserve Bank of Minneapolis 1943-48; Assoc. Prof. School of Business Admin., Univ. of Mich. 1948-50, Prof. 1950-66, Edmund Ezra Day Univ. Prof. of Business Admin. 1966- (on leave of absence 1969-72); mem. Council of Econ. Advisers, Washington 1956-59, Chair. 1969-72; non-exec. Dir. Dow Jones 1979-. *Publications:* Hypothetical Projection of Commodity Expenditures, Northwest in Two Wars, Future of Northwest Bank Deposits, Rising Tide of Bank Lending, Balance of Payments and Domestic Prosperity, Economic Progress and the Utility Industry. *Address:* Graduate School of Business Administration, University of Michigan, Ann Arbor, Mich. 48109, U.S.A. *Telephone:* 313-764-1581.

McCREA, William Hunter, PH.D., SC.D., F.R.S.; British mathematician and astronomer; b. 13 Dec. 1904, Dublin; s. of Robert Hunter McCrea and Margaret Hutton; m. Marian Nicol Core Webster 1933; one s. two d.; ed. Chesterfield Grammar School, Cambridge and Göttingen Univs.; Lecturer in Math., Edinburgh Univ. 1930-32; Reader in Math., Univ. of London and Asst. Prof. Imperial Coll. of Science 1932-36; Prof. of Math., Queen's Univ. of Belfast 1936-44; Temporary Principal Experimental Officer, Admiralty 1943-45; Prof. of Math., Univ. of London (Royal Holloway Coll.) 1944-66; Comyns Berkeley Bye-Fellow, Caius Coll., Cambridge 1952-53; Visiting Prof. of Astronomy, Univ. of Calif. 1956, 1967, Case Inst. of Tech. 1964; Research Prof. of Theoretical Astronomy, Univ. of Sussex 1966-72; Fellow of Imperial Coll. of Science and Tech., London 1967-; Emer. Prof. Univ. of Sussex 1972-; Georges Lemaître Prof., Univ. of Louvain 1969; Royal Soc. Leverhulme Visiting Prof. Cairo 1973; Visiting Prof. of Astronomy, Univ. of British Columbia, Vancouver 1975-76; Visiting Prof. Univ. of Istanbul 1977-78; Pres. Royal Astronomical Soc. 1961-63, Treas. 1976-79; Pres. Math. Assn. 1973-74; mem. Akademie Leopoldina, Halle; Keith Prize, Royal Soc. of Edinburgh, Gold Medal, Royal Astronomical Soc. 1976; Hon. D.Sc. (Nat. Univ. of Ireland, Queen's Univ. Belfast, Univ. of Sussex), Sc.D. (Dublin), Dr. h.c. (Nat. Univ. of Córdoba, Argentina). *Publications:* Relativity Physics 1935, Analytical Geometry of Three Dimensions 1942, Physics of the Sun and Stars 1950, trans. of A. Unsöld's The New Cosmos 1969, Cosmology 1969, The Royal Greenwich Observatory 1975, and numerous papers in mathematical and astronomical journals. *Leisure interests:* travel and walking. *Address:* Astronomy Centre, University of Sussex, Falmer, Brighton BN1 9QH (Office); 87 Houndean Rise, Lewes, Sussex BN7 1EJ, England (Home). *Telephone:* Brighton 66755 (Office); Lewes 3296 (Home).

McCREADY, Allan; New Zealand politician; b. 1 Sept. 1916, Kawakawa; s. of Alexander McCready; m. Grace Lorraine Maher; one s. one d.; ed. Kawakawa; war service in army; worked in Post Office Dept.; Dir. Wellington Dairy Farmers' Co-operative; fmr. Dir. Hutt Valley Milk Treatment Corpn., Featherston Co-operative Dairy Co. Ltd.; M.P. for Otaki 1960-72, Manawatu 1972-; Postmaster-Gen., Minister of Marine and Fisheries 1969-72; Minister in Charge of Govt. Printing Office 1972-; Minister of Defence, War Pensions and Rehabilitation Feb.-Dec. 1972, 1975-78, also of Police 1975-78; National Party. *Address:* Parliament Buildings, Wellington (Office); 35 Chester Street, Levin, New Zealand (Home).

McCRUM, Michael William, M.A.: British headmaster; b. 23 May 1924; s. of Capt. C. R. McCrum, R.N. (retd.) and Ivy I. H. (née Nicholson) McCrum; m. Christine M. K. fforde 1952; three s. one d.; ed. Sherborne School and Corpus Christi Coll., Cambridge; Asst. Master, Rugby School 1948-50; Fellow, Corpus Christi Coll., Cambridge 1949, Second Tutor 1950-51, Tutor 1951-62; Headmaster of Tonbridge School 1962-70; Headmaster of Eton Coll. Sept. 1970-. *Address:* Eton College, Windsor, Berks., England.

McCULLIN, Donald; British photographer; b. 9 Oct. 1935, London; s. of Frederick and Jessica McCullin; m. Christine Dent 1959; two s. one d.; ed. Tollington Park Secondary Modern, Hammersmith Art and Crafts School; R.A.F. Nat. Service; photographer with Observer for four years; photographer with Sunday Times, London 1967-; has covered seven wars—Viet-Nam, Cambodia, Biafra, Congo, Israel, Cyprus, Chad—and many famine areas; has travelled to 64 countries; World Press Photographer 1964, Warsaw Gold Medal 1964, Granada TV Award 1967, 1969, Two Gold, One Silver Art Director Awards, U.K. *Publications:* The Destruction Business 1971, The Concerned Photographer II 1972, Is Anyone Taking Notice? 1973. *Leisure interests:* walking in countries, collecting Victorian children's books, looking at things and people. *Address:* Redstack, 3 The Square, Braughing, Herts., England.

McCULLOCH, Frank Waugh, LL.B.; American lawyer, teacher and government official; b. 1905, Evanston, Ill.; s. of Frank Hathorn McCulloch and Catharine Waugh McCulloch; m. Edith F. Leverton 1937; two s.; ed. Williams Coll. and Harvard Law School; Legal Practice 1930-35; Industrial Relations Sec., Council for Social Action, Congregational-Christian Churches, Chicago 1935-46; Dir. Labor Educ. Div., Roosevelt Univ., Chicago 1946-49; Admin. Asst. to U.S. Senator Paul H. Douglas 1949-61; Chair. Nat. Labor Relations Bd. 1961-70; Visiting Prof. of Law, Univ. of N. Carolina 1971; mem. Center for Advanced Studies, Univ. of Virginia 1971-74, Prof. of Law 1971-76, Scholar in Residence 1976-78; Visiting Prof. Cornell Univ. Industrial and Labor Relations School 1976; mem. Public Review Bd., United Automobile Workers 1971-; mem. Admin. Conf. of U.S. 1968-70, Comm. of Experts on the Application of Conventions and Recommendations, Int. Labour Office 1974-; Anglo-American Admin. Law Exchange 1969, Comm. on Public Employee Rights 1972-76; State Employee Labor Relations Council (Ill.) 1973-; Consultant, President's Personnel Man. Project 1977; Hon. LL.D. (Olivet Coll., Chicago Theological Seminary, Williams Coll.). *Publication:* The National Labor Relations Board (with T. Bornstein) 1974. *Leisure interests:* music, art, theatre, travel, social and community action. *Address:* School of Law, University of Virginia, Charlottesville, Va. 22901 (Office); 104 Falcon Drive, Charlottesville, Va. 22901, U.S.A. (Home). *Telephone:* 804-295-7371 (Home).

McCUNE, Francis Kimber; American business executive; b. 10 April 1906, Santa Barbara, Calif.; s. of Thomas H. McCune and Vernon K. McCune; m. Mary Harper Waddell 1969; two d.; ed. California Univ.; with Gen. Electric Co. 1928-67, Asst. Gen. Man., Nucleonics Dept. 1949, Gen. Man. Atomic Products Div. 1954, Vice-Pres. 1954-67, Vice-Pres. Eng. 1960, Vice-Pres. Business Studies 1965-67; Vice-Pres. and Dir. American Standards Assn. 1965; Hon. Dir. and Past Pres. Atomic Industrial Forum Inc.; Chair. N.Y. State Gen. Advisory Cttee. on Atomic Energy 1959-62; Pres. U.S.A. Standards Inst. 1967-69; mem. Nat. Acad. Eng.; mem. Woods Hole Oceanographic Inst.; mem. Nat. Research Council 1969-71; life mem. and Fellow of I.E.E.E.; Charter mem. American Nuclear Soc.; mem. A.S.M.E.; Howard Coonley Medal 1970. *Leisure interests:* fishing, hunting, boating, golf. *Address:* 909 Magellan Drive, Sarasota, Fla. 33580, U.S.A. *Telephone:* 813-755-7177.

McCURDY, Richard Clark; American oil executive; b. 2 Jan. 1909, Newton, Ia.; s. of Ralph B. McCurdy and Florence (Clark) McCurdy; m. Harriet Sultan 1933; three s. one d.; ed. Stanford Univ.; with Shell Oil Co., Ventura, Calif. 1933, Jr. Engineer, later Engineer, Los Angeles, Bakersfield, Coalinga, Long Beach 1935-42,

Washington Office 1942-43, Chief Exploitation Engineer, Pacific Coast Production Area 1943-45, Acting Div. Man. San Joaquin Production Div. Bakersfield 1945-47; Asst. Man., later Man., Western Div. Royal Dutch/Shell Group companies in Venezuela 1947-50, Gen. Man. 1950-53; Pres. Shell Chemical Co. (div. of Shell Oil Co.) 1953-65, Pres. and Chief Exec. Officer Shell Oil Co. 1965-69; Assoc. Admin. Org. and Man., NASA, Washington, D.C. 1970-73, Consultant 1974-; fmr. Chair. Bd. of Dirs. Mfg. Chemists' Assn.; Trustee Stanford Univ., etc.; Chair. Bd. of Trustees, Hood Coll. 1968-; Trustee Rensselaer Polytechnic Inst. 1974-; mem. Soc. of Chemical Industry, American Physical Soc., and American Inst. of Mining and Metallurgical Engineers; Distinguished Service Medal, NASA 1972. *Leisure interest:* sailing. *Address:* Contentment Island, Darien, Conn. 06820, U.S.A. (Home).

McDANIEL, Boyce Dawkins, PH.D.; American physicist; b. 11 June 1917, Brevard, N.C.; s. of Allen Webster McDaniel and Grace Dawkins; m. Jane Chapman Grennell 1941; one s. one d.; ed. Ohio Wesleyan Univ., Case Inst. of Tech. and Cornell Univ.; Staff mem. Radiation Lab., Mass. Inst. of Tech. 1943; Los Alamos Scientific Lab. 1943-46; Asst. Prof. of Physics, Cornell Univ. 1946-48, Assoc. Prof. 1948-56, Prof. 1956-; on sabbatical leave at Australian Nat. Univ., Canberra 1953-54, Laboratorio Nazionale di Frascati, Italy 1959-60; Assoc. Dir. Lab. of Nuclear Studies 1960-67, Dir. 1967-; Resident Collaborator, Brookhaven Nat. Lab. 1966-; Floyd E. Newman Prof. in Nuclear Studies 1977-; Trustee, Associated Univs. Inc. 1963-75, Univs. Research Assn. Inc. 1971-77; Physicist Fermi Nat. Accelerator Lab. 1972, 1974; Fulbright Research Award 1953, 1959; Guggenheim Award 1959; Fellow, American Physical Soc. *Address:* Laboratory of Nuclear Studies, Cornell University, Ithaca, N.Y. 14850, U.S.A. *Telephone:* 607-256-2301.

MACDERMOT, Niall, O.B.E., Q.C.; British international jurist; b. 10 Sept. 1916, Dublin, Ireland; s. of Henry MacDermot, K.C. and Gladys née Lowenadler; m. Ludmila Benvenuto 1966; ed. Rugby School, Balliol Coll., Oxford; called to the Bar 1946, M.P. (Labour) for Lewisham N. 1957-59, for Derby N. 1962-70; Deputy Chair. Bedfordshire Quarter Sessions 1962; Recorder of Newark 1963-64; Financial Sec. to H.M. Treasury 1964-67; Minister of State for Planning and Land 1967-68; Recorder of Crown Court 1972-74; Bencher, the Inner Temple 1970-; Trustee Tate Gallery 1969-76; Sec.-Gen. Int. Comm. of Jurists 1970-; Chair. Special Non-Governmental Orgs. Cttee. on Human Rights, Geneva 1973-. *Address:* International Commission of Jurists, P.O. Box 120, 1224 Chêne Bougeries, Geneva, Switzerland. *Telephone:* 49-35-45.

MacDERMOTT, Baron (Life Peer), cr. 1947, of Belmont; **John Clarke MacDermott,** P.C., LL.D., M.C.; British lawyer; b. 12 April 1896, Belfast; s. of Rev. John MacDermott and Lydia Allen née Wilson; m. Louise Palmer Johnston 1926; two s. two d.; ed. Queen's Univ., Belfast; served with Machine Gun Corps First World War; called to Irish Bar 1921; Lecturer in Jurisprudence, Queen's Univ., Belfast 1931-35; M.P. for Queen's Univ., Northern Ireland Parl. 1938-44; Maj., Royal Artillery 1939-40; Minister of Public Security Northern Ireland 1940-41, Attorney-Gen. 1941-44; Judge, Supreme Court, Northern Ireland 1944-47; Lord of Appeal in Ordinary 1947-51; Lord Chief Justice, Northern Ireland 1951-71; LL.D. h.c. (Queen's Univ., Belfast) 1951, (Edinburgh) 1958, (Cambridge) 1968. *Address:* House of Lords, London, S.W.1; and Glenburn, 8 Cairnburn Road, Strandtown, Belfast 4, Northern Ireland. (Died July 1979).

McDERMOTT, Edward Aloysious, B.A., IUR.D.; American lawyer, educator and government official; b. 28 June 1920; three s. one d.; ed. Loras Coll. and State Univ. of Iowa; Prof. of Business Law, Loras Coll., Dubuque, Iowa 1946-48; Prof. of Econs., Clarke Coll., Dubuque 1948-50; Partner law firm O'Connor, Thomas, McDermott and Wright, Dubuque 1951-61; Chief Counsel U.S. Senate Sub-cttee. on Privileges and Elections 1950-51; Dep. Dir. Office of Civil and Defense Mobilisation, The White House 1960-61; Dir. Office of Emergency Planning, Exec. Office of the Pres. 1962-65; mem. Nat. Security Council; Chair. Emergency Planning Cttee.; U.S. Rep. Sr. Civil Emergency Planning Cttee., NATO 1962-65; mem. President's Cttee. on Econ. Impact on Defense and Disarmament; Chair. President's Petroleum Policy Cttee. 1963; Sr. Adviser, President's Reorganization Project 1977-; Partner Law Firm Hogan and Hartson, Washington D.C., 1965-; Pres. John Carroll Soc.; mem. Bd. of Advisers, Industrial Coll. of Armed Forces, Washington 1965-70; mem. Bd. of Regents, Univ. Santa Clara (Calif.), Lynchburg Coll. (Virginia), Coll. of Notre Dame, Loras Coll. (Dubuque) 1975-; Trustee, Colgate Univ. (New York); mem. Bd. of Dirs. American Irish Foundation; mem. American Bar Assn., etc.; official of legal, civic and charitable orgs. *Address:* 5400 Albemarle St., N.W., Washington, D.C., U.S.A. *Telephone:* 301-229-8755.

McDIARMID, John, PH.D.; American international official; b. 12 Aug. 1911, Beckley, West Va.; s. of late Errett Weir McDiarmid and Allie May McCorkle McDiarmid; m. Darice Elmer 1938; two s. one d.; ed. Texas Christian Univ. and Univ. of Chicago; Instructor in Govt., Texas Christian Univ. 1932-33; Research Asst. Nat. Resources Bd., U.S. Govt., Washington 1935; Instructor in Politics, Princeton Univ., 1936-38; Asst. Prof. of Public Admin., Univ. of Southern California 1938-42; various positions with U.S. Civil Service Comm. Washington 1942-45; Assoc. Prof. of Political Science, Northwestern Univ., Evanston, Ill. 1945-46; Official of UN Secr., New York 1946; Deputy Dir. of Personnel, UN 1954-57, Act. Dir. of Personnel 1957-59, Sr. Dir. Tech. Assistance Bd. 1959-64, Resident Rep. UN Devt. Programme in India 1964-74, Swaziland (Act.) July-Oct. 1975; Sr. Adviser to Rector, UN Univ., Tokyo 1975-76; UN Consultant on Org. and Man. Training to Govt. of Jordan 1977; Sr. Consultant to Int. Fund for Agric. Devt., Rome Nov. 1978-March 1979. *Publications:* Government Corporations and Federal Funds 1938, The Administration of the American Public Library (with E. W. McDiarmid) 1943. *Leisure interests:* tennis (ranked 7th nationally in U.S.A., 1936), reading, travel. *Address:* 22 Thayer Pond Road, New Canaan, Conn. 06840, U.S.A. *Telephone:* (203) 966-8574.

McDONALD, Sir Alexander Forbes, Kt., B.L., D.L.; British business executive; b. 14 Aug. 1911; ed. Hillhead School and Glasgow Univ.; Chartered Accountant 1934; Chair. Distillers Co. Ltd. 1967-76; Chair. Scotch Whisky Assn. 1967-76; Dir. Nat. and Commercial Banking Group. *Address:* 6 Oswald Road, Edinburgh, Scotland. *Telephone:* 031-667 4246.

MacDONALD, Daniel Joseph, P.C.; Canadian farmer and politician; b. 23 July 1918, Bothwell, P.E.I.; s. of Daniel L. MacDonald and Elizabeth Fisher; m. Pauline Peters 1946; four s. three d.; ed. Bothwell schools; served with rank of Sergeant in Canadian Army, losing left leg and arm 1940-45; entered provincial politics 1962; elected constituency of 1st Kings, re-elected 1966 and 1970; Minister of Agric. and Forestry for P.E.I. 1966-72; M.P. for Cardigan 1972-79; Minister of Veterans' Affairs, Fed. Govt. 1972-79; mem. War Amputations of Canada; Pres. local branch, Royal Canadian Legion; fmr. Pres. local branch, Co-operative Assn. and South Lake School Bd., Provincial Dir. Artificial Breeding Unit Bd.; mem. Fed. of Agric.; Hon. Lieut.-Col. P.E.I. Regt.; 1939-45 Star, Italy Star, France and Germany Star, Defence Medal, Voluntary Service Medal. *Address:* Bothwell, Souris, R.R.2, Prince Edward Island, Canada. *Telephone:* 357-2750.

McDONALD, Denis Ronald, B.A., H.DIP.ED.; Irish diplomatist; b. 22 Feb. 1910, Dublin; m. Una Sheehan 1941; one s. one d.; ed. Univ. Coll., Cork; Minister, later Amb., to Belgium 1954-60; Irish Rep. to EEC 1959-60; Amb. to France 1960-66, to Italy and to Turkey 1966-75, to Egypt 1975; retd. 1976; Head of Irish Del. to OEEC (now OECD) 1960-66; Perm. Del. to UNESCO 1961-66; Company Dir. 1976-; Kt. Commdr. Order of St. Gregory the Great, Kt. Grand Cross Order of Merit (Italy). *Address:* 37 Merrion Court, Dublin 4, Ireland.

MacDONALD, Donald, O.C.; Canadian trade unionist (retd.); b. 1909, Halifax; ed. Holy Redeemer School and Sydney Acad., Cape Breton and St. Francis Xavier Univ., Antigonish, N.S.; entered coal industry and immediately became active trade unionist 1926; played prominent role in United Mine Workers of America 1930-40; mem. Nova Scotia legislature 1941-45, also leader of CCF Party in legislature; mem. CCF Prov. Council 1940-51, Nat. Council 1941-45; Organizer, Canadian Congress of Labour 1942, Regional Dir. of Org. for the Maritimes 1945-51; Sec.-Treas. and Chief Exec. Officer, Canadian Congress of Labour 1951-56; Sec.-Treas. Canadian Labour Congress (following merger of Canadian Congress of Labour and Trades and Labour Congress of Canada) 1956-67, Acting Pres. 1967-68, Pres. 1968-74, Pres. Emer. 1974-; Pres. ICFTU 1972-; Gov. Antigonish Human Resources Foundation; mem. Bd. of Govs. St. Francis Xavier Univ., Canadian Nat. Cttee. of United World Colls.; Hon. LL.D. (St. Francis Xavier Univ., Windsor Univ., Ont.); Award of Merit, Officer Class, Fed. Repub. of Germany, Commdr. Order of Merit, Luxembourg. *Address:* c/o Canadian Labour Congress, 2841 Riverside Drive, Ottawa, Ont., Canada. *Telephone:* 521-3400.

MACDONALD, Hon. Donald Stovel, P.C., LL.M.; Canadian politician and lawyer; b. 1 March 1932, Ottawa, Ont.; s. of Donald A. Macdonald and Marjorie I. Stovel; m. Ruth Hutchison 1961; four d.; ed. Ottawa public schools, Ashbury Coll., Ottawa, Univs. of Toronto and Cambridge, and Osgoode Hall and Harvard Law Schools; with McCarthy and McCarthy, Barristers, Toronto 1957-62; M.P. 1962-78; Parl. Sec. to Minister of Justice 1963-65, to Minister of Finance 1965, to Sec. of State for External Affairs 1966-68, to Minister of Industry 1968; Minister without Portfolio 1968;

Pres. Privy Council and Govt. House Leader 1968; Minister of Nat. Defence 1970-72, of Energy, Mines and Resources 1972-75, of Finance 1975-77; partner, firm McCarthy & McCarthy, Toronto 1977-; Rowell Fellowship, Canadian Inst. of Int. Affairs 1956; Hon. LL.D. (St. Lawrence Univ.), Hon. D.Eng. (Colorado School of Mines). *Leisure interests:* fishing, cross-country skiing, tennis, squash. *Address:* 15 Westward Way, Ottawa 7, Ont. K1L 5A8, Canada (Home). *Telephone:* 745-7677 (Home).

MACDONALD, Hon. Flora; Canadian politician; b. 1926 North Sydney, Nova Scotia; ed. North Sydney High School, Empire Business Coll. and National Defence Coll., Kingston; held various secretarial posts in Canada and U.K.; admin. officer and tutor Dept. of Political Studies Queen's Univ. 1966-72; Exec. Dir. Progressive Conservative Headquarters; Nat. Sec. Progressive Conservative Assen. of Canada 1966-69; mem. Parl. for Kingston and the Islands, Ont. 1972-; Opposition Spokesman for Indian Affairs and Northern Devt. 1972-79; Sec. of State for External Affairs June 1979-; Progressive Conservative. *Address:* Ministry of External Affairs, Lester B. Pearson Building, Ottawa K1A 0G2, Canada.

MACDONALD, Gordon James Fraser, PH.D.; American professor of physics; b. 30 July 1929, Mexico, D.F.; s. of Gordon J. MacDonald and Josephine Bennett; m. 1st Marcelline Kuglen 1960 (deceased), two s. one d.; m. 2nd Betty Ann Kipniss, one s.; ed. Harvard Univ.; Staff Assoc. Geophysics Lab., Carnegie Inst., Washington 1955-63; Consultant, U.S. Geological Survey 1955-60; Assoc. Prof. of Geophysics, Mass. Inst. of Tech. 1955-58; Prof. Geophysics, Univ. of Calif. at Los Angeles 1958-68, Dir. Atmospheric Research Lab. 1960-66, Assoc. Dir. Inst. of Geophysics and Planetary Physics 1960-68; Vice-Pres. Research Inst. for Defense Analyses 1966-67, Exec. Vice-Pres. 1967-68, Trustee 1966-70; Vice-Chancellor for Research and Graduate Affairs, Univ. of Calif., Santa Barbara, Prof. of Physics and Geophysics 1968-69; mem. Council on Environmental Quality, Washington 1969-72; Consultant, NASA 1960-70; mem. Space Science Bd., Nat. Acad. Sciences 1962, President's Science Advisory Cttee. 1965-69, Lunar and Planetary Missions Bd. 1967, Defense Science Bd., Dept. of Defense 1966-70; Consultant, Dept. State 1967-70; Henry R. Luce Prof. of Environmental Studies and Policy, Dartmouth 1972-; mem. Advisory Panel on Nuclear Effects, Office of Tech. Assessment 1975-; mem. American Math. Soc., Nat. Acad. Sciences, Royal Astronomical Soc., American Mineral Soc., etc.; Fellow American Acad. Arts and Sciences, A.A.A.S.; Trustee Mitre Corpn.; American Acad. of Arts and Sciences Monograph Prize in Physics and Biological Sciences 1960, James B. Macelwane Award, American Geophysical Union 1965. *Publications:* Rotation of the Earth (with Walter Munk) 1960; and articles in scientific journals. *Address:* Dartmouth College, Hanover, N.H. 03755, U.S.A.

MACDONALD, Hon. Hector Norman, Q.C.; Rhodesian judge; b. 3 Nov. 1915, Bulawayo; ed. Gray's Inn, London; called to the Bar 1937; served British Army 1940-43, discharged with rank of Capt., Royal Artillery; practised at the Bar, Johannesburg 1943-50, Bulawayo 1950-58; Q.C. 1956; Judge, High Court of Rhodesia 1958-65, Judge of Appeal 1965-70, Judge Pres. of the Appellate Div. 1970-77; Chief Justice Feb. 1977-. *Address:* High Court of Justice, Salisbury (Office); Threadneedle House, 6 Chancellor Avenue, Salisbury, Zimbabwe Rhodesia (Home).

McDONALD, John W., Jr., DR. JUR.; American lawyer, diplomatist and international official; b. 18 Feb. 1922, Koblenz, Germany; s. of John Warlick McDonald and Ethel Mae Raynor; m. Christel Meyer 1970; one s. three d.; ed. Univ. of Illinois, Nat. War Coll., Washington, D.C.; admitted to Ill. Supreme Court Bar 1946, to U.S. Supreme Court 1951; Legal Div., U.S. Office of Mil. Govt., Berlin 1947; Asst. District Attorney, U.S. Mil. Govt. Courts, Frankfurt 1947-50; Sec. Law Cttee., Allied High Comm. 1950-52; mem. Mission to NATO and OECD, Paris 1952-54; Office of Exec. Sec. Dept. of State 1954-55; Exec. Sec. to Dir. of Int. Co-operation Admin. 1955-59; U.S. Econ. Co-ordinator for CENTO Affairs, Ankara 1959-63; Chief, Econ. and Commercial Sections, Cairo 1963-66; Deputy Dir. Office of Econ. and Social Affairs, Dept. of State 1967-68, Dir. 1968-71; Co-ordinator, UN Multilateral Devt. Programmes, Dept. of State 1971-74, Acting Deputy Asst. Sec. for Econ. and Social Affairs 1971, 1973; Deputy Dir.-Gen. Int. Labour Org. (ILO) 1974-78; del. to many int. confs.; mem. American Bar Assen., American Foreign Service Assen.; Superior Honour Award, Dept. of State 1972. *Leisure interests:* reading, tennis, fencing, skiing. *Address:* Department of State, Washington D.C.R. 1509 (Office); Tower Villas, Apartment 1001, 3800 N. Fairfax Drive, Arlington, Va. 22203, U.S.A. (Home). *Telephone:* (202) 63-21120 (Office); (703) 525-9755.

MacDONALD, Rt. Hon. Malcolm John, O.M., P.C., M.A.; British diplomatist; b. 17 Aug. 1901, Lossiemouth, Scotland; s. of James Ramsay MacDonald (fmr. British Prime Minister) and Margaret MacDonald; m. Audrey Rowley 1946; one d.; ed. Bedales and Oxford Univ.; Labour M.P. for Bassetlaw Div. of Notts. 1929-31, and Nat. Labour 1931-35 and for Ross and Cromarty 1936-45; Parl. Under-Sec. of State for Dominion Affairs in First and Second Nat. Govts. Aug. and Nov. 1931-June 1935; Sec. of State for the Colonies in reconstructed Cabinet June-Nov. 1935; Sec. of State for Dominion Affairs 1935-38; Sec. of State for the Colonies May-Oct. 1938; Sec. of State for Dominion Affairs and Colonies 1938-39, for Colonies 1939-40; Min. of Health 1940-41; High Commr. in Canada 1941-46; Gov.-Gen. of the Malayan Union and Singapore May-July 1946; Gov.-Gen. of Malaya, Singapore and British Borneo 1946-48; Commr.-Gen. for U.K. in S.E. Asia 1948-55; High Commr. in India 1955-60; Chancellor Univ. of Malaya 1949-61; Co-Chair. Int. Conf. on Laos 1961-62; Gov. of Kenya Jan.-Dec. 1963, Gov.-Gen. 1963-64; Visitor, Univ. Coll., Nairobi 1963-64; High Commr. in Kenya 1964-65; Special Rep. of British Govt. in a number of Commonwealth countries in East and Cen. Africa 1965-66, in Africa 1966-69; Special Envoy to Khartoum Nov. 1968, Mogadishu Dec. 1968; Chancellor Univ. of Durham 1970-; Pres. Fed. of Commonwealth Chambers of Commerce 1971-, Royal Commonwealth Soc. 1971-, Pres. and Chair. 1975-76; Pres. G.B.-China Centre 1972-; Sr. Research Fellow, Univ. of Sussex 1971-73; Pres. Voluntary Service Overseas 1975-, Chair. 1977-. *Publications:* Down North 1945, The Birds of Brewery Creek 1947, Borneo People 1956, Angkor 1958, Birds in my Indian Garden 1961, Birds in the Sun 1962, Treasure of Kenya 1965, People and Places 1969, Titans and Others 1972. *Leisure interests:* bird watching, collecting works of art, writing books, snow and water skiing, photography. *Address:* Raspit Hill, Ivy Hatch, Sevenoaks, Kent, England. *Telephone:* Plaxtol 312.

MACDONALD, Ray Woodward; American business executive; b. 20 Dec. 1912, Chicago, Ill.; s. of Alexander R. and Emma Christine (née Woodward) MacDonald; m. Florence Shanahan 1947; three s.; ed. Univ. of Chicago School of Business Admin.; jr. Salesman, Burroughs Corpn., Detroit 1935, successively Man. Travelling Exhibit Sales Div., in Export Dept., Asst. Export Man., Export Man., Gen. Man. (Int. Activity), Vice-Pres. (Int.) 1935-57, Vice-Pres. in charge Int. Div. 1957-64, Exec. Vice-Pres. 1964-66, Pres. 1966-73, Chief Exec. Officer 1967-77, Chair. of Bd. 1973-77, Hon. Chair. 1978-; Dir. Chrysler Corpn., Detroit; mem. Int. Foreign Trade Council, etc.; Hon. C.B.E. 1977. *Address:* Burroughs Corporation, World Buildings, Detroit, Mich. 48232, U.S.A.

McDONALD, Robert E.; American business executive; b. 1915, Red Wing, Minn.; m. Marion L. Wigley 1946; two d.; ed. Univ. of Minnesota; fmrly. held various positions in airline industry; Pres. Sperry Univac 1966; Pres., Chief Operating Officer Sperry Rand Corpn. 1972-, also Dir.; Dir. SKF Industries. *Address:* Sperry Rand Corporation, 1290 Avenue of the Americas, New York, N.Y. 10019 (Office); 1125 Robin Road, Gladwyne, Pa. 19035, U.S.A. (Home).

MACDONALD, Sir Thomas Lachlan, K.C.M.G.; New Zealand politician and diplomatist; b. 14 Dec. 1898; ed. Southland Boys High School, Invercargill, N.Z. Union Steamship Co. of N.Z. 1915-18; N.Z. Army, Palestine and Egypt 1918-19; farming 1919-37; M.P. for Mataura 1938-40, 1943-46, for Wallace 1946-57; N.Z. Army, N. Africa 1940-43; Minister of Defence 1950-57, of Civil Aviation 1950-54, of External Affairs 1954-57, of Island Territories 1954-57; High Commr., U.K. 1961-68, concurrently Amb. to Ireland 1966-68 and to EEC 1961-67; N.Z. National Party. *Address:* 1 Camellia Grove, Parklands, Waikanae, New Zealand.

McDONNELL, James Smith, M.S.; in Aeronautical Eng.; American aerospace executive; b. 9 April 1899, Denver, Colo.; s. of James Smith McDonnell and Susan Belle Hunter McDonnell; m. 1st Mary Elizabeth Finney 1934 (died 1949); m. 2nd Priscilla Brush Forney 1956; two s. one stepson, two stepdaughters; ed. Princeton Univ. and Massachusetts Inst. of Tech.; Engineer and Pilot, Huff Daland Airplane Co., Ogdensburg, N.Y. 1924; Stress analyst and draughtsman Consolidated Aircraft Co., Buffalo, N.Y. 1925; Asst. Chief Engineer, Stout Metal Airplane Co., Dearborn, Mich. 1925; Chief Engineer, Hamilton Aero Mfg. Co., Milwaukee 1926-27, Eng. Consultants, McDonnell and Assocs., Milwaukee 1928-29; Vice-Pres. Airtransport Eng. Corpn., Chicago 1930-31; Engineer, Test Pilot, Great Lakes Aircraft Corpn., Cleveland 1932; Chief Project Engineer for Landplanes, Glenn L. Martin Co., Baltimore 1933-38; Founder, Dir. and Chair. McDonnell Aircraft Corpn., St. Louis, Mo. 1939-67; Chair. and Chief Exec. Officer McDonnell Douglas Corpn. 1967-72, Chair. 1972-; NATO Defense Coll., Ancien; Nat. Alliance of Businessmen 1967-69; mem. Advisory Council, Center for Strategic and Int. Studies, Washington, D.C.; mem. Civic Progress Inc., St. Louis; mem. Bd. of Dirs. Atlantic Council of the U.S.A., UN Assen. of the U.S.A., Population Crisis Cttee.; Hon.

Fellow, American Inst. of Aeronautics and Astronautics, Royal Aeronautical Soc.; mem. Bd. of Trustees, Nat. Space Club Scientific and Educ. Foundation; Hon. Dr. of Eng. (Missouri) 1957, (Washington Univ., St. Louis, Mo.) 1958, Hon. LL.D. (Princeton) 1960, (Arkansas) 1965, Hon. D.Sc. (Clarkson Coll., Potsdam, N.Y.) 1976, Hon. M.D. (Washington Univ.) 1977; St. Louis Award 1959, Daniel Guggenheim Medal 1963, Robert J. Collier trophy, Nat. Aeronautics and Space Admin. Public Service Awards 1966, 1969, Meritorious Service to Aviation Award, Nat. Business Aircraft Assn. 1966, Prometheus Award of Nat. Electrical Mfrs. Assn. 1966; Nat. Acad. of Eng. Founders Medal 1967, Forrestal Award 1972. *Leisure interest:* golf. *Address:* McDonnell Douglas Corporation, Post Box 516, St. Louis, Mo. 63166, U.S.A.

McDONNELL, Sanford N., M.S.; American business executive; b. 12 Oct. 1922, Little Rock, Ark.; s. of William A. and Carolyn C. McDonnell; nephew of James S. McDonnell (*q.v.*); m. Priscilla Robb; one s. one d.; ed. Princeton Univ., Univ. of Colorado and Washington Univ.; joined McDonnell Aircraft Co. 1948, Vice-Pres. (Project Man.) 1959, F4H Vice-Pres. and Gen. Man. 1961, mem. Bd. of Dirs. 1962-67, mem. Finance Cttee. 1962, Exec. Cttee. 1963; Vice-Pres. Aircraft Gen. Man. 1965, Pres. 1966; Dir. McDonnell Douglas Corpn. 1967, Vice-Pres. March 1971; Exec. Vice-Pres. McDonnell Aircraft Co. March 1971; Pres. McDonnell Douglas Corpn. 1971-72, Pres. and Chief Exec. Officer May 1972-; mem. Bd. of Govs. Aerospace Industries Assn. Nov. 1974-; Fellow, American Inst. of Aeronautics and Astronautics and mem. many other professional orgs.; mem. Bd. of Dirs. First Union Bankcorpn. in St. Louis; mem. Bd. of Trustees, Washington Univ. *Address:* McDonnell Douglas Corporation, P.O. Box 516, St. Louis, Mo. 63166 (Office): 24 Oakleigh Lane, St. Louis, Mo. 63124, U.S.A. (Home).

MacDOUGALL, Sir (George) Donald (Alastair), C.B.E., F.B.A., LL.D., LITT.D.; British economist; b. 26 Oct. 1912, Glasgow, Scotland; s. of Daniel MacDougall and Beatrice Miller; m. 1st Bridget Bartrum 1937 (dissolved 1977), one s. one d.; m. 2nd Laura Margaret, Lady Hall 1977; ed. Balliol Coll., Oxford; Asst. Lecturer, Leeds Univ. 1936-39; mem. Sir Winston Churchill's Statistical Branch 1939-45 and 1951-53; Fellow Wadham Coll., Oxford 1945-50, Nuffield Coll. 1947-64, Hon. Fellow, Wadham Coll. 1964-, Nuffield Coll. 1967-; Reader in Int. Econs., Oxford 1951-52; Econ. Dir. OEEC, Paris 1948-49; Econ. Dir. Nat. Econ. Devt. Council (NEDC) 1962-64; Dir.-Gen. Dept. of Econ. Affairs 1964-68; Head of Govt. Econ. Service and Chief Econ. Adviser to Treasury 1969-73; Chief Econ. Adviser Confed. of British Industry 1973-; Pres. Royal Econ. Soc. 1972-74. *Publications:* The World Dollar Problem 1957, Studies in Political Economy (2 vols.) 1975, and other books and articles on economic matters. *Leisure interests:* fishing, walking. *Address:* Confederation of British Industry, 21 Tothill Street, London S.W.1, England. *Telephone:* 01-930 6711.

McDOWALL, Robert John Stewart, D.SC., M.D., F.R.C.P. (Edin.); British physiologist; b. 1892, Auchengaillie; s. of Robert McDowall and Fanny Grace Stewart; m. 1st Jessie Mary Macbeth 1921 (died 1963); m. 2nd Jean Esther Rotherham 1964; two d.; ed. Edinburgh Univ.; Asst. Lecturer in Physiology, Edinburgh Univ. 1919-21; Lecturer in Experimental Physiology and Pharmacology, Leeds Univ. 1921-23; Lecturer in Applied Physiology, London School of Hygiene 1927-29; served in Royal Army Medical Corps 1914-18, also 1940-41; Prof. of Physiology, King's Coll., London Univ. 1923-59, Prof. Emer. 1959-; Deputy Asst. Dir. of Medical Services, Egyptian Expeditionary Force; Examiner for London, Edinburgh, Bristol, Manchester, Durham, Sheffield, Aberdeen, and Leeds Univs., Royal Coll. of Physicians and Royal Coll. of Surgeons (England, Ireland, India, Australia, Egypt and Scotland); Pres. Physiology section of British Assn. 1936; Chair. and founder mem. Medical Advisory Cttee. Asthma Research Council; Pres. European Congress of Allergy 1959; Hon. Fellow several Allergy Socs.; Arris and Gale Lecturer, Royal Coll. of Surgeons 1933; Oliver Sharpey Lecturer, Royal Coll. of Physicians 1941; Parkin Prize 1935, Cullen Prize 1938, Gold Medal, Univ. of Edinburgh 1936, Medal of Honour, Univ. of Ghent 1951. *Publications:* The Science of Signs and Symptoms in Relation to Modern Diagnosis and Treatment, Handbook of Physiology, The Control of the Circulation of the Blood 1938, A Biological Introduction to Psychology 1941, Sane Psychology 1943, The Whiskies of Scotland 1967. *Leisure interests:* golf, chess, curling (internationalist). *Address:* 34 Park Drive, London, N.W.11, England. *Telephone:* 01-455 2858.

McDOWELL, Malcolm (Malcolm Taylor); English actor; b. 13 June 1943, Leeds; m. Margot Dullea 1975. Began career with the R.S.C. at Stratford 1965-66; early television appearances in such series as Dixon of Dock Green, Z Cars. *Films include* If.... 1969, Figures in a Landscape 1970, The Raging Moon 1971, A Clockwork Orange 1971, O Lucky Man 1973, Royal Flash 1975, Aces High 1976, Voyage of the Damned 1977, Caligula 1977, The Passage 1978, Time After Time 1979. *Address:* 57 Greencroft Gardens, London N.W.6., England.

MACE, Charles Hoyt; American United Nations official; b. 19 May 1916, Chillicothe, Ohio; m.; three c.; ed. George Washington Univ., Benjamin Franklin Univ. and Industrial Coll. of the Armed Forces, Washington, D.C.; entered govt. service 1934; mil. service 1944-46; joined Dept. of State 1946; Chief, Dept. of Budget and Admin., Intergovernmental Cttee. for European Migration 1955-57; Deputy Admin. of Security and Consular Affairs (in charge of migration and refugee questions) 1962-65; Deputy Chief (with rank of Minister), U.S. Mission to European Office of UN, Geneva 1965-69; Deputy UN High Commr. for Refugees July 1970-. *Leisure interest:* Pres. the Int. American Club of Geneva. *Address:* UN Deputy High Commissioner for Refugees, Palais des Nations, CH-1211 Geneva 10, Switzerland (Office); Chillecothe, Ohio, U.S.A. (Home).

MacEACHEN, Hon. Allan J., P.C., M.P., M.A.; Canadian politician; b. 6 July 1921; ed. St. Francis Xavier Univ., Univs. of Toronto and Chicago, and Massachusetts Inst. of Tech.; Prof. of Econs., St. Francis Xavier Univ. 1946-48, later Head, Dept. of Econs. and Social Sciences; mem. House of Commons 1953-58, 1962-; Special Asst. and Consultant on Econ. Affairs to Lester Pearson 1958; Minister of Labour 1963-65; Minister of Nat. Health and Welfare 1965-68, of Manpower and Immigration 1968-70; Pres. Privy Council 1970-74; Sec. of State for External Affairs 1974-76; Pres. Privy Council and Govt. Leader of House 1976-79, also Deputy Prime Minister 1977-79; Co-Chair. Conf. on Int. Econ. Co-operation 1975-77; Hon. D.Iur. (St. Francis Xavier Univ.) 1964, Hon. D.C.L. (Acadia Univ.) 1966, Hon. L.H.D. (Loyola Coll., Baltimore, Md.) 1966, Hon. LL.D. (St. Mary's Univ.) 1973, (Dalhousie Univ.) 1974, (Wilfrid Laurier Univ.) 1976; Liberal. *Address:* Privy Council, House of Commons, Ottawa, Ontario (Office); R.R.1, Whycocomagh, Nova Scotia, Canada (Home).

MACEDO, Air Marshal Joelmir Campos de Araripe; Brazilian air force officer; b. Rio de Janeiro; joined Brazilian Army 1928, transferred to Air Force 1941; a pioneer of the Govt. air service linking the remote areas of Brazil to provincial capitals, Correio Aereo Nacional (CAN); has held posts of Dir. Galcão Air Factory, Pres. Nat. Engines Plant, Dir. of Air Routes, Pres. Coordinating Cttee. for Rio de Janeiro Int. Airport; Minister of Aeronautics 1974-. *Address:* Ministério da Aeronática, Brazília, Brazil.

MACEK, Josef, DR. CS.; Czechoslovak historian; b. 8 April 1922, Řepov; ed. Charles Univ., Prague, and State Archive School, Prague; Prof., Coll. of Political and Econ. Sciences 1949; Dir. Historical Inst., Czechoslovak Acad. of Sciences 1952-69; Corresponding mem. Czechoslovak Acad. of Sciences 1952-60, mem. 1960, Academician 1960-; Chair. Czechoslovak Soc. for Dissemination of Political and Scientific Knowledge 1957-65; mem. Ideological Comm., Cen. Cttee. CP of Czechoslovakia 1963-69; Deputy to Nat. Ass. 1964-69; mem. Presidium World Peace Council 1962-70; Chair. Czechoslovak Peace Cttee. 1966-68, mem. Presidium 1968-70; Deputy to House of the People, Fed. Assembly Jan.-Dec. 1969; Cand. mem. Cen. Cttee. CP of Czechoslovakia 1962-66, mem. 1966-69, Inst. of Czech Language 1970-75, Inst. of Archaeology 1975-; State Prize 1952, Czechoslovak Peace Prize 1967. *Publications:* mainly on history of Hussite Movement in Bohemia, including Husitské revoluční hnutí (Hussite Revolutionary Movement) 1952 (State Prize), Der Tiroler Bauernkrieg und M. Gaismair 1965, Renaissance and Reformation, Il Rinascimento italiano 1972, Jean Hus et les traditions Hussites 1973, La Riforma Populare 1973, La Revolución Husita 1975. *Address:* Institute of Archaeology, Letenská 4, Prague (Office); Kadeřákovská 1, Prague, Czechoslovakia. *Telephone:* 322013 (Home).

McELROY, William David, PH.D.; American professor and scientist; b. 22 Jan. 1917, Rogers, Tex.; s. of William D. McElroy and Ora Shipley McElroy; m. 1st Nella Winch 1940 (divorced), two s. two d.; m. 2nd Marlene Anderegg DeLuca 1967, two s.; ed. Reed Coll. and Stanford and Princeton Univs.; Instructor in Biology, Johns Hopkins Univ. 1946, Asst. Prof. 1946-48, Assoc. Prof. 1948-51, Dir. McCollum-Pratt Inst. 1949-64, Prof. of Biology 1951-69, Chair. Dept. of Biology 1956-69; Harvey Lecturer, New York Acad. of Sciences 1957; Exec. Editor Archives of Biochemistry and Biophysics 1958-69; Editor Biochemical and Biophysical Research Communications 1959-; Chair. AIBS Microbiology Advisory Cttee., Office of Naval Research 1952-57; mem. President's Science Advisory Cttee. 1962-67, Bd. of Dirs. of Nat. Insts. of Health 1966-; Dir. U.S. Nat. Science Foundation 1969-72; Chancellor, Univ. of Calif., San Diego 1972; mem. Soc. of Biological Chemists (Pres. 1963-64), American Acad. of Arts and Sciences, A.A.A.S., Pres. 1975, Chair.

Bd. of Dirs. 1977, American Inst. of Biological Sciences (Pres. 1968), Nat. Acad. of Sciences, etc.; numerous hon. degrees; Barnett Cohen Award, American Soc. of Bacteriology 1958, Rumford Prize, American Acad. of Arts and Sciences 1964. *Publications:* Cell Physiology and Biochemistry 1961; Editor with B. Glass: Copper Metabolism 1950, Phosphorus Metabolism (2 vols.) 1951-52, Mechanism of Enzyme Action 1954, Amino Acid Metabolism 1955, Inorganic Nitrogen Metabolism 1956, The Chemical Basis of Heredity 1957, The Chemical Basis of Development 1958, Light and Life 1961; Editor with C. P. Swanson: Foundations of Modern Biology (series) 1961-64; co-editor: Analytical Biochemistry. *Leisure interests:* golf, music, tennis. *Address:* Office of the Chancellor, University of California, San Diego, La Jolla, Calif. 92067, U.S.A.

McELVENNY, Ralph Talbot, J.D.; American lawyer and businessman; b. 20 June 1906, Tacoma, Wash.; s. of Alice Talbot and Robert F. McElvenny; m. Elisabeth Steiwer 1934; one s. two d.; ed. Stanford Univ.; Attorney, Guaranty Trust Co., New York 1931-33; Nat. Bank Conservator U.S. Treasury Dept., Washington, D.C. 1933-34; Asst. Dir. U.S. Securities and Exchange Comm. 1934-45; Vice-Pres. and Asst. to Chair. American Natural Gas Co. 1945-57; Chair. and Dir. American Natural Gas Co. and Michigan Consolidated Gas Co. 1957-72; Dir. of numerous other companies. *Leisure interests:* tennis, golf, hunting, fishing. *Address:* 1 Woodward Avenue, Detroit, Mich. 48226 (Office); 225 Stephens Road, Grosse Point Farms, Mich. 48236, U.S.A. (Home). *Telephone:* WO5-8300.

McENTEE, Peter Donovan, C.M.G., O.B.E.; British soldier, colonial civil servant and diplomatist; b. 27 June 1920, England; s. of Ewen Brooke McEntee and Caroline Laura Clare Bayley; m. Mary Elisabeth Sherwood 1945; two d.; ed. Haileybury Coll., Herts.; served in King's African Rifles 1939-45; H.M. Overseas Civil Service 1946-63; District Commr., later Principal of Kenya Inst. of Admin.; H.M. Diplomatic Service 1963-67, First Sec., Lagos 1964-67; Commonwealth Office, later Foreign and Commonwealth Office 1967-72; Consul-Gen., Karachi 1972-75; Gov. and C.-in-C., Belize 1976-. *Leisure interests:* music, natural history, golf, reading. *Address:* Belize House, Belmopan, Belize.

MacENTEE, Sean; Irish politician; b. 22 Aug. 1889, Belfast; s. of James and Mary MacEntee; m. Mairead de Brun 1921; one s. two d.; ed. St. Malachy's Coll., Belfast and Belfast Coll. of Tech.; Consulting Elec. Engineer, Co.-Dir. and Registered Patent Agent; sentenced to death by British Court Martial June 1916 for participation in Irish Insurrection in that year; sentence commuted to penal servitude for life; released under amnesty June 1917; mem. Exec. Cttee. Irish Republican Army 1917-21; Republican Reputy and mem. Dáil Eireann 1918-22; Fianna Fáil Deputy 1927-69; Minister of Finance in First De Valera Govt. 1932, and subsequent Govts. 1933 and 1937 and in first and second Govts. of Eire 1937 and 1938-39; Minister of Industry and Commerce 1939-41, of Local Govt. and Public Health, 1941-46, of Local Govt. 1946-48; Minister of Finance 1951-54; Minister of Health 1957-65, and Social Welfare 1958-61; Tanaiste (Deputy Prime Minister) 1959-65; Signatory to London Agreement 1938; Nat. Treas. Sinn Fein Org. 1924-26, and Fianna Fáil 1926-32; mem. Nat. Exec. Fianna Fáil 1926-, Nat. Vice-Pres. 1955-; mem. President's Council of State 1948-; mem. Consultative Ass., Council of Europe, Strasbourg 1949-51, 1967-69; retd. from active politics 1969; Hon. Fellow in Dentistry (Royal Coll. of Surgeons, Ireland); Hon. Life Mem. Irish Dental Assn.; Hon. LL.D. (Nat. Univ. of Ireland); Knight Grand Cross (1st class) of Order Pius IX; 1916 Medal with bar. *Publications:* Poems 1918, Episode at Easter 1966. *Address:* Montrose, 30 Trimleston Avenue, Booterstown, Co. Dublin, Ireland.

MACERATA, Dr. Giorgio; Italian lawyer and business executive; b. 1913, Venice; m. Maria Barina 1939; one d.; ed. Univ. of Padua; legal-commercial posts, Venice 1935-39; Gen. Sec. Serbatoi Montani per Irrigazione ed Elettricità, SAVA Group 1939-48; Sec. at President's Office, Montecatini 1949-51, Vice-Cen. Man. 1951-53, Man. Dir. Compagnie Néerlandaise de l'Azote et Ammoniaque Synthétique et dérivés, Brussels 1954-59, Head, Admin. Services Dept., Montecatini 1959-62; Man. Dir. and Gen. Man. Montecatini Group (now Montecatini-Edison) 1963-68, Vice-Pres. and Man. Dir. 1968; Vice-Pres. and Man. Dir. Compagnie Néerlandaise de l'Azote. *Leisure interests:* contemporary music, jazz, modern art, reading histories and biographies. *Address:* Montecatini-Edison, Foro Bonaparte 31, Milan, Italy. *Telephone:* 6333 or 6334.

McEWAN, Geraldine; British actress; b. 9 May 1932, Old Windsor, Berks.; d. of Donald and Norah McKeown; m. Hugh Cruttwell 1953; one s. one d.; ed. Windsor County Girls' School; first engagement with Theatre Royal, Windsor 1949; London appearances in Who Goes There? 1951, Sweet Madness, For Better, For Worse, Summertime; Shakespeare Memorial Theatre, Stratford on Avon 1956, 1958, 1961 playing Princess of France (Love's Labours Lost), Olivia (Twelfth Night), Ophelia (Hamlet), Marina (Pericles), Beatrice (Much Ado about Nothing); played in School for Scandal, U.S.A. 1962, The Private Ear and The Public Eye, U.S.A. 1963; mem. Nat. Theatre, and has played in Armstrong's Last Goodnight, Love for Love, A Flea in her Ear, The Dance of Death, Edward II, Home and Beauty, Rites, The Way of the World, The White Devil, Amphitryon 38, Dear Love 1973, Chez Nous 1974, The Little Hut 1974, Oh Coward! (musical) 1975, On Approval 1975, Look After Lulu 1978; TV: The Prime of Miss Jean Brodie 1978; TV Critics Best Actress Award 1979.
Address: c/o Larry Dalzell, 3 Goodwins Court, St. Martins Lane, London, W.C.2, England.

McEWEN, Rt. Hon. Sir John, P.C., G.C.M.G., C.H.; Australian fmr. politician and farmer; b. 29 March 1900, Chiltern, Victoria; s. of David James McEwen and Amy Ellen Porter; m. 1st Annie Mills McLeod (died 1967); m. 2nd Mary Eileen Byrne 1968; enlisted Australian Imperial Forces 1918; farmer Stanhope, Victoria 1919-76; mem. House of Reps. for Echuca Div. 1934-37, for Indi Div. 1937-49, for Murray Div. 1949-71; Minister for the Interior 1937-39, for External Affairs 1940, and for Air and Civil Aviation 1940-41; mem. Australian War Cabinet 1940-41, Advisory War Council 1941-45, Australian Del., UN Conf. on Int. Org., San Francisco 1945; Deputy Leader Country Party 1943-58, Leader 1958-71; led numerous dels. to GATT talks, Geneva; Minister for Commerce and Agric. 1949-56, for Trade 1956-63, for Trade and Industry 1963-71; Deputy Prime Minister 1958-71; Prime Minister Dec. 1967-Jan. 1968; Order of the Rising Sun (1st Class) 1973. *Leisure interest:* reading. *Address:* Commonwealth Bank Building, 367 Collins Street, Melbourne, Vic. 3000, Australia (Office). *Telephone:* Melbourne 62-1734.

McFADZEAN, Baron (Life Peer), cr. 1966, of Woldingham; **William (Hunter) McFadzean,** K.T., C.I.E.E., J.DIP.M.A.; British chartered accountant; b. 17 Dec. 1903; s. of the late Henry McFadzean; m. Eileen Gordon 1933; one s. two d. (one adopted); ed. Stranraer Acad. and High School, and Glasgow Univ.; Chartered Accountant 1927-32; joined British Insulated Cables Ltd. ■■ Accountant 1932, apptd. Financial Sec. 1937, Exec. Man. 1942; on amalgamation of British Insulated Cables Ltd. and Callender's Cable & Construction Co. Ltd. in 1945 apptd. to the Bd. of BICC, also Exec. Dir.; Deputy Chair. 1947, Chief Exec. Dir. 1950, Man. Dir. 1954-61, Chair. 1954-73, Hon. Pres. 1973-; Dir. Midland Bank Ltd. 1959-, Deputy Chair. 1968-77; Dir. Midland Bank Trust Co. Ltd. 1959-67, English Electric Co. Ltd. 1966-68, Steel Co. of Wales Ltd. 1966-67, Canadian Imperial Bank of Commerce 1967-74 (now Dir. emer.), Home Oil Co. Ltd. 1972-77, Standard Broadcasting Corpn. Ltd. 1976-; Deputy Chair. RTZ/BICC Aluminium Holdings Ltd. 1967-73; Dir. Anglesey Aluminium Ltd. 1968-73, The Canada Life Assurance Co. 1969; Deputy Chair. The Canada Life Assurance Co. (G.B.) 1971-; Chair., Canada Life Unit Trust Managers Ltd. 1971-, Standard Broadcasting Corpn. (U.K.) Ltd. 1972, Home Oil (U.K.) Ltd. 1972-78; mem. Council Inst. of Dirs. 1954-74, Ministry of Labour Advisory Bd. on Resettlement of Ex-Regulars 1957-60, Bd. of Trade Advisory Council on Middle East Trade 1958-60; Pres. Fed. British Industries 1959-61; Chair. Council of Industrial Feds. of European Free Trade Asscns. 1960-63, Export Council for Europe 1960-64; Hon. Pres. Export Council for Europe 1964-71; Pres. British Electrical Power Convention 1961-62; mem. Ministry of Transport Shipping Advisory Panel 1962-64; Vice-Pres. British/Swedish Chamber of Commerce 1963-74; Pres. British Nuclear Forum 1964-66; mem. Court of British Shippers' Council 1964-74; (Pres. British Shippers' Council 1968-71); Chair. British Nat. Export Council 1964-66, Pres. 1966-68; Chair. Commonwealth Export Council 1964-66; Vice-Pres. Middle East Assn. 1965, City of London Soc. 1965-72; mem. Council Anglo-Danish Soc. 1965-75, Chair. 1969-74, Hon. Pres. 1975-; mem. Advisory Cttee. for The Queen's Award to Industry 1965-67; Chair. Review Cttee. for The Queen's Award to Industry for 1970; mem. Council CBI 1965-74; Pres. The Coal Trade Benevolent Assn. 1967-68; mem. Council Foreign Bondholders 1968-74; Pres. The Electrical and Electronics Industries Benevolent Assn. 1968-69; Deputy Chair. Nat. Nuclear Corpn. Ltd. 1973; Companion I.E.E. 1956; Grand Officer Order of Infante Dom Henrique (Portugal) 1972, Grand Commdr. Order of the Dannebrog (Denmark) 1974. *Leisure interests:* travelling, golf, gardening. *Address:* Garthland, Woldingham, Surrey; ■■d 114 Whitehall Court, London, S.W.1, England. *Telephone:* Woldingham 3222 (Surrey); 01-930 3160 (London).

McFADZEAN, Sir Francis (Frank) Scott, Kt., M.A.; British oil and airline executive; b. 26 Nov. 1915, Troon, Ayrshire; m. one d.; ed. Glasgow Univ. and London School of Econs.; fmr. civil servant, Bd. of Trade and the Treasury; later worked for Malayan

Govt. and Colonial Devt. Corpn. in Far East; joined Shell 1952, held various posts in Middle East, Far East and London; Dir. Shell Int. Petroleum Co. 1962, Shell Oil Co. 1972-76; Dir. Shell Transport and Trading Co. Ltd. 1964-, Man. Dir. 1971, Chair. 1972-76, subsequently non-exec. dir.; Man. Dir. Royal Dutch/Shell Group of Cos. 1964-76; Man. Dir. Shell Petroleum Co. Ltd. 1964-72, Chair. 1972-76; Man. Dir. Bataafse Petroleum Maatschappij N.V. (now Shell Petroleum N.V.) 1964-72, Shell Int. Marine Ltd. 1966-76; Chair. Shell Canada Ltd. 1970-76; Dir. Beecham Group 1974-, British Airways 1975-, Chair. and Chief Exec. 1976-78, Part-time Chair. 1978-; Visiting Prof. of Econs., Univ. of Strathclyde 1967-76; Chair. Trade Policy Research Centre 1971-; mem. Steering Bd., Strathclyde Div., Scottish Business School 1970-76; Hon. LL.D. (Strathclyde) 1970, Hon. Fellow, L.S.E. 1974; Commdr., Order of Orange-Nassau. *Publications:* Galbraith and the Planners 1968, Energy in the Seventies 1971, The Operation of a Multi-National Enterprise 1971, The Economics of John Kenneth Galbraith 1977. *Address:* Shell Centre, London, SE1 7NA, England.

McFALL, Richard Graham; British commodity merchant; b. 31 Jan. 1920, Blundellsands, Lancs.; s. of H. J. M. and Mrs. S. G. McFall; m. Louise Mitford 1945; one s. one d.; ed. Clifton Coll., Bristol; joined Pacol Ltd. 1938; served Hon. Artillery Co. 1939-40; Asst. Sec., then Sec. W. African Produce Control Bd. 1941-45; Motor and Air Products Ltd. 1946-48; rejoined Pacol Ltd. 1949, Dir. 1951; Chair. London Cocoa Terminal Market Assen. 1954-55, Cocoa Assen. of London Ltd. 1958-59; Dir. Gill & Duffus Group Ltd. 1962, Man. Dir. 1965-71, Chair. 1971-76, Vice-Chair. 1976-78. *Leisure interests:* travel, golf. *Address:* St. Dunstan's House, 201 Borough High Street, London, SE1 1HW (Office); Beconridge, Beech Avenue, Effingham, Surrey, KT24 5PJ, England (Home). *Telephone:* 01-407 7050 (Office); Bookham 52772 (Home).

McFARLAND, James P., M.B.A.; American business executive; b. 13 Jan. 1912, Watertown, S.D.; m.; two c.; ed. Dartmouth Coll. and Amos Tuck School of Business Admin.; joined Gen. Mills Inc. 1934; Dir. of Operations, Grocery Products Div. 1954; Vice-Pres. and Gen. Man. Grocery Products Div. 1957, also Gen. Man. Sperry Operations 1963, Flour Div. 1964, Exec. Vice-Pres. 1964, Pres. and Chief Operating Officer 1967, Chief Exec. Officer 1968-77, Chair. of Bd. 1969-77; Dir. Fed. Reserve Bank of Minneapolis, Shenandoah Oil Corpn., Northwestern Bell Telephone Co., Prudential Insurance Co. of America, Grocery Mfrs. of America, Toro Co. of America, etc. *Leisure interest:* golf. *Address:* c/o General Mills Inc., P.O. Box 1113, Minneapolis, Minn. 55440, U.S.A.

McFARLANE, Alexander N., B.S.; American business executive; b. 12 Nov. 1909, Lawrence, Mass.; s. of Alexander and Sarah (née Nelson) McFarlane; m. Florence Reed Campman 1936; two d.; ed. Tufts Univ. Tech. Service Dept., Corn Products Co. 1934-36, Tech. Sales Dept. 1936-39, Asst. Dir. of Research 1939-44, Man. of Chemical Sales 1944-47, Exec. Asst. to Gen. Sales Man. 1947-56, Vice-Pres. (Sales) 1956-57, Pres. Corn Products Sales Co. 1957-59, Corporate Sr. Vice-Pres. (Sales) 1959-61, Dir. Corn Products Co. (later C.P.C. Int. Inc.) 1961-70, Exec. Vice-Pres. (Domestic Operations) 1962-64, Pres. 1964-65, Chair. and Chief Exec. Officer 1965, Chair. C.P.C. Int. Inc. 1965-69, Hon. Chair. 1970-; Chair. Food and Drug Law Inst. Inc. 1965-68, Nutrition Foundation 1965-69, Business Council for Int. Understanding 1966-69. *Address:* C.P.C. International Inc., International Plaza, Englewood Cliffs, N.J. 07632 (Office); 28 Waldo Lane, Manhasset, N.Y. 11030, U.S.A.

MACFARLANE, Sir George Gray, C.B., DR.ING., F.I.E.E.; British consultant scientist; b. 8 Jan. 1916, Airdrie; s. of the late John Macfarlane; m. Barbara Grant Thomson 1941; one s. one d.; ed. Airdrie Acad., Glasgow Univ., Tech. Hochschule, Dresden, Germany; Telecommunications Research Establishment 1939-60; Deputy Dir. Nat. Physical Lab., Teddington 1960-62; Dir. Royal Radar Establishment, Malvern 1962-67; Controller of Research, Ministry of Tech. and Ministry of Aviation Supply 1967-71; Controller of Research and Devt. Establishments, Ministry of Defence 1971-76; mem. Post Office Bd. 1978-; now in private consultancy; Fellow Inst. of Math. and its Applications; Trustee Imperial War Museum 1978-; Hon. LL.D. (Glasgow). *Publications:* articles in Proceedings of the Physical Society, Physics Review, Proceedings of the Institution of Electrical Engineers, Philosophical Magazine. *Leisure interests:* gardening, walking. *Address:* Red Tiles, Orchard Way, Esher, Surrey, England. *Telephone:* Esher 63778.

MacFARQUHAR, Sir Alexander, K.B.E.; fmr. British United Nations official; b. 6 Nov. 1903, Inverness, Scotland; s. of Roderick MacFarquhar and Janet McMurtrie; m. Berenice Whitburn 1929; one s.; ed. Aberdeen Univ. and Emmanual Coll., Cambridge; Indian Civil Service 1926-47, Deputy Commr. Ferozepore 1930-33, Amritsar 1933-36, Settlement Officer Amritsar 1936-41, Deputy Sec. Govt. of India 1941, Deputy Dir.-Gen., Directorate-Gen. of Supply 1943-46, Dir.-Gen. Disposals 1946-47; Commerce and Educ. Sec. Govt. of Pakistan 1947-51; Resident Rep. to Pakistan of UN Tech. Assistance Bd. (TAB) 1952-55, Regional Rep. to Far East, Bangkok 1955-60, Special Adviser of UN Sec.-Gen. for Civilian Affairs in the Congo 1960-62; UN Under-Sec. (Dir. of Personnel) 1962-1967; Chair. Pakistan Soc. *Leisure interests:* investment, walking. *Address:* Ottershaw, Beverley Lane, Coombe Hill, Kingston, Surrey, England. *Telephone:* 01-942 5432.

McGANNON, Donald H.; American broadcasting executive; b. 9 Sept. 1920, New York; s. of Robert E. and Margaret (Schmidt) McGannon; m. Patricia H. Burke 1942; six s. seven d.; ed. Fordham Univ. and Fordham School of Law; Network Exec., Gen. Man., owned and operated stations; DuMont TV Network 1952-55; Pres., Chair. of Bd., Westinghouse Broadcasting Co. Inc. (Ind.), (Md.), (Del.) 1955-; Pres. Westinghouse Electric Corpn.—Broadcasting, Learning, Leisure Time Div. 1968; Chair. of Bd. TV Advertising Reps. Inc., Radio Advertising Reps. Inc., Westinghouse Learning Corpn., WBC Program Sales Inc., WBC Production Inc., Group W Films, Broadcast Rating Council Inc., Conn. Comm. for Higher Educ.; Trustee, Nat. Urban League; Dir. of many other broadcasting asscns.; Trustee, Sacred Heart Univ., New York Univ. and others; Chair. The Advertising Council Inc.; mem. Advisory Council, Notre Dame Univ.; mem. Pontifical Comm. on Communications Media; Distinguished Service Award, Nat. Assen. of Broadcasters 1964; special Emmy Award 1968; Trustees' Award, Nat. Acad. TV Arts and Sciences 1967-68; Hon. Degrees (Fordham, Scranton, Creighton, St. Bonaventure, Temple and Fairfield Univs., and Emerson Coll.). *Address:* Westinghouse Broadcasting Co. Inc., 90 Park Avenue, New York, N.Y. 10016, U.S.A.

McGEE, Gale William, PH.D.; American professor and politician; b. 17 March 1915, Lincoln, Neb.; m. Loraine Baker 1939; two s. two d.; ed. Nebraska State Teachers' Coll., Univs. of Colorado and Chicago; High School teacher 1936-40; History Instructor, Neb. Wesleyan Univ. 1940-43, Iowa State Coll. 1943-44, Univ. of Notre Dame 1944-45, Univ. of Chicago 1945-46; Prof. of History, Univ. of Wyoming 1946-58; Senator from Wyoming 1958-77; U.S. Perm. Rep. to OAS 1977-; Chair. Senate Post Office and Civil Service Cttee.; mem. Senate Appropriations and Foreign Relations Cttees., Nat. Comm. on Food Marketing; Hon. LL.D. (Wyoming, Eastern Kentucky, American Univ. Washington, Allegheny); Hon. L.H.D. (Seton Hall); Golden Fleece Award 1966; Torch of Liberty Award 1966; several other awards; Democrat. *Publication:* The Responsibilities of World Power 1968. *Address:* Department of State, Room 6494, Washington, D.C. 20520, U.S.A.

McGHEE, George C., D.PHIL.; American government official and business executive; b. 10 March 1912, Waco, Tex.; s. of George Summers McGhee and Magnolia Spruce; m. Cecilia DeGolyer 1938; two s. four d.; ed. Southern Methodist Univ., Dallas, Univ. of Oklahoma, Oxford Univ. and Univ. of London; Subsurface Geologist, The Atlantic Refining Co. 1930-31; Geophysicist, Continental Oil Co. 1933-34; Vice-Pres. Nat. Geophysical Co., Dallas 1937-39; Partner DeGolyer, MacNaughton and McGhee 1940-41; independent explorer for and producer of oil 1940-; Sr. Liaison Officer OPM and WPB 1941-43; U.S. Deputy Exec. Sec. Combined Raw Materials Bd. 1942-43; Special Asst. to the Under-Sec. of State for Econ. Affairs 1946-47; Co-ordinator for Aid to Greece and Turkey, Dept. of State 1947-49; Special Rep. of Sec. of State to Near East on Palestine Refugee problem with personal rank of Minister 1949; Special Asst. to Sec. of State 1949; Asst. Sec. Near East, South Asian and African Affairs 1949-51; Amb. to Turkey 1951-53; Adviser N.A.T.O. Council, Ottawa 1951; Dir. Inst. of Inter-American Affairs, Inter-American Educ. Foundation 1946-51; Dir. U.S. Commercial Co. 1946; Dir. Foreign Service Educ. Foundation 1947-; Consultant, Nat. Security Council 1958-59; Counsellor, Dept. of State and Chair. Policy Planning Council Jan.-Nov. 1961; Under-Sec. of State for Political Affairs 1961-63; Amb. to Fed. Repub. of Germany 1963-68; Amb. at Large 1968-69; Dir. Panama Canal Co. 1962-63, Mobil Oil Co. 1969-, Procter & Gamble Co. 1969-, American Security & Trust Co. 1969-, Trans World Airlines 1976-; Chair. of Bd. Saturday Review/World 1973-76; Chair. Smithsonian Assocs. 1976-78; Owner McGhee Production Co.; Dir. of Trustees, Robert Coll., Istanbul 1953-61, Brookings Inst. 1954-61, Cttee. for Econ. Devt. 1957-, Aspen Inst. Humanistic Studies 1958-, Vassar Coll. 1959-61, Duke Univ. 1962-78; Chair. Business Council for Int. Understanding 1969-74; Chair. English Speaking Union, U.S.A. 1970-74, Deputy Chair. Int. Council of the English Speaking Union 1974; Chair. Nat. Trust for Historic Preservation 1971-, Int. Man. and Devt. Inst. 1972-, Fed. City Housing Corpn. 1972-, Piedmont Environmental Council; Trustee, George C. Marshall Research Foundation, American Council on Germany, The Asia Foundation 1974-; Dir. Atlantic

Council 1975-, Atlantic Inst. for Int. Affairs 1977-, Cordier Fellow, Advisory Council, Columbia Univ. 1977-; Pres. Fed. City Council 1970-74, etc.; mem. Bd. Nat. Civil Service League 1967-71, Salzburg Seminar 1969-71; mem. Japan-U.S. Econ. Advisory Council 1970-74, American Petroleum Inst., American Assen. Petroleum Geologists, Soc. of Exploring Geophysicists, American Inst. Mining and Metallurgical Engineers, Council on Foreign Relations (New York), American Foreign Service Assen., Acad. of Political Science, Washington Inst. of Foreign Affairs, Dept. of Conservation and Econ. Devt., Club of Rome; served in U.S.N.R. 1943-46; Lieut.-Col. U.S.A.F. Reserve 1949-; Hon. Fellow, Queen's Coll., Oxford 1968; Hon. LL.D. (Tulane Univ.) 1957, (Maryland Univ.) 1965; Hon. D.C.L. (Southern Methodist Univ.) 1953; Hon. D.Sc. (Univ. of Tampa) 1969; Legion of Merit; Asiatic Ribbon with three battle stars; mem. Order Hospital St. John of Jerusalem 1972-, numerous other awards. *Address:* 2808 N Street, N.W., Washington, D.C. 20007; and Farmer's Delight, Middleburg, Va. 22117, U.S.A. *Telephone:* 703-687-3451.

McGILL, William James, PH.D.; American university president; b. 27 Feb. 1922, New York; s. of William E. and Edna (née Rankin) McGill; m. Ann Rowe 1948; one s. one d.; ed. Fordham Coll. and Fordham and Harvard Univs.; Instructor, Fordham Univ. and Boston Coll., then Teaching Fellow at Harvard Univ.; at Lincoln Lab., Mass. Inst. of Tech. 1951, Asst. Prof. 1954; Asst. Prof. of Psychology, Columbia Univ., N.Y. 1956-58, Assoc. Prof. 1958-60, Prof. 1960-65, Pres. 1970-; Prof. of Psychology, Univ. of Calif. at San Diego, at same time serving as mem. and Chair. of Cttee. on Educ. Policy and as mem. of Academic Council of Academic Senate and of Chancellor's Senate Council 1965-68, Chair. of state-wide Academic Senate and Chancellor of Univ. of Calif. at San Diego 1968-70; Chair. Carnegie Comm. on Future of Public Broadcasting 1977-79; Dir. American Telephone and Telegraph Co. 1972-, American Council on Educ. 1972-, McGraw Hill Co. 1973-, Texaco Inc. 1973-; Trustee Trinity School 1972-; Assoc. Editor, Journal of Mathematical Psychology 1964-, Perception and Psychophysics 1966-70; Consulting Editor, Psychological Bulletin 1966-70, Psychometrika 1965-70; Fellow, A.A.A.S. 1963, American Psychological Assen. 1967, mem. Soc. of Experimental Psychologists, Gov. Bd. Psychonomic Soc. 1965-71, American Statistical Assen., Psychometric Soc. (also on Bd. of Trustees 1967-), Biometric Soc.; Achievement Award of Fordham Univ. 1968. *Publications:* Over 35 studies and reviews. *Address:* The President's Office, Columbia University, Morningside Heights, New York, N.Y. 10027 (Office); 60 Morningside Drive, New York, N.Y. 10027, U.S.A. (Home). *Telephone:* 212-280-2825.

MacGILLAVRY, Carolina Henriette, D.SC.; Netherlands crystallographer, b. 22 Jan. 1904, Amsterdam; d. of Donald MacGillavry and Alida Matthes; m. Dr. Jean-Henri Nieuwenhuijsen 1971; ed. Univ. of Amsterdam. Asst. Univs. of Leiden and Amsterdam 1929-41; Conservatrix, Univ. of Amsterdam 1941-47; Lecturer in Crystallography, Univ. of Amsterdam 1947-50, Prof. of Chemical Crystallography 1950-72; mem. Royal Acad. of Sciences, Amsterdam 1950, Gen. Sec. 1961-74; mem. Bd. of Editors of Nederlands Tijdschrift voor Natuurkunde 1939-56; mem. Bd. of Editors of Int. Tables for Crystal Structure Determination 1948-66; mem. Exec. Cttee. of Int. Union of Crystallography 1954-60; mem. Cttee. for the Award of Fellowships, Int. Fed. of Univ. Women 1952-60, Chair. 1955-60; Pres. Bd. of Child Guidance Clinic, Amsterdam 1960-72; Vice-Pres. Netherlands Cttee., Weizmann Inst. of Sciences 1974-77; mem. Council of Netherlands Nat. UNESCO Cttee. 1962-75, Deutsche Akad. der Naturforscher "Leopoldina"; Knight of Netherlands Lion. *Publication:* Fantasy and Symmetry 1976. *Leisure interests:* music, gardening. *Address:* Mensinge 63, 1083 HE Amsterdam, Netherlands. *Telephone:* 020-443999.

McGILLICUDDY, John Francis, LL.B.; American banker; b. 30 Dec. 1930, Harrison, N.Y.; s. of Michael McGillicuddy and Anna Munro; m. Constance Burtis 1954; three s. two d.; ed. Princeton Univ. and Harvard Law School; Sr. Vice-Pres. Mfrs. Hanover Trust Co. 1966, Exec. Vice-Pres. and Asst. to Chair. 1969, Vice-Chair. and Dir. Jan. 1970-71, Pres. 1971-, Chair., Chief Exec. Officer April 1979-; Dir. Cities Service Co., Kraft Inc., Sperry and Hutchinson Co., Econ. Devt. Council of New York, Westinghouse Electric Corpn., Continental Corpn., A.M.F., Inc. *Address:* Manufacturers Hanover Trust Co., 350 Park Avenue, New York, N.Y. 10022 (Office); Hilltop Place, Rye, N.Y. 10580, U.S.A. (Home). *Telephone:* 212-350-5381 (Office).

McGOVERN, George Stanley, PH.D.; American politician; b. 19 July 1922, Avon, S. Dakota; s. of Rev. J. C. McGovern and Frances McLean McGovern; m. Eleanor Faye Stegeberg 1943; one s. four d.; ed. Dakota Wesleyan Univ. and Northwestern Univ.; served U.S. Air Force, Second World War; Teacher, Northwestern Univ. 1948-50; Prof. of History and Political Science, Dakota Wesleyan Univ. 1950-53; Exec. Sec. S. Dak. Dem. Party 1953-56; mem. U.S. House of Reps. 1957-61, served Agricultural Cttee.; Dir. "Food for Peace" Programme 1961-62; Senator from South Dakota 1963-; Dem. cand. for U.S. Presidency 1972. *Publications:* The Colorado Coal Strike 1913-14 1953, War Against Want 1964, Agricultural Thought in the Twentieth Century 1967, A Time of War, a Time of Peace 1968, The Great Coalfield War (with Leonard Guttridge) 1972, An American Journey 1974, Grassroots 1978. *Address:* Senate Office Building, Washington, D.C. 20510; and Mitchell, S. Dak. 57301, U.S.A.

McGRANAHAN, Donald V., PH.D.; American social scientist; b. 24 June 1913, Nova Scotia, Canada; s. of Norvin G. McGranahan and Jenny MacAndrews; m. Nancy G. Ulrich 1940; two s. one d.; ed. Harvard Univ.; Instructor, Dept. of Psychology, Harvard Univ. 1939-41; Govt. service 1941-43; army service 1943-46; Lecturer, Dept. of Social Relations, Harvard Univ. 1946-48; Sr. Officer, Asst. Dir. in charge of Survey, Research and Devt. Branch, Bureau of Social Affairs, UN 1948-67; Dir. UN Research Inst. for Social Devt. (UNRISD) 1967-77, Consultant 1977-; Guggenheim Fellow 1946. *Publications:* recent books include: Contents and Measurement of Socio-economic Development 1970, Approaches to Social Planning 1970, Social Planning and Social Security 1970, Analysis of Socio-Economic Development Through a System of Indicators 1971, Methods of Estimation and Prediction in Socio-economic Development 1972, Development Indicators and Development Models 1972, International Comparisons of Income Distribution Statistics 1979. *Leisure interests:* squash, skiing, reading. *Address:* 47 Chemin Moïse Duboule, Petit Saconnex, Geneva, Switzerland. *Telephone:* (022) 98 96 21.

MacGREGOR, George Lescher, B.S.; American utilities executive; b. 29 Oct. 1901, Little Rock, Ark.; s. of Arthur W. and Irene (née Lescher) MacGregor; m. Jean Edge 1929; two s.; ed. Univ. of Texas; joined Dallas Power & Light Co. 1929, Man., Pres. 1941-53, Chair. of Bd. 1944-53, Dir. 1939-68; Vice-Pres. and Dir. Texas Utilities Co. 1945-53, Pres. and Dir. 1953-67, Chair. 1967-72; Dir. Children's Hosp. of Tex.; fmr. Dir. State Fair of Tex.; mem. Advisory Cttee. Edison Electric Inst.; Trustee Tex. Research Foundation, Hoblitzelle Foundation; Pres. and Trustee Southwestern Medical Foundation; Distinguished Eng. Graduate Award, Univ. of Tex. *Address:* 6322 Westchester Drive, Dallas, Tex. 75205, U.S.A.

McGREGOR, Baron (Life Peer), cr. 1978, of Durris; **Oliver Ross McGregor,** M.A., B.SC.(ECON.); British sociologist and social historian; b. 25 Aug. 1921, Durris, Scotland; s. of late William McGregor and Anne Olivia Ross; m. Nellie Weate 1944; three s.; ed. Worksop Coll., Univ. of Aberdeen, London School of Econs.; Simon Sr. Research Fellow, Univ. of Manchester 1959-60; Prof. of Social Insts., Univ. of London 1964-, Head of Dept. of Sociology, Bedford Coll. 1964-77; Jt. Dir. Rowntree Legal Research Unit 1966-; Dir. of Centre for Socio-Legal Sutides, Univ. of Oxford 1972-75; Fellow, Wolfson Coll., Oxford 1972-75; mem. Cttee. on the Enforcement of Judgment Debts 1965-69, Cttee. on Statutory Maintenance Limits 1966-68, Cttee. on Land Use 1967, Independent TV Authority's Gen. Advisory Council 1967-72, Countryside Comm. 1968-, Lord Chancellor's Advisory Cttee. on Legal Aid 1969-78, Cttee. on One-Parent Families 1969-74; mem. Royal Comm. on the Press 1974, Chair. 1975-77; Hon. Fellow, L.S.E. 1977. *Publications:* Divorce in England 1957, Editor Lord Ernle, English Farming Past and Present (6th edn.) 1960, Separated Spouses 1970. *Leisure interest:* book collecting. *Address:* House of Lords, London, S.W.1; and Bedford College, Regent's Park, London, NW1 4NS (Office); Far End, Wyldes Close, London, NW11 7JB, England (Home). *Telephone:* 01-486 4400 (College); 01-458 2856 (Home).

McGUIGAN, Hon. Thomas Malcolm; New Zealand parliamentarian and business consultant; b. 20 Feb. 1921, Christchurch; m. Ruth Deacon 1946; two s. one d.; ed. Christchurch Boys' High School, Christchurch Tech. Evening School; served in Navy 1941-45; secretarial and accountancy posts in commerce 1946-54; House Man. Christchurch Hosp. 1955-57; Sr. Admin. Officer, Princess Margaret Hosp., Christchurch 1958-69; M.P. 1969-75; Minister of Railways, Electricity and Civil Defence 1972-74, of Health and Public Trust Office 1974-75; J.P. 1953-; Pres. New Zealand Football Assen. 1974-75. *Leisure interests:* golf, cricket, fishing, football, reading, music. *Address:* 71 Main Road, Christchurch 8, New Zealand.

McGUIRE, Dominic Paul, C.B.E.; Australian diplomatist and writer; b. 3 April 1903, Peterborough, S. Australia; s. of James and Mary McGuire; m. Frances M. Cheadle 1927; ed. Christian Brothers' Coll., Adelaide, and Univ. of Adelaide; fmr. Lecturer in History, Univ. of Adelaide, served Royal Australian Navy 1939-45; Adviser,

Commonwealth Prime Ministers' Conf., London 1951; Del. to UN 1953; Minister to Italy 1953-58, Amb. 1958-59; Kt., Grand Cross of St. Sylvester 1959, Commendatore of Order of Merit, Italian Repub. 1967. *Publications:* The Two Men 1932, The Poetry of Gerard Manley Hopkins 1935, 7.30 Victoria 1935, Prologue to the Gallows 1935, Cry Aloud for Murder 1936, Born to be Hanged 1936, Burial Service 1937, W.1. 1937, Restoring All Things (with J. Fitzsimmons) 1938, Australian Journey 1939, Spanish Steps 1940, Westward the Course 1942, Price of Admiralty (with F. M. McGuire) 1945, The Three Corners of the World 1948, Experiment in World Order 1948, The Australian Theatre (with B. P. Arnott and F. M. McGuire) 1948, Freedom for the Brave 1949, Inns of Australia 1952, etc. *Leisure interest:* living at large e.g. bushranging. *Address:* 136 Mills Terrace, North Adelaide 5006, South Australia. *Telephone:* 267-2214.

MACH, Stanisław, M.ECON., C.SC.; Polish politician; b. 22 April 1938, Przychody, [redacted] Olkusz; Chief Mechanic, Cart Factory, Sianów 1960-61, Voivodship Amalgamation of Establishments for Mechanization of Agric., Koszalin 1961-63; Branch Sec. Main Tech. Org. (NOT), Koszalin 1968-71; mem. Polish United Workers' Party (PZPR) 1961-; First Sec. PZPR District Cttee., Kołobrzeg 1971-72; Chair. Presidium, Voivodship Nat. Council (WRN), Koszalin 1972-73, Voivode, Koszalin 1973-75; First Sec. PZPR Voivodship Cttee., Koszalin 1975-77; Deputy mem. PZPR Cen. Cttee. 1975-; Deputy to Seym (Parl.) 1976-; Minister of Light Industry Dec. 1977-; decorations include Chevalier's Cross of Order Polonia Restituta. *Address:* Ministerstwo Przemysłu Lekkiego, ul. Hoża 29, 00-521 Warsaw, Poland.

MACHADO, Paulo de Almeida; Brazilian medical doctor; b. Minas Gerais; active in planning public health and sanitary services; Dir. Nat. Inst. for Research in the Amazon Region until 1974; Minister of Health 1974-78. *Address:* c/o Ministério da Saúde, Esplanada dos Ministérios, Bloco 11, Brasília, D.F. Brazil.

MACHEL, Samora Moïsés; Mozambique nationalist leader and politician; b. Oct. 1933, Lourenço Marques (now Maputo); m. Grace Simbine 1975; trained [redacted] male nurse; sent to Algeria for mil. training 1963; organized training camp programme in Tanzania; C.-in-C. army of Frente de Libertação de Moçambique (FRELIMO) in guerrilla war against the Portuguese 1966-74; Sec. of Defence, FRELIMO 1966-74, Pres. May 1970-; Pres. of Mozambique June 1975-; Joliot-Curie Gold Medal 1977, Lenin Peace Prize 1977, Order of Suhbuator (Mongolia) 1978. *Address:* Ofício do Presidente, Maputo, Mozambique.

MACHIMURA, Kungo; Japanese politician; b. 16 Aug. 1900, Sapporo City; ed. Tokyo Univ.; entered Ministry of Home Affairs; Gov. Toyama and Niigata Prefs.; Dir. Police Bureau, Ministry of Home Affairs; Supt.-Gen. Metropolitan Police Bureau 1945; mem. House of Reps.; affiliated to conservative group of fmr. Kaishinto (Progressive) Party, left when KP reformed to become Dem. Party, later helped to form Shinto Doshikai Party; Minister of Home Affairs 1973-74; Independent. *Address:* 28-18, Higashi-ga-oka, 1-chome, Meguro-ku, Tokyo, Japan.

MACHIN ACOSTA, José Maria; Venezuelan diplomatist; b. 16 May 1924, Carúpana; ed. Cen. Univ. of Venezuela, Free Univ., Bogotá, Univ. of Paris; Head, Div. of Int. Orgs. and Confs., Div. of Int. Politics, Ministry of Foreign Affairs; Deputy to Nat. Congress 1961-73; Amb. to Chile 1964-68; Perm. Rep. to OAS 1974-; founding mem. Dem. Action Party; Editor Vea y Lea. *Address:* Venezuelan Permanent Mission to Organization of American States, 4201 Connecticut Avenue, N.W., Suite 609, Washington, D.C. 20008, U.S.A.

MACÍAS NGUEMA, Francisco; Equatorial Guinean politician; b. 1 Jan. 1924, Msegayong, Río Muni; ed. Catholic Schools in Río Muni; coffee planter 1944; entered Colonial Admin. 1944; entered politics 1963; Vice-Pres. Admin. Council 1964-68; Pres. of the Repub. (Life-Pres. 1972) and Minister of Defence 1968-, of Foreign Affairs 1969-78, of Nat. Security, and of Popular Construction and Transport 1978-; Maj.-Gen. of Armed Forces; mem. Popular Idea of Equatorial Guinea (IPGE) Party 1963-70, United Nat. Workers' Party (Pres.) 1970-. *Address:* Oficina del Presidente, Malabo, Macías Nguema Biyogo, Equatorial Guinea.

McILRAITH, Rt. Hon. George James, P.C., Q.C., M.P.; Canadian lawyer and politician; b. 29 July 1908, Lanark, Ont.; s. of James McIlraith and Kate McLeod; m. Margaret Summers 1935; one s. three d.; ed. Osgoode Hall, Toronto; mem. House of Commons 1940-72; Parl. Asst. to Minister of Reconstruction 1945, to Minister of Trade and Commerce 1948, to Minister of Defence Production 1951; Canadian rep. to UN 1946; Minister of Transport 1963-64; Pres. of Privy Council and Pres. of Treasury Bd. 1964; Govt. House Leader 1964-67; Minister of Public Works 1965-68; Solicitor-Gen. of Canada 1963-70; Senator 1972-; Liberal. *Leisure interests:* golf, fishing. *Address:* Room 581-F, Parliament Buildings, Ottawa (Office); 20 Driveway, Ottawa, Ontario K2P 1C8, Canada (Home). *Telephone:* 992-2044.

McILVAINE, Robinson, A.B.; American diplomatist; b. 17 July 1913, Downington, Pa.; s. of Gilbert and Elizabeth Malbone (née Breese) McIlvaine; m. 1st Jane W. Stevenson 1939 (divorced 1956), one s. one d. (deceased); m. 2nd Alice W. Nicolson 1961, one s. one d.; ed. Harvard Univ.; Commdr. U.S. Navy 1940-46; Editor-Publr., Downington Archive 1946-58; Chair. U.S. section Caribbean Comm. 1953-56; Deputy Asst. Sec. of State 1954-56; Counsellor, American Embassy, Lisbon 1956-59; Consul-Gen. Léopoldville 1960-61; Amb. to Dahomey 1961-64; Dir. Nat. Interdept. Seminar, Washington 1964-66; Amb. to Repub. of Guinea 1966-69, to Kenya 1969-73; Dir. African Wildlife Leadership Foundation 1973-. *Address:* African Wildlife Leadership Foundation, 1717 Massachusetts Avenue, N.W., Washington, D.C. 20036 (Office); 2266 48th Street, N.W. Washington, D.C. 20007, U.S.A. (Home).

McILWAIN, Henry, D.SC., PH.D.; British university professor; b. 20 Dec. 1912, Newcastle-on-Tyne; s. of John McIlwain and Louisa Widdowson; m. 1st Valerie Durston 1940 (deceased 1977); m. 2nd Marjorie Crennell 1979; two d.; ed. King's Coll., Durham Univ. and Queen's Coll., Oxford; with British Medical Research Council 1937-47; Sr. Lecturer and Reader in Biochem., London Univ. 1948-55, Prof. Inst. of Psychiatry 1955-; Dr. h.c. (Univ. d'Aix-Marseilles) 1974. *Publications:* Biochemistry and the Central Nervous System 1955, 4th edn. (with H. S. Bachelard) 1971, Chemotherapy and the Central Nervous System 1957, Practical Neurochemistry (with R. Rodnight) 1962, Chemical Exploration of the Brain 1963. *Leisure interests:* contemporary arts, travel. *Address:* 73 Court Lane, London, SE21 7EF, England. *Telephone:* 01-693 5334.

MacINNES, Helen; American (naturalized 1951) novelist; b. 7 Oct. 1907, Glasgow, Scotland; m. Gilbert Highet (*q.v.*) 1932; one s.; went to United States 1937; Wallace Award, American-Scottish Foundation 1973. *Publications:* Above Suspicion 1941, Assignment in Brittany 1942, While Still We Live 1944, Horizon 1946, Friends and Lovers 1947, Rest and Be Thankful 1949, Neither Five Nor Three 1951, I and My True Love 1953, Pray for a Brave Heart 1955, North from Rome 1958, Decision at Delphi 1960, Assignment: Suspense 1961, The Venetian Affair 1963, Home is the Hunter 1964, The Double Image 1966, The Salzburg Connection 1968, Message from Malaga 1971, The Snare of the Hunter 1974, Agent in Place 1976, Prelude to Terror 1978. *Leisure interests:* two piano duets, interior decoration, golf, gardening, travel, current events. *Address:* 15 Jefferys Lane, East Hampton, N.Y. 11937, U.S.A.

MACINTOSH, Sir Robert Reynolds, M.D., F.R.C.S., F.F.A.R.C.S., F.R.C.O.G., D.A.; British anaesthetist; b. 17 Oct. 1897; ed. New Zealand and Guy's Hospital; Prof. of Anaesthetics Oxford Univ. 1937-65; hon. consultant in Anaesthetics, R.A.F.; Hon. Fellow Pembroke Coll., Oxford, Royal Soc. of Medicine; Hon. D.Sc. (Univ. of Wales; Medical Coll., Ohio), Hon. M.D. (Buenos Aires, Aix-Marseilles and Poznań); Order of Mil. Merit (Spain), Order of Liberty (Norway). *Publications:* Essentials of General Anæsthesia, Physics for the Anæsthetist, Local Anæsthesia, Brachial Plexus, Lumbar Puncture and Spinal Analgesia. *Address:* 326 Woodstock Road, Oxford, England. *Telephone:* Oxford 55471.

McINTOSH, Sir Ronald Robert Duncan, K.C.B., M.A.; British public servant; b. 26 Sept. 1919, Whitehaven; s. of late Dr. T. S. McIntosh, F.R.C.P.; m. Doreen MacGinnity 1951; ed. Charterhouse, Balliol Coll., Oxford; joined Bd. of Trade 1947; Counsellor, British High Comm., New Delhi 1957-61; Deputy Sec. Dept. of Econ. Affairs 1966-68, Cabinet Office 1968-70, Dept. of Employment 1970-72, Treasury 1972-73; Dir.-Gen. Nat. Econ. Devt. Office 1973-77; Exec. Dir. S. G. Warburg and Co. 1978-; Dir. Fisons Ltd., London and Manchester Assurance, Foseco Minsep Ltd. 1978-; Gov., Nat. Inst. of Econ. and Social Research; mem. Governing Body, Policy Studies Inst., St. George's House, Windsor, Centre for European Agric. Studies; Fellow, British Inst. of Man.; Hon. D.Sc. (Aston). *Leisure interest:* sailing. *Address:* 30 Gresham Street, London, E.C.2, England. *Telephone:* 01-600 4555.

McINTYRE, Donald Conroy, O.B.E.; British bass opera singer; b. 22 Oct. 1934, Auckland, N.Z.; s. of George D. and Hermyn McIntyre; m. Jill Redington 1961; three d.; ed. Mt. Albert Grammar School, Auckland, Auckland Teachers' Training Coll. and Guildhall School of Music, London; Principal Bass, Sadler's Wells Opera 1960-67; with Royal Opera House, Covent Garden 1967-; annual appearances at Bayreuth Festival 1967-79; frequent int. guest appearances: roles include: Wotan (Der Ring), Dutchman (Der Fliegende Holländer), Telramund (Lohengrin), Barak (Die Frau ohne Schatten), Pizzaro (Fidelio), Golaud (Pelléas et Mélisande),

Kurwenal (Tristan and Isolde), Jochanaan (Salome), Macbeth, Scarpia (Tosca), the Count (Marriage of Figaro). *Leisure interests:* sport (particularly golf, tennis and swimming), gardening, languages. *Address:* c/o Ingpen & Williams, 14 Kensington Court, London, W.8 (Office); 2 Roseneath Close, Chelsfield Hill, Orpington, Kent, England (Home). *Telephone:* Farnborough 55368.

MacINTYRE, Duncan, D.S.O., O.B.E., E.D.; New Zealand farmer and politician; b. 1915, Hastings; s. of A. MacIntyre; m. Diana Hunter; ed. Larchfield School, Scotland, Christ's Coll., Christchurch; farming 1933-39, 1947-; served Second World War in Middle East, Italy and Japan; mem. N.Z. Cavalry Regt. 1939-45; after war commanded 1st Battalion Hawke's Bay Regt.; the N.Z. Scottish Regt., 2nd Infantry Brigade and 4th Armoured Brigade in Territorial Army 1949-60; Territorial mem. of N.Z. Army Bd. 1960-; M.P. for Hastings 1960-72, for Bay of Plenty 1975-; Minister of Lands, Minister of Forests, Minister in Charge of the Valuation Dept. 1966-72, of Maori and Island Affairs 1969-72, of the Environment Feb.-Dec. 1972, of Agric. and Fisheries, of Maori Affairs, in Charge of the Rural Banking and Finance Corpn. Dec. 1975-; Nat. Party. *Address:* Parliament Buildings, Wellington, New Zealand.

McINTYRE, James T., Jr., J.D.; American lawyer and administrator; b. 17 Dec. 1940, Vidalia, Ga.; m. Maureen Ball; three d.; ed. Univ. of Georgia; employed by Univ. of Georgia's Inst. of Gov. 1964; practised law, Athens, Ga. 1964; Gen. Counsel to Ga. Municipal Assn. 1966-70; Deputy State Revenue Commr. 1970-72; Dir. Georgia Office of Planning and Budget 1972-77; Deputy Dir. Office of Man. and Budget, Exec. Office of Pres. of U.S.A. Feb.-Dec. 1977, Dir. 1977-; Legal counsel Ga. Reorganization and Man. Improvement Study 1971; Project Dir. State and Local Gov. Co-ordination Study 1972; mem. State Bar of Ga. *Address:* Office of Management and Budget, Executive Office Building, Washington, D.C. 20503 (Office); Alpharetta, Ga., U.S.A. (Home).

McINTYRE, Sir Laurence Rupert, Kt., A.C., C.B.E., M.A.; Australian former diplomatist; b. 22 June 1912, Hobart, Tasmania; s. of Laurence and Hilda McIntyre; m. Judith Gould 1938; two s.; ed. Tasmania Univ. and Exeter Coll., Oxford; served in London 1936, Canberra 1940, Washington 1942, Canberra (Head of Pacific Div.) 1947, Singapore 1950, Canberra (Asst. Sec.) 1951, Singapore (Commr.) 1952, London (Minister) 1954; Amb. to Indonesia 1957-60, to Japan 1960-65; Deputy Sec. Dept. of External Affairs 1965-70; Perm. Rep. to UN 1970-75; Chair. Uranium Advisory Council; Dir., Australian Inst. of Int. Affairs 1976-. *Address:* 44 Dominion Circuit, Forrest, Canberra, A.C.T. 2603, Australia.

MacINTYRE, Malcolm Ames; American executive; b. 28 Jan. 1909, Boston; s. of Charles H. MacIntyre and Martha Alden; m. Clara Bishop 1933; one s. two d.; ed. Yale Univ. and Oxford Univ.; admitted U.S. Bar 1934; with Sullivan and Cromwell 1934-42, Douglas, Proctor, MacIntyre and Gates 1946-48, Debevoise, Plimpton, Lyons and Gates 1948-57; U.S. Air Force 1942-46; Under-Sec., U.S.A.F. 1957-59; Pres. Eastern Airlines Inc. 1959-63; Pres. Chemical Div. Martin Marietta Corpn. 1964-72; Chair. Bunker-Ramo Corpn. 1969-71; Dir. J. Henry Schroder Bank and Trust Co., Paul Revere Investors Inc., 20th Century Fox Film Corpn.; Counsel Messrs. Hale, Russell, Gray, Seaman and Birkett, New York; Trustee, Village of Scarsdale 1965-66, Mayor, Village of Scarsdale, N.Y. 1966-69. *Publications:* Competitive Private Enterprise Under Government Regulation; articles in numerous journals. *Leisure interests:* golf, tennis, swimming, painting. *Address:* 122 East 42nd Street, New York, N.Y. 10017 (Office); 60 Mamaroneck Road, Scarsdale, N.Y. 10583, U.S.A. (Home).

McINTYRE, Thomas James, B.A., LL.B.; American lawyer and politician; b. 20 Feb. 1915, Laconia, N.H.; m. Myrtle Ann Clement; one d.; ed. Dartmouth Coll. and Boston Univ. Law School; Army Service, Second World War; Mayor of Laconia, N.H. 1949-51; City Solicitor 1953; cand. for Congress 1954; N.H. State Chair., Sen. Kefauver's campaign for Dem. Pres. nomination 1956; Senator from New Hampshire 1963-79; Democrat. *Address:* 2923 Garfield Street, N.W. Washington, D.C. 20008, U.S.A. (Home).

MacIVER, Loren; American artist; b. 2 Feb. 1909; m. Lloyd Frankenburg 1929; ed. Art Students League; One Man exhbns., East River Gallery, New York 1938, Pierre Matisse Gallery, New York 1940-44, 1949, 1956, 1961, 1966, 1970, Museum of Modern Art Travelling Exhbn. 1941, Vassar Art Gallery 1950, Wellesley Coll. 1951, Whitney Museum 1953, Dallas Museum of Fine Arts 1953, Beaux Arts Museum, Lyons 1968, Musée Nat. d'Art Moderne, Paris 1968, Musée des Ponchettes, Nice 1968, etc.; rep. in numerous exhbns. including Fantastic Art, Dada, Surrealism 1938, Art in Our Time 1939, State Dept. Exhbn. in Europe 1946, Dunn Int. Exhbn., Tate Gallery, London 1963, Venice Biennale 1961; First Prize, Corcoran Art Gallery 1957; Chicago Art Inst. 1961, Univ. of Ill. 1962; Ford Foundation Grant 1960; Nat. Inst. of Arts and Letters; Purchase Prize, Krannert Art Museum, Univ. of Ill. 1963; Mark Rothko Foundation Award 1972, Guggenheim Fellowship 1976. *Address:* c/o Pierre Matisse Gallery, 41 East 57th Street, New York, N.Y. 10022, U.S.A.

MACKASEY, Bryce S.; Canadian politician; b. Aug. 1921, Quebec City; m. Margaret Cecilia O'Malley; two s. two d.; ed. McGill and Sir George Williams Univ., Montreal; M.P. 1962-; Parl. Sec. to Minister of Nat. Health and Welfare 1965, to Minister of Labour 1966-68; Cabinet Minister without Portfolio Feb.-July 1968; Minister of Labour 1968-72, of Manpower and Immigration Jan.-Nov. 1972; Minister of State June-Aug. 1974; Postmaster-Gen. 1974-76; Del. to UN 1963, Repub. of China 1965, Poland 1966; mem. Quebec Nat. Ass. 1976-; Liberal. *Address:* Room 244A, National Assembly, Quebec, P.Q. G1A 1E (Office); 1125 Moffat Avenue, Verdun, Quebec, Canada (Home).

MACKAY, Ian Keith, C.M.G.; New Zealand broadcasting executive; b. 19 Oct. 1909, Nelson; s. of David and Margaret Mackay; m. Lilian Adele 1961; one s. one d.; ed. Nelson Coll., New Zealand; Broadcasting Station Man., N.Z. 1939-43; Sr. Exec., Commercial Div., N.Z. Broadcasting Comm. 1944-50; Production Man., Macquarie Network, Australia 1950-61; Dir.-Gen. Nigerian Broadcasting Corpn. 1961-64, Adviser, Bd. of Govs. 1964-65; Public Relations Officer, Dept. of Information, Papua New Guinea 1966-67, Broadcasts Supervisor (Man.) 1968-69; Seconded special admin. duties, creation of Nat. Broadcasting Comm. 1969-72; Asst. to Chair. Papua New Guinea Broadcasting Comm. 1973-75, Consultant 1975-; mem. Royal Soc. of Literature, Soc. of Authors. *Publications:* Broadcasting in New Zealand 1953, Broadcasting in Australia 1957, Macquarie—the Story of a Network 1960, Broadcasting in Nigeria 1964, Presenting Papua and New Guinea (compiler) 1967, Directory of Papua and New Guinea (compiler), Broadcasting in Papua New Guinea 1976, and other articles on broadcasting. *Leisure interests:* reading, gardening, conchology. *Address:* 405A Main Road, Karori, Wellington, New Zealand.

McKAY, Robert B., B.S., J.D.; American teacher of law; b. 11 Aug. 1919, Wichita, Kan.; s. of John B. and Ruth G. McKay; m. Kate Warmack 1954; two d.; ed. Univ. of Kansas and Yale Univ.; Asst. and Assoc. Prof. of Law, Emory Univ. 1950-53; Assoc. Prof. now Prof. of Law, New York Univ. 1953-, Dean, School of Law 1967-75; Dir. Justice Program, Aspen Inst. 1975-. *Publication:* Reapportionment 1965. *Leisure interest:* civic affairs. *Address:* 36 West 44th Street, New York, N.Y. 10036 (Office); 29 Washington Square West, New York, N.Y. 10011, U.S.A. (Home). *Telephone:* 730-0168 (Office); 475-3076 (Home).

McKEE, James W., Jr., B.COMM; American businessman; b. 19 Aug. 1922, Pittsburgh, Pa.; s. of James W. McKee and Mary Isabel Welch; m. Jayne A. Finnegan 1947; one s. two d.; ed. McGill Univ.; Cost Accountant, CPC Italian affiliate 1947-50; Financial Man. CPC Brazilian affiliate 1950-58; Pres. CPC Cuban affiliate 1958-59; Man. CPC Brazilian affiliate 1959-64; Exec. Asst. CPC Int. 1964; Comptroller, CPC Int. 1964-65, Vice-Pres. (Finance) 1965-69, Dir. 1968, Pres. and Chief Admin. Officer 1969-, Chief Exec. Officer 1972-; Dir. Fidelity Union Bancorpn. 1969, Marine Midland Banks, Inc., Grocery Mfrs. of America, Singer Co.; Trustee U.S. Council of Int. Chamber of Commerce, Council of the Americas, Cttee. for Econ. Devt.; Bd. Fellows Fairleigh Dickinson Univ.; mem. Advisory Council Johns Hopkins Univ. School of Advanced Int. Studies, Center of Brazilian Studies; Cruzeiro do Sol (Brazil). *Leisure interests:* golf, reading. *Address:* CPC International Inc., International Plaza, Englewood Cliffs, N.J. 07632, U.S.A. *Telephone:* 201-894-2135.

McKEE, John Angus; Canadian business executive; b. 31 Aug. 1935, Toronto, Ont.; s. of John W. McKee and Margaret E. Phippen; m. Susan E. Harley; one d.; ed. Trinity Coll. School, Port Hope, Ont. and Univ. of Toronto; joined the Patiño Mining Corpn. 1962, Asst. to Pres. 1963, Vice-Pres. (Corporate Devt.) 1966; Man. Dir. Consolidated Tin Smelters Ltd. 1968-71; Pres. J. A. McKee and Assoc. Ltd. 1972-75; Dir. Canadian Occidental Petroleum Ltd., Stone and Webster Canada Ltd., Flag Machinery Ltd., Tara Industries Ltd., Teradyne Canada Ltd., CVI Ltd. and others. *Leisure interests:* skiing, shooting. *Address:* Suite 803, 94 Cumberland Street, Toronto M5R 1A3 (Office); 9 Dunloe Road, Toronto M5H 2W4, Canada (Home). *Telephone:* 416-967-6767. (Office).

MacKELLAR, Michael John Randal, B.SC., M.A.; Australian politician; b. 27 Oct. 1938; s. of Geoffrey Neil and Colleen Randal MacKellar; m. Robin Morey Smith 1969; ed. Sydney Church of England Grammar School, Sydney Univ., Balliol Coll., Oxford Univ.; New South Wales Dept. of Agric. 1961-69; mem. for War-

ringah, N.S.W., House of Reps. 1969-; mem. Council of Australian Nat. Univ. 1970-75; mem. House of Reps. Select Cttee. on Foreign Affairs 1971-72, Jt. Parl. Cttee. on Foreign Affairs and Defence 1972-74, Jt. Standing Cttee. on Public Accounts 1972-74; [illegible] first Australian Parl. del. to People's Repub. of China 1973; Parl. Sec. to Leader of Opposition 1973-74; Shadow Minister for Immigration 1974-75; Minister for Immigration and Ethnic Affairs Dec. 1975-; Minister Assisting the Treas. 1978-; leader of del. to UN Habitat Conf. 1976; mem. N.S.W. Advisory Cttee. for Australian Broadcasting Comm. 1973-75; mem. Council, Royal Blind Soc., N.S.W. 1970-; Liberal Party. *Leisure interests:* tennis, cricket, golf, reading, photography. *Address:* Parliament House, Canberra, A.C.T. 2600 (Office); 1 Lewis Street, Balgowlah Heights, N.S.W. 2093, Australia. (Home).

McKELLEN, Ian Murray, B.A.; British actor; b. 25 May 1939, Burnley, Lancs.; s. of Dennis Murray and Margery (Sutcliffe) McKellen; ed. Bolton School, St. Catharine's Coll., Cambridge; First stage appearance as Roper (A Man for All Seasons), Belgrade Theatre, Coventry 1961; numerous other parts include title-roles in Henry V, Luther, Ipswich 1962-63; Aufidius (Coriolanus), Arthur Seaton (Saturday Night and Sunday Morning), title-role in Sir Thomas More, Nottingham Playhouse 1963-64; London début [illegible] Godfrey (A Scent of Flowers), Duke of York's Theatre 1964; Claudio (Much Ado About Nothing), Protestant Evangelist (Last Goodnight), Capt. de Foenix (Trelawny of the Wells), Nat. Theatre Co. 1965; Alvin (A Lily in Little India), Hampstead and St. Martin's 1965-66; Andrew Cobham (Their Very Own and Golden City), Royal Court 1966; title-part in O'Flaherty, V.C. and Bonaparte (The Man of Destiny), Mermaid 1966; Leonidik (The Promise), Oxford Playhouse, Fortune, and Henry Miller (Broadway début) 1966-67; Tom (The White Liars), Harold Gorringe (Black Comedy), Lyric 1968; Richard II (Edinburgh Festival 1969), Edward II, Hamlet, Prospect Theatre Co. 1968-71; Darkly (Billy's Last Stand), Theatre Upstairs 1970; Capt. Plume (The Recruiting Officer), Corporal Hill (Chips With Everything), Cambridge Theatre Co. 1970; Svetlovidov (Swan Song), Crucible, Sheffield 1971; founder-mem. Actors' Co., Edinburgh Festival 1972 and touring as Giovanni ('Tis Pity She's A Whore), Page-Boy (Ruling the Roost), Prince Yoremitsu (The Three Arrows), title-role in Michael, the Wood Demon, Footman (The Way of The World), then Knots, Shaw Theatre, Edgar (King Lear), Brooklyn Acad., and Giovanni, Wimbledon 1973-74; début with R.S.C. [illegible] Dr. Faustus (Edinburgh Festival) 1974; title-role in The Marquis of Keith, Philip the Bastard (King John), Macbeth, Leontes (A Winter's Tale), Face (The Alchemist), Bernick (Pillars of the Community), Aldwych 1974-75; Aubrey Bagot (Too True to Be Good), also at Globe, Romeo, Macbeth, Leontes (A Winter's Tale) Stratford [illegible] 1976; Colin (Ashes), Young Vic 1975; Langevin (Days of the Commune) 1976-78; Max (Bent) Royal Court 1979; directed first production The Prime of Miss Jean Brodie, Liverpool Playhouse 1969, The Erpingham Camp, Palace, Watford 1972, A Private Matter, Vaudeville 1973, The Clandestine Marriage, Savoy 1975; *films include:* Alfred the Great 1969, The Promise 1969, A Touch of Love 1969; *TV appearances include:* David Copperfield 1965, Ross 1969, Richard II, Edward II, and Hamlet 1970, Hedda Gabler 1974, Macbeth, Every Good Boy Deserves Favour, Dying Day 1979; Clarence Derwent Award 1964; Variety and Plays and Players awards 1966; Actor of the Year (Plays and Players) 1976; Soc. of W. End Theatres Award for Best Actor in Revival 1977, for Best Comedy Performance 1978; council mem. British Actors' Equity 1970-71. *Address:* c/o Fraser and Dunlop, 91 Regent Street, London, W.1, England. *Telephone:* 01-734 7311.

McKENNA, Siobhán; Irish actress; b. 24 May 1923; d. of Owen McKenna and Margaret O'Reilly; m. Denis O'Dea; one s.; ed. St. Louis Convent, Monaghan and Galway Univ.; semi-professional appearances at An Taibhdhearc Theatre, Galway 1940-43; Abbey Theatre, Dublin 1944-47; first London appearance in The White Steed, Embassy 1947. *Plays include:* Fading Mansions, Duchess 1949, Ghosts, Embassy, Héloïse, Duke of York's, Stratford-on-Avon 1951, Playboy of the Western World, Edinburgh and Paris Festivals, Saint Joan, Arts 1954, St. Martin's 1955, The Chalk Garden, New York 1955, Saint Joan, New York 1956, The Rope Dancers, New York 1957; Shakespearean seasons at Stratford, Ontario, and Cambridge Drama Festival; Captain Brassbound's Conversion, Phila. 1961, St. Joan of the Stockyards, Dublin Festival 1961, London 1964, Play with [illegible] Tiger 1962, Laurette 1964, The Cavern (Anouilh) 1965, Juno and the Paycock 1966 (Toronto, London and Belfast 1973-74), Here are the Ladies, Britain, U.S.A. and Australia 1970-73, The Morgan Yard, Dublin Festival 1974, Memoir 1978. *Films include:* Hungry Hill, Daughter of Darkness, The Lost People, The Adventurers, King of Kings, Playboy of the Western World, Dr. Zhivago, Philadelphia Here I Come, Here Are the Ladies. *Address:* 23 Highfield Road, Rathgar, Dublin, Eire.

McKENZIE, Sir Alexander, K.B.E.; New Zealand businessman and politician; b. 26 Oct. 1896; ed. Southland Boys' High School; began career as farmer; served army 1914-18 war; with The Govt. Life Insurance, Invercargill; joined N.Z. Forest Products Ltd. 1922, which he helped establish in N.Z., Australia and U.K., Business Man. for N.Z. 1929; founded own business 1932; [illegible] Dir. of 7 Cos.; mem. Auckland Stock Exchange 1961-; [illegible] N.Z. Nat. Party, fmr. Chair. Auckland Div. of Party; Pres. N.Z. Nat. Party 1951-62. *Address:* 54 Wallace Street, Herne Bay, Auckland, New Zealand.

MacKENZIE, Chalmers Jack, C.C., C.M.G., M.C., B.E., M.C.E., D.ENG., D.SC., LL.D., D.C.L., F.R.S.C., F.R.S.; Canadian engineer; b. 10 July 1888, St. Stephen, N.B.; s. of James Mackenzie and Janet (Campbell) Mackenzie; m. 1st Claire Rees 1916, [illegible] s.; m. 2nd Geraldine Gallon 1924, two d.; ed. Dalhousie and Harvard Univs.; mem. eng. firm Maxwell & Mackenzie 1912-16; served with Canadian Expeditionary Force 1916-18; Prof. of Civil Eng. Saskatchewan Univ. 1918-39, Dean of Eng. 1921-39; Acting Pres. Nat. Research Council of Canada 1939-44, Pres. 1944-52; Pres. Atomic Energy of Canada Ltd. 1952-53, Pres. Atomic Energy Control 1948-61; Chancellor Carleton Univ., Ottawa 1954-69; consultant numerous eng. and scientific projects; many hon. degrees; U.S. Medal of Merit, Chevalier, Légion d'honneur, Kelvin Medal 1953, R. B. Bennett Empire Prize 1954, Royal Bank Award 1968. *Leisure interests:* golf, curling. *Address:* 210 Buena Vista Road, Rockliffe Park, Ottawa, Ont., Canada. *Telephone:* (613) 749-9943.

McKENZIE, Lyndon L.; Australian airline executive; b. Cowell, S. Australia; m.; two d.; ed. accountancy; served R.A.A.F., rose to rank of Flight Lieut. 1940-46; joined Trans-Australia Airlines (TAA) 1946; posts in finance, admin. and airport man. depts. 1946-55; Man. for Victoria, subsequently for Queensland 1955-57; Commercial Dir. 1957-71; Asst. Gen. Man. 1971-73, Acting Gen. Man. Oct. 1973, Gen. Man. Oct. 1973-. *Leisure interests:* tennis, music. *Address:* Trans-Australia Airlines, 50 Franklin Street, Melbourne 3000, Australia.

MACKENZIE, Maxwell Weir, O.C., C.M.G., LL.D., B.COM.; Canadian business executive; b. 30 June 1907, Victoria, B.C.; s. of Hugh Mackenzie and Maud Weir; m. Jean Fairbairn 1931; two s. two d.; ed. Trinity Coll. School, McGill Univ.; joined McDonald, Currie & Co., Chartered Accountants, Montreal, and admitted to Society of Chartered Accountants of Prov. of Quebec 1929; became partner in firm 1935; called to Foreign Exchange Control Bd. [illegible] transferred to Wartime Prices and Trade Bd. 1942, appted. Deputy Chair. of Bd. 1943; returned to McDonald, Currie & Co. 1944; apptd. mem. of Royal Comm. on Taxation of Annuities and Family Corpns. 1944; Deputy Minister of Trade and Commerce 1945-51; Deputy Minister of Defence Production 1951-52; Exec. Vice-Pres. Canadian Chemical & Cellulose Co. Ltd. 1952-54; Pres. Canadian Chemical & Cellulose Co. Ltd. 1954-59, Chemcell Ltd. 1959-63; Chair. Finance Cttee., Chemcell Ltd. and Columbia Cellulose Co. Ltd. 1967-68; Chair. Royal Comm. on Security 1966-68; Dir. The Canadian Imperial Bank of Commerce 1955-77, Celanese Corpn. of America 1959-67, The Royal Trust Co. 1960-67, Canron Ltd. 1961-78, Imperial Life Assurance Co. of Canada 1962-75, RCA Victor Co. Ltd. (name changed to RCA Ltd. 1968) 1963-76, Int. Multi-foods Corpn. 1964-77; mem. Econ. Council of Canada 1963-71; Pres. N.B. Multiplex Corpn. 1971-76; Pres. Montreal Jt. Hosp. Inst. 1971-73; Dir. C. D. Howe Research Inst. 1973-; Chair. Comm. of Inquiry into the Marketing of Beef and Veal Jan. 1975; Hon. LL.D. (McGill Univ.) 1973. *Leisure interests:* woodwork, gardening, skiing. *Address:* 383 Maple Lane, Rockcliffe Park, Ottawa, K1M 1H7, Canada. *Telephone:* 613-746-0253.

MacKENZIE, Norman Archibald MacRae, C.C., C.M.G., C.D., M.M. AND BAR, Q.C., B.A., LL.D., D.C.L., D.SC.SOC., D. LITT., F.R.S.C.; Canadian lawyer and public servant; b. 5 Jan. 1894, Pugwash, Nova Scotia; s. of Rev. J. A. MacKenzie and Elizabeth J. C. MacRae; m. Margaret R. Thomas 1928; one s. two d.; ed. Pictou Acad., Dalhousie Univ., Harvard, St. John's Coll., Cambridge and Gray's Inn; served with Canadian Infantry 1914-19; called to Bar N.S. 1926; Legal Adviser ILO Geneva 1925-27; Assoc. Prof. of Law Univ. of Toronto 1927-33, Prof. of Int. and Canadian Const. Law 1933-40; Pres. Univ. of New Brunswick 1940-44; Pres. Univ. of British Columbia 1944-62. Pres. Emer. 1962-; Chair. War-time Information Bd. Canada 1943-45, N.B. Reconstruction Comm. 1941-44, Conciliatory Bds. in Labour Disputes 1937-42; Trustee Carnegie Foundation for Advancement of Teaching 1951-, Chair. Bd. of Trustees 1958-59; Chair. Doukhobor Consultative Cttee. 1950-; [illegible] Canada Council 1957-63, Canadian Inst. Int. Affairs, American Soc. Int. Law, etc.; Pres. Canadian Nat. Comm. for UNESCO 1957-60; Dir. Bank of

Nova Scotia 1960-69; Pres. Canadian Centenary Council 1962-67; mem. Senate of Canada 1966-69; Hon. LL.D. (Mt. Allison, N.B., Toronto, Ottawa, Bristol, Alberta, Glasgow, Dalhousie and St. Francis Xavier, McGill, Sydney, Rochester, California, Alaska, British Columbia, Royal Mil. Coll. of Canada); Hon. D.C.L. (Whitman Coll., Saskatchewan Univ.); Hon. D.Sc.Soc. (Laval); Hon. D.Litt. (Memorial Univ. of Newfoundland); Hon. LL.D. (Cambridge); Hon. Fellow St. John's Coll. (Cambridge); John E. Read Medal, Canadian Council on Int. Law 1975. *Publications:* Legal Status of Aliens in Pacific Countries 1937, Canada and the Law of Nations (with L.H. Laing) 1938, Canada in World Affairs (with others) 1941, Challenge to Education 1953, First Principles 1954, A Canadian View of Territorial Seas and Fisheries (with Jacob Austin), The Work of the Unversities (in Canadian Education—Today) 1956. *Leisure interests:* hiking, flyfishing, reading. *Address:* 4509 West 4th Avenue, Vancouver 8, B.C. Canada. *Telephone:* 224-7800.

MACKENZIE STUART, The Hon. Lord (Alexander John), B.A., LL.B.; British judge; b. 18 Nov. 1924, Aberdeen; s. of Prof. A. Mackenzie Stuart, Q.C. and Amy Margaret Dean; m. Anne Burtholme Millar 1952; four d.; ed. Fettes Coll., Edinburgh, Cambridge and Edinburgh Univs.; Royal Engineers 1942-47; admitted to Faculty of Advocates 1951; Standing Jr. Counsel, Scottish Home Dept. 1956-57, Inland Revenue, Scotland 1957-63; Queen's Counsel 1963; Keeper of Advocates Library 1970-72; Sheriff-Principal of Aberdeen, Kincardine and Banff 1971-72; Senator, Coll. of Justice, Scotland 1972; Judge, Court of Justice of European Communities Jan. 1973-; Dr. h.c. (Stirling), Hon LL.D. (Exeter, Edinburgh). *Address:* Court of Justice of the European Communities, P.O. Box 1406, Luxembourg (Office); 24 [illegible] de Wormeldange, Rodenbourg, Grand Duchy of Luxembourg (Home). *Telephone:* 4303-229 (Office); 77276 (Home).

MACKERRAS, Sir Charles, Kt., C.B.E.; British conductor; b. 17 Nov. 1925, U.S.A. of Australian parentage; m. Judith Wilkins 1947; two d.; ed. Sydney Grammar School, N.S.W. Conservatoire, and Prague Acad. of Music; Principal Oboist Sydney Symphony Orchestra 1943-46; Conductor Sadler's Wells 1948-53, BBC Concert Orchestra 1954-56; guest conductor in Europe, Canada, Australia, S. Africa 1957-66, guest opera conductor at Covent Garden, Sadler's Wells, Berlin State Opera, Hamburg State Opera, etc. 1956-66; First Conductor, Hamburg State Opera 1966-70; Musical Dir., English Nat. Opera 1970-77; Chief guest conductor, BBC Symphony Orchestra 1977-; guest conductor with U.S. Symphony Orchestras, Boston, Chicago, Cincinnati, Dallas, Los Angeles, St. Louis, San Francisco Opera, Houston Opera, Metropolitan Opera, Paris Opéra, Cologne Opera, Deutsche Oper, W. Berlin; Knighted 1979; Evening Standard Award for Most Outstanding Achievement in Opera; Janáček Medal 1978. *Arrangements:* Ballets: Pineapple Poll 1951, Lady and the Fool 1954, Melbourne Cup 1965. *Publications:* musical articles in various magazines. *Address:* 10 Hamilton Terrace, London, N.W.8, England. *Telephone:* 01-286 4047.

MACKEY, George Whitelaw, PH.D.; American mathematician; b. 1 Feb. 1916, St. Louis, Mo.; s. of William Sturges Mackey and Dorothy Frances Allison; m. Alice Willard 1960; one d.; ed. Rice and Harvard Univs.: Instructor in Math., Ill. Inst. of Tech. 1942-43; Faculty Instructor in Math., Harvard Univ. 1943-46 (on leave for war work April 1944-Sept. 1945), Asst. Prof. of Math 1946-48, Assoc. Prof. 1948-56, Prof. 1956-69, Landon T. Clay Prof. of Math. and Theoretical Science 1969-; Walker Ames Visiting Prof., Univ. of Washington, Summer 1961; George Eastman Visiting Prof. at Oxford 1966-67; Visiting Prof. Tata Inst. of Fundamental Research, Bombay 1970-71; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences, American Philosophical Soc.; Guggenheim Fellow 1949-50, 1961-62, 1970-71. *Publications:* Mathematical Foundations of Quantum Mechanics 1963, Lectures on the Theory of Functions of a Complex Variable 1967, Induced Representations and Quantum Mechanics 1968, The Theory of Unitary Group Representations 1976, Unitary Group Representations in Physics, Probability and Number Theory articles in mathematical journals. *Leisure interests:* conversation, reading, music. *Address:* c/o Mathematics Department, Harvard University, Science Center, 1 Oxford Street, Cambridge, Mass. 02138, U.S.A. *Telephone:* 495-2147.

McKIE, Sir William Neil, Kt., M.V.O., M.A., D.MUS.; British musician; b. 22 May 1901, Melbourne, Australia; s. of Rev. William McKie; m. Phyllis Birks 1956; ed. Melbourne Grammar School, Royal Coll. of Music, London and Worcester Coll., Oxford; Dir. of Music Clifton Coll., Bristol 1926-30; City Organist Melbourne 1931-38; Organist, Magdalen Coll., Oxford 1938-41; Organist and Master of Choristers Westminster Abbey 1941-63; [illegible] service R.A.F. 1941-45; Dir. of Music, Coronation of Queen Elizabeth II 1953; Hon. Sec. Royal Coll. of Organists 1963-67; Hon. Fellow Worcester Coll., Oxford 1954-; Hon. D.Mus. (Melbourne); Commdr. with Star Order of St. Olav. *Address:* 10 Driveway, Apartment 1401, Ottawa, Ont. K2P 1C7, Canada. *Telephone:* 613-234-4059.

McKINLEY, John K., M.S.; American business executive; b. 24 March 1920, Tuscaloosa, Ala.; s. of Virgil P. McKinley and Mary E. Key; m. Helen Heare 1946; two s.; ed. Univ. of Alabama; joined Texaco as chemical engineer 1941; Asst. Dir. of Research, Texaco Research Lab., Beacon, N.Y. 1957; Asst. to Vice-Pres. 1959; Man. Commercial Devt. Processes, Research and Tech. Dept., Beacon 1960; Gen. Man. Petrochemical Dept., New York 1960-67; Vice-Pres. in charge of Petrochemical Operations and of Supply and Distribution 1967-71; Sr. Vice-Pres. for Worldwide Refining, Petrochemicals, and Supply and Distribution Jan. 1971-April 1971; Pres. Texaco Inc. April 1971-; Chair. Bd., Texaco Devt. Corpn.; Dir. Burlington Industries Inc., American Petroleum Inst., Mfg. Chemists' Assn.; [illegible] American Chem. Soc.; Fellow, American Inst. of Chemical Engineers; Andrew Wellington Cordier Fellow, Columbia Univ.; Hon. LL.D. (Alabama 1972, Troy State Univ. 1974); George Washington Honor Medal, Freedoms Foundation 1972. *Address:* Texaco Inc., 2000 Westchester Avenue, White Plains, N.Y. 10650, U.S.A. *Telephone:* 914-253-4000.

McKINNEY, James Russell; Canadian diplomatist; b. 28 June 1925, New Brunswick; m.; three c.; ed. Dalhousie Univ.; joined Dept. External Affairs 1949, posted Belgrade 1951-54; Chargé d'Affaires, Djakarta 1957, First Sec., Copenhagen 1959, Counsellor, Ottawa 1962-66; High Commr., Trinidad and Tobago and Barbados, Canadian Commr. to West Indies Assoc. States 1966-69; Amb. and Perm. Rep. to OECD 1969-72; Minister, Embassy, Washington 1972-77; Dir.-Gen. Bureau of U.S. Affairs, Dept. of External Affairs, Ottawa 1977-. *Address:* Ministry of External Affairs, Ottawa (Office); 762 Eastbourne Avenue, Ottawa K1K 0H7, Canada (Home).

McKINNEY, Robert Moody, B.A.; American newspaper publisher and diplomatist; b. 28 Aug. 1910, Shattuck, Okla.; s. of Edwin McKinney and Eva Moody; m. 1st Louise Trigg 1943, one d.; m. 2nd Marie-Louise de Montmollin 1970; ed. Univ. of Oklahoma; War Service, U.S. Navy 1942-45; Editor and Publr., The New Mexican; Pres. The New Mexican Inc.; Chair. Taos Publs. Corpn., New Mexico Econ. Devt. Comm. 1949-51; Asst. Sec. U.S. Dept. of Interior 1951-52; Chair. Panel to report to Congress on impact of Peaceful Uses of Atomic Energy 1955-56; Perm. U.S. Rep. to Int. Atomic Energy Agency, Vienna 1957-58; U.S. Rep. to 2nd Int. Conf. on Peaceful Uses of Atomic Energy 1958; rapporteur, Cttee. on Scientific and Tech. Co-operation, Atlantic Congress, London 1959; apptd. by Jt. Cttee. of U.S. Congress to review int. atomic policies and programmes of U.S.A. 1959-60; Amb. to Switzerland 1961-63; Exec. Officer, Presidential Task Force on Int. Investments 1963-64; Vice-Chair. Advisory Cttee. [illegible] Financial Investments 1966; U.S. Rep. Int. Centre for Settlement of Investment Disputes, Washington 1967-73; Chair. Presidential Industry-Gov. Special Task Force on Travel 1968; Pres. Robert Moody Foundation; mem. Foreign Policy Assn.; Chair. Bd. of Visitors and Governors, Oklahoma Univ.; Dir. Martin Marietta Corpn., Martin Marietta Aluminum Corpn., Trans World Airlines Inc.; Surveyor Fund Inc.; mem. American Soc. of Newspaper Editors, Council on Foreign Relations; Distinguished Service Citation 1965; Hon. LL.D. (New Mexico); Democrat. *Publications:* Hymn to Wreckage: A Picaresque Interpretation of History 1947, The Scientific Foundation for European Integration, Reappraising the European Energy Problem, On Increasing the Effectiveness of Western Science and Technology, all 1959, The Red Challenge to Technological Renewal 1960. *Leisure interests:* farming, skiing. *Address:* P.O. Box 1705, Santa Fe, N. M. 87501 (Office); Rt. 1, Box 64, Middleburg, Va. 22117, U.S.A. (Home).

McKINNON, Neil J.; Canadian banker; b. 17 Jan. 1911, Cobalt, Ont.; s. of Malcolm and Selina Frances McKinnon; m. Phyllis Adelaide Cowie 1941; one s. [illegible] d.; joined Canadian Bank of Commerce 1925, Asst. Gen. Man. 1945, Gen. Man. 1952, Vice-Pres. and Dir. 1954, Pres. 1956-61, Chair. of Bd. 1959-61; Pres. and Chief Exec. Officer Canadian Imperial Bank of Commerce 1961-63, Chair. and Chief Exec. Officer 1963-65, Chair. 1965-73; Dir. Canada Life Assurance Co., Brascan Ltd., Allied Chemical Canada Ltd., TransCanada Pipelines Ltd., Campbell Soup Co., Honeywell Inc., Continental Oil Co., Falconbridge Nickel Mines Ltd., Ford Motor Co. of Canada Ltd., MacMillan Bloedel Ltd. *Leisure interest:* golf. *Address:* 116 Dunvegan Road, Toronto, Ontario, Canada.

MacKINTOSH, Sir Angus MacKay, K.C.V.O., C.M.G.; British diplomatist (retd.); b. 23 July 1915, Inverness; s. of Angus MacKintosh, J.P.; m. Robina M. Cochrane 1947; one s. three d.; ed. Fettes Coll., Edinburgh, and Univ. Coll., Oxford; Agricultural Econs. Research Inst. Oxford 1938-41; Nuffield Colonial Research,

Oxford 1941-42; Army Service 1942-46; Principal, Colonial Office 1946-50; Principal Private Sec. to Sec. of State 1950-52; Asst. Sec. 1952; seconded to Foreign Office as Deputy Commr.-Gen. for U.K. in S.E. Asia 1956-60; seconded to Cabinet Office 1961-63; High Commr. for Brunei 1963-64; Asst. Sec., Ministry of Defence 1964-65; Asst. Under-Sec. of State 1965-66; Sr. Civilian Instructor, Imperial Defence Coll. 1966-68; Asst. Under-Sec. of State, Foreign Office 1968-69; High Commr. in Ceylon and Amb. to Rep. of Maldives 1969-73; D.K. (Brunei) 1963, N.S.A.I.V. (Maldives) 1972. *Address:* 9 Leven Terrace, Edinburgh, EH3 9LW, Scotland.

McKISSICK, Floyd Bixler, A.B., LL.B.; American lawyer; b. 9 March 1922; ed. North Carolina Coll.; Lawyer, Durham, N.C.; Nat. Chair. Congress of Racial Equality (CORE) 1963-66, Nat. Dir. 1966-68; Pres. Floyd B. McKissick Enterprises Inc. 1968-, The Soul City Co. 1974-; developer of new town, Soul City, N.C. 1969; Vice-Pres. Urban and Suburban Accus. 1962-. *Publications:* Three-fifths of a Man 1968. *Address:* P.O. Box 188, Soul City, Manson, N.C. 27553 (Office); 2 Liberation Road, Soul City, N.C. 27553, U.S.A. (Home).

McKNIGHT, Allan Douglas, C.B.E., LL.B.; Australian administrator; b. 14 Jan. 1918; ed. Fort Street High School and Univ. of Sydney; Asst. Sec. to Cabinet 1951-55; Sec. Dept. of Army 1955-58; Exec. Comm. Australian Atomic Energy Comm. 1958-64; Gov. for Australia, Bd. of Govs., Int. Atomic Energy Agency (IAEA) 1959-64, Chair IAEA Bd. of Govs. 1961; European Rep. of Australian Atomic Energy Comm. 1962-64; Inspector Gen., Int. Atomic Energy Agency, Vienna 1964-68; Visiting Fellow, Science Policy Research Unit, Univ. of Sussex 1968-; Lecturer U.K. Civil Service Coll. 1972–. *Publications:* Atomic Safeguards, IAEA and EURATOM in Nuclear Non-Proliferation, Scientists Abroad, numerous articles and research reports. *Address:* University of Sussex, Brighton, BN1 9QX, England. *Telephone:* Brighton 66755.

McKUEN, Rod; American author and composer; b. 29 April 1933, Oakland, Calif; has appeared in numerous films, concerts and on TV, composer of film scores and background music for TV shows; composer-lyricist of many songs; Pres. of numerous record and book cos.; mem. Bd. of Dirs. American Nat. Theatre of Ballet, Animal Concern; mem. Bd. of Govs. Nat. Acad. of Recording Arts and Sciences; mem. A.S.C.A.P., Writers Guild, A.F.T.R.A., M.P.A., NARAS; Grand Prix du Disque 1966, Golden Globe 1969, Motion Picture Daily Award 1969; Los Angeles Shrine Club Award 1975, Freedoms Foundation 1975, Horatio Alger Award 1976. *Works include:* Symphony Number One, Concerto for Guitar and Orchestra, Concerto for Four Harpsichords, Seascapes for Piano and Orchestra, Adagio for Harp and Strings, Piano Variations, Concerto Number Three for Piano and Orchestra 1972, The Plains of My Country (ballet) 1972, The City (orchestral suite) 1973, Ballad of Distances (orchestral suite) 1973, Bicentennial Ballet 1975, Symphony Number Three 1975; film scores: Joanna 1968, The Prime of Miss Jean Brodie 1969, Me, Natalie 1969, A Boy Named Charlie Brown 1970, Come to Your Senses 1971, Scandalous John 1971, Wildflowers 1971, The Borrowers 1973, Lisa Bright and Dark 1973, Awareness of Emily 1976. *Publications:* And Autumn Came 1954, Stanyan Street and Other Sorrows 1966, Listen to the Warm 1967, Twelve Years of Christmas 1968, In Someone's Shadow 1969, With Love 1970, Caught in the Quiet 1970, Fields of Wonder 1971, The Carols of Christmas 1971, And to Each Season 1972, Beyond the Boardwalk 1972, Come to Me in Silence 1973, America—An Affirmation 1974, Seasons in the Sun 1974, Alone, Moment to Moment 1974, The McKuen Omnibus 1975, Celebrations of the Heart 1975, My Country 200 1975, I'm Strong but I Like Roses, Sleep Warm, Beyond the Boardwalk 1976, The Sea Around Me . . . The Hills Above 1976; Finding My Father (biographical) 1977, Coming Close to Earth 1977. *Address:* 8440 Santa Monica Boulevard, Los Angeles, Calif. 90069, U.S.A.

MacLAINE, Shirley; American film acress, writer and film director; b. 24 April 1934, Richmond, Va.; d. of Ira Beaty and Kathlyn MacLean; m. Steve Parker; one d.; ed. grammar school and Lee High School, Washington; fmr. chorus girl and dancer; Star of the Year Award (Theater Owners of America) 1967; Best Actress Award for role in Desperate Characters, Berlin Film Festival 1971. *Films include:* The Trouble With Harry, Artists and Models, Around The World in 80 Days, Hot Spell, The Matchmaker, Can-Can, Career, The Apartment, Two For The Seesaw, The Children's Hour, Irma La Douce, What A Way To Go, The Yellow Rolls-Royce, Gambit, Woman Times Seven, The Bliss of Mrs. Blossom, Sweet Charity, Two Mules For Sister Sara, Desperate Characters, The Possessions of Joel Delaney, The Turning Point 1977; *revues:* If My Friends Could See Me Now 1974, To London With Love 1976; *Produced and co-directed* The Other Half of the Sky—A China Memoir 1973; *producer and star of* Amelia 1975. *Publications:* Don't Fall Off the Mountain 1971, The New Celebrity Cookbook 1973, You Can Get There From Here 1975 (Vols. 1 and 2 of autobiography). *Address:* c/o Chasin-Park-Citron Agency, Kirkeby Center, 10889 Wilshire Boulevard West, Los Angeles, Calif. 90024, U.S.A.

MacLANE, Saunders, PH.D.; American mathematician; b. 4 Aug. 1909, Norwich, Conn.; s. of Donald B. MacLane and Winifred A. Saunders; m. Dorothy M. Jones 1933; two d.; ed. Yale Coll., Univ. of Chicago, Göttingen Univ.; Benjamin Peirce Instructor in Math., Harvard Univ. 1934-36; Instructor Cornell Univ. 1936-37, Chicago Univ. 1937-38; Asst. Prof., Harvard Univ. 1938-41, Assoc. Prof. 1941-46, Prof. 1946-47; Prof. univ. of Chicago 1947-62, Max Mason Distinguished Service Prof. in Math., Univ. of Chicago 1963-; mem. Nat. Acad. of Sciences, Vice-Pres. 1973-77; Vice-Pres. American Philosophical Soc. 1968-71; mem. Nat. Science Bd. 1974-(80); Pres. American Math. Soc. 1973-74; Hon. Sc.D., Hon. LL.D. *Publications:* Survey of Modern Algebra (with G. Birkhoff) 1941, Homology 1963, Algebra (with G. Birkhoff) 1967, Categories for the Working Mathematician 1972. *Leisure interests:* sailing, skiing, photography. *Address:* Department of Mathematics, The University of Chicago, Chicago, Ill. 60637 (Office); 5712 South Dorchester Avenue, Chicago, Ill. 60637, U.S.A. (Home). *Telephone:* (312) 753-8073 (Office).

McLAREN, Norman; Canadian (b. Scotland) film director; b. 11 April 1914; ed. Glasgow School of Art; with G.P.O. Film Unit 1937-39; moved to New York 1939, later produced independently, and for Guggenheim Museum of Non-Objective Art, several abstract colour films; Dir. of Experimental Films, Nat. Film Bd. of Canada 1941-; assignment in China for UNESCO 1949-50, in India for UNESCO 1953-54; hon. doctorates (Montreal, Brock, McMaster Univs.); numerous awards including Royal Canadian Acad. of Arts Medal 1963, Canada Council Medal 1966, Molson Prize, Canada Council 1972, Order of Canada 1972. *Films include:* Love on the Wing, Dots, Loops, Fiddle-De-Dee, Poulette Grise, A Phantasy, Begone Dull Care, Around Is Around, Neighbours, Blinkity Blank, Rythmetic, A Chairy Tale, Le Merle, Opening Speech, Lines Vertical Horizontal, Canon, Mosaic, Pas de Deux, Spheres, Synchromy, Ballet Adagio, 5 part series of films, Animated Motion. *Publications:* Six Musical Forms (illustrated), "Interplay", 8 serigraphs, The Drawings of Norman McLaren 1975. *Leisure interests:* music, drawing. *Address:* c/o National Film Board, Box 6100, Montreal, Quebec H3C 3H5 (Office); P.O. Box 730, Hudson, Quebec J0P 1H0, Canada (Home). *Telephone:* (514) 333-3329 (Office).

McLAUGHLIN, Donald Hamilton, PH.D.; American mining geologist and engineer; b. 15 Dec. 1891, San Francisco; s. of William and Katherine McLaughlin; m. 1st Eleanor Eckhart 1925 (dissolved); m. 2nd Sylvia Cranmer 1948; three s. one d.; ed. Calif. and Harvard Univs.; Chief Geologist, Cerro de Pasco Copper Corpn. 1919-25; Prof. of Mining Geology, Harvard Univ. 1925-41; Dean, Coll. of Eng., Univ. of Calif. 1941-43; Vice-Pres. and Gen. Man. Cerro de Pasco Corpn. 1943-45; Pres. Homestake Mining Co. 1945-61, Chair. 1961-70, Hon. Chair. and Chair. of Exec. Cttee. 1970-; Dir. Homestake Mining Co., San Luis Mining Co.; Dir. Int. Nickel Co. of Canada 1948-73; Dir. Wells Fargo Bank (of San Francisco) 1960-68, Dir. Emer. 1968-74; Dir. Western Air Lines Inc. 1954-66, Dir. Emer. 1966-; Past Pres. American Inst. of Mining and Metallurgical Engineers 1950 (Rand Medallist and Hon. Mem.), Soc. of Econ. Geologists, and Mining and Metallurgical Soc. of America 1953; mem. Nat. Science Bd., Nat. Science Foundation 1950-60; Regent, Univ. of Calif. 1951-66; Fellow American Acad. of Art and Sciences, Geological Soc. of America; Monell Medal and Prize, Columbia Univ.; Hon. Dr. Eng. (Mich. Inst. of Mining and Tech., S. Dakota Inst. of Mining and Tech., Montana School of Mines, and Colorado School of Mines); LL.D. (Univ. of Calif., Berkeley). *Leisure interests:* gold and monetary problems, geology and exploration. *Address:* Homestake Mining Co., 650 California Street, San Francisco, Calif. (Office); 1450 Hawthorne Terrace, Berkeley, Calif., U.S.A. (Home). *Telephone:* 981-8150 (Office); 415-848-0699 (Home).

McLAUGHLIN, William Earle; Canadian banker; b. 16 Sept. 1915, Oshawa, Ont.; s. of Frank McLaughlin and Frankie L. Houldon; m. Ethel Wattie 1940; one s. one d.; ed. Queen's Univ.; joined Royal Bank of Canada 1936, Asst. Man., London, Ont. 1942, Head Office 1945, Man. Montreal Branch 1951, Asst. Gen. Man. 1953, Asst. to Pres. 1959, Gen. Man. 1960, Pres. and Dir. 1960; Chair. The Royal Bank of Canada 1962-, fmr. Pres., fmr. Chief Exec. Officer 1979; Dir. and Trustee of numerous cos. and orgs., Kt. of Grace, Venerable Order of the Hosp. of St. John of Jerusalem. *Leisure interests:* golf and curling. *Address:* The Royal Bank of Canada, 1 Place Ville Marie, Montreal 101, Quebec (Office); 67 Sunnyside Avenue, Westmount, Montreal 217, Quebec, Canada (Home).

MacLAURIN, Ian Charter; British retailing company executive; b. 30 March 1937, Blackheath; s. of Arthur and Evelina

MacLaurin; m. Ann Margaret Collar 1962; one s. two d.; ed. Malvern Coll., Worcs.; joined Tesco [redacted] Trainee Man. 1959; Dir. Tesco Stores (Holdings) Ltd. 1970, Man. Dir. 1974-. *Leisure interests:* cricket, golf. *Address:* Tesco Stores (Holdings) Ltd., Tesco House, Delamare Road, Cheshunt, Herts. (Office); Longdene, Old Lane, Knebworth, Herts., England (Home). *Telephone:* Waltham Cross 32222 (Office).

MACLEAN, Baron (Life Peer), cr. 1971, of Duart and Morvern in the County of Argyll; **Maj. Charles Hector Fitzroy Maclean,** Bt., K.T., P.C., G.C.V.O., K.B.E.; Scottish army officer and scout; b. 5 May 1916; served Scots Guards; Boy Scouts Assn., Chief Commr. for Scotland 1954-59, Chief Scout, U.K. 1959-71, Commonwealth 1959-75; Lord Chamberlain 1971-; Chancellor, Royal Victorian Order 1971-; Lord Lieut. for Argyllshire 1954-; Dir. Distillers Co.; Chief of Clan Maclean. *Address:* St. James's Palace, London, S.W.1, England; Duart Castle, Isle of Mull, Scotland.

MacLEAN, Alistair; British novelist; b. 1922; m. Gisela MacLean; three s.; ed. Glasgow Univ.; has written original screenplay for Where Eagles Dare, Deakin; Caravan to Vaccares, When Eight Bells Toll, Puppet on a Chain; mem. of Lloyds. *Publications:* H.M.S. Ulysses 1956, The Guns of Navarone 1957, South by Java Head 1958, The Last Frontier 1959, Night Without End 1960, Fear is the Key 1961, The Golden Rendezvous 1962, Ice Station Zebra 1963, When Eight Bells Toll 1966, Where Eagles Dare 1967, Force 10 From Navarone 1968, Puppet on a Chain 1969, Caravan to Vaccares 1971, Bear Island 1971, Captain Cook 1972, The Way to Dusty Death 1973, Breakheart Pass 1974, Circus 1975, The Golden Gate 1976, Sea Witch 1977, Goodbye California 1977. *Address:* c/o Wm. Collins & Sons Ltd., 14 St. James Place, London, S.W.1, England.

MACLEAN, Sir Fitzroy, Bart., C.B.E.; British author; b. 11 March 1911, Cairo, Egypt; s. of Charles Maclean and Gladys Royle; m. Veronica Fraser (d. of 16th Baron Lovat) 1946; two s.; ed. Eton and Cambridge Univ.; entered Diplomatic Service 1933; served Paris 1934-37, Moscow 1937-39; enlisted in Cameron Highlanders 1941; joined 1st Special Air Service Regiment 1942; Capt. 1942, Lt.-Col. 1943, Brig. 1943; Commdr. British Mil. Mission to Yugoslav Partisans 1943-45; Conservative M.P. for Lancaster Div. 1941-59, for Bute and N. Ayr 1959-74; Parl. Under-Sec. to State and Financial Sec. War Office 1954-57; Pres. G.B.-U.S.S.R. Assn. 1959-77, Past Pres. 1977-; Croix de guerre, Order of Kutuzov (U.S.S.R.), Partisan Star (1st Class). *Publications:* Eastern Approaches 1949, Disputed Barricade 1957, A Person from England 1958, Back to Bokhara 1959, Jugoslavia 1969, A Concise History of Scotland 1970, The Battle of the Neretva 1970, To the Back of Beyond 1974, To Caucasus 1976, Take Nine Spies 1978, Holy Russia 1979. *Address:* Strachur House, Strachur, Argyll, Scotland. *Telephone:* Strachur 242.

MacLEAN, Wing Commdr. J. Angus, D.F.C., B.SC., C.D., LL.D., M.P., P.C.; Canadian farmer and politician; b. 1914; ed. local schools in P.E.I., Mount Allison Acad., Summerside High School, Univ. of British Columbia and Mount Allison Univ.; served with R.C.A.F. 1939-47; candidate Fed. Elections 1945 and 1949; elected to House of Commons at by-election June 1951; re-elected 1953, 1957 and 1958; Minister of Fisheries June 1957-63; Leader Progressive Conservative Party, P.E.I.; Prime Minister of P.E.I. April 1979-. *Address:* Beaton's Mills, Prince Edward Island, Canada.

MacLEAN, Ronald Stuart, M.A.; Canadian diplomatist; b. 8 June 1928, Canada; m. Beverley Jean Cobb 1955; two s. one d. Instructor of Int. Affairs, Mass. Inst. of Tech. 1954-55; entered Dept. of External Affairs 1956, posts in New Delhi, Paris, Tokyo 1957-72; Dir. of Defence and External and Cultural Programs, Fed. Govt. Treasury Bd. 1972-75; Amb. and Perm. Rep. to OECD 1975-. *Address:* OECD, 2 rue André-Pascal, 75775 Paris, Cedex 16; and 26 avenue Foch, Paris 16, France. *Telephone:* 500-9052.

McLEAN, William F., B.SC. (HONS.); Canadian business executive; b. 30 Oct. 1916, Toronto; ed. Univ. of Toronto Schools, Univ. of Toronto and in U.S.A. Research Chemist, Canada Packers Ltd. 1939, in charge of all Plants and Equipment 1949, Dir. and Vice-Pres. 1950, mem. Exec. Cttee. 1952, Pres. Canada Packers Ltd. 1954-78, Chair. and Chief Exec. Officer Sept. 1978-; served with Royal Canadian Air Force 1942-46; Dir. Canadian Gen. Electric; Dir. and Vice-Pres. Canadian Imperial Bank of Commerce; Gov. Toronto Western Hosp.; mem. Bd. of Govs., Ontario Research Foundation, Massey Hall. *Address:* Canada Packers Ltd., 95 St. Clair Avenue West, Toronto, Ont., Canada.

MacLEHOSE, Sir (Crawford) Murray, G.B.E., K.C.M.G., K.C.V.O.; British diplomatist and administrator; b. 16 Oct. 1917, Glasgow; s. of Hamish A. and Margaret Bruce MacLehose; m. Margaret N. Dunlop 1947; two d.; ed. Rugby School and Balliol Coll., Oxford; served with R.N.V.R. 1939-45; entered diplomatic service 1947; Acting Consul, Hankow 1947, Acting Consul-Gen. 1948; Foreign Office 1950; First Sec., Prague 1951; seconded to Commonwealth Relations Office for service in Wellington 1954; returned to Foreign Office and transferred to Paris 1956; Counsellor 1959; Political Adviser, Hong Kong; Counsellor, Foreign Office 1963; Principal Private Sec. to Sec. of State 1965-67; Amb. to Repub. of Viet-Nam 1967-69, to Denmark 1969-71; Gov. of Hong Kong 1971-. *Leisure interests:* fishing, sailing, farming. *Address:* Government House, Hong Kong; Beoch, Maybole, Ayrshire, Scotland.

MacLEISH, Archibald, LL.B., LITT.D., D.C.L., LL.D., L.H.D.; American poet; b. 7 May 1892, Glencoe, Ill.; s. of Andrew and Martha Hillard MacLeish; m. Ada Taylor Hitchcock 1916; three s. (two deceased) one d.; ed. Yale and Harvard Univs.; Librarian of Congress 1939-44; Dir. Office of Facts and Figures 1941-42; Asst. Dir. Office of War Information 1942; Asst. Sec. of State 1944-45, resgnd; Chair. U.S. Del. to establish UNESCO 1945; Deputy Chair. U.S. Del. UNESCO 1946; U.S. mem. Exec. Bd. UNESCO 1946-47; Boylston Prof. Harvard Univ. 1949-62; Simpson Lecturer, Amherst Coll. 1964-67; Pres. American Acad. of Arts and Letters 1953-56; Pulitzer Poetry Prize 1932 and 1953; Pulitzer Drama Prize for J.B. 1958; Commdr., Légion d'honneur (France); Commdr. Order of The Sun of Peru; Presidential Medal of Freedom 1977, Nat. Medal for Literature 1978. *Publications:* The Happy Marriage 1924, The Pot of Earth 1925, Nobodaddy 1925, Streets in the Moon 1926, The Hamlet of A. MacLeish 1928, New Found Land 1930, Conquistador 1932, Union Pacific (a ballet) 1934, Panic (a play) 1935, Public Speech 1936, The Fall of the City (radio verse play) 1937, The Land of the Free 1938, Air Raid (radio verse play) 1938, America Was Promises (verse) 1939, The Irresponsibles 1940, The American Cause 1940, A Time to Speak 1941, A Time to Act 1943, The American Story (broadcasts) 1944, Act Five and other Poems 1948, Freedom is the Right to Choose 1951, Collected Poems 1952, This Music Crept By Me Upon the Waters (verse play) 1953, Songs for Eve 1954, J.B. (verse play) 1958, Poetry and Experience (prose) 1961, The Eleanor Roosevelt Story 1965 (film 1966), Herakles (verse play) 1967, A Continuing Journey (prose) 1967, The Wild Old Wicked Man and other poems 1968, Scratch (prose play) 1971, The Human Season (selected poems) 1972, The Great American Fourth of July Parade (verse play for radio) 1975, New and Collected Poems 1917-1976 1976, Riders on the Earth (prose) 1978. *Leisure interests:* walking and swimming. *Address:* Conway, Mass. 01341, U.S.A. *Telephone:* 413-369-4338.

MacLENNAN, Hugh, C.C., PH.D.; Canadian author and professor; b. 20 March 1907, Glace Bay, N.S.; s. of Dr. Samuel MacLennan and Katherine MacQuarrie; m. 1st Dorothy Duncan 1936 (died 1957); m. 2nd Frances Aline Walker 1959; ed. Dalhousie Univ., Oxford Univ., Princeton Univ.; Classics Master, Lower Canada Coll., Montreal 1935-45; writing 1945-; part-time Assoc. Prof., McGill Univ. 1951-63, Assoc. Prof. 1964-66, Full Prof. of English Literature 1966-; Gov.-Gen.'s Award for Literature (five times); Hon. LL.D., Hon. D.Litt., from various univs. *Publications:* novels: Barometer Rising 1941, Two Solitudes 1945, The Precipice 1948, Each Man's Son 1951, The Watch That Ends the Night 1959, Return of the Sphinx 1967; non-fiction: Oxyrhynchus: an Economic and Social Study 1935, Cross Country 1949, Thirty and Three (essays) 1954, Scotchman's Return and Other Essays 1960, Seven Rivers of Canada 1961, The Colour of Canada 1967, Rivers of Canada 1972. *Leisure interests:* swimming, gardening. *Address:* 1535 Summerhill Avenue, Montreal, P.Q. H3H 1C2, Canada.

McLENNAN, Sir Ian Munro, K.C.M.G., K.B.E., B.E.E.; Australian engineer; b. 30 Nov. 1909, Stawell, Victoria; m. Dora Haase Robertson 1937; two s. two d.; ed. Scotch Coll., Melbourne and Melbourne Univ.; Asst. Gen. Man. Broken Hill Pty. Co. Ltd. 1947-50, Gen. Man. 1950-56, Dir. 1953-, Sr. Gen. Man. 1956-59, Chief Gen. Man. 1959-67, Man. Dir. 1967-71, Chair. and Dir. of Admin. 1971-77; Chair. BHP-GKN Holdings Ltd. 1970-, Tubemakers of Australia Ltd. 1973-; Dir. ICI Australia Ltd. 1976-, ANZ Banking Group Ltd. 1976-, Chair. 1977-; Councillor Australasian Inst. of Mining and Metallurgy (Pres. 1951, 1957, 1972); mem. and Deputy Chair. Immigration Planning Council 1949-67; mem. Int. Council of Morgan Guaranty Trust Co., New York 1973-; Pres. Australian Acad. of Tech. Sciences 1976-; Australasian Inst. of Mining and Metallurgy Medal 1959, Inst. of Production Engineers' James N. Kirby Award 1964, Australian Inst. of Engineers Award 1968. *Leisure interests:* farming, golf. *Address:* 140 William Street, Melbourne, 3000 (Office); Apartment 3, 112 Walsh Street, South Yarra, Vic. 3141, Australia (Home). *Telephone:* 6093880 (Office); 263651 (Home).

McLOUGHLIN, Brig. Eduardo Francisco; Argentine air force officer, politician and diplomatist; b. 13 May 1918; ed. Salesians Primary and High School and Mil. Coll.; Air Force Cadet 1937-40, promoted through ranks to Brig. (Air Vice-Marshal) 1959, Aide-de-Camp to the Pres. of the Repub. 1955, retired from active service 1961; in offices of Dir.-Gen., Air Ministry 1953, mem. of Staff 1955, Dir.-Gen. 1956; 2nd Dir. *a.i.* Air Force Mil. Acad. 1955; Minister Sec. of State for Air 1957, 1962; War Minister *a.i.* 1957; Air Attaché Washington Embassy 1958-61; Amb. to U.K. 1966-70; Minister of Interior June-Oct. 1970; mem. Aeronautical Mission to Europe 1964, Argentine Del. to Interamerican Defense Bd. 1958-61; Pres. of the Honour Tribunal for Armed Forces 1965; Minister of Foreign Affairs 1972-73; U.S. and Peruvian decorations. *Address:* c/o Ministerio de Relaciones Exteriores y Culto, Arenales 76, Buenos Aires, Argentina.

McLUCAS, John Luther, PH.D.; American scientist and government official; b. 22 Aug. 1920, Fayetteville, N.C.; s. of John Luther and Viola Conley, McLucas; m. Patricia Newmaker Knapp 27 July 1946; two s. two d.; ed. Davidson Coll., Tulane Univ. and Pennsylvania State Univ.; U.S. Navy 1943-46; Physicist, U.S. Air Force, Cambridge Research Center 1946-47; Physics Dept., Pennsylvania State Univ. 1947-49; Electronics Engineer Haller, Raymond and Brown Inc. 1949-50, Vice-Pres. and Tech. Dir. 1950-57; Pres. HRB-Singer Inc. 1957-62; Chair. Pennsylvania State Univ. Industrial and Professional Advisory Council 1957-62; Deputy Dir. of Research and Eng. (Tactical Warfare Programs) U.S. Dept. of Defense 1962-64; Asst. Sec.-Gen. for Scientific Affairs, NATO 1964-66; Pres. The Mitre Corpn. 1966-69; Under-Sec. Air Force 1969-73, Sec. Air Force 1973-75; Admin. Fed. Aviation Admin. 1975-77, Pres. Comsat Gen. Corpn., Washington 1977-; Dept. of Defense Distinguished Civilian Service Award 1964, 1973 (First Bronze Palm), 1975 (Silver Palm); NASA D.S.M. 1975; [redacted] Defense Intelligence Agency Scientific Advisory Cttee. 1966, New York Acad. Sciences 1967, Air Force Scientific Advisory Bd. 1967-69, 1977-, Defense Science Bd. 1968, Nat. Acad. Eng. 1969, A.I.A.A., Operations Research Soc., American Physics Soc.; Fellow, Inst. Electrical and Electronics Engineers; Hon. D.Sc. (Davidson Coll.) 1974. *Address:* Administrator, Federal Aviation Administration, 800 Independence Avenue, S.W., Washington, D.C. (Office); 6519 Dearborn Drive, Falls Church, Va. 22044, U.S.A. (Home). *Telephone:* 202-426-3111 (Office); 703-256-1016 (Home).

McLUHAN, (Herbert) Marshall, PH.D.; Canadian university professor and author; b. 21 July 1911, Edmonton, Alberta; s. of Herbert Ernest and Elsie Naomi (Hall) McLuhan; m. Corinne Lewis 1939; two s. four d.; ed. Univ. of Manitoba and Cambridge Univ.; taught at Univ. of Wisconsin 1936-37, Univ. of St. Louis 1937-44, Assumption Univ. 1944-46, St. Michael's Coll., Univ. of Toronto 1946-, Prof. 1952-; Chair. Ford Foundation Seminar on Culture and Communication 1953-55; co-editor Explorations Magazine 1954-59; Dir. Media Project for Nat. Assen. of Educational Broadcasters and Office of Educ., U.S.A. 1959-60; apptd. to create and dir. Centre for Culture and Tech., Univ. of Toronto 1963-; Schweitzer Prof. in Humanities, Fordham Univ. 1967-68, Eugene McDermott Prof., Univ. of Dallas 1975; has delivered many memorial lectures; Consultant Pontifical Comm. for Social Communications 1973; F.R.S.C. 1964, C.C. 1970; numerous hon. degrees and awards. *Publications:* The Mechanical Bride: Folklore of Industrial Man 1951, Selected Poetry of Tennyson 1956, Explorations in Communications (with E. S. Carpenter) 1960, The Gutenberg Galaxy: The Making of Typographic Man 1962, Understanding Media 1964, Voices of Literature (with R. J. Schoeck) Vol. I 1964, Vol. II 1965, Vol. III 1970, The Medium is the Massage 1967, War and Peace in the Global Village 1968, Through the Vanishing Point: Space in Poetry and Painting (with Harley Parker) 1968, Counterblast 1969, Culture is Our Business 1970, Literary Criticism of Marshall McLuhan 1943-62 1969, From Cliché to Archetype (with Wilfred Watson) 1970, Take Today: The Executive As Dropout (with Barrington Nevitt) 1972, City [redacted] Classroom (with Kathryn Hutchon [redacted]d Eric McLuhan) 1977, D'oeil à oreille 1977, Autre homme, autre chrétien à l'âge électronique (with P. Babin) 1977, Wohin steuert die Welt? 1978. *Leisure interest:* boating. *Address:* Centre for Culture and Technology, University of Toronto, Toronto 5 (Office); 3 Wychwood Park, Toronto 4, Ontario, Canada (Home). *Telephone:* (416) 654-0411.

McMAHON, Rt. Hon. Sir William, G.C.M.G., P.C., C.H., LL.B., B.EC.; Australian lawyer and politician; b. 23 Feb. 1908, Sydney, N.S.W.; s. of William Daniel and Mary McMahon; m. Sonia Rachel Hopkins 1965; one s. two d.; ed. Sydney Univ.; practised as solicitor until 1939; served 1939-45 War; mem. House of Reps. 1949-; Minister for Navy and Air 1951-54, for Social Services 1954-56, for Primary Industry 1956-58, for Labour and Nat. Service 1958-66, Treas. 1966-69; Minister for Foreign Affairs 1969-71, Prime Minister 1971-72; Acting Minister of Trade 1956, in charge CSIRO 1956, for Labour and Nat. Service 1957, Nat. Devt. 1959; Acting Attorney-Gen. 1960, 1961; Acting Minister for Territories 1962; Acting Minister for Labour and Nat. Service Nov.-Dec. 1966, Sept. 1968, June-July 1969, Sept.-Oct. 1969; Vice-Pres. Exec. Council 1964-66; Acting Treas. Sept.-Oct. 1971; Deputy Leader Liberal Party 1966-71, Leader 1971-72; Leader Australian Del. Commonwealth Parl. Conf. New Delhi 1957; Pres. ILO Regional Conf., Melbourne 1962; Visiting Minister ILO Conf. Geneva 1960, 1964; Leader Australian Del. to IMF and World Bank Confs. Washington 1966, Rio de Janeiro 1967, Washington 1968, to Commonwealth Finance Ministers Confs. Montreal 1966, Trinidad 1967, London 1968; Gov. Asian Devt. Bank 1968-69, Chair. 1968-69; Leader Australian Dels. to ECAFE Bangkok, Conf. of Foreign Ministers Jakarta, SEATO Manila, Troop Contributing Countries Conf. Saigon, Devt. Assistance Cttee. Tokyo, 25th UN Gen. Ass. 1970, Commonwealth Heads of Govt. Singapore 1971. *Leisure interests:* reading, squash, golf, swimming, music, farming. *Address:* Parliament House, Canberra, A.C.T. 2600; Westfield House, Canberra; 100 William Street, Sydney, N.S.W. 2011, Australia. *Telephone:* 358-1433 (Sydney); 731023 (Canberra).

McMICHAEL, Sir John, Kt., F.R.S., M.D., F.R.C.P., F.A.C.P.; British emeritus professor of medicine; b. 25 July 1904; s. of James McMichael and Margaret Sproat; m. 1st Sybil E. Blake (died 1965), four s.; m. 2nd Sheila M. Howarth; ed. Kirkcudbright Acad. and Edinburgh Univ.; Beit Memorial Fellow 1930-34; Johnston and Lawrence Fellow, Royal Soc. 1937-39; Univ. teaching appointments, Aberdeen, Edinburgh, London; Dir. Dept. of Medicine, Postgraduate Medical School of London 1946-66, British postgraduate Medical Federation 1966-71; mem. Medical Research Council 1949-53; Hon. mem. American Medical Assen. 1947, Medical Soc. Copenhagen 1953, Norwegian Medical Soc. 1954, Assen. of American Physicians 1959; Foreign mem. Finnish Acad. of Sciences and Letters 1963, U.S. Nat. Acad. of Sciences 1974; foreign mem. Royal Acad. of Medicine, Belgium; numerous lectureships; Cullen Prize, Royal Coll. of Physicians (Edinburgh) 1953; Jacobs Award, Dallas 1958; Morgan Prof., Nashville 1964; Moxon Medal, Royal Coll. of Physicians 1960; Gairdner Award, Toronto 1960; Wihuri Int. Prize, Finland 1968; Trustee, Wellcome Trust 1960-77; Vice-Pres. Royal Soc. 1969-70. *Publications:* Pharmacology of the Failing Human Heart 1951; numerous papers on: splenic anaemia 1931-35, cardiac output in health and disease 1938-47, lung capacity in man 1938-39, liver circulation and liver disease 1932-43. *Leisure interest:* gardening. *Address:* 2 North Square, London, NW11 7AA, England. *Telephone:* 01-455 8731.

McMILLAN, Edwin M(attison), PH.D.; American physicist; b. 18 Sept. 1907, Redondo Beach, Calif.; m. Elsie Blumer 1941; two s. one d.; ed. California Inst. of Tech. and Princeton Univ.; Nat. Research Fellow, Univ. of Calif. 1933-34, Research Assoc. 1935, Asst. Prof. 1935-41, Assoc. Prof. 1942-46, Prof. of Physics at Univ. of Calif., Berkeley 1946-73, Prof. Emer. 1973-; mem. Gen. Advisory Cttee. U.S. Atomic Energy Comm. 1954-58; Dir. E. O. Lawrence Radiation Lab., Univ. of Calif. 1958-71; Dir. Lawrence Berkeley Lab. 1971-73; mem. High Energy Physics Comm., Int. Union for Pure and Applied Physics 1960-66; Trustee Rand Corpn. 1959-69; Trustee Univ. Research Assen. 1969-74; Chair. Class I, Nat. Acad. of Sciences 1968-71; Guest Prof. CERN, Geneva 1974; D.Sc. h.c. (Rensselaer Polytechnic Inst.) 1961, (Gustavus Adolphus Coll.) 1963; Research Corpn. Scientific Award 1951, Nobel Prize in Chemistry (with G. T. Seaborg) 1951; Atoms for Peace Prize (with V. Veksler) 1963; Alumni Distinguished Service Award, Calif. Inst. of Tech. 1966. *Address:* Univ. of California, Berkeley, Calif. 94720, U.S.A.

MacMILLAN, Kenneth; British ballet director; b. 11 Dec. 1929; ed. Great Yarmouth Grammar School; Choreographer 1953-; Resident Choreographer, Royal Ballet until 1966, 1977-; Dir. of Ballet, Deutsche Oper, Berlin 1966-70; Dir. The Royal Ballet 1970-77. *Major Choreography:* Romeo and Juliet, Song of the Earth, Rite of Spring, Las Hermanas, The Invitation, Diversions, The Fairy's Kiss, Danses concertantes, Agon, Solitaire, Noctambules, House of Birds, Images of Love, The Seven Deadly Sins, Anastasia, Cain and Abel, Olympiad, Checkpoint, Triad, Pavane, Manon 1974, Elite Syncopations 1974, The Four Seasons 1975, Rituals, Requiem, Mayerling 1978. *Address:* c/o Royal Opera House, Covent Garden, London, W.C.2., England.

MACMILLAN, Rt. Hon. (Maurice) Harold, O.M., P.C., F.R.S.; British politician and publisher; b. 10 Feb. 1894; s. of the late Maurice Crawford Macmillan; m. Lady Dorothy Cavendish 1920 (died 1966); one s. (Rt. Hon. Maurice Victor Macmillan, *q.v.*) three d. (one deceased); ed. Eton Coll. and Balliol Coll., Oxford; Capt. in

Grenadier Guards 1914-18; A.D.C. to Gov.-Gen. of Canada 1919-20; Conservative M.P. for Stockton-on-Tees 1924-29 and 1931-45, Bromley Div. of Kent Nov. 1945-64; Parl. Sec. Ministry of Supply 1940-42; Parl. Under-Sec. of State for Colonies 1942; Minister-Resident in N.W. Africa and Cen. Mediterranean 1942-45; Diplomatic Rep. with French Nat. Cttee. 1943-44; British mem. Advisory Council for Italy, Chair. 1944-45; Sec. of State for Air May-July 1945; Minister of Housing and Local Govt. 1952-54, of Defence 1954-55; Sec. of State for Foreign Affairs 1955; Chancellor of the Exchequer 1955-57; Prime Minister and First Lord of the Treasury 1957-63; Chair. Macmillan (Holdings) 1963-; Chair. Macmillan Co. Ltd. 1970-74, Pres. 1974-; Dir. Pan Books Ltd.; Chancellor Oxford Univ. 1960-; Ian McLeod Memorial Lecture 1975; Hon. D.C.L. (Durham, Oxford); Hon. LL.D. (Cambridge, St. Andrews, Sussex); Hon. D.Litt. (Leeds); Benjamin Franklin Medal 1976. *Publications:* Industry and the State (with others) 1927, Reconstruction: a plea for a National Policy 1933, The Next Five Years 1935, The Middle Way 1938, Planning for Employment 1938, Economic Aspects of Defence 1939, Winds of Change (autobiog. vol. I) 1966, The Blast of War (autobiog. vol. II) 1967, Tides of Fortune (autobiog. vol. III) 1969, Riding the Storm (autobiog. vol. IV) 1971, Pointing the Way (autobiog. vol. V) 1972, At the End of the Day (autobiog. vol. VI) 1973, The Past Masters 1975. *Address:* Birch Grove House, Chelwood Gate, Hayward's Heath, Sussex, England.

MACMILLAN, Rt. Hon. Maurice Victor, M.P.; British politician; b. 27 Jan. 1921, London; s. of Rt. Hon. Harold Macmillan (*q.v.*); m. The Hon. Katherine M. A. Ormsby-Gore 1942; three s. one d.; ed. Eton Coll. and Balliol Coll., Oxford; M.P. for Halifax 1955-64, for Farnham 1966-; Chair. Macmillan & Co. Ltd. 1967-70, 1974-, Macmillan & Cleaver Ltd. 1967-70; Deputy Chair. Macmillan (Holdings) Ltd. 1966-70; fmr. Dir. Monotype Corpn. Ltd., Yorkshire TV Ltd.; Chief Sec. H.M. Treasury 1970-72; Sec. of State for Employment 1972-73; Paymaster-Gen. 1973-74; Conservative. *Leisure interests:* hunting, shooting, horse-riding. *Address:* 12 Catherine Place, London, S.W.1; Highgrove, Doughton, Tetbury, Glos., England.

MacMILLAN, Norman John, C.C., Q.C., LL.D.; Canadian executive; b. 8 April 1909, Bracebridge, Ontario; s. of John Malcolm MacMillan and Ida Alberta Brown; m. Doris Maude Horne 1937; one s. one d.; ed. Univ. of Manitoba and Manitoba Law School; Law Practice, Winnipeg 1935-37; Asst. Gen. Solicitor Montreal 1943-; Gen. Counsel 1945-; Gen. Counsel Trans-Canada Air Lines 1945-56; assisted Govt. with Commonwealth Air Training Plan during Second World War; with Canadian Nat. Railways 1937-, instrumental in modernization programme; Vice-Pres. and Gen. Counsel 1949, Exec. Vice-Pres. 1956-57, Chair. and Pres. 1967-74; fmr. Chair. and Pres. of Canadian Nat. Express Co., Canadian Nat. Railway Co., Canadian Nat. Realties Ltd., Canadian Nat. Steamship Co. Ltd., Canadian Nat. Telegraph Co. Ltd., Canadian Nat. Transfer Co., Canadian Nat. Transportation Ltd., Canadian Northern Quebec Railway Co., Great North Western Telegraph Co. of Canada, Mount Royal Tunnel and Terminal Co. Ltd., Quebec and Lake St. John Railway Co.; Chair. Grand Trunk Corpn.; Pres. and Dir. Canadian Nat. Railways Trust Co., Cen. Vermont Transportation Co., Duluth, Winnipeg and Pacific Railroad Co., Northern Consolidated Holding Co. Ltd.; Dir. Air Canada, Canadian Exec. Service Overseas; [illegible] Canadian Bar Assn., McGill, Sir George Williams and Univ. of Montreal Assocs., Law Soc. of Manitoba, Manitoba Bar Assn.; Gov. Montreal Gen. Hosp., Olympic Trust of Canada and Canadian Export Assn. *Leisure interests:* photography, skiing, hunting. *Address:* 135 Lazard Avenue, Mount Royal, Montreal 305, Quebec, Canada.

McMILLEN, Dale Wilmore, Jr., B.A.; American business executive; b. 6 Jan. 1914; s. of Dale and Agnes McMillen; brother of Harold Wilmore McMillen (*q.v.*); ed. Northwestern Univ.; Production Dept., Cen. Soya Co. Inc., Decatur, Ind. 1936-39, Vice-Pres., later Exec. Vice-Pres. 1939-46, Vice-Chair. Bd. 1946-50, Pres. 1954-70, Chair. 1970, Chair. Exec. Cttee. 1971-; Dir. Fort Wayne Nat. Bank 1947-, Pres. Bd. of Aviation Commrs. Fort Wayne 1959-; Dir. Cen. Soya-Seriom S.p.A., official of educational and church orgs. *Address:* Fort Wayne Bank Building, Fort Wayne, Ind. 46802 (Office); 3415 South Washington Road, Fort Wayne, Ind. 46804, U.S.A. (Home).

McMULLIN, Sir Alister Maxwell, K.C.M.G.; Australian politician; b. 14 July 1900, Scone, N.S.W.; s. of William G. McMullin; m. Thelma L. Smith 1945; [illegible] d.; [illegible] of Senate 1951-71, Pres. 1953-71; Chair. Gen. Council of Commonwealth Parl. Assn. 1959-60, 1969-70; Deputy Chair. Nat. Library of Australia; Chair. Parl. Library Cttee.; Chancellor, Univ. of Newcastle, N.S.W. 1966-; Chair. Parl. Jt. Select Cttee. on the New and Perm. Parl. House, Australian Advisory Council on Bibliographical Services; mem. Liberal Party. *Address:* St. Aubin's, Scone, N.S.W. 2337, Australia. *Telephone:* Scone 153.

McMURRAY, Joseph Patrick Brendan; American economist; b. 4 March 1912, Bronx, New York; s. of Bartholomew and Catherine O'Carvell; m. Rose-Marie Barker McMurray; six s. three d.; ed. Jamaica High School, Queens, New York, Brooklyn Coll., and New School for Social Research; Economist, Gov. Agencies 1940-44; Econ. Consultant, U.S. Senate Labor and Educ. Comm. 1945-47; Admin. Asst. to U.S. Senator Wagner 1947-48; Consultant and Staff Dir. U.S. Senate Banking and Currency Comm. 1948-54; Exec. Dir. New York City Housing Authority 1954-55; Commr. of Housing, N.Y. 1955-59; Pres. Queensborough Community Coll. 1959-61; Chair. Fed. Home Loan Bank Bd. 1961-65; Pres. of Queens Coll., Flushing, New York 1965-71, Coll. of New Rochelle, New York 1971-73; special assistant to Speaker, House of Reps., [illegible] Econ. Consultant, First PENNCO Security Inc. *Leisure interests:* reading, fishing and golf. *Address:* 907 6th Street S.W., Apt. 8, Washington D.C. 20024 (Office); The New Nautilus, Ocean Boulevard and Dutchess Boulevard, Atlantic Beach, N.Y. 11509, U.S.A. (Home).

MacNABB, Byron Gordon; American retd. research and development engineer; b. 14 Aug. 1910, Gary, Ind.; s. of Walter S. and Leila B. (née Mogle) MacNabb; m. Iris L. Cook 1939; one d.; ed. Rose Polytechnic Inst., Terre Haute, and Illinois Inst. of Tech.; worked for Carnegie Steel Corpn., S. Chicago 1930-43; U.S. Navy officer 1943-48; Asst. to Dir. of Research for Sandia Corpn., Albuquerque, working on A-bomb 1948-50; Asst. to Dir. of Research, Pullman Standard Car Co. 1950-53; Operations Man. for Cambridge Corpn. 1953-55; joined Convair-Astronautics (now Gen. Dynamics/Convair) 1955, Operations Man. at Air Force Missile Test Center, Cape Canaveral 1955-62, Dir. of Operations 1962-63; Dir. of Test Eng., Gen. Dynamics/Astronautics, San Diego 1963-65; Operations Man. Gen. Dynamics/Convair, Cape Kennedy 1965-66; responsible for Launch Operations, Atlas/Mercury Manned Orbital Project Mercury, Cape Canaveral; Man. Tests and Operations, Advanced Interplanetary Programs, Gen. Electric Co., Missile & Space Div. 1966-68; Consulting Engineer Gen. Electric, Space and Re-entry Systems 1968; Presidential Citation for devt. of first anti-kamakazi anti-aircraft weapon, and other awards. *Address:* P.O. Box 312, West Yellowstone, Mont. 59758, U.S.A.

McNAMARA, Robert Strange, LL.D.; American businessman, government official and international civil servant; b. 9 June 1916; ed. Univ. of California and Harvard Univ.; Asst. Prof. in Business Admin., Harvard Univ. 1940-43; served Army, Air Force 1943-46; Exec. Ford Motor Co. 1946-61, Vice-Pres. 1955-60, Pres. 1960-61; U.S. Sec. of Defense 1961-68; Pres. of The World Bank April 1968-; mem. Ford Foundation, Brookings Inst., Calif. Inst. of Tech., Urban Inst.; mem. American Acad. of Arts and Sciences; Legion of Merit; U.S. Medal of Freedom 1968. *Publications:* The Essence of Security: Reflections in Office 1968, One Hundred Countries—Two Billion People 1973. *Address:* The World Bank, 1818 H Street, N.W., Washington, D.C. 20433 (Office); 2412 Tracy Place, Washington, D.C. 20008, U.S.A. (Home).

MacNAUGHT, Rt. Hon. J. Watson, P.C., Q.C., B.A., LL.B., M.P.; Canadian lawyer and politician; b. 19 June 1904, Coleman, P.E.I.; s. of Robert C. MacNaught and Emily Moreshead; m. Eva Palmer 1932; two s.; ed. Prince of Wales Coll., Charlottetown, Prince Edward Island, and Dalhousie Univ.; called to Nova Scotia Bar 1932, P.E.I. Bar 1932; King's Counsel 1942; Law Clerk to Legis. Ass. of P.E.I. 1935-42, Clerk 1942-45; Crown Prosecutor, Prince County, P.E.I. 1943-45; [illegible] House of Commons 1945-57, 1963-65; Parl. Asst. to Minister of Fisheries 1948-57; Solicitor-Gen. of Canada 1963-65, Minister of Mines and Tech. Surveys 1965; Chair. Dominion Coal Bd. 1965-68; [illegible] mem. firm J. Watson & John W. MacNaught; Liberal. *Address:* 7 Smallman Building, Summerside, P.E.I. (Office); 75 Spring Sheet, Summerside, P.E.I., Canada (Home). *Telephone:* 902-436-2524 (Office); 902-436-9834 (Home).

MACNAUGHTON, Rt. Hon. Alan Aylesworth, P.C., Q.C., B.C.L., LL.D.; Canadian lawyer and politician; b. 1904, Napanee, Ont.; s. of Donald Carmichael and Mabel Louise (Aylesworth) Macnaughton; m. Mary Caroline White 1942; two s. [illegible] d.; ed. McGill Univ. and London School of Econs.; Lawyer, Montreal; Crown Prosecutor Montreal 1938-42; Sec. Bar of Montreal 1938-39; Pres. Jr. Bd. of Trade 1939-40; Vice-Pres. Jr. Chamber of Commerce Canada 1940; M.P. 1949-66, Chair. House of Commons Public Accounts Cttee. 1958-63, Speaker House of Commons 1963-66; mem. Senate of Canada 1966-; Liberal; Counsel, Martineau, Walker, Allison, Beaulieu, MacKell and Clermont; Chair. Pirelli Canada Ltd., Canadian Offshore Marine Ltd.; Pres. Electrofin Construction Investments

Ltd.; Int. Adviser Swiss Bank Corpn.; Dir. and Sec. Aviation Electric Ltd., Hoffman-La Roche Ltd.; Dir. Boise Cascade Canada Ltd., Fed. Insurance Co. of Canada Ltd., Albion Insurance Co. of Canada; Chair. World Wildlife Fund (Canada), Int. Trustee of World Wildlife Fund International; Hon. Life mem. Assemblée Nat. de la France. *Address:* The Stock Exchange, Tower Place, Victoria, Montreal, P.Q. (Office); 7 Redpath Row, Montreal, P.Q., Canada (Home). *Telephone:* 866-9575 (Office).

MacNAUGHTON, Donald Sinclair, LL.B.; American business executive; b. 14 July 1917, Schenectady, N.Y.; s. of William MacNaughton and Marion (Colquhoun) MacNaughton; m. Winifred Thomas 1941; two s.; ed. Syracuse Univ. and Syracuse Univ. School of Law; Teacher of History, Pulaski (N.Y.) Acad. and Central School 1939-42; admitted to N.Y. Bar 1948; private law practice, Pulaski 1948-54; Deputy Sup. of Insurance, N.Y. State 1954-55; with Prudential Insurance Co. of America 1955-70, Chair. of Bd. and Chief Exec. Officer 1970-78; Chair. of Bd. and Chief Exec. Officer. Hosp. Corpn. of America Oct. 1978-; Chair Inst. of Life Insurance; Dir. Exxon Corpn., The Conf. Board, Econ. Club of New York; Trustee Syracuse Univ., Comm. for Econ. Devt.; mem. American Bar Assn. *Leisure interests:* golf, boating, reading. *Address:* Hospital Corporation of America, One Park Plaza, Nashville, Tenn. 37205 (Office); 109 Lynwood Terrace, Nashville, Tenn. 37203, U.S.A. (Home).

McNEE, Sir David Blackstock, Kt.; British police officer; b. 23 March 1925, Glasgow; s. of John McNee and late Mary McNee (née Blackstock); m. Isabella Clayton Hopkins 1952; one d.; ed. Woodside Sr. Secondary School, Glasgow; Deputy Chief Constable, Dunbartonshire Constabulary 1968-71; Chief Constable, City of Glasgow Police 1971-75; Chief Constable, Strathclyde Police 1975-77; Commr., Metropolitan Police 1977-; Fellow, British Inst. Man. 1977; Order of St. John 1974, Commdr. 1977; Queen's Police Medal 1975. *Leisure interests:* fishing, golf, music. *Address:* New Scotland Yard, Broadway, London, SW1H 0BG, England. *Telephone:* 01-230 1212.

McNEE, Sir John (William), Kt., D.S.O., M.D., D.SC., F.R.C.P., F.R.S.E.; British physician; b. 17 Dec. 1887, Mount Vernon, Lanarkshire, Scotland; s. of John McNee and Agnes Caven; m. Geraldine Le Bas 1923 (died 1975); ed. Glasgow, Freiburg and Johns Hopkins Univs.; fmrly. Asst. Prof. of Medicine and Lecturer in Pathology Glasgow Univ., Assoc. Prof. of Medicine and Associate Physician Johns Hopkins Univ.; Lettsom Lecturer Medical Soc. of London 1931; Croonian Lecturer Royal Coll. of Physicians 1932; Vicary Lecturer, Royal Coll. of Surgeons 1958, Examiner in Medicine Cambridge, Sheffield, St. Andrews, Edinburgh, Leeds Univs. and National Univ. of Ireland; Physician Univ. Coll. Hosp., London and Holme Lecturer in Clinical Medicine Univ. Coll. Hosp. Medical School; Regius Prof. of Medicine, Glasgow Univ. Sept. 1936-53, Emer. 1953-; Physician to H.M. King George VI and later to H.M. Queen Elizabeth II in Scotland 1937-54; Consulting Physician to R.N. 1935-55; Consulting Physician to Western Infirmary, Glasgow; Consulting Physician, Univ. Coll. Hosp., London; Pres. Assn. of Physicians of G.B. and Ireland 1951-52; Pres. Gastro-Enterological Soc. of G.B. 1950-51; Pres. British Medical Assn. 1954-55; Master, Barber-Surgeon's Co. of London 1957; served with Royal Army Medical Corps 1914-18, with R.N. 1939-46; Surgeon-Rear-Admiral and Consulting Physician; Hon. M.D. (Nat. Univ. of Ireland), Hon. LL.D. (Glasgow and Toronto Univs.). *Publications:* Diseases of the Liver, Gall-Bladder and Bile Ducts (with late Sir Humphry Rolleston) 3rd edn. 1929, Textbook of Medical Treatment (with Dunlop and Davidson) 6th edn. 1952, and many papers, especially on diseases of the liver and spleen and on diseases. *Leisure interests:* country sports, reading. *Address:* Barton Edge, Worthy Road, Winchester, Hampshire, England. *Telephone:* Winchester 65444.

MacNEIL, Cornell Hill; American opera singer; b. 24 Sept. 1922, Minneapolis, Minn.; s. of Walter Hill and Harriette Belle (Cornell) MacNeil; m. 1st Margaret Gavan 1947 (divorced 1972), two s.; three d.; m. 2nd Tania Rudensky 1972; ed. Julius Hartt School of Music, Univ. of Hartford, West Hartford, Conn.; *appeared on Broadway in* Sweethearts 1947, Where's Charley 1949; operatic début as John Sorel in world premiere of The Consul (Menotti) 1950; *début* with New York City Opera as Germont in La Traviata 1953, at La Scala, Milan, as Charles V in Ernani 1959, at Metropolitan Opera, New York in title-role of Rigoletto 1959; has appeared in leading opera houses of Europe, U.S.A., S. America; Pres. American Guild of Musical Artists 1971-77; Alumnus of Year, Hartt School of Music 1976. *Leisure interests:* cooking, woodwork, gardening.

McNEIL, Frederick Harold; Canadian banker; b. 17 Nov. 1916, Saskatoon, Sask.; s. of Harold and Jean McNeil (née Swan); m. Marian Doreen Williams 1943; two s. d.; ed. Univs. of Manitoba and Saskatchewan; Journalist 1945-54; Man. Consultant, Braun & Co. 1954-56; Dir. Man. Services, Powell River Co. 1956-60; Dir. Org. Personnel and Admin. Planning, Ford Motor Co. of Canada 1960-65; Gen. Man. Personnel Planning, Bank of Montreal 1966-67, Vice-Pres. Org. and Personnel 1967-68, Exec. Vice-Pres. Admin. 1968-70, Exec. Vice-Pres., Gen. Man. 1970-73, Pres., Chief Operating Officer 1973-74, Deputy Chair. and Chief Exec. Officer Jan.-Dec. 1975, Chair. and Chief Exec. Officer Dec. 1975-; Chair. Exec. Cttee. Int. Resources and Finance Bank S.A. Luxembourg; Dir. Bank of Montreal, Bank of Montreal (Calif.), BM-RT Realty Investments (Trustee), MICC Investments Ltd., Mortgage Insur- Co. of Canada Ltd., Dominion Life Assurance Co., Canadian Canners Ltd., The Seagram Co. Ltd.; Life Gov., Montreal Gen. Hosp.; mem. Advisory Bd., Univ. of Western Ontario Business School and many other orgs.; Air Force Cross. *Leisure interests:* ranching, riding. *Address:* Bank of Montreal, 129 St. James Street W., Montreal, Quebec Province H2Y 1L6 (Office); 36 Surrey Gardens, Westmount, Quebec Province H3Y 1N6, Canada (Home). *Telephone:* 514-877-7044 (Office); 514-482-3861 (Home).

McNEILE, Lt.-Col. Robert Arbuthnot, M.B.E.; British brewing executive; b. 14 March 1913, Stoke Poges; m. Pamela Rachel Paton (née Pollock) 1944; three s. one d.; ed. Eton Coll. and Kings Coll. Cambridge Univ.; taught Eton Coll. 1935-36; brewer with A. Guinness Son & Co. Ltd. 1936-, Man. Dir. 1968-75, Co-Chair. 1975-78, Deputy Chair. Oct. 1978-; fought in British Army (Royal Engineers) 1940-46; Control Comm. in Germany—Controller of Alcohol, British Zone 1946; Chair. Brewers' Soc. 1975-77, Vice-Pres. 1977-; Treas. Lister Inst. of Preventive Medicine. *Leisure interests:* archaeology, ornithology, shooting, skiing, reading. *Address:* Broad Lane House, Brancaster, Norfolk, England. *Telephone:* Brancaster 227.

McNEILL, Sir James Charles, Kt., C.B.E., F.A.S.A., F.A.I.M.; Australian accountant and business executive; b. 29 July 1916, Hamilton, N.S.W.; s. of C. A. H. McNeill; m. Audrey E. Mathieson 1942; one s.; ed. Newcastle High School, N.S.W.; Accountant, The Broken Hill Pty. Co. Ltd. 1947-54, Asst. Sec. 1954-56, Asst. Gen. Man. (Commercial) 1956-59, Gen. Man. (Commercial) 1959-67, Exec. Gen. Man. 1967-71, Man. Dir. 1971-77, Chair. and Dir. of Admin. 1977-; Chair. Queensland Coal Mining Co. Ltd., N.W. Shelf Devt. Pty. Ltd., Australian Iron & Steel Pty. Ltd., Australian Wire Industries Pty. Ltd., BHP Nominees Pty. Ltd., Dampier-Mining Co. Ltd., Groote Eylandt Mining Co. Ltd., Hematite Petroleum Pty. Ltd., Tasmanian Electro Metallurgical Co. Ltd., The Broken Hill Pty. Co. Ltd., Mount Newman Mining Co. Pty. Ltd.; Vice-Pres. Private Investment Co. for Asia; Dir. BHP-GKN Holdings Ltd., Hematite Petroleum (NZ) Ltd., Woodside-Burmah Oil N.L., Woodside Petroleum, Mount Newman Mining Co. Pty. Ltd.; Mfg. Industries Advisory Council; Pres. Australian Mining Industry Council; mem. Council, Chair. Finance Cttee., Monash Univ.; mem. Govt.'s Economic Consultative Group. *Leisure interests:* farming, music, gardening. *Address:* The Broken Hill Proprietary Co. Ltd., B.H.P. House, 140 William Street, Melbourne 3000 (Office); 104 Mont Albert Road, Canterbury, Victoria, Australia.

McNICOL, David Williamson, C.B.E.; Australian diplomatist; b. 20 June 1913, Adelaide; s. of Donald McNicol and Elizabeth Robertson; m. Margaret Hargrave 1947; s.; ed. Carey Grammar School, Melbourne, Kings Coll., Adelaide and Adelaide Univ.; Minister to Cambodia, Laos and Vietnam 1955-56, Commr. to Singapore 1958-60, High Commr. in Pakistan 1962-65, in New Zealand 1965-68; Amb. to Thailand and Rep. to SEATO 1968-69; High Commr. to Canada 1969-73; Deputy High Commr. in U.K. 1973-75; Amb. to S. Africa 1975-78. *Leisure interests:* golf, reading, gardening. *Address:* c/o Department of Foreign Affairs, Administrative Building, Parkes, A.C.T. 2600, Australia.

McNULTY, Anthony, C.B.E.; British barrister and human rights lawyer; b. 25 May 1911, Warwick; s. of Canon B. McNulty and Mrs. M. McNulty; ed. Winchester Coll., Magdalen Coll., Oxford; called to Bar, Middle Temple 1932; service in Army in N. Africa and Italy and in Mil. Govt., Vienna 1939-46; Asst. Legal Adviser, Colonial Office 1947-50; London Man. and Dir. of private business firm 1950-54; Sec., European Comm. of Human Rights, Council of Europe, Strasbourg 1954-76; Dir. British Inst. of Human Rights Jan. 1977-. *Address:* Whites Club, 37 St. James's Street, London, S.W.1, England. *Telephone:* 01-492 1242.

MACOMBER, William Butts, Jr., M.A., LL.B.; American government official and diplomatist; b. 28 March 1921, Rochester, N.Y.; s. of William B. and Elizabeth C. (Ranlet) Macomber; m. Phyllis Bernau 1963; ed. Phillips Andover Acad., Yale, Harvard and Chicago Univs.; Lecturer in Govt., Boston Univ. 1947-49; with CIA, Washington 1951-53; Asst. to Special Asst. to Sec. of State 1953-

54; Special Asst. to Under-Sec. of State 1955; Special Asst. to Sec. of State 1955-57; Asst. Sec. of State for Congressional Relations 1957-61; Amb. to Jordan 1961-63; Asst. Admin. Agency for Int. Devt. (AID), Washington 1964-67; Asst. Sec. of State for Congressional Relations 1967-69; Deputy Under Sec. of State for Man. 1969-73; Amb. to Turkey 1973-77. *Address:* c/o Department of State, 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

MACOVESCU, George, LL.B.; Romanian politician and writer; b. 28 May 1913, Joseni, Buzau Dist.; s. of Nicolae and Maria Macovescu; m. Emilia Grigorescu 1963; one s. one d.; ed. Bucharest Univ.; Sec.-Gen. Information Ministry 1945-47, Chargé d'affaires London 1947-49, Dir., Ministry of Foreign Affairs 1949-52, Dir.-Gen. of Cinematography 1955-59; Minister, Washington 1959-61; Deputy Minister of Foreign Affairs 1961-67, First Deputy Minister 1967-72, Minister 1972-78; Prof., Faculty of Romanian Language and Lit., Bucharest Univ. 1949-; Romanian Communist Party 1936-, Cen. Cttee. 1969-; mem. Grand Nat. Ass. 1969-; mem. Exec. Bureau, Nat. Council Socialist Unity Front; Acad. of Social and Political Sciences 1970-; Writers' Union of the Socialist Repub. of Romania (Pres. 1977-); Sec. Bucharest Writers' Assen. 1972-77. *Publications:* Viaţa si opera lui Alexandru Sahia (The Life and Work of Alexandru Sahia) 1950, Contradicţii în Imperiul Britanic (Contradictions in The British Empire) 1950, Teoria literaturii (Theory of Literature) 1963, Virstele Timpului (The Ages of Time) 1971, Catargele inalte (Tall Masts) 1972, Gheorghe Lazăr 1973, Farmecul pământului (Charm of the Earth) 1977. *Address:* Uniunea Scriitorilor, Sos. Kiseleff 10, Bucharest, Romania. *Telephone:* 50 74 18.

McPHERSON, Harry Cummings, Jr., B.A., LL.B.; American lawyer and government official; b. 22 Aug. 1929; ed. Tyler High School, Texas, Southern Methodist Univ., Dallas, Univ. of the South, Tennessee, Columbia Univ. and Univ. of Texas Law School; U.S. Air Force 1950-53; admitted to Texas Bar 1955; Asst. Gen. Counsel, Dem. Policy Cttee., U.S. Senate 1956-59, Assoc. Counsel 1959-61, Gen. Counsel 1961-63; Deputy Under Sec. for Int. Affairs, Dept. of Army 1963-64; Asst. Sec. of State for Educational and Cultural Affairs 1964-65; Special Asst. and Counsel to Pres. Johnson 1965-69; Special Counsel to the Pres. 1966-69; Vice-Chair. John F. Kennedy Center for Performing Arts 1969-76, Gen. Counsel 1977-; private law practice, Washington, D.C. 1969-; Chair. Task Force on Domestic Policy, Democrat Advisory Council of Elected Officials 1974. *Publication:* A Political Education 1972. *Address:* 1660 L Street, N.W., Washington, D.C. 20036 (Office); 30 W. Irving Street, Chevy Chase, Md. 20015, U.S.A. (Home).

McQUEEN, Steve; American film actor; b. 24 March 1930, Slater, Mo.; m. 2nd Ali MacGraw 1973; ed. Boys' Republic in Chino, Calif., Neighborhood Playhouse and Uta Hagen-Herbert Berghof Dramatic School; fmrly. held various temporary jobs and served in U.S. Marine Corps; stage appearances 1952-58 included Peg O' My Heart (with Margaret O'Brien), Member of the Wedding, Time Out for Ginger, and in The Gap and Hatful of Rain on Broadway; TV series include Wanted—Dead or Alive; since 1958 has worked only on films. *Films include:* Never So Few 1959, The Magnificent Seven 1960, The Honeymoon Machine 1961, Hell is for Heroes 1961, The War Lover 1962, The Great Escape 1963, Love with the Proper Stranger 1963, Soldier in the Rain 1963, The Cincinnati Kid 1965, Nevada Smith 1966, Baby the Rain Must Fall 1966, Bullitt 1968, The Thomas Crown Affair 1968, The Reivers 1970, On Any Sunday 1971, Le Mans 1971, Junior Bonner 1972, The Getaway 1972, Papillon 1973, The Towering Inferno 1974, Victory at Entebbe 1976, An Enemy of the People 1976. *Address:* c/o Warner Bros.-Seven Arts, 666 Fifth Avenue, New York, N.Y. 10019, U.S.A.

McRUER, James Chalmers, O.C., LL.D.; Canadian lawyer; b. 23 Aug. 1890, Oxford County, Ontario; s. of John and Mary Chalmers McRuer; m. 1st Mary R. Dow 1919 (deceased); m. 2nd Robena Dow 1949; one s. two d.; ed. Osgoode Law School; called to Bar of Ontario 1914, British Columbia 1926, Alberta 1942; served in Canadian Field Artillery 1916-19; apptd. K.C. 1929; lectured in the Law School 1930-35 (Criminal Procedure); Bencher of the Law Soc. of Upper Canada 1936-44; Royal Comm. on the Penal System of Canada 1936, apptd. to the Court of Appeal of Ontario 1944, Chief Justice of High Court of Justice for Ontario 1945-64; Chair. Royal Comms. on insanity in criminal cases and on sexual psychopathic offenders; Chair. Ont. Law Reform Comm. 1964-66, Vice Chair. 1966-; Royal Commr., Enquiry into Civil Rights (Ont.) 1964-71; Pres. of the Canadian Bar Assen. 1946-47; Hon. LL.D. (Laval, Trent, Toronto and Queen's Univs., Osgoode Hall Law School), Hon. D.C.L. (Univ. of Windsor). *Publications:* The Evolution of the Judicial Process 1957, Trial of Jesus 1964. *Leisure interests:* golf, bridge. *Address:* 9 Deer Park Crescent, Apt. 1005, Toronto, Ont. M4V 2C4, Canada.

McSHANE, Edward James, PH.D.; American mathematician; b. 10 May 1904, New Orleans, La.; s. of Dr. Augustus McShane and Harriet Kenner (Butler) McShane; m. Virginia Haun 1931; one s. (deceased) two d.; ed. Tulane Univ. and Univ. of Chicago; Instructor, Princeton 1933-34, Asst. Prof. 1934-35; Prof. Univ. of Virginia 1935-57, Alumni Prof. 1957-74, Alumni Prof. Emer. 1974-; Nat. Acad. of Sciences, American Philosophical Soc.; Hon. Sc.D. (Tulane); Distinguished Service Award, Math. Assen. of America 1964; Chauvenet Prize 1952. *Publications:* Integration 1944, Exterior Ballistics (with J. L. Kelley and F. V. Reno) 1953, Order-Preserving Maps and Integration Processes 1953, Real Analysis (with T. A. Botts) 1959, Stochastic Calculus and Stochastic Models 1974; various research papers. *Leisure interests:* photography, music. *Address:* Department of Mathematics, University of Virginia, Charlottesville, Va. 22903 (Office); 209 Maury Avenue, Charlottesville, Va. 22903, U.S.A. (Home). *Telephone:* 804-924-7127 (Office); 804-293-8956 (Home).

McSWINEY, James Wilmer; American business executive; b. 13 Nov. 1915, McEwen, Tenn.; s. of James S. and Delia (Conroy) McSwiney; m. Jewel Bellar 1940; one s. one d.; ed. Hume Fogg High School, Nashville; Asst. Sec. and Treas., Brunswick Pulp & Paper Co. (subsidiary of Mead Corpn.) 1944-54; Exec. Asst. to Pres. The Mead Corpn. 1954-57, Vice-Pres. 1957, Group Vice-Pres. and Gen. Man. 1961, Exec. Vice-Pres. 1963, Pres., Chief Exec. Officer and Chair Exec. Cttee. 1968-71, Chair. of Bd. and Chief Exec. Officer 1971-78, Chair. of Bd. and Chair. Exec. Cttee. 1978-. *Leisure interests:* golf, swimming. *Address:* The Mead Corporation, Mead World Headquarters, Courthouse Plaza Northeast, Dayton, Ohio 45463 (Office); 2300 Ridgeway Road, Dayton, Ohio 45429, U.S.A. (Home). *Telephone:* 513-222-6323 (Office); 513-299-3647 (Home).

McTIERNAN, Rt. Hon. Sir Edward A., P.C., K.B.E., B.A., LL.B.; Australian lawyer (retd.); b. 16 Feb. 1892, Glennies, N.S.W.; s. of Patrick McTiernan and Isabella Diamond; m. Kathleen Lloyd 1947; ed. Sydney Univ.; barrister 1916; mem. N.S.W. Legislature 1920-27; Attorney-Gen. 1920-22 and 1925-27; mem. Fed. Parl. 1929-30; Justice of High Court of Australia 1930-76; Privy Chamberlain of Sword and Cape 28. *Leisure interests:* music, literature. *Address:* "Breffni", Chilton Parade, Warrawee, N.S.W., Australia. *Telephone:* 483103.

MACY, John Williams, Jr.; American public administrator; b. 6 April 1917, Chicago, Ill.; s. of John Macy and Juliette Shaw; m. Joyce Hagen 1944; two s. two d.; ed. Wesleyan Univ., Connecticut and Nat. Inst. of Public Affairs, Washington, D.C.; Admin. Aide Social Security Bd., Washington 1939-40; Personnel Specialist, War Dept. 1940-42; Asst. Dir. Civilian Personnel War Dept. 1942-43, 1946-47; Dir. Personnel and Org. Atomic Energy Comm. Los Alamos 1947-51; Asst. to Under-Sec. of Army 1951-53; Exec. Dir. U.S. Civil Service Comm. 1953-58, Chair. 1961-69; Exec. Vice-Pres. Wesleyan Univ., Middletown, Conn. 1958-61, Trustee 1954-59, 1961-74, Vice-Chair. 1969-74; Pres. Corpn. for Public Broadcasting 1969-72; Trustee American Film Inst. 1971-; Treas. 1974-; Public mem. Bd. of Govs., American Stock Exchange, New York 1972-77; Pres. Council of Better Business Bureaus Inc. 1973-74; Asst. to Chair. Devt. and Resources Corpn. 1975-76, Pres. 1976-. *Publications:* Public Service 1971, Faculty Tenure (with W. R. Keast) 1973, To Irrigate a Wasteland 1974. *Leisure interests:* sports, drama, music. *Address:* Development and Resources Corporation, 1629 K Street, N.W., Washington, D.C. 20006 (Office); 1127 Langley Lane, McLean, Va. 22101, U.S.A. (Home). *Telephone:* EL6-6347 (Home).

MADAN, Bal Krishna, PH.D.; Indian banker and economist (retd.); b. 13 July 1911, Sahowala, Punjab; s. of Shivram Madan and Jamnadevi Chhabra; m. Savitri Pahwa 1935; four s.; ed. Univ. of Punjab, Lahore; Lecturer in Econs., Univ. of Punjab 1936-37; Officer for Enquiry into Resources, Punjab Govt. 1937-39; Econ. Adviser to Punjab Govt. 1940-41; Dir. of Research, Reserve Bank of India, Bombay 1941-45; Sec. of Indian del. to Bretton Woods 1944; Deputy Sec. Indian Tariff Bd. 1945; Indian Legis. Ass. and Ass. Cttee. on Bretton Woods Agreement 1946; Alt. Exec. Dir., IMF 1946-48, IBRD 1947-48; Exec. Dir. IMF 1948-50, 1967-71; mem. Indian Del., First Commonwealth Finance Ministers' Conf. London 1949; UN Cttee. on Domestic Financing of Econ. Devt. 1949; Econ. Adviser to Reserve Bank of India 1950; mem. Finance Comm., Indian Govt. 1952; Taxation Enquiry Comm. 1953-54; Experts Group on UN Special Fund for Econ. Devt. 1955; Principal Adviser to Reserve Bank of India 1957, Exec. Dir. 1959, Deputy Gov. 1964-67; Governing Body Indian Investment Centre 1960-67; Dir. Industrial Finance Corpn. of India 1961-64, Life Insurance Corpn. of India 1964-67; Chair. Steering Group Wages, Incomes and Prices Policies 1964-66; Pres. Indian Econ. Assen. 1961; Vice-Chair. Industrial Devt. Bank of India 1964-67; Chair. Bonus Review Cttee., Indian Govt. 1972-74; Chair. Man.

Devt. Inst. 1973-; mem. Governing Body, Nat. Council of Applied Econ. Research 1975-. *Publications:* India and Imperial Preference—A Study in Commercial Policy 1939, Aspects of Economic Development and Policy 1964, Real Wages of Industrial Labour in India 1977, Report of the Study of Debt-Equity Norms 1977. *Leisure interests:* golf, reading. *Address:* F-45 South Extension, Part I, Ring Road, New Delhi 110049, India.

MADARIKAN, Hon. Charles Olusoji; Nigerian judge; b. 19 Feb. 1922, Lagos; s. of Rev. and Mrs O. J. Madarikan; m. Miss T. O. Craig 1951; three s. two d.; ed. C.M.S. Grammar School, Lagos, Higher Coll., Yaba, Inns of Court School of Law, London; called to the Bar, Lincoln's Inn 1948; Crown Counsel 1949-56, Sr. Crown Counsel 1956; Legal Sec. S. Cameroons 1957-58; Chief Registrar Supreme Court of Nigeria 1958-59; Dir. of Public Prosecutions, W. Nigeria 1959-60; Judge W. Nigeria High Court 1960-67; Justice of Supreme Court of Nigeria 1967-72, 1975-77; Pres. Western State Court of Appeal 1972-75; Pro-Chancellor and Chair. Council, Univ. of Ife 1975-76; Deputy Chair. Ogun State Exec. Council 1978-79; Commr. for Agric. and Natural Resources 1978, for Finance and Econ. Devt. 1978-79; Part-time mem. Police Service Comm. 1978–; Commdr. Order of the Niger 1978. *Publications:* selected judgements of the Federal Supreme Court of Nigeria 1957, 1958, Brett and MacLean's Criminal Law and Procedure of the Six Southern States (2nd edn.). *Leisure interests:* golf, gardening. *Address:* P.O. Box 7033, Lagos, Nigeria. *Telephone:* Lagos 846940.

MADDOCKS, Arthur Frederick, C.M.G., M.A.; British diplomatist; b. 20 May 1922, Stockport, Cheshire (now Greater Manchester); s. of Frederick William and Celia Elizabeth (Beardwell) Maddocks; m. Margaret Jean Crawford Holt 1945; two s. one d.; ed. Manchester Grammar School, Corpus Christi Coll., Oxford; Army Service 1942-46; Foreign (later Diplomatic) Service 1946-; served Washington, D.C. 1946-48, Foreign Office 1949-51, Bonn, Fed. Repub. of Germany 1951-55, Bangkok, Thailand 1955-58, Del. to OEEC 1958-60, Foreign Office 1960-64, Del. to EEC 1964-68, Hong Kong 1968-72, Ottawa 1972-76; Amb. to OECD 1977-. *Address:* British Delegation to the Organization for Economic Co-operation and Development, 19 rue de Franqueville, 75016 Paris, France. *Telephone:* 524-9820.

MADDOX, Lester Garfield; American former state governor, b. 30 Sept. 1915; industrial supervisor 1934; restaurant, then grocery shop, proprietor; Gov. of Georgia 1967-71; Lieut-Gov. 1971-75; American Independent Party cand. in Presidential election 1976; Hon. mem. various Georgian asscns.; Democrat. *Address:* Windine River Drive, Nebraska, Atlanta, Ga. 30338, U.S.A.

MADGWICK, Sir Robert Bowden, O.B.E., M.EC., D.PHIL.; Australian fmr. broadcasting executive; b. 10 May 1905, N. Sydney, N.S.W.; s. of late R. C. Madgwick; m. 1st Ailsa M. Aspinall 1937 (died 1967), three d.; m. 2nd Mrs. Nance McGrath 1971; ed. N. Sydney Boys' High School, Univ. of Sydney and Balliol Coll., Oxford; Lecturer in Econ. History, Univ. of Sydney 1936-40, Sec. of Extension Bd. 1937; Dir. Australian Army Educ. 1941-46; Warden, New England Univ. Coll. 1947-54; Vice-Chancellor, Univ. of New England 1954-66; Chair. Australian Broadcasting Comm. 1967-73, N.S.W. Advisory Cttee. on Cultural Grants 1968-75, Australian Frontier 1974-76; Hon. D.Litt. (Sydney, Newcastle (N.S.W.), New England), Hon. LL.D. (Queensland). *Publications:* Immigration into Eastern Australia 1788-1851, Outline of Australian Economics (with E. R. Walker). *Leisure interests:* reading, fishing, gardening. *Address:* 3 Collins Road, St. Ives, N.S.W. 2075, Australia.

MADIA, Chunilal Kalidas; Indian writer; b. 12 Aug. 1922; ed. Bhagwatsinhji High School, Dhoraji, Gujarat, and H.L. Coll. of Commerce, Ahmedabad; writes mainly in Gujarati; Editorial Staff Prabhat and Navsaurashtra 1942-44; Editor Varta (short story monthly) 1943; Editorial Staff, Janmabhoomi Group of Newspapers, Bombay 1945-50; Language Editor, U.S. Information Service, Bombay 1950-62; now Editor Ruchi (literary and cultural magazine); Literary Editor Sandesh (Gujarati daily); Official Del. 35th PEN Congress of World Writers, Ivory Coast 1967; Narmad Gold Medal for Best Play Writing 1951; Ranajitram Gold Medal for Outstanding Creative Writing 1957; numerous other prizes. *Publications:* (in Gujarati): novels: Vyajano Varas, Velavelani Chhanyadi, Liludi Dharati, Kumkum Ane Ashaka; short stories: Ghooghavatan Pur, Padmaja, Champo Ane Kel, Tej Ane Timir, Roop-Aroop, Antasrota; plays: Rangada, Vishavimochan, Raktatilak, Shoonyashesh; poems: Sonnet (collected sonnets); criticism: Granthagarima, Shahamrig, Suvarnamrig; in Malayalam: Gujarati Kathakal. *Address:* B-213, Chandralok, Manav Mandir Road, Malabar Hill, Bombay 6, India. *Telephone:* 36-8245.

MADIGAN, Russel Tullie, O.B.E., M.E., LL.B., F.S.A.S.M.; Australian business executive; b. 22 Nov. 1920; ed. Univ. of Adelaide; joined Zinc Corpn. 1946; travelling scholarship in Canada and U.S.A. 1947-49; Underground Man. Zinc Corpn. Ltd., NBHC Ltd. 1956-59; Gen. Man., Gen. Mining Div., Conzinc Rio Tinto Australia Ltd. 1960-64, Dir. 1968-; Man. Dir. Hamersley Iron 1965-71, Chair. 1971-; Chair. Blair Athol Coal Pty. Ltd. 1971-, Interstate Oil Ltd. 1972-, Hamersley Holdings Ltd.; Dir. Rio Tinto Zinc Corpn, Ltd. 1971-, Commercial Union Assurance Co. 1969-, Australian Mines and Metals Assn. 1971-; mem. Australian-Japan Business Co-operation Cttee., Pacific Basin Econ. Council, Trade Devt. Council. *Address:* Hamersley Holdings Ltd., 95 Collins Street, Melbourne, Victoria (Office); 60 Broadway, East Camberwell, Victoria, Australia (Home).

MAEDA, Shichinoshim; Japanese business executive; b. 20 Oct. 1901; s. of Shichinojoo and Matsue Maeda; m. Tane Mase 1927; three d.; ed. Tokyo Univ.; Pres., Fuji Electric Co., Ltd. until 1974, Chair. 1974-78, Dir. and Counsellor June 1978-. *Leisure interest:* golf. *Address:* Fuji Electric Co., Ltd. 1-1, Tanabeshinden, Kawasaki City, Kanagawa Prefecture, Japan.

MAEGRAITH, Brian Gilmore, C.M.G., T.D., M.B., B.S., F.R.C.P. (L. & E.), F.R.A.C.P., D.PHIL.; Australian university professor; b. 26 Aug. 1907, Adelaide; s. of A. E. R. Maegraith; m. Lorna Langley 1934; one s.; ed. St. Peter's and St. Mark's Colls., Univ. of Adelaide, Magdalen and Exeter Colls., Univ. of Oxford; Medical Fellow and Tutor in Physiology, Exeter Coll., Oxford 1934-40; Univ. Lecturer and Demonstrator in Pathology, Oxford 1937-44, Dean of Medical School 1938-44; Lieut.-Col. R.A.M.C., O.C. Malaria Research Unit, War Office 1939-45; mem. Medical Research Council Malaria Cttee. 1943-46; Tropical Medicine Research Bd. (Medical Research Council) 1959-69, Council Royal Soc. of Tropical Medicine 1947-51, Vice-Pres. 1949-51, 1957-69, Pres. 1969-71; Dean of School, Liverpool School of Tropical Medicine 1944-75, Vice-Pres. 1975-, Prof. Tropical Medicine 1944-72, Prof. Emer. 1972-; Consulting Physician in Tropical Medicine, Royal Infirmary, Liverpool; Nuffield Consultant in Tropical Medicine, W. Africa 1949-; Consultant Faculty of Tropical Medicine, Bangkok 1959-, and S.E. Asian Int. Centre for Tropical Medicine 1965-; Chair. Council of European Insts. of Tropical Medicine 1969-72; Maurice Bloch Lecturer, Glasgow, Heath Clark Lecturer, London 1970; Medical Research Council of Chemotherapy Cttee. 1953-; hon. mem Belgian, American and German Societies of Tropical Medicine; Hon. D.Sc. (Bangkok), Emer. M.D. (Athens); Chalmers Gold Medal, Royal Soc. of Tropical Medicine 1951, Le Prince Medal, American Society of Tropical Medicine 1955, Bernhard Nocht Medal (Hamburg) 1957, Mary Kingsley Medal 1973; Kt. Order of St. Lazarus of Jerusalem 1977; Hon. Fellow, St. Mark's Coll. 1956. *Publications:* Pathological Processes in Malaria 1948, Clinical Tropical Diseases 1953 (6th Edn. 1976), Tropical Medicine for Nurses 1954 (4th Edn. 1975), Clinical Methods in Tropical Medicine 1962, Exotic Diseases in Practice 1965, One World 1973. *Leisure interests:* music, painting, writing. *Address:* School of Tropical Medicine, Pembroke Place, Liverpool, L3 5QA (Office); 23 Eaton Road, Liverpool 19, England (Home). *Telephone:* 051-709 9393; and 051-427 1133.

MAEKAWA, Kunio, B.ENG.; Japanese architect; b. 14 May 1905, Niigata City; m. Miyo Miura 1945; ed. Tokyo Imperial Univ.; worked in Le Corbusier's office, Paris 1928-30, Antonin Raymond's office, Tokyo 1930-35; Pres., Kunio Maekawa Architect's Office 1935-; Prof., Nihon Univ., Tokyo; Pres. Japan Architects Assn. 1959-62; mem. Japanese Del., Exec. Cttee. of Int. Union of Architects 1959-60; numerous prizes. *Buildings include:* Yokohama Cultural Centre 1952, Kanagawa Prefectural Library 1954, Japanese Pavilion, Brussels World Fair 1958, Kyoto Cultural Centre 1959, Gakushin Univ. 1960, Tokyo Metropolitan Festival Hall 1961, Saitama Cultural Centre 1966, Saitama Prefectural Museum 1971, Museum für Ostasiatische Kunst, Cologne 1977. *Leisure interests:* music, reading. *Address:* 8 Honshio-cho, Shinjuku-ku, Tokyo (Office); Kami-Osaki 3-10-59, Shinagawa-ku, Tokyo, Japan (Home). *Telephone:* Tokyo 351-7101 (Office).

MAEO, Shigesaburo; Japanese politician; b. 10 Dec. 1905, Shumiyoshi-cho, Miyazu-shi, Kyoto Prefecture; s. of Shosuke and Tomi Maeo; m. Shizuko Maeo 1939; no c.; ed. Faculty of Law, Tokyo Imperial Univ.; fmr Dir. Taxation Bureau; Pres. Mint Agency of Finance Ministry; Vice-Chair. Policy Affairs Research Council of Liberal Party; fmr. Sec.-Gen. Liberal Dem. Party, now Adviser; Chair. Local Admin. Cttee., Foreign Affairs Cttee. House of Reps.; fmr. Minister of Int. Trade and Industry; State Minister, Dir.-Gen. Hokkaido Devt. Agency; Minister of Justice 1971-72; mem. House of Reps. (Speaker 1973-74). *Publications:* include Zei no zuihitsu shu (Essays on Taxation), Seijika Saijiki (Memoirs of Statesman), Seijika Tsurezuregusa (Gleanings from My Leisure Hours Statesman), Shin keizai seichoron to shin heiwashugi (The New Economic Growth Doctrine and the New Pacificism), Mat-

surigoto no Kokoro (The Essence of Politics). *Leisure interests:* go, reading and music. *Address:* 1-10-22, Shoto, Shibuya-ki, Tokyo, Japan (Home). *Telephone:* 467-7597.

MAFATLAL, Arvind N.; Indian industrialist; b. 27 Oct. 1923, Ahmedabad; s. of late Navinchandra Mafatlal and of Vijayalaxmi N.; m. Sushila A. Mafatlal; two s. one d.; ed. St. Xavier's High School and Sydenham Coll. of Commerce and Econs., Bombay; joined Mafatlal Group of Cos. 1941, Chair. 1955-; Dir. Tata Eng. and Locomotive Co. Ltd., Bombay Burmah Trading Corpn. Ltd., Industrial Investment Trust Ltd. and others; Chair. Nat. Organic Chem. Industries Ltd., Polyolefins Industries Ltd., Hoechst Dyes and Chemicals Ltd., Nat. Machinery Mfrs. Ltd.; Chair., Man. Trustee Shri Sadguru Seva Singh Trust; Trustee Bharatiya Agro-Industries Foundation, Uruli Kanchan; employers' Del to 43rd Session, ILO Conf.; [illegible] Maharashtra and Gujarat State Advisory Councils of Industries; Chair. Western Regional Cttee. of All-India Council of Tech. Educ.; Durga Prasad Khaitan Memorial Gold Medal 1966, Business Leadership Award (Madras Man. Assn.) 1971. *Leisure interest:* golf. *Address:* Mafatlal House, Backbay Reclamation, Bombay 400 020 (Office); 10 Altamount Road, Bombay 400 026, India (Home). *Telephone:* 29-11-99 (Office); 36-83-50 (Home).

MAGA, Hubert Coutoucou; Benin politician; b. 10 Aug. 1916; ed. Ecole Normale de Gorée; headmaster of school at Nabitingou until 1951; Gen. Counsellor of Dahomey 1947; Grand Counsellor of Art 1948-57; Deputy for Dahomey to French Nat. Ass. 1951-58; Under-Sec. for Labour, Gaillard Cabinet; Minister of Labour in Dahomey 1958-59, Premier 1959-63, Pres. 1960-63; under restriction 1963-65; Head of State, also Minister of Interior and of Defence 1970-72; under house arrest 1972; [illegible] Dahomeyan Democrat Group; awards incl. Mérite Social and Etoile Noire de Bénin. *Address:* Cotonou, Benin.

MAGALHÃES, Maj.-Gen. Juracy Montenegro; Brazilian diplomatist; b. 1905; ed. Lyceu, State of Ceará, Realengo Mil. Acad., Gen. Staff School and Escola Superior de Guerra; fmr. Army Officer; Mil. Attaché, Washington 1953-54; Fed. Interventor, State of Bahia 1931-34; Gov. of Bahia 1935-37, 1959-63; mem. for Bahia, Fed. Chamber of Deputies 1946-50, Fed. Senator for Bahia 1954, 1958-; Pres. Cia. Vale do Rio Doce (iron ore exports) 1951-52; Pres. Petrobrás 1954; Chair. Nat. Dem. Union (UDN) 1957-58; Amb. to United States 1964-65; Minister of Justice and Interior 1965-66, of Foreign Affairs 1966-67; [illegible] decorations. *Publications:* Defendendo o [illegible] Govêrno (In Defence of my Government), Petróleo, Fonte de Libertação ou de Escravidão (Petroleum, Source of Liberation or of Enslavement). *Address:* Ministério dos Assuntos Exteriores, Palácio do Itamaraty, Esplanada dos Ministérios, Brasília D.F., Brazil.

MAGALHÃES MOTA, Joaquim Jorge; Portuguese lawyer and politician; b. 17 Nov. 1935, Santarem; s. of Eloi Saraiva da Mota and Miquelina Magalhães Mota; m. Maria Manuela Almeida Martins de Silva Magalhães Mota 1962; [illegible] s. two d.; ed. Lisbon Univ.; Tech. Asst., Internal Colonization Inst. 1961, 1964-68; Head of Office of Sec. of State for Industry 1969-71; [illegible] Parl. (Liberal Wing) 1969-73; Founder of SEDES (political assen.) 1969; Chair. of Bd. Organização e Gestão de Empresas (OGE) 1973; Minister of Internal Admin. May-July 1974, without Portfolio July 1974-75, of Internal Trade 1975-76; Popular Dem. Party. *Publications:* Colonização Interna e Emparcelamento 1964, A Quota de Individuo Casado em Regime de Comunhão de Bens, [illegible] Sociedade por Quotas, em que o Pacto Consagra Clausulas de Intransmissibilidade 1970, Ser ou Não ser Deputado 1973, Encontro de Reflexão Política. *Leisure interests:* reading, cinema, swimming, pipe collection. *Address:* Rua Filipe Folque, No. 5, 1 Esq., Lisbon 1, Portugal. *Telephone:* 47927.

MAGALHÃES PINTO, José de; Brazilian banker, business executive and politician; b. 28 June 1909, Santo Antônio do Monte; m. Berenice Catão de Magalhães Pinto 1932; three s. three d.; ed. Free School of Law, Belo Horizonte; Dir. Banco da Lavoura, Minas Gerais 1929-35; Pres. Assoc. Commercial, Minas Gerais 1935-37; Pres. Fed. Comércio, Minas Gerais 1937; Founder and Chair. of Bd. Banco Nacional de Minas Gerais 1944; Fed. Deputy 1940-60; Gov. of Minas Gerais 1960-65; [illegible] Chamber of Deputies 1945-60, Nov. 1966-; Minister of Foreign Affairs 1967-69; Pres. União Democrática Nacional (UDN); [illegible] Senate 1970-; Prof. at Econ. Univ. of Minas Gerais; Dr. h.c.(Univ. Rural de Viçosa), [illegible] Brazilian and foreign decorations. *Address:* Avenida Atlântica 2016, Apt. 401 Copacabana ZC-07, Rio de Janeiro, RJ; and SQS 309, BL C, ap. 402, 70.000 Brasília D.F., Brazil. *Telephone:* 236-4838 (Rio de Janeiro); 43-8460 (Brasília).

MAGALOFF, Nikita; Swiss pianist; b. 8 Feb. 1912, St. Petersburg (now Leningrad), Russia; [illegible] of Dimitri and Barbara Magaloff; m. Irène Szigeti 1939; one d.; ed. Conservatoire nat. de musique, Paris and with Joseph Szigeti; Prof. of Virtuosity, Geneva Conservatoire 1949-59; numerous concerts all over the world since 1939, including two tours of S. America and tour round the world 1960; particularly well known as Chopin interpreter; [illegible] invitations to play in the major European int. music festivals; frequent mem. of jury in European Int. Piano Competitions. *Compositions include:* Sonatina for Violin and Piano, Toccata for Piano, and Songs. *Leisure interests:* sightseeing, chess. *Address:* 1815 Baugy/Clarens (Vaud), Switzerland. *Telephone:* (021)-613186.

MAGARIÑOS, Gustavo; Uruguayan international civil servant; b. 31 Dec. 1922, Montevideo; s. of Mateo M. Pittaluga and Margarita M. de los Ríos; m. Ivonne Pagani 1947; [illegible] s. one d.; ed. Univ. de la República; Econ. Counsellor, Uruguayan Embassy, London, and Econ. Adviser, Ministry of Foreign Affairs 1954-59; Dir. of Commercial and Econ. Dept., Uruguayan Embassy, Buenos Aires 1959-62; Dir. of Dept. of Negotiation, Latin American Free Trade Assen. (LAFTA) 1962, Asst. Exec. Sec. LAFTA 1962-67, Perm. Exec. Sec. 1967-73; Gen. Dir. Dept. of Trade 1974-76; Amb. to Argentina and Rep. to River Plate Basin Cttee. 1976-78; Amb. to EEC, Belgium and to Luxemburg 1979-. *Leisure interests:* sport, classical literature. *Address:* 437 avenue Louise, Bruxelles 1050, Belgium.

MAGARIÑOS D., Victor; Argentine painter; b. 10 Sept. 1924; ed. Escuela nacional de artes visuales; founded Grupo Jóven 1946; First one-man exhbn. Galería Juan Cristóbal 1950, also at Inst. de Arte Moderno 1950-51, Pres. Argentine Cttee. of Int. Assen. for Plastic Arts, UNESCO 1958; Scholarship to France 1951, to U.S.A. 1965; represented at Biennali: São Paulo 1951-55, Venice 1956; also at Concrete Art Exhbn. Museum of Modern Art 1963, El Nuevo Arte Argentino, Walker Art Center, Minneapolis, A Decade of Latin-American Art, Guggenheim Museum 1965-66, Museum of Modern Art, New York, Museo Nacional de Bellas Artes, Museo de Arte Moderno, Buenos Aires. *Address:* c/o Museo de Arte Moderno, Teatro Municipal General San Martín, Corrientes 1530, Buenos Aires, Argentina.

MAGHRABI, Mahmoud Sulaiman; Libyan politician; b. 1935; ed. George Washington Univ., U.S.A.; helped to organize strikes of port workers June 1967, for which he was sentenced to four years imprisonment and deprived of Libyan nationality; released Aug. 1969; following the coup of Sept. 1969 became Prime Minister, Minister of Finance and Agric., and of Agricultural Reform until Jan. 1971; Perm. Rep. to UN 1971-72; Amb. to UK 1973-77. *Address:* c/o Ministry of Foreign Affairs, Tripoli, Libya.

MAGHUR, Kamel Hassan; Libyan lawyer and diplomatist; b. 1 Jan. 1935, Tripoli; m.; five c.; ed. Univs. of Cairo, Paris and Grenoble; Asst. Counsellor, Admin. of Legislation, Tripoli 1959-60; Counsellor, Court of Cassation 1960-69; Counsellor, Supreme Court of Libya 1971-72; Perm. Rep. to UN 1972-75. *Address:* c/o Ministry of Foreign Affairs, Tripoli, Libya.

MAGLOIRE, Paul; Haitian officer and politician; b. 1907; ed. Cap Haiti High School; taught at Lycée National Philippe Guerrier, Cap Haiti 1929-30; entered army as cadet 1931; Lieut. 1931; Head of Mil. School 1934; Asst. District Commdr., Cap Haiti 1935-37; Maj. 1938; District Commdr. 1938-41; Chief of Police, Port-au-Prince, and Commdr. of Palace Guard 1944; [illegible] provisional Mil. Govt. and Minister of Interior 1946 and 1950; Pres. of Haiti 1950-56; Orders of Honneur et Mérite, Brevet de Mérite, etc. *Address:* Port-au-Prince, Haiti.

MAGNET, Alejandro; Chilean writer, journalist and diplomatist; b. 28 Oct. 1919; ed. Universidad Católica de Chile; founded magazine Política y Espíritu 1945, Literary Critic 1945-52, Commentator on Int. Political Affairs 1952-60; Asst. Editor La Voz 1960-62; Commentator on Int. Affairs, Radio Chilena 1954-62, TV Channel 13 1962-64; Int. Political Affairs Editor El Sur (newspaper), Concepción 1958-62, Mensaje (magazine) 1959-64; Amb. to OAS 1964-70. *Publications:* Nuestros Vecinos Justicialistas 1953, El Padre Hurtado 1954, Nuestros Vecinos Argentinos 1956; children's books: El Secreto Maravilloso 1944, La Espada y el Canelo 1958. *Address:* c/o Ministry of Foreign Affairs, Santiago, Chile.

MAGNUSON, Warren Grant; American lawyer and politician; b. 12 April 1905, Moorhead, Minnesota; m. Jermaine Elliot Peralta Magnuson; [illegible] d.; ed. Public School, Minnesota, Univ. of North Dakota, North Dakota State Univ. and Univ. of Washington; Special Prosecuting Attorney 1931; elected to Washington State Legislature 1933-34; Asst. U.S. Dist. Attorney 1934; Prosecuting Attorney, King County, Washington 1934-36; served in House of Reps. 1937-44; Senator from Washington 1944-, Chair. Senate

Appropriations Cttee. 1978-; served [redacted] Lieut.-Commdr. in U.S.N. during Second World War; Hon. D.Jur.(Gonzaga Univ.) 1966, (Seattle) 1967, (St. Martin's Coll.) 1967, (Gallaudet Coll.) 1972, (Alaska) 1973; Hon. Dr. Public Admin. (Puget Sound) 1967; Hon. Dr. rer. Pol. (Univ. of the Pacific) 1970; awards include Metropolitan Bd. of Trade World Trade Award 1961, American Coll. of Cardiology Distinguished Service Award 1972, Albert Lasker Award for Public Service in Health 1973, Nat. Consumer League Consumer of the Year 1978. Democrat. *Publications:* The Dark Side of the Marketplace (with Jean Carper) 1968, How Much for Health? (with Elliot A. Segal) 1974. *Address:* 127 Senate Office Bldg., Washington, D.C. 20510, U.S.A.

MAGNUSSEN, Einar, CAND. ECON.; Norwegian economist and politician; b. 5 June 1931, Ålesund; s. of Gustav Magnussen and Selma Giske; m. Aase Bjørg Andersen 1956; two s. [redacted] d.; ed. Oslo Univ.; Economist, Norges Bank 1957-60; worked on team preparing Norwegian Econ. Long Term Programme, Ministry of Finance 1960-61; Economist, IMF 1962-65; Head, Monetary Policy Div., Norges Bank 1965-68; Econ. Adviser, Bank of Tanzania 1968-70; Dir. Monetary Policy Dept., Norges Bank 1970-73; Under-Sec. of State, Ministry of Commerce and Shipping 1973-74, Minister 1974-76; Exec. Dir., World Bank (IBRD) 1976-79; Man. Dir. Norwegian Export Council April 1979-. *Address:* Norges Eksportråd, Drammensveien 40, Oslo 2 (Office); Vivøya, Box 62, Oslo 1, Norway (Home). *Telephone:* (02) 114030 (Office); (02) 287180 (Home).

MAGYAR, Dr. Imre; Hungarian gastroenterologist, diabetologist and novelist; b. 14 Oct. 1910, Losonc (Lucenec), Slovakia; s. of László Magyar and Adel Deutsch; m. Eva Fodor 1944; one s. three d.; ed. Univ. Medical School, Budapest; Dir., Postgraduate School of Medicine 1960-65; Prof. and Dir. 1st Medical Clinic of Semmelweis Univ. Medical School, Budapest 1965-; bd. mem. Scientific Council on Public Health 1965-70; [redacted] Expert Cttee. for Diabetics of WHO 1962-; Pres. Hungarian Diabetic Assn., Hungarian Gastroenterological Soc., Hungarian Soc. of Internal Med.; Sec. "Korányi Sándor" Scientific Assn. 1964-72; mem. Int. Assn. for Study of Liver, European Assn. for Study of Diabetes, Int. Soc. of Internists, European Assn. of Internal Medicine; mem. bd. of Diabetologia (Berlin—New York), Zeitschrift für Gastro-Enterologie (Munich), Zeitschrift für Stoffwechsel und Verdauungskrankheiten (Rostock), Orvosképzés (Budapest), Hungarian Archives of Medicine (chief editor). *Publications:* Textbook on Medicine 10th edition 1977, Differential Diagnosis of Internal Diseases 1960, 1967, 1976, Diseases of the Liver and Biliary Ducts (also in German and Russian) 1960, Diabetes Mellitus 1964, Cosmic Resentment (essays) 1968, 1969, Style Exercise (essays) 1971, Korányi Sándor (biography), Instructive Journey (novel) 1970, Ruth (novel) 1971, Judith (novel) 1973, Essentials of Internal Medicine 1975, Doctor Behrens et al. (essays) 1979. *Leisure interests:* music, reading. *Address:* 1137 Budapest, Radnóti Miklós-utca 21/b, Hungary. *Telephone:* 295879.

MAHATHIR BIN MOHAMED, Dr.; Malaysian politician; b. 20 Dec. 1925, Alor Star; ed. Sultan Abdul Hamid Coll. and Univ. of Malaya in Singapore; Medical Officer, Kedah and Perlis 1953-57; private practice 1957-64; [redacted] UMNO to 1969, 1972-, mem. Supreme Council 1972-; mem. House of Reps. for Kota Star Selatan 1964-69, for Kubang Pasu 1974-; mem. Senate 1973; Chair. Food Industries of Malaysia Sdn. Bhd. 1973; Minister of Educ. 1974-77, of Trade and Industry Dec. 1977-; Deputy Prime Minister March 1976-. *Publications:* The Malay Dilemma 1969. *Address:* Office of the Deputy Prime Minister, Kuala Lumpur, Malaysia.

MAHDAVI, Fereidun, PH.D.; Iranian economist; b. 1933; ed. Hamburg Univ.; Financial and Econ. Adviser, Housing Org.; Economist Econs. Dept.; staff mem. Investment and Public Relations Dept.; Man. Econs. Dept., Asst. to Man. Dir., Industrial and Mining Devt. Bank of Iran, later Man. Dir. IMDBI; Minister of Trade 1974-76, of State 1976-77.

MAHDI, Sadiq El (Since 1978 known as **Sadiq Abdul Rahman**); Sudanese politician; b. 1936; great grandson of Imam Abdul-Rahman El Mahdi, s. of late Siddik El Mahdi; ed. Comboni Coll., Khartoum and St. John's Coll., Oxford; Leader, Umma Mahdist Party 1961; Prime Minister 1966-67; arrested on a charge of high treason 1969; exiled April 1970; returned to Sudan [redacted] and arrested Feb. 1972, released April 1974; exiled 1974-77, led unsuccessful coup against Pres. Nemery July 1976, returned to Sudan Sept 1977; reconciliation with Pres. Nemery 1977; [redacted] Sudanese Socialist Union (SSU) March 1978. *Publication:* Problems of the South Sudan.

MAHDI AL TAJIR, Mohamed; Dubai administrator; b. 26 Dec. 1931, Bahrain; m. Zohra Al-Tajir 1956; five s. one d.; ed. Bahrain Govt. School and Preston Grammar School, Lancs., England; Department of Port and Customs, Govt. of Bahrain, Dir. 1955-63; Dir. Dept. of His Highness the Ruler's Affairs and Petroleum Affairs March 1963-; Dir. Nat. Bank of Dubai Ltd. 1963-; Dir. Dubai Petroleum Co. April 1963-; Dir. Dubai Nat. Air Travel Agency Jan. 1966-; Dir. Qatar-Dubai Currency Board Oct 1965-73; Chair. South Eastern Dubai Drilling Co. April 1968-; Dir. Dubai Dry Dock Co. 1973-; Amb. of the United Arab Emirates to U.K. 1972-, to France 1972-77; Hon. Citizen of State of Texas, U.S.A. 1963. *Address:* Embassy of the United Arab Emirates, 30 Prince's Gate, London, SW7 1PT, England; P.O. Box 207, Dubai, United Arab Emirates.

MAHFUZ, Nagib; Egyptian author; b. 11 Dec. 1911; ed. Univ. of Cairo; Civil servant 1934-; successively with Univ. of Cairo, Ministry of Waqfs, Dept. of Arts and Censorship Bd.; fmr Dir.-Gen., now Adviser, Cinema Org. of Egypt; State Prize for 1st vol. Bain al-Kasrain 1957. *Publications:* novels: Khan al Khalili 1946, Midaq Alley 1947, The Castle of Desire (Vol. I) 1956, Between the Two Castles (Vol. II) 1957, The Sugar Bowl (Vol. III) 1957, (trilogy Bain al-Kasrain), The Thief and the Dogs 1961, Quails in Autumn 1962, The Road 1964, The Beggar 1965, Gossip by the Nile 1966, Miramar 1967; Short story collections: God's World 1963, At the Sign of the Black Cat 1969, Under the Umbrella 1969, A Story Without Beginning or End 1971. *Address:* c/o Cinema Organization, TV Building, Maspero Street, Cairo, Egypt.

MAHGOUB, Mohammed Ahmed; Sudanese lawyer and politician; b. 1908; ed. Gordon Coll. and Khartoum School of Law; practising lawyer; fmr. [redacted] Legis. Ass.; accompanied Umma Party Del. to UN 1947; [redacted] Constitution Amendment Comm.; non-party candidate in Gen. Election 1954; Leader of the Opposition 1954-56; Minister of Foreign Affairs 1956-58, 1964-65, Prime Minister 1965-66, 1967-69; practising solicitor 1958-64. *Publications:* Democracy on Trial 1974, and several vols. of poetry (in Arabic). *Address:* 60C Prince's Gate, Exhibition Road, London, S.W.7, England.

MAHINDRA, Keshub, B.SC.; Indian business executive; b. 9 Oct. 1923, Simla; s. of late Kailash Chandra Mahindra and Savitri Mahindra; m. Sudha Y. Varde 1956; three d.; ed. Univ. of Pennsylvania, U.S.A.; Pres. Assn. of Indian Automobile Mfrs. 1964-65, Bombay Chamber of Commerce and Industry 1966-67, Assoc. Chamber of Commerce and Industry 1969-70, Maharashtra Econ. Devt. Council 1969-70; Chair. Indian Council of Trade Fairs and Exhbns. 1964-69, Indian Soc. of Advertisers 1968-71; Chair. Mahindra and Mahindra Ltd., Union Carbide India Ltd., The Indian Hotels Co. Ltd., Indian Aluminium Co. Ltd., Tata Iron and Steel Co. Ltd., Int. Tractor Co. of India Ltd., Otis Elevator Co. (India) Ltd., Bombay Dyeing and Mfg. Co. Ltd., Machinery Mfrs. Corpn. Ltd., WIMCO Ltd., Bombay Burmah Trading Corpn. Ltd., Metal Box Co. of India Ltd.; Chair Bd. of Govs., Indian Inst. of Man., Ahmedabad; Dir. several cos. *Leisure interests:* golf, tennis, photography, reading. *Address:* Mahindra and Mahindra Ltd., Gateway Building, Apollo Bunder, Bombay 400 039 (Office); St. Helen's Court, Pedder Road, Bombay 400 026, India (Home) *Telephone:* 231031 (Office); 364106 (Home).

MAHLER, Dr. Halfdan, M.D.; Danish health official; b. 1923, Vivild; m. Dr. Ebba Fischer-Simonsen; two s.; ed. Univ. of Copenhagen; Planning Officer, Mass Tuberculosis Campaign, Ecuador 1950-51; joined WHO 1951; Sr. WHO Officer attached to Nat. TB Programme, India 1951-61; Visiting Prof., postgraduate medical schools, Rome and Prague 1961-; Chief Medical Officer, Tuberculosis Unit, WHO HQ, Geneva 1962-69, also Sec. to WHO Expert Panel on TB; Dir. Project Systems Analysis 1969; Asst. Dir.-Gen. WHO, responsible for Div. of Family Health, Div. of Org. of Health Services, Div. of Research in Epidemiology and Communication Science 1970-73, Dir.-Gen. 1973-; Hon. LL.D. (Nottingham) 1975, Hon. M.D. (Karolinska Inst., Stockholm) 1977, Hon. Docteur (Univ. des Sciences Sociales, Toulouse) 1977. *Publications:* several publications relating to the epidemiology and control of TB and to the utilization of operational research in health care delivery systems. *Address:* World Health Organization, Avenue Appia, 1211 Geneva 27, Switzerland. *Telephone:* 34-60-61.

MAHMUD HUSAIN, Abul Basher; Bangladesh judge; b. 1 Feb. 1916; s. of late Abdul Mutakabbir Abul Hasan; m. Sufia Begum 1936; three s. five d.; ed. Shaistagonj High School, M.C. Coll., Sylhet, Dacca Univ.; Pleader, Judge's Court, Dacca, 1940-42; Additional Govt. Pleader, Habiganj 1943-48; Advocate, Dacca High Court Bar 1948-51; Attorney, Fed. Court of Pakistan 1951-53, Advocate 1953-58, Sr. Advocate of Supreme Court of Pakistan 1958-65; Asst. Govt. Pleader, High Court of E. Pakistan 1952-56, Sr. Govt. Pleader and later acting Advocate-Gen. of E. Pakistan 1956-65; Judge, High Court of E. Pakistan 1965-72, of Bangladesh

1972, of Appellate Div. of High Court 1972, of Appellate Div. of Supreme Court 1972-75; Chief Justice Nov. 1975-Aug. 1976, Chief Justice of Supreme Court Aug. 1976-; Councillor, Assam Provincial Muslim League 1944-47, All-India Muslim League 1945-47, All-Pakistan Muslim League 1947-55; mem. Constituent Ass. of Pakistan 1949-54, Commonwealth Parl. Assn. 1950-54, Interparl. Union 1950-54, Pakistan Tea Bd. 1951-54, Exec. Council of Dacca Univ. 1952-54, Bar Council of Dacca High Court 1958-66. *Address:* Chief Justice's House, 19 Hare Road, D[illegible] 2, Bangladesh. *Telephone:* 243334 and 281849.

MAHONEY, David; American marketing and business executive; b. 17 May 1923, New York; m. 1st Barbara M[illegible] 1951 (died 1975); [illegible] s. [illegible] d.; m. 2nd Hildegarde Ercklentz Merritt; ed. LaSalle Mil. Acad., Cathedral High School, New York, and Wharton School of Business, Univ. of Pennsylvania; Ruthrauff and Ryan 1946-51; David J. Mahoney Inc. (advertising agency) 1951-56; Pres. Good Humor Corpn. 1956-61; Exec. Vice-Pres. Colgate-Palmolive Co. 1961-66; Pres. Canada Dry Corpn. 1966-68; Pres. and Chief Exec. Officer Norton Simon Inc. 1968-, Chair. 1977-. *Address:* 277 Park Avenue, New York, N.Y. 10017, U.S.A. (Home). *Telephone:* 212-832-1000.

MAHONEY, Hon. Patrick Morgan, P.C., B.A., LL.B.; Canadian politician and judge; b. 20 Jan. 1929, Winnipeg; s. of Paul Morgan Mahoney and Joan Ethel Tracy Patrick; m. Mary A. Sneath 1958; three s. [illegible] d.; ed. Univ. of Alberta; admitted to Alberta Bar 1952; M.P. 1968-72; Parl. Sec. to Minister of Finance 1970-72; Minister without Portfolio Jan.-Oct. 1972; apptd. Q.C. 1972; Judge of Trial Div., Fed. Court of Canada 1973; Judge of Court Martial Appeal Bd. of Canada Nov. 1973-; fmr. Pres. Western Football Conf., Canadian Football League. *Address:* 3 Coltrin Place, Ottawa K1M 0A5, Ont., Canada.

MAHROUG, Smaïl; Algerian economist; b. 21 Oct. 1926, Bougaa; ed. Univ. of Paris; in Morocco 1953-62, active in Front de Libération Nationale (FLN), also Dir. of Planning, Moroccan Govt.; returned to Algeria, Chef de Cabinet of Head of Econ. Affairs, Provisional Govt. 1962; Econ. Counsellor to Pres. 1963-70; Dir.-Gen. Caisse Algérienne de Développement 1963-65; Dir.-Gen. Ministry of Finance 1965-66; Minister of Finance 1970-76; Chair. Union Méditérranéenne de Banques June 1976-. *Address:* Union Méditérranéenne de Banques, 50 rue de Lisbonne, 75008 Paris, France.

MAHTAB, Harekrushna, D.LITT., LL.D.; Indian politician and journalist; b. Nov. 1899, Agarpada, Orissa; s. of Jorgannath Mahtab and Sm. Ohanni Bibi; m. Sm. Subhordra Mahtab 1918; ed. Ravenshaw Coll., Cuttack; joined non-co-operation movement 1921; worker for Indian Nat. Congress 1921-; [illegible] Bihar & Orissa Legis. Council 1924; Editor, Prajatantra and Jhankar; civil disobedience movements 1930, 1932; Pres. Utkal Provincial Congress Cttee. 1930, 1937; organized Inchudi Salt Satyagraha, imprisoned 1930-31, 1932, 1942; [illegible] Congress Working Cttee. 1938-46; Leader, Congress Ass. Party, Orissa; Chief Minister, Orissa State 1946-50, 1956-61; Minister for Commerce and Industry, Govt. of India 1950-52; Sec.-Gen. Congress Parl. Party 1952-55, Deputy Leader 1962-63; Gov. of Bombay 1955-56; [illegible] Lok Sabha 1962-67, Orissa Legis. Ass. 1967-; detained during emergency 1975-76. *Publications:* History of Orissa; three novels, one play. *Leisure interests:* reading, writing stories, novels and articles for magazines and newspapers. *Address:* Ekamra Nivas, Bhuvaneshwar-2, Orissa, India. *Telephone:* 51946.

MAIDEN, Alfred Clement Borthwick, B.A., C.B.E.; Australian business executive; b. 21 Aug. 1922; ed. Taree High School, New England Univ. Coll., Univ. of Sydney; Agricultural Attaché, Washington, D.C. 1951-53; Asst. Dir. Bureau of Agricultural Econs. 1953-56, Dir. 1959-62; Asst. Sec. Dept. of Trade 1956-57; Commercial Counsellor, Washington, D.C. 1957-59; Sec. Dept. of Primary Industry 1962-68; Man. Dir. Int. Wool Secr. 1969-73; Chair. Australian Wool Corpn. and Int. Wool Secr. 1973-. (Died July 1979).

MAIDOU, Henri; Central African Empire banker and politician; fmr. Pres. Banque Centrale des Etats de l'Afrique de l'Ouest; Min. of Nat. Educ., Youth, Sports and Arts -1973; of Nat. Health and Social Affairs 1973-74; Minister of State charged with Town Planning and Territorial Devt. 1974-76, with Nat. Educ. and Educational Reform April-Sept. 1976; Second Deputy Prime Minister, charged with Nat. Educ. and Admin. Reform Sept.-Dec. 1976, with Nat. Educ., Youth, Sports, Arts and Culture 1976-78; Prime Minister July 1978-. *Address:* Office of the Prime Minister, Bangui, Central African Empire.

MAIHOFER, Werner; German politician; b. 20 Oct. 1918, Konstanz; m. Margrit Schiele 1942; five d.; ed. Secondary School, Konstanz and Freiburg Univ.; Prof., Univ. of the Saarland 1955, Dean of Faculty of Law and Econs. 1956-57, Rector 1967-69; Prof. Univ. of Bielefeld 1970, Dir. Centre for Interdisciplinary Research 1971; mem. Bundestag 1972-; Fed. Minister without Portfolio 1972; Fed. Minister of the Interior 1974-78; Dr. h.c. (Nancy) 1968; Grand Cross, Order of Léopold II (Belgium), Grosses Verdienstkreuz 1977; Freie Demokratische Partei (FDP). *Publications:* Der Handlungsbegriff im Verbrechenssystem 1953, Recht und Sein 1954, Rechtsstaat und menschliche Würde 1968, Demokratie im Sozialismus 1968. *Leisure interests:* yachting, skiing, music. *Address:* 5300 Bonn, Fritz Erler Strasse 23, Federal Republic of Germany.

MAILER, Norman Kingsley, B.S.; American writer; b. 31 Jan. 1923, Long Branch, N.J.; s. of Isaac Barnett Mailer and Fanny Schneider; m. 1st Beatrice Silverman 1944 (dissolved 1951), [illegible] d.; m. 2nd Adele Morales 1954 (dissolved 1962), two d.; m. 3rd Lady Jeanne Campbell 1962 (dissolved 1963), [illegible] d.; m. 4th Beverly Rentz Bentley 1963, two s. one d.; m. 5th Carol Stevens, [illegible] d.; ed. Harvard Univ.; served in U.S. Army 1944-46; Co-founder New York weekly Village Voice 1955; mem. Editorial Bd. of Dissent magazine 1953-69; Dir. films: Wild 90 1967, Beyond the Law 1967, Maidstone 1968; Nat. Book Award for Arts and Letters 1969; Pulitzer Prize for non-fiction 1969; 14th Annual Award for outstanding service to the arts, McDowell Colony 1973. *Publications:* The Naked and The Dead 1948, Barbary Shore 1951, The Deer Park 1955 (dramatized 1967), Advertisements for Myself 1959, Deaths for the Ladies (poems) 1962, The Presidential Papers 1963, An American Dream 1964, Cannibals and Christians 1966, Why [illegible] in Vietnam? (novel) 1967, The Armies of the Night 1968, Miami and the Siege of Chicago 1968, Moonshot 1969, A Fire [illegible] the Moon 1970, The Prisoner of Sex 1971, Existential Errands 1972, St. George and the Godfather 1972, Marilyn 1973, The Faith of Graffiti 1974, The Fight 1975, Some Honourable Men 1976, Genius and Lust—A Journey Through the Writings of Henry Miller 1976, A Transit to Narcissus 1978; contributions to numerous magazines. *Address:* P.O. Box 338, Provincetown, Mass. 02657, U.S.A.

MAILLARD, Pierre; French diplomatist; b. 24 June 1916, Laval; s. of Adrien Maillard and Hélène (née Coliette); [illegible] Evelyn George 1943; one s.; ed. Ecole Normale Supérieure; Letters and Law faculties, Paris Univ.; entered diplomatic service 1942, Berne 1942-43, mem. representation of French Liberation Cttee. 1943; Head, French Office for Refugees in Switzerland 1944; Head of Office of Sec.-Gen. for German and Austrian Affairs 1945; Second Sec., London 1946; Ministry of Foreign Affairs 1948; participated in negotiation of Peace Treaty with Austria 1949; First Sec., Vienna 1950; served Secr. of Confs. 1951; Deputy Head of Cen. Admin., Ministry of Foreign Affairs 1953; Head of Levant Service 1954; Political Dir. Council of Europe 1958; Minister, Diplomatic Counsellor to Gen. Secr. of Presidency 1959-64; Asst. Sec.-Gen. for Nat. Defence 1964-68; mem. Board of Dirs. Nat. Centre for Space Studies 1965-69; Amb. to UNESCO 1970-75; Diplomatic Counsellor to the Govt. Jan. 1976-; Officier, Légion d'honneur, Commdr., Ordre Nat. du Mérite, Chevalier des Palmes académiques, Commdr. de l'Etoile Noire. *Leisure interest:* horse riding. *Address:* Ministry of Foreign Affairs, 37 Quai d'Orsay, 75007 Paris (Office); 3 square de Latour-Maubourg, 75007 Paris, France (Home).

MAILLART, Ella; Swiss traveller and writer; b. 20 Feb. 1903, Geneva; d. of Paul and Dagmar Klim; ed. Geneva; travelled Russia, Turkestan, Manchuria, Tibet, Iran, Afghanistan, Ladakh, Yemen, S. Korea, China, etc.; in S. India 1940, Nepal 1951; Fellow Royal Geographical Society London; Hon. mem. Alpine Club, Ski Club G.B.; Sir Percy Sykes Medal 1955. *Publications:* Parmi la jeunesse [illegible] 1932, Des monts célestes aux sables rouges (Turkestan Solo) 1934, Oasis interdites (Forbidden Journey) 1937, Gypsy Afloat 1942, Cruises and Caravans 1942 (published in French, German), The Cruel Way 1947 (published in Dutch, Swedish, French, Spanish and German), Ti-Puss (in English, French and German), The Land of the Sherpas. *Leisure interests:* skiing, sailing, travels, gardening in the Alps. *Address:* 10 [illegible] Vallette, Geneva; and Chandolin Sur Sierre, Switzerland. *Telephone:* 46-46-57 (Geneva).

MAILLIARD, William Somers, B.A.; American diplomatist and politician (retd.); b. 10 June 1917, Calif.; [illegible] of late J. W. Mailliard, Jr. and of Kate P. Mailliard; m. 1st Elizabeth Whinney 1940 (divorced 1954); m. 2nd Millicent Fox 1957; two s. five d.; ed. Taft School, Watertown, Conn., Yale Univ.; Asst. Naval Attaché, London 1939-40; Navy Dept., Washington, D.C. 1941-42; Naval War Coll., Newport, R.I. 1942; 7th Amphibious Force, Pacific Fleet 1943-46; American Trust Co., San Francisco 1946-47; Asst. Dir. Calif. Youth Authority 1947; Republican Cand. for U.S. Congress 1948; Sec. to Earl Warren, Gov. of Calif. 1949-51; Asst. Dir. Calif. Acad. of Sciences 1951-52; mem. U.S. House of Reps. 1953-74; Amb., Perm. Rep. to OAS 1974-77; Rear-Adm., U.S. Naval Reserve; Silver Star,

Legion of Merit, Bronze Star. *Leisure interests:* swimming, music, reading. *Address:* 2101 Connecticut Avenue, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* 202-234-8397.

MAINA, Charles Gatere, B.A.; Kenyan civil servant; b. 1 March 1931, Nyeri; s. of Chief Gideon Gatere Wagithu and Nyamahiga Kinyugo; m. 1st Muringo Wangari Kariuki 1959, three d.; m. 2nd Florence Wachuka Ikundo 1974, one s. one d.; ed. in Kianjogu, Tumutumu, Kagumo and Makerere; Teacher, 1959-61; District Educ. Officer 1962; Provincial Educ. Officer 1962-64; Asst. Chief Educ. Officer 1964-66; Deputy Sec. for Educ. 1966-68; Principal, Kenya Inst. of Admin. 1968-71; mem. Council, Univ. Coll., Dar [redacted] Salaam 1969-70, Univ. of Nairobi 1969-; mem. Agricultural Educ. Comm. 1967, Working Party on Higher Educ. in E. Africa 1968; Sec.-Gen. E. African Community 1971-74; Perm. Rep. to UN 1974-. *Leisure interests:* swimming, tennis, golf. *Address:* 866 United Nations Plaza, Room 486, New York, N.Y. 10017, U.S.A. *Telephone:* 212-421-4740.

MAINGOT, Rodney, F.R.C.S. ENG.; British surgeon and writer; m. 1st Rosalind Smeaton 1928 (died 1957); m. 2nd Evelyn (Duncan) Plesch 1965; ed. Ushaw Coll. and St. Bartholomew's Hosp., London; Capt. R.A.M.C. 1916-19 (mentioned in dispatches); fmr. House Surgeon, Casualty Officer, Chief Asst. to [redacted] Surgical Unit, St. Bartholomew's Hosp., London; Consulting Surgeon to Newspaper Press Fund of England, Royal Free Hosp., London, Royal Waterloo Hosp., London and Southend Gen. Hosp.; Fellow, Assen. of Surgeons of G.B.; former mem. of Council and Pres. Section of Surgery, Royal Soc. of Medicine; Editor-in-Chief British Journal of Clinical Practice; Sydney Body Gold Medallist 1958, Lahey Menorial Lecture Boston 1963; Guest Prof. at following hospitals: Royal Prince Alfred Hosp. Sydney, Mount Sinai Hosp. Miami, Univ. Hosp. Columbus, Anderson Memorial Hosp. SC, Maadi Hosp. Cairo, Univ. Coll. Hospitals of Mexico; Order of the Trinity Cross (Trinidad and Tobago) 1976. *Publications:* Postgraduate Surgery 1938, Technique of Gastric Operations 1941, War Wounds and Injuries (part editor) 1943, The Surgical Treatment of Gastric and Duodenal Ulcer 1945, Techniques of British Surgery 1950, The Management of Abdominal Operations (2nd edn.) 1957, Abdominal Operations (6th edn.) 1974, The Relationship of Art and Medicine 1975, contrib. to Surgery of the Gall Bladder and Bile Duct (ed. Smith and Sherlock) 1964, contrib. to Operative Surgery (ed. Robb & Smith) 1969, 1974, several lectures and papers on surgery of the stomach, gall bladder and bile ducts. *Leisure interests:* writing, landscape painting, early Roman and Greek history. *Address:* 8 Ashley Court, Grand Avenue, Hove, East Sussex BN3 2NP, England. *Telephone:* 0273-735 339.

MAIR, Lucy Philip, PH.D.; British anthropologist; b. 28 Jan. 1901; d. of David and Jessy Mair; ed. Newnham Coll., Cambridge, London School of Econs.; Asst. Lecturer in Int. Relations, L.S.E. 1927, Lecturer in Colonial Admin. 1932, Reader in Applied Anthropology 1946, Prof. of Applied Anthropology 1963-68, Hon. Fellow 1975; Hon. Sec. Royal Anthropological Inst. 1974-78; Rockefeller Fellow 1931; Hon. D.Litt. (Durham) 1972. *Publications:* An African People in the Twentieth Century 1934, Native Policies in Africa 1936, Australia in New Guinea 1948, Primitive Government 1962, New Nations 1963, An Introduction to Social Anthropology 1965, Witchcraft 1969, Anthropology and Social Change 1969, Marriage 1971, African Societies 1974, African Kingdoms 1976. *Address:* 19 Hallgate, Blackheath Park, London, S.E.3, England. *Telephone:* 01-852 8531.

MAIRE, Edmond; French trades union official; b. 1931, Epinay [redacted] Seine; m.; three c.; ed. Conservatoire Nat. des Arts et Métiers; Technician, chemical industry; Perm. Sec. of Union of Chemical Industries of Parisian branch of the Confédération Française Démocratique du Travail (C.F.D.T.) 1958-60; Perm. Sec. of Fed. of Chemical Industries of C.F.D.T. 1960-70, Sec.-Gen. 1964-70; mem. Exec. Comm. of C.F.D.T., in charge of professional and social action; Sec.-Gen. of C.F.D.T. Sept. 1971-. *Address:* Confédération Française Démocratique du Travail, 26 rue de Montholon, 75439 Paris, Cédex 09, France. *Telephone:* 280-62-43.

MAIS, Baron (Life Peer), cr. 1967; **Alan Raymond Mais,** G.B.E., E.R.D., T.D., J.P., F.I.C.E., F.I.ARB., F.R.I.C.S., F.I.STRUCT.E.; British business executive; b. July 1911; s. of the late Capt. E. Mais; m. Lorna Aline 1936; two s. [redacted] d.; ed. Banister Court, Hants, and Coll. of Estate Man., Univ. of London; Commissioned Royal Army Reserve of Officers, Royal West Kent Regt. 1929; transferred Royal Eng. 1931; Maj. 1939, Lieut.-Col. 1941, Col. 1944; served British Expeditionary Force, France 1939-40 (despatches); Special Forces, Middle East, Iraq and Persia 1941-43 (desptaches); Normandy and N.W. Europe 1944-46 (despatches), O.B.E. (mil.) 1944; Commdr. R.E. 1956; Armoured Div., Territorial Army 1947-50; Command, Eng. Group, Army Emergency Reserve 1951-54, Deputy Dir. Eng. Stores 1954-58; Civil eng. posts with Richard Costain and Co. 1931-38; private practice, A. R. Mais & Partners, Structural Eng. and Surveyors 1938-39, 1946-48; Dir. Trollope & Colls Ltd. (contractors) and subsidiaries 1948, Asst. Man. Dir. 1953, Man. Dir. 1957, Deputy Chair. 1961, Chair. and Man. Dir. 1963, retd. 1968; Dir. Nat. Commercial Bank of Scotland 1966-69, Royal Bank of Scotland 1969-, Slag Reduction Co. Ltd., William Sindall Ltd. 1969-; Chair. City of London Insurance Co. Ltd. 1970-77, Hay MSL Consultants 1971-78, Dir. 1978-; fmr. Pres. London Master Builders' Assen.; mem. Land Comm. 1967-69; Sheriff, City of London 1969-70; Lord Mayor of London 1972-73; Chancellor City Univ. 1972-73; Pres. London Chamber of Commerce and Industry 1974; mem. House of Lords Select Cttee. on EEC 1974; mem. several cttees. of Corpn. of City of London, Court and Council of City Univ.; Commr. of Income Tax 1972-; Gov. Birkbeck Coll., London Univ. 1973-76; Treas. Royal Masonic Hosp.; Vice-Pres. Emer. Inst. of Quantity Surveyors; mem. Soc. C.E. (France); Hon. D.Sc. (City) 1972; Order of Patriotic War (1st Class) U.S.S.R. 1942; Order of the Aztec Eagle, Mexico 1973; Order of Merit, Mexico 1973; K. St. J. *Publications:* Yerbury Foundation Lecture, R.I.B.A. 1960, Bossom Foundation Lecture 1971. *Leisure interests:* golf, family, Territorial Army. *Address:* Executive Offices, Park West, London, W.2 (Office); Chesham House, Wilderness Road, Chislehurst, Kent, England (Home). *Telephone:* 01-467 7854 (Chislehurst); 01-262 0161 (London).

MAISEL, Sherman Joseph, PH.D.; American economist; b. 8 July 1918, Buffalo, N.Y.; s. of Louis Maisel and Sophia Beck Maisel; m. Lucy Cowdin 1942; [redacted] s. one d.; ed. The Nichols School, Harvard Coll. and Harvard Univ.; Economist, Fed. Reserve Bd. 1939-41; U.S. Army 1941-45; mem. staff, U.S. del. to Interallied Reparations Agency 1945-46; Prof. of Business Admin. Univ. of Calif. (Berkeley) 1948-65; mem. Bd. of Govs. Fed. Reserve System 1965-72; Fellow, Inst. for Advanced Study in the Behavioral Sciences, Stanford 1972-73; Prof. of Business Admin. Univ. of Calif. (Berkeley) 1973-; Pres. American Finance Assen. 1973; Co-Dir. Nat. Bureau of Econ. Research-West 1973-77. *Publications:* Housebuilding in Transition 1953, Fluctuations, Growth and Forecasting 1957, Financing Real Estate 1965, Managing the Dollar 1973, Real Estate Investment and Finance 1976, and various pamphlets. *Address:* School of Business Administration, Barrows Hall, University of California, Berkeley, Calif. 94720 (Office); 2164 Hyde Street, San Francisco, Calif. 94109, U.S.A. (Home). *Telephone:* (415) 771-9650 (Home).

MAISONROUGE, Jacques G.; French computer executive; m.; five c.; ed. Ecole Centrale de Paris and Columbia Univ.; joined IBM France June 1948; studied electronics U.S.A. 1948-49; Asst. Sales Man. IBM France 1954-56; Man. of market planning and research, IBM Europe 1956-58, Regional Man. 1958-59, Asst. Gen. Man. for Europe 1959-62, Pres. IBM Europe 1964-67; Vice-Pres. IBM World Trade Corpn. 1962-64, Dir. 1967, Pres. 1967-70, Chief Exec. 1973, Chair 1974-; Vice-Pres. IBM Corpn. 1967-70, Sr. Vice-Pres. 1972; Chair. IBM U.K. 1971-72, Chair. IBM World Trade Europe-Africa 1974-, Pres. IBM Europe 1974-; [redacted] American Chamber of Commerce in France and [redacted] other socs.; Dir. French American Banking Corpn., L'Air Liquide, Canadian Liquid Air Ltd., French Chamber of Commerce, U.S.A.; Int. Advisory Dir. Chase Int. Investment Corpn.; Treas. Int. Man. Educ. Foundation. *Address:* 821 UN Plaza, New York, N.Y. 10017, U.S.A.

MAITLAND, Sir Donald James Dundas G.C.M.G., O.B.E., M.A.; British diplomatist; b. 16 Aug. 1922, Edinburgh; s. of Thomas D. Maitland and Wilhelmina S. Dundas; m. Jean Marie Young 1950; [redacted] s. [redacted] d.; ed. George Watson's Coll. and Edinburgh Univ.; Army Service 1941-47; joined Diplomatic Service 1947; Consul, Amara 1950; British Embassy, Baghdad 1950-53; Private Sec. to Minister of State, Foreign Office 1954-56; Dir. Middle East Centre for Arab Studies, Lebanon 1956-60: Foreign Office 1960-63; Counsellor, British Embassy, Cairo 1963-65; Head, News Dept., Foreign Office 1965-67; Principal Private Sec. to Foreign and Commonwealth Sec. 1967-69; Amb. to Libya 1969-70; Chief Press Sec. to Prime Minister 1970-73; Perm. Rep. to UN 1973-74; Deputy Under-Sec., FCO 1974-75; mem. British Overseas Trade Bd. 1974-75, U.K. mem. Commonwealth Group [redacted] Trade, Aid and Devt. 1975; U.K. Perm. Rep. to European Communities 1975-79. *Leisure interests:* music, hill-walking, flying. *Address:* Foreign and Commonwealth Office, London, S.W.1, England.

MAJDALANI, Nassim Mikail; Lebanese banker and politician; b. 1912, Beirut; ed. American Univ. of Beirut and Université de Lyon; Barrister 1937-44; Deputy for Beirut 1957, 1960, 1964; Vice-Pres. of Council of Ministers and Minister of Justice 1960-61, 1964-65; mem. of Admin. Council of Bank N. Majdalani, Beirut; Minister of Economy 1968-69; Minister of Foreign Affairs 1969-71; Deputy

Speaker, Chamber of Deputies 1971-75; Grand Cordon, Order of Tunisia; Medal of Order of St. Vladimir. *Address:* Chambre des Députés, Place de l'Etoile, Beirut (Office); Rue Omar Ben Khattab, Beirut, Lebanon (Home).

MAJEKODUNMI, Chief The Hon. Moses Adekoyejo, C.M.G., LL.D., M.A., M.D., F.R.C.P.I., F.M.C.O.G., M.A.O., D.C.H., L.M.; Nigerian physician and politician; Chief Odofin of Ikereku, Abeokuta, Chief Maiyegun of Lagos, Chief Bashigun of Ede, Chief Agba-Akin of Oshogbo, Chief Maiyero of Akure, Chief Maiyegun of Iwo and Chief Asipa of Iragbiji; b. 17 Aug. 1916, Abeokuta; s. of Chief J. B. Majekodunmi, Otun of Egba Abeokuta; ed. Abeokuta Grammar School, St. Gregory's Coll., Lagos, Trinity Coll., Dublin; House Physician, Nat. Children's Hosp., Dublin 1941-43; Medical Officer, Nigeria 1943-49; Consulting Obstetrician, Massey Street Maternity Hosp., General Hosp. and Creek Hosp., Lagos 1949-60; Sr. Specialist Obstetrician, Nigerian Federal Gov. Medical Services 1949-60; Senator and Leader of Senate 1960; Minister of State for the Army 1960-61, Fed. Minister of Health 1961-66; Fed. Minister of Health and Information 1965; Admin. for W. Nigeria 1962; Pres. 16th World Health Ass. 1963; Int. Vice-Pres., 3rd World Conf. on Medical Educ., New Delhi 1966, Dir. Barclays Bank (Nigeria) Ltd., Westminster Dredging Co. (Nigeria) Ltd.; mem. Bd. of Govs., St. Gregory's Coll., Lagos; Medical Dir. and Chair. Bd. of Govs., St. Nicholas Hosp., Lagos 1967-; Hon. LL.D. (Trinity Coll., Dublin), Hon. D.Sc. (Lagos). *Publications:* Premature Infants: Management and Prognosis 1943, Behold the Key (play) 1944, Partial Atresia of the Cervix Complicating Pregnancy 1946, Sub-Acute Intussusception in Adolescents 1948, Thiopentone Sodium in Operative Obstetrics 1954, Rupture of the Uterus involving the Bladder 1955, Effects of Malnutrition in Pregnancy and Lactation 1957, Medical Education and the Health Services: A Critical Review of Priorities in a Developing Country 1966. *Leisure interests:* riding, squash, swimming. *Address:* 3 Kingsway, Ikoyi, Lagos, Nigeria. *Telephone:* 22450.

MAJID, Abdul, PH.D.; Afghan diplomatist; b. 14 July 1914; ed. Cornell Univ. and Univ. of California (Berkeley); [illegible] Afghan Inst. of Bacteriology 1941, Dir. 1941-42; Prof. of Biology and Physiology, Kabul Univ. 1940-46, Pres. of Univ. 1946-48; Minister of Public Health 1948-50; Minister of Educ. 1950-56; Amb. to Japan 1956-63, to U.S.A. 1963-67, to U.K. 1967-70; Minister of Justice and Attorney-Gen. 1973-77, Minister of State 1977-78; Leader Afghan del. to UN 1966; Order of Educ. (First Class) 1956, Sardar-i-Ali 1959, A. Haas Award (Univ. of Calif.) 1966. *Address:* Ministry of Justice, Kabul, Afghanistan.

MAJIDI, Abdol-Majid, PH.D.; Iranian politician and lawyer; b. 11 Jan. 1928; ed. Teheran, Paris, Harvard and Illinois Univs.; held posts in Export Devt. Bank and in Plan Org.; Head of Budget Bureau of Plan Org. 1959-60; Financial and Admin. Asst. Man. Dir. of Plan Org. 1962-64; Head of Budget Bureau formed in 1964; Deputy Prime Minister, Head of Cen. Budget Bureau, Plan Org. 1966; Minister of Agricultural Products and Consumer Goods 1967-68, of Labour and Social Affairs 1968-73, of State in charge of Plan and Budget Org. 1973-74; Sec. Gen. The Shahbanu Farah Foundation 1977; [illegible] Arts and Culture High Council 1968; Sec.-Gen. Red Lion and Sun Soc.; Hon. LL.B. (Lewis and Clark Coll., Ore.). *Address:* The Shahbanu Farah Foundation, Bagh-e Ferdows, Tarish, Teheran, Iran.

MAJOR, Tamás; Hungarian actor and director; b. 1910; ed. Acad. of Dramatic Art; Budapest Nat. Theatre Dir. 1945-62, leading Stage Man. 1962-; played Tartuffe, Richard III, Iago (Othello), etc.; mem. Cen. Cttee., Hungarian Socialist Workers' Party 1957-66; Kossuth Prize (twice), "Red Banner" Labour Order of Merit 1970, decorated Eminent Artist of the Hungarian People's Republic. *Address:* c/o National Theatre, H-1077, Budapest VII, Hevesi Sándor tér 2, Hungary. *Telephone:* 413-849.

MAKAREVSKY, Aleksandr Ivanovich, DR.TECH.SC.; Soviet construction specialist; b. 16 April 1904, Mushkovichi village, Smolensk region; ed. Moscow Bauman Higher Tech. School; Lab. Asst., Engineer, Chief of Dept., Deputy Chief, Zhukovsky Cen. Airhydrodynamical Inst. 1929-; mem. CPSU 1943; Prof. Moscow Physicotech. Inst. 1944; Corresp. mem., U.S.S.R. Acad. of Sciences 1953-68, Academician 1968-; Lenin Prize, State Prize, Order of Lenin (three times), and other decorations. *Address:* U.S.S.R. Academy of Sciences, 14 Lenin Prospekt, Moscow, U.S.S.R.

MAKAREZOS, Nikolaos; Greek politician; b. 1919, Gravia; s. of John Makarezos and Catherine N. Tsonou; m. Chariclia G. Mattheou 1941; one s. one d.; ed. graduate schools, Evelpidon Mil. Coll., War Coll. and British and U.S. artillery schools; commissioned 1941; mem. Army Gen. Staff and Prof. Evelpidon Mil. Coll. and Higher War Coll. 1961; Mil. Attaché, Greek Embassy, Bonn 1961-63, Chief of Operations, 1st Army Corps, 1966; Minister of Coordination 1967-71; retd. from army 1967; Second Deputy Prime Minister 1971-73; arrested Oct. 1974; sentenced to death for high treason and insurrection Aug. 1975 (sentence commuted to life imprisonment).

MAKAROVA, Natalia; Soviet ballerina; b. 1940, Leningrad, U.S.S.R.; m. Edward Karkar 1976; [illegible] s.; ed. Vagonova Ballet School, Leningrad; mem. Kirov Ballet 1959-70; sought political asylum, London 1970; Principal Dancer, American Ballet Theatre Oct. 1970-; Guest Artist, Royal Ballet 1972; Honoured Artist of R.S.F.S.R.; best known for performance of Giselle. *Address:* American Ballet Theatre, 888 Seventh Avenue, New York, N.Y. 10019, U.S.A.

MAKAROVA, Tamara Fedorovna; Soviet film actress; b. 13 Aug. 1907, Leningrad; m.; [illegible] s.; ed. Leningrad Inst. of Scenic Arts; Dozent at the Inst. of Cinematography 1944-, Prof. 1968-; People's Artist of the U.S.S.R.; State prizewinner 1941, 1947; Order Badge of Honour and other awards. *Principal roles:* Dr. Okhrimenko (Seven Brave People 1935), Natasha Solovyova (Komsomolsk 1937), collective farmer Shumilina (The Teacher 1939), Koshevaya (The Young Guard 1948), Dr. Kazakova (The Country Doctor 1952); also appeared in Memory of the Heart 1958, Men and Beasts 1962, The Journalist 1967, To Love People 1973, Mothers and Daughters 1974. *Address:* Moscow 121248, Kutesovski proezd, 2/1 k.v. 228, U.S.S.R.

MAKASA, Kapasa; Zambian politician; b. 29 Jan. 1922, Musanya's Village Chinsali; ed. Lubwa Mission and Public Admin., Oxford Univ.; Church Elder, Church of Scotland (now United Church of Zambia), Lubwa; Teacher, Mufulira Mine School 1943; Clerk, Mine Office, Copper Belt Prov. 1944-45; Teacher under African Methodist-Episcopal Church, Choma 1945-46; Teacher, Chinsali 1947-53; mem. Chinsali Welfare Assn. 1947; Chair. African Nat. Congress (ANC) (N. Rhodesia) 1950; Prov. Pres. ANC (N.R.) Northern Prov. 1953-58; imprisoned for conducting boycott, N. Rhodesia 1955-56; Div. Pres., Zambian Nat. Congress (ZANC), Northern Prov. 1958; restricted to Solwezi District by Colonial Govt. 1960; Div. Pres. ZANC, Luapula Prov. 1960-61; United Nat. Independence Party (UNIP) Rep., Tanganyika (now Tanzania) and Chair. Refugees Cttee. 1961-62; Regional Sec., Katete, Chadza Region, Eastern Prov., Zambia 1963; M.P. for Chinsali North and Parl. Sec., Ministry of Agric. 1963; Resident Minister Northern Prov. 1964-68; Cabinet Minister of North Western Prov. and Amb. to Ethiopia 1969; Cabinet Minister to Luapula Prov. 1971-72; High Commr. to Tanzania and Amb. to Rwanda, Burundi and Malagasy Repubs. 1972-75; High Commr. to Kenya, concurrently Amb. to Rwanda and Burundi 1975-. *Address:* Zambian High Commission, International House, City Hall Way, P.O. Box 48741, Nairobi, Kenya.

MAKI, Fumihiko, M.ARCH.; Japanese architect; b. 6 Sept. 1928, Tokyo; m. Misao 1960; two d.; ed. Univ. of Tokyo, Cranbrook School of Art, Michigan and Harvard Univ.; Assoc. Prof. Washington Univ. 1956-62, Harvard Univ. 1962-66; Lecturer, Dept. of Urban Eng., Univ. of Tokyo 1964-; Principal Partner, Maki and Assocs. 1964-; Visiting Lecturer and Critic to various univs. and insts. in Canada and U.S. 1960-; awards include Gold Medal of Japan Inst. of Architects 1964; *major works include:* Steinberg Hall, Washington Univ. 1960, Toyoda Memorial Hall, Nagoya Univ. 1960, Lecture Hall, Chiba Univ. 1964, and Rissho Univ. Campus 1966-; art award from Mainichi Press 1969. *Publications:* Investigations in Collective Form 1964, Movement Systems in the City 1965, Metabolism 1960, Structure in Art and Science (contrib.) 1965. *Leisure interests:* reading, chess. *Address:* 16-22, 5-chome Higashi-Gotanda, Shinagawa-ku, Tokyo, Japan.

MAKINO, Koji; Japanese banker; b. 7 March 1914, Hyogo Prefecture; ed. Tokyo Univ.; Dir. of Sumitomo Trust & Banking Co. Ltd. 1960, Man. Dir. 1963, Sr. Man. Dir. 1969, Deputy Pres. 1972, Pres. 1976-, Chair. 1978-; Dir. Trust Co. Assn. of Japan, Osaka Bankers Assn.; Standing Dir. Kansai Econ. Fed.; Dir. Kansai Cttee. for Econ. Devt. *Address:* Sumitomo Trust & Banking Co. Ltd., 15 Kitahama 5-chome, Higashi-ku, Osaka (Office); 25-407 Kasumi-cho, 3-chome, Nishinomiya City, Hyogo Prefecture, Japan (Home).

MAKITA, Hisao, B.A.; Japanese industrialist; b. 13 Dec. 1909, Saga Pref.; s. of Nobuhira and Toshiko Otani; m. Hideko Ohchi 1944; three s. [illegible] d.; ed. Tokyo Coll. of Commerce; joined Nippon Kokan K.K. 1934, Dir. 1957, Man. Dir. 1965, Sr. Man. Dir. 1967, Exec. Vice-Pres. 1968, Pres. 1971-; Pres. Kokan Mining Co. (subsidiary of Nippon Kokan) 1961-66; Dir. Int. Iron and Steel Inst.; Exec. Dir. [illegible] Industrial Relations Conf. Chair., The Japan Iron and Steel Fed.; Vice-Chair. The Japan Iron and Steel Exporters'

Asscn.; Man. Dir. The Shipbuilders' Asscn. of Japan; Dir. Fed. of Econ. Orgs. (Keidanren); Exec. Dir. Japan Fed. of Employers' Asscns. *Leisure interests:* fishing, golf. *Address:* Nippon Kokan K.K., 1-1-2, Marunouchi, Chiyodaku, Tokyo (Office); 2-4-1, Omiya, Suginami-ku, Tokyo 168, Japan (Home). *Telephone:* 03-212-7111 (Office).

MAKKI, Mohammed Hassan, D.ECON.; Yemeni politician and diplomatist; b. 22 Dec. 1933; ed. Univs. of Bologna and Rome; Adviser, Ministry of Econ. 1960-62, Deputy Minister 1962, Minister 1963-64; Minister of Foreign Affairs April-Sept. 1966, 1967-68; Amb. to Italy 1968-70, 1977-, to Fed. Repub. of Germany 1970-72; Deputy Prime Minister 1972-74; Prime Minister March-June 1974; Deputy Prime Minister for Econ. Affairs June-Oct. 1974; Perm. Rep. to UN. 1974-76, Amb. to U.S.A. (also accred. to Canada) 1975-76. *Address:* Embassy of the Yemen Arab Republic, Via Taro 37, Rome, Italy.

MAKSARYOV, Yuriy Yevgeniyevich; Soviet politician; b. 10 Aug. 1903; ed. Leningrad Inst. of Technology; Alt. mem. Cen. Cttee. CPSU 1952-61; Chair. State Cttee. for Science and Tech., Council of Ministers 1957-60; Chair. State Cttee. for Inventions and Discoveries 1961-78; State Prize; Hero of Socialist Labour 1943, Order of Lenin (seven times). *Address:* c/o State Committee for Inventions and Discoveries, 2/6 Maly Cherkassky Pereulok, Moscow, U.S.S.R.

MAKSIMOV, Vladimir Yemelyanovich; Soviet writer; b. 1932; ed. secondary school; began publishing 1952; an editor of October 1965-67; expelled from Union of Writers 1973; allowed to visit France but deprived of Soviet citizenship 1974; editor of dissident magazine Kontinent 1974-. *Publications:* Verse 1956, Story in Pages from Tarusa 1961, Man Alive (play) 1965, stories, novels, plays for October 1965-67, We Adore the Earth 1970, The Seven Days of Creation (Frankfurt) 1971, (English trans. 1977), The Quarantine (Frankfurt) 1973, Farewell from Nowhere 1974.

MAKSIMOVA, Yekaterina Sergeyevna; Soviet ballet dancer; b. 1 Feb. 1939, Moscow; ed. Bolshoi Theatre Ballet School; joined Bolshoi Theatre Ballet Co. 1958; Honoured Artist of R.S.F.S.R., Gold Medal, Varna (int. competition) 1964, Pavlova Prize of Paris Acad. of Dance 1969; People's Artist of U.S.S.R. 1973; Order of Red Banner. *Main roles:* Masha (Nutcraker), Katerina (Stone Flower), Seventh Waltz, Prelude (Chopiniana), Maria (Fountain of Bakhchisarai), Giselle (Giselle), Mavka (Song of the Forest by Zhukovsky), Jeanne (Flames of Paris), the Muse (Paganini by Rachmaninov), Lizzie (Thunder Road by Karayev), Cinderella (Cinderella), Aurora (Sleeping Beauty), Kitri (Don Quixote), Frigina (Spartacus by Khachaturyan). *Address:* c/o State Academic Bolshoi Theatre of U.S.S.R., 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

MAKSYMOWICZ, Stanisław; Polish diplomatist and politician; b. 12 March 1913, Tarnopol; ed. Jan Kazimierz Univ., Lwów (now Lvov, U.S.S.R.), Handelshochschule, St. Gallen, and Freiburg Univ., Switzerland; Ministry of Navigation and Foreign Trade 1945-46; Attaché, later Commercial Counsellor, Polish Embassy, Paris 1946-50; Chief Dir. Varimex (Foreign Trade Enterprise) 1950-57; Head of [redacted] Dept., Ministry of Foreign Trade 1957-61; Commercial Counsellor, Polish Embassy, Vienna 1961-62; Gen. Sec., Polish Chamber of Foreign Trade 1962-71; Commercial Counsellor, Polish Embassy, Teheran 1970-72; Commercial Attaché, Polish Embassy, Kuwait 1972-76. *Address:* c/o Ministry of Foreign Affairs, Al. 1 Armii Wojska Polskiego 23, 00-580, Poland.

MAKTUM, H.H. Sheikh Rashid bin Said al-; Ruler of Dubai; b. 1914; ed. privately; succeeded his father, Said bin Maktum, [redacted] 4th Sheikh 1958; Vice-Pres. United Arab Emirates (UAE) Dec. 1971-, Prime Minister April 1979-. *Address:* Royal Palace, Dubai, United Arab Emirates.

MALABU, Alhaji Bello; Nigerian politician and diplomatist; b. 12 May 1913; ed. Yola Middle School and Katsina Coll.; Teacher Yola Middle School 1933-48, Headmaster 1948-49; Asst. Lecturer, School of Oriental and African Studies, London 1949-51; Native Schools Man. 1951-56; [redacted] Nigerian House of Reps. 1951-54; mem. Nigerian Ports Authority 1954-57, N. Nigerian Regional Legislature 1951-60, Nigerian Senate, April-Sept. 1960; Amb. to Cameroon Repub. 1960-70; Amb. to Saudi Arabia (also accred. to Jordan and Kuwait) 1970-76. *Address:* c/o Ministry of Foreign Affairs, Lagos, Nigeria.

MALAGODI, Giovanni Francesco, DR.IUR.; Italian politician; b. 12 Oct. 1904; ed. Rome Univ.; Jt. Gen. Man. Banca Commerciale Italiana 1933, Gen. Man. 1947; Gen. Man. Banque Française et Italienne pour l'Amérique du Sud 1937; Econ. and Financial Adviser, Ministry of Foreign Affairs 1947; Chair. OEEC Manpower Cttee. 1950; Deputy for Milan 1953- (re-elected 1958, 1963, 1968, 1972, 1976); Sec.-Gen. Partito Liberale Italiano 1954-72, Chair. July 1972-; Minister of Treasury 1972-73; Vice-Chair. Liberal Int. 1956-58, 1966, Chair. 1958-66, Hon. Chair. 1973-; Commdr. Ordine al Merito della Repubblica Italiana; Liberal. *Publications:* Le Ideologie Politiche 1927, Rapporto sull'Emigrazione 1952, Massa non Massa 1963, Liberalismo in Commino 1965, Sarnan-Libertà Nuova 1967. *Address:* Via Frattina 89, Rome, Italy.

MALAMUD, Bernard, M.A.; American author; b. April 1914, Brooklyn, New York; s. of Max and Bertha Malamud; m. Ann de Chiara 1945; one s. one d.; ed. New York City Coll. and Columbia Univ.; evening High School teacher, Brooklyn and Harlem 1940-49; English Dept., Oregon State Coll. 1949-61, Assoc. Prof. 1959-; mem. Literature Div. Bennington Coll. 1961-; Visiting Lecturer Harvard Univ. 1966-68; mem. Nat. Inst. of Arts and Letters 1964; mem. American Acad. of Arts and Sciences 1967; Partisan Review Fiction Fellowship 1956, Rosenthal Award (Nat. Inst. of Arts and Letters) and Daroff Memorial Award for The Assistant 1958, Ford Foundation Grant in Humanities and Letters, Nat. Book Award for The Magic Barrel 1959, Nat. Book Award for The Fixer 1967, Pulitzer Prize for Fiction for The Fixer 1967. *Publications:* The Natural 1952, The Assistant 1957, A New Life 1961, The Fixer 1966, Pictures of Fidelman 1969, The Tenants 1972 (novels); The Magic Barrel 1957, Idiots First 1963, Rembrandt's Hat 1973 (short stories), Dubin's Lives 1979; numerous short stories have appeared in The Atlantic, Esquire, Partisan Review, The New Yorker, Harper's Magazine, etc. *Leisure interests:* art galleries, reading, travel. *Address:* Bennington College, Bennington, Vt. 05201, U.S.A.

MALATESTA, Lamberto, PH.D.; Italian chemist; b. 20 June 1912, Milan; s. of Dr. Giuseppe Malatesta and Clara Tombolan Fava; m. Rachele Pizzotti 1947; one s. two d.; ed. Milan Univ.; Asst. to the Chair of Industrial Chem., Milan Univ. 1937, Reader 1940, Lecturer 1942, Chair. Prof. of Analytical Chem. 1948-51, of Gen. and Inorganic Chem. 1951-, Dir. Istituto di Chimica Generale 1951-; Dir. of a Centre of Consiglio Nazionale delle Ricerche 1970-; Pres. Società Chimica Italiana 1971-73; Pres. of Div. of Inorganic Chem., IUPAC 1975-77, Chemical Sciences Cttee., Nat. Research Council (CNR) 1976-; Fellow, Accad. Nazionale dei Lincei, Istituto Lombardo Accademia di Scienze e Lettere; Hon. Fellow, Chemical Soc. (London); Prize of the Pres. of Italian Repub. 1963; Gold Medal for Educ., Culture and Art 1974. *Publications:* General Chemistry (in Italian) 1965, Inorganic Chemistry (in Italian) 1968; co-author: Isocyanide Compounds of Metals 1968, Zerovalent Compounds of Metals 1974; about 100 original papers in scientific journals. *Leisure interests:* skiing, playing bridge. *Address:* Via Carpaccio 2, 20133 Milano, Italy. *Telephone:* 236-0350.

MALAUD, Philippe, L. EN D.; French politician and diplomatist; b. 2 Oct. 1925, Paris; s. of Jaques Malaud and Odette (née Desruol du Tronçay); m. Chantal de Gorguette d'Argoeuves 1951; one d.; ed. Lycée Lamartine, Mâcon, Lycée Janson-de-Sailly, Paris Univ., Ecole Libre des Sciences Politiques; joined cen. admin. of Foreign Office 1947; Embassy Attaché, Warsaw 1949; 2nd Sec., Cairo 1952; studied Ecole Nat. d'Admin. 1954-56; Personnel Dept. Foreign Office 1957; Deputy Chief 1958-61, then Chief of Cabinet of Foreign Ministry under Couve de Murville 1961-67; Dir. Cabinet A. Bettencourt, Sec. of State for Foreign Affairs 1967-68; Ind. Repub. Deputy for Saône-et-Loire 1968, 1973; Sec. of State for the Civil Service and Information 1968-73; Minister of Information 1973, of Civil Service 1973-74; Mayor of Dompierre-les-Ormes 1965-; Gen. Councillor for Canton of Matour Oct. 1967-; Pres. of Gen. Council of Saône-et-Loire March 1970-; European Pres. World Fed. of Twin Towns 1973-; Political Dir. Nouveaux Jours 1975-; Chevalier, Légion d'honneur, Ordre du Mérite; Commdr., American Legion. *Leisure interests:* tennis, skiing. *Address:* 39 quai de Grenelle, 75015 Paris; and 71970 Dompierre-les-Ormes, France.

MALAVIYA, Keshava Deva, M.P., M.SC.; Indian politician; b. 11 June 1903; ed. Allahabad Univ. and Harcourt Butler Technological Inst., Kanpur; joined Congress Movement 1921; served various sentences [redacted] political prisoner; former Gen. Sec. Uttar Pradesh Provincial Congress Cttee.; actively participated in "Quit India" Movement; Parl. Sec. to Minister for Industries and Devt., U.P. Govt. 1946; Minister for Industries and Devt., U.P. 1947-51; Parl. Sec. to Fed. Minister of Educ. 1952; Deputy Fed. Minister of Natural Resources and Educ. 1952-56; Fed. Minister of Natural Resources 1956-57; Minister of State for Mines and Oil 1957-62; Cabinet Minister Mines and Fuel 1962-63; Minister of Steel and Mines Jan.-Oct. 1974, of Petroleum and Chemicals 1974-75, of Petroleum 1975-77; arrested Oct. 1977; Pres. Indian Asscn. for Afro-Asian Solidarity, New Delhi 1965; mem. presidential Cttee. All-India Peace Council 1966; [redacted] Exec. Cttee. Afro-Asian Peoples Solidarity Org. (Cairo); Chair. Heavy Eng. Corpn. Ranchi, Bihar 1968. *Address:* Shastri Bhavan, Dr. Rajendra Prasad Road, New Delhi 110001, India.

MALAVOLTA, Euripedes, D.SC.; Brazilian agricultural biochemist; b. 13 Aug. 1929, Araraquara, São Paulo; s. of Antônio Malavolta and Lucia Canassa Malavolta; m. Leila M. B. Malavolta 1953; two s. three d.; ed. Escola Superior de Agricultura, Luiz de Queiroz (Universidade de São Paulo) and Univ. of California (Berkeley), U.S.A.; Instructor in Agricultural Chem., Univ. de São Paulo 1949, Private Docent 1951, Prof. of Agricultural Biochem. 1958-; Research Assen. Univ. of Calif. 1952-53, Visiting Prof. 1959-60; Vice-Dean, Escola Superior de Agricultura, Luiz de Queiroz, Univ. de São Paulo 1966-67, Dean 1967, Dean Inst. of Physics and Chem. (São Carlos) 1972-76; State Council of Educ.; mem. Brazilian Acad. of Sciences, São Paulo Acad. of Sciences, Int. Cttee. of Plant Analysis and Fertilizer Problems. *Publications:* Elements of Agricultural Chemistry 1954, Manual of Agricultural Chemistry 1959, On the Mineral Nutrition of Some Tropical Crops 1962. *Leisure interests:* reading, gardening. *Address:* Escola Superior de Agricultura Luis de Queiroz, Universidade de São Paulo, Piracicata, 13400 São Paulo, SP (Office); Travessa Portugal, 146 Piracicata, 13400 São Paulo, SP, Brazil (Home). *Telephone:* 0194-332915 (Office); 0194-223948 (Home).

MALAYSIA, The Yang di Pertuan Agung (Supreme Head of State) of (see Pahang, H.R.H., the Sultan of).

MALCOLM, Dugald, C.M.G., C.V.O., T.D.; British diplomatist (retd.); b. 22 Dec. 1917, London; s. of Major-Gen. Sir Neill Malcolm, K.C.B., D.S.O.; m. Mrs. Peter Atkinson Clark 1957 (died 1976); one step-d. one d.; ed. Eton and New Coll., Oxford; Armed Forces 1939-45; Foreign Service 1945-; served Lima, Bonn, Seoul and London; Vice-Marshal of Diplomatic Corps 1957-65; Amb. to Luxembourg 1966-70, to Panama 1970-74; Minister to the Vatican 1975-77; mem. Queen's Bodyguard for Scotland (Royal Company of Archers). *Address:* White Court, Alfriston, nr. Polegate, East Sussex, England.

MALCOLM, George (John), C.B.E., M.A., B.MUS.; British harpsichordist, pianist and conductor; b. 28 Feb. 1917, London; s. of George Hope Malcolm; ed. Wimbledon Coll., Balliol Coll., Oxford, and Royal Coll. of Music; originally trained as concert pianist; Master of Music, Westminster Cathedral 1947-59, trained Boys' Choir for which Benjamin Britten wrote Missa Brevis Op. 63; harpsichordist, pianist and conductor making frequent tours especially in Europe; Artistic Dir., Philomusica of London 1962-66; F.R.C.M.; Hon. mem. R.A.M.; Hon. Fellow Balliol Coll. Oxford; Hon. D. Mus. (Sheffield) 1978; Cobbett Gold Medal, Worshipful Co. of Musicians 1960, Papal Kt., Order of St. Gregory the Great 1970. *Address:* 38 Cheyne Walk, London, S.W.3, England. *Telephone:* 01-352 5381.

MALCOLM, Wilbur George; American business executive; b. 22 June 1902; ed. Univ. of Maryland; Instructor Univ. of Maryland 1922-24; Sr. Bacteriologist, Anti-Toxin and Vaccine Labs., Forest Hill, Mass. 1930-34; Vice-Pres. and Gen. Man. Lederle Labs. 1946-55; Chair. and Chief Exec. Officer American Cyanamid Co. until 1966; mem. Int. Coll. of Surgeons, Soc. American Bacteriologists, New York Acad. of Science; Dir. Mfg. Chemists' Assen. *Address:* 125 River Road, Grand View-on-Hudson, N.Y., U.S.A.

MAŁCUŻYŃSKI, Karol; Polish journalist; b. 20 June 1922, Warsaw; s. of Witold Małcużyński and Maria Małcużyńska; m. Irena Szymkiewicz; one s. d.; ed. in Warsaw and Paris; began career as corresp. Robotnik daily newspaper, Nuremberg 1945; mem. editorial staff and writer, Trybuna Ludu, Warsaw 1948-; Press Counsellor, Embassy in London 1957-60; Commentator Polish TV 1961-; Polish Parl. 1976-, Parl. Cttees. on foreign affairs, culture and art; Pres. ZAIKS Assen. of Authors; mem. Admin. Council, CISAC, Directing Cttee. BIEM 1974-; State Prize, 2nd Class 1950, 3rd Class 1953, Gold Cross of Merit 1954, Commdr. Order of Polonia Restituta with Star 1974, and other medals and decorations. *Publications:* Norymberga-Niemcy 1945, Oskarżeni nie pryzyznają się do winy (The Accused Plead Not Guilty), Szkice warszawskie (Warsaw Studies) 1955, and scripts and scenarios for documentary films. *Address:* Ul. Wiejska 14 9,00-490 Warsaw, Poland.

MALECELA, John William Samuel; Tanzanian diplomatist and politician; b. 1934; ed. Bombay Univ. and Cambridge Univ.; Admin. Officer, Civil Service 1960-61; Consul in U.S.A. and Third Sec. to the UN 1962; Regional Commr., Mwanza Region 1963; Perm. Rep. to the UN 1964-68; Amb. to Ethiopia 1968; E. African Minister for Communications, Research and Social Services, E. African Community 1969-72; Minister of Foreign Affairs 1972-75, of Agric. Nov. 1975-; Order of Merit of First Degree, Egypt; First Order of Independence, Equatorial Guinea. *Address:* Ministry of Agriculture, Dar es Salaam, Tanzania.

MALECKI, Ignacy, D.ENG.; Polish physicist; b. 18 Nov. 1912, Pakiewna; s. of Jan and Emilia Malecki; m. Maria Gassowska 1945; one d.; Prof., Tech. Univ., Gdańsk 1945-50, Warsaw 1950-; Dir. Inst. of Basic Tech. Problems, Polish Acad. of Sciences 1953-62 and 1973-, Chair. Council for Tech. Affairs 1957-60; Vice-Pres. Int. Council of Scientific Unions (ICSU) 1963-70; Chair. Polish Nat. Pugwash Cttee. 1964-; Vice-Chair. Polish Cttee. for UNESCO Affairs; Dir. Dept. of Science and Promotion of Basic Sciences, UNESCO 1969-72; Prof. Tech. Univ. Warsaw 1973-; Polish United Workers' Party 1948-; Polish Acad. of Sciences 1953-, Presidium 1974-, Gen. Cttee., Int. Council of Scientific Unions 1976; mem. Acoustic Assen. of S. America; Hon. Spanish Acoustic Assen. 1973; Pres. Int. Comm. on Acoustics; Dr. h.c. (Budapest); Gold Cross of Merit 1946, 1954; Officer's and Commdr.'s Cross of Polonia Restituta 1957, 1964; State Prize 1966; Order of Banner of Labour 2nd Class 1969, 1st Class 1977; Cyril and Metody Order (Bulgaria) 1970; Medal of French Acoustic Assen. 1971; Medal of 30th Anniversary of People's Poland 1974; N. Copernicus Medal, Polish Acad. of Sciences 1975. *Publications:* Akustyka radiowa i filmowa (Radio and Film Acoustics) 1950, Naukowe podstawy zastosowania metod ultradźwiekowych w górnictwie i geologii (Scientific Bases of Applying Ultrasonic Methods in Mining and Geology) 1956, Problemy koordynacji badań naukowych (Co-ordination of Scientific Researches) 1960, Teoria fal i układów akustycznych (Theory of Acoustic Waves and Systems), Podstawy teoretyczne akustyki kwantowej (Theoretical Basis of the Quantum Acoustic) 1972, etc. *Leisure interest:* gardening. *Address:* Polska Akademia Nauk, Pałac Kultury i Nauki, Warsaw (Office); Kaliska 17, Warsaw 02-316, Poland (Home). *Telephone:* 22-15-01 (Home).

MALEK, Gustavo, PH.D.; Argentine politician and chemical engineer; b. 29 March 1929, Buenos Aires; s. of Agustín and Ester Szana de Malek; m. Esther Mercedes Perramón 1956; three s. d.; ed. Univ. Nacional del Sur; Lecturer in chemical and industrial eng., Univ. Nacional del Sur 1950-60; Dir. Laboratorio de la Curtiembre "La Normandie", S.A.I.C. 1955-58; Head of Research Lanera San Blas, S.A.I.C. 1958-68; Asst. Prof. of Industrial Eng., Univ. Nacional del Sur 1961-62, Prof. of Industrial Eng. and Head, Laboratorio de Lanas (Wool Research Lab.) 1963-69; served on cttees. of Univ. Nacional del Sur; Minister of Educ. and Culture, 1971-73; Argentine Chem. Soc., Argentine Assen. of Textile Chemists and many other nat. and foreign socs. in field of textile chemistry; various prizes and decorations. *Publications:* many articles on chemistry in the textile industry. *Leisure interest:* rugby. *Address:* c/o Ministerio de Cultura y Educación, Avda. Eduardo Modero 235, Buenos Aires, Argentina.

MÁLEK, Ivan, MU.DR., DR.SC.; Czechoslovak microbiologist; b. 28 Sept. 1909, Zábřeh, Czechoslovakia; s. of Antonin Málek and Anežka Málková; m. 1st Jindra Málková 1935 (died 1954); m. 2nd Doubravka Málková 1956; two s. six d.; Prof. of Medical Microbiology, Charles Univ.; Academician 1952, and of Presidium, Czechoslovak Acad. of Sciences 1965-70, Vice-Pres. 1960-65; Dir. Inst. of Microbiology, Czechoslovak Acad. of Sciences 1962-70; Corresp. mem. German Acad. of Sciences, mem. Perm. Cttee. of Pugwash 1964-, mem. of Bureau and Hon. Sec. World Fed. of Scientific Workers 1952-; Swedish Royal Tech. Acad. 1965-; Leopoldina-Halle/Saale German Acad. of Research in Natural Sciences 1962-; Vice-Pres. World Acad. of Art and Sciences; Chair. Socialist Acad. Czechoslovakia 1965-69; Vice-Pres. Int. Union of Biological Sciences 1967-70; mem. Cen. Cttee. CP of Czechoslovakia 1962-69; Agricultural Comm. 1963-66; Deputy to Nat. Ass. 1960-69; Deputy to House of the People, Fed. Ass. 1969-71; Gold Plaque of Czechoslovak Acad. of Sciences for Services to Science and Mankind 1969; Bulgarian Acad. of Sciences 1966-, Science Advisory Cttee. IAEA 1967-, New York Acad. of Sciences, Advisory Cttee. Int. Programmes, UNESCO Int. Advisory Cttee. Natural Resources Research 1969-; Vice-Pres. IBP 1969-; Laureate of the State Prize 1951, 1959, winner of the Medal of J. E. Purkyně 1956; awarded the Order of Labour 1958, Lenin Peace Prize 1967; played important role in the reform of medical studies as well research, studies in the organization of the nationalized pharmaceutical industry, and established number of biological insts. *Publications:* Biology in the Future 1961, Opened Problems of Science in Czechoslovakia 1967, Theoretical and Methodological Basis of Continuous Culture of Micro-organisms (editor and co-author) 1964; contributed to Conditions of World Order 1968, Nobel Symposium 14 1970. *Leisure interests:* music, arts, gardening, sports. *Address:* Na Dolinách 18, Prague 4, Czechoslovakia. *Telephone:* Prague 437092.

MALEK, Reda; Algerian diplomatist and politician; b. 1931, Batna; ed. in Paris; Editor-in-Chief El-Moudjahid (weekly

paper of F.L.N.); Amb. to Yugoslavia 1963-65, to France 1965-70, to U.S.S.R. 1970-78, Minister of Information and Culture 1978-79. *Address:* c/o Ministry of Information and Culture, Algiers, Algeria.

MALEKOU, Paul, L. EN D.; Gabonese politician; b. 17 Nov. 1938, Fougamou; five c.; ed. Univs. of Lille and Paris, Inst. des Hautes Etudes d'Outre-Mer, and admin. course, Strasbourg; Head, Interregional Service for Labour, Centre-Gabon, Port-Gentil 1963-64; Minister of Labour and Social Affairs 1964-65, of Nat. Educ., Youth and Sports, subsequently of Co-ordination in charge of Nat. Educ. 1965-68; Minister Del. at the Presidency, in charge of Co-ordination and Foreign Affairs Jan.-July 1968; Minister of Public Works and Transport 1968-69, of Public Works and charged with Special Functions at the Presidency 1969-70, of Public Works, Housing and Urbanism 1970; Minister of State in charge of Public Works, Housing and Urbanism 1970-74, concurrently of Land Registry 1972-74; Dir.-Gen. Agence pour la Securité de la Navigation Aérienne en Afrique et au Madagascar 1974-; Commdr., Etoile Equatoriale, Palmes Acad., Ordre Nat. Guinéen, Commdr., Légion d'honneur, Grand Officier de l'Ordre Nat. du Lion (Senegal) and numerous other decorations. *Leisure interests:* hunting, fishing, flying. *Address:* 32-38 Avenue Jean-Jaurès, Dakar, Senegal. *Telephone:* 23-10-40; 22-40-79.

MALENKOV, Georgiy Maksimilianovich; Soviet politician; b. 8 Jan. 1903; ed. Moscow Higher Tech. Coll. Political Commissar Eastern and Turkestan Districts during Revolution; fmr. mem. CP; fmr. Sec. Bolshevik Students' Org.; worked Cen. Cttee. CP 1925-30, Organizing Sec. Moscow Section of Party 1930, later Head Personnel Dept. of Cen. Cttee., and mem. of Secr.; dep. of the Supreme Soviet 1937-57; mem. Cttee. for State Defence 1941; mem. Cttee. for Econ. Rehabilitation of Liberated Districts; Deputy Chair. Council of Ministers 1946-53, Chair. 1953-55; Deputy Chair. Council of Ministers and Minister of Power Stations 1955-57; [illegible] fmr. Politburo of CP 1946-53; mem. Presidium of Cen. Cttee. 1953-57; Man. of Ust-Kamenogorsk Power Station 1957-63; retd. 1963; awarded title Hero of Socialist Labour 1943, Hammer and Sickle Gold Medal, Order of Lenin (twice), and other decorations. *Address:* c/o Ministry of Social Security of R.S.F.S.R., 14 Shabolovka, Moscow, U.S.S.R.

MALERBA, Luigi; Italian author and scriptwriter; b. 11 Nov. 1927, Berceto (Parma); s. of Pietro and Maria Olari; m. Anna Lapenna 1962; two s.; ed. Liceo Classico Romagnosi di Parma, and Faculty of Law, Univ. of Parma; Dir. of review Sequenze 1948-51; Advertising Man. of review Discoteca 1956-60, Editor 1960-65; Premio Selezione Campiello for Il Serpente 1966; Golden Nymph Award for best TV film, Int. TV Festival, Monte Carlo for Ai poeti non si spara; Premio Sila for Salto Mortale 1969; Prix Médicis (France) for best non-French novel for Salto Mortale 1970. *Publications:* La scoperta dell' alfabeto 1963, Il Serpente 1966, Salto mortale 1968; Millemosche [illegible] cavallo, Millemosche mercenario, Millemosche fuoco e fiamme, Millemosche innamorato, Millemosche e il leone Millemosche [illegible] la fine del mondo, Millemosche alla ventura, (all with Tonino Guerra, illustrations by Adriano Zannino) 1969-71, Il Protagonista 1973, Le rose imperiali 1974, Mozziconi 1975, Storiette 1977, Le parole abbandonate 1977, Pinocchio con gli stivali 1977, Il pataffio 1978. *Leisure interests:* agriculture and protection of nature. *Address:* Via Tor Millina 31, Rome, Italy. *Telephone:* 6568391.

MALETA, Alfred, LL.D.; Austrian politician; b. 15 Jan. 1906, Mödling; s. of Otto Maleta and N. Pagler; m. Gerda Scheid 1946; ed. High School and Univ. of Graz; First Sec. Austrian Chamber of Workers and Employees, and Fed. of Trade Unions of Upper Austria 1934-38; arrested by Gestapo 1938 and spent three years in concentration camps; Mil. service till 1945; Head Fed. of Workers and Employees of Upper Austria 1945; mem. Nat. Ass. 1945; Sec.-Gen. Austrian People's Party (ÖVP) 1951-60, Deputy Fed. Chair. 1960; Chair. Club of ÖVP mems. of Nat. Ass. 1953-62; Fed. Chair. Austrian Fed. of Workers and Employees 1960; Deputy Chair. Nouvelles Equipes Internationales of Fed. of Christian Dem. Parties in Europe 1955-60; 3rd Pres. of Nat. Ass. 1961-62, Pres. 1962-70. *Publications:* various publications and newspaper articles. *Address:* Laudongasse 16, Vienna VIII, Austria.

MALFATTI, Franco Maria; Italian politician; b. 13 June 1927, Rome; Nat. Del. of Youth Movt. of Christian Dem. Party until 1952; worked in headquarters of Christian Dem. Party 1952-64; mem. Chamber of Deputies 1958-; Under-Sec. of State for Foreign Affairs June-Dec. 1968; Minister of State Participations Dec. 1968-Aug. 1969; Minister for Posts and Telecommunications Aug. 1969-June 1970, of Educ. 1973-78, of Finance March 1978-; fmr. mem. of numerous parl. cttees. on finance, educ., home and foreign affairs, etc.; Pres. of combined Comm. of European Communities July 1970-March 1972. *Address:* Camera dei Deputati, Rome, Italy.

MALFATTI DI MONTETRETTO, Baron Francesco; Italian diplomatist; b. 13 Jan. 1920, Vienna; s. of Giuseppe M. di M. and Felicita Newickluf; m. Adonella Brenciaglia 1945; two s.; ed. Lycée Janson-de-Sailly, Paris, and Univ. of Rome; Army Officer 1939-43; Resistance Movement 1943-45; on mission to London 1945; Sec. to Deputy Prime Minister 1946; Vice-Chef de Cabinet Ministry of Foreign Affairs 1946; Sec. Italian Mission for Econ. Negotiations with U.S. 1947; entered Diplomatic Service 1947; Consul in Geneva 1948; Consul-Gen., Munich 1949, also on mission to Berlin 1949; then Ministry of Foreign Affairs posts; Counsellor, Italian Embassy, Paris 1956, Minister-Counsellor 1958-63; later Chef de Cabinet, Ministry of Foreign Affairs; Diplomatic Counsellor to Pres. of Repub. 1965-69; Amb. to France 1969-77; mil. awards for bravery in the war and in the Resistance. *Leisure interests:* painting, history, tennis. *Address:* Ambassade d'Italie, 47 rue de Varenne, 75007 Paris, France. *Telephone:* 548-38-90.

MALHERBE, Ernst G., PH.D.; South African educationist; b. 8 Nov. 1895, Luckhoff, Orange Free State; s. of E. G. Malherbe and Ella Rabie; m. Janie Nel 1922; three s. one d.; ed. Stellenbosch and Columbia Univs.; studied Oxford, The Hague, Amsterdam, Germany; Fellow, Teachers' Coll., Columbia Univ. 1923-24; S. African rep. British Assn. Centenary Meeting, London 1931; fmrly. teacher Cape Town Training Coll.; Lecturer in Educational Psychology, Stellenbosch Univ.; Sr. Lecturer in Educ., Cape Town Univ.; Chief Investigator, Educ. Section, Carnegie Poor White Research Comm. 1928-32; mem. Govt. Comm. to Investigate Native Educ. in S. Africa 1935; Dir. Nat. Bureau of Educ. and Social Research for S. Africa 1929-39; Dir. of Census and Statistics for Union 1939-45; Lt.-Col. Dir. Army Educ. Services 1940-45; Dir. Mil. Intelligence Union Defence Forces 1942-45; Principal and Vice-Chancellor Univ. of Natal 1945-65; Pres. S. African Assn. for the Advancement of Science 1950-51; Pres. S. African Inst. of Race Relations 1966-68; Hon. M.A. (Sydney); Hon. LL.D. (Cambridge, Queens, Melbourne, McGill, Cape Town, Natal, Rhodes, Witwatersrand, St. Andrews). *Publications:* Education in South Africa 1652 to 1922 1925, Education and the Poor White 1931, Education in [illegible] Changing Empire 1932, Educational Adaptations in [illegible] Changing Society (Editor) 1937, Entrance Age of University Students in Relation to Success 1938, Educational and Social Research in South Africa 1939, The Bilingual School 1943, Race Attitudes and Education 1946, Our Universities and the Advancement of Science 1951, Die Outonomie van ons Universiteite en Apartheid 1957, Education for Leadership in Africa 1960, Problems of School Medium in [illegible] Bilingual Country 1962, The Need for Dialogue 1967, Education and the Development of South Africa's Human Resources 1967, The Nemesis of Docility 1968, Bantu Manpower and Education 1969, Differing Values 1973, Education in South Africa 1923 to 1975 1977. *Leisure interests:* swimming, golf, gardening. *Address:* By-die-See, Salt Rock, 4391, Natal, South Africa. *Telephone:* Umhlali 103.

MALIETOA TANUMAFILI II, H.H., C.B.E.; Samoan politician; b. 4 Jan. 1913; ed. Wesley Coll., Auckland, New Zealand; Adviser, Samoan Govt. 1940; mem. N.Z. del. to UN 1958; fmr. mem. Council of State; Jt. Head of State of Western Samoa 1961-63, Sole Head 1963-; Fautua of Maliena. *Address:* Government House, Vailima, Apia, Western Samoa, South Pacific.

MALIK, Abdul Mutaleb, M.D.; Pakistani doctor and politician; b. 1905; ed. Calcutta Univ., Santiniketan, Bengal and Vienna Univ.; practised medicine in Calcutta; joined All-India Muslim League 1936; fmr. [illegible] Exec. of All-India Trades Union Congress, Sec. of All-India Seafarers' Fed., Pres. Indian Quartermasters' Union and Indian Sailors' Union Calcutta; Pres. of All-Pakistan Trades Union Fed. 1947; fmr. Minister of Agric., Co-operation, Forests, Fisheries and Labour, E. Bengal; Minister in charge of Minorities Affairs 1950-51; Minister of Labour and Works and Health 1949-55; Chair. of Governing Body of ILO 1953-54; Amb. to Switzerland 1955-58, Chinese People's Repub. 1958-61; Philippines 1961-65, High Commr. in Australia 1965-67; Minister of Health, Labour and Family Planning 1969-71; Gov. of E. Pakistan (now Bangladesh) 1971; arrested Dec. 1971, sentenced to life imprisonment Nov. 1972, released Dec. 1973.

MALIK, Adam; Indonesian politician and diplomatist; b. 22 July 1917, Pematang Siantar, N. Sumatra; ed. Dutch Primary school and a religious school; Chair., Partai Indonesia in Pematang Siantar and Medan, N. Sumatra 1934; founded Antara Press Bureau (later Antara News Agency), Java 1937; mem. Exec. Bd. Gerindo Party 1940-41; later mem. Persatuan Perdjoeangan (Struggle Front) (a movement to maintain independence); [illegible] founder of Partai Rakjat (People's Party) 1946; Exec. mem. Murba Party 1948-64 (when party [illegible] banned); elected to House of Reps. 1956, mem. Provisional Supreme Advisory Council 1959; Amb. to U.S.S.R. and Poland 1959-62; mem. Exec. Bd. Antara 1962; Minister of Com-

merce 1963-65; Minister-Co-ordinator for the Implementation of Guided Economy 1965; Minister of Foreign Affairs 1966-77; mem. House of Reps. May 1977-, Speaker Oct. 1977-March 1978, also Chair. People's Consultative Ass. Oct. 1977-March 1978; Vice-Pres. of Indonesia March 1978-; Pres. UN Gen. Ass. 1971-72; rep. of Indonesia at various int. confs. and has led Indonesian del. to sessions of UN Gen. Ass. since 1966. *Address:* Office of the Vice-President, Medan Merdeka Selatan 6, Jakarta; Jalan Diponegoro 29, Jakarta, Indonesia (Home).

MALIK, Bidhubhusan, LL.D.; barrister-at-law; Indian lawyer; b. 11 Jan. 1895, Cuttack, Orissa State; s. of Chandra-Sekhar and Urmila Malik (née Ghosh); m. Leelabati Mitra 1916 (died 1941); two s.; Advocate, Allahabad High Court 1919; called to Bar, Lincoln's Inn 1923; mem. Judicial Cttee. Benares State 1941-44; Special Counsel, Income Tax Dept. 1943-44; Puisne Judge, High Court Allahabad 1944-47, Chief Justice High Court of Uttar Pradesh, Allahabad 1947-55 (acting Gov. U.P. March-April 1949); Indian Rep. to Fed. of Malaya Constitutional Comm. 1956-57; Commr. for Linguistic Minorities 1957-62; Sr. Advocate, Supreme Court of India; UN Constitutional Adviser for Congo 1962; Constitutional Adviser, Kenya Conference, London 1962; Adviser to Mauritius Govt. at Mauritius Conf. 1965; Vice-Chancellor, Calcutta Univ. 1962-68, mem. Calcutta Univ. Senate, Allahabad Univ. Exec. Council; Vice-Pres. Vishwa Hindu Dharm Sammelan; Pres. Ishwar Saran Degree Coll., Allahabad, Jagat Tarau Girls' Degree Coll., Allahabad Univ.; Dir. Swadeshi Cotton Mills, Kanpur. *Publications:* books on various branches of law. *Leisure interests:* golf, reading, writing and gardening. *Address:* 23 Muir Road, Allahabad, U.P., India. *Telephone:* 2589.

MALIK, Charles Habib, PH.D.; Lebanese philosopher, educationist and diplomatist; b. 1906, Btirram, Al-Koura; s. of Dr. Habib K. and Zareefi K. Malik; m. Eva Badr 1941; one s.; ed. American Tripoli Boys' High School, American Univ. of Beirut and Harvard and Freiburg Univs.; Instructor Maths and Physics, American Univ., Beirut 1927-29, Instructor in Phil. 1937-39, Adjunct Prof. 1939-43, Assoc. Prof. 1943-45, Head of Dept. 1939-45, Dean of Graduate Studies and Prof. of Phil. 1955-60, Distinguished Prof. of Philosophy 1962-; Minister to U.S.A. 1945-53, Amb. 1953-55; Minister to Cuba 1946-55; mem. and Chair. Del. to UN, 1945-54, Chair. 1956-58; Pres. 13th Session, UN Gen. Ass. 1958-59; Chair. of various UN Cttees. and Sub-Cttees.; rep. on Econ. and Social Council, Second-Eighth sessions, and Pres. of Council 1948; rep. on Human Rights Comm. and Rapporteur of Comm. 1947-51, Chair. of Comm. 1951-52; mem. UN Security Council 1953-54, sometime Pres.; Gov. for Lebanon, Int. Bank and Monetary Fund 1947-52, Chair. Del. Conf. for Conclusion and Signing Peace Treaty with Japan, San Francisco 1951; Minister of Foreign Affairs 1956-58, of Nat. Educ. and Fine Arts Nov. 1956-57; M.P. for Al-Koura 1957-60; Grand First Magistrate of the Holy Orthodox Church; Pres. World Council of Christian Educ. 1967-71; Vice-Pres. United Bible Societies 1966-72; Fellow Inst. for Advanced Religious Studies at the Univ. of Notre Dame, Indiana 1969; Hon. life mem. American Bible Soc.; mem. Société européenne de Culture; Fellow A.A.A.S., American Geog. Soc.; mem. American Philos. Assen., American Philos. Soc., American Acad. of Arts and Sciences, Acad. of Human Rights, etc.; founding mem. Lebanese Acad.; Hon. Rector Univ. of Dubuque 1951; Gold Medal, Nat. Institute of Social Sciences, New York; numerous hon. degrees and decorations. *Publications:* War and Peace 1950, Problems of Asia 1951, Problem of Coexistence 1955, Christ and Crisis 1962, Man in the Struggle for Peace 1963, God and Man in Contemporary Christian Thought 1970, God and Man in Contemporary Islamic Thought 1972; numerous other published works and articles. *Leisure interests:* hiking, walking, spiritual exercises, discussion with friends. *Address:* American University of Beirut, Beirut, Lebanon; and Harvard Club, 27 West 44th St., New York, U.S.A.

MALIK, Gunwantsingh Jaswantsingh, M.A.; Indian diplomatist; b. 29 May 1921, Karachi; s. of late Shri Jaswant Singh Malik and Balwant Kaur (Bhagat) Malik; m. Gurkirat Kaur 1948; two s.; R.A.F. 1943; Indian Foreign Service 1947-, Second Sec., Indian Embassy, Brussels 1948-50, Addis Ababa 1950; Under-Sec. Ministry of External Affairs 1950-52; First Sec. and Chargé d'Affaires Argentina 1952-56; in Japan 1956-59; Counsellor (Commercial) and Asst. Commr. Singapore 1959-63; Dir. Ministry of Commerce 1963-64; Jt.-Sec. Ministry of External Affairs 1964-65; Amb. to Philippines 1965-68, to Senegal, concurrently to the Ivory Coast, Mauritania, The Gambia and Upper Volta 1968-70, to Chile (also accred. to Peru, Ecuador and Colombia) 1970-74, to Thailand Dec. 1974-77; Leader trade del. to S. America 1964; mem. del. to ECAFE 1965, to Group of 77 in Lima 1971, to Gov. Body of UNDP 1971, to UNCTAD III 1972, to ESCAP 1975; Chair. Tech. and Drafting Cttee., ESCAP 1976; Deputy Chair. Cttee. of the Whole 1977. *Leisure interests:* photography and literature.

MALIK, Yakov Aleksandrovich; Soviet diplomatist; b. 6 Dec. 1906, Ostroverkhovka, Zmievka district, Kharkov region, Ukraine; ed. Kharkov Inst. of Econs.; Graduated from Moscow Inst. for Diplomatic and Consular Officials 1937; Asst. Chief, Press Dept., Ministry of Foreign Affairs 1937-39; Counsellor, Tokyo 1939-42; Amb. to Japan 1942-45; Political Adviser, Allied Council for Japan 1946; Deputy Minister of Foreign Affairs 1946-53; Perm. Rep. of U.S.S.R. to UN, concurrently U.S.S.R. Rep. on UN Security Council 1949-52; Amb. to U.K. 1953-60; Deputy Minister of Foreign Affairs 1960-; Perm. Rep. to UN, New York 1967-76; Order of Lenin (twice), Order of Red Banner (twice), Order of October Revolution and Medals. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

MALIKYAR, Abdullah; Afghan diplomatist; b. 1909, Kabul; s. of Abdul Ahmad and Alamtab Malikyar; m. Anisa A. Seraj 1949; four s. four d.; ed. Isteklal Coll., Kabul, and Franco-Persian Coll., Teheran; Sec. and Gen. Dir., Prime Minister's Office 1931-35; Head, Govt. Purchasing Office, Europe 1936-40; Vice-Pres. Cen. Bank and Deputy Minister of Commerce 1941-42; Gov. of Herat 1942-47, 1951-52; Minister of Communications 1948-50; Pres. Hillmand Valley Authority Projects 1953-62; Minister of Commerce 1955-57, of Finance 1957-June 1964, Deputy Prime Minister 1963-Feb. 1964; Acting Prime Minister Feb.-June 1964; Amb. to U.K. 1964-67, to U.S.A. 1967-78, concurrently to Argentina, Brazil, Canada, Mexico; Sardar Ali Reshteen Decoration. *Leisure interests:* reading, fishing, gardening, photography. *Address:* c/o Minister of Foreign Affairs, Kabul, Afghanistan.

MALINEN, Pekka Kullervo M.A.; Finnish diplomatist; b. 11 June 1921, Viipuri; m. Hilkka Malinen 1945; ed. Univ. of Helsinki; Man. Dir. Oulu Chamber of Commerce 1948-50; Econ. Editor Kaleva 1950-52; Sec. Gen. Finnish People's Party 1952-60; Minister of Defence, Minister of Social Affairs 1957; entered Foreign Service 1960; Amb. to Cairo 1969-74; Dir. Gen. Ministry of Foreign Affairs 1975-78; Amb. to the OECD, Paris 1978-. *Address:* Permanent Delegation of Finland, 6 rue de Franqueville 75016, Paris, France.

MALINGA, Norman Zombodze Magugu, M.A.; Swazi diplomatist; b. 17 Nov. 1938, Zombodze; s. of Joel Mashehsa and Dora Malinga; m.; three c.; ed. Mphumulo Teacher Training Coll., Natal, Fordham Univ. and Columbia Univ., U.S.A.; school teacher 1962-65; Librarian/Warden, Staff Training Inst., Swaziland 1965-68; Asst. Establishment Officer, Staff Training Inst. 1968; Asst. Sec., Dept. of Foreign Affairs 1968-70; Swaziland Counsellor in East Africa 1970-71; Dir. of Broadcasting and Information 1971-72; Perm. Rep. to UN 1972-. *Leisure interests:* painting, soccer. *Address:* Permanent Mission of Swaziland to United Nations, 866 United Nations Plaza, Suite 420, New York, N.Y. 10017 (Office); 261 Overlook Road, New Rochelle, New York, N.Y. 10804, U.S.A. (Home). *Telephone:* (914) 235-0204 (Home).

MALINSCHI, Vasile, DR.ECON.; Romanian economist; b. 1 May 1912; m. Nathalie Malinschi 1944; two d.; ed. Commercial and Industrial Acad., Bucharest and Law Coll., Bucharest; Official Nat. Bank 1938; Prof. of the Econ. Acad. 1949-, Chancellor 1949-52; Minister for Home Trade 1949-54; Vice-Pres. State Planning Cttee. 1954-56; mem. Presidium of the Romanian Acad. 1955-73; Gov. Nat. Bank of the Socialist Repub. of Romania 1963-77; Vice-Pres. Econs. Soc.; mem. Leading Cttee., Dem. Students' Front 1937-40, Cen. Cttee., Romanian CP 1955-; mem. Nat. Comms. for UNESCO and FAO 1960-68; mem. Acad. of Social and Political Science 1970-, Int. Assen. of Sociology, Int. Assen. of Agricultural Econ. and Int. Assen. of Economists; several orders and medals. *Publications:* Socialist Economy 1939, The Land Reform 1947, The Agrarian Problem 1958, Agrarian Economy and Rural Sociology 1960, Studies of Economy 1967, Agrarian Essays 1968, Land Rent 1970; jt. author: Romanian Industry 1964, Economic Development of Romania 1965, Land Reforms in the Developing Countries 1973; several other books and articles on economics and banking. *Address:* Strada Pictor Iscovescu 32, Bucharest, Romania (Home). *Telephone:* 33-63-88 (Home).

MALLABAR, Sir John, Kt., F.C.A.; British shipbuilder and chartered accountant; b. 19 July 1900, Liverpool; s. of Herbert and Gertrude Mallabar; m. 1st Henrietta Goodwin-Norris; m. 2nd Annie Emily (Pat) widow of Richard Howard Ford; no c.; ed. Sunbury House School and King's Coll., London; Founder and Sr. Partner J. F. Mallabar & Co., Chartered Accountants, 1929-; Chair. Harland & Wolff Ltd. 1966-70; Chair. Cttee. on Govt. Industrial Establishments 1968-70. *Leisure interest:* salmon fishing. *Address:* 39 Arlington House, St. James's, London, S.W.1, England.

MALLAKH, Kamal El, M.A.; Egyptian archaeologist; b. 1918; ed. Cairo Univ. and Mil. Eng. Coll.; entered Govt. Antiquaries Dept. 1944, Dir. of Giza Area and Lower Egypt 1945; worked as illustrator and art critic; art critic, Al Ahram 1945, Akhbar el Yom 1950-; art and archaeology commentator, Egyptian Broadcasting Service 1950-; held one-man exhbns. 1939 and 1949; two paintings in Cairo Museum of Modern Art; Gold Cedar Decoration, Lebanon. *Publications:* Five books on art, archaeology and the discovery of solar boats. *Address:* 173 Twenty-Sixth of July Street, Zamalek, Cairo, Egypt.

MALLART, José; Spanish educationalist and psychologist; b. 10 June 1897, Espolla-Gerona; s. of Juan and Maria Mallart; m. Genoveva Palacios 1929; three c.; Prof. Nat. Psychotechnic Inst. Madrid 1927-; founder Spanish Cttee. for scientific org. of labour 1928; Insp.-Gen. of Workers' Educ. 1933; mem. Cttee. for Agricultural Educ. 1934; Prof. Social School Madrid 1948, Nat. Inst. for Rationalisation 1949; UNESCO expert in Ecuador 1957-; mem. Exec. Cttee., Int. Assn. of Applied Psychology 1964; Editor Revista de Psicología General y Aplicada 1964; Gold Medal, Mérito en el Trabajo 1975. *Publications:* La educación activa 1924, Colonias de educación 1930, La elevación moral y material del Campesino 1933, Organización científica del trabajo agrícola 1934, La Organización económica internacional y el problema de la paz 1941, Organización científica Trabajo 1942, Orientación Funcional y Formación Profesional 1946, El Mundo Económicosocial que nace 1947, Obras de dignificación humana 1948, Cuadernos de Organización Científica del Trabajo 1954-60. *Leisure interests:* music, forestry, gardening. *Address:* San Julio 5, Madrid 2, Spain. *Telephone:* 2617850.

MALLE, Louis; French film director; b. 30 Oct. 1932; one s.; Asst. to Commander Cousteau on La Calypso 1953-55; co-producer Le Monde du Silence 1955; technical collaborator with Robert Bresson for Un condamné à mort s'est échappé. *Films:* Ascenseur pour l'échafaud 1957 (Prix Louis-Delluc 1958), Les amants 1958 (Special Jury Prize, Venice Film Festival 1958), Zazie dans le métro 1960, Vie privée 1962, Le feu follet (special Jury Prize, Venice Film Festival 1963), Viva María 1965, Le voleur 1966, William Wilson 1967, Calcutta 1968, Le souffle au coeur 1971, Humain trop humain 1974, Lacombe Lucien (Best Film Award, Soc. of Film and TV Arts) 1974, Black Moon 1975, Pretty Baby 1978. *Leisure interest:* bicycle racing. *Address:* c/o Nouvelles éditions de films, 92 Champs-Elysées, 75008 Paris (Office); Le Couel, 46260 Limogne en Quercy, France (Home).

MALLEA, Eduardo; Argentine writer and journalist; b. 14 Aug. 1903, Bahía Blanca; s. of Narciso S. Mallea and Manuela Aztiria; m. Helena Muñoz Larreta 1944; ed. Colegio Nacional and Faculty of Law, Buenos Aires; mem. Bd. of Dirs. of Sur and of Realidad; fmr. Pres. Argentine Soc. of Writers; literary editor on staff of La Nación; First Nat. Prize for Literature 1946, 1970; mem. Argentine Acad. of Letters; fmr. Amb. to UNESCO; Hon. D.Hum.Litt. (Ann Arbor Univ. Michigan). *Publications:* Cuentos para una Inglesa Desesperada 1926, Nocturno Europeo, Conocimiento y Expresión de la Argentina 1935, La Ciudad junto al Río Inmóvil 1936, Historia de una Pasión Argentina 1937, Fiesta en Noviembre 1938, Meditación en la Costa 1940, El Sayal y la Púrpura 1941, Todo Verdor Perecerá 1941, La Bahía de Silencio 1940, Las Aguilas 1941, Rodeada está de sueño 1944, El retorno 1946, El Vínculo 1946, Los Enemigos del Alma 1950, La Torre 1951, Chaves 1953, La sala de espera 1953, Notas de un novelista 1954, Simbad 1957, El gajo de enebro 1957, Posesión 1959, La razón humana 1960, La vida blanca 1960, Las travesías 1962, La barca de hielo 1967, La Penúltima Puerta 1970, Gabriel Andaral 1971, Triste piel del universo 1971. *Address:* c/o Editorial Sudamericana, S.A., Humberto 1° 545, Buenos Aires (Office); Posadas 1120, Buenos Aires, Argentina (Home). *Telephone:* 41-5182.

MALLET, Robert Albert Marie Georges; French university rector and author; b. 15 March 1915, Paris; ed. Faculté des Lettres and Faculté de Droit, Paris; Dir., Ecole Nationale des Lettres, Tananarive, Malagasy Repub. 1959, subsequently Dean, Faculty of Letters, Madagascar; Rector, Acad. d'Amiens 1964-68, Univ. of Paris 1969-; Pres. Assn. des universités partiellement ou entièrement de langue française 1972-75, Hon. Pres. 1975-; Vice-Pres. French PEN Club 1976-; mem. cttee. of experts to found UN Int. Univ.; mem. Admin. Council O.R.T.F. 1968-; mem. Universal Movement for Scientific Responsibility (Pres. 1974-); Assn. Int. Théâtre d'Orsay (Pres.), Fed. mondiale des villes jumelées et cités unies (Pres. Univ. Cttee.); Commdr., Légion d'honneur; Commdr. des Arts et Lettres; Croix de guerre; Commdr., Palmes académiques; Commdr. de l'Ordre Nat., Malagasy; Silver Medal, City of Paris 1952. *Publications:* poems: Le poème du sablier, La [illegible] remous, Quand le miroir s'étonne; plays: Le train de nuit, L'équipage au complet; novel: Région inhabitée; numerous other publications. *Address:* 5 rue de la Sorbonne, Paris 5e, France.

MALLOUM, Brig.-Gen. Félix; Chad army officer; b. 1932, Fort-Archambault (now Sarh); ed. Mil. Schools, Brazzaville, Fréjus, Saint-Maixent; served in French Army, Indochina 1953-55, Algeria; joined Chad Nat. Army; Lieut-Col. 1961, Capt. 1962, Col. 1968; fmr. Head of Mil. Corps at the Presidency; Chief of Staff of the Army Dec. 1972-Sept. 1972; C.-in-C. of the Armed Forces 1972-73; under house arrest June 1973, released April 1975 after coup deposed Pres. Tombalbaye; Head of State, Chair. Supreme Mil. Council 1975-79, Pres. Council of Ministers, Minister of Defence and Ex-Servicemen 1975-79; Brig.-Gen. 1975.

MALONE, Dumas, M.A., PH.D., LL.D., LITT.D., L.H.D.; American historian; b. 10 Jan. 1892, Coldwater, Miss.; s. of John and Lillian (Kemp) Malone; m. Elisabeth Gifford 1925; one s. one d.; ed. Emory Coll., Yale Univ. Assoc. Prof. and Prof. of History Univ. of Virginia 1923-29; Ed. Dictionary of American Biography 1929-31 and Ed.-in-Chief 1931-36; Dir. Harvard Univ. Press. 1936-43; Prof. of History, Columbia Univ. 1945-59; Editor History Book Club 1948-; Guggenheim Fellow 1951-52, 1958-59; Man. Editor Political Science Quarterly 1953-58; Thomas Jefferson Prof. of History, Univ. of Virginia 1959-62, Biographer in Residence 1962-; Visiting Scholar Phi Beta Kappa 1965-66, 1967-68; Wilbur Lucius Cross Medal, Yale Univ. 1972, John F. Kennedy Medal, Mass. Historical Soc. 1972; Pulitzer Prize in History (for 5 vols. of Jefferson and His Time) 1975. *Publications:* Public Life of Thomas Cooper 1926, Edwin A. Alderman: A Biography 1940; Jefferson and his Time: Vol. I: Jefferson the Virginian 1948, Vol. II: Jefferson and the Rights of Man 1951, Vol. III: Jefferson and the Ordeal of Liberty 1962, Vol. IV: Jefferson the President: First Term 1970, Vol. V: Jefferson the President: Second Term 1974; Story of the Declaration of Independence 1955, Empire for Liberty (with Basil Rauch) (2 vols.) 1960 (6 vol. edn. with individual titles 1965), Thomas Jefferson as Political Leader 1963; Editor Correspondence between Thomas Jefferson and P. S. du Pont de Nemours 1930, Dictionary of American Biography (Joint Editor Vols. IV-VII, Editor Vols. VIII-XX) 1929-36. *Address:* Alderman Library, University of Virginia, Charlottesville, Va. (Office); 2000 Lewis Mt Road, Charlottesville, Va. 22903, U.S.A. (Home). *Telephone:* 804-295-9735.

MALONE, Thomas Francis, SC.D.; American geophysicist; b. 3 May 1917, Sioux City, Iowa; s. of John and Mary (Hourigan) Malone; m. Rosalie A. Doran 1942; six c.; ed. S. Dakota State School of Mines and Technology and Massachusetts Inst. of Tech. Mem. of Staff MIT 1941-43, Asst. Prof. 1943-51, Assoc. Prof. 1951-54; Dir. Travelers Weather Service and Travelers Weather Research Center for Travelers Insurance Co., Hartford, Conn. 1954-56, Dir. of Research Travelers Insurance Co. 1956-, Second Vice-Pres. 1964-66, Vice-Pres. 1966-68, Sr. Vice-Pres. 1968-70; Dean of Graduate School, Univ. of Connecticut 1970-73; Dir. Holcomb Research Inst., Butler Univ. 1973-; Sec.-Gen. Scientific Cttee. on Problems of Environment 1970-72; Pres. Inst. of Ecology 1978-; Vice-Pres. Int. Council of Scientific Unions 1970-72; Treas. Int. Council of Scientific Unions 1978-; Foreign Sec. Nat. Acad. of Sciences 1978-; Hon. D.Eng., Hon. L.H.D.; Losey Award, Inst. of Aerospace Sciences 1960; Charles Franklin Brooks Award 1964 and Cleveland Abbe Award 1968 (American Meteorological Soc.). *Publications:* numerous articles in scientific journals. *Address:* Holcomb Research Institute, Butler University, Indianapolis, Ind. 46208 (Office); 6421 Sunset Lane, Indianapolis, Ind. 46260, U.S.A. (Home). *Telephone:* 317-283-9421 (Office); 317-257-9986 (Home).

MALOTT, Deane Waldo, LL.D., D.C.S.; American university president; b. 10 July 1898, Abilene, Kan.; s. of Michael H. and Edith G. (Johnson) Malott; m. Eleanor S. Thrum 1925; one s. two d.; ed. Kansas and Harvard Univ.; Asst. Dean, Harvard Business School 1923-29, Assoc. Prof. of Business 1933-39; Vice-Pres. Hawaiian Pineapple Co., Honolulu 1929-33; Chancellor, Univ. of Kansas 1933-51; Pres. Cornell Univ. 1951-63, Pres. Emer. 1963-; Consultant, U.S. Army Air Corps. 1943-45; Chair. Emer. Pacific Tropical Botanical Garden; mem. Business Council 1944-; Consultant to Assn. of American Colls. 1963-69; Dir. First Nat. Bank, Ithaca, Trustee, Teagle Foundation, William Allen White Foundation, Univ. of Kansas Endowment Assn.; Hon. LL.D. (Washburn, Bryant Coll., Hamilton Coll., Calif., Juniata Coll., Univ. of N.H., Emory, Liberia); D.C.S. (Pittsburgh); D.H.L. (Long Island). *Publications:* (with Philip Cabot) Problems in Public Utility Management 1927, (with J. C. Baker) Introduction to Corporate Finance 1936, (with J. C. Baker and W. D. Kennedy) On Going into Business 1936, Problems in Agricultural Marketing 1938, (with B. F. Martin) The Agricultural Industries 1939. *Address:* 322 Wait Avenue, Cornell University, Ithaca, N.Y., U.S.A. *Telephone:* 607-256-4010.

MALOTT, Robert H., M.B.A.; American business executive; b. 1926, Boston; m. Elizabeth Malott; one s. two d.; ed. Kansas Univ., Harvard Graduate School of Business Admin., New York Univ.

Law School; Asst. to Dean, Harvard Graduate School of Business Admin. 1950-52; joined FMC 1952, Controller Niagara Chemical Div. 1955, Man. Dapon Dept. of Organic Chemicals Div. 1959, Div. Man. 1963, Vice-Pres. American Viscose Div. 1965, Vice-Pres. FMC 1966, Exec. Vice-Pres., Planning 1967, Man. Machinery Divs., Dir. 1970, Exec. Cttee. 1971, Pres. and Chief Exec. Officer 1972-77, Chair. of Bd. 1973-; Dir. Standard Oil Co. (Ind.), Bell & Howell Co., Continental Illinois Corpn., Data Documents Inc.; Busi- Council, Mfg. Chemists Assn., Exec. Council of Harvard Business School Assn., Nat. Council for U.S.-China Trade, Conf. Bd., Stanford Research Inst. Council. *Address:* FMC Corporation, 200 East Randolph Drive, Chicago, Ill. 60601, U.S.A.

MALTA, Eduardo; Portuguese painter and writer; b. 1900; ed. Fine Arts School, Oporto; Dir. Museum of Contemporary Art, Lisbon; mem. Nat. Acad. of Fine Arts, Lisbon; corresp. Royal Acad. of Arts of San Fernando (Spain); two Prize Medals and two First Medals (Nat. Soc. of Fine Arts, Lisbon); Columbano Prize (Portuguese Govt.); Luciano Freire Prize (Nat. Acad. of Fine Arts, Lisbon); Gold Medal (Int. Exhibition, Paris 1937). *Works include:* portraits of: King Alfonso XIII, Primo de Rivera Getulio l'argas, King Umberto of Italy, Marshal Craveiro Lopes, Oliveira Salazar, Mrs. Winston, Mrs. Guggenheim, Ricardo Espirito Santo, Barão de Saavedra. *Publications include:* O papagaio Azul 1925, Montanhas Russas 1928, Do meu oficio de pintar 1935, No Mundo dos Homens 1936, Retratos e Retratados 1938, Vários Motivos de Arte. *Address:* 30 Rua Victor Cordon, Lisbon, Portugal.

MALTSEV, Nikolay; Soviet politician; b. 1928; fmr. Deputy Minister of Oil, Minister of Oil April 1977-; Order of the October Revolution 1978. *Address:* c/o Council of Ministers, The Kremlin, Moscow, U.S.S.R.

MALTSEV, Viktor Fyodorovich; Soviet engineer and diplomatist; b. 22 June 1917, Dnepropetrovsk, Ukraine; ed. Moscow Inst. of Railway Engineers; with Ministry of Railways 1941-61; Chair. Soviet of Irkutsk Region, E. Siberia 1961-67; Amb. to Sweden 1967-71, to Finland 1971-73, to India 1974-77; First Deputy Minister of Foreign Affairs 1978-; mem. CPSU 1945-; Cand. mem. CPSU Cen. Cttee. 1971-76. *Address:* Ministry of Foreign Affairs, Moscow, U.S.S.R.

MALULA, H.E. Cardinal Joseph-Albert; Zairian ecclesiastic; b. 12 Dec. 1917, Kinshasa (then Léopoldville); ed. Petit Séminaire, Bolongo, Grand Séminaire, Kabwe; Vicar in Parish of Christ-Roi; Auxiliary Bishop of Léopoldville 1959-64; Archbishop of Kinshasa 1964-; cr. Cardinal 1969; Chevalier, Ordre du Léopard. *Address:* B.P. 8431, Kinshasa 1, Zaire. *Telephone:* 69221.

MAMERT, Jean Albert; French public servant; b. 26 March 1928; ed. Lycée et Faculté de Droit, Montpellier, Institut d'Études Politiques, Paris, Ecole Nationale d'Administration, Paris; Auditor 1955-, later Master of Requests, Council of State; Tech. Counsellor of Govt. for Constitutional Problems, 1958-59, Sec.-Gen. Constitutional Consultative Cttee. 1958; Chief of Prime Minister's Office Jan.-July 1959; Sec.-Gen. Econ. and Social Council 1959-72; Dir.-Gen. Cino del Duca 1978-; EEC Econ. and Social Cttee. 1970-. *Address:* Place des Carme-Déchaux, 63000 Clermont-Ferrand (Office); 21 avenue de Versailles, 75016 Paris, France (Home). *Telephone:* 225-35-85 (Office).

MAMIAKA, Gen. Raphaël; Gabonese politician; b. 12 Nov. 1936, Lambaréné; ed. Inst. d'Enseignement Secondaire, Paris, Ecole d'Officiers de Gendarmerie Nat., Melun, France, Univ. of Paris; Sub-Lieut. of Gendarmerie 1964, Lieut. 1966, Capt. 1968, Commdt. 1970; served French Army in Cen. Congo, Oubangui-Chari, Far East and Algeria; fmr. Commdr. Gendarmerie of Ndeu-N'Tem, Moanda and N'Gounie; Sec. of State for the Interior in charge of the Penitentiary Service Feb.-Dec. 1969; Sec. of State at the Presidency in charge of the Interior 1969-70; Minister of the Interior 1970-73, of Public Health and Population 1973-75, of Public Works and Buildings 1975-76, of Justice 1976-78, of Public Health, Population, Social Affairs, Veterans, War Victims and Women's Promotion 1978-; Commdr., Légion d'honneur and other nat. and foreign decorations. *Address:* Ministry of Public Health, Libreville, Gabon.

MAMO, Sir Anthony Joseph, K.ST.J., O.B.E., Q.C., LL.D.; Maltese judge and former Head of State; b. 9 Jan. 1909, Birkirkara; s. of late Joseph and Carola (née Brincat) Mamo; m. Margaret Agius 1939; one s. two d.; ed. Archbishop's Seminary, Malta and Royal Univ. of Malta; mem., Statute Law Revision Comm. 1936-42; Crown Counsel 1942-51; Prof. of Criminal Law, Royal Univ. of Malta 1943-57; Deputy Attorney-Gen. 1952-54; Attorney-Gen. 1955; Chief Justice and Pres. of H.M. Court of Appeal 1957; Pres. H.M. Constitutional Court 1964; Pres. H.M. Court of Criminal Appeal 1967; Gov.-Gen. of Malta 1971-74; Pres. of the Repub. 1974-76. *Publications:* lectures on criminal law and criminal procedure delivered at the Royal Univ. of Malta. *Leisure interest:* reading. *Address:* 49 Stella Maris Street, Sliema, Malta. *Telephone:* 30708.

MAMOUDOU MAIDAH; Niger politician; b. 1924; Tessoua, Maradi district; ed. Frédéric Assumption School, Katibougou, Mali; Deputy for Tessoua 1959; fmr. teacher; Minister of Agric. 1959-61; Minister of Educ. 1961-63; Minister of Rural Economy 1963-70; Minister of Foreign Affairs 1970-72; Minister-Del. to the Pres. 1972-74; decorations. *Address:* Niamey, Niger.

MAMOULIAN, Rouben; American stage and film producer, director, and author; b. 8 Oct. 1897, Russia; ed. Paris Lycée Montaigne, Tiflis Gymnasium, and Moscow Univ.; Produced Beating on the Door in London 1922; was taken to New York by George Eastman to direct American Opera Co.; Stage Dir. New York 1927; Dir. in Hollywood 1931-; Film festival Tribute to Rouben Mamoulian, New York 1967; Festival of films at Nat. Film Theatre, London 1968; Retrospectives and personal appearances for Tribute to Rouben Mamoulian at American Film Inst., Beverly Hills, Calif., Nat. Gallery of Art, Washington, Metropolitan Museum of Art New York, American Film Inst. Seminar for U.S.A. Educators, Sir George Williams Univ., Montreal, Canada 1970; San Francisco Int. Film Festival, Science Center, Toronto, Canada, Museum of Science, Buffalo, N.Y., Univ. of Calif., Univ. of South Florida, Yale Univ. 1971; Musical Mamoulian retrospective at the Acad. of Motion Picture Arts and Sciences, Hollywood 1972; Festival of all Mamoulian films, San Sebastian, Spain, and Cinémathèque, Paris 1973; Pres. Int. Jury, San Sebastian Film Festival 1973; took part in Symposium The Coming of Sound to the American Film: 1925-1940, Rochester, N.Y. 1973; appeared at American Film Inst.'s History of American Musicals 1974; Delta Kappa Alpha Salutes Rouben Mamoulian, retrospective of all his films, Univ. of Southern Calif. 1975; appearances radio and television; Award of Excellence, Armenian American Bicentennial Commemoration in Philadelphia 1976, Hall of Fame Award, Count Dracula Soc. 1977. *Stage Productions include:* Porgy 1927, Marco Millions 1928, Wings Over Europe 1928, R.U.R. 1929, Month in the Country 1930, Hand of Fate, Farewell to Arms 1930, Porgy and Bess 1935, Oklahoma! 1943, Sadie Thompson 1944, Carousel 1945, St. Louis Woman 1946, Lost in the Stars (musical tragedy) 1949, Arms and the Girl (musical play) 1950, Oklahoma! for the Berlin Art Festival 1951, Hollywood 1953, in Paris and in various Italian cities 1955; *Motion Pictures include:* Applause 1929, City Streets 1931, Dr. Jekyll and Mr. Hyde 1931, Love Me Tonight 1932, Song of Songs 1932, Queen Christina 1933, We Live Again 1934, Becky Sharp 1935, The Gay Desperado 1936, High, Wide and Handsome 1937, Golden Boy 1939, Mark of Zorro 1940, Blood and Sand 1941, Rings her Fingers 1942, Summer Holiday (based Eugene O'Neill's Ah! Wilderness) 1947, Carousel 1953, Oklahoma 1955, Silk Stockings 1957, co-author (with Maxwell Anderson) The Devil's Hornpipe (musical, filmed Never Steal Anything Small) 1959. *Publications:* Abigayll 1964, Shakespeare's Hamlet, A New Version 1966. *Address:* 1112 Schuyler Road, Beverly Hills, Calif. 90210, U.S.A.

MAN, Ivan Aleksandrovich; Soviet sailor and polar explorer; b. 23 Sept. 1903, Mogilev Region, Byelorussia; ed. Leningrad Naval Polytechnic; Nat. Navigation Safety Inspector; Commdr. of cargo steamers Pravda, Transbalt in the Arctic Ocean, and of the liners Ukraina, Rossia in the Black Sea; Capt. of diesel-electric ship Ob, flagship of the Soviet Antarctic Expedition 1955; sailed to Mirny in the Antarctic 1955, 1956, 1957; Capt. of liner Gruzia 1961-62, Peter Veliki 1962-64, research ship Professor Vize, Antarctic 1968; Chief Specialist in Navigation, Ministry of Merchant Marine 1964-; Orders of Lenin, Patriotic War (1st Class), Red Banner of Labour (twice), Badge of Honour and other decorations. *Address:* Ministry of Merchant Marine, Moscow, U.S.S.R.

MAN, Morgan Charles Garnet, C.M.G., D.L.; British former diplomatist and business executive; b. 6 Aug. 1915; ed. Cheltenham Coll., and The Queen's Coll., Oxford; joined Consular service 1937; Deputy Political Resident, Bahrain 1959-62; Minister, Ankara 1962-64; Amb. to Saudi Arabia 1964-68; Sr. Civilian Instructor, Imperial Defence Coll. 1968-69; Dir. Metallurgical Plantmakers Fed. 1970-, British Metalworking Plantmakers Assn. 1970-, Ironmaking and Steelmaking Plant Contractors Assn. 1970-. *Address:* 1 Bolton's Court, 216 Old Brompton Road, London, S.W.5, England. *Telephone:* 01-373 9396.

MANAC'H, Etienne Manoël; French diplomatist (retd.); b. 3 Feb. 1910, Plouigneau; m. Mme. Denise Lorenzet 1967; three c.; ed. Faculté des Lettres, Paris; Free France Del. to Turkey 1941-42, Head of Mission to Balkans 1942-43, Consul-Gen. in Istanbul 1944; First Sec., French Embassy, Prague 1945, Consul-Gen., Bratislava

1945-51; Counsellor and Deputy Dir., Ministry of Foreign Affairs 1951, Head of E. European Services 1953; Tech. Counsellor to Minister of Foreign Affairs 1957-58; Dir. of Cabinet to Minister of State, Guy Mollet 1958-59; Minister plenipotentiary 1960; Dir. for Asia and South Sea Islands of Cen. Admin. 1960-69; Amb. to People's Repub. of China 1969-75; Amb. de France 1974. *Address:* Manoir de Lezaven, 29123 Pont-Aven, France. *Telephone:* 06-03-55.

MANCE, Sir Henry Stenhouse, Kt., M.A.; British insurance executive; b. 5 Feb. 1913, St. Albans, Herts.; s. of late Brig. Sir Henry O. Mance, K.B.E., C.B., C.M.G., and of Elizabeth H. Mance; m. Joan E. Robertson Baker; one s. three d.; ed. Charterhouse and St. John's Coll., Cambridge; entered Lloyds 1935, Underwriting mem. 1939, mem. Cttee. 1966, Deputy Chair. 1967-68, Chair. 1969-72; Chair. Lloyd's Life Assurance Ltd. 1971-, Deputy Chair. and Treas. Lloyds Register of Shipping 1979-; Dir. Willis Faber Ltd. 1973-78, Craigmyle and Co. 1973-; Pres. Insurance Inst. of London 1975-76, Chartered Insurance Inst. 1977-78; Lloyd's Gold Medal 1973. *Leisure interests:* gardening, carpentry. *Address:* Lloyds, Lime Street, London, EC3M 7HA (Office); Gatefield Cottage, Okehurst, Billingshurst, Sussex, England (Home). *Telephone:* 040-381 2155.

MANCHAM, Sir James Richard Marie, Kt., F.R.S.A.; Seychelles lawyer and politician; b. 11 Aug. 1939, Victoria, Mahé; s. of Richard Mancham and Evelyne Henderson; m. Heather Jean Evans 1963; one s. one d.; ed. Univ. of Paris and Middle Temple, London; Called to the Bar, Middle Temple 1961; mem. Legis. Council of the Seychelles 1961; mem. Govt. Council 1967; founder and leader, Social Dem. Party 1964-; mem. Legis. Ass. 1970-76, of Nat. Ass. 1976-77; Chief Minister 1970-75, Prime Minister 1975-76; Pres. of the Republic of Seychelles 1976-77 (deposed by coup). *Publication:* Reflections and Echoes from the Seychelles.

MANCHESTER, William, B.A., A.M., L.H.D.; American writer; b. 1 April 1922, Attleboro, Mass.; s. of William Raymond Manchester and Sallie Thompson Manchester; m. Julia Brown Marshall 1948; one s. two d.; ed. Univ. of Massachusetts, Dartmouth Coll., and Univ. of Missouri; Reporter Daily Oklahoman 1945-46; Reporter, Foreign Corresp., War Corresp. Baltimore Sun 1947-55; Man. Editor, Wesleyan Univ. publs. 1955-63; Fellow, Wesleyan Univ. 1959-60, Writer-in-Residence 1975-; Pres. Bd. of Trustees, Univ. of Mass. Library 1970-72; Purple Heart 1945; Guggenheim Fellow 1959; Fellow, East Coll., Wesleyan Univ. 1969-79; Dag Hammarskjöld Int. Prize in Literature 1967, Overseas Press Club Award 1968, Univ. of Missouri Award 1969. *Publications:* Disturber of the Peace 1951, The City of Anger 1953, Shadow of the Monsoon 1956, Beard the Lion 1958, A Rockefeller Family Portrait 1959, The Long Gainer 1961, Portrait of ■ President 1962, The Death of ■ President 1967, The Arms of Krupp 1968, The Glory and the Dream 1974, Controversy and Other Essays in Journalism 1976, American Caesar 1978. *Leisure interest:* photography. *Address:* c/o Harold Matson Co., 22 East 40th Street, New York, N.Y. 10016, U.S.A. *Telephone:* 212-679-4490.

MANCINI, Giacomo; Italian politician; b. 21 April 1916; ed. Univ. of Turin; mem. Partito Socialista Italiano (PSI) 1943-; Dir. Socialist Fed. of Cosenza 1946-48; mem. Chamber of Deputies 1948-; mem. Directorate PSI 1953-, Dir. of Party Org. 1959, later Asst. Sec.; Minister of Public Health 1963-64, of Public Works 1964-70; Sec. Unitarian Socialist Party 1970-72; Minister for Southern Devt. March-Oct. 1974. *Address:* Partito Socialista Italiano, 00186 Rome, Via del Corso 476, Italy.

MANCROFT, 2nd Baron, of Mancroft, Norwich; **Stormont Mancroft Samuel Mancroft,** K.B.E., T.D.; British business executive; b. 27 July 1914; ed. Winchester and Christ Church, Oxford; Called to Bar, Inner Temple 1938; Royal Artillery 1939-46; mem. Bar Council 1947-51; mem. St. Marylebone Borough Council 1947-53; ■ Lord-in-Waiting to the Queen 1952-54; Parl. Under Sec. Home Office 1954-57; Parl. Sec. Ministry of Defence 1957; Minister without Portfolio 1957-58; Dir. Great Universal Stores and subsidiaries 1958-66; Deputy Chair. Cunard Line Ltd. 1966-71; Pres. Inst. of Marketing 1959-63, St. Marylebone Conservative Assen. 1961-66, London Tourist Bd. 1963-73; Chair. Cttee. for Exports to U.S.A. 1967-70; Chair. Totalisator Bd. 1971-76; mem. Council on Tribunals 1970-79; Hon. Col. Commandant, Royal Artillery. *Publications:* Booking the Cooks 1969, A Chinaman in my Bath 1974. 29 Margaretta Terrace, London SW3 5NU, England. *Telephone:* 01-352 7674.

MANDEL, Marvin; American former state governor; b. 19 April 1920, Baltimore, Md.; s. of late Harry Mandel and of Rebecca Cohen; m. 1st Barbara Oberfeld 1941 (divorced 1974), one s. one d.; m. 2nd Jeanne Blackistone Dorsey 1974; ed. Baltimore City Coll. and Univ. of Maryland; Army Service 1942-44; subsequently partner in law firm Mandel, Gilbert, Rocklin and Franklin until 1969; mem. Maryland House of Delegates 1952-69, Speaker 1963-69; Gov. of Maryland 1969-77; mem. Baltimore, Maryland and American Bar Assens.; Hon. LL.D. (Univ. of Md. and Towson State Coll.); Herbert Lehman Ethics Award 1969, 1970 and other honours; found guilty of political corruption Aug. 1977; sentenced to four years' imprisonment Oct 1977; conviction overturned by Appeals Court Jan. 1979, Democrat. *Leisure interests:* pipe-collecting, hunting, sport. *Address:* c/o State Capitol, Annapolis, Md., U.S.A.

MANDELA, Nelson Rolihlahia; South African lawyer and politician; b. 1918, Transkei; m. Winnie Mandela; ed. Univ. Coll. of Fort Hare, Univ. of the Witwatersrand; son of Chief of Tembu tribe; legal practice, Johannesburg 1952; Nat. organizer African Nat. Congress (A.N.C.); on trial for treason 1956-61 (acquitted 1961); arrested 1962, sentenced to five years imprisonment Nov. 1962; on trial for further charges Nov. 1963-June 1964, sentenced to life imprisonment June 1964. *Publications:* No Easy Walk to Freedom 1965. *Address:* Robben Island, nr. Cape Town, South Africa.

MANDELE, Karel E. van der, DR.ECON.; Netherlands diplomatist (retd.); b. 13 Sept. 1907, Rotterdam; s. of K. P. van der Mandele and Hermine S. M. Van Bosse; m. Wilhelmine Plate 1934; three s. one d.; ed. Nederlandsche Economische Hoogeschool, Rotterdam and Lausanne, Harvard and Leiden Univs.; Banking 1931-38; Vice-Consul, Sydney, New South Wales 1939-43; Sec. Pretoria 1943-44, Washington 1944-46; First Sec. Copenhagen 1946; UN Division, Ministry of Foreign Affairs 1947-50; Consul-Gen., Hong Kong 1950-55; Minister to Ceylon 1955-58; Inspector of Foreign Service 1958-63; Ambassador to Denmark 1963-69; mem. of Staff, Netherlands Defence Coll. 1969-73; Knight Order of Netherlands Lion, Officer Order of Orange-Nassau, Commdr. Military Order of Christ, Grand Cross, Order of Dannebrog. *Leisure interests:* outdoor life, history, politics. *Address:* "De Helling", Zwaluwenweg 3a, Aerdenhout, Netherlands. *Telephone:* 023-242512.

MANDLOI, Bhagwantrao Annabhau, B.A., LL.B.; Indian politician; b. 15 Dec. 1892, Khandwa, Madhya Pradesh; s. of Shri Annabhan Mandloi and Shrimati Nathu Bai; m. Shrimati Durga Devi; six s. two d.; ed. Govt. Coll., Jabalpur, and Univ. School of Allahabad; Lawyer, Khandwa; Pres. Municipal Cttee., Khandwa (15 years); mem. Legislative Assembly of Cen. Provinces and Berar 1935-37, of Madhya Pradesh 1937-; imprisoned for political activities 1940, 1942; mem. Constituent Assembly and Parl.; Chief Whip, Madhya Pradesh Assembly Party; mem. Congress Parl. Board 1951-52; Minister for Revenue, Survey and Settlement, Land Records, Land Reforms and Local Self Govt., Madhya Pradesh, later for Revenue and Educ. 1952-56; Minister for Revenue and Local Govt. 1956-61, for Revenue and Industries 1961-62; Chief Minister, Madhya Pradesh 1962-63; Pres. Madhya Pradesh Congress Cttee. Nov. 1963-; Padma-Bhushan award 1970. *Leisure interests:* reading and writing on politics, agriculture, industry and religious subjects. *Address:* Ramkrishna Mandloi Road, Khandwa, Madhya Pradesh, India.

MANEKSHAW, Field-Marshal Sam Hormuzji Framji Jamshedji, M.C.; Indian army officer; b. 3 April 1914, Amritsar; s. of Dr. H. F. J. Manekshaw and Mrs. H. F. J. Manekshaw; m. Silloo Manekshaw 1939; two d.; ed. Sherwood Coll., Nainital, Indian Military Acad., Dehra Dun; commissioned 1934, awarded Military Cross; graduated Staff Coll., Quetta 1943; served ■■ Brigade Maj. Razmak Brigade, Waziristan 1943-44; Instructor Staff Coll., Quetta 1944; active service in Burma and French Indo-China 1945-46; Gen. Staff Officer Grade I, Military Operations Directorate, Army H.Q. 1946-47, Brigadier 1947; Dir. Military Operations 1948-52; Commdr. 167 Infantry Brigade 1952-54; Col. 8th Gurkha Rifles 1953-; Dir. Military Training 1954-55; Commdr. Infantry School, Mhow 1955; attended Imperial Defence Coll., London 1957; promoted Maj.-Gen. and appointed G.O.C. 1926 Infantry Div. in Jammu and Kashmir 1957; Commandant Defence Services Staff Coll., Wellington 1959-62; G.O.C. IV Corps. 1962-63; G.O.C.-in-C. Western Command 1963-64; G.O.C.-in-C. Eastern Command 1964-69; awarded Padma Bhushan 1968, Padma Vibhushan 1972; Chief of the Army Staff 1969-73; promoted Field-Marshal Jan. 1973; masterminded Pakistan's defeat in Indo-Pakistan War 1971; Col. 8th Gurkha Rifles. *Leisure interests:* fishing, reading, music. *Address:* c/o Army Headquarters, DHQ PO New Delhi 110011, India.

MĂNESCU, Corneliu; Romanian politician and diplomatist; b. 8 Feb. 1916, Ploiești, Romania; ed. Law Coll., Bucharest; Mem. Democratic Students Front; mem. Romanian Workers Party (now CP) 1936-; Deputy Minister of Armed Forces 1948-55; Dep. Chair. State Planning Cttee. 1955-60; Chief of Political Dept. Ministry of Foreign Affairs 1960; Amb. to Hungary 1960-61; Minister of Foreign

Affairs 1961-72; mem. Central Cttee. of the Romanian CP 1965-; Deputy to Grand Nat. Assembly 1965-; Head of Romanian Del. to UN Gen. Assembly 1961-72; Pres. 22nd Session of UN Gen. Assembly 1967-68; Pres. of Romanian Interparl. Group 1973-77; Vice-Pres. of Nat. Council of Socialist Unity Front 1973-77; Chair., Grand Nat. Assembly Comm. for Foreign Policy and Int. Co-operation 1973-77; Amb. to France 1977-; Romanian and foreign decorations. *Address:* Embassy of Romania, [illegible] de l'Exposition, Paris 7e, France.

MĂNESCU, Manea; Romanian economist and politician; b. 9 Aug. 1916, Brăila; m. Maria Mănescu; Gen. Dir. Cen. Statistical Office 1951-55; Minister for Finance 1955-57; Chair. Labour and Wages State Cttee. and First Vice-Chair. of State Planning Cttee. 1957-68; mem. Union of Communist Youth 1932, Romanian Communist Party (RCP) 1936-; mem. Cen. Cttee. RCP 1960-, Sec. 1965-72; Alt. [illegible] Exec. Political Cttee. 1966-68, mem. 1968-; mem. Perm. Praesidium 1971-74; mem. Standing Bureau Political Exec. Cttee. 1974-; mem. Grand Nat. Assembly 1961-, Chair. Econ. and Financial Standing Comm. 1961-69; Chair. Econ. Council 1968-72; Chair. State Planning Cttee. 1972-74; Vice-Pres. State Council 1969-72; Vice-Chair. Council of Ministers 1972-74, Chair. (Prime Minister) 1974-79; Vice-Pres. Supreme Council for Econ. and Social Devt. 1973-, Exec. Bureau of Socialist Unity Front 1974-; Corresp. [illegible] Romanian Acad. 1955-74, mem. 1974-; mem. Acad. of Social and Political Sciences 1970, Latin World Acad.; Hero of Socialist Labour 1971, Order of Victory of Socialism 1974. *Address:* c/o Consiliul de Miniştri, Bucharest, Romania.

MANESSIER, Alfred; French artist; b. 5 Dec. 1911; ed. Lycée d'Amiens and Paris Schools of Fine Art; has designed and executed stained glass for churches at Bresseux (Jura), Arles, Basel, etc.; rep. at numerous exhibitions, including the Brussels Int. Exhibition 1958, Dunn Int. Exhbn., London 1963; Caracas Int. Painting Prize, Carnegie Prize 1955, Venice Biennale Prize 1962; Chevalier Légion d'honneur, Officier des Arts et des Lettres. *Address:* Rue de Haut-Martin, Emance, 78120 Rambouillet, France.

MANGELSDORF, Paul C., M.S., SC.D.; American scientist; b. 20 July 1899, Atchison, Kan.; s. of August and Mary Brune Mangelsdorf; m. Helen Parker 1923; two s.; ed. Kansas State Coll. and Harvard Univ.; Asst. Geneticist, Conn. Agricultural Experimental Station 1921-26; Agronomist, Texas Agricultural Experimental Station 1927-40, Asst. Dir. 1936-40, Vice-Dir. 1940; Asst. Dir. Botanical Museum, Harvard Univ. 1940-45, Dir. 1945-67, Prof. of Econ. Botany 1940-67, Fisher Prof. of Natural History 1962-68, Emeritus Prof. 1968-; Consultant in Agriculture, Rockefeller Foundation 1941-54 and periodically since; Lecturer in Botany, Univ. of N.C. 1968-; mem. American Philosophical Soc., Nat. Acad. of Sciences; Hon. D.Sc. (Park Coll.) 1960, (Saint Benedict's Coll.) 1965, Hon. LL.D. (Kansas State). *Publications:* Genetics and Morphology of some Endosperm Characters in Maize 1926, Origin of Indian Corn and its Relatives (with R. G. Reeves) 1939, Races of Maize in Mexico (with E. J. Wellhausen et al.) 1951, Races of Maize in Columbia (with L. M. Roberts et al.) 1957, Races of Maize in Central America (with E. J. Wellhausen et al.) 1957, Races of Maize in Peru (with Alexander Grobman et al.) 1961, Campaigns against Hunger (with E. C. Stakman and R. Bradfield) 1967, Corn, Its Origins, Evolution and Improvement 1974 and over 100 articles. *Address:* Room 315, Department of Botany, University of North Carolina, Chapel Hill, N.C. 27514 (Office); 510 Caswell Road, Chapel Hill, N.C., U.S.A. (Home).

MANGWAZU, Timon Sam, M.A.; Malawi diplomatist; b. 12 Oct. 1933, Kasungu; s. of Sam Isaac Mangwazu [illegible]d Malita Nyankhata; m. Nelly Kathewera 1958; three s. three d.; ed. Inyati Boys' Inst. (London Missionary Society) Bulawayo, Tegwani Methodist Secondary School, Plumtree, Ruskin Coll., and Brasenose Coll. Oxford; Nyasaland Civil Service 1956; Sec.-Gen. Nyasaland African Civil Servants Association 1961; Asst. Registrar of Trade Unions 1963; First Sec. British Embassy in Vienna 1964; Amb. of Malawi to German Fed. Repub., later accred. to Norway, Sweden, Denmark, Netherlands, Belgium, Switzerland, Austria 1964-67; Malawi High Commr. in U.K. 1967-69, concurrently Amb. to Holy See, Portugal, Netherlands and Belgium; reading Econs. and Politics at Brasenose Coll., Oxford 1969-72; Amb. to EEC, Belgium and the Netherlands 1973-78; Malawi Independence Medal, Malawi Repub. Medal, Knight Commdr. Cross of Order of Merit of Fed. Repub. of Germany. *Leisure interest:* angling. *Address:* c/o Ministry of Foreign Affairs, Lilongwe, Malawi.

MANICKAVASAGAR, Balasegaram, M.B., F.R.C.S., F.R.C.S.E., F.R.A.C.S., F.A.C.S., F.I.C.S., F.P.C.S.; Malaysian professor of surgery; b. 15 April 1929, Selangor; s. of Manickavasagar and Navamani; m. Jeyaletchimy Pillai 1958; one s. five d.; ed. King Edward VII Medical Coll., Singapore and Univ. of Malaya; Medical Officer and later Registrar, Surgical Unit, Gen. Hosp., Kuala Lumpur 1957-59, Consultant Surgeon Surgical Unit II 1969-, Prof. [illegible]d Consultant Surgeon 1972-; Consultant Surgeon, Kota Bharu, Kelantan 1960-61; Consultant Surgeon and Head Dept. of Surgery, Gen. Hosp., Seremban 1961-69; Senior Consultant Surgeon to Ministry of Health, Malaysia; Kehormat Prof. of Surgery, Nat. Univ. of Malaysia (Sept. 1979-); Examiner, Royal Coll. of Surgeons, Edinburgh, Royal Australasian Coll. of Surgeons, Univ. of Malaya; Nat. Del. Société Internationale de Chirurgie; Malaysia Rep. for Asian-Pacific Assn. for Study of Liver Diseases; Nat. Del., Int. Acad. of Proctology; Editor-in-Chief Malaysian Journal of Surgery; Editorial Cttee. mem. British Journal of Surgery, Journal of Clinical Oncology, Journal of Modern Medicine, Journal of Medical Progress, Journal of the International College of Surgeons, South-East Asian Journal of Surgery; mem. Malaysian Soc. of Parasitology and Tropical Medicine; Fellow and Editorial [illegible] Clinical Pharmacology and Biopharmacy, Int. Transplantations Soc.; Fellow, American Assn. of Surgery for Advancement of Trauma, Assn. of Surgeons of Great Britain and Ireland, British Surgical Oncology; Hon. Fellow Polish Assn. of Surgeons, Philippine Coll. of Surgeons; Hunterian Professorship, Royal Coll. of Surgeons 1969; Chiene Professorship Lecture 1971; Guest Lecturer Japan Assn. of Acute Medicine, Assn. Surgeons of India 1975, Indonesian Surgical Soc. 1978; Visiting Prof. and guest lecturer at [illegible] univs. in Europe, Africa, Asia and North and South America; Jacksonian Prize, Royal Coll. of Surgeons 1970; Abraham Colles Lecturer, Royal Coll. of Surgeons of Ireland 1974; many Malaysian awards. *Publications:* papers, monographs and chapters on hepatic, pancreatic, biliary, gastric and oesophageal and bone and joint surgery. *Address:* Department of Surgery, General Hospital, Kuala Lumpur (Office); 5 Jalan Liew Weng Chee, Off Jalan Yap Kwan Seng, Kuala Lumpur 04-06, Malaysia. (Home). *Telephone:* 290421 Extension 686 (Office); 84053 (Home).

MANIUSIS, Juozas Antonovich, D.SC.; Soviet constructional engineer and politician; b. 1910; fmr. constructional engineer; Army service 1941-44; Party official 1945-50; Minister of Construction 1950-55; Sec. Cen. Cttee., CP of Lithuanian S.S.R. 1956-67; Chair. Council of Ministers of Lithuanian S.S.R. 1967-; Deputy to U.S.S.R. Supreme Soviet 1962-; Alt. [illegible] Cen. Cttee. CPSU and mem. Cen. Cttee. of Lithuanian S.S.R.; [illegible] Cttee. U.S.S.R. Parl. Group. *Address:* c/o Council of Ministers of Lithuanian S.S.R., Vilnius, U.S.S.R.

MANKIEWICZ, Joseph Leo, B.A.; American film writer, director and producer; b. 11 Feb. 1909, Wilkes-Barre, Pa.; s. of Frank and Johanna Blumenau Mankiewicz; m. 1st Rosa Stradner 1939 (died 1958), 2nd Rosemary Matthews 1962; three s. one d.; ed. Columbia Univ.; Asst. Corresp. in Berlin for Chicago Tribune; writer, Paramount Pictures 1929-33; writer and producer, M.G.M. 1933-43; writer, director and producer, Twentieth Century-Fox 1943-51; Pres. Screen Directors' Guild 1950; directed La Bohème at Metropolitan Opera House 1952; Formed [illegible] company, Figaro Inc., 1953, dissolved, 1961; Acad. of Motion Picture Arts and Sciences Award (Oscar) best screen-play and director 1949 and 1950; British Film Acad. Award and New York Film Critics' Award (for All About Eve) 1951; Commdr. of the Order of Merit from Italian Republic for contribution to the Arts. *Films include:* Script: Skippy, Million Dollar Legs 1932, If I Had [illegible] Million, Manhattan Melodrama, Forsaking All Others 1934; Produced: Fury 1936, Huckleberry Finn 1939, The Philadelphia Story 1940, Woman of the Year 1942, The Keys of the Kingdom; Script and Dir.: Dragonwyck 1946, The Late George Apley 1947, The Ghost and Mrs. Muir 1947, A Letter to Three Wives 1948 (Acad. Award for script 1949), No Way Out 1950, All About Eve (Acad. Award for script and direction) 1950, People Will Talk 1951, Julius Caesar 1953, The Barefoot Contessa 1954, Guys and Dolls 1955, The Quiet American (also prod.) 1957, Cleopatra 1963, The Honey Pot 1967, There Was [illegible] Crooked Man 1970; Dir.: House of Strangers 1950, Five Fingers 1952, Suddenly Last Summer 1959, Sleuth 1972. *Address:* Long Ridge Road, Bedford, N.Y. 10506, U.S.A.

MANKOWITZ, Wolf, M.A.; British writer and theatrical producer; b. 7 Nov. 1924, Bethnal Green, London; [illegible] of Solomon Mankowitz and Rebecca Brick; m. Ann Margaret Seligmann 1944; four s.; ed. East Ham Grammar School, and Downing Coll., Cambridge; extensive work in journalism, radio, television and films, and [illegible] a theatrical producer; is also [illegible] expert in English Ceramics; Hon. Consul to The Repub. of Panama in Dublin 1971-. *Films:* Make [illegible] [illegible] Offer 1954, A Kid for Two Farthings 1954, The Bespoke Overcoat 1955 (Venice Film Festival Award, British Film Acad. Award, Hollywood Oscar), Expresso Bongo 1960, The Millionairess 1960, The Long and the Short and the Tall 1961, The Day the Earth

Caught Fire 1961 (British Film Acad. Award), Waltz of the Toreadors 1962, Where the Spies [illegible] 1965, Casino Royale 1967, The Assassination Bureau 1969, Bloomfield (screenplay and production) 1970, Black Beauty 1971, Treasure Island 1972, The Hebrew Lesson (wrote and directed, Critics' Prize, Cork Int. Film Festival) 1972, The Hireling (Grand Prix, Cannes) 1973. *Plays:* The Boychik 1954, The Bespoke Overcoat 1955, The Mighty Hunter, Expresso Bongo (musical) 1958, Make Me an Offer (musical) 1959, Belle (musical) 1961, Pickwick (musical) 1963, Passion Flower Hotel (musical) 1965, The Samson Riddle 1972, The Hebrew Lesson 1978. Television includes Conflict series, East End, West End series, The Killing Stones play-cycle 1958, A Cure for Tin Ear 1965, The Battersea Miracle 1966, Dickens of London series 1976. *Publications:* Novels: Make Me [illegible] Offer 1952, A Kid for Two Farthings 1953, Laugh till you Cry 1955, My Old Man's [illegible] Dustman 1956, Cockatrice 1963, The Biggest Pig in Barbados 1965, Penguin Wolf Mankowitz 1967, Raspberry Reich 1978; Short stories: The Mendelman Fire 1957, The Blue Arabian Nights 1972, The Day of the Women and the Night of the Men 1975; Plays: The Bespoke Overcoat and Other Plays 1955, Expresso Bongo 1961, The Samson Riddle 1972; Histories: The Portland Vase 1953, Wedgwood 1953, An Encyclopedia of English Pottery and Porcelain 1957, Dickens of London (TV script also) 1976; Biography: The Extraordinary Mr. Poe 1978; also The Wolf Mankowitz Reader (collection) 1961. *Leisure interests:* alternative living styles. *Address:* Bridge House, Ahakista, Co. Cork, Ireland. *Telephone:* Kilcrohane 11.

MANLEY, Michael Norman, M.P.; Jamaican politician, journalist and trade unionist; b. 10 Dec. 1923, Kingston; s. of the late Norman W. Manley, Q.C. (Prime Minister of Jamaica, 1955-62), and Edna Swithenbank Manley; m. Beverley Anderson 1972; one s. three d.; ed. Jamaica Coll. and London School of Economics; with B.B.C. 1950-51; Assoc. Editor, Public Opinion 1952-53; Sugar Supervisor, Nat. Workers' Union 1953-54, Island Supervisor and First Vice-Pres. 1955-; positions in numerous other unions and Labour cttees.; [illegible] of Senate 1962-67; mem. House of Reps. for Central Kingston 1967-; Leader of People's Nat. Party Feb. 1969-; Prime Minister March 1972-, also Minister of External Affairs 1972-75, of Economic Affairs 1972-75, of Defence 1972-, of Youth and Community Devt. 1974-75, of Nat. Mobilization and Human Resources Devt. Sept. 1977-, of Information, Broadcasting and Culture 1978-; Jamaican Rep. on Exec. Council Caribbean Congress of Labour. *Publications:* Politics of Change 1974, A Voice at the Workplace 1975, Search for Solutions 1976. *Leisure interests:* reading, music, gardening, boxing, tennis, cricket. *Address:* Office of the Prime Minister, P.O. Box 272, Kingston 6, Jamaica.

MANN, Fritz Karl, DR. JURIS., PH.D.; German-American economist; b. 10 Dec. 1883, Berlin; s. of Louis Mann and Johanna Behrens; m. Ingeborg Papendieck 1907 (died 1967); two s. two d.; ed. Freiburg, Munich, Berlin, Paris and London Univs; Econ. Expert to Mil. Admin. of Romania 1917; mem. German Supreme Command; Chair. Inter-Allied Danube Comm. 1917-18; Lecturer in Political Economy Kiel Univ. 1914, Breslau Univ. 1919; Prof. Kiel Univ. 1920; Prof. Königsberg Univ. and Dir. Inst. for East German Economics 1922; Prof. Cologne Univ. 1926; Dir. Inst. for Int. Finance 1927, Inst. for Fiscal Research 1933; Prof. American Univ. Graduate School, Washington, D.C. 1936, Brookings Inst. 1940-41; Expert of War Dept.; Asst. Dir. and Acting Dir. of Research, Army Indus. Coll. 1943-44; Fellow of Library of Congress 1943-44; Dir. Institute on Federal Taxes 1945-55; Chair. Dept. of Economics, American Univ. 1948-54; Prof. Emeritus 1956; Drs. rer. pol. h.c. *Publications:* Marschall Vauban und die Volkswirtschaftslehre des Absolutismus 1914, Überwälzung der Steuer 1928; Deutsche Finanzwirtschaft 1929, Die Staatswirtschaft unserer Zeit 1930, Gründer der Soziologie 1932, Steuerpolitische Ideale 1937, The Sociology of Taxation 1943, The Government Corporation [illegible] Tool of Foreign Policy 1943, The Socialization of Risks 1945, The Dual Debt System as [illegible] Method of Financing Government Corporations 1947, The Threefold Economic Functions of Taxation 1947, The Fiscal Component of Revolution 1947, Re-orientation Through Fiscal Theory 1949, Geschichte der angelsächsischen Finanzwissenschaft 1955, Wirtschaftsgleichgewicht and Wirtschaftswachstum in den Vereinigten Staaten von Amerika 1957, Die Bekämpfung der Inflationen: Amerikanische Methoden und Erfahrungen 1957, Bemerkungen über Schumpeters Einfluss auf die amerikanische Wirtschaftstheorie 1958, The Romantic Reaction 1958, Die Finanzwirtschaft als Modell und als System 1958, Finanztheorie und Finanzsoziologie 1959, Institutionalism and American Economic Theory: A Case of Interpenetration 1960, Ideologie und Theorie des Haushaltsgleichgewichts 1961, Von den Wandlungen und Widersprüchen der Steuerideologie 1961, Finanzsoziologie 1961, Vecchie [illegible] Nuove Teorie Del Pareggio Del Bilancio 1962, Physiokratie 1962, Die konjunktur- und finanzpolitische Lage der Vereinigten Staaten von Amerika, I Problemi dell'Economia Americana 1963, Economics of Fiscal Decisions in [illegible] Pluralistic Society 1964, Festgabe für F. K. Mann 1963, Finanzwissenschaftliche Forschung und Lehre [illegible] der Universität [illegible] Köln 1927-1935 1967, Die Gesetze der Wirtschaftsmacht und die Macht der Wirtschaftsgesetzen 1968, Die intermediären Finanzgewalten und der pluralistische Staat 1969, Die Finanzwirtschaft als Privatwirtschaft, Historische Glossen 1969, Die Neutralisierung des Finanzsystems 1970, J. A. Schumpeter, Das Wesen des Geldes (editor) 1970, Perspectivas Sociológicas de la decisión político-financiera 1971, Zu Schumpeters Leben und Werk 1971, Die drei Finanzwissenschaften 1971, Die "Als-Obs" in der Finanzwirtschaftslehre 1972, Der interpersonelle und der strukturelle Ausgleich der Steuerlast 1972, Begriff und Illusion der sozialen Marktwirtschaft 1973, Abriss einer Geschichte der Finanzwissenschaft 1975, Distribution and Redistribution in the Public Sector of the Economy 1976, Adam Smith: The Heir and the Ancestor 1976, Der Sinn der Finanzwirtschaft 1978. *Leisure interests:* riding and music. *Address:* 3713 Williams Lane, Washington, D.C. 20015, U.S.A. *Telephone:* 652-3593.

MANN, Golo, DR.PHIL.; Swiss historian of German origin; b. 27 March 1909, Munich, Germany; s. of Thomas Mann; ed. Schloss Salem, Univs. of Munich, Berlin and Heidelberg; Reader in German Literature and History, École Normale Supérieure, St. Cloud 1933-35, Rennes Univ. 1935-36; Editor Mass und Wert, Zürich 1937-40; Prof. of Modern History Olivet Coll. (Mich.) 1942-43; U.S. Army 1943-46; Prof. of History Claremont Men's Coll. (Calif.) 1947-57; Visiting Prof. Münster Univ. 1958 and 1959; Prof. of History, Stuttgart Technische Hochschule 1960-64; mem. American Acad. of Arts and Sciences 1977, Deutsche Akademie für Sprache und Dichtung, Darmstadt, Bayerische Akademie der Schönen Künste, München, Vereinigung deutscher Wissenschaften; Berlin Fontane Prize 1962, Mannheim Schillerpreis 1964, Büchner Prize 1968, Gottfried Keller-Preis 1969, Schiller-Gedächtnispreis, Stuttgart 1977; Orden Pour le Mérite. *Publications:* Friedrich von Gentz: Geschichte eines europäischen Staatsmannes 1947, Vom Geist Amerikas 1954, Aussenpolitik (with H. Pross, vol. in Fischer-Lexikon) 1958, Deutsche Geschichte des 19. und 20. Jahrhunderts 1958, Politische Entwicklung Europas und der Vereinigten Staaten 1815-1871 (in Propyläen Weltgeschichte) 1960, Geschichte und Geschichten 1961, Wallenstein (biography) 1971, Gentz 1973, Zwölf Versuche (essays), Wallenstein, Bilder zu seinem Leben 1973; publisher of Propyläen Weltgeschichte 1960-64 and of Neue Rundschau 1962-. *Leisure interests:* hiking, dogs. *Address:* Alte Landstrasse 39, Kilchberg [illegible] Zürichsee, Switzerland. *Telephone:* Zürich 715-46-66.

MANN, Thaddeus Robert Rudolph, C.B.E., M.D., SC.D., PH.D., F.R.S.; British physiologist and biochemist; b. 4 Dec. 1908, Lwów, Poland; s. of William Mann and Emilia Quest; m. Cecilia Lutwak, M.D., PH.D., 1934; ed. Univs. of Lwów and Cambridge; commenced biochemical research 1933, first in field of muscle biochemistry (working with J. K. Parnas); carried out studies on various enzymes, e.g. peroxidase, polyphenoloxidase, carbonic anhydrase (with D. Keilin) 1935-39; studied biochemistry of mould fungi 1939-44; studied biochemistry of [illegible] and of male reproductive tract 1944-; Fellow of Royal Soc. 1951; Dir. Agricultural Research Council Unit of Reproductive Physiology and Biochemistry, Cambridge 1954-76; Fellow of Trinity Hall, Cambridge 1961-; Prof. of Physiology of Reproduction, Univ. of Cambridge 1967-76; Visiting Prof., Univ. of Adelaide 1976; Visiting Scientist, Nat. Inst. of Health, U.S.A. 1977-79; Corresp. [illegible] Belgian Royal Acad. of Medicine 1971; Dr. h.c. (Cracow, Hanover and Ghent); Knight of Italian Order of Merit; Amory Prize, American Acad. of Arts and Sciences; Marshall Medal, Soc. for the Study of Fertility. *Publications:* Biochemistry of Semen 1954, Biochemistry of Semen and of the Male Reproductive Tract 1964; about 200 publs. in fields of biochemistry of muscle, blood, plants, fungi, spermatozoa and reproductive organs. *Address:* 1 Courtney Way, Cambridge, CB4 2EE, England. *Telephone:* Cambridge 55891.

MANN, Thomas Clifton, B.A., LL.B.; American lawyer and diplomatist; b. 11 Nov. 1912; ed. Baylor Univ.; Mem. law firm Mann and Mann, Texas 1934-42; Foreign Service, Uruguay, Washington, Athens, Guatemala 1942-55; Amb. to El Salvador 1955-57; Asst. Sec. of State for Econ. Affairs 1957-60, for Inter-American Affairs 1961; Amb. to Mexico 1961-63; Asst. Sec. of State for Latin American Affairs 1964-65; Under Sec. of State for Econ. Affairs 1965-66; Pres. Automobile Manufacturers' Assn. 1967-71; Consultant May 1971–; Hon. LL.D. (Notre-Dame). *Address:* 8105 Middle Court, Austin, Tex. 78759, U.S.A.

MANNIN, Ethel; British author; b. 11 Oct. 1900, London; d. of Robert Mannin and Edith Gray; m. 1st J. A. Porteous 1919, one d.; m. 2nd Reginald Reynolds 1938; Assoc. Editor The Pelican 1918-

20. *Publications include:* (Novels) Sounding Brass 1925, Ragged Banners 1931, Linda Shawn 1932, Venetian Blinds 1933, Men Unwise 1934, Cactus 1935, The Pure Flame (sequel to Cactus) 1936, Women also Dream 1937, Rose and Sylvie 1938, Darkness my Bride 1939, Julie 1940, Rolling in the Dew 1940, Red Rose 1941, Captain Moonlight 1942, The Blossoming Bough 1943, Proud Heaven 1944, Lucifer and the Child 1945, The Dark Forest 1946, Comrade O Comrade 1947, Late Have Loved Thee 1948, Every Man a Stranger 1949, Bavarian Story 1950, At Sundown the Tiger 1951, The Fields at Evening 1952, Lover Under Another Name 1953, The Living Lotus 1956, Pity the Innocent 1957, Fragrance of Hyacinths 1958, The Blue-Eyed Boy 1959, Sabishisa 1961, Curfew at Dawn 1962, The Road to Beersheba 1963, The Burning Bush 1965, The Night and its Homing 1966, The Lady and the Mystic 1967, Bitter Babylon 1968, The Midnight Street 1969, Free Pass to Nowhere 1970, The Curious Adventure of Major Fosdick 1972, Mission to Beirut 1973, Kildoon 1974, The Late Miss Guthrie 1976; (Travel and Memoirs) Confessions and Impressions 1930, South to Samarkand 1936, Privileged Spectator (sequel to Confessions) 1939, Connemara Journal 1948, German Journey 1948, Jungle Journey (India) 1950, This was Man (memories of Robert Mannin) 1952, Moroccan Mosaic 1953, Land of the Crested Lion (Burma) 1955, The Country of the Sea (Brittany) 1957, Brief Voices (autobiography) 1959, The Flowery Sword (Japan), 1960, A Lance for the Arabs 1963, Aspects of Egypt 1964, The Lovely Land (Jordan) 1965, An American Journey 1967, England for Change 1968, England at Large 1970, Young the Twenties—a Chapter of Autobiography 1971, My Cat Sammy 1971, England my Adventure 1972, Stories from my Life 1973, An Italian Journey 1974, Sunset over Dartmoor: A Final Chapter of Autobiography 1977; (Essays and Miscellaneous) Common Sense and the Child 1931, Common Sense and the Adolescent 1938, Common Sense and Morality 1942, Women and the Revolution 1938, Christianity—or Chaos 1940, Bread and Roses (A Survey of Utopias) 1944, Two Studies in Integrity: Francis Mahony ("Father Prout") and Gerald Griffin 1954, Rebels' Ride: the Revolt of the Individual 1964, Loneliness: a Study of the Human Condition 1966, Practitioners of Love: some Aspects of the Human Phenomenon 1969; (Short Stories) Green Figs 1931, No More Mimosa 1943, The Wild Swans (tales based on the ancient Irish) 1952, So Tiberias (a novella) 1954. *Leisure interests:* gardening, walking, reading. *Address:* Overhill, Brook Lane, Shaldon, Teignmouth, Devon, England.

MANNING, Rt. Hon. Ernest Charles, P.C., C.C.; Canadian politician; b. 20 Sept. 1908, Carnduff, Saskatchewan; s. of George Henry Manning and Elizabeth Mara Dickson; m. Muriel Aileen Preston 1936; two s.; ed. Rosetown, Saskatchewan; mem. Legis. Assembly (Social Credit), Alberta 1935-68; Prov. Sec. and Minister of Trades and Industry, Alberta Govt. 1935-43, Prov. Treas. 1944-55, Minister of Mines and Minerals 1952-62, Attorney-Gen. 1955-68, Premier 1943-68; Chair. M & M Systems Research Ltd.; Dir. Canadian Imperial Bank of Commerce, The Steel Co. of Canada Ltd., Canadian Pacific Airlines, The Manufacturers Life Insurance Co., Melton Real Estate Ltd., Burns Foods Ltd., McIntyre Mines Ltd., OPI Ltd., Sterling-Coal Valley Mining Co. Ltd. *Address:* P.O. Box 2317, Edmonton, Alberta, Canada.

MANNING, Robert Joseph; American journalist; b. 25 Dec. 1919, Binghamton, N.Y.; s. of Joseph James Manning and Agnes Pauline Brown; m. Margaret Marinda Raymond 1944; three s.; U.S. Army service 1942-43; Nieman Fellow, Harvard Univ. 1945-46; State Dept. and White House Corresp. United Press. 1944-46, Chief UN Corresp. United Press. 1946-49; Writer, Time magazine 1949-55, Senior Editor 1955-58, Chief, London Bureau, Time, Life, Fortune, Sports Illustrated magazines 1958-61; Sunday Editor, New York Herald Tribune 1961-62; Asst. Sec. of State for Public Affairs, Dept. of State 1962-64; Exec. Editor Atlantic Monthly 1964-66, Editor-in-Chief 1966-. *Address:* Office: Arlington Street, Boston, Mass. 02116, U.S.A. *Telephone:* 617-536-9500.

MANNING, H.E. Cardinal Timothy; American (Irish born) ecclesiastic; b. 15 Nov. 1909, Balingeary, Cork, Ireland; ordained 1934; consecrated titular Bishop of Lesvi 1946, transferred to Fresno 1967; consecrated titular Archbishop of Capri 1969; Archbishop of Los Angeles 1970-; created Cardinal by Pope Paul VI 1973. *Address:* Archbishop's House, 1531 West 9th Street, Los Angeles, Calif. 90015, U.S.A.

MANSAGER, Felix Norman; American business executive; b. 30 Jan. 1911, Dell Rapids, S. Dak.; s. of Hoff and Alice Qualseth Mansager; m. Geraldine Larson 1931; one s. two d.; ed. Colton High School; Gen. Sales Manager, The Hoover Company 1959, Vice-Pres. (Sales) 1959-61, Exec. Vice-Pres. and Dir. The Hoover Company 1961-63, Hoover Group 1963-66, Pres. and Chair. 1966-75, Chair. Exec. Cttee. 1975-; Dir. Harter Bank & Trust Co., Canton, O.; Trustee at Large and Chair. Independent Coll. Funds of America, Rotary Int. Pilgrims of the U.S.; Trustee Graduate Theological Union (Calif.), Eisenhower Exchange Fellowships; Fellow Brit. Inst. of Management; Steering Cttee. Strathclyde Univ. (Scotland); mem. and Gov. Ditchley Foundation; mem. Assn. of Ohio Commodores, Council Foreign Relations, The Newcomen Soc. in N. America, Ohio Foundation of Ind. Colls., Nat. Business Council for Consumer Affairs; Hon. World League of Norsemen; Hon. LL.D. (Capital Univ., Columbus, Ohio and Strathclyde Univ., Scotland), Hon. L.H.D. (Malone Coll.); Medal of Honour, Vaasa Univ.; Chevalier of the Order of Léopold (Belgium), Grand Dukes of Burgundy, Knight 1st Class, Order of St. Olav (Norway) 1971; British Inst. of Marketing Award 1971; Canton Chamber of Commerce Award of Appreciation 1971; Chevalier, Légion d'honneur; Hon. C.B.E. 1973. *Leisure interests:* reading, golf. *Address:* The Hoover Co., North Canton, Ohio 44720, U.S.A. *Telephone:* (216) 499-9200.

MANSFIELD, Sir Alan James, K.C.M.G., K.C.V.O., K.ST.J., LL.B.; Australian judge; b. 30 Sept. 1902, Indooroopilly, Queensland; s. of Edward Mansfield; m. Beryl Susan Barnes 1933; one s. one d.; ed. Univ. of Sydney; admitted to Bar of N.S.W. 1924, Queensland 1924; Lecturer in Bankruptcy and Company Laws Univ. of Queensland 1939; practised barrister-at-law Queensland 1925-40; Judge of Supreme Court of Queensland 1940-; mem. Australian War Crimes Board of Enquiry 1945; Australian rep. UN War Crimes Comm., London 1945; Chief Australian Prosecutor Int. Mil. Tribunal for the Far East Jan. 1946-Jan. 1947; Chair. of Land Appeal Court, Queensland 1942-45; Chair. Aliens Tribunal 1942-45; Chair. Royal Comms. on Queensland Sugar Industry 1942, 1950; Senior Puisne Judge of Queensland 1947-55; Acting Chief Justice of Queensland 1950, Chief Justice 1956-66; Administrator of Govt. of Queensland 1957-58; Chair. Central Sugar Cane Prices Board 1955; Warden, Queensland Univ. 1956-66, Chancellor, Queensland Univ. 1966-76; Gov. of Queensland 1966-72. *Leisure interests:* fishing, yachting. *Address:* 81 Monaco Street, Florida Gardens, Surfers Paradise, Queensland 4217, Australia.

MANSFIELD, J(ohn) Kenneth; American government official; b. 1921; ed. Northwestern Univ. and Yale Univ. Instructor in Int. Relations, Yale Univ. 1949-50; Chief of Staff, Mil. Applications Sub. Cttee., Joint Congressional Cttee. on Atomic Energy 1950-56; combustion engine firm 1956-59; Staff Dir. U.S. Senate Sub Cttee. on Nat. Policy Machinery 1959-62; Insp. Gen. Foreign Assistance, Dept. of State 1962-69, Deputy Dir. Operations, Office of Gen. Scientific Affairs 1969-. *Address:* Office of General Scientific Affairs, Department of State, Washington D.C. 20520, U.S.A. (Office).

MANSFIELD, Michael Joseph, A.M.; American politician; b. 16 March 1903, New York; s. of Patrick and Josephine O'Brien Mansfield; m. Maureen Hayes 1932; d.; ed. Univ. of Montana; fmr. mining engineer; Prof. of History and Political Science, Univ. of Montana 1933-42; House of Reps. 1943-52, Senator (Democrat, Montana) 1952-76; Majority Whip 1957-61; Leader of Senate 1961-76; Amb. to Japan 1977-. *Address:* U.S. Embassy, Chancery, 10-5 Akasaka 1-chome, Minato-ku, Tokyo, Japan.

MANSHARD, Walther, DR. RER. NAT.; German university professor and UN official; b. 17 Nov. 1923, Hamburg; s. of Otto and Ida Manshard; m. Helga Koch 1951; one d.; ed. Univ. of Hamburg; Asst. Lecturer, Univ. of Southampton, U.K. 1950-52; Lecturer, Univ. of Ghana 1952-60; Dozent, Univ. of Cologne 1960-63; Prof. Univ. of Giessen 1963-70; Principal Dir. UNESCO Dept. of Environmental Sciences 1970-73; Prof., Head of Dept. Univ. of Freiburg 1973-; Vice-Rector, United Nations Univ., Tokyo (-80). *Publications:* Die geographischen Grundlagen der Wirtschaft Ghanas 1961, Tropisch Afrika 1963, Agrargeographie der Tropen 1968, Afrika—Südlich der Sahara 1970, Tropical Agriculture 1974, Die Städte des tropischen Atvika 1977. *Address:* United Nations University, 29th Floor, Toho Seimei Building, 15-1, Shibuya 2-chome, Tokyo 150, Japan.

MANSHOLT, Sicco Leendert; Netherlands politician; b. 13 Sept. 1908, Ulrun, Groningen, Netherlands; m. H. Postel 1937; four c.; ed. School for Tropical Agriculture, Deventer; studied agriculture; worked on Dutch farms 1924-34, tea plantations in Indonesia 1934-36; returned to Netherlands and worked on Wieringermeer Polder from 1937; during the German occupation organized important illegal work, particularly for the food supply of western provinces and worked behalf of concentration camp victims; commanded section of the forces of the Interior after the capitulation; became Burgomaster of Wieringermeer; Minister of Agriculture, Fisheries and Food in Schermerhorn Cabinet June 1945-46; in Beel Cabinet 1946-48, in Drees Cabinet 1948, 1951, 1952 and 1956-58; Head of the Netherlands Del. to UN for agriculture, and took part in negotiations for creation of Benelux Union 1946;

prepared Mansholt Plan for Agricultural Section of European Econ. Community 1953; Vice-Pres. EEC Comm. 1958-67; Vice-Pres. Combined Exec. of EEC, ECSC and Euratom 1967-72, Pres. March 1972-Jan. 1973; mem. UN Eminent Persons Group to Study Multinationals 1973; Dr. h.c. in Agriculture (Inst. of Agriculture, Wageningen, Gembloux); Grand Croix de l'Ordre de la Couronne de Belgique, Grand Cross, Order of the Netherlands Lion and numerous other foreign awards; Robert Schuman Prize 1968. *Address:* Oosteinde 18, 8351 HB Wapserveen, Netherlands.

MANUEL, Robert; French actor and producer; b. 7 Sept. 1916; ed. Lycée Carnot and National Conservatoire of Dramatic Art, Paris; Hon. Sec. Comédie-Française 1967-; Prof., Nat. Conservatoire of Dramatic Art and Conservatoire de la rue Blanche; Lecturer and Dir. Théatre Marigny; film actor and dir. of many TV programmes; Mayor of Roquebrune-sur-Argens 1971-74; Officier, Légion d'honneur. *Plays produced include:* Les trois valses, Les cloches de Corneville, Mamzelle Nitouche, Les Précieuses ridicules, On ne saurait penser à tout, Mariage forcé, Bidule, Les Croulants ne portent bien, La grève des amoureux, Gigi, Une femme qui ne cache rien, La maison de Zaza, la Purée, J'y suis, j'y reste, Le marchand de soleil. *Address:* Le Buisson, 78370 Plaisir, France.

MANUELLI, Ernesto, M.C.S.; Italian financial executive; b. 22 Feb. 1906; ed. Rome Univ.; Banker 1923-32; Gen. Sec. Sofindit (Industrial Financial Co.) 1932-35; Gen. Inspector, Office of Foreign Trade and Currencies, Rome 1935-40; Central Dir., Vice-Pres., Commr., Pres. Bd. of Dirs. Ansaldo S.p.A. Genoa 1940-45; Gen. Man., Dir., mem. Exec. Cttee., Finsider S.p.A. Rome 1945-58, Chair. Board of Dirs. 1958-75; Chair. EGAM 1975-77; Vice-Pres. Société Financière Italo-Suisse; Dir. Alfa Romeo and other companies; Cavaliere del Lavoro. *Publications:* Economic research papers. *Address:* 495 Via Della Camilluccia, Rome; 122 Viale Castro Pretorio, Rome, Italy.

MANZHULO, Aleksey Nikolayevich; Soviet foreign trade official; b. 15 Sept. 1913; ed. Inst. of Motor Roads, Acad. of Foreign Trade; Mem. CPSU 1940-; Chief of Section, later Deputy Trade Rep. of U.S.S.R. in England 1946-51; Official, Ministry of Foreign Trade 1951-52; Counsellor, COMECON 1952-53; U.S.S.R. Commercial Rep. in Argentina 1953-57; Deputy Chief of Dept., Ministry of Foreign Trade, Cuba 1960-62; Chief of Dept., Ministry of Foreign Trade 1962-71; Vice-Minister, Ministry of Foreign Trade 1971-; Order of Lenin and Order of Red Banner of Labour. *Address:* U.S.S.R. Ministry of Foreign Trade, 32-34 Smolenskaya-Sennaya Ploshchad, Moscow, U.S.S.R.

MANZINI, Raimondo, G.C.V.O.; Italian diplomatist; b. 1913, Bologna; s. of Giuseppe Manzini and Amalia Raschi; ed. Univ. of California and Univ. degli Studi, Bologna; Diplomatic Service 1940-, served San Francisco, Lisbon, Foreign Ministry, Rome, and London 1940-47; Consul-Gen., Léopoldville 1947-51, Stuttgart 1951-53; Foreign Ministry, Rome 1953-64; Italian Rep. to Org. for Econ. Co-operation and Devt. (OECD) 1965-68; Amb. to U.K. 1968-75; Sec.-Gen., Ministry of Foreign Affairs 1975-. *Leisure interest:* sailing. *Address:* Ministry of Foreign Affairs, Rome, Italy.

MANZÙ, Giacomo; Italian sculptor; b. 22 Dec. 1908; began his career working in a gilder's then a plasterer's studio; attended evening classes in plastic arts; Prof. of Sculpture Accad. Brera, Milan 1940-54, Salzburg Int. Sommerakademie 1954-60; Exhibition of Paintings and Drawings, Hanover Gallery, London 1965; Exhibition of Sculpture at Hanover Gallery, London 1969; Exhibition at Bordeaux 1969; museum devoted to his work opening in Ardea, May 1969; Sculpture Prize, Venice Biennale 1948; major works include main door of Salzburg Cathedral, Porta delle Morte, San Pietro in Vaticano, Rome and Porta della Pace e della Guerra, St. Laurenz Church, Rotterdam; corresp. mem. Acad. des Beaux Arts (France) 1969-; Hon. doctorate (Royal Coll. of Art) London 1971; Lenin Peace Prize 1966. *Publications:* La Porta di San Pietro 1964, Un artista e il Papa 1968. *Address:* 00040 Ardea, Rome, Italy.

MAO CHIH-YUNG; Chinese party official; Sec. CCP, Hunan, Chair. Hunan Revolutionary Cttee., and First Political Commissar, Hunan Mil. District, PLA 1977-; Mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

MARA, the Rt. Hon. Ratu Sir Kamisese Kapaiwai Tuimacilai, P.C., K.B.E., M.A.; Fiji politician; b. 13 May 1920; s. of Ratu Ratu Tui Nayau and Adi Lusiana Qolikoro; m. Adi Lala Mara; three s. five d.; ed. Queen Victoria School and Central Medical School, Suva, Fiji, Sacred Heart Coll., Otago Univ., Oxford Univ., and London School of Economics; joined British Colonial Service 1950; Admin. Officer, District Officer and Commr., Fiji 1951-61; mem. Legis, Council, Fiji 1953-; mem. Exec. Council, Fiji 1959-61; mem. for Natural Resources 1964-66; founded Alliance Party 1960; Leader, Fiji Del. Constitutional Conf., London 1965; Chief Minister 1967-70; Prime Minister 1970-; Hon. Fellow Wadham Coll. 1971; Hon. LL.D. (Guam, Otago, New Delhi); Hon. Dr. Political Science (Yonsei Univ., Korea) 1978; Grandmaster of the Order of the National Lion, Senegal 1975, Order of Diplomatic Service Merit, Korea 1978. *Leisure interests:* fishing, golf. *Address:* Office of the Prime Minister, Suva, Fiji. *Telephone:* 211201.

MARAI, Sándor; Hungarian-born American poet and novelist; b. 11 April 1900. *Publications:* Emlékkönyv, Versek, Panaszkönyv, A mészáros, Zendülök, Idegen emberek, Csutora, Egy Polgár vallomàsai, Bébi, vagy az elsö szerelem, A szegények iskolàja, Bolhapiac, Istenek nyomában, A fèltékenyek, Válás Budán, Kabala, Napnyugati örjárat A négy évszak, A sziget, Müsoron kivül, Sèrbödöttek; also many novels, plays, etc., published in Czech, German, Finnish, Danish, French, Italian, Dutch, Spanish and Swedish. *Address:* 100 Park Terrace West, New York 34, N.Y., U.S.A.

MARAINI, Dacia; Italian author; b. 13 Nov. 1936; d. of Fosco Maraini (*q.v.*); ed. Collegio S.S. Annunziata, Florence and Rome; Prix Formentor for L'Età del Malessere (The Age of Discontent) 1962. *Publications:* La Vacanza 1962, L'Età del Malessere 1962, Crudeltà All' Aria Aperta (poems) 1966, A Memoria (novel) 1967, La famiglia normale (one-act play) 1967, Il ricatto a teatro (play) 1968, Memoirs of a Female Thief 1973. *Address:* Lungotevere Della Vittoria 1, Rome, Italy. *Telephone:* 378936.

MARAINI, Fosco, D.S.C. (father of Dacia Maraini, *q.v.*); Italian writer; b. 15 Nov. 1912; s. of Antonio Maraini and Yoi Crosse; m. Topazia Alliata 1935 (divorced); three d.; ed. Univ. of Florence; Asst. Prof., Univ. of Hokkaido, Japan 1938-41; Reader in Italian, Univ. of Kyoto 1941-43; civil internee (as anti-Fascist) in Japan 1943-45; returned to Italy 1946; Fellow, St. Antony's Coll., Oxford; lecturer in Japanese, Univ. of Florence; writing and research on anthropology and ethnology of Asia. *Publications:* Secret Tibet 1953, Meeting with Japan 1959, Karakoram 1961, Hekura 1962, Where Four Worlds Meet 1964, Japan: Patterns of Continuity 1971. *Leisure interests:* music, skiing, mountaineering. *Address:* Viale Magalotti 6, Florence, Italy.

MARAIS, Jean; French actor; b. 11 Dec. 1913; ed. Lycées Condorcet and Janson-de-Sailly, and Conservatoire Maubel; appeared in L'Epervier, Le Scandale, L'Aventurier, Le Bonheur, Dans les rues, Les hommes nouveaux; also appeared in plays, including Oedipe Roi, Les chevaliers de la table ronde, Les parents terribles, Britannicus, La machine à ecrire, L'Avare, Andromaque, Pygmalion, Two For the Seesaw, etc.; served French Army 1939-40 and 1944-45; later made more films, including L'Eternal, Retour, Aux yeux du souvenir, Le secret de Mayerling, Orphée, Le château de verre, Julietta, Elena et les hommes, Typhon sur Nagazaky, La vie à deux, Amour de poche, Les nuits blanches, Chaque jour a son secret, Versailles Le Bossu, Austerlitz, Le Testament d'Orphée, Le capitan, La Princesse de Clèves, Les mystères de Paris, Patate, Fantomas, Le Saint prend l'affût, La Provocation, Peau d'Ane; television appearances in Renaud et Armide 1969, Robert Macaire 1970, Joseph Balsam 1973, Karatekas and Co. 1973; Pres. Union des Artistes 1974-. *Address:* 20 rue Berlioz, 75116 Paris, France.

MARAMIS, Johan Boudewijn Paul, DRS.; Indonesian diplomatist; b. 23 Jan. 1922, Limbung, Celebes; m. Niny Rosalie Krumpis; three s. three d.; ed. Univ. of Leyden, Netherlands; served in Directorate of Econ. Affairs, Ministry of Foreign Affairs 1951-54; First Sec., Teheran 1954-58; Deputy Head, Directorate of UN Affairs, Ministry of Foreign Affairs 1958-60; Counsellor, Indonesian Mission to UN 1960-65; Head, Directorate of Int. Orgs., Ministry of Foreign Affairs 1965-69; mem. Del. to UN Gen. Assembly 1966-68; Deputy Perm. Rep. to UN 1969-72, Rep. UN ECOSOC 1968, Vice-Pres. 1969, Pres. 1970; Amb. to Belgium and Luxembourg and Chief Indonesian Mission to EEC 1972-73; Exec. Sec. UN ESCAP 1973-. *Address:* ESCAP, United Nations Building, Rajdamnern Avenue, Bangkok 2, Thailand.

MARCEAU, Félicien (pseudonym of Louis Carette); French writer; b. 16 Sept. 1913, Cortenberg, Belgium; s. of Louis Carette and Marie Lefèvre; m. Bianca Licenziati; ed. Coll. de la Sainte Trinité à Louvain and Univ. de Louvain; Prix Interallié for Les Elans du Coeur 1955; Prix Goncourt for Creezy 1969; Prix Prince Pierre de Monaco 1974; Grand Prix du Théâtre 1975; mem. Académie Française 1975. *Publications:* Novels: Chasseneuil (By Invitation only) 1948, Bergère Légère (The China Shepherdess) 1957, Creezy 1969, Le corps de mon ennemi 1975; plays: L'Oeuf 1956, La bonne soupe 1958, La preuve par quatre 1965, Un jour j'ai rencontré la vérité 1967, Le Babour 1969, L'Ouvre-boîte 1972, L'Homme en Question 1973; essays: Balzac et son monde 1955, Le roman et la liberté 1978; memoirs: Les années courtes 1968. *Leisure interest:* painting. *Address:* c/o Les Editions Gallimard, 5 rue Sébastien-Bottin, Paris 7e, France. *Telephone:* 544-39-19.

MARCEAU, Marcel; French mime; b. 22 March 1923; ed. Strasbourg Lycée, and Ecole des Beaux-Arts, Paris; Dir. Compagnie de Mime Marcel Marceau 1949-; annual world tours, and numerous television appearances throughout the world; created Don Juan (mime drama) 1964, Candide (ballet), Hamburg 1971; creator of the character "Bip"; Head of Ecole de Mimodrame Marcel Marceau Aug. 1978-; mimes include Le manteau, Exercices de style (both filmed), Mort avant l'aube, Le joueur de flüte, Moriana et Galvau, Pierrot de Montmartre, Les trois perruques, etc.; other films: Pantomime, Un jardin public, Le fabricant de masques, Paris qui rit, Paris qui pleure, Barbarella. *Address:* Théâtre des Champs-Elysées, 15 avenue Montaigne, 75008 Paris, France.

MARCELLIN, Raymond, D. en D.; French politician and lawyer; b. 19 Aug. 1914; ed. Meaux Coll., Paris and Strasbourg Univs.; Under-Sec. of State of the Interior 1948-49; Sec. of State of Industry 1949-52, of the Pres. of the Council 1952, of Information 1952-57, of Public Functions 1957-62; Minister of Public Health and of the Population 1962-66, of Industry 1966-67; Minister under Prime Minister, Responsible for Plan 1967-68; Minister of Interior 1968-74, of Agricultural Devt. March-May 1974; Deputy 1946-56, 1967, 1968, 1973; Pres. Conseil Général du Morbihan 1964; Mayor of Vannes 1965- (reelected 1971); Senator for Morbihan 1974-; Croix de guerre, Médaille des Evadés, etc. *Publications:* L'ordre public et les groupes révolutionnaires 1969. *Address:* Le Sénat, 15 rue de Vaugirard, 75291 Paris, France.

MARCHAIS, Georges; French politician; b. 7 June 1920, La Hoquette; m. 1st Paulette Noetinger 1941; three c.; m. 2nd Liliane Garcia Marchais; one s.; fmr. metal worker; active in trade union movt.; joined French CP 1947, mem. Cen. Cttee. 1956, mem. Political Bureau 1959, Sec. Cen. Cttee. 1961, Sec.-Gen. Dec. 1972-; Deputy to Nat. Assembly 1973-; mem. European Parl. 1979-. *Publications:* Qu'est-ce que le parti communiste français? 1970, Les communistes et les paysans (co-author) 1972, Le défi démocratique 1973, La politique du parti communiste français 1974. *Address:* Parti Communiste Français, 2 Place du Colonel Fabien, Paris 19e, France. *Telephone:* 202-70-10.

MARCHAND, André Marius; French painter; b. 10 Feb. 1907; s. of Henri Marchand and Madeleine Cécile Michel de l'Hospital; ed. Colls. of Aix-en-Provence, Bouches du Rhône, and studied in Paris; has exhibited in Paris since 1934; in Holland 1936, Cambridge 1939, Washington, Boston and Chicago 1939, Rio de Janeiro 1945, Brussels 1945, 1968, Canada 1946, New York 1946, Berne 1948, Geneva 1948, 1967, Stuttgart 1948, London, Stockholm, Avignon 1949, Innsbruck 1950; Bienal in São Paulo 1951; exhibitions in museums in Holland and Belgium 1951, in London (Wildenstein Galleries) 1952, in Switzerland and Germany 1953; in New York (Wildenstein Gallery) 1954, Venice Biennale 1954, in Mexico and Guatemala 1967, in Baden Baden 1974; work on permanent exhibition in Musée d'Art Moderne, Galerie Maeght, Galerie Louis Carré (Paris), and in Grenoble, Arles, Algiers, Toulouse, The Hague, Liège, Eindhoven, Turin, Tokyo; founder mem. and exhibitor in Salon de Mai (since 1945); illustrated (lithographs) Les nourritures terrestres (André Gide), Le visionnaire (Julien Green), etc. and designed for the works of Darius Milhaud and Jacques Audiberti; Paul Guillaume Prize 1937, Arche Prize for design 1952; lithographs for Petite cosmogonie portative (Raymond Queneau) 1955. *Address:* 31 bis rue Campagne Première, 75014 Paris, France. *Telephone:* 033-10-97.

MARCHAND, Jean, P.C.; Canadian politician; b. 20 Dec. 1918; ed. Acad. Commerciale, Quebec and Faculty of Sciences, Laval Univ.; organizer Confed. of Catholic Workers 1945, Gen. Sec. 1947-61; Pres. Confed. of Nat. Trade Unions 1961-65; mem. Royal Comm. of Enquiry on Bilingualism and Biculturalism 1963-65; mem. House of Commons, Fed. Parl. 1965-76 (resigned); Minister of Citizenship and Immigration 1965-66, of Manpower and Immigration 1966-68, also Sec. of State April-July 1968, of Forestry and Rural Devt. 1968-69, of Regional Econ. Expansion 1969-72, of Transport 1972-75, Minister without Portfolio 1975-76, Minister of the Environment Jan.-June 1976 (resigned); Hon. doctorates (Montreal and Laval); Liberal. *Address:* 135 Aberdeen Street, Quebec, P.Q., Canada.

MARCHANDISE-FRANQUET, Jacques; French lawyer and company executive; b. 6 July 1918, Paris; s. of Paul Marchandise and Mme Franquet; m. Jacqueline Feuillette 1940; three s. two d.; ed. Ecole Libre des Sciences Politiques; Avocat stagiaire 1939; sous-préfet, Dir. of office of Commissaire of the Repub. of Laon 1944; auditeur, Council of State 1946; head of office of Minister for War Veterans 1948; legal adviser, Caisse Centrale de la France d'Outre-Mer 1948; chargé de mission for Minister of France Overseas 1952, head of office 1953-54; Maître des Requêtes, Council of State 1954, Maître des Requêtes Honoraire 1962; legal adviser, office of Pres. of Council of Ministers 1954-55; Asst. Dir. to Dir.-Gen., Bureau of Mines of France Overseas 1955; Sec.-Gen. Fria (int. aluminium production corpn.) 1956-60, Vice-Pres. 1967, Pres. 1969, Vice-Pres. Friguia (part nationalised successor to Fria) 1976-; Dir. Pechiney 1960, Asst. Dir.-Gen. 1970, Dir. délégué to Pechiney Ugine Kuhlmann 1971-75; Vice-Pres. and Dir.-Gen., Librairie Hachette 1975, Pres. and Dir.-Gen. 1976-; Officier, Légion d'honneur, Officier, Ordre national du Mérite, Croix de guerre 1939-45. *Address:*24 boulevard Saint-Michel, 75006 Paris (Office); 25 ter boulevard de La Saussaye, 92200 Neuilly, France (Home). *Telephone:* 325-22-11 (Office).

MARCHESI, Mario; Italian business executive; b. 6 June 1904, Turin; ed. Politecnico di Torino; began career with Fiat, then joined Pirelli and subsequently moved to OMB; joined Finsider Group 1935; directed construction of Cornigliano Works and subsequently became Gen. Man.; later became Gen. Man., then Deputy Chair. Finsider and Pres. ITALSIDER; now Pres. Innocenti S. Eustacchio; also Dir. and Exec. Cttee. Società Finanziaria Siderurgica Finsider, Società Italiana Impianti and Experimental Metallurgical Centre (C.S.M.); Dir. Società Dalmine and of Assider; Cavaliere del Lavoro.
Address: Finsider s.p.a., Viale Castro Pretorio 122, Rome, Italy.

MARCHUK, Guri Ivanovich; Soviet physicist; b. 8 June 1925, Petro-Khersonets village, Orenburg Region; ed. Leningrad State Univ.; Postgraduate student, Leningrad State Univ. 1949-53; Senior Research Assoc., Head of Dept., Inst. of Physics and Energetics, Obninsk 1953-60; Inst. of Maths. of Siberian Branch of U.S.S.R. Acad. of Sciences 1962-64; Dir. Computing Centre of Siberian Branch of U.S.S.R. Acad. of Sciences 1964-; Deputy Chair. of Presidium of Siberian Branch of U.S.S.R. Acad. of Sciences 1969-; Lenin Prize 1961; Order of Lenin (twice) and other decorations; D.Sc. (Physics and Mathematics) 1956, Prof. 1958; Corresp. mem. U.S.S.R. Acad. of Sciences 1962-68, Academician 1968-. *Publications:* works on problems of physics of atmosphere. *Address:* c/o Akademgorodok, Novosibirsk, U.S.S.R.

MARCHUK, Ivan Ivanovich; Soviet diplomatist; b. 14 Nov. 1922, Kozychanka, Kiev region, Ukraine; ed. Univ. of Kiev; Diplomatic Service 1947-; Counsellor, Conakry 1959-62; Deputy Head of Press Dept., U.S.S.R. Ministry of Foreign Affairs 1962-64; Amb. to Burundi 1964-67; on staff of Ministry of Foreign Affairs 1967-70; Amb. to Ecuador 1970-75; on staff of Ministry of Foreign Affairs 1975-77; Amb. to Chad 1977-. *Address:* c/o Soviet Embassy, P.O. Box 891, N'Djaména, Chad. *Telephone:* 35-09.

MARCKS, Gerhard Wilhelm Albert; German sculptor; b. 18 Feb. 1889, Berlin; m. Maria Schmidtlein 1914; two s. three d.; ed. Gymnasium in Berlin; Teacher of sculpture Berlin 1918; master at Weimar Bauhaus 1919-25; teacher, then head of studies at Halle Giebichenstein 1925-33; private work 1933-45; teacher at Hamburg Art School 1946-50; works include memorials in Hamburg, Cologne, Mannheim, Bochum, Hanover, Lübeck and Bourdon, France; works on view in New York Museum of Modern Art and other American museums; Orden Pour le Mérite (Fed. Repub. of Germany), Grosses Bundesverdienstkreuz mit Stern. *Address:* Belvedere 149A, Köln-Müngersdorf, Federal Republic of Germany. *Telephone:* Cologne 491488.

MARCOS, Ferdinand Edralin; Philippine lawyer and politician; b. 11 Sept. 1917; m. Imelda Romualdez; one s. two d.; ed. Univ. of the Philippines; Lieut., later Capt. in the Philippines Army and U.S. Forces in the Far East during Second World War; led own unit in anti-Japanese resistance; Special Asst. to Pres. Manuel Roxas 1946-47; mem. House of Reps. 1949-59, Senate 1959-66; Pres. of Senate 1963-65; Pres. of the Philippines 1965- (re-elected 1969), Prime Minister 1973-; Dag Hammarskjöld Award 1968; numerous war decorations. *Leisure interest:* golf. *Address:* Malacañang Palace, Manila, Philippines.

MARCUS, Aage; Danish writer; b. 31 Dec. 1888; Librarian, Royal Acad. of Fine Arts, Copenhagen 1928-58; editor series of works on popular science 1925-34 and of several other series e.g. Danish Classics 1948 and a series of Sacred Books of the East. *Publications:* Mester Eckehart 1917, Bibliography of Johannes V. Jensen 1933, Bibliography of the History of Danish Art 1935, Leonardo da Vinci 1940, Dun blaa Drage (Chinese Art and Philosophy) 1941, Billedkunsten (Art History of the World) 1942, Danish Portrait Drawings 1950, Christian Mysticism 1953, Rejse i Sverige 1956, Hellas 1958, Höduft og Havluft (essays) 1958, Det hellige Land (The Holy Land) 1959, Danske Levnedsböger (Danish Memoirs) 1965, Religionernes Digtning 1967, Den Lange Vej (Personal Memoirs) 1969. *Address:* Hørsholm, Denmark. *Telephone:* 860511.

MARCUS, Rudolph Arthur; American professor of chemistry; b. 21 July 1923, Montreal, Canada; s. of Myer and Esther Marcus; m. Laura Hearne 1949; three s.; ed. McGill Univ., Montreal, Canada; worked for Nat. Research Council of Canada 1946-49; Univ. of N. Carolina 1949-51; Asst. Prof. Polytechnic Inst. of Brooklyn 1951-54, Assoc. Prof. 1954-58, Prof. 1958-64; Prof. Univ. of Illinois 1964-68; Arthur Amos Noyes Prof. of Chem., Calif. Inst. of Tech. 1978-; Visiting Prof. of Theoretical Chemistry, Oxford Univ. 1975-76; temporary mem. Courant Inst. of Mathematical Sciences, New York Univ. 1960-61; mem. Council, Gordon Research Confs. 1965-68, Chair. Board of Trustees and mem. Board 1966-69; Chair. Div. of Physical Chem., American Chemical Soc. 1964-65; mem. Exec. Cttee. American Physical Soc. Div. of Chemical Physics 1970-72; mem. Advisory Board American Chemical Soc. Petroleum Research Fund 1970-72; mem. Review Cttee. Argonne Nat. Laboratory Chemistry Dept. 1966-72 (Chair. 1968-69), Brookhaven Nat. Laboratory 1971-73, Radiation Lab., Univ. of Notre Dame 1976-78; mem. Nat. Research Council/Nat. Acad. of Sciences Cttee. on Kinetics of Chemical Reactions 1973-77; Chair. 1975-77, Cttee. on Climatic Impact, Panel on Atmospheric Chemistry 1975-78, Cttee. on Chem. Sciences 1977-, Advisory Cttee. for Chem. Nat. Science Foundation 1977-, Review Cttee. Chem. Depts. Princeton Univ. 1972-, Polytechnic Inst. of N.Y. 1977-, Calif. Inst. of Tech. 1977-78; mem. editorial boards, Journal of Chemical Physics 1964-66, Annual Review of Physical Chemistry 1964-69, Journal of Physical Chemistry 1968-72, Accounts of Chemical Research 1968-73, Int. Journal of Chemical Kinetics 1976-, Molecular Physics 1977-; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Prof., Fellow Univ. Coll., Oxford Univ. 1975-76; Assoc. mem. Center for Advanced Studies, Univ. of Illinois 1968-69; Anne Molson prize for Chem. 1943; Nat. Science Foundation Senior Post-Doctoral Fellowship 1960-61; Alfred P. Sloan Fellowship 1960-63; Fulbright-Hays Senior Scholar 1971-72; Alexander von Humboldt Foundation Senior U.S. Scientist Award 1976; Irving Langmuir Award in Chem. Physics (American Chem. Soc.) 1978. *Publications:* numerous articles in scientific journals, especially Journal of Chemical Physics. *Leisure interests:* music and history. *Address:* Department of Chemistry, University of Illinois, Urbana, Ill. 61801; Home: 2207 South Anderson Street, Urbana, Ill. 61801, U.S.A. *Telephone:* 217-333-0537 (Office); 217-367-8684 (Home).

MARCUS, Stanley, B.A.; American business executive b. 20 April 1905; s. of late Herbert Marcus, Sr. and Minnie Lichtenstein Marcus; m. Mary Cantrell 1932; one s. two d.; ed. Amherst Coll., Harvard Univ., and Harvard Business School; joined Neiman-Marcus 1926, Sec., Treas. and Dir. 1928, Merchandise Man. of Sports Shop 1928, Merchandise Man. of all Apparel Divs. 1929, Exec. Vice-Pres. 1935-50, Pres. 1950-72, Chair. of Board, Chief Exec. Officer 1973-75, Chair. Exec. Cttee. 1975-77, Chair. Emer. 1977-; Hon. Dir., Consultant and Corporate Vice-Pres. Carter Hawley Hale Stores Inc., Los Angeles; Dir. Republic of Texas Corpn., New York Life Insurance Co., Jack Lenor Larsen Inc., New York; Dir. Dallas Symphony Soc. (Pres. 1948-49), North Texas State Comm.; founding mem. Business Cttee. for the Arts; Charter mem. Community Assocs. for College 1, Univ. of Texas at Dallas; mem. Gov. Bd., Common Cause 1976-79; mem. Bd. of Visitors for South-West Research Center and Museum, Bishop Coll.; mem. Exec. Cttee., Nat. Council for Arts and Educ.; mem. Harvard Coll. Cttee. on Univ. Resources; mem. Bd. of Publs. of Southern Methodist Univ.; Trustee, Southern Methodist Univ., Baylor Coll. of Dentistry; Hon. Trustee, Cttee. for Econ. Devt.; fmrly. held many similar civic offices; mem. Texas Inst. of Letters 1976; Hon. D.H. (Southern Methodist Univ.) 1965; numerous awards from U.S.A., Austria, Denmark, U.K., Italy, Belgium, France. *Publications:* Minding the Store 1974, My Fashion Business 1976 and numerous articles in the press. *Leisure interests:* collecting primitive books, books on typography, collecting African and other primitive art. *Address:* 1 Nonesuch Road, Dallas, Tex. 75214, U.S.A.

MARCUSE, Herbert, PH.D.; American (naturalized 1940) professor of philosophy; b. 19 July 1898, Berlin, Germany; ed. Univs. of Berlin and Freiburg; went to U.S. 1934; with Inst. of Social Research, Columbia Univ. 1934-40, Russian Inst., Columbia and Harvard Univs. 1951-53; Prof. of Politics and Philosophy, Brandeis Univ. 1954-65; fmr. Prof. of Philosophy, Univ. of Calif. at San Diego; served with Office of Strategic Services and State Dept. 1941-50. *Publications*: Reason and Revolution 1941, Eros and Civilization 1954, Soviet Marxism 1958, One-Dimensional Man 1965, The Ethics of Revolution (essay) 1966, Negations 1968, An Essay on Liberation 1969, Counter-revolution and Revolt 1972, Studies in Critical Philosophy 1972, Zeit-Messungen 1975. (Died 29 July 1979).

MARCZEWSKI, Jan; French university professor; b. 27 May 1908, Warsaw, Poland; s. of Witold Marczewski and Rose Szymanska; m. Janine-Victoire Wroblewska 1930; one s.; ed. Lycée Henri Poincaré, Nancy, Univs. of Nancy, Strasbourg and Paris à la Sorbonne; early career in Polish Consular Service 1926-40; War Service with Polish Army in France; Scientific Dir. Institut de Science Economique Appliquée, Paris, and mem. Higher Council for Nat. Revenue 1946-50; Prof. Inst. Political Studies, Paris, Scientific Dir. East European Section of Nat. Foundation of Political Sciences, and Founder and Dir. Preparation Centre, Univ. of Caen 1952-59, Hon. Prof. 1959-; Hon. Prof. of Economics, Univ. of Paris I 1959-; Hon. Pres. French Econ. Assen., Soc. of Political Econ.; Scientific Dir. Europe de l'Est et Union Soviétique 1952-59; Chevalier Légion d'honneur, Croix de guerre, Krzyż Walecznych (Poland). *Publications:* Politique monétaire et financière du IIIe Reich 1941, Planification et croissance économique des démocraties populaires 1956, La conjoncture économique des Etats-Unis 1850-1960 1961, L'Europe dans la conjoncture mondiale 1963, Comptabilité nationale 1965, Introduction à l'histoire quantitative 1966, Crise de la planification socialiste 1973, Inflation et chômage en France, explication quantative 1977, Vaincre l'inflation et le chômage 1978. *Leisure interests:* skiing, sailing, swimming. *Address:* 53 boulevard Suchet, Paris 16e, France. *Telephone:* 525-57-03.

MAREI, Sayed Ahmed; Egyptian politician; b. 26 Aug. 1913; m. Soad Marei 1941; two s. one d.; ed. Faculty of Agriculture, Cairo Univ.; worked on his father's farm after graduation; subsequently with import-export, pharmaceutical, seed, and fertilizer companies; mem. Egyptian House of Commons 1945-49; Del. mem. Higher Cttee. for Agrarian Reform 1952-; Chair. of Board, Agricultural Co-operative Credit Bank 1955-56; initiated "Supervised Credit System"; Minister of State for Agrarian Reform 1956-57; Minister of Agric. and Agrarian Reform 1957-58; Cent. Minister for Agric. and Agrarian Reform in the U.A.R. 1958-61; later Deputy Speaker U.A.R. Nat. Assembly; Pres. Bank Misr, Cairo 1963-67; Minister of Agric. 1967-70, and of Agrarian Reform 1968-70; Deputy Premier of Agric. and Land Reform, Land Reclamation 1970-72; Sec. Arab Socialist Union 1972-73; Asst. to Pres. 1973-75; Sec.-Gen. UN World Food Conf., Rome 1974, Pres. World Food Council 1975-77; Speaker, People's Assembly 1975-78. *Publications:* Agrarian Reform in Egypt (in English), Agriculture in the U.A.R. Enters a New Era (in English), Problems of Agrarian Reform and the Population Explosion, Food Production in Developing Countries: Possibilities and Means, Agriculture in Egypt (in English), reports on Agricultural Missions to Syria, U.S.S.R., Italy, U.S.A. and Iraq. *Address:* c/o People's Assembly, Cairo; 9 Sh. Shagaret El Dorzamalek, Cairo, Egypt. *Telephone:* 800166.

MARELLA, H. E. Cardinal Paulo, S.T.D., J.C.D.; Italian ecclesiastic; b. 25 Jan. 1895; ed. Roman Seminary, Apollinaris, and Royal Univ., Rome; ordained 1918; official in Sacred Congregation of Propaganda Fide 1921; Counsellor, Apostolic Del. Washington 1923; Titular Archbishop of Doclea 1933-66, Hon. Bishop of Doclea 1966-; Apostolic Del. to Japan 1933, to Australia, New Zealand and Oceania 1948-53, to France 1953-59; Archpriest of St. Peter's Basilica; fmr. Pres. Secr. for non-Christians; cr. Cardinal 1959. *Address:* Via della Conciliazione 44, 00193 Rome, Italy.

MAREMONT, Arnold Harold; American industrialist; b. 24 Aug. 1904, Chicago; s. of Myer D. and Kate Wolens Maremont; m. 1st Virginia Weisels 1928, one s.; m. 2nd Adele Heineman 1937, one s. one d.; m. 3rd Eileen Adler 1968; ed. Chicago Univ.; admitted to Illinois Bar 1926; Dir. Maremont Corpn. 1948-, Pres. 1952-59, Chair. Exec. Cttee. 1969-71; mem. Board of Dirs. Planned Parenthood—World Population 1964-68; mem. Exec. Cttee. Int. Planned Parenthood Fed. 1964; First Vice-Pres. Nat. Assen. Mental Health 1963-66; Assoc. Trustee Bard Coll. 1960-64; Governing Life mem. Art Inst. Chicago. *Address:* 330 Coconut Row, Palm Beach, Fla. 33480, U.S.A.

MARETTE, Jacques, L. ès D., DR. SC. ECON.; French politician; b. 21 Sept. 1922; ed. École Libre des Sciences Politiques; Journalist, France-Soir and Combat; Technical Adviser to Ministry of Industry and Commerce 1958-59; Dep. Sec.-Gen., Union pour la Nouvelle République 1959; Municipal Councillor, Paris 1959; Gen. Councillor, Seine 1959; Senator 1959-62; Political dir. Courrier de la Nouvelle République; fmr. mem. of Supreme Council of Electricity and Gas Authority; Minister of Posts and Telecommunications 1962-67; mem. Nat. Assembly Nov.-Dec. 1962, 1967-; Admin. Soc. Entrepose Belgium 1969-73; Croix de guerre; Médaille de la Résistance. *Address:* 2 avenue du Colonel-Bonnet, 75016 Paris, France.

MARGAI, Sir Albert Michael, Kt.; Sierra Leonean lawyer and politician; b. 10 Oct. 1910; ed. Catholic Schools, Bonthe and Freetown, and Middle Temple, London. Nurse and Druggist 1932-44;

called to the Bar 1947; [illegible] Sierra Leone Protectorate Assembly 1949, Sierra Leone Legis. Council 1951; Minister of Educ. and Welfare, and Local Govt. 1951-57, of Finance 1962-64; Prime Minister of Sierra Leone 1964-67; [illegible] Sierra Leone People's Party 1951-58; founder-mem. People's Nat. Party 1958; Knight of the Grand Cross of St. Gregory the Great. *Address:* 8 Hornsey Rise Gardens, London, N.19, England.

MARGÁIN, Hugo, B.; Mexican lawyer and diplomatist; b. 13 Feb. 1913, Mexico City; m. Margarita Charles 1941; three s. three d.; ed. Univ. Nacional Autónoma de México; Prof. Univ. Nacional Autónoma de Mexico 1947-51; Dir.-Gen. Sales Tax Bureau 1951, Income Tax Bureau 1952-59; Asst. Sec. for Admin. Ministry of Industry and Commerce 1959-61; Under-Sec. for Industry and Commerce 1961-64; Pres. Nat. Comm. for Distribution of Profits 1963-64; Chair. Nat. Comm. on Profit Sharing 1963; Amb. to the U.S.A. 1964-70; Minister of Finance 1970-73; Amb. to U.K. (also accred. to Iceland) 1973-76, to the U.S.A. Jan. 1977-. *Publications:* Importance of Fiscal Law in the Economic Development 60, An Adequate Public Administration 61, World Tax Series Taxation in Mexico 1957, and numerous financial and taxation articles. *Address:* Embassy of Mexico, 2829 16th Street, N.W., Washington, D.C. 20009; Residence: 4925 Loughboro Road, N.W., Washington, D.C. 20016, U.S.A. *Telephone:* 265-5112 (Embassy); 244-8364 (Residence).

MARGARET ROSE, H.R.H. The Princess, Countess of Snowdon, C.I., G.C.V.O., G.C.ST.J.; b. 21 Aug. 1930, Glamis Castle, Angus, Scotland; sister of H.M. Queen Elizabeth II; married Antony Armstrong-Jones (now 1st Earl of Snowdon, *q.v.*) 1960, (divorced 1978); son, Viscount Linley, b. 1961; daughter, Lady Sarah Frances Elizabeth, b. 1964; Chancellor, Univ. of Keele; Pres. Royal Ballet; Grand Cross Order Crown of Belgium; Hon. D.Mus. (London). Hon. LL.D. (Keele). *Address:* 10 Kensington Palace, London, England.

MARGERIE, Christian Jacquin de; French diplomatist; b. 14 May 1911, Versailles; m. Marie-Thérèse de Laboulaye 1937; four s. two d.; ed. Collège Stanislas, Univ. de Paris à la Sorbonne, and Ecole libre des sciences politiques; Attaché Rome 1937-39; Sec. San Franciso Conf. 1945; First Sec. Madrid 1946-48; Counsellor, Washington 1948-51, Vatican 1951-53; mem. French Govt. Del., Berlin 1953-55; Minister, Bonn 1955-57; Dir. Econ. Affairs Cen. Admin., Paris 1958-63; Amb. to Argentina 1963-68, to Netherlands 1968-72, to Greece 1973-76; Commdr. Légion d'honneur, Croix de guerre, Commdr. Ordre du Mérite. *Leisure interests:* tennis, riding. *Address:* 37 rue de Babylone, Paris 7e, France.

MARGERIT, Robert; French author; b. 25 Jan. 1910, Brive; s. of Antoine Margerit and Angélique Daumard; m. Suzanne Hugon; ed. Collège de Brive, and Lycée de Limoges; Prix Théophraste Renaudot 1951, Grand Prix du Roman 1963; Chevalier, Légion d'honneur, Officier des Arts et des Lettres, Officier Ordre nationale du Mérite. *Publications:* L'Ile des perroquets, Mont-Dragon, Le vin des vendangeurs, Par un été torride, Le dieu nu, La femme forte, Le château des bois noirs, La Malaquaise, Les amants, La terre aux loups, L'amour et le temps, Les autels de la peur, Un vent d'acier, Les hommes perdus, Waterloo. *Leisure interests:* painting, sculpture. *Address:* 46 [illegible] Spontini, Paris 16e; and Thias, par Isle, Hte.-Vienne, France. *Telephone:* 727-85-52.

MARGRETHE II, Queen of Denmark; b. 16 April 1940; d. of late King Frederik IX and of Queen Ingrid; m. Count Henri de Laborde de Monpezat (now Prince Henrik of Denmark) 1967; two s.; ed. Univs. of Copenhagen, Aarhus and Cambridge, The Sorbonne, Paris, and London School of Economics; succeeded to the throne 14 Jan 1972; previously undertook many official visits abroad with her husband, travelling extensively in Europe, the Far East, Canada and South America. *Leisure interest:* archaeology. *Address:* Amalienborg Palace, Copenhagen, Denmark.

MARIAM, Lt.-Col. Mengistu Haile; Ethiopian army officer and politician; b. 1937; ed. Holeta Mil. Acad.; served in Army's Third Div., attaining rank of Maj.; mem. Armed Forces Co-ordinating Cttee. (Derg) June 1974-; took leading part in overthrow of Emperor Haile Sellassie Sept. 1974, Head of Derg Exec. Cttee. Nov. 1974; First Vice-Chair. Provisional Military Admin. Council 1974-77, Chair. (Head of State) Feb. 1977-; Chair. Council of Ministers Dec. 1976-. *Address:* c/o Provisional Military Administrative Council, Addis Ababa, Ethiopia.

MARIDAKIS, Georges; Greek lawyer; b. 1890, Sifnos; ed. Univ. of Athens; Prof. of Int. Private Law, Univ. of Athens; fmr. Minister of Justice; mem. Comm. for the drawing up of the Greek Civil Code; Counsel, Court of Cassation; mem. Permanent Court of Arbitration, The Hague; Greek Del. to 8th Private Inst. Law Conf., The Hague 1956; fmr. Judge European Court for Human Rights, Council of Europe; Assoc. of Inst. of Int. Law; Rector, Univ. of Athens 1957-59; fmr. mem. Acad. of Athens; Corresp. [illegible] L'Institut de France; Dr. h.c. (Paris). *Publications:* Le droit civil dans les novelles des Empéreurs Byzantins 1922, Les tendences modernes de droit international privé 1927, Le divorce selon le droit grec 1938, Traité de droit international privé (Vol. I 1950, Vol. II 1956), Les principaux traits de la récente codification hellénique touchant le droit international privé 1954, Introduction [illegible] droit international privé 1962, Exécution des jugements étrangers en Grèce 1970. *Address:* Thiras Street 1960, Athens 814, Greece. *Telephone:* 871-228.

MARIN, Gheorghe Gaston; Romanian politician; b. 1918; ed. Institut Polytechnique, Grenoble, France; Asst. Prof., Institut Polytechnique, Grenoble 1940-44; French resistance 1940-44; [illegible] Communist Party of Romania (CRCP) 1945-, Central Cttee. RCP 1960-; Sec.-Gen. later Deputy Minister of Industry 1947-49; Minister of Electric Power 1949-54; First Deputy Chair. State Planning Cttee. 1954-60, Chair. 1960-65; Deputy Chair. Council of Ministers 1962-69, Pres. State Cttee. for Prices 1969-. *Address:* Comitetul de Stat pentru Preţuri, Str. Doamnei 8, Bucharest, Romania. *Telephone:* 13 22 00.

MARIN, Jean (pseudonym of Yves Morvan); French journalist; b. 24 Feb. 1909; ed. Britanny and Paris; broadcast for Free French from London during World War II; Director-Gen. Agence France Presse 1954, Chair., Gen. Man. 1954-74; elected Pres. Dir.-Gen. 1957, re-elected 1960, 1963, 1966; Pres. European Alliance of Information Agencies 1961-69; Dir. Publicis, Inter-France Quotidiens 1975-; Officier Légion d'honneur, Croix de guerre, Hon. K.B.E. 1975 and other honours. *Address:* c/o Agence France Presse, 11 Place de la Bourse, 75061 Paris, France.

MARINESCU, Mihai; Romanian engineer and politician; b. 22 Nov. 1917, Bîrca, Dolj County; s. of Nicolaie Marinescu and Maria Teodorescu; m. Eugenia Marinescu 1944; one d.; ed. Electromechanics Faculty of Polytechnic Inst. of Bucharest; Head Engineer, Braşov Tractor Plant 1954-63; Deputy Minister of Machine Construction 1963-65, Minister 1965-69; Deputy to Grand Nat. Assembly 1967-; Vice-Chair. Council of Ministers 1969-72, 1975-78; mem. Cen. Cttee. of RCP 1965-; Minister for Technical and Material Supplies and the Control of Fixed Funds 1971-72; Chair. State Planning Cttee. 1975; First Vice-Pres. (with Minister rank) of Council of Econ. and Social Orgs. 1978-. *Address:* Council of Ministers, Bucharest, Romania.

MARINHO, Ilmar Penna, D.IUR.; Brazilian diplomatist; b. 29 Jan. 1913, Rio de Janeiro; s. of Ildefonso Aires and Ignes Penna Marinho; m. (2nd) Lydia Marinho 1961; [illegible] s. (by 1st marriage); ed. Faculty of Law Univ. Fed. do Rio de Janeiro; Diplomatic Service 1934-; Sec., Rome, Quito, Brussels; Counsellor, Warsaw, Paris; Chargé d'affaires, Greece 1940-45; Rep. to Peace Conf. 1946; Rep. to UN Gen. Assembly 1948; Rep. to Inter-Governmental Cttee. for European Migration (ICEM), G[illegible] 1958; Ministry of External Affairs, Rio de Janeiro (Head of Consular Dept., Admin. Dept., later Under-Sec. of Ministry); Perm. Rep. to the OAS 1961-69; Amb. to U.S.S.R. 1969-74; Amb. Perm. Del. to UNESCO, Paris 1974-78. *Address:* Avenida Rui Barbosa 350, Apto. 901, 20.000 Rio de Janeiro RJ, Brazil.

MARINI, Marino; Italian sculptor and painter; b. 27 Feb. 1901, Pistoia; s. of Guido and Bianca Bonacchi; m. Mercedes Pedrazzini 1938; ed. Acad. of Fine Arts of Florence; Prof. Scuola d'Arte de Villa Reale, Monza 1929-40, Titular Prof. of Sculpture, Acad. of Fine Arts of Brera, Milan 1940-69; has exhibited works in many cities of Europe, America and Canada; [illegible] Accad. Nazionale di San Luca, Accademia Fiorentina delle Arti, Accademia Albertina di Bologna, Royal Flemish Acad. of Brussels, Akademisches Kollegium of Munich, Royal Acad. of Fine Arts of Stockholm, Bayerische Akademie der Schönen Künste, Munich, Instituto Accademico di Roma, etc.; Hon. mem. American Acad. of Arts and Letters, Akademie der Bildenden Künste, Nuremberg; Grand Prix Quadriennale Romana 1935; Grand Prix de Sculpture, Venice Biennale 1952; Int. Grand Prix Accademia dei Lincei, Rome 1954; Médaille d'Or du Président de la République 1954; Médaille d'Or de la Ville de Milano 1962; Médaille d'Or, Riconoscimento della Città di Firenze 1967; numerous other awards and honours. *Address:* Piazza Mirabella 2, Milan 20121, Italy. *Telephone:* 6591462.

MARIOLOPOULOS, Elias, M.A., D.U.P., D. ÈS SC.; Greek meteorologist; b. 1900, Athens; m. Catherine Canaguini 1938; ed. Univs. of Athens, Cambridge, London and Paris; Chief, Meteorological Dept. Nat. Observatory, Athens 1925-28; Prof. of Meteorology, Univ. of Thessaloniki 1928-39; Prof. of Meteorology, Univ. of Athens 1939, Rector Univ. of Athens 1959-61; mem. of the Academy of Athens; Pres. Nat. Observatory, Athens 1942, Pres. Nat. Cttee. of

Geophysics and Geodesy; mem. Int. Climatological Comm.; several Greek and foreign decorations. *Publications:* Climate of Greece (Greek), Atlas Climatique de la Grèce (French), Distribution des Eléments météorologiques en Grèce, Climate of Athens, Dodecanese, Climate of Different Regions of Greece, etc. *Leisure interest:* philately. *Address:* 48 Aghias Lavras Street, Patissia, Athens 903, Greece. *Telephone:* 2280024.

MARION, Léo Edmond, C.C., M.B.E., PH.D., F.C.I.C., F.R.S.C., F.R.S.; Canadian chemist; b. 22 March 1899 Ottawa, Ontario; s. of Joseph Marion and Emma Vézina; m. Marie Paule Lefort 1933; ed. Queen's Univ. at Kingston, McGill Univ. and Univ. of Vienna, Austria. Chemist, Nat. Research Council of Canada 1929-43, Head of Organic Chem. Section 1943-63, Dir. Chem. Div. 1952-63, Senior Dir. 1960-, Vice-Pres. (Science) 1963-65; Editor-in-Chief, Canadian Journals of Research 1947-65; Dean, Faculty of Pure and Applied Science, Univ. of Ottawa 1965-69, Hon. Prof., Faculty of Science 1969-; Fellow, Royal Soc. of Canada 1942, Chemical Inst. of Canada, Royal Soc., London 1961; Pres. Royal Soc. of Canada 1964-65, Chemical Inst. of Canada 1961-62; Hon. mem. Soc. Chimique de France 1957, Royal Canadian Inst. 1971; Assen. Canadienne-française pour l'avancement des Sciences Medal 1948, Coronation Medal 1953, Chem. Inst. of Canada Medal 1956, City of Paris Medal 1957, Professional Inst. of Public Service Gold Medal 1959, Jecker Prize, Acad. des Sciences, France 1963, Centennial Medal 1967, Chem. Inst. of Canada Montreal Medal 1969, Jubilee Medal 1977; numerous hon. degrees. *Publications:* several chapters in "The Alkaloids" (ed. R. H. Manske) and numerous scientific papers on the same subject. *Address:* National Research Council of Canada, Ottawa, Ont., K1A 0R6 (Office); 211 Wurtemburg Street, Apt. 1413, Ottawa, Ont., K1N 8R4, Canada (Home).

MARJAI, József; Hungarian politician; b. 1923 Budapest; s. of József Marjai and Erzsébet Biharj; four s.; joined workers movement 1939, Communist Party 1943; took job with Foreign Ministry 1948, leader of various depts; Amb. to Switzerland, Czechoslovakia and Yugoslavia; Deputy Foreign Minister 1970, Sec. of State 1973, Amb. to Moscow 1976; elected mem. Hungarian Socialist Workers Party Cen. Cttee. 1976; Deputy Prime Minister 1978-; Order of Merit for Socialist Fatherland; Labour Order of Merit, Memorial Plaque for Worker-Peasant Power. *Address:* Deputy Prime Minister's Office, Budapest V. Kossuth Lajos tér 1, Hungary. *Telephone:* 120-600.

MARJOLIN, Robert Ernest; French economist; b. 27 July 1911, Paris; s. of Ernest and Elise Marjolin; m. Dorothy Smith 1944 (deceased 1971); one s. one d.; ed. Univ. of Paris and Yale Univ.; Ass. to Prof. Charles Rist, Scientific Inst. of Econ. and Social Research 1934-37; Chief Asst. 1938-39; joined Gen. de Gaulle, London 1941; head of French Supply Mission to U.S.A. 1944; Dir. of External Economic Relations, Ministry of Nat. Economy 1945; Deputy High Commr. of Modernization and Equipment Plan 1946; Sec.-Gen. O.E.E.C. 1948-55; Prof. of Economics, Nancy 1955-58; Vice-Pres. Comm., European Econ. Community 1958-67; Prof. of Econs., Univ. of Paris 1967-70; Dir. Royal Dutch, Shell Française, Robeco; mem. Int. Advisory Cttee. Chase Manhattan Bank; Econ. Consultant; Foreign Hon. mem. American Acad. of Arts and Sciences; Dr. h.c., Yale Univ., Harvard Univ. and Univ. of East Anglia; Commandeur de la Légion d'honneur; American Medal of Freedom; King's Medal, etc.; Hon. C.B.E. (U.K.). *Publications:* L'Evolution du Syndicalisme aux Etats-Unis de Washington à Roosevelt 1936, Prix, Monnaie, Production: Essai sur les mouvements economiques de longue durée 1945, Europe and the United States in the World Economy 1953. *Leisure interests:* music, theatre, cinema, reading. *Address* 9 rue de Valois, 75001 Paris, France. *Telephone:* 261-3758.

MARJORIBANKS, Sir James Alexander Milne, K.C.M.G., M.A.; British diplomatist; b. 29 May 1911, Edinburgh; s. of Thomas Marjoribanks and Mary Ord Logan; m. Sonya Alder 1936; one d.; ed. Edinburgh Acad., Edinburgh Univ., Strasbourg Univ., and Univ. degli Studi, Florence; entered Foreign Office 1934; early service in Peking, Hankow, Marseilles, Jacksonville, Florida, New York, Bucharest, Canberra 1934-52; Deputy Head Del. to High Authority of European Coal and Steel Community 1952-55; Cabinet Office, London 1955-57; Econ. Minister, Bonn 1957-62; Asst. Under-Sec. Foreign Office 1962-65; Amb. to the European Econ. Communities and Head of Del. 1965-71; Dir. Distillers Co. Ltd. 1971-76; Chair. Scottish Council Cttee. on EEC, Vice-Chair. Scotland in Europe; Gen. Council Assessor to Edinburgh Univ. Court 1975-; Governing mem. Inveresk Research Int. Foundation 1978-. *Leisure interests:* mountaineering, golf. *Address:* 13 Regent Terrace, Edinburgh 7; Lintonrig, Kirk Yetholm, Roxburghshire, Scotland.

MARK, Herman F., PH.D.; American professor of chemistry; b. 3 May 1895, Vienna, Austria; s. of Herman C. and Lili Mueller Mark; m. Mary Schramek 1922; two s.; ed. Univ. of Vienna; Instructor, Univ. of Berlin 1921; Research Fellow, later Group Leader, Kaiser Wilhelm Inst. für Faserstoff-Chemie 1922-26; Research Chemist, I.G. Farben-Industrie 1927-28, Group Leader 1928-30, Asst. Research Dir. 1930-32, concurrently Assoc. Prof. of Physical Chem., Technical Univ., Karlsruhe; Prof. of Chem. and Dir. First Chemical Inst., Univ. of Vienna 1932-38; Research Man. Canadian Int. Paper Co., Canada 1938-40; Adjunct Prof. of Organic Chem., Polytechnic Inst. of Brooklyn 1940, Prof. 1942, Dir. Polymer Research 1946. Inst. Dean 1961-65, Dean Emer. 1965-; at Dept. of Textile Chemistry, North Carolina State Univ., Raleigh 1974-; Editor Journal of Polymer Science and other scientific publications; mem. Nat. Acad. of Sciences, American Chemical Soc., American Inst. of Chemists, American Assen. for the Advancement of Science; Fellow, American Physical Soc., New York Acad. of Sciences, American Acad. of Arts and Sciences; numerous hon. degrees and other awards. *Address:* Department of Textile Chemistry, North Carolina State University, P.O. Box 5126, Raleigh, N.C. 27607 (Office); 325 Olean Avenue, Brooklyn, N.Y. 11025, U.S.A. (Home).

MARK, Sir Robert, G.B.E., M.A.; British police official; b. 13 March 1917, Manchester; s. of the late John and Louisa Hobson Mark; m. Kathleen Mary Leahy 1941; one s. one d.; ed. William Hulme's Grammar School, Manchester; Constable to Chief Supt., Manchester Police 1937-42, 1947-56; Chief Constable of Leicester 1957-67; Asst. Commissioner, Metropolitan Police (London) 1967-68, Deputy Commr. 1968-72, Commr. 1972-77; Royal Armoured Corps 1942-47, Lieut. Phantom (GHQ Liaison Regt.) N.W. Europe 1944-45, Major Control Comm. for Germany 1945-47; mem. Standing Advisory Council on Penal System 1966; Assessor to Lord Mountbatten's Inquiry into Prison Security 1966; mem. Advisory Cttee. on Police in N. Ireland 1969; mem. Board Phoenix Assurance (non-exec. dir.); Gov. Corps. of Commissionaires; Visiting Fellow Nuffield Coll., Oxford 1970; Lecture tour of N. America for World Affairs Council and FCO Oct. 1971; Dimbleby Memorial Lecturer, BBC TV 1973; Queen's Police Medal 1965; Hon. LL.M. (Leicester) 1966, Hon. D.Litt. (Loughborough) 1976; Hon. LL.D. (Liverpool) 1978; Hon. Freeman City of Westminster 1977. *Publications:* Numerous articles in the national press and in legal and police journals; Edwin Stevens Lecture to the Laity at the Royal Society of Medicine 1972, Policing ■ Perplexed Society 1977, In the Office of Constable (autobiography) 1978. *Address:* Esher, Surrey, KT10 8LU, England.

MARKALL, Most Rev. Francis William, S.J., D.D.; Rhodesian (b. British) ecclesiastic; b. 24 Sept. 1905, London, England; ed. St. Ignatius Coll., London, Heythrop Coll., Oxon., England; entered Soc. of Jesus 1924; Asst. Master, Stonyhurst Coll. 1931-34; theological studies 1934-38; Missionary in Rhodesia 1939-56; Titular Archbishop of Cotieo, Coadjutor with right of succession to Archbishop of Salisbury April 1956; Archbishop of Salisbury 1956-76; retd. *Address:* Hartmann House, c/o St. George's College, Post Bag 7727, Causeway, Salisbury, Zimbabwe Rhodesia. *Telephone:* St. George's Coll.: Salisbury 24650; Home: Salisbury 26841.

MARKERT, Clement L., PH.D.; American biologist; b. 11 April 1917, Las Animas, Colo.; s. of Edwin John Markert and Sarah Esther Norman; m. Margaret Rempfer 1940; two s. one d.; ed. Univ. of Colorado, Univ. of Calif. at Los Angeles, Johns Hopkins Univ. and Calif. Inst. of Technology; Asst. Prof. of Zoology, Univ. of Michigan 1950-56, Assoc. Prof. 1956-57; Prof. of Biology, Johns Hopkins Univ. 1957-65; Prof. of Biology, Yale Univ. 1965-; Chair. Dept. of Biology 1965-71; Dir. Yale Center for Research in Reproductive Biology 1974-; mem. Nat. Acad. of Sciences, Nat. Inst. of Medicine 1974-; American Acad. of Arts and Sciences; mem. Board Scientific Advisors, La Jolla Cancer Research Foundation 1977-; Trustee Bermuda Biological Station for Research 1959-, BIOSIS 1976-; numerous editorial positions on biological journals. *Publications:* Over seventy articles. *Leisure interests:* skin diving, ranching. *Address:* Department of Biology, Yale University, New Haven, Conn. 06520, U.S.A. *Telephone:* (203)436-1675.

MARKEVITCH, Igor; Italian composer and conductor; b. 27 July 1912, Kiev, Russia; s. of Boris and Zola Pokitonov Markevitch; m. 1st Kyra Nijinsky 1936, one s.; 2nd Topazia Caetani 1946, one s. two d.; ed. Coll. de Vevey, Switzerland; Leader of Orchestra of Florence and Maggio Musicale 1944-46; Int. Conductor since 1946; Perm. Conductor, Stockholm Philharmonic Orchestra 1952-55, Music Dir. Symphony Orchestra, Montreal 1955-60, Havana Philharmonic Orchestra 1957-58, Montreal Symphony Orchestra 1956-60, Lamoureux Orchestra, Paris 1956-61; Perm. Conductor Spanish Radio-Television Orchestra 1965-70; Artistic Dir. Monte Carlo Opera and Orchestra 1968-72; Perm. Conductor Santa Cecilia Orchestra, Rome 1973-75; Conductor Emer. Japan Philharmonic Orchestra 1968-; Head of Orchestra Conducting Classes at Salzburg 1947-54, Mexico Pan-American Courses 1957-58, Moscow 1963, Santiago de Compostela 1966, Monte Carlo 1968-72; mem. Royal

Swedish Acad.; Officier Légion d'honneur; Commdr. Ordre des Arts et Lettres, Order of Merit of Repub. Italy. *Compositions:* Piano Concerto 1929, Cantata on words by Cocteau 1929, Rebus 1931, Icare 1932, Psalm 1933, Paradise Lost 1935, also chamber music. *Publications:* Made in Italy 1946, Point d'Orgue 1961, Introduction to Music. *Address:* 1800 Montreux, Switzerland: 06780 Saint Cézaire, France. *Telephone:* 93-36-8847 (France).

MARKEZINIS, Spyros, LL.D.; Greek lawyer, historian and politician; b. 1909, Athens; m. Ieta Xydis 1943; one s. one d.; ed. Univ. of Athens; Legal Adviser to late King George II of the Hellenes 1936-46; served in Greek Nat. Resistance 1941-44; mem. Parl. for the Cyclades 1946, for Athens 1952-67; f. New Party 1947 (dissolved 1951); Minister without Portfolio 1949; Minister for Co-ordination and Econ. Planning until 1954; formed Progressive Party Feb. 1955; Prime Minister Oct.-Nov. 1973; Knight, Gold Cross George I, D.S.M., Knight Commdr. St. Saba; Grand Cross of following: Order of Phoenix (Greece), Légion d'honneur, Al Merito della Repubblica Italiana, Merit First Class (Germany), Order of St. Mark of the Patriarchate of Alexandria. *Publications:* The Divorce, From War to Peace 1949, The Supreme Ruler in Contemporary Democracies, The King, the Royal Family and their Private Lives, The King as International Representative, Political History of Modern Greece (1828-1964) (4 vols.). *Leisure interests:* books, chess. *Address:* 5 Lycabettus Street, Athens, Greece. *Telephone:* 610-887, 610-756, 616-062.

MARKIEWICZ, Władysław; Polish sociologist; b. 2 Jan. 1920, Ostrów Wielkopolski; s. of Józef and Bronisława Markiewicz; m. Ludgarda Trzybińska 1949; one s. one d.; ed.Poznań Univ.; Doctor 1959-61, Docent 1961-66, Assoc. Prof. 1966-72, Prof. 1972-; active mem. youth orgs. 1947-50; mem. People's Council, Poznań Voivodship 1949-54; Vice-Dir. Western Inst., Poznań 1962-64, Dir. 1965-71; Dir. Inst. of Sociology, Poznań Univ. 1969-72; Head, Dept. of Sociology of Labour and Org., Warsaw Univ. 1975-76; Editor-in-Chief Studia Socjologiczne (quarterly) and Polish Western Affairs; Vice-Chair. Polish Cttee. of UNESCO; Pres. Polish Sociological Soc. 1968-72; Corresp. mem. Polish Acad. of Sciences 1971-76, Ordinary mem. 1976-, Sec. of Dept. of Social Sciences 1972-; mem. Polish Cttee. of Pugwash confs.; Gold Cross of Merit, Knight's Cross, Order of Polonia Restituta, Medals of 10th and 30th Anniversaries of People's Poland, Gold Award of Polish Teachers' Assen. *Publications:* Przeobrażenia świadomości narodowej reemigrantów polskich z Francji 60, Społeczeństwo i socjologia w Niemieckiej Republice Federalnej 1966, Sociology in People's Poland 1970, Propedeutyka nauki o społeczeństwie 1971, Socjologia ■ służba społeczna 1972; numerous articles. *Address:* Ul. Wiejska 18 m. 13, 00-490 Warsaw, Poland. *Telephone:* 29-80-30.

MARKING, Sir Henry Ernest, K.C.V.O., C.B.E., M.C.; British lawyer and company director; b. 11 March 1920, Saffron Walden, Essex; s. of Isaac and Hilda Jane Marking; ed. Saffron Walden Grammar School, Univ. Coll., London, Middle East Centre for Arab Studies, Jerusalem; army service 1939-45, Adjutant 1944-45; admitted Solicitor 1948; Asst. Solicitor Cripps, Harries, Hall & Co., Tunbridge Wells 1948-49; Asst. Solicitor British European Airways (BEA) 1949, Sec. BEA 1950, Chief Exec. 1964-71, Chair. and Chief Exec. 1971-72; mem. Board of British Overseas Airways Corpn. (BOAC) 1971-72; Group Man. Dir. British Airways 1972-74, Deputy Chair. and Man. Dir. 1974-76, mem. Board 1977-; mem. Board of British Tourist Authority 1969-77, Chair. 1977-; Dir. Barclays Bank Int. 1977-; Trustee and Vice-Chair. Leonard Cheshire Foundation 1962-. *Leisure interests:* horseriding, gardening. *Address:* British Tourist Authority, 64 St. James's Street, London, SW1A 1NF, England. *Telephone:* 01-629 9191.

MARKO, Ján, ING.; Czechoslovak politician; b. 6 Sept. 1920, Točnica, Slovakia; ed. School of Econs., Bratislava Univ.; office worker, Production Manager, Dir. Slovak Magnesite Works, Lovinobaňa 1947-54; Finance Commr. 1954-59; Deputy Chair. of Board of Commrs. 1959-60; Dir. of Slovak Magnesite Works, Košice 1960-62; Deputy Minister-Chair. of State Comm. for Co-ordination of Science and Technology, Prague 1962-63; Slovak Comm. for Investment Building 1963-65; Commr.-Chair., Minister, Slovak Comm. for Technology 1965-68; Minister of Foreign Affairs, Fed. Govt. of Č.S.S.R. 1969-71; mem. Slovak Nat. Council 1954-71; mem. Cen. Cttee. of CP of Czechoslovakia 1954-62, 1969-, Alt. mem. 1962-66; Deputy Chair Slovak Nat. Council 1965-68; mem. Cen. Cttee. of Czechoslovak-Soviet Friendship Union 1966-70; mem. Cen. Cttee. CP of Slovakia 1966-68; Deputy to House of Nations, Fed. Assembly 1968-71, First Vice-Chair. Fed. Assembly 1971-, Deputy to House of the People 1971-; Presidium mem. Fed. Assembly, Č.S.S.R. 1971; Chair. Czechoslovak Group of Inter-Parl. Union 1971-; mem. Presidium Č.S.S.R. Cttee. for European Security 1972-; Chair. Czechoslovak Cttee. for the Protection of the Rights of the Chilean People 1974-; Order of Labour 1970, and other decorations. *Address:* Federal Assembly, Prague, Czechoslovakia.

MARKOS, Miloš, JU.DR., DR.SC.; Czechoslovak journalist, broadcasting official and politician; b. 4 March 1922, Hronská Dúbrava; s. of Pavel and Alžběta Marko; m. Magda Kirchhoffová 1948; two d.; ed. Comenius Univ. Bratislava; journalist on various Slovak dailies; Asst. Editor-in-Chief Pravda 1948-52, Editor-in-Chief 1953-58; Editor-in-Chief Predvoj 1958-60; Correspondent of the Czechoslovak News Agency in Moscow 1960-64; Asst. Prof. of Journalism, Comenius Univ., Bratislava 1962-; Regional Dir. Czechoslovak Radio, Bratislava 1964-67; Gen. Dir. Czechoslovak Radio, Prague Feb. 1967-68; mem. Ideological Comm., Central Cttee. of CP of Slovakia 1966-69; Gen. Man. Czechoslovak Radio, Slovakia 1969-73; Vice-Chair. and mem. Presidium Union of Slovak Journalists 1969-72, Chair. 1972-; Chair. Central Union of Journalists of Č.S.S.R. 1969-72, Vice-Chair. 1972-; mem. Presidium Central Cttee. Czechoslovak-Soviet Friendship Union 1969-; mem. Cen. Cttee. CP of Slovakia 1971-; Deputy to Slovak Nat. Council 1971-; Gen. Man. Czechoslovak TV, Slovakia 1973-; Deputy Gen. Man. Czechoslovak TV 1973-; Order of Labour 1970; Klement Gottwald Prize 1973. *Address:* TV Bratislava, Slovakia; and Štefánikova 12, Bratislava, Czechoslovakia. *Telephone:* 471-12 (Home).

MARKÓJA, Dr. Imre; Hungarian lawyer and politician; b. 1931, Hetes, County Somogy; ed. in Fötvös Lóránd Univ. Budapest; joined Communist Party 1948 and worked on the staff of Party organ Társadalmi Szemle; Deputy Minister of Justice 1963; Secr. of State 1973; Minister of Justice 1978-; mem. Bd. Hungarian Lawyers Fed.; mem. Cttee. for Law and Political Science Hungarian Acad. of Sciences; Pres. of Council of Legal Extension Training Inst.; Chair. editorial board of periodical Magyar Jog; Labour Order of Merit. *Address:* Ministry of Justice, 1055 Budapest, Szalay-utca 16, Hungary. *Telephone:* 115-055.

MARKOV, Dmitriy Fyodorovich; Soviet philologist; b. 5 Nov. 1913, Preslav, Zaporozphye region, Ukraine; ed. Kharkov Univ.; School Teacher 1936-38; Postgraduate 1938-41; Army Service 1941-44; Head of Chair. Pedagogical Inst. Sumy 1944-56; mem. CPSU 1948-; Senior Research Assoc. 1956-63; Head of Sector Inst. of Slavonic and Balkan Studies, U.S.S.R. Acad. of Sciences 1969; Corresp. mem U.S.S.R. Acad of Sciences 1966-; Foreign mem. Bulgarian Acad. of Sciences; Dimitrov Prize 1972; Order of Red Banner and other decorations. *Publications:* Main works devoted to Bulgarian literature and a study of the laws of the 20th century literary process among the western and southern Slavs. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

MARKOV, Konstantin Konstantinovich, D.SC.; Soviet geographer; b. 20 May 1905, Viborg; s. of Konstantin and Marie Markov; m. Anastasie Markova 1931; one d.; ed. Leningrad Univ.; Lecturer, Leningrad Univ. 1926-37; Head of Section, Inst. of Geography, U.S.S.R. Acad. of Sciences 1937-45; mem. staff, Moscow Univ. 1937-, Prof. 1940-, Head of Dept. 1946, Dean, Faculty of Geography 1945-55; Academician, U.S.S.R. Acad. of Sciences 1970-; mem. CPSU 1944; U.S.S.R. State Prize and various decorations. *Publications:* The Development of the Relief of the Northwest part of Leningrad Region 1931, Fundamental Problems of Geomorphology 1948, The Geography of Antarctica 1968, Reminiscences and Thoughts of ■ Geographer 1973. *Leisure interests:* riding, poetry. *Address:* Moscow University, Section "U", Flat 56, Moscow 117234, U.S.S.R.

MARKOV, Moisey Aleksandrovich; Soviet theoretical physicist; b. 13 May 1908, Rasskazovo, Tambov Region; ed. Moscow, Univ.; Associate, Physics Inst., U.S.S.R. Acad. of Sciences 1934-; Chair. of Group Joint Inst. for Nuclear Research 1951-; Dir. Inst. of Semi-Conductors, U.S.S.R. Acad. of Sciences until 1962; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-66, mem. 1966-; Sec. Section of Nuclear Physics of U.S.S.R. Acad. of Sciences 1967-; Chair. interdepartmental comm. on nuclear physics 1971-; Order of Lenin (three times), Hammer and Sickle Gold Medal, Hero of Socialist Labour and other decorations. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

MARKOVA, Dame Alicia, D.B.E. (Lilian Alicia Marks); British prima ballerina; b. 1 Dec. 1910, London; d. of Arthur Tristman Marks and Eileen Barry; ed. privately; first appeared in Dick Whittington at the Kennington Theatre 1920; studied under Astafieva and appeared with Legat Ballet Group 1923; taken into Russian Ballet by Serge Diaghilev 1924, studied under Enrico Cecchetti and toured with the company till Diaghilev's death in 1929 (Song of a Nightingale created for her); first Prima Ballerina of Vic-Wells (now the Royal Ballet) 1933-35; formed Markova-Dolin Ballet

Company 1935 and toured U.K. till 1938; with Ballet Russe de Monte Carlo 1938-41; and Ballet Theatre 1941-44; toured North and Central America with Markova-Dolin group 1944-45; many guest appearances 1946-47; concerts with Dolin in United States, Far East and South Africa 1947-49; formed Festival Ballet company with Dolin 1950-52; guest artist with Teatro Colón in Buenos Aires 1952, Sadler's Wells, Ballet Theatre, Marquis de Cuevas Ballet and Metropolitan Opera 1953; Royal Winnipeg Ballet 1953; with de Cuevas Ballet in London 1954; with Royal Danish Ballet 1955; Scala Milan, Municipal Theatre Rio de Janeiro 1956; Royal Ballet Covent Garden 1957; Italian Opera Season, Drury Lane, Festival Ballet Tour 1958, and Season 1959; appearances with Royal Ballet and Festival Ballet 1960; with the Metropolitan Opera Company 1954-58; Dir. Metropolitan Opera Ballet of New York 1963-69; Distinguished Lecturer on Ballet at Cincinnati Univ. 1970, Prof. of Ballet and Performing Arts 1971-73; produced Les Sylphides, Australian Ballet 1976, London Festival Ballet 1977, Northern Ballet Theatre 1978, Royal Ballet School 1978; Vice-Pres. Royal Acad. of Dancing 1958-; Guest Prof., Royal Ballet School 1972-; Gov. Royal Ballet 1973-; Guest Prof. de Danse, Paris Opera Ballet 1975; Guest Prof., Australian Ballet 1976; Hon. Dr. Music (Leicester) 1966. *Publication:* Giselle and I 1960. *Leisure interest:* music. *Address:* c/o Barclay's Bank, 451 Oxford Street, London, W.1, England.

MARKS, Leonard Harold, B.A., LL.B.; American lawyer and government official; b. 5 March 1916; m. Dorothy L. Ames 1948; two s., ed. Univ. of Pittsburgh, and Univ. of Pittsburgh Law School; Faculty Fellow, Univ. of Pittsburgh Law School 1938-39, Asst. Prof. 1939-42; Asst. Prof. Nat. Univ. Law School, Washington, D.C. 1943-50; Asst. to Gen. Counsel, Fed. Communications Comm., Washington, D.C. 1943-46; Partner, Cohn and Marks (law firm), Washington, D.C. 1946-65, 1969-; Dir. Communications Satellite Corpn. 1963-65; Dir. U.S. Information Agency 1965-69; Pres. Broadcasters' Club of Washington, Nat. Home Library Foundation, Int. Rescue Cttee. 1973-; Chair. Int. Telecommunications Satellite Conference, U.S. Delegation, Washington, D.C. 1969, U.S. Advisory Comm. on Int. Educational and Cultural Affairs 1974-, Nat. Savings and Trust Co. 1977-; Pres. Honor America Cttee. 1977-. *Address:* 1920 L Street, N.W., Washington, D.C. 20036 (Office); 2833 McGill Terrace, N.W., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 293-3860 (Office); 232-7214 (Home).

MARLAND, Sidney P., Jr., M.A., PH.D.; American educationist and fmr. government official; b. 19 Aug. 1914, Danielson, Conn.; s. of Sidney P. Marland, Sr. and Ruth Johnson; m. Virginia Partridge 1940; one s. two d.; ed. Univ. of Connecticut and New York Univ.; Teacher of English, William Hall School, West Hartford, Conn. 1938-41; U.S. Army Service 1941-47; Supt. of Schools, Darien, Conn. 1948-56, Winnetka, Ill. 1956-63, Pittsburgh, Pa. 1963-68; Pres. Inst. for Educational Devt., New York City 1968-70; fmr. mem. Presidential Advisory Council on Educ. of Disadvantaged Children and for Office of Econ. Opportunity; U.S. Commr. of Educ. 1970-72; Asst. Sec. for Educ., Health, Educ. and Welfare Dept. 1972-73; Pres. Coll. Entrance Examination Board 1973-; mem. Bd. Divs. Nat. Manpower Inst.; fmr. Visiting Prof. and Lecturer at Harvard, Northwestern Univ., Teachers Coll., Columbia Univ., and Nat. Coll. of Educ.; fmr. Visiting Prof. Univs. of Conn., New York. *Publications:* Winnetka: The History and Significance of an Educational Experiment (with Carleton W. Washburne), Career Education: A Proposal for Reform 1974, The College Board and the Twentieth Century 1975, and numerous monographs, book contributions and journal articles. *Address:* College Entrance Examination Board, 888 Seventh Avenue, New York, N.Y. 10019, U.S.A. *Telephone:* (212) 582-6210.

MARLER, Peter Robert, PH.D.; American biologist; b. 24 Feb. 1928, London, England; s. of Robert A. and Gertrude Hunt Marler; m. Judith G. Gallen 1954; one s. two d.; ed. Univ. Coll., London and Univ. of Cambridge; Research Fellow, Jesus Coll., Cambridge 1954-56; Asst. Prof., later Prof., Univ. of Calif., Berkeley 1957-66; Prof. The Rockefeller Univ. 1966-; Senior Research Zoologist, N.Y. Zoological Soc. 1966-72; Dir. Inst. for Research in Animal Behaviour 1969-72; Dir. Rockefeller Univ. Field Research Center 1972-; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences, American Assen. for Advancement of Science 1965, New York Zoological Soc., American Psychological Assen. 1975; Guggenheim Fellow 1964-65. *Publications:* Mechanisms of Animal Behaviour (with W. J. Hamilton 1966. *Leisure interests:* gardening, natural history. *Address:* Rockefeller University Field Research Center, Tyrrel Road, Millbrook N.Y. 12545, U.S.A. *Telephone:* (914) 677-5356.

MARÓTHY, Lázló; Hungarian politician; b. 1942, Szeghalom; s. of László and Julianna Emódi Maróthy; m. Irén Hajdu 1966; two c.; ed. Univ. of Agronomy; joined Communist Youth League 1960, Hungarian Socialist Workers' Party 1965; Sec. County Pest Communist Youth Cttee. 1968-70; First Sec. Municipal Party Cttee. of Szentendre; First Sec. Nat. Communist Youth League Cen. Cttee. 1973-; mem. HSWP Cen. Cttee. 1973-, Politburo 1975-. *Address:* c/o Hungarian Socialist Workers' Party, 1387 Budapest, Széchenyi rakpart 19, Hungary. *Telephone:* 111-400.

MAROUF, Taha Muhyiddin, LL.B.; Iraqi politician and diplomatist; b. 1924, Sulaimaniyah; s. of Muhyiddin and Fatima Marouf; ed. Coll. of Law, Univ. of Baghdad; worked as lawyer; joined Diplomatic Service 1949; Minister of State 1968-70; Minister of Works and Housing 1968; Amb. to Italy, concurrently non-resident Amb. to Malta and Albania 1970-74; Vice-Pres. of Iraq April 1974–; mem. Higher Cttee. of Nat. Progressive Front 1975-; Chair. African Affairs Bureau of Revolutionary Command Council 1976-. *Address:* Office of the Vice-President of the Republic, National Assembly Building, Baghdad, Iraq.

MARQUARD, William A.; American business executive; b. 6 March 1920, Pittsburgh, Pa.; ed. Univ. of Pennsylvania; fmrly. held positions with Westinghouse Electric Corpn.; joined the Mosler Safe Co. (purchased by American Standard 1967) 1952, Vice-Pres. 1956, Senior Vice-Pres. and Dir. 1961, Pres. 1967-70; Senior Exec. Vice-Pres. Chief Operating Officer and Dir. American Standard Oct. 1970, Pres. Feb. 1971-, Chief Exec. Officer Aug. 1971-; Dir. NL Industries, Inc., Shell Oil Co., Houston, Chemical N.Y. Corpn. and Chemical Bank, N.Y. Life Insurance Co.; Dir. Nat. Minority Purchasing Council; mem. Conf. Board, Econ. Club of N.Y., Board of Overseas, Wharton School of Business; Trustee, Citizens Budget Comm. Inc., Univ. of Pa., N.Y. Infirmary. *Address:* American Standard, 40 West 40th Street, New York, N.Y. 10018, U.S.A. *Telephone:* (212) 840-5100.

MARQUARDT, Klaus Max, DR.RER.POL.; German business executive; b. 18 Dec. 1926, Berlin; s. of Dr. Arno and Ruth Marquardt; m. Brigitte Weber; three d.; ed. Realgymnasium Berlin, Universität Berlin and Technische Universität Berlin; Chair. Man. Board, ARAL AG; mem. Supervisory Board, Gerling-Konzern Rheinische Verwaltungs-Gruppe AG, Westfalenbank AG. *Address:* ARAL Aktiengesellschaft, 463 Bochum, Wittenerstrasse 45 (Office); 463 Bochum-Stiepel, Roggenkamp 14, Federal Republic of Germany. (Home). *Telephone:* 0234-3152200 (Office); 0234-791091 (Home).

MARQUEZ, Vernon O.; Canadian business executive; b. 15 Sept. 1908, Trinidad, West Indies; m. Margaret Amy; two s. two d.; ed. St. Mary's Coll., Trinidad; joined Northern Telecom Ltd. 1929, Gen. Man. Sales Div. 1957, Vice-Pres. 1960, Exec. Vice-Pres. 1963, Dir. 1963-, Pres. and Chief Exec. Officer 1967-70, Chair. of Board and Pres. 1970, Chair. of Board and Chief Exec. Officer 1971-73, Consultant 1973-; Dir. Cleyn and Tinker Ltd., Quebec Industrial Relations Inst.; Chair. Bishop's Univ. Dept. of Business Admin.; Life Gov. Montreal Gen. Hospital; Commdr. Brother Order of St. John of Jerusalem. *Leisure interests:* riding, gardening. *Address:* Northern Telecom Ltd., 1600 Dorchester Boulevard, W., Montreal 108, Quebec (Office); 2890 Ste. Angelique Road, St. Lazare, Quebec, Canada. (Home).

MARQUINA BARREDO, Ignacio; Mexican architect and archaeologist; b. 1913; ed. Colegio Soriano, National Preparatory School, and Acad. Nacional de Bellas Artes, Univ. Nacional Autónoma de Univ. Mexico; Prof. of Composition, Acâd. Nacional de Bellas Artes, Univ. Nacional Autónoma de Mexico; Prof. of Prehispanic Architecture, Nat. School of Anthropology and History; Dir. of Prehistoric Monuments; Adviser to Nat. Indian Inst.; Dir. numerous explorations; Dir. Nat. Inst. of Anthropology and History 1947-56; Sec.-Gen. Pan-American Inst. of Geography and History 1956-65; *Publications:* Estudio Arquitectónico de los Monumentos de Teotihuacán 1922, Arquitectura Cristiana en el Valle de Teotihuacán 1922, Estudio Arquitectónico Comparativo de los Monumentos Arqueológicos de México 1928, Tenayuca, La Orientacáon de las Pirámides de México 1931, Tenayuca, Estudio Arqueológico de la Pirámide 1932, Arquitectura Prehispánica 1951. *Address:* Cádiz Sur 24, Mixcoac-Insurgentes, México 20, D.F., Mexico.

MARRE, Sir Alan Samuel, K.C.B., M.A.; British fmr. public servant; b. 25 Feb. 1914, London; s. of Joseph and Rebecca Green Marre; m. Romola Mary Gilling 1943; one s. one d.; ed. St. Olave's Grammar School, Southwark and Trinity Hall, Cambridge; Asst. Principal, Ministry of Health 1936, Principal, 1941. Asst. Sec. 1946, Under-Sec. 1952; Under-Sec. Ministry of Labour 1963; Deputy Sec. Ministry of Health 1964, Ministry of Labour (later Dept. of Employment and Productivity) 1966; Second Perm. Under-Sec. of State, Dept. of Health and Social Security 1968-71; Parl. Commr. for Admin. (Ombudsman) 1971-76, Health Service Commr. 1973-76; mem. Council on Tribunals 1971-76; mem. Comm. for Local

Admin. 1974-76; Chair. Age Concern England 1977-; Vice-Chair. Advisory Cttee. on Distinction Awards 1978-. *Leisure interests:* reading, walking. *Address:* 44 The Vale, London NW11 8SG, England.

MARRIAN, Guy Frederic, C.B.E., D.SC., F.R.I.C., F.I.BIOL., F.R.S.; British biochemist; b. 3 March 1904, London; s. of Frederick Marrian and Mary Currie; m. Phyllis Lewis 1928; two d.; ed. Tollington School and Univ. Coll., London; Lecturer Univ. Coll. London 1930-33; Associate Prof. Univ. of Toronto 1933-35; Prof. Univ. of Toronto 1935-38; Prof. of Chemistry in Relation to Medicine, Univ. of Edinburgh 1935-39; Dir. of Research, Imperial Cancer Research Fund 1959-68; Meldola Medal of Royal Inst. of Chemistry 1931; Francis Amory Prize of American Acad. of Arts and Sciences 1947, Dale Medal of the Soc. of Endocrinology 1966; Hon. M.D. (Edinburgh). *Leisure interests:* gardening, bird watching. *Address:* School Cottage, Ickham, Canterbury, Kent, England. *Telephone:* Littlebourne 317.

MARRINER, Neville; British musician and conductor; b. 15 April 1924, Lincoln; s. of Herbert H. and Ethel M. Marriner; m. Elizabeth M. Sims 1958, one s. one d.; ed. Lincoln School, Royal Coll. of Music; Dir., Acad. of St. Martin in the Fields 1959-; Musical Dir. Los Angeles Chamber Orchestra 1969-; Dir. South Bank Festival of Music 1975-78, Dir. Meadowbrook Festival Detroit 1979; Music Dir. Minn. Orchestra 1979-; Tagore Gold Medal, four Edison Awards (Netherlands), two Mozart Gemeinde Awards (Austria), Grand Prix du Disque (France). *Address:* 67 Cornwall Gardens, London, S.W.7, England.

MARRIS, Stephen Nicholson, M.A., PH.D.; British economist and international civil servant; b. 7 Jan. 1930, London; s. of Eric Denyer Marris and Phyllis May Marris; m. Margaret Swindells 1955; two s. one d.; ed. Bryanston School and King's Coll., Cambridge; Parker of Waddington Research Student, Cambridge Univ. 1952-53; Nat. Inst. of Econ. and Social Research, London 1953-54; with Org. for European Econ. Co-operation, later named Org. for Econ. Co-operation and Devt. (OECD) 1956-, Econ. Adviser to the Sec.-Gen. 1975-; Visiting Research Prof., Int. Econs., Brookings Institution, Washington, D.C. 1969-70. *Publications:* The Burgenstock Communique (Princeton Univ.): A Critical Examination of the Case for Limited Exchange-Rate Flexibility 1970. *Address:* 8 Sentier des Pierres Blanches, 92190 Meudon, France. *Telephone:* 524-87-70 (Office); 626-34-35 (Home).

MARSH, Dame Ngaio, D.B.E.; New Zealand novelist and theatrical producer; b. 23 April 1899, Ferdalton, Christchurch; d. of Henry E. and Rose Elizabeth Seager Marsh; ed. St. Margaret's Coll., New Zealand, and Canterbury Univ. Coll. School of Art, Christchurch, New Zealand; joined English theatrical company touring New Zealand; on stage for two years; Red Cross Transport Unit, Second World War; Producer, D. D. O'Connor Theatre Management, N.Z. 1944; Hon. D.Litt (Canterbury N.Z.) *Publications:* A Man Lay Dead 1934, Enter a Murderer 1935, Nursing Home Murder (with H. Jellett) 1936, Death in Ecstasy 1937, Vintage Murder 1937, Artists in Crime 1938, Death in a White Tie 1938, Overture to Death 1939, Death at the Bar 1940, Surfeit of Lampreys 1941, Death and the Dancing Footman 1942, Colour Scheme 1943, Died in the Wool 1945, Final Curtain 1947, Swing Brother Swing 1948, Opening Night 1951, Spinsters in Jeopardy 1953, Scales of Justice 1955, Off With His Head 1957, Singing in the Shrouds 1959, False Scent 1960, Hand in Glove 1962, Dead Water 1964, Black Beech and Honey Dew (autobiography) 1966, Death at the Dolphin 1967, Clutch of Constables 1968, When in Rome 1969, Tied Up in Tinsel 1972, Black as He's Painted 1974, Last Ditch 1977, Grave Mistake 1978. Television: Evil Liver (for ITV in Britain). *Leisure interests:* travel, painting, gardening. *Address:* 37 Valley Road, Cashmere, Christchurch, New Zealand; c/o Hughes Massie, 69 Great Russell Street, London, WC1B 3DH, England.

MARSH, Rt. Hon. Sir Richard William, Kt., P.C.; British politician and public servant; b. 14 March 1928; m. 1st Evelyn Mary Andrews 1950 (divorced 1973), two s.; m. 2nd Caroline Dutton 1973 (died 1975); ed. Jennings School, Swindon, Woolwich Polytechnic and Ruskin Coll., Oxford; Health Services Officer, Nat. Union of Public Employees 1951-59; mem. Clerical and Admin. Whitley Council for Health Service 1953-59; M.P. for Greenwich 1959-71; Parl. Sec. Ministry of Labour 1964-65; Joint Parl. Sec. Ministry of Technology 1965-66; Minister of Power 1966-68, of Transport 1968-69; Dir. Michael Saunders Management Services 1970-71, Nat. Carbonising Ltd., Concord Rotaflex; Chair. British Railways Board 1971-76, Newspaper Publishers Assn. Ltd. 1976-, Allied Investments Ltd. 1977-, British Iron & Steel Consumers' Council 1977-. *Publication:* Off the Rails (memoirs) 1978. *Address:* Newspaper Publishers Association Ltd., 6 Bouverie Street, London, EC4Y 8AY, England.

MARSHAK, Robert E., PH.D.; American university professor; b. 1916, New York City; m. Ruth Gup 1943; one s. one d.; ed. Columbia Coll. and Cornell Univ.; Univ. of Rochester 1939-70, Chair. and Harris Prof., Dept. of Physics and Astronomy 1950-64, Distinguished Univ. Prof. 1964-70; mem. School of Mathematics, Inst. for Advanced Studies, Princeton 1948; visiting lecturer to numerous univs. and colls. throughout the world 1940-67; Avco Visiting Prof., Cornell Univ. 1959, Buhl Visiting Prof., Carnegie Mellon Univ. 1968, Distinguished Visitor Univ. of Texas 1970; Pres. City Coll. of New York 1970-; Physicist, Radiation Lab., Mass. Inst. of Technology (M.I.T.), Montreal Atomic Energy Lab., Los Alamos Scientific Lab. 1942-46; Chair. Fed. of American Scientists 1947-48; Vice-Chair. N.Y. State Advisory Comm. on Atomic Energy 1957-58; Trustee, Atoms for Peace Awards 1958-70, Univ. Research Asscn. 1968-70; mem. various univ. cttees. etc.; Consultant to IAEA on establishment of Int. Center for Theoretical Physics, Trieste 1961-63; American mem. of Science Council, Int. Center for Theoretical Physics 1967-75; Sec. Comm. of High Energy Physics, Int. Union of Pure and Applied Physics 1957-63; mem. Joint Cttee. on U.S.-Japan Science Co-operative Program 1968-72; mem. Amer. Acad. of Arts and Sciences (Chair. Cttee. on World Univ. and Int. Science Foundation 1969-71), Nat. Acad. of Sciences (Chair. Advisory Cttee. for Soviet Union and E. Europe 1963-66, Head of Del. to Poland 1964, to Yugoslavia 1965, mem. Report Review Cttee. 1970-, Rep. on Nat. Comm. for UNESCO Exec. Cttee. 1970-73, Council 1971-74); mem. Interim Board for Int. Foundation of Science, Stockholm 1972-75; mem. Council, American Physical Soc. 1965-69, Exec. Cttee. 1968-69, Vice-Chair. (and Chair. Div. of Particles and Fields) 1969-70; Guggenheim Fellow 1953-54, 1960-61, 1967-68; first Niels Bohr Visiting Prof., Inst. of Mathematical Sciences, Madras (India) 1963; N.Y. Acad. of Sciences Prize in Astronomy 1940. *Publications:* Our Atomic World (with E. C. Nelson and L. I. Schiff) 1946, Messon Physics 1952, Introduction to Elementary Particle Physics (with E. C. G. Sudarshan) 1961, Perspectives in Modern Physics (editor) 1966, Advances in Particle Physics (joint editor, 2 vols.) 1968, 1969, Theory of Weak Interactions in Particle Physics (with Riazuddin and C. P. Ryan) 1969. *Leisure interests:* skiing, music. *Address:* City College of New York, 138th Street at Convent Avenue, New York, N.Y. 10031, U.S.A.

MARSHALL, David Saul, LL.B.; Singapore diplomatist and fmr. politician; b. 12 March 1908, Singapore; s. of Saul Nassim Mashaal and Flora Ezekiel; m. Jean Mary Gray 1961; one s. three d.; ed. Raffles Institution, Middle Temple and Univ. of London; worked in Singapore ■■ sharebroker, salesman and sec. to ■ shipping co. 1924-32; then studied law in England and began legal career in Singapore 1937-; joined Singapore Volunteer Corps 1938; imprisoned by Japanese 1942-45; founder Sec. War Prisoners Asscn.; mem. Jewish Welfare Board; founder mem. Labour Front; Chief Minister of Singapore 1955-56; mem. Singapore Legislative Assembly 1961-63; Del. to XXIII Session of UN Gen. Assembly 1968; Chair. Singapore Inst. of S.E. Asian Studies 1970-74 Amb. to France Dec. 1978-. *Address:* Embassy of Singapore, Ave. Georges V 34, Paris 75008, France.

MARSHALL, Ray, PH.D.; American economist and government official; b. 22 Aug. 1928, Oak Grove, La.; m. Patricia Williams 1947; two s. three d.; ed. Millsaps Coll., Miss., Louisiana State Univ., Univ. of California at Berkeley. Fullbright Research Scholar, Finland; post-doctoral Research, Harvard Univ.; Instructor San Francisco State Coll.; Assoc. Prof. and Prof. Univs. of Mississippi, Kentucky, Texas; Dir. Center for Study of Human Resources, Texas Univ.; Pres. Nat. Rural Centre, Washington, D.C.; Chair. Fed. Cttee. on Apprenticeship; mem. Nat. Council on Employment Policies; Pres. Industrial Relations Research Asscn.; U.S. Sec. of Labor Jan. 1977-. *Publications:* The Negro Worker 1967, The Negro and Apprenticeship 1967, Cooperatives and Rural Poverty in the South 1971, Human Resources and Labor Markets 1972, Anthology of Labor Economics 1972, Rural Workers in Rural Labor Markets 1974, Human Resources and Labor Markets 1975, Labor Economics: Wages, Employment and Trade Unionism 1976, The Role of Unions in the American Economy 1976. *Address:* Department of Labor, 3rd Street and Constitution Avenue, N.W., Washington, D.C. 20210, U.S.A.

MARSHALL, J. Howard, II, A.B., LL.B.; American business executive; b. 24 Jan. 1905, Philadelphia Pa.; s. of S. Furman and Annabelle T. Marshall; ed. George School, Haverford Coll., and Yale School of Law; Instructor ■■d Asst. Cruise Dir. Floating Univ. Inc. 1926-27, Cruise Dir. 1928-29; Asst. Dean and Asst. Prof. of Law, Yale School of Law 1931-33; Special Asst. to Attorney-Gen. and Asst. Solicitor, U.S. Dept. of Interior, and mem. Petroleum Admin. Board 1933-35; Counsel, Standard Oil Co. of Calif. 1935-37; Assoc., Pillsbury, Madison and Sutro (Corporate Attorneys)

1937-38, Partner 1938-44; Dir., Pacific City Lines, Inc. 1938-41; Vice-Pres. and Dir. Long Beach Oil Development Corpn. 1939-42, 1959-; Chief Counsel and Asst. Deputy Administrator, Petroleum Administration for War 1941-44; mem. Mil. Petroleum Advisory Board 1944-50, 1954-59; Gen. Counsel, U.S. Del., Allied Comm. on Reparations 1945; Pres. Dir. Ashland Oil and Refining Co. 1944-51; Exec. Vice-Pres. and Dir. Signal Oil and Gas Co. 1952-60; Pres. and Dir. Union Texas Natural Gas Corpn, 1961-62; Pres. Union Petroleum 1962-67; Exec. Vice-Pres. and Dir. Allied Chemical Corpn. 1965-67; Chair. of Board The Petroleum Corpn. 1968-; Dir. Nat. Industries Inc., Texas Commerce Bank (Houston); Dir. and Chair. Exec. Cttee. Coastal States Gas Corpn. 1973-; Dir. MKT Railroad, etc.; Consultant to Sec. of the Interior on Petroleum Defense Program 1950-52; mem. American Petroleum Inst., Nat. Petroleum Council, Independent Petroleum Assn., fmr. Consultant. *Address:* 1320 Esperson Building, Houston, Tex. 77002 (Office); 11100 Meadowick, Houston, Tex. 77024 U.S.A. (Home). *Telephone:* (713) 227-7245; (713) 782-6582.

MARSHALL, Rt. Hon. Sir John Ross, P.C., G.B.E., C.H., B.A., LL.M.; New Zealand lawyer and politician; b. 5 March 1912, Wellington; s. of Allan Marshall; m. Margaret Livingston 1944; two s. two d.; ed. Victoria Univ. Coll., Univ. of N.Z.; admitted barrister and solicitor of Supreme Court of N.Z. 1936; served with N.Z. Expeditionary Force in Pacific and Italy (Major, Infantry), Second World War 1941-46; elected M.P. 1946-75; Lecturer in Law, Victoria Univ. Coll. 1948-51, Visiting Fellow 1975-; Minister Assisting the Prime Minister and Minister for State Advances Corpn., Public Trust Office and Census and Statistics 1949-54; also Minister of Health 1951-54, of Information and Publicity 1951-57; Minister of Justice and Attorney-Gen. 1954-57; Deputy Prime Minister 1957; Deputy Leader of Opposition 1957-60; Deputy Prime Minister and Minister of Overseas Trade 1960-72; Minister of Customs 1960-61; Minister of Industries and Commerce 1960-69; Attorney-Gen. 1969-71; Minister of Labour and Immigration 1969-72; Prime Minister Feb.-Dec. 1972; Leader of the Opposition 1973-74; New Zealand Rep. Colombo Plan Conf., New Delhi 1953; Commonwealth Prime Ministers Conf. 1962, Trade Ministers Conf. 1963, 1966, Parl. Conf. 1965; GATT Conf., Geneva 1961, 1963, 1966; Econ. Comm. for Asia and the Far East (ECAFE) Conf., Tokyo 1962, Teheran 1964, Chair. ECAFE Wellington 1965, New Delhi 1966, Canberra 1968, Bangkok 1970; UN 1970; ILO Conf., Geneva 1971; EEC negotiations 1961-71; Chair. Nat. Devt. Conf. 1968, 1969; Chair. Nat. Devt. Council 1969-72, New Zealand Comm. for Expo 1970; Chair. Cttee. of Inquiry on Registration of Teachers 1976-77; Visiting Fellow Victoria Univ. of Wellington; mem. Advisory Council, World Peace through Law; Chair. Nat. Bank of N.Z. Ltd., Phillips Electrical Inds. N.Z. Ltd., Contractors Bonding and Discount Corpn. Ltd., Norwich Wintherthur Insurance (N.Z.) Ltd., DRG (N.Z.) Ltd.; Dir. Norwich Union Life Insurance Soc., Hallenstein Bros. Ltd., Fletcher Holdings Ltd; Consultant Partner, Buddle, Anderson, Kent and Co.; Pres. N.Z. Bible Soc., British Sailors Soc.; Hon. Bencher Gray's Inn 1973; Hon. LL.D.; mem. Nat. Party, Leader 1972-74. *Publications:* Law Relating to Watercourses, Reform of Parliament (Editor), The Adventures of Dr. Duffer (children's stories). *Leisure interests:* golf, fishing, breeding Connemara ponies. *Address:* 22 Fitzroy Street, Wellington I, New Zealand. *Telephone:* 736631.

MARSHALL, Thurgood; American lawyer and government official; b. 2 July 1908, Baltimore, Md.; s. of William and Norma Marshall; m. 1st Vivian Burey 1929 (deceased), 2nd Cecilia Suyat 1955; two s.; ed. Lincoln Univ., Pennsylvania, and Howard Univ. Law School, Washington, D.C.; Dir.-Gen. Nat. Assn. for Advancement of Colored People Legal Defense and Educ. Fund 1940-61; Judge, Second Circuit Court of Appeals 1961-65; Solicitor-Gen. of U.S.A. 1965-67; Assoc. Justice, U.S. Supreme Court 1967-; Spingarn Medal 1946; mem. Board of Dirs. John F. Kennedy Library; mem. American Bar Assn., Assn. of the Bar of the City of New York, Nat. Bar Assn., N.Y.C. County Lawyers Assn.; Living History Award; numerous awards, medals and citations. *Address:* U.S. Supreme Court, Washington, D.C. 20543, U.S.A.

MARSHALL, Walter Charles, C.B.E., PH.D., F.R.S.; British physicist; b. 5 March 1932, Wales; s. of Frank and Amy Marshall; m. Ann Vivienne Sheppard 1955; one s. one d.; ed. Birmingham Univ.; Scientific Officer, Atomic Energy Research Establishment, Harwell 1954-57; Research Physicist, Univ. of Calif. and Harvard Univ. 1957-59; Group Leader, Solid State Theory, Atomic Energy Research Establishment Harwell 1959-60, Head, Theoretical Physics Div. 1960-66, Deputy Dir. 1966-68, Dir. 1968-75; Dir. Research Group, U.K. Atomic Energy Authority 1969-75; mem. Nat. Research Devt. Corpn. Board 1969-75; mem. U.K. Atomic Energy Authority 1972-, Dep. Chair. 1975-; Chief Scientist, Dept. of Energy 1974-77; Fellow Royal Swedish Acad. of Eng. Sciences, British Inst. of Man.; Maxwell Medal. *Publications:* Thermal Neutron Scattering 1971, research papers on magnetism, neutron scattering and solid state theory. *Leisure interests:* origami, croquet, gardening, chess. *Address:* U.K. Atomic Energy Authority London Office, 11 Charles II Street, London SW1Y 4QP (Office); Bridleway House, Goring-on-Thames, Oxon, England. (Home). *Telephone:* 01-930 5454 ext. 531 (Office); Goring 2890 (Home).

MARSTON, Robert Quarles, B.S., M.D.; American science administrator; b. 12 Feb. 1923, Toano, Va.; s. of Warren and Helen Smith Marston; m. Ann Carter Garnett 1946; two s. one d.; ed. Virginia Military Inst., Medical Coll. of Virginia and Oxford Univ.; Intern, John Hopkins Univ. 1949-50; Asst. Resident, Vanderbilt Univ. Hospital, Nashville, Tenn. 1950-51; Asst. Resident, Medical Coll. of Virginia, Richmond 1953-54, Asst. Prof. of Medicine 1954-57, Dean in Charge of Student Affairs 1959-61; Asst. Prof. of Bacteriology and Immunology, Univ. of Minnesota 1958-59; Dir. of Univ. of Miss. Medical Center and Dean of School of Medicine, Jackson, Miss. 1961-65; Vice-Chancellor, Univ. of Miss. and Dean of School of Medicine 1965-66; Assoc. Dir. Nat. Insts. of Health, Bethesda, Md., and Dir. of Regional Medical Programs 1966-68, Dir. Nat. Insts. of Health 1968-73; Scholar-in-Residence Univ. of Virginia 1973-74; Pres. Univ. of Fla. 1974-; mem. Board, Johnson and Johnson; Rhodes Scholar 1947-49, Markle Scholar 1954-59; mem. Exec. Cttee. Nat. Assn. of State Univs. and Land Grant Colls., Council Inst. of Medicine, Assn. of American Physicians; Hon. mem. Nat. Medical Assn. 1969, American Hospital Assn. 1969; Distinguished Fellow Inst. of Medicine, Nat. Acad. of Sciences 1973; Distinguished mem. Assn. of American Medical Colls.; Hon. Fellow, Lincoln Coll.; five Hon. degrees. *Publications:* Numerous articles in the field of infectious diseases, medical education, and administration of health programmes. *Leisure interests:* sailing, camping, music, reading. *Address:* University of Florida, Gainesville, Fla. 32601, U.S.A.

MÁRTA, Ferenc, D.CHEM.; Hungarian chemist; b. 12 Jan. 1929, Kiskundorozsma; Head of Dept. of Physics and Chem., József Attila, Univ., Szeged 1962, Rector 1967-73; Corresp. mem. Hungarian Acad. of Sciences 1970, full mem. 1976-, Gen. Sec. 1975-; mem. Szeged Municipal Exec. Cttee. of Hungarian Socialist Workers' Party 1966, Cen. Cttee. 1971-; mem. Cttee. on Science Policy, Nat. Council of Public Educ., Presidium of Nat. Cttee. on Technological Devt., Council of Assn. of Hungarian Chemists; Hon. Dr. Odessa State Univ. 1975; Order of Labour (Silver 1964, Gold 1973). *Address:* c/o Hungarian Academy of Sciences, 1361 Budapest, P.O. Box 6, Roosevelt tér 9, Hungary. *Telephone:* 119-812.

MARTENS, Wilfried, DR. EN DROIT; Belgian politician; b. Sleidinge, 19 April 1936; m. Lieve Verschroeven; two d.; ed. Louvain Univ.; fmr. Leader Vlaamse Volksbeweging; Adviser to Harmel Cabinet 1965, to van den Boeynants Cabinet 1966; Minister of Community Problems 1968; Pres. Christelijke Volkspartij (CVP) 1972-; mem. Parl. for Ghent-Eeklo 1974; co-founder of Europese Volkspartij (EVP); Prime Minister of Belgium April 1979-. *Address:* 6 van Monckhoevenstraat, 9000 Ghent, Belgium.

MARTIN, Archer John Porter, C.B.E., M.A., PH.D., F.R.S.; British chemist; b. 1 March 1910, London; s. of Dr. William A. P. and Lillian K. Martin; m. Judith Bagenal 1943; two s. three d.; ed. Bedford School, and Peterhouse, Cambridge; Research, Cambridge, Physical Chemical Lab., Nutritional Lab. 1933-38; Wool Industries Research Assn., Leeds 1938-46; Boots' Pure Drug Co. Research Dept., Nottingham 1946-48; mem. staff Medical Research Council 1948-52; Head of Physical Chemistry Div., Nat. Inst. for Medical Research, Mill Hill, London, 1952-56; Chemical Consultant 1956-59; Dir. Abbotsbury Laboratories Ltd. 1959-70; Consultant to Wellcome Foundation Ltd. 1970-73; Extraordinary Prof. Eindhoven Technological Univ., Holland 1964-74; MRC Professional Fellowship of Chem., Univ. of Sussex 1973-; Robert A. Welch Prof. of Chem., Univ. of Houston, Texas 1974-79; Berzelius Gold Medal of Swedish Medical Society 1951; shared Nobel Prize in Chemistry 1952; Hon. Fellow (Cambridge) 1974; John Scott Award 1958, John Price Wetherill Medal 1959, Franklin Inst. Medal 1959, Leverhulme Medal 1963, Kolthoff Medal 1969, Callendar Medal 1971; Order of the Rising Sun, 2nd Class (Japan) 1972; Achievement Award The Worshipful Co. of Scientific Instrument Makers 1972; Hon. D.Sc. (Leeds) 1968, (Glasgow) 1972 *Address:* Abbotsbury, Barnet Lane, Elstree, Herts., WD6 3RD, England. *Telephone:* 01-953 1031.

MARTIN, Edmund Fible, B.S., ENG.D.; American steel executive; b. 2 Nov. 1902; ed. Stevens Inst. of Technology; with Bethlehem Steel Corpn. mills, Bethlehem 1922-70, Supt. 1928-39, Asst. Supt. Saucon Div. Bethlehem plant 1939-46, Asst. Gen. Manager Lackawanna, N.Y., plant of Bethlehem Steel 1946-50, Gen. Manager 1950-58; Vice-Pres. Steel Div., Bethlehem Steel Corpn. 1958-60;

Dir. Bethlehem Steel Corpn. 1958-70, Pres. 1960-63, Vice-Chair. 1963-64, Chair. and Chief Exec. 1964-70; Trustees Nat. Industrial Conf. Board 1960-70, Stevens Inst. of Technology, Lehigh Univ., St. Luke's Hospital Bethlehem; Hon. Dir. American Iron and Steel Inst. (Chair. and Chief Exec. Officer 1967-69), J. P. Morgan & Co. Inc., Morgan Guaranty Trust Co., New York, The Pennsylvania Soc., Bethlehem Area Foundation; Hon. Dr. Eng. (Buffalo) 1961, Hon. LL.D. (Moravian Coll.) 1964, (Lehigh) 1966, (Valparaiso) 1967; Hon. Eng.D. (Stevens Inst. of Technology) 1967; Knight Commdr., Royal Order of the North Star, Sweden; Grand Band of the Order of the Star of Africa (Liberia); Knight Commdr. of the Southern Cross (Brazil), numerous other awards. *Address:* Suite 310, 437 Main Street, Bethlehem, Pa. 18018, U.S.A.

MARTIN, Edwin McCammon; American government official; b. 21 May 1908, Dayton, Ohio; s. of Harry Judson and Clara McCammon Martin; m. Margaret Milburn 1936; one s. one d.; ed. Northwestern Univ.; Economist, Central Statistical Board 1935-38, Bureau of Labor Statistics 1938-40; Exec., War Production Board 1940-44; Asst. Chief, and Dep. Chief of Div., Office of Strategic Services 1944-45; Chief, Japanese and Korean Economic Affairs, Dept. of State 1945-47, Chief of Div. for Occupied Area Economic Affairs 1947-48, Dep. Dir., Office of Int. Trade Policy 1948-49, Dir., Office for European Regional Affairs 1949-52; Special Asst. to Sec. of State for Mutual Security Affairs 1952-53; Alternate Perm. Rep. to NATO 1953-57; Minister for Economic Affairs, American Embassy, London 1957-59; Asst. Sec. of State for Economic Affairs 1960-62, Asst. Sec. of State for Inter-American Affairs, Dept. of State 1962-64; Amb. to Argentina 1964-68; Chair. Devt. Assistance Cttee. OECD, Paris 1968-74; U.S. Co-ordinator World Food Conf. 1974; Chair. Consultative Cttee. on Food Production and Investment in Developing Countries, Int. Bank for Reconstruction and Devt. 1974-. *Leisure interests:* golf, wild flower photography, history, philately, bird watching. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington D.C. 20433 (Office); 4101 Cathedral Avenue, Washington, D.C. 20016, U.S.A. (Home).

MARTIN, Dean (Dino Crocetti); American actor and singer; b. 17 June, 1917, Steubenville, Ohio; s. of Guy Crocetti; m. 1st Elizabeth Ann MacDonald 1940, (divorced 1947); one s., three d.; m. 2nd Jeanne Bieggers 1969 (divorced) two s. one d.; m. 3rd Catherine Mae Hawn 1973 (divorced 1976); An amateur prize fighter before becoming a singer; first partnered with Jerry Lewis at the 500 Club, Atlantic City N.J.; made film debut with Lewis in My Friend Irma 1949; other films include: My Friend Irma Goes West 1950, That's My Boy 1951, Sailor Beware 1952, Jumping Jack 1952, The Stooge 1953, Scared Stiff 1953, The Caddy 1953, Living it Up 1954, Three Ring Circus 1954, You're Never Too Young 1954, Pardners 1956, Hollywood or Bust 1956, The Young Lions 1958, Some Came Running 1958, Rio Bravo 1959, Who Was That Lady? 1960, Bells Are Ringing 1960, Sergeants Three 1962, Toys in the Attic 1963, Who's Been Sleeping in My Bed? 1963, What a Way to Go 1964, Robin and the Seven Hoods 1964, Kiss Me Stupid 1964, The Sons of Katie Elder 1965, The Silencers 1966, Murderer's Row 1967, The Ambushers 1967, Bandolero 1968, How to Save a Marriage 1968, Five Card Stud 1968, The Wrecking Crew 1968, Airport 1969, Something Big 1971, Showdown 1973; television appearances include: Dean Martin Show, Dean's Place 1975, Dean Martin's Celebrity Roast; has played in many nightclubs, especially in Las Vegas. *Address:* c/o Chasin-Park Citron Agency; 10889 Wilshire Boulevard, Los Angeles, Calif. 90024,; 601 Mountain Drive, Beverly Hills, Calif. 90210, U.S.A. (Home).

MARTIN, Graham (Anderson), A.B.; American government official and diplomatist; b. 22 Sept. 1912, Mars Hill, N.C.; s. of the Rev. Gustav A. and Hildreth Marshbanks Martin; m. Dorothy Wallace 1934; one s. two d.; ed. Wake Forest Coll.; Washington newspaper corresp. 1932-33; Aide to Deputy Admin. Nat. Recovery Admin. 1933-36; Asst. to Chair., Social Security Board 1936-37, Dist. Man. 1937-41; Regional Dir. Fed. Security Agency 1941-42, Chief Field Operations 1946; U.S. Army service 1942-46; Chief of Bureau, War Assets Admin. 1946-47; U.S. Foreign Service 1947-, Attaché, France 1947-50, Counsellor 1951-55, Asst. Chief of Mission 1953-55; Dept. of State Adviser, Air War Coll. 1955-57; Special Asst., Under Sec. of State for Econ. Affairs 1957-59; Special Asst., Under Sec. of State 1959-60; Consul Gen. Geneva 1960-61; Amb. to UN Geneva 1960-62; Deputy Asst. Admin. Agency for Int. Development 1962-63; Amb. to Thailand 1963-67; U.S. Rep. to Council of SEATO 1963-67; Perm. Rep. to ECAFE 1963-67; Special Asst. to Sec. of State 1967-69, 1976-; Amb. to Italy 1969-73, to Repub. of Viet-Nam 1973-75; mem. American Acad. of Political and Social Science, American Foreign Service Assen. (Vice-Pres. 1962-63); Dept. of State Distinguished Honor Award 1967, Plaque for Humanitarian Service, Nat. Conf. on World Refugee Problems 1969. *Publications:* Toward a Modern Diplomacy (report to the American Foreign Service Assen.) 1968. *Leisure interests:* golf, tennis, sailing. *Address:* 907 N Stratford Road, Winston-Salem, N.C. 27104, U.S.A.

MARTIN, John Edward; American business executive; b. 11 Dec. 1904; ed. Bryson Coll.; Sales Engineer, Link Belt Co., Chicago 1927-33, Manager, Stoker Div. 1933-41; U.S. Army Ordnance Dept. 1942-43; Gen. Manager Link Belt Ordnance Co. Chicago 1944-45; Vice-Pres. (Operations), Dir. American Type Founders Inc. 1945-77; Pres. and Dir. Firestone Steel Products Co. 1948-52; Exec. Vice-Pres. Dana Corpn., Toledo 1952-53, Pres., Dir. 1954-, Chair. of Board 1966-72, Chair. Exec. Cttee. 1972-; Chair. of Board Hayes-Dana Ltd., Canada 1962-64, Dir. 64-; Chair. of Board American Health Foundation 1972-. *Address:* Dana Corporation, 4500 Dorr Street, Toledo, O. 43615, U.S.A.

MARTIN, Sir (John) Leslie, Kt., M.A., PH.D., F.R.I.B.A.; British architect; b. 17 Aug. 1908, m. Sadie Speight; one s. one d.; ed. Manchester Univ. School of Architecture; Asst. Lecturer, Manchester Univ. 1930-34; Dir. Hull School of Architecture 1934-39; Principal Asst. Architect L.M.S. Railway 1939-48; Deputy Architect, London County Council 1948-53, Architect 1953-56; Prof. of Architecture, Cambridge Univ. 1956-72; Fellow, Jesus Coll., Cambridge 1956-72, Hon. Fellow 1973-; Fellow, Royal Inst. of British Architects, Council mem. 1952-58, Vice-Pres. 1955-57; Slade Prof. Oxford 1965-66; Ferens Prof. Hull 1966-67; Visiting Prof. of Architecture, Yale Univ. 1973-74; mem. Royal Fine Art Comm. 1958-72; Hon. mem. Assen. of Finnish Architects; Corresp. mem. Nat. Acad. S. Luca, Rome; awards include Soane Medal 1930 and London Bronze Architectural Medal 1954; R.I.B.A. Distinction in Town Planning; Hon. LL.D. (Leicester, Manchester, Hull and Essex); Royal Gold Medal (Arch.) 1973. *Address:* Church Street Barns, Great Shelford, Cambridge, England. *Telephone:* Shelford 2399.

MARTIN, Leonard Charles James, B.SC.(ECON.); British civil servant; b. 26 June 1920, Hove, Sussex; s. of Leonard and Esther Avis Martin; m. Althea Lilian Charles 1945; three d.; ed. London School of Econs. and Political Science; Ministry of Educ. and Dept. of Educ. and Science 1946-65; Ministry of Overseas Devt. 1965-; U.K. Perm. Del. to UNESCO 1965-68; Head of Overseas Manpower Div., Ministry of Overseas Devt. 1968-73, Under-Sec. Ministry of Overseas Devt. 1968-; Head of UN Div., Ministry of Overseas Devt. 1973-; mem. Exec. Board of UNESCO 1974-78, Chair. 1976-78; mem. Dels. to UNESCO Gen. Confs. 1962, 1964, 1966, 1968, 1974, 1976 (leader); mem. Dels to FAO 1973, 1975, 1977 (leader); leader, Del. to UNIDO 1974. *Address:* Ministry of Overseas Development, Eland House, Stag Place, London, SW1E 5DH, England. *Telephone:* 01-834 2377

MARTIN, Ludwig; German lawyer; b. 25 April 1909, Martinszell, Bavaria; s. of Joachim and Maria Endrass Martin; m. Renate Borgmeyer 1943; two s. two d.; ed. Munich; Assessor, Munich High Court 1937-39; Scientific Assistant, Supreme Court, Leipzig 1939; Military Service 1939-45; Chair Santhofen Court 1946-50; Civil Rights Dept., Fed. Ministry of Justice 1950; Fed. Attorney 1952-53; Fed. Judge, Fed. Supreme Court 1953-63; Fed. Attorney-Gen. 1963-74, Pres. German Section, Int. Comm. of Jurists; Pres. German-Italian Assen. of Jurists *Leisure interests:* walking, swimming, photography, music, reading. *Address:* Postfach 51 02 29, D-7500 Karlsruhe 51, Federal Republic of Germany.

MARTIN, Hon. Paul Joseph James, P.C., C.C., Q.C., M.A., LL.M.; Canadian lawyer and politician; b. 23 June 1903, Ottawa, Ont.; s. of Phillip Ernest and Lumina Marie Chouinard Martin; m. Eleanor Adams 1937; one s. one d.; ed. St. Alexandre Coll., Ironsides, Que., St. Michael's Coll., Osgoode Hall Law School, Toronto, Univ. of Toronto, Harvard Law School, Trinity Coll., Cambridge, and Geneva School of International Studies; Lecturer in Political Science, Assumption Coll., Univ. of Western Ontario 1931-34; senior partner firm of Martin, Laird, Easton & Cowan 1934-63; mem. of Parl. for Essex East 1935-68; K.C. 1937; Del. to L.N. Assembly 1938; Parl. Asst. to Minister of Labour 1943; Chair. Canadian Govt. Del. and Chair. Employment Comm. ILO Conf., Philadelphia 1944; Sec. of State of Canada 1945-46; Minister of Nat. Health and Welfare 1946-57; Sec. of State for External Affairs 1963-68; Senior Minister and Leader of Govt. in Senate 1968-74; High Commr. in U.K. 1974-; Del. to 1st, 4th, 7th, 10th, 18th, 19th and 20th General Assemblies of the UN. to 1st Session of Econ. and Social Council (London) 1946 and to 3rd and 5th Sessions (New York 1946 and 1947); Pres. NATO 1965-66; Del. Consultative Cttee., Colombo Plan, Wellington, N.Z. 1956; Chancellor, Wilfrid Laurier Univ. 1972-; Hon. mem. Acad. Political Science, New York; Hon. Col. Windsor Regt.; Hon. LL.D., D.C.L., Dr. Humanities; Grand

Medaille D'Or de L'Ordre International du Bien Public (France) 1971; Christian Culture Award 1956; Liberal. *Address:* Canadian High Commission, Macdonald House, 1 Grosvenor Square, London, W.1, England; 2021 Ontario Avenue, Windsor, Ont., Canada. *Telephone:* 01-629 9492 (High Commission).

MARTIN, Robin Geoffrey, M.A.; British business executive. b. 9 March 1921, Wolverhampton; s. of Cecil Martin and late Isabel K. Hickman; m. Margery Chester (née Yates) 1946; two s. one d.; ed. Cheltenham Coll. and Jesus Coll., Cambridge; Joined Tarmac Ltd. 1945, Dir. 1955; Man. Dir. Tarmac Roadstone Ltd. 1958; Group Man. Dir. 1963; Deputy Chair. Tarmac Ltd. 1967; Man. Dir. Tarmac Derby Ltd. 1968; Chair. and Chief Exec. Tarmac Ltd. 1971-; non-Exec. Dir. Serck Ltd. 1971-74, Deputy Chair. 1974-76, Chair. and Chief Exec. 1976-; Dir. Midland Advisory Board Legal and General Assurance Soc. Ltd. 1977-; Dir. Soc. de Pavage et des Asphaltes de Paris 1974, Burmah Oil Co. Ltd. 1975, Ductile Steels Ltd. 1977. *Leisure interests:* golf, sailing, skiing. *Address:* Tarmac Ltd., Ettingshall, Wolverhampton WV4 6JP (Office); The Field, The Wergs, Tettenhall, nr. Wolverhampton, England. *Telephone:* 0902-41101 (Office); 0902-751719 (Home).

MARTIN, Roger Léon René; French businessman; b. 8 April 1915; s. of Gilbert Martin and Andrée Eugénie (Portemer); m., two s. one d.; m. 2nd Renée Guernier, one s. two d. (previous marriage); ed. Ecole Polytechnique and Ecole Nat. Supérieure des Mines; Ingénieur des Mines, Nancy 1941-42; Asst. to Steel Industry Dir., Dept. of Industry (French Govt.) 1942-46; Lecturer Ecole Nat. des Mines 1945-53; joined Compagnie de Pont-à-Mousson 1948, Asst. Gen. Man. 1953, Gen. Man. 1959-64, Pres. and Gen. Manager 1964-70; Pres. Cie. de Saint-Gobain-Pont-à-Mousson 1970-; Dir. Co. Financière de Suez, Crédit Industriel et Commercial, Electricité de France, Pricel, Rhône-Poulenc, Int. Saint-Gobain Soc. Lyonnaise des Eaux et de l'Eclairage, Bureau de Recherches géologiques et minières, Certain-teed, Soc. des Mines et Fonderies de Zinc de la Vieille Montagne; Commdr. Légion d'Honneur. *Address:* 54 avenue Hoche, 75365 Paris, Cédex 08; 86 rue d'Assas, Paris 6e, France. *Telephone:* 763 1212.

MARTIN, William Frederick, B.S.; American petroleum executive; b. 31 March 1917, Blackwell, Okla.; s. of Fred and Emma Buchholz Martin; m. Betty J. Randall 1941; one s. one d.; ed. Blackwell High School and Univ. of Oklahoma; joined Phillips Petroleum Co. 1939, Treas. 1960, Treas. and Sec. 1962, mem. Board of Dirs. 1964, Senior Vice-Pres. 1965, Exec. Vice-Pres. 1968, Pres. Oct. 1971-73, Pres. and Chief Exec. Officer 1973-74, Chair. and Chief Exec. Officer 1974-. *Address:* 18 Phillips Building, Bartlesville, Okla. 74004 (Office); 615 East 16th Place, Bartlesville, Okla. 74003, U.S.A. (Home). *Telephone:* 661-3817 (Office); 336-8159 (Home).

MARTIN, William McChesney, Jr., B.A.; American financier; b. 17 Dec. 1906; ed. Yale and Columbia Univs., Benton College of Law, St. Louis; Fed. Reserve Bank of St. Louis 1928-29; Head, Statistical Dept. A. G. Edwards and Sons, St. Louis 1929-31, Partner 1931-38; mem. N.Y. Stock Exchange 1931-38, Gov. 1935-38, Chair. Comm. on Constitution 1937-38, Sec. Conway Comm. to reorganise the Exchange 1937-38; Chair. of Board and Pres. pro tem. May-June 1938, Pres. 1938-41; published and edited Economic Forum 1932-34; drafted as private, U.S. Army 1941; attained rank of Col. 1945; Asst. to Exec., President's Soviet Protocol Cttee. and Munitions Assignments Board 1942; Dir. Export-Import Bank of Washington 1945, Chair. and Pres. 1946; Asst. Sec. of the Treasury 1949-51; Chair. Federal Reserve Board 1951-70; Dir. U.S. Steel 1970-, Caterpillar Tractor; Chair. Comm. to reorganize N.Y. Stock Exchange 1971-; U.S. Exec. Dir., Int. Bank 1949-52; Trustee Berry Schools, Rome, Georgia and The Johns Hopkins Univ.; Fellow Nat. Geographic Soc.; Hon. LL.D. (Temple, Tulane, Washington, Trinity, Pennsylvania, Yale, Tufts, Columbia, Washington and Lee, Hamilton, Rutgers, Harvard, Princeton, New York, Bishop's (Canada), Delaware, Michigan and Georgetown Univs., Amherst, Bowdoin, Marietta, Middlebury and Williams Colls.); Legion of Merit. *Address:* 800 17th Street, N.W., Washington D.C. (Office); 2861 Woodland Drive, N.W., Washington D.C. 20008, U.S.A. (Home).

MARTIN-ARTAJO, Alberto; Spanish politician; b. 1905; ed. Univ. of Madrid; Pres. Catholic student del. to Paris 1932, to Washington 1939; chief editorial writer of El Debate and Ya; Foreign Minister 1945-57; Gen. Sec. Council of State 1957-; mem. Cortes, Royal Acad. of Politics. *Publications:* Doctrina Social-Católica, Como organizar el régimen corporativo en España, La misión social de la familia, según la doctrina pontificia, Hacia una Comunidad Hispánica de Naciones, Doctrina Politica de los Papas, La Conciencia Social de los Españoles. *Address:* Calle General Sanjurjo 34, piso 5°, Madrid 3, Spain.

MARTIN VILLA, Rodolfo; Spanish engineer, trade union official and politician; b. 3 Oct. 1934, Santa Maria del Páramo, León; ed. Escuela de Ingeniería Industrial, Madrid; Leader of Madrid Section, Sindicato Español Universitario, Nat. Leader 1962-64; Sec.-Gen. Syndical Org. 1969-74; mem. Council of the Realm; Nat. Econ. Adviser, Nat. Inst. of Industry; Nat. Econ. Adviser, Banco de Crédito Industrial, later Pres.; Civil Gov. of Barcelona and Provincial Head of Falangist Movement 1974-75; Minister for Relations with Trade Unions Dec. 1975-July 1976, of the Interior 1976-79; fmr. mem. special group of industrial engineers assisting Treasury. *Address:* Ministerio de Gobernacion, Amador de los Rios 7, Madrid, Spain.

MARTINEAU, Rt. Hon. Paul, P.C., Q.C.; Canadian lawyer and politician; b. 10 April 1921, Bryson, Quebec; s. of Alphonse Martineau and Lucienne Lemieux; m. Hélène Neclaw 1946; two d.; fmr. Crown Attorney for District of Pontiac, Quebec; M.P. 1958-65; Parl. Asst. to Prime Minister 1959-61; Deputy Speaker of House of Commons 1962-63; Minister of Mines and Technical Surveys 1962-63; mem. Royal Comm. on Admin. of Justice 1967; Progressive Conservative. *Leisure interests:* painting, writing, travelling, hiking. *Address:* Box 219, Campbell's Bay, Quebec, Canada.

MARTINELLI, Mario; Italian politician; b. 12 May 1906, Como; m. Francesca Vergottini 1929; three s. four d.; ed. commercial coll.; Commercial adviser; sometime Pres. Youth Fed., Diocese of Como; mem. PPI (People's Party) 1922-26; active resistance movement 1943-45; Sec. Como Christian Democrat Party 1945-46; Deputy (for Como-Sondrio-Varese) to Constituent Assembly, later Chamber of Deputies 1946-62; Senator 1963-; mem. Nat. Council of the Christian Democratic Party 1949-51, 1958-60, 1962-, of Cen. Cttee. 1950-51, 1965-; Under-Sec., Treasury 1951, Ministry of Foreign Trade 1953; Minister of Foreign Trade (Scelba Govt.) 1954-55; Pres. Transport Section of European Assembly 1958-, Finance and Treasury Cttee., Chamber of Deputies 1958-60; Minister of Foreign Trade 1960-62, of Finance 1963; Vice-Pres. Finance and Treasury Cttee., Senate 1964-68, Pres. 1968-72; Pres. Fiscal Reform Cttee. 1972; Chair. Senate Transport Comm. 1972-75; Minister of Transport 1974-76; mem. European Parl.; Vice-Pres. Cttee. on External Econ. Relations; Knight Grand Cross (Somalia), Elephant (1st Class, Afghanistan), Order Economie, Nat. Medal of Honor (France), Al Merito (Argentina), El Sol del Peru, San Gregorius Magnus (Vatican). *Address:* Via Dante 100, Como 22100, Italy.

MARTÍNEZ DE PERÓN, María Estela (Isabelita); Argentine dancer and politician; b. 6 Feb. 1931, La Rioja Province; m. Gen. Juan Domingo Perón (Pres. of Argentina 1946-55, 1973-74) 1961 (died 1974); Joined troupe of travelling folk dancers; danced in cabaret in several S. American countries; lived in Spain 1960-73; returned to Argentina with Juan Perón, became Vice-Pres. of Argentina 1973-74, Pres. 1974-76 (deposed by mil. coup). *Address:* San Miguel, Province of Buenos Aires, Argentina.

MARTÍNEZ ESTERUELAS, Cruz, LL.D.; Spanish politician and lawyer; b. 4 Feb. 1932, Barcelona; s. of Cruz and Presentación Martinez Esteruelas; m. Encarnación Oliveras y Gajo 1958; one s. two d.; ed. Deusto Univ., Bilbao and Univ. Complutense de Madrid. State attorney and Parl. Counsel; Dir.-Gen. Patrimonio del Estado, Ministry of Finance 1962-65; Chief Exec. Legal Advisory Board, Secr.-Gen. of the Movt. 1965-68; mem. Cortes 1968-; Minister of Devt. Planning July-Dec. 1973, of Educ. and Science 1973-75; Div. March Foundation 1970-73; Pres. Unión del Pueblo Español (UDPE); Gran Cruz de Carlos III, Grand Cross of Civil Merit, Order of Cisneros, and many other decorations. *Publications:* La Enemistad Politica 1971, Estudios de Sociologia Politica, Administración y economia en una nueva constitución de los EE.UU. 1973, Monarquia y cambio social 1974, Cartas para el humanismo social 1976. *Address:* Calle Alberto Aguilera 33, Madrid, Spain. *Telephone:* 2476297.

MARTÍNEZ ORDÓÑEZ, Roberto, B.S.; Honduran diplomatist; b. 18 Sept. 1922, Tegucigalpa; m.; three s. one d.; ed. Escuela José Trinidad Cabañas, Tegucigalpa, Instituto Nacional, Tegucigalpa, Escuela Militar, San Salvador and Univ. of Alabama; Gen. Staff Officer, 1941-43; Engineer, Inter-American Public Health Co-operative Service 1946-47; Chief Surface Engineer, Nueva York Honduras Rosario Mining Co. 1947-49; with Ministry of Communications and Public Works 1958-59; Del. to CACM 1959-60; Amb. to El Salvador 1959-60; Pres. Nat. Election Board of Honduras 1960-63; Rep. Nat. Constitutional Assembly 1965, Nat. Congress 1965-68; mem. Cen. Exec. Cttee. of Partido Liberal de Honduras 1965-67; Perm. Rep. to UN 1971-77; fmr. Pres. Nat. Electric Power Corpn.; Pres. Inst. Nacional de la Vivienda; mem. Board of Dirs., Banco Nacional de Fomento; Nat. Council; Pres. Ferrovia Nacional de Honduras. *Address:* c/o Ministerio de Relaciones Exteriores, Tegucigalpa, D.C., Honduras.

MARTÍNEZ ZUVIRÍA, Gen. Gustavo; Argentine army officer, diplomatist and historian; b. 28 Dec. 1915, Santa Fé; s. of Dr. Gustavo Martínez Zuviría and Matilde de Iriondo; m. María Eugenia Ferrer Deheza 1940; four s. four d.; ed. Colegio del Salvador, Buenos Aires, Mount St. Mary's Coll., England and Colegio Militar de San Martín; Teacher, Colegio Militar de la Nación; took part in unsuccessful coup d'état Sept. 1951; imprisoned 1951-53; Mil. Attaché, Peru 1955-57; Head, 3rd Cavalry Regt. 1957-58; Dir. Colegio Militar de la Nación, Escuela Superior de Guerra; Chief of Staff, Cavalry Corps; Insp. of Cavalry; Commdr. 2nd Div. of Cavalry 1964-65; Chief of Staff, 3rd Army 1966-70; Commdr. First Army Corps; Sec. for Information 1970; Amb. to U.K. 1970-73; Pres. Comm. of Cavalry in Argentine army; mem. Acad. Nacional, Sanmartiniana, Instituto Nacional, Ciencias Genealógicas; numerous awards from Argentina, Peru, Brazil, Chile, Federal Republic of Germany and the Polish Govt. in exile. *Publications:* numerous historical and military works. *Leisure interests:* reading riding, writing. *Address:* Avenida del Libertador 15249, Acassuso, Buenos Aires, Province, Argentina. *Telephone:* 743-5379/3960.

MARTINI, Fritz, DR. PHIL. HABIL.; German university professor; b. 5 Sept. 1909; ed. Univs. of Zürich, Graz, Heidelberg, Grenoble, Berlin; Extraordinary Prof. of Literary Science and Aesthetics, Tech. Univ., Stuttgart 1943-49, Ordinary Prof. 1949-75; [illegible] Presidium Deutsche Akad. für Sprache und Dichtung, Darmstadt. *Publications include:* Heinrich von Kleist und die geschichtliche Welt 1939, Deutsche Literaturgeschichte, Das Wagnis der Sprache, Was war Expressionismus?, D[illegible] Zeitalter des Realismus 1960. *Address:* Grüneisenstrasse 5, Stuttgart 7, Federal Republic of Germany.

MARTINI, Herbert, D.IUR.; German banker; b. 4 July 1903, Reichenbach; mem. Supervisory Board Reichs-Kredit-Gesellsch., Berlin; mem. Advisory Board Industriekreditbank, Düsseldorf. *Address:* Parkstrasse 40, 6242 Kronberg-Schönberg, Federal Republic of Germany. *Telephone:* 06173-1959.

MARTINKA, Karol, ING.; Czechoslovak economist and politician; b. 5 July 1923, Púchov; ed. Univ. of Econs., Bratislava; Deputy Chair. Slovak Planning Office, Bratislava 1956-63; Chair., Plan Coordination Group, Council of Mutual Econ. Assistance (CMEA) 1963-68; Minister of Finance, Slovak S.R. 1969; State Sec. Ministry of Planning of C.S.S.R. 1969-70; Minister without Portfolio, Fed. Govt. of C.S.S.R. 1970-71; Minister and Dep. Chair. State Planning Comm. 1971-72; Vice-Premier of Slovak Socialist Repub., Chair. Slovak Planning Comm. 1972-, Govt. Cttee. for Planned Man. of Nat. Econ. 1976; mem. Slovak C.P. Cen. Cttee. 1972-; Deputy to House of the People, Fed. Assembly 1973-76; Deputy Chair. Czechoslovak section of Intergovernmental Czechoslovak-Soviet Comm. for Econ. and Scientific Technological Co-operation 1974-; Deputy to Slovak Nat. Council Oct. 1976-; Order of Labour 1973. *Address:* c/o Slovak Planning Commission, Kýčerského 1, 881 22 Bratislava, Czechoslovakia.

MARTINO, Francesco de; Italian politician and university professor; b. 1907; Prof. of History, Univ. of Naples; fmr. Sec.-Gen. Partito Socialista Italiano (PSI); Deputy Prime Minister 1970-72; Presidential candidate Dec. 1971. *Address:* Via Aniello Falcone, 258 Naples, Italy.

MARTINS, Rudolf, LL.D.; Austrian diplomatist; b. 9 Feb. 1915, Zürich; s. of Martin and Carola (née Dobolschek) Martins; ed. Humanistisches Gymnasium (Vienna XIII), and Universität Wien; with Fed. Chamber of Commerce, Vienna 1946-47; Austrian Trade Commr. for Switzerland and Liechtenstein and Sec. of Austrian Chamber of Commerce for Switzerland, Zürich 1947-49; with Fed. Chamber of Commerce, Vienna 1949-59; Counsellor, Adviser [illegible] Multilateral Trade and Commerce, Ministry of Foreign Affairs 1959-63; Counsellor, Head of Dept. for Multilateral Trade and Commerce Questions, Ministry of Trade and Reconstruction 1963-65; Amb. and Perm. Austrian Rep. to Office of UN and UN Specialized Agencies, Geneva, and Leader of Austrian Del. to European Free Trade Assn. (EFTA) 1965-68, 1972-78; Envoy Extraordinary and Minister Plenipotentiary, Head of Dept. for Multi-lateral trade and Commerce Questions, Ministry of Foreign Affairs 1968-72; Goldenes Ehrenzeichen für Verdienste um die Republik Österreich. *Leisure interests:* music, linguistics. *Address:* Schloss Schönbrunn 39, A-1130 Vienna, Austria (Home).

MARTODIHARDJO, Lieut.-Gen. Sarbini; Indonesian army officer and politician; b. 10 June 1914; s. of M. Martoredjo; [illegible] Sockinah 1944; one s.; ed. Kebumen, Cen. Java; ed. elementary and secondary schools and various military schools and courses; fmr. public health service employee; subsequently served [illegible] commissioned officer in Indonesian army; Minister of Veteran Affairs and Demobilization 1964-66, 1966-68; Minister of Defence Feb.-March 1966, of Transmigration and Co-operatives 1968-71; mem. Supreme Advisory Council of Indonesia 1971-, now Vice-Chair.; Chair. Nat. H.Q. of Indonesian Scout Movt., Cen. Council H.Q. of Veterans Legion of Indonesia; Chair. Univ. of Islamic Devt. *Leisure interests:* hunting, bridge, table-tennis. *Address:* 17 Merdeka Utara, Jakarta (Office); Jalan Imam Bonjol 48, Jakarta, Indonesia (Home). *Telephone:* 52924 (Office); 45534 (Home).

MARTY, H.E. Cardinal François, D.THEOL.; French ecclesiastic; b. 18 May 1904; ed. Collège de Graves et de Villefranche de Rouergue (Aveyron), Grand Séminaire de Rodez (Aveyron) and Inst. Catholique de Toulouse; ordained 1930; Priest, Villefranche and Rodez 1932-40, Curé, Bournazel, Rieupeyroux and Millau 1940-51; Vicar-Gen., Rodez 1951-52; Bishop of Saint-Flour 1952; Archbishop of Reims 1960-68; Archbishop of Paris 1968-; cr. Cardinal March 1969; Président de la Conférence épiscopale de France May 1969-75; mem. of Conseil Permanent; Chevalier Légion d'honneur. *Address:* 32 rue Barbet de Jouy, 75007 Paris, France. *Telephone:* 555-26-00.

MARTYNENKO, Vladimir Nikiforovich; Soviet (Ukrainian) diplomatist; b. 6 Oct. 1923, Zhitomir, Ukrainian S.S.R.; m. Galina Gribovska 1951; one d.; ed. Kiev Univ.; Soviet Army 1941-46; Ukrainian Soc. for Friendship and Cultural Relations with Foreign Countries 1951-56; Ukraine Diplomatic Service 1956-; Embassy of U.S.S.R. to Canada 1965-68; Deputy Minister of Foreign Affairs of Ukraine 1968-73; Perm. Rep. to UN 1973-; Vice-Pres. ECOSOC 1978. *Address:* Permanent Mission of Ukrainian S.S.R. to United Nations, 136 East 67th Street, New York, N.Y. 10021, U.S.A.

MARTYNOV, Nikolay Vasiliyevich; Soviet politician; b. 1910; ed. Moscow Energy Inst.; Mem. CPSU 1932; Engineer 1934-41; Deputy Commissar for Munitions U.S.S.R. 1941-46; Deputy Minister then First Deputy Minister of Agricultural Machine Building, U.S.S.R. 1946-53; Dept. Head, Ministry of Automobile, Tractors, and Agricultural Machine Building 1954-55, Deputy Minister 1955-57; First Deputy Chair. Tashkent Nat. Econ. Council 1957-59, Chair. 1959-60; Chair. Uzbekistan Nat. Econ. Council 1960-63; Sec. Central Cttee. of CP of Uzbekistan 1963-65; First Deputy Chair. U.S.S.R. Council of Ministers State Cttee. for Material and Equipment Supplies 1965-76; Chair. State Cttee. for material and technical supply 1976-; Deputy to Supreme Soviet 1962-; Vice-Chair. U.S.S.R. Council of Ministers 1976-; mem. Comm. for Industry; various decorations. *Address:* U.S.S.R. Council of Ministers State Committee for Material and Equipment Supplies, 4 Dyakovsky Pereulok, Moscow, U.S.S.R.

MARUSI, Augustine Raymond; American food processing executive; b. 30 Nov. 1913, New York, N.Y.; s. of Dante K. and Victoria Sacchi Marusi; m. Ruth Sinclair Travis 1940; two s. one d.; ed. Rensselaer Polytechnic Inst.; Sales Engineer, Chemical Div. of Borden Co., N.Y.C. 1939-42, S. Regional Man. 1945-47, Dir., Gen. Man. Alba S.A., São Paulo, Brazil 1947-52, Vice-Pres. (Chem. Div.) 1952-54, Pres. Chem. Div. 1954-64, Vice-Pres. Borden Co. 1955-64, Exec. Vice-Pres. 1964-67, Pres. 1967-73, Chief Exec. Officer 1967- (name changed from The Borden Co. to Borden Inc. April 1968), Dir. 1959-, now also Chair.; official of other orgs. *Address:* Borden Inc., 277 Park Avenue, New York, N.Y. 10017, (Office); 562 Navesink River Road, Red Bank, N.J. 07701, U.S.A. (Home).

MARVEL, Carl Shipp, M.A. D.SC., PH.D.; American professor of organic chemistry; b. 11 Sept. 1894, Waynesville, Ill.; s. of John Marvel and Lucy Wasson; m. Alberta Hughes 1933; [illegible] s. [illegible] d.; ed. Illinois Wesleyan Univ., and Univ. of Illinois; Instructor Univ. of Illinois 1920, Assoc. 1921-23, Asst. Prof. 1923-27, Assoc. Prof. 1927-30, Prof. of Organic Chemistry 1930-53, Research Prof. 1953-61, Emeritus 1961-; Prof. of Chemistry, Arizona Univ. 1961-; Pres. American Chemical Society 1945; [illegible] of Board for the Coordination of Malarial Studies 1944-46, Nat. Advisory Health Council U.S. Public Health Service 1945-57, Nat. Acad. of Sciences 1938-, American Philosophical Society 1945-, American Academy of Arts and Sciences; [illegible] Materials Advisory Cttee. Nat. Research Council 1954-64, Chair. 1962-64, Advisory Board Macromolecules 1967-72; Chair. of the Comm. of Int. Union in dealing with Encyclopaedia Compendia 1947-50; Assoc. Editor Journal of the American Chemical Society 1943-52; mem. of Editorial Board Journal of Organic Chemistry 1936-56; Editor Vols. V and XI Organic Syntheses 1925 and 1931; Advisory Board Journal of Polymer Science 1951-; Hon. mem. Ill. State Acad. of Science 1977; Hon. D.Sc. Illinois Wesleyan Univ. 1946, Univ. of Illinois 1963; awarded Nichols Medal N.Y. Section American Chemical Society 1944, Willard Gibbs Medal, Chicago Section, American Chemical Society 1950, Gold Medal American Inst. of Chemists 1955, Priestley Medal, American Chemical Soc. 1956, Int. Award, Soc. of Plastic Engineers 1964, ACS Award in Polymer Chem. sponsored by WITCO Co. 1964, Perkin

Medal, American Section, Soc. of the Chemical Industry 1965, Madison Marshall Award, N. Ala. Sec. of ACS 1966, American Inst. of Chemists Inc. Chemical Pioneer Award 1967, and numerous other awards; Hon. Dr. (Louvain) 1970, John R. Kuebler Award, Alpha Chi Sigma Fraternity 1970, ACS Award in the Chem. of Plastics and Coatings, sponsored by Borden Foundation Inc. 1973, Alumni Achievement Award of Univ. of Ill. Alumni Assn. 1976. *Leisure interest:* bird watching. *Address:* Department of Chemistry, University of Arizona, Tucson, Arizona 85721 (Office); 2332 East 9th Street, Tucson, Arizona 85719, U.S.A. (Home). *Telephone:* (602) 626-1915 (Office); (602) 622-0762 (Home).

MARVIN, Lee; American actor; b. 19 Feb. 1924, New York; s. of Lamont W. and Courtenay D. Marvin; m. Betty Edeling 1952 (divorced 1967); m. 2nd., Pamela Feeley 1970; served in Second World War; made Broadway début in Billy Budd 1951; film début, same year, You're in the Navy Now; other films include, Duel at Silver Creek 1952, The Big Heat 1953, The Wild One 1954, Gorilla at Large 1954, The Caine Mutiny 1954, Bad Day at Black Rock 1954, Pete Kelly's Blues 1955, Raintree County 1957, The Missouri Traveller 1958, The Man Who Shot Liberty Valance 1962, Donovan's Reef 1963, The Killers 1964, Cat Ballou 1965, Ship of Fools 1965, The Professionals 1966, The Dirty Dozen 1967, Point Blank 1967, Paint Your Wagon 1967, Monte Walsh 1970, Prime Cut 1972, Emperor of the North 1973, The Iceman Cometh 1973, Cathouse Thursday 1976, Shout at the Devil 1976; television appearances include, M. Squad 1958-60, Man in Orbit, The Lawbreaker 1964; Acad. Award for Best Actor, Berlin Film Fest. Award for Cat Ballou 1965; British Acad. Award for Best Foreign Actor 1965. *Address:* Mishkin Agency Incorporated, 9255 Sunset Boulevard, Los Angeles, Calif. 90069, U.S.A.

MASAMUNE, Isao, B.ECON., Japanese banker; b. 30 March 1912, Tokyo; s. of Tokusaburo and Chiyoko Masamune; m. Yorie Ogimoto 1943; two s. two d.; ed. Tokyo Univ.; joined Industrial Bank of Japan Ltd. 1933, Dir. 1957, Man. Dir. 1959, Deputy Pres. 1964, Pres. 1968, Chair. 1975-. *Leisure interests:* golf, go. *Address:* 3-3, Marunouchi 1-chome, Chiyoda-ku, Tokyo (Office); 2-21-5 Uehara, Shibuya-ku, Tokyo, Japan (Home). *Telephone:* 214-1111 (Office); 467-1843 (Home).

MASANI, Minoo; Indian politician, publicist and business consultant; b. 20 Nov. 1905, Bombay; s. of Sir Rustom and Lady Manijeh Masani; ed. Elphinstone Coll., Bombay, and London School of Economics; Barrister of Lincoln's Inn; founder and Joint Sec., Congress Socialist Party 1934-39; mem. Bombay Municipal Corpn. 1935-45, Mayor 1943-44; mem. Indian Legis. Assembly 1945-47, Constituent Assembly of India 1947-48; Amb. to Brazil 1948-49; mem. Lok Sabha (lower house of Parl.) 1949-52, 1957-62, 1963-71; Chair. Public Accounts Cttee. 1967-69, Minorities Comm. 1978, Chair. UN Sub-Comm. on Discrimination and Minorities 1950-52; Gen. Sec., Swatantra Party 1960-67, Pres. 1970-71, Patron, Liberal Int.; Proprietor, Personnel and Productivity Services Ltd., Man. Consultants 1957-; Editor Freedom First. *Publications:* Our India, Socialism Reconsidered, Your Food, Picture of a Plan, Plea for the Mixed Economy, Our Growing Human Family, Communist Party of India—a Short History, Congress Misrule and the Swatantra Alternative, J.P.; Mission Partly Accomplished, Bliss Was it In That Dawn. *Leisure interests:* reading and writing. *Address:* Personnel and Productivity Services, 148 Mahatma Gandhi Road, Bombay 400 023 (Office); Breach Candy House, Bhulabhai Desai Road, Bombay 400 026, India (Home). *Telephone:* 254171.

MASCHERINI, Marcello; Italian artist; b. 1906; ed. Trieste Industrial Inst.; sculptor in stone, wood and bronze; designer of theatrical décors and costumes, Teatro del l'Opera, Rome (Tantologos 1969, Don Giovanni 1970); has also executed lithographs and decorative works for the Milan Triennale and Italian liners, decorations of Padua and Trieste Univs.; first exhibited 1925, since exhibited in Italy and abroad; teacher of bronze sculpture at Int. Sommerakademie für bildende Kunst, Salzburg 1970, 1971; mem. Accademia Nazionale di San Luca, Rome, Académie Royale, Brussels; Second Prize for Sculpture, Biennale of São Paulo do Brasil 1954; First Prize, Int. Exhbn. of Carrara 1957; Gold Medal for Sculpture, Exposition Universelle de Bruxelles 1958; Prize for Sculpture, Venice Biennale 1960. *Address:* Trieste, Italy.

MASEFIELD, Sir Peter Gordon, Kt., M.A., C.ENG., F.R.Ae.S., F.C.INST.T.; British engineer and administrator; b. 19 March 1914, Trentham, Staffordshire; s. of late Dr. W. Gordon Masefield, C.B.E., M.R.C.S., L.R.C.P. and Marian Ada Lloyd-Owen; m. Patricia Doreen Rooney 1936; three s. one d.; ed. Westminster School, Chillon Coll., Switzerland and Jesus Coll., Cambridge. On Design Staff, Fairey Aviation Co. Ltd. 1935-37; Asst. Technical Editor The Aeroplane 1937-39, Technical Editor 1939-43; war corresp. and air corresp. The Sunday Times 1940-43; Personal Adviser on Civil Air Transport to Lord Privy Seal and Sec. of Civil Aviation Cttee. of War Cabinet 1943-45; British Civil Air Attaché, British Embassy, Washington, D.C. 1945-46; Dir.-Gen. of Long-Term Planning and Projects, Ministry of Civil Aviation 1947-48; Chief Exec. and mem. of Board British European Airways 1949-56; Man. Dir. Bristol Aircraft Ltd. 1956-60, British Executive and General Aviation Ltd., Beagle Aircraft Ltd. 1960-67 (Chair. 1968-); Dir. Pressed Steel Co. Ltd. 1960-67; Pres. Inst. of Transport 1955-56; mem. Aeronautical Research Council 1956-60, Pres. Royal Aeronautical Soc. 1959-60; Chair. Air Transport Section, London Chamber of Commerce 1962-65; Chair. British Airports Authority 1965-71; Chair. Royal Aero Club of the U.K. 1968-70; Vice-Chair. United Service and Royal Aero Club 1970-71; Chair. Imperial War Museum 1977-78; Chair. Project Management Ltd. 1972-; Pres. Nigerian-British Chamber of Commerce 1977-; Dir. Nationwide Building Soc. 1973-, London Transport Exec. 1973-, Worldwide Estates Ltd., Worldwide Properties Ltd. Deputy Chair. Caledonian Airways Ltd.; Chair. Royal Soc. of Arts 1977-79; mem. CAA Flight Time Limitations Board, Board of London Transport Exec.; Hon. Fellow, Inst. Aeronautics and Astronautics (U.S.A.), Canadian Aeronautics and Space Inst. Hon. D.Sc. (Cranfield), D.Tech. (Loughborough). *Leisure interests:* reading, writing, gardening, photography, flying. *Address:* Rosehill, Doods Way, Reigate, Surrey, England. *Telephone:* Reigate 42396.

'MASERIBANE, Chief Sekhonyana Nehemia; Lesotho Chief; b. 4 May 1918; ed. Eagles Park Coll., Basutoland. Prominent Trader in Quthing District; descendant of First Paramount Chief of Basutoland, Chief Moshoeshoe I, Chief of Mount Moorosi; mem. Econ. Planning Council of Basutoland; Pres. Basuto Courts 1947, and Assessor to Basutoland High Court; mem. Econ. Mission to U.S.A. 1962; Prime Minister of Basutoland May-July 1965, Deputy Prime Minister and Minister of Internal and External Affairs, and Leader of the House July 1965-Jan. 1966; Minister of Internal Security and Home Affairs 1966-70; Deputy Prime Minister 1968-76; Minister of Agriculture 1970-74, of Posts and Telecommunications 1974-75, of Works 1974-76; Vice-Pres. Nat. Party. *Address:* c/o Ministry of Works, Posts and Telecommunications, Maseru, Lesotho.

MASHEROV, Pyotr Mironovich; Soviet politician; b. 26 Feb. 1918; ed. Vityebsk Pedagogical Institute; Mem. CPSU 1943-; Partisan Movement, Byelorussia, Second World War; Komsomol work 1944-54; Second Sec., Minsk Regional Cttee., CP Byelorussia 1954-55; First Sec., Brest Regional Cttee., CP Byelorussia 1955-59; Sec., Second Sec., Central Cttee. CP Byelorussia 1959-65; FIrst Sec., Central Cttee. CP Byelorussia 1965-; Cand. mem. Cen. Cttee. CPSU 1961-64, mem. 1964-, mem. Presidium of Supreme Soviet 1966-; Cand. mem. Politburo 1966-; Deputy to the Supreme Soviet of the U.S.S.R. 1950-62, 1966-; Hero of the Soviet Union, Hero of Socialist Labour; Order of Lenin (seven), Gold Star Medal and other decorations. *Address:* Central Committee of the Communist Party of Byelorussia, Minsk, U.S.S.R.

MASHHOUR, Mashhour Ahmed; Egyptian engineer and company executive; b. April 1918; m.; one s. two d.; ed. Faculty of Eng., Cairo Univ., Staff Officers' Coll.; Ministry of Transport 1941; Army Eng. 1942; eng. studies in Corps of Engs., British Army 1943-44; tech. studies in Corps of Engs., U.S. Army; Lecturer, U.A.R. Acad. of War 1948-52; Officer, Corps of Engs., Egyptian Army; Dir. of Transit, Suez Canal Authority 1956; Del. Chair. of Canaltex Co. and mem. Board of Dirs. of Timsah Ship Building Co., Ismailia; Chair. and Man. Dir. Suez Canal Authority 1965-; Sec.-Gen. of Arab Socialist Union, Governorate of Ismailia 1965-71; mem. People's Assembly 1976-; mem. Nat. Council of Production; Repub. Medal (1st Class); Mil. Service Medal (1st Class); Liberation Medal; Palestine Medal; Order of Merit (1st Class); Commdr. Légion d'honneur; Order of Polonia Restituta; Mono-Grand Officier (Togo). *Address:* Suez Canal Authority, Ismailia, Egypt. *Telephone:* Ismailia 2201.

MASHOLOGU, Mothusi Thamsanga; Lesotho diplomatist; b. 7 March 1939, Morija; s. of Bennie and Sarah Mashologu; m. Debrah Mashologu (née Mokhitli) 1968; one s. two d.; ed. Univ. Coll. of Fort Hare, S. Africa, Univ. of Rhodesia and Nyasaland, Queens Univ., Belfast, and London School of Economics; Teacher at Basutoland Training Coll. and at Basutoland High School 1960-64; Asst. Sec., Ministry of External Affairs and Asst. Sec. in Cabinet Office 1965-66; Counsellor, Perm. Mission of Lesotho to UN 1966-68; Principal Asst. Sec. and Acting Perm. Sec., Ministry of Foreign Affairs 1968-69; Amb. to U.S.A. 1969-73, also Perm. Rep. to UN 1969-71; Sec. to Cabinet 1974-75; Pro-Vice-Chancellor, Nat. Univ. of Lesotho Oct. 1975-76, Vice-Chancellor 1976-. *Address:* National University of Lesotho, Roma, Lesotho. *Telephone:* Roma 269.

MASINA, Giulietta; Italian actress; b. 22 Feb. 1921; m. Federico Fellini (*q.v.*); ed. Univ. of Rome; began acting career in radio plays; in films since 1941. *Films:* Senza Pietà 1947, Luci del Varietà 1948, Persiane Chiuse, Cameriera Bella Presenza Offresi . . ., Europa 1951, Wanda la Peccatrice, Lo Sceicco Bianco 1952, Sette Ore di Guai, Il Romanzo della mia Vita, Ai Margini della Metropoli, Donne Proibite, Via Padova 1946, Cento Anni d'Amore, La Strada 1954, Il Bidone 1955, Buonanotte Avvocato!, Le Notte di Cabiria 1957, Fortunella 1958, Nella Citta l'Inferno 1959, Giulietta degli spiriti 1965, The Mad woman of Chaillot 1969. *Address:* Via Archimede 141a, Rome, Italy.

MASIRE, Dr. Quet Ketumile Jonny, J.P.; Botswana politician; b. 23 July 1925; ed. Kanye and Tiger Kloof; founded Seepapitso Secondary School 1950; reporter, later dir., African Echo 1958; mem. Bangwaketse Tribal Council, Legislative Council; fmr. mem. Exec. Council; founder mem. Botswana Democratic Party (BDP), Sec.-Gen. and Editor of party newspaper Therisanyo; mem. Legislative (now Nat.) Assembly March 1965; Deputy Prime Minister 1965-66; attended Ind. Conf., London Feb. 1966; Vice-Pres. and Minister of Finance 1966-78, and of Devt. Planning 1967-78. *Address:* Office of the Vice-President, Gaborone, Botswana.

MASMOUDI, Mohamed; Tunisian politician; b. 29 May 1925, Mahdia; s. of Mohamed and Amna (née Bennour) Masmoudi; m. Alya Boulakbèche 1956; seven c.; ed. Tunis and Univ. of Paris; Mem. of Tunisian Nationalist Movement 1934; Minister of State in Govt. negotiating Tunisian independence 1953-55; Minister of the Economy 1955-56; Amb. to France 1956-58, 1965-68; Minister of Information 1958-61; Sec.-Gen. Destour Socialist Party 1969-74; Minister of Foreign Affairs 1970-74; assoc. with Action, later renamed Afrique Action; in exile 1974-77. *Leisure interests:* literature, antiques, chess. *Address:* La Manouba, Tunis, Tunisia.

MASON, Arthur Malcolm; British business executive; b. 19 Dec. 1915; s. of Mr. and Mrs. Charles Mason; m. Mary Hall 1938; one s. one d. (deceased); ed. Blundells School, Tiverton; Dir., Chiswick Products Ltd. (now Reckitt and Colman Products Ltd.), Chair. 1958-67; Dir. Reckitt and Colman Ltd. 1958-79, Chair. 1970-77, non-exec. Dir. 1977-79. *Leisure interests:* motoring, sailing. *Address:* Reckitt and Colman Ltd., P.O. Box 26, Burlington Lane, London, W4 (Office); 7 Pinecroft, St. George's Road, Weybridge, Surrey, KT13 0EN, England (Home). *Telephone:* 01-994 6464; Weybridge 48690.

MASON, Sir Basil John, Kt., C.B., D.SC., F.R.S.; British meteorologist; b. 18 Aug. 1923, Docking, Norfolk; s. of late John Robert and Olive Mason; m. Doreen Sheila Jones 1948; two s.; ed. Fakenham Grammar School and Univ. Coll., Nottingham; Commissioned, Radar Branch, R.A.F. 1944-46; Shirley Research Fellow, Univ. of Nottingham 1947; Asst. Lecturer in Meteorology, Imperial Coll., London 1948-49, Lecturer 1949; Warren Research Fellow, Royal Soc. 1957; Visiting Prof. of Meteorology, Univ. of Calif. 1959-60; Prof. of Cloud Physics, Imperial Coll. of Science and Technology, Univ. of London 1961-65; Pro-Chancellor Univ. of Surrey (Sept. 1979-); Dir.-Gen. Meteorological Office 1965-, Pres. Royal Meteorological Soc. 1968-70; mem. Exec. Cttee. World Meteorological Org. 1965-75, 1977-; Chair. Council, Univ. of Surrey 1971-75; Pres. Inst. of Physics 1976-78; Treas. and Senior Vice-Pres. Royal Soc. 1976-; Dir. Fulmer Research Inst 1976-78; Hon. D.Sc. (Nottingham 1966, Durham 1970); Hon. Fellow Imperial Coll. of Science and Technology 1974; Hon. D.Sc. (Strathclyde) 1975; Hugh Robert Mill Medal, Royal Meteorological Soc. 1959; Charles Chree Medal and Prize, Physical Soc. 1965; Bakerian Lecture, Royal Soc. 1971; Halley Lecture, Oxford Univ. 1977; Rumford Medal, Royal Soc. 1972; Glazebrook Medal and Prize, Inst. of Physics 1974; Symons Memorial Gold Medal, Royal Meteorological Soc. 1975; Naylor Prize and Lectureship 1979. *Publications:* The Physics of Clouds 1957, 2nd edition 1971, Clouds, Rain and Rain-making 1962 (2nd edn. 1975). *Leisure interests:* music, foreign travel. *Address:* The Meteorological Office, London Road, Bracknell, Berks (Office); 64 Christchurch Road, East Sheen, London, S.W.14, England (Home). *Telephone:* Bracknell 20242 (Office); 876-2557 (Home).

MASON, Birny, Jr., B.CHEM.; American chemical engineer and executive; b. 27 Feb. 1909, Brownsville, Pa.; s. of Birny and Mary Carmack Mason; m. Elisabeth Brownson Smith 1935; one s.; ed. Cornell Univ.; joined Union Carbide Corpn. 1932, Man. Industrial Relations staff 1952-55, Sec. 1955, Pres. Union Carbide Development Co. 1956; Vice-Pres. Union Carbide Corpn. and mem. Appropriations Cttee. 1957-58, Exec. Vice-Pres. 1958-60, Dir. 1958-, Pres. 1960-66, Chair. 1966-71, Chair. Exec. Cttee. 1971-74; Dir. Metropolitan Life Insurance Co., New York; Trustee, Nat. Safety Council; mem. American Inst. of Chemical Engineers. *Leisure interests:* golf, sailing. *Address:* Union Carbide Corporation, 270 Park Avenue, New York, N.Y. 10017, U.S.A. (Office).

MASON, Sir Frederick Cecil, K.C.V.O. C.M.G.; British diplomatist (retd.); b. 15 May 1913, London; s. of late Ernest Mason and late Sophia Charlotte Dodson; m. Karen Rørholm 1941; two s. one d.; ed. City of London School and St. Catharine's Coll., Cambridge; Vice-Consul, Antwerp 1935-36, Paris 1936-37, Léopoldville 1937-39; Consul Faroe Islands 1940-42, Colón, Panama 1942-45; First Sec., British Embassy, Santiago, Chile 1946-48; Press Attaché, Oslo 1948-50; Asst. Labour Adviser, Foreign Office 1950-53; First Sec., U.K. High Comm., Bonn 1953-55; Commercial Counsellor, Athens 1955-57; Econ. Counsellor, Teheran 1957-60; Head, Econ. Relations Dept., Foreign Office 1960-64; Under-Sec. Ministry of Overseas Devt. 1964-65, Commonwealth Office 1966; Amb. to Chile 1966-70; Under-Sec. Foreign and Commonwealth Office 1970-71; Amb. and Perm. Rep. UN, Geneva 1971-73; U.K. mem. Int. Narcotics Control Board, Geneva 1974-77; Dir. New Court Natural Resources Ltd. 1973-; Grand Cross, Chilean Order of Merit "Bernardo O'Higgins". *Leisure interests:* walking, ball games. *Address:* The Forge, Ropley, Hampshire, England

MASON, James Neville, M.A.; British actor; b. 15 May 1909, Huddersfield, Yorks.; s. of John Mason and Mabel Gaunt; m. 1st Pamela Kellino 1941 (dissolved 1964), one s. one d.; m. 2nd Clarissa Kaye 1971; ed. Marlborough Coll., and Peterhouse, Cambridge; Acted in England 1931-46; resident in U.S.A. 1946-62, in Switzerland 1962-; notable films include I Met a Murderer 1939, The Man in Grey 1943, The Seventh Veil 1945, Odd Man Out 1946, Rommel—Desert Fox 1951, Five Fingers 1952, Julius Caesar 1953, A Star is Born 1954, Bigger than Life 1956, A Touch of Larceny 1960, Lolita 1962, Tiara Tahiti 1962, The Pumpkin Eater 1964, Lord Jim 1965, Les Pianos Mécaniques 1965, Georgy Girl 1966, The Deadly Affair 1967, The Seagull 1969, Age of Consent 1969, Spring and Port Wine 1970, Child's Play 1972, The Last of Sheila 1973, Dr. Frankenstein 1973, Mackintosh Man 1973, 11 Harrowhouse 1974, Marseille Contract 1974, Mandingo 1975, Autobiography of a Princess 1975, The Voyage 1976, Cross of Iron 1976, Fear in the City 1976, The Water Babies 1976, Jesus of Nazareth 1976, Heaven Can Wait 1977, The Boys from Brazil 1977, The Passage 1978, Murder By Decree 1978, Bloodline 1978; stage appearances include Faith Healer (on Broadway) 1979. Publ. (with Pamela Kellino) The Cats in Our Lives 1949. *Address:* c/o Al Parker, 55 Park Lane, London, W.1, England. *Telephone:* 01-499-3080.

MASON, L. Ralph; American motor executive; b. 31 Oct. 1910, Lynchburg, Va.; ed. Virginia Polytechnical Inst., Blacksburg; assoc. with Gen. Motors 1935-; with Chevrolet Div. of Gen. Motors 1935-66; Man. Dir. Adam Opel A.G., Fed. Repub. of Germany 1966-70; Gen. Dir. European Operations, Gen. Motors Overseas Corpn. 1970-74; Special Asst. to Gen. Man., N.Y. Div. Feb. 1974-. *Address:* c/o General Motors Overseas Corporation, 767 Fifth Avenue, New York, N.Y. 10022, U.S.A. *Telephone:* 212 486-5000.

MASON, Philip, C.I.E., O.B.E.; British writer and administrator; b. 19 March 1906, London; s. of Dr. H. A. Mason; m. Eileen Mary Hayes 1935; two s. two d.; ed. Sedbergh, Oxford Univ.; Mem. Indian Civil Service 1928-47; Under-Sec., War Dept. 1933-36; Deputy Commr., Garhwal 1936-39; Deputy Sec., Defence Co-ordination and War Depts. 1939-42; Sec., Chiefs of Staff Cttee., India, and Head of Conf. Secretariat, S.E. Asia Command 1942-44; represented War Dept., Cen. Assembly 1946; Joint Sec., War Dept. 1944-47; Dir. of Studies in Race Relations, Chatham House, London 1952-58, Dir. Inst. of Race Relations, London 1958-69; Chair. Nat. Cttee. for Commonwealth Immigrants 1964-65, BBC Advisory Council for Immigrants 1965-74; Exec. U.K. Council for Overseas Student Affairs 1969-75; Hon. Fellow, School of Oriental and African Studies, Univ. of London 1970; Hon. D.Sc. (Soc.) (Bristol) 1971, D.Litt. (Oxon.) 1972. *Publications* (as Philip Woodruff): Call the Next Witness 1945, The Wild Sweet Witch 1947, Whatever Dies 1948, The Sword of Northumbria 1948, The Island of Chamba 1950, Hernshaw Castle 1950, Colonel of Dragoons 1951, The Men Who Ruled India: Vol. I The Founders 1953, Vol. II The Guardians 1954; (as Philip Mason): An Essay on Racial Tension 1954, Christianity and Race 1956, The Birth of a Dilemma 1958, Year of Decision 1960, Common Sense about Race 1961, Prospero's Magic 1963, Patterns of Dominance 1970, Race Relations 1970, How People Differ 1971, A Matter of Honour 1974, Kipling—The Glass, The Shadow and The Fire 1975, The Dove in Harness 1976, A Shaft of Sunlight 1978, Skinner of Skinner's Horse 1979. *Leisure interests:* reading, gardening. *Address:* Hither Daggons, Cripplestyle, Alderholt, Nr. Fordingbridge, Hants., England. *Telephone:* Cranborne 318.

MASON, Rt. Hon. Roy, P.C., M.P.; British politician; b. 18 April 1924, Barnsley, Yorks; s. of Joseph and Mary Mason; m. Marjorie Sowden 1945; two d.; ed. Carlton Junior School, Royston Senior School, and London School of Economics (T.U.C. Course); branch

official, Nat. Union of Mineworkers 1947-53; mem. Yorkshire Miners' Council 1949-53; M.P. for Barnsley 1953-; Minister of State (Shipping), Board of Trade 1964-67; Minister of Defence (Equipment) 1967-68; Postmaster-Gen. April-June 1968; Minister of Power 1968-69; Pres. Board of Trade 1969-70; Sec. of State for Defence 1974-76, for Northern Ireland 1976-79; Opposition Spokesman for N . Ireland June 1979-; Labour. *Address:* House of Commons, London, S.W.1. England.

MASSAD, A. Carlos; Chilean international finance official; b. 29 Aug. 1932, Santiago; m.; five c.; ed. Univ. de Chile and Chicago Univ. Research Asst. Inst. of Econs., Univ. de Chile 1943-53. Head of Research 1954-55, Asst. Dir. 1956, Dir. a.i. 1961, Dir. 1962-64; Prof. of Monetary and Banking Theory and Policy, Univ. de Chile 1963-; Chair. Comm. for Reform of Univ. Técnica Federico Santa María 1968; mem. Nat. Scientific Comm. 1968; Chair. Board of Govs., Centre for Latin American Monetary Studies 1968-70; mem. Exec. Board, Latin American Social Sciences Council 1967-70; Vice-Chair. Chilean Planning and Devt. Assn. 1968-70; Gov. IMF and IBRD 1965-70; Vice-Pres. Banco Central de Chile 1964-67, Pres. 1967-70; Exec. Dir. IMF 1970-75. *Address:* c/o Ministerio de Finanzas, Santiago, Chile.

MASSART, Edward Marie Lucien; Belgian biochemist and university professor; b. 1908; ed. Royal Atheneum, Antwerp, and Univ. of Brussels. Asst. and first Asst. Prof. of Biochemistry, State Univ. of Ghent, and Prof. 1934-; Vice-Pres. Ghent Univ. 1961-62; Dir. Biochemical Laboratory of the Faculty of Sciences and of the Veterinary Coll., Ghent Univ. 1958; Pres. Nat. Council on Scientific Politics 1959; mem. Royal Flemish Acad. of Medicine of Belgium; Francqui Award in Natural Science 1957, etc. *Address:* Rysschenbergstraat 46B, Ghent, Belgium.

MASSÉ, Pierre, DR. ÈS SC.; French engineer; b. 13 Jan. 1898; ed. Ecole Polytechnique; began career as electrical engineer 1928; Dir. (Electrical Equipment) Electricité de France 1946, Dept. Dir. Gen. 1948; Commr. Gen. du Plan d'Equipement et de la Productivité 1959-65; Pres. Electricité de France 1965-69, Hon. Pres. 1969-; Assoc. Prof., Univ. of Paris; Pres. Admin. Council, Fondation de France 1969-73; Foreign Hon. mem. American Acad. of Arts and Sciences 1968; Grand Officier Légion d'honneur; Croix de guerre. *Publications:* Les Réserves et la Régulation de l'Avenir 1946, Le Choix des Investissements 1959 (English edn. 1962), Le Plan ou l'Anti-hasard 1965, Les Dividendes du progrès (co-author) 1969, La Crise de développement 1973. *Address:* 33 avenue du Maréchal-Lyautey, Paris 16e, France.

MASSEVITCH, Alla Genrikhovna, D.SC.; Soviet astronomer; b. 9 Oct. 1918, Tbilisi; d. of Henrik Massevitch and Natalie Zhgendi; m. Joseph Friedlander 1942, one d.; ed. Moscow Industrial Pedagogical Inst., Moscow Univ. Assistant Prof. of Astrophysics Moscow Univ. 1946-48, Prof. 1948-; Vice-Pres. Astronomical Council, Soviet Acad. of Sciences 1952-; in charge of visual tracking of Soviet space vehicles; Chair. Working Group I, Cttee. for Space Research (COSPAR) 1961-66; Vice-Pres. Comm. 1944 JAU (Extraterrestrial Astronomy) 1961-67; Pres. Comm. 1935 JAU (Internal Structure of Stars) 1967-70; Vice-Pres. Inst. for Soviet-Amer. Relations 1967; Vice-Pres. Board. Soviet Peace Cttee. 1967; Foreign mem. Royal Astronomical Soc. 1963; mem. Int. Acad. of Astronautics 1964; U.S.S.R. State Prize 1975. *Publications:* 111 papers on internal structure of stars, stellar evolution and optical tracking of satellites, mainly in Astronomical Journal of the U.S.S.R., Publications of the Sternberg Astronomical Institute and Scientific Information of the Astronomical Council 1945-. *Address:* Astronomical Council of the U.S.S.R. Acad. of Sciences, 48 Pjatnitskaja Street, Moscow; 1 Vosstania Square 403, Moscow, U.S.S.R. *Telephone:* 231-5461.

MASSEY, Sir Harrie Stewart Wilson, Kt., M.SC., PH.D., F.R.S.; British physicist; b. 1908; ed. Melbourne Univ. Aitchison Travelling Scholar Melbourne Univ. 1929-31; research in atomic physics, Cavendish Laboratory, Cambridge 1929-33; Independent Lecturer in Mathematical Physics, Queen's Univ., Belfast 1933-38; Goldsmid Prof. of Mathematics, Univ. Coll., Univ. of London 1939-50; Quain Prof. of Physics, Univ. Coll. 1950-75, Emer. Prof. of Physics, Univ. of London 1975-; Vice-Dean of Faculty of Science Oct. 1947-50; Chair. Atomic Scientists' Assn. 1946, Vice-Pres. 1947-53, Pres. 1953-57; [illegible] Radio Research Board 1946-50, 1956-60; Scientific Advisory Panel, British Council 1947-57; mem. Meteorological Research Cttee. 1955-60; Vice-Pres. Royal Astronomical Soc. 1950-52; Council Royal Soc. 1950-52, 1959-60; Council Physical Soc. (London) 1949-54, Pres. 1954-56; Hughes Medallist, Royal Soc. 1955, Royal Medallist 1958; Pres. European Space Research Org. 1959-64; Chair. British Nat. Cttee. for Space Research, Council for Scientific Policy 1965-70; mem. Gov. Body, Rugby School 1954-59, Chelsea Polytechnic 1956-59, Nat. Inst. for Research in Nuclear Science 1957-65, Advisory Council of Science Museum 1959-61, Steering Group for Space Research 1959-63, Bureau of Int. Cttee. on Space Research 1959-, Cen. Advisory Council for Science and Technology 1967-70, Physical Sec. and Vice-Pres. 1969-; Vice-Pres. Royal Soc. 1969-; Vice-Provost Univ. Coll., London 1969-73; Chair. Prov. Space Science Advisory Board for Europe 1974-; mem. Royal Comm. for Exhibition of 1851 1972-, Anglo-Australian Telescope Board 1975-, American Philosophical Soc. 1975-; corresp. mem. Acad. of Sciences Liège 1974-, Australian Acad. of Sciences 1976-; Hon. Res. Fellow, Dept. of Physics and Astronomy, Univ. Coll. London 1975; Hon. Fellow Univ. Coll. London 1976, Inst. of Physics 1976; Assessor Science Research Council 1974-; Hon. D.Sc. (Belfast and Leicester) 1964, (Hull) 1968, (London, Ontario) 1970, (Melbourne, Adelaide, Heriot-Watt, Liver[illegible]l) 1975; Hon. LL.D. (Glasgow) 1962. *Publications:* The Theory of Atomic Collisions (with N. F. Mott) 1933 (3rd edn. 1965), Negative Ions 1938 (2nd edn. 1949), Electronic and Ionic Impact Phenomena (with E. H. S. Burhop) 1951 (2nd edn. vols. I and II 1969, vol. III 1971, vols. IV and V 1974), Atoms and Energy 1952, The Upper Atmosphere (with R. L. F. Boyd) 1958, Ancillary Mathematics (with H. Kestleman) 1958 (2nd edn. 1964), The New Age in Physics 1960 (2nd edn. 1966), Space Physics 1964. *Address:* Department of Physics and Astronomy, University College, Gower Street, London, WC1E 6BT (Office); Kalamunda, Pelhams Walk, Esher, Surrey, England. (Home). *Telephone:* 01-387 7050 (Office).

MASSIGLI, René; French diplomatist (retd.); b. 22 March 1888; ed. Ecole Normale Supérieure. Mem. Ecole Française de Rome 1910-13; Lecturer, Lille Univ.1913-14; Sec. Conf. of Ambassadors 1920; Asst. Sec. French Delegation to Washington 1921; Sec. of Delegation to Genoa 1921; Sec. Lausanne Conf. 1922-23; mem. Council of State 1924-28; Chief of L. N. Section, Ministry of Foreign Affairs 1928-33; mem. French Delegation to Naval Conf., London 1930; fmr. Deputy-Del. to Disarmament Conf. 1932; Asst. Dir. of Political Section at Ministry of Foreign Affairs 1933-37, Dir. 1937-38; Amb. to Turkey 1938-40; arrived London, joined de Gaulle 1943, Nat. Commr. for Foreign Affairs 1943; Commr. for Foreign Affairs, French Cttee. for Nat. Liberation 1943-44, mem. Advisory Council on Italy 1943-44; Amb. to Great Britain 1944-55; Sec.-Gen. Ministry of Foreign Affairs 1955-56; Pres. French Channel Tunnel Study Groups 1957-70; Grand Cross, Légion d'honneur; Hon. G.C.V.O., C.H., K.B.E. *Publications:* Sur quelques maladies de l'etat 1958, la Turquie devant la guerre 1964, Une Comedie des erreurs 1943-1956, 1978. *Address:* 3 Avenue Robert-Schuman, Paris 7e, France.

MASSIP, Roger; French journalist; b. 6 Nov. 1904, Montauban; s. of Jean Massip; m. Renée Massip 1930; ed. Univ. of Paris. Corresp. Agence Havas Bucharest 1931-34, Le Petit Parisien Warsaw 1934-37, Asst. Foreign Editor of latter 1937-40; Editor underground newspaper Libération 1942-44, Asst. Editor Libération 1944-47; Foreign Editor Le Figaro 1947-75, leader writer 1975-; Sec.-Gen. Assn. for Study of Problems of Europe 1976-; Officier Légion d'honneur, Officier de la Résistance, Hon. C.B.E. *Publications:* Que sera la nouvelle société des Nations? 1945, Voici l'Europe 1958, De Gaulle et l'Europe 1963, La Chine est un miracle 1973. *Address:* c/o Figaro, 37 rue du Louvre, Paris 2e, France.

MASSON, André; French artist; b. 4 Jan. 1896; ed. Académie Royale des Beaux-Arts, Brussels, and Ecole des Beaux-Arts, Paris; fmr. mem. Cubist and Surrealist groups, Paris; illustrated many books; ballet sets Les Présages 1933; U.S.A. 1941-45; settled Aix-en-Provence 1947; retrospective exhibitions Paris, London, New York, Hanover, Zurich, etc.; rep. at Dunn Int. Exhbn., London 1963; commissioned to paint ceiling of Théâtre de France 1965; took part in Surrealist exhbn., New York 1968; represented in principal galleries of contemporary art in Europe and America; Officier Légion d'honneur, Commdr. des Arts et des Lettres; Grand Prix national des Arts 1954, São Paulo Biennale Prize 1963. *Publications:* Anatomie de mon Univers 1942, La Pieuvre 1944, La Rencontre de la Chimére 1944, Mémorandum 1936-45, Bestiaire 1945, Métamorphoses 1946, La Mémoire du monde 74, Le Vagabond du Surréalisme 1975, etc. *Address:* 26 rue de Sévigné, 75004 Paris, France.

MASSON, Marcel; French painter; b. 25 June 1911, Nangis, Seine et Marne; m. Gisèle Mazué 1933; one c.; ed. privately; began painting in cinemas and theatres, afterwards set up studio in Montmartre; one-man exhibitions in Paris, Canada, South America, Morocco, Tunisia, etc.; Médaille Ville de Paris, etc. *Leisure interest:* pétanque (French bowls). *Address:* 3 rue Alfred Stevens, Paris 9e, France. *Telephone:* 878-42-39.

MASSON, Paul Jean-Marie, L. EN D.; French civil servant and diplomatist; b. 21 July 1920, Ussel (Corrèze); m. Simone Ageron 1943; one s. one d.; ed. Ecole Nat. de la France d'Outre-Mer.; career

in West Africa 1945-60; fmr. Sec.-Gen. Guinea; High Commr. to Upper Volta 1958-60; Dir.-Gen. Bureau pour le développement de la production agricole 1961-67; mem. French dels. to FAO Confs. 1961, 1963, 1965; Préfet du Lot 1967-71; Dir. du Cabinet, Minister of Defence 1971-73, du Cabinet Civil et Mil., Minister of Defense May 1978-; Préfet de la Région Centre, Préfet du Loiret 1973-76, Préfet de la région Aquitaine, Préfet de la Gironde 1976-78; Officier Légion d'honneur, Commdr. Etoile Noire; Commdr. du Mérite agricole, Commdr. Ordre national du Mérite, Officier Palmes Académiques. *Publications:* Bilateral assistance—help, trade or strategy. *Address:* 4 avenue Emile-Pouvillon, 75007 Paris, France.

MASSU, Gen. Jacques; French retired army officer; b. 5 May 1908, Châlons/Marne; m. Suzanne Rosambert 1948 (died 1977); one s. two d.; ed. Ecole Spéciale Militaire de St. Cyr; joined Free French Forces Aug. 1940; took part in all the campaigns of Gen. Leclerc's 2nd Armoured Div.; Commdr., Hanoi, Indochina 1945-47, 1st Demibrigade, Colonial Parachute Commandos, 4th A.O.F. Brigade 1951-54; Gen. of Brigade 1955; as Commdr. 10th Parachute Div., directed airborne operation and landing at Port Said, Nov. 1956; Mil. Commdr. Department of Algiers Jan. 1957-60; headed the first Cttee. of Public Safety set up in Algiers and called upon Gen. de Gaulle to assume power May 1958; Commdr. Algiers Army Corps 1958-60; retd. 1960; recalled to be Mil. Gov. of Metz Nov. 1961-66; C.-in-C. French Troops in Germany 1966-69; Grand Croix de la Légion d'honneur, Compagnon de la Libération, Croix de Guerre, D.S.O., etc. *Publications:* memoirs: la Vraie Bataille d'Alger (vol. 1) 1971, le Torrent et la Digue (Vol. 11) 1973, Sept ans avec Leclerc (Vol. III) 1974, Verité sur Suez 1956 (Vol. IX) 1978. *Leisure interests:* riding, tennis, fishing, hunting, gardening. *Address:* 23 boulevard d'Argenson, 92200 Neuilly-sur-Seine, France.

MASTROIANNI, Marcello; Italian film actor; b. 28 Sept. 1924; ed. Univ. of Rome; films include Una Domenica d'Agosto 1949, Le Notti Bianche 1957, I Soliti Ignoti 1958, Bell' Antonio 1960, La Dolce Vita 1960, La Notte 1961, A Very Private Affair 1961, Divorce—Italian Style 1961, 8½ 1963, Family Diary 1963, Yesterday, Today and Tomorrow 1964, Fantasmi a Roma 1964, Casanova 70 1965, Marriage—Italian Style 1965, The Organizer 1965, The 10th Victim 1965, Ciao Rudy 1966, Lo Straniero 1967, Viaggio di G. Mastorna 1967, Shout Louder, I don't Understand, L'Etranger 1967, The Man with the Balloons 1968, Diamonds for Breakfast 1968, Leo the Last 1970, The Priest's Wife 1970, Drama of Jealousy 1970 (Prize for Best Actor, Cannes 1970), Sunflower 1970, The Pizza Triangle 1970 What? 1972, La Grande Bouffe 1973, Salut L'Artiste 1973, Massacre in Rome 1973, Touche Pas la Femme Blanche 1974, Allonsanfan 1975, Gangster Doll (Per le Antiche Scale) 1975, Bye-Bye Monkey 1978. *Address:* c/o Avv. Cav Via Maria Adelaide 8, Rome, Italy.

MATANE, Paulias Nguna; Papua New Guinea diplomatist; b. 5 July 1932, Viviran, Rabaul; s. of Ilias and Elta (Toto) Matane; m. Kaludia Peril 1957; two s. two d.; senior positions in Dept. of Educ. 1957-69; mem. Public Service Board 1969; Head, Dept. of Lands, Surveys and Mines 1969, of Business Devt. 1970-75; Amb. to U.S.A. and Mexico Sept. 1975-, Perm. Rep. to UN Oct. 1975-, High Commr. in Canada 1977-. *Publications:* My Childhood in New Guinea, A New Guinean Travels through Africa, Two New Guineans Travel through South East Asia, What Good is Business?, Aimbe the Magician, Aimbe the Challenger, Aimbe the School Dropout, Aimbe the Pastor. *Leisure interests:* reading, squash, writing, travel. *Address:* Permanent Mission of Papua New Guinea to the United Nations, 801 Second Avenue, 12th Floor, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 682-6447.

MATANO, Robert Stanley; Kenyan politician; b. 28 April 1925, Mazeras; m.; eight c.; ed. Alliance High School, Kikuyu, Makarere Univ. Coll. Asst. Educ. Officer in Naivasha, Rift Valley 1954-55, in Mombasa 1955-56; studies in admin. of educ. at Cardiff, U.K. 1956; Asst. Minister for Coast Province 1957-60; Asst. Minister Foreign Health and Home Affairs 1961; election to Legislative Council (KADU) for Kwale West; Parl. Sec. Ministry of Educ. 1961-62; election to House of Representatives 1963; Vice-Pres. Coast Regional Assembly 1963-65; Asst. Minister Foreign Affairs 1964, Health 1965, Home Affairs 1966; Asst. Sec.-Gen. KANU 1966; Asst. Minister Home Affairs 1969-73; Minister of Information and Broadcasting 1973-74 of Co-operative Devt. Nov. 1974-76, of Local Govt. 1976-78, Sec.-Gen. 1978-; mem. KADU 1960-64; mem. KANU 1964-, acting Sec.-Gen. 1972-78, Sec.-Gen. 1978-; Chair. Child Welfare Soc. 1963; Pres. Miji Tribal Union. *Leisure interests:* fishing, scouting. *Address:* c/o KANU, P.O. Box 72394, Nairobi, Kenya.

MATANZIMA, Chief Kaiser; South Africa (Transkei) lawyer and politician; b. 1915; ed. Lovedale Missionary Institution and Fort Hare Univ. Coll. Chief, Amahale Clan of Tembus, St. Marks' District 1940; mem. United Transkeian Gen. Council 1942-56; Perm. Head Emigrant Tembuland Regional Authority and mem. Exec. Cttee. Transkeian Territorial Authority 1956-58; Regional Chief of Emigrant Tembuland 1958-61; Presiding Chief Transkeian Territorial Authority 1961-63; Chief Minister of Transkei 1963-76, Prime Minister Oct. 1976-; Leader, Transkei Nat. Independence Party; Chancellor, Univ. of Transkei 1977-. *Publications:* Independence My Way 1977. *Address:* Office of the Prime Minister, Umtata, Transkei, South Africa.

MATCHANOV, Nazar Matcarimovich, D.VET. SC.; Soviet politician; b. 1923; ed. Samarkand Agricultural Inst. Mem. CPSU 1949-; Chief Veterinary Surgeon, District Agricultural Dept., Chief of Vet. Dept., Regional Agric. Board, Chief of Vet. Dept., Ministry of Agric. Deputy Minister of Agric., Uzbek S.S.R. 1949-60; Sec. Agric. Dept., Bukhara Regional Cttee., CP of Uzbekistan 1960-61; Vice-Chair. Council of Ministers, Uzbek S.S.R. 1961-62; First Sec. Bukhara Regional Cttee. of Uzbek CP 1962-65; Sec. Cen. Cttee. of CP of Uzbekistan 1965-70; fmr. Chair. Presidum of Supreme Soviet of Uzbek S.S.R., Vice-Chair. Presidium of Supreme Soviet of U.S.S.R. 1970-79; mem. Cen. Cttee. of CPSU 1971-; mem. Bureau of Cen. Cttee. of CP of Uzbekistan 1965-; Order of Lenin (three times), Order of Red Banner of Labour, Badge of Honour, and several medals. *Address:* c/o Presidium of Supreme Soviet of Uzbek S.S.R., Tashkent, U.S.S.R.

MATENJE, Dick Tennyson, B.A.; Malawian politician; b. 29 Jan. 1929, Blantyre; six s. one d.; ed. Blantyre Secondary School, Univs. of Bristol, U.K. and Ottawa, Canada, and in Australia; fmrly. Headmaster Namadzi School, Henry Henderson Inst., Soche Hill Secondary School; District Educ. Officer 1969; Principal Domasi Teachers Coll. 1971; mem. Parl. 1971-; Educ. Officer in charge of staffing secondary schools; Parl. Sec. for Trade and Industry Jan.-Feb. 1972; Minister of Trade and Industry Feb.-April 1972, of Finance 1972-78, of Education July 1978-; and of Trade, Industry and Tourism 1973-75. *Leisure interests:* listening to music, dancing, writing poetry, shooting. *Address:* Ministry of Education, Zomba, Malawi. *Telephone:* Zomba 611, Ext. 263.

MATES, Leo; Yugoslav diplomatist; b. 1911; ed. Univ. of Zagreb; Chief Editor Tanjug Agency of Yugoslavia 1945; entered Foreign Service 1945; Counsellor for Information, Yugoslav Embassy, London, and later Dir. U.N. Dept. Ministry of Foreign Affairs 1947-48, Asst. Minister of Foreign Affairs 1948; Del. to U.N. Gen. Assembly 1946-48 and 1951-55, Permanent Rep. 1953; Ambassador to U.S.A. 1954-58; Sec.-Gen. to Pres. 1958-61; Asst. to Sec. of State for Foreign Affairs 1961-62; Dir. Inst. for Int. Politics and Economics, Belgrade 1962-. *Address:* Institute for International Politics, P.O. Box 750, 11000 Belgrade, Yugoslavia.

MATHÉ, Georges, M.D.; French professor of medicine; b. 9 July 1922; ed. Lycée Banville, Moulins, and Univ. de Paris. Head of Clinic, Medical Faculty, Paris Univ. 1952-53, Prof. of Cancer Research Fac. Medicine, Paris 1956-67; Head, Dept. of Haematology, Inst. Gustave-Roussy 1961-; Technical Counsellor, Ministry of Health 1964-66; Dir. Inst. de Cancérologie et d'Immunogénétique 1965-; Prof. of Experimental Cancerology, Faculté de Médecine de l'Université de Paris-Sud, Villejuif; Editor-in-Chief Biomedicine; Co-editor Cancer Chemotherapy and Pharmacology, Cancer Immunology and Immunotherapy; mem. Cen. Cttee. Rassemblement pour la République; Prés. Comité Consultatif de la Recherche Scientifique et Technique 1972, Medical Oncology Soc.; Médaille d'or des Hôpitaux, Officier Légion d'honneur. *Publications:* Le Métabolisme de l'Eau (with J. Hamburger) 1952, La Greffe (with J. L. Amiel) 1962, Aspects Histologiques et Cytologiques des Leucémies et Hématosarcomes (with G. Sémar) 1963, L'Aplasie Myélo-Lymphoide de l'Irradiation Totale (with J. L. Amiel) 1965, Sémiologie Médicale (with G. Richet) 1965 (3rd edn. 1977), La Chimiothérapie des Cancers 1966 (3rd edn. 1974), Le Cancer 1967, Bone Marrow Transplantation and White Cells Transfusions (with J. L. Amiel and L. Schwarzenberg) 1971, La Santé—est-elle au dessus de nos moyens (with Catherine Mathé) 1970, Natural History and Modern Treatment of Hodgkin's Disease (with M. Tubianan) 1973, Histocytological typing of the neoplastic diseases of the haematopoietic and lymphoid tissues (with H. Rappaport) 1973, Cancérologie générale et clinique a l'usage du practicien et de l'étudiant (with A. Cattan) 1974, Le temps d'y penser 1974, Cancérologie à l'usage du practicien et de l'étudiant 1976, Immunothérapie active des cancers: immunoprévention et immunorestauration 1976, Cancer Active Immunotherapy; Immunoporphylaxis and Immunorestoration: An Introduction 1976, Cancer Chemotherapy: Its Role in the Treatment Strategy of Hematologic Malignancies and Solid Tumors (with A. Clarysse and Y. Kenis) 1976. *Address:* Institut de Cancérologie et d'Immunogénétique, Hôpital Paul-Brousse, 14

Avenue Paul-Vaillant-Couturier, 94 Villejuif (Office); Le Fonbois, Rue du Bon Puits, 91 La Norville, France (Home). *Telephone:* 726-4510 (Office); 490-03-58 (Home).

MATHER, Sir Kenneth, Kt. C.B.E., D.SC., LL.D., F.R.S.; British geneticist and former university vice-chancellor; b. 22 June 1911, Nantwich; s. of R. W. Mather; m. Mona Rhodes 1937; one s.; ed. Nantwich and Acton Grammar School and Univs. of Manchester and London. Lecturer in Galton Laboratory, Univ. Coll. London 1934-37; Rockefeller Research Fellow, California Inst. of Technology and Harvard Univ. 1937-38; Head of Genetics Dept., John Innes Horticultural Inst. 1938-48; Prof. of Genetics Univ. of Birmingham 1948-65; Vice-Chancellor Univ. of Southampton 1965-71; Hon. Prof. of Genetics Univ. of Birmingham 1971-; mem. Agricultural Research Council 1949-54, 1955-60, 1969-, Science Research Council 1965-69, Govt. Advisory Cttee. on Irradiation of Food 1967-74, Genetic Manipulation Advisory Group (D.E.S.) 1976-78; Weldon Medal, Univ. of Oxford 1962; Darwin Medal, Royal Soc. 1964. *Publications:* The Measurement of Linkage in Heredity 1938, Statistical Analysis in Biology 1943, Biometrical Genetics 1949, The Elements of Genetics (with C. D. Darlington) 1949, Genes, Plants and People (with C. D. Darlington) 1950, Human Diversity 1964, Elements of Biometry 1967, Biometrical Genetics (2nd edn. with J. L. Jinks) 1971, Genetical Structure of Populations 1973, Introduction to Biometrical Genetics (with J. L. Jinks) 1977. *Address:* Department of Genetics, University of Birmingham, P.O. Box 363, Birmingham, B15 2TT (Office); 296 Bristol Road, Birmingham, B5 7SN, England. (Home). *Telephone:* 021-472-1301 (Office); 021-472-2093 (Home).

MATHER, Leonard Charles, C.B.E., B.COM., F.I.B., F.C.I.S.; British banker; b. 10 Oct. 1909, Cheshire; s. of Richard and Elizabeth Mather; m. Muriel Armor Morris 1937; ed. Oldershaw School, Wallasey. Jt. Gen. Man. Midland Bank Ltd. 1958-63, Asst. Chief Gen. Man. 1964-66, Deputy Chief Gen. Man. 1966-68, Dir. 1968-, Chief Gen. Man. 1968-72, Vice-Chair, 1972-74; Chair. United Dominions Trust Ltd. 1974-; Dir. Midland Bank Trust Co. 1968-74, Midland and Int. Banks Ltd. 1969-74, Montagu Trust Ltd. 1969-74, European Banks Int. Co. S.A. 1970-72, Clydesdale Bank Ltd. 1972-74, Northern Bank Ltd. 1972-74, Northern Bank Devt. Corpn. Ltd. 1972-74, European Banking Co. Ltd. 1973-74; Chair. European Banks Int. Co. S.A. 1972-74; Chair. Int. Commodities Clearing House; Deputy Chair. Euro-Pacific Finance Corpn. Ltd. 1971-74; Deputy Chair. Inst. of Bankers 1967-69, Pres. 1969-70, Life Vice-Pres. 1970-, Hon. Fellow 1974; Hon. D. Litt. (Loughborough) 1978; Inst. of Bankers' Prize. *Publications:* The Lending Banker 1955, Banker and Customer Relationship and the Accounts of Personal Customers 1956, The Accounts of Limited Company Customers 1958, Securities Acceptable to the Lending Banker 1960. *Leisure interests:* golf, bridge, theatre. *Address:* United Dominions Trust Ltd, 51 Eastcheap, London, EC3P 3BU; Home: Rochester House, Parkfield, Seal, Sevenoaks, Kent, England. *Telephone:* 01-623 3020 (Office); 0732-61007 (Home).

MATHERS, Fred Desbrisay, B.A.; Canadian businessman; b. 11 Jan. 1896, Neepawa, Manitoba; m. Gladys Catherine Robinson 1920; one s. one d.; ed. Univ. of Edinburgh and McGill Univ. Chair. Board of Dirs. Delnor Frozen Foods Ltd. 1935-, Royal City Foods Ltd. 1939-; Admin., Processed Fruits and Vegetables, Wartime Prices and Trade Board, Ottawa 1942-45; Commr., Int. Pacific Salmon Fisheries Comm. 1956-60; Pres. Canadian Manufacturers' Assn. 1961-62, Dir. British Columbia Hydro and Power Authority 1962-; mem. Advisory Cttee. Guaranty Trust 1957-; Pres. Fraser Canadian Club 1968-69; Canadian Govt. Medal of Merit. *Leisure interests:* hunting, fishing, piloting single-engine plane. *Address:* 3676 Bainbridge Avenue, Burnaby 2. B.C., Canada. *Telephone:* (604) 291-9421.

MATHESON, Sir (James Adam) Louis, K.B.E., C.M.G., PH.D., F.I.C.E., F.I.STRUCT.E.; British engineer, university professor and administrator; b. 11 Feb. 1912, Huddersfield, Yorks.; s. of William and Lily Edith Matheson; m. Audrey Elizabeth Wood 1937, three s.; ed. Bootham School, York and Manchester Univ. Lecturer, Birmingham Univ. 1938-46; Prof. Civil Eng., Univ. of Melbourne 1946-50; Beyer Prof. of Eng., Manchester Univ. 1950-59; Vice-Chancellor, Monash Univ., Victoria, Australia 1959-76; mem. Mission on Technical Educ. to the W. Indies 1957, Ramsay Cttee. on Devt. of Tertiary Educ. in Victoria 1961-63, Commonwealth Scientific and Industrial Research Org. Advisory Council 1962-67, Royal Comm. into Failure of Kings Bridge 1962-63; Trustee Inst. of Applied Science of Victoria, now Science Museum of Victoria 1964-; mem. Council Inst. of Engineers, Australia 1965-, Senior Vice-Pres. 1974-75, Pres. 1975-76; mem. Council Inst. of Civil Engineers 1966-68; Vice-Pres. Inst. Structural Engineers 1967-68; mem. Interim Council Univ. of Papua New Guinea 1965-73; Chair. Papua New Guinea Inst. of Technology 1966-73, now Papua New Guinea Univ. of Technology, Chancellor 1973-75; Chair. Australian Science and Technology Council 1975-76, mem. 1977-; Chair. Buildings Cttee. Schools Comm. 1976-, Victorian Planning and Finance Cttee. Schools Comm. 1979-; mem. Enquiry Post-Secondary Educ., Victoria 1976-78; Chair. Australian Vice-Chancellors Cttee. 1967-68, Assn. of Commonwealth Univs. 1967-69; Dir. Nauru Phosphate Corpn. 1977-; Fellow Australian Acad. of Tech. Sciences; Hon. Fellow Inst. of Engineers, Australia; Hon. D.Sc. (Hong Kong), Hon. LL.D. (Manchester, Melbourne and Monash Univs.); Kernot Medal 1970, Peter Nicol Russell Medal 1976. *Publications:* Papers on technical and educational subjects. *Leisure interest:* music. *Address:* 26/166 West Toorak Road, South Yarra, Victoria 3141, Austrialia. *Telephone:* (03) 26 4957, (03) 787 1931.

MATHEWS, (Forrest) David, PH.D.; American teacher, administrator and politician; b. 6 Dec. 1935, Grove Hill, Ala.; m. Mary Chapman; two d.; ed. Univ. of Alabama and Columbia Univ. Infantry Officer U.S. Army 1959-60; Asst. Dean of Men, Univ. of Alabama 1960-62, Interim Dean of Men 1965-66, Exec. Asst. in Office of Pres. 1966-68, Exec. Vice-Pres. 1968-69, Pres. 1969-75, Lecturer in History 1965-75; Sec. of Health, Educ. and Welfare 1975-77; mem. numerous advisory boards etc.; Trustee: American Univ. Field Staff 1969-, John F. Kennedy Center for Performing Arts 1975-, Woodrow Wilson Int. Center for scholars 1975-; Algernon Sidney Sullivan Award, Univ. of Alabama; numerous other awards and hon. degrees. *Publications:* several works on history of Southern U.S.A. and higher educ. in America. *Address:* 816 Turkey Run Road, McLean, Va. 22101, U.S.A.

MATHIAS, Charles McC., Jr.; American lawyer and politician; b. 24 July 1922, Frederick, Md.; s. of Charles McC. Mathias, Sr., and Theresa Trail Mathias; m. Ann Hickling Bradford 1958; two s.; ed. public schools, Frederick, Md., Haverford Coll., Yale Univ. and Univ. of Maryland; apprentice seaman 1942, commissioned Ensign 1944, [redacted] duty, Pacific 1944-46; Captain U.S. Naval Reserve retd.; admitted to Maryland Bar 1949, to U.S. Supreme Court Bar 1954; Asst. Attorney-Gen. of Maryland 1953, 1954; City Attorney, Frederick, Md. 1954-59; mem. Md. House of Dels. 1958; mem. U.S. House of Reps. 1960-68; U.S. Senator from Maryland 1969-; Republican. *Address:* United States Senate, Washington, D.C. 20510; R.2., Frederick, Md., 21701, U.S.A.

MATHIESEN, Matthias (Árnason), CAND. JURIS; Icelandic lawyer and politican; b. 6 Aug. 1931, Hafnarfjörõur; s. of Árni M. and Svava E. Mathiesen; m. Sigrún Thorgilsdóttir 1956; two s. one d.; ed. Univ. of Iceland. Chief Exec. Hafnarfjörõur Saving Bank 1958-67, Chair 1967; Advocate, Supreme Court 1967-74; mem. Althing (Parl.) 1959-, Speaker Lower Chamber 1970-71; Rep. of Althing to Nordic Council 1965-74, mem. Presidium 1970-71, 1973-74, Pres. 1970-71; Del. North Atlantic Assembly, NATO 1963-69, 1972, Chair. Icelandic Del. 1964-69, Pres. of Ass. 1967-68; Dir. Nat. Bank of Iceland 1961-, Vice-Chair. 1966-72; Deputy Rep. to World Bank Group (IBRD, IDA, IFC) 1974; Minister of Finance 1974-78; mem. Central Cttee., Independence Party 1965-. *Address:* Hringbraut 59, Hafnarfjörõur, Iceland. (Home). *Telephone:* (91) 5-02-76 (Home).

MATHIEU, Georges Victor Adolphe, L. ES L.; French artist; b. 27 Jan. 1921, Boulogne; s. of Adolphe Mathieu d'Escaudoeuvres and Madeleine Dupré d'Ausque; ed. Facultés de droit et des lettres, Lille. Teacher of English; Public Relations Man., United States Lines; exhibited at Paris 1950, New York 1952, Japan 1957, Scandinavia 1958, England, Spain, Italy, Switzerland, Germany, Austria and South America 1959, Middle East 1961-62, Canada 1963; special exhbn. of work held at Musée Municipal d'Art Moderne, Paris 1963; exhbn. of one hundred paintings, Galerie Charpentier, Paris 1965; designed gardens and buildings for B.C. transformer factory, Fontenay-le-comte 1966; 16 posters for Air France exhibited at Musée Nat. d'Art Moderne, Paris 1967; exhibition of 10 tapestries at Musée de la Manufacture Nat. des Gobelins 1969; designed 18 medals for Paris Mint 1971, new 10F coin 1974; works exhibited in numerous countries including shows in Antibes 1976, Ostend 1977, Grand Palais, Paris 1978; creator of "Tachism"; mem. Acad. of Fine Arts. *Publications:* Au-dela du Tachisme, Le privilège d'Etre, De la Révolte à la Renaissance, La Réponse de l'Abstraction lyrique. *Principal works:* Hommage à la Mort 1950, Hommage au Maréchal de Turenne 1952, Les Capétiens Partout 1954, La Bataille de La Victoire de Denain 1963, Hommage à Jean Cocteau 1963, Paris, Capitale des Arts 1965, Hommages aux Frères Boisserée 1967, Hommage à Condillac 1968, La prise de Berg op Zoom 1969, Election de Charles Quint 1971. *Address:* 23 Quai Conti, 75006 Paris, France.

MATOKA, Peter Wilfred: Zambian politician and diplomatist; b. 8 April 1930, Mwinilunga, North-Western Province; m. Grace J.

Mukahlera 1957; two s. one d.; ed. primary and secondary schools, Fort Hare Univ. Coll. and American Univ., Washington, D.C. Civil Servant 1955-63; Minister of Information and Postal Services 1964-65, of Health 1965-66, of Works 1967, of Power, Transport and Works 1968; Minister for Luapula Province 1969; High Commr. of Zambia in U.K. 1969-70, concurrently accredited to the Vatican; Minister for the Southern Province 1970-71, of Health 1971-72, of Local Govt. and Housing 1972-75, of Devt. Planning and Public Works 1975-77, of Econ. and Tech. Co-operation 1977-79; Knight of St. Gregory (Vatican) 1964; Knight, Egypt and Ethiopia. *Leisure interests:* fishing, bird shooting, group discussion and photography. *Address:* c/o United National Independence Party, P.O.B. 302, Lusaka, Zambia.

MÁTRAI, László, PH.D.; Hungarian librarian and writer; b. 17 Jan. 1909, Budapest; s. of Zoltán Miles-Mátrai and Malvina Grimm; m. 1st Jolán Zemplén 1933, 2nd Edith Schweitzer 1957; one s. two d.; ed. Budapest Univ. Asst. 1933, Librarian 1935, Dir.-in-Chief of University Library, Budapest 1945-; mem. Inst. Int. Philosophy I.I.P. 1937-, Docent, Budapest Univ. 1940-; Corresp. mem. Hungarian Acad. of Sciences 1947-, regular mem. 1962-; Prof. Univ. Budapest 1964-. *Publications:* A jelenkori esztétika föirányai (Principal Trends in Present Day Aesthetics) 1931, Modern gondolkodás (Modern Thinking) 1938, Élmény és mü (Experience and Oeuvre) 1940, Karakterológia (Characterology) 1943, Haladás és fejlödés (Progress and Development) 1947, Gondolat és szabadság (Thought and Liberty) 1961, Régi magyar filozófusok XV-XVII (Old Hungarian Philosophers) 1961, Introduction to a Hungarian bilingual edition of J. Locke's Epistolae de Tolerantia 1973, Alapját vesztett felépitmény (Superstructure devoid of Basis) 1976, A kultura története (History of Culture) 1977. *Leisure interest:* music. *Address:* University Library, Károlyi Mihály u. 10, P.O. Box 483, 1372 Budapest, Hungary. *Telephone:* 185-865.

MATSEBULA, Mhlangano Stephen; Swazi business executive and politician; b. 16 July 1925, Maphalaleni, Mbabane; s. of Khwane and Simpompoza Matsebula, m. Fihliwe Zwane 1952; one s. six d.; ed. High School. Regional Sec., Swazi Commercial Amadoda; Exec. mem. Imbokodvo Nat. Movt.; mem. House of Assembly 1967, Minister of State for Foreign Affairs 1972-78. *Leisure interests:* handicrafts, reading, football. *Address:* c/o Imbokodvo National Movement, P.B. Mbabane, Swaziland.

MATSKEVICH, Vladimir Vladimirovich; Soviet agriculturist and politician; b. 14 Dec. 1909; ed. Kharkov Inst. of Veterinary Science. Dir. Kharkov Inst. of Veterinary Science 1939; First Deputy Minister of Animal Husbandry of the Ukraine 1946-47, Minister 1949-53; First Deputy Minister of Agric. of U.S.S.R. 1953-55, Minister 1955-60, 1965-73; Deputy Chair. U.S.S.R. Council of Ministers for Agric. 1956-57; Deputy Chair. State Planning Comm. (Gosplan) 1957-61; Chair. Exec. Cttee. of Workers' Deputies, Tselinograd, Kazakh S.S.R. 1960-65; mem. CPSU 1939-, Cen. Cttee. C.P. 1956-61, 1966-; Vice-Chair. State Econ. Comm. 1957-60; Leader, Soviet Agric. Del. to U.S.A. and Canada; Chair. U.S.S.R. Council of Collective Farms 1970-73; Deputy to U.S.S.R. Supreme Soviet 1950-; Amb. to Czechoslovakia 1973-; Order of Lenin (four times), Order of Red Banner, and other decorations. *Address:* U.S.S.R. Embassy, Pod Kaštany 1, 125 41 Prague, Czechoslovakia.

MATSUDA, Kohei; Japanese business executive; b. 28 Jan. 1922, Osaka; s. of Tsunjei and Misako Matsuda; m. Setsuko Tsutsui 1950; two s. one d.; ed. Law Dept. Keio Univ.; Dir., Hiroshima Mazda Co. Ltd. 1946, Pres. 1956; Pres. Mazda Auto Hiroshima Co. Ltd. 1959; Exec. Vice-Pres. Toyo Kogyo Co. Ltd. 1961, Pres. 1970-78; Chair. Japan Automatic Transmission Co. Ltd. *Leisure interests:* photography, driving. *Address:* 10-31, Kaminobori-cho, Hiroshima, Japan. *Telephone:* 0822-(21)-1438.

MATSUKATA, Masanobu; Japanese business executive; b. 13 Aug. 1907; ed. Keio Univ.; with Tokyo Gas, Electric and Engineering Co. Ltd. 1932; Head of Gen. Affairs Dept. Tokyo Automobile Industry Co. Ltd., Hino Plant 1940; Head of Sales Dept., Hino Heavy Industry Co. Ltd. 1942, Head of Supply Div. 1943, Dir. and Gen. Man. 1945; Man. Dir. Hino Industry Co. Ltd. 1946; Senior Man. Dir. Hino Diesel Industry Co. Inc. 1950, Vice-Pres. 1954; Pres. Hino Motors Ltd. 1961-74, Chair. 1974-; now also Chair. Hino Motor Sales Ltd., Sitsui Seiki Kogyo Co. Ltd., Teikoku Auto Industry Co. Ltd.; Dir. Sawafuji Electrical Co. Ltd., Auto Industry Employers' Assen., Japan Automobile Mfrs. Assen. Inc., Japan Ordinance Assen., Japan Automobile Chamber of Commerce; Financial Dir. Japan Fed. of Employers' Assens.; Blue Ribbon Medal. *Leisure interests:* golf, floriculture. *Address:* Hino Motors Ltd., Hinodai 3-1-1-, Hino City, Tokyo, Japan. *Telephone:* 03-272-4811 (Office).

MATSUMOTO, Shigeharu, B.A.; Japanese writer and executive; b. 2 Oct. 1899, Osaka; s. of Matsuzo Matsumoto and Mitsuko Matsumoto (née Matsukata); m. M. Hanako 1929; two s. one d.; ed. Faculty of Law, Univ. of Tokyo, Yale Univ., Univs. of Wisconsin, Geneva and Vienna. Asst. Faculty of Law, Univ. of Tokyo 1928-30; Lecturer Chuo Univ., Hosei Univ., Japan Women's Univ. 1929-33; Rep. Shanghai Branch Rengo News Service 1933-34, Domei (now Kyodo) News Service 1935-39; Editor-in-Chief Domei News Service 1940-44, and Man. Dir. 1944-45; mem. U.S. Educ. Comm. (Fulbright), Tokyo 1954-57; Columnist Asahi Newspaper 1956; Gen. Partner Matsumoto, Kojima and Matsukata (law office) 1947-; Man. Dir. Int. House of Japan, Inc. 1952-65, Chair. Board of Dirs. Int. House of Japan, Inc. 1965-; Pres. Japanese Assen. for American Studies 1952-67, Man. Dir. 1968-; Pres. Inst. of Nat. Econ. (Kokumin Keizai Kenkyn Kyokai) 1951-56; Dir. Nippon Light Metal Co. 1957-75, Dentsu Advertising Ltd. 1961-; Vice-Pres. Nat. Comm. of Japan for UNESCO 1957-63; Counsellor, Inst. of Asian Econ. Affairs 1960-; mem. Board of Govs. Japan Broadcasting Corpn. 1961-65; Chair. Grew Foundation 1971-, Bancraft Educational Aid Fund 1971-; Hon. Dr. of Laws (Rutgers) 1966, Hon. D.Litt. (Sophia Univ., Tokyo) 1976; First Class Order of the Sacred Treasure 1969; named "Person of Cultural Merit" by Minister of Education. *Publications:* edited Memoirs of Aisuke Kabayama (in Japanese) 1956; co-edited A Documentary History of American People 6 vols. (in Japanese) 1950-58; translated: Albert Thomas's Histoire Anecdotique du Travail 1928, Dr. S. Johnson's Beikoku San-ijin no Shogai to sono Shiteki Haikei (with Y. Takagi) 1929, C.A. Beard's The Republic 2 vols 1948-49, A Basic History of the United States 2 vols. (with K. Kishimura) 1954-56, American Spirit (with Y. Takagi) 1954; edited: Arnold Toynbee's Lessons of History (lectures in Japan) 1957, A History of the World 1945-61 (in Japanese) 1962, The Mind of India (lectures in Japan by J. Nehru and others) 1961, lectures on Aspects of American Culture (lectures in Japan by David Riesman) 1962, Basic Problems of U.S. Foreign Policy (lectures in Japan by George Kennan) 1965, My Shanghai Days 1932-38 (3 vols.) 1974. *Leisure interest:* golf. *Address:* The International House of Japan, Inc., 11-16, 5-chome, Roppongi, Minato-ku, Tokyo, Japan. *Telephone:* 03-470-4611.

MATSUNAGA, Hisashi; Japanese shipping executive; b. 19 Aug. 1914, Kokura City, Fukuoka; s. of Tozou [illegible]d Shin Matsunaga; m. Masako Hasegawa 1942; [illegible] s. one d.; ed. Hitotsubashi Univ. Dir. Japan Line Ltd. 1967, Man. Dir. 1969, Senior Man. Dir. 1972, Exec. Vice-Pres. May 1973, Pres. July 1973, Chair. 1978-; Medal of Honour with Blue Ribbon. *Leisure interest:* golf. *Address:* 6-28-12, Kinuta, Setagaya-ku, Tokyo, Japan. *Telephone:* 416-4633.

MATSUNAGA, Masanao; Japanese international financial official; b. 1924; ed. Faculty of Law, Tokyo Univ. Ministry of Finance 1948-63; First Sec. Embassy in Brussels 1963-65; Financial Attaché, Paris 1965-68; Dir. Second Insurance Div. of Insurance Dept., Banking Bureau in Ministry of Finance 1968-70; Dir. Int. Orgs. Div. of Int. Finance Bureau 1970-71, Int. Co-ordination Div. 1971-73; Dir.-Gen. Nagoya Regional Tax Admin. 1973-74; Deputy Dir.-Gen. Finance Bureau, Ministry of Finance 1974-75, with Securities Bureau 1975-76; Exec. Dir. for Japan, IMF Nov. 1976-. *Address:* International Monetary Fund, 19th and H Streets, N.W., Washington, D.C. 20431, U.S.A.

MATSUNAGA, Spark Masayuki, J.D.; American politician; b. 8 Oct. 1916, Kukuiula, Kauai, Hawaii; s. of Kingoro and Chiyono Fukushima Matsunaga; m. Helene Hatsumi Tokunaga 1948; five c.; ed. Univ. of Hawaii, Harvard Law School; served U.S. Army from Second Lieut. to Captain 1941-45; Veterans' Counsellor, U.S. Dept. of Interior 1945-47; Head of Priority Claimants' Div., War Assets Admin. 1947-48; admitted to Hawaii bar 1952; Asst. Public Prosecutor, City and County of Honolulu 1952-54; practised law in Honolulu 1954-62; mem. Hawaii House of Reps. 1954-59, Majority Leader 1959; mem. U.S. House of Reps. 1963-76, mem. Rules Cttee., Deputy Chief Whip; U.S. Senator from Hawaii Jan. 1977-; mem. Hawaii statehood dels. to Congress 1950, 1954, Pacific War Memorial Comm. 1959-62, American and Hawaii Bar Asscns., Japan-America Soc.; Bronze Star, Purple Heart with Oak Leaf Cluster; Democrat. *Address:* United States Senate, Capitol Hill, Washington, D.C. 20510 (Office); 4020, Glenrose Street, Kensington, Maryland, U.S.A. (Home).

MATSUNO, Raizo; Japanese politician; b. 12 Feb. 1917; ed. Keio Univ.; fmrly. with Hitachi Ltd.; Japanese Navy, Second World War; fmr. Pres. Johoku Brewing Co.; fmr. Private Sec. to Prime Minister (Mr. Yoshida); mem. House of Reps.; fmr. Parl. Vice-Minister, Ministry of Welfare; Dir.-Gen. Prime Minister's Office; Minister of Labour 1959-60; Minister of State in charge of Defence Agency 1965-66; Minister of Agric. 1966-67; Chair. Policy Affairs

Research Council, Liberal-Democratic Party 1974-79; Chair. Liberal-Democratic Party Sept.-Dec. 1976; Liberal-Democrat. *Address:* 84 Imazato Shirogane, Shiba, Minato-ku, Tokyo, Japan.

MATSUSHITA, Konosuke; Japanese businessman; b. 27 Nov. 1894, Wasa Village, Wakayama Prefecture; s. of Masakusu and Tokue Matsushita; m. Mumeno Iue 1915; one d.; founded Matsushita Electric Housewares Mfg. Works 1918, incorporated into Matsushita Electric Industrial Co. Ltd. 1935, fmr. Pres., Chair. 1961-73, Adviser, mem. of Board 1973-; Pres. Matsushita Communication Industrial Co. Ltd. 1958-66, Chair. 1966-70, Dir. 1970-; Pres. Matsushita Real Estate Co. Ltd. 1952-; Pres. Matsushita Electronics Corpn. 1952-66, Chair. 1966-71, Dir. 1971-; Chair. Kyushu Matsushita Electric Co. Ltd. 1955-74 Adviser 1974-; Chair. Matsushita Reiki Co. Ltd. (formerly Nakagawa Electric Co. Ltd.) 1951-77, Dir. 1974-77, Adviser to the Board 1977-; Chair. Matsushita Electric Works Ltd. 1951-71, Dir. 1971-; Adviser Matsushita Electric Trading Co. Ltd.; Chair. Matsushita Electric Corpn. of America 1959-74, Dir. 1974-75; Chair. Victor Co. of Japan Ltd. 1962-70, Exec. Adviser 1970-74, Adviser 1974-; Vice-Pres. Electronic Industries Assn. of Japan 1958-68; Man. Dir. Fed. of Econ. Orgs. of Japan 1956-73, Hon. mem. 1973-; mem. Int. Chamber of Commerce 1962-66, Adviser 1966-; mem. Advisory Cttee. Japan Nat. Railway 1962-71; Blue Ribbon Medal 1956; Commdr., Order of Orange-Nassau (Netherlands) 1958, Rising Sun 1965, Commdr. Ordre de la Couronne (Belgium) 1972; Hon. LL.D. (Waseda, Keio and Doshisha Univs.). *Publications:* What I do, and What I think, The Dream of My Work and the Dream of Our Life, The Words of Peace and Happiness through Prosperity, My View Towards Prosperity, My Thoughts on Man, Looking Back on the Past and Forward to Tomorrow, Reflections on Business, Reflections on Management, A Way to Look at and Think About Things, Why? *Leisure interest:* performance of tea ceremony. *Address:* 1006 Kadoma, Kadoma City, Osaka, Japan 571. *Telephone:* (06) 908-1121.

MATSUSHITA, Masaharu, B.IUR.; Japanese businessman; b. 17 Sept. 1912, Tokyo; s. of Eiji and Shizuko Hirata; m. Sachiko Matsushita; two s. one d.; ed. Tokyo Imperial Univ.; Mitsui Bank 1935-40; Matsushita Electric Industrial Co. Ltd. 1940-, Auditor 1944-47, Dir. 1947-49, Vice-Pres. 1949-61, Pres. 1961-77, Chair. 1977-; Dir. Matsushita Electronics Corpn. 1952-72, Chair. 1972-; Auditor, Matsushita Real Estate Co. Ltd. 1952-68, Dir. 1968-; Dir. Matsushita Communication Industrial Co. Ltd. 1958-70, Chair. 1970-; Dir. Matsushita Seiko Co. Ltd. 1956-, Kyushu Matsushita Electric Co. Ltd. 1955-, Matsushita Reiki Co. Ltd. (formerly Nakagawa Electric Inc.) 1961-, Matsushita Electric Corpn. of America 1959-74 (Chair. 1974-); Pres. Electronics Industries Assn. of Japan 1968-70; Rep. Dir., Kansai Cttee. for Econ. Devt. 1962-, Dir. 1975–; mem. Standing Cttee., Osaka Chamber of Commerce 1966-; Standing Dir., Kansai Econ. Fed. 1970-, Vice-Pres. 1977-; Blue Ribbon Medal 1972; Commdr. of Order of Orange-Nassau (Netherlands) 1975. *Address:* Matsushita Electric Industrial Co. Ltd., 571 1006 Kadoma, Kadoma City, Osaka, Japan.

MATSUSHITA, Masatoshi, PH.D.; Japanese lawyer and university administrator; b. 1901; ed. Rikkyo (St. Paul's) Univ., Tokyo, Carleton Coll. and Columbo Univ. Prof. Rikkyo (St. Paul's) Univ. 1929; Attorney for Gen. Tojo, Int. Mil. Court of the Far East; Pres. Rikkyo (St. Paul's) Univ. 1955-67; personal envoy of Prime Minister of Japan to Great Britain, requesting ■ suspension of nuclear tests 1957; mem. House of Councillors 1968-. *Publications:* War Power of the United States, Fundamental Principles of American International Law. *Address:* 3B Roppongi Fortress Apts., 12-2 3-chome, Roppongi Azabu, Minato-ku, Tokyo, Japan.

MATSUZAWA, Takuji; Japanese banker; b. 17 July 1913, Tokyo; s. of Takanori and Tameko Matsuzawa; m. Toshiko Yoshioka 1942; one s. one d.; ed. Tokyo Imperial Univ.; joined The Yasuda Bank Ltd. 1938 (name changed to The Fuji Bank Ltd. 1948), Chief Man. Planning and Co-ordination Div. 1959-61, Dir. and Chief Man. Planning and Co-ordination Div. 1961-63, Man. Dir. 1963-71, Deputy Pres. 1971-75, Chair. of Board and Pres. The Fuji Bank Ltd. 1975-; Chair. of Research and Policy Cttee., Japan Cttee. for Econ. Devt. (Keizai Doyukai) 1973-75; Man. Dir. Japan Fed. of Econ. Orgs. (Keidanren) 1975-; Pres. Fed. of Bankers Asscns. 1978-. *Leisure interests:* playing golf, reading, theatre-going. *Address:* The Fuji Bank Ltd., 5-5, 1-chome Otemachi, Chiyodaku, Tokyo (Office); 8-7, 2-chome Shoto, Shibuya-ku, Tokyo, Japan (Home). *Telephone:* 467-8838.

MATSUZAWA, Yuzo; Japanese politician; Mem. of House of Reps. (seven times); Chair. Lower House Social and Labour Cttee.; fmr. Deputy Sec.-Gen. Liberal Democratic Party; Dir.-Gen. Admin. Management Agency 1974-76. *Address:* c/o House of Representatives, Tokyo, Japan.

MATTA (R. A. S. Matta-Echaurren); Chilean artist; b. 11 Nov. 1911; ed. Univ. Católica de Chile, Santiago, Ecole d'Urbanisme et Architecture, Paris and Atelier Le Corbusier; U.S.A. 1939-; exhbns. at Julien Levy Gallery 1940, Pierre Matisse Gallery 1941, 1943, 1945, 1947, Sidney Janis Gallery 1949, 1951, 1954, Allen Frumkin Gallery (all in New York) 1954, Alexandre Idlas Gallery, N.Y. 1964-; and other galleries in Paris 1964-, Geneva 1964-, Stockholm 1959, Bologna 1963, Amsterdam 1964, Cuba 1964, Lucerne 1965; works permanently displayed at Museum of Modern Art, New York City, Harvard Athenaeum, St. Louis Museum, etc. *Address:* Boissy Sans Avoir, S.-et-O., France.

MATTEOLI, Jean, LIC. EN DROIT; French business executive; b. 20 Dec. 1922, Montchanin; s. of Joseph and Jeanne Pernot Matteoli; m. Christine Gibassier 1946; four s. two d.; Asst. with Special Functions to Cabinet of Commr. of the Repub. of Bourgogne-Franche Comté 1945-46, to Cabinet of Administrator of French Occupied Zone in Germany 1946-48, to Collieries of Nord and Pas-de-Calais 1948-68; Dir. External Relations, Comm. for the Industrialization of Nord and Pas-de-Calais 1953-68, Sec. of Exec. Council 1957-72; Pres. Ardennes Industrialization Bureau 1968-72; Pres. Dir.-Gen. SICCA (Société Industrielle et commerciale des charbonnages) 1972-; Pres. Exec. Council, Charbonnages de France 1973-, Vice-Pres. Supervisory Council 1976-; Croix de guerre, Médaille de la Résistance, Commdr. Légion d'honneur. *Leisure interest:* painting. *Address:* Charbonnages de France, 9 avenue Percier, 75008 Paris (Office); 11 rue Magellan, 75008 Paris, France (Home). *Telephone:* 563-11-20 (Office); 720-03-36 (Home).

MATTEOTTI, Gianmatteo; Italian journalist and politician; b. 17 Feb. 1921, Rome; s. of Giacomo and Titta Velia Matteotti; m. Giuliana Candiani 1954; two d.; ed. Ginnasio-Liceo "Terenzio Mamiani", Rome, and Univ. of Rome; Sec., Fed of Socialist Youth 1944-46; Deputy to Constituent Assembly 1946-48; Deputy to Parl. 1948-68; Nat. Sec. Partito Socialista Democratico Italiano 1954-57, mem. Directorate 1963-66, mem. Secr. 1970-; Minister of Tourism and Culture 1970-72; Minister of Foreign Trade 1972-Oct. 1974. *Publications:* La classe operaia sotto il fascimo 1944. *Leisure interests:* archaeology, music, numismatics. *Address:* 00197 Rome, Via Luciani 1945, Italy. *Telephone:* 804478.

MATTHAU, Walter; American actor; b. 1 Oct. 1920; ed. New York; New York Drama Critics Award 1951, 1958; Antoinette Perry Award 1961, 1964; Acad. Award for The Fortune Cookie; British Soc. of Film and TV Arts Award for Pete 'n' Tillie and Charlie Varrick. *Stage appearances in* Anne of a Thousand Days 1948, The Liar 1949, Season in the Sun 1950, Fancy Meeting You Again 1951, Twilight Walk 1951, One Bright Day 1951, In Any Language 1952, The Grey-Eyed People 1952, The Ladies of the Corridor 1953, Will Success Spoil Rock Hunter 1955, Once More with Feeling 1958, Once There Was a Russian 1960, A Shot in the Dark 1961, My Mother, My Father and Me 1963, The Odd Couple 1964. *Films include:* The Kentuckian 1955, Bigger than Life 1956, A Face in the Crowd 1957, Slaughter on Tenth Avenue 1957, Ride a Crooked Trail 1958, Lonely are the Brave 1962, Charade 1963, Fail Safe 1964, Mirage 1965, The Fortune Cookie (British title Meet Whiplash Willie) 1966, A Guide for the Married Man 1967, The Odd Couple 1968, The Secret Life of an American Wife 1968, Candy 1968, Hello Dolly 1969, Cactus Flower 1969, A New Leaf 1971, Plaza Suite 1971, Kotch 1971, Pete 'n' Tillie 1972, Charley Varrick 1973, The Laughing Policeman 1973, Earthquake 1974, The Taking of Pelham One Two Three 1974, The Front Page 1975, The Sunshine Boys 1975, The Bad News Bears 1976, Casey's Shadow 1978, House Calls 1978. *Address:* 10100 Santa Monica Boulevard, Los Angeles, Calif. 90067.

MATTHES, Heinz; German engineer and politician; b. 7 June 1927, Oberkunnersdorf; Mem. Socialist Unity Party (SED) 1947-, mem. Cen., Cttee. 1963-; Chair. Workers' and Farmers' Inspectorate 1963-78, and mem. Council of Ministers 1963-; mem. Volkskammer 1963-; Vaterländische Verdienstorden in Silver, Orden Banner der Arbeit, and other decorations. *Address:* Ministerrat, Berlin, German Democratic Republic.

MATTHEWS, Sir Bryan Harold Cabot, Kt., C.B.E., F.R.S., SC.D.; British physiologist; b. 14 June 1906, Bristol; m. 1st Rachel Eckhard 1926, 2nd Audrey Wentworth Tynedale Stewart 1970; one s. two d.; one stepson three stepdaughters; ed. Clifton Coll. and King's Coll., Cambridge; Beit Memorial Fellow for Medical Research 1928-32; Fellow, King's Coll., Cambridge 1929-73, Life Fellow 1973; Asst. Dir. Physiological Research, Cambridge 1932-48; Reader in Experimental Physiology, Cambridge Univ. 1948-52, Prof. of Physiology 1952-73, Prof. Emer. 1973-; Consultant in Physiology to R.A.F. 1941-; Head of R.A.F. Physiological Laboratory 1940-44 and of the Inst. of Aviation Medicine from its foundation 1944-46; Vice-Pres.

Royal Soc. 1957 and 1958; Pres. Section I British Assn. 1961; Chair. Flying Personnel Research Cttee. R.A.F. 1967- (1978). *Leisure interests:* sailing, ocean racing. *Address:* King's College, Cambridge, England. *Telephone:* Cambridge 811227.

MATTHEWS, Denis, C.B.E., F.R.A.M.; British pianist; b. 27 Feb. 1919; Coventry, Warwickshire (now West Midlands); s. of Arthur Matthews and Elsie Culver; m. 1st Mira Howe 1941, one s. three d.; m. 2nd Brenda McDermott 1963, one s. one d.; ed. Warwick School and Royal Acad. of Music, London; first concerts, London 1939; since then numerous recitals and tours in Great Britain, U.S.A., Canada, World Tour 1964, Latin America 1968, 1970; teaching, lecturing; numerous recordings; Prof. of Music, Univ. of Newcastle upon Tyne 1971-; Hon. F.T.C.L. 1972; Hon. M.A. (Newcastle) 1971, Hon. D.Mus. (St. Andrews) 1973, (Hull) 1978; Cobbett Medal 1973. *Publications:* In Pursuit of Music 1966, Beethoven's Piano Sonatas 1967, Keyboard Music 1972, Brahams Piano Music 1978. *Leisure interests:* astronomy, 18th Century English furniture, reading. *Address:* Department of Music, University of Newcastle upon Tyne, England.

MATTHEWS, Horatio Keith, C.M.G., M.B.E.; retd. British diplomatist; b. 4 April 1917; m.; two d.; ed. Epsom Coll. and Gonville and Caius Coll., Cambridge; served in ICS in Madras Presidency 1940-47; joined foreign service 1948; First Sec., Lisbon 1949-51, Bucharest 1953-54; Imperial Defence Coll. 1955; Political Officer with Middle East Forces, Cyprus 1956-59; Counsellor, Canberra 1959-61; Political Adviser to Gen. Officer Commanding, Berlin 1961-64; Insp. Foreign Office 1964, Diplomatic Service 1965; Minister, Moscow 1966-67; High Commr. to Ghana 1968-70; Under-Sec.-Gen. for Admin. and Management, UN Secr. 1970-72; Asst. Under-Sec. of State, Ministry of Defence 1973-74; J.P., Isle of Wight 1975-. *Address:* Elm House, Bembridge, Isle of Wight, England. *Telephone:* Bembridge 2327.

MATTHEWS, Jessie, O.B.E.; British actress and singer; b. 11 March 1907, London; d. of George Ernest Matthews and Jane Townshend Matthews; m. 1st Henry Lytton, Jr. 1926 (divorced 1929); m. 2nd Sonnie Hale 1931 (divorced 1944); one adopted d.; m. 3rd Brian Lewis 1945 (divorced 1958); ed. Pulteney Street School for Girls, Soho, London; first London stage appearance at age 12 in Bluebell in Fairyland 1919; first appeared for C. B. Cochran in The Music Box Revue 1923; first New York appearance in André Charlot's Revue of 1924. *London stage appearances include:* One Dam Thing After Another 1927, This Year of Grace 1928, Wake up and Dream 1929, Ever Green 1930, Hold My Hand 1931, Sally Who? 1933, Come Out to Play 1940, Wild Rose 1942, Maid to Measure 1948, Sweethearts and Wives 1949, Sauce Tartare 1949-50, Five Finger Exercise 1960, A Share in the Sun 1966, The Water Babies 1973, The Jessie Matthews Show 1976, Lady Windermere's Fan (U.K. and Canada) 1978-79; *films include:* The Beloved Vagabond 1923, Straws in the Wind 1924, This England 1924, Out of the Blue 1931, There Goes the Bride 1932, The Man from Toronto 1932, The Midshipmaid 1932, The Good Companions 1933, Friday the Thirteenth 1933, Waltzes from Vienna 1933, Evergreen 1934, First a Girl 1935, It's Love Again 1936, Head over Heels 1937, Gangway 1937, Sailing Along 1938, Climbing High 1939, Forever and a Day 1943, Candles at Nine 1944, Victory Wedding (Dir.) 1944, Life is Nothing without Music 1947, Making the Grade 1947, Tom Thumb 1958, Hound of the Baskervilles 1978; *radio:* played Mrs. Dale in The Dales 1963-69; *TV:* The Nicest Man in the World 1976, Angels 1976, Another Opening, Another Show 1976, Nanny's Boy 1977, The Good Old Days 1977, Edward and Mrs. Simpson 1978. *Publication:* Over my Shoulder (autobiography) 1974. *Leisure interests:* drawing, gardening, motoring. *Address:* c/o CCA Personal Management Ltd., 29 Dawes Road, London, SW6 7DT, England. *Telephone:* 01-381 3551.

MATTHEWS, Sir Peter Alec, Kt., British business exec.; b. 21 Sept. 1922, Duncan, Vancouver Island, B.C., Canada; s. of Major Alec B. Matthews and Elsie Lazarus Barlow; m. Sheila D. Bunting 1946; four s. one d., ed. Shawnigan Lake School, Vancouver Island, and Oundle School; army service 1940-46; joined Stewarts and Lloyds Ltd. 1946, Dir. of Research and Tech. Devt. 1962-68; mem. Research and Devt., British Steel Corpn. 1968-70; Man. Dir. Vickers Ltd. 1970-; Dir. British Aircraft Corpn. (Holdings) 1971-77; Vice-Pres. Engineering Employers' Foundation 1971-; Council mem. Confederation of British Industry 1971-77; Deputy Chair. British Steel Corpn. 1973-76; mem. British Overseas Trade Board 1973-77; mem. Export Credits Advisory Council 1973-77; Dir. Lloyds Bank Ltd. 1974-, Chair. Cen. London Regional Board; mem. Nat. Research Devt. Corpn. 1974-; Dir. British Electric Traction Co. Ltd. 1976-; mem. Advisory Council on Applied Research and Devt. 1977-; Dir. Pegler-Hattersley Ltd. 1977-; Fellow, British Inst. of Management. *Leisure interests:* sailing, gardening. *Address:* Vickers Ltd., Vickers House, Millbank Tower, Millbank, London, S.W.1, England. *Telephone:* 01-828 7777.

MATTHEWS, Victor Collin; British company executive; b. 5 Dec. 1919, London; s. of A. Matthews and Mrs. J. Matthews; m. Joyce Geraldine Pilbeam 1942; one s.; ed. London; Chair., Trafalgar House Devt. Holdings Ltd. 1970-, The Cunard Steam-Ship Co. Ltd. 1971-, Eastern Int. Investment Trust Ltd. 1974-, Trafalgar Offshore Ltd. 1975-, The Ritz Hotel (London) Ltd. 1976-, Trafalgar House Construction Holdings Ltd. 1977-, Cunard Line Ltd. 1978-, Cunard Cruise Ships Ltd. 1978-, Fleet Publishing Int. Holdings Ltd. 1978–; Chair. and Chief Exec. Express Newspapers Ltd. 1977-; Vice-Chair., Export Group for the Constructional Industries 1977-; Dir. Paternoster Devt. Ltd. 1969-, Assoc. Container Transportation (Australia) Ltd. 1972-, Cunard Crusader World Travel Ltd. 1974-, Associated Communications Corpn. Ltd. 1977-, Racecourse Holdings Trust Ltd. 1977-; Group Man. Dir. Trafalgar House Ltd. 1968-, Deputy Chair. 1973-, Group Chief Exec. 1977-; Fellow, British Inst. of Man. 1978-. *Leisure interests:* horse-racing (owner and breeder), golf, cricket. *Address:* Trafalgar House Limited, 1 Berkeley Street, London, W1X 6NN, England. *Telephone:* 01-499 9020.

MATTHIAS, Bernd T., PH.D.; American physicist; b. 8 June 1918, Frankfurt am Main, Germany; s. of late Ludwig Matthias and late Marta Lipman Matthias; m. Joan Trapp 1950; ed. Eidgenössische Technische Hochschule, Zürich; scientific collaborator, Eidgenössische Technische Hochschule, Zürich 1942-47, Mass. Inst. of Technology 1947-48; Asst. Prof. Univ. of Chicago 1949-51; Prof. of Physics, Univ. of Calif., San Diego 1961-; Asst. Dir. Inst. for Pure and Applied Physical Sciences (U.C.S.D.) 1967-71, Dir. 1971-; Staff mem. Bell Labs., Murray Hill, N.J. 1948-; mem. Nat. Acad. of Sciences 1965-; Fellow, American Assn. for Advancement of Science 1965-, American Physical Soc., American Acad. of Arts and Sciences; Hon. D.Sc. (Lausanne) 1978; Research Corpn. Award 1962; John Price Wetherill Medal 1963; Industrial Research Man of the Year Oct. 1968; Olivier E. Buckley Solid State Physics Prize 1970, American Physical Soc. Int. Prize for New Materials 1979. *Publications:* 300 papers in int. and nat. scientific journals. *Leisure interest:* telepathy. *Address:* Department of Physics, University of California, San Diego, La Jolla, Calif. 92093, U.S.A. *Telephone:* (714) 452-4024.

MATTHIASEN, Niels; Danish politician; b. 1924, Copenhagen; served apprenticeship in clerical work; employee, Denmark Publishing House 1939-57; Sec. Social Democratic Union 1957, Gen. Sec. 1961-70; mem. Folketing 1960-73, 1975-; Minister for Cultural Affairs 1971-73, for Culture and Public Affairs Feb. 1975-77, for Culture and Environment 1977-78, for Culture Aug. 1978-; mem. Exec. Cttee., Fed. of Trade Unions 1962-67, mem. Bureau, Socialist Int. 1963-66; Co-founder and Sec. Danish Atlantic Assn. 1950-57; mem. many other cttees.; Editor Verden's Gang (Social-Democratic periodical) 1958-61, Ny Politik 1970-71. *Publications:* A Pioneer 1948; Co-editor: Ideas and Everyday Life 1968, Ends and Means 1969; political and literary articles in the press. *Leisure interests:* gardening, tennis. *Address:* Holbergsgade 30, 1057 Copenhagen, Denmark (Home). *Telephone:* (0113) 3007.

MATTHÖFER, Hans; German politician; b. 25 Sept. 1925, Bochum; m. Traute Mecklenburg 1951; ed. Univs. of Frankfurt/Main and Madison, Wis., U.S.A.; Mem. of Social Democratic Party (SPD) 1950-; Econ. Dept. IG Metall 1953, Head of Educ. and Training Dept. 1961; mem. OEEC Mission to Washington and Paris 1957-61; mem. Bundestag (Parl.) 1961-; mem. Bundestag Cttees. for Econ., Econ. Co-operation, Law, Foreign Affairs; Parl. Sec. of State, Ministry of Econ. Co-operation 1972; Minister for Research and Technology 1974-78, of Finance Feb. 1978-; Vice-Pres. Latin America Parliamentarians' Group; mem. hon. Presidium of German Section, Amnesty Int.; Pres. Deutsche Stiftung für Entwicklungsländer (Foundation for Overseas Devt.) 1971-73. *Publications:* Der Unterschied zwischen den Tariflöhnen und den Effektivverdiensten in der Metallindustrie der Bundesrepublik 1956, Technological Change in the Metal Industries 1961/62, Der Beitrag politischer Bildung zur Emanzipation der Arbeitnehmer—Materialien zur Frage des Bildungsurlaubs 1970, Streiks und Streikähnliche Formen des Kampfes der Arbeitnehmer im Kapitalismus 1971, Für eine menschliche Zukunft—Sozialdemokratische Forschungs—und Technologiepolitik 1976, Humanisierung der Arbeit und Produktivität in der Industriegesellschaft 1977, numerous articles on trades unions, research, technology and development politics. *Leisure interests:* chess, reading. *Address:* Bundesministerium der Finanzen, Graur rheindorferstrasse 108, 5300 Bonn, Federal Republic of Germany.

MATTILA, Olavi Johannes; Finnish engineer, diplomatist and politician; b. 24 Oct. 1918, Hyvinkää; s. of Juho Fredrik Mattila and Aino Sylvia Sihvonen; m. Ebba Sylvia Annikki Vestinen 1956; three c.; ed. Inst. of Technology and Helsinki School of Economics and Economic Sciences; commercial Rep., Finnish Embassy, Peking 1952-56, Commercial Attaché, Buenos Aires 1957-60; Chief of Bureau, Ministry of Foreign Affairs 1960; Head of Commercial Div., Ministry of Trade and Industry 1960-62; Head of Commercial Div., Ministry of Foreign Affairs 1962-64; Second Minister for Foreign Affairs 1963-64; Ministry of Trade and Industry 1963-64; Pres. and Chair. Valmet Oy 1965-73, Chair 1973-; Minister of Trade and Industry May-July 1970, of Foreign Trade July 1970-Oct. 1971, of Foreign Affairs Oct. 1971-Feb. 1972, June-Nov. 1975; Chair. Enso-Gutzeit Osakeyhtio 1973-; Commdr., Order of Lion of Finland, and other decorations. *Leisure interests:* tennis, fishing, trade politics. *Address:* Puistokatu 3.A.12, Helsinki, Finland.

MATULIS, Juozas Juozo; Soviet chemist; b. 19 March 1899, Tatkonis, Kupishkis District, Lithuania; s. of Juozas Kazimero Matulis and Urshule Nikodemo Tatoryte Matuliene; m. Adele Antano Malelaite; one s. one d.; ed. Kaunas State Univ.; teacher, Kaunas State Univ. 1928-40, Vilnius State Univ. 1940-44; Prorector Vilnius State Univ. 1944-; Dir. Inst. of Chemistry and Chemical Tech., Lithuanian Acad. of Sciences 1956-; mem. Lithuanian Acad. of Sciences 1941-, Pres. 1946-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-; mem. CPSU 1950-, Cen. Cttee. CP of Lithuania, Mandat Comm. Union of Soviets U.S.S.R. Supreme Soviet; Hero of Socialist Labour, Order of Lenin (four times), Red Banner of Labour (twice), Merited Worker of Science of Lithuanian S.S.R. and other decorations. *Leisure interests:* fishing and hunting. *Address:* Lithuanian S.S.R. Academy of Sciences, 3 Lenino Prospekt, Vilnius 232600, Lithuania, U.S.S.R.

MATUTE AUSEJO, Ana María; Spanish writer; b. 26 July 1925, Barcelona; d. of Facundo Matute and Mary Ausejo; m. 1952 (dissolved 1963); one s.; ed. "Damas Negras" French Nuns Coll.; collaborated on literary magazine Destino; Visiting Lecturer, Indiana Univ. 1965-66, Oklahoma Univ. 1969-; Writer-in-Residence, Univ. of Virginia 1978-79; [illegible] Hispanic Soc. of America; "Highly Commended Author", Hans Christian Andersen Jury, Lisbon 1972. *Publications:* Los Abel 1947, Fiesta Al Noroeste (Café Gijon Prize) 1952, Pequeño Teatro (Planeta Prize) 1954, Los niños tontos 1956, Los Hijos Muertos (Nat. Literary Prize and Critics Prize) 1959, Primera Memoria (Nadal Prize) 1959, Tres y un sueño 1961, Historias de la Artamila 1961, El Rio 1963, El Tiempo 1963, Los Soldados lloran de noche 1964 (Fastenrath Prize 1969), El Arrepentido y otras Narraciones 1967, Algunos Muchachos 1968, La Trampa 1969, La Torre Vigia 1971, Olvidado Rey Gudu 1974; *Children's books:* El Pais de la Pizarra 1956, Paulina 1961, El Sal Tamontes Verde 1961, Caballito Loco 1961, El Aprendiz 1961, Carnavalito 1961, El Polizon del "Ulises" (Lazarillo Prize) 1965. *Leisure interests:* painting, drawing, the cinema. *Address:* Urgel, 55, S/a. 2a, Barcelona 11, Spain. *Telephone:* 254-98-31.

MATVEYEV, Aleksey Nikolayevich; Soviet scientist; b. 22 March 1922, Moscow; s. of Nikolay Matveyev and Nadyezhda Metlova; m. E. Zamchalova 1951; two d.; ed. Moscow State Univ.; Senior Scientific Worker, Moscow State Univ. 1954-60, Prof. of Theoretical Physics 1960-64, Head of Chair. of Gen. Physics 1969-; Head of Dept. of Univs., Ministry of Higher Educ., R.S.F.S.R. 1960-62; Asst. Dir.-Gen. for Science, UNESCO 1964-69; Order of Red Banner (twice), Order of the Patriotic War, Order of Alexander Nevsky, Order of Red Banner of Labour, Order of Honour. *Publications:* Electrodynamics and Theory of Relativity 1964, Quantum Mechanics and Structure of Atoms 1965, Mechanics 1976. *Address:* Moscow State University, Moscow, U.S.S.R.

MAUDE, Angus Edmond Upton, T.D., M.A., M.P.; British politician and author; b. [illegible] Sept. 1912, London; s. of Col. Alan H. and Dorothy M. Maude; m. Barbara E. E. Sutcliffe; two s. two d.; ed. Rugby School and Oriel Coll., Oxford; financial journalist 1933-39; war service (prisoner of war 3½ years) 1939-45; Deputy Dir. Political and Economic Planning 1949-50; Conservative Mem. of Parl. 1950-58, 1963-; Paymaster Gen. May 1979-; Dir. Conservative Political Centre 1951-55; Editor The Sydney Morning Herald 1958-61; Deputy Chair. Conservative Party 1975-79. Chair. Conservative Party Research Dept. 1975-79. *Publications:* The English Middle Classes (with Roy Lewis) 1949, Professional People (with Roy Lewis) 1952, Biography of a Nation (with Enoch Powell) 1956, and editor of One Nation 1950 and Change is our Ally 1954 (booklets on social policy by nine M.P.s), Good Learning 1964, South Asia 1966, The Common Problem 1969. *Address:* South Newington House, nr. Banbury, Oxon., England. *Telephone:* 01-219 4467 (Office).

MAUDE, Evan Walter, C.B.; British civil servant (retd.); b. 11 Feb. 1919, London; s. of late Sir E. John Maude, K.C.B., K.B.E.; m. Jennifer Robinson Bulmer 1949; three d.; ed. Rugby School, and New Coll., Oxford; R.N.V.R. (Fleet Air Arm) 1940-45; H.M. Treasury 1946; Asst. Private Sec. to Chancellor of Exchequer and Econ. Sec. 1947-48; Private Sec. to Sec. of State for Coordination of Transport, Fuel and Power 1951-53; Principal Private Sec. to Chancellor of Exchequer 1956-58; Asst., then Deputy Under-Sec. of State, Dept. of Econ. Affairs 1964-67; Econ. Minister British Embassy, Wash. 1967-69; Third Sec. Treasury 1969-70; Deputy Sec. Ministry of Agric., Fisheries and Food 1970-79; Exec. Dir. IBRD, IFC, IDA Aug. 1967-69; Exec. Dir. IMF 1967-69. *Leisure interests:* sailing, music. *Address:* 5 Downshire Hill, London, N.W.3, England.

MAULNIER, Thierry (*pseudonym* of Jacques Louis André Talagrand); French writer; b. 1 Oct. 1909; m. Marcelle Tassencourt 1944; ed. Lycée Louis-le-Grand, Paris and Ecole Normale Supérieure; journalist on l'Action française, later Figaro 1930-; playwright 1942-; dramatic critic Combat and La revue de Paris; founded (with François Mauriac) La table ronde; mem. Académie Française 1964-; Pres. Assen. France-Etats-Unis 1967-; Grand Prix de Litterature de l'Académie Française 1959, Prix Pelman de la presse 1959. Commdr., Légion d'honneur. *Plays:* Antigone 1944, La course des rois 1947, Jeanne et les juges 1949, Le profanateur 1952, Oedipe-Roi (adaptation) 1952, La maison de la nuit 1953, La condition humaine (adaptation) 1954, Procès à Jésus (adaptation) 1958, Le Sexe et le Néant 1960, Signe du feu (adaptation) 1960. *Prose works inc:* La crise est dans l'homme 1932, Nietzsche 1933, Racine 1934, Introduction à la poésie française 1939, Violence et conscience 1945, La face de meduse du communisme 1952, Cette Grèce où nous sommes nés 1965, La défaite d'Hannibal, La ville au fond de la mer 1967, Lettre aux Américains 1968, L'honneur d'être juif 1970 (with G. Prouteau), Le sens des mots 1976, Les vaches sacrées. *Address:* 3 rue Yves-Carriou, 92 Marnes-la-Coquette, France.

MAUMENEE, Alfred Edward, M.D.; American professor of ophthalmology; b. 19 Sept. 1913, Mobile, Ala.; s. of Alfred Edward Maumenee and Lulie Radcliff; m. 1st Anne Elizabeth Gunnis 1949, one s. [illegible] d.; m. 2nd Irene Hussels 1972, two s.; ed. Philips High School, Birmingham, Alabama Univ. and Medical School, Cornell Univ. School of Medicine; served to Lieut. in U.S. Navy 1944-46; Assoc. Prof. of Ophthalmology, Johns Hopkins Univ. 1946-48; Prof. of Surgery in Ophthalmology, Stanford Univ. 1948-55; Prof. of Ophthalmology, Johns Hopkins Univ. 1955; Visiting Prof. to numerous univs. 1958-; Assoc. Ophthalmologist, Johns Hopkins Hosp. 1946-48; Clinical Staff, Mount Zion Hosp. and Children's Hosp., San Francisco 1949-55; Consultant in Ophthalmology, San Francisco Hosp. and Laguna Honda Hosp. 1948-55; Civilian Consultant, Letterman Army Hosp. and U.S. Naval Hosp., Oakland, Calif. 1948-55; Chair., Div. of Ophthalmology, Stanford Univ. Hosp. 1948-55; Ophthalmologist-in-Chief, Johns Hopkins Hosp. 1955-; Consultant, Baltimore City Hospitals 1959-; Civilian Consultant to Surgeon-Gen., U.S. Navy for Postgraduate Medical Training 1963-; Consultant, U.S. Public Health Service Hosp., Wyman Park 1965-; Nat. Acad. of Sciences 1974-; mem. and hon. mem. numerous medical socs.; mem. Editorial Staff, American Journal of Ophthalmology 1955-, Pres. Board Dirs. 1975-; Assoc. Editor A.M.A. Archives of Ophthalmology 1952-54, Highlights of Ophthalmology 1954, Investigative Ophthalmology 1963-74; Corresp. editor, Transplantation Bulletin 1953-57; mem. Editorial Advisory Board, Audio-Digest Ophthalmology 1963-; Hon. Sc.D. (Illinois) 1974; Hon. F.R.C.S. 1971; numerous awards including The Howe Medal, American Ophthalmology Soc. 1969, Francis I. Proctor Research Medal 1972, John M. McLean Gold Medal Award 1976, Distinguished Service Award, U.S. Navy Dept. 1977. *Publications:* Co-Author: Ophthalmic Pathology. An Atlas and Textbook 1952, Atlas of Strabismus 1967, Second Edn. 1973; Editor: First and Second Symposia on Uveitis, Council for Research in Glaucoma and Allied Diseases 1959, 1961; Co-Editor: Progress in Ophthalmology and Otolaryngology 1952, Immunopathology of Uveitis 1964; 196 scientific articles. *Leisure interests:* golf, tennis, fishing. *Address:* The Wilmer Ophthalmological Institute, Johns Hopkins Hospital, Baltimore, Md. 21205, U.S.A. *Telephone:* (301) 955-5296.

MAURER, Georg, M.D.; German surgeon; b. 29 May 1909, Munich; m.; two s. two d.; ed. Univ. of Munich; Surgical Asst., later Chief Asst., Univ. Clinic of Surgery, Munich 1933-45; Surgeon-in-Chief Hospital, Munich-Perlach 1946-53; Surgeon-in-Chief Hospital Rechts der Isar, Munich 1953-67, Medical Dir. 1959-; Prof. Extraordinary, Univ. of Munich 1948; Prof., Technical Univ., Munich 1967-. Dean, Medical Faculty 1967; City Councillor, Munich; Congress Sec. German Soc. of Surgery; Regional Pres. German Assen. of Medical Dirs.; Bayer, Verdienstorden 1969, Hon. C.B.E.

Publications: Morbus Fraenkel 1944, Problem of salt-water balance in surgery 1958, Tetanus prophylaxis 1959, History of Surgery in Bavaria 1960, Pancreatitis 1960, Modern Shock Treatment 1965, Weather Conditions and Surgery 1966, Indications for Conservative and Operative Fracture Treatment 1968, Neurotraumatology 1969; over 100 articles. *Address:* 8000 Munich-Geiselgasteig, Gabriel-von-Seidl-Strasse 32, Federal Republic of Germany.

MAURER, Ion Gheorghe, LL.D., D.JUR.; Romanian jurist and politician; b. 23 Sept. 1902, Bucharest; ed. Craiova Military School and Bucharest Univ.; joined Romanian Communist Party 1936; imprisoned in concentration camp for political activities; Under Sec. of State for Transport 1944-46, Ministry of Nat. Economy 1946-47; mem. Cen. Cttee. Romanian Workers' Party (now Romanian Communist Party) 1945-74, Political Bureau of Cen. Cttee. 1960-65, Exec. Political Cttee. of Cen. Cttee. 1965-74, Perm. Presidium 1965-74; Deputy Minister of Industry and Trade 1948; Minister for Foreign Affairs 1957-58; mem. Grand Nat. Assembly 1948-75; Chair. Presidium Grand Nat. Assembly (Head of State) 1958-61; Chair. Council of Ministers 1961-74; mem. Defence Council of Romania 1969-74; mem. Romanian Acad. 1955-, Acad. of Social and Political Sciences 1970-; fmr. Dir. Inst. of Juridical Research 1954-58; Hero of Socialist Labour 1962, Order "Victoria Socialismului" 1971, Hero of Socialist Republic of Romania 1972, etc. *Address:* c/o Partidul Comunist Român, Bucharest, Romania.

MAURIAC, Claude, D.IUR.; French writer; b. 25 April 1914; s. of late François Mauriac; ed. Lycée Janson-de-Sailly; Sec. to Gen. de Gaulle 1944-49; Film Critic Figaro Littéraire; weekly literary column "La Vie des Lettres" in Le Figaro; Contrib. to L'Express 1972-; Admin. Soc. Figaro-Edition 1972-; Prix Sainte-Beuve for André Breton 1949, Prix Médicis for Le dîner en ville 1959. *Publications Non-fiction:* Aimer Balzac, Malraux ou le mal du héros, André Breton, Marcel Proust par lui-même, Conversation avec André Gide, Hommes et idées d'aujourd'hui, La littérature contemporaine, Un autre de Gaulle 1944-54 1971; *Novels:* Toutes les femmes sont fatales 1957, Le dîner en ville 1959, La Marquise sortit à cinq heures 1951, L'Agrandissement 1963, l'Oubli 1966; *Plays:* La conversation 1964, Ici, maintenant 1971; *Memoirs:* Le temps immobile 1974, Les espaces imaginaires 1975, Et comme l'espérance est violente 1976. *Address:* 24 Quai de Béthune, 75004 Paris, France.

MAURICE-BOKANOWSKI, Michel; French politician; b. 6 Nov. 1912; ed. Lycée Condorcet, Paris; fmr. Sec.-Gen., Paris Region Rassemblement du Peuple Français (RPF); Dep. from Seine (5th Div.) 1951-58, elected U.N.R. Dep. from Bois-Colombes (Asnières) 1958; Sec. of State for the Interior Jan. 1959-Feb. 1960; Minister of Posts and Telecommunications Feb. 1960-April 1962; Minister of Industry April 1962-66; Senator for Hauts-de-Seine Oct. 1968-; Mayor of Asnières 1959-; Dir. of several companies; Commdr. Légion d'honneur, Compagnon de la Libération, Croix de guerre. *Address:* 40 quai des Célestins, Paris 4e, France.

MAURIN, Air Chief Marshal François Louis; French air force officer; b. 9 March 1918, Paris; s. of Gen. Louis Maurin and Anne-Marie Bigault; m. Danielle de Rousiers 1955; one s. two d.; ed. Lycées Condorcet, Saint-Louis in Paris, Ecole supérieure de guerre, Ecole de l'air; Pilot Officer 1939, Flying Officer 1941, Flight Lieut. 1945; Bomber Sqn., later Transport Sqn. in Indochina; Commdt., GTLA 1950; Wing-Commdr. 1954; Commdt. annexe, Centre d'expérience aérienne militaire, Brétigny 1956-57, Ecole supérieure de guerre 1957-59; Head of Dept. of Gen. Studies, Air Force Gen. Command 1960-63; Group Captain Commdt. Mont de Marsan Air Force Base and Centre d'expérience aérienne mil. 1960-63; Air Cdre., Deputy Chief of Planning, Air Force Gen. Command 1963-66; Air Vice-Marshal, Commdt. 3rd Air Force Region, Bordeaux 1966-67; Air Marshal in Command of Air Defence 1968-69; Chief of Air Force Staff 1970-71; Chief of Joint Gen. Staff 1971-75; mem. Supreme Council of Air Force 1971-75, Atomic Energy Cttee. 1971-75; Conseiller d'Etat Oct. 1975-; Grand Officier, Légion d'honneur, Croix de guerre, Aeronautical Medal. *Address:* Palais Royal, Paris 1er; 3 rue Frédéric Bastiat, 75008 Paris, France (Home).

MAURSTAD, Toralv; Norwegian actor and theatre director; b. 24 Nov. 1926, Oslo; s. of Alfred and Tordis Maurstad; m. Eva Henning 1956; one s.; ed. Universitet i Uppsala and Royal Acad. of Dramatic Art, London; début in Trondheim 1947; Oslo Nye Teater 1951; Oslo Nat. Theatre 1954; Man. Dir. Oslo Nye Teater (Oslo Municipal Theatre) 1967-78; Man-Dir. Nat. Theatre 1978-; Oslo Critics Award. *Plays acted in or directed include:* Young Woodley 1949, Pal Joey 1952, Peer Gynt 1954, Long Day's Journey 1962, Teenage Love 1963, Hamlet 1964, Arturo Ui (in Bremen, Germany) 1965, Brand (Ibsen) 1966, Of Love Remembered (New York) 1967, Cabaret 1968; *Films:* Line 1960, Kalde Spor 1962, Song of Norway 1970. *Leisure interests:* skiing, hunting, fishing. *Address:* Nationaltheatret, Storfingsgt. 15, Oslo 1, Norway.

MAVROMIHALIS, Stylianos; Greek judge; b. 1900; ed. Univs. of Athens, Munich and Zurich; Judge 1923-, Pres. of the Areopagus (Supreme Court) 1963-68; Prime Minister Sept.-Nov. 1963. *Address:* Athens, Greece.

MAVROS, George, LL.D.; Greek lawyer and politician; b. 1909, Castellorizon; m. 1953; one s.; ed. Athens and Berlin Univs.; Lawyer Athens 1932-; Asst. Prof. of Int. Law, Univ. of Athens 1937-; M.P. 1946-; Under-Sec. of State for Justice 1945-46, Minister of Justice 1946; Minister of National Econ. (Trade and Industry) 1949-50, of Finance 1951, of Defence 1952; Gov. for Greece to IBRD 1949-52; Minister of Co-ordination 1963-64; Gov. Nat. Bank of Greece 1964-66; under house arrest April-Oct. 1968; fmr. Pres. Centre Union Party, Pres. Centre Union-New Forces Party 1974-78; arrested and deported to Yiaros island March 1974, released May 1974; Deputy Prime Minister, Minister of Foreign Affairs July-Oct. 1974. *Publications:* Walker's Private International Law 1929, Problems in the Differentiation of Real Property and Chattels in the International Law on Wills 1936, Naval Privileges in International Law 1937. *Leisure interests:* Classical music, golf, swimming. *Address:* 8 Akadimias Street, Athens 134, Greece.

MAXIMOS V HAKIM (fmrly. **Archbishop George S. Hakim**), D.D.; Lebanese ecclesiastic; b. 18 May 1908, Tanta, Egypt; s. of Salim Hakim and Eugenie Gazaleh; ed. St. Louis School, Tanta, Holy Family Jesuit School, Cairo and St. Anne Seminary, Jerusalem; Teacher Patriarchal School, Beirut 1930-31; Rector and Principal Patriarchal School, Cairo 1931-43; Archbishop of Acre, Haifa, Nazareth and all Galilee 1943-67; elected Greek Catholic Patriarch of Antioch and all the East, Alexandria and Jerusalem Nov. 1967; founded Le Lien (French) Cairo 1936, Ar-Rabita (Arabic) Haifa 1943; Commdr. Légion d'honneur; Dr. h.c. (Laval Univ., Canada, Algiers Univ. and many U.S. univs.). *Publications:* Pages d'Evangile lues ▪ Galilée (trans. into English, Dutch and Spanish) 1954. *Address:* Greek Catholic Patriarchate, P.O. Box 50076, Beirut, Lebanon; P.O. Box 22249, Damascus, Syrian Arab Republic; Daher 16, Cairo, Arab Republic of Egypt. *Telephone:* (Beirut) 413111; (Damascus) 114568; (Cairo) 904697.

MAXIMOV (see Maksimov).

MAXWELL, (Ian) Robert, M.C.; British publisher and politician; b. 10 June 1923; s. of Michael and Ann Hoch; m. Elisabeth Meynard 1945; three s. four d.; self-educated; served Second World War 1940-45; German Section of Foreign Office (Head of Press Section, Berlin) 1945-47; Chair. Robert Maxwell & Co. Ltd.,1948-; Publisher and Chair. Board Pergamon Press, Oxford and London 1949-69, 1974-, New York 1949-, Aberdeen Univ. Press 1978-; Dir. Gauthier-Villars (Publishers) Paris 1961-69; Chair. Labour Nat. Fund Raising Foundation 1960-69; Chair. Labour Working Party ▪ Science, Govt. and Industry 1963-64; M.P. for Buckingham 1964-70; mem. Council of Europe, Vice-Chair. Cttee. on Science and Technology 1968; Treasurer Round House Trust Ltd. (fmrly. Centre 42) 1965-; Kennedy Fellow, J. F. Kennedy School of Govt., Harvard Univ. 1971; Hon. mem. Int. Acad. of Astronautics 1974-; Co-produced films Don Giovanni (Mozart), Salzburg Festival 1954, Bolshoi Ballet 1957, Swan Lake 1968; Editor Information U.S.S.R. 1963, The Economics of Nuclear Power 1965, Author Public Sector Purchasing (Report) 1968, Joint Author Man Alive 1968. *Leisure interests:* chess, mountain-climbing. *Address:* Headington Hill Hall, Oxford, England. *Telephone:* Oxford 64881.

MAXWELL DAVIES, Peter (see Davies, Peter Maxwell).

MAY, Henry Leonard James; New Zealand politician; b. 13 April 1912, Petone; s. of James May; m. 1st Mary Anne McNeill 1940 (deceased), two s. two d.; m. 2nd Doreen E. Langton 1970; ed. Petone Convent, Petone and Wellington Technical Schools; mem. Parl. for Onslow 1954-57, for Porirua 1957-69, for Western Hutt 1969-75; Minister of Local Govt., of Internal Affairs, of Civil Defence, Minister in charge of Valuation Dept. 1972-75; Chair. Hutt Valley Electric Power Board 1950-54. *Leisure interest:* photography. *Address:* 16 Dowse Drive, Lower Hutt, New Zealand.

MAY, William Frederick, B.S., DR.ENG.; American business executive; b. 25 Oct. 1915, Chicago; s. of Arthur W. and Florence Hartwick May; m. Kathleen Thompson 1947; two d.; ed. Oak Park and River Forest High School, Oak Park, Illinois, Univ. of Rochester, N.Y., and Harvard Business School; Exec. Dept., American Can Co. 1959, Corpn. Vice-Pres. and General Man. Canco Div. 1959-62, Corpn. Vice-Pres. and Gen. Manager (Planning and Development) 1962-64, Corpn. Exec. Vice-Pres. (Admin.) 1964-65, Vice-Chair. 1965, Chair. and Chief Exec. Officer 1965-; Dir. Lincoln Center, Johns-Manville Corpn., Bankers Trust, C.E.D., Engelhard Minerals and Chemicals Corpn., Business Int. Corpn., American Paper Inst., Nat. Council on Crime and Delinquency, The New

York Times; Trustee Univ. of Rochester, Polytechnic Inst. of New York, Presbyterian Hospital in City of New York, American Museum of Natural History, Robert A. Taft Inst. of Govt.; Overseer, Dartmouth Coll. *Address:* American Lane, Greenwich, Conn. 06830, U.S.A. (Office). *Telephone:* 203-552-2011.

MAYALL, Nicholas Ulrich, PH.D.; American astronomer; b. 9 May 1906, Moline, Ill.; s. of Edwin L. Mayall, Sr. and Olive Ulrich; m. Kathleen Czarina Boxall 1934; one s. one d.; ed. Univ. of Calif. at Berkeley; Teaching Fellow in Astronomy, Univ. of Calif. at Berkeley 1928-29, Martin Kellog Fellow in Astronomy 1931-33; Asst. (Computer) Mount Wilson Observatory, Pasadena, Calif. 1929-31; Observing Asst. Lick Observatory 1933-35, Asst. Astronomer 1935-42, Assoc. Astronomer 1945-49, Astronomer 1949-60; Staff mem. at Radiation Laboratory, Mass. Inst. of Technology 1942-43; Resident Assoc., Calif. Inst. of Technology, Pasadena 1943-45; Observatory Dir. Kitt Peak Nat. Observatory, Tucson, Ariz. 1969-71; mem. American Astronomical Soc., American Acad. of Arts and Sciences, American Philosophical Soc., Astronomical Soc. of the Pacific (Pres. 1942, 1958-59, Dir. 1956-62), Nat. Acad. of Sciences (Chair. Astronomy Section 1958-61, Draper Fund Cttee. 1959-62, and on Space Science Board 1964-70), Int. Astronomical Union (Pres. Comm. 1928-, Extragalactic Nebulae 1958-61), Royal Astronomical Soc., London; corresp. mem. Acad. des Sciences, Institut de France, Paris. *Publications:* Numerous scientific papers including The Radial Velocities of Fifty Globular Star Clusters (Astrophysical Journal, Vol. 104) 1946, Redshifts and Magnitudes of Extragalactic Nebulae (with M. L. Humason and A. R. Sandage, in Astronomical Journal, Vol. 61) 1956, Photoelectric Photometry of Galactic and Extragalactic Star Clusters (with G. E. Kron, in Astronomical Journal, Vol. 65) 1960, The Expansion of Clusters of Galaxies (with J. L. Lovasich and others, in Proceedings of the 4th Berkeley Symposium on Mathematical Statistics, Vol. 3) 1962. *Leisure interests:* music, reading, photography. *Address:* Kitt Peak National Observatory, 950 North Cherry Avenue, P.O. Box 26732, Tucson, Ariz. 85726, U.S.A. *Telephone:* (602) 327-5511.

MAYBRAY-KING, Baron (Life Peer), cr. 1971, of the City of Southampton; **Rt. Hon. Horace Maybray King,** PH.D., LL.D., D.C.L., F.K.C.; British politician; b. 25 May 1901, Grangetown; s. of John William King and Margaret Ann King; m. 1st Victoria Harris 1924 (died 1966), 2nd Una Porter 1967 (died 1978); one d.; ed. Stockton Secondary School and King's Coll., Univ. of London; Head of English Dept., Taunton's School, Southampton 1925-46; Headmaster Regents Park School, Southampton 1947-50; M.P. 1950-71; Speaker's Panel. Chair. 1953-64; Chair. of Ways and Means 1964-65; Speaker of House of Commons 1965-71; Deputy Speaker of House of Lords 1971-; several hon. degrees. *Publications:* Selections from Macaulay 1933, Selections from Homer 1940, Selections from Sherlock Holmes 1948, Parliament and Freedom, 1951 State Crimes 1967, Before Hansard 1968, Songs in the Night 1968, The Speaker and Parliament 1973. *Leisure interests:* music and the entertainment of children. *Address:* 37 Manor Farm Road, Southampton, Hants., England. *Telephone:* Southampton 55884.

MAYDAR, Damdinjavyn; Mongolian politician; b. 15 Aug. 1916; ed. Moscow and Novosibirsk; Chair. State Planning Comm. 1947-54; Deputy Chair. Council of Ministers 1954-72; First Deputy Chair. Council of Ministers 1972-; Chair. State Construction Cttee. 1959-63, 1967-68; Deputy Chair. State Cttee. for Foreign Econ. Relations 1963-67; Chair State Cttee. for Science and Tech. 1971-; Chair. Soc. for Protection of Nature and the Environment 1975-; Deputy Chair. State Rural Construction Comm. 1971-; Deputy to People's Great Hural (Assembly); cand. mem. Political Bureau of Mongolian People's Revolutionary Party (MPRP) Cen. Cttee. 1961-66, mem. Political Bureau 1958-61, 1966-. *Address:* Government Palace, Ulan Bator, Mongolia.

MAYER, Albert, A.B., B.S., IN C.E.; American architect and town planner; b. 29 Dec. 1897, N.Y.C.; s. of Bernhard and Sophia Mayer; m. 1st Phyllis Carter 1925, one s. [illegible] d.; m. 2nd Marion Mayer 1960 (died 1972); m. 3rd Magda Pastor 1975; ed. Columbia Univ. and Mass. Inst. of Technology; Supt., Gen. Supt., Gen. Man. and Pres. J. H. Taylor Construction Co. Inc. 1922-34; architectural and planning practice 1934-, mem. of Mayer and Whittlesey and of Mayer, Whittlesey and Glass 1937-59; Consultant U.S. Housing Admin. N.Y. State Housing Div. 1935-38, United Provinces (Govt. of India) 1946-60, U.S. Public Housing Admin. 1962-; Fellow American Inst. of Architects, Soc. for Applied Anthropology 1967; Visiting Prof. Columbia Univ. 1969-70; mem. American Soc. of Civil Engineers, American Inst. of Town Planning, American Inst. of Architects Cttee. on Urban Design; numerous awards and medals; designs incl. New City of Kitimat (B.C.), New City of Ashdod, Israel (consultant), New York City New School for Social Research, New Delhi Regional Plan, New City of Maumelle, Arkansas. *Publications:* Pilot Project India 1959, papers and lectures, incl. Israel Plans 1959, Some Implications of the Delhi Plan 1960, Social Analysis and National Economic Planning in India 1961, The Urgent Future; People, Housing, City, Region 1966, Greenbelt Towns Revisited, Town Planning in the United States 1970; It's Not Just the Cities (articles) 1969-70; contributor to Encyclopaedia of Urban Planning 1973. *Address:* 235 Park Avenue, New York, N.Y., 10003 (Office); 240 Central Park South, New York, N.Y., U.S.A. (Home). *Telephone:* (212) 260-3333 (Office); (212) 489-0014 (Home).

MAYER, Hans; German university professor; b. 19 March 1907; ed. Univs. of Cologne, Bonn, Berlin, and Graduate Inst. of Int. Studies, Geneva; emigrated from Germany 1933; research at Int. Inst. of Social Research, New York, and Graduate Inst. of Int. Studies, Geneva 1933-40; literary and dramatic critic in Switzerland 1939-45; Chief Editor Frankfurt Radio 1945-47; Lecturer in Sociology and the History of Culture, Akad. der Arbeit, Frankfurt 1947-48; Prof. of History of Culture, Univ. of Leipzig 1948-50, Prof. of the History of German Literature 1950-64; Prof. History of German Literature Technical University, Hanover 1965-76; Prof. and Dir. of Inst. for the History of German Literature 1955; mem. Exec. Deutsche Goethe-Gesellschaft, Deutsche Schiller-Gesellschaft, Deutsche Schiller-Stiftung, PEN Club; Hon. Prof. Univ. of Tübingen 1975; Hon. mem. Modern Languages Assn. of America 1975; Humane Letters D. h.c., (Wisconsin) 1972, D. Phil. h.c. (Brussels) 1969; German National Prize for Science 1955; Literaturpreis der deutschen Kritiker 1965, Medal of Collège de France 1974. *Publications:* Von der dritten zur vierten Republik: Geistige Strömungen in Frankreich 1939-1945 1945, Georg Büchner und seine Zeit 1946, Thomas Mann, Werk und Entwicklung 1950, Studien zur deutschen Literaturgeschichte 1954, Schiller und die Nation 1954, Deutsche Literatur und Weltliteratur: Reden und Aufsätze 1957, Richard Wagner 1959, Von Lessing bis Thomas Mann 1959, Meisterwerke deutscher Literaturkritik, Vol. I 1954, Vol. II 1956 (editor), Bertolt Brecht und die Tradition 1961, Aragon, Die Karwoche (translation from the French), Heinrich von Kleist, Der geschichtliche Augenblick 1962, Ansichten zur Literatur der Zeit 1962, Dürrenmatt und Frisch, Anmerkungen 1963, Zur deutschen Klassik und Romantik 1963, Anmerkungen zu Brecht 1965, Anmerkungen zu Richard Wagner 1966, Grosse deutsche Verrisse (editor) 1967, Zur deutschen Literatur der Zeit: Zusammenhänge, Schriftsteller, Bücher 1967, Das Geschehen und das Schweigen, Aspekte der Literatur 1969, Der Repräsentant und der Märtyrer, Konstellationen der Literatur 1971, Brecht in der Geschichte 1971, Goethe, Ein Versuch über den Erfolg 1974, Aussenseiter 1975, Richard Wagner in Bayreuth 1976. *Address:* Neckarhelde 41, 74 Tübingen, Federal Republic of Germany.

MAYER, John Anton, B.S., M.B.A.; American banker; b. 30 July 1909, Terre Haute, Ind.; m. Effie Fleming Disston 1937; three s.; ed. Univ. of Pennsylvania; joined Penn Mutual Life Insurance Co. 1933, Asst. to Vice-Pres. and Comptroller 1934-35, Asst. Sec. 1936-39, Asst. to Pres. 1939-47, Sec. 1947-49; Pres. and Dir. Reliance Life Insurance Co. 1949-51; Vice-Pres. Mellon Nat. Bank and Trust Co. (now Mellon Bank, N.A.) 1951-57, Exec. Vice-Pres. 1957-59, Pres. 1959-67, Dir. 1959-, Chief Exec. Officer 1963-74, Chair. of Board 1967-74; Chair. of Board and Chief Exec. Officer, Mellon Nat. Corpn. 1972-74, Dir. 1974-; Dir. Aluminium Co. of America, H. J. Heinz Co., PPG Industries Inc., Gen. Motors Corpn., Norfolk & Western Railway Co.; official of other companies and orgs. *Address:* 3955 Bigelow Boulevard, Pittsburgh, Pa. 15213, U.S.A.

MAYER, Joseph E., B.S., PH.D.; American chemical physicist; b. 5 Feb. 1904, New York City; s. of Joseph Mayer and Catherine Proescher; m. Maria Goeppert 1930, (deceased) 2nd Margaret Gannon Griffin 1972; one s. one d.; ed. Calif. Inst. of Technology and Univ. of Calif; Asst. Dept. of Chemistry Univ. of Calif 1927-28; Int. Educ. Board Fellow, Göttingen, Germany 1929-30; Assoc. Chemistry Johns Hopkins Univ. 1930-34, Assoc. Prof. 1934-39; Assoc. Prof. Chemistry, Columbia Univ. 1939-45; Prof. of Chemistry, Inst. of Nuclear Studies, Univ. of Chicago 1945-55; Carl William Eisendraht Prof. of Chemistry, Enrico Fermi Inst. of Nuclear Studies, Univ. of Chicago 1955-60; Prof. Chemistry, Univ. of Calif. at La Jolla 1960-73, Emer Prof. 1973-; Chair. Dept. of Chemistry 1964-67; Consultant, Aberdeen Proving Ground, Ordnance Dept. U.S. Army 1942-, Los Alamos Scientific Laboratory; Editor Journal of Chemical Physics 1941-52; mem. Nat. Acad. of Sciences and New York Acad. of Sciences; Corresp. mem. Heidelberg Akad. der Wissenschaften; mem. American Chemical Soc., American Physical Soc. (Pres. 1973), Faraday Soc., American Philosophical Soc., American Acad. of Arts and Sciences; Chair. Comm. on Thermodynamic and Statistical Mechanics; Vice-Pres. Cttee. of Constants, Int. Union of Pure and Applied Physics, Scientific Cttee.

Solvay Inst., Brussels; Dr. h.c. (Univ. Libre de Bruxelles); Fellow, American Inst. of Chemists; G. N. Lewis Medal and Peter Debye Prize (American Chemical Soc.); Chandler Medal (Columbia); Kirkwood Medal (Yale); James Flack Norris Award of American Chemical Soc. *Publications:* Statistical Mechanics (with M. G. Mayer) 1940, Theory of Real Gases (Handbuch der Physik) 1958, Phase Transformations in Solids (with others) 1951, Equilibrium Statistical Mechanics 1970; scientific articles. *Leisure interests:* gardening, travel, archaeology. *Address:* 2345 Via Siena, La Jolla, Calif. 92037, U.S.A. *Telephone:* 714-459-3030.

MAYER-KUCKUK, Theo, DR.RER.NAT.; German nuclear physicist; b. 10 May 1927, Rastatt; m. Marianne Meyer 1965; two s.; ed. Univ. of Heidelberg; Research Fellow, Max Planck Institut für Kernphysik, Heidelberg 1953-59, Scientific mem. 1964; Research Fellow, California Inst. of Tech., Pasadena 1960-61; Dozent, Univ. of Heidelberg 1962, Tech. Univ. Munich 1963; Prof. of Physics, Univ. of Bonn 1965-, Dir. Inst. of Nuclear and Radiation Physics 1965-; Röntgenpreis, Univ. of Giessen 1964. *Publications:* Physik der Atomkerne (2nd edn.) 1974, Atomphysik 1977, research papers and review articles in physics journals. *Leisure interest:* sailing. *Address:* Institut für Strahlen- und Kernphysik der Universität Bonn, Nussallee 14, 5300 Bonn (Office); Böckingstrasse 9, D-534 Bad Honnef, Federal Republic of Germany (Home). *Telephone:* (02221) 732201 (Office); (02224) 5140 (Home).

MAYHEW, Christopher Paget, M.A.; British politician, writer and broadcaster; b. 12 June 1915, London; s. of Sir Basil Mayhew, K.B.E. and Dorothea Mary Paget; m. Cicely Elizabeth Ludlam 1949; two s. two d.; ed. Haileybury Coll. and Christ Church, Oxford; M.P. for South Norfolk 1945-50; Parl. Private Sec. to Lord Pres. of Council 1945-46; Under-Sec. of State for Foreign Affairs Oct. 1946-50; M.P. for Woolwich East 1951-74; Minister of Defence for the Navy 1964-66; Chair. ANAF Foundation, Middle East Int. Publrs. Ltd., Liberal Action Group on Electoral Reform, Liberal European Action Group; Labour until 1974; joined Liberal Party 1974. *Publications:* Planned Investment 1939, Those in Favour 1951, Men Seeking God 1955, Commercial Television: What is to be Done? 1959, Co-existence Plus 1962, Britain's Role Tomorrow 1967, Party Games 1969, Europe—The Case for Going In (jointly) 1971, Publish It Not ... (with Michael Adams) 1975, The Disillusioned Voter's Guide to Electoral Reform 1976. *Leisure interests:* music, golf. *Address:* 39 Wool Road, Wimbledon, London, S.W.20, England. *Telephone:* 01-946 3460 (Home).

MAYNEORD, William Valentine, C.B.E., F.R.S.; British medical physicist; b. 14 Feb. 1902; s. of the late Walter Mayneord; m. Audrey Morrell 1963; ed. Prince Henry's Grammar School, Evesham and Birmingham Univ.; Chair. Int. Comm. on Radiological Units. 1950-53, Medical Research Council Cttee. on Protection against Ionizing Radiations 1951-58; mem. Int. Comm. on Radiological Protection 1950-58, U.K. Del. to UN Scientific Cttee. on Effects of Atomic Radiation 1956-57; Hon. Adviser, Scientific Cttee. of Nat. Gallery 1952-, Trustee, Nat. Gallery 1966-71; Pres. Int. Org. for Medical Physics 1965-69; Consultant to WHO; Prof. Emer. of Physics as Applied to Medicine, Univ. of London; fmrly. Dir. of Physics Dept., Inst. of Cancer Research, Royal Cancer Hosp.; many awards and hon. memberships of British and foreign institutions. *Publications:* Physics of X-Ray Therapy 1929, Some Applications of Nuclear Physics to Medicine 1950, Radiation and Health 1964, Carcinogenesis and Radiation Risk 1975; articles on application of physics to medicine and radiation hazards. *Address:* 7 Downs Way Close, Tadworth, Surrey, England. *Telephone:* Tadworth 2297.

MAYO, Robert Porter, A.B., M.B.A.; American government official and banker; b. 15 March 1916, Seattle, Wash.; s. of Carl A. and Edna A. Mayo; m. Marian A. Nicholson; two s. two d.; ed. Univ. of Washington; Dir. of Research and tax auditor, Wash. State Tax Comm., Olympia, Wash. 1938-41; Econ. Analyst and Asst. Dir. of Tech. Staff, Office of Sec. of Treasury, Wash., D.C. 1941-52; Chief, Debt Analysis Staff, Treasury 1953-58; Asst. for Debt Management to Sec. of Treasury 1959-60; Trust Investments Vice-Pres. Continental Illinois Nat. Bank & Trust Co. of Chicago 1960-67; Staff Dir. Presidents' Comm. on Budget Concepts 1967; special public affairs assignments for senior management, Continental Bank 1968; Dir. Bureau of the Budget and Counsellor to Pres. of U.S.A. Jan. 1969-July 1970; Pres. Federal Reserve Bank of Chicago July 1970-. *Leisure interests:* camping and travelling with family, carpentry, music. *Address:* Federal Reserve Bank, Chicago, Ill. 60690, U.S.A. *Telephone:* (312) 322-5001.

MAYR, Ernst, PH.D.; American professor of biology; b. 5 July 1904, Kempten, Germany; s. of Otto Mayr and Helene Pusinelli; m. Margarete Simon 1935; two d.; ed. Univs. of Greifswald and Berlin; Asst. Curator, Univ. of Berlin 1926-32; Assoc. Curator, Whitney-Rothschild Collection of American Museum of Natural History 1932-44, Curator 1944-53; Alexander Agassiz Prof. of Zoology, Harvard Univ. 1953-75, Emer. 1975-; Dir. Museum of Comparative Zoology 1961-70; Visiting Prof., Univ. of Minn. 1949, 1974, Univs. of Pavia and Wash. 1951-52; Lecturer, Columbia Univ. 1941, 1950, Philadelphia Acad. of Sciences 1947, Univ. of Calif. at Davis 1967; Expeditions to Dutch New Guinea, Mandated Territory of New Guinea and Solomon Islands 1928-30; six U.S. and foreign Hon. doctorates; Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences, American Philosophical Soc.; Corresp. Fellow, Zoological Soc. of India; Hon., Foreign and Corresp. mem. of 19 foreign socs.; numerous awards including Leidy Medal of Acad. of Natural Sciences, Philadelphia 1946, Wallace Darwin Medal of Linnean Soc., London 1958, Daniel Giraud Eliot Medal of Nat. Acad. of Sciences 1967, Centennial Medal of American Museum of Natural History 1969, Nat. Medal of Science 1970. *Publications:* List of New Guinea Birds 1941, Systematics and the Origin of Species 1942, Birds of the Southwest Pacific 1945, Birds of the Philippines 1946, Methods and Principles of Systematic Zoology 1953, The Species Problem (Editor, American Assn. for the Advancement of Science Publication No. 50) 1957, Animal Species and Evolution 1963, Principles of Systematic Zoology 1969, Populations, Species and Evolution 1970, Evolution and the Diversity of Life 1976 and 390 articles in journals. *Leisure interests:* natural history, history of biology. *Address:* Museum of Comparative Zoology, Harvard University, Cambridge, Mass. 02138 (Office); 11 Chauncy Street, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 495-2476 (Office); 354-6769 (Home).

MAYTAG, Lewis B.; American airline executive; b. 1926; ed. Colorado College; Chair. of Board and Pres. Nat. Airlines, Inc.; Dir. Maytag Co. *Address:* P.O. Box 592055 AMF, Miami, Fla. 33159, U.S.A. (Office).

MAZAR, Benjamin, D.PHIL.; Russian-born Israeli archaeologist; b. 28 June 1906; m. Dina Shimshi (deceased) 1932; ed. Berlin and Giessen Univs; settled in Palestine 1929; joined staff of Hebrew Univ, Jerusalem 1943, Prof. of Biblical History and Archaeology of Palestine 1951-, Rector 1952-61, Pres. 1953-61; Chair. Israel Exploration Soc.; Dir. excavations Ramat Rahel 1932, Beth Shearim 1936-40, 1956, Beth Yerah 1942-43, Tell Qasile 1948-50, 1959, Ein Gedi 1960, 1962, 1964, 1965, Old City of Jerusalem 1968-77; Hon. mem. British Soc. for Old Testament Study, American Soc. of Biblical Literature and Exegesis; mem. Admin. Council, Int. Assn. of Univs.; Hon. D.H.L. Hebrew Union Coll. (Jewish Inst. of Religion, U.S.A.), Jewish Theological Seminary of America; Hon. Dr. h.c. (Hebrew Univ. of Jerusalem 1975); Award of Govt. of Israel 1968. *Publications:* Untersuchungen zur alten Geschichte Syriens und Palästinas 1930, History of Archaeological Research in Palestine 1936, History of Palestine from the early days to the Israelite Kingdom 1938, Beth Shearim Excavations 1936-40 1940 (2nd edn. 1958), Historical Atlas of Palestine: Israel in Biblical Times 1941, Excavations at Tell Qasile 1951, Ein Gedi 1964, The World History of the Jewish People Vol. II 1967, The Western Wall and the Ophel Hill 1974, The Mountain of the Lord 1976; Chair. Editorial Board Encyclopaedia Biblica 1950-78. *Address:* Hebrew University of Jerusalem, Jerusalem; 9 Abarbanel Street, Jerusalem, Israel. *Telephone:* 39857.

MAZEAUD, Pierre; French politician; b. 24 Aug. 1929, Lyon; m. 1st Marie Prohom 1953 (divorced 1960), two d.; m. 2nd Sophie Hamel 1967, two d.; Judge of Tribunal of Instance, Lamentin, Martinique 1961; Sec. of State to Prime Minister 1961; Judge of Tribunal of Great Instance, Versailles 1962; Sec. of State to Minister of Justice 1962; Sec. of State to Minister of Youth and Sports 1967-68; Deputy for Hauts-de-Seine 1968-73; Vice-Pres. Groupe des deputés sportifs 1968; Minister responsible for Youth and Sport 1973-76; Counsellor of State 1976; climbed Everest 1978 (oldest to climb Everest). *Address:* 3 rue Palatine, 75006 Paris, France.

MAZIA, Daniel, PH.D.; American biologist; b. 18 Dec. 1912, Scranton, Pa.; s. of Aaron Mazia and Bertha Kurtz; m. Gertrude Greenblatt 1938; two d.; ed. Univ. of Pennsylvania; Nat. Research Council Fellow 1937-38; Asst. Prof., Assoc. Prof., Univ. of Missouri 1938-42; Capt. U.S. Army Air Force 1942-45; Assoc. Prof., Prof., Univ. of Missouri 1945-50; Prof. of Zoology, Univ. of Calif., Berkeley 1951-53; Prof. Marine Biology Laboratory, Woods Hole; mem. Nat. Acad. of Sciences; Exec. Editor Experimental Cell Research; Hon. PH.D. (Stockholm) 1976. *Publications:* Mitosis and the Physiology of Cell Division 1961, Editor General Physiology of Cell Specialization 1963, 160 articles in field of cell biology. *Address:* 900 Shattuck Avenue, Berkeley, Calif. 94720, U.S.A. *Telephone:* 525-2448.

MAZIO, Aldo Maria; Italian diplomatist; b. 1907, Rome; s. of Alberto and Iseult Mazio; m. Augusta Cantu 1944; one s. two d.; ed.

Università degli Studi, Rome, and Yale Univ; Research fellow, Yale Univ. 1929-30, Asst. Prof. 1930-31; joined Italian Foreign Service 1932, early service Cairo, Ottawa, Washington, and Holy See; Consul-Gen., New York 1949-52; Asst. Perm. Sec. Ministry of Foreign Affairs 1952-55; Minister Dublin 1955-58; Amb. to Tunisia 1958-62, to the Netherlands 1963-65, Belgium 1965-71; Head, Del. of Comm. of European Communities in U.S.A. 1971-73; retd. from Foreign Service; Chair. SGI (Società Generale Immobiliare) Int. 1977; Chair. Immobiliare International (Watergate Improvements, Washington and development of Place Victoria, Montreal); Dir. Banco di Santo Spirito, Rome. *Leisure interests:* reading, travelling. *Address:* 89, via del Babuino, Rome, Italy. *Telephone:* 6797304.

MAZRUI, Ali A., M.A., D.PHIL.; Kenyan professor of politics; b. 24 Feb. 1933, Mombasa; ed. Univs. of Manchester, Columbia and Oxford; Lecturer in Political Science, Makerere Univ., Uganda 1963-65, Prof. of Political Science 1965-73, Dean of Social Sciences 1967-69; Assoc. Editor Transition Magazine 1964-73, Co-Editor Mawazo Journal 1967-73; Visiting Prof. Univ. of Chicago 1965; Research Assoc. Harvard Univ. 1965-66; Dir. African Section, World Order Models Project 1968-73; Visiting Prof. Northwestern Univ., U.S.A. 1969, McGill and Denver Univs. 1969, London and Manchester Univs. 1971, Dyason Lecture Tour of Australia 1972; Vice-Pres. Int. Political Science Assn. 1970-73, Int. Congress of Africanists 1967-73; Fellow, Center for Advanced Study in the Behavioural Sciences, Stanford 1972-73; Prof. of Political Science, Univ. of Michigan 1973-77; Senior Visiting Fellow, Hoover Inst. on War, Revolution and Peace, Stanford 1973-; Int. Org. Essay Prize 1964, Northwestern Univ. Book Prize 1969. *Publications:* Towards a Pax Africana 1967, On Heroes and Uhuru-Worship 1967, The Anglo-African Commonwealth 1967, Violence and Thought 1969, Co-Editor Protest and Power in Black Africa 1970, The Trial of Christopher Okigbo 1971, Cultural Engineering and Nation Building in East Africa 1972, Co-Editor Africa in World Affairs: The Next Thirty Years 1973, Africa's International Relations 1978. *Address:* c/o Hoover Institution on War, Revolution and Peace, Stanford, Calif. 94305, U.S.A.

MAZUROV, Kiril Trofimovich; Soviet politician; b. 1914; ed. Gomel Highway Technicum and Higher Party School; Technician, road and bridge-building 1933-36; served Soviet Army 1936-39; engaged in Communist Youth League activities, Gomel and Brest Oblasts 1939-40; mem. CPSU 1940-; served Army 1941; resistance work 1942; Sec. Communist Youth League of Byelorussia 1943-47; Official of Cen. Cttee., CP of Byelorussia 1947-48; 1st Sec. Minsk City Party Cttee. 1949-50, Regional Cttee. 1950-53; Deputy to U.S.S.R. Supreme Soviet 1950-; Chair. Byelorussian Council of Ministers 1953-56; mem. CPSU Cen. Cttee. 1956-; First Sec. C.P. of Byelorussia 1956-65; First Vice-Chair. U.S.S.R. Council of Ministers 1965-78; Cand. mem. Presidium of Cen. Cttee. of CPSU 1957-65, mem. 1965-66, mem. Politburo 1966-78; Order of Lenin (four times) and other decorations. *Address:* U.S.S.R. Council of Ministers, The Kremlin, Moscow, U.S.S.R.

MBAYA, Robert Bernard; Malawi civil servant and diplomatist; b. 30 June 1933, Nkhota Kota; m.; five c.; ed. Univ. of Ghana, and public admin. studies, Mpemba. Laboratory Asst., Chitedze 1957; Accounts Asst., Accountant-Gen.'s Dept. 1958-62, study leave 1962-66, Admin. Officer 1966; Asst. District Commr., Kasupe 1966; Admin. Officer, Ministry of Devt. and Planning 1967, of Econ. Affairs 1967-68, of Labour and Supplies 1968; Principal Admin. Officer, Ministry of Labour and Supplies 1968-69; Exec. Sec. Repub. Anniversary Celebrations 1969; Principal Admin. Officer, Ministry of Information and Tourism 1969-70; Under-Sec. Ministry of Transport and Communications 1970-71; Deputy Sec. Ministry of Agriculture and Natural Resources 1971-72; Perm. Sec. Ministries of Natural Resources and Transport and Communications March-June 1972; Amb., Malawi Mission to UN 1972-73; Amb. to U.S.A. and Perm. Rep. of Malawi to UN 1973-75; High Commissioner to U.K. 1975-76. *Address:* c/o Ministry of External Affairs, P.O. Box 30315, Capital City, Lilongwe 3, Malawi.

MBITA, Col. Hashim Iddi; Tanzanian journalist and army officer; b. 2 Nov. 1933, Tabora; ed. Govt. Town School, Tabora Govt. Senior Secondary School, East African School of Co-operatives, Kabete, Kenya, American Press Inst. (Columbia Univ., New York), Mons Officer Cadet School, Aldershot, England; Asst. Co-operative Inspector 1958-60; Public Relations Officer 1960-62; Press Officer 1962-64; Senior Press Officer 1964-65; Press Sec. to the Pres. 1966-67; Publicity Sec. Tanganyika African Nat. Union 1967-68, Nat. Exec. Sec. 1970-72; Army Officer 1969; Exec. Sec., OAU Liberation Cttee. 1972-78. *Address:* c/o Liberation Committee, P.O. Box 1767, Dar es Salaam, Tanzania.

M'BOW, Amadou-Mahtar, L. ès L.; Senegalese educationist; b. 20 March 1921, Dakar; m. Raymonde Sylvain 1951; one s. two d.; ed. Faculté des Lettres, Univ. de Paris; Prof., Coll. de Rosso, Mauritania 1951-52; Dir. Service of Fundamental Educ. 1953-57; Minister of Education and Culture 1957-58; Prof. Lycée Faidherbe, St. Louis 1958-64; Ecole Normale Supérieure, Dakar 1964-66; Minister of Educ. 1966-68; Minister of Culture, Youth and Sports 1968-70; Asst. Dir.-Gen. for Educ., UNESCO Nov. 1970-Nov. 1974; Dir.-Gen. UNESCO Nov. 1974-; Hon. Prof., Faculty of Humanities, Ind. Univ. of Santo Domingo (Dominican Repub.); Dr. h.c. (Univ. of the Andes, State Univ. of Mongolia, State Univ. of Haiti, Khartoum, Sri Lanka, Tribhuvan Univ. Nepal, Pontifical Catholic Univ. of Peru, Buenos Aires, Granada, Sherbrooke, West Indies, Open Univ. U.K., Belfast, Sofia, Nairobi, Philippines, Malaya, Venice, Uppsala, Moscow, Paris); Commdr. and Grand Officier Ordre National (Ivory Coast), Commdr. des Palmes académiques (France), Officier, Ordre du Mérite (Senegal), Commdr. de l'Ordre national de Haute Volta, Bintang Jasa Utama (Order of Merit, Indonesia), Kawkab Star (Jordan), Order of Merit (Syria) and numerous other decorations; Prix "Terre des Hommes", Canada. *Publications:* numerous monographs, articles in educational journals, textbooks, etc. *Address:* UNESCO, Place de Fontenoy, 75700 Paris, France. *Telephone:* 577-16-10.

MEAD, Sir Cecil, Kt.; British business executive; b. 24 Dec. 1900; with Guest, Keen & Nettlefolds Ltd. before First World War; R.N.V.R. in First World War; after First World War joined Technical Service org. of British Tabulating Machine Co. Ltd. (now Int. Computers and Tabulators Ltd.), later District Man., Birmingham, then Asst. Sales Man., Sales Man. 1939, and Dir. Hollerith Machines (South Africa) (Pty.) Ltd. (now Int. Computers and Tabulators S.A. (Pty.) Ltd.) 1939; Deputy Man. Dir. British Tabulating Machine Co. Ltd. 1949-55, Man. Dir. 1955-59; Man. Dir. Int. Computers and Tabulators Ltd. (merger of British Tabulating Machine Co. and Powers-Samas Accounting Machines Ltd.) 1959-64, Deputy Chair. 1960-65, Chair. and Chief Exec. 1965-67; Chair. British Inst. of Management 1963-64; Dir. Int. Tutor Machines; Chair. Software Sciences Ltd. 1970-; Gov. Ashridge Management Coll.; mem. Council Foundation for Management Educ. *Address:* 20 Wolsey Road, East Molesey, Surrey, England.

MEADE, James Edward, C.B., F.B.A., M.A.; British economist; b. 23 June 1907, Swanage, Dorset; s. of Charles Hippisley Meade and Kathleen (née Cotton-Stapleton); m. Elizabeth Margaret Wilson 1933; one s. three d.; ed. Malvern Coll., Oriel Coll., Oxford, and Trinity Coll., Cambridge; Fellow and Lecturer in Economics, Hertford Coll., Oxford 1930-37, Bursar 1934-37; mem. Financial Section and Economic Intelligence Service, LN; Editor LN World Economic Survey 1938-40; mem. Economic Section Cabinet Office 1940-45, Dir. 1946-47; Prof. of Commerce with special reference to Int. Trade, London School of Economics 1947-57; Prof. of Political Economy, Univ. of Cambridge 1957-69; Nuffield Senior Research Fellow, Christ's Coll. Cambridge 1969-74; Research Assoc., Dept. of Applied Econs., Cambridge Univ. 1979-; Visiting Prof. of Economics and Finance in Australian Nat. Univ. 1956; Pres. Section F of British Assn. for the Advancement of Science 1957; Chair. Econ. Survey Mission to Mauritius 1960; Pres. Royal Econ. Soc. 1964-66; Chair. Inst. for Fiscal Studies Cttee. on U.K. Tax Structure 1975-77; mem. Council, Royal Econ. Soc. (Vice-Pres. 1966-); Dr. h.c. (Basel, Hull, Essex, Oxford, Bath); shared Nobel Prize (with Bertil Ohlin) for Econ. Science 1977. *Publications:* Rublic Works in their International Aspect 1933, The Rate of Interest in a Progressive State 1933, Economic Analysis and Policy 1936, Consumers' Credits and Unemployment 1937, The Economic Basis of a Durable Peace 1940, Planning and the Price Mechanism 1948, The Theory of International Economic Policy, Vol. I 1951, Vol. II 1955, A Geometry of International Trade 1952, Problems of Economic Union 1953, The Theory of Customs Unions 1955, The Control of Inflation 1958, A Neo-Classical Theory of Economic Growth 1961, Efficiency, Equality, and the Ownership of Property 1964, The Stationary Economy 1965, The Growing Economy 1968, The Theory of Indicative Planning 1970, The Controlled Economy, The Theory of Economic Externalities 1973, The Intelligent Radical's Guide to Economic Policy 1975, The Just Economy 1976. *Address:* 40 High Street, Little Shelford, Cambridge CB2 5ES, England.

MEADMORE, Jean Georges, LL.M.; French diplomatist; b. 17 Oct. 1922, Tientsin, China; m. Nicole Robin 1954; two s.; ed. Law Faculty, Paris Univ. and Ecole des Langues Orientales; Attaché, Embassy in Nanking, Repub. of China 1948-49; Vice-Consul at Consulate-Gen. in Seoul, Korea 1949-50; deported to North Korea 1950-53; Second Sec., Wellington, New Zealand 1954-57; Ministry of Foreign Affairs 1957-61; Consul-Gen., Kobe, Japan 1961-65; Ministry of Foreign Affairs 1965-69; First Counsellor, Dakar, Senegal 1969-73; Ministry of Foreign Affairs, Personnel Section 1973-

76; Amb. to Benin 1976-78; Officier, Légion d'honneur. *Address:* c/o Ministère des Affaires Etrangères, Quai d'Orsay, Paris, France. *Telephone:* 31-22-24.

MEADOWS, Bernard William; British sculptor; b. 19 Feb. 1915; ed. City of Norwich School, Norwich School of Art and Royal Coll. of Art; exhibited Venice Biennale 1952, 1964, British Council exhbns., N. and S. America, Germany, Canada, New Zealand, Australia, Scandinavia, Finland and France; open-air exhbns. of Sculpture, Battersea Park, London 1952, 1960, 1963, 1966, Holland Park 1957, Antwerp 1953, 1959, Arnhem 1958, British Pavilion, Brussels 1958, São Paulo Bienal 1958, Carnegie Inst., Pittsburgh 1959-61; one-man exhibitions London and New York 1957-; works in Tate Gallery, Victoria and Albert Museum and collections in Europe, America and Australia; Prof. of Sculpture, Royal Coll. of Art, London 1960-. *Address:* 34 Belsize Grove, London, N.W.3, England.

MEAGHER, Blanche Margaret, O.C., M.A.; Canadian diplomatist, retd.; b. 27 Jan. 1911; ed. St. Patrick's High School, Mount St. Vincent Coll., and Dalhousie Univ., Halifax, Nova Scotia; Teacher, Halifax Public Schools 1932-42; Dept. of External Affairs 1942-, served Ottawa, Mexico, London, Tel Aviv, Vienna, Kenya, Uganda; Ambassador to Israel 1958-61, concurrently High Commr. in Cyprus 1961; Ambassador to Austria 1962-66; Gov. from Canada, AEA 1962-66, Chair. Board of Govs., 1964-65; High Commr. to Kenya Feb. 1967-Aug. 1969, to Uganda 1967-69; Amb. to Sweden 1969-73; Diplomat-in-Residence, Dalhousie Univ., Halifax, Nova Scotia Sept. 1973-; mem. Board of Trustees, Nat. Museums Corpn.; D.C.L. h.c. *Address:* 6899 Armview Avenue, Halifax, Nova Scotia, Canada. *Telephone:* 423-0895.

MEANEY, Patrick Michael; British company executive; b. 6 May 1925, London; s. of the late Joseph and Ethel Meaney; m. Mary June Kearney 1967; one s.; ed. Wimbledon Coll; mil. service 1941-47; various commercial appointments 1947-61; joined Thomas Tilling Ltd. 1961, Group Man. Dir. and Chief Exec. 1973-; Regional Dir. Lloyds Bank Nov. 1977-; Dir. Cable and Wireless Ltd. Sept. 1978-. *Leisure interests:* rugby, football, music, travel. *Address:* Stambourne House, Totteridge Village, London, N20 8JP, England. *Telephone:* 01-445 9576.

MEANY, George; American trade unionist; b. 16 Aug. 1894, N.Y.C.; m. Eugenia McMahon 1919 (died 1979); three d.; plumber's apprentice 1910, journeyman plumber 1915; business rep. Plumbers' Local Union 463 N.Y.C. 1922-34; Pres. N.Y. State Fed. of Labor 1934-39; Sec.-Treas. American Fed. of Labor 1940-52, Pres. 1952-55; Pres. American Fed. of Labor and Congress of Industrial Organisations (AFL-CIO) (combined org.) 1955-; mem. Nat. Defense Mediation Board 1941-42; War Labor Board 1942-45, U.S. Del. UN 1957, 1959; Hon. Dr. Iur (Seton Hall, Long Island Univ., Univ. of Pennsylvania, DePaul Univ., St. John's Univ., Boston Coll., Univ. of Mass., Fordham Univ., Catholic Univ., Georgetown Univ., Iona Coll., Gonzaga Coll. High School, Wash.); Hon. D.Hum.Litt (Oblate Coll., Washington Univ.) 1970; Hon. D.Phil. (Tel Aviv); Laetare Medallist 1955; Americanism Gold Medal VFW 1959, 1963; Presidential Medal of Freedom Award 1963; Grand Official of Order of Merit of the Republic of Italy 1964, and numerous other honours; Democrat. *Leisure interests:* golf, painting. *Address:* AFL-CIO Building, 815 16th Street, N.W., Washington, D.C. 20006, U.S.A.

MÉBIAME, Léon; Gabonese politician; b. 1 Sept. 1934, Libreville; ed. Coll. Moderne, Libreville, Centre de Préparation aux Carrières Administratives, Brazzaville, Ecole Fédérale de Police, Ecole Nat. de Police, Lyon, France; posted in Chad 1957-59; Police Supt. 1960; further studies at Sûreté Nat. Française, Paris; Deputy Dir. Sûreté Nat., Gabon 1962-63, Dir. 1963-67; successively Under-Sec. of State for the Interior, Minister Del. for the Interior and Minister of State in charge of Labour, Social Affairs and the Nat. Org. of Gabonese Women 1967; Vice-Pres. of the Govt., Keeper of the Seals and Minister of Justice Jan.-July 1968; Vice-Pres. of the Govt. in charge of Co-ordination 1968-75, Pres. Nat. Consultative Council 1972-; Prime Minister April 1975-, Minister of Co-ordination, Housing and Town Planning 1975-76, of Land Registry 1976-78, of Co-ordination, Agric., Rural Devt., Waters and Forests 1978-; Commdr. Etoile Equatoriale; Grand Officier, Order national de Côte d'Ivoire, du Mérite Centrafricain; Chevalier, Etoile Noire du Bénin. *Address:* Office du Premier Ministre, B.P. 546, Libreville, Gabon.

MECKLINGER, Ludwig, PROF. DR. MED. HABIL.; German lawyer, doctor and politician; b. 14 Nov. 1919, Buchdorf; Col. of NVA (People's Army), G.D.R. 1958-64; Prof. of Social Hygiene, Univ. of Greifswald 1964-; Deputy Minister 1964-69; State Sec. 1969-71; Minister of Health 1971-; Prof. Dr. sc. med; Dr. h.c.; Dipl. jur; Vaterländischer Verdienstorden in Bronze, Silver and Gold, and other decorations. *Address:* Ministerium für Gesundheitswesen, Rathausstrasse 3, 102 Berlin, German Democratic Republic.

MEDANI, Mustafa, M.A.; Sudanese diplomatist; b. 1930; m.; four c.; ed. Cambridge Univ; joined Ministry of Foreign Affairs 1958; Consul-Gen. Damascus 1958-60; Asst. Head of Confs. and Treaties Section, Ministry of Foreign Affairs 1960-61; First Sec., London 1961-63; Amb. to Lebanon, concurrently accred. to Syria and Jordan 1965-69, to Czechoslovakia, concurrently accred to Hungary 1969-71; Deputy Under-Sec. for Political Affairs and Acting Under-Sec. 1971-72; Amb. to Ethiopia 1972-74; Perm. Rep. to UN 1974-78; Head of Del. to UN Conf. on Human Rights, Teheran 1967, to Foreign Ministers' Conf., OAU 1974, Del. to several int. confs. *Address:* c/o Ministry of Foreign Affairs, Khartoum, Sudan.

MEDARIS, Maj.-Gen. J. Bruce, A.I.A.A.; American army officer (retd.) and clergyman; b. 12 May 1902, Milford, Ohio; s. of William R. Medaris and Jessie LeSourd; m. Virginia Smith 1931; one s. two d.; ed. Ohio State Univ; U.S. Marine Corps in First World War 1918-1919; army service 1921-27; management and business in S. America and U.S.A. 1928-39; recalled to U.S. Army 1939; served in France, Germany and Central Europe; Chief U.S. Army Mission to Argentina 1948-52; Commdg. Gen., Army Ballistic Missile Agency, Redstone Arsenal 1956-58; Commdg. Gen., U.S. Army Ordnance Missile Command 1958-60; Pres. Lionel Corpn. 1960-62, Vice-Chair. 1962-63; Chair. Board Electronic Teaching Labs., Washington 1960-61; Chair. Exec. Cttee. All-State Devt. Corpn., Miami 1962-63; Pres. Medaris Management Inc. 1963-70, Chair. of Board 1970-78; Chair. Radio Free Europe; Board of Dirs. Pan American Funds 1973-75; ordained Deacon, Episcopal Church 1969, Priest 1970; Chaplain and Missioner, Order of St. Luke 1972-; Assoc. Rector, Episcopal Church of the Good Shepherd 1973-79; Chair. Board, World Center for Liturgical Studies 1973-74; Priest Assoc. Comm. of St. Mary 1976-; Soc. of the Holy Cross 1978-; Priest, Anglican Catholic Church 1979; Hon. Sc.D. (Alabama, N.M. State, Rollins Coll.); Hon. LL.D. (Chattanooga, Pa. Mil. Coll.); Hon. S.Sc. D. (Fla. Inst. Tech.); D.S.M. (one Oak Leaf Cluster), Soldiers Medal, Legion of Merit (two Oak Leaf Clusters), Croix de guerre with Palm, Couronne de Chêne (Luxembourg), Légion d'honneur. *Publications:* Count Down for Decision 1960, Religious Tapes. *Leisure interests:* golf, fishing. *Address:* 1050 Cottontail Lane, Maitland, Fla. 32751, U.S.A. *Telephone:* (305) 644-61.

MEDAWAR, Sir Peter Brian, Kt., C.H., C.B.E., M.A., D.SC., F.R.S.; British biological scientist; b. 28 Feb. 1915, Rio de Janeiro, Brazil; s. of Nicholas Medawar and Edith Muriel Dowling; m. Jean Shinglewood Taylor 1937; two s. two d.; ed. Marlborough Coll. and Magdalen Coll., Oxford; Lecturer in Zoology, Oxford Univ. 1938-47; Mason Prof. of Zoology, Birmingham Univ. 1947-51; Jodrell Prof. of Zoology, Univ. Coll., London Univ. 1951-62; Dir. Nat. Inst. for Medical Research 1962-71; currently Head, Div. of Surgical Sciences, Clinical Research Centre; Pres. British Assn. for Advancement of Science 1968-69; Prof. of Experimental Medicine, Royal Institution of Great Britain 1977-; mem. Board of Scientific Consultants, Memorial Sloan-Kettering Cancer Center, New York; Hon. Foreign Assoc. Nat. Acad. of Sciences, U.S.A., American Philosophical Soc., American Acad. Arts and Sciences, New York Acad. of Sciences; Royal Medallist, Royal Soc. 1959, Nobel Prize in Medicine and Physiology 1960; Copley Medal, Royal Soc. 1969, Hamilton Fairley Medal, Royal Coll. of Physicians 1971. *Publications:* The Uniqueness of the Individual 1958, The Future of Man 1960, The Art of the Soluble 1967, Induction and Intuition in Scientific Thought 1969, The Hope of Progress 1972, Introduction to Biological Ideas 1976, The Life Science (with J. S. Medawar) 1977, Advice to a Young Scientist 1979; scientific papers on growth, ageing, wound healing and transplantation. *Address:* 25 Downshire Hill, London NW3 1NT, England. *Telephone:* 01-435 0822.

MEDEIROS, H. E. Cardinal Humberto S.; American ecclesiastic; b. 6 Oct. 1915, Arrifes, Island of São Miguel, Portuguese Azores; ed. Catholic Univ., Washington, D.C.; ordained 1946; Asst. Priest, St. John of God, Somerset 1946, St. Michael's Fall River 1946-47, Our Lady of Health, Fall River 1947, Mount Carmel Parish Church, New Bedford 1949; Chaplain, St. Vincent de Paul Health Camp 1948-49; research 1949-50; Asst. Priest, Holy Name parish, Fall River 1950; Asst. Chancellor, Fall River diocese 1951-53, Vice-Chancellor and subsequently Chancellor 1953-56; Pastor, St. Michael's, Fall River 1960-66; Bishop of Brownsville, Tex. 1966-70; Archbishop of Boston 1970-73; created Cardinal by Pope Paul VI 1973. *Address:* 2101 Commonwealth Avenue, Brighton, Mass. 02135, U.S.A.

MÉDICI, Gen. Emílio Garrastazú; Brazilian army officer and politician; b. 4 Dec. 1905, Bagé, Rio Grande do Sul; ed. Military Acad., Rio Grande do Sul; Head, Secret Service of 2nd Mil. Region, subsequently Chief of Staff; Head, Brazilian Mil. Acad., Agulhas

Negras 1964; Mil. Attaché, Washington, D.C. 1964-66; Commdr. 3rd Mil. Region 1966; Head, Nat. Intelligence Service 1967; Head, Third Army Command April-Oct. 1969; Pres. of Brazil 1969-74. *Address:* c/o Palácio do Planalto, Brasilia, D.F., Brazil.

MEDICI, Giuseppe; Italian agricultural economist and politician; b. 24 Oct. 1907; ed. Univs. of Milan and Bologna; Prof. of Agricultural Econs., Univ. of Perugia 1935, of Turin 1936-47; Pres. Istituto Nazionale di Economia Agraria, Rome 1947-62; mem. Italian dels. to ECA international confs.; Pres. Ente Maremma (Land Reform Agency) 1951-53; Prof. Univ. of Naples 1952, Univ. of Rome 1960; mem. of the Senate (Christian Democrat); Minister of Agric. 1954-55, of the Treasury 1956-June 1958, of the Budget July 1958-Jan. 1959, of Educ. Feb. 1959-July 1960; Minister without Portfolio (with responsibilities for Admin. Reform) 1962-63, Minister of the Budget June-Nov. 1963, Minister of Industry and Commerce Dec. 1963-March 1965; Minister of Foreign Affairs June-Dec. 1968, 1972-73; Chair. Montedison July 1977-; Gov. EIB 1958; Pres. Senate Comm. for Foreign Affairs 1960-62; Pres. World Food Conf., Rome 1974. *Publications include:* Principii di Estimo 1948 (abridged edn. in English Principles of Appraisal 1953); Italy: Agricultural Aspects 1949, I Tipi d'Impresa dell' Agricoltura 1951, Agricoltura e Disoccupazione Vol. I 1952, Land Property and Land Tenure in Italy 1952, Lezioni di Politica Economica 1967. *Address:* Montedison, Foro Bonaparte 31, Milan, Italy.

MEDVEDEV, Roy Aleksandrovich, PH.D.; Soviet historian and sociologist; b. 14 Nov. 1925, Tbilisi; s. of Aleksandr Medvedev and Yulia Medvedeva; twin brother of Zhores Medvedev (*q.v.*); m. Galina A. Gaidina 1956; one s.; ed. Leningrad State Univ., Acad. of Pedagogical Sciences of U.S.S.R.; Teacher of History, Ural Secondary School 1951-53; Dir. of Secondary School in Leningrad region 1954-56; Deputy to Editor-in-Chief of Publ. House of Pedagogical Literature, Moscow 1957-59; Head of Dept., Research Inst. of Vocational Educ., Acad. of Pedagogical Sciences of U.S.S.R. 1960-70, Senior Scientist 1970-71; freelance author 1972-. *Publications:* Vocational Education in Secondary School 1960, Faut-il réhabiliter Staline? 1969, A Question of Madness (with Zhores Medvedev) 1971, Let History Judge 1972, On Socialist Democracy 1975, Qui a écrit le "Don Paisible"? 1975, La Révolution d'octobre était-elle inéluctablée 1975, Solschenizyn und die Sowjetische Linke 1976, Khrushchev—The Years in Power (with Zhores Medvedev) 1976, Political Essays 1976, Problems in the Literary Biography of Mikhail Sholokhov 1977, Entstalinisierung 1977, Intervista sul dissenso in URSS 1978, Samizdat Register 1978. *Address:* Abonnement Post Box 45, Moscow G-19, U.S.S.R.

MEDVEDEV, Zhores Aleksandrovich, PH.D.; Soviet (now stateless) biologist; b. 14 Nov. 1925, Tbilisi; s. of Aleksandr Romanovich Medvedev and Yulia Medvedeva; twin brother of Roy Medvedev (*q.v.*); m. Margarita Nikolayevna Buzina 1951; two s.; ed. Timiriazev Acad. of Agricultural Sciences, Moscow, Inst. of Plant Physiology, U.S.S.R. Acad. of Sciences; Scientist, later Senior Scientist, Dept. of Agrochemistry and Biochemistry, Timiriazev Acad. 1951-62; Head of Laboratory of Molecular Radiobiology, Inst. of Medical Radiology, Obninsk 1963-69; Senior Scientist All-Union Scientific Research Inst. of Physiology and Biochemistry of Farm Animals, Borovsk 1970-72; with Nat. Inst. for Medical Research, London 1973-. *Publications:* Protein Biosynthesis and Problems of Heredity, Development and Aging 1963, Molecular-Genetic Mechanisms of Development 1968, The Rise and Fall of T. D. Lysenko 1969, The Medvedev Papers 1970, A Question of Madness (with Roy Medvedev) 1971, Ten Years After 1973, Khrushchev—The Years in Power (with Roy Medvedev) 1976, Soviet Science 1978, The Nuclear Disaster in the Urals 1979, and over 100 papers and articles on gerontology, genetics and biochemistry. *Leisure interests:* social research and writing, travel. *Address:* c/o National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA, England. *Telephone:* 01-959 3666.

MEEKER, Leonard C., A.B., LL.B.; American lawyer and diplomatist; b. 4 April 1916, Montclair, N.J.; s. of Irving Avard Meeker and Elizabeth Louis Carpenter; m. 2nd Beverly Joan Meeker 1969; two s. two d. (by previous m.); ed. Amherst Coll. and Harvard Univ; Attorney, Treasury Dept. 1940-41, Dept. of Justice 1941-42; U.S. Army Lieut. 1942-46; Asst. to the Legal Adviser, Dept. of State 1946-51, Asst. Legal Adviser for UN Affairs 1951-61, Dep. Legal Adviser 1961-64, Acting Legal Adviser 1964-65, Legal Adviser 1965-69; U.S. Amb. to Romania 1969-73; Trustee, Potomac School 1959-67, Chair. of Board 1960-63; Center for Law and Social Policy 1974-; mem. American Bar Assn., Fed. Bar Assn., American Soc. of Int. Law; Hon. LL.D. (Amherst Coll.); Rockefeller Public Service Award 1968. *Address:* 3000 Chain Bridge Road, N.W., Washington, D.C. 20016, U.S.A.

MEGSON, Claude Walter, M.ARCH.; New Zealand architect; b. 29 July 1936, Whangarei; s. of Cecil Wallace Megson and Anne Storey; m. Cherie Elizabeth Willson 1968; ed. Whangarei Boys High School, Auckland Univ.; began architectural practice 1963; Senior Lecturer Auckland Univ. School of Architecture 1969-; Nat. Award of Merit (Jopling House), N.Z. Inst. of Architects 1967, Bronze Medal (Wong House), N.Z. Inst. of Architects 1969, Architectural Design Awards of Architectural Assn. for Shopping Complex 1969, Town Houses 1971, Architect's Own House 1972. *Major works include:* Wade House 1963, Jopling House 1965, Wong House 1967, Mrkusich Town Houses 1968, Good House 1969, Todd House 1970, Barr House 1973, Cocker Town Houses 1974. *Leisure interests:* classical music, photography, modern art, gardening. *Address:* 27 Dingle Road, St. Heliers, Auckland 5, New Zealand. *Telephone:* 556-822.

MÉHAIGNERIE, Pierre; French engineer and politician; b. 4 May 1939, Balazé; s. of Alexis and Pauline Boursier Méhaignerie; m. Julie Harding 1965; two s.; ed. Lycée Saint-Louis, Paris, Ecole nationale supérieure agronomique, Rennes; assisted with technical co-operation, Tunisia 1965-67; technical counsellor, Ministry of Agric. 1969-71, Ministry of Cultural Affairs 1971-73; mem. Nat. Assembly for Ille-et-Vilaine 1973-76; County Councillor for Vitré-Est 1976-; Sec. of State to Minister of Agric. 1976-77; Minister of Agric. March 1977-; mem. Centre des démocrates sociaux, Union pour la démocratie française. *Address:* 4 bis rue Bertrand-d'Argentre, 35500 Vitre, France.

MEHEDEBI, Bahsir; Tunisian politician; b. 1912; Amb. to Lebanon, Kuwait, Libya 1965-70; Sec.-Gen. Ministry of Foreign Affairs 1970-71; Minister of Defence 1971-72; Amb. to U.K. 1972-74, to Morocco 1974-76; mem. Political Bureau, Socialist Destour Party Oct. 1971-. *Address:* c/o Ministry of Foreign Affairs, Tunis, Tunisia.

MEHLHOUSE, Harvey G., B.A.; American business executive; b. Olivia, Minn.; m. Ellen Larsen 1932; one s. one d.; ed. North Cen. Coll., Naperville, Ill.; with Western Electric Co. 1929-, Supt. of Mfg. Engineering 1951-, mem. staff of subsid., Sandia Corpn. 1952-55, Gen. Man. Merrimack Valley works of Western Electric Co., N. Andover, Mass. 1955, Vice-Pres. Western's Mfg. Area Operations 1957, Vice-Pres. in Charge of Mfg. Div. Staff Functions 1960, Vice-Pres. Personnel and Public Rels. 1962, Dir. and Exec. Vice-Pres. in Charge of Corporate Staff Activities 1965, mem. Exec. Cttee. and Exec. Vice-Pres. in Charge of Mfg. Operations and related Engineering Activities 1967, Senior Exec. Vice-Pres. Oct. 1969, Pres., Chief Exec. Officer 1969-71, Chair. of Board 1971-72; Dir. Bell Telephone Laboratories, Sandia Corpn., Teletype Corpn., MFB Mutual Insurance Co., Uniroyal Inc.; Hon. D.Sc. (North Cen. Coll., Naperville, Ill.). *Leisure interests:* golf, photography, bridge. *Address:* 118 Hawthorn Drive, Hendersonville, North Carolina 28739, U.S.A.

MEHNERT, Klaus, PH.D.; German professor and journalist; b. 10 Oct. 1906, Moscow, Russia; s. of Hermann Mehnert and Louise Heuss; m. Enid Keyes 1933 (died 1955); ed. Univs. of Tübingen, Munich, Berlin and California (Berkeley); Sec. German Academic Exchange Service, Berlin 1929-31, German Soc. for Study of Eastern Europe (also Editor Osteuropa) 1931-33; newspaper corresp. in Moscow 1934-36; Visiting Prof. Univ. of Calif. 1936-37; Asst. Prof. of Modern History and Political Science, Univ. of Hawaii 1937-41; Prof. German Medical Acad. and St. John's Univ.; Editor The XXth Century, Shanghai 1941-45; in charge of Russian section, German Office for Peace Questions, Stuttgart 1947-48; Editor-in-Chief Christ und Welt 1949-54, Osteuropa 1951-76; Radio and TV Commentator 1950-; Prof. of Political Science, Aachen Inst. of Technology 1961-72; Senior Fellow Columbia Univ., New York 1972-73, 1975; mem. Deutsche Akademie für Wissenschaft und Literatur, Mainz, PEN Club; Grand Cross of the Order of Merit. *Publications:* Youth in Soviet Russia 1932, The Russians in Hawaii 1804-19 1939, Stalin versus Marx 1951, Asien, Moskau und Wir 1956, Soviet Man and His World 1960, Peking and Moscow 1963, Maos Zweite Revolution 1966, Der Deutsche Standort 1967, Peking and The New Left 1969, China Today 1972, Moscow and the New Left 1975, Jugend im Zeitbruch 1976, Kampf um Maos Erbe 1977, Twilight of the Young: The Radical Movements of the 1960s and Their Legacy 1978. *Leisure interest:* hiking. *Address:* D-7298 Lossburg 2, Schömberg-Blumenhof, Federal Republic of Germany.

MEHR, Farhang, LL.M., PH.D.; Iranian lawyer and economist; b. 1924; ed. Univs. of Teheran, Southampton and London; Prof. of Law and Public Finance; Legal Adviser, Head of Industrial Relations Dept., Nat. Iranian Oil Co. 1957; Adviser to High Council of Econs. and to Minister of Commerce 1958; Dir.-Gen. Petroleum and Int. Affairs 1959; Gov. for Iran, Org. of Petroleum Exporting

Countries 1963-68; Dir.-Gen. of Econ. Affairs 1963-78; Deputy Minister of Finance 1964-78; Asst. to Prime Minister 1966-78; fmr. Chair. of Board, Man. Dir. Iran Insurance Co. 1967; Chair. Ancient Iranian Cultural Soc. 1963, Zoroastrian Anjuman 1965; mem. Boards of Trustees, Teheran Coll. of Insurance, Kerman Univ., Computer Coll. Inst. for Int. Political and Economic Studies; Chancellor Pahlavi Univ. 1972-78; Order of Homayoun Third and Second Class, Order of Taj Second Class, Order of Sepah First Class, Order of Kah First Class, Order of Abadani va Pishraft First Class. *Publications:* Labour Law and Social Insurance 1960, Government Corporation 1964, Public Finance 1967.

MEHRA, Air Chief Marshal Om Parkash, M.A., P.V.S.M.; Indian air force officer; b. 19 Jan. 1919, Lahore (now in Pakistan); s. of Jagat Ram Mehra and Rani Amma; m. Satya Mehra 1946; three s. one d.; ed. Govt. Coll. Lahore and Punjab Univ.; joined Air Force 1940; graduated Staff Coll., Quetta 1943; commanded air force training insts. 1947-53; Dir. Training Air H.Q. 1953-54; Dean Inst. of Armament Technology 1960-63; Air Officer in charge of Maintenance Command 1963-67, in charge Maintenance at Air H.Q. 1967-69; Deputy Chief Air Staff 1969-71; Chair. Hindustan Aeronautics Ltd. 1971-73; Chief of Air Staff 1973-; Param Vishisht Seva Medal 1968. *Leisure interests:* golf, gardening, reading. *Address:* Air Headquarters, Vayu Bhavan, New Delhi 110011, India. *Telephone:* New Delhi 372517.

MEHRAN, Hassan Ali; Iranian central banker; b. 24 Dec. 1937, Teheran; ed. Univ. of Nottingham, England; Asst. Lecturer and Research Asst., Univ. of Bristol, U.K. 1965-68; worked at IMF 1968-69; Dir.-Gen. of Projects and Research and Deputy Man. Dir. of Research Centre, Ministry of Econ. 1969-71; Under-Sec. of Econ. 1971-74; Deputy Minister of Econ. Affairs and Finance 1974-75; Gov. Central Bank of Iran 1975-78; Chair. Bank Tosee Keshavarzi Iran. *Address:* Bank Tosee Keshavarzi Iran, 23 Takhte Jamshid Ave., Teheran; 36 Pirasteh Avenue, Teheran, Iran (Home).

MEHTA, Asoka, B.A.; Indian politician; b. 24 Oct. 1911; ed. Wilson Coll., Bombay, and Bombay Univ. School of Economics; founder-mem. of fmr. Socialist Party; imprisoned five times; Editor of official organ of fmr. Socialist party 1935-39; mem. Nat. Exec. of Socialist Party for 25 years; fmr. Chair. Praja Socialist Party; mem. Lok Sabha 1954-57, 1958-61, 1967-; Deputy Chair. Indian Planning Comm. 1963-66; Minister of Planning 1966-67, of Petroleum, Chemicals and Social Welfare 1967-68; detained under security laws 1975, released May 1976; mem. Cttee. of Janata Party Jan. 1977-. *Publications:* The Communal Triangle in India, Who Owns India, Political Mind of India, Democratic Socialism, Politics of Planned Economy, Socialism and Peasantry, Indian Shipping and The Plan: Perspective and Problems. *Address:* 5 Dadysett Road, Bombay, India. *Telephone:* 35-77-36.

MEHTA, Hansa; Indian educationist and social reformer; b. 3 July 1897, Surat (Gujarat); d. of Sir Manubhat Mehta; m. Dr. Jivraj Mehta (*q.v.*); one s. one d.; ed. Baroda Coll. and Bombay Univ.; Pres. Gujarat Women's Co-operative Society, Bombay 1928-48, The Bhagini Samej, Bombay 1944-52; Parl. Sec. (Educ. and Health) Govt. of Bombay 1937-39; mem. Bombay Legislative Council 1937-39, 1941-52; Vice-Chancellor Indian Women's Univ. 1946-48; Pres. All Indian Women's Conf. 1945-46; mem. Human Rights Comm. 1947-52, Vice-Chair. 1950-52; mem. Bombay Legislative Council 1937-40, Constituent Assembly 1947-50, Secondary Educ. Comm. Govt. of India 1952-; Vice-Chancellor, Maharaja Sayajirao Univ. of Baroda 1949-58; mem. Gen. Advisory Board of Educ., Govt. of India; mem. Exec. Board UNESCO 1958-60; Padma Bhushan 1959; Hon. LL.D. (Leeds) 1964, Hon. D.Litt. (Allahabad) 1958, (Baroda) 1959. *Publications:* (Gujarati) Balwartavali 1926, Kishorvatavali 1928, Tran Natako 1928, Rukmini 1932, Bavalana Parakrano 1934, Golibarni Musafri 1934, Arun ane Adbhut Swapnu 1934, Himalaya Swarup ne Bija Natako 1941, Gujarati trans. Hamlet and Merchant of Venice 1942, 1944; (English) Women under the Hindu Law of Marriage and Succession 1944, Tract on Post-War Educational Reconstruction 1945, Civil Liberties 1945, Adventures of King Vikram 1948. *Leisure interests:* reading, writing, weaving. *Address:* Everest House, 14 Carmichael Road, Bombay 26, India. *Telephone:* 364159.

MEHTA, Zubin (son of violinist Mehli Mehta); Indian conductor; b. 1936, Bombay; ed. Vienna Acad. of Music, studied under Hans Swarowsky; first professional conducting in Belgium and Yugoslavia; Chief Conductor of Montreal Symphony; Musical Dir. Los Angeles Philharmonic Orchestra 1961-78; Musical Dir. New York Philharmonic Orchestra 1978-79; conductor at festivals of Holland, Prague, Vienna, Salzburg and Spoleto; debut at La Scala, Milan 1966; conducts regularly with the Vienna, Berlin and Israel Philharmonic Orchestras; Musical Adviser, Israel Philharmonic 1968-; winner of Liverpool Int. Conductors' Competition 1958; Music Dir. Maggio Musicale, Florence 1969. *Address:* c/o New York Philharmonic Orchestra, 111 West 57th Street, New York, N.Y. 10019, U.S.A.

MEINWALD, Jerrold, M.A., PH.D.; American professor of chemistry; b. 16 Jan. 1927, New York, N.Y.; s. of Dr. Herman Meinwald and Sophie Baskind; m. Dr. Yvonne Chu 1955; two d.; ed. Brooklyn and Queen's Colls., Univ. of Chicago and Harvard Univ.; Instructor in Chem. Cornell Univ. 1952-54, Asst. Prof. 1954-58, Assoc. Prof. 1958-61, Prof. 1961-72, Act. Chair. of Chem. 1968; Prof. of Chem. Univ. of Calif., San Diego 1972-73; Prof. of Chem. Cornell Univ. 1973-; Chemical Consultant, Schering Corpn. 1957-, Norwich Pharmacal Co. 1958-; mem. of Visiting Cttee. for Chem., Brookhaven Nat. Lab. 1969-73; numerous lectureships incl. Louderman Lecturer Washington Univ. 1964, Venable Lecturer Univ. of N. Carolina 1970; Stieglitz Lecturer Univ. of Chicago 1972; Reilly Lecturer, Notre Dame Univ. 1972; Priestly Lecturer, Pa. State Univ. 1973; Sigma Xi, National Lecturer 1975; Plenary Lecturer, 10th Annual Gregynog Natural Products Symposium, Wales 1977; O. M. Smith Lectureship, Oklahoma State Univ. 1978; Andrews Lecturer, Univ. of N.S.W. Australia 1978; C. Purves Lecturer, McGill Univ. 1978; G.E. Centennial Lecturer 1978; Mathers Lecturer, Indiana Univ. 1979; 26th Nat. Organic Chem. Symposium 1979; mem. Medicinal Chem. Study Section "A" of Nat. Insts. of Health 1964-66, Chair. 1966-68; Editorial Board of Organic Reactions 1967-78, Journal of Chemical Ecology 1974-; Chair. Div. of Organic Chem., American Chemical Soc. 1968; Alfred P. Sloan Foundation Fellow 1958-62, Guggenheim Fellow 1960-61, 1976-77, Nat. Insts. of Health Special Postdoctoral Fellow 1967-68; Research Dir. Int. Centre of Insect Physiology and Ecology, Nairobi 1970-77; Advisory Board, Petroleum Research Fund 1970-73, Advisory Board, Research Corpn. 1978-, Advisory Council Dept. of Chem. Princeton Univ. 1978-; Visiting Prof. Rockefeller Univ. 1970; Visiting Prof. Univ. of Calif., San Diego 1970; R. Lemieux lecturer, Univ. of Ottawa 1976; IUPAC symposium on natural products, chemistry, plenary lecturer, Dunedin, N.Z. 1976; Distinguished visiting lecturer, Univ. of N. Carolina 1977, Univ. of Calif., Los Angeles 1978; mem. Nat. Acad. of Sciences, Fellow, American Acad. of Arts and Sciences; Edgar Fahs Smith Award (American Chemical-Soc.) 1977. *Publications:* Over 200 research articles in major chem. journals; Advances in Alicyclic Chemistry Vol. I (Co-Author) 1966. *Leisure interests:* playing flute, baroque flute and recorder. *Address:* Department of Chemistry, Cornell Univ., Ithaca, New York 14853, U.S.A. *Telephone:* 607-256-3301.

MEISTER, Alton, B.S., M.D.; American professor of biochemistry; b. 1 June 1922, New York, N.Y.; s. of Morris and Florence G. Meister; m. Leonora Garten Meister 1943; two s.; ed. Harvard Coll. and Cornell Univ. Medical Coll.; Intern and Asst. Resident, New York Hospital, N.Y. 1946, Chief biochemist 1971-; Commissioned Officer (Biochemical research), Nat. Insts. of Health, Bethesda, Md. 1947-55; Prof. and Chair. Dept. of Biochem., Tufts Univ. School of Medicine, Boston, Mass. 1955-67; Prof. and Chair. Dept. of Biochem., Cornell Univ. Medical Coll. 1967-; Visiting Prof. of Biochem., Univ. of Washington, Seattle 1959, Univ. of Calif. (Berkeley) 1961; Editor Journal of Biological Chem. 1977-; mem. Nat. Acad. of Sciences, Inst. of Medicine of American Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Paul Lewis Award, American Chem. Soc. 1954. *Publications:* Biochemistry of the Amino Acids 1965; various papers and scientific reviews. *Address:* Department of Biochemistry, Cornell University Medical College, 1300 York Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* (212) 472-6212.

MELCHER, John; American politician; b. 6 Sept. 1924, Sioux City, Ia.; m. Ruth Klein 1945; five c.; ed. Univ. of Minnesota, Iowa State Univ.; served U.S. Army 1943-45; Yellowstone Valley Veterinary Clinic, Forsyth, Mont.; Alderman, Forsyth 1953-55, Mayor 1955-61; mem. from Rosebud County, Montana House of Reps. 1961-62, 1969, Montana Senate 1963-67; mem. U.S. House of Reps. from 2nd District of Montana 1969-76; U.S. Senator from Montana Jan. 1977-; Purple Heart, Combat Infantry Badge; Democrat. *Address:* United States Senate, Capitol Hill, Washington, D.C. 20510 (Office); Forsyth, Mont. 59327, U.S.A. (Home).

MELCHIOR, Mogens Gustav Ivar, LL.D.; Danish diplomatist; b. 14 July 1904, Espergaerde; s. of Prof. Dr. med. M. Melchior and Mrs. Melchior (née Asker); m. Karen Westenholz 1935; one s. two d.; ed. Gl. Hellerup Gymnasium and Univ. of Copenhagen; entered Danish Diplomatic Service 1930-; in China, Belgium, Switzerland, Finland, U.S.S.R., Norway, New Zealand and Ministry of Foreign Affairs, Copenhagen; Deputy Under-Sec. of State (Dir.-Gen. of Political Affairs) 1957; Amb. to Turkey 1959-60, to Yugoslavia 1960-68, to Switzerland 1968-74; Knight Commdr. Order of Dan-

nebrog Cross of Honour; Medal for Merit and foreign decorations. *Leisure interests:* history, riding, mountaineering. *Address:* 3115 Gerzensee, Switzerland. *Telephone:* 031/980316; 031/981422.

MELEN, Ferit; Turkish politician; b. 1906, Van; m.; two c.; ed. School of Political Science, Univ. of Ankara. District Officer, Local Admin. 1931-33; Auditor, Ministry of Finance 1933-43, Dir.-Gen. of Incomes 1943-50; Deputy for Van (Repub. People's Party) 1950-64; Minister of Finance 1962-65; Senator for Van 1964-67; mem. Council of Europe 1966-67; participated in formation of Nat. Reliance Party (now part of Republican Reliance Party) 1967, later Deputy Leader; Minister of Nat. Defence 1971-72, 1975-77; Prime Minister 1972-73. *Address:* c/o Milli Guven Partisi, Ankara, Turkey.

MELENTIYEV, Lev Aleksandrovich; Soviet physicist; b. 22 Dec. 1908, St. Petersburg (now Leningrad); ed. Leningrad Polytechnical Inst.; Engineer, Leningrad Power System 1929-33; Chief Designing Bureau, Leningrad Energy Cttee. 1933-35; Senior Lecturer, Prof. Leningrad Eng.-Econ. Inst. 1936-42; Senior Scientific Worker, U.S.S.R. Acad. of Sciences Inst. of Energy 1942-60; Dept. Chief, Prof. Leningrad Eng.-Econ. Inst. 1945-60; Pres. Board U.S.S.R. Acad. of Sciences Eastern Siberian Branch 1960-65; Dir. U.S.S.R. Acad. of Sciences Siberian Dept. Inst. of Energetics 1960-73; Chief of Dept., U.S.S.R. Acad. of Sciences Inst. of High Temperatures 1973-; Deputy Academician and Sec. of Dept. of Physics—Technical Problems of Energetics 1973-; mem. CPSU 1947-; Corresp. mem. U.S.S.R. Acad. of Sciences 1960-66, mem. 1966-; Hero of Socialist Labour 1969, Order of Lenin (twice) and other decorations. *Publications:* Works on general problems of energy development, energy systems and industrial heating, systems analysis in energetics. *Address:* Academy of Sciences of the U.S.S.R., 14 Leninsky Prospekt, Moscow B-71, U.S.S.R.

MELIKISHVILI, Georgiy Aleksandrovich; Soviet (Georgian) historian; b. 30 Dec. 1918, Tbilisi; s. of Aleksandr and Yekaterina; m. Yelena Iosifovna Dochanashvili 1942; one s. two d.; ed. Tbilisi Univ.; works deal with the ancient history of the Near East and Transcaucasia; Prof. Tbilisi Univ.; Dir. of Historical Inst. of Georgian Acad. of Sciences 1965; mem. C.P. 1946-; mem. Acad. of Sciences of Georgian S.S.R. 1960-; Lenin Prize 1957. *Publications:* Nairi-Urartu 1954, Urartian Inscriptions in Cuneiform Characters 1960, History of Ancient Georgia 1959, The Most Ancient Settlers of the Caucasus 1965, Die urartäische Sprache 1971. *Address:* c/o Academy of Sciences, Rizhskaya ulitsa 3, kv. 37, Tbilisi 380030, U.S.S.R. *Telephone:* 22-10-06.

MELLANBY, Kenneth, C.B.E., B.A., PH.D., SC.D.; British entomologist and research worker; b. 26 March 1908, Barrhead, Scotland; s. of Prof. A. L. Mellanby; m. 1st Helen Nielson Dow 1933 (dissolved), 2nd Jean Louie Copeland 1949; one s. one d.; ed. Barnard Castle School, King's Coll., Cambridge, and London Univ.; Research work London School of Hygiene and Tropical Medicine 1930-36, Wandsworth Fellowship 1934; Sorby Research Fellow of the Royal Soc. 1936; Univ. Lecturer Sheffield 1936; Army Service (Major, R.A.M.C.) 1942-45; Dep. Field Dir. M.R.C. Scrub Typhus Comm. in S.E. Asia; Univ. Reader in Medical Entomology, London School of Hygiene and Tropical Medicine 1945-47; research worker 1953-55; Principal Univ. Coll. Ibadan, Nigeria 1947-53; Head of Dept. of Entomology, Rothamsted Experimental Station 1955-61; Dir. Monks Wood Experimental Station Huntingdon 1961-74; Pres. Inst. of Biology, British Assen. Section D; Editor Environmental Pollution; Hon. D.Sc. (Ibadan, Bradford, Leicester); Hon. Prof. of Biology (Leicester); Hon. Professorial Fellow (Univ. Coll., Cardiff). *Publications:* Scabies 1943, Human Guinea Pigs 1945, The Birth of Nigeria's University 1958, Pesticides and Pollution (New Naturalist) 1967, The Mole (New Naturalist) 1971, The Biology of Pollution 1972, Can Britain Feed Itself? 1975, Talpa, The Story of a Mole 1976. *Leisure interests:* gardening, wine and food. *Address:* Hill Farm, Wennington, Huntingdon PE17 2LU, England. *Telephone:* Abbots Ripton 392.

MELLES, Carl; Austrian conductor; b. 15 July 1926, Budapest; m. Gertrud Dertnig 1963; one s. one d.; ed. gymnasium and Acad. of Music, Budapest; Conducts all the major orchestras of Europe; Vienna and Berlin Philharmonic, New Philharmonia London; guest appearances at Salzburg and Bayreuth Festivals and Vienna State Opera; concert tours in Europe, Japan, S. Africa; Franz Liszt Prize, Budapest 1954. *Address:* Grünbergstrasse 4, 1130 Vienna, Austria.

MELLINK, Machteld Johanna, PH.D.; Netherlands archaeologist; b. 26 Oct. 1917, Amsterdam; d. of Johan Mellink and Machteld Kruyff; ed. Amsterdam and Utrecht Univs.; Field Asst. Tarsus excavations 1947-49; Asst. Prof. of Classical Archaeology Bryn Mawr Coll. 1949-53, Assoc. Prof., Chair. Dept. of Classical and Near Eastern Archaeology 1953-62, Prof. 1962-; staff mem. Gordion excavations organized by Pennsylvania Univ. Museum 1950, during which the putative tomb of King Midas was discovered 1957; Field Dir. excavations at Karataş-Semayük in Lycia 1963-; excavator archaic and Graeco-Persian painted tombs near Elmali 1969-. *Publications:* Hyakinthos 1943, A Hittite Cemetery at Gordion 1956; Archaeology in Asia Minor (reports in American Journal of Archaeology) 1955-; Co-author Frühe Stufen der Kunst 1974; Editor Dark Ages and Nomads 1964. *Address:* Bryn Mawr College, Bryn Mawr, Pa. 19010, U.S.A. *Telephone:* (215)LA5-1000.

MELLISH, Rt. Hon. Robert Joseph, P.C., M.P.; British politician; b. 3 March 1913; ed. elementary schools; Army Service 1939-45; Labour M.P. Rotherhithe Div. of Bermondsey 1946-50; Parl. Private Sec. and Financial Sec. to Admiralty 1946-49; M.P. for Bermondsey 1950-74, for Southwark, Bermondsey 1974-; Parl. Private Sec. to Minister of Supply 1950-51, to Minister of Pensions 1951; Joint Parl. Sec. Minister of Housing and Local Govt. 1964-67; Minister of Public Building and Works 1967-69; Parl. Chief Whip, Labour Party 1969-70; Minister of Housing May-June 1970; Opposition Chief Whip 1970-74; Govt. Chief Whip 1974-76; Knight Commdr. of St. Gregory. *Address:* House of Commons, London, S.W.1, England. *Telephone:* 01-219 3000.

MELLON, Paul, M.A.; American business and foundation executive; b. 11 June 1907; ed. Choate School, Yale Univ. and Cambridge Univ.; Pres. and Trustee Nat. Gallery of Art, Washington; Trustee The Andrew W. Mellon Foundation (successor to merged Old Dominion Foundation and Avalon Foundation), N.Y.C.; Trustee, A. W. Mellon Educational and Charitable Trust, Pittsburgh; Hon. K.B.E. 1974. *Address:* 1729 H Street, Washington, D.C. 20006, U.S.A.

MELLOR, Sir John Serocold Paget, Bart.; British business executive; b. 6 July 1893, London; s. of Sir John Mellor, Bt., K.C.B.; one s.; ed. Eton and New Coll., Oxford; Barrister, Inner Temple; Army Service, First World War; Conservative M.P. 1935-55; Dir. Prudential Assurance Co. Ltd. 1946-72, Deputy Chair. 1959-65, Chair. 1965-70, Pres. 1972-77; Dir. City and Int. Trust Ltd., C.L.R.P. Investment Trust Ltd. *Address:* Binley House, nr. Andover, Hants., England.

MELNIKOV, Nikolay Vasiliyevich; Soviet mining engineer and politician; b. 28 Feb. 1909, Sarapul, Udmurt A.S.S.R.; ed. Sverdlovsk Mining Inst.; Engineer and Admin. in mining and coal industries 1934-45; Deputy Minister of Coal Industry in East Areas of U.S.S.R. 1944-48; mem. U.S.S.R. Council of Ministers Bureau for Fuel and Coal Industries 1944-54; Deputy Dir. Inst. of Mining U.S.S.R. Acad. of Sciences 1955-60, Dir. 1960-61; Chair. State Cttee. for Fuel Industry, U.S.S.R. Gosplan 1961-65; Deputy to Supreme Soviet of U.S.S.R. 1962-66; Corresp. mem. Acad. of Sciences of U.S.S.R. 1953-62, mem. 1962-, now mem. Presidium; Head, A. A. Skochinsky Laboratory of Open-Cast Mining, U.S.S.R. Acad. of Sciences 1965-; Chair. of Council for Physical and Engineering Problems of Exploitation of Mineral Resources, U.S.S.R. Acad. of Sciences; joint State prizewinner for fundamental improvement in open-cast coalmining 1946; Order of Lenin and other decorations. *Publications:* Open-Cast Mineral Mining 1948, Drilling Wells and Blast Holes at Open-Cast Workings 1953, Mechanization of Works in Open-Cast Mining 1954, Development of Science in the Field of Open-Cast Mining in the U.S.S.R. 1957, 1961, Reference Book for Engineers and Technicians on Open-Cast Mining Works 1950-62, Fundamentals of Line Technology in Open-Cast Mining 1962, etc. *Address:* A. A. Skochinsky Mining Institute, U.S.S.R. Academy of Sciences, 4 Luybertsy, Moscow Region, U.S.S.R.

MELVILLE, Sir Eugene, K.C.M.G.; British diplomatist (retd.); b. 15 Dec. 1911, Dundee, Scotland; s. of George E. Melville; m. Elizabeth Strachan 1937; two s. one d.; ed. Queen's Park School, Glasgow, and St. Andrews Univ.; Colonial Office 1936; Colonies Supply Mission, Washington 1941-45; Private Sec. to Sec. of State for Colonies 1945-46; Financial Adviser, Control Comm. for Germany 1949-52; Asst. Under-Sec. of State, Colonial Office 1952-61; Asst. Under-Sec. of State, Foreign Office 1961-62; Minister (Econ.), British Embassy, Bonn 1962-65; Perm. U.K. Del. to Council of European Free Trade Assen. (EFTA) and to Gen. Agreement on Tariffs and Trade (GATT) 1965-66; Head of U.K. Mission to Office of UN and other Int. Orgs. in Geneva 1966-71; Special Adviser to Dept. of the Environment on Channel Tunnel 1971-73; Dir.-Gen. British Property Assen. 1974-; Chair. Aldeburgh Festival—Snape Maltings Foundation 1976-; Dir. Metropolitan Housing Trust 1976-; Hon. Treas. British Sailors' Soc. 1976-. *Address:* 35 Catherine Place, London, S.W.1 (Office); 51 Westminster Mansions, Little Smith Street, London, S.W.1; Longcroft, Aldeburgh, Suffolk, England (Homes). *Telephone:* 01-828 0111 (Office); 01-222 4540 (Home).

MELVILLE, Sir Harry (Work), K.C.B., PH.D., D.SC., LL.D., D.C.L., D.TECH., F.R.I.C., F.R.S.; British chemist; b. 27 April 1908, Edinburgh; s. of Thomas Melville; m. Janet Marian Cameron 1942; two d.; ed. George Heriot's School, Edinburgh, Edinburgh Univ. and Trinity Coll., Cambridge; Fellow Trinity Coll., Cambridge 1933-43; Asst. Dir. Colloid Science Laboratory, Cambridge Univ. 1938-40; Prof. of Chemistry, Aberdeen Univ. 1940-48; Scientific Adviser to Chief Superintendent Chemical Defence, Min. of Supply 1940-43; Superintendent Radar Research Station 1943-45; Mason Prof. and Dir. of Chemistry Dept., Birmingham Univ. 1948-56; mem. Advisory Council for Scientific and Industrial Research 1946-51; mem. Scientific Advisory Council, Ministry of Supply 1949-51, 1953-56; Advisory Council on Scientific Research and Development 1953-56; mem. Scientific Advisory Council, British Electricity Authority 1949-56; mem. Scientific Advisory Council, Ministry of Power 1954-60; mem. Advisory Council on Research and Development, Ministry of Power (now Dept. of Trade and Industry) 1960-, Chair. 1970-; Sec. Dept. of Scientific and Industrial Research 1956-65; Chair. Science Research Council 1965-67; Principal Queen Mary Coll., London 1967-76; Cttee. of Managers, Royal Inst. of G.B. 1976. *Publication:* Experimental Methods in Gas Reactions 1938. *Address:* Norwood, Dodds Lane, Chalfont St. Giles, Bucks., England. *Telephone:* Chalfont St. Giles 2222.

MELVILLE, Sir Leslie Galfreid, K.B.E., B.EC.; Australian economist; b. 26 March 1902, Marsfield; m. Mary Maud Seales 1925; two s.; ed. Church of England Grammar School, Sydney, and Univ. of Sydney; Public Actuary of South Australia 1924-28; Prof. of Economics, Univ. of Adelaide 1929-31; mem. of Cttees. on S. Australian Finances 1927-30; mem. of Cttees. on Australian Finances and Unemployment 1931 and 1932; Financial Adviser to Australian Dels. at Imperial Economic Conf. 1932, and to Australian Del. at World Economic Conf. 1933; mem. Australian Financial and Economic Advisory Cttee. 1939; Chair. Australian Del. to UN Monetary Conf., Bretton Woods 1944; mem. Advisory Council of Commonwealth Bank 1945-50; Chair. UN Sub-Comm. on Employment and Econ. Stability 1947-50; Asst. Gov. (Central Banking) Commonwealth Bank of Australia; Exec. Dir. Int. Monetary Fund and Int. Bank for Reconstruction and Devt. Nov. 1950-53; Vice-Chancellor, Australian Nat. Univ. Canberra 1953-60; mem. Board, Reserve Bank 1959-63, 1965-75; Chair. Commonwealth Grants Comm. 1966-74; Chair. Tariff Board 1960-63; Devt. Advisory Service, Int. Bank for Reconstruction and Devt. 1963-65; Hon. LL.D. (Toronto) 1958. *Address:* 71 Stonehaven Crescent, Canberra, Australia. *Telephone:* 811838.

MEMMI, Albert; Tunisian writer; b. 15 Dec. 1920, Tunis; s. of François Memmi and Marguerite née Sarfati; m. Germaine Dubach 1946; two s. one d.; ed. Lycée Carnot, Tunis, Univ. of Algiers and Univ. de Paris à la Sorbonne; Teacher of Philosophy in Tunis 1955; Dir. Psychological Centre, Tunis 1956; Researcher, Centre national de la recherche scientifique, Paris 1959-; Asst. Prof. Ecole pratique des hautes études 1959-66, Prof. 1966-70; Prof., Inst. de Psychanalise, Paris 1968-; Prof. Univ. of Paris 1970-, Dir. Social Sciences Dept., Dir. Anthropological Laboratory; mem. Acad. des Sciences d'Outre-mer; Commdr. Ordre de Nichan Iftikhar; Palmes académiques, Prix de Carthage, Prix Fénéon. *Publications include:* The Pillar of Salt 1953, Strangers 1955, Anthologie des écrivains nord-africains 1955, Colonizer, Colonized 1957, Portrait of a Jew 1962, Le français et le racisme 1965, The Liberation of the Jew 1966, Dominated Man 1968, Racisme 1969, Decolonisation 1970, The Scorpion 1970, Jews and Arabs 1974, La Terre Intérieure 1976, Le Désert 1977. *Address:* 5 rue Saint Merri, Paris 4e, France. *Telephone:* 278-02-63.

MENARD, Henry William, PH.D.; American teacher and researcher; b. 10 Dec. 1920, Fresno, Calif.; s. of Henry William Menard and Blanche Hodges; m. Gifford Merrill 1946; one s. two d.; ed. Calif. Inst. of Technology and Harvard Univ.; Oceanographer, Navy Electronics Lab., San Diego 1949-55; Assoc. Prof. of Marine Geology, Inst. of Marine Resources, Univ. of Calif., San Diego 1955-61, Prof. 1961-; with Office of Science and Technology, Exec. Office of the Pres. 1965-66; Dir. U.S. Geological Survey 1978-; Leader or mem. of numerous Deep-Sea Oceanographic Expeditions; U.S.N.R. service 1942-46; Consultant, American Telephone and Telegraph Co., Rand-McNally, Time-Life; mem. Nat. Acad. of Sciences; Guggenheim Fellow 1962-63; Churchill Fellow 1970-71. *Publications:* Marine Geology of the Pacific 1964, Anatomy of an Expedition 1969, Science: Growth and Change 1971, Geology, Resources and Society 1974. *Leisure interests:* surfing, diving. *Address:* 12201 Sunrise Valley Drive, National Center, Reston, Va. 22092, U.S.A. *Telephone:* (703)860-7411.

MENDE, Erich, DR.IUR.; German politician; b. 28 Oct. 1916; ed. Gross-Strehlitz Coll. and Univs. of Cologne and Bonn; Army service 1936-45; studied law, Univs. of Cologne and Bonn 1945-48, studied political science, Univ. of Cologne 1948-49; co-founder of the Free Democratic Party (FDP), British Occupied Zone 1945, mem. Exec. Cttee. Fed. Org. of FDP 1949-70; mem. Bundestag 1949-; Whip, Parl. Group of FDP and mem. Exec. Cttee. 1950-53; Deputy Chair. Parl. Group of FDP 1953-57, Chair. 1957-63; Chair. FDP 1960-68; Federal Minister for All-German Affairs and Deputy Federal Chancellor 1963-Oct. 1966; left FDP to join Christian Democratic Union (CDU) Oct. 1970; Knight of the Iron Cross. *Publication:* Die Freie Demokratische Partei—Daten, Fakten, Hintergründe 1972. *Address:* 5300 Bonn-Bad Godesberg, Am-Stadtwald 62, Federal Republic of Germany. *Telephone:* Bad Godesberg 35-67-00.

MENDELS, Morton M., O.B.E., M.A., B.C.L.; Canadian lawyer and administrator (retd.); b. 1 March 1908, Montreal; s. of Louis Mendels; m. 1st 1931 (dissolved 1954), one s. one d.; m. 2nd Constance Ladue 1970; ed. McGill Univ., Montreal; entered law practice 1932 serving as legal Counsel to the Canadian Inst. of Plumbing and Heating and as Consultant Economist, served with Canadian Army 1940-45 with final rank of Lt.-Col., Chief of Army Estimates, Finance, and Parl. liaison, Canadian Gen. Staff; Sec. Int. Bank for Reconstruction and Devt. 1946-73. *Leisure interests:* bridge, walking, reading, music. *Address:* 3400 Garrison Street, N.W., Washington, D.C., U.S.A. *Telephone:* (202)363-0081.

MENDELSSOHN, Kurt Alfred Georg, D.PHIL., M.A., F.R.S.; British physicist; b. 7 Jan. 1906, Berlin, Germany; s. of Ernst M. Mendelssohn and Eliza Ruprecht; m. Jutta Lina Charlotte Zarniko 1932; one s. four d.; ed. Goethe School, Berlin, and Berlin Univ.; Research and teaching posts, Berlin Univ. 1929-31, Breslau Univ. 1931-32, Univ. of Oxford 1933-73; Emer. Professorial Fellow of Wolfson Coll., 1973-; Emer. Reader in Physics, Univ. of Oxford; Chair. Int. Cryogenic Engineering Cttee 1969-; Pres. Comm. A2 of Int. Inst. of Refrigeration 1971-76; Consultant U.K.A.E.A. 1973-; Editor Cryogenics 1960-; Visiting Prof. Rice Univ., Tex. 1952, Purdue Univ. 1956, Tokyo Univ. 1960, Kumasi Univ., Ghana 1964, Tata Inst., Bombay 1969-70, Acad. Sinica 1966, 1970; Hughes Medal, Royal Soc. 1967; Simon Memorial Prize, Inst. of Physics and Physical Soc. 1968. *Publications:* What is Atomic Energy? 1946, Cryophysics 1960, The Quest for Absolute Zero 1966, 1977, In China Now 1969, The World of Walther Nernst 1973, The Riddle of the Pyramids 1974, Science and Western Domination 1976; numerous papers and articles on low temperature physics, medical physics, Egyptology and science in various countries. *Leisure interests:* oriental art, photography, Egyptology. *Address:* Wolfson College, Oxford (Office); 235 Iffley Road, Oxford, England (Home). *Telephone:* 56711, 58991 (Office); 43747 (Home).

MENDES, Murilo; Brazilian poet; b. 1901; ed. Rio de Janeiro; studied music, art and literature; Civil servant; journalist; part of "Mouvement Moderniste" 1922-; Prof. of Brazilian Literature, Rome Univ. 1957; Graça Aranha Prize (Brazil) 1931; mem. Int. Asscn. of Art Critics, European Soc. of Culture, European Community of Writers. *Publications:* Poemas 1930, Tempo e Eternidade 1935, A Poesia em Pânico 1938, O Visionário 1941, As Metamorfoses 1944, Mundo Enigma 1945, O Discípulo de Emaús 1944, Poesia Liberdade 1947, Contemplação de Ouro Préto 1954, Poesias Completas 1959, Tempo Espanhol 1959, Siciliana 1959, Janela do Caos 1961, Poesie 1961, A Idade do Serrote 1968. *Address:* Via del Consolato 6, Rome, Italy.

MENDÈS-FRANCE, Pierre, LL.D.; French lawyer, economist and politician; b. 11 Jan. 1907, Paris; two s.; Deputy 1932-40, 1945-58, 1967-68; Professor Ecole Nationale d'Administration; Under-Sec. for the Treasury 1938; tried by Vichy administration 1940; escaped to serve with Fighting French Air Force; Finance Minister French Provisional Govt. 1943-44; Head French Financial Missions Washington and Bretton Woods 1944; Min. of Nat. Economy 1944-45; Prime Minister and Minister of Foreign Affairs June 1954-Feb. 1955; Minister of State without Portfolio Feb.-May 1956; mem. Ind. Comm. on Int. Devt. Issues 1977-; Commdr. de la Légion d'honneur, Croix de guerre, Rosette de la Résistance, Médaille des Evadés, Grand Officier de l'Ordre de Léopold (Belgium). *Publications:* L'oeuvre financière du gouvernement Poincaré, Histoire de la Stabilisation du Franc 1928, Liberté, Liberté Chérie 1943 (trans. into English as The Pursuit of Freedom 1955), La Science Economique et l'Action 1954 (trans. into English), Gouverner c'est Choisir 1953, 7 mois et 7 jours 1955, La Politique et la Vérité 1958, Recontres 1958 (with A. Bevan and P. Nenni), La République Moderne 1962 (trans. into English), Dialogues avec l'Asie d'aujourd'hui 1972, Science économique et lucidité politique (co-author) 1973, Choisir 1974, La Vérité guidait leurs Pas 1977. *Address:* Les Monts, 27-Louviers, France.

MÉNDEZ, Aparicio, D.IUR.; Uruguayan lawyer and politician; b. 24 Aug. 1904, Rivera; s. of Regino Méndez and Jacinta Manfredini;

m. Blanca Alonso González; ed. Univ. de la República, Montevideo; practised law in Montevideo 1930-70; history teacher, Inst. Normal María Staghero de Munar and Inst. Normal Alfredo Vázquez Acevedo 1925-33; successively Tutor, Prof. ad interim and Titular Prof. of Admin. Law at Univ. de la República 1930-55, Sec. of Law Faculty 1930-34; Legal Adviser and Head of Juridical Office of Montevideo 1934-38; Minister of the Electoral Court 1943-46; Minister of Public Health 1961-64; mem. Council of State 1973-, First Vice-Pres. of Council of State 1974-76, Interim Pres. of Council of State and Council of the Nation July-Sept. 1976; Pres. Nat. Security Council and Pres. of Uruguay Sept. 1976-; Dr. h.c. (Univ. of Rio Grande do Sul, Brazil). *Publications:* La Jurisprudencia como fuente del Derecho, Las Jubilaciones en el Uruguay, Estudios de Derecho Administrativo, Las Relaciones interadministrativas, La Teoría del Organo 1971, La Jerarquía, 2nd edn. 1973, Sistemas orgánicos, Vol. I 1973; articles in journals. *Address:* Oficina del Presidente, Montevideo, Uruguay.

MÉNDEZ DOCURRO, Ing. Eugenio; Mexican engineer and politician; b. 17 April 1923, Veracruz; ed. Instituto Politécnico Nacional, Harvard Univ. and Univ. de Paris; Dir.-Gen. of Telecommunications 1953-60; Dir. Instituto Politécnico Nacional 1949-62; mem. Mexican Del. to UNESCO Assembly 1960; Under-Sec. of Communications and Transport 1965-70, Sec. 1970-76. *Address:* c/o Secretaría de Communicaciones y Transportes, Avenida Universidad y Xola, México, D.F., Mexico.

MÉNDEZ MONTENEGRO, Dr. Julio César; Guatemalan law professor and politician; b. 23 Nov. 1915, Guatemala City; s. of Marcial Méndez Mendoza and Mélida Montenegro de Méndez; m. Sara de la Hoz de León 1950; two s. one d.; Prof. of Law, Dean of Faculty of Law, Universidad de San Carlos de Guatemala; Pres. Colegio de Abogados; fmr. Under-Sec. of Admin. and of Foreign Affairs; fmr. Gen. Sec. to the Presidency of the Repub.; Pres. of Guatemala 1966-70; mem. Partido Revolucionario; author of numerous works on law. *Address:* c/o Partido Revolucionario, 14 Avenida 1-42, Zona 6, Guatemala City, Guatemala.

MENEMENCIOĞLU, Turgut; Turkish diplomatist; b. 1914, Istanbul; s. of Muvatfak and Kadriye Menemencioglu; m. Nermin Moran 1944; two s.; ed. Robert Coll., Istanbul and Geneva Univ.; Turkish Ministry of Foreign Affairs 1939-; Perm. Del., European Office UN, Geneva 1950-52; Counsellor, Turkish Embassy, Washington 1952; Dir.-Gen. Econ. Affairs, Ministry of Foreign Affairs 1952-54; Dep. Perm. Rep. to UN 1954-60; Amb. to Canada 1960; Perm. Rep. to UN 1960-62; Amb. to U.S.A. 1962-67; Sec.-Gen. of CENTO (Central Treaty Org.) 1967-72; Adviser to Minister of Foreign Affairs 1971-72; Amb. to U.K. 1972-78. *Address:* Kuloglu Sokak 11, Çankaya, Ankara, Turkey (Home).

MENEN, (Salvator) Aubrey Clarence; British author; b. 22 April 1912, London; s. of Kali Narain Menen and Alice Violet Everett; ed. Univ. Coll., London; Drama Critic, The Bookman 1934; Dir. The Experimental Theatre, London 1935-36; Dir. Personalities Press Service, London 1937-39; Script Editor, Information Films, Govt. of India 1943-45; Educ. Officer, Backward Tribes, Political Dept. of Govt. of India 1946; fmr. Chief of Motion Picture Dept., J. Walter Thompson (Eastern) Ltd. *Publications:* The Prevalence of Witches 1949, The Stumbling Stone 1949, The Backward Bride 1940, The Duke of Gallodoro 1952, Dead Man in the Silver Market 1953, The Ramayana 1954, The Abode of Love 1956, The Fig Tree 1959, Rome for Ourselves 1960, Speaking the Language Like a Native 1962, Shela 1962, A Conspiracy of Women 1965, India 1969, The Space within the Heart 1970, Upon this Rock, Cities in the Sand 1972, The Mystics 1974, Fonthill 1975, London 1976, Venice 1976. *Leisure interests:* archaeology, architecture, travel. *Address:* c/o R. P. Corsini, 12 Beekman Place, New York, N.Y. 10022, U.S.A.

MENEZES, Djacir Lima; Brazilian university rector; b. 16 Nov. 1907, Maranguape, Ceará; s. of Dr. Paulo Elpídio de Menezes and Oda Freire de Lima Menezes; m. Stela Pontes Menezes; three s. one d.; ed. Liceu do Ceará, Faculdade de Direito do Ceará and Univ. do Brasil; Dr., Faculdade de Direito do Ceará 1931-32; Regional Insp. of Educ. 1931; Prof. of Psychology, Escola Normal Justiniano de Serpa 1932-38; Prof. of Law, Faculdade de Direito do Ceará 1938; Teacher, Ceará Military Coll. 1939; Founder and First Dir. Faculdade de Ciencias Economicas do Ceará 1940; also Prof. of Political Science; mem. Nat. Council of Labour 1941-42; Prof. of Political Science and Econ. Theory, Univ. do Brasil; Dir. Teaching Dept., Argentine-Brazilian Cultural Inst., Buenos Aires 1953; Dir. and Founder, Bolivian-Brazilian Cultural Centre, La Paz 1958; Prof. of Brazilian Literature, Univ. Nacional Autónoma de México 1959; Dir. Faculty of Econs., Univ. Federal do Rio de Janeiro 1960-64, Dir. Inst. of Philosophy and Social Sciences 1965; mem. Fed. Council of Culture; Prof. Emer., Univ. Federal do Rio de Janeiro, Rector 1970-72, Pres. 1972-. *Publications include:* O Problema da Realidade 1932, Preparação do Método Científico 1938, As Elites Agressivas 1953, Proudhon, Hegel e a Dialética 1966, Textos Dialéticas de Hegel 1968, O Outro Nordeste 1970, Ideias contra Ideologias 1972, Teses quase Legelianas 1972. *Address:* Universidade Federal do Rio de Janeiro, Cidade Universitária, Ilha do Fundão, Rio de Janeiro (Office); Bulhões de Carbalho, 272-apt. 1001, Rio de Janeiro, Brazil (Home). *Telephone:* 2303882 (Office); 2272998 (Home).

MENGE, Walter Otto; American insurance executive; b. 11 Sept. 1904, Buffalo, N.Y.; s. of Jacob H. Menge and Elizabeth C. Hamelman; m. Elsie C. Cramer 1927; one s. one d.; ed. Wayne Univ. and Univ. of Mich.; Actuary, Grange Life Insurance Co., Lansing, Mich. 1926-28; Assoc. Prof. of Mathematics, Univ. of Mich. 1928-37; Assoc. Actuary, Lincoln Nat. Life Insurance Co., Fort Wayne, Ind. 1937-43, 2nd Vice-Pres. 1943-45, Vice-Pres. 1945-51, First Vice-Pres. 1951-54, Pres. 1954-64, Chair. 1964-69, Hon. Chair. 1969-; Chair. of Board Lincoln Nat. Life Ins. Co. of N.Y. 1961-65; Pres. Reliance Life Insurance Co., Pittsburgh 1951-53; Dir. of several other companies and official of various professional and civic orgs. *Leisure interests:* golf, fishing, gardening. *Address:* 200 Beach Road, Tequesta, Fla. 33458, U.S.A. *Telephone:* (305) 746-4671.

MENGES, Dietrich Wilhelm von, D.IUR.; German business executive; b. 26 Oct. 1909, Wangritten; s. of Gustav Alexander von Menges and Asta Freiin von Buddenbrock; m. Maria von Oppen 1933; one s. four d.; ed. Wilhelm Gymnasium, Königsberg, and Georg-August-Universität zu Göttingen; in Export Dept., Ferrostaal AG, Essen 1938; mem. Man. Board, Ferrostaal AG 1947-49, Chair. of Man. Board 1949-66; mem. Man. Board Gutehoffnungshütte Aktienverein, Oberhausen 1961-66, Chair. Man. Board 1966-75, mem. Supervisory Board 1975-; Chair. Assen. of Chambers of Industry and Commerce, Nordrhein-Westfalen 1974-78; Chair. Supervisory Board Deutsche Industrieanlagen GmbH, Berlin 1975-78; fmr. Chair. and mem. numerous Advisory Boards. *Publication:* Unternehmensentscheide 1976. *Leisure interest:* hunting. *Address:* D4300 Essen 1 (Bredeney), Am Wiesental 16, Federal Republic of Germany. *Telephone:* 0201/222277.

MENGISTU HAILE MARIAM (*see* Mariam, Mengistu Haile).

MENICHELLA, Donato; Italian banker; b. 1896; ed. Inst. Cesare Alfieri, Florence (Dr. of Social Science); employed by Bank of Italy 1922-23, Banca Italiana di Sconto 1923-28; Dir. of National Credit Bank 1929-30; Dir.-Gen. of the Inst. for Industrial Reconstruction 1933-43, of the Bank of Italy 1946-48; Gov. of the Bank of Italy 1948-60, Hon. Gov. 1960-; Pres. of the Italian Foreign Exchange 1948-60; fmr. Dir. Bank for Int. Settlements; Gov. for Italy, Int. Bank for Reconstruction and Development 1948-60, alternate Gov. 1961. *Address:* c/o Bank of Italy, Via Nazionale 91, Rome; Via Merulana 247, Rome, Italy (Home).

MENK, Louis W.; American railroad executive; b. 8 April 1918, Englewood, Colo.; s. of Louis Albert Menk and Daisy Deane Frantz; m. Martha Jane Swan 1942; one s. one d.; ed. S. Denver High School, Denver and Harvard; messenger, telegrapher, Union Pacific Railroad 1937-40; from telegrapher to Chair. and Pres. St. Louis-San Francisco Railroad 1940-65; Pres. and Dir. Burlington Lines 1965-66; Pres. and Dir. Northern Pacific Railway Co. 1966-70; Pres. and Dir. Burlington Inc. March 1970-71, Chair. of Board, Chief Exec. Officer and Dir. 1971-78, Chair. of Board and Dir. June 1978-; Dir. numerous other companies; mem. Board of Trustees, Univ. of Denver, Business Roundtable, New York; mem. Business Council, Washington D.C., Board of Trustees, Conference Board; Seley Award 1970; Hon. LL.D. Drury Coll. 1965, Univ. Denver 1966, Monmouth Coll. 1967. *Address:* BN Building, 176 East 5th Street, St. Paul, Minn. 55101; 2751 Gregory Drive South, Billings, Mont. 59102, U.S.A. (Home).

MENNE, W. Alexander, DR.; German company director (retd.); b. 20 June 1904, Dortmund; m. Marianne Müller 1945; one d.; mem. Bundestag, FDP 1961-69, May-Dec. 1972; Chair. Econ. Cttee. of Bundestag 1965-69; Man. Dir. Glasso Paint Products, London 1929-39; Dir. Glasruit-Werke AG, Hamburg 1939-51, Farbwerke Hoechst AG, Frankfurt 1952-69; mem. board of various companies and banks; Vice-Pres. Fed. of German Industry, Cologne 1949-68, mem. Board 1968-, Chair. of its EEC and Atomic Industry Cttees.; Pres. Assen. of Chemical Industry, Frankfurt 1946-56, mem. Board 1956-; mem. Foreign Trade Advisory Board at Ministry of Economics; Pres. German-American Steuben-Schurz Soc. 1954-75, Hon. Pres. 1975-; Grand Cross Order of Merit with Star (Fed. Repub. of Germany). *Leisure interests:* golfing, hunting, fishing. *Address:* Farbwerke Hoechst AG, Carl Bosch-Haus, Hamburger Allee 26-28, 6000 Frankfurt (Main) 90 (Office); 6242 Kronberg/Ts., Im Brühl 37, Federal Republic of Germany (Home). *Telephone:* (0611) 778279.

MENNER, Vladimir Vasiliyevich; Soviet geologist and paleontologist; b. 24 Nov. 1905, Shatsk, Ryazan Region; ed. Moscow State Univ.; on staff Moscow section Geological Cttee. 1927-29; Asst. Prof. Moscow Mining Acad. 1929-30; Lecturer, Moscow Geology Investigating Inst. 1930-65; Head of Dept. Paleontology, Moscow State Univ. 1965-; Pres. Stratigraphic Comm., Int. Union of Geological Sciences 1968-72, Vice-Pres. 1972-, and Pres. sub-comm. on stratigraphy of paleogens; scientific research work Petroleum Prospecting Inst. 1932-34; U.S.S.R. Acad. of Sciences Paleontological Inst. 1935-36; Senior Scientific Worker, Dept. Chief, Asst. Dir. U.S.S.R. Acad. of Sciences Geological Inst. 1934-; Corresp. mem. U.S.S.R. Acad. of Sciences 1963-66, mem. 1966-; mem. French and London Geological Socs.; Kirov Prize 1951, and various decorations. *Publications:* Biostratigraphic Foundations of the Comparison Maritime, Lagoon and Continental Series 1962. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

MENNIN, Peter, M.MUS., PH.D.; American composer; b. 17 May 1923; m. Georganne Bairnson 1947; one s. one d.; ed. Eastman School of Music and Rochester Univ.; Mem. Composition Faculty, Juilliard School of Music, New York City 1947; Dir. Peabody Conservatory of Music, Baltimore 1958-62; Adviser State Dept. Cttee. on the Arts 1963-; Pres. Juilliard School of Music 1962-; Nat. Music Council, Naumberg Music Foundation; Officer of Nat. Inst. of Arts and Letters; Board of Dirs. A.S.C.A.P., American Music Center; Pres. Nat. Music Council; Pres. Naumberg Music Foundation; works commissioned by Koussevitsky Foundation, Coolidge Foundation, Library of Congress, Juilliard Music Foundation, etc.; works have been performed throughout U.S.A., and in Europe, South America and the Far East; American Acad. of Arts and Letters Award, first George Gershwin Memorial Award, two Guggenheim Awards, Columbia Records Chamber Music Award, Naumburg American Music Recording Award, Bearns Prize (Columbia Univ.). *Compositions include:* eight symphonies, cello concerto, piano concerto and other orchestral works, Sonata Concertante for violin and piano, and other chamber and piano works, choral music, Cantata de Virtute for mixed chorus, children's chorus, soloists, narrator and orchestra, voices for soprano and chamber ensemble, Reflections of Emily for chorus of treble voices and chamber ensemble. *Address:* Juilliard School, Lincoln Center, New York, N.Y. 10023, U.S.A. *Telephone:* (212) 799-5000.

MENNINGER, Karl Augustus; American psychiatrist; b. 22 July 1893, Topeka, Kan.; s. of Charles Frederick and Flora Knisely Menninger; m. 1st Grace Gaines 1916 (dissolved 1941), one s. two d.; m. 2nd Jeanetta Lyle 1941, one d.; ed. Washburn Coll., Indiana Univ., Univ. of Wisconsin and Harvard Univ. Medical School; Chief of Staff, Menninger Clinic 1925-, Dir. Dept. of Educ., Menninger Foundation 1946-62, Dean, Menninger School of Psychiatry 1946-69, Chair. Menninger Foundation 1954-; Pres. American Psychoanalytic Assen. 1941-43; Chair. Cttee. on Reorganisation, American Psychiatric Assen. 1944-49; Dir. Nat. Citizens Comm. for Public Schools 1953-55; mem. Editorial Board, Journal of American Psychoanalytic Assen. 1954-56; Vice-Pres. American Soc. of Criminology 1960-62; Consultant, Bureau of Prisons, Dept. of Justice 1956, Forbes Air Force Base 1960-73; Chair. Educ. Cttee., Topeka Inst. for Psychoanalysis 1960-70; Senior Consultant Topeka State Hospital, Topeka Veterans Admin. Hospital; Prof. Univ. of Health Sciences, Chicago Medical School; mem. Chicago Council on Foreign Relations, Presidential Task Force, Prisoner Rehabilitation 1969, also mem. numerous boards, assens. and acads.; Hon. mem. Royal Medico-Psychological Assen., Environmental Research Foundation; mem. Board of Trustees Fund for Advancement of Camping; Hon. D.Sc.(Washburn Univ., Univ. of Wisconsin) 1965, Hon. L.H.D. (Park Coll., DePaul Univ.) 1974, Hon. LL.D. (Jefferson Medical Coll., Parsons Coll., Kansas State Univ.) 1962, (Saint Benedict's Coll., Baker Univ., Kansas) 1965, (Okla. Univ.) 1966, (Pepperdine Univ.) 1973; numerous awards. *Publications:* Man Against Himself 1938, Love Against Hate 1942, The Human Mind 1945, A Guide to Psychiatric Books 1956 (3rd edn. 1972), A Manual for Psychiatric Case Study 1962, Theory of Psychoanalytic Technique 1958 (revised 1973), A Psychiatrist's World 1959, The Vital Balance 1963, The Crime of Punishment 1968, Whatever Became of Sin 1973, Sparks (with Lucy Freeman) 1973. *Leisure interests:* horticulture, soil conservation, wildlife preservation, chess, recorded music, American Indians, wines. *Address:* The Menninger Foundation, Box 829, Topeka, Kansas 66601 (Office); 1819 Westwood Circle, Topeka, Kansas 66604, U.S.A. (Home).

MENON, Chelat Achutha, B.A., B.L.; Indian politician; b. 27 Jan. 1913, Trichur; s. of M. Achutha Menon; m. Lakshmykutty Amma 1943; one s. two d.; District Court Pleader, Trichur; took part in congress and trade union activities; restricted for one year for anti-war speech 1940; joined Communist Party and detained for communist activities 1942; Sec. District Cttee. of Communist Party 1943-47; underground 1948-52; elected to Travancore-Cochin Legislative Assembly 1952; mem. Kerala Legislative Assembly 1957, later Finance Minister; mem. Rajya Sabha 1968-69; Chief Minister of Kerala Nov. 1969-77. *Publications:* Translation of Short History of the World by H.G. Wells, Soviet Nadu, A Kissan Text Book, Kerala State—Possibilities and Problems, translation of Man Makes Himself by Gordon Child, Sheafs from Memory. *Leisure interest:* literature. *Address:* c/o Communist Party of India, Ajoy Bhavan, Kotla Marg, New Delhi 110002, India.

MENON, K. P. S.; Indian diplomatist; b. 18 Oct. 1898; ed. Madras Christian Coll. and Oxford Univ.; joined ICS 1921; Deputy Sec. to Govt. of India in Foreign and Political Dept.; Agent to Govt. of India in Ceylon 1929-33; fmr. Minister of Bharatpur State; Agent-Gen. in China 1943; Alternate Rep. U.N. Gen. Assembly, N.Y. 1946; Amb. to China 1947-48; Chair. U.N. Temporary Comm. on Korea 1947; Sec. Ministry of Foreign Affairs 1948-52; Amb. to U.S.S.R. 1952-61. *Publications:* The Flying Troika 1963, Many Worlds (autobiog.) 1966, China Past and Present 1969, The Indo-Soviet Treaty—Setting and Sequel 1973. *Address:* Palat House, Ottapalam, Kerala State, India.

MENON, Lakshmi N., M.A., L.T., T.DIP., LL.B.; Indian politician; b. 1899, Trivandrum; d. of Rama Varma Thampan; m. Prof. V. K. N. Menon 1930; ed. H.H. Maharaja's School and Coll. for Women, H.H. Maharaja's Arts Coll., Trivandrum, Lady Willingdon Training Coll., New Delhi, and Maria Grey Training Coll., London, Lucknow Univ.; Lecturer, Queen Mary's Coll., Madras 1922-25, Gokhale Girls Schools, Calcutta 1928-30, Isabella Theburn Coll., Lucknow 1930-33; Alt. Del. to UN Gen. Ass. 1948, 1950, 1953, 1954, to UN Comm. on Status of Women, Beirut 1949; Chief, Section on Status of Women, Human Rights Div., UN Secr., Lake Success 1949-50; Principal, Women's Training Coll., Patna 1951-53; Rep. Cttee. on Information from Non-Self Governing Territories 1953; Parl. Sec. to the Prime Minister 1952-57; Dep. Minister of External Affairs 1957-62; Minister of State, Ministry of External Affairs 1962-66; State Commr. for Guides, Bihar 1952-; Pres. All India Women's Conf. 1955-59, Indian Fed. of Univ. Women 1961-67; mem. Rajya Sabha 1952-66; Chair. Kasturba Gandhi Nat. Memorial Trust 1972-; Life mem. Cochin Univ. Senate 1973-. *Publications:* The Position of Women and articles on women's status, education and participation in public affairs. *Leisure interests:* reading, writing, work among women and children. *Address:* Plain View, Trivandrum, India.

MENON, Mambillikalathil Govind Kumar, M.SC., PH.D., F.R.S.; Indian physicist; b. 28 Aug. 1928, Mangalore; s. of Kizhekepat Sankara Menon and Mambillikalathil Narayaniamma; m. Indumati Patel 1955; one s. one d.; ed. Jaswant Coll., Jodhpur, Royal Inst. of Science, Bombay, Univ. of Bristol; Research Assoc., Univ. of Bristol 1952-53; Senior Award of Royal Comm. for Exhbn. of 1851, Univ. of Bristol 1953-55; Reader Tata Inst. of Fundamental Research, Bombay 1955-58; Assoc. Prof. 1958-60, Prof. and Dean of Physics Faculty 1960-64, Senior Prof. and Deputy Dir. (Physics) 1964-66, Dir. Tata Inst. of Fundamental Research 1966-75; Chair. Electronics Comm. and Sec. to Govt. of India Dept. of Electronics 1971-; Scientific Adviser to Minister of Defence, Dir.-Gen. Defence Research and Devt. Org. and Sec. for Defence Research 1974-78; Pres. Indian Acad. of Sciences 1974-76; Fellow, Indian Nat. Science Acad.; Chair. Cosmic Ray Comm. of Int. Union of Pure and Applied Physics (IUPAP) 1973-75; Pres. Asia Electronics Union 1973-75; council mem. Royal Soc. 1977-79; Hon. Fellow, Inst. of Electronics and Telecommunications Eng. of India; Shanti Swarup Bhatnagar Award for Physical Sciences, Council of Scientific and Industrial Research 1960; Repub. Day (Nat.) Awards, Govt. of India; Padma Shri 1961, Padma Bhushan 1968; Sec. to Govt. of India, Dept. of Electronics; Chair. Electronics Comm.; Scientific Adviser to Minister for Defence 1971-; Foreign Hon. mem. American Acad. of Arts and Sciences; Hon. D.Sc. (Jodhpur, Delhi, Sardar Patel and Allahabad Univs.). *Publications:* 60 papers on cosmic ray and elementary particle physics. *Leisure interests:* bird-watching, photography. *Address:* Department of Electronics, Vigyan Bhavan Annexe, Maulana Azard Road, New Delhi 110011; 81 Lodi Estate, New Delhi 110003, India (Home). *Telephone:* 381310 (Office); 611533 (Home).

MENON, Nedyam Balachandra, B.A.; Indian diplomatist; b. 18 March 1921, South India; s. of K. M. R. Menon; m. Aneet Menon 1947; three s. [redacted] d.; ed. Allahabad Univ.; Indian Navy 1943-46; Indian Embassy, The Hague 1949; Indian Mil. Mission, Berlin 1951; Indian Embassy, Katmandu 1954; High Comm. of India, Ottawa 1957; Indian Embassy, Washington 1959; Ministry of External Affairs Dir. (China Div.) 1961; Nat. Defence Coll. 1964; Indian Embassy, Bangkok and Perm. Del. to ECAFE 1965; Deputy High

Commr., Kuala Lumpur 1966; Political Officer for Sikkim and Bhutan 1967-70; Amb. to Indonesia 1970-73; Joint Sec. Ministry of External Affairs 1973-75; Amb. to Turkey 1975-76, to Nepal Nov. 1976-. *Address:* Embassy of India, P.O. Box 292, Katmandu, Nepal. *Telephone:* 11300.

MENON, Parakat Achutha, B.A.; Indian diplomatist; b. 2 Jan. 1905, Palghat; s. of the late Sir Mannath Krishnan Nair; m. Palat Padmini Menon 1930; one s. one d.; ed. Presidency Coll., Madras, and New Coll., Oxford; joined Indian Civil Service 1929, and held various posts in Madras Provincial Govt. and Cen. Govt., including Under-Sec., Public Works Dept., Govt. of Madras 1934-37; Under-Sec., Home Dept., Govt. of India 1938-41; Collector and District Magistrate, Guntur, Madras 1941-43; mem. Indian Legislative Assembly 1938-39; Deputy Sec. and Sec., India Supply Mission, Washington, D.C. 1944-47; adviser, Indian Del. to UN, San Francisco 1945, New York 1946; served on Far East Comm., Washington, D.C. 1946-47; Del. UNRRA Conf., Atlantic City 1946; Jt. Sec. Ministry of External Affairs, Govt. of India 1947-49; Minister to Portugal 1949-51; Amb. to Belgium and concurrently Minister to Luxembourg 1951-54; Amb. to Thailand 1954-56; High Commr. in Australia and New Zealand 1956-59; Amb. to Argentina 1959-60, to Fed. Germany 1961-64; Chair. Fertilizers and Chemicals Travancore Ltd. (FACT), Kerala 1965-70; Dir. State Bank of India 1965-73, Cochin Refineries Ltd., Mysore Tools Ltd., Premier Breweries Ltd.; Pres. Madras Musical Assn., Fed. of Indo-German Socs. in India; Chair. Madras Industrial Linings Ltd., Indo-German Chamber of Commerce Southern Region Council, Madras Literacy Soc., Madras Kerala Samaj Educ. Soc., Indian Council of World Affairs (Madras Branch); Vice-Pres. Indian Council of World Affairs, New Delhi, Indian Inst. of Public Admin. (Madras Branch); mem. Exec. Council Indian Inst. of Public Admin., New Delhi. *Leisure interests:* reading, music. *Address:* 'Padmaja', 4A Tank Bund Road, Madras 34, India. *Telephone:* 82832 (Home).

MENON, Vatakke Kurupath Narayana, M.A., PH.D.; Indian radio official; b. 27 June 1911, Trichur, Kerala; s. of Parameswaran Nambudiripad; m. Rekha Devi Mukherji 1945; one d.; ed. Univ. of Madras and Edinburgh Univ.; Script Writer, Producer and Adviser for E. Services of BBC during Second World War; returned to India 1947; Dir. of Broadcasting, Baroda State 1947-48; joined All-India Radio as Dir. of Staff Training 1948, became Dir. of Delhi, Madras and Calcutta Stations, Dir. of External Services and Deputy Dir.-Gen.; Sec. Nat. Acad. of Music, Dance and Drama, India 1963-65; Dir.-Gen. All-India Radio 1965-68; Pres. Int. Music Council (UNESCO) 1966-68, 1976-78; mem. Faculty of Music, Delhi Univ.; Exec. Dir. Nat. Centre for the Performing Arts, Bombay 1968-; Vice-Chair. Int. Inst. for Comparative Music Studies, Berlin; Hon. Exec. Dir. Homi Bhabha Fellowship Council 1968-; Trustee Int. Broadcasting Inst. 1969-77; Scholar-in-Residence, Aspen Inst. for Humanistic Studies 1973; Padma Bhushan 1969. *Publications:* Development of William Butler Yeats 1942, 1960, Kerala, a Profile 1961, Balasaraswathi 1963, The Communications Revolution 1976. *Leisure interest:* mass communication media. *Address:* National Centre for the Performing Arts, Nariman Point, Bombay 400021, India. *Telephone:* 310011 (Office); 316364 (Home).

MENOTTI, Gian Carlo; Italian composer; b. 7 July 1911; ed. Curtis Inst. of Music, Philadelphia, Pa.; went to U.S.A. 1928; mem. teaching staff Curtis Inst. of Music 1941-45; Hon. B.M. (Curtis Inst. of Music); Guggenheim Award 1946, 1947; Pulitzer Prize 1950, 1955; Hon. Assoc. Nat. Inst. of Arts and Letters 1953; Pres. Festival of Two Worlds, Spoleto, Italy. *Compositions include:* Operas: Amelia Goes to the Ball, The Old Maid and the Thief, The Island God, The Telephone, The Medium, The Consul, Amahl and the Night Visitors, The Labyrinth (own libretti), The Saint of Bleecker Street 1954, The Last Savage 1963, Martin's Lie 1964, Help, Help, The Glotolinks (space opera for children) 1968, The Most Important Man in the World 1971, Tamu Tamu; Ballet: Sebastian; Film: The Medium (producer); Vanessa (libretto) 1958, The Unicorn, The Gorgon and the Manticore—a Madrigal Fable, Maria Golovin 1959, The Last Superman 1961, The Death of a Bishop of Brindisi (cantata) 1963; chamber music, songs, etc. *Address:* 27 East 62nd Street, New York, N.Y. 10021, U.S.A.

MENSAH, Joseph Henry, M.SC.; Ghanaian politician; b. 31 Oct. 1928; ed. Achimota Coll., Univ. Coll. of Gold Coast (now Univ. of Ghana), London School of Econs. and Stanford Univ.; Asst. Insp. of Taxes 1953; Research Fellow, Univ. Coll. of Gold Coast 1953-57; Lecturer in Economics, Univ. of Ghana 1957-58; Economist, UN H.Q., New York 1958-61; Chief Economist, Prin. Sec. and Exec. Sec. of Nat. Planning Comm. Ghana 1961-65; Economist, UN Dir., Div. of Trade and Econ. Co-operation, and Econ. Comm. for Africa (ECA) 1965-69; Commr. of Finance April-July 1969; M.P. for Sunyani (Progress Party) 1969-72; Minister of Finance 1969-72, and of Econ. Planning 1969-71; arrested Jan. 1972, released July 1973; re-arrested 1975; sentenced to eight years' imprisonment with hard labour Oct. 1975, released June 1978.

MENUHIN, Yehudi; American violinist; b. 22 April 1916, New York; s. of Moshe and Marutha Menuhin; m. 1st Nola Ruby Nicholas 1938, one s. one d.; m. 2nd Diana Rosamund Gould 1947, two s.; ed. privately in America and Europe; studied with Sigmund Anker, Louis Persinger, Georges Enesco (in Romania) and with Adolph Busch in Basel; New York debut 1925, Paris 1927 and Berlin 1929 (with Bruno Walter and the Berlin Philharmonic); first world tour 1935, in retirement 1935-37, subsequently appeared as soloist in orchestras under Toscanini, Furtwängler, Stokowski, Koussevitsky, Beecham, Paul Paray, Walter, Mitropoulos, etc.; has undertaken much research and restoration of neglected compositions; gave numerous benefit concerts during and after World War II; since 1945 has toured extensively all over the world and has made documentary musical films in Europe and America; Pres. Trinity Coll. of Music, London; f. the Yehudi Menuhin School, Surrey 1963; yearly festival at Gstaad 1957-, Bath 1959-68, Windsor 1969; records for His Master's Voice; appeared in film, Raga (with George Harrison and Ravi Shankar) 1974; Hon. D.Mus. (Oxford, Belfast, Leicester, London, Cambridge, Ottawa, Paris, Surrey), Hon. LL.D. (St. Andrews, Liverpool, Sussex, Bath), Hon. D.Lit. (Warwick, Leicester), Hon. Doctorate (California); Mozart Medal 1965, Nehru Award for Peace and Int. Understanding (India) 1970, Sonning Music Prize, Denmark 1972, 30th Anniversary Medal of Israel Philharmonic Orchestra, Canadian Music Council Gold Medal, Rosenberger Medal of Univ. of Chicago; Hon. Swiss Citizen 1970, Freedom of Cities of Edinburgh and Bath; Médaille d'Or de la Ville de Paris, Royal Order of Phoenix, Greece, Légion d'honneur, Order of Leopold, Order of Crown, Belgium, Order of Merit, Germany, Hon. K.B.E. (U.K.). *Publications:* The Violin—Six Lessons with Yehudi Menuhin 1971, Theme and Variations 1972, The Violin 1976, Violin and Viola (with William Primrose) 1976, Unfinished Journey (autiobiography) 1977. *Address:* c/o Harold Holt, 134 Wigmore Street, London, W.1, England.

MENZIES, Arthur Redpath, B.A., M.A.; Canadian diplomatist; b. 29 Nov. 1916; ed. Canadian Acad., Kobe, Japan, Univ. of Toronto and Harvard Univ.; Dept. of External Affairs 1940-, Second Sec., Havana 1945-46; Head of American and Far East Div., Dept. of External Affairs, Ottawa 1948-50; Head of Canadian Liaison Mission, Tokyo 1950, later Chargé d'Affaires, Tokyo; Head, Far Eastern Div., Dept. of External Affairs 1953-58; High Commr. in Malaya 1958-61, concurrently Amb. to Burma 1958-61; Head of Defence Liaison (I) Div., Dept. of External Affairs 1962-65; High Commr. in Australia 1965-72, concurrently High Commr. to Fiji 1970-72; Perm. Rep. to N. Atlantic Council 1972-76; Amb. to People's Repub. of China 1976-, concurrently to Socialist Repub. of Viet-Nam. *Address:* Canadian Embassy, 10 San Li Tun Road, Peking, People's Republic of China.

MENZIES, Sir Peter (Thomson), M.A., F.INST.P., C.I.E.E., F.R.S.A.; British business executive; b. 15 April 1912, Chichester, Sussex; s. of John C. Menzies and Helen S. Aikman; m. Mary McPherson Alexander Menzies 1938; one s. one d.; ed. Musselburgh Grammar School and Univ. of Edinburgh; Inland Revenue Dept. 1933-39; Treasurer's Dept., Imperial Chemical Industries (I.C.I.) Ltd. 1939-47, Asst. Treasurer 1947-52, Deputy Treasurer 1952-56, Finance Dir. 1956-57, Deputy Chair. 1967-72; Chair. Imperial Metal Industries Ltd. 1964-72, Electricity Council 1972-77; Dir. Commercial Union Assurance Co. 1962-; Part-time mem. Central Electricity Generating Bd. 1960-72; Dir. Nat. Westminster Bank Ltd. 1968-; Pres. Int. Union of Producers and Distributors of Electrical Energy (UNIPEDE) 1973-76; Fellow Inst. of Dirs. 1974. *Address:* Kit's Corner, Harmer Green, Welwyn, Herts., England. *Telephone:* 014-387-4386.

MEO, Jean Alfred Emile Edouard; French company director; b. 26 April 1927, Vosne Romanée, Côte d'Or; s. of Gaston Meo and Marcelle Lamarche; m. Nicole Odelin 1955; one s. two d.; ed. Lycée Henri IV, Ecole Polytechnique, Ecole Nat. Supérieure des Mines, Inst. d'Etudes Politiques; operations engineer, Lorraine Basin coalfields 1952-53; Head of sub-regional mineralogical admin., Lille, teacher at Inst. Industriel du Nord 1954-56; technical adviser to Minister of Finance 1957; worked in office of Gen. de Gaulle 1958, in Secr. of Presidency 1959-60; Chief Engineer Corps des Mines 1966-; Asst. Man. Dir., later Man. Dir. Union Générale des Pétroles 1964-72 (name changed to Elf Union 1967); Asst. Man. Dir. div. of refining and distribution, ERAP 1966-72 (name changed to Elf-Entreprise Pétrolière 1967); mem. Bd. of Dirs. and Man. Dir. SOCANTAR 1970-72; Deputy Man. Dir. France-Editions et Publications 1972-74; Deputy Man. Dir. attached to Chair., Agence Havas 1974, Pres. and Man. Dir. June 1974-; Chair. and Man. Dir.

Avenir Publicité 1974-76; Chevalier, Légion d'honneur. *Address:* 136 Avenue Charles de Gaulle, 92200 Neuilly-sur-Seine; 9 Villa Saïd, 75116 Paris, France (Home).

MERCADO JARRIN, Gen. Luis Edgardo; Peruvian army officer and politician; b. 19 Sept. 1919, Barranco, Lima; s. of Dr. Alejandro Mercado Ballón and Florinda Jarrín de Mercado; m. Gladys Neumann Teran de Mercado 1951; one s. four d.; ed. primary and secondary school, Colegio la Libertad de Moquegua, Escuela Militar de Chorrillos; commissioned 1940, Gen. of Div. Jan. 1970-; Prof. Escuela Militar, Escuela de Artillería, Escuela Superior de Guerra, Centro de Altos Estudios Militares, etc.; Dir. of Army Intelligence; del. of Peruvian Army to several inter-American army confs.; guest lecturer to U.S. Army, Fort Holabird and Fort Bragg; Commdt.-Gen. Centro do Instrucción Militar del Perú 1968; Minister of Foreign Affairs 1968-71; Army Chief of Staff Jan.-Dec. 1972; Prime Minister and Minister of War 1973-75; awards include Grand Cross of Orden Militar de Ayacucho and Orden al Mérito Militar, Orden del Sol and orders from Colombia, Portugal, Argentina, Bolivia, Brazil and Venezuela. *Publications:* La Política y la Estrategia Militar en la Guerra Contrasubversiba en América Latina, El Ejército de Hoy en Nuestra Sociedad en Período de Transición y en el Campo Internacional, El Ejército y la Empresa; contributor to magazine of Interamerican Defence Coll., U.S.A., Revista Militar del Perú, Brazilian Military Journal. *Leisure interests:* tennis, riding, classical music, reading (contemporary, military philosophy, sociology and economics). *Address:* Avenida Velasco Astete 1140, Chacarrilla del Estanque, Lima, Peru. *Telephone:* 256823.

MERCER, Robert Edward, B.E.; American company executive; b. 29 March 1924, Elizabeth, N.J.; s. of George W. and Margaret E. Mercer; m. Mary Magdalene Deuel; three s. two d.; ed. Yale Univ.; Pres., Kelly-Springfield Tire Co. 1974-76; Vice-Pres., Marketing, Goodyear Tire and Rubber Co. 1976, Exec. Vice-Pres. and Pres. Tire Div. 1976-78, Pres. Goodyear Tire and Rubber Co. 1978-. *Leisure interests:* baseball, golf. *Address:* Goodyear Tire and Rubber Co., 1144 East Market Street, Akron, Ohio 44316 (Office); 514 North Portage Path, Akron, Ohio 44303, U.S.A. (Home). *Telephone:* (216) 794-4790 (Office); (216) 864-8462 (Home).

MERCIER, Pierre; French doctor of medicine; b. 6 Aug. 1910, Auxerre, Yonne; m. Yvonne Magniat 1936; one s. one d.; ed. Lycée Auxerre and Faculté de Médecine, Univ. of Paris; Asst. Hôpital Raymond-Poincaré 1938-51; successively research worker, lab. head and section head, Institut Pasteur, Paris 1938-51; Dir. Institut Pasteur, Athens 1951-62; Attaché French Embassy, Athens 1951-62; Asst. Sec.-Gen. Inst. Pasteur 1963-66, Sec.-Gen. Jan.-June 1966, Dir. 1966-71, Hon. Dir. 1971-; Technical Adviser to Minister of Health 1971-; mem. Acad. de Médecine; Officier, Légion d'honneur, Officer, Order of George I and Commdr. Order of Phoenix (Greece), Chevalier, Ordre de Léopold. *Publications:* over 140 works from 1934-62. *Address:* 11 bis avenue Emile-Deschanel, 75007 Paris, France.

MERCOURI, Melina; Greek film actress; b. 18 Oct. 1925; m. Jules Dassin (*q.v.*). *Films include:* Stella 1955, He Who Must Die 1956, Gipsy and the Gentleman, Never on Sunday 1959, Phaedra 1961, The Victors 1963, Light of Day 1963, Les pianos mécaniques 1964, A Man Could Get Killed 1966, 10.30 p.m. Summer 1966, Gaily, Gaily 1970, Promise at Dawn 1970, Once Is Not Enough 1975, Nasty Habits 1976, Maya and Brenda 1977, A Dream of Passion 1978; song and dance version of Never on Sunday called Illya Darling, Broadway 1967, Lysistrata (musical) 1972, played Medae in The Medea (production on Mount Lycabettos, Greece); mem. Parl. (PASOK) 1977-. *Publication:* I was Born Greek (autobiography) 1971. *Address:* c/o Alain Bernheim, 16 avenue Hoche, Paris 8e, France.

MERCURE, Jean; French actor and theatrical director; b. 27 March 1909; ed. Lycée Rollin, Paris; Dir. Théâtre de la Ville, Paris; has directed and played leading roles in The Flashing Stream, Skipper Next to God, Miss Mabel, Living Room, La volupté de l'honneur, Tea and Sympathy, Sur la terre comme au ciel, Sud, Cardinal d'Espagne, Vol de nuit, Six personages en quête d'auteur 1968, L'engrenage 1969, La guerre de Troie n'aura pas lieu 1971, Les possédés 1972, The National Health, Zoo de Vercors 1975, La visite de la vieille dame 1976; Grand Prix de la Mise en Scène 1953, Prix de la meilleure réalisation lyrique for Vol de Nuit 1960; Officier, Légion d'honneur; Commdr. des Arts et Lettres. *Publications:* French adaptations of Skipper Next to God (J. de Hartog), Sur la terre comme au ciel (with R. Thieberger) (Hochwälder), Le silence de la mer (Vercors), Thunder Rock (Ardrey), The Living Room, The Potting Shed (Greene) and The Royal Hunt of the Sun (Shaffer). *Address:* 12 Villa Leandre, 75018 Paris, France.

MERIKOSKI, Veli Kaarlo, DR. IUR.; Finnish politician and university professor; b. 2 Jan. 1905, Pyhtaa; s. of Kaarlo Merikoski and Salli Nevalainen; m. Wava Margit Winge 1941 (died 1968); two s. one d.; ed. Helsinki Univ.; Asst. teacher of Public Law, Helsinki Univ. 1936, Prof. of Admin. Law 1941-69, Dean, Faculty of Law 1947-51; mem. High Court of Impeachment 1950-71; Chair. Union of Finnish Lawyers 1946-51, 1956-58; Chair. Finnish People's Party 1958-61; Minister of Foreign Affairs 1962-63; mem. Hague Int. Court of Arbitration 1966-; mem. Finnish Acad. of Science and Letters; Pres. Int. Assen. of Univs. 1970-75, Hon. Pres. 1975-; Chancellor of Turku School of Economics 1974-77; numerous awards and decorations. *Publications:* Freedom of Association 1935, The Concept of Dispensation 1936, The System of Government Grants 1938, Textbook of Finnish Public Law, Vol. I 1944, Vol. II 1946, Lectures on the Legal Aspect of Social Welfare 1948, The Rule of Law 1953, Juridical Position of Universities and Student Organisations 1954, Précis du droit public de la Finlande 1954, The Citizen's ABC-book 1955, Finnish Public Law, Vol. I 1952, Vol. II 1962, Le pouvoir discrétionnaire de l'administration 1958, The System of Legal Protection in Administration 1959, University Autonomy 1966, The Politicization of Public Administration 1969, The Question of University Administration in Finland 1969-1970 1970. *Address:* Urheilutie 15 A 2, 02700 Kauniainen, Finland. *Telephone:* 50-25-15.

MERINO CASTRO, Admiral José Toribio; Chilean naval officer; b. 14 Dec. 1915; m. Gabriela Margarita Riofrío Busto 1952; three d.; ed. Naval Acad.; specialized as Gunnery Officer, Naval Acad.; naval service on Maipo 1936, Rancagua 1940, Instructor Blanco Encalada; Div. Officer Almirante Latorre 1943; Artillery Officer Serrano 1945; Commdr. of Corvette Papudo 1952; Technical Adviser of Armaments 1955; Commdr. of Destroyer Williams 1962, Riveros 1963; Chief of Staff of the Fleet 1964; Chief of Gen. Staff 1964; Staff Coll. Course 1965, 1966-69; C.-in-C. of the Fleet 1971, 1972; C.-in-C. of First Naval Zone 1972, 1973; C.-in-C. of Navy 1973-78; mem. Gov. Council 1973-78; Armed Forces Medal III, II, Grand Star of Merit, Cross for Naval Merit, Decoration of Pres. of Repub. (Chile). *Address:* c/o Naval Headquarters, Santiago, Chile.

MERRITT, Benjamin Dean, A.B., A.M., LL.D., PH.D., D.LITT., L.H.D.; American philologist; b. 31 March 1899, Durham, N.C.; s. of Arthur H. and Cornelia (Dean) Meritt; m. 1st Elizabeth Kirkland 1923, 2nd Lucy T. Shoe 1964; two s.; ed. Hamilton Coll., American School of Classical Studies, Athens, and Princeton Univ.; Instructor in Greek, Univ. of Vermont 1923-24, Brown Univ. 1924-25; Asst. Prof. of Greek, Princeton Univ. 1925-26; Asst. Dir. American School of Classical Studies, Athens 1926-28, Visiting Prof. 1932-33, 1969-70, Annual Prof. 1936, 1954-55; Associate Prof. of Greek and Latin, Univ. of Michigan 1928-29, Prof. 1929-33; Dir. Athens Coll. 1932-33; Francis White Prof. of Greek, Johns Hopkins Univ. 1933-35; Prof. Inst. for Advanced Study, Princeton 1935-69; Eastman Prof., Oxford 1945-46; Sather Prof. Univ. of Calif. 1959; Visiting Prof. Univ. of Texas 1971-72, Visiting Scholar 1973-; Fellow American Acad. of Arts and Sciences; hon. councillor, Greek Archaeological Society; mem. American Philological Assen. 1922-, Pres. 1953; corresp. mem. Royal Flemish Acad.; mem. American Philosophical Soc.; corresp. mem. British Acad.; hon. mem. Soc. for the promotion of Hellenic Studies; mem. German Archaeological Inst.; Commdr. Royal Order of Phoenix (Greece) and Commdr. Royal Order of George I (Greece). *Publications:* The Athenian Calendar in the Fifth Century 1928, Supplementum Epigraphicum Græum, Vol. V (with Allen B. West) 1931, Corinth, Vol. VIII, Part I, Greek Inscriptions 1931, Athenian Financial Documents 1932, The Athenian Assessment of 425 B.C. (with Allen B. West) 1934, Documents on Athenian Tribute 1937, The Athenian Tribute Lists (with H.T. Wade-Gery and M.F. McGregor), Vol. I 1939, Vol. II 1949, Vol. III 1950, Vol. IV 1953, The Chronology of Hellenistic Athens (with W.K. Pritchett) 1940, Epigraphica Attica 1940, The Athenian Year 1961, Agara XV: The Athenian Councillors (with John S. Traill) 1974. *Address:* 712 West 16th Street, Austin, Tex. 78701, U.S.A. *Telephone:* Austin 476-3103.

MERKULOV, Vasiliy Yefimovich; Soviet foreign trade official; b. 1917; ed. Moscow Petroleum Inst. and Academy of Foreign Trade; mem. CPSU 1944-; Dir. of Office, Soyuzneftexport Trust 1950-51; Man. Dir., later Gen. Dir. Joint-Stock Soc., Finland 1951-56; Vice-Chair. Soyuzneftexport Trust 1957-64; U.S.S.R. Commercial Rep. in U.A.R. 1964-68; Chair. All-Union Assen. Soyuzneftexport 1968-; Order of Lenin, Order of Patriotic War, Second Degree. *Address:* All-Union Association Soyuzneftexport, U.S.S.R. Ministry of Foreign Trade, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

MERLE D'AUBIGNÉ, Robert Aimé; French surgeon; b. 23 July 1900, Neuilly; s. of Charles Merle d'Aubigné and Lucy Maury;

m. Anna de Gunzburg 1932; one s. one d.; ed. Lycée Pasteur, Univ. of Paris; hosp. surgeon 1936-39; Capt. in medical corps 1939-41; active in Resistance; Prof. of Orthopaedic and Reconstructive Surgery, Univ. of Paris 1948-70; Surgeon, Cochin Hospital 1948-60; Dean of Faculty, Cochin 1968-69; mem. Acad. des Sciences, Institut de France, Acad. of Surgery, Nat. Acad. of Medicine and many French and int. learned socs.; Grand Officier, Légion d'honneur; Officier, Ordre de la Résistance; Croix de guerre; Officier Ordre de la Santé publique. *Leisure interests:* mountaineering, sailing. *Address:* Achères-la-Forêt, 77116 Ury, France. *Telephone:* 424-40-94.

MERRICK, David; American theatrical producer; b. 27 Nov. 1912; m. Etan Aronson; ed. St. Louis Univ.; producer of numerous plays on Broadway, including Fanny 1954, The Matchmaker 1955, Look Back in Anger, Romanoff and Juliet, Jamaica 1957, The Entertainer, The World of Suzie Wong, La plume de ma tante, Epitaph for George Dillon, Maria Golovin 1958, Destry Rides Again, Gypsy, Take Me Along 1959, The Good Soup, Vintage '60', Irma la Douce, A Taste of Honey, Becket, Do Re Me 1960, Carnival 1961, Sunday in New York 1961, Ross 1961, I Can Get it for You Wholesale 1962, Stop the World, I Want to Get Off 1962, Tchin Tchin 1962, Oliver! 1962, Rehearsal 1963, Hello Dolly 1964, Pickwick 1965, Inadmissible Evidence 1965, Cactus Flower 1965, Marat/Sade 1965, Don't Drink the Water 1966, I do! I do! 1966, Philadelphia, Here I Come 1966, Rosencrantz and Guildenstern Are Dead 1967, How Now, Dow Jones 1967, The Happy Time 1967, Promises Promises 1968, 40 Carats 1968, Play It Again Sam 1969, Private Lives 1969, Child's Play 1970, A Midsummer Night's Dream, Four on a Garden, The Philanthropist 1971, There's One in Every Marriage, Vivat, Vivat Regina!, Moonchildren, Sugar 1972, Child's Play 1972, Out Cry 1973, Mack and Mabel 1974, Dreyfus in Rehearsal 1974, Travesties, The Red Devil Battery Sign, Very Good Eddie 1975; produced film The Great Gatsby 1974. *Address:* 246 West 44th Street, New York, N.Y., U.S.A. *Telephone:* 212-LO-3-7520.

MERRIFIELD, (Robert) Bruce; American biochemist; b. 15 July 1921, Texas; s. of George and Lorene Merrifield; m. Elizabeth Furlong 1949; six c.; ed. Univ. of California, Los Angeles (U.C.L.A.); Chemist, Park Research Foundation 1943-44; Teaching Asst., Chem. Dept. U.C.L.A. 1944-47, Research Asst., Medical School 1948-49; Asst. to Assoc. Prof. Rockefeller Inst. 1949-66, Prof. of Biochemistry 1966-; developed solid phase peptide synthesis; mem. Nat. Acad. of Sciences; Nobel Guest Prof. 1968; Lasker Award 1969, Gairdner Award 1970, Intra-Science Award 1970, A.C.S. Award 1972, Nichols Award 1973. *Publications:* 95 articles in various scientific journals. *Leisure interests:* tennis, camping, hiking. *Address:* Rockefeller University, New York, N.Y. 10021; 43 Mezzine Drive, Cresskill, N.J. 07626, U.S.A. (Home). *Telephone:* 212-360-1461 (Office); 201-567-0329 (Home).

MERRILL, John Ogden; American architect; b. 10 Aug. 1896; ed. Wisconsin Univ., M.I.T.; Chief Architect, Mid-Western States Fed. Housing Admin. 1939; in partnership with Skidmore and Owings 1939-58, 1959-, with whom he designed numerous govt. projects and private buildings including Oak Ridge, Tennessee, U.S. base at Okinawa, Lever House, New York, Terrace Plaza Hotel, Cincinnati, etc.; Fellow, American Inst. of Architects; Vice-Pres. San Francisco Planning and Urban Renewal Assn. 1969-71; Chair. Bd. of Trustees, San Francisco Art Inst. 1967-72; Trustee, Portland Art Inst. 1959-61; World Affairs Council, Portland 1958-60. *Address:* 101 Gardner Place, Colorado Springs, Colo. 80906, U.S.A.

MERRILL, Maurice Hitchcock, A.B., LL.B., S.J.D.; American lawyer and university teacher; b. 3 Oct. 1897, Washington, D.C.; s. of George Waite and Mary Lavinia (Hitchcock) Merrill; m. Orpha Roberts 1922 (died 1971); one d.; ed. Univ. of Oklahoma and Harvard Univ.; served in U.S. Army 1918; taught in Univ. of Okla. 1919-22; practised law in Tulsa, Okla. 1922-26; Assoc. Prof. of Law, Univ. of Idaho 1925-26; Asst. Prof. of Law, Univ. of Nebraska 1926-28, Prof. of Law 1928-36; Prof. of Law, Univ. of Okla. 1936-50, Research Prof. of Law 1950-68, Research Prof. Emer. 1968, Act. Dean 1945-46; Law practice Norman, Okla. 1968-; Gen. Counsel, Okla. Assn. of Municipal Attorneys 1971-; mem. Judicial Council of Okla. 1945-46, 1947-65; Commr. from Okla. to Nat Conf. of Commrs. on Uniform State Laws 1944-, mem. Exec. Cttee. 1961-68, Vice-Pres. 1963-67, Chair. Okla. del. 1949-; mem. Panel of Labor Arbitrators U.S. Conciliation Service 1946-; mem. Nat. Acad. of Arbitrators, Permanent Editorial Bd. for Uniform Commercial Code 1963-75; Bd. of Advisers S.W. Inst. of Local Govt. Law 1968-75; mem. Special Comm. on Constitutional Revision (Okla.) 1969-70; Fellow, American Bar Foundation 1956-; Hon. D.Hum.Litt. (Okla. Christian Coll.) 1974; Hatton W. Sumners Award 1964; Distinguished Service Citation, Univ. of Okla. 1968; Okla. Hall of Fame 1970; President's Award, Okla. Bar Assn. 1972. *Publications:* Law of Covenants Implied in Gas and Oil Leases 1926, Nebraska Annotations to Restatement of Contracts (with William Sternberg and Lester B. Orfield) 1932, Nebraska Annotations to Restatement of Agency 1933, Oklahoma Annotations to Restatement of Agency 1940; mem. Bd. of Eds. and Ed. for Volume III (The Nation and the States), Selected Essays on Constitutional Law 1938, Cases and Materials on Administrative Law 1950, Law of Notice 1952, Administrative Law (American Case-book Series) 1954, The Public's Concern with the Fuel Minerals 1960, Lawyer from Wewoka Switch 1979. *Leisure interests:* writing, gardening. *Address:* 302 Law Center Building, 300 W. Timberdoll Road, University of Oklahoma, Norman, Oklahoma 73019 (Office); 800 Elm Avenue, Norman, Oklahoma 73069, U.S.A. (Home). *Telephone:* 325-4373 (Office); 321-6585 (Home).

MERRILL, Robert; American baritone; b. 4 June 1919, Brooklyn, New York; s. of Abraham Miller and Lillian (née Balaban) Merrill; m. Marion Machno 1954; one s. one d; debut at Metropolitan Opera as Germont (La Traviata) 1945; has since appeared throughout U.S.A. and Europe in most of the baritone repertoire including: Gerard (Andrea Chenier), Renato (Un Ballo in Maschera), Figaro (Il Barbiere di Siviglia), Rodrigo (Don Carlos), Scarpia (Tosca), Amonasro (Aida) and Rigoletto; many concert and television appearances; frequent recordings. *Publications:* Once More from the Beginning 1965, Between Acts 1976, The Divas 1978. *Leisure interests:* art and golf. *Address:* c/o Metropolitan Opera Association, Lincoln Center, New York, N.Y. 10023, U.S.A.

MERRISON, Sir Alexander Walter, Kt., D.L., PH.D., F.R.S.; British nuclear physicist and university vice-chancellor; b. 20 March 1924, London; s. of Violet Henrietta Merrison and the late Henry Walter Merrison; m. 1st Beryl Glencora Le Marquand 1948 (died 1968), 2nd Maureen Michele Barry 1970; three s. one d.; ed. Enfield Grammar School and King's Coll., London; Experimental Officer, Signals Research and Devt. Establishment, Christchurch, Hants. 1944-46; Sr. Scientific Officer, Atomic Energy Research Establishment, Harwell 1946-51; Leverhulme Fellow and Lecturer, Univ. of Liverpool 1951-57, Prof. of Experimental Physics 1960-69; Physicist European Org. for Nuclear Research (CERN), Geneva 1957-60; Dir. Daresbury Nuclear Physics Lab., Science Research Council 1962-69; Vice-Chancellor, Univ. of Bristol 1969-; Chair. Advisory Bd. for the Research Councils 1978-; mem. Severn Barrage Cttee. 1978-; Fellow, Inst. of Physics; Charles Vernon Boys Prize of Inst. of Physics and Physical Soc. 1961. *Publications:* Contributions to scientific journals on nuclear and elementary particle physics. *Address:* Senate House, Tyndall Avenue, Bristol, England. *Telephone:* 0272-24161.

MERSZEI, Zoltan, LL.D., D.SC.; Canadian company executive; b. 30 Sept. 1922, Budapest, Hungary; m. Ilona Eisele 1946; two s. one d.; ed. Jozsef Nador Polytechnicum, Budapest, Fed. Polytechnic Inst., Zürich, Northwood Inst., Albion Coll.; Pres. of Dow Chemical Europe 1965-75; Mem., Bd. of Dirs., Dow Chemical Co. 1968, Vice-Pres. and mem. of Exec. Cttee. 1971, Exec. Vice-Pres. 1975, Pres. and Chief Exec. Officer 1976, Chair. 1978-; Chair., Dow Chemical of Canada 1975; bd. mem., Dow Banking Corpn., Handelsbank. *Leisure interest:* skiing. *Address:* The Dow Chemical Company, 2030 Dow Center, Midland, Mich. 48640, U.S.A. *Telephone:* (517) 636-0351.

MERTENS DE WILMARS, Jonkheer (Ecuyer) Jacques E.M.J., DR. JUR., DR. POL. AND SOC. ECON., LIC. PHIL: Belgian economist, univ. prof. and banker; b. 1 Feb. 1917, Oxford, England; m. Anne-Marie de Meester de Heyndonck 1947; one s. three d.; ed. Univ. Leuven; Barrister 1939-45; Asst. Faculty of Econ. and Social Sciences, Leuven Univ. 1939-43, Lecturer 1944, Asst. Prof. 1945, Prof. 1949, Dean 1962-63; Chair. Inst. of Econ. Science 1961-64; Econ. Adviser to Minister of Finance 1945-46 and 1947-48; Attaché, Nat. Bank Belgium 1943, Sec. Gov. 1946, Adviser 1948, Chief Econ. Studies 1953-58, Deputy Dir. 1961-65, Adviser to Bd. 1965-68, Econ. Adviser 1968-; Chief of Cabinet to Prime Minister 1958-61, Hon. Chief of Cabinet to Prime Minister 1961; mem. UN Population Comm. 1951-64, Vice-Chair. 1955-58, Chair. 1959-63; mem. Pontifical Comm. on Problems of Population, Family and Birth 1964-66; mem. Belgian Del. ECOSOC (UN) 1952, Special Financial Mission, UN Technical Assistance, Iran 1952, Arbitration Comm. to Indonesia 1953-56; Deputy mem. Monetary Cttee. EEC 1958-, Chair Deputies 1968-74; Vice-Chair. Comité de Politque Conjoncturelle EEC 1960-71; Officer Order of Léopold, Commdr. Order Crown, Commdr. Order of Orange-Nassau, Commdr. Order Merit (Austria), Commdr. Order Crown of Oak (Luxembourg), Commdr. Order St. Gregorius the Great (Holy See). *Publications:* La naissance et le développement de l'étalon-or 1696-1922 1944, La politique du plein

emploi et ses limites 1952, Les objectifs de la politique économique sont-ils compatibles entre-eux? 1962, The Economics of Aid to Less-Developed Countries 1963, De Recente Hervormingen van het I.M.F. en de Toekomst van het Internationale Geldstelsel 1968, Vaste of Fluctuerende Wisselkoersen 1970, The Relaunching and Pursuit of Economic and Monetary Union 1972. *Leisure interests:* golf, swimming. *Address:* 228 Winston Churchill Avenue, 1180 Brussels, Belgium. *Telephone:* 02/343-73-85.

MERTENS DE WILMARS, Joseph H. C., D.L., D.POL.SC.; Belgian lawyer; b. 22 June 1912, St. Niklaas; s. of Albert Mertens de Wilmars and Jeanne Meert; m. Betty van Ormelingen 1939; eight c.; ed. Abbey School St. Andries, Bruges, Univ. of Louvain; mem. Bar 1935-67; Assessor, Conseil d'Etat 1948-51; M.P. 1951-61; Prof. of Law, Univ. of Louvain 1967-; Judge, Court of Justice of European Communities 1967-, now a Pres. of the Chamber; Knight Order of Léopold. *Address:* B-2020, Antwerp, Belgium. *Telephone:* 352-4303-231 (Office); 0032-31-380768 (Home).

MERTIN, Klaus, D.RER. POL.; German banker; b. 9 March 1922; Vice-Chair. Bd. of Dirs. Deutsche Bank Berlin AG, Berlin, Deutsche Centralbodenkeit-AG, Berlin/Cologne; mem. Bd. of Dirs. Badenwerk AG, Karlsruhe, Dierig Holding AG. Augsburg, FRANKONA Rückversicherungs-AG, Munich, German American Capital Corpn., Baltimore, Md., U.S.A., Karstadt AG, Essen, Salamander AG, Kornwestheim; mem. Advisory Bd. BARMENIA Versicherungen, Wuppertal; Dir. Deutsche Bank Compagnie Financière Luxembourg. *Address:* Deutsche Bank AG, Grosse Gallusstrasse 10-14, 6000 Frankfurt am Main, Federal Republic of Germany.

MERTON, Robert K., PH.D.; American professor of sociology; b. 5 July 1910, Philadelphia, Pa.; m. Suzanne Carhart 1934; one s. two d.; ed. Temple Univ. and Harvard Univ.; Tutor and Instructor in Sociology, Harvard Univ. 1936-39; Assoc. Prof. and Prof. Tulane Univ. 1939-41; Asst. Prof. to Prof., Columbia Univ. 1941-63, Giddings Prof. of Sociology 1963-74, Univ. Prof. 1974-; Assoc. Dir., Bureau of Applied Social Research, Columbia Univ. 1942-70; Co-Chair., Centre for the Social Sciences, Columbia Univ. 1976-; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences, Nat. Acad. of Educ., World Acad. of Arts and Sciences; Pres. American Sociological Assn. 1957, Sociological Research Assn. 1968, Eastern Sociological Soc. 1969; Pres. Soc. for Social Studies of Science 1975-76; mem. John Simon Guggenheim Memorial Foundation Educ. Advisory Bd. 1964-, Chair. 1971-; Foreign mem., Royal Swedish Acad. of Sciences 1977; many hon. degrees; Prize for Dist. Scholarship in Humanities, American Council of Learned Socs.; Lectureship in Recognition of Outstanding Scientific Achievement, Nat. Insts. of Health. *Publications:* Science, Technology and Society in 17th-Century England 1938, 1971, Mass Persuasion 1946, Social Theory & Social Structure 1949, 1968, Continuities in Social Research 1950, Reader in Bureaucracy 1952, Focused Interview 1956, Student-Physician 1957, Freedom to Read 1957, Sociology Today 1959, Contemporary Social Problems 1961, 1971, 1976, On the Shoulders of Giants 1965, On Theoretical Sociology 1968, Social Theory and Functional Analysis 1969, Sociology of Science 1973, Sociological Ambivalence 1976, Toward a Metric of Science 1978, The Sociology of Science in Europe 1977, (ed. with James Coleman and Peter Rossi) Qualitative and Quantitative Social Research: Papers in Honor of Paul Lazarsfeld 1979. *Address:* Department of Sociology, Fayerweather 415, Columbia University, New York, N.Y. 10027, U.S.A. *Telephone:* 212-280-3696.

MERZAGORA, Cesare; Italian industrialist and politician; b. 9 Nov. 1898, Milan; s. of Luigi and Fenini Elisa Merzagora; m. Giuliana Benucci 1933; four d.; served in First World War 1915-18; Dir. Banca Commerciale Italiana in Bulgaria 1920-27; also Italian Consul at Philippopolis; founder of anti-fascist newspaper La Voce d'Italia, suppressed in 1924; Dir. of banking institutes in foreign countries 1927-38; Dir. of Pirelli and associated firms 1938; mem. of Liberation Movement in Northern Italy; Pres. of its Cen. Econ. Comm.; Minister of Foreign Trade in fourth and fifth De Gasperi Cabinets 1947-49; Senator (Independent, Milan) 1948-; Pres. of the Senate 1953-67, Life Senator 1963-; Acting Pres. of Italy Aug.-Dec. 1964; Chair. Assicurazioni Generali April 1968-; Chair. Montedison 1970. *Address:* 1 Via di Villa Grazioli, Rome, Italy. *Telephone:* 856-267.

MERZBAN, Mohammed Abdullah, M.A.; Egyptian politician; b. 20 Jan. 1918, Fayoum; m.; ed. Fouad Univ. and Harvard Univ.; Lecturer, Faculty of Commerce, Cairo Univ. until 1956; Sec.-Gen. Ministry of Industry 1956-58; Gen. Man. Industrialization Authority 1958-60; Chair. Al-Nasr Org. 1960-61; Chair. Spinning & Weaving Org. 1961-66; Chair. Bank of Cairo 1966-68; Minister of Supply and Home Trade 1968-70, of Economy and Foreign Trade 1970-73; Acting Minister of Supply and Home Trade 1971-73; Deputy Prime Minister 1972-73; Pres. Investrade. *Publications:* Financial Management, Sales Management, Mathematics of Marketing. *Address:* c/o Investrade, 5 Talaat Harb Street, Cairo, Egypt. *Telephone:* 23785-26785.

MESELSON, Matthew Stanley, PH.B., PH.D., F.A.A.A.S.; American professor of biology; b. 24 May 1930, Denver, Colo.; s. of Hymen Avram and Ann Swedlow Meselson; m. Sarah Leah Page 1969; two d.; ed. Univ. of Chicago and California Inst. of Technology; Research Fellow, Calif. Inst. of Technology 1957-58, Asst. Prof. of Physical Chem. 1958-59, Sr. Research Fellow in Chemical Biology 1959-60; Assoc. Prof. of Biology, Harvard Univ. 1960-64, Prof. of Biology 1964-; Prize for Molecular Biology, Nat. Acad. of Sciences 1963, Eli Lilly Award in Microbiology and Immunology 1964; mem. U.S. Nat. Acad. of Sciences, Inst. of Medicine, Academia Santa Chiara; Hon. D.Sc. (Columbia) 1971, (Chicago) 1975; Public Service Award, Fed. of American Scientists 1972 Alumni Medal, Univ. of Chicago Alumni Assn. 1971, Alumni Distinguished Service Award, Calif. Inst. of Technology 1975, Leo Szilard Award, American Physical Soc. 1978. *Publications:* numerous papers on the biochemistry and molecular biology of nucleic acids, and on [redacted] control of biological and chemical weapons, in various numbers of Proceedings of Nat. Acad. of Sciences and of Journal of Molecular Biology, etc. *Address:* The Biological Laboratories, 16 Divinity Avenue, Harvard University, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-2264.

MESHEL, Yeruham; Israeli trade unionist; b. 24 Nov. 1912, Pinsk, Russia; m. Rachel Frank 1939; one s. one d.; immigrated to Palestine 1933; Sec. Metal Workers' Union, Tel-Aviv, mem. Tel-Aviv Labour Council Exec. 1945; mem. Trade Union Centre of Histadrut Exec. Cttee., Chair. Industrial Workers' Div. 1950-60, mem. Cen. Exec. Bureau 1960-, Chair. Trade Union Centre 1961, Deputy Sec.-Gen. Histadrut 1964-74, Head of Histadrut Social Security Centre and Arab Workers' Dept., Acting Sec.-Gen. 1973, Sec.-Gen. 1974-; mem. Cen. Cttee. of Mapai 1961, mem. Secr. Israel Labour Party 1964; Vice-Pres. ICFTU, Vice-Pres. Asian Regional Org., ICFTU; rep. to numerous int. labour confs. *Address:* Histadrut, 93 Arlosorof Street, Tel-Aviv, Israel. *Telephone:* (03) 261111.

MESKILL, Thomas Joseph, B.S.; American lawyer and politician; b. 30 Jan. 1928, New Britain, Conn.; s. of late Thomas Joseph Meskill and of Laura Ryan Meskill; three s. two d.; ed. New Britain Senior High School, Trinity Coll., Hartford, Univ. of Connecticut Law School and New York Univ. School of Law; Asst. Corpn. Counsel, New Britain 1960-62; Mayor of New Britain 1962-64; Corpn. Counsel 1965-66; elected to Congress 1966, 1968; Gov. of Connecticut 1970-75; Judge U.S. Circuit Court 1975-; mem. American Bar Assn.; Republican; *Address:* 990 Prospect Avenue, Hartford, Conn. 06105, U.S.A. *Telephone:* 203-523-7014.

MESNIL DU BUISSON, Robert Du, Count, D. ès L., D. en D; French archaeologist; b. 19 April 1895, Bourges; s. of late Léon Count du Mesnil du Buisson and Berthe Roussel de Courcy; m. 1st Jeanne Le Clerc de Pulligny 1923 (died 1964), four s. two d.; m. 2nd Pauline Husson de Sampigny 1965; Dir. French Archaeological Missions in Syria, Egypt and France; Dir. Excavation at Palmyra 1965-; Pres. Société Nat. des Antiquaries de France 1946-47; Pres. Société Historique et Archéologique de l'Orne 1947-55; Hon. Pres. 1956-; Pres. Soc. du Manoir d'Argentelles 1957-; Dir. du Centre Culturel et Touristique de l'Orne 1967-; Vice-Pres. Soc. d'Ethnographie de Paris 1960-69, Pres. 1969-; Dir.-Founder of cultural review of Orne region Au Pays d'Argentelles 1976-; Commdr. Légion d'Honneur 1966; Lauréat de l'Institut de France 1940, 1958, 1963; Médaille d'Or de la Société d'Encouragement au Progrès 1973, Croix du Combattant de l'Europe 1974. *Publications:* Les ruines d'El-Mishrifé au Nord-Est de Homs 1927, La technique des fouilles archéologiques 1933, Le site archéologique de Mishrifé-Qatna 1935, Les [redacted] et signes égyptiens désignant des vases 1935, Souran et Tell Masin 1935, Le site de Qadesh 1936, Inscriptions juives de Doura-Europos 1937, Inventaire des inscriptions palmyréniennes de Doura-Europos 1939, Les peintures de la Synagogue de Doura 245-246 ap. J-C. 1939, Les tessères et monnaies de Palmyre 1944, Les ouvrages du siège à Doura-Europos 1945, Le site archéologique d'Exmes (Uxoma) 1946, Le sautoir d'Atargatis et la chaîne d'amulettes 1947, Baghouz, l'ancienne Corsôte 1948, Une voie commerciale de haute antiquité dans l'Orne 1951, Les dieux et les déesses en forme de vase dans l'antiquité orientale, La palissade gauloise d'Alençon 1952, L'alcôve royale dite "Lit de Justice d'Argentelles" 1953, Un constructeur du Château de La Celle-Saint-Cloud, Jacques Jérémie Roussel 1954, Saint-Germain-en-Laye 1954, Poissy 1955, Chantilly 1957, Une famille de Chevaliers de Malte, les Costart 1960, Plaques de cheminées de l'Orne 1947-76, Les tessères et les monnaies de Palmyre de la Bibliothèque Nationale 1962, Inscriptions sur jarres de Doura-

Europos 1959, Origine et évolution du panthéon de Tyr, Les Chausson de la Salle 1963, Le dieu-Griffon à Palmyre et chez les Hittites 1963, Les origines du panthéon Palmyrénien 1964, Le dieu Ousô sur des monnaies de Tyr 1965, Le drame des deux étoiles du matin et du soir dans l'antiquité orientale 1967, Le décor des deux cuves de Tell Mardikh 1967, Le Manoir d'Argentelles, Guide du visiteur, Origines phéniciennes des Dioscures, Le décor asiatique du couteau de Gebel el-Arak 1969, Etudes sur les dieux phéniciens hérités par l'Empire Romain 1970, Nouvelles études sur les dieux et les mythes de Canaan 1973, Géographie et astronomie mythiques, Les voyages de Gilgamesh 1974, Le mythe de la Tour de Babel 1976, Le cylindre-sceau archaique de Byblos réexaminé 1976, Origine et évolution de la ville de Sées 1977. *Leisure interests:* Preservation of buildings and art objects in the Orne region of France. *Address:* 63 rue de Varenne, Paris 7e, France, and Château de Champobert, par 61310 Exmes (Orne), France. *Telephone:* (Paris) 705-00-06; (Orne) 33-67-93-61.

MESSER, Thomas M., B.A., M.A.; American museum director; b. 9 Feb. 1920, Bratislava, Czechoslovakia; s. of Richard and Agatha (Albrecht) Messer; m. Remedios Garcia Villa 1948; ed. Thiel Coll. (Greenville, Pa.), Boston, Paris and Harvard Univs.; Dir., Roswell Museum, New Mexico 1949-52; Asst. Dir. in charge of Nat. Exhibitions Programme, American Fed. of Arts 1952-53, Dir. of Exhbns. 1953-55, Dir. 1955-56, Trustee 1972-; Dir., Boston Inst. of Contemporary Art 1957-61, Solomon R. Guggenheim Museum, New York 1961-; First Vice-Pres. American Fed. of Arts 1973-75; Pres. Asscn. of Art Museum Dirs. 1974-75; Chair. Int. Cttee. for Museums and Collections of Modern Art, Int. Council of Museums 1974-77; Chair. Int. Exhbns. Cttee. 1976-78; Adjunct Prof., Harvard Univ. 1960; Adjunct Prof. of Art History, Barnard Coll. 1966, 1971; Sr. Fellow, Center for Advanced Studies, Wesleyan Univ. 1966; Trustee Center for Inter-American Relations 1974-77; Trustee U.S. Int. Council of Museums 1970-; Trustee and Chair. Admissions Comm. of MacDowell Colony Corpn. 1977-78; Trustee, Wooster School; mem. Museum Advisory Panel of Nat. Endowment for the Arts, Art Advisory Panel to Commr. of Internal Revenue Service 1974-77, Visiting Cttee. on Art Museums, Harvard Univ., Bd. of Visitors, School of Visual Arts, Boston Univ., Cttee. on Art, Port Authority of New York and New Jersey; Dr. Fine Arts h.c., (Cttee. Century Asscn.) 1973-76; Dr. Fine Arts h.c., (Univ. of Mass.); Knight, Royal Order of St. Olav (Norway). *Publications:* Edvard Munch 1973; Museum Catalogues on: Vasily Kandinsky, Paul Klee, Edvard Munch, Egon Schiele, etc.; articles and contributions to art journals, Art in America, Art International, American Scholar, Arts, Art News, Saturday Review/World, Studio International, The Art Gallery. *Leisure interests:* the theatre, literature, music. *Address:* The Solomon R. Guggenheim Museum, 1071 Fifth Avenue, New York, N.Y. 10028; 1105 Park Avenue, New York, N.Y., U.S.A. (Home). *Telephone:* (212) 860-1309.

MESSERER, Asaf Mikhailovich; Soviet choreographer and dancer; b. 19 Nov. 1903; ed. Moscow School of Choreography; joined the Bolshoi Theatre Co. 1921, Lecturer Moscow choreographical Inst. 1923-60; ballet instructor for Bolshoi Theatre 1946-; Honoured worker of the Arts of Lithuania 1953; mem. CPSU 1944-; Premier Danseur to 1954; People's Artist of the R.S.F.S.R. 1951; State prize-winner 1941, 1947, other decorations. *Principal roles in:* Swan Lake, The Nutcracker by Tchaikovsky, Don Quixote by Minkus, Flames of Paris, Fountain of Bakhchisarai by Asafiev, Red Poppy by Gliere, Petrushka by Stravinsky, etc. *Publications:* Exercises in Classical Dancing 1967. *Address:* State Academic Bolshoi Theatre, 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

MESSIAEN, Olivier; French composer and organist; b. 10 Dec. 1908, Avignon, Vaucluse; s. of Pierre Messiaen and Cécile Sauvage; m. 1st Claire Delbos (died 1959), one s.; m. 2nd Yvonne Loriod 1961; Organist, Trinité, Paris 1931-; Co-founder Jeune-France movement 1936; Prof. Ecole Normale and Schola Cantorum 1936-39; Prof. of Harmony, Paris Conservatoire 1941-47, of Analysis, Aesthetics and Rhythm 1947-, of Composition 1966-; mem. Institut de France, Akad. der Künste, Berlin, Bayerische Akad. der Wissenschaften, Munich, Royal Acads. of Sweden, London and Madrid, American Acad. of Arts and Letters; Erasmus Prize 1971; Sibelius Prize 1971, Von Siemens Prize 1975, Leonie Sonning Prize 1977; Grand Officier de la Légion d'honneur, Grand Officier de l'Ordre national du Mérite, Commdr. des Arts et des Lettres. *Compositions include:* Le banquet céleste for organ 1928, Préludes for piano 1929, Le diptyque for organ 1929, L'ascension for organ 1933, La nativité du Seigneur for organ 1935, Poèmes pour Mi for voice and piano 1936, Chants de terre et de ciel for voice and piano 1938, Les corps glorieux for organ 1939, Quatuor pour la fin du temps for violin, cello, clarinet and piano 1941, Visions de l'amen for two pianos 1943, Vingt regards sur l'enfant Jésus for piano 1944, Trois petites liturgies de la présence divine for choir and orchestra 1944, Harawi song cycle 1945, Turangalila Symphonie for piano, onde and orchestra 1946-48, Cinq rechants for choir ■ capella 1949, Etudes de rythme for piano 1949, Messe de la Pentecôte for organ 1949, Livre d'orgue 1951, Réveil des oiseaux 1953, Oiseaux exotiques 1955, Catalogue d'oiseaux for piano 1956-58, Chronochromie for large orchestra 1959, Sept Haïkaï for piano and small orchestra 1963, Couleurs de la cité céleste for orchestra 1964, Et Exspecto Resurrectionem Mortuorum for orchestra 1965, La transfiguration de notre Seigneur Jésus-Christ for choir, orchestra and seven instrumental soloists 1969, Des canyons aux etoiles for piano and orchestra 1970-74. *Address:* 230 rue Marcadet, 75018 Paris, France.

MESSMER, Pierre Auguste Joseph, LL.D.; French politician and overseas administrator; b. 20 March 1916, Vincennes; s. of Joseph and Marthe (née Farcy) Messmer; m. Gilberte Duprez 1947; ed. Faculté de droit de Paris; mil. service with "Free French" forces 1940-45; Sec.-Gen. Interministerial Cttee. for Indochina 1946; Dir. of Cabinet High Comm. in Indochina 1947-48; Gov. Mauritania 1952, Ivory Coast 1954-56; High Commr. Cameroon 1956-58; High Commr.-Gen. French Equatorial Africa 1958, French West Africa 1958-60; Minister for the Armed Forces 1960-69; Minister of State for Overseas Depts. and Territories Feb.-July 1972; Prime Minister 1972-74; Deputy to Nat. Assembly 1974-; Commdr. Légion d'honneur, Compagnon de la Libération, Croix de guerre. *Address:* 1 rue de Général-Delanne, 92200 Neuilly-sur-Seine, France.

MESTIRI, Mahmoud; Tunisian diplomatist; b. 25 Dec. 1929, Tunis; s. of Mohamed Mestiri and Zohra Lasram; divorced; one s. one d.; ed. Inst. d'Etudes Politiques, Univ. de Lyons; served in several Tunisian Dels. to UN; Alt. Rep. to UN 1958, 1959; Head of Tunisian special Diplomatic Mission to Congo (Leopoldville) 1960; Asst. to Personal Rep. of UN Sec.-Gen. to Govt. of Belgium 1961; Deputy Perm. Rep. of Tunisia to UN 1962-65: Sec.-Gen. for Foreign Affairs, Tunis 1965-67; Perm. Rep. to UN 1967-69; Chair. UN Special Cttee. on the Granting of Independence to Colonial Countries and Peoples 1968-69; Amb. to Fed. Germany 1971-73, to U.S.S.R., also accred. to Poland 1973-76; Perm. Rep. to UN 1976-. *Leisure interests:* ping-pong, swimming, watching football. *Address:* Permanent Mission of Tunisia to the United Nations, 40 East 71st Street, New York, N.Y. 10021, U.S.A.

MESYATS, Valentin Karpovich; Soviet politician; b. 1 May 1928, Prokopyevsk, Kamerovo Region; m. Irina Mesyats; three d.; ed. Timiryazev Agricultural Acad., Moscow; Chief Agronomist, Dir. Motor Tractor Station, Moscow District 1953-58; engaged in party and state work 1958-63; Second Sec. for Agric., Moscow District Cttee. CPSU 1963-64, Sec. 1964-65; Second Sec. Cen. Cttee. CPSU, Kazakhstan 1971-76; Deputy Minister of Agric. R.S.F.S.R. 1965-71; Minister of Agric. U.S.S.R. March 1976-; Chair. All-Union Council of Collective Farms 1976-; mem. Presidium of Supreme Soviet, Kazakhstan S.S.R. 1971-76; del. to U.S.S.R. Supreme Soviet; Chair. Mandate Comm. of the Soviet of the Union 1972-76; mem. CPSU 1955-; Order of Lenin. *Leisure interests:* sports. *Address:* Council of Ministers, The Kremlin, Moscow; 1/11, Orlikov per., Moscow, U.S.S.R. (Home).

METCALF, George C.; Canadian business executive; Pres. and Man. Dir. George Weston Ltd.; Chair. of numerous cos. including Eddy Paper Co. Ltd., E. B. Eddy Co., Mawen's Ltd.; G. J. Hamilton & Sons Ltd., Howardsgate Holdings Ltd., Loblaw Inc., Nat. Tea Co., Westfair Foods Ltd., Somerville Industries; Pres. Loblaw Cos. Ltd., Loblaw Grocetarias Co. Ltd., Paulin Chambers Co. Ltd., Perrin Investments Ltd.; Dir. Weston Biscuit Co. Inc., etc. *Address:* George Weston Ltd., 25 King Street, West, Toronto, Ontario; 22 Rosemary Lane, Toronto 10, Ontario, Canada (Home).

METCALF, Gordon M.; American business executive; ed. Morningside Coll., Iowa, and Northwestern Univ. School of Commerce; joined Sears, Roebuck and Co. 1933, Gen. Man. Kansas City zone 1945, Asst. to Pres. in charge of retail admin. 1946, Gen. Man. Chicago area 1948-57, Vice-Pres. Midwest Territory 1957-67, Chair. of Bd. and Chief Exec. Officer 1967-73, now Dir.; Chair. U.S. Industrial Payroll Savings Cttee. 1970; Dir. Allstate Insurance Co., First Nat. Bank of Chicago, First Nat. City Bank of New York, Simpson-Sears Ltd., TRW Inc., U.S. Steel Corpn., Radio Free Europe; Trustee, Nat. Industrial Conf. Bd.; mem. Business Council. *Address:* Savings and Profit Sharing Fund of Sears Employees, Sears Tower, Chicago, Ill. 60684, U.S.A.

METCALF, Keyes DeWitt, A.B., LITT.D., L.H.D., LL.D.; American librarian; b. 13 April 1889, Elyria, Ohio; s. of Isaac Stevens and Harriet Howes Metcalf; m. 1st Martha A. Gerrish 1914 (died 1938), 2nd Elinor Gregory 1941; one s. one d.; ed. Oberlin Coll.; Exec. Asst. Oberlin Coll. Library 1912, Acting Librarian 1916-17; Chief of Stacks New York Public Library 1913-16 and 1917-18, Exec. Asst.

1919-27, Chief of Reference Dept. 1928-37; Librarian Harvard Coll., Dir.Harvard Univ.Library 1937-55, Emeritus 1955-; Pres. American Library Assn. 1942-43; Prof. of Bibliography, Harvard Univ. 1945-55; Prof. of Library Admin., Rutgers Univ. 1955-58; library consultant 1955-; Fulbright Lecturer, Nat. Commonwealth Library, Canberra, Australia 1958-59; Consultant in over 500 libraries in 46 states and assignments in Australia, New Zealand, India, South Africa, Ethiopia, Libya, Middle East, Thailand, The Philippines, Ireland, England, Western Europe, Japan, Latin America, Costa Rica and Canada 1955-72; Fulbright Distinguished Scholar, Queen's Univ. Belfast 1966; Lecturer, York, England 1966; mem. Bibliographical Socs., America and Great Britain; thirteen hon. doctorates including Harvard, Yale, Oberlin, Notre Dame and Toronto Univs; New York Public Library 50th Anniversary Award for services to research libraries; Academic and Research Libraries of the Year Award 1978. *Publications:* Planning Academic and Research Library Buildings 1965, Study of Library Lighting 1970, and 175 articles in professional periodicals. *Leisure interests:* gardening, walking. *Address:* 68 Fairmont Street, Belmont, Mass. 02178, U.S.A. *Telephone:* 484-3699.

METCALF, Robert Lee, M.A., PH.D.; American entomologist; b. 13 Nov. 1916, Columbus, Ohio; ed. Univ. of Illinois and Cornell Univ.; Asst. Entomologist, Tenn. Valley Authority, Wilson Dam 1943-44, Assoc. Entomologist 1944-46; Asst. Entomologist Univ. of Calif., Riverside 1946-49, Assoc. Entomologist 1949-53, Prof. of Entomology and Entomologist 1953-68, Chair. Entomology Dept. 1951-63, Vice-Chancellor 1963-66; Prof. of Entomology, Univ. of Ill. 1968-; Principal Scientist, Ill. Nat. History Survey 1970-; mem. Nat. Acad. of Sciences, N.A.S. Nat. Research Council Exec. Cttee. of Div. of Biology and Agric., N.A.S. Agric. Bd., Entomological Soc. of America (Pres. 1958), A.C.S., A.A.A.S., American Mosquito Control Assn., WHO Expert Cttee. on Insecticides; Chair. Panel on Pesticides, U.S.—Japan Co-op. Science Program, Nat. Science Foundation; mem. Subpanel on Pesticides, President's Science Advisory Cttee.; Consultant to WHO, AID, U.S. Dept. of Agric., U.S. Tenn. Valley Authority; Faculty Research Lecturer, Univ. of Calif., Riverside, Calif. 1959; Ed. Advances in Pest Control Research 1956-; Order of Cherubini, Univ. of Pisa, Italy 1966; Int. Award Pesticide Chem. 1972; Charles F. Spencer Award, A.C.S. 1966; Chancellor's Award for Excellence in Research, Univ. of Calif., Riverside 1967. *Publications:* Destructive and Useful Insects, Organic Insecticides—Their Chemistry and Mode of Action; Co-ed. Advances in Environmental Sciences Technology; approx. 250 scientific publs. mainly on chemistry and toxicology of insecticides, insect physiology and toxicology, medical entomology, insect control. *Address:* Department of Entomology, University of Illinois, Urbana, Ill. 61801 (Office); 1902 Golfview Drive, Urbana, Ill. 61801, U.S.A. (Home).

METHVEN, Donald James, M.A. (OXON); British lawyer and business executive; b. 24 Aug. 1914, London; s. of late Sir Harry Methven, K.B.E. and Lady Methven; m. Pamela Joan Sidebottom 1941; one s. two d.; ed. Wellington Coll. and Magdalen Coll., Oxford; qualified ■ barrister 1937, as solicitor on leaving the Bar 1946; mil. service, finishing in Mil. Operations Branch of War Office with rank of Maj. 1939-45; Partner, Stephenson, Harwood, Solicitors 1946-73; Chair. Cadbury Schweppes Europe Ltd. 1973; Deputy Chair. Cadbury Schweppes Ltd. Jan. 1975-. *Leisure interests:* shooting, walking, golf. *Address:* Cadbury Schweppes Ltd., 1/10 Connaught Place, London W.2; Thatchers, Russells Water, Henley-on-Thames, Oxon., England (Home).

METHVEN, Sir (Malcolm) John, Kt., M.A., LL.B.; British lawyer; b. 14 Feb. 1926, Southampton; s. of Col. M. D. Methven and Mrs. H. M. Methven; m. 1st Margaret Field 1952, three d.; m. 2nd Karen Jane Caldwell 1977; ed. Mill Hill School, Gonville and Caius Coll., Cambridge; Asst. Solicitor, Birmingham Corpn. 1952-57; Legal Dept., ICI Ltd. 1957-68, Head of Cen. Purchasing Dept. 1968-70, Deputy Chair. Mond Div. 1970-73; Dir.-Gen. of Fair Trading 1973-76; Dir.-Gen. CBI June 1976-; part-time mem. Monopolies Comm. 1972-73; mem. Cttee. on Industrial Democracy 1975-76; mem. Council Inst. for Fiscal Studies 1977-; Pres. British Industry 1500 Club. *Leisure interests:* music, sailing, reading. *Address:* Confederation of British Industry, 21 Tothill Street, London, SW1H 9LP, England. *Telephone:* 01-930 6711.

METTLER, Ruben Frederick, B.S., M.S., PH.D.; American electrical engineer and business executive; b. 23 Feb. 1924, Shafter, Calif.; s. of Henry F. and Lydia Mettler; m. Donna Jean Smith 1955; two s.; ed. California Inst. of Technology; Assoc. Dir. of Radar Div., Hughes Aircraft Co. 1949-54; Asst. to Asst. Sec. of Defense for Research and Devt. 1954-55; Assoc. Dir. of Guided Missile Research Div. and Thor Program Dir., The Ramo-Woolridge Corpn. 1955-57; Vice-Pres. The Ramo-Woolridge Corpn. 1957-58; Exec. Vice-Pres. Space Technology Labs. 1958-62; Pres. TRW Systems Group (formerly Space Technology Labs.) 1962-68; Exec. Vice-Pres. TRW Inc. 1965-68, Exec. Vice-Pres. and Asst. Pres. 1968-69, Pres. 1969-77, Chair. and Chief Exec. Officer Dec. 1977-; Chair. Nat. Alliance of Business (NAB) 1978-, mem. Bd. of Dirs, Bank of America, Goodyear Tire and Rubber Co., Inc.; mem. Bd. of Trustees Caltech Assn., Cttee. for Econ. Devt. (CED), Nat. Safety Council, Cleveland Clinic Foundation, Nat. Fund for Minority Eng. Students; mem. Nat. Acad. of Eng.; Fellow, Inst. of Electrical and Electronics Engineers, American Inst. of Aeronautics and Astronautics, American Astronautical Soc.; mem. Advisory Bd. Council for Financial Educ.; Outstanding Young Electrical Engineer 1954; S. Calif. "Engineer of the Year" 1964; Distinguished Service Award, Caltech 1965; Distinguished Civilian Meritorious Award, Dept. of Defense 1969. *Publications:* several book length classified reports on airborne electronic systems; holds joint patent for major interceptor fire control system. *Address:* 23555 Euclid Avenue, Cleveland, Ohio 44117 (Office). *Telephone:* (216) 383-3070.

METZ, Paul; Luxembourg engineer; b. 4 June 1918, Dudelange; s. of Norbert Metz and Marie Wurth; m. Marie-Anne Goedert 1946; two s. one d.; ed. Univ. of Louvain and Aachen Tech. Hochschule; steelworks engineer Aciéries Réunies de Burbach-Eich-Dudelange (ARBED) at Burbach Div. 1943-45, at Belval Div. 1945-54, at Dudelange Div. 1954-55; Head of Dept., Dudelange Div. 1955-61, given Power of Attorney for Dudelange Div. 1961, Man. of Div. 1962-67; Man. of Belval Div. 1967-69; Cen. Management 1969-, Asst. Gen. Man. 1972-77, Gen. Man. HQ 1977-, mem. Bd. 1978-; Kt., Order of Merit, Officer, Order of Oak Crown, Titre de Résistant (Luxembourg), Order of Tudor Vladimirescu (Romania), Commdr., Order of Merit of Italian Repub., Grand Golden Award of Order of Merit of the Austrian Repub., Hon. C.B.E. (U.K.), Commdr. Order of the Oak Crown 1977. *Publications:* various articles on refractories and steel-making. *Leisure interests:* fishing, literature. *Address:* ARBED, 19 avenue de la Liberté, Luxembourg Ville; 18 rue J. P. Brasseur, Luxembourg Ville, Grand-Duché de Luxembourg (Home). *Telephone:* 47921 (Office); 40565 (Home).

METZ, Victor Raoul de; French industrialist; b. 28 April 1902; ed. Ecole Polytechnique, Ecole des Mines; Pres., Dir.-Gen. Compagnie Française des Pétroles to 1971, Hon. Pres. 1971-; Pres. Compagnie Navale des Pétroles 1945-72, Hon. Pres. 1972-; Vice-Pres. Compagnie Française de Raffinage 1945-71, Soc. Algérienne des Pétroles Mory 1940-71, Compagnie Industrielle et Financière des Chantiers et Ateliers de Saint-Nazaire, Crédit National, Pechelbronn; Dir. Desmarais Frères; mem. Conseil d'Escompte, Banque de France; Officier Légion d'honneur. *Address:* 5 rue Michel-Ange, 75016 Paris, France.

METZENBAUM, Howard Morton, LL.B.; American politician, lawyer and company executive; b. 4 June 1917; s. of Charles I. and Anna (Klafter) Morton; m. Shirley Turoff 1946; four d.; ed. Ohio State Univ.; mem. War Labour Bd. 1942-45, Ohio Bureau for Code Revision 1949-50; mem. Ohio House of Reps. 1943-46, Ohio Senate 1947-50; alt. del. to Democratic Nat. Convention 1964, del. 1968; mem. Ohio Democratic Exec. Cttee. 1966-, Finance Cttee. 1969-; U.S. Senator from Ohio Jan. 1977-; Chair. Bd. Airport Parking Co. of America 1958-66, ITT Consumer Services Corpn. 1966-68; Chair. Exec. Cttee. ComCorp 1969-; Trustee, Mount Sinai Hosp., Cleveland 1961-, Treas. 1966-; mem. Bd. of Dirs., Council of Human Relations; mem. United Cerebral Palsy Assn., Nat Council on Hunger and Malnutrition, American, Ohio, Cuyahoga and Cleveland Bar Assns., American Assn. of Trial Lawyers. *Address:* United States Senate, Capitol Hill, Washington, D.C. 20510; 1700 Investment Plaza, Cleveland, Ohio 44114 (Office); 18500 North Park Boulevard, Shaker Heights, Ohio 44118, U.S.A. (Home).

MEULEMEESTER, Pierre M. V. de; Belgian, fmr. international official; b. 22 July 1908, Bruges; s. of Alphonse de Meulemeester and Marie Bouylant; ed. Lycée Français, London, Athénée Royal, Bruges, Univ. of Brussels and Catholic Univ., Louvain; Private Sec. to Minister, Belgian Legation, Ottawa 1937-38; Ministry of Econ. Affairs, New York World Fair 1938-39; Resistance Movement, Belgium 1940-45; Belgian Ministry of Econ. Affairs 1945-46; Deputy Chief of Protocol, Exec. Office of Sec.-Gen. of UN 1946-62, Chief of Protocol 1962-68; Dir.World Resorts Ltd.1968-; Dir. External Relations, Architects Collaborative Int., Cambridge, Mass. 1970-; several decorations. *Address:* 37 Beekman Place, New York, N.Y. 10022, U.S.A. *Telephone:* MU8-2985.

MEYER, André Benoit Mathieu; banker; b. 3 Sept. 1898, Paris; Partner, Lazard Frères & Co., New York, Lazard Frères & Cie., Paris; Dir. Lazard Bros. & Co., Ltd., London; mem. Bd. Mount Sinai Hosp.; Grand Officier, Légion d'honneur. *Address:* Lazard Frères & Co., One Rockefeller Plaza, New York, N.Y. 10020, U.S.A.

MEYER, Armin Henry; American diplomatist; b. 19 Jan. 1914, Fort Wayne, Ind.; s. of Rev. Armin Paul Meyer and Leona Buss; m. Helen Alice James 1949; one d.; ed. Lincoln Junior Coll., Capital Univ., Columbus, Ohio, Capital Univ. Theological Seminary and Ohio State Univ., Columbus, Ohio; Asst. Prof. and Dean of Men, Capital Univ. 1935-41; Radio Technician, Douglas Aircraft Co., Eritrea 1942-43; News Ed., Office of War Information, Cairo 1943-44; Public Affairs Officer, American Embassy, Baghdad 1944-48; Public Affairs Adviser, Dept. of State 1948-52; First Sec., Beirut 1952-55, Counsellor, Kabul 1955-57; Deputy Dir., Office of South Asian Affairs, Dept. of State 1957-58, Office of Near Eastern Affairs 1959-61, Deputy Asst. Sec. of State for Near Eastern and South Asian Affairs 1961; Amb. to Lebanon 1961-65, to Iran 1965-69, to Japan 1969-72; Special Asst. to Sec. of State 1972-73; Visiting Prof. American Univ. 1974-75; Professorial Lecturer in Diplomacy, Dir. of Ferdowsi Project, Woodrow Wilson Visiting Fellow, private Middle East Consultant, Georgetown Univ., Washington, D.C. 1975-. *Publication:* Assignment Tokyo 1974. *Leisure interest:* amateur radio. *Address:* 4610 Reno Road, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* (202) 244-7737.

MEYER, Charles Appleton, B.A.; American businessman and fmr. government official; b. 27 June 1918, Boston, Mass.; m. Suzanne Seyburn; two d.; ed. Harvard Univ.; served ■■ Capt. U.S. Army, Second World War; Asst. to Chair. of Bd. of Sears, Roebuck and Co. for Latin American Affairs 1947; Pres. of ■ Sears Latin American subsid., Bogotá 1953-55; Vice-Pres. in charge of Latin American Operations, Sears, for five years; Dir. Eastern Operations, Sears, Roebuck and Co. 1966-69; Asst. Sec. of State for Inter-American Affairs and U.S. Co-ordinator, Alliance for Progress 1969-72; Vice-Pres. Corporate Planning, Sears, Roebuck & Co. 1973-, Sr. Vice-Pres., Public Affairs 1978-; Adviser to U.S. Del. to Econ. Conf. of OAS 1957; fmr. mem. Nat. Advisory Comm. on Inter-American Affairs; fmr. Chair. Latin American Cttee., Business Advisory Council; fmr. Chair. Advisory Bd. Export-Import Bank; fmr. Dir. numerous companies. *Address:* Sears Tower, Chicago, Ill. 60684; 1320 North Sheridan Road, Lake Forest, Ill. 60045, U.S.A. (Home).

MEYER, Emmanuel R.; Swiss business executive; b. 6 April 1918; ed. Zurich State Commercial Coll.; practical training at Swiss Nat. Bank; joined Swiss Aluminium Ltd. (Alusuisse) 1942, exec. positions in subsidiaries in Hungary, Fed. Germany, Italy and U.S.A. 1942-56; transferred to head office 1956, Chief Exec. 1960, Deputy Chair. and Man. Dir. 1964, Chair. and Man. Dir. Dec. 1966-. *Address:* Alusuisse, Feldeggstrasse 4, P.O. Box 8034, Zürich, Switzerland.

MEYER, Jean; French actor and director; b. 11 June 1914, Paris; s. of Léon Meyer and Mathilde Magnin; m. Pierrette-Martine de Kerpezdron-Laneissière 1942; two s.; ed. Conservatoire Nat. d'Art Dramatique; worked at Comédie Française ■■ actor, director, pensionnaire from 1937, Sociétaire 1942-59, Hon. Sociétaire 1959-; Prof. Conservatoire Nat. d'Art Dramatique; Artistic Dir. Ecole Nat. Supérieure des arts et technique du théâtre; Artistic Dir. Théâtre du Palais-Royal 1960; Dir. Théâtre Michel 1964-71; Co-Dir. Théâtre des Célestins, Lyons 1968-; mem. Acad. de Neuilly; Officier, Légion d'honneur; Officier des Arts et des Lettres. *Directed* (Plays): Port-Royal, Les caves du Vatican, Le dindon, La Célestine, Don Giovanni, Donogoo, Cycle Molière, Les contes d'Hoffman, La ville dont le prince est enfant; (films): Le bourgeois gentilhomme, Le mariage de Figaro, Tartuffe, Les femmes savantes, La ville dont le prince est enfant; (television): Les affaires sont les affaires 1974. *Publications:* Molière, Gilles Shakespeare ou les aventures de Jean Perrin, Etudes des oeuvres complètes de Molière; (plays): Mic-Mac 1962, L'âge idiot 1963, Le vice dans la peau 1965, La courte paille 1976. *Address:* 3 blvd. des Sablons, 92 Neuilly-sur-Seine, France.

MEYER, John M. Jr.; American business executive; b. 16 July 1906, Oak Park, Ill.; ed. Univ. of Chicago; with Guaranty Co. 1928-33; joined J. P. Morgan & Co. 1933, Vice-Pres. 1940; served in Navy during Second World War; Sr. Vice-Pres. Morgan Bank 1955, mem. Bd. of Dirs. 1957-59 when firm merged with Guaranty Trust to form Morgan Guaranty; Exec. Vice-Pres. Morgan Guaranty 1962, Dir. and mem. Exec. Cttee. 1963, Pres. 1965, Chair. of Bd. and Chief Exec. Officer 1969-71; Chair. J. P. Morgan & Co. Inc. 1969-71; Dir. Aetna Life and Casualty Co., Eastman Kodak Co., Gillette Co., Burlington Northern Inc., Texas Gulf Sulphur Co., U.S. Steel Corpn., Saudi Int. Bank 1975-. *Address:* c/o Morgan Guaranty Trust Co. of New York, 23 Wall Street, New York, N.Y. 10015, U.S.A.

MEYER, Karl, M.D. PH.D.; American professor of biochemistry; b. 4 Sept. 1899, Kerpen, Cologne, Germany; s. of Louis Meyer and Ida Aaron; m. Marthe M. Ehrlich 1930; one s. one d.; ed. Univs. of Cologne and Berlin; Asst. Kaiser Wilhelm Inst., Berlin 1927-28; Fellow, Int. Educ. Bd. Dept. of Organic Chem., Eidgenössische Technische Hochschule, Zürich 1928-29; Fellow, Deutsche Notgemeinschaft, K.W. Inst. für Physikalische Chimie, Berlin 1930; Asst. Prof. of Experimental Biology, Univ. of Calif., Berkeley 1930-32; Asst. Prof. of Biochem., and Chemist to Inst. of Ophthalmology, Columbia Univ., N.Y. 1930-42, Asso. Prof. of Biochem. 1942-52, Prof. of Biochem. 1952-66, Emer. 1966-, Consultant and Special Lecturer, Dept. of Medicine 1967-; Prof. of Biochem., Dept. of Chem., Yeshiva Univ. 1967-; Visiting Prof. Albert Einstein Coll. of Medicine 1971-72; mem. Nat. Acad. of Sciences; Fellow American Acad. of Arts and Sciences; Hon. M.D. (Uppsala, Sweden) 1977; Lasker Award 1956; T. Duckett Jones Award 1959; Gairdner Award (Canada) 1960; Award of N.Y. Medical Coll. 1961. *Publications:* Articles in scientific journals. *Leisure interest:* history. *Address:* Columbia University, Eye Research Division, 630 W. 168th Street, New York, N.Y. 10032; 642 Wyndham Road, Teaneck, N.J. 07666, U.S.A. (Home). *Telephone:* TE6-2407 (Home).

MEYER, Pieter Johannes, D.PHIL., D.LITT.; South African journalist and teacher; b. 22 Jan. 1909, Ladybrand, O.F.S.; m. Isabella Jacobs; one s. one d.; ed. Univ. of South Africa, and in Amsterdam; teacher in ■ primary school 1931, high school 1932; Lecturer in Psychology in ■ training school, Chair. Bd. of secondary school, Chair. District Bd., Afrikaans Training Coll., Johannesburg, Chair. Rand Cttee. for establishment of an Afrikaans Univ. for Witwatersrand 1933-68; mem. Editorial Cttee., journalist Die Volksblad 1934-35; Political Corresp. Dagbreek en Sondagnuus 1934-51; first Ed. Volkshandel; Head of Liaison Dept., Rembrandt Group 1951-59; mem. Exec. Cttee. Afrikaanse Handelsinstituut; Dir. various cos.; Chair. South African Broadcasting Corpn.; mem. S.A. Acad. for Science and Art; several hon. degrees. *Publications:* The Afrikaner, Moedertaal en Tweetaligheid, Nog nie die Einde nie, Inleiding tot die Eksistensialisme, Trek Verder. *Address:* South African Broadcasting Corpn., P.O. Box 8606, Johannesburg 2000; 16 Kafue Road, Emmarentia, Johannesburg, South Africa (Home).

MEYER-CORDING, Dr. Ulrich; German economist; b. 22 May 1911, Dresden; m. Dr. Gisela Cording 1950; one s.; ed. high school, Dresden, and Univs. of Grenoble, Berlin, Kiel, Exeter and Leipzig; Lawyer, Stuttgart 1948-50; Ministerial Adviser, Ministry of Justice, Bonn 1950-57; Ministerial Man. in Ministry of Atomic Affairs 1957-58; Ministerial Dir. and Head of European Dept., Ministry of Commerce 1958-64; Prof. of Commercial and Business Law, Univ. of Cologne 1958-; Vice-Chair. European Investment Bank, Brussels 1964-72; with Rheinische Hypothekenbank, Cologne 1972-. *Publications:* Das Recht der Banküberweisung 1951, Monopol und Marktbeherrschung als Rechtsbegriffe 1954, Die Vereinsstrafe 1957. *Leisure interests:* literature, sport. *Address:* Gregor-Mendel-Strasse 27, 53 Bonn, Federal Republic of Germany.

MEYERS, Franz, DR.JUR.; German lawyer and politician; b. 31 July, 1908, Mönchengladbach; s. of Franz and Emma (née Havenstein) Meyers; m. 1937; no c.; ed. Univs. of Freiburg and Cologne; lawyer 1934-; mem. Diet of North-Rhine-Westphalia 1950-70; Mayor of Mönchengladbach 1952; Minister of Interior of North-Rhine-Westphalia 1952-56; mem. Bundesrat 1952-56, Budestag 1957-58; Minister-Pres., North-Rhine-Westphalia 1958-66; Pres. Bundesrat 1961-62; now Chair. Supervisory Bd., Klöckner-Werke AG; Pres. German Leisure Assen.; Grosskreuz des Verdienstordens der Bundesrepublik Deutschland, Bayerischer Verdienstorden and numerous foreign decorations. *Address:* 405 Mönchengladbach, Bergstrasse 137, Federal Republic of Germany.

MEYERSON, Martin, SC.D.; American university president; b. 14 Nov. 1922, New York; m. Margy Ellin Lazarus; two s. one d.; ed. Columbia Univ., Harvard Univ.; Asst. Prof. of Social Sciences, Univ. of Chicago 1948; successively Research Dir., Exec. Dir., Vice-Pres., Vice-Chair., American Council to Improve Our Neighbourhoods; Assoc. Prof., Prof., Univ. of Pa. Inst. for Urban Studies and Dept. of City and Regional Planning 1952-57; Adviser on urban problems for UN in Indonesia, Japan and Yugoslavia 1958-66; Frank Backus Williams Prof. of City Planning and Urban Research, Harvard Univ. 1957-63; Dir. Joint Center for Urban Studies of M.I.T. and Harvard Univ. 1957-63; Dean Coll. of Environmental Design, Univ. of Calif. (Berkeley), Acting Chancellor 1963-66; Pres. State Univ. of New York at Buffalo, Prof. of Policy Sciences 1966-70; Pres. Univ. of Pa. Sept. 1970-, Univ. Prof. 1977-; mem. Int. Council for Educ. Devt. 1971-; American Dir., Int. Assen. Univs. 1975-; Gov. Centre for Environmental Studies, London; fmr. Gov. American Inst. of Planners; Fellow A.A.A.S., American Acad. of Arts and Sciences; Hon. LL.D. (Queens Univ., Canada, D'Youville Coll., Alfred Univ., Rutgers Univ., Univ. of Pa., Stonehill Coll.) Hon. D.Sc. (Chattanooga); Hon. Prof. Nat. Univ. of Paraguay. *Publications:* Co-Author Politics, Planning and the Public Interest 1955, Housing, People and Cities 1962, Face of the Metropolis 1963,

Boston 1966, Conscience of the City (Editor) 1970, Gladly Learn and Gladly Teach 1977. *Address:* 101 College Hall, University of Pennsylvania, Philadelphia, Pa. 19174, U.S.A.

MEYNELL, Laurence W.; British writer; b. 9 Aug. 1899, Wolverhampton; s. of Herbert and Agnes Meynell; m. 1st Shirley Darbyshire 1932 (deceased), one d.; m. 2nd Joan Henley 1966; ed. St. Edmund's Coll., Ware; fmr. schoolmaster, land agent; served with R.A.F.; Literary Ed. Time and Tide 1958-60; Past Pres. Johnson Soc. *Publications:* Blue Feather 1928, On the Night of the 18th 1936, The Door in the Wall 1936, The Dandy 1938, The Hut 1938, Dark Square 1940, Strange Landing 1946, The Evil Hour 1947, The Bright Face of Danger 1948, The Echo in the Cave 1949, Party of Eight 1950, Famous Cricket Grounds 1951, The Man No One Knew 1951, The Frightened Man 1952, Too Clever by Half 1953, Builder and Dreamer (Life of I. K. Brunel) 1953, Man of Speed (Life of C. S. Rolls) 1953, Give me the Knife 1954, Under the Hollies 1954, Policeman in the Family 1954, Bridge under the water 1955, Where is She Now? 1955, Great Men of Staffordshire 1955, Life of James Brindley 1956, Life of T. Telford, The Breaking Point 1957, One Step from Murder 1958, The Abandoned Doll 1960, The House in Marsh Road 1960, The Pit in the Garden 1961, Virgin Luck 1962, Sleep of the Just 1963, More Deadly than the Male 1964, Scoop 1965, The Suspect Scientist 1965, Die by the Book 1966, The Mauve Front Door 1967, Week End in the Scampi Belt 1967, Death of a Philanderer 1968. The Curious Crime of Miss Julia Blossom 1970, The Fatal Flaw 1971, A Little Matter of Arson 1971, Death by Arrangement 1972, The End of the Long Hot Summer 1972, A View from the Terrace, The Fortunate Miss East 1973, Hooky and the Crock of Gold 1974, The Fairly Innocent Little Man 1974, The Lost Half Hour 1976, Papersnake 1978; and under the pseudonym of Robert Eton: The Pattern 1934, The Bus Leaves for the Village 1936, Palace Pier 1938, The Legacy 1939, The Faithful Years, The Corner of Paradise Place, St. Lynn's Advertiser 1946, The Dragon at the Gate 1948; ▬ Stephen Tring (for children): The Old Gang 1951, Barry Gets His Wish 1952, Barry's Exciting Year 1952, Penny Dreadful 1952, Penny Penitent 1953, Penny Triumphant 1954, Penny Dramatic 1955, Penny in Italy 1957, Penny and the Pageant, Nurse Ross Takes Over 1958, Nurse Ross Saves the Day 1960. *Address:* 9 Clifton Terrace, Brighton, Sussex BN1 3HA, England. *Telephone:* Brighton 28523.

MEYNEN, Johannes, IUR.D.; Netherlands business exec.; b. 13 April 1901, Baarderadeel Frisia; m. Nelia Laura Wetserhuis; two s. three d.; ed. Free Univ. of Amsterdam; Asst. Sec., Arnhem Chamber of Commerce 1925-26; Sales Man. European Office Hercules Powder Co. (U.S.A.), The Hague 1927-40; N.V. Phillips, Eindhoven 1940-45; Maj. Netherlands Army 1944-45; Sec.-Gen. Netherlands War Office 1945; Minister of War 1945-46; Exec. Vice-Pres. Algemeene Kunstzijde Unie N.V. (A.K.U.) 1947-62, Pres. 1962-67, Deputy Chair. 1967-71; Vice-Chair. Nat. Bank of the Netherlands; Dir. Amsterdam-Rotterdam Bank, Overseas Gas and Electricity Works, and numerous other cos.; Peter Stuyvesant Award, Knight, Netherlands Lion, Commdr. Order of Orange Nassau, Order of British Empire, Medal of Freedom (U.S.A.). *Leisure interests:* walking, swimming, travelling, reading, gardening. *Address:* Pinkenbergseweg 33, Velp (Gld), Netherlands.

MEZHELAITIS, Eduardas (Beniaminovich); Soviet-Lithuanian poet & writer b. 1919; Writer 1935-; mem. Lithuanian CP 1943-; Exec. Editor of Lithuanian Komsomol newspaper, Sec. Central Cttee. of Lithuanian Komsomol 1940-46; literary & editorial work 1946-54, Sec. Lithuanian Writers' Union 1954-59, then Chair. 1959-; Deputy 1955-, and Deputy Chair., Pres. of Supreme Soviet, Latvian SSR 1975-; mem. Central Cttee. Latvian CP 1960-; Lenin Prizewinner 1962; Order of Lenin and several others; Hero of Socialist Labour. *Publications include:* Lyric Poetry 1943, Wind from Homeland 1946, Poets of Soviet Lithuania 1953 (anthology) 1953, Strange Stories 1957, Sun in Amber 1961, Man 1961, Southern Panorama 1963, Bread & the Word 1965, Moths 1966, Carousel 1967, Here is Lithuania 1968, Horizons 1970, Amber Bird 1972 and others.

MICHAŁOWSKI, Kazimierz, DR. PHIL.; Polish archaeologist; b. 14 Dec. 1901, Tarnopol; s. of Marian and Kazimiera Michałowski; m. Krystyna Baniewicz 1945; one s. one d.; ed. Lwów Univ.; Deputy Dir. Warsaw Nat. Museum, in charge of Franco-Polish excavations Egypt 1937-39, Polish excavations, Crimea 1956-58, Egypt (Tell Atrib 1957, Alexandria 1960, Deir el Bahari 1961), Sudan (Faras 1961-64, Dongola 1965, Kadero 1973), Iraq (Nimrud 1974), Syria (Palmyra 1959), Cyprus (Nea Paphos 1965); Prof. of Mediterranean Archaeology, Warsaw Univ. to 1972, Prof. Emer. 1972-; Head Inst. of Mediterranean Archaeology, Polish Acad. of Sciences; Chair Int. Working Group of Archaeologists and Landscape Architects, Abu Simbel; Patron Soc. for Nubian Studies; Hon. Vice-Chair. Int. Assn. of Egyptologists 1976-; Dir. of Polish Centre of Archaeology, Cairo; mem. Polish Acad. of Sciences 1952- (mem. Presidium 1952), Accad. Naz. dei Lincei, British Acad., Heidelberg Acad., German Acad. (Berlin), Saxon Acad. and others; Dr. h.c. (Strasbourg) 1962, (Cambridge) 1971, (Uppsala) 1977; Prix, Acad. des Inscriptions et Belles-Lettres 1933, 1969, State Prize 1955, 1966, Herder Prize 1971, Ministry of Culture and Art Prize, 1st Class 1973; Order of Builders of People's Poland 1977, Order of Banner of Labour 1964, Commdr. and Commdr. with Star, Cross of Order of Polonia Restituta 1947, 1972, Silver Cross of Virtuti Militari 1948, Gold Cross of Merit 1951, Knight's and Officer's Crosses, Légion d'honneur 1938, 1947, Commdr. Cross Corona d'Italia 1947, Commdr. Cross of the Phoenix (Greece) 1978, and numerous other Polish and foreign awards and decorations. *Publications:* Les portraits hellénistiques et romains 1932, Fouilles franco-polonaises à Tell Edfou 1937-50, Mirmeki 1956, Palmyre—fouilles polonaises, Vols. I-V 1960-66, Faras-fouilles polonaises, Vols. I-II 1962-65, Die Kathedrale aus dem Wüstensand 1967, L'art de l'ancienne Egypte 1968, (English version 1969), Faras—Wall Paintings in the Collection of the National Museum in Warsaw 1974, Storia della Scultura nel Mondo-Egitto 1978; and about 200 articles on mediterranean archaeology. *Leisure interest:* detective stories. *Telephone:* Ul. Sewerynów 6 m. 19, 00-331 Warsaw, Poland. *Telephone:* 26-39-79.

MICHALSKI, Jan. SC.D.; Polish chemist; b. 7 June 1920, Lódz; s. of Edward Michalski and Lucyna Jungowska; m. Maria Wejchert 1944; two s. two d.; ed. Warsaw Polytechnic, Jagiellonian Univ. Cracow, Cambridge Univ.; scientific worker, Łódź Polytechnic 1945-; Dir. Centre of Molecular and Macromolecular Research, Łódź, Assoc. Prof. 1958-64, Prof. 1964-; Corresp. mem. Polish Acad. of Sciences 1962-69, mem. 1969-, Sec. of Third Dept. 1972-77, mem. of Presidium 1977-, Chair. Łódź branch 1978, Foreign mem. Churchill Coll., Cambridge Univ. 1964-; mem. Editorial Bd. of Tetrahedron; mem. Polish Cttee. of Pugwash Confs., Polish Chemical Soc., American Chemical Soc., Chemical Soc. of London, Int. Union of Pure and Applied Chem. and others; State Prize (1st Class) 1978; Knight's Cross, Order of Polonia Restituta 1958, Commdr.'s Cross 1974, Medal of City of Paris 1969, Medal of 30th Anniversary of People's Poland 1974. *Publications:* over 200 papers on hetero-organic compounds, and chemistry and stereochemistry of organo-phosphorous compounds. *Leisure interests:* hiking and carpentry. *Address:* Ul. Brzeźna 6 m. 3, 90-303 Łódź, Poland. *Telephone:* 601-72.

MICHEL, Joseph; Belgian lawyer; b. 25 Oct. 1925, Saint-Mard; m.; three s. two d.; ed. Catholic Univ. of Louvain; Pres. Young Christian Democrats of Virton 1949; Councillor of Virton 1958; Mayor of Virton 1970; mem. House of Reps. 1961-; Minister of Interior 1974-77, of Educ. (French) 1977-79; political columnist Avenir du Luxembourg. *Publication:* Economic History of the Province of Luxembourg during the Nineteenth Century 1954. *Address:* 76 avenue Bouvier, 6760 Virton, Belgium. *Telephone:* (063) 577404 (Virton).

MICHELANGELI (Arturo Benedetti Michelangeli); Italian concert pianist; b. 5 Jan. 1920; ed. privately and Conservatorio G. Verdi in Milan; taught by Paolo Chiuieri in Brescia, then by Giovanni Anfassi of Milan; studied violin, organ and composition at the Conservatoire in Milan; winner of Grand Prix of Geneva 1939; given concerts throughout world; Academician of Accad. Sta. Cecilia, Rome, and Accad. Cherubini, Florence; Gold Medal of Italian Republic. *Address:* c/o Kazuko Hillyer International Inc., 250 West 57th Street, New York, N.Y. 10019, U.S.A.

MICHELIN, François; French industrialist; b. 3 July 1926; Man. Dir. Compagnie Générale des Etablissements Michelin, "Michelin & Cie." 1959-66, Joint Man. Dir. 1966-; Man. Dir. Cie. Financière Michelin; Admin. Soc. anonyme Automobiles Citroën 1968-. *Address:* Usines Michelin, place des Carmes-Déchaux, 63000 Clermont-Ferrand; 12 cours Sablon, 63000 Clermont-Ferrand, France.

MICHELMORE, Laurence, PH.D.; American international official; b. 1909, Philadelphia, Pa.; s. of John and Lily Elwert Michelmore; m. Janet Brownlee Hunter 1936; two d.; ed. Univ. of California and Harvard Univ.; Admin. Officer, Los Angeles Country Relief Admin. 1934-35, Idaho Works Progress Admin. 1935-36; Asst. Prof., Wayne Univ. 1936-42; Research Dept. Detroit Bureau of Governmental Research 1936-42; Staff, U.S. Budget Bureau 1942-46; UN Secretariat 1946-71, Deputy Controller 1952-55, Sr. Dir. Technical Assistance Bd. 1955-59, Dep. Dir. of Personnel 1959-63, Personal Rep. of Sec.-Gen. ▬ Malaysia 1963; Commr. Gen. of UN Relief and Works Agency (UNRWA) 1964-71. *Address:* 5610 Marengo Road, Washington, D.C. 20016, U.S.A. *Telephone:* 320-4441.

MICHELSEN, Hans Günter; German playwright; b. 1920, Hamburg; mil. service and P.O.W. 1939-49; began to write 1949; now freelance writer in Augsburg; Förderpreis des Niedersächsischen Kunstpreises, Hanover 1963, Förderpreis des Gerhart-Hauptmann-Preises, Berlin 1963, Gerhart-Hauptmann-Preis, Berlin 1965, Literaturpreis der Freien Hansestadt Bremen 1967. *Publications: plays:* Stienz 1963, Feierabend 1 and 2 1963, Lappschiess 1964, Drei Akte 1965, Helm 1965, Frau L 66, Planspiel 1969, Sein Leben 1975, Alltag 1978, Terror 1979; *radio plays:* Episode 1958, Kein schöner Land 1966, Ein Ende 1969, Himmelfahrt 1972. *Address:* c/o Verlag der Autoren GmbH & Co. KG, Staufenstrasse 46, 6000 Frankfurt 1, Federal Republic of Germany. *Telephone:* 726744.

MICHENER, Charles Duncan, B.S., PH.D.; American biologist (entomology); b. 22 Sept. 1918, Pasadena, Calif.; s. of Harold and Josephine Rigden Michener; m. Mary Hastings 1941; three s. one d.; ed. Univ. of California, Berkeley; Technical asst. in Entomology, Univ. of Calif. 1939-42; Asst. Curator, Lepidoptera and Hymenoptera, American Museum of Natural History, New York 1942-46, Assoc. Curator 1946-48, Research Assoc. 1949-; Curator, Snow Entomological Museum, Univ. of Kansas 1949-, Dir. 1974-; Assoc. Prof. Entomology, Univ. of Kansas 1948-50, Prof. 1950-, Chair. Dept. of Entomology 1949-61, 1972-75, Watkins Dist. Prof. of Entomology 1959-, of Systematics and Ecology 1969-; State Entomologist, S. Div. of Kansas 1949-61; Pres. Soc. for the Study of Evolution 1967, Soc. of Systematic Zoology 1969, American Soc. of Naturalists 1978; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences; Corresp. mem. Acad. Brasileira de Ciencias; Guggenheim Fellow to Brazil 1955-56, Africa 1966-67; Fellow Royal Entomological Soc. of London; Fulbright Scholar, Australia 1957-58; Morrison Prize, N.Y. Acad. of Sciences 1943. *Publications:* Comparative external morphology, phylogeny, and a classification of the bees (Hymenoptera) 1944, American social insects (with M. H. Michener) 1951, The nest architecture of the sweat bees (with S. F. Sakagami) 1962, A classification of the bees of the Australian and S. Pacific regions 1965, The social behaviour of the bees 1975. *Leisure interests:* travel, field work. *Address:* Departments of Entomology and of Systematics and Ecology, University of Kansas, Lawrence, Kansas 66045; 1706 West 2nd Street, Lawrence, Kansas 66044, U.S.A. (Home). *Telephone:* 913-864-4610 (Office); 913-843-4598 (Home).

MICHENER, Rt. Hon. (Daniel) Roland, P.C., C.C., C.M.M., C.D., Q.C., B.C.L., M.A.; Canadian lawyer, business executive and fmr. Governor-General; b. 19 April 1900, Lacombe, Alberta; s. of late Edward and Mary Edith (Roland) Michener; m. Norah Evangeline Willis; three d.; ed. Univ. of Alberta and Oxford Univ.; Barrister, Middle Temple (England) 1923, Ontario 1924; practising lawyer, Lang, Michener and Cranston, Toronto 1924-57; mem. Ontario Legislature for St. David, Toronto 1945-48, Provincial Sec. and Registrar for Toronto 1946-48; Progressive Conservative mem. of House of Commons 1953-62; Speaker of House of Commons 1957-58, 1958-62; High Commr. in India 1964-67; Gov.-Gen. and Commdr.-in-Chief of Canada 1967-74; Chancellor and Prin. Companion of the Order of Canada 1967; Chancellor and Commdr. Order of Military Merit 1972; Prior for Canada, and Knight of Justice of Most Venerable Order of the Hospital of St. John of Jerusalem 1967; Gen. Sec. for Canada for Rhodes Scholarships 1936-64; mem. of Council, Commonwealth Parliamentary Assn. 1959-61; Chair. Manitoba Royal Comm. on Local Govt. and Finance 1962-64; Chancellor Queen's Univ., Kingston 1974-; Pres. Canadian Inst. of Int. Affairs; Chair. Bd. Metropolitan Trust Co. 1974-76; Chair. Bd. Teck Corpn. Ltd.; public gov. Toronto Stock Exchange 1974-76; Dir E.L. Financial Corpn. 1974-76; Dir. Pamour Porcupine Mines Ltd.; assoc. counsel Lang, Michener, Cranston, Farquharson and Wright; Chair. H.R.H. The Duke of Edinburgh's Fifth Commonwealth Study Conf., Canada 1980; fmr. Gov. Toronto Western Hospital, Univ. of Toronto; fmr. Pres. Lawyers Club, Empire Club, Bd. of Trade Club, Toronto; fmrly. Hon. Counsel and Chair. of Exec. Cttee., Canadian Inst. of Int. Affairs, Pres. 1974-; fmr. Hon. Counsel Red Cross Ontario Div.; fmr. Chair. of Exec. Canadian Assn. for Adult Educ.; Hon. Fellow Hertford Coll. Oxford 1961, Acad. of Medicine 1967, Royal Coll. of Physicians and Surgeons of Canada 1968, Royal Architectural Inst. of Canada 1968, Trinity Coll. Toronto 1968, Frontier Coll. Toronto 1972, Royal Soc. of Canada 1975, Royal Canadian Mil. Inst., Heraldry Soc. of Canada, Hon. mem. Canadian Medical Assn. 1968; Hon. Bencher Law Soc. of Canada 1968; numerous hon. degrees. *Address:* First Canadian Place, Toronto, Ont. M5X 1A2 (Office); 24 Thornwood Road, Toronto, Ont., M4W 2S1, Canada (Home).

MICHENER, James Albert, A.B., A.M.; American writer; b. 3 Feb. 1907; ed. Swarthmore Coll., Colorado State Coll. of Education, Ohio State Univ., Univs. of Pennsylvania, Virginia, Harvard and St. Andrews (Scotland); teacher 1929-36; Prof. Colo. State Coll. of Educ. 1936-41; Assoc. Ed., Macmillan Co. 1941-49; U.S. Naval Reserve 1944-45; mem. Advisory Cttee. on the Arts, U.S. State Dept. 1957; Chair. Pres. Kennedy's Food for Peace Program 1961; mem. U.S. Advisory Comm. on Information 1971; Pulitzer Prize for Tales of the South Pacific 1947; Einstein Award 1967. *Publications:* Unit in the Social Studies 1940, Tales of the South Pacific 1947, The Fires of Spring 1949, Return to Paradise 1951, The Voice of Asia 1951, The Bridges at Toko-ri 1953, Sayonara 1954, Floating World 1955, The Bridge at Andau 1957, Rascals in Paradise (with A. Grove Day) 1957, Selected Writings 1957, The Hokusai Sketchbook 1958, Japanese Prints 1959, Hawaii 1959, Report of the County Chairman 1961, Caravans 1963, The Source 1965, Iberia 1968, Presidential Lottery 1969, The Quality of Life 1970, Kent State 1971, The Drifters 1971, The Fires of Spring 1972, A Michener Miscellany 1973, Centennial 1974, Sports in America 1976, Chesapeake 1978. *Address:* Box 125, Pipersville, Pa. 18947, U.S.A.

MICOMBERO, Lieut.-Gen. Michel; Burundian army officer and politician; b. 1940; ed. Catholic Colls. of St. Esprit, Bujumbura, and Military Acad., Brussels; recalled from Brussels Mil. Acad. when Burundi became independent 1962; Chief of Staff 1962; Minister of Nat. Defence and Chief of Secs. of State 1965-66; Col. 1966; Prime Minister 1966-72, 1973-76; led coup to overthrow monarchy and establish Repub. Nov. 1966; Pres. of Burundi 1966-76 (deposed); Minister of Foreign Affairs 1967-68, of the Interior June-Aug. 1973; in detention Nov. 1976-. *Address:* c/o Présidence de la République, Bujumbura, Burundi.

MIČUNOVIĆ, Veljko; Yugoslav diplomatist; b. 16 Jan. 1916, Cetgne, Montenegro; s. of Jovan and Marica Mičunović; m. Budislava Dapčević 1950; one s. one d.; ed. Belgrade Univ.; one of the organizers of nat. uprising in Montenegro; political leader in Montenegro and Belgrade; mem. Yugoslav Govt. 1949-51; Asst. Minister of the Interior; Asst. Minister of Foreign Affairs 1952; Amb. to U.S.S.R. 1956-58, 1969-71; Under-Sec. of State for Foreign Affairs 1958-61, Deputy Sec. of State 1961-62; Amb. to U.S.A. 1962-67; mem. Cen. Cttee. of Yugoslav League of Communists; mem. Presidium of Yugoslavia 1971-74, Council Fed. of Yugoslavia 1974-; Order of Nat. Hero, Meritorious Services to the People, 1st Class, etc. *Leisure interest:* fishing. *Address:* Council of the Federation of Yugoslavia, Belgrade, Yugoslavia. *Telephone:* 688-003.

MIDDELMANN, Werner G.; German international official (retd.); b. 10 Oct. 1909, Offenbach, Main; s. of Wilhelm Middelmann and Annie Hoffmann-Steinhaeuser; m. Vera L. Holtermann 1935; three s. one d.; electrical appliance and chemical industry, Germany 1926-45, Exec. Dir. 1935-45; in charge of Refugees and Expellees, Baden-Württemberg 1945-46, U.S. Zone of Occupation 1947, U.S. and British Zones of Occupation 1947-49; Perm. Sec. Fed. Ministry for Expellees, Refugees, and War Victims, Bonn 1949-61; Dir., E. Mediterranean Region, UNICEF 1961-65; Comptroller, UNICEF, New York 1966-74; Honour Award 1st class, German Red Cross 1951; Grand Cross, Fed. German Order of Merit 1970. *Leisure interests:* swimming, history, geography, economic literature, travel. *Address:* Neue Schanze 2, Bregenz, 6900 Austria. *Telephone:* 238265.

MIDDENDORF, J. William, II, B.S., M.B.A.; American diplomatist and government official; b. 22 Sept. 1924, Baltimore, Md.; s. of Henry Stump and late Sarah Boone Middendorf; m. Isabelle J. Paine 1953; two s. three d.; ed. Holy Cross Coll., Harvard Univ. and New York Graduate School of Business Administration; U.S. Navy service during Second World War; in Credit Dept. of Bank of Manhattan Co. (now Chase Manhattan Bank) 1947-52; Analyst, brokerage firm of Wood Struthers and Co. Inc., New York 1952-58, Partner 1958-62; Sr. Partner investment firm of Middendorf, Colgate and Co., New York 1962-69; U.S. Amb. to the Netherlands 1969-73; Under-Sec. of the Navy 1973-74, Sec. 1974-76; now Pres. and Chief Exec. Officer of Financial Gen. Bankshares, Washington, D.C. *Compositions:* has composed seven symphonies, an opera and numerous marches and concerti. *Publications:* Investment Policies of Fire and Casualty Insurance Companies. *Address:* c/o Financial General Bankshares, 1701 Pennsylvania Avenue, N.W. Washington, D.C. 20006; 1453 Kirby Road, McLean, Va. 22101, U.S.A. (Home). *Telephone:* 202-457-7906 (Office); 703-790-1244 (Home).

MIDDLETON, Drew, B.S.; American journalist; b. 14 Oct. 1914; ed. Syracuse Univ.; sports ed. Poughkeepsie (N.Y.) Eagle News 1936; reporter Poughkeepsie Evening Star 1936-37; sports writer N.Y. office Assoc. Press 1939; war corresp. attached to B.E.F. France and Belgium 1939-40, to R.A.F. 1940-41, to U.S. Army and Navy, Iceland 1941-42, Allied Forces, London 1942; staff of New York Times, London 1942; corresp. North Africa and Mediterranean area and Allied H.Q. Algiers 1942-43; with U.S. Eighth Air Forces

and R.A.F. Bomber Commd. 1943-44; U.S. First Army and SHAEF 1944-45; Frankfurt, Berlin and Int. Mil. Trials, Nuremberg 1945-46; Chief Corresp. New York Times in U.S.S.R. 1946-47, Germany 1947-53, London 1953-62, Paris 1962-65, UN (New York) 1965-69, European Affairs Corresp. 1969-70; Hon. D.Litt. (Syracuse Univ.) 1963; U.S. Medal of Freedom 1948; O.B.E. (Mil. Div.) 1947. *Publications:* Our Share of Night 1946, The Struggle for Germany 1949, The Defence of Western Europe 1952, The British 1957, The Sky Suspended 1960, The Supreme Choice: Britain and the European Community 1963, The Crisis in the West 1965, Retreat from Victory 1973, Where has last July Gone? 1974. *Address:* 39 Gramercy Park, New York, N.Y. 10010, U.S.A.

MIDDLETON, Sir George Humphrey, K.C.M.G.; British diplomatist; b. 21 Jan. 1910; s. of George Close Middleton and Susan Sophie (née Harley); m. Françoise Sarthou; one s.; ed. St. Lawrence Coll., Ramsgate, and Magdalen Coll., Oxford; entered Consular Service 1933; Vice-Consul, Buenos Aires; Third Sec., Asunción 1934, in charge of Legation 1935, New York 1936; Consul at Lemberg (Lwów) 1939; in charge of Vice-Consulate, Cluj 1939-40, Genoa 1940, Madeira 1940, Foreign Office 1943; Second Sec., Washington 1944; First Sec. 1945; Foreign Office 1947; Counsellor 1949; Counsellor, British Embassy, Teheran 1951; Chargé d'Affaires 1951 and 1952; Deputy High Commr. for U.K., Delhi 1953-56; Amb. to the Lebanon 1956-58; Political Resident in Persian Gulf 1958-61; Amb. to Argentina 1961-64, to United Arab Republic 1964-65; mem. ad hoc Cttee. for UN Finances 1966; Consultant Ind. Reorganisation 1966-68; fmr. Chief Exec. British Industry Road Campaign; Chair. Michael Rice (Overseas) Ltd.; Dir. Liberty Life Assurance Co. Ltd., Neuwirth Investment Fund Ltd., Britarge Ltd., Decor France Ltd., H. P. Brauner Ltd., Johnson and Blox Holdings Ltd., Mears Bros. Holdings, Chair. 1977-; Fellow, Royal Soc. of Arts; Chair. Bahrain Soc., Anglo-Peruvian Soc. *Address:* 53 Albert Hall Mansions, London, S.W.7, England. *Telephone:* 01-589 8406.

MIEGHEM, Jacques Van; Belgian meteorologist; b. 26 Oct. 1905, Malines; s. of Louis Van Mieghem and Jeanne Mission; m. Elvyre Allaeys 1930; ed. Univ. of Brussels; head of Royal Meteorological Inst. of Belgium 1962-70; Prof. Free Univ. of Brussels 1947-75, Emer. 1975-; mem. Royal Flemish Acad. of Belgium 1947-; Pres. of Aerological Comm. 1951-57; mem. Special Cttee. Int. Geophysical Year 1953-59, Int. Geophysical Cttee. 1959-; Vice-Pres. Int. Assen. of Meteorology 1954-57; Pres. Int. Assen. of Meteorology and Atmospheric Physics 1957-60, Belgian Polar Inst. 1958; Sec.-Gen. Int. Council of Scientific Unions 1961-63; mem. WMO Exec. Cttee. 1963-71; Pres. Ad Hoc Advisory Group on Meteorology (NATO Scientific Div.) 1964, of Panel of Experts on Meteorological Educ. and Training (WMO) 1965-70; Chevalier Ordre de Léopold 1943, Commdr. 1957, Grand Officier 1973; Officier de l'Ordre de la Couronne 1947, Grand Officier 1967. *Publications:* Etude sur la théorie des ondes 1934, Prévision du temps par l'analyse des cartes météorologiques 1936, Propagation des ondes électromagnétiques en milieu homogène 1944, Thermodynamique de l'atmosphère (with L. Dufour) 1949, 1975, Atmospheric Energetics 1973. *Leisure interest:* history of civilization. *Address:* c/o Faculté des Sciences, Université Libre de Bruxelles, 50 avenue F. D. Roosevelt 1050 Brussels; 34 Avenue des Armures, Forest 1190, Brussels, Belgium. *Telephone:* (02) 3455085.

MIELKE, Erich; German shipping clerk and politician; b. 28 Dec. 1907, Berlin; m.; two c.; joined Communist Youth League 1921, CP 1925; fought in Spanish civil war 1936-39; emigrated to U.S.S.R. 1939-45; State Sec., G.D.R. Ministry of State Security 1950-53, 1955-57; Deputy State Sec. for State Security, Ministry of the Interior 1953-55; Minister of State Security 1957-; mem. Volkskammer (People's Chamber) 1958-; mem. Cen. Cttee. Socialist Unity Party (SED) 1950-, cand. mem. Politburo 1971-76, mem. 1976-; Col.-Gen. 1959; Vaterländischer Verdienstorden in Gold (twice), Karl-Marx-Orden and many other decorations. *Address:* 102 Berlin, Am Marx-Engels-Platz 2, German Democratic Republic.

MIĘSOWICZ, Marian, PH.D.; Polish physicist; b. 21 Nov. 1907, Lvov, U.S.S.R.; s. of Jan and Józefa Mięsowicz; m. Stanisława Potocka 1932; two d.; ed. Jagiellonian Univ. Cracow; Doctor 1932-39, Docent 1939-46, Assoc. Prof. 1946-48, Prof. 1948-; Corresp. mem. Polish Acad. of Sciences 1959-64, mem. 1964-, Vice-Pres. 1969-77, mem. Presidium 1977-, Chair. Cracow Branch; Deputy to Seym (Parl.) 1972-; Dir. Inst. of Nuclear Eng. of Mining Acad., Cracow; Head, Dept. of High Energy Physics, Inst. of Nuclear Physics, Cracow; Chair. Scientific Council of Inst. of Nuclear Research, Swierk, Inst. of Technics and Nuclear Physics of Acad. of Mining and Metallurgy, Cracow; mem. European Physical Soc., Società Italiana di Fisica, American Physical Soc.; Dr. h.c. (Jagiellonian Univ.) 1975; Gold Cross of Merit 1946; State Prize, 3rd Class 1952, 1st Class 1964; Knight's Cross, Order of Polonia Restituta 1954, Commdr.'s Cross 1958, with Star 1974; Order of Banner of Labour, 1st Class 1962; Order of Builders of People's Poland 1974; Medal of 30th Anniversary of People's Poland 1974. *Address:* Ul. Mikołajska 6 m. 7, 31-027 Cracow, Poland. *Telephone:* 262-27 (Home).

MIETTUNEN, Martti; Finnish politician; b. 17 April 1907, Simo; m. Henna Salovaara; ed. Agricultural Inst.; M.P. 1945-58; Sec. Agrarian Party 1946-50; Minister of Agric. 1951-53, 1956-57, 1958, 1968-70, of Communications 1950-51, 1954-56, of Finance 1957; Prime Minister 1961-62, 1975-77; Dir. Central Union of Agric. Producers 1947-58; Chair. Admin. Council, Kemijoki Oy 1956-; Pres. Provincial Assen. Municipalities of Province of Lapland 1959-72; Chair. Bd. of Admin. Cen. Bank of Co-operative Banks of Finland Ltd. 1971-75; Grand Cross Order of White Rose of Finland, Cross of Merit, in Gold, of Finnish Sport, Grand Cross, Order of North Star; Hon. G.B.E., Grosskreuz des Verdienstordens der Bundesrepublik Deutschland; Centre Party. *Address:* c/o Keskustapuolue, Pursimiehenkatu 15, Helsinki, Finland.

MIFUNE, Toshiro; Japanese actor and film producer, b. 1 April 1920, Chintago, China; m. Takeshi Shiro 1950; two s.; first screen appearance in Shin Baka Jidai (These Foolish Times) 1947; played leading role in Rashomon 1950; other films in which he has played important roles include Yoidore Tenshi (Drunken Angel) 1948, Shichinin no Samurai (The Seven Samurai) 1954, Miyamoto Musashi (The Legend of Musashi) 1954, The Lower Depths 1957, Throne of Blood 1957, Kumonosu-Jo, Muhomatsu No Issho (The Rickshawman) 1958, Kakushitoride No San Akunin (The Hidden Fortress) 1958, Nippon Tanjo (The Three Treasures) 1959, Taiheiyo No Arashi (The Storm of the Pacific), Yojimbo 1961, Tsubaki Sanjuro, Rebellion, Akahige 1965, Grand Prix 1966, Admiral Yamanoto 1968, Hell in the Pacific 1968, Furinkazan 1969, Red Sun 1971, Paper Tiger 1974, The Battle of Midway 1975. *Leisure interests:* hunting, yachting, flying, riding. *Address:* Mifune Productions Co. Ltd., 9-30-7, Seijyo, Setagayaku, Tokyo, Japan. *Telephone:* 484 1111.

MIGDAL, Arkadiy Baynusovich; Soviet theoretical physicist; b. 11 March 1911, Lida, Byelorussia; s. of Beinus K. Migdal and Rashel' A. Pupko; m. Tat'yana Soboleva 1944; one s. one d.; ed. Leningrad Univ.; Prof. Moscow Eng. and Physics Inst. 1944-; worked in Inst. of Atomic Energy, U.S.S.R. Acad. of Sciences 1945-71, Inst. of Theoretical Physics, U.S.S.R. Acad. of Sciences 1971-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-66, mem. 1966-; Order of Lenin; Order of Red Banner of Labour and other decorations. *Publications:* Theory of Finite Fermi Systems 1965, Approximation Methods in Quantum Mechanics 1966, Nuclear Methods: The Quasiparticle Theory 1968, The Qualitative Methods of Quantum Theory 1975. *Leisure interests:* sculpture, skin-diving. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

MIGOLET, Jean-Stanislas; Gabonese politician; b. 1 Aug. 1920, Koula-Moutou; ed. R.C. Mission school, Mbigou; worked as clerk to the Admin. 1941-47; served in Gen. Council 1947-52; Territorial Councillor for Ogooué-Lolo Region 1952-57, Vice-Pres., Territorial Assembly 1957; mem. Constitutional Assembly 1958-59, Legislative Assembly 1959-61, of Nat. Assembly 1961-, Vice-Pres. 1961-64; Minister of the Interior 1957-58, 1964, 1968-69, 1973; Minister of Labour and Social Affairs 1958-60; Minister of the Interior and Nat. Security 1960-61; Pres., Nat. Budgetary and Finance Comm. 1961-64; Minister of State for Public Works 1964-68; Minister of State for Labour and Social Insurance responsible for Relations with the Nat. Assembly 1969-73; Minister of State for the Interior 1973-75, Minister for Relations with Nat. Assembly 1973-, for Labour and Social Welfare 1976-78, of the Interior 1978-; Deputy Vice-Pres. 1969-75; Deputy Prime Minister 1975-. *Address:* Office of the Deputy Prime Minister, Libreville, Gabon.

MIGONE, Bartolomeo; Italian executive and retd. diplomatist; b. 2 June 1901, Genoa; s. of the late Giovanni Maria Migone and the late Maria Anna de'Amicis; m. Jacquette Hamilton 1937; one s. one step d.; ed. Inst. of Social Sciences, Florence; entered Foreign Office 1923; Sec. Italian Del. to League of Nations Assembly 1928; Sec. Italian Legation, Berne 1930, Cairo 1931; First Sec., Washington 1933, Moscow 1936; Counsellor of Embassy, Santiago 1940; Head of Press Bureau Foreign Office, Rome 1944; Counsellor Office of Italian Rep., London 1944, Minister Counsellor, Chargé d'Affaires, London 1947; Minister Counsellor, Italian Embassy, London 1947-48; Minister to Sweden 1948-51; Dir.-Gen. for Cultural Relations, Ministry of Foreign Affairs, Rome 1952-55; Del. 7th Gen. Conf., UNESCO Paris 1952, 8th Gen. Conf. Montevideo 1954; mem. Cttee. of Cultural Experts, Council of Europe, Strasbourg 1952-55; Chief of Foreign Minister's Cabinet, Ministry of Foreign Affairs

1955-57; mem. dels. to UN, NATO, ECSC, WEU, EURATOM 1955-57; Amb. to Vatican City 1954-64, mem. Town Council, Genoa 1965-66; now Pres. Altas Copco Italia S.p.A., Milan, EMAC S.p.A., Turin; Hon. Sec. Italian Comm., mem. Bd., Dir. Int. Council United World Colleges; mem. Council "Contensioso Dipl.", Ministry Foreign Affairs; mem. Gen. Council Int. Fair, Genoa. *Leisure interests:* music, mountains. *Address:* Via Valdagno 8, 00191 Rome, Italy. *Telephone:* 328 2735.

MIGUEL, Col. Mário Firmino; Portuguese army officer and government official; b. 11 March 1932, Sintra; s. of João Francisco Miguel and Domingas da Conceição Firmino Miguel; m. Maria Luisa de Carvalho Pereira Miguel 1967; one s. one d.; ed. Zaragoza Mil. Acad., Spain, Higher Mil. Studies at Staff Course, Portugal, Ecole Supérieure de Guerre, Paris; Commdr. No. 2 Infantry Regt. 1954-55; Instructor in Army School 1955-56, 1958-59; Officer in Mil. Command, Portuguese India 1956-58; Commdr. at Mil. Acad. 1959-61; Officer in combat zone, Angola 1961-63; served in office of Army Chief of Staff 1966-70; Prof., Inst. of Higher Mil. Studies 1963-70; Head of Operations Dept., Gen. Command in Portuguese Guinea (now Guinea-Bissau) 1970-72; Asst. in office of Army Chief of Staff 1972-73; Prof., Inst. of Higher Mil. Studies 1972-75; Minister of Nat. Defence in First and Second Provisional Govts. May-Sept. 1974; Chief of 4th Dept., HQ of Mil. Area of Angola 1975; Asst. to Army Chief of Staff 1975-76; Minister of Nat. Defence July 1976-; Silver Medal of Mil. Appraisal (in combat), Silver Medal for Distinguished Service (in combat), Medal of Mil. Merit, Grand Cross of Mil. Order of Avis, Medal for Exemplary Conduct, Order of Mil. Merit (Spain), Order of Southern Cross (Brazil). *Publications:* articles and essays on mil. subjects. *Leisure interests:* reading, collecting stamps and coins. *Address:* Calçada do Conde de Penafiel 34, 1 Esq., Lisbon, Portugal. *Telephone:* 864368.

MÍGUEZ-BONINO, Rev. José, M.A.; Argentine clergyman, professor of theology and international church official; b. 5 March 1924, Santa Fé; s. of José Míguez Gándara and Aurelia Bonino; m. Noemi Nieuwenhuize 1947; ed. Facultad Evangélica de Teología, Emory Univ., Union Theological Seminary, New York; Methodist minister in Bolivia, later in Argentina 1945-; Prof. of Theology, Facultad Evangelica de Teología, Buenos Aires 1954-70, Rector 1960-70; Prof. of Systematic Theology and Ethics, Protestant Inst. for Higher Theological Studies, Buenos Aires 1970-, Dean of Post-Graduate Studies 1973-; mem. Cen. Cttee. of World Council of Churches (WCC) 1968-75, a Pres. Presidium of WCC 1976-; Visiting Prof., Facoltà Valdese de Teologia, Rome 1963, Union Theological Seminary, New York 1967-68, Selly Oak Coll., Birmingham, U.K. 1974; Observer at II Vatican Council 1962-64; Hon. PH.D. (Candler School of Theol.). *Publications:* Concilio abierto 1968, Integración humana y unidad cristiana 1968, Ama y haz lo que quieras 1972, Theology in a Revolutionary Situation (trans. in Dutch, German, Italian) 1975, Espacio para ser hombres 1975, Christians and Marxists 1976, articles in Concilium, Expository Times, Evangelische Kommentare. *Address:* Camacua 282, 1406 Buenos Aires; Madero 591, 1706 Villa Sarmiento, Haedo, Buenos Aires, Argentina. *Telephone:* 632-5039 (Buenos Aires).

MIGULIN, Vladimir Vasiliyevich, D.SC.; Soviet physicist; b. 10 July 1911, Furmanov, Ivanov Region; s. of Vasiliy Alexseyevich and Polina Migulin; m. 2nd Marianna Nikolayevna Sokolova; two s. one d.; ed. Faculty of Physics and Mechanics of Polytechnical Inst. of Leningrad; Engineer in Research Inst. of Leningrad 1932-34; Sr. Research Fellow, Chief of Div. Physical Inst. of the Acad. of Sciences of U.S.S.R., Moscow, 1934-51; Asst. Lecturer 1935-38, Lecturer 1939-46, Prof. 1947-54, 1957-, Deputy Dean of the Faculty of Physics 1954-57, Moscow Univ.; Dir. Inst. of Physical Research at Suchumi 1951-54; Deputy Dir.-Gen. Int. Atomic Energy Agency for the Div. of Training and Technical Information 1958-59; Editor Moscow Univ. Bulletin, Physics and Astronomy section 1960-69; Chief, Div. of Inst. of Radio-engineering and Electronics, Acad. of Sciences of U.S.S.R. 1962-69; Dir. Inst. of Terrestrial Magnetism, the Ionosphere and Radio Wave Propagation (IZMIRAN), Acad. of Sciences of U.S.S.R. 1969-; Vice-Pres. URSI 1972-78; mem. Popov Soc. on Radio Technology and Electrocommunications 1949-; Corresp. mem. U.S.S.R. Acad. of Sciences 1970-; mem. CPSU 1945-; U.S.S.R. State prize for scientific works 1946, 1953; Order of Lenin; several Orders of the Soviet Union and French-Soviet and U.S.-Soviet medals. *Publications:* include numerous books, papers and articles in scientific journals on investigations of electrical oscillations in non-linear and parametric systems, investigations of the propagation of radio waves by interference methods and circuit theory and investigations of new methods of receiving of mm and sub-mm e-m waves and ionospheric radio wave propagation. *Leisure interests:* skiing, tourism, music. *Address:* IZMIRAN, City Troitzk, 142092 Moscow Region, U.S.S.R. *Telephone:* 232-19-21

MIHÁLIK, Vojtech; Czechoslovak (Slovak) poet and politician; b. 30 March 1926, Dolná Streda; ed. Comenius Univ., Bratislava; Slovak Writers' Publishing House, Bratislava 1949-51; mem. editorial staff Československý voják 1952-54; Sec. Union of Slovak Writers 1954-60; Ed.-in-Chief, Slovak Writers' Publishing House 1960-64; Slovak Centre of Publishing and Book Trade 1964; Deputy to Slovak Nat. Council 1964-, mem. Presidium 1968-69; First Sec. Union of Slovak Writers 1965-67, Chair. 1969-, mem. Presidium 1975-; mem. Cen. Cttee. of CP of Slovakia 1966-68, 1969-71, alt. mem. 1971-76, mem. 1976-; mem. Presidium Fed. Assembly 1969-71, Deputy Chair. of Fed. Assembly and Chair. of House of Nations 1969-71, Deputy to House of Nations 1971-; mem. Communità Europea degli Scrittori (COMES) 1962-; Chair. Cttee. for Educ. and Culture, Slovak Nat. Council 1969-70; Chair. Cultural Cttee., House of Nations, Fed. Assembly 1971-76; Dir. Slovensky Spisovatel (Slovak Writer) Publishing House 1977-; Artist of Merit 1966, Order of Labour 1976, National Artist 1978. *Publications:* Sixteen vols. of poetry including: The Plebeian Shirt 1950, The Singing Heart 1952 (State Prize), Archimedes Circles 1960, The Rebel Job 1960 (Prize of Czechoslovak Union of Writers 1961), Appassionata 1965 (Prize of the Slovak Writers' Publishing House), Black Autumn 1970, The Thirteenth Room 1976; Man against Blindness 1974 (critical essays); translations of Greek, Latin, Polish, French, Spanish and American poetry. *Address:* Bratislava, Hollého 15, Czechoslovakia.

MIHÁLY, András; Hungarian composer and professor of chamber music; b. 6 Nov. 1917, Budapest; s. of Dezsö Mauthner and Erzsébet Grosz; m. 2nd Klára Pfeifer 1951, 3rd Csilla Varga; three s.; ed. Berzsenyi Gymnasium and F. Liszt Conservatoire of Music, Budapest; first violoncello solo in orchestra of Budapest Opera House 1946-47; Gen. Sec. of Budapest Opera 1948-49; Prof. of Chamber Music, F. Liszt Conservatoire, Budapest 1950-; Reader of Contemporary Music, Musical Dept., Hungarian Broadcasting Corpn. 1959-; Leader New Hungarian Chamber Ensemble; Kossuth Prize 1955; Erkel Prize 1950, 1965; Liszt Prize 1972; Labour Order of Merit golden degree 1970; Eminent Artist of Hungary, "For Socialist Hungary" Order of Merit 1977. *Works include:* Concerto for Violoncello and Orchestra 1953, Concerto for Pianoforte and Orchestra 1954, Fantasy for Wind Quintet and String Orchestra 1955, Songs on the Poems of James Joyce 1958, Concerto for Violin and Orchestra 1959, String Quartet 1960, Symphony 1962, Together and Alone (opera in two acts) 1965. *Leisure interest:* reading. *Address:* Vérhalom tér 9b, 1025 Budapest II, Hungary. *Telephone:* 352-295.

MIHARA, Asao; Japanese politician; b. 1909; Deputy Speaker of Fukuoka Prefectural Assembly; elected five times to House of Reps. 1963-; Parl. Deputy Dir.-Gen. of Defence Agency; Parl. Deputy Chief Cabinet Sec.; Vice-Chair. of Diet Policy Cttee. of Liberal Democratic Party (LDP); Chair. House of Reps. Cabinet Cttee.; Minister of Educ. Nov.-Dec. 1974; Minister of State, Dir.-Gen. of Defence Agency 1976-77; Minister of State, Dir.-Gen. of Prime Minister's Office and of Okinawa Devt. Agency 1978-. *Address:* c/o Office of the Prime Minster, Tokyo, Japan.

MIKHAILOV, Aleksandr Aleksandrovich; Soviet astronomer; b. 26 April 1888, Morshansk, Tambov Region; ed. Moscow Univ.; Prof. Moscow Univ. 1918-48; Dir. Main Astronomical Observatory, U.S.S.R. Academy of Sciences, Pulkovo 1947-64; Corresp. mem. U.S.S.R. Acad. of Sciences 1943-64, mem. 1964-; Chair. Astronomical Council, U.S.S.R. Acad. of Sciences 1939-60; mem. CPSU 1956-; Vice-Pres. Int. Astronomical Union 1946-48, 1967; mem. Deutsche Akademie der Naturforscher Leopoldina 1959; Assoc. Royal Astronomical Soc. 1960; Corresp. mem. Bureau des Longitudes, Paris 1946; Dr. Sc. (Univ. of Copenhagen) 1946; Order of October Revolution, Polish Order of Merit; Order of Lenin (four times), Hero of Socialist Labour, Hammer and Sickle Gold Medal. *Publications include:* Garimetry and Figures of the Earth 1939, Theory of Eclipses 1945, 1954, Star Atlases 1920, 1958, 1965, 1969, 1973, and several publs. on astronomical constants. *Address:* Pulkovo Observatory, 196140 Leningrad, U.S.S.R.

MIKHALKOV, Sergey Vladimirovich; Soviet poet, playwright and children's writer; b. 12 March 1913, Moscow; ed. Literary Inst. Moscow; began writing 1928, verses for children 1935; joint author (with El-Registan) Soviet Anthem 1943; mem. CPSU 1950-; First Sec. Moscow Branch, R.S.F.S.R. Union of Writers 1965-70, Chair. of Union 1970-; Deputy to Supreme Soviet of R.S.F.S.R. 1967-70, to U.S.S.R. Supreme Soviet 1970-; mem. Comm. for Youth Affairs, Soviet of Nationalities; fmr. Corresp. mem. Acad. of Pedagogical Sciences, Academician 1970-; three Orders of Lenin, Hero of Socialist Labour 1973, Red Banner, Red Banner of Labour, Red Star, Lenin Prize 1970, four State Prizes, Merited Worker of Arts of R.S.F.S.R. 1967. *Publications:* Dyadya Styopa (Uncle Steve)

1936 and Collected Works (poems, stories, plays) in two vols.; *Film script:* Frontovye podrugi (Frontline Friends) 1941; *Plays:* Tom Kenti (after Mark Twain) 1938, Krasnyi galstuk (Red Neckerchief), Selected Works 1947, Ilya Golovin, Ya khochu domoi (I Want to Go Home) 1949, Raki (Lobsters) 1952, Zaika-Zaznaika 1955, Basni Mikhalkova 1957, Sombrero 1958, Pamyatnik Sebe (A Monument to Oneself) 1958, Dikari (Campers) 1959, Collected Works (4 Vols.) 1964, Green Grasshopper 1964, We are Together, My Friend and I 1967, In the Museum of Lenin 1968, Fables 1970, Disobedience Day 1971, The Funny Bone (articles) 1971, Collected Works (3 vols.) 1970-71, Selected Works 1973. *Address:* U.S.S.R. Union of Writers, ulitsa Vorovskogo 52, Moscow, U.S.S.R.

MIKI, Takeo, LL.M.; Japanese politician; b. 17 March 1907, Tokushima-ken; s. of Hisakichi Ino and Takano Miki; m. Mutsuko Mori 1940; two s. one d.; ed. Meiji Univ., Tokyo; mem. House of Reps. 1937-; Minister of Communications 1947-48, of Transport 1954-55; Sec.-Gen. Liberal-Democratic Party 1956, 1964; State Min., Dir. of Econ. Planning Agency 1958-59; Dir. of Science and Technology Agency, Chair. of Atomic Energy Comm. 1961-62; Minister of Int. Trade and Industry 1965-66, of Foreign Affairs 1966-68; Deputy Prime Minister, Minister of State and Dir. Environmental Agency 1972-74; Pres. Liberal-Democratic Party 1974-76; Prime Minister 1974-76; Hon. LL.D. (Univ. of Southern Calif.). *Leisure interest:* gardening. *Address:* 18-20 Nampeidai-machi, Shibuya-ku, Tokyo 150, Japan. *Telephone:* (03) 463-8000.

MIKO, Benjamin Ecua; Equatorial Guinea diplomatist; b. 23 June 1949, Ebebiyun, Rio Muni; m.; two c.; ed. Bata and Malabo; administrative official, Ministry of External Relations 1970-72; Second Sec., Embassy in Ethiopia 1972-74; Perm. Rep. to UN 1974-76; mem. del. to OAU and UN confs. *Address:* c/o Ministry of Foreign Affairs, Malabo, Equatorial Guinea.

MIKULIN, Aleksandr Aleksandrovich; Soviet aircraft engine designer; b. 4 Feb. 1895, Vladimir; Constructor at the Scientific Inst. for Auto-Motors 1923; Maj.-Gen. in the Eng.-Technical Service 1943; Dip. of Dr. of Technological Science 1938; mem. Acad. of Sciences of U.S.S.R. 1943-; mem. CPSU 1954; Hero of Socialist Labour 1940; U.S.S.R. State Prize (four times); Order of Lenin (three times), Order of Suvorov 1st and 2nd Class; many other decorations. *Principal designs:* the AM-34 engine (first Polar Flight) 1929, the AM-35, used in MiG planes 1937, the AM-38f, for the IL-2 fighter 1941-45; the AM-42; the first Soviet turbo-compressor and variable-pitch airscrew; also a number of jet engines. *Address:* Ministry of Aircraft Industry, Moscow, U.S.S.R.

MILBANK, Samuel Robbins, A.B.; American banker; b. 16 March 1906; ed. Princeton Univ.; with Brown Bros. & Co., New York 1929-31; joined Wood, Struthers and Winthrop 1931, Gen. Partner 1936-69, Chair. of Bd. 1969-71, Consultant 1972-; Pres. Milbank Memorial Fund; Pres. Pine Street Fund 1949-72, Dir. 1972-; Pres. Memton Fund; Bd. Rosario Resources Corpn. 1964-77, Chair. Exec. Cttee. 1977-; Dir. many corpns.; Chair. Bd. of Trustees, Barnard Coll., N.Y.; Pres. American Numismatic Soc.; Fellow Royal Numismatic Soc. (Great Britain). *Address:* 20 Exchange Place, New York, N.Y. 10005; 100 North Arlington Street, Reno, Nev. 89501, U.S.A. (Home).

MILCZAREK, Maria, M.A.; Polish politician; b. 18 Nov. 1929, Poznań; m.; one s.; ed. Higher Inst. of Educ., Warsaw and Warsaw Univ.; manual worker in H. Cegielski metal works, Poznań 1942-45; worked for Polish Teachers' Assen. (ZNP), Warsaw 1946-53; mem. Polish United Workers' Party (PZPR) 1949-; various party posts 1954-59, Deputy Head of Dept. of Educ. and Science of Warsaw Voivodship Cttee. 1959-61, First Sec. of District Cttee. for Warsaw-Ochota 1961-68; alt. mem. PZPR Cen. Cttee. 1968-75; Chair. Gen. Council of Women's League until 1977 and Nat. Council of Polish Women 1968-75; First Sec. Skierniewice Voivodship Cttee. of PZPR and Skierniewice Voivodship Nat. Council 1975-76; mem. PZPR Cen. Cttee. Dec. 1975-; Minister of Admin., Local Econ. and Environmental Protection Dec. 1976-; Deputy to Seym; Chair. Polish-Libyan Soc.; Order of Banner of Labour, Second Class, Commdr.'s Cross, Order of Polonia Restituta. *Address:* Ministerstwo Administracji, Gospodarki Terenowej i Ochrony Środowiska, ul. Filtrowa 57, 02-056 Warsaw, Poland.

MILEIKOWSKY, Curt, DR.TECH.; Swedish business executive; b. 1 May 1923, Stockholm; s. of Gregor Mileikowsky and Margit Wallis; m. Ulla B. Varenius 1947; two s.; ed. Royal Inst. of Technology; Research engineer, ASEA, Ludvika 1946; Research Asst. to Prof. Lise Meitner 1946-47, Nobel Inst. of Physics 1948-54, ASEA, Västerås 1954; Man. Nuclear Power Dept., ASEA 1958, Exec. Vice-Pres. for Sales 1962; Pres. SAAB, Linköping 1968-78, SAAB-Scania, Linköping 1969-72. *Publications:* Scientific and technical publications in Sweden and U.S.A. *Address:* c/o SAAB-Scania AB, 581 88 Linköping; Kungsgatan 43, 582 22 Linköping, Sweden (Home).

MILES, Baron (Life Peer) cr. 1979, of Blackfriars in the County of London; **Bernard Miles** Kt., C.B.E.; British actor and director; b. 27 Sept. 1907; ed. Uxbridge County School and Pembroke Coll., Oxford; first stage appearance 1930; written for, directed, and acted in films 1937-; West End stage appearances 1938-; music-hall stage appearances 1950-; founded Mermaid Theatre, North London 1950, formed Mermaid Theatre Trust, opened Mermaid Theatre in City of London 1959; Hon. D.Litt. (City Univ.) 1974; *Publication:* Favourite Tales from Shakespeare 1976. *Address:* Mermaid Theatre, Puddle Dock, Blackfriars, London, EC4V 3B, England.

MILES, Frank Stephen, C.M.G., M.A., M.P.A.; British diplomatist; b. 7 Jan. 1920, Edinburgh; s. of late Harry and Mary Miles; m. Joy Theaker 1953; three d.; ed. Daniel Stewart's Coll. Edinburgh, St. Andrews Univ., Harvard Univ.; served with Fleet Air Arm, Lt. RNVR 1942-46; Scottish Home Dept. 1948; Foreign and Commonwealth Office 1948-; diplomatic posts in New Zealand 1949-52, Pakistan 1954-57, Ghana 1959-62, Uganda 1962-63; Deputy High Commr. in Tanzania 1963-65; Acting High Commr. in Ghana March-April 1966; Consul-Gen. St. Louis 1967-70; Deputy High Commr. in Calcutta 1970-74; High Commr. in Zambia 1974-78, to Bangladesh March 1978-. *Leisure interests:* cricket, tennis, golf. *Address:* British High Commission, D.I.T. Building Annexe, P.O. Box 90, Dacca 2, Bangladesh.

MILES, Josephine, PH.D.; American poet; b. 11 June 1911; ed. Univ. of California (Los Angeles and Berkeley); Instructor in English, Univ. of Calif. (Berkeley) 1940, Prof. of English 1952-, Univ. Prof. 1973-; mem. American Acad. of Arts and Sciences 1964; Shelley Award for Poetry 1935, Nat. Inst. of Arts and Letters Award for Poetry 1956, Nat. Endowment for the Arts Award 1968. *Publications:* Poetry: Lines of Intersection 1939, Poems on Several Occasions 1941, Local Measures 1946, Prefabrications 1955, Poems 1930-60 1960, Civil Poems 1966, Kinds of Affection 1967, Fields of Learning Poems 1968, To All Appearances: Poems New and Selected 1974; Prose: Vocabulary of Poetry 1946, Continuity of Poetic Language 1951, Eras and Modes in English Poetry 1957, Renaissance, Eighteenth Century and Modern Language in Poetry 1960, Emerson 1964, Style and Proportion in the Language of Prose and Poetry 1967, Poetry and Change 1974. *Address:* 2275 Virginia Street, Berkeley, California 94709, U.S.A.

MILI, Mohamed Ezzedine; Tunisian telecommunications engineer and international official; b. 4 Dec. 1917, Djemmal; m. Mlle. Zouhir 1950; three s. two d.; ed. Teacher's Training Coll., Tunis, Ecole Normale Supérieure, Paris, Sorbonne and Ecole Nat. Supérieure des Télécommunications, Paris; joined Posts, Telegraphs and Communications (P.T.T.) Admin. 1948; Chief Engineer and Dir.-Gen. of Telecommunications, Ministry of P.T.T. 1957; Tunisian del. to ITU confs. 1956-, mem. ITU Admin. Council 1960-65, Chair. of 19th session 1964; Deputy Sec.-Gen. ITU 1965-67, Sec.-Gen. 1967-; Senior mem. I.E.E.E.; Officer, Order of Independence of Tunisia, Commdr. Order of the Tunisian Repub., Commdr. Swedish Order of Vasa, Grand Cross Order of Duarte, Sanchez y Mella with silver star (Dominican Repub.), Honour Merit Medal (Paraguay), Grand Star of Order of Merit of Telecommunications (Spain), Commdr. of the Order of Leopold (Belgium), Philipp Reis Medal (Fed. Repub. of Germany), Diploma of Honour (Int. Council of Archives) 1978. *Leisure interests:* reading scientific publications, youth movements. *Address:* International Telecommunications Union, Place des Nations, 1211 Geneva 20; 5 route de Mon Idée, 1226 Thônex, Geneva, Switzerland (Home). *Telephone:* 022-48-79-19 (Home).

MILLAN, Rt. Hon. Bruce, P.C.; British politician; b. 5 Oct. 1927; m. Gwendoline Fairey 1953; one s. one d.; ed. Harris Acad., Dundee; worked as Chartered Accountant 1950-59; M.P. for Craigton Div. of Glasgow 1959-; Parl. Under-Sec. of State for Defence (R.A.F.) 1964-66, for Scotland 1966-70; Minister of State, Scottish Office 1974-76, Sec. of State for Scotland 1976-79; Opposition Spokesman for Scotland June 1979-; Labour. *Address:* House of Commons, Westminster, London, S.W.1; 46 Hardy Road, London, S.E.3, England (Home). *Telephone:* 01-858 5634 (Home).

MILLARD, Sir Guy Elwin, K.C.M.G., C.V.O. ; British diplomatist (retd.); b. 22 Jan. 1917; m. 1st Anne Mackenzie 1946; one s. one d.; m. 2nd Judy Dugdale 1964; two s.; joined Foreign Office 1939; navy service 1940-41; Foreign Office 1941-45; Paris 1945-49; Ankara 1949-52; Imperial Defence Coll. 1953; Foreign Office 1954-55; Private Sec. to Prime Minister 1955-57; Office of Paymaster-Gen. 1957-59; Counsellor, Teheran 1959; Foreign Office 1962-64; Deputy Perm. Rep. NATO 1964-67; Amb. to Hungary 1967-69; Minister, Washington, D.C. 1970-71; Amb. to Sweden 1971-74, to Italy 1974-76. *Address:* Fyfield Manor, Southrop, Glos., England.

MILLAS CORREA, Orlando; Chilean journalist and politician; b. 14 Dec. 1918, Santiago; m. Adriana Pérez Ibáñez; one s. two d.; ed. Instituto Nacional and Univ. de Chile; Gen. Sec. Círculo de Periodistas (journalists' union) 1935-53; mem. Council Nat. Soc. of Journalists; mem. Soc. of Authors of Chile; Dir. El Siglo (Santiago newspaper); mem. Political Bureau, Partido Comunista de Chile; mem. Chamber of Deputies 1961-73, Vice-Pres. 1963; Minister of Finance 1972-73, of Econ. March-Sept. 1973. *Publications:* El fracaso del Gobierno de los Gerentes, Los comunistas, los católicos y la libertad 1963, Prontuario de la Ley Mordaza 1964. *Leisure interests:* politics, reading economic and Marxist works. *Address:* c/o Embassy of Netherlands, Santiago, Chile.

MILLE, Hervé; French journalist; b. 23 Sept. 1909; Ed. Eclaireur de Nice and Paris Soir 1928-32; London correspondent of Paris Soir 1933-35; Editorial Dir. Paris Soir, Paris Midi, Marie Claire, Match 1936-42; Dir. Paris Match 1949-69, Marie Claire 1954-69, Télé-sept-jours 1960-. *Address:* 32 ave. George V, 75008 Paris, France.

MILLER, Arjay, B.S.; American business executive; b. 4 March 1916, Shelby, Neb.; s. of Rawley John Miller and Mary Gertrude Schade; m. Frances M. Fearing 1940; one s. one d.; ed. Univ. of California; Teaching Asst. Univ. of Calif. Berkeley 1937-40; Research Technician, Calif. State Planning Bd. 1941; Economist, Fed. Reserve Bank of San Francisco 1941-43; U.S.A.F. 1943-46; Asst. Treas. Ford Motor Co. 1947-53, Controller 1953-57, Vice-Pres. and Controller 1957-61, Vice-Pres. (Finance) 1961-62, Vice-Pres. (Staff-Group) 1962-63, Dir. 1962-, Pres. 1963-68, Vice-Chair. 1968-69; Dean Graduate School of Business, Stanford Univ. 1969-; Trustee of several insts. and mem. of various cttees.; Dir. Wells Fargo Bank 1968; Dir. Wells Fargo, Utah Int. Inc., Washington Post Co., Levi Strauss & Co.; Hon. D.Jur. (Calif., Nebraska Univs., Whitman Coll.). *Publication:* An Economic and Industrial Survey of the Los Angeles and San Diego Areas (with Arthur G. Coons) 1941. *Leisure interests:* archaeology, golf, hunting, forestry. *Address:* Graduate School of Business, Stanford University, Stanford, Calif. 94305, U.S.A.

MILLER, Arthur, A.B.; American playwright; b. 17 Oct. 1915, New York; s. of Isidore and Augusta (Barnett) Miller; m. 1st Mary Grace Slattery 1940 (divorced 1956), one s. one d.; 2nd Marilyn Monroe 1956 (divorced 1961); 3rd Ingeborg Morath 1962, one d.; ed. Univ. of Michigan; received Hopwood Award for play-writing, Univ. of Mich. 1936 and 1937, Theatre Guild Nat. Award 1938, New York Drama Critics Circle Award 1947 and 1949, Pulitzer Prize for Drama 1949, Antoinette Perry Award 1953, American Acad. of Arts and Letters Gold Medal for Drama 1959, Anglo-American Award 1966, Creative Arts Award, Brandeis Univ. 1970; Pres. Int. PEN Clubs Org. 1965-69. *Publications:* The Man Who Had All the Luck 1943, Situation Normal 1944, Focus 1945, All My Sons 1947, Death of a Salesman 1949, The Crucible 1953, A View From The Bridge 1955, A Memory of Two Mondays 1955, Collected Plays 1958, The Misfits (screenplay) 1959, After the Fall 1964, Incident at Vichy 1964, I Don't Need You Any More (short stories) 1967, The Price (play) 1968, In Russia (with Inge Morath) 1969, The Creation of the World and Other Business (play) 1972, Up From Paradise 1974. *Address:* c/o IFA Inc., 1301 6th Avenue, New York, N.Y. 10019, U.S.A.

MILLER, George A., PH.D.; American professor of psychology; b. 3 Feb. 1920, Charleston, W. Va.; ed. Univ. of Alabama and Harvard Univ.; Assoc. Prof. of Psychology, M.I.T. 1951-55, Visiting Prof. 1976-; Assoc. Prof. Psychology, Harvard Univ. 1955-58, Prof. 1958-68, Co-Dir. Center for Cognitive Studies 1960-67, Chair. Dept. of Psychology 1964-67; Visiting Prof., The Rockefeller Univ. 1967-68, Prof. of Psychology 1968-; Pres. American Psychological Assn. 1968-69; mem. Nat. Acad. of Sciences; Pres. Eastern Psychological Assn. 1961-62; Dr. h.c. (Univ. Catholique de Louvain) 1976; Distinguished Scientific Contribution Award, American Psychological Assn. 1963, Warren Medal, Soc. of Experimental Psychology 1972. *Publications:* Language and Communication 1951, Psychology 1962, Language and Perception (Co-author) 1976, Spontaneous Apprentices 1977. *Address:* The Rockefeller University, 1230 York Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* (212) 360-1801.

MILLER, (George) William, B.S., J.D.; American business executive and public official; b. 9 March 1925, Sapulpa, Okla.; ed. U.S. Coast Guard Acad., New London, Univ. of Calif. School of Law, Berkeley; served as line officer in Pacific area, stationed in China for a year; lawyer with Cravath, Swaine and Moore, New York, N.Y. 1952-56; joined Textron Inc. as Asst. Sec. 1956, Vice-Pres. 1957-60, Pres. 1960-74, Chief Exec. Officer 1968-78, Chair. 1974-78; Chair. Fed. Reserve Bd. March 1978-; Dir. Allied Chem. Corpn., Fed. Reserve Bank of Boston, Nat. Alliance of Business, UN Assn. of U.S.; Trustee, Conf. Bd.; mem. Business Council, Nat. Council on the Humanities 1966-67, State Bar of Calif., City of New York Bar; nat. fund-raising Chair. for Brown Univ.'s medical educ. programme 1966-69. *Address:* Federal Reserve Board, 20th Street and Constitution Avenue, Washington, D.C. 20551, U.S.A.

MILLER, Henry Valentine; American writer; b. 26 Dec. 1891, New York; m. 1st Beatrice Wickans 1917 (divorced 1924), one d.; m. 2nd June Smith 1924 (divorced 1934); m. 3rd Janina Lepska 1944 (divorced), one s. one d.; m. 4th Eve McClure 1953 (divorced 1962); m. 5th Hoki Tokuda 1967; ed. City Coll., New York, and Cornell Univ.; lived in Paris 1930-38, ed. and contributed to Phoenix, Booster, and other literary magazines; Athens 1938-39; returned to U.S.A. 1940; mem. Nat. Inst. Arts and Letters; Légion d'honneur. *Publications:* Novels include: Tropic of Cancer 1932, Tropic of Capricorn 1935, Black Spring 1936, Max and the White Phagocytes 1938, The Cosmological Eye 1939, The World of Sex 1940 (revised version 1957), The Wisdom of the Heart 1941, The Colossus of Maroussi 1941, Sunday after the War 1944, The Air-Conditioned Nightmare (two vols.) 1945-47, Maurizius Forever 1946, The Smile at the Foot of the Ladder 1948, Sexus 1949, The Books in My Life 1952, Plexus 1953, Quiet Days in Clichy 1956, Big Sur and the Oranges of Hieronymus Bosch 1958, Nexus 1959, Stand Still Like the Hummingbird 1962, Books Tangent to Circles 1964, World of Sex 1965, First Impressions of Greece 1973, J'Suis Pas Plus Con Qu'un Autre 1976; play: Just Wild About Harry 1963; autobiography: My Life and Times 1972. *Address:* c/o Grove Press, 80 University Place, New York, N.Y. 10003, U.S.A.

MILLER, Jack Richard, A.B., M.A., J.D.; American lawyer, judge and politician; b. 6 June 1916, Chicago, Ill.; s. of Forest W. and Blanche M. Miller; m. Isabelle Margaret Browning 1942; one s. three d.; ed. Creighton Univ., Catholic Univ., Washington, D.C., Columbia Univ.; U.S.A.F. in Second World War; Brig.-Gen. U.S.A.F. Reserve (retd.); Attorney, Office of Chief Counsel, Internal Revenue Service (Fed. Govt.) 1947-48; Lecturer in Taxation, George Washington Univ. 1948; Asst. Prof. of Law, Notre Dame Univ. Coll. of Law 1948-49; mem. Iowa House of Reps. 1955-56, Iowa State Senate 1957-60, U.S. Senator from Iowa 1961-73; Judge, U.S. Court of Customs and Patent Appeals 1973-; Hon. LL.D. (Iowa Wesleyan Coll., Loras Coll., Creighton Univ., Yonsei Univ., Korea); Republican. *Publications:* Prentice-Hall Tax Ideas Service (in co-operation). *Leisure interests:* golf, fishing, hunting. *Address:* 717 Madison Place, N.W., Washington, D.C. 20439; 5417 Kirkwood Drive, Washington, D.C. 20016, U.S.A. (Home). *Telephone:* (202) 347-4261 (Office); (301) 320-4392 (Home).

MILLER, James Roscoe, LL.D., M.D., M.S., D.SC.; American fmr. university chancellor; b. 26 Oct. 1905, Murray, Utah; s. of Leroy Cromwell and Marjorie (née Sidley); m. Berenice Johannesen 1928; one s. two d.; ed. Univ. of Utah and Northwestern Univ.; Asst. Prof. of Medicine, Northwestern Univ. Med. School 1938-41, Assoc. Prof. 1941-49, Prof. 1949-74, Prof. Emer. 1974-, Asst. Dean 1933-41, Dean 1941-49; Pres. Northwestern Univ. 1949-69, Chancellor 1969-74, Emer. Chancellor 1974-; Dir. First Nat. Bank and Trust Co., Evanston, Ill., Fidelity Life Assen., Fed. Kemper Life Assurance Co., Northwestern Memorial Hosp., American Hosp. Supply Corpn., Prentice Women's Hosp. and Maternity Center of Chicago, Evanston Hosp.; Trustee, Evanston Hosp., Museum of Science and Industry, Field Museum of Natural History, Savings and Profit Sharing Fund of Sears Employees; mem. A.A.A.S., Bd. of Overseas Hoover Inst.; fmr. mem. Hoover Comm. Medical Task Force; Hon. L.H.D. and Litt.D. *Publications:* on internal medicine and medical education. *Address:* 2870 Sheridan Place, Evanston, Ill. 60201, U.S.A. (Home).

MILLER, Jonathan Wolfe, M.B., B.CH.; British stage and film director and physician; b. 21 July 1934, London; m. Helen Rachel Collet 1956; two s. one d.; ed. St. Paul's School, St. John's Coll., Cambridge and Univ. Coll. Hosp. Medical School, London; co-author of and appeared in Beyond the Fringe 1961-64; directed John Osborne's Under Plain Cover, Royal Court Theatre 1962, Robert Lowell's The Old Glory, New York 1964 and Prometheus Bound, Yale Drama School 1967; directed at Nottingham Playhouse 1968-69; directed Oxford and Cambridge Shakespeare Co. production of Twelfth Night on tour in U.S.A. 1969; Research Fellow in the History of Medicine, Univ. Coll., London 1970-73; Assoc. Dir. Nat. Theatre 1973-75; mem. Arts Council 1975-76; Dir. of the Year, Soc. of West End Theatre Awards 1976; Visiting Prof. in Drama, Westfield Coll., Univ. of London 1977-. *Productions:* for Nat. Theatre, London: The Merchant of Venice 1970, Danton's Death 1971, The School for Scandal 1972, The Marriage of Figaro 1974; other productions The Tempest, London 1970, Prometheus Bound, London 1971, The Taming of the Shrew, Chichester 1972, The Seagull, Chichester 1973, The Malcontent, Nottingham 1973, The

Family in Love, Greenwich Season 1974, Arden Must Die (opera) 1974, The Importance of Being Earnest 1975, The Cunning Little Vixen 1975, All's Well That Ends Well, Measure For Measure, Greenwich Season 1975, Three Sisters 1977, The Marriage of Figaro (English Nat. Opera) 1978; films: Take a Girl Like You 1969 and several films for television including Whistle and I'll Come to You 1967, Alice in Wonderland 1967, series The Body in Question 1978. *Publication:* The Body in Question 1978. *Address:* 63 Gloucester Crescent, London, N.W.1., England.

MILLER, Otto Neil, PH.D.; American business executive; b. 9 Jan. 1909; m. Alberta Maeder Hogue 1935 (deceased 1973); ed. Univ. of Michigan; Researcher, Standard Oil Co. of Calif. 1934, Arabian operations 1941-43, Gen. Man. Mfg. Dept. 1946-53, Vice-Pres. nat. gas utilization, crude pricing, East coast operations 1957-58, Dir. and Vice-Pres. foreign operations 1959-60, Pres. 1961-65, Chair. and Chief Exec. Officer 1966-74; Chair. of Bd. American Petroleum Inst., Nat. Ind. Conf. Bd.; Dir. Calif. State Chamber of Commerce, San Francisco Opera Assn., Crocker Nat. Bank, Weyerhaeuser Co. 1973, Equitable Life Assurance Soc. of U.S.; mem. Business Council, Nat. Acad. of Eng., Nat. Petroleum Council, Conf. Bd. Inc., U.S. Nat. Cttee. of the World Energy Conf., American Inst. of Chemical Engineers, Nat. Review Bd. of East-West Center, Honolulu; Trustee, Cttee. for Econ. Devt. *Address:* 555 Market Street, San Francisco, Calif. 94105, U.S.A.

MILLER, Paul A.; American business executive; m.; one s.; ed. Western Reserve Univ.; joined Leece-Neville Co. 1934, Vice-Pres. until 1954; with Ford Motor Co. 1954-59; Gen. Man. Fasteners Div., Eaton Corpn. 1959, Gen. Man. Axle Div. 1969, Corporate Group Vice-Pres. Truck Components 1969-71, Exec. Vice-Pres. Operations 1971-73, Dir. 1972-, Pres. 1973-78; Dir. Nat. City Bank of Cleveland; mem. Hon. Advisory Cttee. Soc. of Automotive Engineers, American Management Assn., Newcomen Soc. and other professional, civic and philanthropic orgs. *Address:* c/o Eaton Corporation, 100 Erieview Plaza, Cleveland, Ohio 44114, U.S.A.

MILLER, Paul Lukens, A.B.; American investment banker; b. 6 Dec. 1919, Philadelphia, Pa.; s. of Henry C.L. and Elsie (Groff) Miller; m. Adele Olyphant 1950; one s. three d.; ed. William Penn Charter School, Philadelphia, and Princeton Univ.; First Boston Corpn. 1946-, Vice-Pres. 1955-64, Pres. 1964-78; Dir. Aluminum Co. of America, Cummins Engine Co., Inc., Trustee Seamen's Bank, Celanese Corpn., Ogilvy and Mather Int., Inc., Pullman Inc. *Address:* First Boston Corporation, 20 Exchange Place, New York, N.Y. 10005, U.S.A. *Telephone:* 212 825-2000.

MILLER, Terence George, M.A., F.G.S.; British geologist; b. 16 Jan. 1918, Cambridge; s. of George Frederick Miller and Marion Johnston; m. Inga Catriona Priestman 1944; one s. three d.; ed. Perse School and Jesus Coll., Cambridge; Army Service 1939-46; Univ. Demonstrator in Geology, Univ. of Cambridge 1948-53; Lecturer and Senior Lecturer in Geology, Univ. of Keele 1953-65; Prof. of Geography, Univ. of Reading 1965-67; Prin., Univ. Coll. of Rhodesia 1967-69; Dir. Polytechnic of N. London 1971-; Harkness Scholarship 1948; Territorial Decoration 1964. *Publications:* Geology & Scenery in Britain 1953; papers in Journal of Palaeontology, Palaeontology, Geological Magazine, Nature, etc. 1947-66. *Leisure interests:* walking, sailing, beachcombing. *Address:* Polytechnic of North London, Holloway, London, N.7., England. *Telephone:* 01-607 2789.

MILLER, William (see Miller, George William).

MILLET, Pierre Georges Louis, D. EN D.; French industrial officer; b. 11 April 1922, St. Maurice, Seine; ed. Ecole Nationale d'Administration; Ministry of Finance 1948-51, 1955-57; Deputy Dir. Int. Inst. of Patents 1952-54; Dir. of Contingency Fund and mem. Monetary Cttee., EEC 1958-60, Dir. of Econ. Policy and Devt. 1960-61; mem. Admin. Bd. 1960-61; Dir.-Gen. of Home Market, EEC 1961-65; Asst. Dir. of Foreign Econ. Relations, Ministry of Finance 1965-66; Deputy Vice-Pres. Union des industries chimiques 1966-71; Dir.-Gen. Service d'Exploitation Industrielle des Tabacs et des Allumettes (SEITA) 1972-78; Chevalier, Légion d'honneur. *Address:* 3 place du Panthéon, 75005 Paris, France.

MILLHISER, Ross Randolph; American business executive; m. Eleanor McGue; three s. one d.; ed. Yale Univ.; served U.S. Army 1942-45, with rank of Maj.; Asst. Foreman Philip Morris Inc. 1945, Marlboro Brand Man. 1954-57, Asst. Dir. of Marketing 1957, Vice-Pres. 1958, Asst. Chief of Operations 1959, Dir. of Marketing 1960, Dir. 1963, Exec. Vice-Pres. Marketing 1965, Pres. Philip Morris U.S.A. 1966-73, Pres. Philip Morris Inc. 1973-; Dir. First & Merchants Corpn.; Trustee, Virginia Foundation for Independent Colls., Independent Coll. Funds of America Inc.; mem. Exec. Cttee. Tobacco Inst. *Address:* Philip Morris Inc., 100 Park Avenue, New York, N.Y. 10017, U.S.A.

MILLIKEN, Frank Roscoe; American mining executive; b. 25 Jan. 1914; ed. Massachusetts Inst. of Technology; Chief Metallurgist, Gen. Eng. Co., Salt Lake City 1936-41; Asst. Man. Titanium Div. Nat. Lead Co. 1941-52; Vice-Pres. (Mining Operations), Kennecott Copper Corpn. 1952-58, Exec. Vice-Pres. 1958-61, Dir. 1958-; fmr. Pres., Chief Exec. Officer 1961-79, Chair. 1978-79; Dir. Braden Copper Co., Peabody Coal Co., Chase Brass and Copper Co., Quebec Iron and Titanium Corpn.; mem. American Mining Congress, Mining and Metallurgy Soc. of America, American Inst. of Mining, Metallurgy and Petroleum Engineers, etc. *Address:* Kennecott Copper Corporation, 161 East 42nd St., New York, N.Y. 10017, U.S.A.

MILLIKEN, William Grawn; American state governor; b. 26 March 1922, Traverse City, Mich.; s. of James T. Milliken and Hildegarde Grawn Milliken; m. Helen Wallbank Milliken 1945; one s. one d.; ed. Yale Univ.; Senator from Michigan 1961-64; Lieut.-Gov. of Mich. 1965-69, Gov. of Michigan 1969-; Chair. Republican Govs.' Assn. 1971-72, Midwestern Govs.' Conf. 1974, National Govs.' Assn. 1977-78; Hon. Dr. from Yale, Michigan and other univs.; Israeli Prime Minister's Medal 1975, Order of Merit of Duarte, Sanchez and Mella of the Dominican Republic 1977; Republican. *Leisure interests:* reading, tennis, swimming, skiing, hiking. *Address:* Office of the Governor, The Capitol, Lansing, Mich. 48933; 6103 Peninsula Drive, Traverse City, Mich. 49684, U.S.A. (Home).

MILLOT, Jacques, D. EN MED., D. ES SC.; French museum director; b. 9 July 1897; m. Henriette Alvin 1919; one d.; ed. Univ. de Paris à la Sorbonne and Muséum nat. d'Histoire naturelle; Prof., Faculty of Medicine, Univ. of Paris 1929-31; Prof. Inst. of Ethnology 1931; Prof. Sorbonne 1933, Hon. Prof. 1943; Prof. Muséum nat. d'Histoire naturelle 1943-67 (retd.); Dir. Scientific Research, Madagascar 1947-60; Pres. Acad. Malgache 1948-58; Pres. Scientific Assn. of Countries of Indian Ocean 1957; Dir. Musée de l'Homme, Paris 1960-67; mem. Acad. des Sciences d'Outre-Mer 1948-(Pres. 1963); mem. Acad. des Sciences (France) 1963-; Hon. Dr. (Witwatersrand and Perth); Officier, Légion d'honneur. *Publications:* Cicatrisation 1931, Les races humaines 1936, Traitée de zoologie—Classe des Arachnides 1949, Biologie des races humaines 1951, Le troisième coelacanthe 1954, Les crossoptérygiens actuels 1958, Anatomie de Latimeria Chalumnae I 1958, II 1965, III 1978, Archéologie malgache. *Leisure interest:* rare books. *Address:* 14 bis avenue Wilson, 75016 Paris, France.

MILLS, Donald Owen; Jamaican diplomatist; b. 23 July 1921, Mandeville; m.; four c.; ed. Jamaica, and London School of Econs.; entered civil service 1939; with the Treasury 1941-50; Cen. Bureau of Statistics 1950-55, Deputy Dir. 1955; with Jamaica Cen. Planning Unit 1957-68, Dir. 1962; Registrar Univ. of West Indies 1965-66; Perm. Sec. Ministry of Devt. of the Bahamas 1968-70; Alt. Exec. Dir. for Jamaica, Canada, Ireland, Barbados, IMF 1971-72; Perm. Rep. to UN Jan. 1973-. *Address:* Permanent Mission of Jamaica to United Nations, 866 Second Avenue, 15th Floor, 2 Dag Hammarskjöld Plaza, New York, N.Y. 10017, U.S.A.

MILLS, Frank, C.M.G.; British diplomatist; b. 3 Dec. 1923, Nuneaton; s. of Joseph Francis and Louisa Mills; m. Trilby Foster 1953; one s. two d.; ed. King Edward VI School, Nuneaton, Emmanuel Coll., Cambridge; served R.A.F.V.R. 1942-45; Commonwealth Relations Office 1948; service in Pakistan 1949-51, South Africa 1955-58, Malaysia 1962-64, Singapore 1964-66, India 1972-75; Private Sec. to Parl. Under-Sec. of State, Commonwealth Relations Office (CRO) 1952-53; Prin. Private Sec. to Sec. of State, CRO 1960-62; Foreign and Commonwealth Office 1966-71, Dir. of Communications May 1978-; High Commr. in Ghana 1975-78. *Leisure interests:* golf, sailing, music, history. *Address:* c/o Foreign and Commonwealth Office, King Charles Street, London, SW1A 2AH, England.

MILLS, Hayley Cathrine Rose Vivien; British actress; b. 18 April 1946, London; d. of Sir John Mills (*q.v.*) and Lady Mills (Mary Hayley Bell); m. Roy Boulting 1971 (divorced 1977); two s.; ed. Elmhurst Ballet School, Inst. Alpine Vidamanette; first film appearance in Tiger Bay 1959; on contract to Walt Disney; films include Pollyanna 1960, The Parent Trap 1961, Whistle Down the Wind 1961, Summer Magic 1962, In Search of the Castaways 1963, The Chalk Garden 1964, The Moonspinners 1965, The Truth about Spring 1965, Sky West and Crooked 1966, The Trouble with Angels 1966, The Family Way 1966, Pretty Polly 1967, Twisted Nerve 1968, Take a Girl Like You 1970, Forbush and the Penguins 1971, Endless Night 1972, Deadly Strangers 1975, The Diamond Hunters 1975, What Changed Charley Farthing? 1975, The Kingfisher Caper 1975; first stage appearance as Peter Pan 1969, appeared in The Wild Duck 1970, Trelawny 1972, A Touch of Spring 1975, My Fat

Friend 1978; Silver Bear Award, Berlin Film Festival 1958, British Acad. Award, Special Oscar (U.S.A.). *Leisure interests:* riding, reading, children, cooking, scuba-diving. *Address:* Friars Lawn, Norwood Green, Middx., England.

MILLS, Sir John, Kt., C.B.E.; British actor; b. 22 Feb. 1908, North Elmham, Suffolk; s. of Lewis Mills; m. Mary Hayley Bell 1941; one s. two d. (Hayley Mills, *q.v.*); ed. Norwich High School; debut in chorus of The Five O'Clock Girl 1929; appeared in repertory 1929-30; appeared ■ The Aunt in Charley's Aunt, London, 1930; has since appeared in numerous West End productions including the following plays by his wife Mary Hayley Bell: Men in Shadow 1942, Duet for Two Hands 1945, Angel 1947, The Uninvited Guest 1952; mem. Council Royal Acad. of Dramatic Art (RADA) 1965-; mem. Bd. Govs. of British Film Inst.; Chair. Stars Org. for Spastics 1975; Patron, Life mem. Variety Club; numerous theatre and film awards include Best Actor of the Year (for Of Mice and Men) 1939, Best Actor (for Great Expectations) 1947, Venice Film Festival Best Actor Award (for Tunes of Glory) 1960, San Sebastian Film Festival Best Actor Award (for The Family Way) 1968; Acad. Award (Oscar) for role in Ryan's Daughter 1971. Other stage appearances include: Noel Coward's Cavalcade 1931 and Words and Music 1932, Give me ■ Ring 1933, Jill Darling 1934, Red Night 1936, A Midsummer Night's Dream, She Stoops to Conquer, The Damascus Blade 1950, Figure of Fun 1951, The Uninvited Guest 1952, Ross (Broadway production) 1961, Powers of Persuasion 1963, Veterans 1972, At the End of the Day 1973, Good Companions (musical) 1974, Great Expectations (musical) 1975, Separate Tables 1977. *Film appearances include:* The Midshipmaid, Those Were the Days, Doctor's Orders, Royal Cavalcade, Tudor Rose, O.H.M.S., Goodbye Mr. Chips (1937), Four Dark Hours, Black Sheep of Whitehall, The Young Mr. Pitt, In Which We Serve, Waterloo Road, This Happy Breed, The Way to the Stars, Scott of the Antarctic, The History of Mr. Polly, The Rocking Horse Winner, Morning Departure, Hobson's Choice, The Colditz Story, Above Us The Waves, Escapade, War and Peace, The Baby and the Battleship, Round the World in 80 Days, Dunkirk, Ice Cold in Alex, Monty's Double, Summer of the Seventeenth Doll, Tiger Bay, Swiss Family Robinson, Tunes of Glory, The Singer Not the Song, Flame in the Streets, Tiara Tahiti, King Rat, The Chalk Garden, Operation Crossbow, The Wrong Box, The Family Way, Chuka, Cowboy in Africa, Adam's Woman, Lady Hamilton, Oh! What ■ Lovely War, Run Wild, Run Free, A Black Veil for Lisa, Ryan's Daughter, Dulcima, Young Winston, Oklahoma Crude, The Human Factor, Trial by Combat, The Big Sleep, Thirty-Nine Steps, Zulu Dawn, Dr. Strange, Love Boat, Quatermass (TV). *Leisure interests:* skiing, golf, painting. *Address:* c/o I.C.A.L., 22 Grafton Street, London, W.1., England.

MILLS, Wilbur Daigh; American politician; b. 24 May 1909, Kensett; s. of A.P. Mills and Abbie Lois Daigh Mills; m. Clarine Billingsley 1934; two d.; ed. Hendrix Coll. and Harvard Law School; admitted to Ark. Bar 1933, private legal practice, Searcy; County and Probate Judge, White County 1934-38; Cashier, Bank of Kensett 1934-35; mem. U.S. House of Reps. for Arkansas 1939-77, Chair. Ways and Means Cttee. 1958-74; Tax counsel, Shea, Gould, Climenko and Casey, New York 1977-; Democrat. *Address:* Shea, Gould, Climenko and Casey, 330 Madison Avenue, New York, N.Y. 10017, U.S.A. (Office).

MILLSAPS, Knox, PH.D.; American engineer; b. 10 Sept. 1921, Birmingham, Ala.; s. of Knox Taylor Millsaps and Millie May Joyce; m. Lorraine Marie Hartle 1956; one s. three d.; ed. Auburn Univ. and Calif. Inst. of Technology; Assoc. Prof. Ohio State Univ. 1947-48; Physicist Wright Air Devt. Center 1948-49, Mathematician 1950-51, Chief Mathematician 1952-55; Prof. of Physics, Auburn Univ. 1949-50, 1951-52; Prof. of Mechanical Eng., M.I.T. 1955-56; Chief Scientist, Air Force Missile Devt. Center, U.S.A.F. 1956-60; Exec. Dir. Air Force Office of Scientific Research, U.S.A.F. 1961-62; Research Prof. of Aerospace Eng., Univ. of Florida 1963-68; Head, Prof. Mechanical Eng., Colorado State Univ. 1968-73; Chair. Eng. Science, Mechanics and Aerospace Eng. Dept., Univ. of Florida 1973-. *Leisure interests:* gardening, crinums, camellias. *Address:* P.O. Box 13857, Gainesville, Fla. 32604, U.S.A. *Telephone:* 904-372-3018.

MILNE, Denys Gordon ('Tiny'), M.A.; British petroleum industry executive; b. 12 Jan. 1926, Shetlands; s. of Dr. George Gordon Milne and Margaret Campbell; m. Pamela Mary Senior 1951; two s. one d.; ed. Epsom Coll., Brasenose Coll., Oxford; Colonial Admin. Service, Northern Nigeria 1951-54; joined BP Group 1955, Regional Man., Kano, N. Nigeria 1955, then Sales Man., Ghana, then Gen. Man., Nigeria; returned to London 1965; Regional Co-ordinator, U.K. and Ireland 1966-71, also Dir. Shell-Mex and BP, Chair. Lubricants Producers Ltd., Dir. Alexander Duckham & Co. Ltd. 1966-71; Shareholders' Rep. in Southern Africa 1971; First Chair. BP Southern Africa Ltd. 1975; returned to London as Deputy Man. Dir. BP Oil Ltd. 1975; Chief Exec. and Man. Dir. BP Oil Ltd. Feb. 1976-; Pres. Inst. of Petroleum June 1977-; Vice-Pres. U.K. Petroleum Industry Assn. Jan. 1978-. *Leisure interests:* gardening, sailing. *Address:* Westbury, Old Lane, St. John's, Crowborough, Sussex, England. *Telephone:* Crowborough 2634.

MILNE-WATSON, Sir Michael, Kt., C.B.E.; British company executive; b. 16 Feb. 1910, London; s. of Sir David Milne-Watson, 1st Bart., and the late Lady Olga (Herbert) Milne-Watson; m. Mary Lisette Bagnall 1940; one s.; ed. Eton and Balliol Coll., Oxford; Gas Light and Coke Co. 1933-49, Gov. 1946-49; Chair. North Thames Gas Bd. 1949-64; Chair. Richard Thomas & Baldwins Ltd. 1964-67; mem. Org. Cttee. Nat. Steel Corpn. 1966-67, Deputy Chair. (Admin.) Nat. (now British) Steel Corpn. 1967-69; Chair. William Press Group of Companies 1969-74; Gov. British United Provident Assn. (BUPA), Chair 1976-; Dir. Industrial and Commercial Finance Corpn. Ltd., Commercial Union Assurance Co. Ltd., Finance for Industry Ltd., Marine Oil Industry Repairs Ltd., Salvesen Offshore Holdings Ltd.; mem. Court of Govs., Admin. Staff Coll., Henley-on-Thames; Pres. of Council, Reading Univ., Soc. of British Gas Industries Guild 1970-71, Pipeline Industries Guild 1971-72; mem. R.N.V.R. 1943-45. *Address:* British United Provident Association Ltd., Provident House, Essex Street, London, WC2R 3AX; 39 Cadogan Place, London, SW1X 9RX, England (Home). *Telephone:* 01-353 9451 (Office); 01-235 3467 (Home).

MILNER, Aaron Michael; Zambian politician; b. 31 May 1932; ed. Embakwe Mission, Plumtree, Rhodesia; Minister of State for the Cabinet and Civil Service; Minister of State for Presidential Affairs 1967-70; Minister of Transport, Power and Works Jan.-Nov. 1970; Sec.-Gen. to Govt. 1970-73, also Minister of Provincial and Local Govt. and Culture 1971-73; Minister of Defence Aug.-Dec. 1973, of Home Affairs 1973-77. *Address:* c/o Ministry of Home Affairs, Lusaka, Zambia.

MILNES, Sherill, B.MUS.; American opera singer; b. 10 Jan. 1935, Hinsdale, Ill.; s. of James Knowlton and Thelma Roe Milnes; m. Nancy Stokes 1969; two s. one d.; ed. Drake Univ., Northwestern Univ.; studies with Boris Goldovsky, Rosa Ponselle, Andrew White, Hermanes Baer; with Goldovsky Opera Co. 1960-65, New York City Opera Co. 1964-67, debut with Metropolitan Opera, New York 1965, leading baritone 1965-; has performed with all American city opera cos. and major American orchestras 1962-73; performed in Don Giovanni, Vesperi Siciliani and most standard Italian repertory baritone roles, Metropolitan Opera and at San Francisco Opera, Hamburg Opera, Frankfurt Opera, La Scala, Milan, Covent Garden, London, Teatro Colón, Buenos Aires, Vienna State Opera, Paris Opera and Chicago Lyric Opera 1973-75; recordings for RCA Victor, London Decca, EMI Angel, Phillips, Deutsche Grammophon, 27 albums 1967-; most recorded American opera singer 1978; Chair. of Board Affiliate Artists Inc.; two hon. degrees. *Leisure interests:* table tennis, swimming, horse riding. *Address:* c/o Herbert Barrett, 1860 Broadway, New York, N.Y. 10022, U.S.A.

MILWARD, Sir Anthony (Horace), Kt., C.B.E., O.B.E., B.A.; British airline executive; b. 2 March 1905, Redditch; s. of Henry T. Milward and Elsie T. Newton; m. Frieda von der Becke 1931; one s. one d.; ed. Rugby School and Clare Coll., Cambridge; employed in the textile industry 1926-40; with Fleet Air Arm 1940-45; with British Overseas Airways Corpn. Jan.-April 1946; with British European Airways 1946-70, Chief Exec. 1956-, Chair. 1964-70; mem. Air Registration Bd. 1964-70, Bd. of British Overseas Airways Corpn. 1964-70; Chair. London Tourist Bd. 1971-76, Pres. 1976-. *Leisure interests:* walking, fishing, shooting, swimming. *Address:* Dene House, Lower Slaughter, Glos., England.

MIMA, Yasuichi, B.COM.; Japanese mining executive; b. 3 Aug. 1903; ed. Tokyo Commercial Univ.; Kuhara Mining Co. (now Nippon Mining Co.) 1928-, Dir. Nippon Mining Co. Ltd. 1946-, Man. Dir. 1947-57, Pres. 1957, Chair. of Bd. until 1974; Pres. Toho Titanium Co. 1959, now Chair.; Dir. Teikoku Oil Co. Ltd. 1957-, Japan Petroleum Fed. 1957-; Governing Dir., Japan Fed. of Employers' Asscns. 1959-, Exec. Dir., Japan Fed. of Econ. Orgs. 1959-, Dir. Japan Management Assn. 1959-; fmr. Pres. Japan Mining Industry Assn.; Order of Merit, Chile 1962. *Address:* c/o Keidanren, 9-4 Otemachi l-chome, Chiyoda-ku, Tokyo, Japan.

MINAH, Francis Misheck, LL.M.; Sierra Leonean lawyer and politician; b. 19 Aug. 1929, Pujemun; m. Gladys Emuchay; four c.; ed. Methodist Boys' High School, Freetown, King's Coll. (London Univ.), Grays Inn, London; Pres. Sierra Leone Students' Union of Great Britain and Ireland 1960-62; mem. House of Reps. 1967-; Minister of Trade and Industry 1973-75, of Foreign Affairs 1975-77, of Justice 1977-78; Attorney-Gen. 1978; Second Vice-Pres.

1978-; UNESCO Fellowship to study community devt. in India and Liberia; Barrister-at-law. *Address:* Office of the Second Vice-President, Freetown (Office); 19 Juba Hill, Juba, Sierra Leone (Home).

MINAI, Ahmad, PH.D.; Iranian diplomatist and economist; b. 10 Sept. 1921; s. of Abdolhossein and Gohartaj Minai; ed. Teheran Univ., Univs. of Glasgow and Oxford, American Univ., Washington, D.C.; Lecturer London Univ. 1949-50; joined Foreign Service 1950; Third Sec., Washington, D.C. 1953; First. Sec. Ankara 1960; Special Aide to Prime Minister with rank of Dir.-Gen., mem. High Econ. Council 1961-62; Econ. Counsellor, Washington, D.C. 1963; Vice-Gov. Agricultural Bank of Iran 1965-66; Dir. Dept. of Econ. Affairs, Ministry of Foreign Affairs 1966-67; Minister-Counsellor Islamabad 1967; Consul-Gen., Karachi 1969; Minister-Counsellor, London 1970; Dir. Fourth Political Dept., Ministry of Foreign Affairs 1973; Amb. 1974; Sec.-Gen. Regional Co-operation for Devt. 1974-78. *Publications:* several articles on economic topics. *Leisure interests:* mountaineering, photography, music.

MINIĆ, Miloš; Yugoslav lawyer and politician; b. 1914, Čačak, Serbia; s. of Dragomir and Jovanka Minić; m. Milka Minić 1936; two d.; mem. League of Communist Youth 1935, League of Communists of Yugoslavia 1936; one of the organizers of Nat. Liberation War, Serbia 1941; Public Prosecutor Serbia 1945-50; Minister in Govt. of Serbia 1950-53; Pres. People's Cttee. of Belgrade 1955-57; Pres. Exec. Council of Serbia 1957-62; Vice-Pres. Fed. Exec. Council 1963-65; Pres. Assembly of Serbia 1967-69; Vice-Pres. Fed. Ass. 1969-72; Vice-Pres. Fed. Exec. Council and Fed. Sec. for Foreign Affairs 1972-78; mem. Council of the Federation; mem. Cen. Cttee. of League of Communists of Yugoslavia 1952-, mem. Presidium of Cen. Cttee. June 1978-; mem. Standing Conference of League of Communists of Yugoslavia; 1941 Partisan Memorial Medal and other decorations. *Publications:* several legal and political studies and articles. *Address:* Savez Komunista Jugoslavije, Bulevar Lenjina 6, Novi Beograd, Yugoslavia.

MININ, Viktor Ivanovich; Soviet diplomatist; b. 4 Jan. 1926, Moscow; ed. Moscow State Inst. of Int. Relations; Diplomatic Service 1948-; with Balkan Countries Dept., Ministry of Foreign Affairs 1948-52; Second Sec. Soviet Embassy, Albania 1952-55; Ministry of Foreign Affairs 1955-57; Sec., First Sec. Soviet Embassy, Canada 1957-61; Counsellor, S.E. Asia Dept. Ministry of Foreign Affairs 1963-65; Counsellor, Soviet Embassy, Turkey 1965-68; Amb. to Kingdom of Laos 1968-72; Head of Middle East Dept., U.S.S.R. Ministry of Foreign Affairs 1973-; Amb. to Guinea April 1978-; Order of Badge of Honour. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya Ploshchad, Moscow, U.S.S.R.

MINNELLI, Liza; American actress and singer; b. 12 March 1946; d. of Vincente Minnelli (*q.v.*) and the late Judy Garland; m. 1st Peter Allen 1967 (divorced 1970), 2nd Jack Haley, Jr. 1974; early appearances off-Broadway New York, London Palladium 1964, Broadway musical Flora, the Red Menace 1965, The Act 1977; films include: Charlie Bubbles 1968, The Sterile Cuckoo 1969, Tell Me That You Love Me Junie Moon 1970, Cabaret (Acad. Award for Best Actress) 1972, Lucky Lady 1975, A Matter of Time 1976, New York, New York 1976, Silent Movie 1976. *Address:* c/o Creative Management Associates, 600 Madison Avenue, New York, N.Y. 10022, U.S.A.

MINNELLI, Vincente; American film director; b. 28 Feb. 1913, Chicago, Ill.; m. 1st Judy Garland 1945 (divorced 1952), one d. (Liza Minnelli, *q.v.*); m. 2nd Georgette Magnani 1954 (divorced 1958), one d.; m. 3rd Denise Gigante 1960 (divorced 1971); child actor, Minnelli Brothers Dramatic Tent Show; Asst. stage presentations, Balban & Katz, then New York Paramount Theatre; stage DuBarry, New York; Art Dir., Radio City Music Hall; screen debut 1943; Acad. Award for best direction in Gigi. *Stage productions:* At Home Abroad, Ziegfeld Follies, The Show is On—Hooray for What!, Very Warm for May; *Films:* Cabin in the Sky, Meet Me in St. Louis, Madame Bovary, Father of the Bride, An American in Paris, Bad and the Beautiful, The Bandwagon, Long Long Trailer, Brigadoon, Kismet, Lust for Life, Tea and Sympathy, Gigi, Reluctant Debutante, Some Came Running, Home From the Hills, Bells are Ringing, Four Horsemen of the Apocalypse, The Courtship of Eddie's Father, 1963, Goodbye Charlie, Sandpiper, On a Clear Day You Can See Forever, A Matter of Time 1976. *Publication:* I Remember It Well (autobiog.). *Address:* 812 North Crescent Drive, Beverly Hills, Calif. 90210, U.S.A.

MINNIS, C.M., D.SC., C.ENG., M.I.E.E., F.INST.P.; British physicist; b. 13 Sept. 1912, Saintfield, Co. Down; s. of Frank Ward Minnis and Mary Rea; ed. Methodist Coll., Belfast and Queen's Univ., Belfast; worked on devt. of radar at Air Ministry establishments 1936-42; commissioned in R.A.F. 1942-44; Scientific Officer, Air Ministry Experimental Establishment, Amesbury 1945-46; Prin. Scientific Officer, Radio and Space Research Station, Slough 1947-62; Scientific Sec. Special Cttee. for Int. Years of the Quiet Sun 1962-67; Sec. Comité Int. de Géophysique 1963-67; Sec.-Gen. Int. Union of Radio Science 1968-. *Publications:* Numerous papers on ionospheric physics and related subjects in Journal of Atmospheric and Terrestrial Physics. *Leisure interest:* music. *Address:* International Union of Radio Science, 81 rue de Nieuwenhove, B-1180 Brussels, Belgium. *Telephone:* 343-76-78.

MINOBE, Ryokichi, DR.ECON.; Japanese prefectural governor; b. 5 Feb. 1904; ed. Tokyo Imperial Univ.; Prof., Hosei Univ. 1934-39, Tokyo Univ. of Educ. 1949-67; on Editorial Staff, Mainichi Shimbun 1945-46; First Grade Official of the Cabinet 1946; Chief of Statistic Datum Div., Administrative Man. Agency 1952, Dir. Statistic Datum Bureau 1957-59; Gov. of Tokyo 1967-79. *Address:* Governor's Residence, Tokyo, Japan.

MINOTIS, Alexis; Greek theatre producer and actor; b. 1906, Canea, Crete; m. Katina Paxinou (deceased); acting on Greek stage since 1925; mem. Nat. Theatre of Greece 1930-; Artistic Dir. of Nat. Theatre to 1967, Gen. Dir. 1974-(80); has played principal roles in and produced most classical plays from Aeschylus to Pirandello; has made many tours outside Greece with Nat. Theatre; produced Cherubini's opera Medea, with Callas in leading role, for Dallas (Texas) Civic Opera, at Covent Garden, London and at La Scala, Milan; Ancient Greek Drama Festivals at Epidaurus and Athens 1955-; produced Oedipus Rex, Hecuba Medea 1955-58, Oedipus at Colonus, Antigone 1962 at Théâtre des Nations, Paris; produced Friedrich Dürrenmatt's Visit of the Elderly Woman, Royal Theatre, Greece 1961; played Oedipus in Oedipus Rex, London 1966; formed own theatre co. in Athens with Katina Paxinou 1967, and since produced works by O'Neil, O'Casey, Strindberg, Lorca, Brecht, Ibsen, Büchner and Shakespeare, played Shylock in The Merchant of Venice 1971-72; produced Danton's Death (Büchner), Nat. Theatre of Greece 1974; produced and acted in Oedipus at Colonus (Sophocles), Epidaurus Festival 1975, 1976, toured with the play to Moscow, Leningrad, New York and Boston 1976; produced and acted in John Gabriel Borkman (Ibsen), Nat. Theatre of Greece 1976, End Game (Beckett), Philoctetes (Sophocles); directed and acted in King Lear 1977; several Greek and foreign decorations. *Leisure interest:* writing articles, books, etc. *Address:* Lykiou 13, Athens, Greece. *Telephone:* 715687.

MINOW, Newton N., J.D.; American lawyer; b. 17 Jan. 1926, Milwaukee, Wis.; s. of Jay A. and Doris (Stein) Minow; m. Josephine Baskin 1949; three d.; ed. Northwestern Univ. Law Clerk to Supreme Court Chief Justice Vinson 1951; Admin. Asst. to Gov. of Illinois (Adlai Stevenson) 1952-53; served Stevenson's law firm 1955-57, Partner 1957-61; Chair. Fed. Communications Comm. 1961-63; Exec. Vice-Pres. Gen. Counsel Encyclopaedia Britannica, Chicago 1963-65; mem. Bd. of Trustees, Rand Corpn. 1965-75, 1976-, Chair. 1970-72; Partner, Sidley & Austin (fmrly. Leibman, Williams, Bennett, Baird & Minow) 1965-; Hon. Chair. and Dir. Chicago Educational TV Assn; Dir. Aetna Casualty and Surety Co. of Ill., Aetna Life Insurance Co. of Ill.; Professorial Lecturer, Northwestern Univ., Medill School of Journalism; mem. Int. Advisory Bd., Pan American World Airways; Dir. Adler Planetarium, Field Enterprises Inc.; Trustee Northwestern Univ., Chicago Orchestral Assn., MAYO Foundation; Chair. Arthur Andersen & Co. Public Review Bd. 1974-; Chair. Public Broadcasting Service; Hon. LL.D. (Northwestern Univ.) 1965, (Wisconsin) 1963, (Brandeis) 1963, (Columbia Coll.) 1972; Democrat. *Publications:* Presidential Television (co-author), Equal Time, Tomorrow's American (co-author) 1976. *Address:* Sidley & Austin, 1 First National Plaza, Chicago, Ill.; 375 Palos Road, Glencoe, Ill., U.S.A. (Home). *Telephone:* 312-329-5555 (Office).

MINTAREDJA, Hadji Mohamad Sjafa'at, LL.M.; Indonesian lawyer; b. 17 Feb. 1921, Bogor, Java; s. of Mohamad Sjafe'i Mintaredja and Halimah Emon; m. Siti Romlah Abdulkadir 1945; four s. three d.; ed. Gadjahmada Univ., Leiden Univ., Netherlands, and Univ. of Indonesia, Jakarta; mem. Bd. of many nat. youth movements 1936-44; founder Himpunan Mahasiswa Islam; Judge, Court in Bandung 1944-46; Chief, Legal Dept., Foreign Exchange Control 1950-55; in private business (import, export, banking and industry) 1957-65; Pres. and Dir. of two state construction companies 1966-68; mem. of Bd. Muhammadiyah 1965-71; Chair. Partai Muslimin Indonesia 1970; Minister of State 1968-71; Minister of Social Affairs 1971-78; Gen. Exec. Chair. Partai Persatuan Pembangunan 1973-78. *Publications:* Moslem Society and Politics in Indonesia 1971; many articles in Indonesian magazines and journals. *Leisure interests:* sports, reading, driving cars. *Address:* Jalan K. H. A. Dahlan 21, Kebajoran Baru, Jakarta, Indonesia. *Telephone:* 71216 (Home).

MINTOFF, Dominic, M.A.; Maltese politician; b. 6 Aug. 1916, Cospicua; s. of Lawrence Mintoff; m. Moyra de Vere Bentinck 1947; two d.; ed. Univs. of Malta and Oxford; civil engineer in Great Britain 1941-43; practised in Malta as architect 1943-; rejoined and helped reorganize Maltese Labour Party 1944; elected to Council of Govt. and Exec. Council 1945; mem. Legislative Assembly 1947-; Deputy Leader of Labour Party, Deputy Prime Minister and Minister for Works and Reconstruction 1947-49; resigned Ministry, Leader of Labour Party 1949-; Prime Minister and Minister of Finance 1955-58; Leader of the Opposition 1962-71; Prime Minister and Minister of Foreign and Commonwealth Affairs June 1971-, of the Interior 1977-. *Leisure interests:* tennis, swimming, water skiing, bocci, horse riding. *Address:* "The Olives", Tarxien, Malta.

MINTS, Isaak Israilevich; Soviet historian; b. 3 Feb. 1896, Krinichki, Ukraine; ed. Inst. of Red Professors, Moscow; Red Army Political Div. 1918-20; Prof. of History, Moscow Literary Inst. and Moscow Univ. 1932-49, Moscow Pedagogical Inst. 1950-72; mem. U.S.S.R. Acad. of Sciences for solution of problems in History of Great October Socialist Revolution 1967-73; Chair. Scientific Council; mem. CPSU 1917-, Party School of Cen. Cttee. of CPSU; State Prizes 1943, 1946, 1974; Lenin Prize; three Orders of Merit. *Publications:* works on history of October Revolution, Civil War and foreign military intervention. *Address:* Institute of History, U.S.S.R. Academy of Sciences, Ulitsa D. Ulyanova 19, Moscow, U.S.S.R.

MIRÓ, Joan; Spanish artist; b. 20 April 1893, Barcelona; s. of Michel Miró Adzirias and Dolores Ferra; m. Pilar Juncosa 1929; one d.; ed. Barcelona Acad. of Fine Art; apart from painting, has executed ceramics, sculptures, engravings and lithographs; lives at Palma, Majorca; Guggenheim Award for ceramic mural "Night and Day", UNESCO Building, Paris 1958; Fondation Maeght Bldg., St.-Paul-de-Vence, France; exhbns. in New York, Paris, Zürich, London (Tate Gallery) 1964, Tokyo and Kyoto 1966, Madrid 1978; retrospective exhbn. Barcelona 1968, Madrid 1978; Commdr. Légion d'honneur 1974. *Address:* c/o Galerie Maeght, 13 rue de Téhéran, Paris 8e, France.

MIRONOVA, Zoya Vasiliyevna; Soviet chemical engineer and diplomatist; b. 26 Feb. 1912, Yadrin, Chuvash; ed. Moscow Inst. of Chemical Technology. Deputy Mayor of Moscow 1951-59; then Deputy Perm. Soviet Rep. to UN and Soviet Rep. on UN Cttee. on Women's Rights; then at Ministry of Foreign Affairs, Moscow; Perm. Rep. of U.S.S.R. at UN European Office and other int. orgs. in Geneva 1966-; rank of Amb.; State Prize (for work on producing a rare metal and its compounds) 1950; Red Banner of Labour (twice), Badge of Honour, Order of the October Revolution, etc. *Address:* 15 avenue de la Paix, 1202 Geneva, Switzerland.

MIROSHNICHENKO, Boris Panteleimonovich, DR. ECON. SC.; Soviet scientist and diplomatist; b. 30 May 1911, Kharkov; ed. Kharkov Planning Inst.; scientific work in higher educational Insts. and work in State Offices until 1954; Counsellor, Soviet Embassy, G.D.R. 1954-57; Counsellor, Ministry of Foreign Affairs, 1957-65; Rector, Moscow Inst. of Int. Relations; mem. of Coll. Ministry of Foreign Affairs, Amb. to Canada 1968-73, to Kenya 1973-; Order of Red Banner of Labour, Order of Red Star, Order of Badge of Honour and medals. *Address:* U.S.S.R. Embassy, Lenana Road, P.O. Box 30049, Nairobi, Kenya.

MISCHNICK, Wolfgang; German politician; b. 29 Sept. 1921; ed. High School, Dresden; co-founder, Liberal Democratic Party, Dresden 1945; town official, Dresden 1946-48; mem. Cen. Cttee. of Liberal Democratic Party, Soviet Zone 1946-48; fled to Fed. Germany 1948; mem. Provincial Ass., Hesse, 1954-57, Parl. Leader of FDP; Fed. Chair. FDP Youth Movement and Ed. Stimmen der jungen Generation 1954-57; mem. Bundestag 1957-; Deputy Chair. FDP, Hesse 1957-67, Chair. 1967-77; Fed. Minister for Refugees 1961-63; Deputy Chair. FDP 1964-, FDP Chair. in Bundestag 1968-. *Address:* Kullmanstrasse 16, 6000 Frankfurt ■■ Main, Federal Republic of Germany.

MISHIN, Vasiliy Pavlovich; Soviet engineer; b. 18 Jan. 1917, Orekhovo-Zuevo, Moscow Region; ed. Moscow Aviation Inst.; specialist in applied mechanics; Prof. Moscow Aviation Inst. 1959-; Deputy of Supreme Soviet R.S.F.S.R. 1966-; mem. CPSU 1943-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-; Hero of Socialist Labour 1956; Order of Lenin (three), Order of October Revolution and other decorations. *Publications:* numerous articles in the field of applied mathematics. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

MISSOFFE, François; French industrialist and politician; b. 13 Oct. 1919; ed. Prytanée militaire de La Flèche; army service 1940-46; UNR (Union for the New Republic); Deputy to Nat. Ass. 1958-61, 1962, 1967, 1968-; Gen. Treas. UNR 1959; Sec. of State for Domestic Trade April-Oct. 1962, Minister of Repatriation 1962-64; Amb. to Japan 1964-66; Minister for Youth and Sports 1966-68; Special Envoy of the French Govt. in Asiatic Countries 1973-; Officier, Légion d'honneur; Croix de guerre; Médaille de la Résistance. *Address:* 38 rue Boileau, 75016, Paris, France (Home).

MISTLER, Jean; French writer; b. 1 Sept. 1897; ed. Lycées de Carcassonne and Henri IV, Paris and Ecole normale supérieure; Cultural Attaché, Budapest, and Priv. Dozent Univ. of Budapest; Head of Section, Ministry of Foreign Affairs 1926; mem. Chamber of Deputies 1928; Under-Sec. of State for Fine Arts 1932; Minister of Posts, Telecommunications and Commerce 1934; Pres. of Comm. for Foreign Affairs 1936-40; Dir.-Gen. Maison du livre française 1947-60; Dir. Dept. of Gen. Literature, Librairie Hachette 1964-68; Dir. Soc. Fulmen, Cie. Européenne d'accumulateurs, Cie. électro-financière, Cie. Industrielles des Téléphones; mem. Acad. Française 1966-, Perm. Sec. 1973-, Vice-Pres. Inst. de France 1973; mem. Haut Comité de la langue française 1975-. *Publications include:* Châteaux en Bavière, La symphonie inachevée, Hoffmann le fantastique, A Bayreuth avec Richard Wagner, Epinal et l'imagerie populaire, Le 14 Juillet, Le bout du monde, Les orgues de Saint Sauveur, Gaspard Hauser, La route des étangs, Le naufrage du Monte-Christo, L'ami des pauvres 1974, Gare de l'est 1975, Bon poids 1976, and numerous articles for L'Aurore 1954-, and Revue de Paris 1928-40. *Address:* L'Académie Française, 23 quai de Conti, 75006 Paris; 1 rue de Seine, 75006 Paris, France.

MITCHELL, Broadus, B.A., PH.D., L.H.D.; American economist; b. 27 Dec. 1892, Georgetown, Ky.; s. of Samuel Chiles Mitchell and Alice Virginia Broadus; m. Louise Pearson Blodget 1936; two s. two d.; ed. Johns Hopkins Univ.; reporter 1913-18; successively Instructor, Assoc. and Assoc. Prof. of Political Econ. Johns Hopkins Univ. 1919-39; Visiting Prof. Occidental Coll. 1939-41; Candidate of Socialist Party for Governorship of Maryland 1934; Consultant to Dir. N.R.A. Div. of Review 1935-36; twice mem. Exec. Cttee. American Econ. Assn.; Act. Dir of Research Int. Ladies' Garment Workers' Union 1943-47; Lecturer in Econs., Rutgers Univ. 1947-49, Prof. 1949-; Visiting Prof. Hofstra Univ. 1958-67; Pres. Metropolitan Econ. Assn. 1950-51. *Publications:* The Rise of Cotton Mills in the South 1921, General Economics 1937, Depression Decade 1947, American Adventure 1949, Alexander Hamilton (2 vols.) 1957, 1962, Great Economists in their Times 1966, Postscripts to Economic History 1967, Alexander Hamilton, the Revolutionary Years 1970, The Road to Yorktown 1971, The Price of Independence 1974, Alexander Hamilton, A Concise Biography 1976; in co-operation: The Industrial Revolution in the South 1930, Practical Problems in Economics 1938, American Economic History 1947, Economics, Experience and Analysis 1950, A Biography of the Constitution of the U.S. 1964. *Address:* 49 Barrow Street, New York, N.Y. 10014, U.S.A. *Telephone:* CHelsea 2-8436.

MITCHELL, Sir Derek, K.C.B., C.V.O.; British administrator and fmr. civil servant; b. 5 March 1922, Wimbledon, Surrey; s. of the late Sidney Mitchell and Gladys Mitchell; m. Miriam Jackson 1944; one s. two d.; ed. St. Paul's School, London and Christ Church, Oxford; served, Royal Armoured Corps and H.Q. London District 1942-45; served in H.M. Treasury 1947-63, Principal Private Sec. to Chancellor of the Exchequer 1962-63; Principal Private Sec. to Prime Minister 1964-66; Deputy Under-Sec. of State, Dept. of Econ. Affairs 1966-67, Ministry of Agric., Fisheries and Food 1967-69; Econ. Minister, British Embassy, Washington and Exec. Dir. IBRD, IMF, etc. 1969-72; Second Perm. Sec. (Overseas Finance) H.M. Treasury 1973-77; Sr. Adviser, Kuhn Loeb Lehman Brothers Int.; Dir. Guinness Mahon 1977-78; mem. Nat. Theatre Bd. Nov. 1977-, Council of Univ. Coll., London Jan. 1978-, Port of London Authority Jan. 1979-; Trustee Nuffield Provincial Hosps. Trust. *Leisure interests:* opera, concerts, theatre, travelling. *Address:* c/o Kuhn Loeb Lehman Brothers International, 99 Bishopsgate, London EC2M 3HD. *Telephone:* 01-638 6911.

MITCHELL, Donald George; American industrialist; b. 26 April 1905; ed. Univ. of Cincinnati and Univ. of Florida; Chief, Marketing Div. American Can Co. 1933-37; Gen. Sales Man., Marshall Field and Co. 1937-39; Vice-Pres. Pepsi-Cola Co. 1939-42; Vice-Pres. (Sales) Sylvania Electric Products Inc. 1942-46, Exec. Vice-Pres. 1946, Pres. 1946-53, Chair. 1953-62; Pres. Gen. Telephone and Electronics Corpn. 1959-61, Vice-Chair. 1961-62; Chair. Gen. Time Corpn. 1964-; Chair. American Man. Assn.; Outstanding Civilian Service Award, U.S. Dept. of the Army 1961; official of welfare orgs. *Address:* 206 Oakridge Avenue, Summit, New Jersey, U.S.A.

MITCHELL, George Wilder, B.A.; American economist; b. 23 Feb. 1904, Richland Center, Wis.; s. of George Ray and Minnie

(German) Mitchell; m. 1st Grace Marion Muir 1927, 2nd Mary Toft Petty 1964; one s. three d.; ed. Wisconsin, Iowa and Chicago Univs.; Research Asst. Univs. of Wis., Iowa and Chicago 1925-33; Dir. of Research, Ill. Tax Comm. 1933-39, 1941-43, mem. of Comm. 1939-40; Asst. to Dir., Dept. of Revenue, State of Ill. 1943; Dir. Dept. of Finance, State of Ill. 1949-51; Tax Economist, Fed. Reserve Bank of Chicago 1944-48, Vice-Pres. 1951-61; mem. Bd. of Govs. of the Fed. Reserve System 1961-73, Vice-Chair. Bd. of Govs. 1973-76; Fed. Reserve mem. Nat. Comm. on Electronic Fund Transfers 1976-77; mem. Nat. Cttee. on Govt. Finance 1961-65. *Publications:* Survey of Local Finance in Illinois 1939-40, Assessment of Real Estate in Iowa and other Midwestern States 1931. *Address:* c/o Federal Reserve System, Washington, D.C. 20551, U.S.A.

MITCHELL, Sir Godfrey Way, Kt.; British company director; b. 31 Oct. 1891, London; s. of Christopher and Margaret (Way) Mitchell; m. late Doreen Lilian Mitchell 1929; two d.; ed. Aske's (Haberdashers' School); with Rowe & Mitchell 1908-14; served in Royal Engineers, France, First World War 1914-18; Man. Dir. George Wimpey & Co. Ltd. 1919, Chair. 1930-73, now Exec. Dir.; Chair. Mono Containers Ltd. 1947-61; mem. Restrictive Practices Court 1957-63. *Address:* George Wimpey & Co. Ltd., Hammersmith Grove, London, W.6; Copper Beech, 2 Curzon Avenue, Beaconsfield, Bucks., HP9 2NN, England (Home). *Telephone:* 01-748 2000 (Office); 0494-6 3128 (Home).

MITCHELL, John Newton; American government official; b. 15 Sept. 1913, Detroit, Mich.; m. Martha Beall; three c.; ed. Fordham Univ. and Columbia Univ. Law School; admitted to Bar 1938; served in U.S. Navy in Pacific, Second World War; partner in law firm Nixon, Mudge, Rose, Guthrie, Alexander and Mitchell; Attorney-Gen. of U.S.A. 1969-72; Election Campaign Man. for Richard Nixon Feb.-July 1972; indicted by Supreme Court May 1973; sentenced to 2½-8 years imprisonment Feb. 1975; to serve prison sentence (in Allenwood Prison, Penn.) June 1977, released Jan. 1979. *Address:* c/o Simon and Schuster Inc., 630 Fifth Avenue, New York, N.Y. 10020, U.S.A.

MITCHELL, Joseph Stanley, C.B.E., M.D., PH.D., F.R.S., F.R.C.P., F.R.C.R.; retd. British radiotherapist; b. 22 July 1909, Birmingham; s. of Joseph Brown Mitchell and Ethel Maud Mary Arnold; m. Dr. Lilian Mary Buxton 1934; one s. one d.; ed. Univ. of Birmingham, and St. John's Coll., Cambridge; House Physician, Gen. Hosp., Birmingham 1934; Fellow St. John's Coll., Cambridge 1936-; Radiotherapist, Emergency Medical Service 1939; Medical Officer in charge, later Dir., Radiotherapeutic Centre, Addenbrooke's Hosp., Cambridge 1943-76; in charge of medical investigations, Montreal Lab., Nat. Research Council of Canada 1944; Prof. of Radiotherapeutics, Univ. of Cambridge 1946-57, 1975-76, Regius Prof. of Physic 1957-75, Emeritus Regius Prof. 1975-; full-time research, Radiotherapeutic Centre, Cambridge 1975-; Leverhulme Emeritus Fellow 1976-77; Pres. English Section Anglo-German Medical Soc. 1959-68; Consultant, Radiation Medicine, WHO, Geneva; Hon. Consultant, Atomic Energy Authority; Hon. mem. German Roentgen Soc. 1967; Foreign Fellow Indian Nat. Science Acad. 1974; Hon. D.Sc.; Pirogoff Medal 1967. *Publications:* Studies in Radiotherapeutics 1960, The Cell Nucleus 1960, Treatment of Cancer 1965, Some Aspects of the Effects of Radiations on the Metabolism of Tissues and Tumours 1966, Cancer: If curable why not cured? 1971. *Leisure interests:* modern languages, walking. *Address:* The Research Laboratories, The Radiotherapeutic Centre, Addenbrooke's Hospital, Hills Road, Cambridge, CB2 2QQ; Thorndyke, Huntingdon Road, Cambridge, England (Home). *Telephone:* 0223-43619 (Office); 0223-76102 (Home).

MITCHELL, Peter Dennis, PH.D.; British biochemist; b. 29 Sept. 1920, Mitcham; s. of Christopher Gibbs Mitchell; m. Helen ffrench 1958; three s. one d.; ed. Queen's Coll., Taunton, Jesus Coll. Cambridge; worked in Department of Biochemistry, Univ. of Cambridge 1943-55, Demonstrator 1950-55; dir. Chemical Biology Unit, Dept. of Zoology, Univ. of Edinburgh 1955-63, Senior Lecturer 1961-62, Reader 1962-63; Dir. of Research, Glynn Research Inst. 1964-; Fellow of Royal Soc. 1974; Foreign Assoc., Nat. Acad. of Sciences, U.S.A. 1977; Hon. Dr.rer.nat. (Tech. Univ., Berlin) 1976; Hon D.Sc. (Exeter) 1977; C.I.B.A. Medal and Prize, Biochemical Soc., England, for outstanding research 1973; Warren Triennial Prize, Trustees of Mass. Gen. Hospital, Boston 1974; Louis and Bert Freedman Foundation Award, New York Acad. of Sciences 1974; Wilhelm Feldberg Foundation Prize 1976; Lewis S. Rosenstiel Award, Brandeis Univ. 1977; Medal of Federal European Biochemistry Soc. 1978; Nobel Prize for Chemistry 1978. *Publications:* Chemiosmotic Coupling in Oxidative and Photosynthetic Phosphorylation 1966, Chemiosmotic Coupling and Energy Transduction 1968. *Leisure interests:* family life, home building and creation of wealth and amenity, restoration of buildings of architectural and historical interest, music, thinking, understanding, inventing, making, sailing. *Address:* Glynn House, Bodmin, Cornwall, PL30 4AU, England. *Telephone:* Cardinham 381.

MITCHELL, William S., C.P.A.; American business executive; b. 19 Sept. 1914, Alameda; m.; ed. Univ. of Calif. (Berkeley) and Stanford Univ. Graduate School of Business; joined Safeway Stores Inc. 1936, Dir. 1953-, Vice-Pres. in charge of procurement and mfg. operations 1956, Sr. Vice-Pres. 1960, Exec. Vice-Pres. 1966, Chief Exec. Officer 1973-, Pres. May-Oct. 1977, Chair. May 1977-. *Leisure interests:* sailing, gardening. *Address:* Safeway Stores Inc., P.O. Box 660, Oakland, Calif. 94604, U.S.A.

MITCHISON, Naomi; British novelist and farmer; b. 1 Nov. 1897, Edinburgh; d. of John Scott Haldane and Louisa Kathleen Trotter; m. Gilbert Richard Mitchison 1916; three s. two d.; ed. Dragon School, Oxford. Ed. Outline for Boys and Girls 1932; Labour candidate for Scottish Univs. 1935; mem. Bakgatla tribe (S.E. Botswana). *Publications:* The Conquered 1923, When the Bough Breaks 1924, Cloud Cuckoo Land 1925, Black Sparta 1928, Anna Comnena 1928, Nix-Nought-Nothing 1928, Barbarian Stories 1929, The Corn King and the Spring Queen 1931, The Delicate Fire 1932, We Have Been Warned 1935, The Fourth Pig 1936, Socrates (with R. H. S. Crossman) 1937, Moral Basis of Politics 1938, The Kingdom of Heaven 1939, As it Was in the Beginning (with L. E. Gielgud) 1939, The Blood of the Martyrs 1939, Re-Educating Scotland 1945, The Bull Calves 1947, Men and Herring (with D. Macintosh) 1949, The Big House 1950, Lobsters on the Agenda 1952, Travel Light 1952, Swan's Road 1954, Graeme and the Dragon 1954, Land the Ravens Found 1955, Chapel Perilous 1955, Little Boxes 1956, Behold Your King, The Far Harbour 1957, Other People's Worlds, Five Men and ■ Swan 1958, Judy and Lakshmi 1959, Rib of the Green Umbrella 1960, The Young Alexander 1960, Karensgaard 1961, Memoirs of a Spacewoman 1962, The Fairy Who Couldn't Tell a Lie 1963, When We Become Men 1964, Return to the Fairy Hill 1966, Friends and Enemies 1966, African Heroes 1968, The Family at Ditlabeng 1969, The Africans: A History 1970, Sun and Moon 1970, Cleopatra's People 1972, A Danish Teapot 1973, A Life for Africa 1973, Sunrise Tomorrow 1973, Small Talk (autobiog.) 1973, All Change Here 1975, Solution Three 1975, Snake! 1976, The Two Magicians 1979, The Knife and other poems 1979, You May Well Ask 1979. *Address:* Carradale House, Carradale, Argyll, Scotland.

MITCHUM, Robert Charles Duran; American actor; b. 6 Aug. 1917, Bridgeport, Conn.; s. of James and Anne Mitchum; m. Dorothy Spence 1940; two s. one d.; settled in California 1937; joined Long Beach Theatre Guild; worked as radio writer, shoe salesman; began film acting 1943; formed DRM Productions 1955, later Talbot Productions; named "best actor of the year" by Nat. Bd. of Review 1960. *Films include:* The Story of G.I. Joe 1945, Till the end of Time 1946, Undercurrent 1946, The Locket 1946, Pursued 1947, Crossfire 1947, Desire Me 1947, Out of the Past 1947, Rachel and the Stranger 1948, Blood on the Moon 1948, The Red Pony 1949, The Big Steal 1949, Holiday Affair 1949, Where Danger Lives 1950, My Forbidden Past 1951, His Kind of Woman 1951, The Racket 1951, Macao 1952, One Minute to Zero 1952, The Lusty Men 1952, Angel Face 1953, White Witch Doctor 1953, Second Chance 1953, She Couldn't Say No 1954, River of No Return 1954, Track of the Cat 1954, Not as a Stranger 1955, The Night of the Hunter 1955, The Man with the Gun 1955, Foreign Intrigue 1956, Bandido 1956, Heaven Knows Mr. Alison 1957, Fire Down Below 1957, The Enemy Below 1957, Thunder Road 1958, The Hunters 1958, The Angry Hills 1959, The Wonderful Country 1959, Home from the Hill 1960, A Terrible Beauty 1960, The Grass is Greener 1960, The Sundowners 1960, The Last Time I Saw Archie 1961, Cape Fear 1962, The Longest Day 1962, Two for the Seesaw 1962, The List of Adrian Messenger 1963, Rampage 1963, Man in the Middle 1964, What ■ Way to Go 1964, Mr. Moses 1965, The Way West 1967, El Dorado 1967, Anzio 1968, Villa Rides 1968, Five Card Stud 1968, Secret Ceremony 1968, Young Billy Young 1969, The Good Guys and the Bad Guys 1969, Ryan's Daughter 1971, The Wrath of God 1972, The Friends of Eddie Coyle 1973, The Yakusa 1974, Battle of Midway 1975, Farewell My Lovely 1975, The Amsterdam Kill 1975, The Last Tycoon 1976, The Big Sleep 1977. *Address:* Sunset Boulevard, Hollywood, California 90060, U.S.A.

MITFORD, Jessica (sister of late Hon. Nancy Mitford); American (b. British) writer; b. 11 Sept. 1917; Went to U.S.A. 1939; Distinguished Prof. San Jose State Univ. Sept. 1973-Jan. 1974. *Publications:* Hons and Rebels (autobiography) 1960, The American Way of Death 1963, The Trial of Dr. Spock 1970, The American Prison Business 1973, A Fine Old Conflict 1977. *Address:* 6411 Regent Street, Oakland, Calif. 94618, U.S.A.

MITIN, Mark Borisovich; Soviet philosopher; b. 5 July 1901, Zhitomir, Ukraine; ed. Inst. of Red Professors, Moscow; Party work 1929-36; Scientific worker, Inst. of Philosophy 1936-44; Lecturer Higher Party School 1945-50; mem. Cen. Cttee. of CPSU 1939-56; mem. U.S.S.R. Acad. of Sciences 1939-; Chief Ed. For a Lasting Peace, For a People's Democracy, Prague 1950-56; Deputy to U.S.S.R. Supreme Soviet 1952-58; mem. staff All-Union Soc. Znania (Knowledge) 1956-60; Chief Ed. Question of Philosophy 1960-67; Chair. Scientific Council on the problems of foreign ideological movements, Acad. of Sciences, U.S.S.R. 1967-; State Prize 1943; Order of Lenin (twice); Order of Red Banner of Labour (twice). *Publications:* Hegel and the Theory of Dialectical Materialism 1932, For materialist biological sciences 1949, Philosophy of the Contemporary World 1960, V. I. Lenin and the pressing problems of philosophy 1971, Philosophy Today 1975, Problems of Ideological Combat Today 1976. *Address:* 14 Ulitsa Volkhonka, Moscow, U.S.S.R.

MITRA, Sombhu; Indian actor and stage director; b. 22 Aug. 1915; ed. Ballygunge Govt. High School and St. Xavier's Coll., Calcutta; joined Stage, Calcutta 1939; Producer-Dir.-Actor, Indian People's Theatre Asscn. 1943-46; Producer-Dir.-Actor Bohurupee (non-commercial theatre) 1948-; Fellow Sangeet Natak Akademie, New Delhi; Grand Prix Karlovy Vary Film Festival 1957; Nat. Honour Padma Bhusan 1970, Ramon Magsasay Award 1976. *Productions include:* Four Chapters (Tagore) 1951, An Enemy of the People (Ibsen) 1952, Red Oleanders (Tagore) 1954, The Doll's House (Ibsen) 1958, Sacrifice (Tagore) 1961, The King of the Dark Chamber (Tagore) 1964, Oedipus Rex (Sophocles) 1964, Baki Itihas 1967, Pagla Ghora 1971. *Publications:* Abhinay-Natak-Mancha 1957, Putul Khela 1958, Kanchanranga 1961, Ghurnee 1967, Raja Oidipous 1969, Prasanga Natya 1973. *Address:* Bohurupee, 11a Nasiruddin Road, Calcutta 17, India.

MITRY, Emmanuel, Comte de, French industrialist; b. 21 June 1892. Pres. Gen. Man. Soc. des Forges de Gueugnon 1940-74, Pres. De Wendel et Cie., 1952-72; Hon. Pres. De Wendel-Sidelor 1968-; Vice-Pres. Etablissements Nozal; Dir. Anciens Etablissements Chavanne-Brun Frères, Distilleries de la Suze, Soc. Lorraine de Laminage Continu (SOLLAC); Officier Légion d'honneur, Croix de Guerre. *Address:* 10 rue de Clichy, Paris 9e; Chateau de Betange, 57 Florange (Moselle), France.

MITSCHERLICH, Alexander, DR. MED.; German professor of medicine; b. 20 Sept. 1908; ed. Gymnasium, Hof, Bavaria, and Univs. of Munich, Prague, Berlin, Freiburg, Zürich and Heidelberg; Dir. Psychosomatic Clinic, Univ. of Heidelberg Medical School 1948-67, Extraordinary Prof. of Psychosomatic Medicine 1952-58, Prof. 1958-; Prof. of Psychology, Univ. of Frankfurt; Dir. Sigmund Freud Inst. for Psychoanalysis and Psychosomatic Medicine, Frankfurt/Main 1959-76; Hon. mem. American Psychosomatic Soc. 1952; Peace Prize of West German Book Trade 1969. *Publications:* Vom Ursprung der Sucht 1947, Freiheit und Unfreiheit in der Krankheit 1948, Medizin ohne Menschlichkeit 1960, Auf dem Weg zur vaterlosen Gesellschaft 1963, Die Unwirtlichkeit unserer Städte 1965, Krankheit als Konflikt - Studien zur psychosomatischen Medizin I, II 1966-67, Die Unfähigkeit zu trauern (with M. Mitscherlich-Nielsen) 1967, Der Kranke in der modernen Gesellschaft (ed., inter al.) 1967, Die Idee des Friedens und die menschliche Aggressivität 1969, Versuch, die Welt besser zu bestehen 1970, Thesen zur Stadt der Zukunft 1971, Massenpsychologie ohne Ressentiment 1973, Das Ich und die Vielen 1978. *Address:* Myliusstr. 20, 6000 Frankfurt, Federal Republic of Germany. *Telephone:* 729245.

MITSUI, Shingo, DR.AGR.SC.; Japanese agricultural scientist; b. 1 Jan. 1910, Tokyo; m. Kikuko Mitsui 1935; one s. one d.; ed. Univ. of Tokyo; Sr. Chemist, Dept. of Agricultural Chem. Nat. Agricultural Experiment Station of Ministry of Agric. and Forestry 1932-45, Dir. of Dept. of Soil and Fertilizer 1945-48; Asst. Prof. (Fertilizer and Plant Nutrition) Faculty of Agric., Univ. of Tokyo 1948-52, Prof. (Fertilizer and Plant Nutrition) 1952-63, Dean of Dept. of Chemical Sciences of Graduate School 1963-65, Prof. Emer. 1970-; mem. Scientific Advisory Cttee. of Int. Atomic Energy Agency (IAEA) 1965-; Lecturer, FAO Int. Training Centre on Fertilizer and Soil for Rice, India 1952; Councillor Japan Radio Isotope Assn. and Scientific Expert to Atomic Energy Comm. Japan 1955-; Dir. Fertilizer Research Inst. 1969-; Del. to numerous int. confs. on rice cultivation and peaceful uses of atomic energy; Prize of Japan Acad. and others. *Publications:* Dynamic Studies on the Nutrients Uptake by Crop Plants (with others) Parts 1-45 1951-64, Inorganic Nutrition Fertilization and Soil Amelioration for Lowland Rice 1954, Efficient Use of Urea Fertilizer in Japan 1965. *Leisure interests:* golf, violin. *Address:* Higashi Fushimi 2-2-25, Hoya-shi, Tokyo, Japan. *Telephone:* 0424-63-1453.

MITTAG, Günter, DR.RER.OEC.; German politician; b. 8 Oct. 1926, Stettin (now Szczecin, Poland); ed. Stettin, and Transport Coll., Dresden; fmr. Railway Inspector; mem. SED 1946-, Cand. mem. Cen. Cttee. 1958-62, mem. 1962-; Head of Transport Section of SED Cen. Cttee. 1953-58; cand. mem. Politburo (SED) 1963-66, mem. 1966-, Sec. Cen. Cttee. 1962-73, 1976-; Sec. Econ. Comm. of Politburo (SED) 1958-61, Deputy Chair. and Sec., G.D.R. Econ. Council 1961-62, Head of Bureau for Industry and Building 1963; Chair. Cttee. on Industry, Construction and Transport 1963-; mem. Volkskammer 1963-; mem. State Council 1963-71; First Deputy Chair. Council of Ministers 1973-76; Vaterländischer Verdienstorden in Silber 1959, Gold 1964; Order of Banner der Arbeit and other decorations. *Publications:* Die Politische Ökonomie des Sozialismas und ihre Anwendung in der DDR 1969. *Address:* Sozialistische Einheitspartei Deutschlands, 102 Berlin, Am Marx-Engels-Platz 2, German Democratic Republic.

MITTERER, Otto; Austrian politician; b. 22 Oct. 1911, Vienna; m. Ilse Pichler; one d.; ed. grammar school and business college; family wholesale clock firm 1932-40, 1940-; mil. service 1940-45; entered politics, mem. Austrian Econ. Union 1947, Chair. Trade Section 1955; Minister of Trade and Industry, 1968-70; Pres. Vienna Chamber of Commerce; mem. of the Nat. Council 1968-; Kommerzialrat 1956; Grosse Silberne Ehrenmedaille, Vienna Chamber of Commerce 1959; Grosses Silbernes Ehrenzeichen for Services to the Repub. of Austria 1963. *Leisure interests:* riding, skiing, skating, film making, theatre, cinema. *Address:* Vienna 1, Goldschmiedgasse 10, Austria.

MITTERRAND, François Maurice Marie; French politician; b. 26 Oct. 1916; brother of Gen. Jacques Mitterrand (*q.v.*); ed. Univ. of Paris; served 1939-40; taken prisoner, escaped back to France where active in prisoner-of-war and resistance movements; missions to London and Algiers 1943; Sec.-Gen. Org. for Prisoners of War, War Victims and Refugees 1944-46; Deputy 1946-58, 1962-; Minister for Ex-Service men 1947-48; Sec. of State for Information attached Prime Minister's Office 1948-49; Minister for Overseas Territories 1950-51; Chair. Union Démocratique et Socialiste de la Résistance 1951-52; Minister of State Jan.-Feb. 1952, March 1952-July 1953; Del. to Council of Europe July-Sept. 1953; Minister of the Interior 1954-55; Minister of State for Justice 1956-57; Senator 1959-62; Candidate for Pres. of France 1965, 1974; Pres. of Fed. of Democratic and Socialist Left 1965-68; First Sec. Socialist Party 1971-; Vice-Chair. The Socialist International 1972-; Pol. Dir. Le Courier de la Nièvre; Officier Légion d'honneur, Croix de guerre, Rosette de la Résistance. *Publications:* Aux frontières de l'union française, La Chine au défi 1961, Le coup d'etat permanent 1964, Technique économique française 1968, Ma part de vérité 1969, Un socialisme du possible 1971, La rose au poing 1973, La paille et le grain 1975, Politique 1977, L'abeille et l'architecte 1978. *Address:* Le Parti Socialiste, 7 bis place Palais Bourbon, Paris 7e; 22 rue de Bièvre, 75005 Paris, France (Home).

MITTERRAND, Gen. Jacques; French aerospace executive; b. 21 May 1918, Angoulême, Charentes; brother of François Mitterrand (*q.v.*); m. Gisèle Baume; two d.; ed. St. Paul Coll., Angoulême, St. Louis Lycée, Paris, St. Cyr Mil. Acad.; served in Air Force 1937-75; participated in devt. and institution of French Nuclear Force; mem. Del. to NATO Perm. Group, Washington, D.C. 1961-64; Gen., Asst. Commdr. French Strategic Air Forces 1965-67; Deputy Chief of Staff of Air Force 1968, of Armed Forces 1968-70; Commdr. French Strategic Air Forces 1970-72; Insp. Gen. of Air Force 1972-75; mem. Supreme Air Council 1970-75; Chair. Bd. and Chief Exec., Soc. Nat. Industrielle Aérospatiale (SNIAS) Dec. 1975-; Counsellor to Chair. French Atomic Energy Agency 1975; First Vice-Chair. French Aerospace Industries Assn. (GIFAS); Chair. Assn. Européenne des Constructeurs de Matériel Aérospatial (AECMA); Vice-Chair. Supervisory Bd. of Airbus Industry; mem. Bd. Inst. of Air Transport; Grand Officier, Légion d'honneur; Croix de guerre; Croix de la Valeur militaire; Croix du Combattant; Médaille de l'Aéronautique. *Address:* Société Nationale Industrielle Aérospatiale, 37 boulevard de Montmorency, 75116 Paris; 10 bis rue Paul Baudry, 75008 Paris, France (Home).

MIYADOH, Daigo; Japanese banker; b. 25 Sept. 1912, Hiroshima Prefecture; m.; one s. one d.; ed. Tokyo Univ.; joined Sanwa Bank 1936, Chief Sec. 1955-58, Gen. Man. San Francisco Branch 1958-60, Chief Rep. New York Rep. Office 1960-61, Dir. 1961-, Man. Dir. and Gen. Man. Foreign Dept. 1963-68, Sr. Man. Dir. 1968-72, Deputy Pres. 1972-76, Chair. 1976-. *Leisure interests:* art appreciation, golf. *Address:* 4-40, Tezukayama-naka Sumiyoshi-ku, Osaka 558, Japan. *Telephone:* (06) 671-3644.

MIYAKE, Shigemitsu; Japanese banker; b. 27 Feb. 1911, Osaka; s. of Shigetaka and Fumi (Ito) Miyake; m. Hina Inoue 1935; one s.

two d.; ed. Tokyo Imperial Univ.; with Bank of Japan 1933-67, Dir. 1962-67; Deputy Pres. Tokai Bank Ltd. 1967-68, Pres. 1968-69, Chair. and Pres. 1969-75; Chair. 1975-; Exec. Dir. Japan Man. Orgs. 1970-; Exec. Dir. Fed. of Japan Econ. Orgs. 1971-; Pres. Nagoya Chamber of Commerce and Industry 1974-; Vice-Pres. Japan Chamber of Commerce and Industry 1974-; Adviser Bank of Japan 1974-; Blue Ribbon Medal 1974. *Address:* Tokai Bank Ltd., 3-21-24 Nishiki, Naka-ku, Nagoya; Tsukimigaoka Mansion C-7, 2-5 Ho-o-cho, Chikusa-ku, Nagoya, Japan (Home). *Telephone:* 052-211-1111 (Office), 052-763-3357 (Home).

MIYAKE, Shoichi; Japanese politician; b. 28 Nov. 1900, Akechi-machi, Ena-gun, Gifu Prefecture; s. of Benjiro and Tatsu Miyake; m. Misao Shibuya 1925; two s.; ed. Waseda Univ.; participated in peasant movement in Niigata Prefecture; ■ founding mem. of Japan Socialist Party (JSP); several posts in right-wing faction during party split in 1950s; Head of Gen. Affairs Bureau and Educ. and Propaganda Bureau of reunified JSP 1955; Vice-Chair. JSP 1968, adviser; elected to House of Reps. 14 times; third sr. mem. of Diet 1976; Deputy Speaker, House of Reps. Dec. 1976-; disaffiliated from JSP 1977. *Leisure interests:* reading, sports, theatre. *Address:* House of Representatives, Tokyo; 50-208, Shimoyasumatsu, Tokorozawa-shi, Saitama Prefecture, 359, Japan (Home). *Telephone:* 0429-44-0838 (Home).

MIYAMORI, Kazuo; Japanese oil executive; b. 17 Sept. 1902; ed. Meiji Univ.; with Yamaguchi Bank Ltd. 1925-33, joined Sanwa Bank Ltd. 1933, Dir. 1956, Deputy Pres. 1964-66; Pres. and Chief Exec. Officer Maruzen Oil Co. Ltd. 1964-76, Chair. 1976-; Pres. Maruzen Tanker Co. Ltd. and Maruzen Real Estate Co. 1965-; Dir. Maruzen Petro Chemical Co. Ltd. 1964-, Kansai Oil Co. and Kansai and Osaka Petro Chemical Cos. Ltd. 1965-, Kanegabuchi Gosei Kagaku Kogyo Co. Ltd. 1967-; Auditor, Palace Side Bldg. Co. 1963-, Ohbayashi Road Construction Co. Ltd. and Japan Industrial Land Devt. Co. 1964-. *Address:* Maruzen Oil Co. Ltd., Nagahoribashisuji, Minamiku, Osaka, Japan.

MIYAMOTO, Kenji; Japanese writer and politician; b. 17 Oct. 1908; ed. Tokyo Imperial Univ.; mem. CP of Japan 1931-, (imprisoned 1933-45), mem. Cen. Cttee. 1933-, Gen. Sec. of Cen. Cttee. 1958-, Chair. Presidium Cen. Cttee. 1970-; mem. House of Councillors 1977-. *Publications:* Problems of Democratic Revolution 1947, Advance Towards Freedom and Independence 1949, Twelve Years' Letters 1952, World of Yuriko Miyamoto 1954, Prospects of Japanese Revolution 1961, The Path of Our Party's Struggle 1961, Actual Tasks and the Communist Party of Japan 1966, Selections from Literary Critiques of Kenji Miyamoto 1968, The Road towards ■ New Japan 1970, Standpoint of the Communist Party of Japan 1972, Dialogues with Kenji Miyamoto 1972, Kenji Miyamoto with Pressmen 1973, Abashiri Note 1975, Interviews with Kenji Miyamoto 1975, Kenji Miyamoto on Our Time 1975, Documentation of Trials of Kenji Miyamoto 1976, Dialogues with Kenji Miyamoto (sequel) 1977. *Address:* Central Committee of the Communist Party of Japan, Sendagaya 4-chome 26, Shibuya-ku, Tokyo, Japan.

MIYAZAKI, Kagayaki; Japanese chemical executive; b. 19 April 1909, Nagasaki Prefecture; s. of Matunosuke and Sue Miyazaki; m. Sumito Miyasaki 1937; one s. one d.; ed. Tokyo Univ.; Governing Dir. Japan Fed. of Employers' Asscns. 1949-; mem. Employers' Cttee. of Cen. Labour Relations Bd. 1953-62; Asahi-Dow Ltd. 1952; Pres. Asahi Chemical Industry Co. Ltd. 1961-; Dir. Fed. of Econ. Org. 1961-; mem. Export and Import Trading Council 1969-73; Vice-Pres. Japan Textile Fed. 1969-; mem. Tariff Council of Ministry of Finance 1970-; Counsel, Japan Chemical Fibres Assn. 1971-77, Chair. 1977-; mem. Japan External Trade Operational Council 1971-. *Leisure interest:* walking. *Address:* Asahi Chemical Industry Co. Ltd., 1-2 Yurakucho 1-chome, Chiyoda-ku, Tokyo; 8-26 Funabashi 1-chome, Setagaya-ku, Tokyo, Japan. *Telephone:* 429-2027.

MIYAZAKI, Kazuo; Japanese banker; b. 17 Feb. 1904, Tokyo; s. of Rikijiro and Haru Miyazaki; m. Teiko Nakano 1941; one s. four d.; ed. Tokyo Univ. of Commerce; Man. Dir., The Long-Term Credit Bank of Japan Ltd. 1952-58, Sr. Man. Dir. 1958-63, Deputy Pres. 1963-66, Pres. 1966-71, Chair. of Bd. 1971-77, counsellor; Medal with Blue Ribbon; Order of the Sacred Treasure, 1st class. *Leisure interest:* golf. *Address:* The Long-Term Credit Bank of Japan Ltd., 2-4 Otemachi 1-chome, Chiyoda-ku, Tokyo 100; 10-5 Nakamura 1-chome, Nerima-ku, Tokyo 176, Japan (Home). *Telephone:* Tokyo 211-5111 (Office); 990-0854 (Home).

MIYAZAWA, Kiichi; Japanese politician; b. 8 Oct. 1919; ed. Tokyo Univ.; Ministry of Finance 1941-49; Private Sec. to Minister of Finance 1949-51, to Minister of Int. Trade and Industry 1951-52; mem. House of Councillors 1953-65, Chair. Steering Cttee. 1961-62; Minister of State in charge of Econ. Planning Agency 1962-64, 1966-68; mem. House of Reps. 1967-; Minister of Int. Trade and Industry (in charge of Expo 70) 1970-71, of Foreign Affairs 1974-76; Minister of State and Dir.-Gen., Econ. Planning Agency 1977-79. *Address:* House of Representatives, Tokyo, Japan.

MIZENER, Arthur, M.A., PH.D.; American university professor; b. 3 Sept. 1907, Erie, Pa.; s. of Mason P. and Mabel (Moore) Mizener; m. Rosemary Paris 1935; one d.; ed. Princeton and Harvard Univs.; Instructor in English, Yale Univ. 1934-40; Asst. Prof. Wells Coll. 1940-43, Assoc. Prof. 1943-45; Prof. Carleton Coll. 1945-51; Prof. Cornell Univ. 1951-76, Prof. Emer. 1976-; Fulbright Lecturer in American Studies, Univ. of London 1955-56; Guggenheim Fellow 1965-66; Sr. Fellow, Nat. Endowment for the Humanities 1968. *Publications:* The Far Side of Paradise: A Biography of F. Scott Fitzgerald 1951, Afternoon of ■ Author 1957, The Sense of Life 1964, Twelve Great American Novels 1967, The Saddest Story: A Biography of Ford Madox Ford 1971, Scott Fitzgerald and His World 1973. *Address:* 105 Miller Street, Ithaca, N.Y. 14850, U.S.A.

MIZUKAMI, Tatsuzo, M.A.; Japanese business executive; b. 15 Oct. 1903, Kitakoma-gun; s. of Kanzaburo and Chizu Mizukami; m. Tsune Inoue 1929; two d.; ed. Tokyo Commercial Coll.; joined Mitsui and Co. Ltd. 1928, Vice-Gen. Man. Sundries Dept. 1947, Exec. Vice-Pres. Mitsui and Co. Ltd. 1959, Pres. 1961, Chair. 1969, Dir. 1971-73, Sr. Adviser to Bd. 1971-; Exec. Dir. Daiichi Bussan Kaisha Ltd. 1947, Exec. Vice-Pres. 1957; Chair. Export Council of Japanese Traders, Ocean Econs. Research Unit, Int. Man. and Devt. Inst.; Pres. Japan Foreign Trade Council, Inc., Japan Greening Centre; Exec. Dir. Fed. of Econ. Orgs., Exterior Econ. Aid Council; Adviser Keidanren Cttee. of Foreign Trade, Tokyo Chamber of Commerce; Trustee Little League Baseball Foundation; Pres. Japan Little League Assn., Inter-Univ. Athletic Union of Japan; Blue Ribbon Medal 1963, Dark Blue Ribbon Medal 1975, (First Class) Imperial Order of the Sacred Treasure 1977. *Leisure interests:* golf, "bonsai". *Address:* Mitsui and Company Building, 2-1 Ohtemachi 1-Chome, Chiyoda-ku, Tokyo (Office); 30-2 Kakinokisaka 2-Chome, Meguro-ku, Tokyo, Japan.

MIZUNO, Seiichi, B.LITT., D.LITT.; Japanese professor of oriental culture; b. 24 March 1905, Kobe, Japan; s. of Torata and Fuji Mizuno; m. Takayo Mizuno 1931; one s.; ed. Kyoto Univ.; studied Chinese archaeology in Peking 1929-31; Research mem. of Research Inst. of Oriental Culture 1931-48; Prof. of Research Inst. for Humanities, Kyoto Univ. 1948-68, Prof. Emer. 1968-; mem. Specialist Cttee. of Protection for Nat. Properties 1959-; awards include Asahi-Sho and Onshi-Sho. *Publications:* Inner Mongolia and the Region of the Great Wall (with N. Egami) 1935, Study of Cave-Temples at Lung-men, Honan (with T. Naga'iiro) 1941, Tsushima (with others) 1952, Yun-kang (with T. Nagahiro) (16 vols.) 1950-55, Bronze and Jades of Ancient China 1959, Bronze and Stone Sculpture of China 1960, Horyuji Monastery 1965. *Address:* 91 Jodoji-Kamibambacho, Sakyo-ku, Kyoto 606, Japan. *Telephone:* 771-6564.

MIZUSHIMA, Sanichiro, D.SC.; Japanese physical chemist; b. 21 March 1899, Tokyo; s. of Sanemon Mizushima and Kiku Yamamoto; m. Tokiko Shoda 1927; three s. three d.; ed. Univ. of Tokyo; Prof. of Physical Chem., Univ. of Tokyo 1938-59, Prof. Emer. 1959-; mem. Japan Science Council 1950-62; Dir. Tokyo Research Inst. of Yawata 1959-69, Hon. Dir. 1969-73; mem. Japan Acad.; Bureau mem. Int. Union of Pure and Applied Chem. 1955-67; Hon. mem. Chemical Soc. of Japan (Pres. 1961-62), Royal Spanish Soc. of Physics and Chem., Higher Science Council of Spain, Indian Acad. of Science, American Acad. of Arts and Sciences; mem. Pontifical Acad. of Sciences, Nat. Acad. of Sciences, U.S.A.; Chemical Soc. Prize 1929, Imperial Acad. Prize 1938; Decoration of Emperor for Cultural Merits 1961, First Class 1970. *Publications:* Quantum Chemistry 1940, Electric Waves and Matter 1946, Structure of Molecules and Internal Rotation 1954, Raman Effect 1958, Collection of Scientific Papers 1959, A History of Physical Chemistry in Japan 1972, Ancient Tokaido Roads 1973, Cultural and Social Background of the Rapid Modernization of Japan 1979. *Leisure interest:* writing essays. *Address:* 2-10-6, Tamagawa-Denenchofu, Setagayaku, Tokyo 158, Japan. *Telephone:* Tokyo 721-4045.

MJARTAN, Jozef; Czechoslovak politician; b. 22 Feb. 1900, Cigel, Prievidza; m. Anna Snircova 1927; two s. one d.; farmer 1925-52; mem. Unified Agricultural Co-operative 1952-; Deputy to Nat. Assembly 1945-54, 1960-69 (retd.); Deputy Chair., Bd. Commrs. 1948-53; Deputy and Deputy Chair. Slovak Nat. Council 1953-60; mem. Presidium Cen. Cttee. Nat. Front, Č.S.S.R. 1966-, mem. Presidium Slovak Cen. Cttee. Nat. Front 1966-; mem. Presidium Slovak Reconstruction Party 1948-, Deputy Chair. 1950-66, Chair. 1966-; Deputy to House of the People, Fed. Assembly 1969-71;

mem. Presidium of Fed. Assembly 1969-71; Deputy to Slovak Nat. Council 1971-76; Order of Slovak Nat. Rising First Class 1946, Order of 25th February 1948 First Class 1948, Order of Labour 1960, Order of the Red Star 1969, Order of the Republic 1970, Order of February 1975. *Leisure interest:* hunting. *Address:* Slovak Reconstruction Party, Sedlárska 7, Bratislava, Czechoslovakia. *Telephone:* 305-65.

MLÁDEK, Jan Victor, D.IUR. ET RER.POL.; American (b. Czech) economist; b. 7 Dec. 1911; ed. Charles Univ., Prague, Paris Univ., Masaryk Univ., Brno.; worked in Cen. Office, Brno 1938-39; served with Czechoslovak Army in Exile, France, U.K. 1939-42; Head of Monetary Dept., Ministry of Finance, Czechoslovak Govt. in Exile, London 1942-45; Head of Currency and Banking Dept., Prague 1945-46; Dir. Nat. Bank of Czechoslovakia 1945-47; Gov. and Exec. Dir. IMF 1946-48, Deputy Dir. of Operations 1948-50, Deputy and Acting Dir. European and N. American Dept. 1950-53, Dir. European Office (Paris) 1953-61, work in underdeveloped countries 1955-61, Dir. in charge of org. of African Dept. 1961-64, Dir. Cen. Banking Service 1976. *Publications:* International Economic Institutions 1946. *Address:* c/o International Monetary Fund, 19th and H Streets N.W., Washington, D.C. 20431, U.S.A.

MLADENOV, Peter Toshev; Bulgarian politician; b. 22 Aug. 1936, Toshevtsi, Vidin; ed. Moscow State Inst of Int. Relations. Sec., subsequently First Sec., Vidin District Cttee., League of Young Communists 1963-66; Sec. Cen. Cttee. League of Young Communists 1966-69; First Sec. Vidin Dist. Cttee., Bulgarian CP 1969-71; cand. mem. Cen. Cttee. Bulgarian CP 1971-78, mem. 1978-; Deputy to Nat. Assembly; Minister of Foreign Affairs Dec. 1971-. *Address:* Ministry of Foreign Affairs, Sofia, Bulgaria.

MŁYŃCZAK, Tadeusz Witold; Polish politician; b. 1934, Poznań; ed. Polytechnic Univ., Poznań; worked in H. Cegielski metal works, Poznań, then in Polytechnic Univ., Poznań; Head of Tech. Eng. at Railway Works, Poznań; mem. Democratic Party (SD) 1958-, Sec. Poznań town and dist. Cttee. 1961-66, mem. Poznań Voivodship Cttee. 1964-69, mem. Cen. Cttee. 1969-, mem. Presidium of Cen. Cttee. 1974-, Chair. of Cen. Cttee. of SD 1976-; Deputy to Seym 1965-; Deputy Chair. Town Nat. Council, Poznań 1973-74; mem. All-Poland Cttee. of Nat. Unity Front (OK FJN) 1975-; Deputy Chair. State Council March 1976-; Chair. Soc. for Connection with Poles living abroad, "Polonia" 1977-; Gold Cross of Merit, Chevalier's Cross of Order of Polonia Restituta. *Address:* Kancelaria Rady Panstwa PRL, ul. Wiejska 4/6/8, 00-489 Warsaw, Poland.

MO WEN-HUA; Chinese soldier; b. 1915, Nanning, Kwangsi province; ed. China Workers' and Peasants' Red Army Coll.; participated in Canton uprising 1927; Mayor of Nanning 1950; Dir. of Political Dept., PLA Northeast Region 1953; Pres. of PLA Political Coll. 1958; Political Commissar, PLA Armoured Corps 1975. *Address:* People's Republic of China.

MOALLA, Mansour, L. EN D., L. ÈS L., LL.D.; Tunisian economist; b. 1 May 1930, Sfax; ed. Inst. des Etudes Politiques, Ecole Nat. d'Administration, Paris. Inspecteur des Finances 1956; Tech. Adviser, Ministry of Finance 1957-58; Dir.-Gen. Banque Centrale de Tunisie 1958-61; Dir. of Admin., Office of the Pres. 1961-63, 1968-69; Dir. Ecole Nat. d'Administration (ENA) 1963-67; Under-Sec. of State, Ministry of Commerce and Industry 1967-68; Sec. of State (then Minister) for Posts, Telegraphs and Telecommunications (PTT) 1969-70; Deputy Minister in charge of the Nat. Plan 1970-71, Minister 1971-74; mem. Cen. Cttee., Political Bureau, Destour Socialist Party 1971-; Grand Cordon, Order of the Repub.; Grand Cordon Order of Independence. *Address:* 32 avenue de la République, Carthage, Tunisia.

MOBERG, Sven Torsten, PH.D.; Swedish civil servant and politician; b. 19 Nov. 1919, Gothenburg; s. of Simon Moberg and Olivia Nylander; m. Cecilia Brilioth 1946; two s. two d.; Asst. Prof. in Statistics, Univ. of Lund 1952-53; Head of Div., Nat. Social Welfare Bd. Stockholm 1953-55; Chief Sec. of Govt. Comm. on Planning of Univ. Educ. 1955-60; Head of Dept., Ministry of Educ. 1960-63, Under-Sec. of State, Ministry of Educ. 1963-67, Minister without Portfolio in Charge of Educational and Cultural Affairs 1967-73; mem. Riksdag (Parl.) 1970-; Gen. Dir. Ministry of Finance 1973-. *Publications:* Vem blev student och vad blev studenten? (Sociological studies of five-year group Swedish students 1910-1943). *Address:* Burträskgatan 10, S-162 21 Vällingby, Sweden. *Telephone:* 08/874770.

MOBERLY, John Campbell, C.M.G.; British diplomatist; b. 27 May 1925, Exmouth, Devon; s. of the late Sir Walter Moberly and Lady Moberly (née Gwendolen Gardner); m. Patience Proby 1959; two s. one d.; ed. Winchester Coll. and Magdalen Coll., Oxford; war service in Royal Navy 1943-47; entered Foreign (later Diplomatic) Service 1950; service at Foreign Office and in Bahrain and Kuwait 1950-59; British Political Agent in Doha, Qatar 1959-62; First Sec., Athens 1962-66; with FCO 1966-68; Canadian Nat. Defence Coll., Kingston, Ont. 1968-69; Counsellor, Washington, D.C. 1969-73; Dir. Middle East Centre for Arab Studies, Shemlan, Lebanon 1973-75; Amb. to Jordan 1975-79; Asst. Under-Sec. FCO Jan. 1979-. *Leisure interests:* skiing, mountains, swimming. *Address:* 55 Cardigan Street, London S.E.11; The Cedars, Temple Sowerby, Penrith, Cumbria, England. *Telephone:* Kirkby Thore 437 (Cumbria).

MOBUTU SESE SEKO, Lieut.-Gen. (Joseph-Désiré Mobutu); Zairian politician; b. 14 Oct. 1930; ed. Léopoldville (now Kinshasa) and Coquilhatville (now Mbandaka). Sergeant-Maj. Accountancy Dept., Force Publique, Belgian Congo 1949-56; course at Inst. of Social Studies, Brussels; journalist, Léopoldville; mem. Mouvement National Congolaise; del. Brussels Round Table Conf. on Congo independence 1959-60; Sec. of State for Nat. Defence, Lumumba cabinet 1960; Chief of Staff, Congo Army 1960; took over supreme power in name of army and suspended all political activity for three months Sept. 1960; appointed ■ College of High Commrs. to take over govt.; Maj.-Gen. and C.-in-C. of Congolese Forces 1961-65, Lt.-Gen. and Pres. of Congo (now Zaire) Nov. 1965-, also Pres. of Cabinet Oct. 1966-, concurrently Minister of Foreign Affairs 1966-72, also Minister of Nat. Defence and Territorial Security, fmrly. for Ex-Servicemen and Planning, for Veterans' Affairs 1978-; adopted present name Jan. 1972; Hon. LL.D. (Duquesne Univ., U.S.A.) 1970, Order of the Source of the Nile (Uganda) 1972. *Address:* Cabinet du Président, Kinshasa, Zaire; Villa les Miguettes, Savigni, Switzerland. *Telephone:* Lausanne 971061.

MOC, Miroslav; Czechoslovak journalist; b. 12 Feb. 1928, Předlice; ed. School of Political Studies of Cen. Cttee. of CP of Czechoslovakia; mem. editorial staff of N. Bohemian regional weekly of CP of Czechoslovakia, Ústí nad Labem 1946-47; mem. editorial staff Mladá fronta, Prague 1947-63; mem. editorial staff, later Deputy Chief Ed. Rudé právo 1963-69, Chief Ed. 1969-75; mem. Cen. Cttee. CP of Czechoslovakia 1969-76, mem. Secr. 1970-75; Deputy to House of the People, Fed. Assembly 1971-76; Amb. to Switzerland 1975-; Order of Labour 1970, Order of Victorious February 1973. *Address:* Embassy of the Czechoslovak Socialist Republic, Muristrasse 53, Berne, Switzerland.

MOCH, Jules; French politician; b. 15 March 1893, Paris; s. of Gaston Moch and Alice Pontremoli; m. 1st Germaine Picard 1917, two s. (one deceased); m. 2nd Eliane Bickert 1963; ed. Ecole Polytechnique; served Army 1914-18 War; Dir. of Services for industries and agric. restitution in Germany and ex-enemy countries 1918-20; engineer 1920-27; Deputy for Hérault 1928-40; Sec.-Gen. in Prime Minister Blum's Office 1936; Under-Sec. of State 1937; Minister of Public Works 1938; served in French Navy 1939-40; imprisoned for anti-Pétain vote 1940-41; active in resistance movement; later joined Gen. de Gaulle in London, rejoined Free French Naval Forces and Gen. Staff of Free French Armed Forces 1943; sat in Consultative Assembly, Algiers; took part in Mediterranean operations; Deputy to Nat. Constituent Assembly, Nat. Assembly 1946-58, 1962-67; Minister of Public Works and Transport in four cabinets; Minister of Nat. Economy and Reconstruction Oct.-Nov. 1947; Minister of the Interior and Vice Prime Minister 1947-50, of Defence 1950-51; Ministry of Interior 1958; Perm. Del. to UN Disarmament Comm. 1953-60; mem. Dir. Cttee., Socialist Party (SFIO), resigned from party 1975; Croix de guerre for both World Wars, Grand Officier, Légion d'honneur, Médaille de la Résistance. *Publications:* Restitutions et réparations 1921, La Russie des Soviets 1925, Socialisme et rationalisation 1927, Jean Jaurès et les problèmes du temps présent 1927, Le parti socialiste et la politique financière 1928, Le rail et la nation 1931, Capitalisme et transports 1932, Socialisme, crises, nationalisations 1932, L'Espagne républicaine (co-author) 1933, Pour marcher au pouvoir 1935, Arguments et documents 1936, Guerre aux trusts 1945, Arguments socialistes 1945, Confrontations 1952, Yougoslavie, terre d'expériences 1953, Alerte 1954, La folie des hommes 1954, U.S.S.R., les yeux ouverts 1956, Washington D. Smith, banquier de Wall Street 1957, En retard d'une paix 1958, Socialisme vivant 1960, Paix en Algérie 1961, Le pont sur la Manche 1962, Non à la force de frappe 1962, Histoire du réarmement allemand depuis 1950, 1965, Rencontres avec Darlin et Eisenhower 1968, Destin de la paix 1969, Rencontres avec Léon Blum 1970, Le Front populaire, Grande espérance 1971, Rencontres avec de Gaulle 1971, Socialisme de l'ère atomique 1973, Une si longue vie 1976, Le communisme, jamais 1978. *Leisure interests:* painting, piloting ■ 'plane. *Address:* La Grivière, Cabris, 06530 Peymeinacle, France.

MOCH, Paul Albert; French mining executive; b. 8 Feb. 1908, Neuilly-sur-Seine; s. of Samuel and Alice (née Bernard) Moch; ed. Collège Chaptal and Ecole nationale supérieure des mines de Paris,

Grad. Ecole Polytechnique. Pres. d'honneur Elf Union; fmr. Pres. Socantar, Elf Mineraloel; Vice-Pres. Enterprise de Recherches et d'Activités Pétrolières (ERAP) 1965-76; fmr. Admin., Soc. nationale des pétroles d'Aquitaine (SNPA), Soc. Elf pour la recherche et l'Exploitation des Hydrocarbures (ELF R.E.), ELF France, ELF Gabon; Admin. Institut Français des Combustibles et de l'Energie (IFCE), AMREP; mem. Econ. and Soc. Council 1959-; Commdr. Légion d'honneur, Officier du Mérite saharien; Commdr. Mérite industriel et commercial. *Address:* 7 rue Nélaton, 75015 Paris, (Office); 2 avenue Emile-Bergerat, 75016 Paris, France (Home).

MOCZAR, Gen. Mieczysław; Polish politician; b. 25 Dec. 1913, Łódź. Polish communist guerrilla activities, East and South-East Poland, Second World War; Head of Public Security Office, Łódź 1945-48; Voivodship Gov., then Chair. Voivodship People's Council, Olsztyn 1948-52, Białystok 1952-54, Warsaw 1954-56; Minister of State Farms 1956; Deputy Minister of Home Affairs 1956-64, Minister 1964-68; Chair. of Presidium, Union of Fighters for Freedom and Democracy 1964-72, Vice-Chair. Chief Council 1972-; Deputy to Seym 1957-; mem. State Council 1969-76; Chair. Supreme Bd. of Control 1971-; mem. Polish Workers' Party 1942-48, Polish United Workers' Party 1948-, Cen. Cttee. 1956-, Sec. of Cen. Cttee. 1968-71, mem. Politburo 1970-71, Council of Ministers 1976-; Grunwald Cross 3rd Class, Order of Banner of Labour 1st Class 1959, Order of the Builder of the Polish People's Repub. 1964, and other decorations. *Publications:* Barwy walki (novel). *Address:* Najwyższa Izba Kontroli, ul. Marszałkowska 82, 00-517 Warsaw, Poland.

MOD, Péter; Hungarian politician and diplomatist; b. 21 May 1911; m.; three c.; ed. Univ. of Budapest, Univ. of Paris; volunteer, French Army 1939-40; French Resistance 1940-45; entered Hungarian diplomatic service 1947; Counsellor, Paris 1949; Dir. Municipal Library "Ervin Szabó", Budapest; Head, Near and Middle East Dept., Ministry of Foreign Affairs 1956; Head, Perm. Mission to the UN 1956-62; First Deputy Foreign Minister 1961-68; Amb. to France 1968-74; Chair. Hungarian UN Soc. 1975-; Perm. Rep. to UNESCO, Paris 1976-; Red Banner Order of Labour 1974 and many other Hungarian and foreign decorations. *Address:* Zichy Géza-u. 5, 1146 Budapest XIV, Hungary. *Telephone:* 428-391.

MODIANO, Patrick Jean; French novelist; b. 30 July 1945, Boulogne-Billancourt; s. of Albert Modiano and Luisa Colpyn; m. Dominique Zehrfuss 1970; one d.; ed. schools in Biarritz, Chamonix, Deauville, Thônes, Barbizon; Coll. in Paris. Prix Roger Nimier 1968, Prix Felix Fénéon 1969, Grand Prix de l'Académie Française 1972, Prix Goncourt 1978. *Publications:* La place de l'etoile 1968, La ronde de nuit 1969, Les boulevards de ceinture 1972, Lacombe Lucien (screen-play) 1973, Villa triste (novel) 1975, Livret de famille (novel) 1977, Rue des boutiques obscures 1978. *Address:* c/o Editions Gallimard, 5 rue Sébastien Bottin, 75007 Paris, France.

MÖDL, Martha; German singer; ed. Munich and Nuremberg Conservatoires; numerous appearances at German and foreign opera houses, and at Bayreuth Festivals 1951-; mem. Staatsoper Stuttgart 1953-. *Address:* Steindorfstrasse 6, 8 Munich 22, Federal Republic of Germany.

MOE, George Cecil Rawle, Q.C., M.A., LL.M.; Barbadian barrister-at-law and politician; b. 12 March 1932, Barbados; s. of Cecil S. and Odessa M. (née Marshall) Moe; m. Olga Louise Atkinson 1957; two s. one d.; ed. Harrison Coll., Oxford Univ. and Columbia Univ., New York; called to the Bar, Middle Temple, London; Magistrate 1960-62; Act. Asst. Legal Draftsman 1962-63; Act. Crown Counsel 1963-66; Sr. Crown Counsel 1967-71; Act. Perm. Rep. to UN 1970-71; Attorney-Gen. and Minister of Legal Affairs 1971-76, also Minister of External Afairs 1972-76; Leader of Senate 1972. *Leisure interests:* music, cricket, gardening, swimming. *Address:* Torwood, Erdiston Hill, St. Michael, Barbados. *Telephone:* 93341.

MOENECLAEY, Etienne, B.LITT., B.SC.; French civil servant; b. 14 Feb. 1897, Paris; s. of Frédéric Moeneclaey and Marie-Paule Deledicque; m. 1st Denise Masson 1925 (died 1961), 2nd Jacqueline Vignal 1962; one s. one d.; served in Army in First World War; Asst. to Insp. of Finances 1920; Insp. of Finances 1923; Asst. Sec. in Office of M. Tardieu, Min. of Public Works 1926-28, Min. of the Interior 1928-29, and Prime Min. 1929-30; various other secretarial and financial posts 1930-36; Directeur des Monnaies 1934-46; Insp.-Gen. of Finances 1946-67, Hon. Insp.-Gen. 1967-; Commissaire de Gouvernement à l'Immobilière-construction de Paris 1947 and of C.O.F.I.M.E.G. 1966-; served in French Army 1939-40; Commdr. de la Légion d'Honneur; Croix de guerre 1914-18 and 1939-45. *Address:* 3 rue Philibert Delorme, 75017 Paris, France. *Telephone:* 422-00-94

MOENS DE FERNIG, Count George; Belgian businessman; b. 1899. Chair. Industrial Cos.; Pres. Chamber of Commerce, Brussels 1946-47; Minister of Food and Imports 1947-48; Minister of Foreign Trade 1949; Gen. Commr. for Int. Exhbn., Brussels 1958; Grand Cross Orange-Nassau (Neths.); Grand Cross, Crown of Luxembourg, Grand Cross, Légion d'honneur, Commdr of the Order of Léopold, Grand Cross of the Belgian Crown; Grand Cross, Order of Merit (Italy), etc. *Address:* 66 rue Veydt, Brussels 5 "Bleuterveld", Zelem (Limbourg), Belgium.

MOERSCH, Karl; German journalist and politician; b. 11 March 1926, Calw/Württ.; s. of Karl F. Moersch; m. Waltraut Schweikle 1947; one s.; ed. Univ. of Tübingen; journalist in Ludwigshafen, Bad Godesberg (Deutscher Forschungsdienst) and Frankfurt (Ed. of Die Gegenwart) 1956-58; Head of Press Dept., FDP 1961-64; free-lance journalist 1964-; fmr. mem. Bundestag; Parl. Sec. of State, Ministry of State, Ministry of Foreign Affairs 1970-76. *Publications:* Kursrevision-Deutsche Politik nach Adenauer 1978 and numerous newspaper articles, etc. *Address:* Ludwigsburg-Ossweil, Aalener Strasse 10, Federal Republic of Germany. *Telephone:* 07141/861686.

MOERTONO, Maj.-Gen. Amir; Indonesian politician and retd. army officer; ed. Mil. School of Law, Jakarta. Staff Officer with Dept. of Defence during 1950s; attended intelligence course with Lightning Div. of U.S. Army 1959; worked with Sekber Golkar (Secr. of Functional Groups forming a political front) 1964-; Brig.-Gen. 1969; Asst. for Socio-Political Affairs, Hankam (Ministry of Defence and Security) 1969; Maj.-Gen. 1971; Chair. Golkar 1972, Gen. Chair. 1973-; retd. from Army 1972. *Address:* Sekber Golkar, Jakarta, Indonesia.

MOFFO, Anna; Italian soprano; b. Wayne, Pa.; m. Robert Sarnoff (*q.v.*) 1974; debut on Italian TV in Madame Butterfly 1957; sang at opera houses in Paris, London, Salzburg and in Italy; debut in U.S.A. with Chicago Lyric Opera Co. 1957, debut at Metropolitan Opera 1959; major roles in La Bohème, Mignon, Rigoletto, Falstaff, Madame Butterfly, The Barber of Seville, The Marriage of Figaro, La Traviata, La Juive, Turandot, Tosca, Lucia di Lammermoor, Stiffelio, Don Pasquale, Romeo et Juliette; Hansel and Gretel recording won Stereo Review record of the year and chosen by Record World as Opera of the Year; Fulbright Scholarship 1956; Dr. h.c. 1965; Philadelphia Orchestra Young Artists Award 1955; Verdi Medal, Parma 1963; First Prize for La Sonnambula, Int. TV Festival, Cannes 1958; Golden Rose, Int. TV Festival, Montreux 1964; Commdr. Order of Merit (Italy). *Leisure interests:* hockey, cooking, silver collection. *Address:* c/o Edgar Vincent Associates, 156 East 52nd Street, New York, N.Y. 10022, U.S.A. *Telephone:* (212) 752-3020.

MOGAE, Festus Gontebanye, M.A.; Botswana financial administrator; b. 21 August 1939, Serowe; s. of Dihabano and Dithunya Mogae; m. Barbara Gemma Modise 1968; two d.; ed.Moeng Secondary School, North West London Polytechnic, Univs. of Oxford and Sussex. Planning Officer, Ministry of Devt. Planning 1968-69, Ministry of Finance and Devt. Planning 1970-71, Senior Planning Officer 1971-72, Dir. Econ Affairs 1972-74; Perm. Sec. 1975-76; Alt. Exec. Sec. of IMF 1976-78, Exec. Dir. 1978-; Alt. Gov. for Botswana, IMF 1971-72, AfDB 1971-76, IBRD 1973-76; Dir. Botswana Devt. Corpn. 1971-74 (Chair. 1975-76), De Beers Botswana Mining Co. Ltd. 1975-76, Bangwato Concessions Ltd. 1975-76, B.C.L. Sales Ltd. 1975-76, Bank Botswana 1975-76; Rep., Commonwealth Fund for Tech. Co-operation 1971-. *Address:* International Monetary Fund, 700 19th Street N.W., Washington, D.C. 20431, U.S.A.

MOGAMI, Thebe David; Botswana diplomatist; b. 16 June 1942, Lerala; s. of Tsimane Rodgers Mogami and Tetang Mogami; m. Hermetina Thebe 1969; one s. one d.; ed. Univ. of Botswana, Lesotho and Swaziland, and Columbia Univ., New York. Asst. Sec., Office of the Pres. 1968-71, Under-Sec. for External Affairs 1971-72; Perm. Rep. to UN 1972-77; del. to several OAU and non-aligned Summit confs. *Address:* c/o Ministry of Foreign Affairs, Gaborone, Botswana.

MOHALE, Albert Steerforth, M.A.; Lesotho diplomatist; b. 26 April 1928, Mohale's Hoek; s. of Solomon Setlolela Mohale and Alice Majobo Mohale; m. Catherine Setlogelo 1961; three d.; ed. Pius XII Univ. Coll., South Africa and Univ. of St. Francis Xavier, Canada; fmr. teacher, Basutoland and South Africa; Lecturer and Deputy Dir. Extension Dept., Pius XII Univ. Coll. 1960-61; Co-operative Training Officer, Basutoland 1961, later Asst. Registrar of Co-operative Socs.; Supernumerary Head of Govt. Training Section 1965; Amb. to U.S.A., High Commr. to Canada and Perm. Rep. to UN 1966-69; High Commr. to Kenya 1969; Perm. Sec. Public Service Dept. 1969-70, Ministry of Agric. 1970-71, Ministry of Interior 1971; Minister of Transport and Communications 1975-76, of Agric. July 1976-77, of Educ. Youth Sports and Culture

1977–; Gen. Man. Lesotho Nat. Devt. Corpn., Special Adviser 1975-; Man. Dir. Lesotho Nat. Bus Service 1975-. *Leisure interest:* tennis. *Address:* c/o Ministry of Education, P.O. Box MS. 47, Maseru, Lesotho. *Telephone:* 3040 (Home).

MOHAMED KAMIL, Abdallah; Djibouti politician; b. 1936, Obock; ed. Inst. of Politicial Studies, Paris. Member of Union Démocratique Afar in opposition to Ali Arif Bourhan 1965-66; fmr. Sec.-Gen. of the Govt.; Pres. Conseil du Gouvernement July 1976-May 1977; Minister for the Plan and Devt. May-June 1977; Minister of Foreign Affairs July 1977-Feb. 1978; Prime Minister Feb. 1978–, also Minister of Defence; Chair. Special Comm. of Afars Jan. 1978-. *Address:* Conseil du Gouvernement, Djibouti, Republic of Djibouti.

MOHAMMED, Kamaluddin, M.P.; Trinidadian politician; b. 1927, Trinidad; s. of late Fazal Mohammed and Kajiman Khartoum; m. Saleema Muzaffar 1952; four s. two d.; ed. San Juan Church Missionary School and privately; County Councillor 1952-56; mem. Legislative Council 1956; Minister of Agriculture, Lands and Fisheries 1956-61, of Public Utilities 1961-67, of West Indian Affairs 1967-73, of External Affairs 1970-73, of Health and Local Govt. Feb. 1973-; founder mem. People's Nat. Movt., Deputy Political Leader 1971-; Leader House of Reps.; Gen. Sec. Trinidad Islamic Asscn.; Pres. World Health Assembly 1978-79. *Address:* Ministry of Health and Local Government, Port of Spain; Mohammedville, San Juan, Trinidad.

MOHAMMED ZAHIR SHAH; fmr. King of Afghanistan; b. 15 Oct. 1914; ed. Habibia High School, Istiqlal Coll. (both in Kabul), Lycée Janson-de-Sailly and Lycée of Montpellier, France; graduated with honours; attended Infantry Officers' School, Kabul 1932; married Lady Homira, 4 November 1931; children: Princess Bilqis, Prince Ahmad Shah, Princess Maryam, Prince Mohammed Nadir, Prince Shah Mahmoud, Prince Mohammed Daoud, Prince Mirvis; Asst. Minister in Ministry of National Defence 1932-33; acting Minister of Educ. 1933; crowned King 8 Nov. 1933; deposed July 1973, abdicated Aug. 1973.

MOHIEDDIN, Zakaria; Egyptian army officer and politician; b. May 1918; ed. Mil. Coll. and Staff Officers' Coll., Cairo; fmr. lecturer Mil. Coll. and Staff Officers' Coll. and Dir.-Gen. Intelligence; Minister of the Interior 1953-58; Minister of the Interior U.A.R. 1958-62, Vice-Pres. U.A.R. and Chair. Aswan Dam Cttee. 1961-62; mem. Nat. Defence Cttee. 1962-69, Presidency Council 1962-64; mem. Exec. Cttee. Arab Socialist Union 1964-69; Deputy Prime Minister 1964-65, 1967-68; Prime Minister and Minister of the Interior 1965-66. *Address:* 68 Khalifa al-Mamoun Street, Manchiet al-Bakri, Cairo, Egypt.

MOHN, Reinhard; German publisher; b. 29 June 1921; ed. high school; army service 1939-43; P.O.W. in N. Africa and U.S.A. 1943-46; Chair. of Bd., Bertelsmann A.G. 1947-; Chair. Druck-und Verlagshaus Gruner und Jahr AG. *Address:* Bertelsmann A.G., 4830 Gütersloh 1, Federal Republic of Germany.

MOHRT, Michel, L. en D.; French editor and writer; b. 28 April 1914; ed. Law School, Rennes; lawyer, Marseilles Bar until 1952; Ed. at Les Editions Gallimard 1952-; Grand Prix du roman de l'Académie française for La Prison Maritime 1962; Grand Prix de la Critique Littéraire 1970; Croix de guerre. *Publications:* Novels: Mon royaume pour un cheval 1949, La prison maritime 1961, La campagne d'Italie 1967, L'ours des Adirondacks 1969, Deux Américaines à Paris 1974; essays: Le nouveau roman américain 1956, L'air du large 1969, Les moyens du bord 1975; play: Un jeu d'enfer 1970. *Address:* c/o Editions Gallimard, 5 rue Sébastien-Bottin, 75007 Paris; 4 bis rue du Cherche-Midi, 75006 Paris, France (Home). *Telephone:* 222-42-12 (Home).

MOI, Daniel Arap; Kenyan politician; b. 1924, Sacho, Baringo district; ed. African Mission School, Kabartonjo A.I.M. School and Govt. African School, Kapsabet; teacher 1945-57; Head Teacher, Govt. African School, Kabarnet 1946-48, 1955-57, teacher Tambach Teacher Training School, Kabarnet 1948-54; African Rep. mem., Legislative Council 1957-63; Chair. Kenya African Democratic Union (KADU) 1960-61; mem. House of Reps. 1961-; Parl. Sec., Ministry of Educ. April-Dec. 1961; Minister of Educ. 1961-62, Local Govt. 1962-64, Home Affairs 1964-67; Pres. Kenya African Nat. Union (KANU) for Rift Valley Province 1966-67; Vice-Pres. of Kenya 1967-78, concurrently Minister of Home Affairs; Pres. of Kenya and Commdr.-in-Chief of the Armed Forces Oct. 1978-; mem. Rift Valley Educ. Bd., Kalenjin Language Cttee.; Chair. Rift Valley Provincial Court. *Address:* Office of the President, P.O. Box 30510, Nairobi, Kenya.

MOINI, Amir-Ghassem; Iranian mechanical engineer and politician; b. June 1925, Teheran; s. of Mahmoud and Fatemeh Moini; m. Fakhereh Sadigh 1949; three s.; ed. Teheran Univ.; Ministry of Labour and Social Affairs 1947; Teheran Labour Dept.; Deputy Head Inspection Office; Acting Head of Fars Prov. Labour Dept., later Head; Deputy Head Teheran Branch of Workers' Social Insurance Org; Deputy Dir.-Gen. Employment Services, later Dir.-Gen.; Sec.-Gen. Graduate Guidance Org.; Technical Under-Sec. Ministry of Labour and Social Affairs; M.P.; Acting Sec.-Gen. Iran Novin Party 1971; Minister of Labour and Social Affairs 1973-76, of the Interior 1976-77, of Labour and Social Affairs 1977-78; Homayoun Orders of Third and First Grade. *Leisure interests:* sports, reading.

MOINOT, Pierre, L. ÉS L.; French civil servant; b. 29 March 1920, Deux-Sèvres; m. Madeleine Sarrailh 1947; one s. four d.; ed. Univs. de Paris, Caen and Grenoble. Sr. Civil Servant 1946-; Technical Adviser, Private Office of André Malraux 1959; Dir. Theatres and Cultural Action 1960-62; French Del. to UNESCO 1966; Dir.-Gen. of Arts and Letters 1966-; Chief Adviser, Audit Office 1967, Pres. 1978; Prix du Roman de l'Académie Française, Prix Sainte-Beuve, Prix des libraries de France. *Publications:* Armes et bagages 1951, La chasse royale 1954, La blessure 1956, Le sable vif 1963, Héliogabale 1971, Mazarin 1978. *Leisure interests:* hunting, carpentry. *Address:* 44 Rue du Cherche-Midi, Paris 6e, France. *Telephone:* 260-3739.

MOISEYEV, Igor Aleksandrovich; Soviet choreographer; b. 21 Jan. 1906, Kiev; ed. Bolshoi Theatre School of Choreography; artist and ballet master at the Bolshoi Theatre 1924-39; Dir. of the Choreographic Dept. of the Theatre of People's Art 1936; was one of the organizers of the U.S.S.R. Festival of Folk Dancing; Art Dir. of the Folk Dance Ensemble of the U.S.S.R. 1937-; People's Artist of the U.S.S.R. 1953; State Prizewinner 1942, 1947, 1952; Lenin Prizewinner 1967; two Orders of Red Banner of Labour; Order of Lenin; Hero of Socialist Labour 1976 and other decorations. *Publications.* articles on choregraphy of national dance. *Address:* State Folk Dance Company of the U.S.S.R., 20 Ploshchad Mayakovskogo, Moscow, U.S.S.R.

MOJSOV, Lazar, D.IUR.; Yugoslav journalist, politician and diplomatist; b. 19 Dec. 1920, Negotino, Macedonia; s. of Dono and Efka Mojsov; m. Lijana Jankov 1945; two d.; ed. Belgrade Univ.; fmr. mem. Anti-Fascist Assembly for the Nat. Liberation of Macedonia; fmr. Public Prosecutor, Macedonia; Minister of Justice, Macedonia 1948-51; Dir. New Macedonia 1952-58; fmr. Head of Press Dept., Fed. Govt of Macedonia; mem. Yugoslav Fed. Parliament and Parliament of Macedonia; mem. Exec. Bd., Socialist League of Working People of Yugoslavia; mem. Exec. Cttee. of Cen. Cttee., Macedonian League of Communists; mem. Cent. Cttee. League of Communists of Yugoslavia; Amb. to U.S.S.R. 1958-61; Dir. Inst. for Study of Workers' Movements 1961-62; Dir. and Chief Ed. Borba 1962-64; Amb. to Austria 1967-69; Perm. Rep. to UN 1969-74; Deputy Fed. Sec. for Foreign Affairs 1974-; Pres. 32nd UN Gen. Ass. 1977; Order of Merit for Exceptional Achievements First Class, Order of Merit for Services to the Nation, First and Third Class, Order of Brotherhood and Unity. *Publications:* The Bulgarian Working Party (Communist) and the Macedonian National Question 1948, Vasil Glavinov: First Propagator of Socialism in Macedonia 1949, Concerning the Question of the Macedonian National Minority in Greece 1954. *Leisure interest:* philately. *Address:* Ministry for Foreign Affairs, Kn. Miloša 24, Belgrade, 11000, Yugoslavia.

MOKADDEM, Sadok; Tunisian politican and diplomatist; b. 1914; ed. Lycée Carnot, Tunis, Faculty of Sciences, Montpellier and Faculty of Medicine, Paris. Physician, Tunis; mem. Neo-Destour Party 1934-, mem. Political Bureau 1952-; Sec. of State for Justice 1954-55, for Public Health 1955; Deputy to Constituent Ass. 1956-59; Amb. to Egypt 1956-57; Sec. of State for Foreign Affairs 1957-62; Amb. to France 1962-64; Pres. Nat. Assembly 1964-69, 1969-; Grand Cordon of Nat. Order of Independence and of the Republic; several foreign decorations. *Address:* National Assembly, Tunis, Tunisia.

MOKRZYŃSKI, Jerzy; Polish architect; b. 22 Sept. 1909, Rezeszów; s. of Joseph Mokrzyński and Helena Tabaczkowska; m. Mary Pelc-Armolowicz 1945; ed. Warsaw Polytechnic. Sr. Designer in Warsaw Design Office of Gen. Architecture 1948-; mem. Polish Asscn. of Architects (SARP) 1936-, Vice-Pres. Cen. Bd. 1952-56; mem. Coordination Cttee. of Competition Judges, Collective Judge and mem. SARP Council for many years; mem. ZAIKS Asscn. of Authors 1947-; First Prizes (with W. Klyszewski (*q.v.*) and E. Wierzbicki (*q.v.*) for: Bank of Investment, Poznań, Univ. in Łódź, Labour Party Building in Warsaw, Puppet Theatre in Bialystok, Museum of Contemporary Art, Skopje, Yugoslavia, Railway Station in Katowice, Expositions Pavilion, Poznań and many others; Gold

Award for the Rebuilding of Warsaw 1958; Hon. Award, ZAIKS; Hon. Prize, SARP 1968, of Katowice and Szczecin Branch of SARP 1972, 1973; Officer's Cross, Order of Polonia Restituta 1957; Order of Banner of Labour, 2nd Class 1969; State Prize, 3rd Class 1951, 2nd Class 1955, 1st Class 1974. *Leisure interests:* travel and nature. *Address:* Ul. Marszałkowska 140 m. 18, 00-061 Warsaw, Poland. *Telephone:* 262683.

MOLAPO, Charles Dube, LL.B.; Lesotho politician; b. 25 Dec. 1918, Leribe District; ed. Cape Town Univ. Attorney-at-Law, Basutoland 1954-64, subsequently Sec.-Gen. Basutoland Nat. Party and mem. Legislative Assembly; nominated to Senate 1965; Minister of Devt., Commerce and Industry 1965-67; High Commr. in Kenya and Roving Amb. in Africa 1968-69; Minister of Health, Educ. and Social Welfare 1971-74, of Justice 1974-75, of Foreign Affairs Nov. 1975-. *Address:* Ministry of Foreign Affairs, Maseru, Lesotho.

MOLAPO, Mooki Vitus; Lesotho diplomatist; b. 2 June 1937; m.; four c.; ed. Inkamana High School, Natal, Pius XII Coll., Univ. of South Africa, Univ. of Dar es Salaam, and Univ. of West Indies, Trinidad and Tobago; teacher, Maseru secondary school 1965; Information Officer, Dept. of Information, Maseru 1966; chief announcer, Radio Lesotho 1966-67; First Sec. Lesotho Embassy, Washington 1967-70; Chief of Protocol, Ministry of Foreign Affairs 1970-71; Perm. Rep. to UN 1971-74, 1976-78; del. to UN Gen. Assembly 1967-75, and rep. at many other int. confs.; Amb. to Iran 1974-76, also accred. to Romania, Yugoslavia, the Vatican City, United Arab Emirates; Minister of Commerce and Industry April 1978-. *Publications:* The Dawns are Quiet Here 1975. *Address:* Ministry of Commerce and Industry, Maseru, Lesotho.

MOLDOVAN, Roman; Romanian politician and economist; b. 14 Dec. 1911, Daia, Mures County; s. of Elisei and Ana Moldovan; m. Elena Moldovan 1938; two d.; Univ. Prof.; Corresp. mem. Acad. of Socialist Repub. of Romania 1963-; Deputy to Grand Nat. Assembly; mem. Cen. Cttee. of Romanian CP 1965-; Chair. State Planning Cttee. 1965; Chair. Nat. Council of Scientific Research and Deputy Chair. Council of Ministers 1965-67; Chair. State Cttee. for Price Fixing 1967-69; Vice-Pres. Econ. Council 1969-71; Vice-Pres. Acad. of Social and Political Sciences 1970-; Chair. Romanian Chamber of Commerce and Ind. 1972-77. *Publications include:* Formation and Movement of Capital in Romania 1940, Planned Management of National Economy in Romanian People's Republic 1959, Logic, Methodology and Philosophy of Science 1973, Les changements structuraux économiques et sociaux dans le processus d'édification du socialisme 1974; Co-author: Romania's Economic Development 1944-1974, Romania's Industry 1944-1964. *Leisure interests:* mountains, tourism. *Address:* Romanian Chamber of Commerce and Industry, Bd. Nicolae Bălcescu 22, Bucharest, Romania. *Telephone:* 15-24-29.

MOLDT, Ewald; German diplomatist; b. 22 April 1927, Greifswald; ed. Deutsche Akademie fur Staats- und Rechtswissenschaften; mem. Socialist Unity Party (SED) 1946-; G.D.R. diplomatic service 1952-; 1st Sec., G.D.R. Embassy in Romania 1958-59, Amb. 1965-71; Counsellor, Embassy in Poland 1959-63; Head of Press Section, Ministry of Foreign Affairs 1963-65; Deputy Minister of Foreign Affairs 1970-; Chair. G.D.R. UNESCO Comm. 1973-; Head G.D.R. Perm. Mission in Fed. Repub. of Germany Sept. 1978-; Verdienstorden in Silber und Bronze and other decorations. *Address:* Permanent Mission of the German Democratic Republic, Bonn, Federal Republic of Germany.

MOLINA BARRAZA, Col. Arturo Armando; Salvadorian army officer and politician; b. 6 Aug. 1927, San Salvador; s. of Mariano Molina and Matilde Barraza de Molina; m. María Elena Contreras de Molina; four s. one d.; ed. Escuela Militar, El Salvador, Escuela Superior de Guerra, Mexico, Escuela de Infanteria, Spain. Section and Co. Commdr., Escuela Militar; Artillery Garrison, Asst. Dir. Escuela de Armas, Section and Dept. Chief, Staff HQ; Del. 6th Conf. of American Armed Forces, Peru 1965, 7th Conf. Buenos Aires; Gen. Co-ordinator, 2nd and 3rd Confs. of Defence Council of Cen. American States; Dir. Exec. Comm. for Shipping; Dir. Nat. Cttee. of Caritas, El Salvador; Pres. of El Salvador 1972-77. *Address:* c/o Palacio Presidencial, San Salvador, El Salvador.

MOLINA QUESADA, José Luis, LIC. EN DER.; Costa Rican lawyer and diplomatist; b. 23 July 1926, San José; ed. Univ. de Costa Rica; one of the founders of Partido Social Democrático; mem. Nat. Political Cttee. of Partido de Liberación Nacional, Legal Adviser, Ministry of Public Educ. 1948-49; Deputy Legislative Assembly 1953-57, 1966-70, Pres. 1969-70; Dir. Social Security Fund 1957, 1962; Prof. of Constitutional Law and of History of Costa Rican Public Admin., Univ. de Costa Rica 1964-; Perm. Rep. to UN 1970-73. *Address:* c/o Ministerio de Relaciones Exteriores, Apartado 10027, San José, Costa Rica.

MOLINARI, Ricardo E.; Argentine writer; b. 20 March 1898; ed. secondary school; has received every poetry prize in Argentina. *Publications include:* El Huésped y la Melancolía 1946, Días donde la Tarde es un Pájaro 1954, Unida Noche 1957, El Cielo de las Alondras y las Gaviotas 1963, Una sombra antigua Canta 1966, La Hoguera Transparente 1970, La Escudilla 1973, Las Sombras del Pájaro Tostado (complete works) 1974. *Address:* Julián Alvarez 2092, Buenos Aires, Argentina.

MÖLLER, Alex; German politician, businessman and journalist; b. 26 April 1903, Dortmund; s. of Alexander and Charlotte Möller; widower; mem. SPD 1922-; mem. Landesparlament, Stuttgart 1946-61; mem. Bundestag 1961-76; Deputy Chair. Parliamentary Party, SPD 1964-69, 1972-76; Minister of Finance 1969-71; mem. Admin. Bd., Süddeutscher Rundfunk, Stuttgart; Chair. Advisory Bd., Bavaria Atelier GmbH until 1969, 1971-, Rundfunkwerbung GmbH, Stuttgart; Prof. Dr. h.c., Dr. Ing. e.h. (Univ. Freiburg and Technische Hochschule, Karlsruhe); Grosses Bundesverdienstkreuz mit Stern und Schulterband; First Class Award, German Red Cross. *Publications:* Unruhige Zeiten, Währung und Aussenpolitik (in German and English), Kommentar zum Gesetz zur Förderung der Stabilität und des Wachstums der Wirtschaft. *Leisure interests:* sport and music. *Address:* 75 Karlsruhe 51, Märchenring 50, Federal Republic of Germany. *Telephone:* 0721/1883658.

MØLLER, Christian, D.PHIL.; Danish physicist; b. 22 Dec. 1904, Notmark; s. of Jørgen Hansen Møller and Marie Terkelsen; m. Kirsten Pedersen 1931; one s. one d.; ed. Univs. of Copenhagen, Rome and Cambridge. Lecturer, Copenhagen Univ. 1933-40, Dozent 1940-43, Prof. of Mathematical Physics 1943-75, Dean of Faculty 1947-48; Dir. Theoretical Study Group, CERN (European Council for Nuclear Research) 1954-57, mem. Scientific Policy Cttee. 1959-72; Dir. Nordita (Nordic Inst. for Theoretical Atomic Physics) 1957-71; mem. Royal Danish Acad. of Sciences, Royal Norwegian Acad. of Science, Kungl. Fys. Selsk, Swedish Acad. of Science; Hon. D. Phil. (Åbo Academi) 1968; awarded Ole Romer Medal 1966, H. C. Ørsted Medal 1970. *Publications:* The Theory of Relativity 1952; papers on atomic theory and relativity. *Leisure interest:* music. *Address:* Frølichsvej 42a, 2920 Charlottenlund, Denmark. *Telephone:* (01) 64-46-90.

MØLLER, Maersk Mc-Kinney; Danish shipowner; b. 13 July 1913, Copenhagen; s. of Arnold Peter and Chastine Estelle Mc-Kinney Møller; m. Emma Marie Neergaard Rasmussen 1940; three d.; Partner A. P. Møller 1940-; Chair. Steamship Co. of 1912 Ltd., Steamship Co. Svendborg Ltd., Steamship Co. of 1960 Ltd., Maersk Line A/S, Odense Steel Shipyard Ltd., The Tanganyika Planting Co. Ltd., Dansk Borelskab A/S, Dansk Industri Syndikat A/S; mem. Int. Business Machines Corpn. Inc.; Chair. Danish Shipping Bd. *Address:* Kongens Nytorv 8, DK-1098 Copenhagen K, Denmark. *Telephone:* 01-14 15 14.

MØLLER-CHRISTENSEN, Peter Vilhelm, M.D.; Danish professor of medical history, osteo-archaeologist and writer; b. 28 June 1903, Haslev, Sealand; s. of N. Chr. Christensen and Marie Møller; m. 1st Emmy Stamer 1930, 2nd Martha Nielsen 1966; one s. two d.; ed. Haslev Gymnasium and Univ. of Copenhagen; medical practice 1932-56; School Medical Officer 1956-64; Fellow of Univ. of Copenhagen 1963-, Prof. of Medical History and Dir. of Medical-Historical Museum 1964-73; mem. Royal Nord. Oldskriftass, 1936–, Int. Assen. of Leprology 1953-, Danish Odontological Soc. 1954-, Danish Medical History Soc. 1935-, Pres. 1965-; ed. Centaurus 1964; Berliner Gesellschaft f. Geschichte der Medizin E.V. 1965; Corresp. mem. Int. Acad. History of Medicine 1970, Danish Otolaryngological Soc. 1971, Aachener Geschichtsverein 1972; M.D. h.c. (Univ. of Bergen) 1970; Münchener Vereinigung für Geschichte der Medizin 1973; numerous decorations. *Publications:* The History of the Forceps (thesis) 1938, Ten Lepers from Naevsted in Denmark 1953, Bone Changes in Leprosy 1961, Encyclopedia of Bible Creatures 1965, Osteoarchaeological Excavations in Medieval Danish Abbeys and Leprosy Hospital Cemeteries 1935-75, Leprosy Changes of the Skull 1978. *Leisure interests:* archaeology, travelling. *Address:* 42 Østervang, 4000 Roskilde, Denmark (Office). *Telephone:* (03)-35-57-22 (Home).

MOLLOY, Robert M., B.COMM.; Irish politician; b. July 1936, Salthill, Galway; s. of Michael Edward and Rita (Stanley) Molloy; m. Phyllis Barry 1972; one s. two d.; ed. St. Ignatius Coll., Univ. Coll., Galway; mem. House of Reps. (Dáil Éireann) 1965-, House Cttee. of Public Accounts 1965-69, House Cttee. on Constitution 1967; Parl. Sec. to Minister for Educ. 1969-70; Minister for Local Govt. 1970-73, for Defence July 1977-; [redacted] Galway Co. Council 1967-70, 1974-77, Galway Borough Council 1967-70; Mayor of Galway 1968-69; Chair. Galway Harbour Bd. 1974-77; mem. Governing

Body, Univ. Coll., Galway 1977; Fianna Fáil. *Leisure interests:* swimming, rowing, sailing. *Address:* 1 Dalton Drive, Salthill, Galway, Ireland. *Telephone:* 091-21765.

MOLNÁR, Antal; Hungarian musician; b. 7 Jan. 1890, Budapest; s. of Dr. Moritz (Maurice) Molnár and Malvina Frankel; m. Marguerite Zechmeister 1927; ed. Budapest High School of Music; mem. Waldbauer-Kerpely String Quartet 1910-13; teacher in Budapest 1913-19; winner Francis Joseph Prize for composition 1914; mem. Dohnányi-Hubay-Kerpely-Molnár Piano Quartet 1916-18; Sec. Music Section of Art and Science Fed. 1918; Prof. High School of Music, Budapest 1919-59; Dir. Pedagogic Soc. of Music 1931-34; Leader-Dir. Syndicate of Musicians 1946; Kossuth Prize 1957; composer and critic; Labour Order of Merit 1970; "Eminent Artist" 1971. *Publications:* A zenemüvészet könyve 1922, Az új zene 1925, A Zenetörténet szociológiája 1923, Bevezetés a zenekulturába, Jazzband 1928, Fizika és muzsika 1930, Liszt esztétikája 1936, A Ma zenéje 1937, Zeneesztétika 1938, Azene és ■■ élet 1946, Az új muzsika szelleme 1948, Examples for Romantic Harmony 1953, Schubert Emlékezete 1954, essays on Hungarian music 1955-57, Repertory of Baroque music 1958, Brahms 1959, Collection of Essays 1961, 1963, The World of the Composer 1969, Practical Aesthetics of Music 1971, Memoirs 1974. *Leisure interests:* concerts, books, theatre, travel. *Address:* Karinthy-ut 14, Budapest XI, Hungary. *Telephone:* 260-665.

MOLNAR-C. Pál; Hungarian painter and engraver; b. 28 April 1894, Battonya; s. of József Molnár and Jeanne Contat; m. Alice Gstettner 1931; two d.; ed. Ecole des Beaux Arts, Budapest; exhibited Lausanne 1919, Budapest 1927, Venice Biennale 1930, 1932, 1934, etc.; awarded Prix de Rome 1928, Gold Medal, Milan 1932 and 1935, Grand Prix and Gold Medal, Paris Int. Exhbn. 1937, and many other prizes; represented in Nuremberg Municipal Museum, Rome, Venice, Chicago, New York, Edinburgh, Laing Art Gallery, Newcastle, Budapest, etc.; as "M-C.P." has illustrated many books, including Angyali Udvözlet, The Little Flowers of St. Francis, Coriolanus, Cyrano de Bergerac, Coriolan, Autobiography of Benvenuto Cellini 1957; executed decorative panels for Paris Universal Exposition, and monunmental frescoes in various churches and buildings; Hon. mem. Accademia Adriatic d'Italia, Österreichischer Künstler Bund; Labour Order of Merit, Golden Degree 1974. *Leisure interests:* reading, handiwork, inventing. *Address:* Ménesi ut. 63, 1118 Budapest XI, Hungary. *Telephone:* 860-833.

MOLOMJAMTS, Demchigiyn; Mongolian politican; b. 24 Nov. 1920; ed. Inst. of Finance and Econs., U.S.S.R.; Deputy Minister of Finance 1946-48, Minister 1954-57; Second Deputy Chair. Council of Ministers 1957-59; Chair. State Planning Comm. 1959-60; Chair. State Cttee. for Foreign Econ. Relations 1963-65; Perm. Rep. to CMEA (Comecon) 1963-65; Deputy to People's Great Hural (Assembly); Cand. mem. Political Bureau of Mongolian People's Revolutionary Party (MPRP) Cen. Cttee. 1958-59, mem. Political Bureau 1959-; Sec. MPRP Cen. Cttee. 1964-. *Address:* Central Committee of the Mongolian People's Revolutionary Party, Ulan Bator, Mongolia.

MOLOTOV, Vyacheslav Mikhailovich (pseudonym of V. M. Skryabin); retd. Soviet politician and diplomatist; b. 9 March 1890; ed. St. Petersburg (now Leningrad) Polytechnic; organized Bolshevik student groups and worked on Zvezda and Pravda; mem. Petrograd Soviet Exec. Cttee. Feb. 1917; mem. Petrograd Mil. Revolutionary Cttee. Oct. 1917; held Party posts in Petrograd, Nijni Novgorod, Donbass 1918-20; Sec. Cen. Cttee. of CP of the Ukraine 1920; Cand. mem. Politburo, Cen. Cttee. of CPSU 1921-26, mem. 1926-53; mem. Presidium of Exec. Cttee. of the Communist Int. 1928-34; Chair. Council of People's Commissars 1930-41, Deputy Chair. Council of Ministers of U.S.S.R. 1941-57; Deputy Chair. State Cttee. of Defence 1941-45; mem. Cttee. for drafting reforms to Constitution 1935; Commissar, later Minister, for Foreign Affairs 1939-49; Pres. Moscow Del. Anglo-Soviet Talks 1941; First Vice-Chair. Council of Ministers and Minister for Foreign Affairs 1949-56; Minister of State Control 1956-57, mem. Presidium of Cen. Cttee. of CPSU until 1957; Amb. to Mongolian People's Republic 1957-60; Perm. Rep. U.S.S.R. Int. Atomic Energy Agency, Vienna Aug. 1960-61; removed from CPSU 1962; now retd.; Hon. mem. U.S.S.R. Acad. of Sciences; awarded Order of Lenin, Hammer and Sickle Gold Medal and title Hero of Socialist Labour. *Publications (in Russian):* The Party's Policy in the Villages, Elections to the Soviets, Problems of the Working Class, On the Lessons of Trotskyism, etc. *Address:* c/o Ministry of Social Security, 14 Shabolovka, Moscow, U.S.S.R.

MOLSTAD, Melvin Carl, PH.D.; American university professor; b. 18 Nov. 1898, Spring Valley, Minn.; s. of Kleber G. Molstad and Josephine (Sorenson); m. Barbara Van Tuyl 1924; one d.; ed. Carleton Coll. Mass. Inst. of Technology and Yale Univ.; Jr. Chemist, Dept. of Agric., Fixed Nitrogen Lab. 1920-21, Chemical Engineer 1923-26; Instructor Yale Univ. 1926-29, Asst. Prof. 1931-39, with Du Pont Co. 1929-31; Assoc. Prof. Univ. of Pa. 1939-42, Prof. of Chemical Eng. 1942-51, Dept. Chair. 1951-61, Prof. Emer. 1969-; Consultant, Atlantic Refining Co. 1941, Davison Chemical Co. Baltimore 1942-; Fulbright Prof., Trondheim Tech. Univ. 1954-55, Univ. of Tokyo 1961-62; Ford Foundation Prof. Dartmouth Coll. 1967; Fulbright Prof. Tech. Univ. of Helsinki 1969; mem. American Soc. of Eng. Educ.; Hon. mem. A.I.Ch.E., A.C.S. *Leisure interests:* piano and pipe organ. *Address:* University of Pennsylvania, Towne Building, Philadelphia, Pa. 19104; 224 West Tulpehocken Street, Philadelphia, Pa. 19144, U.S.A. (Home). *Telephone:* 215-594-7953 (Office); 215-842-1454 (Home).

MOLYAKOV, Nikolay Ivanovich; Soviet diplomatist; b. 16 Dec. 1910, Pokrov, Moscow Region; ed. Leningrad Herzen Pedagogic Inst.; mem. CPSU 1939-; First Sec., Soviet Embassy, Washington 1944-46; First Sec., Soviet Mission to UN 1946-48; First Sec., Asst., Deputy Head of U.S. Dept. of Ministry of Foreign Affairs, Moscow 1948-53; Counsellor, Embassy at Oslo 1954-57; Deputy Head, Dept. for Int. Orgs. of Ministry of Foreign Affairs 1957-61, Head of South East Asia Dept. 1961-62; Perm. Soviet Rep. to UN and other Int. Orgs. in Geneva 1962-66; Head, Consular Dept., Ministry of Foreign Affairs 1966-; Order of Red Banner of Labour and other decorations. *Address:* Ministry of Foreign Affairs of the U.S.S.R., 32-34 Smolenskaya-Sennaya Ploshchad, Moscow, U.S.S.R.

MOMIGLIANO, Arnaldo Dante, D.LITT., LITT.D., D.H.L., D.PHILOS., F.B.A.; Italian historian; b. 5 Sept. 1908, Caraglio, Cuneo; s. of Riccardo Momigliano and Ilda Levi; m. Gemma Segre 1932; one d.; ed. Univs. of Turin and Rome; Prof. Extraordinary, Univ. of Rome 1932-36; Prof. Univ. of Turin 1936-39, Supernumerary Prof. 1945-64; research work, Univ. of Oxford 1939-46; Reader, Univ. of Bristol 1947-51; Supernumerary Prof., Scuola Normale Superiore, Pisa 1964-; Prof. of Ancient History, Univ. Coll., 1959, London 1951-75; Alexander White Prof., Univ. Chicago 1959, 1975-78, 1979-(81); Sather Prof. in Classics, Univ. of Calif. 1962, Gray Lecturer, Cambridge Univ. 1963; Lauro de Bosis Lecturer and Visiting Prof., Harvard Univ. 1965, Jackson Lecturer 1968; Jerome Lecturer, Univ. of Mich. 1971-72; Trevelyan Lecturer, Cambridge Univ. 1973; Flexner Lecturer, Bryn Mawr 1974; Northcliffe Lecturer, Univ. of London 1977; Scholar, Dumbarton Oaks, Harvard Univ. 1972; Assoc. mem. All Souls Coll., Oxford 1975-; Efroymson Lecturer, Hebrew Union Coll. 1978; Grienfield Lecturer, Oxford Univ. 1978-(80); Co-Ed. Rivista Storica Italiana 1948-; Socio Nazionale Acad. dei Lincei, Arcadia, Accad. Scienze Torino; Corresp. mem. German Archaeological Inst.; Foreign mem. Royal Dutch Acad., Institut de France, American Acad. of Arts and Sciences, American Philosophical Soc. etc.; Hon. mem. American Historical Asscn.; Hon. Fellow, Univ. Coll. London, Warburg Inst. London; several hon. degrees; Feltrinelli Prize Acad. Lincei 1960; Kaplun Prize, Univ. of Jerusalem 1975; Hon. K.B.E. *Publications:* La composizione della storia di Tucidide 1929, Prime linee di storia della tradizione maccabaica 1931, 1968, L'opera dell'imperatore Claudio 1932, 1961, Filippo il Macedone 1934, chapters in Cambridge Ancient History X 1934, Contributo alla Storia degli Studi Classici 1955, Secondo Contributo alla Storia degli Studi Classici 1960, The Conflict Between Paganism and Christianity in the Fourth century (ed) 1963, Terzo Contributo alla Storia degli Studi Classici 1966, Studies in Historiography 1966, Quarto Contributo alla Storia degli Studi Classici 1969, The Development of Greek Biography 1971, Quinto Contributo alla Storia degli Studi Classici 1975, Alien Wisdom 1975, Essays on Historiography 1977. *Leisure interests:* travelling, music, walking. *Address:* University of Chicago, Department of Classics, Chicago 60637, U.S.A.; All Souls College, Oxford, England.

MOMIN, Abdul; Bangladesh diplomatist; b. 1 March 1921; ed. Presidency Coll., Calcutta, Calcutta Univ.; Administrative Service, Pakistan 1946-50; Officer on Special Duty, Ministry of Foreign Affairs, Karachi 1950-51; Third Sec., Rangoon 1951-53; Vice-Consul, Akyab (Sittwe, Burma) 1953-54; Second Sec., Washington, D.C. 1954-57; Political Sec., Baghdad Pact Secretariat, Iraq 1957, Under-Sec., Ministry of Foreign Affairs 1957-58; Asst. High Commr., Shillong, India 1958-61; First Sec., Brussels 1962-63; Chargé d'affaires, Lisbon 1964-67; Dir. Ministry of Foreign Affairs 1967-70; Amb. to Argentina 1970-71; Sec. Ministry of Foreign Affairs, Bangladesh 1972; High Commr. in Canada 1972-76; Amb. to People's Repub. of China March 1976-, concurrently to Democratic People's Repub. of Korea Jan. 1977-; Amb. Designate to Viet-Nam 1977-. *Address:* Embassy of Bangladesh, 42 Kuang Hua Lu, Peking, People's Republic of China.

MOMMSEN, Ernst Wolf; German business executive; b. 12 May 1910, Berlin; s. of Dr. Ernst Mommsen and Clara Weber; m. Eva Connor; one s.; ed. Ruprecht-Karl-Universität, Heidelberg, Christian-Albrechts-Universität, Kiel and Humboldt-Universität zu Berlin; man. post, German Reich Industrial Assen. 1939; Ministry of Armament and War Production 1940-45, finally Head of Cen. Div.; in Electrical Industry 1946-48; mem. Bd. of Man. Iron and Steel Fed. 1948-52; Man. Klöckner-Drahtindustrie 1952; mem. Klöckner-Werke AG, Duisburg 1952; mem. Bd. of Man. Rheinische Röhrenwerke AG 1954, and Phoenix-Rheinrohr AG Vereinigte Hütten- und Röhrenwerke, Düsseldorf after merger of Hüttenwerke Phoenix AG with Rheinische Röhrenwerke AG 1954-65, Pres. Phoenix-Rheinrohr Vereinigte Hütten- und Röhrenwerke 1965-, now Thyssen Röhrenwerke AG; Chair. Bd. of Dirs. Thyssen Rohrleitungsbau GmbH, Düsseldorf, Thyssenrohr Int. GmbH, Düsseldorf, Deutsche Fina GmbH, Frankfurt, Stahlform Berlin GmbH, Berlin; Vice-Chair. Bd. of Dirs. Thyssen Steel and Pipe (Great Britain) Ltd., London, Blohm & Voss AG, Hamburg, Handelsunion AG, Düsseldorf; Chair. Man. Bd. Friedrich Krupp GmbH 1973-75; mem. Supervisory Bd. 1975; Chair. Supervisory Bd., Saarbergwerke AG; mem. Science Council, Advisory Bd. for Foreign Trade of the Federal Minister of Econs. 1969-72; Pres. Productivity Centre of German Economy; Pres. or mem. various industrial orgs.; Dr.rer.pol. h.c. (Munich). *Publications:* The Problem of Competition in the Steel Industry (with von Grosse and Wessels) 1954, Creation of an Elite in the Economy 1955, Planning without Planification 1962, Structural Changes in the Raw Material Supply of the European Iron and Steel Industry 1962, The Policy of Internal Management Development 1962, Future of Capitalism 1967, Germany in the Upheaval of World Economy 1968. *Leisure: interests:* literature, classical music, history. *Address:* Düsseldorf, Orsoyer Strasse 58, Federal Republic of Germany (Home). *Telephone:* 434215 (Home).

MONDALE, Walter Frederick, LL.B.; American lawyer and politician; b. 5 Jan. 1928, Ceylon, Minn.; s. of Rev. and Mrs. Theodore Sigvaard Mondale; m. Joan Adams 1955; two s. one d.; ed. Minnesota public schools, Macalester Coll., Univ. of Minnesota and Univ. of Minnesota Law School; Attorney-General, Minn. 1960-64; Senator from Minnesota 1964-77; Vice-Pres. of the U.S. 1977-; fmr. mem. many civic and professional orgs.; Democrat-Farmer-Labor. *Publication:* The Accountability of Power: Towards a Responsible Presidency. *Address:* Office of the Vice-President, The White House, 1600 Pennsylvania Avenue, Washington, D.C. 20501, U.S.A.

MONDAY, Horace Reginald, C.B.E.; Gambian diplomatist; b. 26 Nov. 1907, Bathurst (now Banjul); s. of late James Thomas Monday and late Rachel Davies; m. Wilhelmina Roberta Juanita 1932; one s.; ed. Methodist Mission Schools, Bathurst and correspondence course (London School of Accountancy); Clerk 1925-48; Asst. Accountant, Treasury 1948-52; Accountant and Storekeeper, Marine Dept. 1953-54; Accountant-Gen. to the Gambia Govt. 1954-65; Chair. Gambia Public Service Comm. 1965-68; Dir. Gambia Currency Bd. 1964-68; High Commr. to U.K. 1968-71; Chair. Banjul City Council 1971-79, Gambia Utilities Corpn. 1972-76; M.P. for Banjul Central 1977-; Gov. Gambia High School 1964-68; Pres. Gambia Red Cross Soc. 1967-68; Commdr. Nat. Order of Repub. of Senegal. *Leisure interest:* reading. *Address:* Rachelville, 24 Clarkson Street, Banjul, The Gambia.

MONDJO, Nicolas; Congolese diplomatist; b. 24 June 1933, Fort Rousset; ed. Inst. des Hautes-Etudes d'Outre Mer, Paris; fmr. Dir. of Admin., Ministry of the Interior; Amb. to France; Perm. Rep. to EEC; Minister of Foreign Affairs 1968-69; Dir. of Cabinet of Pres. of Repub. 1969-70; Perm. Rep. to UN June 1970-; del. to XXII and XXIII sessions of UN Gen. Assembly; del. to various int. confs. *Address:* Permanent Mission of the People's Republic of the Congo to United Nations, 14 East 65th Street, Suite 1703, New York, N.Y. 10021, U.S.A.

MONELLI, Paolo, D.IUR.; Italian journalist and novelist; b. 15 July 1894; ed. Bologna Univ.; officer of "Alpini" 1915-21; P.O.W. 1917-18; mem. of mil. missions 1919-21; Vienna corresp. Gazzetta del Popolo 1921-22; Berlin corresp. La Stampa, with special missions to the Near East, Spitzbergen, etc. 1922-26; Special corresp. Corriere della Sera 1926-29, La Stampa 1929-35; war corresp. Ethiopa 1935-36; Dir. Paris office Corriere della Sera 1936-39, war corresp. 1940-43; imprisoned by Fascist govt. 1943; Lieut.-Col. Corpo Italiano di Liberazione 1944-45; Special corresp. La Stampa 1946-67; Ed. and Special corresp. Corriere della Sera 1967; contributor to Il Mondo, Tempo, Espresso, France Soir; Saint Vincent Great Prize for Journalism 1960, Great Prize for Journalism, Accademia della Crusca, Florence 1965; Gold Medal of Italia Nostra for defence of ancient monuments and landscape; four Medaglie al valore, Croix de guerre belge, etc.; *Publications:* Le Scarpe al sole 1921, 1955, 1965 (English and American trans. Toes Up, French trans. Les pieds devant, also film), Questo mestieraccio 1928, La guerra è bella ma è scomoda 1929, 1951, Io e i tedeschi 1929, Barbaro dominio 1933, Il ghiottone errante 1935, 1947, Roma 1943 1945, Naja parla 1947, Mussolini piccolo borghese 1950 (English and American trans. Mussolini: Intimate Life of a Dictator, also Dutch trans.), Nessuna nuvola in cielo 1957, Avventura nel primo secolo 1958, 1964, Il vero bevitore 1963, Ombre Cinesi 1965, etc. *Address:* Via Venti Settembre 3, 00187 Rome, Italy.

MONGO BETI (pseudonym of Alexandre Biyidi-Awala); Cameroonian writer and teacher; b. 1932, Mbalmayo; s. of Oscar Awala and Régine Alomo; m. Odile Marie Jeanne Lebossé 1963; two s. one d.; ed. Lycée de Yaoundé, Univ. d'Aix-en-Provence and Sorbonne, Paris; exiled from Cameroon, became teacher and writer in Paris; undertook research in sociology, Paris Univ. 1957-59; currently Prof. Lycée Corneille, Rouen; founder of bi-monthly journal, Peuples Noirs-Peuples Africains 1978; Prix Sainte-Beuve for Mission Terminée 1958. *Publications:* Le pauvre Christ de Bomba 1956 (trans. in English), Mission terminée 1957 (trans. in English), Le roi miraculé 1958 (trans in English), Main basse sur le Cameroun, autopsie d'une décolonisation (political essay) 1972 (banned in France), Remember Ruben 1974, Perpétue et l'habitude du malheur 1974, La ruine presque cocasse d'un polichinelle (novel) 1979. *Address:* 6 rue d'Harcourt, 76000 Rouen, France. *Telephone:* (35) 70 14 56.

MONGUNO, Alhaji Shettima Ali; Nigerian educationist and politician; b. 1926, Borno; s. of Rahma and Fanna Monguno; m. Ashe Meta 1948; two s. five d.; ed. Bornu Middle School, Bauchi Teacher Training Coll., Katshina Higher Coll., Nigerian Coll. of Arts, Science and Technology, Zaria and Univ. of Edinburgh; Native Authority Educ. Sec., Northern Nigeria 1959; Councillor for Educ., Borno Native Authority Council; mem. Fed. Assembly 1959-; Fed. Minister of Int. Affairs 1965-66; Fed. Commr. for Industries 1967-71, for Mines and Power 1971-75; del. from XVI to the XXV sessions of UN Gen. Assembly and other int. confs.; Pres. of OPEC 1972; Councillor for Natural Resources and Co-operatives, Borno Local Authority 1975-; Pro-Chancellor and Chair., Gov. Council of Calabar Univ. 1976-(80); Chair. Metropolitan Council 1977-; mem. Constituent Assembly 1977-78; active in many voluntary orgs.; various int. awards. *Leisure interests:* reading, cycling. *Address:* Metropolitan Council, P.M.B. 1079, Maiduguri, Nigeria. *Telephone:* 2089 (Home).

MONICELLI, Mario; Italian film director; b. 16 May 1915; ed. Università degli Studi, Pisa; fmr. Asst. to Pietro Germi; writer of film Riso Amaro; film dir. 1949-; Golden Lion, Venice Film Festival; Silver Medal, Berlin Film Festival; Silver Laurel Medal, San Francisco Film Festival. *Films include:* Guardie e Ladri 1948, The Big Deal of Madonna Street 1955, The Great War 1958, The Organiser 1960, Casanova '70 1963, L'Armata Brancaleone 1965. *Address:* Piazza Teatro Pompeo 19, Rome, Italy.

MÖNKEMEYER, Karl, DR.RER.NAT.; German business executive; b. 24 July 1916, Osterwieck/Harz; s. of Carl and Johanna (née Träger) Mönkemeyer; m. Ursula Kümpel 1943; two s.; ed. Humanistisches Gymnasium, Wernigerode, Bergakademie Clausthal and Univ. of Munich; joined Chemische Werke Hüls A.G. 1952, Deputy mem. Man. Bd. 1964-66, mem. 1966-70, Deputy Chair. 1970-72, Chair. June 1972-; Hon. Prof. Univ. of Münster 1976. *Leisure interests:* archaeology, photography, travel. *Address:* 4370 Marl, Flämingstrasse 11, Federal Republic of Germany.

MONNERVILLE, Gaston Charles François, L. ès L., D. en D.; French public servant; b. 2 Jan. 1897, French Guiana; s. of Saint-Yves Monnerville and Françoise Orville; m. Marie-Thérèse Lapeyre 1923; ed. Faculty of Law, Toulouse; admitted to Bar of Toulouse 1918, Paris 1921; Pres. of Union of Young Lawyers at the Paris Court 1927; Deputy for Guiana 1932; Mayor of Cayenne 1935; mem. of Radical and Radical-Socialist Party; Vice-Pres. of Party 1938; Under-Sec. of State for Colonies 1937, 1938; served in Navy in Second World War; after Armistice was active in resistance movement 1940-44; mem. of Consultative Assembly 1944; Pres. of Comm. of Overseas France; re-elected for Guiana to Constituent Assembly 1945 and 1946; Del. of France to UN Assembly; Councillor of the Repub. 1946; Senator for Lot 1948, 1955, 1958, 1965; Pres. of Council of the Repub. 1947-58; Pres. Senate of the Repub. 1958-68, Senate of the Community 1959-60; mem. Constitutional Council 1974-; Pres. Gen. Council of Lot Dept. 1951-70, Hon. Pres. 1970-; Mayor of Saint-Céré (Lot) 1964-71; mem. Council of Paris Univ. 1959-69; mem. Société des Gens de Lettres 1968; Croix de guerre 1940; Medal of Resistance with Rosette; Chevalier, légion d'honneur. *Publications:* L'enrichissement sans cause 1921, Le Sénat 1965, Clemenceau 1968, Histoire générale de l'Afrique (with

others) 1972, Témoignage, Vol. I 1975. *Leisure interests:* swimming, walking, skiing, golf, music. *Address:* 27 avenue Raymond-Poincaré, 75116 Paris, France.

MONNIER, Claude Michel, PH.D.; Swiss journalist; b. 23 March 1938, Rwankéri, Rwanda; s. of Henri Monnier and Olga Pavlov; m. Estela Troncoso Balandrán 1958; two s.; ed. Univs. of Geneva and Mexico, Graduate Inst. of Int. Studies, Geneva; educational tour in Asia and America 1956-58; Research Fellow, Swiss Nat. Fund for Scientific Research, Tokyo 1963-66; Tokyo Corresp. Journal de Genève 1963-66, Foreign Ed. 1966-70, Ed. in Chief 1970-. *Publications:* Les Américains et sa Majesté l'Empereur: Etude du conflict culturel d'où naquit la constitution japonaise de 1946 1967. *Leisure interests:* walking, light aircraft flying. *Address:* Journal de Genève, 5-7 rue de General Dufour, 1211 Geneva II; Chemin de Saussac 41, 1256 Troinex, Geneva, Switzerland (Home). *Telephone:* (022) 28-03-50 (Office); (022) 43-59-96 (Home).

MONOD, André Théodore, D. ès SC.; French zoologist; b. 9 April 1902, Rouen; s. of Rev. Prof. Wilfred Monod and Dorina Monod; m. Olga Pickova 1930; two s. one d.; ed. Ecole Alsacienne and Paris Univ.; fmr. Prof. Muséum Nat. d'Histoire Naturelle, Paris; fmr. Dir. Inst. Français d'Afrique Noire, Dakar; fmr. Dean, Faculty of Sciences, Dakar Univ.; mem. Inst. de France (Acad. des Sciences), Acad. des Sciences d'Outremer, Acad. de Marine; Dr. h.c. (Univs. of Cologne and Neuchâtel); Gold Medal, Soc. de Géographie, Royal Geographical Soc. and American Geographical Soc.; Haile Selassie Prize for African Research; Officer Légion d'honneur, Order des Palmes académiques, Order of Golden Ark, Commdr. Order of Christ, Mérite Saharien, Mérite Nat. Mauritanie, Ordre Nat. Sénégal. *Leisure interest:* field natural history. *Address:* Muséum National d'Histoire Naturelle, 57 rue Cuvier, Paris 5e; 14 quai d'Orléans, Paris 4e, France (Home). *Telephone:* 331-40-10 (Office); 326-79-50 (Home).

MONOD, Jérome; French politician; b. 7 Sept. 1930, Paris; m. Françoise Gallot 1963; three s.; ed. Nat. School for Public Admin.; Adviser to Prime Minister 1959-62; Conseiller Référendaire à la Cour des Comptes 1963; Chief Exec. Dél. à l'Aménagement du Territoire 1967-75; Special Asst. to Prime Minister Jacques Chirac 1975-1976; Sec.-Gen. Rassemblement pour la République 1976-78. *Publications:* L'aménagement du territoire 1971, Transformation d'un pays: pour une géographie de la liberté 1974, Propositions pour la France 1977. *Leisure interests:* swimming, climbing. *Address:* 13 rue Cambon, 75008 Paris: 94 rue du Bac, 75007 Paris, France (Home). *Telephone:* 2227281 (Home).

MONORY, René Claude Aristide; French administrator and politician; b. 6 June 1923, Loudun; s. of Aristide and Marguerite (Devergne) Monory; m. Suzanne Cottet 1945; one d.; ed. Ecole primaire supérieure de Thouars; dealer in vehicles and agricultural machinery 1952; Chair. agricultural machinery and oil cos.; Mayor of Loudun 1959-; Pres. Mayor's Assen. of Vienne; Councillor, Canton of Loudun 1961-; municipal judge; Senator for Vienne 1968-77, Rapporteur, Senate Finance Comm. 1975-77, Minister of Industry and Trade 1977-78, of the Economy April 1978; mem. Centre des démocrates sociaux (fmr. nat. sec.), Union pour la démocratie français. *Address:* Beaurepaire, 86200 Loudun, France.

MONRAD, Carl Corydon, M.S.E., PH.D.; American chemical engineer; b. 15 Jan. 1905, Buffalo, N.Y.; s. of Chas O. Monrad and Wilhelmina Lagergren Monrad; m. Christine Clark 1930; one s. one d.; ed. Univ. of Michigan; Chemical engineer, Standard Oil Co. (Ind.) 1930-37; Assoc. Prof. Carnegie Inst. of Technology 1937-42, Prof. of Chemical Eng. 1942-, Head of Dept. of Chemical Eng. 1947-65; adviser and consultant to many govt. depts. 1940-45; Assoc. Dean Coll. of Eng. and Science 1965-73; retd. 1973; mem. A.C.S., A.I.Ch.E., American Soc. for Eng. Educ. *Publications:* various publications on different aspects of chemical engineering. *Address:* 55 Daley Terrace, Orleans, Mass. 02653, U.S.A. *Telephone:* 617-255-5811.

MONREAL LUQUE, Alberto, DR.ECON.SC.; Spanish politician and economist; b. 18 Nov. 1926, Madrid; m.; three c.; ed. Univ. de Madrid; mem. Cuerpo de estadísticos facultativos 1956-; Prof. Faculty of Econ. Sciences, Univ. de Madrid 1957-; Perm. Spokesman, Comisión Superior de Personal 1963; Adviser to Council for Land, Sea and Air Transport; Gen. Tech. Sec. Ministry of Public Works until 1965; fmr. Chief, Econ. Advisory Bd. to Ministry of Commerce; Under-Sec. Ministry of Educ. and Science 1968-69; mem. Cortes; Minister of Finance 1969-73. *Address:* c/o Ministerio de la Hacienda, Alcalá 5-9, Madrid, Spain.

MONS, Jean; French civil servant; b. 25 Feb. 1906; s. of Antonie and Mme. Mons (née Martinie); m. Françoise Delval (deceased); one d.; teacher and engineer for agricultural industries; Chief Controller of Indirect Contributions 1924-26; served French Army 1939-40; Prefect (First Class) 1944; Sec.-Gen. of the Seine; Dir. Office of Prés. du Conseil 1946; placed at disposal of Ministry of Foreign Affairs; Resident Gen. in Tunis 1947-50; Perm. Sec.-Gen. for Nat. Defence 1950-56; Conseiller Maître à la Cour des Comptes 1956; mem. Cttee. of Enquiry into Public Costs 1960, Nat. Conciliation Cttee. for Nat. Educ. 1961-; Prés. de Chambre à la Cour des Comptes 1970-76; Prés. Comm. Marchés de Gaz de France 1975-; Commdr. Légion d'honneur, Grand Officier, Ordre nat. du Mérite, Croix de guerre, Rosette de la Résistance, etc. *Address:* 63 rue de Prony, 75017 Paris, France. *Telephone:* WAG 31-57.

MONSARRAT, Nicholas John Turney, F.R.S.L.; British writer; b. 22 March 1910, Liverpool; s. of late K. W. Monsarrat; m. 1st Eileen Rowland 1939 (dissolved 1952), one s.; m. 2nd Philippa Crosby 1952 (dissolved 1961), two s.; m. 3rd Ann Griffiths 1961; ed. Winchester Coll. and Trinity Coll., Cambridge; writer 1934-; Dir. U.K. Information Office, Johannesburg 1946-53, Ottawa 1953-56; Chair. Nat. War Memorial Health Foundation (S. Africa) 1951-53; Bd. of Govs Stratford Shakespeare Festival of Canada 1956; Bd. of Dirs. Ottawa Philharmonic Orchestra 1956; Heinemann Foundation Prize for Literature 1951, Coronation Medal 1953, Chevalier, Sovereign Order of St. John of Jerusalem 1973. *Publications:* Think of Tommorow 1934, At First Sight 1935, The Whipping Boy 1936, This is the Schoolroom 1939, Three Corvettes 1945, Depends What You Mean by Love 1947, My Brother Denys 1948, The Cruel Sea 1951, H.M.S. Marlborough Will Enter Harbour 1952, The Story of Esther Costello 1953, The Tribe That Lost Its Head 1956, The Ship that Died of Shame 1959, The Nylon Pirates 1960, The White Rajah 1961, The Time Before This 1962, Smith and Jones 1963, To Stratford with Love 1963, A Fair Day's Work 1964, The Pillow Fight 1965, Something to Hide 1965, Richer than All His Tribe 1968, The Kappillan of Malta 1973, Monsarrat at Sea 1975; Life is a Four-Letter Word (autobiography), Vol. I 1966, Vol. II 1970, The Master Mariner: Vol. I Running Proud 1978; also films The Cruel Sea 1953, The Ship that Died of Shame 1955, The Story of Esther Costello 1957, Something to Hide 1973. *Leisure interests:* sailing, music. *Address:* 15 Triq Il-Wileg, San Lawrenz, Gozo, Malta; c/o Campbell Thomson and McLaughlin Ltd., 31 Newington Green, London, N.16, England. *Telephone:* 556977 (Malta); 01-249 2971 (London).

MONSEN, Per; Norwegian newspaper editor; b. 4 May 1913, Hamar; s. of Christian Fredrik and Aasta Monsen; m. 1st Beret Scheflo 1941 (divorced); 2nd Ursula Korgvig 1952; one s. one d.; ed. Hamar Kathedralskole; with newspaper Sörlandet 1932-37, Bergens Arbeiderblad 1937-39, Arbeiderbladet, Oslo 1939-, Ed. 1952-64; Norwegian Govt. Information Service, Stockholm 1941-43, London 1943-45; Pres Attaché, Norwegian Mil. Mission, Berlin 1948, 1949; Dir. Int. Press Inst., Zürich 1964-68; Chair. Norwegian Press Fed. 1954-58; ed. Arbeiderbladet 1968-70; Gen. Man. and Chief Ed. Norwegian News Agency 1970-. *Leisure interests:* skiing, motoring, reading. *Address:* Skjerstadveien 4b, Oslo 1; A/S Norsk Telegrambyrå, Pressens Hus, Rosenkrantzgt. 3, Oslo 1, Norway.

MONSON, Sir William Bonnar Leslie, K.C.M.G., C.B.; British diplomatist (retd.); b. 28 May 1912, Edinburgh; s. of John William and Selina Leslie Monson; m. Helen Isobel Browne 1948; ed. Edinburgh Acad. and Hertford Coll., Oxford; Dominions Office 1935-39; Colonial Office 1939-64; Chief Sec., West African Council 1947-51; Asst. Under-Sec. of State, Colonial Office 1952-64; High Commr. in Zambia 1964-66; Asst. Under-Sec. of State, Commonwealth Office 1966-67, Deputy Under-Sec. of State Commonwealth Office, 1967-68; Deputy Under-Sec. of State, Foreign and Commonwealth Office 1968-72; Dir. Overseas Relations, St. John Ambulance HQ. *Address:* Golf House, Goffers Road, London, S.E.3, England. *Telephone:* 01-852-7527.

MONTAGNE, Adhemar; Peruvian diplomatist; b. 1911, Peru; m.; one d.; ed. Peru and Italy; entered Diplomatic Service 1932; Vice-Consul, Milan 1932-37; Consul 1937-42; Consul-Gen., Havana 1942-44; First Sec., Washington 1944-47; Consul-Gen. Genoa 1947-57; Minister Plenipotentiary, Lebanon 1957-62; Chief of Protocol, Ministry of Foreign Affairs 1962-64; Amb. to Morocco 1964-67, Uruguay 1967-69, U.K. (also accred. to Iceland) 1969-77; decorations from Peru, Germany, Italy, Lebanon and Malta. *Address:* c/o Ministerio de Relaciones Exteriores, Atangaro 359, Lima, Peru.

MONTAGNE SÁNCHEZ, Gen. Ernesto; Peruvian army officer and politician; b. 18 Aug. 1916, Barranco, Lima; s. of Gen. Ernesto Montagne Markholtz and Raquel de Montagne; m. Isabel Landázuri de Montagne; one s. one d.; ed. Military School of Chorrillos; Capt. 1944, Lieut.-Col. 1953, Col. 1958, Brig.-Gen. 1963, Gen. of Div. 1968; taught at various mil. schools; several posts ■■ Divisional

Chief of Staff; Dir. Chorrillos Mil. School; Dir. Escuela Superior de Guerra; Prefect of Lima; Gen. Commdr. 3rd Mil. Zone; Minister of State for Educ.; Dir. of Personnel; Deputy Chief of Staff of Army; Gen. Commdr. 1st Mil. Zone and Gen. Inspector of Army; Gen. Commdr. of Army, Pres. of Council of Ministers and Minister of War 1968-72; Orden Militar de Ayacucho, Cruz Peruana al Mérito Militar, Orden del Sol, Orden de San Gregorio Magno, and numerous other foreign awards. *Leisure interest:* sailing. *Address:* Lima, Peru.

MONTAGU, Hon. David Charles Samuel; British banker; b. 6 Aug. 1928, London; s. of the 3rd Baron Swaythling and Mary Levy; m. Christiane F. Dreyfus; one s. two d.; ed. Eton Coll. and Trinity Coll., Cambridge; joined Samuel Montagu & Co. Ltd. 1948, Dir. 1954, Chair. 1970-73; Chair. and Chief Exec. Orion Bank Ltd. March 1974-; Rep. of U.K., United Nations Investment Cttee. 1972-; Dir. Trades Union Unit Trust, United British Securities Trust, Carreras, Derby Trust, London Weekend TV, Drayton Commercial Investment Trust, Ashdown Investment Trust, Rothmans International 1977, Philip Hill Investment Trust 1978; mem. Bd. Standard Telephones and Cables 1977-. *Leisure interests:* racing, shooting, theatre. *Address:* Orion Bank Ltd., 1 London Wall, London, E.C.2; 25 Kingston House South, Ennismore Gardens, London, S.W.7, England (Home). *Telephone:* 01-600 6222 (Office); 01-581 2549 (Home).

MONTAGU, Hon. Ivor, M.A.; British film producer and writer; b. 23 April 1904, London; s. of 2nd Baron Swaythling; m. Eileen Hellstern 1927; ed. Westminster School, Royal Coll. of Science and Technology and King's Coll., Cambridge; Research in Mammalian systematics 1918-25; founded Film Soc. London 1925; produced films 1925-; directed Bluebottles, co-directed Wings Over Everest, Man—One Family; assoc. producer The Man Who Knew Too Much, 39 Steps; produced Spanish War films and Peace and Plenty; Technical Dir. Soviet Film Agency 1941-42; leader-writer London Daily Worker 1943-47; Pres. Soc. of Cultural Relations G.B./U.S.S.R.; mem. World Peace Council; Hon. mem. Assn. of Cine and TV Technicians; Pres. and Chair. Int. Table Tennis Fed. 1926-67, Life Founder Pres. 1967-; Life Vice-Pres. English Table Tennis Assn.; Order of Liberation First Class (Bulgaria) 1952, Lenin Peace Prize 1959, Order of the Pole Star of Mongolia 1963. *Publications:* On the Burrow of the Rodent Spalax 1924, The Political Censorship of Films 1929, The Traitor Class 1940, The Red Army 1941, Stalin 1942, Soviet Soldier in Europe 1946, Negotiation or War 1951, Plot Against Peace 1952, Land of Blue Sky 1956, Film World 1964, Vietnam 1966, Germany's New Nazis 1967, With Eisenstein in Hollywood 1969, The Youngest Son 1970; Co-Author Scott of the Antarctic (screen play). *Address:* Old Timbers, Verdure Close, Watford, WD2 7NJ, England.

MONTALE, Eugenio; Italian poet; b. 12 Oct. 1896, Genoa; s. of Domenico and Giuseppina (Ricci) Montale; m. Drusilla Tanzi (died 1963); helped found literary journal Primo Tempo 1922; on editorial staff, Bemporad (publishers) 1927-28; Dir. Gabinetto Vieusseux Library, Florence 1928-38; journalist, contributor to several literary journals and poetry critic for La Fiera Letteraria 1938-48; literary ed. later music critic, Corriere della Sera 1948-; hon. degrees (Milan, Rome, Cambridge); Antico Fattore Poetry Prize (for Casa dei doganieri) 1932; Premio Manzotto (for La bufera e altro) 1956; Feltrinelli prize 1963, 1964; Calouste Gulbenkian Prize, Acad. du Monde Latin, Paris 1971; Nobel Prize for Literature 1975. *Publications:* Principal works include: poetry: Ossi di Seppia 1925, La casa dei doganieri e altre poesie 1932, La bufera ■ altro 1956, Satura 1962, Xenia 1966; prose: La farfalla di Dinard 1956, Auto da fé 1966, Fuori di casa 1969, Quaderno di Quattro Anni 1977. *Address:* c/o Corriere della Sera, Via Solferino 28, Milan; Via Bigli 11, Milan, Italy (Home).

MONTAND, Yves (pseudonym of Yves Livi); French actor and singer; b. 13 Oct. 1921; m. Simone Signoret (*q.v.*) 1951; ed. primary school, Marseilles; interpreter of numerous famous songs; stage performances in straight plays and variety; *films include:* Les portes de la nuit, Le salaire de la peur, Les héros sont fatigués, Marguerite de la nuit, Hommes et loups, Les sorcières de Salem, Premier mai, La loi, Temps d'aujourd'hui, Napoléon, Un dénommé Squarcio, Aimez-vous Brahms, Ma Geisha, La guerre est finie, Vivre pour vivre, Un soir un train, Z, Le Diable par la queue, L'aveu, On ■ Clear Day You Can See Forever, Le cercle rouge, Tout va bien 1972, César et Rosalie 1972, Etat de Siège, Le fils 1973, Le hasard et la violence, Vincent, François, Paul et les autres 1974, Le grand escogriffe 1976, Comme Icare 1979, Clair de femme 1979. *Publications:* Du soleil plein la tête (memoirs) 1955. *Address:* 15 place Dauphine, 75001 Paris, France.

MONTANELLI, Indro; Italian journalist and writer; b. 22 April 1909; ed. Univ. degli Studi, Florence and Univ. de Paris à la Sorbonne; Special Corresp. Corriere della Sera 1939-73; War Corresp. in Finland, Norway, Spain, Albania and Greece; Founder, Man. Ed. Il Giornale, Milan 1974-; has won Bagutta and Marzotto Prizes. *Publications:* Storia di Roma 1957, Storia dei Greci 1958, Incontri 1961, Garibaldi 1962, Gente qualunque 1963, Dante e il suo secolo 1964, Italia dei secoli bui 1965; *Plays:* I sogni muoino all'alba (also film), Il Generale della Rovere (also film) Kibbutz. *Address:* c/o Il Giornale, Piazza Cavour, 20121 Milan, Italy.

MONTGOMERY, (Charles) John, C.B.E., F.I.B., F.B.I.M.; British banker; b. 18 Feb. 1917, Llandudno; s. of the late Rev. Charles James Montgomery; m. Gwenneth Mary McKendrick 1950; two d.; ed. Colwyn Bay Grammar School; served with Royal Navy 1940-46; joined Lloyds Bank Ltd. 1935, Joint Gen. Man. 1968, Asst. Chief Gen. Man. 1970, Deputy Chief Gen. Man. 1973, Dir. 1972-, Chief Gen. Man. 1973-78, Vice-Chair. 1978-; Dir. Lloyds Bank Int. 1978-; Deputy Chair. Inst. of Bankers 1975-76, Pres. 1976-77, Vice-Pres. 1977-; Chair. Chief Exec. Officers' Cttee. of The Cttee. of London Clearing Bankers 1976-78. *Leisure interests:* walking, photography. *Address:* High Cedar, 6 Cedar Copse, Bickley, Kent, England. *Telephone:* 01-467 2410.

MONTGOMERY, David (b. Phillip Meckenberg); American photographer; b. 8 Feb. 1937, Brooklyn N.Y.; s. of Arthur Montgomery Meckenberg and Lucille Ruth Phillips; m. Caroline Blanche Maidlow 1962; two d.; ed. Midwood High School; toured U.S.A. ■ musician; freelance photographer 1960-; photographed H.M. Queen Elizabeth II for Observer magazine; contrib. to Sunday Times, Vogue, fmr. Queen magazines; joint exhbn., Inst. of Contemporary Arts, London 1973. *Leisure interests:* gardening, photography, daydreaming. *Address:* c/o Robert Montgomery, 5-6 Portland Mews, D'Arblay Street, London W.1, England. *Telephone:* 01-439 1877.

MONTGOMERY, Deane, PH.D.; American mathematician; b. 2 Sept. 1909, Weaver, Minn.; s. of Richard and Florence (Hitchcock) Montgomery; m. Katherine Fulton 1933; one s. one d.; ed. Hamline Univ. and Univ. of Iowa; Asst. Prof. of Maths. Smith Coll. 1935-38, Assoc. Prof. 1938-42, Prof. 1942-46; Assoc. Prof. Yale Univ. 1946-48; Perm. mem. Inst. of Advanced Study, Princeton 1948-51, Prof. of Maths. 1951-; Vice-Pres. Int. Mathematical Union 1967-72, Pres. 1975-78; Hon. Dr. (Hamline, Illinois, Yeshiva and Tulane Univs.). *Publication:* (with Leo Zippin) Topological Transformation Groups 1955. *Address:* Institute for Advanced Study, Princeton, N.J. 08540; 55 Rollingmead, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 609-924-4333.

MONTI, Innocenzo; Italian banker; b. 3 Dec. 1909, Salerno; s. of Edoardo Monti and Maria Piera del Bo; m. Lalla Romano 1932; one s.; ed. Turin Univ.; joined Banca Commerciale Italiana, Cuneo Branch 1927; took part in preparations for post-war reconstitution of Bank's admin. 1944; joined Italian Banking Assn. ■ mem. Tech. Comm. for Banking Admin. 1951; Adviser to Chair. of Banco de Credito del Perú, Lima 1953; Chief Accountant-Gen. 1966; invited by Bank of Italy to take part in Interbank Convention on Automation Problems (CIPA) 1968; supervised admin. aspects of establishment of branches in New York, London, Singapore, Tokyo, Los Angeles, Chicago, São Paulo 1968-74; Chair. Banca Commerciale Italiana 1976-; Vice-Chair. Teatro alla Scala, Milan 1977-; Cavaliere di Gran Croce, Ordine al Merito della Repubblica Italiana. *Publications:* L'impiego degli elaborati elletronici nel lavoro bancario 1970, La banca di credito ordinario con filiali operandi in tutto il territorio nazionale 1970, Intervento finale al Convegno IRI "Inflation accounting" 1977. *Leisure interests:* literature, history, music, mountaineering. *Address:* Via Brera 17, 20121 Milan, Italy. *Telephone:* 899161.

MONTJOIE, René; French administrator; b. 29 Sept. 1926, Lille; s. of Marcel and Adrienne (Polliart) Montjoie; m. Noëlle Kirchner 1953; one d.; ed. Ecole Polytechnique and Univ. of Chicago; Asst. to Chief of Iron Metallurgy, Ministry of Industry 1952-53; mineralogical work in the Metz region 1954-57; Prof. of Economy, Ecole nat. supérieure des mines, Nancy 1955-58; Asst. to Dir. of Mines, Ministry of Industry 1957-62; Technical Adviser to Office of Prime Minister (Georges Pompidou) 1962-67; Admin. of Electricité de France 1964-, now Vice-Pres. of Man. Bd.; Commr.-Gen. of the Plan d'Equipement et de la Productivité 1967-74; Ingénieur-Général des Mines 1975-; Chevalier, Légion d'honneur. *Leisure interest:* tennis. *Address:* 32, rue de Monceau, 75008 Paris, France. *Telephone:* 755-94-10.

MONTRÉMY, Philipe Marie Waldruche de, L. en D., L. ès L.; French business executive; b. 25 July 1913, Paris; ed. Ecole Libre des Sciences Politiques; Inspecteur des Finances 1942; Deputy Dir. Direction des Prix 1947; Deputy Dir. Office of Minister of Finance

and Econs. 1949; Dir. of Finance, Morocco 1955; Econ. and Financial Counsellor, French Embassy; Morocco 1956; Dir.-Gen. of Customs and Excise 1958-71; Insp. Gen. of Finance 1964-; Admin. Cie. Générale Transatlantique 1962-74, Cie. des Messageries Maritimes 1964-74, Aéroport de Paris 1974-76; mem. Conseil d'Admin. Service d'Exploitation Industrielle des Tabacs et des Allumettes (SEITA) 1971, Pres. 1971-74; Pres. Banque Demachy 1976-; Commdr. Légion d'honneur, Croix de guerre, Officier, Ordre national de Mérite. *Address:* 28 avenue de New York, 75116 Paris, France.

MOOKERJEE, Sir Birendra Nath, Kt., M.A., M.I.E.; Indian businessman; b. 14 Feb. 1899; ed. Hastings House and Sibpur Engineering Coll., Calcutta, and Trinity Coll., Cambridge; Asst. Martin & Co. 1924; Partner, Burn & Co. 1931- and Martin & Co. 1934-, Governing Dir. Martin Burn Ltd. 1958-; mem. Munitions Bd. and Defence Council, Second World War; Sheriff, Calcutta 1940; Chair. Bd. of Govs., Indian Inst. of Tech. Kharagpur; Chair. Calcutta Bd., fmr. Imperial Bank of India; Pres. Governing Body, Sibpur Engineering Coll., fmr. Fellow Faculty of Eng., Calcutta Univ.; Chair. Steel Corpn. of Bengal Ltd., Indian Iron and Steel Co. Ltd., Calcutta -1972; Dir. Darjeeling Himalayan Railway Co., Indian Copper Corpn. Ltd., Alkali and Chemical Corpn. of India Ltd., The Statesman Ltd., Jardine Henderson Ltd., and many others; trustee and mem., Exec. Cttee. Victoria Memorial Hall, Calcutta. *Address:* 7 Harrington Street, Calcutta 700016, India.

MOORE, Arch Alfred, Jr., LL.B.; American politician and lawyer; b. 16 April 1923, Moundsville, W. Va.; s. of Mr. and Mrs. Arch A. Moore; m. Shelley Riley 1949; one s. two d.; ed. Moundsville High School, West Virginia Univ.; served in Army, Second World War, as Combat Sergeant until severely injured and discharged; entered Law School 1948; admitted to W. Va. State Bar 1951, joining family law partnership in the same year; elected Vice-Pres. W. Va. Bar Assn.; elected to W. Va. House of Dels. 1952; elected to Congress 1956; Gov. of West Virginia 1969-77; Chair. Nat. Govs. Conf. 1971; Co-Chair. Appalachian Regional Comm. 1971; Chair. Educ. Comm. of U.S. 1974, Nat. Republican Govs.' Assn. 1976, Interstate Mining Compact Comm. 1976; Purple Heart Medal; Commdr. and Grand Officer, Order of Merit (Italy); Republican. *Address:* 507 Jefferson Avenue, Glen Dale, W. Va. 26038, U.S.A.

MOORE, Brian; British novelist; b. 25 Aug. 1921, Belfast, N. Ireland; s. of James Bernard Moore and Eileen McFadden; m. Jean Denney 1967; one s.; Guggenheim Fellowship 1959; Canada Council Senior Fellowships 1961, 1975; Authors Club of Great Britain Novel Award 1956; Quebec Literary Prize 1958; Gov.-Gen. of Canada Fiction Award 1961; U.S. Nat. Inst. of Arts and Letters Award 1961; W. H. Smith Award (U.K.) 1973. *Publications:* novels: The Lonely Passion of Judith Hearne 1956, The Feast of Lupercal 1958, The Luck of Ginger Coffey 1960, An Answer from Limbo 1963, The Emperor of Ice Cream 1965, I Am Mary Dunne 1968, Fergus 1971, Catholics 1972, The Great Victorian Collection 1975, The Doctor's Wife 1976; non-fiction: The Revolution Script 1971, Canada (with the Eds. of Life) 1963, 1967. *Address:* c/o Curtis Brown, 575 Madison Avenue, New York, N.Y. 10022, U.S.A. *Telephone:* (212) PL 54200.

MOORE, Francis Daniels, M.D.; American surgeon; b. 17 Aug. 1913, Evanston, Ill.; s. of Philip Wyatt and Caroline (Daniels) Moore; m. Laura Benton Bartlett 1935; two s. three d.; ed. Harvard Coll. and Medical School; Intern and Resident, Mass. Gen. Hosp. 1939-43; Research Fellow, Nat. Research Council 1940-41; Tutor and Asst. Prof. in Surgery, Harvard Medical School 1944-48, Moseley Prof. of Surgery 1948-76, Elliott Carr Cutler Prof. of Surgery 1976-; Surgeon in Chief, Peter Bent Brigham Hosp. 1948-76, Surgeon 1976-; Senior Consultant in Surgery, Sidney Farber Cancer Center 1976; Silver Medal Award of Int. Soc. of Surgery 1959, Harvey Allen Award of American Burns Assn. 1970, Gold Headed Cane of Univ. of Calif. 1970, Bigelow Medal of Boston Surgical Soc. 1974, Samuel D. Gross Medal of American Surgical Assn. 1978, Lister Medal of Royal Coll. of Surgeons of England 1978; Hon. M.Ch. (Nat. Univ., Ireland) 1961, Hon. LL.D. (Glasgow) 1965, Hon. S.D. (Suffolk) 1966, Hon. M.D. (Edinburgh) 1975, (Paris) 1976, (Copenhagen) 1979. *Publications:* Metabolic Response to Surgery 1952, Metabolic Care of the Surgical Patient 1959, Give and Take, the Development of Tissue Transplantation 1964, Surgical Manpower in the United States 1975. *Leisure interests:* sailing, piano playing. *Address:* 10 Shattuck Street, Boston, Mass. 02115; 319 Longwood Ave., Boston, Mass. 02115; Home: 66 Heath Street, Brookline, Mass. 02146, U.S.A. *Telephone:* (617) 734-0420 and (617) 566-6226 (Offices); (617) 277-3552 (Home).

MOORE, George Stevens, B.S.; American banker; b. 1 April 1905, Hannibal, Missouri; s. of George Victor and Etha (née Stevens) Moore; m. 1st Beatriz Braniff Bermejillo 1938 (divorced 1967), one s.; m. 2nd Charon Crosson 1967, one s. two d.; ed. Washington Univ., St. Louis, and Yale Univ.; joined The Farmers Loan and Trust Co. (now Citibank N.A.), Asst. Sec. 1931; Asst. Vice-Pres. First Nat. City Bank of New York 1934-39, Vice-Pres. 1939-52, Exec. Vice-Pres. (Domestic Div.) 1952-57, Exec. Vice-Pres. (Overseas Div.) 1957-59, Pres. 1959-67, Chair. 1967-70; Chair., Dir. Banco Urquijo Hispano Americano Ltd., London; Dir. Gamble-Skogmo, Inc., W.R. Grace and Co., Mercantile Stores Co., Inc., King Ranch España S.A., The Spanish Inst.; Hon. Dir. Metropolitan Opera Assn. Inc., Tennessee Valley Bancorp Inc., Nashville; Trustee The Hispanic Soc. of America, Lahey Clinic Foundation, Soc. of New York Hosp. *Leisure interests:* family, opera, golf. *Address:* 399 Park Avenue, New York, N.Y. 10022, U.S.A. *Telephone:* 212/559-4755 (Office).

MOORE, Gerald, C.B.E.; British pianist; b. 30 July 1899, Watford, Herts.; m. Enid Kathleen Richard 1936; ed. Watford Grammar School, and Univ. of Toronto, Canada; studied piano with Prof. Michael Hambourg in Toronto 1916; toured Canada as a boy pianist; returned to England 1920; was accompanist to John Coates and played chamber music; has accompanied most leading singers and instrumentalists and played at Festivals of Edinburgh, Salzburg, Holland, Granada, Seville, Besançon, Berlin, Vienna, etc., retd. from concert platform 1967; also lectures and gives broadcast and television talks on music and the art of accompanying; lectured annually in U.S.A.; Master Classes in Song Interpretation in U.S.A., Japan, Sweden, Salzburg, Helsinki, England 1949-67; fifty years of recording; Pres. Inc. Soc. of Musicians 1962; D.Litt. h.c. (Sussex) 1968; Mus. Doc. h.c. (Cambridge) 1973; Cobbett Gold Medal for services to chamber music 1951; Grand Prix du Disque for the recording of his farewell recital 1967 and for Homage to Gerald Moore 1969; Edison Award, Amsterdam 1967-69; Granados Medal, Barcelona 1971; Hugo Wolf Medal, Vienna 1972; Hon. R.A.M. *Publications:* The Unashamed Accompanist 1943, Singer and Accompanist 1953, Am I Too Loud? (memoirs) 1962, The Schubert Song Cycles 1975, Farewell Recital (memoirs) 1977. *Leisure interests:* reading, gardening, bridge. *Address:* Beechwood Cottage, Penn Bottom, Penn, Bucks., England.

MOORE, Henry, O.M., C.H., F.B.A.; British sculptor; b. 30 July 1898, Castleford, Yorks.; s. of Raymond Spencer Moore and Mary Baker; m. Irene Radetzky 1929; one d.; ed. Castleford Grammar School, Leeds School of Art and Royal Coll. of Art; Official War Artist 1940-42; Trustee, Tate Gallery 1941-48, 1949-56, Nat. Gallery 1955-63, 1964-74; mem. Royal Fine Art Comm. 1947-71, Arts Council 1963-67; formed Henry Moore Foundation 1977; 22 major exhbns. of work, London 1928-78, Leeds 1941, New York 1946, Chicago 1947, San Francisco 1947, Venice Biennale 1948 (First Prize for Sculpture), Cape Town 1951, Rotterdam 1953, Antwerp 1953, Sao Paulo 1953 (First Prize in Foreign Sculpture), Basel 1955, Paris 1957, Arnhem 1957, Edinburgh 1961, New York 1970, Munich 1971, Paris 1971, Florence 1972, Luxembourg 1973, Los Angeles 1973, Toronto 1974, Zürich 1976, Paris 1977; also tours in Australia 1947, Europe 1949-51, Scandinavia 1952-53, Germany 1953-54, U.S.A. 1955, Yugoslavia 1955, Canada, N.Z., Australia and South Africa 1955-58, Japan 1959, Spain and Portugal 1959, Poland 1959, Europe 1960-61, U.S.A. 1963, Latin America 1964-65, U.S.A. 1966-68, Eastern Europe 1966, Israel 1966, Canada 1967-68, Netherlands and Germany 1968, Japan 1969-70, Iran 1971, Scandinavia 1975-76; examples of work in Tate Gallery, London, British Museum, Nat. Gallery, Washington, Museum of Modern Art, New York, Albright Knox Art Gallery, Buffalo, and other public galleries in the U.K., U.S.A., Germany, Italy, Switzerland, Netherlands, Sweden, Denmark, Norway, France, Australia, Brazil, Israel, South Africa, Japan, etc.; Foreign mem. Swedish Royal Acad. of Fine Arts; Foreign Corresp. mem. Acad. Flamande des Sciences, Acad. des Lettres et Beaux Arts, Belgium; Foreign hon. mem. American Acad. of Arts and Sciences; Hon. Fellow Churchill Coll., Cambridge; Hon. D. Lit. (Leeds, London, Reading, Oxford, Hull, York, Durham), Hon. Dr. of Arts (Yale, Harvard), Hon. Dr. of Law (Cambridge, St. Andrews, Sheffield, Toronto, Manchester), Hon. Dr. of Eng. (Berlin), Hon. Dr. of Letters (Sussex, Warwick, Leicester, York, Columbia), Hon. Dr., R.C.A. 1967; Hon. Prof. Emeritus of Sculpture, Carrara Acad. of Fine Arts; Feltrinelli Foundation Int. Sculpture Prize 1963, Erasmus Prize 1968, Einstein Prize 1968, Biancamano Prize 1973, Goslar Prize 1975; Order of Merit, (Fed. Repub. of Germany) 1968, (Italy) 1972. *Works include:* Mother and Child, Reclining Figure, Madonna and Child, Three Standing Figures, Family Group, King and Queen, Reclining Figure (for Lincoln Center, New York), Sundial for The Times building, London. *Publications:* Heads, Figures and Ideas 1958, Henry Moore on Sculpture (with Philip James) 1966. *Address:* Hoglands, Perry Green, Much Hadham, Herts., England. *Telephone:* Much Hadham 2566.

MOORE, J. H., F.C.A.; Canadian business executive; b. 27 Dec. 1915, London, Ont.; s. of J. McClary Moore and Phyllis Henderson Moore; m. S. Elizabeth Wood 1939; two s. three d.; ed. Ridley Coll., St. Catherine's, Ont. and Royal Mil. Coll., Kingston, Ont.; Chartered Accountant, Clarkson, Godon & Co., Toronto 1945, Resident Partner, London, Ont. 1950; Dir. of Finance and Treas., John Labatt Ltd. 1953, Vice-Pres. and Gen. Man. 1956, Exec. Vice-Pres. and Man. Dir. 1957, Pres. 1958-69, Chair. of Bd. 1967-; Pres. Brascan Ltd. 1969-76, Chair., Chief Exec. Officer 1976-; Dir. Bell Canada, Cadillac Firview Corpn., Canadian Imperial Bank of Commerce, Canadian Pacific, Hudson's Bay Company, Canadian Corporate Man. Co. Ltd., London, Life Insurance Co. Northern Telecom. Ltd.; mem. Int. Council, The Morgan Guaranty Trust Co. of New York, Advisory Bd. School of Business, Univ. of W. Ontario; Chair. Advisory Bd. Women's Christian Assen., London, Ontario. *Address:* Brascan Ltd., 48th Floor, Commerce Court West, King and Bay Streets, Toronto, Ont., Canada.

MOORE, John A(lexander), M.A. PH.D.; American biologist, b. 27 June 1915, Charles Town, W. Va.; s. of George Douglas Moore and Louise Hammond Blume Moore; m. Anna Betty Clark 1938; one d.; ed. Columbia Coll. and Columbia Univ.; Tutor of biology Brooklyn Coll. 1939-41; instructor at Queens Coll. 1941-43; Asst. Prof. Zoology Barnard Coll. 1943-47, Assoc. Prof. 1947-50; Prof. 1950-68, Chair. Zoology Dept. 1948-52, 1953-54, 1960-66; Res. Assoc. American Museum of Natural History 1942-; Asst. Zoology Dept., Columbia 1936-39, Chair. 1949-52, Prof. 1954-68; Prof. Biology Dept. Univ. of Calif. (Riverside) 1969-; Fulbright Research Scholar, Australia 1952-53; Walker Ames Prof. Univ. of Washington 1966; Guggenheim Fellowship Award 1959; Biological Sciences Curriculum Study 1959-; Commission on Science Educ. 1967-73, Chair. 1971-73; mem. Marine Biology Lab., A.A.A.S. Int. Soc. of Developmental Biologists, Genetics Soc. of America, American Soc. of Zoologists, Pres. 1974, Harvey Soc., American Soc. of Naturalists, Pres. 1972, Soc. for Study Evolution, Pres. 1963, American Acad. Arts and Sciences, Nat. Acad. of Sciences. *Publications:* Principles of Zoology 1957, Heredity and Development 1963, 1972, A Guide Book to Washington 1963, Biological Science: An Inquiry into Life 1963, 1968, 1973 (Supervisor), Physiology of the Amphibia (Ed.) 1964, Ideas in Modern Biology (Ed.) 1965, Interaction of Man and the Biosphere (Co-author) 1970, 1975, 1979, Ideas in Evolution ad Behavior (Ed.) 1970, Science for Society: A Bibliography 1970, 1971, Readings in Heredity and Development 1972. *Leisure interests:* photography, history of American science. *Address:* Department of Biology, University of California, Riverside, Calif. 92521; 11522 Tulane Avenue, Riverside, Calif. 92507, U.S.A. (Home). *Telephone:* 714-684-0412 (Home).

MOORE, Robert F. (Bobby), O.B.E.; British professional footballer; b. 12 April 1941, Barking, Essex; s. of Robert E. Moore and Doris Moore; m. Christina E. Moore 1962; one s. one d.; ed. Thomas Hood Technical Coll., Leyton; played for West Ham Football Club 1958-74, Fulham F.C. March 1974-; 18 England Youth Caps (record); many Under-23 Caps; 108 Full Int. Caps (record), 90 times as Captain; Winner's Medals in F.A. Cup Final 1964 (West Ham), European Cup Winners Cup Final 1965 (West Ham), World Cup Final 1966 (England); Runners-up Medal in F.A. Cup Final 1975 (Fulham); Footballer of the Year 1964; Player of Players in World Cup 1966. *Leisure interests:* Music, golf, different sports to relax. *Address:* Morlands, Stradbroke Drive, Chigwell, Essex, England.

MOORE, Stanford, B.A., PH.D.; American biochemist; b. 4 Sept. 1913, Chicago, Ill.; s. of John Howard and Ruth Fowler Moore; ed. Vanderbilt Univ. and Univ. of Wisconsin; Asst., Rockefeller Inst. for Medical Research, New York 1939-42, Assoc. 1942-49, Assoc. mem. 1949-52, mem. 1952-, Prof. of Biochem. 1952-; Technical Aide, Office of Scientific Research and Devt., Washington D.C. 1942-45; Visiting Prof. (Francqui Chair.), Univ. of Brussels 1950-51; Visiting Investigator, Univ. of Cambridge 1951; mem. Editorial Bd. Journal of Biological Chemists, 1950-60; mem. American Soc. of Biological Chemists, Treasurer 1956-59, Pres. 1966; mem. A.C.S. (Richards Medal 1972), Biochem. Soc. (Great Britain), Harvey Soc., U.S. Nat. Acad. of Sciences; Trustee, Vanderbilt Univ. 1974; Hon. mem. Belgian Biochem. Soc., Belgian Royal Acad. of Medicine; Hon. M.D. (Brussels) 1954; Dr. h.c. (Paris) 1964; Founder's Medal, Vanderbilt Univ. 1935; Linderstrøm-Lang Medal 1972, Nobel Prize for Chem. (with C. B. Anfinsen and W. H. Stein) 1972. *Publications:* Technical articles on the characterization of carbohydrates, chromatographic determination of amino acids, and the determination of the structures of protein molecules. *Address:* The Rockefeller University, 66th Street and York Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* 212-360-1220.

MOORE, William Harreld; American railway executive; b. 8 May 1916, Hazard, Ky.; s. of William Ray and Mary Roberts Moore; m. Virginia P. Smith 1941; two s.; ed. Danville Military Acad. and Virginia Military Inst.; electrical engineer, Sperry Products Inc. 1937-41; joined Southern Railway System 1941, Vice-Pres. in charge of Operations 1965-70, Exec. Vice-Pres. (Operations) 1970-; Pres. Terminal Railroad Assen. of St. Louis 1963-65; Pres. and Chief Exec. Officer, Penn Cen. Transportation Co. 1970-74; Dir. American Security and Trust Co., Griffith-Consumers Co., Acacia Mutual Life Insurance Co., Nat. Railroad Passenger Corpn., Assen. of American Railroads. *Address:* Penn Central Transportation Co., 1846 Six Penn Center Plaza, Philadelphia, Pa. 19104, U.S.A. *Telephone:* 215-594-2214.

MOOREHEAD, Alan, C.B.E.; Australian writer; b. 22 July 1910, Melbourne; s. of Richard Moorehead; m. Lucy Milner 1939; two s. one d.; ed. Scotch Coll. and Melbourne Univ.; Sunday Times Gold Medal 1956; Duff Cooper Award 1956. *Publications:* Mediterranean Front 1941, A Year of Battle 1943, The End in Africa 1943, African Trilogy 1944, Eclipse 1945, Montgomery 1946, The Rage of the Vulture 1948, The Villa Diana 1951, The Traitors 1952, Rum Jungle 1953, A Summer Night 1954, Gallipoli 1956, The Russian Revolution 1958, No Room in the Ark 1959, The White Nile 1960, The Blue Nile 1962, Coopers Creek (Royal Soc. of Literature Award) 1963, The Desert War 1965, The Fatal Impact 1966, Darwin and the Beagle 1969, A Late Education 1970. *Address:* c/o National Bank of Australasia, Australia House, Strand, London, W.C.2, England.

MOORER, Admiral Thomas Hinman, D.S.M., D.F.C.; American naval officer (retd.); b. 9 Feb. 1912, Mount Willing, Ala.; s. of the late Richard Randolph Moorer and Hulda Hinson; m. Carrie Foy 1935; three s. one d.; ed. U.S. Naval Acad.; service in U.S. warships 1933-35, aviation squadrons 1936-43; Commdr. of bombing squadron 1943; Gunnery and Tactical Officer, Staff of Commdr., Naval Air Force, Atlantic 1944-45; Strategic Bombing Survey, Japan 1945-56; Naval Aviation Ordnance Test Station 1946-48; Exec. Officer aircraft carrier Midway 1948-49; Operations Officer on Staff of Commdr. Carrier Div. Four, Atlantic Fleet 1949-50; Naval Ordnance Test Station, Inyokern 1950-52; Capt. 1952; Staff of Commdr., Naval Air Force, Atlantic Fleet 1953-55; Aide to Asst. Sec. of Navy for Air 1955-56; Commdr. U.S.S. Salisbury Sound 1956-57; Special Asst., Strategic Plans Div., Office of Chief of Naval Operations, Navy Dept. 1957-58; Rear Adm. 1958; Asst. chief of Naval Operations (War Gaming Matters) 1958-59; Commdr. Carrier Div. Six 1959-60; Dir. Long Range Plans 1960-62; Vice-Adm. 1962; Commdr. U.S. Seventh Fleet, W. Pacific 1962-64; Adm. 1964; C.-in-C. U.S. Pacific Fleet 1964-65; C.-in-C. U.S. Atlantic Fleet, C.-in-C. Atlantic and Supreme Allied Commdr. Atlantic (NATO Forces) 1965-67; Chief of Naval Operations, U.S. 1967-70; Chair. U.S. Joint Chiefs of Staff 1970-74; Silver Star Medal 1942, Legion of Merit 1945, Gray Eagle of U.S. Navy Award 1972, Defense Distinguished Service Medal 1973, and many U.S. and foreign decorations. *Address:* 6901 Lupine Lane, McLean, Va. 22101, U.S.A.

MOORES, Hon. Frank Duff; Canadian politician; b. 18 Feb. 1933, Carbonear, Newfoundland; s. of Dorothy Duff and Silas Wilmot Moores; m. 2nd Janis Johnson 1973, one s.; six d. (by previous marriage); mem. Fed. House of Commons 1968-71, Newfoundland House of Assembly Oct. 1971-; Premier of Newfoundland Jan. 1972-, also Minister of Fisheries 1972-73; mem. Progressive Conservative Party, Nat. pres. 1969, Newfoundland leader May 1970-; Hon. LL.D. (Memorial Univ. of Newfoundland) 1975. *Leisure interests:* golf, fishing, hunting. *Address:* Mount Scio House, St. John's, Newfoundland, Canada.

MOOS, Malcolm, M.A., PH.D.; American educationist; b. 19 April 1916, St. Paul, Minn.; s. of Charles John Moos and Katherine (née Grant) Moos; m. Margaret Tracy Gager 1945; two s. three d.; ed. Univs. of Minnesota and California; Teaching Fellow, Political Science Dept., Univ. of Minn. 1938-39, Univ. of Calif. 1939-41; Research Asst. Bureau of Public Admin., Univ. of Ala. 1941-42; Asst. Prof. of Political Science, Univ. of Wyo. 1942, Johns Hopkins Univ. 1942-46; Assoc. Prof. Johns Hopkins Univ. 1946-52, Prof. 1952-61, 1963; Assoc. Ed., Baltimore Evening Sun 1945-48; Visiting Prof., Univ. of Mich. 1955; Consultant, White House Office 1957-58; Admin. Asst. to Pres. of U.S.A. 1958-60; White House Special Asst. 1960-61; Prof. of Public Law and Govt. Columbia Univ. 1963-65; Dir. of Policy and Planning, Ford Foundation 1964-66, of Office of Govt. and Law 1966-67; Pres. Univ. of Minn. 1967-74, Center for the study of Democratic Insts. 1974-75; mem. numerous social service and educ. comms. and cttees., Bds. of Dirs. and Trustees; Chair. and Vice-Chair. of various comms.; Hon. LL.D. (Ohio Northern Univ., Univ. of North Dakota, Georgetown Univ., Johns Hopkins Univ.); Hon. Litt.D. (Coll. of Saint Thomas). *Publications:* State Penal Administration in Alabama 1942, Politics, Presidents

and Coattails 1952, The Republicans: A History of Their Party 1956; co-author of several publications. *Address:* 79 Western Avenue, N. St. Paul, Minn. 55102, U.S.A.

MORAES, Dominic; Indian writer and poet; b. 19 July 1938; s. of late Frank Moraes; ed. St. Mary's High School, Bombay, and Jesus Coll., Oxford; Consultant UN Fund for Population Activities 1973-; Man. Ed. The Asia Magazine Hong Kong 1972-; Hawthornden Prize for A Beginning 1957. *Publications include:* A Beginning 1957, Gone Away 1960, My Son's Father (autobiog.) 1968, The Tempest Within 1972-73, The People Time Forgot 1972, A Matter of People 1974, Voices of Life (essays) 1975, books of poems and travel books on India. *Address:* c/o United Nations Fund for Population Activities, 485 Lexington Avenue, 20th Floor, New York, N.Y. 10017, U.S.A.

MORAES, Vinicius de, LL.B.; Brazilian writer and diplomatist; b. 1913; ed. Nat. Faculty of Law, Colégio Santo Ignácio and Magdalen Coll., Oxford; Ministry of Educ. 1936-38; Ministry of Foreign Affairs 1943; Film Critic 1940-45; Sec. Embassy 1944-47; Vice-Consul, Los Angeles 1947-50; Consul, Montevideo 1958-60. *Publications:* Poetry: O Caminho para a Distância 1933, Forma e Exegese 1946, Ariana a Mulher 1936, Novos Poemas 1938, 1959, Cinco Elegias 1943, Poemas, Sonetas e Baladas 1946, Patria Minha 1948, Livro de Sonetos 1957, Antologia Poética 1954, Orfeu da Conceição 1956; Prose: Procura-se uma Rosa 1961, Para Viver um Grande Amor 1962; numerous translations. *Address:* Rio de Janeiro, RJ, Brazil.

MORALES, Armando; Nicaraguan artist; b. 15 Jan. 1927; ed. Instituto Pedagógico de Varones, Managua, Escuela de Bellas Artes, Managua and Pratt Graphic Art Center, New York; first one-man exhbn. Lima 1959, subsequently at Toronto, New York, Washington, D.C., Panama, Bogotá, Detroit, Caracas, Mexico City; Group exhbns. all over N. and S. America and in Europe; numerous awards for painting in the Americas including Carnegie Int. 1964, and award at Arte de América y España Exhbn., Madrid. *Address:* 32 West 82nd St. (3B), New York, N.Y. 10024, U.S.A. *Telephone:* 799-2539.

MORALES BERMÚDEZ, Gen. Francisco: Peruvian army officer and politician; b. 4 Oct. 1921, Lima; grandson of the late Col. Remiro Morales (President of Peru, 1890-94); m. Rosa Pedraglio de Morales Bermúdez; four s. one d.; ed. Chorillos Mil. School; founder mem. Dept. of Research and Devt., Army Gen. Staff; taught at School of Eng. and at Army Acad. of War; Chief of Staff of First Light Div., Tumbes; Asst. Dir. of Logistics, Dir. of Econ., War Ministry; advanced courses at Superior Acad. of War, Argentina, and Centre for Higher Mil. Studies, Peru; appointed to reorganize electoral registration system 1962; Minister of Econ. and Finance 1968-74; Chief of Army Gen. Staff 1974-75: Prime Minister, Minister of War and Commdr.-Gen. of Army Feb.-Aug. 1975; Pres. of Peru Aug. 1975-. *Address:* Oficina del Presidente, Lima, Peru.

MORAN, 2nd Baron (cr. 1943), of Manton; **(Richard) John McMoran Wilson,** C.M.G.; British diplomatist; b. 22 Sept. 1924; s. of late Sir Charles McMoran Wilson, 1st Baron Moran; m. Shirley Rowntree Harris 1948; two s one d.; ed. Eton, King's Coll., Cambridge; served in World War II; H.M.S. Belfast 1943, Sub-Lieut. R.N.V.R. in H.M. Destroyer Oribi 1944-45; Foreign Office 1945; Third Sec., Ankara 1948, Tel-Aviv 1950; Second Sec., Rio de Janeiro 1953; First Sec., Foreign Office 1956; Washington, D.C. 1959; Foreign Office 1961; Counsellor, Pretoria 1965; Head of W. African Dept. of Foreign and Commonwealth Office 1968-73; Amb. to Chad 1970-73, to Hungary 1973-76, to Portugal 1976-; Grand Cross of the Order of the Infante (Portugal) 1978. *Publication:* C.B., a Life of Sir Henry Campbell-Bannerman 1973 (Whitbread Award). *Leisure interests:* fishing, fly-tying, bird watching. *Address:* c/o Foreign and Commonwealth Office, London, S.W.1; 26 Church Row, Hampstead, London, N.W.3; and Llewelyn House, Aberedw, Radnorshire, Wales. *Telephone:* 01-435 8717 (Hampstead); Erwood 257 (Wales).

MORAN, Michael; Irish lawyer and politician; b. 25 Dec. 1912, Castlebar, Co. Mayo; s. of Brian Moran and Helen Rowland; m. Máiréad Ní Suibhne 1949; two s. one d.; ed. St. Gerald's Coll., Castlebar, and Univ. Coll., Dublin; admitted Solicitor 1933; mem. Mayo Co. Council 1938-57; Chair. Co. Mayo Cttee. of Agric. for number of years; T.D. South Mayo 1938-; Minister for the Gaeltacht 1957-59, 1961-68; Minister for Lands 1959-68; Minister of Justice 1968-70; Fianna Fáil. *Leisure interests:* shooting, hunting, fishing. *Address:* Ellison Street, Castlebar, Co. Mayo, Ireland. *Telephone:* Castlebar 42.

MORANDI, Luigi, B.SC.; Italian chemical executive; b. 15 May 1898, Milan; Tech. Man. Montecatini Co., Milan 1939-43; Gen. Man. 1945-46, Man. Dir. 1946-49, Vice-Pres. 1949-69 (now Montecatini-Edison); Pres. Lombard Section, Italian Chemical Soc. 1948; Pres. Bd. of Dirs. State Tech. Inst. for Industrial Chemical Experts "Ettore Molinari", Milan 1948-64; Pres. Fed. of Scientific and Tech. Socs. 1960-68, Hon. Pres. 1968-; Vice-Pres. Gen. Council Società Chimica Italiana (Pres. Lombard Section) 1948, Hon. Pres. 1967-; OECD Expert for Examination of Science Policy in France 1964; mem. Lombard Inst., Acad. of Sciences and Arts 1950; Nat. mem. Accademia Pugliese delle Scienze 1964; Officier, Légion d'honneur, numerous medals and decorations. *Publications:* I Funghi (Mushrooms) 1954, Viaggio di un tecnico curioso nella civiltà sovietica (Journey of an Interested Technologist to the Soviet Union) 1961. *Address:* Montecatini-Edison S.p.a., Largo Donegani 1/2, Milan, Italy.

MORAVIA, Alberto; Italian writer and journalist; b. 28 Nov. 1907. Pres. Int. PEN 1959; Ed. Nuovi Argomenti. *Publications* novels: Gli indifferenti 1929, Le Ambizioni Sbagliate 1935, La Mascherata 1941, Agostino 1944, La Romana 1947, La Disubbidienza 1948, L'Amore Coniugale 1949, Il Conformista 1951, Il disprezzo 1954, La Ciociara 1957, La noia 1961, L'Attenzione 1965; plays: Teatro 1958, Beatrice Cenci 1965, Il mondo è quello che è 1966, Il dio Kurt 1967, La Vita è Gioco 1970; short stories: La bella vita 1935, L'Imbroglio 1937, I Sogni del Pigro 1940, L'Amante infelice 1943, L'Epidemia 1945, Due Cortigiane 1945, Racconti Romani 1945, I Racconti 1954, Nuovi Racconti Romani 1959, L'Automa 1963, Una cosa è una cosa 1966, Il Paradiso 1970, Io e lui 1971, Un' altra Vita 1973; essays: La speranza, L'Uomo, Come fine 1965, A quale tribù appartieni 1974; travel: La rivoluzione culturale in Cina 1967. *Address:* Lungotevere della Vittoria 1, Rome, Italy. *Telephone:* 378836.

MORE, Kenneth (Gilbert), C.B.E.; British actor; b. 20 Sept. 1914, Gerrards Cross, Bucks.; s. of Charles Gilbert More and Edith Winifred (née Watkins); m. 1st Beryl Johnstone 1940 (dissolved); m. 2nd Mabel E. Barkby 1952 (dissolved), one d.; m. 3rd Angela J. Douglas 1968; ed. Victoria Coll., Jersey; first stage appearance at Windmill Theatre 1936; R.N.V.R. during Second World War; returned to stage in And no Birds Sing 1946; other stage appearances include Power Without Glory 1947, Peace in Our Time 1948, Out of the Crocodile 1963, Our Man Crichton 1964, The Secretary Bird 1968, The Winslow Boy 1970, Getting On 1972, Signs of the Times 1973, On Approval 1977. British Film Acad., Best Actor Award 1954, Venice Volpi Cup, Best Actor 1955, Picturegoer Award. *Films include:* Scott of the Antarctic, Chance of a Lifetime, Genevieve, Doctor in the House, Raising a Riot, The Deep Blue Sea, Reach for the Sky, The Admirable Crichton, Next to no Time, A Night to Remember, The Sheriff of Fractured Jaw, The Thirty Nine Steps, North West Frontier, Sink the Bismarck!, Man in the Moon, The Greengage Summer, The Longest Day, Some People, We Joined the Navy, The Comedy Man, Dark of the Sun, Battle of Britain, Cinderella, Oh! What a Lovely War, Scrooge, The Slipper and the Rose, Journey to the Centre of the Earth, Leopard in the Snow, The Spacemen and King Arthur. *Television appearances include:* Heart to Heart, The Forsyte Saga 1966-67, Father Brown 1974-75, An Englishman's Castle 1977. *Publications:* Happy go Lucky (autobiog.) 1959, Kindly Leave the Stage 1965, More or Less 1978. *Leisure interests:* golf, underwater swimming. *Address:* Garrick Club, London, England.

MOREAU, Jeanne; French actress; b. 23 Jan. 1928; m. 1st Jean-Louis Richard, one s.; m. 2nd William Friedkin 1977; ed. Collège Edgar-Quinet, Conservatoire national d'art dramatique; stage actress with Comédie Française 1948-52; Théâtre National Populaire 1953; Pres. Cannes Film Festival July 1975; Chevalier, Légion d'honneur, Ordre nat. du Mérite et des Arts et Lettres; since 1954 has appeared on stage in l'heure éblouissante, La machine infernale, Pygmalion, La chatte sur un toit brulant, La bonne soupe, La chevauchée sur le lac de Constance, etc. *Films include:* Touchez pas au grisbi, Le salaire du péché, Ascenseur pour l'échafaud, Les amants, Moderato Cantabile, Les liaisons dangereuses, Dialogue des Carmélites, Jules et Jim, Eve, The Victors, La baie des anges, Peau de banane, Le train, Le journal d'une femme de chambre, Mata Hari—H21, The Yellow Rolls-Royce 1964, Viva Maria 1965, Mademoiselle 1965, Chimes at Midnight 1966, L'amour à travers les âges 1967, The Sailor from Gibraltar 1967, The Bride wore Black 1967, The Great Catherine 1968, Le corps de Diane 1970, Une histoire immortelle, Monte Walsh, L'humeur vagabonde, Comptes rebours 1971, Chère Louise 1972, Jeanne, la Française 1972, Nathalie Granger 1972, Je t'aime 1973, Les valseuses 1973, La race des seigneurs 1973, Pleurs 1974, Le jardin qui bascule 1974, Souvenirs d'en France 1974, Lumière (also dir.) 1976, The Last Tycoon 1976, Mr. Klein 1976, Le Petit Théâtre de Jean Renoir 1976, L'adolescente 1978, Madame Rosa 1978. *Address:* 9 rue de Cirque, 75008 Paris, France.

MOREAU-NÉRET, Olivier, L. en D., L. és L.; French banker; b. 29 Jan. 1892; Inspector of Finances 1919; Deputy Dir. Treasury, Ministry of Finance, Head of Mission to London and Washington for discussion of inter-allied debts 1923-26; Hon. Dir. at Ministry of Finance 1926; Sec.-Gen. then Dir. of Crédit Lyonnais 1926-39; Sec.-Gen. Ministry of Finance 1940; Dir.-Gen., later Pres., of Crédit Lyonnais 1942-62; Prof. Inst. d'Etudes politiques; mem. of Acad. des Sciences morales et politiques; Grand Officier de la Légion d'honneur 1949, Commdr. Order of Léopold, Croix de guerre. *Publications:* La balance des comptes 1936, La Bourse 1938, Les valeurs mobilières 1939, Les contrôles des prix 1942, Les valeurs étrangères 1956, Les valeurs françaises depuis 1940 1957. *Address:* 11 rue Dupont des Loges, 75007 Paris, France.

MORELLI, Gaetano, LL.D.; Italian judge and university professor; b. 23 May 1900; ed. Univ. of Rome; Lecturer in Int. Law, Univ. of Urbino 1927-32; Prof. Univ. of Modena 1932-33, Univ. of Padua 1933-35, Univ. of Naples 1935-51, Univ. of Rome 1951-75, Prof. Emer. 1975-; Judge, Int. Court of Justice 1961-70; mem. Institut de droit international 1950-, First Vice-Pres. 1961-63, Pres. 1971-73- mem. Perm. Conciliation Comm. between Luxembourg and Switzerland 1950-, Higher Council of Public Educ. 1951-58, Perm. Court of Arbitration 1955-, Italian Nat. Comm. for UNESCO 1956-61. *Publications:* La sentenza internazionale 1931, Diritto processuale civile internazionale, La théorie générale du procès international 1937, Lezioni di diritto internazionale privato, Nozioni di diritto internazionale, Elementi di diritto internazionale privato italiano, Studi di diritto processuale civile internazionale 1961, Studi sul processo internazionale 1963, etc. *Address:* Faculty of Law, University of Rome, Rome; Via Lucrezio Caro 67, Rome, Italy.

MORENO MARTINEZ, Alfonso, LL.D.; Dominican professor and diplomatist; b. 8 Dec. 1922, San Francisco de Macorís; m.; five c.; ed. Univ. de Santo Domingo; Founder and first Pres. Partido Revolucionario Social Cristiano 1961; Pres. Fifth Congress of Christian Dem. Org. of America (ODCA) 1969; Prof. of Sociology, Rural Sociology and Introduction to Social Sciences, Autonomous Univ. de Santo Domingo 1963-69; Prof. of Sociology and the History of Culture, Univ. Pedro Henriquez Ureña 1974-75; Perm. Rep. to UN. 1975-78. *Address:* c/o Ministry of Foreign Affairs, San Domingo, Dominican Republic.

MORF, Rudolf, PH.D.; Swiss chemist; b. 10 Nov. 1908, Kyburg, Canton Zürich; m. Irène Keller 1932; one s. three d.; ed. Univ. of Zürich and Oxford Univ.; research chemist, Nestlé Co., later Production Man. of a factory 1934-40; Pharmaceutical dept., Sandoz Ltd., Basel 1941-59; with F. Hoffmann-La Roche & Co. Ltd. 1959-; Sec.-Gen. XIVth Int. Congress of Pure and Applied Chem. 1953-55; Sec.-Gen. of Int. Union of Pure and Applied Chem. (IUPAC) 1956; Sec.-Gen. Swiss Acad. of Sciences 1965-70. *Address:* P.O.B. 165, 8058 Zürich Airport (Office); Kyburg (Canton Zürich), Switzerland (Home).

MORGAN, Graham James; American chemical and industrial executive; b. 19 Sept. 1917- ed. Carleton Coll. U.S.; Gypsum Co. 1939-, Sales 1939-45, man. posts 1945-49, Gen. Merchandise Dir. 1951-53, Vice-Pres. (Merchandising) 1953-54, Vice-Pres. and Asst. to Chair. of Bd. 1954-59, Exec. Vice-Pres. 1959, Pres. and mem. Exec. Cttee. 1960-71, Dir. 1958-, Chief Exec. Officer 1965-71, Chair. and Chief Exec. Officer 1971-; Dir. of numerous other cos. *Address:* United States Gypsum Company, 101 South Wacker Drive, Chicago, Ill. 60606 (Office); 1500 North Lake Shore Drive, Chicago, Ill. 60610, U.S.A. (Home).

MORGAN, Lee Laverne, B.S.; American business executive; b. 4 Jan. 1920, Aledo, Ill.; s. of Laverne Morgan and Gladys Hamilton Morgan; m. Mary Harrington 1942; ed. Univ. of Illinois; joined Caterpillar Tractor Co., various training, sales and advertising 1946-56, Man. Sales Promotion Dept. 1956-61, Vice-Pres. 1961-65, Dir. 1965, Exec. Vice-Pres. 1965-72, Pres. 1972-77; Chair., Chief Operating Officer 1977-; Dir. Commercial Nat. Bank, Cen. Illinois Light Co., First Chicago Corpn. and subsidiary First Nat. Bank of Chicago, Minnesota Mining and Mfg. Co., U.S. Chamber of Commerce, Proctor Community Hosp. of Peoria; Trustee, Monmouth Coll., Ill. *Address:* 100 NE Adams Street, Peoria, Ill. 61629; Home: 7510 North Edgewild Drive, Peoria, Ill. 61614, U.S.A. *Telephone:* 309-675-5311 (Office); 309-691-7744 (Home).

MORGAN, Michèle (pseudonym of Simone Roussel); French actress; b. 29 Feb. 1920; studied with R. Simon (Paris); acted in a large number of films including Quai des brumes, Symphonie pastorale, Fabiola, Les septs péchés capitaux, Les orgueilleux, Obsession, Les grandes manoeuvres, Marguerite de la nuit, Marie Antoinette, Si Paris nous était conté, Le miroir à deux faces, Femmes d'un été, Pourquoi viens-tu si tard? Les scélérats, Fortunat, Le puits aux trois vérités, Les lions sont lâches, Rencontres, Le crime ne paie pas, Landru, Constance aux Enfers, Les yeux cernés, Dis-moi qui tuer, Les centurions, Benjamin, Le chat et la souris 1975; Cannes Festival Prize for the Best Actress 1946; French "Victoire" for Best Actress 1946, 1948, 1950, 1952, 1955; Chevalier, Légion d'honneur, Officier, Ordre nat. du Mérite. *Publication:* Mes yeux ont vu 1965. *Address:* 19 rue Eugène-Manuel, 75016 Paris, France.

MORGAN, Robert Burren, B.J., LL.D.; American lawyer and senator; b. 5 Oct. 1925, Lillington, N.C.; s. of James H. and Alice Morgan; m. Katie Owen; one foster s. two d.; ed. E. Carolina Univ. and Wake Forest Law School; mem. N.C. State Senate for five terms; Attorney-Gen. N.C. 1969-74; U.S. Senator for North Carolina Jan. 1975-; Wyman Award 1974; Democrat. *Address:* Senate Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* (202) 224-3154.

MORGAN, Walter Thomas James, C.B.E., PH.D., D.SC., D.SC.TECH., F.R.I.C., F.R.S.; British biochemist; b. 5 Oct. 1900, London; s. of Walter Morgan and Annie E. James; m. Irene Price 1930; one s. two d.; ed. Univs. of London, Graz and Zürich; Grocers' Co. Research Student 1925-26; Beit Medical Research Fellow 1926-28; Biochemist and First Asst. to Serum Dept., Lister Inst., Elstree 1929-36; Rockefeller Research Fellow 1936-37; mem. of staff of Lister Inst., London 1928-68, Prof. of Biochemistry 1951-68, Emer. Prof. 1968, Dir. Lister Inst. 1972-75; Hon. Sec. Biochemical Soc. 1940-45, Biological Council 1944-47; mem. Govt. Scientific Advisory Council 1955-59, mem. Medical Research Council 1966-70; Croonian Lecturer Royal Soc. 1959; Vice-Pres. Royal Soc. 1961-64; M.D. h.c. (Basel), D.Sc. h.c. (Mich.); Conway Evans Prize (Royal Soc. and Royal Coll. Physicians) 1964, Karl Lansteiner Prize American Assn. of Blood Banks 1967, Paul Ehrlich Prize 1968, Royal Medal (Royal Soc.) 1968. *Address:* 57 Woodbury Drive, Sutton, Surrey, England.

MORGAN, William Wilson, PH.D.; American astronomer; b. 3 Jan. 1906, Bethesda, Tenn.; s. of William T. and Mary W. Morgan; m. 1st Helen M. Barrett 1928 (deceased), 2nd Jean D. Eliot 1966; one s. one d.; ed. Washington and Lee Univ. and Univ. of Chicago; Man. Ed. The Astrophysical Journal 1947-52; Dir. of Yerkes and McDonald Observatories 1960-63; Chair. Dept. of Astronomy, Univ. of Chicago 1960-66, Bernard E. and Ellen C. Sunny Distinguished Prof. of Astronomy 1966-74, Prof. Emeritus 1974-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Pontifical Acad. of Sciences, Royal Danish Acad. of Sciences and Letters, Soc. Royale des Sciences de Liège; Corresp. mem. Nat. Acad. of Sciences of Argentina; Ph.D. h.c. (Cordoba); Bruce Gold Medal of Astronomical Soc. of the Pacific 1958. *Publications:* An Atlas of Stellar Spectra (with P. C. Keenan and Edith Kellman) 1943; numerous research articles in professional journals. *Address:* Yerkes Observatory, Williams Bay, Wis. 53191; Parkhurst Place, Williams Bay, Wis. 53191, U.S.A. (Home). *Telephone:* 414-245-5555 (Office); 414-245-5839 (Home).

MORGENS, Howard J(oseph), A.B., M.B.A.; American businessman; b. 16 Oct. 1910; ed. Washington Univ. and Harvard Business School; with Proctor and Gamble Co. 1933-, Advertising Man. 1946, Vice-Pres. (Advertising) 1948, Dir. 1950-, Exec. Vice-Pres. 1954, Pres. 1957-71, Chair. of Bd. 1971-74, Chair, Exec. Cttee. of Bd. of Dirs. 1974-77, Chair. Emer. 1977-; Dir. Gen. Motors Corpn., Morgan Guaranty Trust Co. of N.Y., J. P. Morgan Co., Communications Satellite Corpn. Dir. and fmr. Chair. Advertising Council; Hon. LL.D. (Washington and Miami Univs. and Univ. of Cincinnati), Hon. Dr. of Humanities (Xavier Univ.). *Address:* c/o Procter and Gamble, Cincinnati, Ohio 45202, U.S.A.

MORGHEN, Raffaello; Italian university professor and writer; b. 19 Sept. 1896, Rome; s. of Guglielmo Morghen and Matilde Cecchini; m. Gemma Calisti 1923 (died 1968); two d.; ed. Univ. degli Studi, Rome; teacher of history 1923-30; Prof. Modern History, Univ. of Rome 1930-33; Ed. Modern History Section Enciclopedia Italiana 1932-37; Prof. Medieval History, Univ. of Palermo 1938-41; Prof. Modern History, Univ. of Perugia 1942-48, then Prof. Medieval History, Univ. of Rome; Chancellor Accad. dei Lincei 1927-59; Pres. Italian Medieval Historical Inst. 1953-; Foreign Assoc. Institut de France; mem. various academies including Accad. Naz. dei Lincei; several honours. *Publications:* Il Tramonto della potenza sveva in Italia 1936, Gregorio VII 1939, Medioevo cristiano 1951, La formazione degli Stati Europei 1959, L'Idea d'Europa 1960, Profilo storico della Civiltà Europea 1966, Repertorium Fontium Medii Aevi (ed.), Vol. I 1962, Vol. II 1967, Vol. III 1970, Vol. IV 1976, Civiltà medievale al tramonto 1974, L'Età degli Svevi in Italia 1974. *Address:* Istituto Storico Italiano per il Medio Evo, Piazza Dell' Orologio 4, 00186 Rome; Via del Mascherino 72, 00193 Rome, Italy (Home). *Telephone:* 06/6543709.

MORI, Haruki; Japanese diplomatist; b. 1911; m. Tsutako Masaki 1941; four s.; ed. Univ. of Tokyo; Ministry of Foreign Affairs, served U.S.A. and Philippines 1935-41; Head of Econ. Section, Dept. of Political Affairs 1950-53; Counsellor Rome 1953-55; Counsellor Asian Affairs Bureau, Tokyo 1955-56; Private Sec. to Prime Minister 1956-57; Deputy Dir.-Gen. Econ. Affairs Bureau 1957; Dir.-Gen. of American Affairs Bureau 1957-60; Minister to U.K. 1960-63, to France 1963-64; Amb. to OECD 1964-67; Deputy Vice-Minister for Foreign Affairs 1967-70, Vice-Minister 1970-72; Amb. to U.K. 1972-75; Adviser to Ministry 1975-. *Address:* Ministry of Foreign Affairs, Tokyo, Japan.

MORICE, André; French politician; b. 11 Oct. 1900, ed. Nantes Lycée and Univ. of Paris; in business 1931-39; served army 1939-44; Town Councillor for Nantes 1945-, Asst. to Mayor 1945-47, Deputy for Loire Inférieure 1945-58; Under-Sec. for Tech. Educ., Schuman Govt. 1947-48, Marie Govt. 1948; Sec. of State for Tech. Educ. and Sports in Queuille Govt. 1949, Bidault Govt. 1949-50, Pleven Govt. 1950-51, Queuille Govt. 1951; Minister of Nat. Educ., Queuille Govt. July 1951; Minister of the Merchant Marine, Pleven Govt. 1951-52, Faure Govt. 1952; Minister of Public Works, Travel and Tourism, Pinay Govt. 1952 and Mayer Govt. 1953; Dir. Eclair de l'Ouest 1954; Minister of Industry and Commerce, Faure Govt. 1955-56; Minister of Nat. Defence 1957-58; Mayor of Nantes 1965-77; Senator for Loire-Atlantique 1965-; Pres. Assen. Française pour la Promotion du Travail, Mouvement Libéral pour l'Europe Unie; Croix de guerre; Chevalier Légion d'honneur. *Address;* Le Sénat, 75006 Paris; (Home) 13 boulevard Raspail, 75007 Paris, France.

MORIN, Jean, L. en DR.; French civil servnat; b. 23 June 1916, Melun; m. Janine Lamourouy 1942; one s. two d.; ed. Ecole Libre des Sciences Politiques; Sec.-Gen. Inst. Scientifique des Recherches Economiques et Sociales 1939- Auditeur, Cour des Comptes 1941; Dir. of Personnel, Ministry of the Interior 1944, Prefect, Manche 1946; Deputy Dir. du Cabinet to Pres. of Provisional Govt. 1946, to Minister of Foreign Affairs 1947-48; Tech. Adviser, Minister of the Interior 1948-49; Prefect, Maine-et-Loire 1949; Conseiller Référendaire, Cour des Comptes 1949; Prefect, Haute-Garonne and Extraordinary Insp.-Gen. of Admin. (5th Region) 1958-60; Del.-Gen. in Algeria 1960-62; Sec.-Gen. of Merchant Navy 1962-68; Pres. Société auxiliaire minière du Pacifique (Saumipac) 1968-72; Pres. Compagnie française industrielle et minière du Pacifique 1969-72; Admin. Publicis S.A. 1970-, Vice-Pres. 1972-, Admin, Publicis Conseil 1970-; Pres. Communication et Publicité 1972-, Intermarco 1974-; Pres., Dir.-Gen. Régie-Presse 1974-; Commdr. Légion d'honneur, Croix de guerre, Médaille de la Résistance. *Leisure interest:* bridge. *Address:* 133 avenue des Champs-Elysées, 75008 Paris; 107 avenue Henri-Martin, 75016 Paris, France.

MORINAGA, Teiichiro; Japanese financier and banker; b. 9 Sept. 1910, Miyazaki Prefecture; s. of Sadauemon Morinaga and Nobu Kishita; m. Takako Tawara 1936; one s. one d.; ed. Tokyo Imperial Univ.; Ministry of Finance 1932-59, Deputy Vice-Minister of Finance 1949-53, Dir. Budget Bureau 1953-57, Admin. Vice-Minister of Finance 1957-59; Pres. Small Business Finance Corpn. 1961-62; Gov. The Export-Import Bank of Japan 1962-67; Pres. Tokyo Stock Exchange 1967-74; Gov. The Bank of Japan 1974-. *Address:* The Bank of Japan, 2-2-1 Hongokucho, Nihonbashi, Chuo-ku, Tokyo; 6-23-18 Honkomagome, Bunkyo-ku, Tokyo, Japan (Home).

MORINIGO, Gen. Higinio; Paraguayan officer and politician; b. 1897, Paraguarí; ed. Colegio Nacional and Escuela Militar, Asunción; 2nd Lieut. 1919, served Northern Operational Dept. and 2nd and 3rd Infantry Regts. to 1928; Capt. 1927; War Coll., apptd. Staff Maj. Battn. Commdt. Mil. School 1932; Dir. Reserve School; served Chaco War; fmr. Chief of Staff to Commdr.-in-Chief, Ministry of War and Marine and Ministry of Interior; Gen. 1943; Pres. of Republic 1940-48; exiled in Argentina 1948-51, Brazil 1951-56; returned to Paraguay 1956, now living in Argentina; Cruz del Chaco, Cruz del Defensor and many other decorations; Dr. h.c. (Fordham and Brazil Univs.). *Address:* Calle General Urguiza 625-Acassuso, Buenos Aires, Argentina. *Telephone:* 792-4823.

MORITA, Akio; Japanese business executive; b. 26 Jan. 1921, Nagoya; s. of S. Kyuzaemon and Shuko (Toda) Morita; m. Yoshiko Kamei 1950; two s. one d.; ed. Osaka Imperial Univ.; Co-Founder, SONY Corpn., Tokyo 1946, Exec. Man. Dir. 1958-59, Exec. Vice-Pres. 1959-71, Pres. 1971, Pres. and Chief Exec. Officer 1971-76, Chair. of Bd. and Chief Exec. Officer 1976-; Pres. SONY Corpn., America 1960-66, Chair. of Bd. 1966-74, also Pres. 1968-71; Chair. Exec. Cttee. SONY Corpn. of America 1974-77, Finance Cttee. 1977-; Dir. IBM World Trade Americas/Far East Corpn. 1972-77; mem. Int. Council, Morgan Guaranty Trust Co.; Edwardo Rihan Award for Int. Marketing 1969. *Publications:* Gakureki Muyouron 1966, Shin Zitsuryoku Shugi 1969. *Leisure interests:* listening to music, playing golf. *Address:* SONY Corporation, 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo, Japan. *Telephone:* 03-448-2002.

MORIYA, Gakuji; Japanese business executive; b. 1 June 1907, Okayama Prefecture; m. Yoshiko Tsukada 1939; one s. two d.; ed. Tokyo Imperial Univ.; worked for Mitsubishi Aircraft Co. Ltd. 1930-34, Mitsubishi Heavy Industries Ltd. 1950-52, Central Japan Heavy Industries Ltd. 1950-52, Shin Mitsubishi Heavy Industries Ltd. 1952-64, Dir. 1961-62, Man. Dir. 1962-64; Man. Dir., Mitsubishi Heavy Industries Ltd. 1964-69, Exec. Vice-Pres. 1969-73, Pres. 1973-77, Chair. 1977-; First Order of the Sacred Treasure 1977; Blue Ribbon Medal 1971. *Leisure interest:* golf. *Address:* 5-1, 2-chome, Marunouchi, Chiyoda-ku, Tokyo (Office); 17-1, 6-chome, Shimouma, Setagaya-ku, Tokyo, Japan (Home). *Telephone:* 03-212-3111 (Office): 03-421-2084 (Home).

MORLEY, Grace L. McCann, M.A., D. DE L'UNIV. DE PARIS; American art historian and museum director; b. 3 Nov. 1900; ed. Calif., Paris, Grenoble and Harvard Univs.; Instructor in French, later in History of Art, Goucher Coll., Baltimore 1927-30; Curator, Cincinnati Art Museum 1930-33; Dir. San Francisco Museum of Art 1935-60; Asst. Dir. Solomon R. Guggenheim Museum 1959-60; Dir. Nat. Museum of India 1960-66; Head ICOM Regional Agency in Asia 1967-; Pacific House Golden Gate Int. Exposition, San Francisco 1940; Advisory Cttee. on Art, State Dept. Div. of Cultural Relations 1941-44; Pres. Western Assen. of Art Museum Dirs. 1939-40; mem. American Assen. Art Museum Dirs., Vice-Pres. 1952-53, Pres. 1954-55; mem. American Fed. of Arts, Vice-Pres. 1939-51; Pres. Western Museums Conf. 1946-48; Editorial Bd. UNESCO Museum; Museums Consultant to UNESCO 1946 and 1952; Head of Museums UNESCO, Paris 1947-49; Dir. UNESCO Int. Seminar on Museums and Educ., Athens 1954- Pres. Museums Assen. of India 1962-66; Vice-Chair. Govt. of India Cen. Advisory Bd. of Museums, Adviser on Museums, Ministry of Educ. (India) 1966-; mem. American Assen. of Museums, College of Art Assc., Int. Council Museums of G.B.; Fellow, Royal Soc. of Arts, Museum Assen. of India; mem. U.S. Nat. Comm. for UNESCO 1950-55; Watumull Award, India 1962; Hon. D.F.A., Hon. LL.D., Hon. D. Hum. Litt.; Chevalier de la Légion d'honneur 1949. *Address:* ICOM Agency, 3/4 Sapru House Annexe, New Delhi I, India.

MORLEY, Robert, C.B.E.; British actor and dramatist; b. 26 May 1908, Semley, Wilts.; s. of Major Robert Morley and Gertrude Emily (née Fass); m. Joan Buckmaster (d. of the late Dame Gladys Cooper, D.B.E.) 1940; two s. one d.; ed. Wellington Coll.; stage debut at Margate, Kent 1928; London stage debut 1929; first appearance in New York 1938; appeared in provinces and established repertory company with Peter Bull at Perranporth, Cornwall. *Plays include:* The Great Romancer 1937, Pygmalion 1937, The Man Who Came to Dinner 1941, The First Gentleman 1945, Edward My Son (also co-author with Noel Langley) 1947, The Little Hut 1950, Hippo Dancing 1954, A Likely Tale 1956, Fanny 1957, Hook, Line and Sinker 1958, A Majority of One 1960, A Time to Laugh 1962, Halfway Up the Tree 1968, How the Other Half Loves 1970, A Ghost on Tiptoe (also co-author with Rosemary Anne Sisson) 1974, Banana Ridge 1976, etc.: dir. The Tunnel of Love 1957, Once More with Feeling 1959. *Films since 1937 include:* Marie Antoinette 1938, Major Barbara 1940, The Young Mr. Pitt 1942, The Outcast of the Islands 1951, The African Queen 1952, Gilbert and Sullivan 1953, Beat the Devil 1953, Loser Takes All, Law and Disorder, The Journey, The Doctor's Dilemma 1959, Libel 1959, The Battle of the Sexes 1960, Oscar Wilde 1960, Murder at the Gallop 1963, Those Magnificent Men in their Flying Machines 1965, The Loved One 1965, The Alphabet Murders 1965, Hot Millions 1968, Sinful Davey 1969, Song of Norway 1970, Cromwell 1971, When Eight Bells Toll 1971, Theatre of Blood 1973, Great Expectations, The Blue Bird 1976. *Publications:* Goodness How Sad 1937, Staff Dance 1944, Edward My Son (with Noel Langley) 1948, The Full Treatment (with Ronald Gow) 1952, Hippo Dancing 1954, Six Months Grace (with D. Hamilton) 1957, Robert Morley: Responsible Gentleman (with Sewell Stokes) 1966, A Musing Morley 1974, Morley Marvels 1976, More Morley 1978, Robert Morley's Book of Bricks 1978. *Leisure interests:* conversation, horse racing. *Address:* Fairmans, Wargrave, Berkshire, England.

MORLEY, Roger Hubert, B.S., M.B.A.; American business executive; b. 21 June 1931, Cleveland, Ohio; s. of Hubert and Ayleen (Mosier) Morley; m. Barbara Abt 1976; two s. three d.; ed. Ohio Univ., Harvard Graduate School of Business; Controller, Commercial Products Div., Stromberg-Carlson, Rochester, N.Y. 1957-60; Pres. Parker-Kalon Div., Gen. American Transportation Corpn., Chicago, Ill. 1968-74, Gen. Man. Terminals Div. 1966-67; Vice-Pres. and Gen. Man. Burndy Corpn., Norwalk, Conn. 1967-68; Exec.

Vice-Pres. and Dir. Gould Inc., Chicago, Ill. 1968-74; Exec. Vice-Pres. Financial Admin., American Express Co., New York 1974-75, Vice-Chair. 1975-77, Pres. 1977-; Dir. Lincoln Center for Performing Arts Inc. 1976, Visiting Nurse Service of N.Y. 1974, McGraw-Hill Inc. 1977, Western Electric 1977; Trustee, Barnard Coll. 1975. *Leisure interest:* tennis. *Address:* American Express Plaza, New York, N.Y. 10004 (Office); 1020 Fifth Avenue, New York, N.Y. 10028, U.S.A. (Home). *Telephone:* (212) 480-3535.

MORO, Vincenzo; Italian industrial executive; b. 26 Jan. 1922, Sartirana Lomellina, Pavia; s. of Paolo Moro and Carmelita Gei; m. Gianna Tagliabue 1948; one s. one d.; with Naclon Farmaceutici 1937; joined Filotecnica Salmoiraghi 1939, Sales Dir. 1954-59; Deputy Dir. Alfa Romeo S.p.A. 1959, Special Affairs Dir. 1960, Sales Dir. 1962. Deputy Gen. Man. 1969, Man. Dir. and Gen. Man. 1974-78; Chair. Autodelta S.p.A. *Address:* c/o Alfa Romeo S.p.A., Via Gattamelata 45, Milan, Italy. *Telephone:* (02) 93391.

MOROSS, Manfred David, B.SC., M.B.A.; South African business executive; b. 30 Aug. 1931; s. of Dr. H. Moross and A. Moross; m. Edna Fay Jacobson 1956; three s. one d.; ed. Witwatersrand and Harvard Univs. Chair. Schlesinger Ltd., Schlesinger European Investments Ltd., Trident Gen. Insurance Co. Ltd., Trident Life Assurance Co. Ltd., U.K. Property Co. Ltd., Hanover Acceptances Ltd., Schlesinger Investment Man. Services Ltd. *Leisure interests:* tennis, reading. *Address:* P.O. Box 182, 16 Hans Road, London S.W.3 1RS (Office); Bolney Gate, Ennismore Gardens, London, S.W.7, England (Home). *Telephone:* 01-581 1477 (Office); 01-589 9020 (Home).

MOROZOV, Platon Dmitriyevich, D.IUR.; Soviet lawyer and diplomatist; b. 1906, St. Petersburg (now Leningrad); ed. Leningrad Law Inst; practised as Barrister and held high posts in office of Procurator of the U.S.S.R. until 1949; Diplomatic Service 1949-70, Deputy Chief, Treaty and Legal Dept. of Ministry of Foreign Affairs 1949-60; U.S.S.R. Rep. on UN Comm. for Human Rights and Del. to numerous Sessions of UN Gen. Assembly 1951-68; Deputy Rep. of U.S.S.R. on Security Council of UN and Deputy Perm. Rep. to UN 1960-68; Judge, Int. Court of Justice, The Hague 1970-; mem. of U.S.S.R. Del. at Int. War Tribunal, Tokyo 1946; Rep. of U.S.S.R. on UN Special Cttee. for the Preparation of the Convention on Prevention and Punishment of the Crime of Genocide; numerous other UN missions. *Publications:* works and articles on legal questions. *Address:* International Court of Justice, Peace Palace, The Hague 2012, Netherlands.

MORREY, Charles Bradfield, Jr., PH.D.; American mathematician; b. 23 July 1907, Columbus, Ohio; s. of Charles Bradfield and Grace (Jones) Morrey; m. Frances E(leanor) Moss 1937; two s. one d.; ed. Ohio State Univ., Harvard Univ.; mem. Faculty, Univ. of Calif. at Berkeley 1933, Prof. of Maths. 1945-73, Chair. of Dept. 1949-54, 1957-58; Mathematician Aberdeen Proving Ground 1942-45; Nat. Research Council Fellow 1931-33; mem. Nat. Acad. of Sciences, American Mathematical Soc. (Pres. 1967-68), American Acad. of Arts and Sciences. *Publications:* University Calculus 1962, First Course in Calculus (with Murray H. Protter) 1964, Modern Mathematical Analysis (with Murray H. Protter) 1964, Multiple Integrals in the Calculus of Variations 1966, Analytic Geometry 1966, Calculus for College Students 1967; also research articles. *Address:* 210 Yale Avenue, Berkeley, Calif. 94708, U.S.A.

MORRILL, James Lewis, A.B.; American educator; b. 24 Sept. 1891, Marion, Ohio; s. of Harrison Delmont and Mary Lewis Morrill; m. Freda Rhodes 1915; one s. two d.; ed. Ohio State Univ.; newspaperman 1913-19; Exec. Sec. U.S. Food Admin. in Ohio and Ohio Branch, Council of Nat. Defence 1917-19; Alumni Sec. and Ed. Ohio State Univ. 1919-28; Instructor in Journalism and Educ. 1925-29; Jr. Dean Coll. of Educ. 1928-32 and Vice-Pres. 1932-41; Pres. Univ. of Wyo. 1942-45, Univ. of Minn. 1945-60; Pres. Assn. Land Grant Coll. and State Univs. 1947-48, Chair. Nat. Defence Cttee. 1952-54, mem. 1955-57, mem. Cttee. on Govt. Controls of Higher Educ. 1957-58, Chair. 1959; Chair. American Council on Educ. 1950-51, Chair., Cttee. on Relationships of Higher Educ. to Fed. Govt. 1951-56; mem. Comm. on Educ. and Int. Affairs 1957-59; Consultant Co-ordination of Exchange of Persons Programmes of Int. Educational Exchange Service and Int. Co-operation Admin. Dept of State 1955-56; Vice-Pres. Assn. of American Univs. 1952-54, Pres. 1954-56; Pres. Nat. Assn. of State Univs. 1957-58; mem. Bd. of Trustees Inst. of Int. Educ. 1957-60; mem. Bd. of Dirs. Educational Facilities Lab. (Ford Foundation) 1957-; Chair. Ford Foundation Cttee. on the Univ. and World Affairs 1959-60; Hon. LL.D. (Miami, Ohio State, Wyoming, Cincinnati and North-western Univs., Univs. of Exeter (England) and Calif. at Los Angeles, Carleton and Macalester Colls., Iowa State Coll., Michigan State Univ., Wisconsin, Minnesota and Hamline Univs.), L.H.D. (Muhlenburg Coll.): Commdr. Royal Order of North Star (Sweden) 1956. *Address:* 1752 Ardleigh Road, Columbus, Ohio 43221, U.S.A. *Telephone:* 451-6749.

MORRIS, Benjamin Stephen, B.SC., M.ED.; British educationist and psychologist; b. 25 May 1910, Sherborne, Dorset; s. of Rev. Benjamin Stephen and Annie (McNicol) Morris; m. Margaret Lamont 1938; two s. one d.; ed. Rothesay Acad., Isle of Bute, and Univ. of Glasgow; Asst. Master Glasgow schools 1936-38; Lecturer in Psychology, Logic and Ethics, Jordanhill Training Coll., Glasgow 1939-40, in Educ., Univ. of Glasgow 1940-46; Statistical and Intelligence Officer, Ministry of Food 1941-42; Research Psychologist, War Office Selection Bds. 1942-45, Sr. Psychologist (Lt.-Col.) 1945; Sr. Staff, Tavistock Inst. of Human Relations 1946-50 and Chair. Man. Cttee. 1947-48; Student, Inst. of Psychoanalysis, London 1946-50; Dir. Nat. Foundation for Educational Research in England and Wales 1950-56, Prof. of Educ., Univ. of Bristol 1956-75, Emer. Prof. 1975-, Dir. Inst. of Educ. 1956-68, Dir. Div. of Advanced Studies and Higher Degrees, Univ. of Bristol, School of Educ. 1968-75. *Publications:* Objectives and Perspectives in Education—Studies in Educational Theory 1972, Some Aspects of Professional Freedom of Teachers—an International Pilot Inquiry UNESCO 1977. *Leisure interests:* music, theatre, living in the country. *Address:* Bracken Hill, Wrington, Bristol, BS18 7PN, England. *Telephone:* Wrington 862261.

MORRIS, Desmond John, B.SC., D.PHIL.; British zoologist; b. 24 Jan. 1928, Purton, Wilts.; s. of Capt. Harry Howe Morris and Marjorie (née Hunt); m Ramona Joy Baulch 1952; one s.; ed. Dauntsey's School, Wilts., Birmingham Univ. and Oxford Univ. Head of Granada TV and Film Unit at Zoological Soc. of London 1956-59; Curator of Mammals at Zoological Soc. of London 1959-67; Dir. Inst. of Contemporary Arts, London 1967-68; now Research Fellow at Wolfson Coll., Oxford and privately engaged in writing books on animal and human behaviour. *Publications:* The Ten-spined Stickleback 1958, The Biology of Art 1962, The Mammals: A Guide to the Living Species 1965, Men and Snakes (With (with Ramona Morris) 1965, Men and Apes (with Ramona Morris) 1966, Men and Pandas (with Ramona Morris) 1966, Primate Ethology (Editor) 1967, The Naked Ape 1967, The Human Zoo 1969, Patterns of Reproductive Behaviour 1970, Intimate Behaviour 1971, Manwatching: A Field-Guide to Human Behaviour 1977, Gestures, Their Origins and Distribution 1979, Animal Days (autobiography) 1979. *Leisure interests:* painting and archaeology. *Address:* Wolfson College, Oxford, England. *Telephone:* (0865) 53085.

MORRIS, James (Humphrey) (*see* Morris, Jan).

MORRIS, Jan, F.R.S.L.; British writer; b. 2 Oct. 1926; editorial staff The Times 1951-56, editorial staff The Guardian 1957-62; Commonwealth Fellowship, U.S.A. 1954; George Polk Memorial Award for Journalism (U.S.A.) 1961; mem. Yr Academi Gymreig; Heinemann Award for Literature 1961. *Publications:* ■ James Morris, Coast to Coast 1956, Sultan in Oman 1957, The Market of Seleukia 1957, Coronation Everest 1958, South African Winter 1958, The Hashemite Kings 1959, Venice 1960, The Upstairs Donkey (for children) 1962, The Road to Huddersfield 1963, Cities 1963, The Presence of Spain 1964, Oxford 1965, Pax Britannica 1968, The Great Port 1970, Places 1972, Heaven's Command 1973, Farewell the Trumpets 1978; as Jan Morris, Conundrum 1974, Travels 1976, The Oxford Book of Oxford 1978. *Address:* Trefan Morys, Llanystumdwy, Criccieth, Gwynedd, Wales.

MORRIS, John, C.B.E., M.A., M.SC.; British author and broadcaster; b. 27 Aug. 1895, Gravesend, Kent; s. of late Frank and Julia Morris; ed. King's Coll., Cambridge; served in Regular Army (3rd Q.A.O. Gurkha Rifles) 1915-33; William Wyse Student, Univ. of Cambridge 1934-37; Prof. of English, Keio Univ., Tokyo 1938-42; Talks Producer, B.B.C. Eastern Service 1943, Head of B.B.C. Far Eastern Service 1944-52; Controller, B.B.C. Third Programme 1952-58; mem. Mount Everest Expeditions 1922 and 1936; Murchison Memorial Award, Royal Geographical Society, for explorations in Central Asia 1929. *Publications:* Living with Lepchas 1938, Traveller from Tokyo 1943, The Phoenix Cup 1947, From the Third Programme (Ed.) 1956, Hired to Kill 1960, A Winter in Nepal 1963, Eating the Indian Air 1968. *Leisure interests:* music, reading. *Address:* 21 Friday Street, Henley-on-Thames, Oxon., England. *Telephone:* 049-12 4369.

MORRIS, Rt. Hon. John, P.C., Q.C., M.P.; British barrister and politician; b. 5 Nov. 1931, Aberystwyth; s. of the late D. W. Morris; m. Margaret M. Morris J.P. 1959; three d.; ed. Ardwyn, Aberystwyth, Univ. Coll. of Wales, Aberystwyth, Gonville and Caius Coll., Cambridge, and Acad. of Int. Law, The Hague; commissioned Royal Welch Fusiliers and Welch Regt.; Called to Bar, Gray's Inn 1954; Labour M.P. for Aberavon Oct. 1959-; Parl. Sec. Ministry of Power

1964-66; Joint Parl. Sec. Ministry of Transport 1966-68; Minister of Defence for Equipment 1968-70; Sec. of State for Wales 1974-79; Shadow Attorney-Gen. June 1979-; fmr. Deputy Gen. Sec. and Legal Adviser, Farmers' Union of Wales; mem. U.K. Del., Consultative Assembly, Council of Europe and Western European Union 1963-64; Chair. Nat. Pneumoconiosis Joint Cttee. 1964-66, Nat. Road Safety Advisory Council 1967-68, Joint Review of Finances and Man. British Railways 1966-67; mem. North Atlantic Ass. 1970-74; mem. Courts of Univ. Colls., Aberystwyth, Swansea and Cardiff. *Leisure interest:* agriculture. *Address:* House of Commons, London, S.W.1, England.

MORRIS, Sir Philip Robert, K.C.M.G., C.B.E., M.A., LL.D.; British educationist; b. 6 July 1901, Hildenborough, Kent; s. of M. Charles and Jane Morris (née Brazier); m. Florence Redvers Davis (née Green) 1926; two s. one d.; ed. Tonbridge School, St. Peter's, York, and Trinity Coll., Oxford; Lecturer in History and Classics Westminster Training Coll. 1923-25; Admin. officer Kent Educ. Cttee., Asst. Dir. 1932, Dir. 1938-44; Educational Adviser H.M. Prisons 1938-44; Dir.-Gen. of Army Educ. 1944-46; Vice-Chancellor Univ. of Bristol 1946-66; Vice-Chair. British Council 1946-59; Chair Secondary School Exams. Council 1948-51; National Advisory Council on Training and Supply of Teachers 1947-59; Life Trustee Carnegie U.K. Trust; Chair. B.B.C. West Regional Advisory Council 1947-52, Vice-Chair. 1961-68; Gov. of B.B.C. 1952-60 (Vice-Chair. 1954-60); Chair. Man. Cttee. Theatre Royal Bristol 1946-63, Cttee. of Vice-Chancellors and Principals of the Univs. of the U.K. 1955-58; Chair. Bristol Old Vic Trust Ltd. 1963-71, Pres. 1971-; mem. Exec. Council Assen. of Commonwealth Univs., Vice-Chair. 1951-55; Pres. Library Assen. 1955; Vice-Chair. United Bristol Hosp. Bd. 1948-66; Chair. Commonwealth Educ. Conf. 1959, Commonwealth Educ. Liaison Cttee. 1959-62; Hon. F.R.C.S., Hon. A.R.C.V.S. *Address:* Bryncoedifor Vicarage, Rhydymain, Gwynedd, LL40 2AN, Wales. *Telephone:* Rhyd 237.

MORRIS, Sir Willie, K.C.M.G.; British diplomatist (retd.); b. 3 Dec. 1919, Dewsbury, Yorks.; s. of George William and Sarah Morris; m. Ghislaine Margaret Trammell 1959; three s.; ed. Batley Grammar School, Yorks., and St. John's Coll., Oxford; service in Royal Navy 1940-45; joined Foreign Service 1947; Third Sec., Middle East Centre for Arab Studies 1947, Second Sec., Cairo 1948-51, First Sec. 1951; Foreign Office 1952-54; course of Canadian Defence Coll. 1954; served Washington, D.C. 1955-60; Counsellor, Amman 1960-63; Head of Eastern Dept. of Foreign Office 1963-67; Fellow, Center for Int. Affairs, Harvard Univ. 1966-67; Amb. to Saudi Arabia 1968-72, non-resident Amb. to Yemen Arab Repub. 1971; Amb. to Ethiopia 1972-75, to Egypt 1975-79. *Address:* 33 Heathside Road, Woking, Surrey, England.

MORRIS, Willie, B.A., M.A.; American editor and writer; b. 29 Nov. 1934, Jackson, Miss.; s. of Henry Rae and Marian Weaks Morris; m. Celia Buchan 1958; one s.; ed. Yazoo City High School, Mississippi, Univ. of Texas and New College, Oxford; Ed.-in-Chief The Texas Observer 1960-62; Executive Ed. Harper's Magazine 1965-67, Ed.-in-Chief 1967-67; Rhodes Scholarship 1956; Fellow, Silliman Coll., Yale Univ.; Houghton-Miflin Literary Fellowship Award 1967; several hon. degrees. *Publications:* The South Today, 100 Years After Appomatox (Ed.) 1966, North Toward Home 1967, Yazoo: Integration in a Deep Southern Town 1971, The Last of the Southern Girls 1973, Good Old Boy 1973. *Address:* Box 702, Bridgehampton, N.Y., U.S.A.

MORRISON, William Lawrence, B.ECONS.; Australian politician; b. 3 Nov. 1928; ed. North Sydney Technical High School, Univ. of Sydney, London School of Slavonic and East European Studies; joined Australian Diplomatic Service 1950; Australian Embassy, Moscow 1952-54; Econ. Relations Branch, Dept. of External Affairs 1954-57; Australian Embassy, Bangkok, concurrently Liaison Officer UN Econ. Comm. for Asia, Chair. SEATO Cttee. on Soviet Econ. Penetration in Asia and Far East 1957-61; Australian Embassy, Washington 1959-61, Moscow 1961-63; Head, Information and Cultural Relations Branch, Dept. of External Affairs 1963-66; Deputy High Commr. to Malaysia 1967-68; mem. Parl. for St. George, N.S.W. 1969-75; Deputy Chair. Joint Parl. Foreign Affairs Cttee. 1969-72; Minister for Science 1972-75, and External Territories 1972-73; Asst. Minister for Foreign Affairs 1973; Asst. Defence Minister 1974-75, Defence Minister June-Nov. 1975; Labor Party. *Address:* 20A Gipps Street, Arncliffe, N.S.W. 2205, Australia.

MORRISON-SCOTT, Sir Terence Charles Stuart, Kt., D.S.C., D.SC.; British museum director; b. 24 Oct. 1908, Paris; s. of the late R. C. S. Morrison-Scott, D.S.O. and Douairère Jhr. R. F. H. Quarles van Ufford; m. Rita Layton 1935; ed. Eton Coll., Christ Church, Oxford, and Royal Coll. of Science; Asst. Master, Eton Coll. 1935; joined staff British Museum (Natural History) 1936; served World War II; Dir. Science Museum 1956-60, British Museum (Natural History) 1960-68; Chair. Nat. Conservation Panel 1970-, Architectural Panel 1973-; mem. Properties Cttee., Nat. Trust 1968-; mem. Standing Comm. on Museums and Galleries 1973-76; Treas. Zoological Soc. of London 1950-76; Fellow, Linnean Soc. *Publications:* Checklist of Palaearctic and Indian Mammals (with J. R. Ellerman) 1951, Southern African Mammals: A Reclassification (with J. R. Ellerman and R. W. Hayman) 1953. *Address:* Upperfold House, Fernhurst, West Sussex, GU27 3JH, England.

MORROW, Sir Ian Thomas, C.A., F.C.M.A., J.DIP., M.A., F.B.I.M.; British chartered accountant; b. 8 June 1912, Manchester; s. of Thomas George Morrow and the late Jamesina Hunter; m. 1st Elizabeth Mary Thackray 1940 (dissolved 1967), 2nd Sylvia Jane Taylor 1967; one s. two d.; ed. Dollar Acad., Scotland; Chartered Accountant 1936; Asst. Accountant Brocklehurst-Whiston Amalgamated Ltd. 1937-40; Partner, Robson, Morrow & Co. Ltd. 1942-51; Financial Dir. The Brush Electrical Eng. Co. Ltd. (now The Brush Group Ltd.) 1951-52, Deputy Man. Dir. 1952-56, Joint Man. Dir. 1956-57, Man. Dir. 1957-58; Joint Man. Dir. H. Clarkson & Co. Ltd. 1961-72; Chair. Associated Fire Alarms Ltd. 1965-70, Rowe Bros. & Co. (Holdings) Ltd. 1960-70, Crane Fruehauf Trailers Ltd. 1969-71; Chair. The Laird Group Ltd., UKO International Ltd., U.K. Optical Co. Ltd., U.K. Optical Ltd., Emerson Optical Ltd., U.K. Optical (Export) Ltd., Salvoc Ltd., Mills and Allen Group Ltd., Mills and Allen Int. Ltd. (fmrly. J. H. Vavasseur Group Ltd.), E. B. Meyer Brokers Ltd., W. M. Still & Sons Ltd., etc.; Deputy Chair. Siebe Gorman Holdings Ltd.; Dir. Hambros Ltd., Hambros Industrial Man. Ltd., U.K. Wiseman Pty. Ltd., Ian Prince Ltd., Vision Screening Ltd., James North (Africa) Ltd., James North (Japan) Ltd., Int. Harvester Co. of Great Britain Ltd., Waddington & Duval (Holdings) Ltd., Lindustries Ltd., DAF Trucks (G.B.) Ltd. 1978, Martin-Black Ltd.; mem. The Press Council; Freeman, City of London; Liveryman, Worshipful Co. of Spectaclemakers. *Leisure interests:* reading, music, golf, skiing. *Address:* 23 Chester Terrace, Regent's Park, London, NW1 4ND, England. *Telephone:* 01-486 4250.

MORS, Dr. Walter B.; Brazilian chemist; b. 23 Nov. 1920, São Paulo; s. of Oscar G. and Ingeborg Flora Mors; m. Haydée Machado 1944; two s. one d.; ed. Universidade de São Paulo; Research Chemist, Northern Agricultural Inst., Belém 1943-46; Research Chemist, Inst. of Agricultural Chem., Rio de Janeiro 1947-62; Research Chemist, Inst. of Agricultural and Food Technology, Ministry of Agric. 1963-74, Dir. 1966-73; Prof. of Phytochemistry, Natural Products Research Center, Center of Health Sciences, Fed. Univ. of Rio de Janeiro, Dir. 1978-; mem. Brazilian Acad. of Sciences, Sec.-Gen. 1965-69, 1978-79; Sec. Brazilian Chemical Soc. 1952-54. *Publications include:* Useful Plants of Brazil (with Carlos Toledo Rizzini) 1966. *Leisure interest:* botany. *Address:* Estrada de Jacarepaguá 6784, 22700 Rio de Janeiro, RJ, Brazil. *Telephone:* 342-0925.

MORSE, Sir (Christopher) Jeremy, K.C.M.G.; British banker; b. 10 Dec. 1928, London; s. of late Francis J. and Kinbarra (née Armfield-Marrow) Morse; m. Belinda M. Mills 1955; three s. one d.; ed. Winchester and New Coll., Oxford; fmrly. with Glyn, Mills & Co., Dir. 1964; Dir. Legal and Gen. Assurance Society Ltd. 1963-64, 1975-; Exec. Dir. Bank of England 1965-72; Alt. Gov. IMF 1966-72; Chair. of Deputies of "Cttee. of Twenty", IMF 1972-74; Deputy Chair, Lloyds Bank Ltd. 1975-77, Chair. 1977-; Fellow, All Souls Coll., Oxford 1953-68; Fellow, Winchester Coll. 1966-; Chair. City Arts Trust 1977-; mem. NEDC. *Address:* c/o Lloyds Bank Ltd., 71 Lombard Street, London, EC3P 3BS; 102A Drayton Gardens, London, SW10 9RJ, England (Home). *Telephone:* 01-370 2265.

MORSE, David A., LITT.B., LL.B.; American lawyer; b. 31 May 1907; ed. Rutgers Univ. and Harvard Law School; admitted to N.J. Bar (also mem. of Bar of N.Y. and D.C.) 1932; U.S. Dept of Interior, Solicitor's Staff 1933-34; Chief Counsel, Petroleum Labour Policy Bd. 1934-35; Special Asst. to U.S. Attorney-Gen. 1934-35; Regional Attorney, Nat. Labour Relations Bd. 1935-38; Partner, Law Firm of Coult, Satz, Tomlinson & Morse, Newark, N.J. 1938-47; Lecturer on Labour Relations, Labour Law and Administrative Law, various colls. and law schools 1938-47; Dir. Labour Div., Allied Mil. Govt., Sicily and Italy 1943-44; Dir. Manpower Div., U.S. Group Control Council (Germany) 1944-45; Gen. Counsel Nat. Labour Relations Bd. Washington 1945-46; Asst. Sec. of Labour 1946-47; Under-Sec. of Labour 1947-48; Acting Sec. of Labour June-Aug. 1948; fmr. U.S. Govt. mem. of the Governing Body of the ILO, and Govt. Del. to Int. Labour Confs.; Dir.-Gen. ILO 1948-70; now Partner Surrey, Karasik and Morse, New York, Washington, Paris, London and Jeddah; Chair. Advisory Panel on Planning and Policy, UN Devt. Program; Dir. Franklin D. Roosevelt Foundation, Gustav Pollak Lecturer on Research in Govt., Harvard Univ. 1955-56; mem. Bd.

of Dirs. World Rehabilitation Fund; Charter Trustee, Rutgers Univ., N.B. 1972-78; Bd. of Trustees, American Arbitration Assn.; Hon. LL.D. (Rutgers, Geneva, Strasbourg, Laval, Brandeis); numerous awards. *Address:* 30 East 62nd Street, New York, N.Y. 10021, U.S.A. *Telephone:* (212) 758-7868.

MORSE, F. Bradford, B.S., LL.B.; American politician and United Nations official; b. 7 Aug. 1921, Lowell, Mass.; s. of Frank Young and Inez Rice (née Turnbull) Morse; m. Vera Francesca Cassilly 1955 (divorced); one s. one d.; ed. Lowell Public School and Boston Univ. Service with U.S. Army 1942-46; admitted to Mass. Bar 1948; Law Clerk, Supreme Judicial Court, Mass. 1949; law practice, Lowell 1949-53; lecturer, Instructor School of Law, Boston Univ. 1949-53; City Councillor, Lowell, Mass. 1952-53; Special Counsel, U.S. Senate Cttee. on Armed Services 1953-54; Chief Asst. to Senator Leverett Saltonstall 1955-58; Deputy Admin. of Veterans Admin., Washington 1958-60; mem. U.S. House of Reps. 1960-72, mem. Foreign Affairs Cttee.; Administrator of UNDP Jan. 1976-; Under-Sec.-Gen. for Political and Gen. Assembly Affairs, UN 1972-Sec.-Gen. UN Conf. on Tech. Co-operation among Developing Countries 1978; Congressional Adviser U.S. Del. to 18 Nations' Disarmament Cttee., Geneva; U.S. Observer Council of Europe, Latin American Parl.; Chair. Mems. of Congress for Peace Through Law 1968-70; mem. American Bar Assn., Council on Foreign Relations; mem. Bd. of Trustees, Boston Univ., Bd. of Visitors, School of Foreign Service, Georgetown Univ., Bd. Dirs., Boston World Affairs Council, Pan-American Devt. Foundation, World Rehabilitation Fund. *Address:* c/o United Nations Development Programme, 1 UN Plaza, New York, N.Y. 10017, U.S.A. *Telephone:* 754-4791.

MORSE, Sir Jeremy (*see* Morse, Sir Christopher Jeremy).

MORSE, Philip McCord, B.S., M.A., PH.D.; American professor of physics; b. 6 Aug. 1903, Shreveport, La.; s. of Allen Crafts Morse and Edith McCord; m. Annabelle Hopkins 1929; one s. one d.; ed. Case Inst. of Technology, Univ. of Munich and Princeton and Cambridge Univs.; Physicist Bell Telephone Labs. 1929; Instructor Princeton Univ. 1929-30; Rockefeller Fellow 1930-31; Asst. Prof. of Physics, M.I.T. 1931-33, Assoc. Prof. 1933-36, Full Prof. 1936-69, Emeritus Prof. 1969-; Dir. U.S. Navy Operations Evaluation Group 1942-46, Brookhaven Nat. Lab. 1946-48, U.S. Dept. Defense Weapons Evaluation Group 1949-50, M.I.T. Computation Center 1955-66, M.I.T. Operations Research Center 1953-69; Editor Annals of Physics 1957-78; Exec. Sec. Int. Fed. of Operations Research Socs. 1960-63; Chair. Governing Bd., American Inst. of Physics 1975-; mem. Bd. of Dirs. Control Data Corpn. 1965-; Trustee, Rand Corpn. 1948-58, Analytical Services Corpn. 1962-73, and other orgs.; Consultant, NATO 1957-63, OECD 1962-71; Fellow, Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Physical Soc. (Pres. 1972-73, Chair. Panel on Public Affairs 1975), Acoustical Soc. of America (Pres. 1950-51), Operations Research Soc. of America (1st Pres. 1951-52); Hon. Sc.D. (Case Inst. of Tech.) 1940; U.S. Presidential Medal for Merit 1946, Silver Medal of Operations Research Soc., London 1965, Gold Medal, Acoustical Soc. of America 1973, Kimball Prize of Operations Research Soc. of America 1974. *Publications:* Quantum Mechanics (with E. U. Condon) 1929, Vibration and Sound 1936, Methods of Operations Research (with G. E. Kimball) 1950, Methods of Theoretical Physics (with H. Feshbach) 1953, Queues, Inventories and Maintenance 1958, Linear Acoustic Theory (with K. U. Ingard, in Handbuch der Physik, Vol. XI/1) 1961, Thermal Physics, 1965, Operations Research for Public Systems (Ed. with Laura W. Bacon) 1967, Theoretical Acoustics (with K. U. Ingard) 1968, Library Effectiveness 1968, In the Beginnings: A Physicist's Life (autobiography) 1977, and numerous technical articles. *Leisure interests:* hiking, mountain-climbing, photography, music. *Address:* Room 24-215, Department of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 02139; 126 Wildwood Street, Winchester, Mass. 01890, U.S.A. (Home). *Telephone:* 617-253-3602 (Office); 617-729-1440 (Home).

MORTIMER, Gerald James, C.B.E., B.SC., A.R.S.M., F.ENG., F.I.M.M.; British mining engineer and company executive; b. 2 Sept. 1918, Shepton Mallett; s. of late Rev. Fernley J. Mortimer, m. Connie Dodd 1942; two s. two d.; ed. Cateham School and Royal School of Mines, Imperial Coll., London Univ.; served with Royal Engineers 1939-46; joined Gold Fields Group 1946; various posts from trainee to Underground Man. in group's gold mines in South Africa; returned to London 1955, took part in establishing Group's operations in S.W. Africa, Australia, U.K.; Man. Gold Fields Group 1958, Exec. Dir. 1963, Deputy Chair. 1969-78, Dir. 1976-, Group Chief Exec. 1976-78; serves on various professional and commercial bodies; mem. Surrey County Council 1973-; Pres. Inst. of Mining and Metallurgy 1977-78. *Leisure interests:* County Council, party politics, school management. *Address:* Consolidated Gold Fields Ltd., 49 Moorgate, London, EC2R 6BQ; 40 Harestone Valley Road, Caterham, Surrey, CR3 6HD, England (Home). *Telephone:* 01-606 1020 (Office); 22 44853 (Home).

MORTIMER, Raymond, C.B.E.; British writer; b. 25 April 1895; ed. Malvern and Balliol Coll., Oxford; literary critic on the Sunday Times; Chevalier Légion d'honneur. *Publications:* Channel Packet 1942, Manet's Bar aux Folies-Bergères 1944, Duncan Grant 1944, Try Anything Once 1976. *Address:* 5 Canonbury Place, London, N.1, England.

MORTON, Sir Brian, Kt., F.R.I.C.S.; British chartered surveyor (retd.) and company executive; b. 24 Jan. 1912, Belfast; s. of Alfred Oscar Morton and Margaret Osborne Hennessy; m. Hilda Evelyn Elsie Hillis 1937; two s. (one deceased); ed. Campbell Coll., Belfast; Prin., Brian Morton & Co. (estate agents) 1936-64; Councillor (Ulster Unionist), Belfast Corpn. 1967-69; mem. Craigavon Devt. Comm. 1967-69; Chair. Londonderry Devt. Comm. 1969-73; Chair. Harland & Wolff Ltd. 1975-; Dir. Bank of Ireland. *Leisure interests:* golf, boating, gardening, landscape painting. *Address:* Rolly Island, Comber, Co. Down, BT23 6EL, Northern Ireland. *Telephone:* Killinchy 541472.

MORTON, Henry Vollam, F.R.S.L.; British author and journalist; Asst. Ed. Birmingham Express 1912; Sub-Ed. Daily Mail 1913-14; mem. staff Evening Standard 1919-21 and Daily Express 1921-31; special writer Daily Herald 1931-40; Kt. Commdr. Order of Phoenix (Greece), Cavaliere Ufficiale, Ordine al Merito (Italy). *Publications include:* The Heart of London 1925, In Search of England 1927, In Search of Scotland 1929, Blue Days at Sea 1932, Scotland Again 1933, In the Steps of the Master 1934, In the Steps of St. Paul 1936, Guide to London 1937, Through the Lands of the Bible 1938, Ghosts of London 1939, Middle East 1941, I Saw Two Englands 1942, Atlantic Meeting 1943, In Search of South Africa 1948, In Search of London 1951, In the Steps of Jesus 1954, A Stranger in Spain 1955, A Traveller in Rome 1957, This is Rome 1960, This is the Holy Land 1961, A Traveller in Italy 1964, The Waters of Rome 1966 (entitled The Fountains of Rome in America), A Traveller in Southern Italy 1969, H. V. Morton's England 1975, The Splendour of Scotland 1977. *Address:* Box 67, Somerset West, 7130 Cape Province, Republic of South Africa. *Telephone:* Somerset West 21203.

MORTON, Thruston Ballard, A.B.; American politician; b. 19 Aug. 1907, Louisville, Ky.; s. of David C. and Anne Morton; brother of late Rogers Morton, ed. Yale Univ.; entered Ballard and Ballard Co. 1929, Pres. 1946; fmr. Pres. of the Goodwill Industries of Kentucky, Inc.; served with U.S. Navy 1941-45; mem. of U.S. Congress (Repub.) 1946-52; managed the campaign of John Sherman Cooper 1952; Asst. Sec. of State for Congressional Relations 1953-56; U.S. Senator from Kentucky 1957-68; Chair. Republican Nat. Cttee. 1959-61; Chair. Republican Senatorial Campaign 1963; Vice-Chair. Liberty Nat. Bank & Trust Co., Louisville 1968-. *Address:* 1415 Willow Avenue, Louisville, Kentucky, U.S.A.

MORTON, William, H., B.A.(ECONS.); American banking and travel agency executive (retd.); b. 17 Sept. 1909, New Rochelle, N.Y.; m. Margaret S. Dobbin; one s. one d.; ed. Dartmouth Coll. Vice-Pres. Investment Dept., Chase Nat. Bank of N.Y. 1942-46; Founder, W. H. Morton & Co. Inc. (later changed to Equitable Securities, Morton & Co. Inc.) 1946, Chair. Equitable Securities, Morton & Co. Inc.) 1946, Chair. Equitable Securities, Morton & Co. Inc. 1968-71; Dir. American Express Co. 1965, Vice-Chair. of Bd. 1966-68, Pres. 1968-75; Pres. American Bond Club of N.Y. 1949-50; mem. Bd. of Dirs. Louisville and Nashville Railroad; mem. of Bd. American Express Securities, S.A., France, Dir. Fireman's Fund Insurance Co.; mem. Investment Bankers' Assn. (Chair. Municipal Securities Cttee. 1948-49 and fmr. Gov. and Vice-Pres.). *Address:* 35 E 76th Street, Suite 16B, New York, N.Y. 10021, U.S.A.

MORUZZI, Giuseppe, M.D.; Italian physiologist; b. 30 July 1910, Campagnola Emilia; s. of Giovanni Moruzzi and Bianca Carbonieri; m. Maria Vittoria Venturini 1941; two s.; ed. Univ. of Parma; Asst. Prof., Dept. of Physiology, Univ. of Parma 1933-36, Univ. of Bologna 1936-42; Acting Prof. of Physiology, Univ. of Siena 1942-43, Univ. of Parma 1945-47; Prof. of Physiology, Univ. of Ferrara 1947-48; Prof. of Physiology and Head of Inst. of Physiology, Univ. of Pisa 1948-; Fellow, Rockefeller Foundation, Brussels 1937-38, Cambridge Univ. 1938-39; Visiting Prof., Northwestern Univ. 1948-49; Hon. mem. American Physiological Soc., American Acad. of Arts and Sciences, American Neurological Assn., E.E.G. Soc.; Foreign mem. American Philosophical Soc., Norske Videnskaps Akademi (Oslo), Kungl. Svenska Vetenskapsakademien (Stockholm); mem. Accad. Naz. dei Lincei, Pontifical Acad.; many hon. degrees. *Publications:* L'epilessia sperimentale 1946 (French 1950), Problems in Cerebellar Physiology 1950, The Physiology and Pathology of

the Cerebellum (with R. S. Dow) 1958, Fisiologia della vita di relazione 1975, Fisiologia della vita vegetativa 1978. *Address:* Via S. Zeno 31, 56.100 Pisa, Italy. *Telephone:* 22218 (Home).

MOSBACHER, Emil, Jr.; American government official; b. 1 April 1922, Mt. Vernon, N.Y.; s. of Emil and Gertrude Mosbacher; m. Patricia Ryan 1950; three s.; ed. The Choate School and Dartmouth Coll.; Trustee, Dollar Savings Bank 1964-69; Dir. Lily Tulip Corpn. 1962-68, Nat. Life Insurance Co. 1968, Abercrombie & Fitch Co. 1968, United Merchants & Mfg. Inc. 1968; mem. Advisory Bd. First Nat. City Bank, Westchester 1968; Trustee, Lenox Hill Hosp. New York 1957, The Choate School 1962; Chief of Protocol of the U.S. 1969-72; Chair. N.Y. State Racing and Wagering Bd. 1973-; Hon. M.A. (Dartmouth), Hon. LL.D. (Long Island). *Leisure interest:* yachting (successful defense of America's Cup 1962 and 1967). *Address:* 515 Madison Avenue, New York, N.Y. 10022, U.S.A.

MOSBY, Håkon, DR.PHIL.; Norwegian professor of geophysics; b. 10 July 1903, Kristiansand; s. of Salve Mosby and Mette Catharina Nodeland; m. Alfhild Heiberg Mowinckel 1930; two d.; ed. Univ. of Oslo; Asst. to Prof. Nansen, Univ. of Oslo 1923; Amanuensis, Geofysisk Institutt, Bergen 1927; Prof. of Physical Oceanography, Bergen Museum 1947, Univ. of Bergen 1948-73; Dir. of Geophysical Inst. 1948-58, 1963-70; Dean of Faculty of Sciences, Univ. of Bergen 1954-59, Rector 1966-71; Pres. Int. Asscn. of Physical Oceanography of the Int. Union of Geodesy and Geophysics 1954-60; Chair. Norwegian Geophysical Comm. 1948-58, 1963-70, Pres. NATO subcttee. on Oceanographic Research 1960-65; mem. NATO Science Cttee. 1965-69; mem. Acad. of Sciences Oslo, Bergen, Gothenburg, Helsinki, Commdr. Order of St. Olaf 1971. *Publications:* about 60 papers in Physical Oceanography and Meteorology partly concerning polar regions. *Leisure interest:* string quartet. *Address:* c/o Geofysisk Institutt, Universitetet i Bergen, Allégaten 70, N-5014, Bergen, Norway.

MOSCA, Ugo, D. EN D.; Italian diplomatist; b. 30 April 1914, Rome; s. of Michelle Mosca and Antonietta Dusc; m. Maria Caretti 1942 (divorced 1972); two d.; ed. Univs. of Milan and Florence; entered Diplomatic Service 1939; successively Vice-Consul, Tien-Tsin, Second Sec., Bangkok; Third Sec. Belgrade 1947, Second Sec. 1949; Consul, La Plata 1950; various posts in Econ. Affairs Dept., Ministry of Foreign Affairs 1955, 1956, 1960; Minister-Counsellor, Deputy Perm. Rep. to EEC 1961; Dir.-Gen. of Finance and Econ. Affairs, Comm. of EEC May-Oct. 1967, Comm. of European Communities Oct. 1967-; mem. several econ. cttees. of Communities; Admin. European Investment Bank. *Publications:* Co-author Werner Report on European economic and monetary union; several publications on European economic and monetary problems. *Leisure interest:* sailing. *Address:* Directorate-General of Economic and Financial Affairs, Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium.

MOSER, Sir Claus Adolf, K.C.B., C.B.E., F.B.A.; British statistician; b. 24 Nov. 1922, Berlin; s. of Dr. Ernest Moser and Lotte Moser; m. Mary Oxlin 1949; one s. two d.; ed. Frensham Heights School, London School of Econs.; R.A.F. 1943-46; Asst. Lecturer in Statistics, L.S.E. 1946-49, Lecturer 1949-55, Reader in Social Statistics 1955-61, Prof. of Social Statistics 1961-70; Statistical Adviser Cttee. on Higher Educ. 1961-64; Dir. L.S.E. Higher Educ. Research Unit 1964-; Dir. Cent. Statistical Office, Head of Govt. Statistical Service 1967-78; Vice-Chair. N.M. Rothschild and Sons 1978-; Dir. The Economist 1978-, Chair. Economist Intelligence Unit 1978-; Visiting Fellow, Nuffield Coll. 1972-; Dir. Royal Opera House Covent Garden 1965-, Chair. 1974-; mem. Gov. Body, Royal Acad. of Music 1967- (Hon. Fellow 1970); mem. Council, British Acad. 1972-, Gov. Body, Royal Ballet School 1974-; Hon. Fellow, L.S.E. 1976; Hon. D.Sc. S. (Southampton) 1975, (Leeds, Surrey, City Univs.) 1977; Silver Rose Award 1975. *Publications:* Measurement of Levels of Living 1957, Survey Methods in Social Investigation 1958, Social Conditions in England and Wales (co-author) 1958, British Towns (co-author) 1961, and papers in statistical journals. *Leisure interest:* music. *Address:* 3 Regents Park Terrace, London, NW1 7EE, England (Home). *Telephone:* 01-485 1619 (Home).

MOSER, Josef; Austrian politician; b. 2 Jan. 1919, St. Lambrecht, Styria; m.; one c.; ed. secondary school, Graz; employed by Austrian Tenants' Assen. 1946-61; subsequently Man. Graz Regional Office, Workers' Pension Inst.; mem. Graz Municipal Council 1953-59; mem. Nationalrat 1959-; Minister of Bldg. and Tech. April 1970-; Socialist Party. *Address:* Federal Ministry of Building and Technology, Vienna, Austria.

MOSER, Jürgen K.; American professor of mathematics; b. 4 July 1928, Königsberg, Germany; s. of Kurt Moser; m. Gertrude Moser 1955; two d.; ed. Univ. of Göttingen; Asst. Prof. New York Univ. 1956, M.I.T. 1957-60; Prof. of Math., New York Univ. 1960, Dir. Courant Inst. of Math. Sciences 1967-70; mem. Nat. Acad. of Sciences; Sloan Fellow 1961, Guggenheim Fellow 1970-71; G. D. Birkhoff Prize; J. C. Watson Medal 1970. *Publications:* Lectures on Celestial Mechanics (with C. L. Siegel) 1971, Stable and Random Motions in Dynamical Systems 1973. *Address:* Courant Institute of Mathematical Sciences, New York University, 251 Mercer Street, New York, N.Y. 10012, U.S.A. *Telephone:* 212-460-7442.

MOSER, Stephen B.; American business executive; b. 2 Nov. 1908, Seattle, Wash.; m. Ruth Moser; three d.; ed. Seattle Public Schools, Univ. of Washington; U.S. Navy 1941-45; with Lewis-Bean Co. 1928-41; Sec.-Treas., Dir. Cascade Lumber Co. 1946-52, Vice-Pres., Treas., Dir. 1953-59; Dir. Boise Cascade Corpn. 1958-, Vice-Pres. 1959-67, Exec. Vice-Pres. 1967-72, Vice-Chair. June-Oct. 1972, Chair. of Bd. Oct. 1972-; Pres. Nat. Forest Products Assen. 1972-73, Chair. 1973-74; Chair. Econ. Council Forest Products Industry; Dir. American Plywood Assen. *Leisure interests:* golf, hunting. *Address:* Boise Cascade Corpn., P.O. Box 51, Yakima, Wash. 98907 (Office); 5910 Scenic Drive, Yakima, Wash. 98902, U.S.A. (Home). *Telephone:* (509) GL3-3131 (Office); (509) 966-1827 (Home).

MOSES, Sir Charles Joseph Alfred, Kt., C.B.E.; Australian broadcasting official; b. 21 Jan. 1900, Little Hulton, Lancs., England; s. of Joseph and Lily (Henderson) Moses; m. Kathleen O'Sullivan 1922; one s. one d.; ed. Oswestry Grammar School, and Royal Mil. Coll., Sandhurst; Lieut. in 2nd Border Regt. (British Regular Army) 1918-22; fruit-grower, Bendigo, Australia 1923-24; motor salesman and sales man. 1924-30; announcer, Nat. Broadcasting Service 1930-32; N.S.W. Sporting and Talks Editor, Australian Broadcasting Comm. 1933-34; Fed. Talks Controller, A.B.C. 1935; Gen. Man. A.B.C. 1935-65; Sec.-Gen. Asian Broadcasting Union 1965-77, Hon. Councillor 1977-; joined A.I.F. 1940; rose to rank of Lieut.-Col. 1942; served in Malaya 1941-42, New Guinea 1942-43; mentioned in despatches Sept. 1943; Dir. Australian Elizabethan Theatre Trust; Vice-Pres. Royal Agricultural Soc.; Pres. Austrian-Australian Cultural Soc.; Trustee, Int. Broadcast Inst. (London); Councillor, Asian Mass Communications and Information Centre (Singapore); mem. Council Royal Inst. for Deaf/Blind Children, Australian-American Assen., Int. Advisory Cttee. of Prix Jeunesse Foundation (Munich); Hon. Dir. Postgraduate Medical Foundation; Commdr., Order of Merit (Austria). *Leisure interests:* walking, tree-felling, music. *Address:* c/o Asian Broadcasting Union, 203 Castlereagh Street, Sydney, N.S.W., Australia. *Telephone:* 617406 (Office); 324224 (Home).

MOSES, David Gnanapragasam, PH.D.; Indian philosopher; b. 22 Jan. 1902; ed. Madras Christian Coll., Madras Univ., Union Theological Seminary, Columbia Univ.; Phil. Lecturer Noble Coll., Madras Univ. 1924-26; Prof. Hislop Coll., Nagpur 1926-40, Principal 1940-61, Dean, Faculty of Arts 1958-61; Vice-Pres., Int. Missionary Council 1947-61; Pres. Nat. Christian Council of India 1959-63; mem. Presidium, World Council of Churches 1961-69. *Publications:* Religious Truth and the Relation Between Religions. *Address:* Hislop College, Nagpur, India.

MOSES, Robert, PH.D.; American public official; b. 18 Dec. 1888, New Haven, Conn.; s. of Emanuel and Bella Moses; m. 1st Mary Louise Sims 1915, two d.; m. 2nd Mary A. Grady 1966; ed. Yale, Oxford and Columbia Univs.; Municipal Investigator, New York 1913; Chief of Staff, N.Y. State Reconstruction Comm. 1919-21; Sec. N.Y. State Assen. 1921-26; Pres. L.I. State Park Comm. and Chair. State Council of Parks 1924-63; Sec. of State, New York 1927-28; Chair. Jones Beach State Parkway Authority and Bethpage Park Authority 1933-63; Repub. Cand. for Gov. of New York 1934; New York Park Commr. to consolidate City Park and Parkway system 1934-60; sole mem. Henry Hudson Parkway Authority and Marine Parkway Authority 1934-38, absorbed by New York City Parkway Authority 1938; mem. Triborough Bridge Authority 1934, Chair. 1936; mem. New York City Planning Comm. 1942-60; Chief Exec. Officer, New York City Tunnel Authority 1945-46; Chair. Consolidated Triborough Bridge and New York City Tunnel Authority 1946-68; New York City Construction Co-ordinator 1946-60; Chair. Mayor's Slum Clearance Cttee. 1948-60; Chair. Power Authority, State of N.Y. 1954-63; Co-ordinator of Arterial Projects, New York City 1960-66; Pres. New York World's Fair 1964-1965 Corpn. 1960-67; Dir. Lincoln Center for Performing Arts 1960-69, Dir. Emer. 1969-; mem. Nat. Cttee. for Immigration Reform 1965; mem. New York City Transportation Council 1966-67; Lifetime mem. of New York Bldg. Congress 1966; Consultant to Chair. of Metropolitan Transportation Authority 1968-; Special Adviser to Gov. on Housing 1974-75; mem. Temporary New York State Comm. to commemorate 200th Anniversary of American Revolution and 200th Anniversary of Creation of State of New York 1974-; Consultant and official on numerous urban reconstruction schemes,

including the reconstruction of post-war Germany 1947 and an arterial system for Caracas, Venezuela 1948; Trustee, Hofstra Coll. 1944-69; mem. Bd. of Trustees, Hall of Science, New York 1964-67, Trustee, Miner Inst., Chazy, N.Y. 1971-; mem. Fordham Univ. Council 1967-; Benjamin Franklin Fellow, R.S.A. 1968; numerous awards, lectureships and hon. degrees. *Publications:* La Guardia, A Salute and a Memoir 1957, A Tribute to Governor Smith 1962, Public Works: A Dangerous Trade 1970, and numerous articles in newspapers and magazines. *Leisure interests:* fishing, swimming, writing. *Address:* Randall's Island, New York, N.Y. 10035 (Office); One Gracie Terrace, New York, N.Y. 10028, and Gilgo Beach, Long Island, N.Y. 11702, U.S.A. (Homes).

MOSEVICS, Mark; Israeli industrialist; b. 22 Aug. 1920; m. Blanka Griffin; one s.; ed. Dulwich Coll., London, Jesus Coll., Cambridge, England, Hebrew Univ., Jerusalem; Chair. Bd. of Dirs., Israel Export Inst. 1966-68; Chair. Bd. of Dirs., Israel Industrial Bank 1968-72, mem. Bd. of Dirs. 1972-; Chair. Bd. of Dirs., Elite Chocolate and Sweets Mfg. Co. Ltd., Co-ordinating Bureau of Econ. Orgs. 1968-; Pres. Mfrs. Assn. of Israel 1969-75; mem. Bd. of Dirs., Israel Corpn. Ltd. 1970-; Chair. Bd., First Int. Bank of Israel 1973; mem. Presidium, Prime Minister's 3rd Econ. Conf.; Hon. Pres. A'KIM (Appeal for Retarded Children) 1972-. *Address:* Elite Chocolate and Sweets Manufacturing Co. Ltd., P.O. Box 19, Tel-Aviv (Office); 7 Wisotsky Street, Tel-Aviv, Israel.

MOSHOESHOE II, King, (Constantine Bereng Seeiso); King of Lesotho (Basutoland); b. 2 May 1938; s. of Seeiso Griffith, late Paramount Chief of Basutoland and 'Ma-Bereng; m. Princess Tabitha 'Masentle, d. of Chief Lerotholi Mojela, 1962; ed. Roma Coll., Lesotho, Ampleforth Coll. and Corpus Christi Coll., Oxford; Paramount Chief of Basutoland 1960; King (since restoration of Lesotho's independence) 1966-; children: Prince Letsie David, Principal Chief-designate of Matsieng and heir apparent to the throne, b. 17 July 1963; Prince Seeiso Simeone, b. 16 April 1966; Princess Constance Christina Sebueng, b. 24 Dec. 1969; exiled from Lesotho April-Dec. 1970; Chancellor, Nat. Univ. of Lesotho (fmrly. Univ. of Botswana, Lesotho and Swaziland) 1971. *Address:* Royal Palace, Maseru, Lesotho.

MOSKALENKO, Marshal Kiril Semyonovich; Soviet army officer; b. 11 May 1902, Grishino, Donetsk District, Ukraine; ed. Dzerzhinski Artillery Academy; joined Soviet Army 1920; Commdr. Rifle Corps, Voronezh Front 1943; Commdr. 38th Army Group Kursk-Orel, commanded Dnieper battle 1943-44; captured Vinnitsa and Zhmerinka 1944; served Carpathia and Czechoslovakia 1944-45; Commdr. Moscow Mil. District Anti-Aircraft Defence 1945-53; Mil. Commdr., Moscow Mil. Region 1953-60; Deputy Minister of Defence and C.-in-C. of Rocket Forces 1960-62; Chief Insp., Ministry of Defence, Deputy Minister of Defence 1962-: mem. Central Cttee. of CPSU 1956-; Deputy to U.S.S.R. Supreme Soviet 1946-; Hero of Soviet Union, Hero of Czechoslovakia, Orders of Lenin (six times), Gold Star Medal (Czechoslovakia, twice), October Revolution, Red Banner (five times), Suvorov (twice), Kutuzov (twice), Sword of Honour with Gold Coat-of-Arms, and other awards. *Publication:* At the South-Western Direction 1972, 1973. *Address:* Ministry of Defence, Naberezhnaya M. Thoreza 34, Moscow, U.S.S.R.

MOSLER, Hermann, LL.D.; German international lawyer; b. 26 Dec. 1912, Hennef; s. of Karl and Marga Mosler (née Loenartz); m. Anne Pipberger; five c.; ed. Bonn Univ.; Asst., later Research Fellow, Kaiser Wilhelm Inst. for Foreign Public Law and Public Int. Law 1937; Barrister-at-Law, Bonn 1946; Private Dozent in Public Int. Law, Constitutional Law and Admin. Law, Univ. of Bonn 1946; Ordinary Prof. of Public Law, Univ. of Frankfurt 1949; Visiting Prof. of Int. Law, Georgetown Univ. 1950; Head of Legal Dept., Fed. Ministry of Foreign Affairs 1951-53: Ordinary Prof. Univ. of Heidelberg 1954; Dir. Max-Planck Inst. for Foreign Public Law and Public Int. Law, Heidelberg 1954; mem. Perm. Court of Arbitration 1954-; Judge of European Court of Human Rights 1959-; Lectures, Hague Acad. of Int. Law 1957, 1974; *ad hoc* Judge, Int. Court of Justice 1968-69, Judge 1976-; mem. Heidelberg Acad. of Sciences 1975, Curatorium, Hague Acad. of Int. Law 1976, Institut de Droit International 1977; Corresp. mem. Austrian Acad. of Sciences 1972; Dr. Iur. h.c. (Brussels) 1969. *Publications:* In International Law, Comparative Public Law. *Address:* 6900 Heidelberg, Berliner-Strasse 48, Federal Republic of Germany; Peace Palace, The Hague, The Netherlands. *Telephone:* 06221-42133.

MOSLEY, Sir Oswald Ernald, Bt.; British politician; b. 16 Nov. 1896; s. of Sir Oswald Mosley, 5th Bt., and Maude Heathcote; m. 1st Lady Cynthia Curzon, d. of Marquis Curzon of Kedleston, 1920 (died 1933), two s. one d.; m. 2nd Hon. Diana Mitford, d. of Lord Redesdale 1936, two s.; ed. Winchester and Sandhurst; Officer 16th Lancers, attached Royal Flying Corps. 1914-18; Conservative M.P. for Harrow 1918-22; Independent M.P. 1922-24; joined Labour Party 1924; Labour M.P. for Smethwick 1926-31; Chancellor of Duchy of Lancaster in Second Labour Govt. 1929-30, when he resigned on question of unemployment policy; formed New Party 1931; New Party Candidate for Stoke at Gen. Election and was defeated; leader of British Fascist movement 1932-40, when it was dissolved; detained under Defence Regulations 1940, released 1943; entered publishing business 1946; founded Union Movement to promote union of Europe 1948-. *Publications:* The Greater Britain 1932, My Answer 1946, The Alternative 1947, Europe: Faith and Plan 1958, Right or Wrong 1961, My Life 1968. *Leisure interests:* reading, walking, swimming, fencing, listening to music. *Address:* 1 rue des Lacs, Orsay 91400, Essonne, France; White's Club, St. James's, London, S.W.1, England. *Telephone:* 010 4211 (Orsay).

MOSS, Frank Edward, A.B., D.IUR.; American lawyer and politician; b. 23 Sept 1911; ed. Utah and George Washington Univs.; mem. legal staff, Securities and Exchange Comm., Washington 1937-39; Law Clerk to Justice James H. Wolfe of Utah State Supreme Court 1939; Judge, Salt Lake City Court 1940-50; attached to U.S. Army Air Force Judge Advocate's Dept. during Second World War; Salt Lake County Attorney 1950-58; Senator from Utah 1958-77; Chair. Senate Cttee. on Aeronautical and Space Sciences; mem. Policy Cttee., Steering Cttee., Senate Cttees. on Commerce, Post Office and Civil Service, and Special Cttee. on Ageing; fmr. Pres. Utah State Assn. of County Officials, Nat. Assn. of County and Prosecuting Attorneys; fmr. Dir. Utah UN Assn.; Democrat. *Address:* c/o Senate Office Building, Washington, D.C. 20510, U.S.A.

MOSS, Stirling, O.B.E.; British fmr. racing driver; b. 17 Sept. 1929, London; s. of Nora Aileen and Alfred Moss; m. 1st Katherine Molson 1957 (dissolved 1963); m. 2nd Elaine Barbarino 1964 (dissolved 1968), one d.; ed. Haileybury and Imperial Service Coll.; bought his first racing car, a Cooper 500, with prize money from show-jumping 1947; British Champion 1951; built his own car, the Cooper-Alta 1953; drove in H.W.M. Formula II Grand Prix team 1950, 1951, Jaguar team 1950, 1951; leader of Maserati Grand Prix team 1954; mem. Mercedes team 1955; leader of Maserati Sports and Grand Prix teams 1956, Aston Martin team 1956; mem. Vanwall, Aston Martin, Maserati teams 1958; winner of Tourist Trophy (TT) race, U.K. 1950, 1951, 1955, 1958, Gold Coupe des Alpes (3 rallies without loss of marks) 1954, Italian Mille Miglia 1955, Sicilian Targa Florio 1955, 8 int. events including New Zealand, Monaco Grand Prix, Nurburgring 1,000 km. (Fed. Repub. of Germany) 1956, Argentine 1,000 km. U.K., Pescara (Italy), Moroccan Grand Prix 1957, 11 events incl. Argentine Netherlands, Italian Grand Prix and Nurburgring 1,000 km. 1958, 19 events including New Zealand, Portuguese, U.S. Grand Prix 1959, 19 events including Cuban, Monaco, Austrian, S. African Grand Prix 1960, 27 events including Monaco, German, Pacific Grand Prix, Nassau Tourist Trophy 1961; competed in 492 events, finishing in 366, winning 222, during motor racing career 1947-62; retd. from racing after accident at Goodwood, U.K. April 1962; subsequently took part in many business ventures, incl. public relations, consultancy work on vehicle evaluation, property conversion, design; also journalism and lecturing; Pres. or Patron of 28 car clubs; dir. of 28 cos.; Hon. F.I.E. 1959; Gold Star, British Racing Drivers' Club 10 times 1950-61, Driver of the Year (Guild of Motoring Writers) 1954; Sir Malcolm Campbell Memorial Award 1957. *Publications include:* Stirling Moss 1953, In the Track of Speed 1957, Le Mans '59 1959, Design and Behaviour of the Racing Car 1963, All But My Life 1963, How to Watch Motor Racing 1975. *Leisure interests:* water and snow skiing, theatre and cinema, designing, model making, motor trials, swimming, interior decorating, woodwork, horse jumping and riding. *Address:* c/o Stirling Moss Ltd., 46 Shepherd Street, Mayfair, London, W1Y 8JN, England. *Telephone:* 01-499 3272/7967.

MÖSSBAUER, Rudolf, PH.D.; German physicist; b. 31 Jan. 1929, Munich; s. of Ludwig and Erna Mössbauer; m. Elisabeth Pritz 1957; one s. two d.; ed. Technische Hochschule, Munich; Research Asst. Max-Planck Inst., Heidelberg 1955-57; Research Fellow, Technische Hochschule, Munich 1958-60; Research Fellow, Calif. Inst. of Tech. 1960, Sr. Research Fellow 1961, Prof. of Physics Dec. 1961; Prof. of Experimental Physics, Tech. Univ. of Munich 1964-72; Div. Inst. Max von Laue, Grenoble 1972-; Dir. German-French-British High Flux Reactor 1972-; Foreign mem. American Acad. of Arts and Sciences; mem. Deutsche Physische Gesellschaft, Deutsche Gesellschaft der Naturforscher, Leopoldina, American Physical Soc., European Physical Soc., Indian Acad. of Sciences; Hon. D.Sc. (Oxford) 1973, (Leicester) 1975, Dr. h.c. (Grenoble) 1974; Grosses Bundesverdienstkreuz, Research Corpn. Award 1960, Röntgen Prize, Univ. of Giessen 1961, Elliot Cresson Medal of

Franklin Inst., Phila. 1961, Nobel Prize for Physics 1961. *Publications:* Papers on Recoilless Nuclear Resonance Absorption. *Leisure interests:* piano, hiking, photography, languages. *Address:* Institut Max von Laue, 38042 Grenoble-Cedex, P.O.B. 156, France.

MOTA PINTO, Carlos; Portuguese politician and academic; Prof. of Law; Vice-Rector Univ. of Coimbra 1974-75; Deputy to Ass. 1975-; founder mem. Partido Social Democrático, left PSD Dec. 1975; Minister of Commerce and Tourism in first Soares Govt. 1976-77; Prime Minister of Portugal 1978-79. *Address:* c/o Oficina del Primer Ministro, Lisbon, Portugal.

MOTHERWELL, Robert, A.B.; American painter; b. 24 Jan. 1915, Aberdeen, Wash.; s. of Robert Burns Motherwell, and Margaret Hogan; m. Renate Ponsold 1972; two d. by previous marriage; ed. Stanford, Harvard, Grenoble and Columbia Univs.; a founder in New York of Abstract Expressionism (Tachisme); One-Man Shows Guggenheim Gallery 1944, Kootz Gallery 1946, 1948, 1949, 1952, Janis Gallery 1957, 1959, 1961, 1962, Museum of Modern Art 1965 (all New York), San Francisco Museum 1946, 1967, Chicago Arts Club 1946, Oberlin Coll. 1953, Bennington Coll. 1959, Berggruen Gallery, Paris 1961, Odyssia Gallery, Rome 1962, Der Spiegel Gallery, Cologne 1962, The Phillips Collection, Washington 1965; Minnesota Museum 1965, Witte Memorial Museum, Tex. 1966, Utah Museum 1966, Southern Florida Museum 1966, Contemporary Arts Museum, Houston 1966, Baltimore Museum 1966, Indiana Museum 1966, Virginia Museum of Art, Richmond 1969, Toledo Museum 1969, Museum of Fine Arts, Houston 1972, Boston Museum of Fine Arts 1973; Retrospective Exhbn., Städtische Kunsthalle, Dusseldorf, Kulturhuset, Stockholm, Museum des 20 Jarhunderts, Vienna, Musée d'Art Moderne de la Ville de Paris, Royal Scottish Acad., Edinburgh, Royal Acad. of Arts, London 1976-77; work has been exhibited at Tate Gallery (London), New York, Paris, and Madrid Museums of Modern Art and at Brussels, Moscow, Venice, São Paulo, Amsterdam, West Berlin, Kassel, Rome and elsewhere; works in U.S. Pavilion, Venice 1950, São Paulo 1953, Brussels 1958, Moscow 1959, São Paulo 1961; Gen. Editor Documents of Modern Art 1944-52; Assoc. Prof. Hunter Coll. 1951-58, Distinguished Prof. 1972-73; Dir. Coll. Art Assn. 1965-68; Art Adviser Partisan Review 1963-65; Educ. Adviser Guggenheim Foundation 1965-77; Counsellor Smithsonian Inst. 1966-68; Adviser Washington Univ. 1968-70, Tufts Univ. 1976-; Gen. Editor Documents of XX Century Art 1968-; Advisory Editor The American Scholar 1969-73; mem. American Acad. Art and Letters. *Address:* 909 North Street, Greenwich, Conn. 06830, U.S.A.

MOTHES, Kurt, D.PHIL.; German plant biochemist; b. 3 Nov. 1900, Plauen; s. of Albin Hermann and Anna (Gemeinhardt) Mothes; m. Dr. Hilda Eilts 1929; three s. one d.; ed. Univ. of Leipzig and Martin-Luther-Universität, Halle-Wittenberg; Dozent in Botany and Pharmacognosy, Univ. of Halle 1925-35; Prof. of Botany and Pharmacognosy, and Dir. of Botanical Inst., Univ. of Königsberg 1935-45; Head, Dept. of Chemical Physiology, Inst. für Kulturpflanzenforschung, Gatersleben 1949-57; Dir. Botanical Inst., Univ. of Halle 1958-; Dir. of Botanical Studies, Univ. of Halle; Dir. of Plant Biochem. Inst. of Acad. of Sciences, Berlin, at Halle 1958-67; Prof. of Plant Biochem., Hon. senator Univ. of Halle; Pres. Emer. Deutsche Akademie der Naturforscher Leopoldina; Foreign mem. Royal Soc. (U.K.) 1971, Akad. Nauk (Moscow); Hon. mem. Acads. of Science, Vienna, Tokyo, Budapest and numerous other acads.; Nat. Prize 1953; Honoured People's Scientist; Dr. med. h.c. (Halle), Dr.agr. h.c. (Kiel), Dr.phil. h.c. (Vienna), Dr.rer.nat. h.c. (Halle), Dr. pharm. h.c. (Szeded), Dr.rer.nat. h.c. (Greifswald); Cothenius Medal (Leopoldina Acad.), Pazmany Medal (Univ. of Budapest), Humboldt Medal (D.A.W., Berlin), Gregor-Mendel Medal (Czech Acad. of Sciences), Otto Warburg Medal (Soc. for Physiological Chemistry), Carl-Mannich Medal (German Pharmaceutical Soc.), Hoest-Madsen Medal (Fed. Int. Pharm.), Paul Karrer Medal (Zürich), Kekule Medal, Döbereiner Medal (G.D.R.), Österreichisches Ehrenzeichen für Wissenschaft und Kunst 1975, Pour le Mérite (Fed. Repub. of Germany). *Publications:* Stickstoff-Stoffwechsel, Physiologie und Biochemie der Alkaloide, Stoffwechselregulation (Kinin). *Address:* 402 Halle/Saale, Hoher Weg 23, German Democratic Republic. *Telephone:* 21717.

MOTT, Sir Nevill Francis, Kt., M.A., D.SC., F.R.S.; British physicist; b. 30 Sept. 1905, Leeds; s. of C. F. Mott and Lilian Reynolds; m. Ruth Horder 1930; two d.; ed. Clifton Coll. and St. John's Coll., Cambridge; Lecturer, Manchester Univ. 1929-30; Fellow and Lecturer, Gonville and Caius Coll., Cambridge 1930-33; Melville Wills Prof. of Theoretical Physics, Bristol Univ. 1933-48; Dir. H. H. Wills Physics Lab. and H. O. Wills Prof. of Physics, Bristol Univ. 1948-54; Cavendish Prof. of Experimental Physics, Univ. of Cambridge 1954-71; Chair. Bd. of Dirs., Taylor and Francis Ltd. 1969-77; Chair. and Trustee Nat. Extension Coll. 1971-76; Pres. Int. Union of Physics 1951-57; mem. Inst. of Strategic Studies; Master, Gonville and Caius Coll., Cambridge 1959-66; Chevalier, Ordre Nat. du Mérite 1977; Hon. D.Sc. (London, Paris, Oxford and others); shared Nobel Prize for Physics 1977. *Publications:* An Outline of Wave Mechanics 1930, The Theory of Atomic Collisions (with H. S. W. Massey) 1933, The Theory of the Properties of Metals and Alloys (with H. Jones) 1936, Electronic Processes in Ionic Crystals (with R. W. Gurney) 1940, Wave Mechanics and its Applications (with I. N. Sneddon) 1948, Elements of Wave Mechanics 1952, Atomic Structure and the Strength of Metals 1956, Electronic Processes in Non-Crystalline Materials (with E. A. Davis) 1971, Elementary Quantum Mechanics 1972, Metal-Insulator Transitions 1974. *Leisure interests:* photography, numismatics. *Address:* 31 Sedley Taylor Road, Cambridge, England. *Telephone:* Cambridge 45380.

MOUKAMBI, Paul; Gabonese politician; b. 20 March 1938, Moupoupa; ed. Coll. de Mitzic, Lycée Savorgnan de Brazza, Lycée de Libreville, Univs. of Poitiers and Paris, France; Sec., then Principal Sec. of Admin., Ministry of the Civil Service 1961-62; studies in France 1962-66; Drafter of Deeds, Legal Dept., Caisse Primaire Centrale d'Assurance Maladie de la Région Parisienne, Paris 1966-68; Trainee, Director de la Prévision, Ministry of Econ. and Finance, France 1968; Sec.-Gen., Ministry of Nat. Econ., Gabon, subsequently Deputy Sec.-Gen. at the Presidency 1968-69; Personal Adviser to the Pres., in charge of Co-ordination, Planning, Devt. and Statistics 1969-72; Minister of Finance and the Budget Feb.-Sept. 1972, of Econ. and Finance 1972-75; Presidential Adviser for Econ. and Fiscal Affairs 1975-76; Commdr. Ordre Nat. de l'Etoile Equatoriale. *Address:* c/o Ministère de l'Economie et des Finances, Libreville, Gabon.

MOUKNASS, Hamdi Ould; Mauritanian lawyer and diplomatist; b. 1935, Port-Etienne; mem., political office of Parti du peuple mauritanien (PPM) June 1966-; Govt. Commr. Court of State Security 1966-; High Commr. for Youth and Sport 1966-68; social Chargé d'Affaires 1966-68; Minister for Youth, Cultural Affairs and Information Jan.-July 1968; Minister for Foreign Affairs 1968-70, 1971-78; Minister of Nat. Defence April 1970-Aug. 1971. *Address:* c/o Ministry of Foreign Affairs, Nouakchott, Mauritania.

MOULAY HASSAN BEN EL MEHDI, H.R.H. Prince (cousin of King Hassan II); Moroccan diplomatist; b. 14 Aug. 1912, Fez; s. of Moulay El Mehdi Alaoui and Khnata Bent Mohamed Soussi; Caliph Northern Zone of Morocco 1925; Amb. to U.K. 1957-64, to Italy 1964-67; now Gov. Banque du Maroc; decorations include Ouissam Alaoui, Charles I Medal, Great Mil. Ouissam, Great Medal of Portugal, Great Dominican Medal, Great Naval Medal, Great Mahdaoui Medal, Great Houssni Medal. *Address:* Banque du Maroc, 277 avenue Mohammed V, Rabat, Morocco.

MOULINS, Max; French government official; b. 2 Jan. 1914, Saint-Brieuc; s. of Georges and Marguerite (Roques) Moulins; m. Lucie Coute 1937; two s. two d.; ed. Lycée de Lyon, Faculty of Arts, Lyon, Faculty of Law, Paris; Successively Sec.-Gen. of Hérault, Deputy Prefect of Aix-en-Provence, later of Cherbourg, Prefect of Rennes, Albi and Niort; Dir. of La Sûreté Nationale; Prefect of Haut-Rhin 1955-58; Prefect, Regional Insp.-Gen. Algeria 1959-60, Sec.-Gen. Overseas Dept. 1961-; Prefect Rhône-Alpes Region 1966-72, Prefect 1972-; Pres. Cie. Nat. du Rhône; Commdr., Légion d'honneur, Grand Officier, Ordre Nat. du Mérite, Croix de guerre. *Address:* 2 rue André Bonin, 69004 Lyon; and 28 rue Jacob, 75006 Paris, France. *Telephone:* 633-46-65.

MOULTON, Alexander Eric, C.B.E., R.D.I., M.A., C.ENG., F.I.MECH.E., F.P.R.I.; British engineer; b. 9 April 1920, Stratford-on-Avon, Warwicks.; s. of John Coney and Beryl Latimer Moulton; ed. Marlborough Coll., King's Coll., Cambridge; worked in Engine Research Dept., Bristol Aeroplane Co. 1939-44, Personal Asst. to Sir Roy Fedden 1940-42; established Research Dept. of George Spencer, Moulton & Co. Ltd., originating work on rubber suspensions for vehicles and designing Flexitor, Works Man. then Tech. Dir. 1945-56; formed Moulton Devts. Ltd., devt. work on own designs of rubber suspensions including Hydrolastic and Hydragas 1956, Chair. and Man. Dir. 1956-67, Man. Dir. 1967-; designed Moulton Coach; formed Moulton Bicycles Ltd. to produce own design Moulton Bicycle 1962, Chair. and Man. Dir. 1962-67, Dir. 1967-; Dir. Alex Moulton Ltd., Bicycle Consultants Ltd.; Fellow, Royal Soc. of Arts; Hon. Dr. Royal Coll. of Art; Hon. D.Sc. (Bath); Design Centre Award 1964, Amb. Award 1964, Bidlake Memorial Plaque 1964, Gold Medal Milan Triennale 1964, Queens Award to Industry for Tech. Innovation (Moulton Devts. Ltd)., Soc. of Industrial Artists and Designers (S.I.A.D.) Design Medal 1976. *Publications:* Various papers on vehicle suspension. *Leisure interests:* steamboating, canoeing, cycling, shooting. *Address:* The Hall, Bradford on Avon, Wiltshire, England. *Telephone:* Bradford on Avon 2991.

MOUNTBATTEN OF BURMA, 1st Earl, cr. 1947; **Admiral of the Fleet Louis (Francis Albert Victor Nicholas) Mountbatten,** K.G., P.C., O.M., G.C.B., G.C.S.I., G.C.I.E., G.C.V.O., D.S.O., F.R.S.; b. 25 June 1900; British naval officer and public servant; ed. Locker's Park, Osborne, Dartmouth, Christ's Coll., Cambridge; Naval Cadet 1913, Midshipman 1916, Sub-Lieut. 1918, Lieut. 1920, Lieut.-Commdr. 1928, Commdr. 1932, Capt. 1937, Cdre. 1941, Acting Vice-Adm. 1941, Acting Adm. 1943, substantive Rear-Adm. 1946, Vice-Adm. 1949, Adm. 1953, Adm. of the Fleet 1956; Col. of the Life Guards 1965, Col.-Commdt. Royal Marines 1965; served H.M.S. Lion 1916, Queen Elizabeth 1917, H.M. Submarine K6 1918, H.M.S. P31 1918, Renown 1920, 1921 (Prince of Wales tour to Australia and New Zealand 1920, and India, Japan and the Far East 1921), Repulse 1921, Revenge 1923; Signal School, Portsmouth 1924, R.N. Coll. Greenwich 1925; Asst. Fleet Wireless Signal Officer, Mediterranean Fleet 1927-28, Sr. Wireless Instr. 1929-31; Fleet Wireless Officer 1931-33; 2nd Destroyer Flotilla Signal and Wireless Officer 1928-29; commanded H.M.S. Daring 1934, Wishart 1935; Personal Naval A.D.C. to King Edward VIII 1936, to King George VI 1937-52; Capt. of Kelly and 5th Destroyer Flotilla 1939-41; in command aircraft carrier Illustrious to Oct. 1941; Adviser on Combined Operations 1941-42, Chief of Combined Operations and mem. of Chiefs of Staff Cttee. 1942-43; Supreme Allied Commdr. S.E. Asia 1943-46; Viceroy of India March-Aug. 1947; Gov.-Gen. of Dominion of India Aug. 1947-June 1948; Flag Officer Commanding First Cruiser Squadron, Mediterranean Fleet Oct. 1948-50; 4th Sea Lord, and Chief of Supplies and Transport June 1950-52; C.-in-C. Mediterranean 1952-54; C.-in-C. Allied Forces, Mediterranean 1953-54; First Sea Lord and Chief of Naval Staff 1955-59; Chief of Defence Staff and Chair. Chiefs of Staff Cttee. 1959-65; Gov. of Isle of Wight 1965, Lord Lieut. 1974-; Chair. of Nat. Electronics Council; Personal A.D.C. to H.M. the Queen 1953-; Legion of Merit and D.S.M. (U.S.A.); Grand Croix, Légion d'honneur and Croix de guerre; Grand Cross of the Lion (Netherlands), Grand Cross of Order of George I (Greece), Special Grand Cordon of the Cloud and Banner (China), Agga Maha Thiri Thudhamma (Burma), etc.; Hon. LL.D. (Cambridge, Leeds, Edinburgh, Southampton, London, Sussex), Hon. D.C.L. (Oxford), Hon. D.Sc. (Delhi and Patna); Hon. Lieut.-Gen., Hon. Air Marshal.
(Died 27 August 1979).

MOUNTCASTLE, Vernon Benjamin, Jr.; American neurophysiologist and educator; b. 15 July 1918, Shelbyville, Ky.; s. of Vernon B. Mountcastle and Anna-Francis Marguerite Waugh; m. Nancy Clayton Pierpont 1945; two s. one d.; ed. Roanoke Coll., Salem, Va., and Johns Hopkins Univ. School of Medicine; House Officer, Surgery, The Johns Hopkins Hosp. Baltimore, Md. 1943; with U.S. Navy Amphibious Forces 1943-46; through junior ranks, The Johns Hopkins Univ. School of Medicine 1948-59, Prof. of Physiology 1959-, Dir. of Dept. of Physiology 1964-; Visiting Lecturer University Coll., London, and Collège de France, Paris 1959; Penfield Lecturer, American Univ., Beirut 1971; Sherrington Lecturer, Liverpool Univ. 1974; Sherrington Lecturer, Royal Soc. of Medicine, London, Mellon Lecturer, Univ. of Pittsburgh 1976, and numerous other hon. lectureships; Nat. Pres. Soc. for Neuroscience 1971-72; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Hon. Dr.Sc. (Pennsylvania) 1976, (Roanoke) 1968; Lashley Prize, American Phil. Soc. 1974, F. O. Schmitt Prize and Medal, M.I.T. 1975, Gold Medal, Royal Soc. of Medicine 1976, Horwitz Prize, Columbia 1978. *Publications:* Medical Physiology (two vols.) (Editor and major contrib.) 3rd edn. 1979; and more than 50 articles in scientific journals on the physiology of the central nervous system especially on the neuronal mechanisms in sensation and perception. *Leisure interests:* sailing, horsemanship. *Address:* Department of Physiology, The Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, Md. 21205, U.S.A. *Telephone:* 703-955 3635.

MOUNTFORD, Sir James Frederick, Kt., D.LITT., D.C.L., LL.D.; British Latinist and educationalist; b. 15 Sept. 1897, West Bromwich, Staffs.; s. of Alfred Mountford; m. Doris May Edwards 1922; three d.; ed. West Bromwich Grammar School, Birmingham Univ., and Oriel Coll., Oxford; Lecturer in Classics, King's Coll., Newcastle 1918-19; Latin Lecturer, Edinburgh Univ. 1919-24; Prof. of Classics, Cornell Univ. 1924-27; Fereday Fellow, St. John's Coll., Oxford 1924-27; Latin Prof. Univ. of Wales 1928-32; Latin Prof. Liverpool Univ. 1932-45; Vice-Chancellor Liverpool Univ. 1945-63; Chair. Jt. Matriculation Bd. 1947-49; Chair. of Cttee. of Vice-Chancellors 1948; Pres. Classical Assn. 1963; Pres. Virgil Soc. 1966-69. *Publications:* Quotations from Classical Authors in Medieval Latin Glossaries 1925, Abavus Glossarium 1926, Greek Music in Papyri and Inscriptions (in New Chapters in Greek Literature) 1929, edition of Kennedy's Revised Latin Primer 1930, The Scholia Bembina 1934, edition of Arnold's Latin Prose Composition (and Latin Versions) 1938-40, Outline of Latin Prose Composition 1942; Edition of Sidgwick's Greek Prose Composition 1951, Greek Verse Composition 1955, British Universities 1966, Keele: An Historical Critique 1972. *Leisure interests:* music, photography. *Address:* 11 The Serpentine, Liverpool 19, England. *Telephone:* 051-427 3199.

MOURANT, Arthur Ernest, D.PHIL., F.R.C.P., F.R.C.PATH., D.M., F.R.S.; British doctor of medicine; b. 11 April 1904, Jersey, C.I.; s. of Ernest Charles Mourant and Emily Gertrude Bray; m. Jean Elizabeth Cameron Shimell (née Dickson) 1978; ed. Victoria Coll., Jersey, Oxford Univ., St. Batholomew's Hosp. Medical Coll.; Engaged in geological survey of U.K. 1929-31; chemical pathologist, Jersey 1935-38; Nat. Blood Transfusion Service 1944-45; Galton Lab. Serum Unit, Cambridge 1945-46; Dir. Bloodgroup Reference Lab. (Ministry of Health and Medical Research Council) 1946-65 (incorporating WHO Int. Blood Group Reference Lab.); Dir. Serological Population Genetics Lab. (Medical Research Council) 1965-72; Visiting Prof. of Serology, Colombia Univ. 1953; Hon. Sr. Lecturer in Haematology, Medical Coll., St. Bartholomew's Hosp. 1965-78; Marett Memorial Lecture, Exeter Coll., Oxford 1978; Visiting Prof. of Anthropology, Collège de France, Paris 1979; Pres. Section H (Anthropology) British Assn. for the Advancement of Science 1956; Foreign Corresp. mem. Acad. des Sciences, Inscriptions et Belles Lettres de Toulouse 1970; Hon. mem. Int. Soc. of Blood Transfusion 1975; Huxley Memorial Medal of the Royal Anthropological Inst. 1961, Landsteiner Memorial Award (American Assn. of Blood Banks) 1973. *Publications:* The Distribution of the Human Blood Groups 1954 (2nd edn. 1976), The ABO Blood Groups (with others) 1958, Man and Cattle (jt. editor) 1963, Blood Groups and Diseases (with others) 1978, The Genetics of the Jews (with others) 1978. *Leisure interests:* geology, archaeology, photography, alpine gardening, reading in sciences other than his own, travel. *Address:* The Dower House, Maison de Haut, Longueville, St. Saviour, Jersey, Channel Islands. *Telephone:* Jersey 52280.

MOUSSA, Pierre L.; French civil servant; b. 5 March 1922, Lyon, Rhône; m. Anne-Marie Trousseau 1957; ed. Ecole Normale Supérieure; Insp. of Finances 1946-50; Tech. Adviser to Sec. of State for Finance 1950-51, Dept. of External Econ. Relations 1951-54, Dir. Ministry for Overseas Territories 1954-59; Dir. of Civil Aviation, Ministry of Public Works and Transport 1959-62; Dir. Dept. of Operations for Africa, Int. Bank for Reconstruction and Devt. 1962-64; Pres. French Fed. of Assurance Cos. 1965-69; Pres. Banque de Paris et des Pays-Bas 1969-, Chair. 1978-; Officier, Légion d'honneur 1976. *Publications:* L'économie de la zone franc, Les chances économiques de la communauté Franco-Africaine, Les nations prolétaires, Les Etats-Unis et les nations prolétaires. *Address:* 87 Quai d'Orsay, Paris 75007, France. *Telephone:* 260-35-00.

MOUSSATCHÉ, Haity; Brazilian physiologist and pharmacologist; b. 21 Feb. 1910, Smyrna (now Izmir), Turkey; s. of Isidor and Sarina Moussatché; m. Cadem Soriano Moussatché; one s. one d.; ed. Instituto Universario Fluminense and Universidade do Brasil; Instructor in Physiology, Univ. de Rio de Janeiro (now Univ. do Brasil) 1931-33, Asst. Prof. of Physiology 1935; mem. staff Lab. of Physiology, Instituto Oswaldo Cruz 1934-35; Yellow Fever Lab., Rockefeller Foundation, Rio de Janeiro 1935-37; mem. Div. of Physiology and Pharmacodynamics, Instituto Oswaldo Cruz 1937-, Head of Dept. of Pharmacodynamics 1954-, Dept. of Physiology 1958-64; Prof. of Physiology, Rio de Janeiro 1946-47; Private Docent, Univ. do Brasil 1948-; Head of Investigation Unit in Physiological Sciences, Univ. Centro Occidental, Venezuela; mem. Brazilian Acad. of Sciences 1952-; Vice-Pres. Brazilian Soc. for Advancement of Science 1960-62; mem. New York Acad. of Science, A.A.A.S., Int. Soc. of Toxicology, Venezuelan Assn. for Advancement of Science. *Publications:* include studies in experimental convulsions and studies on histamine release and cell metabolism in anaphylaxis pharmacology of natural products (animal venoms, plant products), pharmacology of snake venoms and their fractions, the brown rat. *Address:* Unidad de Investigación en Ciencias Fisiológicas, Universidad Centro Occidental, Barquisimeto, Lara, Venezuela.

MOUSTIERS, Pierre Jean, L. EN. D.; French author; b. 13 Aug. 1924, La Seyne (Var); unmarried; ed. Univs. of Aix-Marseilles and Neuchâtel; Attaché at the Office des Changes, French zone in Germany 1947-49; Chief, Information Services, Nat. Information and Protection Centre for Construction (C.N.I.P.) 1950-60; medical del., pharmaceutical lab. MERCK, Darmstadt 1961-, later regional inspector; literary critic Nice-Matin, Radio-Marseille; Médaille des Combattants de la Résistance; Hommes et Lectures prize 1962; Grand Prix de littérature sportive; Grand Prix du Roman, Acad.

Française 1969, Prix des Maisons de la Presse for L'Hiver d'un Gentilhomme 1972, Grand Prix littéraire de Provence for Une place forte 1975, Prix Louis Philippe Kammans for Une place forte, Prix des libraires for Un crime de notre temps 1977. *Publications:* Le journal d'un geôlier 1957, La mort du Pantin 1961, Le pharisien 1962, La paroi 1969, L'hiver d'un gentilhomme 1971, Une place forte 1974; *Plays:* Les épreuves de Rembrandt 1957, L'argent de poche 1963, Un crime de notre temps 1976, Prima Donna 1978; *essay:* Hervé Bazin ou le romancier en mouvement 1973; *TV:* L'Hiver d'un Gentilhomme 1973, La mort du Pantin 1975, Une place forte 1976, Un crime de notre temps 1977, La ronde de nuit. *Leisure interests:* mountaineering, reading, painting and drawing, taxidermy. *Address:* Campagne Sainte Anne, Boulevard des Acacias, 83 Toulon; and 60 rue Blomet, 75015 Paris, France. *Telephone:* 41-09-36 (Toulon); 566-43-37 (Paris).

MOUTIA, Sydney, D. PHIL.; Mauritius agriculturist and administrator; b. 22 June 1932, Port Louis; s. of Raoul Moutia and Odette Haoust; m. Suzie L'Aimable 1961; one s. three d.; ed. Royal Coll., Curepipe, Coll. of Agric., Mauritius, Wye Coll., Univ. of London, St. John's Coll., Oxford, Univ. of Gauhati, India; Agricultural Officer, Mauritius 1959-61, Agronomist 1961; Lecturer Coll. of Agriculture 1961-67; Sr. Agricultural Officer, Mauritius 1968-70, Principal Agricultural Officer 1970-74; Sec.-Gen. Org. Commune Africaine et Mauricienne (OCAM) 1974-. *Publications:* The Effect of Gibberellic Acid and Growth Substances on Tea 1965, Outline of Mauritian Agriculture 1974. *Leisure interests:* gardening, walking. *Address:* OCAM, B.P. 965, Bangui, Central African Empire. *Telephone:* 61-48-31, 61-33-23.

MOWAT, Farley McGill, B.A.; Canadian author; b. 12 May 1921, Belleville, Ont.; s. of Angus and Helen (née Thomson) Mowat; m. 1st Frances Mowat 1949; m. 2nd Claire Mowat 1961; two s.; ed. Toronto Univ.; served in the Canadian Army 1939-45; Arctic exploration 1947-49; full-time writer 1950-; Hon. D.Litt. (Laurentian Univ.), Hon. D. Laws (Lethbridge, Toronto); Gov. General's Award (twice), Canadian Centennial Medal, Leacock Medal for Humour, Hans Christian Anderson Award, Anisfield Wolf Award, Mark Twain Award, etc. *Publications:* People Of The Deer 1952, The Regiment 1955, Lost In The Barrens 1956, The Dog Who Wouldn't Be 1957, Coppermine Journey 1958, The Grey Seas Under 1959, The Desperate People 1959, Ordeal By Ice 1960, Owls in the Family 1961, The Serpent's Coil 1961, The Black Joke 1962, Never Cry Wolf 1963, West Viking 1965, Curse of the Viking Grave 1966, Canada North 1967, Polar Passion 1967, This Rock Within The Sea 1968, The Boat That Wouldn't Float 1969, Sibir 1970, A Whale For The Killing 1972, Tundra 1973, Wake of the Great Sealers (with David Blackwood) 1973, The Snow Walker 1975, Canada North Now 1976. *Leisure interests:* travel, sailing. *Address:* 25 St. John Street, Port Hope, Ont., Canada.

MOYA, (John) Hidalgo, C.B.E., F.R.I.B.A.; British architect; b. 5 May 1920, Los Gatos, Calif., U.S.A.; s. of Hidalgo Moya and Lilian Chattaway; m. Janiffer Innes Mary Hall 1947; one s. two d.; ed. Oundle School, Royal West of England Coll. of Art and Architectural Assen. School of Architecture; Qualified 1944; in private practice with Michael Powell and Philip Powell (*q.v.*) 1946-50, with Philip Powell 1950-61, with Philip Powell, Robert Henley and Peter Skinner 1961-; Pimlico Housing Scheme, Winning Design in Open Competition 1946, Vertical Feature Festival of Britain Winning Design 1950, R.I.B.A. London Architecture Bronze Medal 1950, Festival of Britain Award 1951, Mohlg Good Design in Housing Award 1953, 1954, R.I.B.A. (Bucks., Berks. and Oxon.) Bronze Medal 1958, 1961, Civic Trust Awards (Class I and II) 1961, Architectural Design Project Award 1965, R.I.B.A. Architectural Award 1967 (London and S.E. Regions), Royal Gold Medal for Architecture, R.I.B.A. 1974. *Major works include:* Churchill Gardens flats, Westminster 1948-62; "Skylon" for Festival of Britain 1951; Mayfield School Putney 1955; Brasenose Coll., Oxford, extensions 1961; Christ Church Oxford Picture Gallery and undergraduate rooms 1967; St. John's Coll., Cambridge, new buildings 1967; Chichester Festival Theatre 1962; Public Swimming Baths, Putney 1967; Mental Hosp. extensions at Fairmile 1957 and Borocourt 1964; Gen. Hospitals at Swindon, Slough, High Wycombe and Wythenshawe; British Pavilion, Expo 70, Osaka, Japan; Wolfson Coll., Oxford 1974. *Address:* Powell, Moya and Partners, 21 Upper Cheyne Row, London, SW3 5JW (Office); Day's Farm, Lippitt's Hill, High Beech, Loughton, Essex, England (Home). *Telephone:* 01-636 7292 (Office); 01-508 5272 (Home).

MOYA PALENCIA, Lic. Mario; Mexican lawyer and politician; b. 14 June 1933, México, D.F.; s. of Mario Moya Iturriaga and Concepción Palencia de Moya; m. Marcela Ibáñez de Moya Palencia 1959; one s. one d.; ed. Univ. Nacional Autónoma de México; Public Relations Dept., Ferrocarriles Nacioneles de México 1955-58; in Dept. of Nat. Property 1959-64; Dir. Gen. of Cinematography, Dept. of Interior 1964-68; Pres. of Bd. of Dirs. of Productora e Importadora de Papel, S.A. (PIPSA) 1968-69; Under-Sec., Dept. of Interior 1969; Sec. of Interior 1970-76; Prof. of Constitutional Law, Univ. Nacional Autónoma de México 1977-; Dir.-Gen. Organización Editorial Mexicana (OEM) March 1977-. *Leisure interests:* reading, riding. *Address:* Insurgentes Sur 1991-A-12°, México 20, D.F., Mexico. *Telephone:* 5-50-03-83.

MOYANO LLORENA, Carlos, DR.LAW; Argentine lawyer, economist and politician; b. 1914, Córdoba; ed. Univs. of Buenos Aires and Oxford; Civil Servant until 1952; Dir. Gen. of Credit, Ministry of Finance 1950-52; Prof., School of Law, Univ. de Buenos Aires 1940-56; Prof. Univ. Católica Argentina 1958-; Prof. Nat. War Coll. 1952-70; Dir. Banco Industrial 1958-; f. magazine Panorama de la Economia Argentina; Econ. Adviser to Cen. Bank of Argentina 1967-69; Minister of Economy and Labour June-Oct. 1970; mem. Academia Nacional de Ciencias Económicas; Amb. to EEC 1976-77. *Address:* Echeverría 3433, 1430 Buenos Aires, Argentina.

MOYERS, Bill D.; American journalist; b. 5 June 1934, Hugo, Okla.; s. of Henry Joyers and Ruby Johnson; m. Judith Davidson 1954; two s. one d.; ed. Univ. of Texas, Edinburgh Univ. and Southwestern Baptist Theological Seminary; Exec. Asst. to Senator Lyndon Johnson 1959-60; Assoc. Dir. U.S. Peace Corps 1961-63, Deputy Dir. 1963; Special Asst. to Pres. Johnson 1963-66, Press Sec. to Pres. July 1965-66; Publr. of Newsday, Long Island, N.Y. 1966-70; host of This Week, weekly current affairs TV programme 1970-; Editor-in-Chief Bill Moyers Journal, Public Broadcasting Service 1971-76, 1978-; Contrib. Newsweek 1974-; Chief Corresp. CBS Reports 1976-77. *Publication:* Listening to America 1971. *Address:* 76 4th Street, Garden City, N.Y. 11530, U.S.A. *Telephone:* (516) 747-1616.

MOYERSOEN, Ludovic Marie Odilon; Belgian lawyer and politician; b. 1 Aug. 1904; m. Teresa Thuysbaert; five s. six d.; ed. Collège Saint Joseph, Alost, Collège Notre Dame de la Paix, Namur and Université de Louvain; Sec. Union Catholique Belge 1935-38; Asst. Chef de Cabinet to Prime Minister 1944-45; Co-founder Social Christian Party 1945, mem. Nat. Cttee. 1945-47; Deputy for Alost 1946-68; Minister of Justice 1950-52, of Interior 1952-54; Vice-Pres. Chamber of Deputies 1958-64, First Vice-Pres. 1964; Sec. Comm. for Revision of Constitution 1965; Minister of Nat. Defence 1965-66; mem. Belgian Del. to UN 1948; Alt. mem. Council of Europe 1949-50, mem. 1960; mem. Western European Union 1960-63, Vice-Pres. 1963-65; Pres. ITECO (Int. Tech. Co-operation) and Nat. Cttee. for Voluntary Service Overseas 1958-68; Pres. Cttee. for Econ. Devt., District of Alost 1959; numerous decorations. *Publication:* Prosper Poullet en de politiek van zijn tijd. *Address:* Hof Villa "Ten Berg", Aelbrechtlaan, Aalst (Alost), Belgium (Home). *Telephone:* 053-21454.

MOYLE, Colin James; New Zealand politician; b. 18 July 1929; ed. Auckland Grammar School, Auckland Teachers' Training Coll., Auckland Univ.; school-leader and dairy farmer 1950-60; Dominion Organizer, N.Z. Labour Party 1960-63; M.P. for Mangere 1963-76 (resgnd.); Minister of Agric., Fisheries, Forests and Science 1972-75. *Address:* 125 Coronation Road, Papatoetor, Auckland, New Zealand.

MOYNE, 2nd Baron, cr. 1932, of Bury St. Edmunds; **Bryan Walter Guinness,** M.A., BAR. AT LAW, F.R.S.L.; British and Irish brewer and writer; b. 27 Oct. 1905, London; s. of Walter Guinness, 1st Lord Moyne, and Lady Evelyn Erskine; m. 1st Diana Mitford 1929 (dissolved 1934), two s.; m. 2nd Elisabeth Nelson 1936, four s. (one deceased) five d.; ed. Eton and Christ Church, Oxford; fmr. Maj., Royal Sussex Regt.; fmr. Vice-Chair. Arthur Guinness, Son and Co.; Trustee Iveagh (Housing) Trust, Dublin, Guinness (Housing) Trust, London; a Gov., Nat. Gallery of Ireland 1955; mem. Irish Acad. of Letters; Hon. LL.D. (Trinity Coll., Dublin) 1958, (Nat. Univ. of Ireland) 1961. *Publications:* 23 Poems 1931, Singing out of Tune 1933, Landscape with Figures 1934, Under the Eyelid 1935, Johnny and Jemima 1936, A Week by the Sea 1936, Lady Crushwell's Companion 1938, The Children in the Desert 1947, Reflexions 1947, The Animal's Breakfast 1950, Story of a Nutcracker 1953, Collected Poems 1956, A Fugue of Cinderellas 1956, Catriona and the Grasshopper 1957, Priscilla and the Prawn 1960, Leo and Rosabelle 1961, The Giant's Eye 1964, The Rose in the Tree (verse) 1964, The Girl with the Flower (short stories) 1966, The Engagement 1969, The Clock 1973, Dairy Not Kept 1975, Hellenic Flirtation 1978. *Leisure interest:* travelling. *Address:* Biddesden House, Andover, Hants., England; Knockmaroon, Castleknock, Dublin, Ireland.

MOYNET, André; French politician and businessman; b. 19 July 1921; m. Madeleine de Fabre de Latude 1954; one s. two d.; ed.

Collège Saint-Michel, Lycée Voltaire, Paris; with Free French Air Force, Cameroon, Gabon, Chad; with R.A.F., U.K.; with U.S.S.R. Air Force in Normandy; Commdr. Ecole des Moniteurs, Tours 1945-46; Deputy to Nat. Ass. 1946-, Sec. of State to President's Council 1954-55; Pres. Nat. Ass. Cttee. of Nat. Defence and Armed Forces 1962-67; Test Pilot, Hurel-Dubois 32-01 and Caravelle 1966-70; builder of Moynet Jupiter aircraft, Moynet 860 motor boats, Moynet Sport Prototype racing cars; Dir.-Gen. Aérospatiale; Pres. Saint Chamond Granat; Commdr., Légion d'honneur, Médaille de l'Aéronautique, Compagnon de la Libération and several foreign decorations; Ind. Republican. *Publication:* Pilote de Combat. *Leisure interests:* golf, flying, yachting. *Address:* 32 boulevard de la Saussaye, 92200 Neuilly-sur-Seine, France. *Telephone:* 747-0712 (Office); 722-1520 (Home).

MOYNIHAN, Daniel Patrick, PH.D.; American university professor, diplomatist and politician; b. 16 March 1927, Tulsa, Okla.; s. of John Henry and Margaret A. Phipps Moynihan; m. Elizabeth T. Brennan 1955; two s. one d.; ed. City Coll. of New York, Tufts Univ. and Fletcher School of Law and Diplomacy; Dir. of Public Relations, Int. Rescue Comm. 1954; successively Asst. to Sec., Asst. Sec., Acting Sec. to Gov. of N.Y. State 1955-58; mem. N.Y. Tenure Comm. 1959-60; Dir. N.Y. State Govt. Research Project, Syracuse Univ. 1959-61; Special Asst. to Sec. of Labor 1961-62, Exec. Asst. to Sec. 1962-63, Asst. Sec. of Labor 1963-65; Dir. Jt. Center Urban Studies M.I.T. and Harvard Univ. 1966-69; Prof. of Educ. and Urban Politics, Sr. mem., Kennedy School of Govt., Harvard 1966-69, 1971-; Asst. to Pres. of U.S.A. for Urban Affairs 1969, Counsellor to Pres. (with Cabinet rank) 1969-70; Amb. to India 1973-74; Perm. Rep. to UN 1975-76; Senator from New York 1977-; Chair. Bd. of Trustees Hirshborn Museum; mem. American Philosophical Soc., American Acad. of Arts and Sciences; Hon. Fellow, L.S.E.; numerous hon. degrees; Democrat. *Publications:* Beyond the Melting Pot (co-author) 1963, Maximum Feasible Misunderstanding, Community Action in the War on Poverty 1969, The Politics of a Guaranteed Income 1973, Coping: Essays in the Practice of Government 1974, A Dangerous Place (with Suzanne Weaver) 1978; *Editor:* Defenses of Freedom: The Public Papers of Arthur J. Goldberg 1966, On Understanding Poverty: Perspective from the Social Sciences 1969, Toward A National Urban Policy 1970; co-editor of several publs. *Address:* Senate Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* (202) 224-4451.

MOYNIHAN, Maurice Gerard, B.COMM.; Irish banker; b. 19 Dec. 1902, Tralee, County Kerry; s. of Maurice and Mary (née Power) Monynihan; m. Mae Conley 1932; two s. three d.; ed. Univ. Coll., Cork; Sec. Exec. Council, Irish Free State 1937; Sec., Govt. of Ireland 1937-60; Civil Service Commr. 1937-53; Dir. Cen. Bank of Ireland 1953-60; Gov. 1961-69; Alt. Gov. for Ireland, IMF 1961-69; mem. Commrs. of Charitable Donations and Bequests for Ireland 1961-; D.Econ. Sc. h.c. (Nat. Univ. of Ireland) 1955; Knight Commdr. of St. Gregory 1959. *Publication:* Currency and Central Banking in Ireland 1922-60 1975. *Address:* 48 Castle Avenue, Clontarf, Dublin 3, Ireland. *Telephone:* 333936.

MOYNIHAN, Rodrigo, C.B.E., R.A.; British artist; b. 17 Oct. 1910; s. of Herbert James Moynihan and Maria de la Puerta; m. 1st Elinor Bellingham Smith 1931, one s.; m. 2nd Anne Dunn 1960, one s.; ed. University Coll. School, various schools in U.S.A. and Slade School of Art; mem. London Group 1933; War Artist 1943-44; shows include: Redfern Gallery 1940, 1958, 1961, Hanover Gallery 1963, 1967, Egan Gallery, New York 1966, Tibor de Nagy 1968, Fisher Fine Art 1973, Rodrigo Moynihan Retrospective, Royal Acad., London 1978; pictures owned by Chantrey Bequest, Tate Gallery, Contemporary Art Soc., Imperial War Museum, Nat. Portrait Gallery, and numerous private collectors; Fellow, Univ. Coll. London 1970. *Publications:* Goya 1951, Art and Literature (a magazine, ed. with Anne Dunn) 1960-. *Address:* 70 avenue de Léman, Lausanne, Switzerland.

MOYOLA, Baron (Life Peer), cr. 1971, of Castledawson in the County of Londonderry; **Rt. Hon. Major James Dawson Chichester-Clark;** British politician and farmer; b. 12 Feb. 1923, Castledawson; s. of James Jackson Chichester-Clark and Marion Caroline Chichester; m. Moyra Maud Haughton 1959; one step s. two d.; ed. Eton Coll.; entered Army 1942, Second Lieut. Irish Guards Dec. 1942; wounded Italy 1944; A.D.C. to Gov.-Gen. of Canada (Field-Marshal Earl Alexander of Tunis) 1947-49; attended Staff Coll., Camberley 1956; retd. from Army ■ Maj. 1960; M.P. for S. Derry, Parl. of N. Ireland 1960-73, Asst. Whip March 1963, Chief Whip 1963-67; Minister of Agric., N. Ireland 1967-April 1969; Leader of Unionist Party and Prime Minister of N. Ireland 1969-71; Privy Councillor N. Ireland 1966, Deputy Lieut. 1954; Vice-Lieut. Co. Derry 1972-. *Leisure interests:* fishing, shooting and skiing. *Address:* Moyola Park, Castledawson, Co. Derry, N. Ireland (Home).

MOYZES, Alexander; Czechoslovak composer; b. 4 Sept. 1906, Kláštor pod Znievom; s. of the late Mikuláš Moyzes; m. Marta Moyzes 1932; one d.; ed. State Conservatoire, Prague; Prof. of Theory of Music and Composition, Acad. of Music and Dramatic Arts, Bratislava 1928-48; Chief of Music Section Czechoslovak Radio, Bratislava 1937-48; Prof. Coll. of Music and Dramatic Arts, Bratislava 1949-, Rector 1966-72; mem. Cen. Cttee. Union of Czechoslovak Composers 1950; Chair. Union of Slovak Composers 1969-70; Chair. Fed. Union of Czech and Slovak Composers 1969-70; one of the founders of contemporary Slovak music; numerous prizes including 1st Prize in competition marking Int. Women's Year for the symphonic study Music to Woman 1976; Honoured Artist 1961, Nat. Artist 1966. *Compositions include:* orchestral: 11 symphonies, 9 symphonic suites, 2 overtures, Concerto for violin 1958, Concerto for flute 1967, Music to Woman 1975; *chamber:* String Quartet 1929, Divertimento for Piano 1930, Jazz Sonata for 2 pianos 1932, Wind Quintet 1933, Poetic Suite for Violin and Piano 1940, Sonata for Piano 1942, Duettino for Violin and Piano 1961, Outlaws' Rhapsody for Piano 1961, Small Sonata for Violin and Piano 1969, String Quartet 1970, Musica Istropolitana for Chamber Orchestra 1974; *vocal:* Colours on the Palette 1928, Way 1932, They Sing, Play, Dance 1937, Balladic Cantata 1958, In Autumn 1960, The Seal of My Ground, About Love Morning Dew 1963; *choir:* If the Organs Play, Trávnice, Songs of the Boys, At the Trenčín Gate, Songs. *Leisure interests:* fishing and hunting. *Address:* ul. Fraňa Králà 9, 801 00 Bratislava, Czechoslovakia.

MOZZONI, H.E. Cardinal Umberto; Argentine ecclesiastic; b. 29 June 1904, Buenos Aires; ordained priest 1927; consecrated titular bishop of Side 1954; Papal Nuncio to Brazil 1969; created cardinal by Pope Paul VI 1973. *Address:* Palazzo Altemps, 8 via di S. Apollinare, 00186 Rome, Italy. *Telephone:* 56-22-72.

MPHAHLELE, Ezekiel; South African author; b. 17 Dec. 1919, Marabastad; ed. teacher training and private study; Teacher of English and Afrikaans, Orlando, Johannesburg till 1957; Fiction Editor Drum magazine 1955; Lecturer in English Literature, Dept. of Extra-Mural Studies, Univ. Coll., Ibadan, Nigeria 1957; fmr. Dir. African Programme for the Congress for Cultural Freedom, Paris; circuit schools inspector Lebowa 1978; Researcher African Studies Inst., Univ. of Witwatersrand 1978-; has lectured at Cultural Centre, Nairobi, and Univ. of Zambia; later at Univ. of Denver. *Publications include:* Man Must Live, The Living and the Dead (short stories), Down Second Avenue (autobiography), The Wanderers 1972, In Corner B, The African Image (essays), Voices in the Whirlwind (essays). *Address:* University of Witwatersrand, Jan Smuts Avenue, Johannesburg, South Africa.

MPINGA KASENDA, PH.D.; Zairian politician and university professor; b. 30 Aug 1937, Tshilomba; ed. Elisabethville (now Lubumbashi) High School of Social Sciences, Catholic Univ. of Lovanium and Univ. of Bordeaux, France; Teacher, Tshilomba Secondary School 1957-59; studied at Lubumbashi and Lovanium Univ. 1959-65; Asst. Lecturer, Lovanium Univ. 1965-66, Prof. 1966-70; Adviser to the Chancellor, Nat. Univ. of Zaire and to the Minister of Public Admin. 1971-72; mem. Political Bureau Mouvement Populaire de la Révolution (MPR) 1972, mem. Perm. Cttee. 1974-; Deputy People's Commr. 1975, First State Commr. July 1977-; Dir. of Makanda Kabobi Inst. (MPR school) 1974-; Prof. Nat. Univ. of Zaire; Commdr., Nat. Order of Zaire and Dem. People's Repub. of Korea, Grand Officier, Ordre du Mérite National (Mauritania). *Publications:* Ville de Kinshasa, Organisation politique et administrative 1968, L'administration publique du Zaire 1973, Les reformes administratives au Zaire 1975. *Address:* Institut Makanda Kabobi, Avenue de la Gombe, Kinshasa (Office); 384 Quartier Gombele, Kinshasa/Lemba, P.O.B. 850, Zaire (Home).

MRAVINSKY, Yevgeniy Aleksandrovich; Soviet conductor; b. 4 June 1903, Leningrad; ed. Leningrad Conservatoire; Conductor Kirov State Acad. Opera and Ballet Theatre, Leningrad 1932-38; winner, All Union Conductors' Competition 1938, Conductor Leningrad State Philharmonic Orchestra 1938-; Prof., Leningrad Conservatoire 1963-; has toured England, Austria, Fed. Repub. of Germany, Dem. Repub. of Germany, Finland, Czechoslovakia, Switzerland, U.S.A., etc.; People's Artist of the U.S.S.R. 1954, Badge of Honour, State Prize 1946, Lenin Prize 1961, Hero of Socialist Labour 1973, and other decorations. *Address:* Leningrad State Philharmonic Orchestra, 1 Ploshchad Iskusstv, Leningrad, U.S.S.R.

MROZEK, Sławomir; Polish writer; b. 26 June 1930, Borzęcin; former cartoonist and journalist. *Publications include:* The Elephant 1957, Wesele w Atomicach (Wedding in Atomice) 1959, The Rain 1962 (short stories), The Ugupu Bird (short stories) 1968; Plays: The Police 1958, What ■ lovely Dream, Indyk (Turkey),

Kard, Let's Have Fun, The Death of the Lieutenant 1963, Striptease 1964, Tango 1964, On the High Seas Wacław 1970, Druga zmiana (Second Service) 1970, Testarium 1970, Blessed Event 1973, Rzeźnia (Butchery) 1973, Emigrants 1974, Garbus (Humpback) 1975, Utwory sceniczne nowe 1976, Wybór dramatów i opowiadań 1976, Krawiec (Tailor), Opowiadania o lisie (Fox Stories), Drugie danie (Second Dish), Amor 1978; series of satirical drawings: Polska w obrazach (Poland in pictures) 1957, Postępowiec (Progressive man) 1960. *Address:* Living in France.

MSUYA, Cleopa David, B.A.; Tanzanian civil servant; b. 4 Jan. 1931, Usangi Pare District; s. of David Kilenga and Maria Ngido; m. Rhoda Christopher 1959; four s. two d.; ed. Makerere Univ. Coll.; Civil Service, Community Devt. Officer 1956-61, Commr. for Community Devt. 1961-64, Principal Sec. to Ministry of Community Devt. and Nat. Culture 1964, to Ministries of Land Settlement and Water Devt. 1965-67, to Ministry of Econ. Affairs and Devt. Planning 1967-70 and to Treas. 1970-72; Minister of Finance 1972-75, for Industries 1975-; Gov. IMF; mem. Bd. of Dirs. of several public corpns. *Address:* Ministry of Industries, Dar es Salaam, Tanzania.

MTEI, Edwin Isaac Mbiliewi; Tanzanian public servant; b. 1932, Moshi; ed. Makerere Univ. Coll., Uganda; Man. Trainee, E. African Tobacco Co. 1957-59; entered govt. service 1959; responsible for Africanization and training in the Civil Service; worked with E. African Common Services Org. until 1965; Principal Sec. to Treasury 1964; Gov. Bank of Tanzania 1966-74; Sec.-Gen. E. African Community 1974-76; Minister of Finance and Planning 1976-. *Address:* Ministry of Finance and Planning, Dar es Salaam, Tanzania.

MUBARAK, Lt.-Gen. Muhammad Hosni; Egyptian air force officer and politician; b. 1929; Commander, Air Force 1972-75; Vice-Pres. of Repub. April 1975-, Dir.-Gen. Egyptian Arms Procurement Agency April 1975-; mem. Higher Council for Nuclear Energy 1975-. *Address:* Office of the Vice-President, Cairo, Egypt.

MÜCKENBERGER, Erich; German politician; b. 8 June 1910, Chemnitz (now Karl-Marx-Stadt); fmr. locksmith, Chemnitz; mem. Social Dem. Party (SPD) 1927-46, Socialist Unity Party (SED) 1946-, SED Cen. Cttee. 1950-; cand. mem. SED Politburo 1950-58, mem. 1958-; Sec. for Agric. of SED Cen. Cttee. 1953-60; First Sec. of SED Frankfurt/Oder District 1961-71; Chair. Party Control Comm. 1971-; mem. Volkskammer (People's Chamber) 1949-; Vaterländischer Verdienstorden in Gold, Karl-Marx-Orden and other decorations. *Address:* Volkskammer, Berlin, German Democratic Republic.

MUDENDA, Elijah Haatukali Kaiba; Zambian agriculturist and politician; b. 6 June 1927; ed. Makerere Univ. Coll., Uganda, Fort Hare Univ. Coll. and Cambridge Univ.; agricultural expert until 1962; mem. Legis. Ass. 1962-64; Parl. Sec. for Agric. 1962-64; mem. Zambian Parl. 1964-; Minister of Agric. 1964-67, of Finance 1967-68, of Foreign Affairs 1968-69, 1970-73, of Devt. and Finance 1969-70; Prime Minister 1975-77, also Minister of Nat. Guidance and Culture 1975-76; mem. Cen. Cttee. United Nat. Independence Party (UNIP), Chair. Political Sub-cttee. 1973-75; Chair. Nat. Comm. for Devt. Planning 1977-. *Address:* United National Independence Party, Freedom House, P.O. Box 302, Lusaka, Zambia.

MUELLER, George E.; American electrical engineer and missile scientist; b. 16 July 1918, St. Louis, Mo.; s. of Edwin and Ella F. (Bosch) Mueller; m. 1st Maude Rosenbaum 1941 (divorced 1974), two d.; m. 2nd Darla Hix Schwartzman 1978; ed. Missouri School of Mines, Purdue Univ., Ohio State Univ.; Vice-Pres. for Research and Devt., Space Tech., Labs. Los Angeles until Aug. 1963; Assoc. Admin. for Manned Space Flight, Nat. Aeronautics and Space Admin. (NASA) 1963-69; Sr. Vice-Pres. Gen. Dynamics 1970-71; Chair., Pres. System Devt. Corpn. 1971-; Fellow A.I.A.A., I.E.E.E., Royal Aeronautical Soc.; Pres. A.I.A.A. 1979; Vice-Pres. American Physical Soc.; mem. Nat. Acad. of Eng., New York Acad. of Sciences, American Geophysical Union, Int. Astronautical Fed.; Hon. Fellow, British Interplanetary Soc.; NASA Distinguished Service Medal 1966, 1968, 1969; Eugen Sanger Medal 1970; Nat. Medal of Science 1971. *Publications:* Communications Satellites (with E. Spangler), etc. *Address:* System Development Corporation, P.O. Box 3356, Santa Monica, Calif. 90403, U.S.A. (Office).

MUELLER, Rt. Rev. Reuben Herbert; American ecclesiastic; b. 2 June 1897; ed. North Cen. Coll., and Evangelical Theological Seminary, Naperville, Illinois; Minister of Evangelical United Brethren Church 1920-; High School Teacher Wisconsin and Minnesota 1919-24; Instructor North Cen. Coll. 1924-26; Pastor at Minneapolis, South Bend and Indianapolis 1921-37; Dist. Supt. Indiana Conf. of Evangelical Church 1937-42; Exec. Sec., Christian Educ. 1942-56, Vice-Pres. of Bd. 1957; also on Bd. of World Council of Christian Educ.; Assoc. Sec. of Evangelism 1946-54; Bishop 1954-68; Bishop, Indiana area United Methodist Church 1968-; Chair. Jt. Comm. on Church Union (with Methodists) 1954-; mem. Cen. Cttee. World Council of Churches 1961-; Pres. Nat. Council of Churches of Christ 1963-66; mem. numerous Church Cttees.; many hon. degrees. *Publications:* Becoming a Christian, One Body, One Spirit, Motive in Christian Teaching, Renew My Church, The Living Word, His Church 1966. *Address:* 133 West Franklin Avenue, Apt. 1, Naperville, Ill. 60540, U.S.A.

MUETTERTIES, Earl Leonard, PH.D.; American chemist; b. 23 June 1927, Elgin, Ill.; s. of Earl C. and Muriel G. (Carpenter) Muetterties; m. JoAnn M. Wood 1956; three s. three d.; ed. Northwestern and Harvard Univs.; Research Chemist, E. I. du Pont de Nemours & Co. 1952-57, Research Supervisor 1957-65, Assoc. Dir. of Research 1965; Visiting Prof. of Chem., Princeton Univ. 1967-69; Adjunct Prof., Chem. Dept., Univ. of Pa. 1969; Assoc. mem. Monell Chem. Senses Center, Univ. of Pa. 1969-; Prof. of Chem., Cornell Univ. 1973-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; American Chem. Soc. Award in Inorganic Chem. 1965. *Publications:* Chemistry of Boron and its Compounds (Editor) 1967, Polyhedral Boranes 1968, Chemist's Guide 1969, General Structural-Stereochemical Principles and Topological Analysis 1970, Transition Metal Hydrides (Editor) 1971. *Leisure interests:* skiing, fishing, surfing. *Address:* Department of Chemistry, Cornell University, Ithaca, N.Y. 14850, U.S.A. *Telephone:* (607) 256-7220.

MUETZELFELDT, Rev. Bruno, D.D.; Australian ecclesiastic; b. 7 Feb. 1918, Düsseldorf, Germany; s. of Carl and Gertrude Muetzelfeldt; m. Frieda Stolz 1942; two s.; ed. Immanuel Coll., Adelaide, and Lutheran Theological Seminary, Adelaide, S. Australia; Minister of Lutheran Church, Albury, N.S.W. 1939-46; Exec. Sec. Lutheran Youth Dept. 1946-51; Chaplain, Commonwealth Immigration Centre, Aust. 1947-51; Dir. Lutheran World Fed., Dept. of World Service in Aust. and Exec. Sec. Bd. of Immigration, United Evangelical Lutheran Church in Australia 1951-60; N.S.W. Pres. United Evangelical Lutheran Church in Aust. 1954-60; Sec. for Resettlement and Relief, Lutheran World Fed., Dept. of World Service, HQ Geneva 1960-61; Dir. Lutheran World Fed., Dept. of World Service, Geneva 1961-; mem. Int. World Refugee Year Cttee. 1960-61; Chair. Int. Council of Voluntary Agencies 1963-65; Consultant, Div. of Inter-Church Aid, Refugees and World Service, World Council of Churches 1961-71; Hon. D.D. (Capitol Univ., Ohio) 1962; Star of Jordan 1964. *Leisure interests:* swimming, cabinet making. *Address:* Lutheran World Federation, Ecumenical Centre, 150 Route de Ferney, 1211 Geneva 20, Switzerland (Office). *Telephone:* 98 94 00.

MÜEZZINOĞLU, Ziya; Turkish civil servant and diplomatist; b. 5 May 1919; m.; one s. one d.; ed. Ankara Univ. and Germany and Switzerland; Inspector of Finance, Turkish Ministry of Finance 1942-53; Adviser to Treasury, Ministry of Finance 1953-59; Dir.-Gen. of Treasury 1959-60: Dir. Gen. of Treasury and Sec.-Gen. Org. for Int. Econ. Co-operation in Turkey 1960; mem. Constituent Ass. 1960; Chair. Interministerial Cttee. for Foreign Econ. Relations 1962; Sec. of State of State Planning Org. 1962-64; Amb. to Fed. Repub. of Germany 1964-67; Amb., Perm. Delegate of Turkey to the European Communities 1967-72; Minister of Finance 1972-73, Jan. 1978-, of Trade June-July 1977; mem. Nat. Security Council; Republican People's Party (RPP). *Address:* Naliye Balkani, Ankara, Turkey.

MÜFTÜOĞLU, Ismail; Turkish jurist and politician; b. 1 Jan. 1939, Adapazari; ed. High School, Adapazari and Istanbul Univ. Law School; Primary school teacher 1960-65; legal apprenticeship 1968-69, practice 1969-73; mem. Nat. Ass. for Adapazari 1973-; Minister of Justice 1975-77; Nat. Salvation Party. *Address:* Güvenlik Cad. Esenlik Sok. 13/4, Ankara, Turkey.

MÜFTÜOĞLU, Sadik Tekin; Turkish politician; b. 1927, Çaycuma, Zonguldak; mem. of Nat. Ass. for Zonguldak 1965.; Minister of Commerce 1966-67, of State 1967-69, of Finance 1973-74; Justice Party.

MUGABE, Robert Gabriel, B.A.(EDUC.), B.SC.(ECON.); Rhodesian former teacher and nationalist leader; b. 1925, Kutama; ed. Kutama and Empanden Mission School, Fort Hare Univ.; Teacher, at Drifontein Roman Catholic School, Umvuna 1952, Salisbury S. Primary School 1953, in Gwelo 1954, Chipembe Teacher Training Coll. 1955, in Accra, Ghana 1956-60; entered politics 1960; Publicity Sec. of Nat. Dem. Party 1960-61; Deputy Sec.-Gen. Zimbabwe African People's Union 1961; detained Sept.-Dec. 1962, March-April 1963; escaped to Tanzania April 1963; Co-founder of Zimbabwe African Nat. Union (ZANU) July 1963; Sec.-Gen. Aug. 1963; in detention in Rhodesia 1964-74; Pres. ZANU; Jt. Leader of

Patriotic Front (with Joshua Nkomo) Oct. 1976-; attended Geneva Constitutional Conf. on Rhodesia 1976, Malta Conf. 1978. *Address:* C.P. 743, Maputo, Mozambique. *Telephone:* 29608.

MUGGERIDGE, Malcolm; British journalist; b. 24 March 1903; ed. Selhurst Grammar School and Selwyn Coll., Cambridge; Lecturer, Egyptian Univ., Cairo 1927-30; editorial staff, Manchester Guardian 1930-32; Manchester Guardian corresp. in Moscow 1932-33; Asst. Editor, Calcutta Statesman 1934-35; editorial staff, Evening Standard 1935-36; served in E. and N. Africa, Italy and France, Maj., Intelligence Corps, in Second World War 1939-45; Daily Telegraph Washington corresp. 1946-47; Deputy Man. Editor, Daily Telegraph 1950-52; Editor of Punch 1953-57; Rector of Edinburgh Univ. 1966-68; Légion d'honneur, Croix de guerre (with Palm), Médaille de la Résistance Française. *Publications:* Three Flats (produced by Stage Society 1931), Autumnal Face 1931, Winter in Moscow 1933, The Earnest Atheist: ■ Life of Samuel Butler 1936, In ■ Valley of this Restless Mind 1938, The Thirties 1940; edited English edition of Ciano's Diary 1947, Ciano's Papers 1948; Affairs of the Heart 1949, Tread Softly for You Tread on my Jokes 1966, London à la Mode (with Paul Hogarth) 1966, Muggeridge Through the Microphone 1968, Jesus Rediscovered 1969, Something Beautiful for God 1971, Paul—Envoy Extraordinary (with Alec Vidler) 1972, Chronicles of Wasted Time: Vol. I The Green Stick 1972, Vol. II The Infernal Grove 1973, Jesus the Man who Lives 1976, A Third Testament 1977, A Twentieth Century Testimony 1978, Things Past 1978. *Address:* Park Cottage, Robertsbridge, Sussex, England.

MUHAMMAD, Ali Nasser; Yemeni politician; b. 1939, Dathina Rural District; active mem. of Nat. Liberation Front (NLF) 1963-67; Gov. of the Islands 1967, of Second Province 1968; mem. Nat. Front Gen. Command March 1968; Minister of Local Govt. April 1969, of Defence 1969-77, of Educ. 1974-75; mem. Front Exec. Cttee. 1970; mem. Presidential Council of People's Dem. Repub. of Yemen 1971-; Prime Minister 1971-; mem. Political Bureau of Nat. Front 1972-75, of United Political Org. Nat. Front 1975-. *Address:* Office of the Prime Minister, Aden, People's Democratic Republic of Yemen.

MUHAMMADULLAH; Bangladesh lawyer and politician; b. 21 Nov. 1921, Saicha; m. Serajun Nahar Muhammadullah; three s. two d.; ed. Dacca and Calcutta Univs.; joined Dacca Bar 1950; Lawyer, High Court 1964; mem. Awami League 1950-; Sec. E. Pakistan Awami League 1952-72; mem. E. Pakistan Provincial Ass. 1970; Political Adviser to Acting Pres. Syed Nazrul Islam 1971; Deputy Speaker Bangladesh Constituent Ass. April-Nov. 1972, Speaker 1972-73; Speaker Bangladesh Parl. 1973-74: Acting Pres. of Bangladesh Dec. 1973-Jan. 1974, Pres. 1974-75; Minister of Land Admin. and Land Reforms Jan.-Aug. 1975; Vice-Pres. of Bangladesh Aug.-Nov. 1975.

MUHIEDDIN, Zakaria; (see Mohieddin).

MÜHLBOCK, Otto, PH.D. M.D.; Netherlands oncologist; b. 4 Jan. 1906; ed. Humboldt-Universität zu Berlin; Endocrinologist, Pharmacological Inst., Amsterdam 1934-40; Head, Dept. of Biology, Netherlands Cancer Inst. 1946-; Asst. Prof. of Oncology, Univ. of Amsterdam 1954-58, Prof. 1958; Chair. Research Comm., Int. Union against Cancer 1958-66, mem. Council 1966-70; mem. Royal Acad. of Science of Netherlands; Pres. European Assen. for Cancer Research; De Snoo-Van't Hoogerhuis Award 1958. *Publications:* scientific work on carcinogenesis. *Address:* Plesmanlaan 121, 1066 CX Amsterdam, Netherlands.

MUIR, Sir David John, Kt., C.M.G., F.C.I.S., F.A.S.A., F.A.I.M., A.A.U.Q., J.P.; Australian civil servant; b. 20 June 1916, Brisbane; s. of John Arthur Muir and late Grace Elizabeth Muir; m. Joan Haworth 1942: one s. one d.; ed. Commercial High School, Brisbane; Clerk, Lands Dept. 1933; Private Sec. to Queensland Premier 1939; Investigations Officer, Sugar Cane Prices Bd. 1943; Official Sec. to Premier 1946; Perm. Under-Sec., Premier and Chief Sec.'s Dept., and Clerk, Exec. Council to Queensland 1948; Agent-Gen. for Queensland in London 1951-64; Australian rep. on Int. Sugar Council 1951-64 (Chair. 1958); Pres. Chartered Inst. of Secs. 1964; Dir. of Industrial Devt., Queensland 1964-67; Chair. Queensland Theatre Co. 1969-77; Chair. Queensland Public Service Bd. 1977-; Chair. Queensland Cultural Centre Trust 1977-. *Leisure interests:* golf, gardening. *Address:* Executive Building, George Street, Brisbane, Queensland (Office); 28 Buena Vista Avenue, Coorparoo, Brisbane, Australia (Home). *Telephone:* 221-7500 (Office); 398-3012 (Home).

MUIRSHIEL, 1st Viscount (cr. 1964), of Kilmacolm; **John Scott Maclay,** K.T., P.C., C.H., C.M.G.; British ship owner and politician; b. 26 Oct. 1905; s. of Joseph Paton, 1st Baron Maclay, and Martha Strang; m. Betty L'Estrange Astley 1930 (died 1974); ed. Winchester and Trinity Coll., Cambridge; M.P. for Montrose Burghs 1940-50, for Renfrewshire West 1950-64; Head British Merchant Shipping Mission to U.S.A. 1944; Parl. Sec. Ministry of Production 1945; Minister of Transport and Civil Aviation 1951-52; Minister of State for Colonial Affairs 1956-57; Sec. of State for Scotland 1957-62; Pres. Ass. Western European Union 1955-56; Pres. Nat. Liberal Council 1957-65; Lord Lieut. of Renfrewshire. *Address:* Knapps, Kilmacolm, Renfrewshire, Scotland.

MUJEEB, Muhammad, B.A.; Indian educationist; b. 1902; ed. Oxford Univ.; joined Jamia Millia 1926; fmr. Vice-Chancellor Jamia Millia. *Publications:* History of Russian Literature, History of European Political Thought, Story of the World (in Urdu), A Glimpse of New China, World History—Our Heritage, Kimiyagar (Urdu short stories), Ordeal, The Indian Muslims, Education and Traditional Values, Ghalib, Akbar (The Great), Islamic Influence on Indian Society, Dr. Zakir Husain—A Biography. *Address:* Naseem Bagh, Jamianagar, New Delhi 110025, India. *Telephone:* 631434.

MÚJICA LAINEZ, Manuel; Argentine writer and journalist; b. 11 Sept. 1910, Buenos Aires; s. of Manuel Mújica Farías and Lucía Lainez; m. Ana María de Alvear 1936; two s. one d.; ed. Colegio Lacordaire, Buenos Aires, Colegio Nacional de San Isidro, Ecole Descartes, Paris, and Faculty of Law, Univ. de Buenos Aires; on staff of La Nación 1932-, Art Critic; Sec. Nat. Museum of Decorative Arts 1936-46; Gen. Dir. of Cultural Relations, Foreign Office 1955-58; mem. Argentine Acad. of Letters, Nat. Acad. of Fine Arts; Nat. Prize for Letters; Grand Prix, Argentine Soc. of Writers; John F. Kennedy Prize; Forti Glori Prize, and other awards. *Publications:* Glosas Castellanas 1936, Don Galaz de Buenos Aires 1938, Miguel Cane, padre 1942, Vida de Aniceto el Gallo 1943, Canto a Buenos Aires 1943, Vida de Anastasio el Pollo 1947, Aquí Vivieron 1949, Misteriosa Buenos Aires 1951, Los Idolos 1953, La Casa 1954, Los Viajeros 1955, Héctor Basaldua 1956, Invitados en el Paraíso 1957, Bomarzo 1962, El Unicornio 1965, Crónicas Reales 1967, De Milagros y de Melancolías 1968, Cécil 1973, Los Cisnes 1977. *Leisure interest:* drawing. *Address:* El Paraiso, Cruz Chica, Cordoba, Argentina.

MUKHERJEE, J. N., C.B.E, D.SC., F.N.I.; Indian research scientist; b. 1893, Mahadebpur, Rajshahi; s. of Durga Das Mukherjee and Saratsasi Banerjee; m. Ajita Chaudhuri 1922; one s.; ed. Univs. of Calcutt and London; Asst. to Palit Prof. of Chem., Calcutta Univ. 1915-1919; Guruprasad Prof. of Chem. 1921-37, Ghose Prof. of Chem. 1937-45; fmr. Dir. Indian Agricultural Research Inst., New Delhi and Cen. Bldg. Research Inst., Roorkee; fmr. Chair. Sub-Cttee. Nat. Planning Cttee. of Indian Nat. Congress; Leader, Indian Del. 3rd Int. Congress of Soil Science 1935; Convener and Pres. Indian Soc. of Soil Science 1935; mem. India Scientific Mission to U.K. and U.S.A. 1945; mem. Royal Soc. Empire Scientific Conf. and British Commonwealth Official Scientific Conf. 1946; Leader, Indian Del. to Conf. on Tropical and Sub-Tropical Soil, U.K. 1948; mem. UN Scientific Conf. on Conservation and Utilisation of Resources and Pres. of its Land Section Meeting U.S.A. 1949; mem. Gen. Ass. Int. Council of Scientific Unions, London 1946, Copenhagen 1949; mem. Exec. Cttee. and Bd. Int. Council of Scientific Unions 1947-52; Vice-Pres. Int. Soil Science Congress, Netherlands 1950, Foreign Sec. Nat. Inst. of Sciences of India 1952; Pres. Indian Science Congress Assen. 1952; Pres. Trustees Surendraneth Teaching Insts. 1952-; mem. Cen. Tea Bd. 1954; Scientific Adviser, Dept. of Agric. and Forests, W. Bengal 1952-56; Admin., Bd. of Secondary Educ., West Bengal 1955-56; mem. Union Public Service Comm. 1956-58; Chair. Land Utilization Bd., West Bengal 1959-66; Dr. Sc. h.c. (Calcutta and Burdwan) 1976; Padma Bhusan 1964. *Publications:* Over 250 papers on Physical Chemistry, Electro-Chemistry, Colloids, Soil Science, etc. *Leisure interests:* scientific studies, agricultural trials, educational institutions. *Address:* 10 Puran Chand Nahar Avenue, Calcutta 700013, India. *Telephone:* 24-3845.

MUKHITDINOV, Nuritdin Akhramovich; Soviet government official and diplomatist; b. 19 Nov. 1917, Tashkent, Uzbek S.S.R.; ed. All-Union Extra-Mural Co-operative Inst.; Party and State activity, Uzbekistan 1947-55; mem. Cen. Cttee. of the CPSU 1952-61; First Sec. Cen. Cttee. of the Uzbek CP 1955-57; alt. mem. Presidium of the Cen. Cttee. of the CPSU 1956-57, mem. 1957-61; mem. Cen. Cttee. of the CPSU 1952-66; Deputy Chair. Tsentrosoyuz (Cen. Co-operative Alliance) 1961-66; First Vice-Pres. Cttee. for Cultural Relations with Foreign Countries, U.S.S.R. Council of Ministers 1966-68; Amb. to Syrian Arab Repub. 1968-77; awarded Order of Lenin (twice). *Address:* c/o Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya Ploshchad, Moscow, U.S.S.R.

MULAISHO, Dominic Chola, B.A.; Zambian business executive; b. 15 Aug. 1933, Feira; ed. Canisius Coll., Munali Training Centre, Chalimbana Teachers' Coll., Univ. Coll. of Rhodesia and Nyasaland; Perm. Sec. Office of the Pres. 1965-66, Ministry of Lands and Natural Resources 1966-67, of Mines 1967-68, of Educ. 1968-70; Exec. Chair. Mindeco Ltd. 1970-72, Man. Dir. 1972-74; Chair. Roan Consolidated Mines and Nchanga Consolidated Copper Mines 1970-73; Gen. Man. Nat. Agricultural Marketing Bd. 1974-76; Adviser to the Pres. on Econ. Affairs 1977-. *Publication:* The Tongue of the Dumb (novel) The Smoke that Thunders (novel) 1978. *Address:* State House, P.O. Box 135, Lusaka, Zambia.

MULAMBA NYUNYI WA KADIMA, Gen. (Léonard); Zairian army officer, politician and diplomatist; b. 1928, Luluabourg (now Kananga); s. of Kadima and Ngalula Mulamba; m. Adolphine N'galula 1956; six s. two d.; ed. Military School, Luluabourg; commissioned 1954; Maj. and Deputy Dir. of Cabinet, Ministry of Defence 1961-64; Lieut.-Col. 1962; Col., Chief of Staff and Commr. of Eastern Province (now Haut Zaire) after re-occupation of Kivu Province 1964-65; Prime Minister 1965-Oct. 1966; Pres. Société Nationale d'Assurances (SONAS) 1966; Amb. to India 1967-69; Amb. to Japan 1969-76, also accred. to Repub. of Korea 1971-76; Amb. to Brazil 1976-; Mil. Medal, Cross of Bravery, Commdr., Ordre de la Couronne (Belgium), Grand Officier, Ordre Nat. du Léopard (Zaire), Ordre du Mérite (Cen. African Empire), Compagnon de la Révolution. *Leisure interests:* hunting, reading. *Address:* Embassy of Zaire, QI 9, Conf 8, Casa 20-lago sul, Brasília, D.F. 70.000, Brazil.

MULDER, Cornelius Petrus, PH.D.; South African politician; b. 5 June 1925, Warmbaths, Transvaal; s. of Commdt. P. W. A. Mulder; m. Suzanne de Wet; three s. one d.; ed. Univs. of Potchefstroom and Witwatersrand; Teacher Randgate Afrikaans Medium and Secondary Schools 1946-52; at Riebeeck Secondary School, Randfontein 1952-58; M.P. April 1958-79; Asst. Information Officer of Nat. Party 1966-67, Chief Information Officer July 1967-68; Minister of Information 1968-78, of Immigration 1968-72, of Social Welfare and Pensions 1968-74, and of Interior 1972-78, of Plural Relations and Devt. (fmrly. Bantu Admin. and Devt.) 1978; Mayor of Randfontein 1953, 1957; Chair. Div. Cttee. of Nat. Party at Randfontein and Pres. of Transvaal Municipal Assn. 1955; Leader Nat. Party in Transvaal 1972-78; fmr. mem. of numerous parl. select cttees; expelled from National Party April 1979. *Leisure interests:* tennis, reading. *Address:* c/o Department of Plural Relations and Development, Jacob Maré and Paul Kruger Streets, Pretoria, South Africa.

MULDOON, Rt. Hon. Robert David, P.C., C.H., M.P., F.C.A.N.Z., C.M.A.N.Z., F.C.W.A., F.C.I.S., A.I.A.N.Z.; New Zealand politician and public accountant; b. 21 Sept. 1921, Auckland; s. of James H. and Amie R. Muldoon; m. Thea Dale Flyger 1951; one s. two d.; ed. Mount Albert Grammar School; Sr. Partner, Kendon Mills Muldoon and Browne, Auckland; Lecturer in Auditing 1948-54; Pres. N.Z. Inst. of Cost Accountants 1956, Auckland Horticultural Council 1959-60; M.P. for Tamaki 1960-; Parl. Under-Sec. to Minister of Finance 1964-66; Minister of Tourism and Publicity 1967, of Finance 1967-72, 1975-; Deputy Prime Minister Feb.-Dec. 1972; Deputy Leader of the Opposition 1973-74, Leader 1974-75; Prime Minister Dec. 1975-; mem. Select Cttee. on Fishing Industry 1963, Road Safety 1965, Parl. Procedure 1967; mem. Public Expenditure Cttee. 1961-66, Chair. 1963-66; Dominion Councillor, N.Z. Nat. Party 1960-; Chair. Bd. of Govs. IMF 1978-79; Fellow, N.Z. Inst. of Cost Accountants, N.Z. Soc. of Accountants, Inst. of Chartered Secs., Inst. of Cost and Man. Accountants, London, Royal Horticultural Soc.; Leverhulme Prize, Inst. of Cost and Works Accountants 1946, Maxwell Award, N.Z. Inst. of Cost Accountants 1956. *Address:* Vogel House, 75 Woburn Road, Lower Hutt, New Zealand (Home). *Telephone:* 696-084.

MULHOLLAND, William David, LL.D.; American banker; b. 16 June 1926, Albany, N.Y.; s. of William David and Helen Flack Mulholland; m. Nancy Louise Booth 1957; five s. four d.; ed. Christian Brothers Acad., Albany, Harvard Coll. and Harvard Graduate School of Business Admin.; served with U.S. Army, with service in Philippines as Co. Commdr. 1944-46; joined Morgan Stanley & Co. (investment bankers) New York 1952, Partner 1962-69, resgnd.; Pres. and Chief Exec. Officer, Churchill Falls (Labrador) Corpn. Ltd. 1969-74, Brinco Ltd. 1969-75; Pres. Bank of Montreal Jan. 1975-. *Leisure interests:* fishing, shooting, hunting. *Address:* 1296 Redpath Crescent, Montreal, Quebec H3G 2KI, Canada. *Telephone:* 845-1600.

MULIKITA, Fwanyanga Matale, M.A.; Zambian politician and educationist; b. 24 Nov. 1928, Mongu; ed. Fort Hare Univ. Coll., Rhodes Univ., S. Africa and Stanford Univ., U.S.A.; Headmaster, Chalimbana Secondary School 1961-64; Perm. Rep. of Zambia to UN 1964-66; Perm. Sec., Ministry of Educ., Lusaka 1966-68, Ministry of Foreign Affairs 1968; Cabinet Minister, Luapula Province 1969; Minister of Labour and Social Services, also of Health 1969-71, of Power, Transport and Works 1971-73, of Educ. 1973-76; Chair. Council of Univ. of Zambia 1976-. *Publications:* Batili Ki Mwanaka 1958, A Point of No Return 1967, Shaka Zulu 1967, and many poems. *Address:* University of Zambia, P.O. Box 2379, Lusaka (Office); P.O. Box 76, Chilanga, Zambia (Home).

MÜLLER, Charles; Swiss diplomatist and international official; b. 4 July 1922, Zürich; s. of Hans Martin Müller and Clara (née Meyer); m. Marlise Brügger 1950; ed. Univs. of Zürich and Geneva and Graduate Inst. of Int. Studies, Geneva; Ministry of Foreign Affairs 1946-50; Embassy, Cairo 1950-55, Moscow 1955-58; Ministry of Foreign Affairs 1958-60; Head of Gen. and Legal Dept., European Free Trade Assn. (EFTA) 1960-61, Asst. Sec.-Gen. 1961-65, Deputy Sec.-Gen. 1965-66; Deputy Head of Mission, Washington, D.C. 1967-70; Amb. to Indonesia, Khmer Repub. and Repub. of Viet-Nam 1970-73; Head, Europe-N. America Div., Ministry of Foreign Affairs 1973-75; Sec.-Gen. EFTA Jan. 1976-. *Leisure interests:* skiing, golf, painting. *Address:* EFTA Secretariat, 9-11 rue de Varembé, 1211 Geneva 20 (Office); 2 rue des Granges, 1204 Geneva, Switzerland (Home). *Telephone:* 34-90-00 (Office); 21-92-56 (Home).

MÜLLER, Gebhard; German lawyer; b. 17 April 1900, Füramoos, Biberach; s. of Johannes and Josefa Müller; m. Marianne Lutz 1940; three s.; ed. Univs. of Tübingen and Berlin; lawyer by profession; held several legal positions in Württemberg Courts 1929-45; engaged in reconstruction of judicial system in Württemberg-Hohenzollern 1945; Ministerial Dir. in Provincial Ministry of Justice Dec. 1946; Provincial Pres. of CDU March 1947-57; Pres. of State, Minister of Finance and of Justice of Württemberg-Hohenzollern 1948-52, Prime Minister of Baden-Württemberg 1953-58; Pres. Constitutional Court, Karlsruhe 1959-71. *Leisure interests:* modern history, 18th and 19th century French literature. *Address:* Friedrich Ebertstrasse 112, 7000 Stuttgart, Federal Republic of Germany. *Telephone:* 25-15-83.

MULLER, Hilgard, D.LITT., LL.B., F.R.S.A.; South African lawyer, politician and diplomatist; b. 4 May 1914, Potchefstroom, Transvaal; s. of C. J. and M. A. Muller; m. Anita Dyason 1943; one s.; ed. Pretoria Univ., Oxford Univ., Univ. of South Africa; univ. lecturer 1941-46; Partner, Dyason, Douglas, Muller and Meyer, Pretoria 1947-; elected mem. Pretoria City Council 1951; Mayor 1953-55; Nat. Party M.P. for Pretoria East 1958-60; Amb. to the U.K. 1961-64; Minister of Foreign Affairs 1964-77; Chancellor, Univ. of Pretoria 1964; Dir. of various cos.; mem. Acad. of Science and Arts; D.Phil. (h.c.) (Pretoria) 1977; Grand Cross, Order of Merit of Paraguay 1966, of the Order of Christ of Portugal 1969, of the Order of Infante Dom Henrique of Portugal 1973, Decoration for Meritorious Service 1976, Grand Officer's Cross of Merit of the Sovereign Order of Malta. 1978. *Publications:* Christians and Pagans from Constantine to Augustine, Merkwaadige figure uit die Oudheid, other books on history and biography; numerous articles on foreign policy and literary subjects. *Leisure interests:* reading, golf and farming. *Address:* P.O.B. 793, Pretoria, South Africa.

MULLER, Margarete; German politician and agronomist; b. 18 Feb. 1931, Neustadt, Upper Silesia; ed. Leningrad Univ., U.S.S.R.; joined Sozialistische Einheitspartei Deutschlands (SED) 1951; Chair. of an agricultural production co-operative 1958-; mem. SED Cen. Cttee., Volkskammer and cand. mem. Politburo 1963-; mem. Council of State 1971-; Vaterländischer Verdienstorden in Silber, Banner der Arbeit and other decorations. *Address:* 102 Berlin, Am-Marx-Engels Platz 2, German Democratic Republic.

MÜLLER, Dr. Paul H.; Swiss business executive; b. 19 Jan. 1918; ed. Univ. of Basel; joined Swiss Aluminium Ltd. (Alusuisse) 1943, mem. Man. Bd. 1963-, Gen. Man. 1966-75, Exec. Vice-Pres. 1975, Pres. 1976-. *Address:* Alusuisse, 8034 Zurich, Feldeggstrasse 4, Switzerland. *Telephone:* 01-34-90-90.

MULLER, (Stephanus) Louwrens, LL.B.; South African politician; b. 27 Sept. 1917, Cape Province; m. Ruby Olive Oxborrow; two d.; ed. Cape Tech. Coll.; practised law 1949-56; mem. Cape Provincial Council 1956-59; Chair. Cape Provincial Council 1959-60; M.P. for Ceres, Cape Province 1961-; Deputy Minister of Justice, Police and Prisons 1966, of Police, Finance and Econ. Affairs 1966-68; Minister of Police and of the Interior 1968-70, of Police and Econ. Affairs 1970-74, Minister of Transport 1974-79; Nat. Party. *Leisure interest:* golf. *Address:* House of Assembly, Cape Town, South Africa.

MULLER, Steven, PH.D.; American (b. German) university and hospital president; b. 22 Nov. 1927, Hamburg, Germany; s. of

Werner A. and Marianne (Hartstein) Muller; m. Margie Hellman 1951; two d.; ed. Hollywood High School, Los Angeles, Univ. of Calif., Los Angeles, Oxford Univ. Cornell Univ.; Instructor in Political Science, Wells Coll. 1953; U.S. Army 1954-55; Research Fellow in Social Science, Cornell Univ. 1955-56; Asst. Prof. of Political Science, Haverford Coll. 1956-58; Asst. Prof. of Govt., Cornell Univ. 1958-61, Assoc. Prof. and Dir. Center for Int. Studies 1961-66, Vice-Pres. for Public Affairs 1966-71; Provost, Johns Hopkins Univ. 1971-72, Pres. 1972-; Pres. Johns Hopkins Hosp. 1972-; mem. Bd. of Dirs., Baltimore Museum of Art, Whitney Museum of American Art, New York, Council for Financial Aid to Educ., Commercial Credit Co., Fed. Reserve Bank of Richmond, Chessie Systems Inc., Nat. Assen. of Ind. Colls. and Univs.; mem. American Acad. Arts and Sciences, Council Foreign Relations, American Political Science Assen., Int. Inst. Strategic Studies. *Publications:* Documents on European Government 1963; articles in learned journals. *Address:* The Johns Hopkins University, 34th and Charles Streets, Baltimore, Md. 21218 (Office); 1405 Harper House, Village of Cross Keys, Baltimore, Md. 21210, U.S.A. (Home). *Telephone:* 301-338-8068 (Office); 301-323-3851 (Home).

MULLER, Thomas Frederik; South African businessman; b. 12 Dec. 1916; s. of late Cornelius Johannes Muller and Martha Aletta Muller (née Dreyer); m. 1st Susanna Elizabeth Jordaan 1942 (dies 1968), two d.; m. 2nd Nicolette van Schalkwyk 1970, one s.; ed. Ermelo High School, Univ. of the Witwatersrand and Birmingham Univ., England; employed by Rand Leases Mine of Anglo-Transvaal group of cos. 1937-49; Mine Man., Virginia Mine 1949-55; Asst. Consulting Engineer, Head Office 1955-57; Tech. Man., Federale Mynbou Beperk Feb. 1957-58, Gen. Man. 1958-61, Man. Dir. 1961-71; Man. Dir. Gen. Mining and Finance Corpn. Ltd. 1963-71; Chair. S. African Iron and Steel Industrial Corpn. Ltd. (ISCOR) 1971-; Chair. Amcor, Metkor, Int. Pipe and Steel Investments and other cos. in the ISCOR group; fmr. Pres. Chamber of Mines of S. Africa, Afrikaanse Handelsinstituut; mem. Prime Minister's Econ. Advisory Council; Hon. D.Comm. (Potchefstroom). *Publications:* Several papers on mining matters, especially on shaft-sinking at Virginia and Merriespruit Mines. *Leisure interests:* golf and angling. *Address:* ISCOR, P.O. Box 450, Pretoria 0001 (Office); 17 Molesey Avenue, Auckland Park, Johannesburg 2092, South Africa (Home). *Telephone:* 41-4111 (Office); 726-3445 (Home).

MULLEY, Rt. Hon. Frederick William, P.C., M.P.; British barrister, economist and politician; b. 3 July 1918, Leamington Spa, Warwicks.; m. Joan Phillips 1948; two d.; ed. Warwick School and Christ Church, Oxford; fmr. clerk, Nat. Health Insurance Cttee., Warwicks.; Army Service 1939-45, Prisoner-of-War 1940-45; Adult Scholar, Christ Church, Oxford 1945-47; Research Studentship, Nuffield Coll., Oxford 1947-48; Fellow of St. Catharine's Coll., Cambridge 1948-50; M.P. 1950-; Parl. Private Sec. to Minister of Works 1951; called to Bar, Inner Temple 1954; mem. Nat. Exec. Cttee. Labour Party 1957-58, 1960-; Deputy Sec. of State for Defence and Minister of Defence for the Army 1964-65; Minister of Aviation 1965-67; Minister of State for Foreign Affairs 1967-69; Minister of Transport 1969-70, 1974-75; Chair. Labour Party 1974-75; Sec. of State for Educ. and Science 1975-76, for Defence 1976-79. *Publication:* The Politics of Western Defence 1962. *Leisure interests:* gardening, sport, reading. *Address:* House of Commons, London, S.W.1, England.

MULLIKEN, Robert Sanderson, PH.D.; American professor of physics and chemistry; b. 7 June 1896, Newburyport, Mass.; s. of Prof. Samuel Parsons Mulliken and Katherine Wilmarth Mulliken; m. Mary Helen von Noé 1929 (died 1975); two d.; ed. Massachusetts Inst. of Tech. and Univ. of Chicago; Organic Chemical Research (mainly Chemical Warfare) 1917-19; research on separation of isotopes 1919-23; on isotope effect in diatomic spectra 1923-26; on electronic spectra and electronic structure of diatomic and polyatomic molecules, and valence theory 1925-; Nat. Research Fellow 1921-25; Asst. Prof. of Physics, Washington Square Coll., New York Univ. 1926-28; Assoc. Prof. of Physics, Univ. of Chicago 1928-31, Prof. 1931-61, Distinguished Service Prof. 1961-; work on Plutonium Project at Chicago 1942-45; Scientific Attaché, American Embassy, London 1955; Ernest de Witt Burton Distinguished Service Prof. 1956-61; Distinguished Research Prof. of Chemical Physics, Florida State Univ. 1964-71; mem. American Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences, Int. Acad. of Quantum Molecular Science; Baker Lecturer, Cornell Univ. 1960; Silliman Lecturer, Yale Univ. 1965; Visiting Prof. Bombay and Kanpur 1962, Amsterdam 1965, Santa Barbara 1968, Paris 1968, Austin, Texas 1970; Gilbert N. Lewis Gold Medal 1960, Theodore W. Richards Gold Medal 1960, Peter Debye Award 1963, J. G. Kirkwood Medal 1965, J. Willard Gibbs Medal 1965, C.C.N.Y. Gold Medal 1965, Chicagoan of the Year Press Club Award 1966, Nobel Prize in Chemistry 1966; Hon. Fellow, Chemical Soc. (London); Foreign mem. Royal Soc. (U.K.) 1967; Hon. mem. Société de Chimie Physique, Royal Irish Acad., Chemical Soc. of Japan; Hon. Fellow, Indian Nat. Acad. of Sciences; Corresp. mem. Société Royale des Sciences, Liège; Hon. Sc.D. (Columbia, Gustavus Adolphus Coll.), Hon. Ph.D. (Stockholm), Hon. Sc.D. (Cambridge) 1967. *Leisure interests:* Japanese prints, oriental rugs, botany. *Address:* Chemistry Department, University of Chicago, Chicago, Ill. 60637 (Office); 5825 South Dorchester Avenue, Chicago, Ill. 60637, U.S.A. (Home). *Telephone:* 753-8313-4 (Office); 493-0322 (Home).

MULUZI, Elson Bakili; Malawaian educationist and politician; b. 17 March 1943, Kasupe District; ed. Malosa Secondary School, Bolton Coll. of Educ., England, and Thisted Coll. of Further Educ., Denmark; Technical coll. principal 1971-75; elected Mem. of Parl. 1975; Junior Minister for Youth and Culture 1976; Minister of Educ. 1976-77; Minister without Portfolio July 1977-; Sec.-Gen. and Admin. Sec. Malawi Congress Party (MCP) May 1977-; mem. Nat. Exec. Cttee. MCP. *Address:* Malawi Congress Party Headquarters, Private Bag 388, Lilongwe, Malawi.

MUMFORD, Lewis; American writer; b. 19 Oct. 1895; Flushing, N.Y.; s. of Lewis Mumford and Elvina Baron; m. Sophia Wittenberg 1921; one s. (killed 1944) one d.; ed New York City Coll., New York Univ., Columbia Univ.; Assoc. Editor The Dial 1919; Acting Editor Sociological Review, London 1920; Lecturer, Geneva School of Int. Studies 1925 and 1929; Guernsey Centre Moore Foundation Lecturer, Dartmouth Coll. 1929; Earle Lecturer, Pacific School of Religion 1947; Bampton Lecturer, Columbia Univ. 1951; co-Editor The American Caravan 1926-36; mem. Bd. of Higher Educ., City of New York 1935-37; mem. Comm. on Teacher Educ., American Council on Educ. 1938-44; Consultant on Planning, City and County Park Bd., Honolulu 1938; Prof. of Humanities, Stanford Univ. 1942-44; Prof. Univ. Pennsylvania 1952-61, Hon. Fellow R.I.B.A. 1942; Hon. mem. Town Planning Inst. (U.K.) 1946; Hon. Vice-Pres. Int. Housing and Town Planning Fed. 1947; Bemis Prof. M.I.T. 1957-60, Visiting Abrams Prof. 1975; Hon. Fellow Stanford Univ. 1941; Fellow American Acad. of Arts and Sciences; mem. American Philosophical Soc.; mem. Nat. Inst. of Arts and Letters, Pres. American Acad. of Arts and Letters 1963-65; Consultant on Planning, Christ Church, Oxford, England; hon. mem. American Inst. of Architects, American Inst. of Planners; Co-Chair. Wenner-Gren Conf. on Man's Role in shaping the Face of the Earth 1955; Guggenheim Fellow 1932, 1938, 1956; Ford Research Prof. Univ. of Pa. 1959-61, Univ. of Calif. 1961-62; Saposnekow lecturer, City Coll. of New York 1962, Hon. LL.D. (Edinburgh), Hon. D.Arch. (Rome), numerous medals and awards incl. Royal Gold Medal, R.I.B.A. 1961, Nat. Medal for Literature 1972, Prix Mondial del Duca 1976. *Publications:* Story of Utopias 1922, Sticks and Stones 1924, The Golden Day 1926, Herman Melville 1929 (revised edn. 1960), The Brown Decades 1931, Technics and Civilisation 1934, The Culture of Cities 1938, Whither Honolulu? 1938, Men Must Act 1939, Faith for Living 1940, The South in Architecture 1941, The Condition of Man 1944, City Development 1945, Values for Survival 1946, Green Memories—The Story of Geddes Mumford 1947, The Conduct of Life 1951, Art and Technics 1952, In the Name of Sanity 1954, The Transformations of Man 1956, The City in History 1961, The Highway and the City 1963, Technics and Human Development 1967, The Urban Prospect 1968, The Pentagon of Power 1970, Interpretations and Forecasts 1922-1972 1972, Findings and Keepings 1914-1936—Analects for an Autobiography 1975, My Works and Days: A Personal Chronical 1895-1975 1979. *Leisure interest:* gardening. *Address:* Amenia, N.Y. 12501, U.S.A. *Telephone:* 914-373-8579.

MUMFORD, L. Quincy, M.A.; American library administrator (retd.); b. 11 Dec. 1903; s. of Jacob Edward and Emma Luvenia (née Stocks) Mumford; m. 1st Permelia C. Stevens 1930 (died 1961); m. 2nd Betsy Perrin Fox 1969; one d.; ed. Duke and Columbia Univs.; Duke Univ. Library 1922-28; Columbia Univ. Library 1928-29, New York Public Library 1929-45; Asst. Dir. Cleveland Public Library 1945-50, Dir. 1950-54; Librarian of Congress 1954-74; retd. 1974; Benjamin Franklin Fellow of the Royal Soc. for the Encouragement of Arts, Mfrs. and Commerce (London); Del. to Int. Fed. of Library Assens; mem. British Museums Soc. *Address:* 3721 49th Street, N.W., Washington, D.C. 20016, U.S.A.

MUMFORD, Milton Christopher, A.B.; American businessman; b. 14 April 1913, Marissa, Ill.; s. of Manly J. Mumford and Emily Stearns; m. Dorothea Louise Green 1942; three c.; ed. Univ. of Illinois; joined Marshall Field and Co., Chicago 1935, Vice-Pres. 1948-54, Gen. Man. Fieldcrest Mills Div. 1950-53; Pres. Fieldcrest Mills Inc. 1953-54; Vice-Pres. Lever Bros. Co. 1954-55, Exec. Vice-Pres. 1955-59, Pres. and Chief Exec. Officer 1959-65, Chair. of Bd.

1964-72; Dir. Equitable Life Assurance Society of U.S. 1962-; Chair. Educational Facilities Labs. Inc. (Ford Foundation) 1959-72; Trustee, Consolidated Edison Co. of New York 1964-; Dir. Stamford Hosp., Stamford, Conn. 1964-, Crown Zellerbach Corpn. 1965-, Nat. Educational TV 1965-69, Unilever subsidiaries 1965-, Fed. Reserve Bank of New York 1966-72; Nat. Volunteer Chair., United Community Campaigns of America 1966; mem. Nat. Industrial Conf. Bd. 1959-72; Dir. Nat. Merit Scholar Scholarship Corpn. 1965-71; Trustee, Presbyterian Hosp. (New York) 1967-; mem. Nat. Council Foreign Policy Asscn. 1967-, Emergency Cttee. for American Trade 1968-72, Nat. Ind. Pollution Control Council 1970-72, Nat. Advisory Cttee. of "Jobs for Veterans" 1970; Dir. Int. Executives Service Corps. 1968-72; Hon. LL.D. (Long Island); Legion of Merit, U.S. Navy 1945; Alumni Achievement Award (Univ. of Illinois) 1971. *Address:* Lever Brothers Co., 390 Park Avenue, New York, N.Y. 10022, U.S.A. *Telephone:* 212-688-6000.

MUNA, Solomon Tandeng; Cameroonian politician; b. 1912, Ngen-Mbo, Momo Division; s. of Muna Tayim and Ama Keng Muna; m. Elizabeth Fri Muna 1937; seven s. one d.; ed. Teacher Training Coll., Kumba and Univ. of London Inst. of Educ.; M.P. for Bamenda District 1951; Eastern Nigeria Minister for Public Works 1952; Minister of Works, subsequently Minister of Commerce and Industries, Minister of Finance, Southern Cameroon Region; Minister of Transport, Mines, Posts and Telecommunications of Cameroon 1961-68; Prime Minister of W. Cameroon 1968-72, also Vice-Pres. Fed. Repub. of Cameroon 1970-72; Minister of State 1972-73; Pres. Nat. Ass. 1973-; Co-Chair. ACP-EEC States Consultative Ass. 1978-; fmrly. Chair. Bd. of Dirs. Cameroon Railways, Chair. Higher Cttee. on Cameroon Ports; has represented Cameroon at various int. confs.; mem. Bureau of the Cameroon Nat. Union Party; Chief Scout of Cameroon 1970-77; Chair. African Scout Cttee. 1973-77, mem. World Bureau of Scouts 1975, Vice-Chair. World Scout Cttee. 1977-; Commdr., Ordre de la Valeur du Cameroun, Officier, Légion d'honneur and numerous other foreign decorations. *Leisure interests:* horseback riding, stamp collecting, scouting, gardening, fishing. *Address:* c/o National Assembly, Yaoundé, United Republic of Cameroon. *Telephone:* Yaoundé 22-20-44 (Office); 22-43-44 (Home).

MÜNCH, Guido, PH.D.; American astronomer; b. 9 June 1921, Mexico; s. of August Münch and Maria Paniagua; m.; three s. one d.; ed. Univs. of Mexico and Chicago; Instructor Univ. of Chicago 1947-51; with Calif. Inst. of Tech. 1951-77; Dir. Max Planck Inst. für Astronomie, Heidelberg, 1978. *Publications:* many articles in various scientific journals and chapters in monographs and books. *Address:* Max Planck Institut für Astronomie, 6900 Heidelberg-Königstuhl, Federal Republic of Germany (Office). *Telephone:* 06221-5281.

MÜNCHINGER, Karl; German musician; b. 29 May 1915, Stuttgart; s. of Karl and Emilie Münchinger; m. Olga Rockenhäuser; ed. Staatliche Musikhochschule, Stuttgart and Konservatorium Leipzig; church organist in Stuttgart 1937-41; Conductor Niedersachsenorchester Hanover 1941-43; founded Stuttgart Chamber Orchestra 1945, Conductor 1945-, Klassische Philharmonie Stuttgart 1966, Conductor 1966-; guest conductor of various symphony orchestras; Grosses Verdienstkreuz mit Stern; Commdr. des Arts et des Lettres, Officier des Arts et des Lettres; Hon. Prof. Kulturministerium Baden-Württemberg. *Leisure interests:* collecting antiques and books. *Address:* Haus am Rebenhang, 7 Stuttgart-Rotenberg, Federal Republic of Germany. *Telephone:* Stuttgart 29-45-26.

MÜNCHMEYER, Alwin; German banker; b. 19 March 1908, Hamburg; s. of Hermann and Elisabeth Münchmeyer; m. Gertrud Nolte 1934; one s. four d.; ed. High School; Chair. Advisory Bd., Schröder, Münchmeyer, Hengst and Co., Hamburg, Frankfurt, Offenbach; mem. Exec. Cttee. German Section, Int. Chamber of Commerce; mem. Council Int. Chamber of Commerce; Chair. Foreign Trade Advisory Bd., Ministry of Econ., Bonn; Chair. Allgemeine Kreditversicherung AG, Mainz, Philips GmbH, Hamburg, Nord-Deutsche Versicherungs AG, Hamburg, Hamburg-Mannheimer Sachversicherungs AG, Hamburg, Vereins-und Westbank AG, Hamburg; fmr. Pres. Deutscher Industrie- und Handelstag, Asscn. of German Banks; mem. Bds. and Advisory Bds. of other companies. *Leisure interests:* riding, tennis, hiking, icons. *Address:* Schröder, Münchmeyer, Hengst and Co., 2 Hamburg 1, Ballindamm 33, Federal Republic of Germany (Office). *Telephone:* 32 951.

MUNDEBO, (Kurt Allan) Ingemar, FIL.LIC.; Swedish politician and fmr. university teacher; b. 15 Oct. 1930, Långasjö; s. of Magni and Hildegard Gustavsson; m. Lillemor Ericsson 1973; one s. one d.; Asst. in Nat. and Communal Admin. 1950-56; teacher in secondary school 1956-60; Lector in School of Social Studies 1960-64; Head of Dept., Univ. of Stockholm 1964-76; mem. Riksdag (Parl.) 1965-, Nordic Council 1969-76; Minister of Finance Oct. 1976-, and Econ. Affairs Oct. 1978-; mem. Folkpartiet (Liberal Party); Kt., Order of North Star. *Publications:* Ny kris i befolkningsfrågan? 1962, Social Administration 1963, Socialkunskap 1968, Forvaltningskunskap 1970, Våra villkor 1975. *Address:* Ministry of Finance and Economic Affairs, Riddarhustorget 7-9, Fack, S-103 10, Stockholm (Office); Floragatan 14, 114 31 Stockholm, Sweden (Home). *Telephone:* 00946-8-7631000 (Office); 00946-8-108630 (Home).

MUNEKATA, Eiji, DR.ENG.SC.; Japanese industrialist; b. 24 Jan. 1908, Tokyo; s. of late Nagaharu and Haruko Nagaike; m. Miyoko Kitaoka 1938; two s. one d.; ed. Tokyo Imperial Univ.; Section Chief, Nippon Bemberg Silk Co. 1931; Chief Engineer, Chosen Artificial Petroleum Mfg. Co. 1939; Head of Dept., Nippon Chisso Fertilizer Co. 1944; Dir., subsequently Man. Dir. Asahi Chemical Industry Co. 1947; Dir. Japan Atomic Energy Research Inst. 1962, Pres. 1968-78. *Publications:* Separation 1950, Man-made Fibre 1955, Researches on Chemistry and Industrialization 1965. *Leisure interests:* sports (golf, swimming), gardening. *Address:* 31, 1-chome, Zenpukuji-machi, Suginami-ku, Tokyo, Japan. *Telephone:* 03-390-6364.

MUNGAI, Joseph James; Tanzanian politician; b. 24 Oct. 1943; m. Mary Chawe 1967; three s. one d.; joined Singer Sewing Machine Co. as internal auditor 1965, later Dist. Man., Wholesale Man. and Training and Devt. Man.; Gen. Man. Tanzania Elimu Supplies Ltd. 1970-72; mem. for Mufindi in Nat. Ass. 1970-; mem. Chama Cha Mapinduzi (CCM), fmrly. Tanganyika African Nat. Union (TANU); Minister for Agric. 1972-75; Gen. Man. Sugar Devt. Corpn. 1976-; Dir. Tanzania Zambia Railway Authority, Tanzania Petroleum Devt. Corpn.; Chair. Nat. Sports Council; fmr. Chair Elimu Supplies TANU Branch. *Leisure interests:* squash, soccer, dancing, tennis. *Address:* P.O. Box 4355, Dar es Salaam, Tanzania.

MUNGAI, Njoroge, M.D.; Kenyan politician and doctor; b. 1926, Dagoretti, Kikuyu; ed. Presbyterian Church Elementary School, Kikuyu, Alliance High School, Fort Hare Univ. (S. Africa), Stanford Univ., Calif., and Columbia Univ. Presbyterian Medical Center, N.Y.; E. African Airways Ground Officer 1946-47; bus driver 1947-48; Intern King's County Hosp., New York 1958; returned to Kenya and practised medicine at private clinics in Thika, Riruta and Embu and ran mobile clinic; mem. Nat. Exec. KANU, Chair. Thika branch of KANU; mem. House of Reps. 1963-74; Minister for Health and Housing 1963-65; Minister of Defence 1965-69; Minister of Foreign Affairs 1969-74; mem. Kenya Educ. Fund Cttee., Nat. Nutritional Council; fmr. Pres. Kenya Medical Assn.; personal physician to late Pres. Jomo Kenyatta. *Leisure interest:* golf. *Address:* c/o Ministry of Foreign Affairs, P.O. Box 30551 Nairobi, Kenya.

MUNG'OMBA, Wila D'Israeli, B.A.; Zambian barrister and international official; b. 18 Oct. 1939, Mbereshi; s. of Duncan Israel and Marjory Chitupa Mung'omba; m. Linda Eleanor Jordan 1967; two d.; ed. Munali Secondary School, Makerere Coll., Uganda, and Inner Temple, London; Solicitor, City Council of Lusaka 1968; legal and political adviser/First Sec. of Ministry of Foreign Affairs, to Zambia Perm. Mission to UN 1969-70; legal practitioner 1971-; mem. Nat. Ass. 1971-; Exec. Dir. IMF 1976-78; Minister Counsellor (Econ.), Embassy of Zambia to U.S.A. 1977-; Sec. Law Assn. of Zambia; Sec.-Gen. Alumni Assn. of American and Int. Law, South Western Legal Foundation, Tex., U.S.A. *Leisure interests:* reading, music, soccer. *Address:* Zambian Embassy, 2419 Massachusetts Avenue, N.W., Washington 20008, U.S.A.

MUÑIZ, Carlos Manuel, LL.D.; Argentine diplomatist and university professor; b. 2 Feb. 1922, Buenos Aires; unmarried; ed. Univ. de Buenos Aires; Under-Sec. of Interior and Justice 1955, of Interior 1955-56; Amb. to Bolivia 1956-59, to Brazil 1959-62; Minister of Foreign Affairs and Worship 1962-63; Prof. of Int. Public Law, Univ. de La Plata 1963-, also Dir. Int. Law Inst.; Prof. of Constitutional Law, Univ. de Buenos Aires; Special Prof. of Int. Law and Int. Relations, Univ. Católicà de La Plata; Amb. to U.S.A. 1971-73; decorations from govts. of Bolivia, Brazil, Japan, Peru, Paraguay. *Publications:* many books and articles on legal, sociological and literary themes. *Address:* Parera 117, Buenos Aires, Argentina. *Telephone:* 42-3227.

MUNK, Frank; American (fmr. Czechoslovak) economist and political scientist; b. 26 May 1901, Kutna Hora, Czechoslovakia; s. of Alfred and Marie (Mautnerová) Munk; m. Nadežda Prasilová 1925; one s. one d.; ed. Prague, Columbia and Harvard Univs.; student and youth leader Czechoslovakia; Fellow Rockefeller Foundation U.S. 1931-33; Chair. Prague Univ. L.N. Fed. 1934-36, Masaryk Acad. 1931-38; with Social Inst., Ministry of Welfare, Prague 1931-39; Lecturer Reed Coll., Portland, Oregon 1939-41;

Lecturer in Econs., Univ. of Calif., Berkeley, to 1944; Dir. UNRRA Training Centre, Univ. of Maryland 1944-45; Chief Econ. Adviser UNRRA 1946; Prof. Reed Coll., Portland, Oregon 1946-65; Dean Northwest Inst. of Int. Relations 1947-56; Visiting Prof. Univ. of Washington 1952; Public mem. Regional Wage Stabilisation Bd. 1951-52; mem. Exec. Council, Pacific North-west Political Science Asscn. 1952-55, Pres. 1968-69; Adviser on Intellectual Co-operation to the European Dir., Radio Free Europe, Munich 1958-60; Research Fellow, Atlantic Inst. (Paris) 1961-62; Visiting Prof. Political Science, Coll. of Europe (Brussels) 1961-62; Research Consultant, Foreign Policy Research Inst., Univ. of Pennsylvania 1963-65; Prof. of Political Science and Assoc. Dir. Cen. European Studies Center, Portland State Coll. 1965-; Exec. Council Western Slavic Assn. 1970-72; Pres. World Affairs Council of Oregon 1972-73; World Affairs Commentator, Public T.V. Oregon 1975-. *Publications include:* The Legacy of Nazism 1943, Atlantic Dilemma 1963. *Leisure interests:* hiking, swimming, photography. *Address:* 3808 S.W., Mt. Adams Drive, Portland, Oregon 97201, U.S.A. *Telephone:* 503-227-3334.

MUNK, Walter Heinrich, PH.D.; American professor of geophysics; b. 19 Oct. 1917, Vienna, Austria; s. of Hans and Rega (Brunner) Munk; m. Judith Horton 1953; two d.; ed. California Inst. of Tech. and Scripps Inst. of Oceanography; Asst. Prof. of Geophysics, Univ. of Calif. at San Diego 1947-49, Assoc. Prof. 1949-54, Prof. Inst. of Geophysics and Scripps Inst. 1954-; Assoc. Dir. Inst. of Geophysics and Planetary Physics (Systemwide), Univ. of Calif. 1959-; Guggenheim Fellow, Oslo Univ. 1948, Cambridge Univ. 1955, 1962, Josiah Willard Gibbs Lecturer, American Mathematical Soc. 1970; Sr. Queen's Fellow, Aust. 1978; Fellow, American Meteorological Soc., A.A.A.S., Explorers Club; mem. American Geological Soc., Nat. Acad. of Sciences (Chair. Geophysics Section 1975-78), American Acad. of Arts and Sciences, American Philosophical Soc., Deutsche Akademie der Naturforscher Leopoldina, Acoustical Soc. of America; Foreign mem. Royal Soc., London; D.Phil. h.c. (Bergen) 1975; Arthur L. Day Medal of Geological Soc. of America 1965, Sverdrup Gold Medal of American Meterological Soc. 1966, Alumni Distinguished Service Award of Calif. Inst. of Tech. 1966, Gold Medal of Royal Astronomical Soc. 1968, Calif. Scientist of the Year Award of Calif. Museum of Science and Industry 1969, Maurice Ewing Medal, American Geophysical Union, U.S. Navy 1976, Agassiz Medal Nat. Acad. of Science 1976, Capt. Robert Dexter Conrad Award, Dept. of the Navy 1978. *Publications:* Co-author The Rotation of the Earth: A Geophysical Discussion 1960, and numerous scientific articles 1945-. *Leisure interests:* skiing, swimming. *Address:* Institute of Geophysics and Planetary Physics, A-025 University of California, San Diego, La Jolla, Calif. 92093 (Office); 9530 La Jolla Shores Drive, La Jolla, Calif. 92037, U.S.A. (Home). *Telephone:* 714-452-2877 (Office); 714-453-2452 (Home).

MUÑOZ DUQUE, H. E. Cardinal Anibal; Colombian ecclesiastic; b. 3 Oct. 1908, Santa Rosa de Osos, Antioquia; s. of Jesús Muñoz and Rosa Duque de Muñoz; ordained 1933; consecrated Bishop of Socorro y San Gil 1951; transferred to Bucaramanga 1952; Archbishop of Nueva Pamplona 1959-68; Apostolic Administrator Bogotá 1967-72; Pres. Colombian Episcopal Conf. 1964-72; titular Archbishop of Cariana 1968; Archbishop of Bogotá 1972-; created Cardinal by Pope Paul VI 1973; mem. Sacred Congregation for the Sacraments and Divine Worship. *Address:* Arzobispado, Carrera 7, No. 10-20, Bogotá 1, D.E., Colombia.

MUÑOZ LEDO, Porfirio; Mexican politician and university professor; b. 1933; ed. Univ. Nacional Autónoma de México; Prof. of Political Science, Univ. Nacional Antónoma de México and El Colegio de México 1958-69; Gen. Sec. Instituto Mexicano del Seguro Social 1966-70; worked for election campaign of Pres. Echeverría (*q.v.*) 1969; Private Sec. to Pres. Echeverría 1970-72; Sec. for Labour and Social Security 1972-75, for Educ. 1976-77; Pres. Partido Revolucionario Institutional 1975-77. *Address:* c/o CEN, Partido Revolucionario Institucional, Insurgentes Norte 59, México, D.F., Mexico.

MUÑOZ VEGA, H. E. Cardinal Paolo, S.J., D.PHIL., D.THEOL.; Ecuadorean ecclesiastic; b. 23 May 1903, Mira; s. of Antonio Muñoz and Josefa Vega; ordained 1933; Prof. of Phil., Gregorian Univ. 1938-45, Prof. Theol. 1945-50; Rector, Pontificio Colegio Pio-Latino-Americano 1955-57; Rector, Pontifical Gregorian Univ., Rome 1957-64; Titular Bishop of Ceramo 1964-67; Archbishop of Quito 1967-; cr. Cardinal 1969; mem. Sacred Congregation of Catholic Educ.; mem. Sacred Congregation of Religious Life. *Publications:* Introducción a la síntesis de San Agustín 1945, Causalidad filosífica y determinismo científico 1946, El estudio del hombre como introduccíon al problema de lo sobrenatural 1948, Los Problemas de la experiencia mística ■ la luz del pensamiento agustiniano en Augustinus Magister 1954, Fe ■ inteligencia en los origines de la ciencia moderna 1965. *Address:* Palacio Arzobispal, Apartado 106, Quito, Ecuador. *Telephone:* 210-703.

MUNRO, Dana G.; American diplomatist and historian; b. 18 July 1892, Providence, R.I.; s. of Dana Carlton and Alice (Beecher) Munro; m. Margaret Bennett Wiley 1920; three c.; ed. Wisconsin, Pennsylvania and Brown Univs.; Regional Economist Dept. of State 1919-20; Economist Consul at Valparaiso 1920-21; mem. Latin-American Div. of State Dept. 1921-25; 1st Sec. Panama 1925-27 and Nicaragua 1927-29; Chief Latin-American Affairs Div. of State Dept. 1929-30; Minister to Haiti 1930-32; Prof. of Latin-American History and Affairs Princeton Univ. 1932-61; Vice-Pres. Foreign Bondholders' Protective Council New York 1938-58, Pres. 1958-67, Chair. Exec. Cttee. 1967-69; Dir. Woodrow Wilson School of Public and Int. Affairs, Princeton Univ. 1939-58; mem. Nat. Advisory Cttee. on Inter-American Affairs 1959-61. *Publications:* The Five Republics of Central America 1918, The United States and the Caribbean Area 1934, The Latin American Republics: A History 1942, Intervention and Dollar Diplomacy in The Caribbean 1900-21 1964, The United States and the Caribbean Republics 1921-33 1974. *Leisure interests:* sailing, gardening. *Address:* 345 Harrison Street, Princeton, N.J. 08540, U.S.A. *Telephone:* 609-924-1238.

MUNRO, Hon. John Carr; Canadian lawyer and politician; b. 16 March 1931; Hamilton, Ont; s. of John Anderson Munro, Q.C. and Katherine Alexander Carr; m. Marguerite Harriet Clay 1956; two d.; ed. Cen. Public School, Westdale Composite School, Univ. of Western Ontario, and Osgoode Hall Law School, Toronto; mem. Hamilton City Council 1955; Liberal mem. for Hamilton, East; Parl. Sec. to Minister of Citizenship and Immigration 1963, later Parl. Sec. to Ministers of Nat. Health and Welfare, Trade and Commerce, and Manpower and Immigration; Minister without Portfolio April-June 1968; Minister of Nat. Health and Welfare 1968-72, of Labour 1972-78; mem. Canadian Inst. of Int. Affairs. *Address:* c/o Department of Labour, 340 Laurier West, Ottawa, Ont., Canada. *Telephone:* 613-996-6451.

MUNS ALBUIXECH, Joaquín, PH.D.; Spanish university professor and international civil servant; b. 25 June 1935, Barcelona; m. Gloria Rubiol 1967; one s.; ed. Univ. of Barcelona and London School of Econs; Economist, Nat. Studies Div. of OECD 1962-63; Asst. Prof. of Econs. Univ. of Barcelona 1963-65; Economist, Western Hemisphere Dept. of IMF 1965-68; Econ. Adviser to Barcelona City Council 1968-73; Prof. of Econs. Univ. of Barcelona 1968-73, and Senior Prof. of Int. Econ. Org. 1973-78; Econ. Adviser to Govt. of Spain and to various public and private insts. 1973-78; Exec. Dir. Int. Monetary fund 1978-. *Publications:* (in Spanish): Industrialization and Growth in the Developing Countries 1972, The European Option for the Spanish Economy 1973, The International Economic Crisis: Thoughts and Proposals 1975, Crisis and Reform of the International Monetary System 1978, over 30 essays and articles, with special reference to problems of the int. econ. orgs. *Address:* International Monetary Fund, 700-19th Street, N.W., Washington, D.C. 20431, U.S.A.

MURAKAMI, Isamu; Japanese politician; mem. House of Reps. (twelve times) for Oita Pref.; Minister of Posts and Telecommunications 1955, of Construction 1959, of Posts and Telecommunications 1974-76; Liberal Democratic Party. *Address:* c/o Ministry of Posts and Telecommunications, Tokyo, Japan.

MURALT, Leonhard von; Swiss historian; b. 17 May 1900; ed. Univs. of Geneva and Zürich; Lecturer in History, Univ. of Zürich 1930-40; Ordinary Prof. for Modern Gen. and Swiss History, Univ. of Zürich 1940-72; Hon. Dr. Theol. (Univ. of Berne). *Publications:* Die Badener Disputation 1526 1926, Reformation und Gegenreformation (in Geschichte der Schweiz) 1932, Huldrych Zwingli, Von göttlicher und menschlicher Gerechtigkeit 1934, Das Zeitalter der Renaissance (in Die Neue Propyläen-Weltgeschichte) 1941, Machiavellis Staatsgedanke 1945, Der Friede von Versailles und die Gegenwart (trans. into English as From Versailles to Potsdam 1948) 1947, Bismarcks Reichsgründung 1947, Zürich im Schweizerbund 1951, Quellen zur Geschichte der Täufer in der Schweiz I: Zürich 1952, Bismarcks Verantwortlichkeit 1955, Die Reformation (in Historia Mundi VII) 1957, Der Historiker und die Geschichte, Ausgewählte Aufsätze und Vorträge 1960, Editor Huldreich Zwinglis Sämtliche Werke (Corpus Reformatorum) VI (I) 1961, VI (II) 1964-68, Renaissance und Reformation (in Handbuch der Schweizergeschichte) 1969, Die diplomatisch-politische Vorgeschichte 1970. *Address:* Wybüelstrasse 20, Zollikon bei Zürich, Switzerland. *Telephone:* 051-658761.

MURAMAYA, Nagataka; Japanese newspaper proprietor; b. 1894; ed. Kyoto Imperial Univ.; Dir. Asahi Shimbun 1920-; Man. Dir. Asahi Welfare and Cultural Assn. 1952; Chair. of Bd. Asahi Evening News 1953-; Dir. Asahi Broadcasting Corpn., Osaka 1955;

Pres. Japan Newspaper Publrs. and Editors Assen. 1955; Vice-Pres. Fed. Int. des Editeurs de Journaux et Publications 1958-; Pres. Asahi Shimbun 1960-64; numerous decorations. *Address:* 16, 1-chome, Ichibeicho, Azabu, Minato-ku, Tokyo, Japan.

MURAMOTA, Shuzo; Japanese banker; b. 8 Feb. 1915, Hiroshima Pref.; s. of Aishi-ichiro Muramoto and Waka Muramoto; m. Fumiko Watanabe 1943; ed. Tokyo Imperial Univ.; joined Dai-Ichi Bank, Ltd. 1937, Dir. 1965, Man. Dir. 1969, Sr. Man. Dir. 1969, Deputy Pres. 1970; Deputy Pres. Dai-Ichi Kangyo Bank Ltd., formed by merger with Nippon Kangyo Bank, Ltd.; Pres. Dai-Ichi Kangyo Bank Ltd. Dec. 1976-; Dir. Nippon Light Metal Co. Ltd. May 1973-. *Leisure interests:* golf, reading, photography. *Address:* 510, 14-6, Komagome 4-chome, Toshima-ku, Tokyo 170, Japan. *Telephone:* 03-918-1007.

MURANO, Tatsuo, B.A.; Japanese banker; b. 18 May 1907, Gase City, Nara Pref.; m. Wakako 1936; one s. two d.; ed. Faculty of Econs., Tokyo Univ.; joined Yamaguchi Bank 1932, Dir. 1957, Man. Dir. 1959, Sr. Man. Dir. 1961, Deputy Pres. 1964; Pres. Sanwa Bank Ltd. 1971-76; fmr. Vice-Chair. Fed. of Bankers' Asscns. of Japan. *Leisure interests:* music, photography.

MURAOKA, Sadakatsu, B.ENG.; Japanese business executive; b. 2 Jan. 1910, Kyoto; s. of Yukichi and Masu Muraoka; m. Fuji Hirose 1937; two s. one d.; ed. Kyoto Imperial Univ.; Dir. Nippon Mining Co. Ltd. 1960, Sr. Man. Dir. 1969, Exec. Vice-Pres., Gen. Man. Research and Devt. Div., Corporate Co-ordination and Control Div., Environmental Measures Promotion Centre 1971-; Dir. Koyo Iron Works and Construction Co. Ltd. 1965-, Nissho Shipping Co. Ltd. 1967-; Pres. Bio Research Center Co. Ltd. 1972-; Chair. Orient Catalyst Co. Ltd. 1973-, Toho Titanium Co. Ltd. 1973-; Medal with Blue Ribbon 1970. *Leisure interest:* golf. *Address:* Nippon Mining Co. Ltd., 3 Akasaka Aoi cho, Maitno-ku, Tokyo (Office); 1163-2, Ichigao-cho, Midori-ku, Yokohama, Kanagawa Prefecture, Japan (Home). *Telephone:* 03-582-2111 (Office); 045-971-2469 (Home).

MURATA, Masachika; Japanese architect; b. 6 Sept. 1906, Yokkaichi Mie Pref.; s. of Masaichi and Hisa Murata; m. Yuri Kagitomi 1935; two s.; ed. Tokyo Acad. of Fine Arts; Designer, Shinichiro Okada Architect Office, Tokyo 1929-30, Bldg. Dept. of Ministry of Imperial Household, Tokyo 1931-36; Researcher of facilities of Museums of Europe and America at request of Ministry of Educ. 1937-39; Architect, Kameki Tuchiura Architect Office 1940-46; Vice-Chief of Architectural Div., Conf. of Devt. of Kainantow (Hainan Island, China) 1943; Pres. Masachika Murata Architect Office 1946-; Dir. Bd., Japan Architects Assen. 1954-; Dir. Sports and Recreation Facilities, Union of Int. Architects 1959-; Award of Ministry of Construction 1970; Nat. Medal for Merit 1973. *Works include:* Yokohama offices of Yokohama Trading Building Co. Ltd. (Kanagawa Pref. Architectural Prize) 1951; Tokyo Metropolitan Indoor Pool 1957; Exhbn. Halls of Tokyo Int. Trading Center 1959; Miyazaki Kanko Hotel, Miyazaki Pref. 1961; Ochiai Sewage Treatment Plant, Tokyo, 1961; Tokyo Olympic Komazawa Stadium (Special Prize of Architectural Inst. of Japan and Building Contractors' Soc. of Japan) 1962; Morigasaki Sewage Treatment Plant, Tokyo, 1962; Italian Embassy, Tokyo 1963; Kyodo News Service Building, Tokyo 1964; Y.M.C.A. Int. Youth Center, Shizuoka Pref. 1964; Hotel Matsukura, Nagasaki Pref. 1964; Hotel Hodaka, Nagano Pref. 1964; Residence of Consul Gen. of S. Africa, Tokyo 1965; Educ. Center I.B.M. Japan 1966; Police HQ, Aichi Pref. 1968; Mt. Tateyama Int. Hotel and Bus Terminal, Toyama Pref. 1968; Dentsu Advertising Office, Kyoto 1969; Netherlands Pavilion, Expo 1970; Matsuzakaya Dept. Store, Shizuoka 1970, new Exhbn. Hall of Tokyo Int. Trading Centre 1971; Yamagata Civic Centre 1971; Itabashi Cent. Library, Tokyo 1971; Yotsuya Civic Centre, Tokyo 1972; Ryoyu Club, Tokyo 1972; Yokkaichi Cen. Library Architectural Prize of Middle Part of Japan 1972; Tamagawa Sewage Treatment Plant, Tokyo 1973; Recreational facilities for Shinjuku-ku people, Hakone Nat. Park 1974; Nagano Municipal Stadium 1975; Shinjuku-ku Public Hall, Tokyo 1976; Dentsu Advertising Headquarters Office, Tokyo 1977; Club House of the Nippon Bank, Tokyo 1977. *Leisure interests:* golf, skiing, painting. *Address:* Jingugaien Building, 2-7-25 Kita Aoyama, Minato-ku, Tokyo 107 (Office); 2-14-4 Moto-Azabu, Minato-ku, Tokyo 106, Japan (Home). *Telephone:* 403-1451 (Office); 451-1672 (Home).

MURAYAMA, Tatsuo; Japanese politician; served in Finance Ministry; Chief, Accounts Bureau, Liberal Dem. Party; mem. House of Reps. for Niigata Prefecture; Minister of Finance 1978-79. *Address:* c/o Ministry of Finance 1-1, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, Japan.

MURDOCH, (Jean) Iris, C.B.E.; British writer and philosopher; b. 15 July 1919; m. John O. Bayley; ed. Froebel Educational Inst. (London), Badminton School (Bristol) and Somerville Coll., Oxford; worked at the Treasury 1942-44, with UNRRA 1944-46; Phil. Studentship Newnham Coll., Cambridge 1947-48; Fellow, St. Anne's Coll., Oxford 1948-63, Hon. Fellow 1963-; mem. Irish Acad. of Letters; Hon. mem. American Acad. of Arts and Letters 1975, Nat. Inst. of Arts and Letters 1975; James Tait Black Prize for Fiction (for The Black Prince) 1974, Whitbread Literary Award for Fiction (for The Sacred and Profane Love Machine) 1974, Booker Prize for Fiction (for The Sea, the Sea) 1978. *Publications:* Sartre: Romantic Rationalist 1953, Under the Net 1954, The Flight from the Enchanter 1955, The Sandcastle 1957, The Bell 1958, A Severed Head 1961 (play 1963), An Unofficial Rose 1962, The Unicorn 1963, The Italian Girl 1964 (play 1967), The Red and the Green 1965, The Time of the Angels 1966, The Nice and the Good 1968, Bruno's Dream 1969, A Fairly Honourable Defeat 1970, The Sovereignty of Good 1970, The Servants and the Snow (play) 1970, An Accidental Man 1971, The Three Arrows (play) 1972, The Black Prince 1973, The Sacred and Profane Love Machine 1974, A Word Child 1975, Henry and Cato 1976, The Sea, the Sea 1978, The Fire and the Sun 1978. *Address:* Cedar Lodge, Steeple Aston, Oxfordshire, England.

MURDOCH, (Keith) Rupert; Australian newspaper publisher; b. 11 March 1931, Melbourne, Victoria; s. of the late Sir Keith Murdoch and of Dame Elisabeth Murdoch; m. Anna Maria Torv 1967; two s. two d.; ed. Geelong Grammar School, Victoria, and Worcester Coll., Oxford; Chief Exec. and Man. Dir. News Ltd. Group and Assoc. cos. (Group includes Mirror Newspapers Ltd., Nationwide News Pty. Ltd., Daily Mirror, The Australian, Daily Telegraph, Sunday Telegraph, Sunday (Sydney), Sunday Sun (Brisbane), The News and Sunday Mail (Adelaide), The Sunday Times (Perth), Southern TV Corpn. Ltd., Southdown Press Ltd., Cumberland Newspapers Ltd.); Chair. News America Publishing Inc., U.S.A., City Post Publishing Corpn., U.S.A., News Int. Group Ltd., U.K. *Address:* 210 South Street, New York, N.Y. 10002, U.S.A.

MURDOCK, George Peter, PH.D.; American anthropologist; b. 11 May 1897, Meriden, Conn.; s. of George Bronson and Harriet (Graves) Murdock; m. Carmen Swanson 1925; one s. ed. Yale Univ.; Instructor in Sociology, Univ. of Md. 1925-27; Asst. Prof., Assoc. Prof., Prof., Yale Univ. 1928-60; Mellon Prof. of Anthropology, Univ. of Pittsburgh 1960-73, Emer. Prof. 1973-; Chair. Div. of Behavioural Sciences, Nat. Research Council 1964-66; mem. Nat. Acad. of Sciences; Pres. American Anthropological Assen. 1955, American Ethnological Soc. 1952-53; Viking Fund Medal 1949, Herbert E. Gregory Medal, Tokyo 1966, Huxley Medal London 1971. *Publications:* Our Primitive Contemporaries 1934, Social Structure 1949, Africa 1959. *Leisure interest:* tennis. *Address:* Wynnewood Plaza, Apt. 107, Wynnewood, Pa. 19096, U.S.A. *Telephone:* M19-6273.

MURENA, H. A.; Argentine writer; b. 14 Feb. 1923, Buenos Aires; Lecturer in Phil., Univ. de Buenos Aires 1968-. *Publications:* Primer testamento (story) 1946, La vida nueva (poetry) 1951, El juez (play) 1953, El pecado original de América (essay) 1954, La fatalidad de los cuerpos (novel) 1955, El centro del infierno (short stories) 1956, El círculo de los paraísos (poetry) 1958, Las leyes de la noche (novel) 1958, El escándalo y el fuego 1959, Homo atomicus 1961, Relámpago de la duración 1962, Ensayos sobre subversión 1962, El demonio de la armonía 1964, Los herederos de la promesa 1965, El nombre secreto (essays) 1969, Epitalámica (novel) 1969, Nímas Nímenos (novel) 1969, La cárcel de la mente (essays) 1970, El coronel de caballería (short stories) 1970, Caina muerte (novel) 1971, F.G. un bárbaro entre la belleza (poetry) 1972. *Address:* San José 910, Buenos Aires, Argentina.

MURGULESCU, Ilie, D.SC.; Romanian chemist and politician; b. 27 Jan. 1902, Cornu, Dolj County; s. of G. D. and Floarea Murgulescu; m. Elena Salageanu 1934; ed. Charles 1 High School, Craiova, and Univs. of Cluj and Leipzig; Dir. of Studies and Prof. of Analytical and Physical Chem., Timişoara Polytechnical Inst. 1934-49; Prof. of Physical Chem., Univ. of Bucharest 1949-72, Consulting Prof. 1972-; mem. Grand Nat. Ass. 1948-75, Vice-Pres. 1967-75; Deputy Minister of Educ. 1950-51, Minister 1951-56, 1960-63; mem. Romanian Acad. of Sciences 1948-, Pres. 1963-66; Dir. Centre of Physical Chem. 1963-; Vice-Pres. Romanian Council of State 1965-67; Foreign mem. U.S.S.R. Acad. of Sciences, Czechoslovak, Hungarian and Bulgarian Acads. of Sciences; Laureate, State Prize of Romania 1964; Gold Medal of 39th Int. Congress of Ind. Chem. 1970; Hero of Socialist Labour 1971. *Publications:* Introduction to Physical Chemistry, Vol. I 1.: Atoms; Molecules; Chemical Bond; Vol. I 2.: Structure and Properties of Molecules; over 200 papers in analytical and physical chemistry in Romanian and foreign scientific journals. *Leisure interest:* philosophy. *Address:* Şoseaua Kiseleff 22, Bucharest, Romania. *Telephone:* 180476.

MURPHY, Charles S.; American government official; b. 20 Aug. 1909, Wallace, N.C.; s. of William F. and Kate W. Murphy; m. Kate C. Graham 1931; one s. two d.; ed. Duke Univ., Durham, North Carolina; admitted to N. Carolina Bar 1934; Office of Legis. Counsel, U.S. Senate 1934-46; Admin. Asst. to Pres. of U.S. 1947-50, Special Counsel 1950-53; Partner, Morison, Murphy, Clapp and Abrams 1953-61; Counsel to Dem. Nat. Advisory Council 1957-60; Under-Sec. Dept. of Agric. 1960-65; Chair. Civil Aeronautics Bd. 1965-68; Counsellor to Pres. of U.S. 1968-69; Partner Morison, Murphy, Abrams and Haddock 1969-; mem. Bd. of Dirs., Harry S. Truman Library 1968-; Trustee, Duke Univ. 1970-; Chair. Bd. of Visitors Duke Univ. Law School 1973-; Pres. Harry S. Truman Library 1977-. *Leisure interest:* boating. *Address:* 1776 K Street, N.W., Washington, D.C. 20006, U.S.A. *Telephone:* 202-293-6260.

MURPHY, Franklin David, M.D.; American educator and publisher; b. 29 Jan. 1916, Kansas City, Mo.; s. of Franklin E. Murphy and Cordelia Brown Murphy; m. Judith Harris Murphy 1940; one s. three d.; ed. Univs. of Kansas and Göttingen and Univ. of Pennsylvania School of Medicine; Dean of School of Medicine and Assoc. Prof. of Internal Medicine, Univ. of Kansas 1948-51; Chancellor, Univ. of Kansas 1951-60; Chancellor, Univ. of Calif. at Los Angeles 1960-68; Chair. Times Mirror Co. 1968-; Dir. Ford Motor Co., BankAmerica Corpn., Hallmark Cards, Pres. Kress Foundation; Hon. LL.D., Hon. L.H.D., Hon. D.Sc. *Publications:* in field of chemotherapy, cardiovascular diseases, medical education and general education. *Address:* Times-Mirror Co., Times Mirror Square, Los Angeles, Calif. 90053 (Office); 419 Robert Lane, Beverly Hills, Calif. 90210, U.S.A. (Home).

MURPHY, George Arthur; American banker; b. 13 Dec. 1905; ed. Oglethorpe Univ., New York Univ. and Harvard Univ.; joined Irving Trust Co., New York 1931, Vice-Pres. (Personal Trust Div.) 1947-53, Sr. Vice-Pres. (Loan Admin. Div.) and Sr. Loaning Officer 1954-57, Pres. 1957-60, Chair. 1960-70, Dir. 1956-; Chair. Charter New York Corpn. 1966-70, Dir. 1966-, Chair. Exec. Cttee. 1971-. *Address:* 1 Wall Street, New York, N.Y. 10005 (Office); Washington, Conn. 06793, U.S.A. (Home).

MURPHY, George Lloyd; American actor and politician; b. 4 July 1902, New Haven, Conn.; s. of Mike Murphy and Nora Long; m. Juliette Henkel 1926; one s. one d.; ed. Peddie Inst., Highstown, N.J., Pawling School, New York, and Yale Univ.; fmr. actor and dancer; appeared on New York stage 1926-34; films include Kid Millions 1934, Little Miss Broadway 1938, Broadway Melody of 1940, Little Nellie Kelly 1940, Tom Dick and Harry 1941, For Me and My Gal 1941, The Navy Comes Through 1942, Bataan 1943, This is the Army 1943, Broadway Rhythm 1944, Show Business 1944, Step Lively 1944, Battleground 1949, Walk East on Beacon 1952; special. Acad. Award (Oscar) 1950; fmr. Pres. Screen Actors' Guild; Dir. of Public Relations for MGM; Vice-Pres. for Public Affairs, Desilu Productions Inc. 1958-; Vice-Pres. Technicolor Corpn.; Chair. Republican State Cen. Cttee. of Calif. 1953; Senator from California 1965-71; Republican. *Address:* 807 North Rodeo Drive, Beverly Hills, Calif. 90210, U.S.A.

MURPHY, Sir Leslie Frederick, Kt., B.SC.; British business executive; b. 17 Nov. 1915, Southall, Middx.; s. of Frederick Charles and Lillian Annie (Bradshaw) Murphy; m. Marjorie Iris Cowell 1940; one s. one d.; ed. Southall Grammar School and Birkbeck Coll., London; Civil Service 1934-52, incl. Principal Private Sec. to the late Hugh Gaitskell (then Minister of Fuel and Power) and Asst. Sec. in Petroleum Div. of Ministry; Mobil Oil Co. Inc. 1952-59, Chair. Mobil Supply and Mobil Shipping 1955; Exec. Dir. (Finance and Commercial Divs.) Iraqi Petroleum Co. Group 1959-64; Dir. J. Henry Schroder Wagg & Co. Ltd. 1964-75, Deputy Chair. 1972-73; Dir. Schroders Ltd. 1970-75, Deputy Chair. 1973-75; Consultant on Middle East affairs, Schroder Group 1975-; Dir. Unigate Ltd. 1968-75; Deputy Chair. Nat. Enterprise Board (NEB) 1975-77, Chair. NEB Aug. 1977-; Fellow British Inst. of Man. *Leisure interests:* music, golf. *Address:* National Enterprise Board, 12-18 Grosvenor Gardens, London, S.W.1, England (Office). *Telephone:* 01-730 9600.

MURPHY, Lionel Keith, LL.B., B.SC.; Australian politician and judge; b. 31 Aug. 1922, Sydney; s. of William and Lily Murphy (née Murphy); m. Ingrid Gee 1969; two s. one d. by previous marriage; ed. Sydney High School and Univ. of Sydney; admitted to N.S.W. Bar 1947, Victoria 1958; Q.C., N.S.W. 1960-, Victoria 1961-; mem. Senate 1962-75, Leader of Opposition in Senate 1967-72; Attorney-Gen., Minister of State for Customs and Excise and Leader of Govt. in Senate 1972-75; Judge, Australian High Court 1975-; mem. Exec. Int. Comm. of Jurists Australian Section 1963-; del. to UN Conf. on Human Rights, Teheran 1968; Australia rep. in Nuclear Tests Case, Int. Court of Justice 1973-74; mem. Exec. Council of Australian Nat. Univ. 1970-72. *Leisure interests:* water skiing, literature. *Address:* High Court of Australia, Taylor Square, Darlinghurst, N.S.W. 2010, Australia (Office). *Telephone:* 31 5720 (Sydney).

MURPHY, Thomas A.; American motor executive; b. 10 Dec. 1915, Hornell, N.Y.; ed. Leo High School, Chicago and Univ. of Illinois; joined Gen. Motors Corpn. 1938, Asst. Treas. 1959, Comptroller 1967, Treas. 1968-70, Vice-Pres. 1970-72, Vice-Chair. 1972-74, Chair. and Chief Exec. Officer 1974-. *Address:* General Motors Corporation, General Motors Building, Detroit, Mich. 48202, U.S.A.

MURPHY, William Beverly, B.S.; American business executive; b. 17 June 1907, Appleton, Wis.; s. of S. W. and Hilma (née Anderson) Murphy; m. Helen Brennan 1930; three s.; one d.; ed. Univ. of Wisconsin; Exec. Vice-Pres. A. C. Nielsen Co. 1928-38; Campbell Soup Co. 1938-42; War Production Bd., Washington 1942-45; rejoined Campbell Soup Co. 1945, Dir. 1949-, Pres. 1953-72; Dir. Merck & Co. Inc. 1958; Chair. Radio Free Europe 1960-61, Dir. American Telephone and Telegraph Co. 1961-78; Chair. the Nutrition Foundation 1964-65, Business Council 1965-66; Dir. Int. Paper Co. 1969-; Chair. Business Roundtable 1972-73; Life mem. and Trustee, Wisconsin Alumni Research Foundation; Life mem. M.I.T.; Trustee, Phila. Museum of Art. *Address:* 110 Maple Hill Road, Gladwyne, Pa., U.S.A.

MURPHY, William Parry, M.D.; American physician; b. 6 Feb. 1892; ed. Univ. of Oregon and Harvard Univ. Medical School; Intern, Rhode Island Hosp., Providence 1920-22; Private practice, Brooklyn 1923-; Asst. Resident Physician Peter Bent Brigham Hosp., Boston 1922-23; Jr. Assoc. in Medicine 1923-28, Assoc. in Medicine 1928-35, Sr. Assoc. in Medicine and Consultant in Haematology 1935-58, Emer. 1958-; Asst. in Medicine Harvard Univ. Medical School 1923-28, Instructor 1928-35, Assoc. in Medicine 1935-48; Lecturer on Medicine 1948-58, Emer. 1958-; discoverer (with Dr. George R. Minot) of liver treatment for pernicious anaemia; mem. Bd., Cordis Corpn.; mem. Kaiserl. Leopold. Carolin. Deutsche Akad. der Naturforscher, American Soc. for Clinical Investigation, Assen. of American Physicians, Soc. of Arts and Sciences, A.A.A.S., Fellow American Medical Assen., Nat. Inst. of Social Sciences, Robert Kennedy Duncan Soc. of Mellon Inst.; Hon. mem. Soc. of Finnish Physicians for Internal Diseases, Int. Soc. for Research on Civilisation Diseases and Vital Substances 1969, New York Acad. of Sciences, Univ. of Oregon Medical Alumni Assen. 1964; awarded Cameron Prize of Edinburgh Univ. 1930, bronze medal American Medical Assen. 1934, Nobel Prize in Physiology and Medicine 1934, Gold Medal Mass. Humare Soc., Dip. in Internal Medicine 1937; Hon. D.Sc. (Gustavus Adolphus Coll.); Commdr., Order of White Rose (Finland), Nat. Order of Merit, Carlos J. Finlay (Cuba); Distinguished Achievement Award, Boston 1965, Int. Bicentennial Symposium Award; 50-year Service Award Peter Brent Bingham Hosp. 1975. *Publication:* Anæmia in Practice: Pernicious Anæmia 1939. *Address:* 97 Sewall Avenue, Brookline 46, Mass., U.S.A.

MURRAY, Dame A. Rosemary, D.B.E., D.PHIL., J.P.; British chemist and university administrator; b. 28 July 1913, Havant; d. of late Admiral A. J. L. Murray and Ellen Maxwell Spooner; ed. Downe House School, Newbury, and Lady Margaret Hall, Oxford; Lecturer in Chem., Royal Holloway Coll. 1938-41, Univ. of Sheffield 1941-42; W.R.N.S. 1942-46; Fellow and Tutor, Girton Coll., Cambridge 1946-54; Pres. New Hall, Cambridge 1954-; Univ. Demonstrator in Chem. 1947-52, Vice-Chancellor Cambridge Univ. 1975-77; Magistrate, City Cambridge 1953-; Pres. Nat. Inst. of Adult Educ. 1977-; Dir. Midland Bank; Chair., mem. cttees. and councils in univs., colls. of educ., schools, Wages Councils, Armed Forces Pay Review Body and others; Hon. D.Sc. (Ulster) 1972, (Leeds) 1975, (Pa.) 1975, (Wellesley, S. Calif.) 1976; Hon. D.C.L. (Oxford) 1976; Hon. LL.D. (Sheffield) 1977; D.B.E. 1978. *Leisure interests:* sailing, gardening, bookbinding and restoring. *Address:* New Hall, Cambridge, CB3 0DF, England. *Telephone:* 0223-51721.

MURRAY, Charles Henry, B.COMM.; Irish banker; b. 1917, Dublin; m.; one s. four d.; ed. Christian Bros. School, Dublin; entered Civil Service 1934; Asst. Sec., Dept. of Finance 1961, Sec. 1969-76; Dir. Central Bank of Ireland 1969-76, Gov. 1976-; Chair. Cttee. of Govs. of EEC Central Banks 1977/78; mem. Nat. Econ. and Social Council, Council and Exec. Cttee. of the Econ. and Social Research Inst.; Hon. LL.D.; Kt. Officer, Order of Merit (Italy). *Leisure interests:* theatre, golf. *Address:* Central Bank of Ireland, Fitzwilton House, Wilton Terrace, Dublin 2, Ireland.

MURRAY, Sir (Francis) Ralph (Hay), K.C.M.G., C.B.; British diplomatist and businessman; b. 3 March 1908; ed. Brentwood School and St. Edmund Hall, Oxford; BBC 1934-39; Foreign Officer 1939-45; Allied Comm. for Austria 1945-46; Special Commr.'s Staff, S.E. Asia 1946-47; Foreign Office 1947-51; Counsellor, Madrid 1951-

54; Minister, Cairo 1954-56; Asst. Under-Sec. of State Foreign Office 1957-61; Deputy Under-Sec. of State, Foreign Office 1961-62; Amb. to Greece 1962-67; Gov. of BBC 1967-73; Chair. McAlpine Sea Tank Ltd., Sea Tank (U.K.) Ltd., CSM Parl. Consultants 1974-, SAFT (U.K.) Ltd. *Address:* The Old Rectory, Stoke Hammond, Bletchley, Bucks., England.

MURRAY, Rt. Hon. Lionel (Len), P.C., O.B.E.; British trade unionist; b. 2 Aug. 1922; m. Heather Woolf 1945; two s. two d.; ed. Wellington Grammar School, Univ. of London, New Coll., Oxford; with Econ. Dept., TUC 1947, Head of Dept. 1954-69; Asst. Gen. Sec. TUC 1969-73, Gen. Sec. 1973-; mem. Social Science Research Council 1965-70, NEDC 1973-; Vice-Pres. European Trade Union Confed. 1974, Int. Confed. Free Trade Unions 1974; mem. Cttee. to review functioning of Financial Insts. 1977-; Bd. of Trustees, Anglo-German Foundation for the Study of Industrial Soc. 1977-; Gov. Nat. Inst. of Econ. and Social Research 1968, of L.S.E. 1970; Visiting Fellow, Nuffield Coll., Oxford 1974; Hon. D.Sc. (Aston) 1977, (Salford) 1978. *Address:* Trades Union Congress, 23-28 Great Russell Street, London, W.C.1, England.

MURRAY OF NEWHAVEN, Baron (Life Peer) cr. 1964, of Newhaven; **Keith (Anderson Hope) Murray,** K.C.B., PH.D.; British university administrator; b. 28 July 1903, Edinburgh; s. of Rt. Hon. Lord Murray, C.M.G., K.C., LL.D.; ed. Edinburgh Acad., Edinburgh Univ., Cornell Univ., New York and Oxford Univ. Ministry of Agric. 1925-26; Commonwealth Fund Fellow 1926-29; Agricultural Econs. Research Inst., Oxford 1929-32, Research Officer 1932-39; Ministry of Food 1939-40; R.A.F.V.R. 1941-42; Dir. of Food and Agric., Middle East Supply Centre 1942-45; Fellow and Bursar, Lincoln Coll., Oxford 1937-53, Rector 1944-53; Chair. Univ. Grants Cttee. 1953-63; Chancellor, Southampton Univ. 1964-74; Visitor, Loughborough Tech. Univ. 1968-78; Dir. Leverhulme Trust 1965-72; Trustee, Wellcome Trust 1965-73; Hon. Fellow, Oriel and Lincoln Colls., Oxford, Downing Coll., Cambridge, Birkbeck Coll., London; Hon. LL.D., Hon. D.C.L., Hon. D.Litt., Hon. D.U. *Address:* 224 Ashley Gardens, London, SW1P 1PA, England. *Telephone:* 01-828 4113.

MURUMBI, Joseph A.; Kenyan politician; b. 18 June 1911; s. of Peter Nicholas Zuzarte and Njambiak Ole Murumbi; m. 1966; one s.; ed. Bangalore and Bellary, S. India; Staff of Admin. of Somalia 1941-51; Asst. Sec. Movement for Colonial Freedom 1951-57; Press and Tourist Officer, Moroccan Embassy, London 1957-62; Treas. Kenyan African Nat. Union (KANU) 1962; mem. Kenya House of Reps. 1963-; Minister of State in Prime Minister's Office 1963-64; Minister of External Affairs 1964-66; Vice-Pres. of Kenya May-Dec. 1966; fmr Chair. Rothmans of Pall Mall (Kenya) Ltd. and several Kenya cos. *Leisure interests:* gardening, and collecting stamps, art and Africana. *Address:* P.O. Box 41730, Nairobi (Office); Intona Farm, P.O. Kilgotis via Kisii; 72 Muthaiga Road, Nairobi, Kenya (Homes). *Telephone:* Nairobi 65096 (Home).

MUSAFIR, Giani Gurmukh Singh; Indian writer and politician; b. 15 Jan. 1899, Udhwal, Pakistan; s. of Sujan Singh and Mathra Devi; m. Ranjut Kaur 1912; five s. one d.; ed. Rawalpindi and Training Coll., Lahore; joined Congress 1923; mem. All-India Congress Cttee. 1930-; mem. Constituent Ass. 1947-52; M.P. 1952-66; mem. Exec. Congress Party in Parl. 1952-66; mem. Working Cttee. of All-India Congress Cttee. 1952-57; Pres. Punjab Pradesh Congress Cttee. 1947-59; Chief Minister of Punjab 1966-67; mem. Legis. Council, Punjab 1966-; mem. Rajya Sabha 1968-; Chair. Jallianwala Bag Memorial Trust Man. Cttee.; took active part in Akali movement; Gen. Sec. Shri Gurudwara Prabandhak Cttee. and Shiromani Akali Dal; Leader and Del. to numerous int. confs. *Publications:* Short Stories: Vakhri Duniya, Sasta Tamasha, Alne de Bot, Kandhan Bol Pahiyan, 27 January, Sab Achha, Gutar, Allah Wale, Urwar Par; Poetry: Sabar de Ban, Prem Ban, Jivan Pandh, Toote Khamb, Musafirian, Kav Saneh, Sahaj Seti, Vakhra Vakhra, Katra Katra; General: Gandhi Gita, Anand Marg, Bagi Jernel, Vinvi Sadi de Shahid, Vekhia Suniya Gandhi, Vekhia Suniya Jawaharlal. *Leisure interests:* travelling, writing. *Address:* 21 Feroze Shah Road, New Delhi, India. *Telephone:* 387591.

MUSGRAVE, Sir Cyril, K.C.B.; British administrator (retd.); b. 21 June 1900, Ealing Middx.; s. of Frank Musgrave and Edith Clarkson; m. 2nd Jean Soulsby 1945; two s. (also one s. one d. by 1st marriage); ed. St. George's Coll., London; with Inland Revenue 1920-37, Air Ministry 1937-40, Ministry of Aircraft Production 1940-46; Under-Sec. (Air), Ministry of Supply 1946-51, Deputy Sec. 1951-53, Second Perm. Sec. 1953-56, Perm. Sec. 1956-59; Chair. Iron and Steel Bd. 1959-67; Dir. various cos. 1961-76; mem. Organizing Cttee. for Steel Nationalization 1966-67, part-time mem. British Steel Corpn. 1967-70 (retd.). *Leisure interests:* gardening, the gramophone. *Address:* Black Horse Cottage, Towersey, Thame, Oxon., OX9 3QR, England. *Telephone:* (084 421) 3269.

MUSGRAVE, Thea, MUS.DOC.; British composer; b. Edinburgh; d. of James and Joan Musgrave; m. Peter Mark 1971; ed. Edinburgh Univ. and Paris Conservatoire (under Nadia Boulanger); Lecturer, Extra-Mural Dept., London Univ. 1958-65; Visiting Prof. Univ. of Calif., Santa Barbara 1970; Koussevitzky Award 1972; Guggenheim Fellow 1974-75. *Works include:* Chamber Concerto for 2 & 3 1966, Concerto for Orchestra 1967, Clarinet Concerto 1968, Beauty and the Beast (ballet) 1969, Night Music 1969, Horn Concerto 1971, The Voice of Ariadne (chamber opera) 1972-73, Viola Concerto 1973, Space Play 1974, Mary, Queen of Scots (Opera) 1976-77; chamber music, songs, choral music, orchestral music. *Leisure interests:* cooking, cinema, reading. *Address:* c/o Novello and Co. Ltd., 1-3 Upper James Street, London, W1R 4BR, England. *Telephone:* 01-734 8080.

MUSKIE, Edmund Sixtus, A.B., LL.B.; American lawyer and politician; b. 28 March 1914, Rumford, Main; m. Jane Gray 1948; two s. three d.; ed. Bates Coll., Maine and Cornell Law School, Ithaca, New York; admitted to Mass. Bar 1939, Main Bar 1940, Federal District Court 1941; practised as lawyer, Waterville, Maine 1940-; served U.S. Navy 1942-45; mem. Maine House of Reps. 1947-51; Dem. Floor leader 1949-51; District Dir. for Maine, Office of Price Stabilisation 1951-52; City Solicitor Waterville, Maine 1954-55; Gov. of the State of Maine 1955-59; Senator from Maine 1959-; Senate Asst. Majority Whip 1966-; Chair. Senate Sub-Cttees. on Environmental Pollution, Intergovt. Relations; Chair. Dem. Senatorial Campaign Cttee. 1967-69; Cand. for Vice-presidency of U.S.A. 1968; Chair. Senate Budget Cttee. 1974-; Exec. Cttee. Nat. Govs. Conf.; mem. American Acad. of Arts and Sciences, Roosevelt Campobello Int. Park Comm.; Hon.LL.D. (Bates, Lafayette, Bowdoin and Colby Colls., Maine, Portland and Suffolk Univs.); Democrat. *Publication:* Journeys 1972. *Leisure interests:* photography, golf, gardening. *Address:* Senate Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* 202-225-5344.

MUSTAPHA BIN DATU HARUN, Tun Datu, S.M.N., S.P.D.K., S.I.M.P., P.N.B.S., S.P.M.J., S.P.M.P., S.P.C.M., K.R.C.L., K.V.O., O.B.E.; Sabah (Malaysian) administrator; b. 31 Aug. 1918; m. Helen Moore 1974; mem. Legis. Council of N. Borneo 1956-63; Chair. Sabah (N. Borneo) Nat. Council; Chair. and Leader United Sabah Nat. Org.; Yang di-Pertua Negara (Head of State) of Sabah 1963-67, Chief Minister 1967-76. *Address:* c/o Office of the Chief Minister, State Secretariat, Kota Kinabalu, Sabah, Malaysia.

MUTALLAB, Alhaji Umaru Abdul; Nigerian accountant and government official; b. 15 Dec. 1939, Katsina, Kaduna State; m.; three d.; ed. Barewa Coll., Zaria, Achimota Coll. of Admin., Ghana, S.W. London Coll., U.K.; mem. of Assen. of Certified Accountants 1965-; Man. Accountant, Fuller, Jenks, Beecroft Co. Ltd., London 1965-67; Chief Accountant, Defence Industries Corpn. of Nigeria, Kaduna 1967-71; Financial Controller, New Nigeria Devt. Co. 1971-74, Gen. Man. 1974-75; Fed. Commr. for Econ. Devt. 1975-76, for Co-operatives and Supply 1976-78; in banking in private sector July 1978-. *Address:* c/o Federal Executive Council, Lagos, Nigeria.

MUTI, Muhammad Salih; Yemeni officer and politician; b. 16 June 1944, Aden; ed. Higher Tech. Inst., Cairo; Mil. Commdr. NLF Commandos in Aden 1967; mem. High Command, Nat. Front 1968-; Exec. Cttee. 1970-, Politbureau March 1972-; Minister of the Interior 1969-73, of Foreign Affairs May 1973-. *Address:* Ministry of Foreign Affairs, Aden, People's Democratic Republic of Yemen.

MUTUALE TSHIKANIE; Zairian lawyer and diplomatist; b. 22 June 1938, Kabinda; m.; five c.; ed. Lovanium Univ.; Head of UN and OAU Affairs Div., Ministry of Foreign Affairs 1964-65; with Perm. Mission of Zaire to UN 1965-71; Dir.-Gen. for Political Affairs, Ministry of Foreign Affairs 1971, later Chef de Cabinet; Amb. to Cen. African Repub., to Algeria 1972; Perm. Rep. to UN 1974-76; mem. American Soc. of Int. Law; Judge UN Admin. Tribunal 1969-. *Address:* c/o State Commission of Foreign Affairs, Kinshasa, Zaire.

MUWAMBA, Jake Thomson X.; Malawi diplomatist; b. 14 Oct. 1925, Ndola, Zambia; m.; four c.; ed. High School in S. Africa, Swansea Univ. Coll., S. Wales; Welfare Officer, later Asst. Personnel Officer, Anglo-American Group of Mines 1954-62; Head of Dept. of Social Welfare, Govt. of Malawi 1962-69; formed Dept. of Tourism 1969, Dir. of Tourism 1971-75; Perm. Rep. to UN Dec. 1975-; also served as first interim Dir. of Sports and Culture, served on a number of school bds. *Address:* Permanent Mission of Malawi to the United Nations, 777 Third Avenue, 24th Floor, New York, N.Y. 10017, U.S.A.

MUZOREWA, Abel Tendekayi, M.A.; Rhodesian ecclesiastic; b. 14 April 1925, Old Umtali; ed. Old Umtali Secondary School, Nyadiri United Methodist Mission, Cen. Methodist Coll., Fayette,

Mo., Scarritt Coll., Nashville, Tenn., U.S.A.; Pastor, Chiduku N. Circuit 1955-57; studied in U.S.A. 1958-63; Pastor, Old Umtali Mission 1963; Dir. of Youth Work, Rhodesia Annual Conf. 1965; Jt. Dir. of Youth Work, Rhodesia Christian Council 1965; Travelling Sec. Student Christian Movt. 1965; Resident Bishop, United Methodist Church (Rhodesia Area) 1968-; Pres. African Nat. Council 1971-, All-Africa Conf. of Churches; Rep. of ANC at Geneva Conf. on Rhodesia 1976; mem. Transitional Exec. Council to prepare transfer to majority rule in Rhodesia 1978-79, Prime Minister of Zimbabwe Rhodesia, Minister of Defence and Combined Operations June 1979-; Hon. D.D. (Cen. Methodist Coll., Mo.) 1960; UN Prize for Outstanding Achievement in Human Rights 1973. *Publication:* Manifesto for African National Council 1972, Rise Up and Walk (autobiography) 1978. *Address:* United Methodist Church, P.O. Box 8293, Causeway, Salisbury; United African National Council, Salisbury, Zimbabwe Rhodesia.

MWAANGA, Vernon Johnson; Zambian diplomatist and businessman; b. 1939; ed. Hodgson Tech. Coll., Lusaka, Stanford Univ., U.S.A. and Oxford Univ., U.K.; joined Zambian independence movement 1960; mem. United Nat. Independence Party 1961-, later Regional Party Sec., Monze and Choma Areas; Deputy High Commr. for Zambia in U.K. 1964-65; Amb. to U.S.S.R. 1965-68; Perm. Rep. to UN 1968-72; Editor-in-Chief Times of Zambia 1972-73; Minister of Foreign Affairs 1973-75; mem. UNIP Cen. Cttee. 1975; Senior Business Exec. 1975-. *Address:* P.O. Box 4118, Lusaka, Zambia.

MWAKAWAGO, Daudi Ngelautwa; Tanzanian politician; b. Sept. 1939; ed. Makerere Univ., Manchester Univ.; Tutor at Kivukoni Coll., Dar [redacted] Salaam 1965-72, Vice-Principal 1970, Principal 1971; Minister for Information and Broadcasting 1972-77; fmr. mem. Historical Assen. of Tanzania, Nat. Adult Educ. Assen. of Tanzania, African Adult Educ. Assen., Income Tax Local Cttee., Bd. of Inst. of Adult Educ., Nat. Advisory Council on Educ.; fmr. dir. Nat. Devt. Corpn., Nat. Museum. *Address:* c/o The Ministry of Information and Broadcasting, Dar es Salaam, Tanzania.

MWALE, Siteke Gibson, LL.D.; Zambian diplomatist and government official; b. 22 Oct. 1929, Nyimba; s. of Isaac P. Mwale and Esnati Aliness Sakaka; m. Mbangose Shawa 1948; four s. two d.; ed. Munali School, Lusaka, Univs. of London and Manchester, U.K., Temple Univ. and Univ. of California, U.S.A.; Sr. Social Welfare Officer, Ndola 1956-60; Asst. Sec., Ministry of Labour and Social Devt. 1965-66, Ministry of Natural Resources and Tourism 1966-67; Under-Sec., Ministry of Foreign Affairs 1967-68, Perm. Sec. of Foreign Service 1969; on secondment as Head of Admin., OAU 1968-70; Amb. to Ivory Coast, Liberia, Guinea, Senegal, Mauritania 1970-74; High Commr. in Ghana, Gambia, Sierra Leone 1970-74; Amb. to U.S.A., Brazil, Argentina, Peru 1974-76; mem. Nat. Ass. 1976-; Minister of Foreign Affairs 1976-79; Nat. Order of Ivory Coast, Nat. Order of Merit of Mauritania, Hon. Paramount Chief of Panta Chiefdom, Liberia. *Address:* c/o Ministry of Foreign Affairs, P.O. Box RW 69, Lusaka, Zambia.

MWANAKATWE, John Mupanga; Zambian politician; b. 1 Nov. 1926, Chinsali; s. of late Timothy and Maggie Mwanakatwe; m. Margaret Chipawpata 1952; three s. two d.; fmr. school teacher; Headmaster of secondary school, later Educ. Officer; Parl. Sec., Ministry of Lands and Mines, N. Rhodesia (now Zambia) 1963-64; Minister of Educ., N. Rhodesia Jan.-Oct. 1964, Zambia 1964-67; Minister of Lands and Mines 1967-69; Sec.-Gen. to the Govt. 1969-70; Minister of Finance 1970-73, 1976-79; re-elected [redacted] Nat. Ass. 1973; private law practice 1973-74, 1976; Chair. Salaries Comm. 1974-75. *Publication:* The Growth of Education in Zambia since Independence. *Leisure interests:* reading, writing, golf, walking. *Address:* P.O. Box 8049, Woodlands, Lusaka, Zambia (Home). *Telephone:* 51650 (Office); 51514 (Home).

MWEMBA, Joseph Ben; Zambian teacher and diplomatist; b. 28 July 1917, Monze; s. of Benjamin Mwemba and Martha Miyanda (née Shikabasa); m. Norah Nompumelelo Solontsi 1952; two s. three d.; ed. Univ. Coll., Fort Hare, S. Africa, Ball State Univ., Muncie, Ind., U.S.A., and American Univ., Washington, D.C.; Primary school teacher 1939-41, 1947-48, Secondary school teacher 1952-60; mem. African Nat. Congress 1950-60, United Nat. Independence Party (UNIP) 1960-; Man. of Schools 1961-62; Educ. Officer 1963; Admin Officer, Ministry of Finance 1964-65; Perm. Sec. Ministry of Educ. 1965-66; Amb. and Perm. Rep. to UN 1966-68; Commr. for Tech. Educ. and Vocational Training 1968-69; Deputy Dir. Nat. Provident Fund 1969-74; mem. Nat. Ass. 1973-; Minister of State for Labour and Social Services 1974-; Pres. Northern Rhodesia Teachers' Assen. 1953-60; mem. Lockwood Cttee. for establishment of Univ. of Zambia 1961-64, Univ. of Zambia Prov. Council 1965-66. *Publications:* Mubekwabekwa, Mukandeke. *Leisure interests:* photography, writing. *Address:* P.O. Box 2144, Lusaka, Zambia. *Telephone:* 62621.

MWENDWA, Eliud Ngala; Kenyan politician; b. 1925, Kitui; ed. Kagumo Teacher Training Coll.; Teacher at Govt. African School, Kitui 1947-52; head teacher Matinyani D.E.B. Intermediate School 1953-57; teacher at Mutene Teacher Training Coll. 1959-61; [redacted] Legis. Council for Kitui 1961-; Minister for Health and Housing 1963; Minister for Labour and Social Services 1963-65; Minister for Commerce, Industry and Co-operative Devt. 1965-66; Minister for Power and Communications 1966-69; Minister of Labour 1969-74; Chair. Kenya African Nat. Union (KANU) in Kitui. *Address:* c/o Ministry of Labour, Nairobi, Kenya.

MYERS, Charles Franklin, Jr.; American industrial executive; b. 17 July 1911; m. Rebecca Wright; four d.; ed. Davidson Coll. and Harvard Univ.; Bank of New York 1935-39; Lt.-Commdr. U.S. Navy, Second World War; Vice-Pres. Wachovia Bank and Trust Co. 1939-47; Head Financial Services Dept., Burlington Industries Inc. 1947, Treas. 1953, Dir. 1955, Vice-Pres. 1961, Pres. 1962, Chief Exec. Officer 1962-73, Chair. 1968-74; Chair. Finance Cttee. 1974-76, mem. Exec. Cttee., retd. 1976; Dir. Richardson-Merrell Inc., U.S. Steel Corpn., R. J. Reynolds Industries Inc., Jefferson-Pilot Corpn.; [redacted] Business Council, Business Cttee. for the Arts; fmr. [redacted] Pres. Nixon's Comm. on Int. Trade and Investment Policy; fmr. Pres. American Textile Mfrs. Inst.; mem. Bd. of Trustees, Davidson Coll., Union Theological Seminary, The Duke Endowment, Univ. of Virginia Graduate Business School. *Address:* Burlington Industries Inc., Greensboro, N.C. 27420, U.S.A. (Office). *Telephone:* (919) 273-6116.

MYERS, Dale D., B.S.A.E.; American engineer; b. 8 Jan. 1922, Kansas City, Mo.; s. of Wilson A. and Ruth Hall Myers; m. Marjorie Williams 1943; two d.; ed. Univ. of Washington, Seattle; Aerophysics Dept., N. American 1946, Chief Engineer Missile Div. 1954, Vice-Pres. and Program Man. Hound Dog Program 1960; Vice-Pres. and Program Man., Apollo CSM, N. American 1964, Vice-Pres. and Gen. Man. Space Shuttle Program 1969; Assoc. Admin. for Manned Space Flight, NASA Headquarters 1970-74; Pres. N. American Aircraft Operations, Rockwell Int. Corpn. 1974-77, Corporate Vice-Pres. 1974-77; Under-Sec., Dept of Energy, Washington 1977-; Fellow, American Astronautical Soc., American Inst. of Aeronautics and Astronautics; Hon. Ph.D. (Whitworth Coll.); NASA Certificate of Appreciation 1969, NASA Public Service Award for contributions to [redacted] of Apollo XI 1969, NASA District Service Medal for contributions to continuing success of Apollo program 1971. *Address:* Department of Energy, Washington, D.C. 20585, U.S.A.

MYERS, George Vincent, B.A.; American business executive; b. 21 May 1916, Townsend, Montana; s. of Arthur E. Myers and Mable Etnoyer; [redacted] Christine MacDougal MacGregor 1949; three d.; ed. Univ. of Chicago; Controller Westinghouse Brake Co.; Financial Vice-Pres. Amoco Productions Co. 1953; Gen. Man. of Production, Standard Oil Co. (Indiana) 1956, Dir. 1956-, Vice-Pres. 1958, Exec. Vice-Pres. 1959, Pres. 1974-78; Dir. Walter E. Heller Int. Corpn., American Nat. Bank and Trust Co. of Chicago, American Petroleum Inst., United States Gypsum Co., IC Industries Inc.; Trustee, Rush-Presbyterian St. Luke's Medical Center, Chicago. *Address:* Standard Oil Co. (Indiana), 200 East Randolph Drive, Chicago, Illinois 60601, U.S.A. (Office).

MYERS, William Irving, PH.D.; American agriculturist (retd.); b. 18 Dec. 1891, Lowman, N.Y.; s. of George B. and Florence (née Lowman) Myers; m. Marguerite Troyell 1915; [redacted] s. four d.; ed. Cornell Univ.; Instructor in Farm Man., Cornell Univ. 1914-18; Asst. Prof. of Farm Man. 1918-20; Prof. of Farm Finance 1920-59, Emer. 1959-; Head Dept. of Agricultural Econs. 1938-43; Dean N.Y. State Coll. of Agric. 1943-59; Asst. to Chair. Fed. Farm Bd. 1933; Deputy Gov. Farm Credit Admin. 1933, Gov. 1933-38; Pres. Fed. Farm Mortgage Corpn. 1934-38; Dir. Fed. Surplus Relief Corpn. and Commodity Credit Corpn. 1934-38; Chair. Land Cttee. of Nat. Resources Planning Bd. 1938-43; mem. N.Y. State War Council 1943-46, Research Advisory Bd. of Cttee. for Econ. Devt. 1942-45; Deputy Chair. and Dir. Fed. Reserve Bank New York 1942-54; Dir. several cos.; mem. President's Famine Cttee. 1946; N.Y. State Comm. on Agriculture; President's Cttee. on Foreign Aid 1947; Agricultural Cttee. U.S. Chamber of Commerce 1951-54; Trustee, Twentieth Century Fund 1941-47; Rockefeller Foundation, Gen. Educ. Bd. 1941-57; Mutual Life Insur. Co. New York 1943-; Trustee of American Inst. of Co-operation 1944-59, Chair. of Bd. 1944-48; Trustee Carnegie Inst. of Washington; Chair. Nat. Agricultural Advisory Comm. 1952-60; Consultant for Agricultural Sciences Rockefeller Foundation 1959-66; Trustee, Agricultural Devt. Council; mem. Int. Devt. Advisory Bd., Int. Co-operation Admin. 1953-

57; Trustee, Vassar Coll. 1955-63; Dir. N.Y. State Science and Tech. Foundation 1964-; Dir. and Chair. Exec. Cttee. Marine Midland Trust Co. of Southern N.Y. 1965-70; mem. N.Y. State Council of Economic Advisers; Dir. N.Y. State Electric & Gas Corpn., American Agriculturalist Inc. *Address:* 1483 East Shore Drive, R.D.1, Ithaca, N.Y., U.S.A. *Telephone:* 607-273-7425.

MYINT MAUNG, U.; Burmese diplomatist and administrator; b. 10 March 1921, Magwe; m.; three c.; ed. Univ. of Rangoon; joined Army 1942; has held the following positions: Head of Co-operative Dept.; Chief of Admin. Div. of Burma Socialist Programme Party, also mem. Party Inspection Cttee.; mem. Pyithu Hluttaw (People's Congress) for Magwe Constituency; mem. Bd. of Dirs. of People's Bank of the Union of Burma, Exec. Cttee. of Burma Sports and Physical Fitness Cttee., Cen. Cttee. of Burma Red Cross Soc.; Chair. Resettlement Cttee. of Cen. Security and Admin. Cttee., Independence Award Cttee.; Perm. Rep. to UN 1975-77. *Address:* c/o Ministry of Foreign Affairs, Rangoon, Burma.

MYNORS, Sir Humphrey (Charles Baskerville), Bt.; British banker; b. 28 July 1903, Langley Burrell, Wilshire; s. of Rev. A. B. Mynors; twin brother of Sir Roger (Aubrey Baskerville) Mynors (*q.v.*); m. Lydia M. Minns 1939; one s. four d.; ed. Marlborough and Corpus Christi Coll., Cambridge; Fellow Corpus Christi Coll. Cambridge 1926-33; with Bank of England 1933-64, Dir. 1949-54, Deputy Gov. 1954-64; Chair. Finance Corpn. for Industry Ltd. 1964-73 (retd.). *Address:* Treago, St. Weonards, Hereford, England.

MYNORS, Sir Roger (Aubrey Baskerville), Kt., M.A.; British university professor; b. 28 July 1903, Langley Burrell, Wiltshire; s. of Rev. A. B. Mynors; twin brother of Sir Humphrey (Charles Baskerville) Mynors (*q.v.*); m. Lavinia Alington; ed. Eton Coll. and Balliol Coll. Oxford; Fellow Balliol Coll., Oxford 1926-44 (now Hon. Fellow); Prof. of Latin and Fellow of Pembroke Coll., Cambridge 1944-53; Prof. of Latin and Fellow of Corpus Christi Coll., Oxford 1953-70; Longman Fellow, Inst. of Bibliography and Textual Criticism, Leeds 1974-75; Fellow British Acad. 1944; Hon. D.Litt. (Cambridge, Edinburgh, Sheffield and Durham); Hon. mem. American Acad. of Arts and Sciences; fmr. Pres. Union Académique Internationale. *Publications:* Cassiodorus 1937, Durham MSS 1939, Catullus 1960, Pliny's Letters 1963, Balliol MSS 1963, Panegyrici 1964, Virgil 1969. *Address:* Treago, St. Weonards, Hereford, England.

MYRDAL, Alva; Swedish fmr. cabinet minister, diplomatist, sociologist and writer; b. 31 Jan. 1902, Uppsala; d. of Albert and Lova Reimer; m. Karl Gunnar Myrdal (*q.v.*) 1924; one s. two d.; ed. Stockholm and Uppsala Univs., U.S.A. and Geneva; Dir., Training Coll. Stockholm 1936-48; Principal Dir. UN Dept. of Social Affairs 1949-50; Dir. UNESCO Dept. of Social Sciences 1951-55; Minister to India, Burma and Ceylon 1955-56, Amb. 1956-61; Swedish Foreign Office 1961; Senator 1962; Minister for Disarmament 1966-72, for Church Affairs 1969-72, without portfolio 1972-73; Sec. Govt. Comm. on Women's Work 1935-38; mem. Royal Comm. on the Handicapped 1943-47, on Educ. Reform 1946-50, etc.; Del. to ILO Conf., Paris 1945, Geneva 1947, and to UNESCO Confs., Paris 1946, New Delhi 1956; Leader, Swedish Del. to 18-Nation Disarmament Cttee., Geneva 1962-73; Deputy Leader del. to UN 1967-73; mem. UN Cttee. to examine methods of resolving situation in S. AFrica 1964; Chair. Swedish Fed. of Business and Professional Women 1935-38 and 1940-42; Vice-Chair. Int. Fed. Business and Professional Women 1938-47, Swedish Inst. 1961-64; Chair. World Council on Pre-School Educ. 1947-49, Cttee. Int. Peace Research Inst. 1964-66, etc.; exec. mem. World Fed. of UN Asscns. 1948-50; Hon. LL.D. (Mount Holyoke Coll., Mass., Leeds, Edinburgh, Columbia and Temple Univs.); Peace Prize of Fed. Repub. of Germany (with K. Gunnar Myrdal, *q.v.*) 1970. *Publications:* Crisis in the Population Question, City Children, Nation and Family, Comments on World Affairs, Post War Planning, Are We Too Many?, Women's Two Roles (with Viola Klein), The Game of Disarmament 1976, Wars, Weapons and Everyday Violence 1977; Editor Via Suecia (multilingual refugee magazine) 1945-47 and Round Table on Social Problems (for the Co-op Movement) 1946-48; and numerous contributions to Swedish, English and German publs. *Address:* Vaesterlaanggatan 31, Stockholm, Sweden.

MYRDAL, Gunnar (see Myrdal, Karl Gunnar).

MYRDAL, Jan; Swedish writer; b. 19 July 1927, Stockholm; one s. one d.; Sunday Columnist (politics, culture) Stockholms-Tidningen 1963-66, Aftonbladet 1966-72; Chair. and Publr. Folket i Bild/Kulturfront 1971-72, columnist 1972-. *Works include:* films Myglaren (feature) 1966, Hjalparen (feature) 1968, Balzac or the triumphs of realism 1975; books in Swedish: Folkets Hus (drama) 1953, Hemkomst (novel) 1954, Jubelvår (novel) 1955, Att bli och vara (novel) 1956, Badrumskranen (novel) 1957, Resa i Afghanistan (travel) 1960, Bortom berg och öknar (travel) 1962, Rescontra (autobiography) 1962, Samtida bekännelser (autobiography) 1964, Söndagsmorgon (essays) 1965, Turkmenistan (travel) 1966, Moraliteter (drama) 1967, Skriftställning (essays) 1968, Ansikte av sten, Angkor (art) 1968, Garderingar (drama) 1969, Skriftställning II (essays) 1969, Kina: Revolutionen gar vidare (political) 1970, Albansk utmaning (political) 1970, Skriftställning III (essays) 1970, B. Olsen (drama) 1972, Ett 50-tal (political history) 1972, Skriftställning IV (essays) 1973, V 1975, Lag utan ordning, Kinesiska frågor (politics), Karriär (novel) 1975, Ondskan tar form (art) 1976, Tyska frågor (politics) 1976, Kina efter Mao Tse-tung (politics) 1977, En världsbild (co-author, travel) 1977, Sidenvägen (travel) 1977; books in English: Report from a Chinese Village 1965, Chinese Journey 1965, Confessions of a Disloyal European 1968, Angkor: an essay on art and imperialism 1970, China: the Revolution Continued 1971, Gates to Asia 1971, Albania Defiant 1976. *Address:* Fagervik, S-150 30 Mariefred Sweden. *Telephone:* Mariefred 108-38.

MYRDAL, (Karl) Gunnar, LL.D.; Swedish economist and fmr. politician; b. 6 Dec. 1898, Gustafs Dalecarlia; s. of Carl A. Pettersson and Anna Sofia Carlsdotter; m. Alva Reimer (*q.v.* Alva Myrdal) 1924; one s. two d.; ed. Stockholm Univ.; Lecturer in Political Economy, Stockholm Univ. 1927; Asst. Prof. Geneva Institut Universitaire de Hautes Etudes Internationales 1930; Prof. Political Economy and Financial Science, Stockholm Univ. 1933-50; Govt. Adviser on financial, economic and social questions 1933; conducted investigation on American Negroes for Carnegie Corpn. 1938-43; Minister of Trade and Commerce 1945-47; Exec. Sec. UN Econ. Comm. for Europe, Geneva April 1947-57; Prof. of Int. Economy, Stockholm Univ. 1960-; mem. Board UNRISD; Senator; Hon. LL.D. (Harvard, Yale, Brandeis, Leeds, Edinburgh, Swarthmore, Sir George Williams, Michigan, Lehigh, Howard and Atlanta Univs.); Hon. Dr.Litt. (Fisk, Uppsala Coll.), Hon. L.H.D. (Columbia, New School of Social Research, Wayne State Univ.); Hon. D.D. (Lincoln), Hon. Jur.dr., Fil dr. (Stockholm); Hon. J.D. (Nancy); Dr. Phil. h.c. (Oslo), Hon. Dr. of Soc. Sc. (Birmingham, Louisville, Jyväskylä, Dartmouth Coll., N.H.); Hon. D.C.L. (Temple Univ., Pa.); Hon. D.Hum.Litt. (Uppsala Coll.); Peace Prize of Fed. Repub. of Germany (with Alva Myrdal, *q.v.*) 1970; Nobel Prize for Econs. 1974. *Publications:* Prisbildningsproblemet och föränderligheten 1927, Sveriges väg genom penningkrisen 1931, Das politische Element in der nationalökonomischen Doktrinbildung 1932, The Cost of Living in Sweden 1830–1930 1933, Kris i befolkningsfrågan 1934, Finanspolitikens ekonomiska verkningar 1934, Monetary Equilibrium 1939, Population, A Problem for Democracy 1940, An American Dilemma: The Negro Problem and Modern Democracy 1944, Warnung gegen Friedensoptimismus 1945, The Political Element in the Development of Economic Theory 1953, An International Economy, Problems and Prospects 1956, Economic Theory and Under-developed Regions 1957, Value in Social Theory 1958, Beyond the Welfare State 1960, Challenge to Affluence 1963, Asian Drama 1968, Objectivity in Social Research 1969, The Challenge of World Poverty: A World Anti-Poverty Program in Outline 1970, Against the Stream, Critical Essays on Economics 1973. *Address:* Stockholm University, Institute for Economic Studies, Stockholm (Office); Västerlanggortan 31, Stockholm C, Sweden (Home). *Telephone:* 30-99-52 (Office); 21-36-41 (Home).

MYRES, John Nowell Linton, C.B.E., M.A., F.B.A., F.S.A.; British librarian; b. 27 Dec. 1902, Oxford; s. of Prof. Sir John L. Myres; m. Joan Stevens 1929; two s.; ed. Winchester Coll., New Coll., Oxford; Lecturer, Tutor, Christ Church, Oxford 1928-48, Librarian 1938-48; Ministry of Food 1940-45; Librarian, Bodleian Library, Oxford Univ. 1948-65; Pres. Council for British Archaeology 1958-61; Vice-Pres. Soc. of Antiquaries 1959-63, Dir. 1966-70, Pres. 1970-75; Chair. Standing Conf. of Nat. and Univ. Libraries 1959-61; Ford's Lecturer, Oxford 1958-59; Pres. Library Assn. 1963; Pres. Soc. for Medieval Archaeology 1963-66; mem. Royal Comm. on Historical Monuments, England 1969-75; Fellow, Winchester Coll. 1951-77; Hon. Student Christ Church, Oxford 1971-; Hon. Fellow, New College, Oxford 1973-; Hon. LL.D. (Toronto), Hon. D.Litt. (Reading), Hon. D.Litt. (Belfast); Gold Medal, Soc. of Antiquaries 1976. *Publications:* St. Catherine's Hill, Winchester (with others) 1930, Roman Britain and the English Settlements 1936, Anglo-Saxon Pottery and the Settlement of England 1969, A Corpus of Anglo-Saxon Pottery 1977. *Leisure interest:* British archaeology. *Address:* Manor House, Kennington, Oxford, England. *Telephone:* Oxford 735353.

MYRVOLL, Ole; Norwegian economist and politician; b. 18 May 1911, Kragerø; s. of Kristian and Marie Jensen; m. Ebba Tangen 1938; three d.; ed. Univ. of Oslo, School of Banking, and Univ. of Virginia, U.S.A.; Teacher, Norwegian School of Econs. and Business

Admin., Bergen 1942-, Prof. of Theoretical Social Econs. 1957-; Visiting Prof. Colgate Univ., U.S.A. 1958-59; Visiting Tallman Prof., Bowdoin Coll., Maine 1962; mem. State Banks Comm. 1955, Monetary and Credit Political Comm. 1960-63; mem. Council Bergens Privatbank 1960-; mem. Bergen City Council 1948-55, 1972-; Alt. mem. Storting 1958-; Minister of Wages and Prices 1963; Minister of Finance 1965-71; Mayor of Bergen 1972-; Liberal. *Address:* Statefossveien 40, Bergen, Norway. *Telephone:* 21-82-85.

N

NABRIT, Samuel Milton, PH.D.; American foundation executive; b. 21 Feb. 1905, Macon, Georgia; s. of James M. and Augusta G. West Nabrit; m. Constance Crocker 1927; ed. Morehouse Coll. and Brown Univ. Prof. of Biology, Morehouse Coll. 1925-31; Prof., Chair. of Dept. of Biology, Atlanta Univ. 1932-55, Dean, Graduate School 1947-55; Pres., Texas Southern Univ., Houston 1955-66; Commr. U.S. Atomic Energy Comm. 1966-67; Co-ordinator, Carnegie Grants-in-Aid Program 1948-55; [illegible] Nat. Cttee. on Research Science Educ. 1936-, mem. Nat. Scientific Bd. 1956-59, etc.; Exec. Dir. The Southern Fellowships Fund 1967-; Hon. D.Sc. (Brown, Howard, Atlanta Univs. and Bishop Coll.) Hon.LL.D. (Morgan, Morehouse and Bethune-Cookman Colls., Kentucky Univ.). *Leisure interests:* bridge, reading, travel, sports. *Address:* The Southern Fellowships Fund, 795 Peachtree Street, N.E., Suite 484, Atlanta, Georgia 30308, U.S.A. (Office). *Telephone:* 404-874-4891.

NABSETH, Lars, D.ECON.; Swedish industrial executive; b. 25 June 1928, Stockholm; s. of Arne and Annie (Westling) Nabseth; m. Birgitta Bygdeman 1956; one s. one d.; ed. Univ. of Stockholm and Stockholm School of Econs.; Research Asst., Industrial Inst. for Econ. and Social Research (IUI) 1952-60, Man. Dir. 1966-72; Dir. of Econ. Dept., Fed. of Swedish Industries 1961-65, First Vice-Pres. 1976-77, Dir.-Gen. May 1977-; Man. Dir. Ironmasters' Assen. 1973-75; part-time Prof. of Econs., Stockholm Univ. 1973-75; one-man investigator of Swedish ordinary steel industry, appointed by Ministry of Industry 1976; [illegible] Bd., Mo & Domsjoe AB, also of Bd., Hoeganaes AB; mem. Royal Swedish Acad. of Eng. Sciences. *Publications:* Swedish Industry during the 1970s 1970, The Diffusion of New Industrial Processes (Co-editor with G. Ray) 1974. *Leisure interests:* tennis, skiing, reading. *Address:* Sveriges Industriförbund, Storgatan 19, P.O. Box 5501, 11485 Stockholm (Office); Örnbogatan 27, 16139 Bromma, Sweden (Home). *Telephone:* 08-63-50-20 (Office); 08-80-17-78 (Home).

NABULSI, Omar, L.EN.D., M.A.; Jordanian politician; b. 1 April 1936, Nablus; s. of Hajj Nimre Nabulsi and Safia Ali; m. Haifa Hatough 1966; two s.; ed. Cairo and Ain Shams Univs.; Legal Adviser, Sasco Petroleum Co., Libya 1959-61; Political Attaché, League of Arab States 1961-70; Asst. Dir. Dept. of Admin., Royal Hashemite Court Jan.-Sept. 1970; Minister of Nat. Economy 1970-72; Amb. at the Foreign Ministry, Amman 1972; Amb. to the U.K. 1972-73; Minister of Agric. June-Nov. 1973, of Nat. Economy 1973-75; Order of Al-Kawkab of Jordan. *Leisure interests:* reading, cricket, squash, music, theatre. *Address:* c/o Ministry of National Economy, Amman, Jordan. *Telephone:* Amman 39310/39361.

NACHMANSOHN, David, M.D.; American biochemist; b. 17 March 1899, Ekaterinoslav, Russia; s. of Moses Nachmansohn and Regina Nachmansohn (née Klinkowstein); m. Edith Berger 1929; one d.; ed. Univ. of Berlin and Kaiser-Wilhelm Inst., Berlin-Dahlem; Independent Investigator, Faculty of Science, Univ. of Paris 1933-39; Instructor, School of Medicine, Yale Univ. 1939-42; at Coll. of Physicians and Surgeons, Columbia Univ., New York 1942-, Prof. of Biochem. 1955-, Prof. Emer. of Biochem. and Special Lecturer in Biochem. 1967, Dir. Neurochem. Research Unit 1958-; [illegible] Advisory Bd. of Hadassah 1950-55, Bd. of Govs. Weizmann Inst. of Science, Israel 1972- (Hon. Fellow 1972), Editorial Cttee. Annual Review of Biochemistry 1973-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, German Acad. of Sciences (Leopoldina); Counsellor Harvey Soc. 1966-69; Fellow and mem. about 20 professional socs.; Pasteur Medal 1952, Neuberg Medal 1953, Nicloux Medal 1962, Gold Medal of Spanish Superior Council for Scientific Investigations, Madrid 1975. *Main research contributions:* analysis of proteins and enzymes of excitable membranes and their role in generating bio-electricity, the basic problem of nerve impulse conduction, since 1937 has used for this work electrical organs of fish. This work has contributed to elucidation of mechanism of action of nerve gas and insecticides and to devt. of [illegible] efficient antidote against insecticide poisoning; work described in over 400 original articles and monograph Chemical and Molecular Basis of Nerve Activity 1959 (revised with E. Neumann 1975). *Leisure interests:* art, opera, history of arts and sciences, history, archaeology, int. scientific relations. *Address:* College of Physicians and Surgeons, Columbia Univ., 630 West 168 Street, New York, N.Y. 10032 (Office); 560 Riverside Drive, New York, N.Y. 10027, U.S.A. (Home). *Telephone:* 212-694-3697 (Office); 212-749-5142 (Home).

NAÇO, Rako; Albanian diplomatist; b. 15 July 1923, Pogradec; ed. Univ. of Tirana; joined Ministry of Foreign Affairs 1950; First Sec., Warsaw 1953-56, Belgrade 1956-59, Perm. Mission to UN 1963-66; Counsellor, Paris 1966-68; Perm. Rep. to UN 1972-77; del. to UN Gen. Ass. 1963-65, 1968, 1971. *Address:* c/o Ministry of Foreign Affairs, Tirana, Albania.

NADAO, Hirokichi; Japanese politician; b. 1899; ed. Tokyo Univ.; entered Home Ministry 1924; Gov. Oita Pref. 1941; Chief, Livelihood Bureau and Sanitation Bureau, Home Ministry 1944; Vice-Minister of Home Affairs 1945; mem. House of Reps. 1945-; Minister of Educ. 1956-57, 1958-59, 1963-64, 1967-68; fmr. mem. House of Reps. Standing Cttees. for the Budget and Local Educ.; fmr Vice-Chair. Political Affairs Investigation Cttee. of Liberal Dem. Party, Chair. Exec. Council Dec. 1974-; mem. Local Admin. System Research Council; Dir. Paper Bag Mfg. Co.; Liberal Dem. Party. *Address:* Liberal Democratic Party, Tokyo, Japan.

NADER, Ralph; American lawyer and author; b. 27 Feb. 1934; ed. Princeton and Harvard Univs.; admitted to Conn. Bar 1958, Mass. Bar 1959, also U.S. Supreme Court; U.S. Army 1959; law practice in Hartford, Conn. 1959-; Lecturer in History and Govt., Univ. of Hartford 1961-63; Lecturer, Princeton Univ. 1967-68; mem. American Bar Assen.; has advanced cause of consumer protection, particularly with regard to car safety in U.S.A.; Woodrow Wilson Award (Princeton Univ.) 1972. *Publications:* Unsafe at Any Speed 1965, Who Runs Congress? 1972, Editor The Consumer and Corporate Accountability 1974, Taming the Giant Corporation (co-author) 1976. *Address:* P.O. Box 19367, Washington D.C. 20036; 2000 P Street N.W. Washington D.C. 20036, U.S.A.

NADJAKOV, Georgi; Bulgarian scientist; b. 8 Jan. 1897, Stanke Dimitrov; s. of Stephan D. Nadjakov and Vasilka G. Nadjakova; m. Vera Todorova Postompirova 1928; one s. one d.; ed. Univ. of Sofia; Research Worker in Paris 1925-26; Prof. Experimental Physics, Sofia 1932; Vice-Pres. Bulgarian Acad. of Sciences 1945-58; Foreign mem. Acad. of Sciences of U.S.S.R. 1958-; Rector of Univ. of Sofia 1947-51; Vice-Pres. Cttee. for the Peaceful Use of Atomic Energy at the Council of Ministers; Dir. Inst. of Physics and Atomic Research Centre, Sofia since its foundation 1946-71; corresp. mem. Göttingen Acad. of Sciences 1940-; Discovered photoelectrets 1938. *Publications:* approximately 120 scientific publications. *Leisure interest:* gardening. *Address:* Bulgarian Academy of Sciences, 1, 7 Noemvri, Sofia (Office); 1 T. Strashimirov, Sofia, Bulgaria (Home). *Telephone:* 72-08-54, 73-41/640 (Office); 44-25-14 (Home).

NADYEZHDINA, Nadyezhda Sergeyevna; Soviet ballet master; b. 3 June 1908, Vilnyus; ed. Second Petrograd Ballet School; Ballerina at Bolshoi Theatre 1925-34; Ballet Master, Moscow Variety Soc. 1935-48; Organizer, Leader and Ballet Master Beriozka Dance Ensemble; People's Artist of U.S.S.R. 1966, State Prize 1950, Gold Medal of World Peace Council 1959, Hero of Socialist Labour 1978. *Address:* Moscow Philharmonic Society, 19 Ul. Gorkogo, Moscow, U.S.S.R.

NAFFAH, Fouad Georges, LIC.EN DROIT; Lebanese lawyer; b. 1 March 1925, Zouk Mikhaël; s. of Georges Naffah and Malvina Takla; m. Zbeide Sfeir; three s. one d.; ed. Coll. des Frères Maristes, Coll. d'Antoura, Univ. St. Joseph, Beirut; elected Deputy for Kesrouan 1960, 1972; Lecturer in Constitutional Law and Lebanese Constitution, Coll. de la Sagesse and Univ. Libanaise; Minister of Agric. March-May 1972, of Finance 1972-73, of Foreign Affairs 1973-74. *Address:* Raouché, Beirut, Lebanon (Home). *Telephone:* 314333.

NAGAI, Michio; Japanese politician; ed. Kyoto Univ., Ohio State Univ.; Asst. Prof. Kyoto Univ.; later taught at Tokyo Inst. of Tech.; Editorial Writer Asahi Shimbun 1970; Dir. Communications Inst. of East-West Center, Hawaii 1972-73; Minister of Educ. 1974-76. *Address:* c/o Ministry of Education, Tokyo, Japan.

NAGANO, Shigeo; Japanese business executive; b. 15 July 1900, Matsue-shi, Shimane; s. of Hoojo and Yae Nagano; m. Setsu Ohtsuka 1927; three s. [illegible] d.; ed. Tokyo Imperial Univ.; Gen. Man. Fuji Steel Works, Japan Iron and Steel Co. Ltd. 1934-40; Gen. Man. Japan Iron and Steel Co. Ltd. 1940-46, Man. Dir. 1946-47, 1948-50; Deputy Dir.-Gen. Govt. Econ. Stabilization Bd. 1947-48; Pres. Fuji Iron and Steel Co. Ltd. 1950-70; Chair. Nippon Steel Corpn. 1970-73, Dir., Hon. Chair. 1973-; Hon. Pres. Japan Iron and Steel Fed. 1965-; Vice-Pres. Pacific Basin Econ. Council 1970-;

Pres. Japan Chamber of Commerce and Industry, Tokyo Chamber of Commerce and Industry 1969-; Adviser, Fed. of Employers' Asscns. 1970-, Fed. of Econ. Orgs. 1970-; Counsellor, Ministry of Foreign Affairs 1962-, Bank of Japan 1970-; Chair. Prime Minister's Council for Foreign Econ. Co-operation 1969-; Order of Sacred Treasure 1970. *Leisure interests:* Go, golf. *Address:* Nippon Steel Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo (Office); 34-4, Matsubara 4-chome, Setagaya-ku, Tokyo, Japan (Home). *Telephone:* 242-4111 (Office); 321-0141 (Home).

NAGATA, Takao; Japanese business executive; b. 1 Sept. 1911; ed. Nagasaki Commercial High School; with Hitachi Shipbuilding and Eng. Co. 1934-, Dir. 1951-60, Vice-Pres. 1960-62, Pres. 1962-; Chair. Japan Shipbuilders Assn. *Address:* Hitachi Shipbuilding and Engineering Co., Ltd., 47, Edobori, 1-chome, Nishi-ku, Osaka, Japan (Office).

NAGATA, Takesi; Japanese geophysicist; b. 24 June 1913, Tokyo; Dir. Nat. Inst. of Polar Research; Prof. Emer. Tokyo Univ.; recipient of lunar samples from U.S. Apollo missions; Foreign mem. Nat. Acad. of Sciences (U.S.A.). *Address:* National Institute of Polar Research, 9-10, Kaga-1, Itabashi-ku, Tokyo 173, Japan.

NAGEL, Louis; French publisher; b. 1908, Iglo, Hungary; m. Josiane Champart 1942; ed. Univs. of Vienna, Prague and Geneva; founder of Nagel Publs.; publr. of Nagel Travel Guides; Pres. of Int. Acad. of Tourism and mem. of PEN Club; Consul Gen. of Cyprus in Switzerland; Vice-Pres. Robert Schumann Assn. for Europe; Gold Medal of City of Rome, Silver Medal of City of Rome, Silver Medal of Paris, Officer of Order of the Phoenix (Greece), Hon. G.C.M.G., Grand Officer of Order of Malta, Commdr. Ordine al Merito della Repubblica Italiana, Diploma "Prestige de la France", Ordre de la Couronne (Iran), Meridue Culturii of Romania (1st class). *Publications:* Works on philosophy, including La Paix éternelle, est-elle une utopie? 1946. *Address:* 7 rue de Savoie, Paris 6e, France; and 5 rue de l'Orangerie, Geneva, Switzerland.

NAGGAR, Abd El Moneim El; Egyptian army officer and diplomatist; b. 7 July 1920, Alexandria; s. of Ibrahim El Naggar and Amina El Said Abdou; m. Bouchra Ahmed El Naggar 1942; one s. two d.; ed. Cairo Mil. Acad., Cairo Staff Acad., Cairo Univ. and Inst. des Hautes Etudes, Univ. of Paris; Egyptian Army 1939-57; Mil. Attaché, Paris 1953-54, Madrid 1955-57; Head of E. European Dept., Ministry of Foreign Affairs, Cairo 1958; U.A.R. Consul-Gen., Bombay 1959-62, Hong Kong 1962; Amb. to Greece 1963, to France 1964-68; Head, Western, Culture and Tech. Depts., Ministry of Foreign Affairs 1968-71; Amb. to Iraq 1972-76; numerous decorations. *Leisure interests:* tennis, shooting. *Address:* c/o Ministry of Foreign Affairs, Cairo, Egypt.

NAGIBIN, Yuriy Markovich; Soviet short-story writer; b. 3 April 1920, Moscow; ed. Inst. of Cinema, Moscow; began publishing 1940; war service 1941-45; two Orders of Merit. *Publications:* A Man from the Front (stories) 1943, Two Forces 1944, A Good Heart 1944, Guardsmen on the Dnieper 1944, English trans. Short Stories of the Red Army (London) 1945, The Seed of Life 1948, The Winter Oak 1955, In Early Spring 1961, My Friends, People 1961, Before the Holiday 1960, Clean Ponds 1962, The Placid Lake and Other Stories 1966, The Green Bird with Red Crest 1966, The Heart of Another 1969, Stories 1970, The Back Streets of My Childhood 1971, My Africa (travel notes) 1973, Selected Works (2 vols.) 1973, You Will Live 1974, In April's Woods 1974.

NÁGR, Josef, CAND. SC.; Czechoslovak government official; b. 31 Dec. 1918, Trnová, N. Pilsen District; m. Jarmila Nágr 1946; one d.; ed. Univ. of Agric. and Forestry, Prague; Head of various agric. enterprises and orgs. in Karlovy Vary District 1946-59; Chief Agronomist, Head of Crop Production Dept., Ministry of Agric. 1959-62; Deputy Minister of Agric. 1962-64; First Deputy Minister of Agric., Forestry and Water Man. 1964-67; Man. Dir. of breeding and seed production enterprises, Prague 1967-70; First Deputy Minister of Agric. and Food of Czech Socialist Repub. 1970-71, Minister 1971-76; Minister of Agric. and Food, Czechoslovak Socialist Repub. Sept. 1976-; mem. Agric. Comm. of Cen. Cttee. of CP of Czechoslovakia 1962; Deputy Fed. Ass. (Parl.) 1976; Decoration for Merit in Building, Order of Labour 1968. *Publications:* a number of studies and papers on org. and man. of agric. production and devt. of crop production. *Leisure interests:* fishing and hunting. *Address:* Federální Ministerstvo Zemědělství a Výživy, Těšnov 65, Prague 1, Czechoslovakia.

NAGY, János: Hungarian diplomatist; b. 23 Sept. 1928, Ujcsalános; s. of István Nagy and Julianna Pankucsi; m. Éva Peredi 1950; one d.; ed. Budapest Univ. and Acad. of Diplomacy; entered Diplomatic Service 1948; Asst. Attaché, Hungarian Legation, London 1949-51; Officer, Ministry of Foreign Affairs 1951-53, Sr. Officer 1960, Chief of Dept. 1967; posts in Washington 1955-56, Jakarta 1957-60; Amb. to India 1963-67, to U.S.A. 1968-71; Deputy Foreign Minister 1971-; mem. Council of State 1978-. *Leisure interests:* reading and listening to music. *Address:* Ministry of Foreign Affairs, H-1394, Budapest, Hungary. *Telephone:* 350-100.

NAHAVANDI, Houshang, L. EN D., DR.ECON.SC.; Iranian economist, educationist and politician; b. 1930; ed. Univ. of Paris; Adviser to High Council of Econs. 1958-61, to Ministry of Labour 1959-61; Econ. Attaché, Iranian Embassy, Brussels 1961-63; Deputy Head, Del. to EEC 1962-63; Man. Dir. Foreign Trade Co. 1963-64; Minister of Housing and Devt. 1964-68, of Science and Higher Educ. Aug.-Oct. 1978; Chancellor, Pahlavi Univ. 1968-71, Univ. of Teheran 1971-76; Civil Aide-de-camp to H.I.M. The Shahanshah Aryamehr 1968-74; Head of the Private Cabinet to H.I.M. the Shahbanou (Empress) of Iran 1976; fmr. Temporary Exec. Council, Rastakhiz Party 1974, of Political Bureau; Bd. of Trustees, Mashad Univ. 1973, Farabi Univ. 1973, Guilan Univ. 1974, Empress Farah Foundation, High Council of Center for Int. Studies, Imperial Council for Educ., Charles de Gaulle Inst., Paris, Int. Council for Academic Co-operations, Academic Bd. of Dirs. for Inst. for Juridical Science of Devt., High Council for Nat. Educ.; Chevalier, légion d'honneur (France), Commdr. Ordre de la Cou- (Belgium), Homayoun Decoration 1st Class, 4th Class, Sepasse Decoration and several other awards. *Publications:* numer- books and articles.

NAHAYAN, H.H. Sheikh Zayed bin Sultan al-; President of the United Arab Emirates and Ruler of Abu Dhabi; b. 1918; Gov. of Eastern Province 1946-66; deposed his brother Sheikh Shakhbut and succeeded to Sheikhdom 1966; Pres. Fed. of Arabian Emirates 1969-71; Pres. United Arab Emirates (U.A.E.) 1971-. *Address:* Amiri Palace, Abu Dhabi, Arabian Gulf.

NAHMIAS, Joseph Jacques; French petroleum executive; b. 14 May 1901, Comotini, Greece; m. Mathilde Modiano 1923; one d.; founded Société France-Pétrole (later called Pétrofrance) 1934, founded Société Pétrotankers 1937, Pres./Dir.-Gen. Pétrofrance; Pres. Pétrofrance inc., New York; Dir., Pétrotransport, Pétrorep, Pétrosarep, Propétrol, Cofimap, Banque Louis-Dreyfus et Cie., Selected Risk Investments S.A., Energy Int. N.V.; Hon. Pres. A.I.P. *Address:* 42 Raymond-Poincaré, Paris 16e, France. *Telephone:* 553-50-00.

NAICKER, Gangathura Mohambry; South African doctor; b. 1910, Durban, Natal; of P. G. and Dhanamal Naicker; Mariemoothamal Appavoo 1936; d.; ed. Edinburgh Univ.; Pres. Natal Indian Congress 1945-63; Pres. S. African Indian Congress 1954-63; arrested five times 1946-60 for opposing measures discriminating against Indian community and non-European Community; ested and charged with treason 1958; released, having been found not guilty 1960; arrested during 1961 emergency and placed under banning order 1961-73. *Publication:* Historical Synopsis of Anti-Indian Legislation in South Africa 1945. *Leisure interests:* reading, golf, billiards, table tennis. *Address:* 26 Short Street, Durban, Natal, South Africa. *Telephone:* 23408.

NAIK, Vasantrao Phulsing, M.P.; Indian politician; b. 1 July 1913, Gahuli, Yeotmal, Maharashtra; s. of Shri Phulsing Naik; m. Vatsala Ghate 1941; two s.; ed. Neil City High School, Nagpur, Morris Coll., and Univ. Coll. of Law, Nagpur; Dir. Madhya Pradesh Co-operative Cen. Bank 1951-52; mem. Legis. Ass., Madhya Pradesh 1952; Deputy Minister for Revenue, Madhya Pradesh; Minister for Co-operation, Bombay 1956-57, for Agric. and Aarey Colony, Bombay 1957-60; Minister for Revenue, Maharashtra 1960-63, Chief Minister, Gen. Admin., Home Planning and Information 1963-75; M.P. 1977-; mem. Working Cttee. of All India Congress. *Leisure interests:* agriculture and politics. *Address:* Row House No. 2, Grand Paradi Apartments, August Kranti Marg, Bombay 400 036 (Office); Pusad, Yeotmal, Maharashtra (Home). *Telephone:* 36-30-30 and 36-70-60 (Office).

NAIPAUL, V. S., B.A.; Trinidad-born writer; b. 17 Aug. 1932; m. 1955; ed. Queen's Royal Coll., Port-of-Spain and Univ. Coll. Oxford; for two years freelance broadcaster with the BBC, producing programmes for the Caribbean area; fiction reviewer on New Statesman 1958-61; grant from Trinidad Govt. to travel in Caribbean 1961; in India 1962-63, in Uganda 1965-66, in U.S. 1969, in Argentina 1972, in Venezuela 1977, in U.S.A. 1978-79; John Llewelyn Rhys Memorial Prize 1958, Somerset Maugham Award 1961, Phoenix Trust Award 1962, Hawthornden Prize 1964, W. H. Smith Award 1968, Booker Prize 1971. *Publications:* The Mystic Masseur 1957, The Suffrage of Elvira 1958, Miguel Street 1959, A House for Mr. Biswas 1961, The Middle Passage 1962, Mr. Stone and the Knights Companion 1963, An Area of Darkness 1964, The Mimic Men 1967, A Flag

the Island 1967 (collection of short stories), The Loss of El Dorado 1969, In a Free State 1971, The Overcrowded Barracoon 1972, Guerrillas 1975, India: A Wounded Civilization 1977, A Bend in the River 1979. *Address:* c/o André Deutsch Ltd., 105 Great Russell Street, London, W.C.1, England.

NAIR, Vallillath Madhathil Madhavan, M.A., BAR.-AT-LAW; Indian diplomatist; b. 8 Oct. 1919, Mangalore; s. of C. K. Nair and Padmavathy Amma; m. Krishnakumari 1945; one s. one d.; ed. Presidency Coll., Madras, Brasenose Coll., Oxford, Gonville and Caius Coll., Cambridge, and Inner Temple, London; entered Indian Civil Service 1942; Sub-Div. Officer, Sitamarhi (Bihar) 1944-46; Under Sec. Ministry of External Affairs, New Delhi 1946-49; First Sec., Cairo 1950-53; Deputy Sec. Ministry of External Affairs 1953-55; Deputy High Commr. for India, Ceylon 1955-56, Acting High Commr. Ceylon 1956-57; Commr. for India in Malaya and Singapore 1957, High Commr. for India in Malaya 1957-58; Amb. to Cambodia 1958-60, to Norway 1960-63; Jt. Sec. Ministry of External Affairs 1964-67; Amb. to Poland 1967-70, to Morocco and Tunisia 1970-74, to Spain 1974-77. *Leisure interests:* reading, photography. *Address:* c/o Ministry of Foreign Affairs, New Delhi, India.

NAITO, Yosaburo; Japanese politician; mem. House of Councillors; fmr. Vice-Minister of Educ., Minister Dec. 1978-; Chair. Standing Cttees. on Educ. and Local Admin., House of Councillors. *Address:* House of Councillors, Tokyo, Japan.

NAJAR, Amiel Emile, LIC. EN DR.; Israeli diplomatist; b. 6 Sept. 1912; m. Aviva Weisman; ed. Univ. of Paris; Pres., Exec., Zionist Fed. of Egypt 1943-47; Dir. Western European Div., Ministry of Foreign Affairs 1952-57, Asst. Dir.-Gen. Ministry of Foreign Affairs 1957-58; Minister to Japan 1958-60; Amb. to Belgium and Luxembourg, Head of Mission to the EEC, EURATOM and ECSC 1961-68; Amb. to Italy 1968-73, concurrently to Malta 1968-71; mem. Israeli Del. to UN 1948, 1951-53, 1955-57, 1961, 1964, 1967, 1970; Amb. Extraordinary and Political Adviser to Minister of Foreign Affairs 1974-. *Address:* Ministry of Foreign Affairs, Jerusalem, Israel.

NAJDOWOKI, Zygmunt, M.A.; Polish politician; b. 25 April 1932, Cerekwica, Bydgoszcz Voivodship; ed. The Nicolaus Copernicus University, Toruń; after graduation worked in Voivodship Bd. of Polish Youth Union (ZMP), Bydgoszcz 1957-60; Senior Instructor in Cen. Cttee. of Polish United Workers' Party (PZPR) 1960-64; Deputy Chair. of Gen. Board of Socialist Youth Union (ZMS) 1964-73; Sec. of Voivodship Cttee. of PZPR, Zielona Góra 1973-75, First Sec. of Voivodship Cttee., Toruń 1975-78; Under-Sec. of State and First Deputy Minister of Culture and Arts June-July 1978, Minister of Culture and Arts July 1978-; mem. of Cen. Cttee. of PZPR; Commdr., Cross of Order Polonia Restituta and other decorations. *Address:* Ministerstwo Kultury i Sztuki, Krakowskie Przedmieście 15/17, 00-071 Warsaw, Poland.

NAKAGAWA, Ichiro; Japanese politician; mem. House of Reps. for Hokkaido; fmr. Private Sec. to late Banboku Ohno; fmr. Parl. Finance Vice-Minister; fmr. Head, Liberal-Dem. Party's Nat. Movement Promotion HQ; fmr. Chief of Secr. for Party Reform Plans Implementation HQ; mem. Seirankai Group; Minister of Agric. and Forestry 1977-78. *Address:* c/o Ministry of Agriculture and Forestry, 2-1 Kasumigaseki 1-chome, Chiyoda-ku, Tokyo, Japan.

NAKAGAWA, Toru: Japanese diplomatist; b. 30 March 1911, Tokyo; s. of Kenzo Nakagawa; m. Sachiko Yano 1939; two s. one d.; ed. Tokyo Univ.; Foreign Service 1933-, served New York, and Ministry of Foreign Affairs 1933-39; Sec. to Premier 1939; Sec. China, concurrently Consul, Shanghai 1942; Dir. Japanese Overseas Office, Philippines 1952-53; Head, Asia Bureau, Ministry of Foreign Affairs 1953-57; Minister, U.K. 1957-60; Head, Treaty Dept., Ministry of Foreign Affairs 1960-64; Amb. to Italy 1964-65, to U.S.S.R. 1965-71; Perm. Rep. to UN 1971-73. *Leisure interests:* golf, skating. *Address:* c/o Ministry of Foreign Affairs, 2-1 Kasumigaseki 2-chome, Chiyoda-ku, Tokyo 100; and 1-14-1 Nishiogiminami, Suginamiku, Tokyo, Japan.

NAKAI, Haruo; Japanese business executive; b. 18 May 1911, Mie-ken; s. of late Ichitaro and Saki Nakai; m. Tatsuko Yamazawa 1936; one s. three d.; ed. Nagoya Univ.; joined Nippon Suisan Kaisha Ltd. 1933, Man. Accounting Dept. 1951-57, Dir. 1952-55, Man. Dir. 1955-58, Sr. Man. Dir. 1958-61, Exec. Vice-Pres. 1961-63, Exec. Pres. 1963-73, Exec. Chair. 1973-75, Dir. and Adviser Dec. 1975-; Dir. Japan Fed. of Econ. Orgs.; mem. Nat. Fisheries Co-ordination Council, Nat. Marine Devt. Council; Blue Ribbon Medal. *Leisure interest:* Go. *Address:* Nippon Suisan Kaisha Ltd., 6-2 Otemachi 2-chome, Chiyoda-ku, Tokyo (Office); 3-6, 1-chome, Hikari-cho, Kokubunji-shi, Tokyo, Japan (Home). *Telephone:* 244-7000 (Office); 0425-72-0333 (Home).

NAKAMURA, Toshio; Japanese banker; b. 7 Jan. 1910, Ibaraki Pref.; s. of Sataro Nakamura and Kiku Saito; m. Yachiko Tsukasaki 1940; one s. one d.; ed. Law Dept., Tokyo Univ.; joined the Mitsubishi Bank Ltd. 1932, Dir. 1960-, Man. Dir. 1963, Deputy Pres. 1965, Pres. and Chair. 1970-; Dir. Mitsubishi Warehouse and Transport Co. Ltd., Orion Bank Ltd., London, Honda Motor Co. Ltd.; Auditor, Mitsubishi Heavy Industries Ltd. and Mitsubishi Petrochemical Co. Ltd.; Chair. Fed. of Bankers Assn.; Trustee, Keizai Doyukai. *Leisure interests:* golf and reading. *Address:* 7-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo (Office); 17-8, Mejirodai 1-chome, Bunkyo-ku, Tokyo, Japan (Home). *Telephone:* 03-211-8111 (Home).

NAKAMURA, Umekichi; Japanese lawyer and politician; b. 1902, Tokyo; ed. Hosei Univ.; entered law practice 1940; mem. House of Reps. 1936-; joined Japan Liberal Party; Minister of Justice 1956, 1973-74. *Address:* c/o House of Representatives, Tokyo, Japan.

NAKASONE, Yasuhiro; Japanese politician; b. 27 May 1918; ed. Tokyo Imperial Univ.; mem. House of Reps.; fmr. Minister of State, Dir.-Gen. of Science & Tech. Agency; Chair. Nat. Org. Liberal-Dem. Party, Jt. Cttee. on Atomic Energy, Special Cttee. on Scientific Tech.; Pres. Takushoku Univ.; Minister of Transport 1967-68; Minister of State and Dir.-Gen. Defence Agency Jan. 1970-71; Chair. Exec. Council Liberal-Dem. Party 1971-72; Minister of Int. Trade and Industry 1972-74; Sec.-Gen. Liberal-Dem. Party 1974-76, Chair. 1977-. *Publications:* Ideal of Youth, South Pole—Human & Science, Frontier in Japan. *Leisure interests:* golf, swimming and painting. *Address:* c/o Liberal-Democratic Party, 7,2-chome, Hirakawacho, Chiyoda-ku, Tokyo (Office); 2-18-6, Takada, Toshima-ku, Tokyo, Japan (Home).

NAKAYAMA, Komei; Japanese surgeon; b. 25 Sept. 1910, Tokyo; m. Yoshiye Nakayama; one s. one d.; ed. Chiba Univ.; Asst. Prof. of Surgery, Chiba Univ. 1941-47, Prof. of Surgery 1947-63; Prof. of Surgery, Tokyo Women's Medical Coll. 1964-, Pres. of Inst. of Gastroenterology; Visiting Prof. St. Vincent Hospital, Sydney, Australia 1961; Vice-Pres. Medical Div., Japanese Science Council; fmr. Pres. Int. Coll. of Surgeons; numerous Japanese and foreign awards. *Leisure interest:* fishing. *Address:* 2-3-18-704 Hirakawa-cho, Chiyoda-ku, Tokyo, Japan. *Telephone:* 261-0661.

NAKAYAMA, Sohei, M.COM.; Japanese banker; b. 5 March 1906, Tokyo; s. of Kinzaburo Nakayama and Tei Takami; m. Hisako Kadowaki 1935; two s.; ed. Tokyo Coll. of Commerce; Nippon Kogyo Ginko (Industrial Bank of Japan Ltd.) 1929-, Dir. 1947-50, Man. Dir. 1950-51; Dir. Japan Devt. Bank 1951-54; Deputy Pres. Industrial Bank of Japan 1954-61, Pres. 1961-68, Chair. 1968-70, Counsellor 1970-; mem. Exec. Cttee. Japan Cttee. for Econ. Devt. 1959-; Exec. Dir. Fed. of Econ. Orgs. 1962-; Pres. Overseas Tech. Co-operation Agency 1968-; Dir. Matsushita Electric Industrial Co. Ltd. 1971-; Chair. Cttee. for Energy Policy Promotion 1973-. *Leisure interests:* reading, sports. *Address:* 3-3, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100 (Office); No. 10, 10, 6-chome, Zushi, Zushi-City, Kanagawa Prefecture, Japan (Home).

NAKAYAMA, Yoshihiro; Japanese diplomatist; b. 30 Jan. 1914, Onomichi, Hiroshima-Ken; s. of Ikutaro Nakayama; m. Chieko Ohmura 1942; two s. one d.; ed. Faculty of Law, Tokyo Imperial Univ.; entered Japanese Diplomatic Service 1938; served in France, N. Vietnam, U.K., Belgium and Ministry of Foreign Affairs 1938-63; Dir.-Gen. Econ. Affairs Bureau 1963-66; Amb. to Repub. of Vietnam 1966-67; Amb. to Int. Orgs., Geneva 1967-70, Vice-Chair. GATT, Geneva 1970; Amb. to France 1970-75; Special Envoy to Middle East 1975; Head of Suite of Honour for Visit of King Hussein of Jordan 1976, for Visit of Crown Prince of Japan to Jordan, Yugoslavia and U.K. 1976; Pres. Middle East Inst. of Japan; Adviser Niigata Eng. Co. Ltd. *Leisure interests:* skiing, literature. *Address:* 4-8-29, Takanawa, Minato-ku, Tokyo, Japan. *Telephone:* 441-2852.

NAKIB, Ahmed Abdul Wahab al-; Kuwaiti diplomatist; b. 30 July 1933, Kuwait; m. Hannan Mohamed al-Bahar 1971; one s. one d.; ed. Adam State Coll., Colorado, U.S.A.; First Sec. Kuwait Embassy, London 1962-63; Counsellor first Perm. Mission of Kuwait to UN 1963-66; Consul-Gen., Kenya 1966-67; Amb. to Pakistan 1967-70, to U.K. and non-resident Amb. to Denmark, Norway and Sweden 1971-75; Chair./Man. Dir. Kuwait Projects Co. 1975-. *Address:* Kuwait Projects Co., P.O. Box 23982, Safat, Kuwait. *Telephone:* 444289.

NAŁĘCZ, Maciej, DR.; Polish scientist; b. 27 April 1922, Warsaw; s. of Aleksander and Stefania Nałęcz; m. Zofia Nałęcz 1952; one s.; ed. Warsaw Tech. Univ. Doctor 1949; scholarship to Case Inst. of Tech., Cleveland, U.S.A. 1961-62; Assoc. Prof. 1962-72, Prof. 1972-; Corresp. mem. Polish Acad. of Sciences 1967-73, Presidium

mem. and Sec. Tech. Sciences Section 1972-, mem. 1973-; Dir. Inst. of Automatic Control 1962-72; Chair. Biomedical Eng. Cttee. of Section IV 1972-; Dir. Inst. of Biocybernetics and Biomedical Eng. 1975-; Chair. Nat. Cttee. for Pugwash Confs. 1972-, Pugwash Council 1974-; Visiting Prof. Polytechnic Inst. of Brooklyn 1967-68; mem. Int. Measurement Confed. (IMEKO), Cttee. on Data for Science and Tech. (CODATA) of ICSU; mem. Int. Fed. of Automatic Control, Chair. Exec. Cttee. 1972-; Foreign mem. U.S.S.R. Acad. of Sciences 1976-; Knight's Cross of Banner of Labour, 2nd Class 1972, State Prize, 2nd Class 1972, Medal of 30th Anniversary of People's Poland 1974, Award med tack för värdefull insats (Sweden) 1957. *Publications:* Trends in Control Components (monograph), The Technology of Hall Generators and Their Use in Measurement and Conversion 1972. *Address:* Ul. Hoża 5/7m. 70, 00-528 Warsaw, Poland.

NALIVKIN, Dmitriy Vasiliyevich; Soviet geologist and palaeontologist; b. 25 Aug. 1889, St. Petersburg (now Leningrad); ed. Petrograd (now Leningrad) Mining Inst. Prof. at the Petrograd Mining Inst. 1920; on the Geological Cttee. Trust 1917-49; Pres. Stratigraphy Cttee. of U.S.S.R.; principal work devoted to the stratigraphy and palaeontology of the Palaeozoic in U.S.S.R.; in Inst. of Pre-Cambrian Geology, U.S.S.R. Acad. of Sciences 1956-; State Prizewinner 1946, awarded Karpinsky Gold Medal of the Acad. of Sciences of the U.S.S.R. 1949, Lenin Prize for directing the compilation of the geological map of the U.S.S.R. 1957, Hero of Socialist Labour, Order of Lenin (four times), Red Banner of Labour, and other decorations. *Publications:* Outline of Geology of Turkestan 1926, Brakhiopods of Late and Middle Devon in Turkestan 1930, Semiluk and Voronezh Layers 1930, Geological Structure of the Pamirs 1932, Don and Elets Layer 1934, Brakhiopods of Late and Middle Devon and Early Carbon in North Eastern Kazakhstan 1938, Second Baku Oil Deposits Between the Volga and the Urals 1939, Brakhiopods of the Main Devon Field 1941, Geological History of the Urals 1943, Devon Sedimentations in the U.S.S.R. 1947, Atlas of the Main Forms of Fossils in the U.S.S.R. 1947, Treaties on Facies: Geographical Conditions of Sedimentation Formation 1955-56, Short History of Geology in the U.S.S.R. 1957, Geology in the U.S.S.R. 1962, Problems of Global Geology: Some General Causes of Tectogenesis and Regularities of Location of Mineral Resources 1963, Hurricanes, Storms and Tornadoes 1969. *Leisure interests:* books, philately. *Address:* Laboratory of Pre-Cambrian Geology, U.S.S.R. Academy of Sciences, Naberezhnaya Makarova 2, Leningrad (Cffice); Apt. 65, Glinki Str. 3, 190000 Leningrad, U.S.S.R. (Home).

NAM DUCK-WOO, PH.D.; Korean economist and government official; b. 10 Oct. 1924; s. of Sang Bom Nam and Cha Soon Yoo; m. Hye Sook Choi 1953; two s. one d.; ed. Kook Min. Coll., Seoul, Seoul Nat. Univ. Oklahoma State and Stanford Univs.; with Bank of Korea 1952-54; Asst. Prof., Assoc. Prof., Prof., Dean of Econ. Dept., Kook Min Coll. 1954-64; Prof. Sogang Univ. and Dir. Research Inst. for Econ. and Business 1964-69; Minister of Finance 1969; Gov. for Korea, IMF, IBRD, ADB 1969-72, Chair. Bd. of Govs. Asian Devt. Bank 1970; Deputy Prime Minister and Minister of Econ. Planning Bd. 1974-8; mem. Advisory Cttee. on Evaluation of Econ. Devt. Plan, Nat. Mobilization Bd. 1964-69; Adviser to Korea Devt. Bank 1964-69; Assoc. mem. Econ. and Scientific Council 1967-69. *Publications:* History of Economic Theory 1958, Price Theory 1965, History of Economic Theory (co-author) 1962, The Determinants of Money Supply and Monetary Policy: in the case of Korea 1954-64 1966. *Leisure interests:* reading, music appreciation. *Address:* 395-101 Seokyo-Dong, Mapo-Ku, Seoul, Republic of Korea (Home). *Telephone:* 33-6767 (Home).

NAMBOODIRIPAD, E. M. Sankaran; Indian politician; b. 14 June 1909, Elamkulam Village, Malappuram District; s. of E. M. Parameswaran Namboodiripad and E. M. Vishnudatha Antherjanam; m. E. M. Arya Antherjanam 1937; two s. two d.; ed. Board High School, Perintalmanna, Victoria Coll., Palghat, St. Thomas Coll., Trichur; Chief Minister, Kerala 1957-59, 1967-69; Acting Gen. Sec., Indian CP 1962-63, then Sec.-Gen. 1978-, Leader Communist (Marxist) Party of India. *Publications:* The Peasant Question in Kerala 1950, The National Question in Kerala 1952, Mahathma and the Ism 1958, Economics and Politics of India's Socialist Pattern 1966, India under Congress Rule 1967, Kerala-Yesterday, Today, Tomorrow 1967, Indian Planning in Crisis 1974, Conflicts and crisis: Political India 1974 1974. *Address:* 10, Shanthi Nagar, Press Road, Trivandrum, Kerala State, India.

NAMGYAL, Miwang Chogyal Chenpo Palden Thondup, O.B.E.; fmr. Ruler of Sikkim; b. 22 May 1923, Gangtok; s. of Tashi and Kuyang Dechan Namgyal; m. 1st Sangay Deki, d. of Theiji Tsewang Rinzing Namgyal of Lhasa, 1950 (died 1957), two s. (one died 1978) one d.; m. 2nd Hope Cooke 1963, one s. one d.; ed. St. Joseph's Coll., Darjeeling and Bishop Cotton School, Simla; Pres. Sikkim State Council 1944-49; Pres. Maha Bodhi Soc. of India 1953; Founder-Pres. Namgyal Inst. of Tibetology, Gangtok, Sikkim; succeeded his father as Chogyal of Sikkim 1963-75, deposed after annexation of Sikkim to India April 1975; Padma Vibhushan 1954, Commdr., Ordre de l'Etoile Noire 1956, Order of Druk Jung Thusay, First Class 1974; Hon. Maj.-Gen. of Indian Army 1965, fmr. Col.-in-Chief Sikkim Guards. *Address:* Palace, Gangtok, Sikkim, India.

NAMWISI, Ma Nkoyi; Zairian politician; Minister of the Economy March-Aug. 1969; Minister of Finance 1969-72; State Commr. for Trade 1972-74, for the Economy 1974-75. *Address:* c/o State Commission for the Economy, Kinshasa, Zaire.

NANA OPOKU WARE II; Ghanaian ruler (The Asantehene); b. 30 Nov. 1919, Kumasi, Ashanti; s. of Nana Kwabena Poku and Nana Akua Achiaa; m. Nana Akua Afriyie 1947; one s. three d.; successor and nephew of Sir Osei Agyeman Prempeh II; ed. England; fmr. barrister; fmr. Commr. for Communications; named Amb. to Rome 1970; King of the Ashantis July 1970; Council of State 1971-72; Pres., Ashanti Regional House of Chiefs, Kumasi Traditional Council. *Leisure interests:* golf, farming. *Address:* Asantehene's Palace, Manhyia, Kumasi, Ashanti, Ghana. *Telephone:* 3680.

NANA-SINKAM, Samuel, PH.D.; Cameroon international official; b. 20 Dec. 1942, Bafoussam; ed. Univ. of Grenoble, France, Inst. Nat. de Statistiques et d'Etudes Economiques, Paris, Inst. Africain de Developpement Economique et de Planification, Dakar, Senegal, Univ. of Poitiers, France, George Washington Univ., Washington, D.C.; Chief of Research, Programming and Planning Service, Ministry of Planning and Devt. 1966-67; Economist, FAO 1967-70; Economist, IMF 1970-71, Tech. Asst. 1971, Adviser to Exec. Dir. 1972, Alt. Exec. Dir. 1972-76, Exec. Dir. IMF 1976-. *Publications:* articles on economics and development planning in Africa. *Leisure interests:* tennis, soccer, judo, swimming, cycling. *Address:* International Monetary Fund, 700 19th Street, N.W., Washington, D.C. 20431 (Office); 2707 Calkins Road, Herndon, Va. 22070, U.S.A. (Home). *Telephone:* (202) 393-6362 (Office); (705) 860-3410 (Home).

NANNEN, Henri; German editor; b. 25 Dec. 1913, Emden; s. of Klaas Nannen and Elise Buitenduif; m. Martha Kimm 1947; one s.; ed. Ludwig-Maximilians-Univ., Munich (art history); Art Editor for Bruckmann Verlag, Munich 1937-39; served in Second World War; Publr. and Editor Hannoversche Neueste Nachrichten 1946-47, Abendpost Hanover 1947-48; Publr. and Editor-in-Chief Der Stern (magazine), Hamburg 1948-; Hon. Citizen of Volkach 1962. *Publications:* Glanz von Innen 1943, Kleines Musikbrevier 1943. *Leisure interest:* yachting. *Address:* Gruner und Jahr AG, 2 Hamburg 36, Postfach 302040 (Office); Hamburg, Wellingsbütteler Weg 92, Federal Republic of Germany (Home).

NAPOLI, Jacopo; Italian composer; b. 26 Aug. 1911; ed. S. Pietro a Majella Conservatoire of Music, Naples; obtained diplomas in Composition, Organ and Piano; held Chair of Counterpoint and Fugue at Cagliari Conservatoire, and at Naples Conservatoire; Dir. S. Pietro a Majella Conservatoire of Music, Naples 1955, 1962; Dir. Giuseppe Verdi Conservatoire of Music, Milan; Dir. Scarlatti Arts Soc. 1955-; works performed in Germany, Spain and Italian radio. *Works:* (operas) Il Malato Immaginario 1939, Miseria e Nobiltà 1946, Un curioso accidente 1950, Masaniello 1953, I Pescatori 1954, Il Tesoro 1958, (oratorio) The Passion of Christ, Il Rosario 1962, Il Povero Diavolo 1963, Piccola Cantata del Venerdi Santo 1964, (orchestral works) Overture to Love's Labours Lost 1935, Preludio di Caccia 1935, La Festa di Anacapri 1940. *Address:* 55 Via Andrea da Isernia, Naples, Italy.

NARA, Yasuhiko; Japanese diplomatist; b. 28 April 1917, Tokyo; s. of Mr. and Mrs. Shizuma Nara; m. Michi Hayashi 1954; one d.; ed. Hitotsubashi Univ., Tokyo; Attaché, Embassy in Thailand 1942; Ministry of Foreign Affairs 1943, Second Sec. and Consul, London 1951-52; Dir. No. 3 Div., Ministry of Trade and Commerce 1953, No. 3 Div., European and American Bureau, Ministry of Foreign Affairs 1954; served in Royal Courts 1956; Dir. N. America Div., Econ. Bureau, Ministry of Foreign Affairs 1961; Counsellor, Embassy in United Arab Repub. 1962; Consul-Gen. Chicago 1965, New York 1966; Amb. to Singapore 1969, to Repub. of Viet-Nam 1972-75, to Canada April 1975-. *Leisure interest:* golf. *Address:* Embassy of Japan, Suite 1005, 75 Albert Street, Ottawa, Ont. K1P 5E7 (Office); Nishi Azabu 1-2-2-6, Minato-ku, Tokyo 106 Japan (Home).

NARAIN, Govind, M.SC.; Indian civil servant and business administrator; b. 5 May 1917, Mainpuri, Uttar Pradesh; s. of late Ram and Rajrani Narain; m. Chandra Lall 1939; three d.; ed.

Allahabad Univ. and Balliol Coll., Oxford; District Magistrate 1945-47; Home Sec. Uttar Pradesh 1948-51; Adviser-Sec. to King of Nepal 1951-54; Sec. to Uttar Pradesh Public Works Dept., Power and Information Depts. 1954-55; Devt. Commr. to Uttar Pradesh Govt.; Sec. Depts. of Planning, Econs., Statistics and Information 1955-58, Chief Sec. Uttar Pradesh Govt. 1958-61; Man. Dir. The State Trading Corpn. of India Ltd. 1961-63, Chair. May-Sept. 1963; Chair. Minerals and Metals Trading Corpn. of India Ltd. Oct. 1963-66; Adviser to Govt. of Kerala 1965; Sec. Dept. of Family Planning, Govt. of India March-Dec. 1966; Sec. Ministry of Health and Family Planning, Govt. of India Jan. 1967-Nov. 1968; Sec. Defence Production, Ministry of Defence, Govt. of India 1968-70; Sec. Ministry of Defence, Govt. of India 1968-70; Sec. Ministry of Home Affairs 1971-73, Ministry of Defence 1973-75; mem. Andhra Pradesh Admin. Tribunal 1976-77; Gov. of Karnataka 1977-78. *Leisure interests:* photography, gardening. *Address:* c/o Raj Bhavan, Bangalore-56001, India. *Telephone:* 74102.

NARAIN, Raj, LL.B.; Indian politician; b. 1917, Motikot village, Varanasi (Banaras) district, Uttar Pradesh; ed. Varanasi Univ.; mem. Nat. Cttee. of All-India Students' Fed. 1939-44; took park in sabotage in Quit India Movement 1942, detained 1942-45; detained frequently after independence; associated with Congress Socialist Party until 1958; fmr. mem. Nat. Exec., Praja Socialist Party; Gen. Sec. All-India Samyukta Socialist Party 1965-66; mem. Uttar Pradesh Legis. Ass. and unofficial leader of Opposition 1952-62; mem. Rajya Sabha 1966-72, 1974-77; cand. for Lok Sabha in Rae Bareli Constituency, Uttar Pradesh 1971, defeated by Indira Gandhi (*q.v.*); filed petition contesting election result; petition upheld in High Court 1975; detained during emergency June 1975-Feb. 1977; mem. Janata Party 1977-; mem. Lok Sabha for Rae Bareli March 1977-; Minister for Health and Family Welfare 1977-78 (resgnd.); fmr. Publr. Kesari (Hindi weekly); fmr. mem. Editorial Bd. Jan (Hindi monthly). *Address:* c/o Ministry of Health and Family Welfare, New Delhi, India.

NARAYAN, Jayaprakash; Indian politician; b. 11 Oct. 1902; ed. Bihar and U.S.A.; mem. Working Cttee. Indian Nat. Congress 1931, Act. Sec.-Gen. 1931-32; founded Congress Socialist Party 1934, Sec.-Gen. 1934-50; founded Socialist Party 1948; merged with Kisan Mazdoor Sabha Praja Party to form Praja Socialist Party, leader 1952-57; a leader of Quit India Movement 1942-43; imprisoned several times; Pres. Indian Railwaymen's Fed., All India Post and Telegraph Employees Union and Defence Employees Fed. 1946-52; engaged in Bhoodan (Land Gift Movement) 1957; detained June 1975, released on parole Nov. 1975; participated in formation of a united opposition group of four parties People's Union for Civil Liberties and Dem. Rights 1976; assisted in formation of Janata party 1977; retd. from public life Feb. 1978; Pres. All India Panchayat Parishad, All India Assen. of Voluntary Agencies for Rural Devt. 1959-63; Chair. All-India Peace Brigade, Afro-Asian Council, India-Pakistan Reconciliation Group; Co-Chair. World Peace Brigade. *Address:* Kadam Kuan, Patna 800003, Bihar, India.

NARAYAN, Rasipuram Krishnaswamy; Indian writer; b. 10 Oct. 1906; *Publications:* (all in English), novels: Swami and Friends 1935, The Bachelor of Arts, The Dark Room, The English Teacher, Mr. Sampath, The Financial Expert, Waiting for the Mahatma, The Guide 1958, The Man-Eater of Malgudi 1961, Gods, Demons and Others 1964, The Sweet-Vendor 1967; short stories: An Astrologer's Day, The Lawley Road, A Horse and Two Goats, The Ramayana prose trans.) 1972, The Painter of Signs 1977; My Days (autobiog.) 1974. *Address:* Yadavagiri, Mysore 2, India.

NARAYANAN, Kocheril Raman; Indian diplomatist; b. 4 Feb. 1921, Ozhavoor, Kerala; s. of the late Raman Vaidyan; m. Usha Narayanan 1951; two d.; ed. Travancore Univ. and London School of Econs., Univ. of London; worked in Editorial Dept. of Hindu newspaper, Madras 1944-45; Reporter, Times of India 1945; entered Foreign Service 1949; served Rangoon, Tokyo, London and in Ministry of External Affairs 1949-60; Acting High Commr. in Australia 1961-62; Consul-Gen., Hanoi 1962-63; Dir. of China Div., Ministry of External Affairs 1963-67; Amb. to Thailand 1967-69; Jt. Sec. for Policy Planning in Ministry 1969-70; Jawaharlal Nehru Fellow 1970-72; Hon. Prof., Jawaharlal Nehru Univ. 1970-72; Hon. Fellow, L.S.E. 1972-; Amb. to Turkey 1973-75; Additional Sec. for Policy Planning Div. of Ministry 1975-76; Sec. for the East, Ministry of External Affairs April-May 1976; Amb. to People's Repub. of China 1976-78, Vice-Chancellor Jawaharlal Nehru University 1979-. *Publications:* various on int. relations, Indian politics, literary subjects. *Leisure interest:* reading. *Address:* Jawaharlal Nehru University, New Delhi 110067; Kocheril House, Ozhavoor P.O., Kerala, India (Home).

NARAYANAN, Palayil Pathazapurayil; Malaysian trade unionist; b. 15 Feb. 1923, India; s. of Chettur Narayanan Nair; m. M. K. Dakshayani; three s. two d.; ed. Tech. Coll., Kuala Lumpur; mem. Fed. Legis. Council and Finance Cttee. 1948-53, 1955-59; mem. ILO Plantation Cttee. 1950, Dels. to ILO Conf. 1957, 1965, 1972, 1974, ILO Advisory Cttee. on Rural Devt. 1973-(78); mem. Exec. Council of Malayan (Later Malaysian) TUC (MTUC) 1949-; Pres. MTUC 1950-52, 1954-55, 1975-76, now also Chair. Bldg., Educ. and Int. Cttees.; Gen. Sec. Nat. Union of Plantation Workers 1954-; Pres. ICFTU Asian Regional Org. (ICFTU-ARO) 1960-66, 1969-76, Chair. ICFTU-ARO Educ. Cttee. 1960-75; Chair. World Econ. Cttee. of ICFTU 1968-, Pres. ICFTU 1975-(78); mem. Court, Univ. of Malaya 1972-75; now Vice-Pres. Int. Fed. of Plantation, Agric. and Allied Workers; mem. Nat. Family Planning Bd., Nat. Unity Council, Nat. Joint Advisory Council, Nat. Electricity Bd.; Life mem. Commonwealth Parl. Assen., Tamil Journalists Union, Sri Aurobindo Soc.; Hon. LL.D. (Penang) 1974; Gold Medal, MTUC 1951, Ramon Magsaysay Award for Community Service 1962, Gold Medal of Railway's Union of Malaya 1966, Golden Key and Freedom of City of Osaka, Japan 1972. *Publications:* short story collections: The Interview, Light in Darkness; various trade union publs.; poems in Malayalam. *Leisure interests:* trade unionism, creation of new employment opportunities, painting, sketching, writing short stories and poems. *Address:* National Union of Plantation Workers, 2 Jalan Templer, Petaling Jaya, Selangor, Malaysia (Office). *Telephone:* Kuala Lumpur 59909, 59791.

NARLIKAR, Jayant Vishnu, F.R.A.S., PH.D., SC.D.; Indian scientist; b. 19 July 1938, Kolhapur; s. of Prof. and Mrs. V. V. Narlikar; m. Mangala S. Rajwade 1966; two d.; ed. Banaras Hindu Univ. and Fitzwilliam Coll., Cambridge; Berry Ramsey Fellow, King's Coll., Cambridge 1963-69; Graduate Staff Mem., Inst. of Theoretical Astronomy, Cambridge 1966-72; Sr. Research Fellow, King's Coll. 1969-72; Jawaharlal Nehru Fellow 1973-75; Prof., Tata Inst. of Fundamental Research; Fellow, Indian Nat. Science Acad.; awarded Padmabhushan by the Indian Govt. 1965. *Publications:* Articles on cosmology, general relativity and gravitation, quantum theory, astrophysics etc. in the Proceedings of the Royal Society, London, The Monthly Notices of the Royal Astronomical Society, London, The Astrophysical Journal, Nature, Observatory, and scientific articles in various magazines; Action at a distance in Physics and Cosmology (with Sir F. Hoyle) 1974, Structure of the Universe 1977. *Leisure interests:* walking, photography. *Address:* Tata Institute of Fundamental Research, Bombay, India (Office); Flat 701, Colaba Housing Colony, Homi Bhabha Road, Bombay, India (Home). *Telephone:* Bombay 214677.

NAROVCHATOV, Sergey Sergeyevich; Soviet poet; b. 3 Oct. 1919, Khvalynsk, Saratov, R.S.F.S.R.; m. Galina Nikolayevna Melnikova; one d.; ed. Inst. of History, Philosophy and Literature, Maxim Gorky Literary Inst.; Served in Second World War; First Sec. Moscow Writers' Org. 1970-74; Chief Editor Novy Mir 1974-; Gorky State Prize R.S.F.S.R. 1974. *Publications:* poetry: Bonfire 1948, Bitter Love 1955, A Quarter of a Century 1965, Noon 1967, Selected Poetry (2 vols.) 1971; criticism: Lermontov's Lyrics 1964, Poetry in Motion 1966, Unusual Literary Criticisms 1970, 1973, The Great Patriotic War 1970, Atlantida Rows from You 1972, Selected Works 1972, It's a Long Path 1973, The Flag Flies High 1974, The Lively River (Criticism) 1974, Vasilii Buslayev 1976. *Leisure interest:* reading. *Address:* Ul. Stroitelei 4, Korp 1, Moscow B-311, U.S.S.R. *Telephone:* 130-34-58.

NASALLI ROCCA DI CORNELIANO, H.E. Cardinal Mario; Vatican ecclesiastic; b. 12 Aug. 1903, Piacenza; Ordained 1927; Titular Archbishop of Anzio 1969; created Cardinal 1969; mem. Sacred Congregation of Sacramental Discipline, Secr. for Non-Believers. *Address:* 00193 Rome, Piazza della Città Leonina 9, Italy. *Telephone:* 659-586.

NASCIMENTO, Lopo Fortunato Ferreira do; Angolan politician; mem. Presidential Collegiate in transitional Govt. before independence from Portugal Jan.-Nov. 1975; Prime Minister of Angola 1975-78; Minister of Internal Trade 1977-78; Movimento Popular de Libertaçao de Angola (MPLA). *Address:* c/o Movimento Popular de Libertaçao de Angola, Luanda, Angola.

NASH, Philleo; American anthropologist; b. 25 Oct. 1909, Wisconsin Rapids, Wis.; s. of Guy Nash and Florence B. Philleo; m. Edith Rosenfels 1935; two d.; ed. Univs. of Wisconsin and Chicago; Lecturer in Anthropology, Univ. of Toronto 1937-41; Man. Biron Cranberry Co. 1941-42, Pres. 1946-; Special Asst. to Dir., White House liaison, Office of War Information 1942-46; Special Asst., The White House 1946-52; Admin. Asst. to Pres. of U.S. 1952-53; Lieut.-Gov. of Wis. 1959-61; Asst. to Asst. Sec. for Public Land Man., Dept. of Interior 1961-62, U.S. Commr. of Indian Affairs

1961-66; Consulting Anthropologist 1966-; Asst. Prof. American Univ., Washington 1971-73, Prof. 1973-; Dir. Asscn. American Indian Affairs 1943-; [illegible] American Anthropological Assn., Soc. of Applied Anthropology, A.A.A.S. *Leisure interest:* music. *Address:* Department of Anthropology, American University, Washington, D.C. 20016 (Office); 540 N. Street, S.W., Washington, D.C. 20024, U.S.A. (Home). *Telephone:* 202-296-3960; 202-554-3775.

NASHASHIBI, Nasser Eddin; Arab journalist and politician; b. 1924; ed. American Univ. of Beirut; Chief Adviser, King Abdullah of Jordan 1950, Acting Chief Chamberlain 1951; fmr. Chief Controller and Dir. Hashemite Broadcasting; fmr. Head Press Dept., Foreign Office, Amman; Roving Editor Akhbar El Yom, Cairo; Chief Editor of daily Al-Goumhouria, Cairo 1959-64; Special Diplomatic Envoy of daily Al-Ahram in Europe; Roving Amb. of the Arab League 1965-67. *Publications include:* The Ink is Black 1971, No Camel No Sand 1976, I am the Middle East 1977. *Address:* 38 Rue Athenée, Geneva, Switzerland; and 26 Lowndes Street, London, England. *Telephone:* 463763 (Geneva); 235 1427 (London).

NASI, Giovanni, D.ING.; Italian industrialist; b. 24 Aug. 1918, Villarperosa, Turin; s. of Carlo Nasi and Aniceta Agnelli; grandson of Giovanni Agnelli, founder of FIAT; m. 1944; one s. one d.; ed. Politecnico di Torino; Vice-Chair. of FIAT (mfrs. of land, [illegible] and air vehicles and engines) until 1972; Vice-Chair. IFI, Turin 1959-; Chair. Società Assicuratrice Industriale (SAI) 1972-76, UNICEM 1977-; Pres. Turin Agency for Int. Exhbns., Centre for Winter Road Transit; Chair. Società Italiana Assicurazione Trasporti (SIAT); Mayor of Sestriere; Commendatore della Repubblica Italiana. *Leisure interests:* golf, skiing. *Address:* Via Carlo Marenco 25, 10126, Turin, Italy. *Telephone:* 65-67.

NASIR, Amir Ibrahim; Maldivian politician; b. 2 Sept. 1926, Malé; s. of Ahmed Didi and Aishath Didi; m. 1st Aishath Zubair 1950; m. 2nd Mariyam Saeed 1953; m. 3rd Naseema Mohamed Kalegefaan 1969; four s. one d.; ed. Ceylon (now Sri Lanka); Under-Sec. of State to Minister of Finance and to Minister of Public Safety, Repub. of Maldives 1954; Minister of Public Safety 1956, of Home Affairs Aug. 1957; Prime Minister (1st term) Dec. 1957, Prime Minister (2nd term) and Minister of Home Affairs, Finance, Educ., Trade, External Affairs and Public Safety Aug. 1959, Prime Minister (3rd term) and Minister of Finance, Educ., External Affairs and Public Safety 1964; Pres. of the Repub. of Maldives 1968-78 (retd.); Award of Nishan Ghazee ge Izzatheri Veriya, Ranna Bandeiri Kilegefaan; Hon. K.C.M.G. *Leisure interests:* fishing, yachting, gardening. *Address:* Velaanaage, Henvaru, Malé, Republic of Maldives (Home). *Telephone:* 822, 270 (Office); 546, 594 (Home).

NASIR, Sharif Husain bin; Jordanian politician; fmr. Minister of Royal Court; Prime Minister April 1963-July 1964; Chief of the Royal Cabinet 1967; mem. Consultative Council 1967-; Great Uncle of King Hussein. *Address:* Amman, Jordan.

NASON, John William, A.M.; American educator; b. 9 Feb. 1905, St. Paul, Minn.; s. of Albert J. Nason and Mary E. Eaton; m. 1st Bertha D. White 1935 (died 1955); m. 2nd Elizabeth M. Knapp 1957; two s. one step s. two step d.; ed. Chicago Latin School, Phillips Exeter Acad., Carleton Coll., Yale Divinity School, Harvard Graduate School, Oxford Univ.; Instructor in Phil. Swarthmore Coll. 1931-34, Asst. Prof. 1934-40, Pres. 1940-53; Pres. Foreign Policy Assn. 1953-62, mem. Bd. of Dirs. 1971-; Pres Carleton Coll. 1962-70; Asst. to American Sec. Rhodes Trust 1934-40; Pres. UN Council Philadelphia 1942-45, Vice-Pres. 1945-47; Pres. World Affairs Council of Philadelphia 1949-51, 1952-53; Fellow and mem. Bd. of Dirs. Soc. for Religion in Higher Educ.; Trustee, Phillips Exeter Acad. 1946-50, 1952-62, Edward W. Hazen Foundation, Vassar Coll. 1954-62, Eisenhower Exchange Fellowships 1953-65, Danforth Foundation 1961-68; mem. Educator's Advisory Comm. Esso Educ. Foundation 1964-68; Advisory Council to Inst. for Educational Man. (Harvard) 1975-76; mem. Visiting Comm. Harvard Graduate School of Educ. 1975-; Dir. of Studies, Assn. of Governing Bds. of Univs. and Colls. 1973-75; Dir. of Study of Foundation Trustees for Council on Foundation 1975-77; Dir. of Study of Presidential Selection and Assessment, Assn. of Governing Bds. 1977-(79); Hon. LL.D. (Pennsylvania, Carleton, Swarthmore, Hamilton, Brandeis, Johns Hopkins); Litt.D. (Mühlenberg Coll., Hahnemann Medical School and Coll.); L.H.D. (Dropsie Coll., St. Olaf Coll. and Coll. of Wooster). *Publications:* American Higher Education in 1980—Some Basic Issues 1966, Crises of the University 1970, The Future of Trusteeship: The Role and Responsibilities of College and University Boards 1975, Trustees and the Future of Foundations 1977, Presidential Search: A Guide to the Process of Selecting and Appointing College and University Presidents 1979. *Leisure interests:* tennis, skiing, mountain climbing, woodworking, mystery stories. *Address:* Rocky Point, Keene, N.Y. 12942, U.S.A. *Telephone:* 518-576-4506.

NASRIDDINOVA, Yadgar Sadikovna; Soviet civil engineer and politician; b. 26 Dec. 1920; ed. Inst. of Railway Transport Eng., Tashkent; Works Supt. Great Ferghana Canal, and the Construction of the Railway Line at "Angrenugol" Coalmines; later Sec. for School affairs Cen. Cttee. Young Communist League of Uzbekistan 1942-50; mem. CPSU 1942-; Party work 1950-52; Minister of Bldg. Materials, Uzbek S.S.R. 1952-55, Vice-Chair. Council of Ministers Uzbek S.S.R. 1955-59; Deputy to U.S.S.R. Supreme Soviet 1958-74; Chair. Presidium, Supreme Soviet of the Uzbek S.S.R. 1959-70; Vice-Chair. Presidium of Supreme Soviet of U.S.S.R. 1959-70; mem. Cen. Cttee. of CPSU 1956-76; mem. Cen. Cttee. of CP of Uzbekistan 1952-; Chair. Soviet of Nationalities, U.S.S.R. Supreme Soviet 1970-74; First Vice-Chair. Cttee. U.S.S.R. Parl. Group; Order of Lenin (four times), Order of October Revolution, and other decorations. *Address:* Presidium of U.S.S.R. Supreme Soviet, Moscow, U.S.S.R.

NASUTION, Gen. Abdul Haris; Indonesian army officer; b. 3 Dec. 1918, Kotanopan (Tapanuli), N. Sumatra; s. of Hadji Abdul Halim Nasution and Hadji Sahara Lubis; m. Johana Sunarti Gondokusmo 1947; two d. (one deceased); ed. Netherlands Military Acad., Bandung; Sub-Lieut. Netherlands Indies Army 1941, Col. 1945, Commdr. Siliwangi Division 1946-48; Deputy C.-in-C. Armed Forces 1948; Commdr. of Java, planned and led guerrillas against Dutch 1948-49; Army Chief of Staff 1950-52, reappointed 1955-62; Chair. of Jt. Chiefs of Staff and [illegible] Nat. Council 1957; Lieut.-Gen. 1958; planned campaign against rebellion in Sumatra and Sulawesi 1958; Minister of Defence and People's Security 1959-66; Chair. People's Consultative Congress 1966-72 (retd.); apptd. Gen. 1960; Deputy C.-in-C. West Irian (W. New Guinea) Liberation Command 1962; numerous awards from Indonesia and foreign countries. *Publications:* include Principles of Guerrilla Warfare, The Indonesian National Army, Notes on the Army Policy of the Republic of Indonesia, Truth and Justice, The Fight for Freedom. *Address:* 40 Teuku Umar, Jakarta, Indonesia.

NASZKOWSKI, Marian, M.A.; Polish politician; b. 15 Aug. 1912, Lwów; s. of Michał and Jadwiga Naszkowski; m.; two s. one d.; ed. Lwów Univ.; active in revolutionary youth movement and later in CP before Second World War; imprisoned for political activities 1938-39; during the [illegible] took part in formation of Polish army in U.S.S.R.; Chief Polish Mil. mission, Paris 1945-47; Amb. to U.S.S.R. 1947-50; Vice-Minister of Defence and Chief Gen. Political Bd. of Polish Army 1950-52; Vice-Minister of Foreign Affairs 1952-68; Deputy to Seym 1952-56; mem. Cen. Cttee. Polish United Workers' Party 1950-68, mem. Cen. Comm. of Party Control 1968-75; Chair. Polish Del. to Eighteen Nations Cttee. [illegible] Disarmament, Geneva 1962; Editor-in-Chief Nowe Drogi 1968-72; Amb.-Rep. of Poland to ILO, Geneva 1972-77; mem. Polish Cttee. of Peace; mem. World Peace Council; [illegible] decorations; Commdr. Cross of Polonia Restituta, Order of the Banner of Labour (1st Class), Légion d'honneur. *Publications:* Niespokojne dni (Unrestful Days) and Lata próby (The Years of Test) memoirs. *Address:* 00-759 Warszawa, ul Parkowa 13/17 m 173, Poland.

NATALI, Lorenzo; Italian lawyer and politician; b. 2 Oct. 1922; ed. Collegio d'Abruzzo dei Padri Gesuiti and Univ. di Firenze; Deputy to Parl.; Under-sec. of State for the Press and Information 1955-57; Under-sec. of State in Ministry of Finance 1957-59, in Ministry of Treasury 1960-64; Minister for the Merchant Marine Feb. 1966-68, of Public Works 1968, of Tourism and Entertainments 1968-69; Minister of Agric. 1970-73; Vice-Pres., Comm. of European Communities 1977-; Christian Democrat. *Leisure interests:* education, sport. *Address:* Commission of the European Communities, 200 [illegible] de la Loi, 1040 Brussels, Belgium (Office); Via Nibby 18, Rome, Italy (Home).

NATEL, Laudo; Brazilian banker and public official; b. 14 Sept. 1920, São Manuel, São Paulo; s. of Bento Alves Natel and Albertina Barone Natel; m. Maria Zilda Gamba Natel; two s.; ed. Mirassol, Araquaria Coll., São Paulo; fmr. Vice-Gov. of São Paulo, Gov. 1969-73; Exec. Dir. Banco Brasilero Tedesconto S.A.; Pres. Bank Consultative Cttee. of the Nat. Monetary Council; mem. Brazilian Olympic Cttee.; Pres. or mem. of several institutions and clubs in São Paulo; Orden do Mérito Militar; Commendador Soverano Orden São Paulo; numerous foreign decorations.

NATHAN, Otto, PH.D.; American economist; b. 15 July 1893, Bingen, Germany; s. of Jacob and Sara Nathan; ed. Würzburg, Freiburg and Munich Univs.; Statistical and Econ. Adviser to German Dept. of Econs. 1920-33; Dir. Dept. for Research [illegible] Int. Econ. Problems, German Inst. for Business Cycle Research; Co-Editor Vierteljahrshefte für Tonjunkturforschung 1926-30; [illegible]

German Del. to World Econ. Conf., Geneva 1927; Lecturer Hochschule für Politik Berlin 1928-33; Econ. Adviser to Pres. Hoover's Emergency Cttee. on Employment 1931; Visiting Lecturer Princeton Univ. 1933-35; Associate Prof. of Econs., New York Univ. 1935-58; Prof. of Econs. Vassar Coll. 1942-44; Chief Econ. Analyst U.S. Treasury Dept. 1944-45; Visiting Prof. of Econs., Howard Univ. 1946-52; Consultant on Econ. Literature, Library of Congress 1946-52; Executor and Trustee, Estate of Albert Einstein 1955-. *Publications:* Some Considerations of Unemployment Insurance in the Light of German Experience, The N.I.R.A. and Stablisation, Cartels and the State in the Light of German Experience, International Economic Action and Peace, Consumption in Germany during the Period of Rearmament, The Nazi Economic System 1944, Nazi War Finance and Banking 1944, Private Enterprise and Full Employment, Development of Underdeveloped Countries and the Development of Poland since 1945; edited Die Wirtschaft des Auslandes, 1900-07 1927, 1928, co-ed. Einstein on Peace 1960, Economics of Permanent Peace 1963. *Address:* 24 Fifth Avenue, New York, N.Y. 10011, U.S.A. *Telephone:* 212-477-2948.

NATHAN, Robert: American novelist; b. 2 Jan. 1894, New York; s. of Harold and Sallie Nathan; m. Joan Boniface Winnifrith 1970; one d.; ed. Exeter Acad. and Harvard Univ.; Lecturer in Poetry, New York Univ. 1924-25; mem. Exec. Cttee. U.S. PEN Club (Pres. 1940-42); mem. and Vice-Pres. Nat. Inst. of Arts and Letters; Chancellor and Hon. Fellow, Acad. of American Poets; mem. Acad. Motion Picture Arts and Sciences. *Publications:* Peter Kindred 1919, Autumn 1921, Youth Grows Old 1922, The Puppet Master 1923, Jonah 1925, Fiddler in Barly 1926, The Woodcutter's House 1927, The Bishop's Wife 1928, A Cedar Box 1929, There is Another Heaven 1929, The Orchid 1930, One More Spring 1933, Road of Ages 1935, Selected Poems 1935, The Enchanged Voyage 1936, Winter in April 1937, The Barley Field 1938, Music at Evening (play) 1938, A Winter Tide 1939, Portrait of Jennie 1939, Dunkirk 1940, They Went on Together 1941, Tapiola's Brave Regiment 1941, The Sea Gull Cry 1941, Journal for Josephine 1942, But Gently Day 1943, Morning in Iowa 1944, The Darkening Meadows 1945, Mr. Whittle and the Morning Star 1947, Long After Summer 1949, The River Journey 1949, The Green Leaf 1950, Married Look 1950, The Sleeping Beauty (play) 1950, The Innocent Eve 1951, Jezebel's Husband (play) 1951, Sir Henry 1955, The Rancho of the Little Loves 1956, So Love Returns 1958, The Snowflake and the Starfish 1959, The Weans 1960, The Color of Evening 1960, The Wilderness Stone 1961, A Star in the Wind 1962, The Married Man 1962, The Devil with Love 1963, The Fair 1964, The Mallot Diaries 1965, Juliet in Mantua (play) 1966, Stonecliff 1967, Mia 1970, The Elixir 1971, Summer Meadows 1973, Evening Song 1973, Heaven and Hell and the Megas Factor 1975. *Leisure interest:* music. *Address:* 1240 North Doheny Drive, Hollywood, Calif. 90069, U.S.A.

NATHANS, Daniel, M.D.; American professor of microbiology; b. 1928, Wilmington, Del.; m.; three c.; ed. Univ. of Delaware, Washington Univ. School of Medicine; Intern, Columbia-Presbyterian Medical Center, New York, N.Y. 1954-55, Resident 1957-59; Clinical Assoc., Nat. Cancer Inst. 1955-57; Guest Investigator, Laboratory of Dr. Fritz Lipmann, Rockefeller Univ. 1959-62; Asst. Prof. of Microbiology, Johns Hopkins Univ. School of Medicine 1962-65, Assoc. Prof. 1965-67, Prof. 1967-, Dir. Dept. of Microbiology 1972-; American Cancer Soc. Scholar in Genetics Dept. of Weizmann Inst. of Science, Rehovoth, Israel 1969; Nobel Prize for Physiology or Medicine 1978. *Address:* Department of Microbiology, Johns Hopkins University School of Medicine, 725 N. Wolfe Street, Baltimore, Mass. 21205, U.S.A. *Telephone:* (301) 366-3300.

NAUDÉ, Stefan Meiring, PH.D.; South African physicist; b. 31 Dec. 1904, De Doorns; s. of Charl F. Naudé and Annie Lötter; m. Josephine L. Ziervogel; two s. four d.; ed. Univs. of Stellenbosch, Berlin and Chicago; Instructor Univ. of Chicago 1929-30, Research Fellow 1931; Sr. Lecturer in Physics, Univ. of Cape Town 1931-33; Prof. of Experimental Physics, Univ. of Stellenbosch 1934-45; Dir. Nat. Physical Lab., Pretoria 1946-50; Vice-Pres. Council of Scientific and Industrial Research 1950-52, Pres. 1952-71; Scientific Adviser to Prime Minister 1971-76; mem. American Physical Soc., Deutsche Physikalische Gesellschaft, South African Assen. for the Advancement of Science, Int. Rotary, Associated Scientific and Techn. Socs.; Chair. Council Univ. of Pretoria; Nat. Chair. Simon van der Stel Foundation; Chair. Foundation for Educ., Science and Tech.; Hon. mem. South African Acad. of Science and Arts, Inst. of Physics, S.A. Inst. of Chem.; Trustee, South African Foundation; Hon. D.Sc., Hon. LL.D. *Leisure interest:* farming. *Address:* 420 Friesland Avenue, Lynnwood, Pretoria, Republic of South Africa (Home). *Telephone:* 47-38-39.

NAUDÉ, Willem Christiaan, D.COMM.; South African fmr. diplomatist and business executive; b. 5 May 1909; ed. Boys' High School, Stellenbosch and Stellenbosch and London Univs.; served London 1929-36, 1946-49; Washington 1937-46; Consul-Gen. Lourenço Marques 1951-54; Del. Food and Agric. Conf., Hot Springs, Va., 1943, Bretton Woods Conf. 1944, UNGA 1953, 1959, 1963, 1965, GATT Minister Conf., Tokyo 1973; Leader South African Dels. to GATT, Geneva 1954-57, 1966, 1968, 1970, to ICEM 1956-57, to UNCTAD II, New Delhi 1968; Minister, Switzerland 1956-57; Under-Sec. for External Affairs 1957-59, Deputy Sec. 1959-60; Amb. to U.S.A. 1960-65; Principal Deputy Sec. for Foreign Affairs 1965-66; Amb., Perm. Rep. Geneva 1966-71; Amb., Head of South African Mission to European Communities 1971-75; Chair. Massey-Ferguson (S.A.) Ltd.; Chair. Huguenot Soc. of South Africa. *Address:* 1 Quendon Road, Sea Point, Cape Town 8001, Republic of South Africa.

NAUMANN, Konrad; German politician; b. 25 Nov. 1928, Leipzig; ed. Komsomol High School, Moscow; mem. of CP of Germany (KPD) 1945; mem. Socialist Unity Party (SED) 1946-; Agricultural labourer 1945-46; Official of Freie Deutsche Jugend (FDJ) in Leipzig 1946-47, Chair. 1947-48; First Sec. FDJ, Bezirk Frankfurt/Oder 1952-57; mem. FDJ Cen. Council 1952-67, Second Sec. 1957-64; Cand. mem. SED Cen. Cttee. 1963-66, mem. 1966-; Cand. mem. Politburo 1973-76, mem. May 1976-; Second Sec. SED, Bezirk Berlin 1967-71, First Sec. 1971-; mem. Volkskammer 1967-; Vaterländischer Verdienstorden in Bronze and Silver and other decorations. *Address:* Sozialistische Einheitspartei Deutschlands, 102 Berlin, Am Marx-Engels-Platz 2, German Democratic Republic.

NAUMANN, William L.; American business executive; b. 20 Nov. 1911, Desloge, Mo.; s. of Jules L. Naumann and Barbara Eichenlaub; m. Emma H. Bottin 1934; one s. one d.; joined Caterpillar Tractor Co. 1929, Man. Joliet Ill. Plant 1952, East Peoria Plant Man. 1956, Vice-Pres. 1960, Admin. Dir. of Mfg., Purchasing, Quality and Traffic Gen. Offices 1963, Exec. Vice-Pres. 1966, Dir. 1967-, Vice-Chair. 1972-75, Chair. 1975-77; Dir. Abex Corpn., Jefferson Trust & Savings Bank of Peoria, Pekin Nat Bank, IC Industries Inc., IC Products Co., Northern Telecom Ltd., Helmerich & Payne Inc., Verson Allsteel Press Co.; mem. Advisory Bd. St. Francis Hosp., Peoria, British-North American Cttee.; Trustee, Ill. Wesleyan Univ. *Address:* 8307 Bramberry Lane, Peoria, Ill. 61614, U.S.A.

NAUTA, Walle Jetze Harinx, M.D., D.SC.; American anatomist; b. 8 June 1916, Medan, Indonesia; s. of Haring Jelles and Janneke Bos; m. Ellie Plaat 1942; one s. two d.; ed. Univ. of Leiden; Lecturer, Univ. of Utrecht 1941-46; Assoc. Prof. Univ. of Leiden 1946-47; Assoc. Prof. Univ. of Zürich 1947-51; Neurophysiologist, Walter Reed Army Inst. of Research 1951-64; Prof. of Anatomy, Univ. of Maryland 1955-64; Prof. of Neuroanatomy, M.I.T. 1964-73, Inst. Prof. 1973-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc.; Pres. Soc. for Neuroscience 1973. *Publications:* Hypothalamic Regulation of Sleep in Rats 1946, Silver Impregnation of Degenerating Axons 1954, Ascending Pathways in the Brain Stem Reticular Formation 1958, Hippocampal Projections 1958, Fiber Connections of the Hypothalamus 1969, The Problem of the Frontal Lobe 1971. *Address:* 196 Kent Road, Newton, Mass. 02168, U.S.A.

NAVARRE, Général Henri: French army officer; b. 31 July 1898, Villefranche de Rouergne; s. of Octave Navarre and Clémence Navarre (née Dupuy); m. Suzanne Boulard 1922; one s.; ed. Ecole Spéciale Militaire, St. Cyr; joined 2nd Régiment de Hussards 1917, served through all ranks to Brigadier 1945, Divisional Gen. 1950 and Gén. de Corps d'Armée 1952; served in the Levant (Spahis) 1920-22, in Germany 1922-26; Cours des Hautes Etudes Germaniques 1925; Cours d'Auto-mitrailleuses 1926; Ecole de Guerre 1928-30; in Morocco 1931-34; Chief of German Section, General Staff of Army 1936-40; Chief 2e Bureau, Algiers 1940-42, recalled to France by Admiral Darlan 1942; Resistance leader 1943-45; brigade command during advance into Germany; Dir. of the Council of the Gen. C.-in-C. Germany 1945-48; Commdr. Constantine Div. 1948-49; Inst. des Hautes Etudes de la Défense Nationale 1949-50; in command 5th Armoured Div. 1950-52; Deputy C.-in-C. French Forces in Germany 1952, Chief of Staff of the C.-in-C. Cent. Europe 1952-53; C.-in-C. (Combined Forces) Indo-China 1953-54; mem. Conseil Supérieur de Guerre 1956; retd. 1956; awards include Grand-Officier, Légion d'honneur. *Publications:* Agonie de l'Indochine 1956. *Leisure interest:* history. *Address:* 45 Rue de Chézy, Neuilly sur Seine, France. *Telephone:* 747-16-18.

NAVILLE, Marcel A.; Swiss International Red Cross official; b. 12 Aug. 1919, Geneva; s. of Frédéric Naville and Dora Amphoux; m. Béatrice Vernet 1943; one s. two d.; ed. Coll. and Univ. de Genève; attached to Foreign Interests Dept. of Swiss Fed. Political Dept. 1942-43; mem. Juridical Div. of Int. Cttee. of Red Cross 1943-

46; studies in Rome and Paris 1947-51; Capt. in Swiss Army 1948; banking career 1952-69, Dir. Banque Populaire Suisse, Geneva 1965-69; Pres. Cercle de la Presse et des Amitiés étrangères, Geneva 1964-69, Fondation pour Genève 1976; mem. Int. Cttee. of Red Cross 1967, Pres. 1969-73. *Leisure interests:* reading, walking, swimming. *Address:* 33 chemin du Velours, 1211 Conches-Genève, Switzerland.

NAVON, Yitzhak; Israeli politician and Head of State; b. 19 April 1921, Jerusalem; s. of Yosef Navon and Miriam Ben-Atar; m. Ophira Reznikov-Erez; one s. one d.; ed. Hebrew Univ. of Jerusalem; Dir., Hagana Arabic Dept., Jerusalem 1946-49; Second Sec., Israel Legation in Uruguay and Argentina 1949-51; Political Sec. to Foreign Minister 1951-52; Head of Bureau of Prime Minister 1952-63; Head, Dept. of Culture, Ministry of Educ. and Culture 1963-65; mem. Knesset 65-78; fmr. Deputy Speaker; fmr. Chair. Knesset Defence and Foreign Affairs Cttee.; Chair. World Zionist Council 1973-78; Pres. of Israel May 1978-; mem. Mapai Party 1951-65, Rafi 1965-68, Israel Labour Party 1968-. *Leisure interests:* theatre, folklore, cantorial music. *Address:* Office of the President, Jerusalem, Israel.

NAVRÁTIL, Jan, M.D., D.SC.; Austrian surgeon; b. 26 Jan. 1909, Neu Spielberg, Melk, Austria; s. of Vldimir and Marianne (née Helget) Navrátil; m. Vera Avratova; one s. one d.; ed. Medical Faculty, Masaryk Univ., Brno.; Asst. Prof. of Surgery Purkyně Univ., Brno 1946-53, Head of Second Surgical Clinic, Medical Faculty 1953-67, Prof. of Surgery 1954-; Corresp. mem. Czechoslovak Acad. of Sciences 1965-; Head of Second Surgical Clinic, Vienna Univ. 1967-; mem. Czechoslovak surgical Soc., Deutsche Akad. der Naturforscher Leopoldina, Halle, Soc. Int. Cardio-Vasculaire, Soc. Int. de Chirurgie, Brussels, American Heart Assen., New York, American Coll. of Chest Physicians, Chicago, Int. Coll. of Surgeons, Chicago, Austrian Acad. of Science; Czechoslovak Peace Prize 1959, J. E. Purkyně Medal 1960, 1969, Order of Repub. 1962. *Publications:* Repair of Heart Defects by Open Chest Surgery 1963, Cardiosurgery 1970; and papers in Czechoslovak and foreign medical journals. *Address:* Spitalgasse 23, 1090 Vienna 19, Austria. *Telephone:* Vienna 323302.

NAYAR, Sushila, DR.P.H.; Indian doctor; b. 26 Dec. 1914, Kunjah District, Gujrat, Pakistan; d. of Brindaban and Taradevi Nayar; unmarried; ed. Lahore Coll. for Women, Lady Hardinge Medical Coll., Delhi, Johns Hopkins Univ., U.S.A.; Medical Attendant to Mahatma Gandhi and his Ashram; work for communal harmony in West Punjab, Noakhali; Dir. Mahatma Gandhi Inst. of Medical Sciences, Prof. of Preventive and Social Medicine 1969-; Pres. All-India Prohibition Council; mem. Lok Sabha 1957-71; fmr. Minister of Health, Rehabilitation and Transport, Delhi State; Speaker Delhi Legis. Ass. 1952-56; Minister of Health, Govt. of India 1962-67; Pres. S.P.C.A. 1952-62; Chair. Indian Red Cross; Pres. All-Indian Inst. of Medical Sciences, Tuberculosis Assen. of India 1964-67, Kasturba Health Soc. 1964-. *Publications:* Kasturba, Karavas ki Kahani, etc. *Leisure interests:* writing, painting, reading, bridge. *Address:* Kasturba Hospital, Sevragram, Wardha, A.2 Soami Nagar, New Delhi 17, India (Office). *Telephone:* 022-R33; 74147 (New Delhi).

NAZARKIN, Konstantin Ivanovich; Soviet banker and politician; b. 1906; ed. Tashkent Finance and Econs. Inst.; began work in State Bank system 1925; Man. Uzbek Repub. Bd. of U.S.S.R. State Bank 1944-49; mem. Bd. of U.S.S.R. State Bank 1949-57; Deputy Chair. Bd. of Foreign Trade Bank of U.S.S.R. 1961-63; Chair. Bd. of Foreign Trade Bank of U.S.S.R. 1961-63; Chair. Bd. of Int. Bank for Econ. Co-operation Oct. 1963-. *Address:* International Bank for Economic Co-operation, Kuznetsky Most 15, 103031 Moscow K-31, U.S.S.R.

NDEGWA, Duncan Nderitu, M.A.; Kenyan civil servant; b. 11 March 1925, Nyeri District; ed. Alliance High School, Kikuyu, Makerere Univ. Coll., Uganda and Univ. of St. Andrews, Scotland; Statistician, E. African High Comm. 1956-59; Asst. Sec. Kenya Treasury 1959-63, Deputy Perm. Sec. 1963; Perm. Sec. and Head of Civil Service 1963-66; Sec. to Cabinet 1963-67; Gov. Cen. Bank of Kenya and Alt. Gov. IMF 1967-; Chair. Comm. of Enquiry (Public Service Structure and Remuneration Comm.) 1970; Chief of the Burning Spear. *Address:* P.O. Box 20423, Nairobi, Kenya.

N'DONG, Léon; Gabonese diplomatist; b. 15 Feb. 1935, Libreville; m. 1971; two s. one d.; ed. School of Law and Econ. Sciences, Rennes, France; Under-Sec. Gen. of Ministry of Foreign Affairs, later Sec.-Gen.; Teacher, Nat. School of Admin. 1969-72; Amb. to Cen. African Repub. and Sudan 1972-73, to Morocco 1973-74, to UN Office at Geneva 1974-76, to UN Sept. 1976-; Commdr. de l'Etoile Equatoriale, Grand Cordon of Order of the Brilliant Star (China), Commdr., Order of Devotion (Malta). *Leisure interests:* reading, music. *Address:* Permanent Mission of Gabon to the United Nations, 820 Second Avenue, Room 902, New York, N.Y. 10017, U.S.A. (Office).

NDONGALA, Tadi Lewa, D.ECON.; Zairian economist; b. 1933, Kumbi, Bas-Zaire; ed. Univ. of Lovanium, Kinshasa, and Brussels Nat. Inst. of Statistics; Research Asst. in rural econ., Inst. de Recherches Economiques et Sociales, Univ. of Lovanium 1963; attended Congress of African Research Insts., Bellagio, Italy 1964; research work at the Inst. Malassis, Rennes 1965; mem. Vice-Rectorate, Univ. Officielle du Congo 1967-68; Deputy Del. in charge of econ. and financial research, Office Nat. de Recherche et de Développement 1968-69, concurrently Personal Adviser to Pres. Mobutu; Vice-Minister of Nat. Econ. 1969-70, of Foreign Trade Sept.-Oct. 1970, of Agric. Oct. 1970-71, of Finance 1971-72; State Commr. (Minister) of Nat. Econ. 1972-74, of Commerce 1974-75. *Address:* c/o Office of the State Commissioner for Commerce, Kinshasa, Zaire.

NE WIN, U (Maung Shu Maung); Burmese politician and fmr. army officer; b. 24 May 1911; ed. Govt. High School, Prome and Rangoon Univ.; joined Allied Forces 1945; Vice-Chief of Gen. Staff and Major-Gen. 1948; Deputy Prime Minister 1949-50; Gen. 1956; Prime Minister and Minister of Defence Oct. 1958-60; Chief of Gen. Staff 1962-72; Prime Minister, Minister of Defence, Finance, and Revenue, Nat. Planning and Justice 1962-63; Prime Minister, Minister of Nat. Planning and Defence 1963; Prime Minister and Minister of Defence, also Chair. of Revolutionary Council 1965-74; Chair. Exec. Cttee. Burma Socialist Programme Party 1973-; Pres. of Burma 1974-; Legion of Merit (U.S.A.). *Address:* Office of the President, Rangoon, Burma.

NEAGLE, Dame Anna (Florence Marjorie Wilcox), D.B.E.; British actress and producer; b. 20 Oct. 1904, London; d. of Capt. H. W. Robertson and Florence Neagle Robertson; m. Herbert Wilcox, C.B.E., 1943 (died 1977); ed. St. Albans High School, Wordsworths Physical Training Coll.; began theatrical career as child dancer in The Wonder Tales 1917, in chorus of Bubbly 1925; C. B. Cochran Revues 1926-30; juvenile lead with Jack Buchanan in Stand Up and Sing, London 1931; many film awards. *Theatre appearances include:* Rosalind in As you Like It 1934, Olivia in Twelfth Night 1934, Peter Pan 1937, Emma 1944, The Glorious Days 1952-53, The More the Merrier 1960, Charlie Girl 1965-71, No, No, Nanette, The Dame of Sark 1975, The First Mrs. Fraser 1976, Maggie 1977, Most Gracious Lady 1978, Relative Values (Vienna English Theatre) 1978, My Fair Lady 1978/79. *Films include:* Goodnight Vienna 1932, The Little Damozel 1933, Bitter Sweet 1934, Nell Gwynn 1934, Peg of Old Drury 1935, Victoria the Great 1937, Sixty Glorious Years 1938, Nurse Edith Cavell 1939, Irene 1939, Sunny 1940, They Flew Alone (U.S. title Wings and the Woman) 1941, I Live in Grosvenor Square 1944, Piccadilly Incident 1946, The Courtneys of Curzon Street 1947, Spring in Park Lane 1948, Maytime in Mayfair 1949, Odette 1950, The Lady with the Lamp 1951, Lilacs in the Spring (U.S. title Let's Make Up) 1954, My Teenage Daughter 1956, The Man Who Wouldn't Talk 1957, The Lady is Square 1959. *TV plays:* A Letter from the General, Shadow in the Sun; produced films: These Dangerous Years 1956, Wonderful Things 1958, The Heart of a Man 1959. *Publications:* There's Always Tomorrow (autobiog.) 1974. *Leisure interests:* reading, swimming, walking, theatre, cinema, cats, music. *Address:* c/o Herbert de Leon, 13 Bruton Street, London, W.1; 117 Hamilton Terrace, London, N.W.8, England (Home).

NEAL, Sir Leonard Francis, Kt., M.A., C.B.E.; British industrial relations official; b. 27 Aug. 1913, London; s. of Arthur Henry Neal and Mary Cahill; m. Mary L. Puttock 1939; [redacted] s. [redacted] d.; ed. London School of Econs. and Trinity Coll., Cambridge; Deputy Employee Relations Adviser, Esso Petroleum Co. 1962-66; Labour Adviser, Esso Europe Inc. 1966; mem. for Personnel, British Railways Bd. 1967-71; Chair. Comm. on Industrial Relations 1971-74; Chair. Employment Conditions Abroad Ltd. 1977-; Pres. Assen. of Supervisory and Exec. Engineers 1974-; non-exec. Dir. Pilkington Bros. Ltd. 1976-; mem. Council of Open Univ.; Adviser to Bd. of a number of private, commercial and industrial cos.; Visiting Prof. of Industrial Relations, Manchester Univ. 1969-72. *Publications:* A Manager's Guide to Industrial Relations (with A. Robertson). *Leisure interests:* gardening, reading. *Address:* Brightling, nr. Robertsbridge, Sussex, England. *Telephone:* 01-828 9528.

NEAL, Patricia; American actress; b. 20 Jan. 1926, Packard, Ky., U.S.A.; d. of William Burdette Neal and Eura Mildred Petrey; m. Roald Dahl 1953; one s. four d.; ed. Northwestern Univ., Ill. *Stage appearances include:* Another Part of the Forest 1946, The Children's Hour 1953, A Roomful of Roses 1954, Suddenly Last Summer 1958, The Miracle Worker 1959; Antoinette Perry Award (Tony) 1946; Academy Award (Oscar) for film Hud 1963. *Films:* John loves

Mary 1949, The Hasty Heart 1949, The Fountainhead 1949, The Breaking Point 1950, Three Secrets 1950 Raton Pass 1951, The Day the Earth Stood Still 1951, Diplomatic Courier 1952, Something for the Birds 1953, A Face in the Crowd 1957, Breakfast at Tiffanys 1961, Hud 1963, The Third Secret 1964, In Harms Way 1965, The Subject was Roses 1968, The Road Builder 1970, The Boy 1972, Happy Mother's Day Love George 1973. *Leisure interests:* playing bridge and scrabble, cooking. *Address:* Gipsy House, Great Missenden, Bucks., England.

NEAME, Ronald; British film director; b. 23 April 1911, London; s. of Elwin Neame and Ivy Close; m. Beryl Heanly; one s.; messenger and tea boy, British Int. Film Studios 1925; became Dir. of Photography 1932; *films photographed include:* Drake of England 1934, The Gaunt Stranger 1937, Four Just Men, Major Barbara 1940, One of Our Aircraft is Missing 1942; with David Lean (*q.v.*) and Anthony Havelock-Allen, formed Cineguild and produced Great Expectations 1946, Oliver Twist 1947 and The Passionate Friends 1948, and photographed In Which We serve 1942, This Happy Breed 1943, Blithe Spirit 1945; film director 1950-; *films directed include:* Take My Life 1947, The Golden Salamander 1950, The Card 1950, The Million Pound Note 1953, The Man Who Never Was 1956, Windom's Way 1958, The Horse's Mouth 1959, Tunes of Glory 1960, I Could Go On Singing 1962, The Chalk Garden 1964, Mr. Moses 1965, A Man Could Get Killed 1966, Gambit 1966, The Prime of Miss Jean Brodie 1968, Scrooge 1970, The Poseidon Adventure 1972, The Odessa File 1974, Meteor 1978. *Leisure interests:* photography, stereo and hi-fi equipment. *Address:* 194 Old Brompton Road, London, S.W.5., England.

NECKERMANN, Josef; German businessman and showjumper; b. 5 June 1912, Würzburg; m. Annemarie Brückner 1934; two s. one d.; ed. grammar school, Würzburg; joined his father's business 1933; in charge of a Würzburg store 1934-38; Head of mail order house Berlin 1938; State Commr. for Clothing 1939-45; Head, Zentrallagergemeinschaft mbH., Berlin 1939-45; Founder textile wholesale business Frankfurt am main 1948; fmr. Owner and Man. Neckermann Versand KGaA 1950, Mail Order Houses, Frankfurt am Main; founded Neckermann Eigenheim GmBH 1963, Neckura Neckermann Versicherungs AG 1965, N.U.R. Neckermann und Reisen GmbH 1964; Hon. Consul of Kingdom of Denmark; Pres. Stiftung Deutsche Sporthilfe; Dr. med.vet. h.c. Bronze Medal, Olympic Games (1960) Gold Medal, Olympic Games (1964), World Championship of dressage (1966) Silver and Gold Medals, Olympic Games (1968) Bronze Medal, Olympic Games 1972; Grand Cross of Merit. *Address:* 6071 Götzenhain/Hessen, Haus Kirchborn, Federal Republic of Germany (Home). *Telephone:* 40-41.

NEEDHAM, James J.; American securities official and accountant; b. 1926, Woodhaven N.Y.; s. of James Joseph Needham (deceased) and Amelia Pasta Needham; m. Dolores A. Habick 1950; three s. two d.; ed. Cornell and St John's (Brooklyn) Univs.; Partner, Price Waterhouse & Co., then Raymond T. Hyer & Co.; joined A. M. Pullen & Co. 1957, subsequently partner, in charge of New York office and mem. Exec. Cttee.; Commr. Securities and Exchange Comm. 1969-72; Chair. New York Stock Exchange 1972-76; Vice-Pres. Int. Fed. of Stock Exchanges 1973-75, Pres. 1976-; mem. American Inst. Certified Public Accountants, N.Y. State Soc. of Certified Public Accountants, N.Y. Chamber of Commerce and Industry, U.S. Council of Int. Chamber of Commerce, Nat. Centre for Productivity and Quality of Working Life, Capital and Tech. Cttee of Foundation for Auditability Research and Educ.; dir. numerous corpns.; fmr. mem. New York Credit and Financial Man. Assn., Bishop's Cttee. of the Laity; Hon. DLL. (St. John's Univ.) 1972; Distinguished Prof., Graduate Dir., Coll. of Business Admin., St. John's Univ.; N.Y. State Soc. of Certified Public Accountants Award. *Address:* 277 Park Avenue, New York, N.Y. 10017 (Office); Southgate, Alger Court, Bronxville, N.Y. 10708, U.S.A. (Home).

NEEDHAM, Joseph, PH.D., SC.D., F.R.S., F.B.A.; British biochemist, historian of science and orientalist; b. 1900, London; s. of Joseph and Alicia Needham; m. Dorothy Moyle 1924; ed. Oundle School and Cambridge Univ.; Fellow, Caius Coll., Cambridge 1924-, Pres. 1959-66, Master 1966-76, Sr. Fellow 1976-; Univ. Demonstrator in Biochem., Cambridge 1928-33; Visiting Prof. of Biochem., Stanford Univ., Calif. 1929; Dunn Reader in Biochem., Cambridge 1933-66; Lecturer Yale Univ., Cornell Univ., Oberlin Coll. 1935; Oliver Sharpey Lecturer, Royal Coll. Physicians 1935-36, Herbert Spencer Lecturer, Oxford 1936-37; lectured Warsaw, Lwów, Cracow and Wilno Univs. 1937; Head of Sino-British Science Co-operation Office and Counsellor British Embassy, Chungking 1942-46; Head of Div. of Natural Sciences UNESCO 1946-48; now Hon. Counsellor to UNESCO; Chair. Ceylon Govt. Comm. on Univ. Educ. 1958; Hitchcock Prof. Univ. of Calif., Noguchi Lecturer, Johns Hopkins Univ. 1950; Hobhouse Lecturer, London Univ. 1950; Visiting Prof. Univ. of Lyon 1951; visiting lecturer at numerous European and Asian univs. 1956-; Visiting Prof. Coll. de France, Paris 1973; Visiting Prof. Univ. of British Columbia 1975; foreign mem. Nat. Acad. of China (Academia Sinica), Royal Danish Acad. of Sciences; Pres. Int. Union of the History of Science 1972-75; mem. Int. Acads. of the History and the Philosophy of Science and the History of Medicine; Hon. Fellow, Science Policy Foundation; Phil. Dr. h.c. (Uppsala); Hon. D.Sc. (Brussels, E. Anglia); Hon. LL.D. (Toronto); Hon. D.Litt. (Hong Kong, Salford); Order of Brilliant Star (China); Sir William Jones Medallist, Asiatic Soc. of Bengal, George Sarton Medallist, History of Science Soc., Leonardo da Vinci Medallist, History of Technology Soc. *Publications:* Man ▪ Machine 1927, The Sceptical Biologist 1929, Chemical Embryology (3 vols.) 1931, The Great Amphibium 1932, A History of Embryology 1935, Order and Life 1935, Adventures before Birth (trans.) 1935, Biochemistry and Morphogenesis 1942, Time, the Refreshing River 1942, History is on Our Side 1944, Chinese Science 1945, Science Outpost 1948, Science and Civilisation in China (7 vols.) 1954-, The Development of Iron and Steel Technology in China 1958, Heavenly Clockwork 1960, Time and Eastern Man 1965, Clerks and Craftsmen in China and the West 1970, The Grand Titration, Science and Society in East and West 1970, Within the Four Seas, the Dialogue of East and West 1970, Moulds of Understanding, ▪ Pattern of Natural Philosophy 1977, Celestial Lancets: ▪ history and rationale of Acupuncture and Moxa 1979; Editor: Science, Religion and Reality 1925, Christianity and the Social Revolution 1935, Perspectives in Biochemistry 1936, Background to Modern Science 1938, Science in the Soviet Union 1942, The Teacher of Nations 1942, Hopkins and Biochemistry 1949, The Chemistry of Life 1970. *Leisure interests:* theology, philosophy, archaeology, railway engineering. *Address:* East Asian History of Science Library, 16 Brooklands Avenue, Cambridge (Office); 42 Grange Road, Cambridge, England (Home). *Telephone:* Cambridge 52183 and 311545; Cambridge 312211, Ext. 347 (College).

NEEF, Fritz, DR.RER.POL.; German industrial official and former government official; b. 10 Jan 1913, Dresden; s. of Paul Neef and Emma (née Metz) Neef; m. Ursula Melching; two s.; ed. Univs. of Leipzig, Innsbruck, Bari, Berlin, Prague, Tech. Hochschule in Dresden. Head of Dept. in ▪ commercial fed. 1935; mil. service 1939-41; Ministry of Econ. 1943; Cen. Econ. Admin., Minden and Frankfurt 1946-49; Fed. Ministry of Econ. 1949-68, Head of Mining Dept. 1962, Sec. of State 1963-68; Sec. of State, Ministry of Food, Agric. and Forestry 1968-69; Dir.-Gen. BDI (Fed. Assn. of German Industries) 1969-74, Pres. of Bd. 1974-77; mem. Advisory Bds., Haindl and Co., Banco Cattolin Vicenza. *Address:* 5253 Holz bei Lindlar, Federal Republic of Germany. *Telephone:* 02266 8364.

NEEL, James Van Gundia, PH.D., M.D.; American geneticist; b. 22 March 1915, Hamilton, Ohio; s. of Hiram A. Neel and Elizabeth Van Gundia; m. Priscilla Baxter 1943; one d. two s.; ed. Coll. of Wooster, Ohio, and Univ. of Rochester, N.Y.; Inst. of Zoology, Dartmouth 1939-41; Fellow in Zoology, Nat. Research Council 1941-42; Strong Memorial Hosp. 1944-46; Acting Dir. Field Studies, Atomic Bomb Casualty Comm., Nat. Research Council 1947-48; Assoc. Geneticist, Lab. of Vertebrate Biology, Asst. Prof. of Internal Medicine, Univ. of Mich. 1948-51; Geneticist, Inst. of Human Biology 1951-56; Chair. and Lee R. Dice Univ. Prof., Dept. of Human Genetics, Univ. of Mich. Medical School 1956-; Cutter Lecturer, Harvard Univ. 1956; mem. Nat. Acad. of Sciences, American Phil. Soc., Assn. of American Physicians, American Soc. of Human Genetics (Vice-Pres. 1952-53, Pres. 1953-54, Bd. Dir. 1968-70), American Acad. of Arts and Sciences, Inst. of Medicine (Nat. Acad. of Sciences); Dir. Centre Royaumont pour une Science de l'Homme; Consultant Nat. Research Council, WHO, Pan American Health Org., etc.; Lasker Award 1950, Modern Medicine Award 1960, Allan Award, American Soc. of Human Genetics 1965, Russell Award, Univ. of Mich. 1966, Nat. Medal of Science 1974. *Publications.* Human Heredity (with W. J. Schull) 1954, A Clinical, Pathological and Genetic Study of Multiple Neurofibromatoses (with F. W. Crowe and W. J. Schull) 1956, Changing Perspectives on the Genetic Effects of Radiation 1963, Effects of Inbreeding on Japanese Children (with W. J. Schull) 1965; Editor (with Crow) Proc. III Int. Congress Human Genetics. *Address:* University of Michigan, Department of Human Genetics, 1137 E. Catherine, Ann Arbor, Mich. 48104 (Office); 2235 Belmont, Ann Arbor, Mich. 48104, U.S.A. (Home). *Telephone:* 764-5490 (Office); 761-0224 (Home).

NEEL, Louis Boyd, O.C., C.B.E. M.A., M.R.C.S., L.R.C.P.; British musician; b. 19 July 1905, London; s. of Louis Neel and Ruby le Couteur; ed. R.N. Coll., Dartmouth, and Caius Coll., Cambridge; qualified and practised ▪ doctor; forsook medicine for music and founded the Boyd Neel Orchestra (of which he is Conductor) 1933; the orchestra appeared at the Salzburg Festival 1937; toured Portugal 1939; during Second World War returned to medical work; the

orchestra toured France, Australia and N.Z. 1947, Germany, Holland, Portugal 1948-49, France, Denmark, Norway, Sweden and Finland 1950, Italy, Germany, France 1951, Canada, America 1952; conducted first performance Glyndebourne 1934; conductor, Sadler's Wells Opera 1945; D'Oyly Carte London Seasons 1948-49; Edinburgh Festival 1948, 1951; Mayer Children's Concerts, London; Dean, Royal Conservatory of Music, Toronto 1953-71; formed Hart House Orchestra 1954, performed at Stratford, Ontario, Festival 1955, Brussels World Fair with Hart House Orchestra 1958, toured Canada with Hart House Orchestra 1958-60, conducted orchestras in New Zealand and Australia for ABC 1964; toured Sweden, Finland, Norway (Bergen Festival), Belgium and England with Hart House Orchestra, playing at Aldeburgh Festival 1966, and at expo 1967, Montreal 1967; World Tour 1971; Dir. Blue Mountain Summer School of Music, Collingwood, Ont.; Hon. R.A.M.; records for Deutsche Grammophon and Decca-London. *Publication:* The Story of [illegible] Orchestra 1950. *Leisure interests:* tennis, sailing. *Address:* c/o York Club, 135 St. George Street, Toronto M5R 2LB, Canada. *Telephone:* 964-2628.

NÉEL, Louis Eugène Félix; French scientist; b. 22 Nov. 1904, Lyon, Rhône; m. Hélène Hourticq 1931; [illegible] two d.; ed. Lycée du Parc, Lyons, Lycée Saint-Louis, Paris, and Ecole Normale Supérieure, Paris; Prof., Univ. of Strasbourg 1937-45, Grenoble 1945-76; Scientific Adviser to Navy 1952-; French Rep. to Scientific Cttee. of NATO; Pres. French Physical Soc. 1957; Pres. Int. Union of Pure and Applied Physics 1963-65; Pres. Inst. Nat. Polytechnique, Grenoble 1971-76; mem. Acad. of Sciences (Paris); Foreign [illegible] U.S.S.R. Acad. of Sciences, Royal Netherlands Acad., German Leopoldina Acad., Romanian Acad. of Sciences, Royal Soc. (U.K.), American Acad. of Arts and Sciences, Polish Acad. of Sciences; many hon. degrees; Prix Holweck 1952, Gold Medal (C.N.R.S.) 1965, Nobel Prize for Physics 1970; Croix de guerre 1940; Commandeur des Palmes académiques; Grand Croix, Légion d'honneur. *Publications:* over 200 works on various aspects of magnetism. *Leisure interests:* history, carpentry. *Address:* 15 [illegible] Marcel Allégot, 92190 Meudon, France. *Telephone:* (1) 534-36-51.

NE'EMAN, Yuval, DIP.ING., D.E.M., D.I.C., PH.D.; Israeli professor of physics; b. 14 May 1925, Tel-Aviv; s. of Gedalia and Zipora Ne'eman; [illegible] Dvora Rubinstein 1951; [illegible] d. one s.; ed. Herzliya High School, Tel-Aviv, Israel Inst. of Tech., Haifa, and London Univ.; Hagana volunteer, taking part in activities against British rule in Palestine 1946-47; Hydrodynamical Design Engineer 1946-47; Capt., Israeli Defence Forces (Infantry) 1948, Maj. 1949, Lieut.-Col. 1950; Dir. Defence Intelligence Div. 1955-57; Defence Attaché, London 1958-60; resigned from Israeli Defence Forces active service May 1960; took part in six day war June 1967; Scientific Dir. Israel Atomic Energy Establishment 1961-63; Research Assoc. Calif. Inst. of Tech., Pasadena 1963-64, Visiting Prof. of Theoretical Physics 1964-65; Prof. of Physics and Head of Dept. Tel-Aviv Univ. 1965-; Prof. of Physics and Dir. Centre for Particle Theory, Univ. of Texas (Austin) 1968-; Pollak Prof. of Theoretical Physics, Tel-Aviv Univ. 1968-; Vice-Pres. Tel-Aviv Univ. 1965-66, Pres. 1971-75; Adviser to Head of Mil. Intelligence 1973-74; Special Adviser to Israel Defence Ministry 1975-76; mem. Israel Atomic Energy Cttee. 1966-, Israel Nat. Acad. of Sciences 1966-; co-discoverer of Unitary Symmetry Theory; conceived basic field explaining compositeness of nuclear particles; Foreign Hon. mem. American Acad. Arts and Sciences, Hon. Life mem. New York Acad. of Sciences 1973, Foreign Assoc. Nat. Acad. of Sciences; Hon. D.Sc. (Israel Inst. of Tech.) 1966, (Yeshiva Univ., New York) 1972; Weizmann Prize for Sciences 1966, Rothschild Prize 1968, Israel Prize for Sciences 1969, Albert Einstein Medal and Prize for Physics 1970. *Publications:* The Eightfold Way (with M. Gell-Mann) 1964, Algebraic Theory of Particle Physics 1967, One Way to Unitary Symmetry, The Past Decade in Particle Theory (with E. C. G. Sudarshan) 1973; about 150 articles [illegible] physics, astrophysics and philosophy of science. *Leisure interests:* music, history, linguistics. *Address:* Tel-Aviv University, Tel-Aviv, Israel. *Telephone:* Tel-Aviv 410477.

NEF, John Ulric, PH.D., F.R.S.A.; American historian; b. 13 July 1899, Chicago, Ill.; s. of John Ulric and Louise B. Comstock Nef; m. 1st Elinor Castle 1921; m. 2nd Evelyn Stefansson 1964; ed. Harvard Univ. and Brookings Grad. School; Asst. Prof. of Econs., Swarthmore Coll. 1927-28, Asst. Prof. of Econs., Chicago Univ. 1929-31, Assoc. Prof. 1931-35, Assoc. Prof. of Econ. History 1935-36, Prof. 1936-50; Chair. Cttee. Social Thought 1945-64; Visiting Prof. Inst. d'Etudes Politiques, Paris 1949; temporary Prof. Coll. de France, Paris 1953; Wiles Lecturer, Univ. of Belfast 1956; Smith Lecturer, Univ. of St. Thomas 1961; Vice-Chair. American Council of Learned Socs. 1952-53; Chair. Center for Human Understanding 1958-68; Pres. John and Evelyn Nef Foundation 1966-; f. Cttee. on Social Thought, Univ. of Chicago; Fellow, World Acad. of Art and Science, World-Wide Acad. of Scholars; [illegible] Literary Soc. of Washington 1965-; Dr. h.c. (Paris, Strasbourg); Officier, Légion d'honneur, Order of the Phoenix (Greece). *Publications:* The Rise of the British Coal Industry (2 vols.) 1932, Industry and Government in France and England, 1540-1640 1940, The United States and Civilization 1942, The Universities Look for Unity 1943, La route de la guerre totale 1949, War and Human Progress 1950, Letters and Notes of Elinor Castle Nef, Vol. I 1953, La naissance de la civilisation industrielle et le monde contemporain 1954, Cultural Foundations of Industrial Civilisation 1958, Religion and the Study of Man 1961, A la recherche de la civilisation 1962, Bridges of Human Understanding 1964, Conquest of the Material World 1964, Towards World Community 1968, Search for Meaning (Autobiography of [illegible] Non-conformist) 1973. *Leisure interests:* swimming, walking, creating with wife [illegible] international art centre in Georgetown. *Address:* 2726 N Street, N.W., Washington, D.C. 20007, U.S.A. *Telephone:* 333-2983.

NEFF, William Duwayne, PH.D.; American research scientist and teacher; b. 27 Oct. 1912. Lomax, Ill.; [illegible] of Lyman Melvin Neff and Emma Mary (Jacobson) Neff; m. 1st Ernestine Anderson Neff 1937 (divorced 1960); m. 2nd Palmer Anderson Neff 1961; one s. [illegible] d.; ed. Univ. of Illinois and Univ. of Rochester; Research Assoc., Swarthmore Coll. 1940-42, Columbia Univ. and Univ. of Calif. Divs. of War Research 1942-46; Asst., Assoc. and Full Prof. of Psychology, Univ. of Chicago 1946-61, Prof. of Psychology and Physiology 1959-61; Scientific Liaison Officer, London Branch Office, Office of Naval Research 1953-54; Dir. of Psychophysiology Lab., Bolt, Beranek and Newman Inc. 1961-63; Prof. of Psychology, Indiana Univ. 1963-64, Research Prof. 1964-, Dir. Center for Neural Sciences 1965-; mem. Nat. Acad. of Sciences; Award of Beltone Inst. for Hearing Research 1969. *Publications:* Articles in scientific journals. *Leisure interest:* golf. *Address:* Center for Neural Sciences, Indiana University, Bloomington, Indiana 47401 (Office); 3505 Bradley Street, Bloomington, Indiana 47401, U.S.A. (Home). *Telephone:* 812-337-6063 (Office); 812-336-3489 (Home).

NEGAHBAN, Ezatollah, PH.D.; Iranian archaeologist; b. 1 March 1925; s. of Abdol Amir Negahban and Roghieh Dideban; m. Miriam Lois Miller 1955; five s.; ed. Teheran and Chicago Univs.; Assoc. Prof. Univ. of Teheran 1956-62, Prof. 1962, Founder and Dir. Univ. Inst. of Archaeology 1957, Head, Dept. Archaeology 1968-75, Dean Faculty of Letters and Humanities 1975; Prof. Univ. Chicago 1964; Technical Dir. Iranian Archaeological Service 1960-65; Tech. Adviser to Ministry of Culture 1965-79; Dir. Museum Iran Bastan 1966-68, Iranian Archaeological Assn. 1957-65; Sec.-Gen. Int. Congress, Iranian Art and Archaeology, Dir. 5th Congress; excavated at Mehranabad 1961, Marlik 1961-62, Haft Tepe 1966; Dir. Gazvin Plain Expedition (Zaghe, Qabrestan and Sagzabad) 1970; archaeological survey of N.E. Iran 1965, Mazandaran Highlands 1975; mem. German Archaeological Inst., Exec. Cttee. and Perm. Council, Congress of Pre- and Proto-History. *Publications:* The Buff Ware Sequence in Khuzistan 1954, Preliminary Report on the Marlik Excavation 1961-1962 1964, Archaeology of Iran 1973; and numerous excavation reports and articles in journals. *Leisure interests:* building and development. *Address:* c/o Faculty of Letters, University of Teheran, Iran.

NÈGRE, Louis-Pascal, L. EN D.; Mali banker and politician; b. 16 April 1928; ed. Univ. of Paris, Ecole Nat. d'Administration d'Outre-Mer; Tech. Counsellor at the Presidency 1961-63; Gov. Bank of Mali 1964-68; Minister of Finance 1966-69, of Finance and Commerce 1969-70; Pres. Council of Ministers UDEAO 1968-70; Pres. African Group, World Bank and IMF 1968-70; Vice-Pres. African Devt. Bank 1970-. *Address:* African Development Bank, B.P. 1387, Abidjan, Ivory Coast.

NÈGRE, Maurice; French journalist; b. 20 April 1901, Saint-Laurent-le-Minier (Gard); s. of Charles-Louis Nègre and Thérèse Laurent; m. Monique Goussot 1927; ed. Faculté de Droit, Paris; on editorial staff of Eclair, Journal, Matin, Ami du Peuple, successively 1921-31; Dir. Warsaw Office of Havas Agency 1931-34, Budapest Office 1934-38, Bucharest Office 1938-39; Dir. Information Service, French Embassy, Bucharest 1940; worked for Allies in Balkans 1940-42; played prominent part in French Resistance, founding clandestine news service "Supernap" 1942-44; arrested and sent to Buchenwald 1944, liberated 1945; Dir.-Gen. Agence France-Presse 1945-47 and 1949-54; foreign affairs commentator, Radiodiffusion Française 1947-49; Public Relations Consultant 1955-; Tech. Adviser, Société Ediradio 1964; Commdr. de la Légion d'honneur, Médaille de la Résistance, Croix de guerre (Belgium), Officier de la Couronne de Belgique and other awards. *Address:* 14 avenue du Général-Claverie, 75016 Paris, France.

NEGUIB, Gen. Mohammed; Egyptian army officer; b. 1901, Khartoum, Sudan; ed. Sudan Schools, Gordon Coll., Khartoum, Royal Mil. Acad. and Egyptian Univ., Cairo; commissioned in

Infantry 1917; served in Gen. Staff, Adjutant-Gen. and Q.M.-Gens'. Depts. during Second World War; Sub.-Gov. of Sinai and Gov. of Red Sea Provinces in Frontier Corps; Col. Commdg. 2nd Machine Gun Battalion; Brig., 2nd in commd. of Egyptian troops in Palestine and commdg. successively 1st, 2nd, 3rd, 4th and 10th Infantry Brigades during hostilities with Israel 1948; Dir.-Gen. Frontier Corps 1950, Dir.-Gen. Infantry 1951, C.-in-C. Egyptian Army 1952; Prime Minister, Minister for War and Marine, C.-in-C. of the Army and Mil. Gov. of Egypt 1952-53; Pres. of the Repub. of Egypt 1953-54. *Address:* Cairo, Egypt.

NEHRU, Braj Kumar, B.SC., B.SC.(ECON); Indian civil servant and Barrister-at-Law; b. 4 Sept. 1909, Allahabad; s. of Brijlal and Rameshwari Nehru; m. Magdalena Friedman 1935; three s.; ed. Allahabad Univ., London School of Econs., Balliol Coll., Oxford, Inner Temple, London; joined Indian Civil Service 1934; Asst. Commr. 1934-39; Under-Sec. Dept. of Educ., Health and Lands, Govt. of India 1939; [redacted] Indian Legis. Ass. 1939; Officer on special duty, Reserve Bank of India, Under-Sec. Finance Dept., Govt. of India 1940, Jt. Sec. 1947; Exec. Dir. IBRD 1949-54, 1958-62; Minister, Indian Embassy, Washington 1949-54; Sec. Dept. of Econ. Affairs, Ministry of Finance 1957-58, Commr.-Gen. for Econ. Affairs 1958-61; Amb. to U.S.A. 1961-68; Gov. of Assam and Nagaland 1968-73, of Manipur, Meghalaya and Tripura 1972-73; Chair. North-Eastern Council 1972-73; High Commr. to U.K. 1973-77; rep. Reparations Conf. 1945, Commonwealth Finance Ministers Conf., UN Gen. Ass. 1949-52, 1960, FAO Confs. 1949-50, Sterling Balances Confs. 1947-49, Bandung Conf. 1955; deputed to enquire into Australian Fed. Finance 1946; mem. UN Advisory Cttee. on Admin. and Budgetary Questions 1951-53; Adviser to Sudan Govt. 1955; mem. UN Investments Cttee. 1962-, Chair. 1977-; Fellow, L.S.E.; Hon. LL.D. (Mo. Valley Coll.), Hon. Litt.D. (Jacksonville Univ.). *Publications:* Speaking of India, Australian Federal Finance. *Leisure interests:* bridge, reading, conversation. *Address:* c/o Ministry of External Affairs, New Delhi, India.

NEIDLINGER, Gustav; German baritone singer; b. 21 March 1912; s. of Gustav Neidlinger and Margarete Wagner; m. Elisabeth Lisl 1936; two c.; ed. Humanistisches Gymnasium, Mainz, and Opernschule, Frankfurt/Main; has performed at Stadttheater, Mainz, Stadttheater, Plauen, Staatsoper, Hamburg, Staatsoper, Stuttgart, Bayreuth Festival, Deutsche Oper, Berlin, La Scala, Milan, Covent Garden, London, Grand Opera, Paris, Teatro La Fenice, Venice, Rome Opera and Opera S. Carlo, Naples; currently with Staatsoper, Stuttgart. *Address:* Württembergische Staatsoper, 7 Stuttgart, Federal Republic of Germany.

NEILAN, Edwin Peter; American banker; b. 24 Oct. 1905, Mason County, Mich.; s. Peter A. and Goldie (née Comstock) Neilan; m. Julia E. Motheral 1929; ed. Omaha Univ., Rice Univ., Texas Univ., Rutgers Graduate School of Banking, S. Texas School of Law; Securities Analyst, Houston Bank & Trust Co. 1928-33; Chief Trust Examiner Fed. Reserve Bank of Dallas 1933-36, New York 1936-37, Philadelphia 1937-40; Assoc. Trust Officer, Bank of Delaware 1940-42; U.S.N.R. 1942-46; Vice-Pres. and Sec. Bank of Delaware 1946-52, Exec. Vice-Pres. 1952-56, Pres. 1956-69, Chair. of Bd. 1959-71; Pres. Delaware Bankers 1952; Chair. Bd., Greater Wilmington Devt. Council 1961-63; Pres. United Fund Northern Delaware 1961-63; Vice-Pres. Chamber of Commerce of U.S. 1962-63, Pres. 1963-64, Chair. of Bd. 1964-65; Vice-Pres. State Bank Div., American Bankers Assn. 1962-64, Pres. 1964-65; American Vice-Chair. Finance and Admin. Cttee. 1966-75; Vice-Pres. 50th Anniversary Conf. ILO 1969; Vice-Chair. Int. Org. of Employers 1965-69, Pres. 1970-71, mem. Exec. Cttee. 1966-75; mem. BIAC (U.S.A.) to OECD 1967-70. *Leisure interests:* swimming, travel. *Address:* 62 Town House Lane, Corpus Christi, Tex. 78412, U.S.A.

NEILD, Robert Ralph; British economist; b. 10 Sept. 1924, Peterborough; s. of Ralph and Josephine Neild; m. Elizabeth W. Griffiths; [redacted] s. four d.; ed. Charterhouse, and Trinity Coll., Cambridge; R.A.F. 1943-44, Operational Research, R.A.F., 1944-45; Secr., UN Econ. Comm. for Europe, Geneva 1947-51; Econ. Section, Cabinet Office (later Treasury) 1951-56; Lecturer in Econs. and Fellow of Trinity Coll., Cambridge 1956-58; Nat. Inst. of Econ. and Social Research 1958-64; Econ. Adviser to Treasury 1964-67; mem. Fulton Cttee. on the Civil Service 1966-68; Dir. Stockholm Int. Peace Research Inst. 1967-71, mem. Governing Bd. 1972-; mem. Governing Body Queen Elizabeth Coll., Oxford 1978-; Prof. of Econs., Trinity Coll., Cambridge 1971-. *Publications:* Pricing and Employment in the Trade Cycle 1964, The Measurement and Reform of Budgetary Policy (with T. S. Ward) 1978. *Address:* 5 Cranmer Road, Cambridge, England. *Telephone:* Cambridge 56902.

NEILL, Rt. Rev. Stephen Charles, M.A., F.B.A.; British ecclesiastic; b. 31 Dec. 1900, Edinburgh, Scotland; s. of Rev. Charles Neill and Dr. Margaret P. Monro; ed. Dean Close School, and Trinity Coll., Cambridge; Fellow, Trinity Coll., Cambridge 1924-28; Missionary in Diocese of Tinnevelly 1924-27 and 1928-30; Warden, Bishop's Theological Coll., Nazareth, S. India 1930-39, Examining Chaplain to Bishop of Tinnevelly 1929-39; Bishop of Tinnevelly 1939-45; Chaplain, Trinity Coll. Cambridge, and Lecturer in Theology 1945-47; Select Preacher, Univ. of Oxford 1945, Univ. of Cambridge 1948, 1973; Hulsean Lecturer, Cambridge 1946-47; Asst. Bishop to the Archbishop of Canterbury 1947-50; Co-Dir. Study Dept. World Council of Churches 1946-48, Assoc. Gen. Sec. 1948-51; Gen. Editor, World Christian Books 1952-62, Dir. 1962-72; Visiting Prof. of Missions, Univ. of Hamburg 1956-57, Prof. 1962-67; Visiting Prof. of Religions, Univ. of Nairobi, Kenya 1968, Prof. of Phil. and Religious Studies 1969-73; Visiting Prof. of Religion, Univ. of Durban Westville 1975; Visiting Prof. of Ecumenical Theology, Union Seminary, New York 1979; Bampton Lecturer, Univ. of Oxford 1964; Select Preacher, Univ. of Oxford 1977; Hon. D.D. (Trinity Coll., Toronto, Culver-Stockton, Acadia Univ., Nova Scotia and Glasgow); Hon. Th.D. (Hamburg and Uppsala); Hon. Litt.D. (St. Paul's Univ., Tokyo). *Publications:* How Readest Thou? 1925, Out of Bondage 1928, Builders of the Indian Church 1934, Beliefs 1938, Foundation Beliefs 1942, The Challenge of Jesus Christ 1944, Christ, His Church and His World 1948, The Cross over Asia 1948, Fulfil Thy Ministry 1952, The Christian Society 1953, Christian Partnership 1953, Towards Church Union 1937-52, 1953, Under Three Flags 1954, The Christian's God 1954, Christian Faith Today 1955, The Christian Character 1955, Who is Jesus Christ? 1956, The Unfinished Task 1957, Anglicanism 1958, Paul to the Galatians 1958, A Genuinely Human Existence 1959, Christian Holiness 1960, Brothers of the Faith: the Ecumenical Movement 1919-1960 1960, What is Man? 1960, Christian Faith and Other Faiths 1961, The Eternal Dimension 1963, Christian Missions 1964, The Interpretation of the New Testament 1964, Colonialism and Christian Missions 1966, The Church and Christian Union 1968, The Story of Christianity of India and Pakistan 1970, Call to Mission 1970, Bible Words and Christian Meanings 1971, Bhakti Hindu and Christian 1974, Salvation Tomorrow 1976, Jesus Through Many Eyes 1976. *Leisure interests:* Mountain walking, listening to the young. *Address:* Wyclif Hall, Oxford, England. *Telephone:* Oxford 53213.

NEILSON, Hon. William Arthur; Australian politician; b. 27 Aug. 1925, Hobart; ed. Ogilvie Commercial High School; mem. Tasmanian House of Ass. 1946-77; Labor Party Whip 1946-55; Tasmania State Minister for Tourists and Immigration and for Forests 1956-58; Attorney-Gen. and Minister of Educ. 1958; Treas. and Minister of Educ. 1959; Minister of Educ. 1959-69, 1972-74; Attorney-Gen. 1974-75; Deputy Premier, Minister for the Environment, Minister administering Police Dept. and the Licensing Act 1974-75; Premier and Treas. 1975-77; Agent-Gen. for Tasmania in London 1978-; Pres. Tasmanian Section of Australian Labor Party 1968-69. *Address:* Agent-General for Tasmania, 458 Strand, London, W.C.2, England.

NEIRINCK, José D., DR. SC.S.; Belgian fmr. international civil servant; b. 1920; m. H. de Meulemeester; three d.; ed. Université libre de Bruxelles, Rijksuniversiteit te Gent; Exec. Asst. to Deputy Prime Minister, Minister of Econ., Minister of Social Affairs and several posts as Govt. Official 1954-63; Dir.-Gen. at EEC 1963-68, Hon. Dir.-Gen. 1968-; fmr. Dir.-Gen. Belgian Cement Makers' Fed.; rep. of Liaison Cttee. of Cement Industry in EEC; mem. of various nat. and int. orgs. for cement research and industrialization of building industry; Officer Order of Crown, Order of Léopold, commemoration medals Armed Resistance and World War II. *Publications:* on social-economic matters; English works incl. The Rome Treaty Social Policy and EEC Applied Labour Economics 1969, Social Policy of the European Economic Community 1970. *Address:* Belgian Cement Makers' Federation, 46 rue César Franck, 1050 Brussels (Office); Maarschalklaan 16, Ukkel, 1180 Brussels, Belgium (Home). *Telephone:* (02) 649-98-50 (Office).

NEÏZVESTNY, Ernst Iosifovich; Soviet artist and sculptor; b. 9 April 1925, Sverdlovsk; ed. V. I. Surikov State Inst. of Arts (M. G. Manizer's studio); Soviet Army 1942-45; sculptor at studios of U.S.S.R. Agricultural Exhbn. (now Econ. Achievements of U.S.S.R. Exhbn.) 1953-54; mem. Artists' Union of U.S.S.R. 1955-57; granted permission to emigrate to Israel 1976. *Main works:* Kremlin Builder, First Wings, The Youth, Mother, series: War—is . . .; Robots and Semi-robots, Great Mistakes, etc.

NEKRASOV, Viktor Platonovich; Soviet writer; b. 17 June 1911, Kiev; ed. Inst. of Eng. and Architecture, Kiev; fmr. architectural student; Actor and Set Designer, Kiev, Vladivostok, Kirov, Rostov-on-Don 1937-41; Army Officer (Engineers) 1941-44; journalist; writer 1947-; expelled to Kiev March 1974; Stalin Prize for Literature 1947; Badge of Honour, Red Star. *Publications:* In the

Trenches of Stalingrad (novel) 1946 (English trans. 1975), The Native Town (novel) 1954, First Journey (essays on a visit to Italy) 1958, Vassia Konakoff (short stories) 1960, Kira Georgievna (novel) 1962, Both Sides of the Ocean (essays on a visit to Italy and U.S.A.) 1962, A Month in France 1965, Distance of 12,000 Kilometres (stories about Kamchatka) 1965, Travels in Different Measurements 1967, Life and Letters 1971, Epilogue to Bulgakov's "The White Guard" 1973, Notes of an Idler 1976.

NELISSEN, Roelof J.; Netherlands banker; b. 4 April 1931, Hoofdplaat, Zeeland province; m.; three s. one d.; ed. grammar school at Dongen and Faculty of Law, Catholic Univ. of Nijmegen; various posts in employers' asscns., Amsterdam and The Hague 1956-; Sec.-Gen. Netherlands Catholic Employers' Assn. June 1962, Fed. of Catholic and Protestant Employers' Asscns. Sept. 1968; mem. Second Chamber, States-Gen. (Parl.) June 1963-; Vice-Chair. Parliamentary Catholic People's Party; deputy mem. Council of Europe, Council of WEU; Minister of Econ. Affairs 1970-71; First Deputy Prime Minister, Minister of Finance 1971-73; mem. Bd. Man. Dirs. Amsterdam-Rotterdam Bank N.V. 1974-79, Vice-Chair. March 1979-. *Address:* Amro Bank, Herengracht 595, Amsterdam, Netherlands

NELLEMOSE, Knud; Danish sculptor; b. 12 March 1908, Copenhagen; m. Pia Bendix 1950; three s.; ed. Royal Acad. of Art, Copenhagen; first exhbn. of sculpture 1931; mem. State Art Foundation 1958-64; awarded Eckersberg Medal 1944, Kai Nielsen Bequest 1947, Carlsberg Travelling Scholarship 1947-48, Thorvaldson Medal 1968; Knight of the Order Dannebrog; *works include:* busts of Their Majesties King Frederik, Queen Ingrid and Queen Margrethe II of Denmark; Statue of Søren Kierkegaard; works represented in the State Gallery of Copenhagen and in other Danish Museums, Nat. Museums of Stockholm and Oslo, Auschwitz, Poland and include Group of Wrestlers and Young Man with Discus and a marble bust of Hans Andersen for his 150th anniversary celebrations; represented at Venice Biennale 1950, and other int. exhbns. *Address:* Mathilde Fibigersvej V.3,2000 Copenhagen F, Denmark.

NELSON, Gaylord Anton, LL.B.; American lawyer and politician; b. 4 June 1916; ed. Clear Lake High School (Polk County, Wis.), San José State Coll., Calif., and Wisconsin Univ. Law School; Practising Attorney, Madison, Wis. 1946-58; Wisconsin State Senator 1948-58; Gov. of Wisconsin 1958-62; U.S. Senator from Wisconsin 1963-; army service 1942-46; Democrat. *Address:* c/o Senate Office Building, Washington, D.C. 20510 (Office); 618 Bordner Drive, Madison, Wisconsin 53705, U.S.A. (Home).

NELSON OF STAFFORD, Baron, succeeded to title 1962; **Henry George Nelson,** M.A., C.ENG., F.I.C.E., HON. F.I.MECH.E., F.I.E.E., F.R.AE.S.; British industrialist; b. 2 Jan. 1917, Manchester; s. of 1st Baron Nelson of Stafford and Florence M. Howe; m. Pamela R. Bird 1940; two s. two d.; ed. Oundle and King's Coll., Cambridge; with English Electric Co. Ltd. 1939-42; Man. Dir. D. Napier & Son Ltd. 1942-49; Exec. Dir. Marconi's Wireless Telegraph Co. Ltd. 1946-58; Deputy Man. Dir. English Electric Co. Ltd. 1949-56, Man. Dir. 1956-62, Chair. and Chief Exec. 1962-68; Chair. The Gen. Electric Co. Ltd. 1968-; Dir. Int. Nickel of Canada, London Bd. of Advice to Nat. Bank of Australasia; Jt. Chair. Babcock & Wilcox & Taylor Woodrow Atomic Power Construction Co. Ltd.; Chair. Royal Worcester Ltd., Dir. Bank of England 1961-; Jt. Deputy Chair. British Aircraft Corpn. 1960-77; mem. Minister of Technology's Advisory Council 1964-70; Pres. ORGALIME (Organisme des Liaison des Industries Métallique Européennes) 1966-70; Pres. Inst.E.E. 1970-71, Sino-British Trade Council 1973-; mem. many other councils and cttees.; Fellow Inst. of Eng.; Hon. D.Sc (Aston, Cranfield and Keele), Hon. LL.D. (Strathclyde). *Leisure interests:* shooting, tennis, skiing. *Address:* 8 Carlton Lodge, 37 Lowndes Street, London, SW1X 9HX; 1 Stanhope Gate, London, W1A 1EH, England. *Telephone:* 01 493-8484 (Office).

NĚMEC, Jaroslav, D.SC.; Czechoslovak engineer and metallurgist; b. 15 March 1921, Horaždovice, Klatovy District; s. of Karèl Němec and Bohuslava Němcorá; m. Zděnka Němcová; ed. Eng. Faculty, Tech. Univ. of Prague (ČVUT); design engineer 1942-45; Dir. of Research and Devt., ČKD Sokolovo 1945-53; Lecturer, ČVUT 1953-60; Prof., Coll. of Transport (VŠD) 1955-, Deputy Rector 1955-59; Prof., Head of Materials Dept. and Dept. of Specialization, Faculty of Nuclear and Physical Eng., ČVUT 1960-, Deputy Dean 1967-74, Deputy Rector 1973-; Corresp. mem. Czechoslovak Acad. of Sciences (ČSAV) 1972-75, mem. ČSAV 1975-; mem. Czechoslovak Atomic Comm.; Expert Adviser, Skoda Works, ČKD and others; mem. various foreign scientific and eng. socs.; Kaplan Medal 1958, Klement Gottwald State Prize 1965, 1974, Felber Medal 1971, Křížík Medal 1976. *Publications:* over 160 original papers on mechanics, elasticity and strength; books include: Strength of Pressure Vessels under Different Operational Conditions, Toughness and Strength of Steel Parts, Failure of Strength of Plastics (with Acad. Serensen, Moscow), Shape and Strength of Metal Bodies (with Prof. Puchner), New Methods of Calculations of Rigidity and Strength of Machines (with Prof. Valeuta), The Problem of Nuclear Equipment, with Special Reference to Reliability and Safety; founded a school of scientific work in the field of limit states of toughness and strength of bodies and in the field of general fracture techniques. *Address:* Technical University of Prague (ČVUT), Prague 2, Horská 4 (Office); Prague 7, Letohradská 60, Czechoslovakia (Home).

NEMEROV, Howard; American writer and teacher; b. 1 March 1920, New York; s. of David and Gertrude (Russek) Nemerov; m. Margaret Russell 1944; three s.; ed. Fieldston School and Harvard Coll.; Royal Canadian Air Force, U.S.A.F., attached R.A.F. Coastal Command 1941-45; Instructor in English, Hamilton Coll., Clinton, N.Y. 1946-48; mem. Faculty of Literature, Bennington Coll. 1948-66; Prof. Brandeis Univ.; Visiting lecturer, Univ. of Minnesota 1958-59; Writer in residence, Hollins Coll. 1962-63; Consultant in Poetry, Library of Congress, Washington, D.C. 1963-64; Fannie Hurst Prof. Creative Literature Washington Univ., St. Louis 1969, Edward Mallinckrodt Distinguished Univ. Prof. 1976-; Chancellor, Acad. American Poets 1976-; Fellow, American Acad. of Arts and Sciences; num. American Acad. Arts and Letters; Hon. degree (Lawrence Univ.) 1964, (Tufts Univ.) 1966, (Washington and Lee Univ.) 1976; several awards. *Publications:* The Image and the Law 1947, The Melodramatists 1949, Guide to the Ruins 1950, Federigo 1954, The Salt Garden 1955, The Homecoming Game 1957, Mirrors and Windows 1958, A Commodity of Dreams and Other Stories 1959, New and Selected Poems 1960, The Next Room of the Dream 1962, Essays on Poetry and Fiction 1963, Journal of the Fictive Life 1965, The Blue Swallows (poems) 1967, Stories, Fables and Other Diversions 1971, Reflexions on Poetry and Poetics 1972, Gnomes and Occasions (poems) 1973, The Western Approaches, Poems 1973-75, Figures of Thought 1977 (essays). *Address:* Washington University, St. Louis, Mo. (Office); 6970 Cornell Avenue, St. Louis, Mo. 63130, U.S.A. (Home).

NEMERY, Gen. Jaafar Mohammed al-; Sudanese army officer and political leader; b. 1 Jan. 1930, Omdurman; ed. Sudan Military Coll.; fmr. Commdr. Khartoum garrison; campaigns against rebels in Southern Sudan; placed under arrest on suspicion of plotting to overthrow the government; led successful mil. coup May 1969; promoted from Col. to Maj.-Gen. May 1969; Chair. Revolutionary Command Council (RCC) 1969-71, C.-in-C. of Armed Forces 1969-73; Minister of Defence May-June 1969, 1972-73, 1974-76; Prime Minister 1969-76, Sept. 1977-; Minister of Foreign Affairs 1970-71, of Planning 1971-72, of Finance 1977-78; Pres. of Sudan Oct. 1971-; Pres. Political Bureau, Sec.-Gen. Sudanese Socialist Union 1971-76; Pres. of OAU 1978-79. *Address:* Office of the President, Khartoum, Sudan.

NEMES, Dezsö; Hungarian politician and historian; b. 6 Sept. 1908, Löcse (now Levoca in Czechoslovakia); ed. University; joined the CP 1926; imprisoned 1928-31; Sec. Hungarian Trades Union Council 1945-58; Dept. Head, Ministry of Culture 1950-53; Dir. Szikra (Publrs.) 1953-56; Editor-in-Chief Népszabadság (daily newspaper) 1957-61, 1977-; mem. Cen. Cttee., Hungarian Socialist Workers' Party, Alt. mem., Political Cttee. 1957-59, mem. Political Cttee. 1959-, Sec. Cen. Cttee. 1961-65; Head of Directorate, Inst. for the Research of Party History, Hungarian Acad. of Sciences 1965-66; Head of Directorate, Party Acad. 1967-75, Rector 1975-77; Kossuth Prize, State Prize 1975; Decoration of Liberty (silver), People's Econ. Decoration (4th degree); Order of Labour Medal; Order of Hungarian People's Repub. 1978, Order of October Revolution (U.S.S.R.). *Publications:* International Labour Movement 1949, History of the General Worker Society 1868-1873 1952, Documents of the History of the Counter-Revolution 1-3, 1953-59, Liberation of Hungary 1955, History of the Counter-Revolution in Hungary in 1920-1921 1962, The Foreign Policy of the Bethlen Government 1964, History of the Hungarian Revolutionary Working Class (3 vols.) 1970, Lenin With Us 1970, About the History of the Hungarian Labour Movement 1974, On the Question of Fascism 1975. *Leisure interests:* history, reading. *Address:* Népszabadság editorial office, Budapest VIII, Blaha Lujza ter 3, Hungary. *Telephone:* 343-100.

NÉMETH, Károly; Hungarian politician; b. 14 Dec. 1922, Páka, County Zala; ed. Party Acad.; fmr. meat industry worker, joined CP 1945; First Sec. County Csongrád Party Cttee. 1954-59; Sec. Cen. Cttee., Head Party Cen. Cttee. Dept. of Agric. 1960-65; First Sec., Budapest Party Cttee., Hungarian Socialist Workers' Party 1965-74, Sec. Cen. Cttee. HSWP 1974-; mem. Political Cttee., HSWP, mem. 1970-, Head of Political Econ. Bd. attached to HSWP

Cen. Cttee. 1975-78; mem. of Pres. Council; M.P. 1967-. *Publication:* Tettekkel-felelösséggel (Acts-Responsibilities) 1974. *Leisure interests:* music, reading, watching sports, football, cinema, angling, wild-game shooting. *Address:* Hungarian Socialist Workers' Party, H-1387 Budapest, Széchenyi rakpart 19, Hungary.

NENADOVIĆ, Miroslav, C.ENG., D. ès SC.; Yugoslav professor of aeronautics; b. 31 March 1904, Belgrade; s. of Bogosav and Zorka Nenadović; m. Milka Nenadović; ed. Univ. of Belgrade, Univ. of Paris; Institut Aérotechnique de St.-Cyr, France; Prof. of Aerotech. Eng., Univ. of Belgrade 1937, Dean of Mech. Eng. Faculty 1953-59; founder, Aerotech. Inst. (ATI) 1940, of Mech. Eng. Inst. 1945; Dir. ATI 1946-74; Pres. Yugoslav Aeronautics Soc.; Chair. Cttee. for Astronautics, Serbian Acad. of Sciences and Arts (SANU); mem. SANU, Int. Acad. of Astronautics, Royal Aeronautical Soc., American Inst. of Aeronautics and Astronautics, Assen. Aéronautique et Astronautique de France; Order of Labour with Flag, Univ. Award for Science, Belgrade Prize for Science, various medals. *Publications:* eight books in Serbo-Croat and many papers on aerodynamic design and applied mechanics. *Address:* Aerotehnički institut (ATI), 27 Marta 80, 11000 Belgrade (Office); Cara Haili Selasija 5, 11000 Belgrade, Yugoslavia (Home).

NENNI, Pietro; Italian journalist and politician; b. 9 Feb. 1891; Socialist; imprisoned (with Mussolini) 1911 for participating in riots against Italo-Turkish war; Co-editor with Carlo Rosselli Il quarto stato; Paris Corresp., later Editor Avanti until its suppression 1926; emigrated to France 1926; with Randolfo Pacciardi, Political Commissar of Garibaldi Brigade in Spain; arrested in Vichy, France and sent to Italy, where imprisoned; released 1943; Sec.-Gen. Italian Socialist Party Aug. 1944-63; Vice-Pres. Council of Ministers in Parri Cabt. 1945; Vice-Premier and Minister of Constituent Assembly in De Gasperi Cabinet 1945-46; Minister of Foreign Affairs 1946-47, 1968-69; Deputy Prime Minister 1963-68; Pres. Partito Socialista Italiano, also Pres. Econ. Cttee., PSI. *Address:* Partito Socialista Italiano, 476 Via del Corso, 00186 Rome, Italy.

NEPOROZHNY, Pyotr Stepanovich, D.SC.(ENG.); Soviet engineer and politician; b. 13 July 1910; ed. Leningrad Water Transport Engineering Inst.; power engineer 1935-; mem. CPSU 1940-; fmr. engineer on hydro-technical projects, Northern U.S.S.R., construction of hydro-electric stations, Ukraine; fmr. Vice-Chair. Council of Ministers of Ukrainian S.S.R.; Chair. Ukraine Bldg. Cttee.; First Deputy Minister of Electric Power Station Construction (U.S.S.R.) 1959-62, Minister of Electrical Power Devt. and Electrification 1962-63; Chair. State Production Cttee. on Electrical Power Devt. and Electrification 1963-65; Minister of Electric Power Devt. and Electrification 1965-; Cand. mem. Cen. Cttee. of CPSU 1966-71, mem. 1971-; Deputy to U.S.S.R. Supreme Soviet; Order of Lenin (three times), and other decorations. *Publications:* On the Experience of Constructing Hydroelectric Power Stations on Dams, Vol. I Concrete Work 1954, Vol. II Earth and Specialized Hydrotechnical Work 1955, The Erection of Complex Concrete and Reinforced Concrete Hydrotechnical Installations 1958, Electrical Power Development and Construction 1965. *Address:* Ministry of Electric Power Development and Electrification of the U.S.S.R., 7 Kitaisky proezd, Moscow, U.S.S.R. (Office).

NEPOTE, Jean; French police official (retd.); b. 24 Jan. 1915; ed. Lycée Corneille, Rouen and Univ. de Lyon; public service 1935-; Commr. of Police, Sûreté Nationale 1941; Asst. to Sec.-Gen., INTERPOL (Int. Police Org.) 1946-63, Sec.-Gen. of INTERPOL 1963-78; Officier, Légion d'honneur, Croix de guerre. *Address:* 26 rue Armengaud, 92 Saint-Cloud, Hauts de Seine, France.

NERÉE TOT BABBERICH, Marie Frederik Frans Antoon de, DR.IUR.; Netherlands and international civil servant; b. [redacted] Jan. 1915; m. Johanna Baroness de Vos van Steenvijk; three s. three d.; ed. Klein Coll., Groot Coll. (Roermond), Leiden Univ.; Official at Cour des Comptes 1938, Ministry of Econ. Affairs 1940; Jt. Sec.-Gen. States Gen. (Second Chamber), The Hague 1945; Sec.-Gen. E.C.S.C. Common Ass. 1952-58, European Parl. 1958-61; political prisoner 1942-44; mil. service (major of reserve) 1944-45; lecturer at Saarbrücken Univ. 1954; Deputy Commr.-Gen. Int. Exhbn., Montreal; Dir. several cos.; mem. provincial states Gelderland; Commdr., Order of Merit of Italian Repub., Ordre de Léopold II, Ordre de la Couronne de Chêne, Officer, Order of Orange-Nassau. *Publications:* On Netherlands public law, and political subjects. *Leisure interests:* literature, bible study (apocryphal texts), shooting, travel. *Address:* "Camphuysen", Babberich; Roellstraat 3, Arnhem, Netherlands.

NERMAN, Einar; Swedish artist; b. 6 Oct. 1888; ed. Norrköping, Stockholm, and under Matisse, Paris; Cartoonist various European and American journals, including The Tattler, The Sketch, Die Dame, Strix, Thalia, The New Yorker Vogue, La Vie Parisienne; portrait painter and decorative artist; composer music for Swedish nursery rhymes, children's musicals and songs and Swedish songs; exhibited London 1925 and 1927, New York 1928; went to New York 1939; working there [redacted] portrait painter, cartoonist, illustrator of children's papers; illustrated The Goose Girl, New York 1929, Selma Lagerlöf's Jerusalem 1930, En saga om en saga 1935, A Child's First Book 1945, Let's Play 1946, Fairy Tales from the North 1946, Carikature for The Studio, New York 1946, Celibriteter och lackerheter 1953, 100 gubbar 1958, Darling of the Gods (autobiography) 1963, Middagena pa Traneholm (novel) 1968, Livet en dröm (autobiog.); composed music for children's musical Pang-Pang 1971. *Address:* Hersbyholms Gård, Lidingö, Sweden.

NESMEYANOV, Aleksandr Nikolayevich, DR. CHEM. SCI.; Soviet organic chemist; b. [redacted] Sept. 1899, Moscow; ed. Moscow Univ.; Research Asst. 1922, Prof. 1935, Rector of Moscow Univ. 1948-51; elected corresp. mem. U.S.S.R. Acad. of Sciences 1939, Academician 1943-, Pres. 1951-61, mem. of Presidium; Dir. Inst. of Organic Chem. 1939-54, and Inst. of Elementary Organic Compounds 1954-; Deputy to the Supreme Soviet of the U.S.S.R. 1951-61, Supreme Soviet of the R.S.F.S.R. 1947-50; fmr. Chair. Lenin Prize Cttee. (Science and Inventions); Hon. mem. Acads. of Science of Germany, New York, Bulgaria, Romania, Hungary, Czechoslovakia, Poland; Scottish Royal Soc.; Foreign mem. Royal Soc. 1961, New York Acad. of Arts and Sciences; Dr. h.c. (Paris, Jena, Calcutta); awarded State Prize 1943, Lenin Prize 1966, Hero of Socialist Labour 1969, Order of Lenin (six times), Order of the Red Banner of Labour, and other decorations. *Publications:* Selected Works 1959, Elementary Organic Chemistry 1970, Research in Organic Chemistry 1971, The Origins of Organic Chemistry (2 vols.) 1969-70 (co-author). *Address:* Institute of Elementary Organic Compounds, Academy of Sciences of U.S.S.R., 14 Ulitsa Vavilova, Moscow, U.S.S.R.

NETHERLANDS, H.R.H. the Prince of the (Bernhard Leopold Frederik Everhard Julius Coert Karel Godfried Pieter), Prince [redacted] Lippe-Biesterfeld, G.C.B., G.C.V.O., G.B.E.; b. 29 June 1911, Germany; s. of H.S.H. the late Prince Bernhard zur Lippe and Princess Armgard, Baroness von Sierstorpff-Cramm; m. Juliana Louise Emma Marie Wilhelmina, *q.v.*, Queen of the Netherlands 1937; four d.; ed. Gymnasiums at Zuellichau and Berlin and Univs. of Lausanne, Munich and Berlin; assumed Netherlands nationality 1936; studied at Netherlands Staff Coll.; apptd. mem. State Council; after German invasion of Holland, May 1940, evacuated family to England and returned to Continent with army until fall of France; returned to England and qualified [redacted] pilot 1941; appointed Hon. Air Cdre. R.A.F.V.R. 1941; subsequently Chief Netherlands Liaison Officer with British Forces, Col. late Major-Gen. and Chief of Netherlands Mission to War Office; visited war fronts in N. Africa and Normandy; maintained liaison throughout the [redacted] between Netherlands Underground and the Allied Govts.; appointed Supreme Commdr. (Lieut.-Gen.) Netherlands Armed Forces 1944, and played important part in liberation of Netherlands; decorated for his services in this operation by H.M. Queen Wilhelmina (M.W.O.) and H.M. King George VI (G.B.E.); subsequently resigned from office of Supreme Commdr. 1945; apptd. Chair. Jt. Chiefs of Staff (retd. 1976); mem. Council for Mil. Affairs of the Realm, and mem. Jt. Defence, Army, Admiralty and Air Force Councils; Insp.-Gen. of Armed Forces; Adm., Gen. R. Netherlands A.F., Gen. (Army) 1954-76; Hon. Air Marshal R.A.F. 1964; Hon. Cdre. R.N.Z.A.F. 1973; mem. Bd. of the Netherlands Trade and Industries Fair; has greatly contributed to post-war expansion of Netherlands trade; founder and regent Prince Bernhard Fund for the Advancement of Arts and Sciences in the Netherlands; Chair. European Cultural Foundation; Regent Praemium Erasmianum Foundation; Pres. World Wildlife Fund, Netherlands; Hon. mem. Royal Aeronautical Soc., Royal Inst. Naval Architects, Aeromedical Soc., Royal Spanish Acad.; Hon. degrees (Utrecht) 1946, (Delft) 1951, (Montreal) 1958, (British Columbia) 1958, (Amsterdam) 1965, (Michigan) 1965, (Basel) 1971; many decorations. *Leisure interests:* golf, skiing, filming, photography. *Address:* Soestdijk Palace, Baarn, Netherlands.

NETHERTHORPE, Baron, cr. 1959, of Anston; **James Turner,** Kt., B.SC.(AGRIC.); British agriculturist; b. 6 Jan. 1908; s. of the late Albert E. M. Turner and Lucy Helliwell; m. Margaret L. Mattock 1935; three s.; ed. Leeds Univ.; engaged in farming since 1928; Chair. Notts. County Branch Nat. Farmers' Union 1939, 1940 and 1941; Notts. del. to Nat. Farmers' Union Council 1942-44; Pres. Nat. Farmers' Union 1945-60; leader U.K. del. to Dominions and U.S.A. 1944 and 1945; Dir. Fisons Ltd. (retd. May 1978), Chair. 1961-73; Dir. Abbey Nat. Bldg. Soc., J. H. Fenner and Co. (Holdings) Ltd., Rank Foundation, Rank Group Holdings Ltd., F. D. & R. Holdings Ltd., Unigate Ltd. (Vice-Chair. Jan. 1976-); Pres.

Int. Fed. of Agricultural Producers 1946-48; mem. Council of Royal Agricultural Soc. of England; Pres. Royal Agricultural Soc. 1965; mem. British Productivity Council. *Leisure interests:* shooting, golf. *Address:* Hadley Hurst, Hadley Common, Barnet, Herts., England.

NETO, (Antônio) Agostinho, M.D.; Angolan physician, poet and politician; b. 17 Sept. 1922, Icole-e-Bengo; s. of Agostinho Pedro Neto and Maria de Silva Neto; m. Maria Eugenia da Silva 1958; one s. two d.; ed. Protestant School, Luanda, and Univs. of Coimbra and Lisbon; Colonial Health Service, imprisoned three times 1952-60; mem. Movimento Popular de Libertação de Angola (MPLA) 1957-77, Pres. 1962-77; qualified as Doctor 1959; imprisoned Cape Verde Islands, later Portugal 1960-62, escaped July 1962; led MPLA guerrilla campaign against Portuguese rule 1962-74, also campaign against rival nationalist movements 1974; Pres. People's Repub. of Angola Nov. 1975-; Pres. restructured Movimento Popular de Libertação de Angola—Partido de Trabalho (MPLA—PT) Dec. 1977-; Lenin Peace Prize 1977. *Publications:* Colectanea de Poemas 1961, Dry Eyes (poems). *Address:* Ofício do Presidente, Luanda, Angola.

NETTO, Carlos Monteiro do Amaral; Portuguese politician and civil engineer; b. 31 Dec. 1908, Lisbon; s. of Carlos Pereira do Amaral Netto and Ana Vaz Monteiro do Amaral Netto; m. Maria Raquel Almeida Brandão Abecassis; two s.; ed. Instituto Superior Técnico, Lisbon; Pres., Town Council of Chamusca 1936-59; Pres. Gen. Ass., Casa do Povo, Chamusca 1941-; Chief, Dept. of Works, Ministry of Public Works 1943-46; Pres. District Council of Santarém 1960-69; Deputy to Nat. Ass. 1949-74; Pres. Nat. Ass. 1969-74; Grã-Cruz da Ordem de Cristo. *Leisure interests:* reading, travel. *Address:* Rua da Estrela 31, Lisbon 2; Rua Direita de S. Pedro 45, Chamusca, Portugal. *Telephone:* 66-66-19/66-93-64; 76396 (Chamusca).

NEUBERGER, Albert, C.B.E., M.D., PH.D., F.R.C.P., F.C. PATH., F.R.S.; British professor of chemical pathology; b. 15 April 1908, Würzburg, Germany; s. of late Max Neuberger and Bertha Neuberger; m. Lilian Ida Dreyfus; four s. one d.; ed. Gymnasium, Würzburg, Univs. of Würzburg and London; Beit Memorial Research Fellow 1936-40; research at Biochem. Dept., Cambridge 1939-42; mem. Scientific staff, Medical Research Council 1943; Adviser to GHQ, Delhi (Medical Directorate) 1945; Head of Biochem. Dept., Nat. Inst. for Medical Research 1950-55; Emer. Prof., Chemical Pathology, Univ. of London 1955-73; Visiting Lecturer in Medicine, Harvard Univ. 1960; mem. Editorial Bd., Biochemical Journal 1947-55, Chair. 1952-55; mem. Medical Research Council 1962-66; Chair. Biochemical Soc. 1967-69; mem. Agricultural Research Council 1970-; Chair. Governing Body, Lister Inst. 1970-; Chair. Jt. ARC/MRC Comm. on Food and Nutrition Research; mem. Independent Cttee. on Smoking and Health 1973-; William Julius Mickle Fellowship, Univ. of London 1946-47; Hon. LL.D. (Aberdeen), Hon. Ph.D. (Jerusalem); Heberden Medal 1959, Frederick Gowland Hopkins Medal 1960, Kaplun Prize 1973. *Publications:* Papers in Biochemical Journal, Proceedings of Royal Society and other learned journals. *Address:* 37 Eton Court, Eton Avenue, London NW3 3HJ, England.

NEUBERT, Karel; Czechoslovak politician; b. 27 April 1915, Třebíč; locksmith 1929-33; worker, mechanic, foreman Bata firm, later G. Kliment Works, Třebíč 1934-64, Gen. Dir. 1951-64; Chair. S. Moravian Regional Nat. Cttee. 1964-69, Chief Sec., Brno Regional Cttee. CP of Czechoslovakia 1969-; Alt. mem. Cen. Cttee. of CP of Czechoslovakia 1962-68; mem. Presidium 1968-69 and Cen. Cttee. of CP of Czechoslovakia 1968-; mem. Bureau of Cen. Cttee. for direction of Party work in Czech lands 1968-71; Deputy to House of Nations, Fed. Ass. of Č.S.S.R. 1969-71; Deputy, Czech Nat. Council 1968-71; Deputy Chair. Fed. Ass. 1969, mem. Presidium Fed. Ass. 1969-71; Deputy to House of the People, Fed. Ass. 1971-; Chair. Regional Cttee. Nat. Front, S. Moravia 1971; Leading Sec. S. Moravian Regional Cttee., CP of Czechoslovakia; Order of Labour 1956, 1975, Order of Victorious February 1973. *Address:* Regional Committee, Communist Party of Czechoslovakia, Brno; Central Committee of CP of Czechoslovakia, nábř. Kyjevské brigády 12, Prague I, Czechoslovakia (Offices).

NEUMANN, Alfred; German politician; b. 15 Dec. 1909, Berlin; ed. elementary school; carpenter by trade; active mem. labour movement 1928-; mem. Communist Party (KPD) 1929; emigrated to U.S.S.R. 1934; mem. Int. Brigade in Spain 1938-39; returned to Germany 1941, imprisoned 1942-45; mem. KPD 1945-46, Socialist Unity Party (SED) 1946; First Sec. Greater Berlin District SED 1953-57; mem. SED Cen. Cttee. 1954-, cand. mem. Politburo 1954-58, mem. 1958-, Sec. of SED Cen. Cttee. 1957-61; Pres. Econ. Council 1961-65; Minister of Materials 1965-68, First Deputy Chair. Council of Ministers 1968-; mem. Volkskammer (People's Chamber) 1954; Karl-Marx-Orden, and other decorations. *Address:* Ministerrat, Berlin, German Democratic Republic.

NEUMANN, Bernhard Hermann, DR.PHIL., PH.D., D.SC., F.A.C.E., F.A.A., F.R.S.; British mathematician; b. 15 Oct. 1909, Berlin-Charlottenburg, Germany; s. of Richard Neumann and Else Aronstein; m. 1st Hanna von Caemmerer 1938 (died 1971), three s. two d.; m. 2nd Dorothea F. A. Zeim 1973; ed. Berlin-Charlottenburg, Univs. of Freiburg, Berlin, Cambridge; Temp. Asst. Lecturer Univ. Coll. Cardiff 1937-40; Army Service 1940-45; Lecturer Univ. Coll Cardiff 1937-40; Army Service 1940-45; Lecturer Univ. Coll. Hull 1946-48; Lecturer, Sr. Lecturer, Reader, Univ. of Manchester 1948-61; Prof., Head of Dept., Australian Nat. Univ. 1962-74, Emer. Prof., Hon. Fellow 1975-79; Sr. Research Fellow, Div. of Math. and Statistics, Commonwealth Scientific and Industrial Research Org. 1975-77, Hon. Research Fellow 1978-; Visiting Lecturer Australian Univs. 1959, Visiting Prof. Tata Inst. Fundamental Research, Bombay 1959, Courant Inst. Math. Sciences, New York Univ. 1961-62, Univ. Wisconsin 1966-67, Vanderbilt Univ. 1969-70, Univ. of Cambridge 1970, Univ. Illinois Urbana-Champaign 1975, Univ. of Manitoba 1979; Visiting Fellow, Fitzwilliam Coll., Cambridge 1970; Editor Proceedings of London Mathematical Soc. 1959-61; Assoc. Editor Pacific Journal of Mathematics 1964-; Foundation Editor Bulletin of Australian Mathematical Soc. 1969-79; mem. Editorial Board Zentralblatt Didaktik Math. 1969-, Communications in Algebra 1972-, Houston Journal of Mathematics 1974-, Math. Student 1974-, Math. Scientist 1975-, Indian J. Math. Educ. 1975-; Editor and Publr. IMU Canberra Circular 1972-; Council London Math. Soc. 1954-61 (Vice-Pres. 1957-59); Council Australian Math. Soc. 1963- (Vice-Pres. 1963-64, 1966-68, 1971-73, Pres. 1964-66); Council Australian Acad. Science 1968-71, Vice-Pres. 1969-71; Foundation Pres. Australian Assn. Math. Teachers 1966-68, Vice-Pres. 1968-69; Foundation Pres. Canberra Math. Assn. 1963-65, Vice-Pres. 1965-66; Chair. Aust. Nat. Cttee. Math. 1966-75; Chair. Aust. Sub-Cttee., Int. Comm. Math. Instruction 1968-75; mem.-at-large, Int. Comm. on Math. Instruction 1975-79, Exec. Cttee. 1979-; mem. Exchange Comm., Int. Math. Union (IMU) 1975-79; mem. Acad. Advisory Council, Royal Aust. Naval Coll. 1978-; Pres. Amateur Sinfonia of Canberra Inc. 1978-79; Prize of Wiskundig Genootschap te Amsterdam 1949; Adams Prize (Cambridge Univ.) 1951-52; Hon. D.Sc. (Univ. of Newcastle, N.S.W.) 1974. *Publications:* Over 100 papers in mathematical journals. *Leisure interests:* music, chess, cycling. *Address:* Department of Mathematics, Institute of Advanced Studies, Australian National University, P.O. Box 4, Canberra, A.C.T. 2600; CSIRO-DMS, P.O. Box 1965, Canberra, A.C.T. 2601 (Offices); 20 Talbot Street, Forrest, A.C.T. 2603, Australia (Home). *Telephone:* 822011 and 494504 (Office); 733447 (Home).

NEUMANN, Robert Gerhard, PH.D.; American diplomatist and educator; b. 2 Jan. 1916, Vienna, Austria; s. of Hugo and Stephanie Taussky; m. Marlen Eldredge 1941; two s.; ed. High School and Consular Acad., Vienna, Univ. of Rennes, Geneva School of Int. Studies, Amherst Coll., Mass., Univ. of Minnesota; Teacher of Political Science and Econs., State Teachers' Coll., Oshkosh, Wis. 1941-42; Lecturer in Political Science, Univ. of Wisconsin 1946-47; Asst. Prof., Univ. of Calif., Los Angeles 1947-52, Assoc. Prof. 1952-58, Prof. of Political Science 1958-67, Dir. Inst. of Int. and Foreign Studies 1958-65; Chair. Atlantic and W. European Program 1965-66; Amb. to Afghanistan 1966-73, to Morocco 1973-76; Sr. Assoc. and Project Dir. Centre for Strategic and Int. Studies, Georgetown Univ. 1976-; Dir. Inst. for Study of Diplomacy, School of Foreign Service, Georgetown Univ. 1977-78; Editorial Writer Los Angeles Times 1952-59; Chevalier, Légion d'honneur 1957, Order of the Star, 1st Class (Afghanistan) 1973, Commdr. Order of Merit (Fed. Repub. of Germany) 1974, Grand Officier, Order and Star of Ouissam Alami (Morocco) 1976, Hon. Medal Univ. of Brussels 1955. *Publications:* European and Comparative Government, The Government of Germany 1966, Toward a More Effective Executive-Legislative Relationship in the Conduct of American Foreign Policy 1977, and numerous articles in professional journals. *Leisure interests:* skiing, hiking. *Address:* 4986 Sentinel Drive, No. 102, N.W., Washington, D.C. 20016; and 11865 Lucile Street, Culver City, Calif. 90230, U.S.A. (Homes). *Telephone:* (301) 229-1629; and (213) 397-3212 (Calif.).

NEUMANN, Václav; Czechoslovak conductor; b. 29 Sept. 1920, Prague; ed. Prague Conservatoire; fmr. viola player, Smetana Quartet; mem. Czech Philharmonic Orchestra; deputised for Rafael Kubelík 1948; later conducted orchestras in Karlovy Vary and Brno; Conductor Prague Symphony Orchestra 1956-63, Czech Philharmonic 1963-64; Chief Conductor Komische Oper, Berlin 1957-60, conducted first performance of The Cunning Little Vixen (Janáček); Conductor Leipzig Gewandhaus Orchestra and Gen.

Music Dir. Leipzig Opera House 1964-67; conductor Czech Philharmonic Orchestra 1967-68, Chief Conductor 1968-; Conductor Munich Opera Ensemble in Sweden 1969; tourned Austria 1970, 1971, 1972, 1974, Romania 1951, 1971, 1973, Fed. Repub. of Germany 1962, 1965, 1967, 1971, 1973, 1974, 1975, Yugoslavia 1970, Bulgaria 1975, Belgium 1970, Switzerland 1970, 1975, Spain 1975, Finland 1975; Nat. Prize of German Dem. Repub. 1966, Honoured Artist 1967. *Address:* Prague 1-Staré Město, Široká 10, Czechoslovakia.

NEUMEYER, Fritz; German professor of music, harpsichordist and composer; b. 1 July 1900; studied under F. Bölsche, A. von Fielitz, J. Kwast and W. Klatte, and at Univs. of Cologne and Berlin; Orchestra Conductor, Saarbrücken Municipal Theatre 1924-27; Leader Saarbrücken Assen. for Early Music, and harpsichordist 1927; Chamber Trio for Early Music (with Scheck and Wenzinger) 1935-62; Lecturer, Hochschule für Musik, Berlin 1939-44; Prof. of Historical Keyboard instruments, Hochschule für Musik, Freiburg/Breisgau 1946-69; concert harpsichordist with Capella Coloniensis and Wiener Solisten and duo on historical keyboard instruments with Rolf Junghanns 1968-; has considerable collection of old keyboard instruments; Johann-Stamitz Prize, Bundesverdienstkreuz. *Works include:* ballads, songs, choral works, Four Meditations for String Trio. *Address:* 78 Freiburg/Breisgau, Silberbachstrasse 21, Federal Republic of Germany.

NEUNYLOV, Boris Aleksandrovich; Soviet agrochemist and soil scientist; b. 3 Oct. 1908, Dankov, Lipetsk Region; ed. Far Eastern Agricultural Inst.; Agronomist 1927-30; Sr. Research Assoc. Head of Dept., Deputy Dir. Far Eastern Rice Experimental Station 1940-63; Chief Agronomist of Rice Farm 1940-46; Postgraduate Dokuchayev Soil Inst. U.S.S.R. Acad. of Sciences 1953-55; Chair. Presidium Far Eastern Section, Siberian Branch U.S.S.R. Acad. of Sciences 1964-71; First Deputy Chair., Far Eastern Scientific Centre of U.S.S.R. Acad. of Sciences 1970-73; Deputy Scientific Dir., Rice Inst. of All-Union Lenin Acad. of Agric. Science 1973-; mem. All-Union Lenin Acad. of Agric. Science 1966-; mem. CPSU 1940; Corresp. mem. U.S.S.R. Acad. of Sciences 1970-; Hero of Socialist Labour, Order of Lenin, "Hammer and Sickle" Gold Medal, etc. *Publications:* Works on selection of high-yield rice varieties in Soviet Far East. *Address:* Academy of Agricultural Sciences, Bolshoi Kharitonevsky Per. 21, B-78 Moscow 107078, U.S.S.R.

NEURATH, Hans, PH.D.; American biochemist; b. 29 Oct. 1909, Vienna, Austria; s. of Rudolf and Hedda Samek Neurath; m. 1st Hilde Neurath 1936 m. 2nd Susi Neurath 1960; one s.; ed. Elementary and High School, Vienna, and Univ. of Vienna; Research Fellow, Univ. of London 1934-35; Instructor and George Fischer-Baker Fellow, Cornell Univ., N.Y. 1936-38; Asst. Prof., Assoc. Prof., Prof. of Physical Biochem. Duke Univ. 1938-50; Chair. and Prof. of Biochem., Univ. of Washington, Seattle 1950; mem. U.S. Nat. Acad. of Sciences; Fellow American Acad. of Arts and Sciences; specializes in biochem. of proteins and enzymes, relation of their structure and function; D.Sc. (Geneva) 1970. *Publications:* Over 200 original publs. in biochemistry; Editor Biochemistry, The Proteins. *Leisure interests:* music (piano), mountaineering, skiing. *Address:* 5752 60th N.E. Seattle, Wash. 98105, U.S.A. (Home). *Telephone:* LA2-0814 (Home).

NEUSTADT, Richard Elliott; American politician scientist; b. 27 June 1919; ed. Univ. of California (Berkeley) and Harvard Univ.; Economist, Office of Price Admin. 1942; Staff mem., Bureau of Budget 1946-50, White House 1950-53; Prof. of Public Admin. Cornell Univ. 1953-54, of Govt., Columbia Univ. 1954-65, Harvard Univ. 1965-; Assoc. Dean, Kennedy School of Govt. 1965-75, Dir. Inst. of Politics, Harvard 1965-71; mem. Inst. for Strategic Studies 1963-; Fellow, American Acad. of Arts and Sciences 1964-; Visitor, Nuffield Coll., Oxford 1961-62, Assoc. [illegible] 1965-67; Special Consultant, Sub-Cttee. on Nat. Policy Machinery, U.S. Senate 1959-61; [illegible] Advisory Bd. on Comm. on Money and Credit 1960-61; Special Consultant to Pres.-Elect Kennedy 1960-61, to Pres. Kennedy 1961-63, to Bureau of Budget 1961-70, to Dept. of State 1962-69; mem. Council on Foreign Relations 1963; Consultant to Pres. Johnson 1964-66, to Rand Corpn. 1964-; Trustee, Radcliffe Coll.; Democrat. *Publications:* Presidential Power 1960, Alliance Politics 1970, *Address:* Littauer Center 127, Harvard University, Cambridge, Mass. 02135 (Office); 985 Memorial Drive, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 617-491-6127 (Home).

NEÚSTUPNÝ, Jiří, PH.DR., DR.SC.; Czechoslovak professor, archaeologist and museologist; b. 22 Sept. 1905, Pilsen, Bohemia; s. of František and Antonie Neústupný; m. Anna Neústupný 1931; two s. one d.; ed. Charles Univ., Prague; Keeper, Nat. Museum Prague 1925-; Lecturer, Charles Univ. 1950, Prof. of Prehistory and Museology 1969; mem. Council Int. Congress of Prehistoric Sciences 1948-, Vice-Chair. 1966; rep. Czechoslovak museums, UNESCO Confs. Mexico City 1947, Paris 1948, U.K. 1956 and 1964, U.S.A. 1965, Japan, Aust. N.Z. 1968, Leningrad, Moscow 1970; Head of Centre for Museological Educ. 1967; Dir. many excavations in Czechoslovakia; mem. German Archaeological Inst.; Scientific Prize of Bohemia 1948, Distinction for Outstanding Labour 1966. *Publications:* Prehistory of Mankind 1947, Questions de muséologie moderne 1950, Vorgeschichte der Lausitz 1951, Studies on the Eneolithic Plastic Arts 1956, Czechoslovakia before the Slavs 1961, Museum and Research 1968, Some Problems of the Settlement of Czechoslovak Territory in Prehistory 1968; Editor Fontes Archaeologici Pragenses 1958. *Leisure interests:* problems I have not yet solved. *Address:* Národní Museum, Václavské nám. 68, Prague I, Czechoslovakia. *Telephone:* 26-94-51.

NEVANLINNA, Rolf Herman, D.PHIL.; Finnish mathematician; b. 22 Oct. 1895, Joensuu; s. of Dr. Otto Nevanlinna and Margaretha Romberg; m. Sinikka Kallio 1958; three s. two d.; ed. Helsinki Univ.; Dozent of Math., Helsinki Univ. 1922-26, Prof. 1926-47, Dean of the Faculty of Sciences 1933-36, 1938-39, Rector 1941-45; Prof. of Math., Zürich Univ. 1947-48; Chancellor Univ. Turku 1965-70; mem. Acad. of Finland 1948-; Pres. Int. Math. Union 1959-62, Bd. of Sibelius Acad.; Hon. Prof. Zürich Univ.; Hon. Fellow Georg-August-Univ., Göttingen; Hon. mem., Foreign mem., Corresp. mem. several Acads. Dr. h.c. (Heidelberg, Bucharest, Giessen, Jyväskylä, Glasgow, Uppsala, Istanbul Univs., Freie Univ. Berlin); Wihuri Int. Math. Prize 1958, Henrik Steffens Int. Prize 1966. *Publications:* Le théorème de Picard-Borel et la théorie des fonctions méromorphes 1929, Eindeutige analytische Funktionen 1936, 1953, Uniformisierung 1953, Absolute Analysis (with F. Nevanlinna) 1959, Raum, Zeit und Relativität 1964, Einführung in die Funktionentheorie (with V. Paatero) 1965, Analytic Functions 1970; numerous mathematical papers and articles on philosophy, pedagogy, the arts, etc. *Leisure interest:* music. *Address:* Ads. Bulevardi 9A, Helsinki 12, Finland.

NEVELSON, Louise; American sculptor; b. 1900, Kiev, Russia; d. of Isaac Berliawsky and Minna Sadie Smolerank; m. Charles Nevelson 1920; studied with Hans Hoffman, Germany 1931; one-man exhbns. in U.S.A. and Europe 1963-; retrospective exhbn. Whitney Museum of American Art; perm. exhbns. at Whitney Museum of American Art, Brooklyn Museum, Newark Museum, Carnegie Inst., Museum of Modern Art, New York, and others; First Award United Soc. of Artists 1959, Award of Chicago Inst. 1959, Gold Medal MacDowell Colony, Brandeis Univ. Creative Arts Award for Sculpture, Skowhagen Medal for Sculpture. *Address:* 29 Spring Street, New York, N.Y. 10012, U.S.A.

NEVILLE, John, O.B.E.; British actor and theatre director; b. 2 May 1925, Willesden, London; s. of Reginald D. Neville and Mabel L. Fry; m. Caroline Hooper 1948; two s. three d.; ed. Chiswick County Grammar School and Royal Acad. of Dramatic Art, London; with Bristol Old Vic Co., London 1953, played Othello, Iago, Hamlet, Aguecheek and Richard II; mem. Chichester Theatre Co. 1962; created part of Alfie (Alfie by Bill Naughton), London 1963; Dir. Nottingham Playhouse 1963-68, Newcastle Playhouse 1967; Hon. Prof. in Drama, Nottingham Univ. 1967-; Drama Adviser to Howard and Wyndham Ltd.; in musical Mr. & Mrs. 1968; series of TV plays 1968; presented four plays at Fortune Theatre, London with the Park Theatre Co.; appeared in the Apple Cart, Mermaid Theatre, London 1970, The Beggar's Opera, Chichester 1972, Happy Days, Nat. Theatre, London 1977; went to Canada 1973; staged The Rivals, Nat. Arts Theatre, Ottawa; Dir. opera Don Giovanni, Festival Canada, Ottawa; played Prospero (The Tempest), Judge Brack (Hedda Gabler), Sir George Croft (Mrs. Warren's Profession), [illegible] Sherlock Holmes, New York 1975; Artistic Dir. of Citadel Theatre, Edmonton, Alberta, Canada 1973-78; Artistic Dir. Neptune Theatre, Halifax, Nova Scotia 1978. *Films acted in include:* Mr. Topaz, Oscar Wilde, Billy Budd, A Study in Terror, Adventures of Gerrard. *Leisure interests:* watching football, listening to music (all kinds), thinking about gardening. *Address:* c/o Larry Dalzell Associates Ltd., 3 Goodwin's Court, St. Martins Lane, London, W.C.2, England.

NEWBIGIN, Rt. Rev. Lesslie, C.B.E., M.A., D.D.; British missionary; b. 8 Dec. 1909, Newcastle upon Tyne; s. of Edward R. Newbigin and Annie E. Affleck; m. Helen S. Henderson 1936; one s. three d.; ed. Leighton Park School, Queens' Coll., Cambridge, and Westminster Coll., Cambridge; Sec., Student Christian Movement, Glasgow 1931-33; ordained to Ministry, Church of Scotland 1936; with Mission, Madras, S. India 1936-39; Missionary in charge, Kancheepuram 1939-46; Bishop in Madura, Church of S. India 1947-59; Gen. Sec. Int. Missionary Council 1959-61; Assoc. Gen. Sec. World Council of Churches, and Dir. Div. of World Mission and Evangelism 1961-65; Bishop in Madras 1965-74; Lecturer, Selly Oak Colls. 1974-79; Moderator, United Reformed Church of Eng-

land and Wales 1978-(79). *Publications:* Christian Freedom in the Modern World 1937, The Reunion of the Church 1948, South India Diary 1951, The Household of God 1953, Sin and Salvation 1955, One Body, One Gospel, One World 1958, A Faith for this One World? 1961, Trinitarian Faith for Today's Mission 1964, Honest Religion for Secular Man 1966, The Finality of Christ 1969, The Good Shepherd 1977, Christian Witness in a Plural Society 1977, The Open Secret 1979. *Leisure interests:* music, climbing mountains. *Address:* Central Office, Selly Oak Colleges, Birmingham, B29 6LE, England.

NEWBY, (Percy) Howard, C.B.E.; British author; b. 25 June 1918, Crowborough, Sussex; s. of Percy Newby and Isabel Clutsam (Bryant); m. Joan Thompson 1945; two d.; ed. St. Paul's Coll., Cheltenham; served in Army (R.A.M.C.) 1939-42; Lecturer in English Literature Fouad I Univ., Cairo 1942-46; mem. BBC Talks Dept. 1949-58, Controller Third Programme 1958-70, Controller Radio Three 1970-71; Dir. of Programmes, Radio 1971-75, Man. Dir. Radio 1976-78; Chair., English Stage Co. 1978-; mem. Arts Council Working Party 1978-; Atlantic Award for Literature 1946; Somerset Maugham Prize 1948, Yorkshire Post Fiction Award 1968, Booker Prize for Something to Answer For 1969. *Publications:* A Journey to the Interior 1945, Agents and Witnesses 1947, Mariner Dances 1948, The Snow Pasture 1949, Maria Edgeworth 1950, The Young May Moon 1950, The Novel 1945-50, A Season in England 1951, The Retreat 1953, The Picnic at Sakkara 1955, Revolution and Roses 1957, Ten Miles from Anywhere 1958, A Guest and his Going 1959, The Barbary Light 1962, One of the Founders 1965, Something to Answer For 1968, A Lot to Ask 1973, Kith 1977, Egypt and the Egyptians 1979. *Leisure interests:* music and gardening. *Address:* Upton House, Cokes Lane, Chalfont St. Giles, Bucks., England (Home). *Telephone:* Little Chalfont 2079.

NEWCOMBE, John David C.B.E.; Australian professional tennis player; b. 23 May 1944, Sydney; s. of George Ernest and Lillian Newcombe; m. Angelika Pfannenberg 1966; one s. one d.; ed. Sydney Church of England Grammar School; winner of Wimbledon Singles Championship 1967, 1970, 1971, U.S.A. Singles Championship 1967, 1973, Australia Singles Championship 1973, 1975, World Championship Tennis Crown 1974, Wimbledon Doubles Championship 1965-66, 1968-70, 1974; played with Australian Davis Cup Team 1963-67, 1973-76; Pres. Assn. of Tennis Professionals 1976-; Pres. Program Tennis Services, Texas Co. *Publication:* The Family Tennis Book 1975. *Leisure interests:* skiing, waterskiing, golf, fishing. *Address:* P.O. Box 469, New Braunfels, Texas 78130, U.S.A.

NEWELL, Homer Edward; American physicist; b. 11 March 1915, Holyoke, Mass.; s. of Homer E. Newell and Nan Davis; m. Janice M. Hurd 1938; one s. three d.; ed. Harvard Univ. and Univ. of Wisconsin; Graduate Asst. Math. Dept. Univ. of Wisconsin 1937-40; Instructor, Asst. Prof., Math. Dept. Univ. of Maryland 1940-44; Theoretical Physicist, Naval Research Lab., Head, Rocket-Sonde Research Branch; Act. Supt. Atmosphere and Astrophysics Div., Naval Research Lab. 1955-58; also Science Program Co-ordinator for Project Vanguard; Asst. Dir. for Space Sciences, Nat. Aeronautics and Space Admin. (NASA) 1958-60, Deputy Dir. Space Flight Programs 1960-61, Dir. Office of Space Sciences 1961-63, Assoc. Admin. for Space Science and Applications 1963-67, Assoc. Admin. NASA 1967-74, retd.; mem. American Geophysical Union (Fellow, Pres. 1970-72), A.A.A.S. (Fellow), American Inst. of Aeronautics and Astronautics (Fellow), Research Soc. of America; Hon. D.Sc. (Cen. Methodist Coll); awarded American Rocket Soc. Pendray Award 1958, American Astronautical Assn. Space Flight Award 1960, AMVETS Civil Servant of the Year Award 1961, President's Award for Distinguished Fed. Civil Service for 1965; Career Service Award of Nat. Civil Service League 1965; NASA Distinguished Service 1967, Cleveland Abbe Award, American Meteorological Soc. 1971. *Publications:* High Altitude Rocket Research 1953, Vector Analysis 1955, Space Book for Young People 1958, Guide to Rockets, Missiles and Satellites 1958, Sounding Rockets 1959, Window in the Sky 1959, Express to the Stars 1961. *Leisure interests:* swimming, hiking, the piano, reading. *Address:* 2567 Nicky Lane, Alexandria, Virginia 22311, U.S.A. *Telephone:* (703) 931-2143.

NEWHOUSE, Samuel Irving; American newspaper executive; b. 1896; Pres. numerous newspapers, including Long Island Daily Pres, Syracuse Herald-Journal, Syracuse Post-Standard, Harrisburg Patriot-News, Portland-Oregonian, St. Louis Globe-Democrat, Birmingham News, Times Picayune, States-Item. *Address:* Star Ledger Plaza, Newark, N.J. 07101, U.S.A.

NEWMAN, Edwin Harold; American journalist; b. 25 Jan. 1919, New York; s. of Myron Newman and Rose Parker Newman; m. Rigel Grell 1944; one d.; ed. Univ. of Wisconsin, Louisiana State Univ.; Washington Bureau, Int. News Service 1941, United Press 1941-42, 1945-46; U.S. Navy 1942-45; CBS News, Washington, D.C. 1947-49; freelance, London 1949-52; NBC News, London Bureau 1952-57, Rome Bureau 1957-58, Paris Bureau 1958-61; Corresp. and Commentator, NBC News, New York 1961-; Peabody, Overseas Press Club, Emmy, Univ. of Mo. School of Journalism Award and others. *Publications:* Strictly Speaking 1974, A Civil Tongue 1976, Sunday Punch 1979; articles for Punch, Esquire, Atlantic, Harper's, New York Times, Saturday Review, Chicago Tribune, TV Guide, Sports Illustrated. *Leisure interests:* tennis, music, reading. *Address:* NBC News, 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A. *Telephone:* 644-4444.

NEWMAN, Maxwell Herman Alexander, M.A., F.R.S.; British mathematician; b. 7 Feb. 1897, London; s. of Herman Newman and Sarah Pike; m. 1st Lyn Irvine 1934 (died 1973), two s.; m. 2nd Margaret Penrose 1974; ed. City of London School, St. John's Coll., Cambridge, and Princeton Univ.; University Lecturer, Cambridge Univ. 1927-45; Fellow, St. John's Coll., Cambridge 1924-25; Prof. of Math., Univ. of Manchester 1945-64, now Emer. Prof.; Visiting Prof. Australian Nat. Univ., Univ. of Wisconsin, Univ. of Utah, Rice Univ., Univ. of Warwick, Michigan State Univ. 1964-69, George A. Miller Visiting Prof. Univ. of Illinois 1969-70; Pres. London Math. Soc. 1950-52, Math. Assn. 1960; Hon. D.Sc. (Hull); Sylvester Medal, Royal Soc. 1958; De Morgan Medal, London Math. Soc. 1962. *Publications:* Topology of Plane Sets of Points 1939; numerous papers on mathematics in scientific journals. *Address:* Cross Farm, Comberton, Cambridge, England. *Telephone:* Comberton 2276.

NEWMAN, Melvin Spencer, PH.D.; American professor of organic chemistry; b. 10 March 1908, New York; s. of Jacob K. Newman and Mae Polack; m. Beatrice Crystal 1933; two s. two d.; ed. Yale Univ.; Instructor, Ohio State Univ. 1936-40, Asst. Prof. of Organic Chem. 1940-44, Prof. 1944-, Regents Prof. 1966; mem. Nat. Acad. of Sciences; Hon. D.Sc. (New Orleans) 1975, (Bowling Green State Univ.) 1978; American Chem. Soc. Award for Creative Work in Synthetic Organic Chem. 1961, Morley Medal, Cleveland Section American Chem. Soc. 1969, Wilbur Cross Medal, Yale Univ. 1970, Joseph Sullivant Medal, Ohio State Univ. 1976, Columbus Section Award of American Chem. Soc. 1976, Roger Adams Award, American Chem. Soc. 1979. *Publications:* Editor: Steric Effects in Organic Chemistry 1956, An Advanced Organic Laboratory Course 1972; over 300 publs. in scientific journals. *Leisure interests:* music, golf, billiards and pool, gardening. *Address:* Chemistry Department, Ohio State University, Columbus, Ohio 43210; 2239 Onandaga Drive, Columbus, Ohio 43221, U.S.A. (Home). *Telephone:* 614-422-2420 (Office); 614-488-6441 (Home).

NEWMAN, Paul; American actor; b. 26 Jan. 1925; s. of Arthur Newman and Theresa Fetzer; m. 1st Jacqueline Witte 1949, (deceased 1978) one d.; m. 2nd Joanne Woodward (*q.v.*) 1958, three d.; ed. Kenyon Coll. and Yale Univ. School of Drama; Mil. service 1943-46; Best Actor, Acad. of Motion Pictures, Arts and Sciences 1959, 1962, 1964. *Stage appearances include:* Picnic 1953-54, Desperate Hours 1955, Sweet Bird of Youth 1959, Baby Want a Kiss 1964. *Films include:* The Rack 1955, Somebody Up There Likes Me 1956, Cat on a Hot Tin Roof 1958, Rally Round the Flag, Boys 1958, The Young Philadelphians 1958, From the Terrace 1960, Exodus 1960, The Hustler 1962, Hud 1963, The Prize 1963, The Outrage 1964, What a Way to Go 1964, Lady L 1965, Torn Curtain 1966, Hombre 1967, Cool Hand Luke 1967, The Secret War of Harry Frigg 1968, Butch Cassidy and the Sundance Kid 1969, WUSA 1970, Pocket Money 1972, The Life and Times of Judge Roy Bean 1973, The Mackintosh Man 1973, The Sting 1973, The Towering Inferno 1974, The Drowning Pool 1975, Buffalo Bill and the Indians 1976, Silent Movie 1976, Slap Shot 1977; *Dir.* Rachel, Rachel 1968, The Effect of Gamma Rays on Man in the Moon Marigolds 1973. *Address:* c/o Rogers & Cowan Inc., 9665 Wilshire Boulevard, Beverly Hills, Calif. 90210, U.S.A.

NEWMARK, Nathan Mortimore, PH.D.; American consulting engineer and university professor; b. 22 Sept. 1910, Plainfield, N.J.; s. of Abraham S. Newmark and Mollie Nathanson Newmark; m. Anne M. Cohen 1932; one s. two d.; ed. Rutgers Univ. and Univ. of Illinois; Univ. of Ill. 1934-, Research Asst. 1934-36, Research Assoc. 1936-37, Research Asst. Prof. 1937-43, Research Prof. 1943-56, Head of Dept. and Prof. of Civil Eng. 1956-73, Prof. Civil Eng. and Center for Advanced Study 1973-76, Emer. 1976-; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng.; Fellow, American Acad. of Arts and Sciences; Hon. Sc.D. (Rutgers Univ.) 1955; Dr. h.c. (Liège) 1967; LL.D. (Notre Dame) 1969; Hon. D.Sc. (Illinois) 1978; Washington Award; von Karman Medal, Norman Medal, Howard Award, Moisseff Award, Croes Medal, American Soc. of Civil Engineers; Bendix Award, American Soc. of Civil Engineers; Bendix Award, American Soc. for Eng. Educ.; Nat. Medal of Science 1968; Outstanding Civilian Serive Medal, Dept. of the Army 1971, John Fritz

Medal 1979. *Publications:* Fundamentals of Earthquake Engineering 1971, and over 220 papers in structural analysis and design, applied mechanics, numerical methods of stress analysis, effects of impact, shock, vibration, wave action, blast and earthquakes on structures. *Leisure interest:* photography. *Address:* Department of Civil Engineering, University of Illinois, Urbana, Ill. 61801 (Office); 1705 South Pleasant Street, Urbana, Ill. 61801, U.S.A. (Home). *Telephone:* 217-333-3813 (Office); 217-344-4795 (Home).

NEWSOM, David Dunlop, A.B., M.S.; American diplomatist; b. [redacted] Jan. 1918; ed. Richmond Union High School and Calif. and Columbia Univs; Reporter, San Francisco Chronicle 1940-41; U.S. Navy 1941-45; Newspaper publr. 1945-47; Information Officer, U.S. Embassy, Karachi 1947-50; Consul, Oslo 1950-51; Public Affairs Officer, U.S. Embassy, Baghdad 1951-55; Dept. of State 1955-59; U.S. Nat. War Coll. 1959-60; First Sec. U.S. Embassy, London 1960-62; Dir. Office of Northern African Affairs, State Dept. 1962-65; Amb. to Libya 1965-69; Asst. Sec. of State for African Affairs 1969-73; Amb. to Indonesia 1974-77, to Philippines 1977-78; Under-Sec. of State for Political Affairs 1978-; Dept. of State Meritorious Service Award 1958, Nat. Civil Service League Career Service Award 1971, Rockefeller Public Service Award 1973. *Address.* Department of State, 2201 C Street, N.W., Washington D.C. 20520, (Office); 3308 Woodley Road, N.W., Washington D.C. 20008, U.S.A. (Home).

NEWTON, Ivor, C.B.E., F.R.C.M.; British pianoforte accompanist; b. 15 Dec. 1892, London; s. of William and Gertrude Newton; accompanist with Kirsten Flagstad, John McCormack, Melba, Tetrazzini, Chaliapin, Gigli, Tito Schipa, Jussi Björling, Lotte Lehmann, Elisabeth Schumann, Maria Callas, Tito Gobbi, Clara Butt, Ysaÿe, Piatigorsky, Pablo Casals, Yehudi Menuhin, Victoria de los Angeles; has toured extensively in Europe, U.S.A., Canada, Africa, Australia and New Zealand. *Publication:* At the Piano—Ivor Newton (autobiography) 1966. *Address:* Kirsten House, 24 Kinnerton Street, London, S.W.1, England. *Telephone:* 01-235 2882.

NEWTON, Sir (Leslie) Gordon, Kt., B.A.; British journalist; b. 16 Sept. 1907; ed. Blundell's School and Sidney [redacted] Coll., Cambridge; entered journalism 1935; Army Service 1939-45; joined Financial Times 1946, Features Editor, Leader Writer and Columnist 1946-50, Editor 1950-72; Chair. J. H. Vavasseur & Co. 1973-74; Chair. Lion Int. 1973; Chair. London Broadcasting Co. 1974-77; Deputy Chair. Mills and Allen 1974-; Dir. Pearson-Longman 1972-76, Industrial and Trade Fairs Holdings 1968-75, Throgmorton Publs. 1968-75, Trust Houses Forte 1973-, Mills and Allen Int. 1978-; Int. Publ. Corpn. Hannen Swaffer Award as Journalist of the Year 1966-67. *Address:* Little Basing, Vicarage Walk, Bray-on-Thames, Berks., England.

NEY, Edward, PH.D.; American professor of physics; b. 28 Oct. 1910, Minneapolis, Minn.; s. of Otto F. and Jessamine Purdy Ney; m. June V. Felsing 1942; three s. one d.; ed. Univs. of Minnesota and Virginia; Research Asst., Univ. of Va. 1940-42, Research Assoc. 1943-46, Asst. Prof. 1946-47; Consultant Naval Research Lab. 1943-44; Asst. Prof. Univ. of Minn. 1947-50, Assoc. Prof. 1950-55, Prof. of Astrophysics 1955-, Regents' Prof. 1974; mem. Nat. Acad. of Sciences. *Publications:* over 100 articles in professional journals. *Address:* School of Physics and Astronomy, University of Minesota, Minneapolis, Minn. 55455, U.S.A. *Telephone:* 612-373-4687.

NEY, Edward Noonan, B.A.; American advertising executive; b. 26 May 1925, St. Paul, Minn.; s. of John and Marie Noonan Ney; m. 2nd Judith Ney 1974; [redacted] s. two d. (by previous marriage); ed. Amherst Coll.; Account exec., Young and Rubicam Inc. 1951, Pres. Int. Div. 1968-70; Pres., Chief Exec. Officer, Young and Rubicam Inc. 1970-; Dir. Radio Free Europe 1975-; Trustee, Cttee. for Econ. Devt. 1973-, Nat. Urban League 1974-; mem. Council on Foreign Relations 1974-. *Leisure interests:* tennis, paddle tennis, reading. *Address:* 285 Madison Avenue, New York 17, N.Y., U.S.A. *Telephone:* (212) 953-2022 (Office).

NEYMAN, Jerzy, PH.D.; American statistician and university professor; b. 16 April 1894, Bendery, Russia; s. of Czeslaw and Kazimera (Lutoslawska) Neyman; m. Olga Solodovnikova 1920; one s.; ed. Univs. of Kharkov, Russia and Warsaw, Poland; Lecturer, Inst. of Tech., Kharkov 1917-21; Statistician, Agricultural Inst., Bydgoszcz, Poland 1921-23; Lecturer, Warsaw Coll. 1923-24, Univ. of Warsaw 1923-34, Univ. Coll., London 1934-35; Reader in statistics, Univ. Coll., London 1935-38; Prof. of Math., Univ. of Calif. (Berkeley) 1938-55, Dir. Statistical Lab. 1938-41, Chair. Dept. of Statistics 1955-57, now Prof., Dir. of Statistical Lab. Emer., recalled to active duty; Messenger Lecturer, Cornell Univ. 1971; Chair. Editorial Bd., the Copernican Volume, Nat. Acad. of Sciences; mem. U.S. Nat. Acad. of Sciences, Royal Swedish Acad. of Sciences, Nat. Acad. of Science of Poland, American Acad. of Arts and Sciences, Inst. of Math. Statistics, American Statistical Assn. A.A.A.S.; Pres. Int. Assn. for Statistics in Physical Sciences 1969-71; Hon. Pres. Int. Statistical Inst. 1972-; Hon. [redacted] Polish Math. Soc. 1974; Hon D.Sc. (Chicago) 1959, (Warsaw) 1974, (Indian Statistical Inst.) 1974; Hon. LL.D. (Univ. of Calif., Berkeley) 1963; Hon Ph.D. (Stockholm) 1964.; Guy Medal in Gold, Royal Statistical Soc. (U.K.) 1966-67, Nat. Medal of Science 1969, Alfred Jurzykowski Foundation Award in Science 1971. *Publications:* Numerous papers in scientific journals; Nicholas Coperniais (Mikołaj Kopernik): An intellectual revolutionary 1974, The Heritage of Copernicus: Theories Pleasing to the Mind (editor). *Leisure interests:* literature, music. *Address:* Statistical Laboratory, Department of Statistics, University of California, Berkeley, Calif. 94720 (Office); 212 Amherst Avenue, Berkeley, Calif. 94708, U.S.A. (Home). *Telephone:* (415) 642-3357; (415) 525-1801 (Home).

NEYMAN, Leonid Robertovich, D.SC. (ENG.); Soviet electrical engineer; b. 6 April 1902, St. Petersburg (now Leningrad); ed. Leningrad Polytechnical Inst.; Lecturer 1930-52, Head of Chair., Leningrad Polytechnical Inst. 1952-; Head of Section, Leningrad Electrophysical Inst. 1931-35, 1940-; Sr. Research Assoc. 1946-53, Head of Lab., Energy Inst., U.S.S.R. Acad. of Sciences 1953-; corresp. mem. U.S.S.R. Acad. of Sciences 1953-70, Academician 1970-; Order of Lenin (twice), Order of Red Banner, and other decorations. *Publications:* Theoretical Foundations of Electrical Engineering 1966 (co-author). *Address:* Polytechnical Institute, 29 Politkhnicheskaya ulitsa, Leningrad, U.S.S.R.

NEZERITIS, Andreas; Greek composer; b. 1897, Patras; m. Irena Skoufou 1939; ed. Conservatoire of Athens, and studies under Denis Lavrangas; Pres. League of Greek Composers 1957; awarded First Prize, Acad. of Athens 1952; Gold Cross, Order of King George 1965; Silver Medal and Prize, Acad. of Athens 1971; works performed in Greece, Germany, Netherlands, France, Italy, U.S.S.R., Czechoslovakia and U.S.A.; Fellow, Int. Inst. of Arts and Letters 1958-. *Works include:* two operas The King Aniliagos and Hero and Leander; three symphonies, No. 1 in G minor, No. 2 in C minor and No. 3 in D minor Concerto for Violin and Orchestra; Concerto for Violoncello and Orchestra; Concertino for Piano and Orchestra; Five Psalms of David for four Soloists, Mixed Chorus and Full Orchestra; Concerto for String Orchestra; two Greek Rhapsodies; five Symphonic dances; Greek Dance Suite on Cypriot Themes; also ballet and vocal music and piano music. *Leisure interest:* gardening. *Address:* 54 Eptanissou Street, Athens 807, Greece. *Telephone:* 8673-239.

NEZU, Kaichiro; Japanese business executive; b. 29 Sept. 1913; ed. Econs. Dept., Tokyo Univ.; Dir., Fukotu Life Insurance Co. 1940-, Tokyo [redacted] Co. Ltd., Yokohama Warehouse Co. 1940-; Pres. Tobu Railway Co. 1941-; Vice-Pres. All-Japan Private Railways Assn.; Dir. Fed. of Econ. Orgs. 1941-; Councillor, Japan Cen. Cultural League, Chamber of Commerce and Industry, Tokyo. *Address:* Tobu Railway Co. Ltd., 1-2, Oshiage 1-chome, Sumidaku, Tokyo, Japan. *Telephone:* 623-5111.

NGAKINAR, Col. Mamari Djime; Chad army officer and politician; Vice-Pres. of the Supreme Mil. Council July 1975-; Minister of the Interior and Security 1975-76; Minister of State 1976-78, of Defence 1978-. *Address:* Office du Vice-Président, Conseil Supérieur Militaire, N'Djamena, Chad.

NGAPO NGAWANG-JIGME; Tibetan soldier and administrator; b. 1909, Tibet; Leader Tibetan Army resisting Chinese Invasion 1950; First Deputy Commdr. Tibet Mil. Region, People's Liberation Army of China People's Repub. 1952; Vice-Chair. Preparatory Cttee. for Tibet Autonomous Region 1959-65; Vice-Chair. Standing Cttee., Nat. People's Congress 1965-; Chair. Tibet Autonomous Region People's Govt. 1965-68; Vice-Chair. Tibet Revolutionary Cttee. 1968, Exec. Chair. Presidium, Nat. People's Congress 1978. *Address:* Peking, People's Republic of China.

NGEI, Paul, B.SC.(ECON.); Kenyan politician; b. 1923, Machakos; grandson of Akamba Paramount Chief Masaku; ed. Makerere Coll., Kampala; Army Service, Second World War; founded Wasya wa Mukamba newspaper and Swahili magazine Uhuru wa Mwafrika 1950; Deputy Gen. Sec. Kenya African Union 1951-52; imprisoned and under restriction for connection with Mau-Mau 1953-61; Pres. Kenya African Farmers' and Traders' Union 1961; founded African Peoples' Party 1962; Chair. Maize Marketing Bd. 1963-64; Minister for Co-operatives and Marketing 1964-65; Minister for Housing and Social Services 1965-66; Minister for Housing 1966-74, of Local Govt. 1974-75, unseated by High Court ruling; M.P. for Kagunda Jan. 1976-; Minister of Co-operative Devt. March 1976-; Man. Dir. Akamba Carving and Industrial Co. *Address:* Ministry of Co-operative Development, Nairobi, Kenya.

NGHAKY, Nzo Ekhan (see Ekangaki, Nzo).

NGO DINH NHU, Madame; Vietnamese politician; widow of Ngo Dinh Nhu, brother and Adviser to the late Pres. Ngo Dinh Diem; arrested by Viet Minh, later escaped 1946; organized first popular demonstration in support of Govt. of Prime Minister Ngo Dinh Diem 1954; Official Hostess for Pres. Ngo Dinh Diem 1955-63; fmr. Deputy, Nat. Ass., author of "Family Bill"; f. programme of paramilitary service for [illegible] Oct. 1961; Founder-Pres. Viet-[illegible] Women's Solidarity Movement.

NGOM JUA, Augustine; Cameroonian politician; b. Nov. 1924; ed. St. Anthony's School, Njinikom, Elementary Training Centre, Kake-Kumba, and Govt. Teacher Training Coll., Kumba; Teacher, Bafut Catholic School 1940-42; Headmaster, Muyuka Catholic School 1946-47, Catholic School, Dikome 1949-50, Catholic School, Njinikom 1951; Sec. Kom Improvement Assn. 1952; Chair. Regional Consultative Cttee., Enugu 1953; mem. House of Ass. 1954-57; Minister of Educ. and Social Services 1959; Sec. of State for Finance and Deputy Minister of Health 1961-62; Prime Minister of W. Cameroon 1965-67; Grand Order of Valour (Cameroon), Knight Commdr. Humane Order of African Redemption (Liberal), Great Cross Second Class of the Order of Merit of the Fed. Repub. of Germany, Order of Commdr. (Tunisia), Grand Officer of the Nat. Order of Senegal. *Address:* Buea, United Republic of Cameroon.

NGONDA, Putteho Muketoi, B.SC.ECON.; Zambian diplomatist; b. 16 Aug. 1936, Mongu; s. of Sitali and Naluca Ngonda; m. Lungowe Mulale 1965; three s.; ed. Mongu and Mundi Secondary Schools, Univ. Coll. of Rhodesia and Nyasaland, Salisbury; District Officer 1963-64; Second Sec. Zambia Perm. Mission to UN 1964-65; First Sec. Zambian Embassy, Washington 1967-68; Asst. Sec. (Political), Ministry of Foreign Affairs 1968-70, Under-Sec. 1970-72; Amb. to Ethiopia 1972-74; High Commr. In U.K. 1974-75; Perm. Sec., Ministry of Foreign Affairs 1975-77; Amb. to U.S.A., Peru, Brazil and Venezuela 1977-. *Leisure interest:* tennis. *Address:* Embassy of the Republic of Zambia, 2419 Massachusetts Avenue, N.W. Washington, D.C. 20008, U.S.A. *Telephone:* (202) 265-9717/21.

NGUGI, Wa Thiong'o (James); Kenyan novelist; b. 1938, Limuru; ed. Makerere Univ. Coll., Uganda and Leeds Univ., England; Lecturer in Literature, Univ. Nairobi 1967-69; Fellow in Creative Writing, Makerere Univ. 1969-70; Visiting Assoc. Prof. Northwestern Univ., U.S.A. 1970-71; fmr. Sr. Lecturer and Chair. Literature Dept., Univ. Nairobi; arrested and detained Jan. 1978, released Jan. 1979. *Publications:* The Black Hermit (play) 1962, Weep Not Child 1964, The River Between 1965, A Grain of Wheat 1967, Homecoming (essays) 1972, Secret Lives (short stories) 1973, Petals of Blood (novel). *Address:* Lumuru, Kenya.

NGUYEN CAO KY, Air Vice-Marshal; Vietnamese air force officer and politician; b. 8 Sept. 1930; ed. High School, Hanoi, and Officers' Training School, Hanoi; Flight Training, Marrakesh until 1954; commanded Transport Squadron 1954, later commdr. Tan Son Nhât Air Force Base, Repub. of Viet-Nam; spent six months at U.S. Air Command and Staff Coll., Maxwell Field, Alabama, U.S.A.; later Commdr. Air Force, Repub. of Viet-Nam; Prime Minister 1965-67; Vice-Pres. Repub. of Viet-Nam 1967-71; went to U.S.A. April 1975. *Publication:* Twenty Years and Twenty Days 1977.

NGUYEN HUU THO; Vietnamese politician; b. 10 July 1910, Cholon; participated in liberation [illegible] against French colonialists; organized [illegible] demonstration, Saigon-Cholon [illegible] March 1950 against U.S. interference; imprisoned 1950-52; opposed 1954 Geneva agreements on Indo-China; founded Saigon-Cholon Peace Movement; subsequently arrested, escaped 1961; Chair. Nat. Liberation Front Cen. Cttee. 1962-; Chair. Presidium of NLF Cen. Cttee. 1964-; Chair. Consultative Council, Provisional Revolutionary Govt. of Repub. of S. Viet-Nam 1969-76 (in Saigon 1975-76); Vice-Pres. Socialist Repub. of Viet-Nam July 1976-. *Address:* Office of the Vice-President, Hanoi, Viet-Nam.

NGUYEN KHANH, Lieut.-Gen.; Vietnamese army officer and politician; b. 1927; ed. Viet-Nam Mil. Acad., Dalat, Army Staff Schools, Hanoi and France, and U.S. Command and Gen. Staff Coll., Fort Leavenworth; French Colonial Army 1954, Vietnamese Army 1954-; Chief of Staff to Gen. Duong Van Minh 1955; took part in coup against Pres. Diem Nov. 1963; Prime Minister Jan.-Oct. 1964; Chair. Armed Forces Council Dec. 1964-Feb. 1965; led coup Jan. 1965; Roving Amb. 1965.

NGUYEN LUONG BANG; Vietnamese politician; b. 1904, Hai Duong; frequently arrested for political activities; sentenced to twenty years imprisonment 1931, escaped 1932, recaptured 1933, escaped again 1943; mem. Cen. Cttee. Working People's Party, Dem. Repub. of Viet-Nam 1945; fmr. Dir. of State Bank and Govt. Gen. Inspector; fmr. Head Party Control Cttee.; Amb. to U.S.S.R. 1952-57; Vice-Pres. of Dem. Repub. of Viet-Nam Sept. 1969-76, of Socialist Repub. of Viet-Nam July 1976-. (Died July 1979)

NGUYEN PHU DUC, LL.D., DR.JUR.; Vietnamese diplomatist; b. 13 Nov. 1924, Sơn-Tay; m.; two s.; ed. Univ. of Hanoi, Harvard Law School; Perm. Observer to UN 1964-65; Special Asst. for Foreign Affairs to Pres. Thieu 1968; Envoy to Thailand, Khmer Repub., Laos, Indonesia, U.S.A. 1972; Minister of Foreign Affairs 1973; Amb. to Belgium 1974-75; has attended confs. [illegible] Viet-Nam 1966, 1967, 1968, 1969, 1973, active in negotiations leading to Paris Conf. 1968, and to Paris Agreement 1973.

NGUYEN THI BINH, Madame; Vietnamese politician; b. 1927; ed. Saigon; student political leader in Saigon; organized (with Nguyen Huu Tho) first anti-American demonstration 1950; imprisoned by French authorities 1951-54; Vice-Pres. S. Vietnamese Cttee. for Solidarity with the American People; Council mem. Union of Women for the Liberation of S. Viet-Nam; mem. Cen. Cttee. Nat. Liberation Front (NLF); appointed NLF spokesman to four-party peace talks, Paris Nov. 1968; Minister for Foreign Affairs, Provisional Revolutionary Govt. of S. Viet-Nam 1969-76 (in Saigon 1975-76); Minister of Educ., Socialist Repub. of Viet-Nam July 1976-; Pres. Vietnamese Women's Union, Hanoi 1976. *Address:* Ministry of Education, Hanoi, Viet-Nam.

NGUYEN VAN LINH; Vietnamese politician; b. 1913, North Viet-Nam; mem. Cen. Cttee. of Lao Dong Party for many years; fmr. Sec. Saigon (now Ho Chi Minh City) Cttee. of Lao Dong Party, second in command to Pham Hung (*q.v.*); now [illegible] party leader in Ho Chi Minh City; [illegible] Sec. and Politburo, CP of Viet-Nam Dec. 1976-; Pres. Viet-Nam Gen. Fed. of Trade Unions 1978-. *Address:* Ho Chi Minh City Committee of the Communist Party of Viet-Nam, Ho Chi Minh City, Viet-Nam.

NGUYEN VAN LOC, LL.M.; Vietnamese lawyer, writer and politician; b. 24 Aug. 1922, Vinh-Long; s. of Nguyen Van Hanh and Tran Thi Ngo; m. Nguyen Thi Mong Hoa; two s.; ed. Univs. of Montpellier and Paris; Lawyer, Saigon Court of Appeal 1955; Lecturer, Nat. Inst. of Admin. 1965; Chair. People and Armed Forces Council 1966, People and Armed Forces Council Political Cttee. 1966; Vice-Chair. Constituent Ass. Electoral Law Preparation Cttee.; mem. Barristers Fraternity 1961-67; Del. in charge of campaigning, Cttee. for Aid to War Victims (Viet-Nam Red Cross); Counsellor, Viet-Nam Assn. for Protection of Human and People's Rights; Sec.-Gen., Inter-Schools Assn. 1965-67; Prime Minister of Repub. of Viet-Nam Nov. 1967-May 1968; Prof. Univ. of Hóa-Hao 1970; Founder and Rector, Cao-Dai Univ. 1971-75. *Publications:* Uprising (novel) 1946, Rank 1948, New Recruits (novel) 1948, Poems on Liberation (collection) 1949, Recollections of the Green Years 1960, Free Tribune (collection) 1966, Poisonous Water (novel) 1971. *Leisure interests:* fishing, water skiing. *Address:* 162 Gia Long, Ho Chi Minh City, Viet-Nam.

NGUYEN VAN THIEU, Lt.-Gen.; Vietnamese army officer and politician; b. 5 April 1923, Ninh Tvuan; m. Nguyen Thi Mai Anh 1951; one s. one d.; ed. Catholic Pellerin School, Hué, and Nat. Mil. Acad., Hué; Viet-Nam Nat. Army 1948-54; Repub. of Viet-Nam Army 1954-75; Commdr. First Infantry Div. 1960-62, Fifth Infantry Div. 1962-64; Deputy Premier and Minister of Defence 1964-65; Chair. Nat. Leadership Cttee. and Head of State 1965-67; Pres. of Repub. of Viet-Nam 1967-75; f. Dan Chu Party 1973; went to Taiwan April 1975; now living in England.

NGUYEN VAN VY, Lt.-Gen.; Vietnamese politician; b. 16 Jan, 1916, Hanoi; ed. Univ., Tong Officers' School and School of Command and Staff, Paris; Chief Mil. Cabinet of Chief of State 1952; Commdr. Coastal Interzone 1954; Acting Chief, Gen. Staff, Viet-[illegible] Army Oct. 1954; Insp. Gen. Dec. 1954; Asst. Chief of Staff for Training, R.V.N.A.F. Jan. 1964; Asst. to C.-in-C. Nov. 1964; Commdt. Quang Trung Training Centre Feb. 1965; Commdr. Training Command, R.V.N.A.F. June 1966; C.-of-S. Jt. Gen. Staff R.V.N.A.F. 1966-67; Minister of Defence 1968-Aug. 1972; Grand Officer Nat. Order of Viet-Nam; Army and Air Force Distinguished Service Orders; Officier, Légion d'honneur.

NGUZA KARL-I-BOND; Zairian diplomatist and politician; b. 1938, Musumba; ed. Catholic schools, Elisabethville (now Lubumbashi), and Univ. of Louvain, Belgium; Announcer, Radio Lubumbashi 1957-60, Radio Kinshasa 1964; mem. of Prime Minister Tshombe's private cabinet 1964; Counsellor, Congolese Embassy, Brussels 1964-66; Govt. Commr. Union Minière 1965-66; Counsellor, Congolese Del. to UN, New York 1966-68; Deputy Perm. Rep. to UN 1968; Minister, later Amb., and Perm. Rep. at UN Office, Geneva 1970-72; State Commr. for Foreign Affairs 1972-74, 1976-77, March 1979-, [illegible] Political Bureau of the Mouvement populaire de la révolution 1972-77, March 1979-, National Security

Council March 1979-, Dir. 1974-77; Vice-Pres. Exec. Council, presiding over Political, Economic and Finance Comm. Feb.-Aug. 1977; arrested Aug. 1977; accused of treason and sentenced to death, sentence commuted to life imprisonment Sept. 1977.

NHU, Madame (see Ngo Dinh Nhu, Madame).

NI CHIH-FU; Chinese engineer; started work at the age of twelve in Japanese-owned factory; invented "Ni Chih-fu drill-head" 1953; Engineer Peking No. 1 Machine Tool Plant 1964; mem. 9th Cen. Cttee. of CCP 1969; active in Labour Union activities 1970-; Alt. mem. Politburo, 10th Cen. Cttee. of CCP 1973; 2nd Sec. Shanghai Party Cttee. 1976-; mem. Politburo, 11th Cen. Cttee. of CCP 1977. *Address:* People's Republic of China.

NIARCHOS, Stavros Spyros, LL.D.; Greek shipowner; b. 3 July 1909; m. 1st Eugenie Livanos 1947 (died 1970); four c.; m. 2nd Tina Livanos 1970 (died 1974); ed. Athens Univ; joined family grain and shipping business; started ind. shipping concern 1939; served in R.H.N.V.R. 1941-45; Hon. Naval Attaché, Greek Legation, Washington 1944-48; returned to shipping business; pioneered supertankers; head of Niarchos group of cos.; Grand Cross, Order of the Phoenix, Commdr. of Order of George I, Commdr. Order of St. George and St. Constantine. *Address:* c/o Niarchos (London) Ltd., 41-43 Park Street, London, W.1, England.

NIAZI, Maulana Kausar; Pakistani journalist and politician; b. 21 April 1934; ed. Punjab Univ; fmr. Editor Tasneem (daily), Lahore and later Kausar, Lahore; f. Shahab (weekly) 1960; Information Sec. Pakistan People's Party 1970-; political imprisonment 1970; elected [redacted] Nat. Ass. while in prison 1970; Adviser to Pres. for Information and Religious Affairs 1971-; Minister of Information and Broadcasting, Auqaf and Haj 1972-74, of Religious Affairs 1974-77, of Minority Affairs Overseas 1976-77; detained July 1977. *Publications:* several books on religious, historical and literary topics. *Address:* c/o Ministry of Religious Affairs, Islamabad, Pakistan.

NICHOLAS, Sir Herbert Richard (Harry), Kt., O.B.E.; British political party executive; b. 13 March 1905, Bristol; s. of Richard Henry and Rosina Nicholas; m. Rosina Grace Brown 1932; ed. elementary school, Avonmouth, Bristol, and evening classes and correspondence courses; Clerk, Port of Bristol Authority 1919-36; District Officer, Transport and Gen. Workers' Union, Gloucester 1936-38, Regional Officer, Bristol 1938-40, Nat. Officer, London (Commercial Road Transport Group) 1940-42; Chemical Section, T.G.W.U. 1942-44, Metal and Eng. Group 1944-56, Asst. Gen. Sec. 1956-68 (Acting Gen. Sec. 1964-66); mem. Nat. Exec. Cttee., Labour Party 1956-64, 1967-68; mem. TUC Gen. Council 1964-66; Treas., Labour Party 1960-64; Gen. Sec. Labour Party 1968-72. *Leisure interests:* rugby football, fishing, reading, gardening. *Address:* 33 Madeira Road, Streatham, London, S.W.16, England. *Telephone:* 01-769 7989.

NICHOLLS, Sir Douglas (Ralph), K.C.V.O., O.B.E.; Australian clergyman and State Governor; b. 9 Dec. 1906, Cummeragunga, N.S.W.; s. of H. Nicholls; m. Gladys Bux 1942; one s. one d.; ed. at Cummeragunga; fmr. Pastor, Churches of Christ Aborigines' Mission, Fitzroy, Victoria; Dir. Aborigines Advancement League 1969-76; Gov. of South Australia 1976-77; fmrly. a leading Aboriginal athlete and footballer, winner of Nyah Gift and Warracknabeal Gift, Fourth Melbourne Thousand 1929; played football for Victoria in inter-state matches. *Publications:* contributions in Aborigines Advancement League quarterly magazine. *Address:* 688 Canterbury Road, Vermont, Victoria 3133, Australia.

NICHOLS, Beverley; British writer; s. of John and Pauline Nichols; ed. Marlborough and Balliol Coll., Oxford; Editor The American Sketch, New York 1928-29; contrib. features Sunday Chronicle. *Publications:* Prelude, Patchwork, Self, Crazy Pavements, Are They the Same at Home? Twenty-Five, The Star-Spangled Manner, Women and Children Last, Evensong, Down the Garden Path, For Adults Only, A Thatched Roof, Failures, Cry Havoc!, A Village in a Valley, The Fool Hath Said . . ., No Place Like Home, News of England, Revue, Green Grows the City, Men do not Weep, Verdict in India, The Tree That Sat Down, The Stream That Stood Still 1947, All I Could Never Be 1949, Uncle Samson 1950, The Magic Mountain 1950, Merry Hell 1951, A Pilgrim's Progress 1952, Laughter [redacted] the Stairs 1953, No Man's Street 1954, The Moonflower 1955, Sunlight on the Lawn 1956, Death to Slow Music 1957, The Rich Die Hard, The Sweet and Twenties 1958, Murder by Request 1960, Cats A.B.C., X.Y.Z., A Case of Human Bondage 1966, The Art of Flower Arrangement 1967, Garden Open Tomorrow 1969, The Sun in My Eyes 1969, The Wickedest Witch in the World 1971, Father Figure (autobiog.) 1972, Down the Kitchen Sink 1974, The Unforgiving Minute (autobiog.) 1978; *plays:* The Stag 1929, Cochran's 1930 Revue 1930, Avalanche 1931, Evensong (with Edward Knoblock) 1932, When the Crash Comes 1933, Dr. Mesmer 1934, Floodlight 1937, Song on the Wind (operetta) 1948, Shadow of the Vine 1949, Lady's Guide 1950. *Leisure interests:* gardening, music. *Address:* Sudbrook Cottage, Ham Common, Surrey, England.

NICHOLS, Mike; American entertainer, stage and film director; b. Michael Igor Peschkowsky 6 Nov. 1931, Berlin, Germany (family name changed 1939); m. twice; one d.; ed. private schools and Univ. of Chicago; started Playwrights Theatre Club, Chicago which became the Compass Players and later Second City; formed improvised nightclub double-act with Elaine May, touring for two years and recording television programmes and record albums; appeared in An Evening with Mike Nichols and Elain May New York 1961-62; acted in Shaw's St. Joan and directed The Importance of Being Earnest, Vancouver; *directed shows:* Barefoot in the Park New York 1963, The Knack 1964, Luv 1964, The Odd Couple 1965, The Apple Tree 1966, The Little Foxes 1967, Plaza Suite 1968; *directed films:* Who's Afraid of Virginia Woolf? 1966, The Graduate 1967, Catch-22 1969, Carnal Knowledge 1971, Prisoner of Second Avenue 1971, Day of the Dolphin 1973, The Fortune 1975, Streamers 1976; producer Annie (New York) 1977; Antoinette Perry (Tony) awards for direction Barefoot in the Park, Luv, The Odd Couple, Plaza Suite; Oscar for The Graduate; Emmy award for television programme Julie and Carol at Carnegie Hall; Nat Asscn. Theatre Owner's Achievement Award for direction for Who's Afraid of Virginia Woolf? *Leisure interests:* Arabian horse breeding. *Address:* c/o Marvin Meyer, Rosenfeld, Meyer and Susman, 9601 Wilshire Boulevard, Beverly Hills, Calif. 90210, U.S.A.

NICHOLS, Thomas S.; American businessman; b. 8 May 1909, Cambridge, Md.; s. of John P. and Emma M. Nichols; m. Tatiana McKenna 1971; one s. one d.; ed. Univ. of Pennsylvania; with E. I. du Pont de Nemours & Co. 1926-37; Vice-Pres. and Dir. Prior Chemical Corpn. 1937-48; Pres. Chair. and Dir. Mathieson Chemical Corpn., N.Y. 1948-54, merged with Olin Industries Inc., forming Olin Corpn., Pres. 1954-57, Chair. of Board 1957-63, Chair. of Exec. Cttee. 1963-74; Dir. of Olin, other companies and official of numerous educational and business orgs. *Leisure interests:* hunting, fishing, golf. *Address:* 460 Park Avenue, New York, N.Y. 10022 (Office); P.O. Box 253, Owings Mills, Maryland 21117, U.S.A. (Home). *Telephone:* 301-833-3140 (Home).

NICHOLSON, Ben, O.M.; British artist; b. 10 April 1894, Denham; s. of Sir William Nicholson and Mabel Pryde; m. 1st Winifred Roberts (dissolved), two s. one d.; [redacted] 2nd Barbara Hepworth 1931 (dissolved), one s. two d.; m. 3rd Dr. Felicitas Vogler 1957; ed. Heddon Court, Cockfosters, Gresham School (one term), Slade School of Art (one term); works in Tate Gallery, Victoria and Albert Museum, Kettle's Yard, Univ. of Cambridge, Arts and British Council collections, galleries in Europe, U.S.A. Canada, Australia, S. America, Japan, etc.; retrospective exhbns. at Temple, Newsam, Leeds 1944, Venice Biennale 1954, Stedelijk Museum, Amsterdam 1954, Musée d'Art Moderne, Paris 1955, Palais des Beaux Arts, Brussels 1955, Kunsthalle, Zürich 1955, Tate Gallery, London 1955, 1956, 1969, 1970, São Paulo 1957, Rio de Janeiro 1958, Buenos Aires 1958, Kunsthaus, Berne 1959, Marlborough Gallery, London 1967, 1971, Galerie Beyeler, Basle 1968, Waddington and Tooth Gallery 1978; First Prize 39th Carnegie Int. Exhbn. 1952, Ulissi Prize XXVII Venice Biennale 1954, Gov. of Tokyo Award, 3rd Int. Exhbn., Tokyo 1955, Grand Prix, 4th Int. Exhbn., Lugano 1956, U.S.A. Guggenheim Int. Award 1956, Int. Prize for painting, IVth Bienal, São Paulo, Brazil 1957, Rembrandt Prize, Goethe Foundation 1974. *Publications:* Lund Humphries (Monograph Ben Nicholson), Paintings, Reliefs and Drawings, Vol. 1, 1948, Vol. 2, 1956 (introduction by Sir Herbert Read); Monograph BN— The meaning of his art (introduction by Dr. J. P. Hodin) 1957; Monograph BN (introduction by Sir John Summerson) 1948, Monograph BN (introduction by David Baxandall) 1962, Monograph BN (introduction by Sir Herbert Read) 1962, Monograph BN (introduction by Ronald Alley) 1963, Drawings, Paintings and Relief 1911-1968 1969, Monograph BN 1911-1969 (introduction by John Russell), Monograph BN (ed. M. de Sausmarez) 1969. *Address:* c/o Banca della Svizzera, Locarno, Ticino, Switzerland.

NICHOLSON, Jack; American actor and film maker; b. 22 April 1937, Neptune, N.J.; s. of John and Ethel May Nicholson; m. Sandra Knight 1961 (divorced 1966); one d.; *Films include:* Cry-Baby Killer 1958, Studs Lonigan 1960, The Shooting (produced and acted), Ride the Whirlwind (wrote, produced and acted), Hell's Angels on Wheels 1967, The Trip (wrote screenplay) 1967, Head (co-scripted, co-produced) 1968, Psych-Out 1968, Easy Rider 1969, On [redacted] Clear Day You Can See Forever 1970, Five Easy Pieces 1971, Drive, He Said (directed) 1971, Carnal Knowledge 1971, The King of Marvin Gardens 1972, The Last Detail 1973, Chinatown 1974,

The Passenger 1974, Tommy 1974, The Fortune 1975, The Missouri Breaks 1975, One Flew over the Cuckoo's Nest 1975 (Acad. Award 1976), The Last Tycoon 1976. *Address:* c/o Sandy Bresler & Assocs., Suite 206, 360 North Bedford Drive, Beverly Hills, Calif. 90210, U.S.A.

NICHOLSON, Sir John (Norris), Bt., K.B.E., C.I.E., J.P.; British shipping executive; b. 19 Feb. 1911; ed. Winchester Coll. and Trinity Coll., Cambridge; Capt. 4th Cheshires (T.A.) 1939-41; Ministry of War Translator, India and S.E. Asia 1942-46; Chair. Liverpool Port Employers' Assn. 1957-61, Martins Bank Ltd. 1962-64 (Deputy Chair. 1959-62), Cttee. of European Nat. Shipowners' Asscns., Man. Cttee. H.M.S. Conway 1958-65, Ocean Steam Ship Co. Ltd. 1957-71; Dir. Ocean Steam Ship Co. Ltd., Barclays Bank Ltd., Royal Insurance Co. Ltd., Martins Bank Ltd.; mem. Shipping Advisory Panel 1962-64; Pres. U.K. Chamber of Shipping 1970-71; Vice-Lord-Lieutenant and Keeper of the Rolls, Isle of Wight 1974-; mem. and Econ. Social Cttee., EEC 1973-74. *Address:* 22 Hamilton Terrace, London NW8 9UG, England.

NICKERSON, Albert Lindsay, B.SC.; American business executive; b. 17 Jan. 1911, Dedham, Mass.; s. of Albert L. Nickerson and Christine Atkinson; m. Elizabeth Perkins 1936; [redacted] s. three d.; ed. Harvard Univ.; began as service station attendant, Socony Mobil Oil Co. Inc. 1933; elected to Board of Dirs. Mobil Oil Co. Ltd., London 1945, Chair. 1946; Dir. Socony Mobil Oil Co. Inc. (now called Mobil Oil Corpn.) 1946-75, Vice-Pres., Dir. 1951, Pres. 1955, Chair. Exec. Cttee. and Chief Exec. Officer 1958-69, Chair. of the Board 1961-69; Dir. and Treas. American Petroleum Inst. 1965-66, Treas. 1966-68; Dir. Fed. Reserve Bank of New York 1964-67; Trustee, Rockefeller Univ., Peter Bent Brigham Hospital, Boston, Boston Symphony Orchestra, Affiliated Hospitals Center, Inc., Boston; Fellow of Harvard Coll. 1965-75, Overseer of Univ. 1959-65; Chair. Balance of Payments Advisory Cttee. of U.S. Dept. of Commerce; Chair. The Business Council 1966-68; Dir. Metropolitan Life Insurance Co., Raytheon Co., Federal Street Fund Inc., State Street Investment Corpn, Harvard Man. Co.; Gen. Partner State Street Exchange Fund; mem. Corpn. Woods Hole Oceanographic Inst., The Business Council. *Address:* Lexington Road (Box 346), Lincoln, Mass. 01773, U.S.A.

NICOL, Davidson Sylvester Hector Willoughby, M.A., M.D., PH.D.; Sierra Leonean diplomatist, scientist and educationist; b. 14 Sept 1924, Freetown; m. Dr. Marjorie Nicol, M.B., CH.B., M.P.H. 1950; three s. two d.; ed. Prince of Wales School, Freetown, Cambridge Univ., London Hospital; medical and scientific research and teaching, London, Nigeria and Cambridge 1950-59; Senior Pathologist, Sierra Leone Govt. 1958-60, Hon. Consultant Pathologist 1960-; guest lecturer numerous American univs.; Principal, Fourah Bay Coll., The Univ. Coll. of Sierra Leone, Freetown 1960-67; Vice-Chancellor, Univ. Sierra Leone 1966-68; Chair. Conf. of Inter-Univ. Co-operation in W. Africa 1961, Needs and Priorities Cttee., Univ. of E. Africa 1963, Sierra Leone Nat. Library Board; attended WHO Annual Meetings 1959, 1960, UNESCO Conf. [redacted] Higher Educ. 1963, OAU Defence Comm. 1965, Commonwealth Prime Ministers Conf. 1965, 1968, 1971; Pres. Sierra Leone Nat. Red Cross Soc. 1963-65, W. African Science Assn. 1963-65; Vice-Pres. African Univs. Assn. 1965-68; Dir. Cen. Bank Sierra Leone 1963-68; Perm. Rep. to UN 1969-71, mem. Econ. and Social Council 1969-70, Security Council 1970-71, Chair. Special Cttee. on Decolonization 1970; High Commr. to U.K. and Amb. to Denmark, Sweden, Finland, and Norway 1971-72; Under-Sec.-Gen. UN and Exec. Dir. UNITAR Sept 1972-; Commonwealth Lecturer (Cambridge) 1975; Chair. UN Interagency Humanitarian Mission to Angola 1976; Dir. Central Bank of Sierra Leone, Consolidated African Selection Trust Ltd. (London); Fellow, Christ's Coll., Cambridge, Royal Coll. of Pathologists, London; Hon. D.Sc. (Newcastle upon Tyne, and Kalamazoo Coll. Mich.); Hon. LL.D. (Leeds); Hon. D.Litt. (Davies and Elkins Coll.); Margaret Wrang Prize for Literature in Africa 1952; Independence Medal (Sierra Leone); Grand Commdr. Order of Rokel; Grand Commdr. Star of Africa (Liberia); Companion of Order of St. Michael and St. George. *Publications:* The Structure of Human Insulin 1960, Africa, A Subjective View 1964, African Self-Government 1865: The Dawn of Nationalism 1969, The Truly Married Woman and Other Stories 1965, New and Modern Role for the Commonwealth 1976, United Nations and Decision Making. *Leisure interests:* creative writing, numismatics, travel. *Address:* UNITAR, 801 United Nations Plaza, New York, N.Y. 10017, U.S.A. *Telephone:* 212-PL-8621.

NICOL-COLE, Silvanus B., C.M.G., O.B.E.; Sierra Leonean banking executive; b. 8 Aug. 1920, Nigeria; s. of Joseph B. and Evelyn M. Cole (née Nicol); m. Rebecca Benjamin 1948; three d.; ed. Durham and Oxford Univs.; Part-time Lecturer in Applied Econs., Fourah Bay Coll.; Asst. Sec., Deputy Perm. Sec. Ministry of Trade 1949-60; Asst. Sec. Ministry of Devt. 1960-62; Deputy Gov. Bank of Sierra Leone 1962-66, Gov. 1966-70; Alt. Gov. IMF 1966-70, Alt. Exec. Dir. 1970-72, Exec. Dir. 1972-74; Deputy Man. Dir. Barclays Bank of Sierra Leone Ltd. 1974-76, Chair. 1976-; Grand Commdr. Order of Rokel 1979. *Leisure interests:* swimming, hunting, gardening, fishing. *Address:* Barclays Bank of Sierra Leone Ltd., 25-27 Siaka Stevens Street, P.O. Box 12, Freetown, Sierra Leone. *Telephone:* 22501.

NICOLETTI, Antonio Marcello, LL.D.; Italian banker and international official; b. 20 March 1930, Palermo; s. of Giuseppe Nicoletti; m. (separated); two s.; ed. Nobile Collegio di Mondragone, Istituto Massimo di Roma (secondary educ.), Univ. of Rome; joined Istituto Mobiliare Italiano (IMI), Rome 1948; engaged in legal service and econ. research and foreign depts., with responsibility for foreign negotiations; Asst. Dir. Foreign Dept., IMI 1968-73; Dir.-Gen. for Credit and Investments, Comm. of EEC Oct 1973-; Commendatore, Ordine al Merito dell'Ordine della Repubblica Italiana. *Leisure interests:* theatre, cinema, amateur film making. *Address:* Commission of the European Communities, Directorate-General for Credit and Investments, D.G. XVIII, Bâtiment Jean Monnet, Kirchberg, Grand Duchy of Luxembourg.

NICOLIN, Curt René; Swedish company executive; b. 10 March 1921, Stockholm; s. of Felix and Anna-Lisa Nicolin; m. Ulla Sandén 1946; three s. two d.; ed. Royal Inst. of Tech., Stockholm; with STAL Finspong 1945-59, Vice-Pres. and Tech. Dir. 1953-55, Pres. 1955-59; Pres. Turbin AB de Laval Ljungström, Finspong 1959-61; Interim Pres. Scandinavian Airlines System (SAS) 1961-62, now Swedish Chair. SAS; Pres. ASEA AB, Västerås 1961-76, Chair. of Board 1976-; Chair. Swedish Employers' Fed. 1976-; Dr. Tech. h.c. 1974; Commdr., Order of Vasa, First Class 1974. *Publication:* Private Industry in a Public World 1973. *Leisure interests:* tennis, sailing. *Address:* ASEA, Box 7373, 103 91 Stockholm, Sweden. *Telephone:* 08-24-59-50.

NICOLSON, Sir David Lancaster, Kt., F.C.G.I., B.SC., C.ENG., F.I.MECH.E., F.B.I.M., F.R.S.A.; British engineer and company executive; b. 20 Sept 1922, London; s. of Charles Tupper Nicolson and Margaret Lancaster Nicolson; m. Joan Eileen Griffiths 1945; [redacted] s. two d.; ed. Haileybury and Imperial Coll., London Univ.; Constructor-Lieut., Royal Corps of Naval Constructors 1942-45 (mentioned in despatches); Man. Consultant, Production Eng. Ltd. 1946-50, Man., later Dir. 1953-62; Production Man. Bucyrus-Erie Co., Milwaukee, U.S.A. 1950-52; Chair. P-E Consulting Group Ltd. 1963-68, Man. Consultants Assn. 1964, Assoc. British Maltsters Ltd. 1965-71, NEDC Cttee. for Hosiery and Knitwear 1966-68, Canada Cttee. of British Nat. Export Council 1967-71, BTR Ltd. 1969-, Howden Group Ltd. 1971-72, British Airways Board 1971-75, Rothmans Int. Ltd. 1975-, BTR Inc. 1976-; Dir. Delta Metal Co. Ltd. 1967-, Bank of Montreal 1970-, Richard Costain Ltd. 1970-78, MEPC Ltd. 1976-, Todd Shipyards Corpn. 1976-, Alfred Dunhill Ltd. 1976-, Tradewinds Airways Ltd. 1977-, Drayton Consolidated Trust Ltd. 1977-, Altrans Group of Canada Ltd. 1977-, Ciba-Geigy (U.K.) 1978-, Carling O'Keefe Ltd. 1978-; mem. Council, Inst. of Dirs. 1971-76, British Inst. of Man. 1964-69, Inst. of Production Engs. 1966-68, City and Guilds of London Inst. 1968-76; mem. European Parl. for London Central 1979-; Gov. Imperial Coll., London Univ. 1966-77; mem. Science Research Council 1970-71, British Shipbuilding Mission to India 1957; Fellow of Inst. of Production Engs. and of Imperial Coll., London Univ. *Publications:* contributions to technical journals, lectures and broadcasts on man. subjects in U.K., U.S.A., Australia and other countries. *Leisure interests:* sailing, collecting old books. *Address:* Rothmans International Ltd., 15 Hill Street, London, W1 (Office); Howicks, Dunsfold, Surrey (Home) and 10 Fordie House, Sloane Street, London, S.W.1, England (Home). *Telephone:* 01-491 4366 (Office); Dunsfold 296; and 01-235 0053.

NICULESCU, Paul; Romanian politician; b. 25 Nov. 1923, Bucharest; ed. Acad. of Higher Commercial and Industrial Sciences, Bucharest; Prof. at Bucharest Univ., later at "Stefan Gheorghiu" Acad. of Social and Political Sciences, Bucharest; mem. Romanian CP 1945-, mem. Cen. Cttee. 1955-, mem. Exec. Political Cttee. 1965- and Sec. of Cen. Cttee 1965-72; mem. Perm. Presidium of Cen. Cttee. 1966-74; mem. Standing Bureau 1978-; Deputy to Grand Nat. Ass. 1957-; Chair. Standing Comm. for Culture and Educ. of Grand Nat. Ass. 1966-69; mem. Nat. Council of Socialist Unity Front 1968-; [redacted] Defence Council 1969-74; Deputy Chair. Council of Ministers 1972-, Minister of Educ. 1972-76, of Finance 1978-; Chair., Council for the co-ordination of consumer goods production 1976-; mem. Acad. of Social and Political Sciences 1970; Hero of Socialist Labour 1971. *Address:* Ministerul Finanţelor, Str. Doamnei 8, Bucharest, Romania. *Telephone:* 13-20-00.

NIEH FENG-CHIH; Chinese army officer; Commdr. 27th Corps, East China Field Army 1948; Educational Dir., East China Mil. Acad. 1949; Commdr. Air Force units, Nanking Mil. Region, PLA 1954-68; Deputy Commdr. Nanking Mil. Region, PLA 1975, Commdr. 1977-; [illegible] 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

NIEH JUNG-CHEN, Marshal; Chinese politician and fmr. army officer; b. 1899, Chiang-tsin, Szechuan; ed. Univ. de Travail, France, Far Eastern and Red Army Univs., Moscow; joined CCP 1923; Political Instructor, Whampoa Mil. Acad. 1925; participated in Nanchang and Canton Uprisings 1927; Political Commissar 10th Army Corps 1931-36; Commdr. Shansi-Chaha-Hopei Field Army 1937-48; mem. 7th Cen. Cttee. of CCP 1945; Mayor of Peking 1949-51; Vice-Chair. Nat. Defence Council 1954-; Marshal 1955; mem. 8th Cen. Cttee. of CCP 1956; Vice-Premier, State Council 1956-74; Chair. Scientific and Technological Comm. 1958-78; mem. 9th Cen. Cttee. of CCP 1969, 10th Cen. Cttee. 1973, Politburo, 11th Cen. Cttee. 1977; Exec. Chair. Presidium 5th Nat. People's Congress 1978; Vice-Chair. Standing Cttee. 5th Nat. People's Congress 1978-; Vice-Chair. Mil. Comm. CCP Cen. Cttee. 1978-. *Address:* People's Republic of China.

NIELSEN, (Hans Karl) Helge; Danish politician; b. 12 Oct. 1918, Copenhagen; s. of late Johan G. and Sofie P. (née Poulson) Nielsen; m. Alice Larsen 1972; two s.; ed. primary school, Borups folk high school and workers' coll.; mem. of board, Glovers Assen. 1942-; Chair. Nordic Glovers' Union 1950-60; teacher, workers' coll. 1956-70; mem. Parl. 1960-; Sec. to Parl. Group of Social Democratic Party 1965-71; mem. Nordic Council 1966-68; mem. Finance Cttee. 1968-70; Minister of Housing 1971-73, of Environmental Protection 1973-75, of Housing and Environmental Protection 1975-77; Man. Dir. Almennyttigt Saneringsselskab, s.m.b.a. 1977-. *Publications:* Contributions to political magazines. *Leisure interest:* gardening. *Address:* Askeengen 40, 2740 Skovlunde, Denmark. *Telephone:* 94-10-66.

NIELSEN, K(nud) Axel; Danish lawyer and politician; b. 10 Feb. 1904, Hvorup; s. of Christen and Else Nielsen; m. Helga K. Behrens 1933; two s. two d.; ed. Univ. of Copenhagen; Lawyer 1932-; mem. Parl. 1953-73; Minister of Justice 1964-68, 1971-73; mem. Nordic Council 1968-73; Chair. Danish Traffic-safety Council 1969-71; Town Councillor 1974-78; Social Democrat. *Leisure interest:* literature. *Address:* Munksvej 4, 9560 Hadsund, Denmark. *Telephone:* Hadsund (08) 57-20-04.

NIELSEN, Niels, DR.PHIL.; Danish geographer; b. 3 Oct. 1893; ed. Copenhagen Univ. and Sorbonne, Paris; Geographical investigations Iceland 1923, 1924, and 1927; expeditions to Vatnajökull Iceland 1934 and 1936; Head Skalling Lab. (Inst. for research [illegible] tides, dunes and salt marshes) 1930; Vice-Pres. Royal Danish Geographical Soc. 1931; Danish Sec. Union Int. de Géographie 1934; Prof. Geography Univ. of Copenhagen 1939-64; Editor Geografisk Tiddskrift, Meddelelser fra Skalling Laboratoriet, Folia Geographica Danica, Kulturgeografiske Skrifter; Chief Editor Meddelelser om Grønland. *Publications:* La production du fer en Jutland 1926, Evidence of the Extraction of Iron in Greenland by the Norsemen 1929, Contributions to the Physiography of Iceland 1932, Eine Methode zur exakten Sedimentationsmessung 1935, Vatnajökull 1937, Atlas of Denmark, Vol I 1949. *Address:* Strandvejen 227 B, 2920 Charlotterlund, Denmark.

NIELSEN, Sivert Andreas; Norwegian diplomatist; b. 24 Nov. 1916, Copenhagen; s. of Konrad Nielsen; m. Harriet Nielsen (née Eyde) 1945; one s. one d.; ed. Oslo Univ.; worked Bank of Norway 1940-41; political prisoner 1941-45; Deputy Attorney Oslo Police 1945-46; UN Secr. 1946-48; Sec. Norwegian Embassy, Washington 1948-50; Section Chief, Ministry of Defence 1951-51; Dir. NATO Int. staff 1950-51; Div. Chief, Ministry of Defence 1952-55; Under-Sec. for Defence 1955-58; Permanent Del. to UN 1958-66; participated in preparatory work NATO and ministerial confs. NATO 1949-58; rep. Advisory Cttee. to Sec.-Gen. UNEF 1958; Norwegian Rep. on UN Security Council 1963-64, Chair. or Vice-Chair. Norwegian Del. to 13th-21st Sessions of Gen. Ass. of UN; Gen. Man. Bergens Privatbank, Oslo 1966-76; Chair. Board Norwegian Agency for Int. Devt. 1969-75; Dir. Finanzierungsgesellschaft Viking, Zürich, Deutsche Schiffahrtsbank, Bremen, Banque Scandinave en Suisse, Geneva 1968-76, Fredriksstad Mek. Verksted Shipyard 1977-. *Address:* c/o Lorentzen Chartering, Haakon VII's gt. 6, Oslo 1, Norway. *Telephone:* 41-10-10.

NIELSEN, Sven Aage; Danish diplomatist; b. 23 June 1921; Herning; s. of Carl Nielsen; m. Aase Espersen 1953; two d.; ed. Aarhus Univ.; Danish Foreign Service 1947-, served Bucharest, Belgrade, Athens, Buenos Aires 1947-62; Deputy Head of Secr. for Tech. Co-operation with the Developing Countries, Copenhagen 1962-63; Deputy Head Danish Del. to OECD 1963-65, Head 1965-68; Minister (Economic, Commercial and Consular), Danish Embassy, London 1968-73; Amb. to Iceland 1973-77. *Address:* c/o Ministry of Foreign Affairs, Copenhagen, Denmark.

NIEMEYER, Gerhart, American political scientist; b. 1907; ed. Cambridge, Munich and Kiel Univs. Lecturer, Law Faculty, Madrid Univ. 1933; Research Assoc., Inst. of Int. and Econ. Studies, Madrid 1934; Prof. Fed. Spanish Asscns. Int. Studies 1934; Lecturer in Politics, Princeton Univ. 1937, Asst. Prof. 1940-44; Visiting Lecturer, Yale Univ. 1942; Prof. of Political Science, Oglethorpe Univ. 1944-50; Assoc. Prof. Yale Univ. Summer 1946; Visiting Prof. Columbia Univ. Summer 1952; U.S. Dept. of State 1950-53; Council on Foreign Relations 1953-55; Yale Univ. 1954-55; Univ. of Notre-Dame 1955-76, The Nat. War Coll. 1958-59; Fulbright Prof. Univ. of Munich 1962-63, Co-Dir. Inst. of Communism and Constitutional Democracy, Vanderbilt Univ. 1962-66, Foreign Policy Task Force, Republican Party 1965-68; Distinguished Visiting Prof., Hillsdale Coll. 1976-; Special Consultant, U.S. Information Agency 1973; ordained Deacon, Episcopal Church 1973. *Publications:* Einstweilige Verfügungen des Weltgerichtshofs 1932, Vom Wesen der gesellschaftlichen Sicherheit 1935, The Significance of Function in Legal Theory 1940, Law Without Force 1941, An Inquiry into Soviet Mentality 1956, Facts on Communism: 1, The Communist Ideology 1959; co-author The Second Chance 1944; Editor Hermann Heller: Staatslehre 1934; co-editor Handbuch des Weltkommunis- [illegible] 1958, Handbook on Communism 1962 (English Edn.), Hermann Heller: Gesammelte Schriften 1971, Communists in Coalition Governments 1963, Outline of Communism 1966, Deceitful Peace 1971, Between Nothingness and Paradise 1971. *Address:* 806 East Angela Boulevard, South Bend, Ind. 46617, U.S.A. *Telephone:* 219-234-9949.

NIEMEYER, Oscar; Brazilian architect; b. 15 Dec. 1907, Rio de Janeiro; ed. Escola Nacional de Belas Artes, Rio de Janeiro; designed Ministry of Educ. and Health Building, Rio de Janeiro 1937-43, Brazilian Pavilion, New York World Fair 1939, with others designed UN building New York 1947; Dir. of Architecture for new capital of Brasília and given a free hand in design of public and other buildings 1957-; Designer of Bienal Exhbn. Hall, São Paulo, urban [illegible] of Grasse (near Nice) 1966, French CP bldg., Paris 1966, Palace of Arches (for Foreign Ministry) Brasília; Lenin Peace Prize 1963, Prix Int. de l'Architecture d'aujourd'hui 1966. *Address:* Rua Carvalho Azevedo 96, Rio de Janeiro, RJ, Brazil.

NIEMÖLLER, (Friedrich Gustav Emil) Martin; German theologian; b. 14 Jan. 1892, Lipstadt, Westphalia; s. of Pastor Heinrich Niemöller and Paula Müller; m. 1st Else Bremer 1919 (died 1961); four s. (one deceased) three d. (one deceased); m. 2nd Sibylle von Sell 1971; ed. Elberfeld Gymnasium and Univ. of Münster; served in German Navy 1910-18, becoming submarine commdr.; ordained 1924; Man. Provinzialverband der Inneren Mission, Westfalen 1924-31; Pastor Berlin-Dahlem 1931-37; founder and Pres. Pfarrer-Notbund (Pastors' Union) and Die Bekennende Kirche (Confessing Church); imprisoned Sachsenhausen and Dachau concentration camps 1937-45; Pres. Kirchliches Aussenamt (Office for External Relations of Evangelical Church in Germany) 1945-56; Pres. Evangelical Church in Hesse and Nassau 1947-64; Pres. World Council of Churches 1961-68; Hon. D.D. (Göttingen, St. Louis, Halifax, Prague, Puerto Rico, Chicago, Bethany Biblical Seminary, Budapest, Bratislava, London, Ontario); Hon. D.Litt. (New Delhi); Lenin Peace Prize 1967; Grosskreuz des Bundesverdienstordens 1970. *Publications:* Vom U-Boot zur Kanzel 1934; sermons: . . . dass wir [illegible] Ihm bleiben 1938, Alles und in allen Christus! 1935, Dennoch getrost 1939, Ach Gott vom Himmel sieh darein 1946, . . . zu Verkündigen ein gnädiges Jahr des Herrn! 1946, Herr ist Jesus Christus 1946, Herr, wohin sollen wir gehen? 1957, Reden (1945-54) 1958, Reden (1955-57) 1958, Reden (1958-61) 1961, Reden (1961-63). *Address:* Brentanostrasse 3, Wiesbaden, Federal Republic of Germany.

NIER, Alfred O(tto) C(arl), M.S.E.E., PH.D.; American physicist; b. 28 May 1911; s. of August C. Nier and Anna J. Stoll; m. 1st Ruth E. Andersen 1937, 2nd Ardis L. Hovland 1969; one s. one d.; ed. Univ. of Minnesota; Nat. Research Fellow, Harvard Univ. 1936-38; Asst. Prof. Univ. of Minn. 1938-40, Assoc. Prof. 1940-44, Prof. of Physics 1944-66 (on leave for war work 1943-45), Regents' Prof. of Physics 1966-; first to separate rare isotope of uranium U-235, 1940; mem. Nat. Acad. of Sciences, American Philosophical Soc., Max-Planck Inst. für Chemie and others. *Address:* University of Minnesota, Minneapolis, Minn. 55455, U.S.A. *Telephone:* 612-373-3325.

NIERENBERG, William Aaron, PH.D.; American physicist; b. 13 Feb. 1919, New York, N.Y.; s. of late Joseph Nierenberg and of Minnie Nierenberg (née Drucker); m. Edith Meyerson 1941; one s. one d.; ed. Townsend Harris Hall, New York, City Coll. of New

York, Univ. of Paris and Columbia Univ.; Tutor, City Coll. of New York 1942; Physicist, Manhattan Project 1941-45; Instructor, Dept. of Physics, Columbia Univ. 1948; Asst. Prof. Dept. of Physics, Univ. of Mich. 1950; Asst. Prof. Univ. of Calif., Berkeley 1950-55; Hudson Labs., Dobbs Ferry, N.Y. 1951, Project Dir. 1954; Prof. Physics, Univ. of Calif., Berkeley 1955-65; Asst. Sec.-Gen. of NATO 1960-62; Prof. Associé, Univ. Paris 1960-62; Prof. Dept. of Physics, Univ. of Calif., San Diego 1965-, Vice-Chancellor, Marine Sciences 1969-; Dir. Scripps Inst. of Oceanography, La Jolla, Calif. 1965-; Consultant, Office of Science and Tech. 1958-68; Adviser-at-Large, Dept. of State; mem. White House Task Force on Oceanography 1970; mem. Nat. Advisory Cttee. on Oceans and Atmosphere 1971-75, Chair. 1975-77; Senior Consultant to Pres.'s Science Adviser 1976; sometime consultant or adviser to various industrial corpns., govt. agencies, etc.; mem. Nat. Acad. of Sciences, Nat. Science Board, American Acad. of Arts and Sciences, American Philosophical Soc., Joint U.S.-U.S.S.R. Cttee. for the U.S.S.R. Agreement for Co-operative Studies of the World Ocean; Nat. Research Council Fellowship, Guggenheim Fellowship, Sloan Foundations Grant, NATO Senior Science Fellowship, etc.; Proctor Prize, Sigma xi, 1977; Officier Ordre national du Mérite (France), Golden Dolphin Award (Assen. Artistico Letteraria Internationale), Compass Award of the Marine Tech. Soc. 1975. *Publications:* About 130 articles in professional journals. *Leisure interests:* flying, hunting. *Address:* Scripps Institution of Oceanography, University of California at San Diego (Office); 9581 La Jolla Farms Road, La Jolla, Calif. 92037, U.S.A. (Home). *Telephone:* 714-452-2826.

NIETO CABALLERO, Agustín, LL.B.; Colombian educationist; b. 1889; ed. Colombia and U.S. Univs., Univ. de Paris, and Coll. de France; studied in U.S.A. and Europe 1904-14; co-founder and Rector Gimnasio Moderno, Bogotá, principal modern school of S. America 1914-; initiator of many educational reforms and founder of students' orgs. and insts.; Dir.-Gen. of Primary and Secondary Educ. in Ministry of Educ. and responsible for reform of primary and secondary schools 1932-36; Del. to L.N. 1931 and 1934; guest of honour World Educ. Congress, Cheltenham 1936; Pres. 5th Int. Conf. of Public Instruction, Geneva 1936; Rector Univ. Nacional de Colombia 1938-41; Pres. Colombian Del. to 8th American Scientific Congress 1940; Amb. to Chile 1941-43; mem. Nat. Council of Educ.; Head of Colombian Del. to World UNESCO Conf. Nov. 1947 and del. to many other Int. Confs. on Educ. to date; Pres. World Educ. Conf., Geneva 1958; Pres. Int. Cttee. of ten for curriculum studies UNESCO; corresp. mem. Colombian Acad., Inst. de France; Gran Oficial Cruz de Boyacá, Order of the Alliance for Progress (Pan American Union), Medalla de Oro (Spain) 1964, and other decorations. *Publications:* Rumbos de la Cultura, Los Maestros, La Segunda Enseñanza y Reformas de la Educación, Crónicas de Viaje, Crónicas Ligeras, Una Escuela. *Address:* Gimnasio Moderno, Carrera 9, No. 74-99, Bogotá, D.E., Colombia. *Telephone:* 494526.

NIETO GALLO, Dr. Gratiniano; Spanish art official; b. 6 March 1917, La Aguilera, Burgos; s. of Francisco and Genoveva Nieto Gallo; m. María de Mergelina Cano-Manuel; one s. one d.; ed. Institución Teresiana, Instituto Ramiro de Maeztu and Univ. de Madrid; Prof., Univ. de Valladolid 1940-52; Dir. Colegio Mayor Santa Cruz de Valladolid 1943-52; Sec. School of Art and Archaeology, Univ. de Valladolid 1940-52; Dir. Colegio Mayor Nebrija, Univ. de Madrid 1952-56; Tech. Sec.-Gen. Directorate of Archives and Libraries 1956-61; attached to Univ. de Murcia 1959-61; Dir.-Gen. of Fine Arts 1961-68; Dir. Central Inst. for Conservation and Restoration of Works of Art 1968-; Prof. Univ. Madrid 1968-; Pres. Univ. Autónoma de Madrid 1973-; decorations from Spain, Portugal, Malta, Fed. Repub. of Germany, Italy, France and Peru. *Publications:* La Necrópolis Ibérica del Cabecico del Tesoro 1940, 1944, 1947, Las tablas flamencas de la Igl. del Salvador de Valladolid 1941, Criterio de Reconstrucción de Objetos Arqueológicos 1941, El Oppidum de Iruña 1949, Guía Artistica de Valladolid 1954, Historia de los Monumentos de Lerma 1959, La cueva artificial del Bronco I de Alguazas 1959, Tendencias Actuales de la Arqueología 1959, Guía de la Exposición Conmemorativa de la Paz de los Pirineos 1963, Las Bellas Artes en España 1963, Conservación del Patrimonio Artistico 1968, Museos de Artes y Costumbres Populares 1968, Conservación de Objetos Arqueológicos 1969, Panorama de los Museos Españoles y cuestiones museológicas 1971, Reflexiones sobre la Universidad 1973. *Leisure interests:* swimming, rowing, mountaineering. *Address:* Universidad Autónoma de Madrid, Km. 15 Carretera de Colmenar Viejo, Canto Blanco, Madrid, Spain.

NIGRELLI, Ross F., PH.D.; American pathologist; b. 12 Dec. 1903, Pittston, Pa.; s. of Emanuela Franco and Castrenza Nigrelli; m. Margaret Carrozza 1927; one d.; ed. Pennsylvania State Univ. and New York Univ.; U.S. Dept. of Agric. 1927; Teaching Fellow Biology New York Univ. 1927-29, Inst. 1929-31; Research Fellow New York Zoological Soc. (New York Aquarium) 1931-32, Parasitologist 1932-34; Instr. Biology Coll. City of New York (Evening and Summer session) 1936-43; Instr. Biology New York Univ. 1943-45; Pathologist, Aquarium, New York Zoological Society 1934-; Adjunct Assoc. Prof. New York Univ. 1949-58; Consultant U.S. Dept. Interior 1943-48; Consultant Bingham Oceanographic Lab. Yale Univ. 1943-60; Fed. Security Agency Food and Drug Admin. 1945-; Tech. Advisory Cttee. Atlantic States Marine Fisheries' Comm. 1946-56; Dept. Marine and Aviation New York 1946-; Vice-Pres. of New York Acad. Sciences and Chair. Biology Section 1945-47, Record Sec. 1954; Adjunct Prof. of New York Univ. Graduate School Arts and Sciences 1958-; Dir. Lab. of Marine Biochemistry and Ecology, New York Zoological Soc. 1958-63, Dir. of Research 1963-65; Dir. Osborn Labs. of Marine Sciences 1964-73, Sr. Scientist and Pathologist 1973-; mem. American Soc. of Tropical Medicine, President's Advisory Cttee., Sub-panel on Biological Oceanography 1965-66, Mayor's Oceanographic Advisory Comm., New York 1968-73, Board of Govs., New York Acad. of Sciences 1970-74; Fellow, American Assen. for Advancement of Science, New York Zoological Soc., New York Acad. of Sciences (Vice-Pres. 1955-57, Pres. 1957); Hon. mem. American Soc. of Protozoologists (Pres. 1948-49), American Microscopical Soc., American Harvey Soc.; Emer. mem. American Acad. of Microbiology, Amer. Socs. of Zoologists and Parasitologists; Hon. Fellow, Consular Law Soc., Affiliate Royal Soc. of Medicine; Trustee, New York Acad. of Sciences 1959; Founding mem. New York Inst. of Ocean Resources Board 1970-72; Dir. Hudson River Environmental Soc. 1970-74; Dir. New York Aquarium 1966-70; Order of Merit, Soc. d'Encouragement pour la Recherche et l'Invention (France) 1964. *Leisure interests:* travelling, painting, gardening, golf. *Address:* New York Aquarium, West 8th Street, Brooklyn, N.Y. 11224 (Office); 27 Barracuda Road, East Quogue, Long Island, N.Y. 11942, U.S.A. (Home). *Telephone:* 212-266-8500.

NIHAL SINGH, Surendra, B.A.; Indian journalist; b. 30 April 1929, Rawalpindi (now in Pakistan); s. of Gurmukh and Lachchmi Nihal Singh; m. Geertje Zuiderweg 1957; ed. Delhi Univ.; Sub-editor with The Times of India, Delhi 1951-53; Staff Reporter, Parl. Corresp., The Statesman, Calcutta 1954-61, Special Corresp. for S.E. Asia and Far East, Singapore 1962-67, Pakistan 1967, for U.S.S.R. and Eastern Europe, Moscow 1968-69, Political Corresp., Delhi 1969-71, Special Corresp., London 1974-75, Resident Editor, Delhi 1974-75, Editor Calcutta 1975-. *Publications:* Malaysia—A Commentary 1971, From the Jhelum to the Volga 1972. *Leisure interest:* reading. *Address:* The Statesman Ltd., 4 Chowringhee Square, Calcutta 700 001; 12-C Minto Park, 13 Debendralal Khan Road, Calcutta 700 027, India. *Telephone:* 23-5361-9, 23-6211 (Office); 45-0674 (Home).

NIILUS, Leopoldo Juan; Argentine lawyer; b. 19 Jan. 1930, Tallinn, Estonia; s. of Jaan Eduard Niilus and the late Meta Kiris; m. Malle Reet Veerus de Niilus 1961; one d.; ed. primary and secondary schools in Estonia, Faculty of Law, Univ. de Buenos Aires, Southern Methodist Univ., Dallas, Tex.; fmrly. practising lawyer, Buenos Aires; founding mem. Argentine Inst. of Science and Admin. and Inst. de Sociología Económica, Buenos Aires; fmr. Exec. Cttee. and legal adviser, Iglesia Evangélica Luterana Unida (IELU) Buenos Aires; fmr. Chair. Argentine Student Christian Movement; mem. World Student Christian Fed. (WSCF) political comm.; mem. Christian Peace Conf. (CPC) working party and other orgs. dealing with socio-religious literature and research; has participated in numerous major ecumenical consultations; Dir. Argentine Dept. River Plate Centre of Christian Studies 1966-67; Gen. Sec. ISAL (Comm. for Church and Soc. in Latin America) 1968-69; Dir. Comm. of the Churches on Int. Affairs of WCC Geneva 1969-; participated in mediation for Sudan peace negotiations 1972; Order of Two Niles, 1st grade (Sudan). *Publications:* On Penal Law (essays); articles and essays in several ecumenical publications, in Cahiers Protestants (Geneva), Christianisme social (Paris), etc. *Leisure interests:* theatre, literature. *Address:* Commission of the Churches on International Affairs, World Council of Churches, 150 route de Ferney, 1211 Geneva 20 (Office); 7 Chemin Champ d'Anier, Apt. 012, Petit Saconnex, 1209 Geneva, Switzerland (Home). *Telephone:* 33-34-00 (Office); 98-32-59 (Home).

NIITAMO, Olavi Ensio, D.ECON.; Finnish economist; b. 11 Nov. 1926, Kotka; s. of Tenho Armas Niitamo and Alja Elisabet Väliaho; m. Helka Narinen 1953; three s. one d.; ed. Lyceum of Kotka and Univ. of Helsinki; Chief, Econ. Statistics Div., Central Statistical Office of Finland 1959-63, Chief, Nat. Income Statistics Div. 1963-71, Chief, Planning Div. 1971-; Docent of Econs., Univ. of Helsinki 1962-, Acting Prof. of Econs. 1964-65, Acting Prof. of Econometrics 1970-; Acting Prof. of Econs., Univ. of Tampere 1965-66; Visiting Fellow, Univ. of Calif. (Berkeley) and Harvard Univ. 1967-68; mem. Finnish Acad., mem. Cen. Research Board 1971-; Knight, First

Class of White Rose of Finland. *Publications:* several books and more than 50 articles in learned journals. *Leisure interests:* family life, car racing, cybernetics of human life. *Address:* Central Statistical Office of Finland, Annankatu 44, 00100 Helsinki 10 (Office); Pitkänkalliontie 5 C 47, 02170 Espoo 17, Finland (Home). *Telephone:* 611022 (Office); 426209 (Home).

NIJALINGAPPA, Siddavanahalli; Indian lawyer and politician; b. 10 Dec. 1902, Haluvagalu, Bellary District; s. of Adivappa and Neelamma Nijalingappa; m. Murigamma Nijalingappa 1927; three s. six d.; ed. Bangalore and Poona Univ.; Advocate in Mysore High Court 1926-39; convicted for political [illegible] 1939, disbarred 1940, imprisoned 1939-40, 1942-44, 1947; mem. Mysore Congress Working Cttee. 1939-51; Pres. State Congress 1945-46, Karnataka Provincial Congress Cttee. 1946-54; mem. Indian Constituent Ass. 1946-49, of Lok Sabha 1952-56; Chief Minister of Mysore and leader Mysore Congress Legis. Party 1956-58, 1962-68; mem. Working Cttee. of Indian Nat. Congress 1948-68; Pres. Indian Nat. Congress 1968-71, Treas. 1971-72; Chair. Indian Oil Co. 1960-62; [illegible] Lal Bahadur Shastri Memorial Trust, U.S. Mallaiah Arts and Handicrafts Trust, Sucheta Kripalani Memorial Trust, Sardar Vallabhbha; Patel Smarak Trust; Hon. LL.D. (Karnataka) 1966. *Leisure interests:* gardening, trees and forests. *Address:* Venkateshpur, Chitraduga, Karnataka, India. *Telephone:* 550.

NIKAIDO, Susumu; Japanese politician; b. 1910; ed. Univ. of Southern Calif.; mem. House of Reps.; Deputy Sec.-Gen. Liberal Democratic Party; fmr. Dir.-Gen. Science and Tech. Agency; fmr. Dir.-Gen. Hokkaido Devt. Agency; Chief Cabinet Sec. 1972-74; Sec.-Gen. Liberal Democratic Party Nov.-Dec. 1974. *Address:* House of Representatives, Tokyo, Japan.

NIKOI, Amon, PH.D.; Ghanaian banker; b. 19 Jan. 1930, Labadi, Accra; m. Gloria née Addae (Principal Sec. Minister of Foreign Affairs); three c.; ed. Achimota Coll., Amherst Coll., U.S.A., Harvard Coll., U.S.A.; Trade and Econ. Section, Embassy of Ghana, Washington 1957-59; Perm. Mission of Ghana to the UN 1959-60; Alt. Exec. Dir., IMF 1961-65, Exec. Dir. 1965-68; Principal Sec. Minister of Finance and Planning 1969-73; Gov., Bank of Ghana 1973-77; Chair. Ashanti Goldfields Corpn. *Leisure interests:* farming, gardening, walking. *Address:* c/o Bank of Ghana, P.O. Box 2674, Accra, Ghana.

NIKOLAYENKO, Boris Zinoviyevich; Soviet foreign trade official; b. 5 March 1914; ed. Moscow Power Inst.; Acad. of Foreign Trade 1948-; Senior Engineer for Soviet Trade Representation in Hungary 1948-55; Vice-Chair. Soyuzpromexport 1957-64, Chair. 1964-; mem. CPSU; Red Banner of Labour. *Address:* Soyuzpromexport, Ministry of Foreign Trade, Smolenskaya-Sennaya ploshchad 32-34, Moscow G-200, U.S.S.R.

NIKOLAYEV, Anatoliy Vasiliyevich; Soviet chemist; b. 27 Nov. 1902, Orenburg; s. of Vasiliy N. Nikolayev and Mariya M. Nikolayeva; m. Vera M. Makhimadze 1947; [illegible] s.; ed. Leningrad Univ.; Head, Pavlodar Salt Expedition, U.S.S.R. Acad. of Sciences 1927-31; Head, Combined Kulunda Expedition 1931-35; at Inst. of Gen. and Inorganic Chemistry, U.S.S.R. Acad. of Sciences 1934-57; Instructor, Moscow Polygraphic Inst. 1936-41; Instructor, later Prof., Moscow Inst. of Non-Ferrous Metals and Gold 1946-57; Dir. Inst. of Inorganic Chemistry, Siberian Dept., U.S.S.R. Acad. of Sciences 1957-; Chair. Novosibirsk State Univ. 1959-; [illegible] CPSU 1960; Corresp. mem. and Presidium mem. Siberian Dept., U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-; Vernadsky Prize 1946, Order of Lenin (twice), and other decorations. *Publication:* Interaction of Chlorides of Rare Earth Elements in Aqueous Solutions (Solid Solutions), Extraction of Inorganic Substances 1970. *Leisure interest:* photographic and colour films. *Address:* Institute of Inorganic Chemistry, 630090 Novosibirsk 90, Moscow (Office); 630072 Novosibirsk 72, Moscow, U.S.S.R. (Home). *Telephone:* 65-05-03.

NIKOLSKIY, Boris Petrovich, D.SC.; Soviet physical chemist; b. 14 Oct. 1900, Menselinsk, Tatar A.S.S.R.; ed. Leningrad State Univ.; Lecturer, Dozent, Prof., Chief of Faculty, Leningrad Univ. 1925-, Head of Dept. and Lab., Khlopin Radium Inst. 1949-; Corresp. mem. 1953-, Academician, U.S.S.R. Acad. of Sciences 1968-; Lenin Prize 1961, State Prize 1949, 1973, Hero of Socialist Labour 1970, Order of Lenin (twice), "Hammer and Sickle" Gold Medal, etc. *Address:* Leningrad State University, Leningrad, U.S.S.R.

NIKULA, Karl Oscar, DR. PHIL.; Finnish historian; b. 31 May 1907, Vasa; s. of Karl Nikula and Emilia Glasberg; m. Sigrid M. Rinne 1933; four s.; Schoolteacher in Jakobstad [illegible] Helsinki 1932-45; Dir. of Historical Museum of Turku/Åbo 1945-52; Lecturer, Åbo Acad. 1945-51; Prof. Åbo Acad. 1951-74, Rector 1962-66. *Publications:* Åbo sjöfarts historia 1930, Svenska skärgårdsflottan 1756-91 1933, Tenala och Bromarf socknars historia I-II 1938, Boktryckarna Frenckell och deras föregångare vid Åbo akademi 1942, Malmska handelshuset i Jakobstad 1948, Jakobstad 1652-1952 1952, W. Rosenlew & Co., Aktiebolag 1853-1953 1953, La flotte suédoise de l'archipel au XVIIIième siècle (Revue int. d'histoire militaire) 1955, The Castle of Turku 1955, Augustin Ehrensvard 1710-1772 1960, Les troupes légères de l'armée suède 1961, The Story of the Tobacco Factory in Jakobstad 1962, Finnlands Ostgrenze 1963, Åbo stads historia 1721-1809 1972, Åbo stads historia 1809-56 1973, Finländska borgare på 1700-talet 1978. *Address:* Slottsgatan 28A 20100 Åbo 10, Finland. *Telephone:* 17-494.

NILSSON, Birgit (Fru Bertil Niklasson); Swedish opera singer (soprano); b. 17 May 1918; ed. Stockholm Royal Acad. of Music; with Stockholm Opera 1947-51; sang at Glyndebourne (England) 1951, Bayreuth 1954, Munich 1955, Hollywood Bowl, Buenos Aires and Florence 1956, Bayreuth 1957-, London (Covent Garden) 1957, 1962, 1963, 1973, Milan (La Scala), Naples, Vienna, Chicago and San Francisco 1958, New York (Metropolitan) 1959, Moscow 1964; sang in Turandot Paris 1968, Josen New York 1968, Elektra London 1969; particularly well known for her Wagnerian roles; Royal Court singer 1954; Austrian Kammersängerin, Bavarian Kammersängerin and Hon. mem. of the Vienna State Opera 1968; Commdr. Order of Vasa 1968, Medal Litteris et Artibus 1960, Medal for Promotion of Art of Music, Royal Acad. of Music, Stockholm 1968. *Address:* Box 522, Stockholm C, Sweden.

NILSSON, Gösta; Swedish engineer and business executive; b. 18 Feb. 1912, Jonstorp in Skåne; s. of Jöns and Hilda (Hansson) Nilsson; m. Ingeborg Nilsson 1939; one s. and three d. High Tension and Lighting Research Inst., Uppsala 1936-37; Admin. Investigator, Swedish State Power Board 1937-44, Head of Operations and Planning Dept. 1944-46, Head of Älvkarleby Power Station 1946-48, Dir.-Gen. and Vice-Chief, Swedish State Power Board 1948-53; Man. Dir. AB Scania-Vabis (mfrs. of trucks, buses, diesel engines) 1953-69; Deputy Chair. Linjeflyg AB 1959-65, Swedish Metal Trades Employers Assn. 1958-63, SAAB-Scania 1969-; Dir. AB Statsgruvor (State Mines Co.) 1950-65, Swedish Assn. of Automotive Industries and Wholesale Merchants 1953-69, Stockholm Chamber of Commerce 1956-70, German-Swedish Chamber of Commerce 1961-, Gen. Assn. of Swedish Exporters 1963-70, Finnish-Swedish Chamber of Commerce 1964-77, Swedish Road Assn. 1964-70; Chair. AB Svenska Volkswagen 1969-, Science Museum in Stockholm 1970-77; Dir. Swedish Wine Monopoly 1964-, Svenska Dagbladet 1965-, Svenska BP 1969-78, GKN Stenman 1970-77, Bygg-Platzer 1970-77, Swedish Tobacco Co. 1970-, Suomen Autoteollisuus AB (mfrs. of trucks and buses in Finland) 1977-. *Leisure interests:* golf, beef-cattle breading. *Address:* Uddeboö Gård, 76100 Norrtälje, Sweden. *Telephone:* 0176-36064.

NILSSON, Karl N.A.; Swedish business executive; b. 28 Aug. 1907, Malmö; s. of Per and Matilda Nilsson; m. Maj E. Ljung 1938; one s. two d.; ed. Royal Inst. of Tech., Stockholm; with Svenska Fläktfabriken 1932-33, 1943-59, Sales Man. 1949, Exec. Vice-Pres. 1953; A.S.E.A. Rep. in India 1933-43, Exec. Vice-Pres. 1959, Acting Pres. 1961; Pres. Scandinavian Airlines System 1962-69; Chair. Svenska Fläktfabriken 1970-, Zander and Ingeström 1972-, Wasabröd AB 1975-; Vice-Chair. Alfa-Laval 1970-; mem. of Boards of Electro-Invest 1960-, Gadelius AB 1974-, Wasa GmbH (Fed. Repub. of Germany) 1975-; Commdr. Royal Order of Vasa (Sweden), Royal Order of Dannebrog (Denmark), Order of St. Olav (Norway), Commdr. with Star, Order St. Gregorius Magnus (Vatican), Grosses Verdienstkreuz (Fed. Repub. of Germany), Officier, Légion d'honneur (France). *Leisure interests:* tennis, table tennis, gardening. *Address:* Backegården, Smårydsvägen, 260 90 Båstad, 0431/728 15, Sweden. *Telephone:* 08-676700.

NILSSON, Torsten; Swedish politician; b. 1 April 1905; ed. in Sweden and Germany; began career as bricklayer 1922-29; Sec. Social Dem. Youth Org., Skåne 1927-30, Chair. 1930-34, Chair. Soc. Dem. Youth Org. of Sweden 1934-40, Sec., Social Dem. Party 1940-48; [illegible] of Parl. 1941-76; Minister of Communications 1945-51, of Defence 1951-57, of Social Welfare 1957-62, for Foreign Affairs 1962-71. *Address:* Parliament Buildings, Stockholm, Sweden.

NIMERI, Field Marshal. Gaafar Mohammed al- (*see* Nemery, Field Marshal. Jaafar Mohammed al-).

NIN-CULMELL, Joaquin Maria; American musician; b. 5 Sept. 1908, Berlin, Germany; s. of Joaquin Nin and Rosa Culmell; ed. Schola Cantorum and Nat. Conservatoire, Paris; studied privately with Manuel de Falla; Instructor, Middlebury Coll., Vermont 1938, 1939, 1940, Williams Coll. 1940-50; Prof. of Music, Univ. of Calif. 1949-74, Emer. Prof. 1974-, Inst. of Creative Arts 1965-66; has appeared [illegible] pianist and conductor with the San Francisco Symphony and other orchestras in the U.S.A. and Europe; Corresp.

mem. Royal Acad. of Fine Arts of San Fernando (Madrid 1962); mem. Int. Jury Maria Canals Int. Competition, Barcelona, Marguerite Long Int. Competition, Paris. *Compositions:* Piano Concerto, El burlador de Sevilla (ballet), Piano Quintet, Sonata Breve, Tonadas (piano), Three Old Spanish Pieces (orchestra), Diferencias (orchestra), Concerto for cello and orchestra (after Padre Anselmo Viola), Mass in English (for mixed chorus and organ), La Celestina (opera), Cantata for voice and harpsichord or piano and strings (after Padre José Pradas), songs, choral pieces, etc. *Leisure interests:* philosophy, detective stories, swimming. *Address:* 165 Hillcrest Road, Berkeley, Calif. 94705, U.S.A.

NININGER, Harvey Harlow, A.M., SC.D.; American meteorite expert; b. 17 Jan. 1887, Conway Springs, Kansas; s. of J. B. and M. A. B. Nininger; m. Addie Delp 1914; one s. two d.; ed. Northwestern State Normal School, Okla., McPherson Coll., Kansas, Pomona Coll., Calif., and Univ. of California; Substitute Prof. of Biology, State Teachers Coll., Alva, Okla. 1912-13, Prof. of Biology, La Verne Coll., Calif. 1914-18; Instructor Pomona Coll. 1916; Lab. Asst. Univ. of Calif. 1918; Special Field Agent, U.S. Bureau Entomology 1918-19; Extension Entomologist, Kansas State Agricultural Coll. 1919; Prof. of Biology, Southwestern Coll. 1919-20, McPherson Coll. 1920-30; Pres. K[illegible] Acad. of Science 1924-25; organized Nininger Lab. 1930 (became American Meteorite Lab. 1937); Curator of Meteorites Colorado Museum of Natural History 1930-46; Dir. American Meteorite Lab. Denver 1930-; Instructor in Meteoritics, Denver Univ.; Pres. Soc. for Research on Meteorites 1937-41; Fellow, American Assn. for Advancement of Science, Arizona Acad. of Science; began study of meteorites 1923; has discovered more than 255 different meteorite falls; possesses the largest private collection of meteorites in the world; Founder and Dir. American Meteorite Museum 1946-60; mem. and fmr. Pres. Kansas Acad. Sciences; expeditions to tektite fields, Philippines, Vietnam, Thailand, Australia, Czechoslovakia, Germany, Australian meteorite craters, European meteorite collections 1958-60; meteorite consultant, Arizona State Univ. 1960-: endowed with Addie Nininger the annual Nininger Award; Leonard Memorial Medal 1967; Oct. 1967 issue of Journal of the Geochemical Society dedicated to him. *Publications:* A Field Guide, Birds of Central Kansas 1927, Our Stone-Pelted Planet 1933, A Comet Strikes the Earth 1942, Chips from the Moon 1947, The Nininger Collection of Meteorites 1950, Out of the Sky 1952, Arizona's Meteorite Crater—Present, Past and Future 1956, Ask a Question about Meteorites 1962, The Published Papers of H. H. Nininger 1971, Find a Falling Star 1972, A Photographic Study of Meteorites 1977. *Address:* P.O. Box 420, Sedona, Arizona 86336, U.S.A. *Telephone:* 282-3613.

NIRENBERG, Louis, PH.D.; American professor of mathematics; b. 28 Feb. 1925, Hamilton, Ont., Canada; s. of Zuzie Nirenberg and Bina Katz; m. Susan Blank 1948; [illegible] s. one d.; ed. McGill and New York Univs.; Instructor, New York Univ. 1949-51, Asst. Prof. 1951-54, Assoc. Prof. 1954-57, Prof. 1957-; Dir. Courant Inst. of Mathematical Sciences 1970-72; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Bôcher Prize of American Mathematical Soc. *Publications:* Various papers in mathematical journals. *Leisure interests:* classical music, reading fiction, cinema, walking. *Address:* Courant Institute of Mathematical Sciences, New York University, 251 Mercer Street, New York, N.Y. 10012, U.S.A. *Telephone:* 212-460-7451.

NIRENBERG, Marshall Warren, PH.D.; American biochemist; b. 10 April 1927; m. Perola Zaltzman; ed. Univ. of Florida and Univ. of Michigan; Postdoctoral Fellow, American Cancer Soc., Nat. Insts. of Health (N.I.H.) 1957-59, U.S. Public Health Service, N.I.H. 1959-60; mem. staff, N.I.H. 1960-, research bio-chemist 1961-62; research biochemist, Head of Section for Biochemical Genetics, Nat. Heart Inst. 1962-66; Chief, Lab. of Biochemical Genetics, Nat. Heart, Lung and Blood Inst. 1966-; has researched on mechanism of protein synthesis, genetic code, nucleic acids, regulatory mechanism in synthetic macromolecules; mem. Nat. Acad. of Sciences, Pontifical Acad.of Sciences 1974; Molecular Biology Award, Nat. Acad. of Sciences 1962; Medal from Dept. of Health, Educ. and Welfare 1963, Modern Medicine Award 1964, Nat. Medal for Science, Pres. Johnson 1965, Nobel Prize for Medicine (with Holley and Khorana) for interpreting the genetic code and its function in protein synthesis 1968, Louisa Gross Horwitz Prize for Biochemistry 1968. *Address:* Laboratory of Biochemical Genetics, National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, Md. 20014, U.S.A.

NISHIKAWA, Shojiro, B.ECON.; Japanese banker; b. 23 Sept. 1913, Tokyo; m. Fumiko Hida 1941; [illegible] s. two d.; ed. Tokyo Imperial Univ.; joined Nippon Kangyo Bank Ltd. 1936, Branch Man. Tsurumi Branch 1954-60, Gen. Man. Planning Div. 1960-61, Dir. and Branch Man., Nagoya Branch 1961-63, Man. Dir. 1963-69, Deputy Pres. 1969-71; Deputy Pres. Dai-Ichi Kangyo Bank 1971-76, Chair. Dec. 1976-. *Address:* Dai-Ichi Kangyo Bank Ltd., 6-2, 1 chome Marunouchi, Chiyoda-ku, Tokyo, Japan. *Telephone:* 03-216-1111.

NISHIMURA, Eiichi; Japanese politician; b. 1898; ed. Tohoku Univ.; mem. House of Reps.; fmr. Parl. Vice-Minister of Transport; fmr. Minister of Health and Welfare; fmr. Minister of Posts and Telecommunications; Minister of Construction 1971-72; Deputy Prime Minister, Minister of State and Dir.-Gen., Admin. Man. Agency 1976-77; fmr. Leader of the Dem. Socialist Party. *Address:* c/o Administrative Management Agency, Tokyo, Japan.

NISHIO, Suehiro; Japanese politician; b. 1891; ed. Primary School; factory apprentice 1905; mem. Yuaikai (Workers' Friendship Soc., first Japanese trade union) 1915, Sec. 1919; founded Preparatory Cttee. for Trade Unions 1916; arrested 1920, 1921, 1922; del. to ILO Confs. 1924, 1932; Sec.-Gen. Sodomei (Gen. Fed. of Trade Unions) 1925-40 (suppressed); founder mem. Exec. Shakai Minshu (Socialist People's) Party 1925; mem. House of Reps. 1928-38 (expelled), 1939-; formed Kinro Kokumin To (Nat. Workers' Party) of expelled [illegible] of Shakai Taishu (Socialist Mass) Party 1940, party banned; founded Social Dem. Party of Japan 1945; re-established Sodomei 1946; Deputy Prime Minister May 1947-Feb. 1948; resigned from Social Dem. Party 1959; Founder Japan Dem. Socialist Party and Chair. 1961-67. *Publications:* With People (autobiography) 1950, Road to the New Party 1959. *Address:* 1 Shiba Sakuragawa-cho, Minato-ku, Tokyo, Japan.

NISSIM, Isaac; Israeli Rabbi; b. 1896, Baghdad, Iraq.; in Israel 1925-; Chief Rabbi of Israel and Pres. Rabbinical High Court 1955-72; Pres. Rabbinical Seminary, Jerusalem 1957; fmr. Chair. Great Rabbinical Court; fmr. Head of Sephardic Community. *Publications:* Yen Hatov 1947, Canogah Zidkah Unishpat. *Address:* 1 Brenner Street, Jerusalem, Israel.

NITISASTRO, Widjojo, PH.D.; Indonesian politician; b. 23 Sept. 1927, Malang; ed. Univ. of Indonesia and Univ. of Calif., Berkeley, U.S.A.; Dean, Faculty of Econs., Univ. of Indonesia 1965-67; seconded to UN [illegible] expert engaged in drawing up plan for 2nd UN Econ. Devt. Decade and mem. Gov. Council, UN Asian Inst. of Devt. and Planning 1967-71; Minister of State for Nat. Planning and Construction 1971-74, for Econ. Financial and Industrial Affairs 1974- (named Minister Co-ordinator 1978); Chair. Nat. Planning Board 1978-. *Publications include:* Population Trends in Indonesia, The Relevance of Growth Models for Less Developed Economics, The Role of Research in a University, Public Policies, Land Tenure and Population Movements, Population Problems and Indonesia's Economic Development. *Address:* Ministry for Economic, Financial and Industrial Affairs, Jakarta, Indonesia.

NITZE, Paul Henry; American administrator; b. 16 Jan. 1907, Amherst, Mass.; s. of William A. and Anina (Hilken) Nitze; m. Phyllis Pratt 1932; two s. two d.; ed. Harvard Univ.; New York Investment Banker 1929-40; financial Dir. Office of Co-ordinator of Inter-American Affairs 1941-42; Chief, Metals and Minerals Branch, Board of Econ. Welfare, Dir. Foreign Procurement and Devt. 1942-43; Vice-Chair. Strategic Bombing Survey 1944-46; Deputy Dir. Office of Int. Trade Policy 1946-48; Deputy to Asst. Sec. of State for Econ. Affairs 1948-49; Dir. Policy Planning Staff, Dept. of State 1950-53; Pres. Foreign Service Educ. Foundation 1953-61; Asst. Sec. of Defense for Int. Security Affairs 1961-63; Deputy Sec. of Defense 1967-69; mem. Board Schroders Inc. 1969-, Potomac Assocs.; Sec. of the Navy 1963-67; Chair. Advisory Council, School of Advanced Int. Studies, Johns Hopkins Univ.; Chair. Board, Aspen Skiing Corpn; Dir. American Security and Trust Co., Twentieth Century Fox, Inc., American Medical Buildings, The Atlantic Council of the U.S., Technical Studies, Inc.; Trustee, Johns Hopkins Univ.; Consultant, System Planning Corpn.; mem. U.S. Del. to Strategic Arms Limitation Talks 1969-74. *Publications:* U.S. Foreign Policy 1945-1954. *Leisure interests:* skiing, tennis. *Address:* 1500 Wilson Boulevard, Suite 1500, Arlington, Va. 22209 (Office); 3120 Woodley Road, Washington, D.C. 20008, U.S.A. (Home).

NIVEN, (James) David Graham; British actor; b. 1 March 1910; ed. Stowe and Royal Mil. Coll., Sandhurst; Officer in British Army 1929-32, 1939-46; various occupations 1932-35; film extra, Hollywood 1935-38; starring roles since 1938 in the films Bachelor Mother 1939, Wuthering Heights 1939, Raffles 1940, The First of the Few 1941, The Way Ahead 1944, A Matter of Life and Death 1946, The Elusive Pimpernel 1950, The Moon is Blue 1953, Carrington V.C. 1955, Around the World in Eighty Days 1956, The Little Hut 1957, My Man Godfrey 1958, Bonjour Tristesse 1958, Separate Tables 1958, Ask Any Girl 1959, Happy Anniversary 1960, Please Don't Eat the Daisies 1960, The Guns of Navarone 1961,

The Best of Enemies 1962, 55 Days at Peking 1963, The Pink Panther 1964, Bedtime Story 1964, Where the Spies Are 1965, Lady L 1966, Eye of the Devil 1967, Casino Royale 1967, Extraordinary Seaman 1968, Prudence and the Pill 1968, The Impossible Years 1968, Before Winter Comes 1968, The Brain 1969, King, Queen, Knave 1971, Vampira 1973, Paper Tiger 1974, No Deposit, No Return 1975, Murder by Death 1976, Candleshoe 1977, Death on the Nile 1978, Escape to Athena 1978, and many others; American Motion Picture Acad. Award, Best Actor of the Year for Separate Tables; American Legion of Merit and British medals. *Publications:* Round the Rugged Rocks; reminiscences: The Moon's a Balloon 1971, Bring On the Empty Horses 1975. *Address:* Château D'Oex, Vaud, Switzerland; c/o Coutts & Co., 440 Strand, London, W.C.2, England.

NIWA, Kyoshiro; Japanese politician; b. 1904; ed. Tokyo Univ.; mem. House of Reps.; fmr. Parl. Vice-Minister of Home Affairs; Deputy Sec.-Gen. Liberal Dem. Party; Minister of Transport 1971-72. *Address:* c/o Liberal Democratic Party, 7 2-chome, Hirakawa-cho, Chiyoda-ku, Tokyo, Japan.

NIXON, Edwin Ronald, C.B.E., M.A.; British computer industry executive; b. 21 June 1925, Leicester; s. of William Archdale Nixon and Ethel (née Corrigan); m. Joan Lilian Hill 1952; one s. one d.; ed. Alderman Newton's School, Leicester, and Selwyn Coll., Cambridge; served R.A.F. 1946-50; Man. Accountant, Dexion Ltd. 1950-55; joined IBM as data processing salesman 1955, various man. posts 1955-65, Man. Dir. 1965-; now Man. Dir. IBM United Kingdom Holdings Ltd., IBM United Kingdom Ltd. (Chair. 1979-), IBM United Kingdom Rentals Ltd.; Chair. Board, IBM United Kingdom Labs Ltd.; Dir. IBM Information Services Ltd., Nat. Westminster Bank; mem. CBI Industrial Policy Cttee.; Council mem. Manchester Business School, Oxford Centre for Man. Studies, Foundation for Man. Educ., Westfield Coll. (Univ. of London); Gov. William Temple Foundation; mem. Advisory Council, Business Graduates Assn.; mem. Marketing Cttee. of Ashridge Man. Coll.; mem. U.K. Cttee of Awards for Harkness Fellowships. *Leisure interests:* music, tennis, squash, sailing, skiing. *Address:* IBM United Kingdom and Associated Companies Ltd., 389 Chiswick High Road, London, W.4 (Office); Starkes Heath, Rogate, near Petersfield, Hants., England (Home). *Telephone:* Cosham 21212 (Office); Rogate 504 (Home).

NIXON, Peter James; Australian politician, farmer and grazier; b. 22 March 1928, Orbost, Victoria; s. of Percival C. and Grace Hunter Nixon; m. Sally J. Dahlsen 1954; two s. one d.; ed. Wesley Coll. Melbourne; elected to House of Reps. 1961; mem. Joint Cttee. Public Accounts 1964; mem. Joint Cttee. Foreign Affairs 1967; Minister for the Interior 1967-71, for Shipping and Transport 1971-72; Minister of Transport Nov. 1975-; Postmaster-Gen. Nov.-Dec. 1975; Nat. Country Party. *Leisure interests:* golf, shooting, fishing, chess, theatre. *Address:* Parliament House, Canberra, A.C.T. 2600, Australia. *Telephone:* Canberra 721211.

NIXON, Richard Milhous, A.B., LL.B.; American former President; b. 9 Jan. 1913, Yorba Linda, Calif.; s. of Francis A. and Hannah (Milhous) Nixon; m. Thelma Catherine ("Pat") Ryan 1940; two d.; ed. Whittier Coll. and Duke Univ. Law School; practised law in Whittier 1937-42; Attorney with Office of Emergency Man., Washington, D.C. 1942; served with U.S. Navy 1942-46; attained rank of Lieut.-Commdr.; mem. Congress for 12th Calif. District 1947-50; Senator from Calif. 1950-53; Vice-Pres. of U.S.A. 1953-61; Republican candidate for Presidency (ran against John F. Kennedy) 1960; affiliated with law firm Adams, Duque and Hazeltine 1961-63; Republican Candidate for Gov., Calif. 1962; mem. Mudge, Stern, Baldwin and Todd 1963-64; partner, Nixon, Mudge, Rose, Guthrie, Alexander & Mitchell 1964-68; 37th Pres. of U.S.A. 1969-74, resigned Aug. 1974; granted Presidential Pardon by Pres. Ford, Sept. 1974, after Watergate investigations; responsible for Viet-Nam Peace Settlement Jan. 1973; first U.S. Pres. to make official visit to People's Repub. of China Feb. 1972, U.S.S.R. May 1972; revisited China Feb. 1976. *Publications:* Six Crises 1962, The Nixon Memoirs 1978. *Address:* 17 Fifth Avenue, New York, N.Y. 10003, U.S.A.

NIYAZBEKOV, Sabir Bilyalovich; Soviet politician; b. 15 Dec. 1912, Tselinograd District; s. of Bilyal Niyazbekov and Zhibek Suleymenova; m. Ruaza Sabirovna Akhmetova 1940; four d.; ed. Higher Party School of CPSU Central Cttee.; Sec. Village Soviet, District Soviet 1928-31; Komsomol work 1931-35; Army Service 1935-38; mem. of CPSU 1939; State work 1938-41; Party work 1941-65; First Sec., West Kazakhstan, Tselinograd, South Kazakhstan, Alma-Ata, Regional Cttees. CP of Kazakhstan; fmr. Chair. Presidium, Supreme Soviet, Kazakh S.S.R.; Vice-Chair. Presidium, U.S.S.R. Supreme Soviet 1965-79; Candidate mem. Bureau of CPSU Cen. Cttee. 1966-71, mem. 1971-; mem. Cen. Cttee. CP of Kazakhstan; Deputy to U.S.S.R. Supreme Soviet 1962-; Order of Lenin and other decorations. *Leisure interests:* reading, films, plays, walking. *Address:* Presidium, Supreme Soviet of the Kazakh S.S.R., Alma-Ata, U.S.S.R.

N'JIE, Alhaji Alieu Badara, M.B.E., J.P.; Gambian politician; b. 1904; ed. Wesleyan Boy's High School, Bathurst, Gambia; Gambian Civil Service 1925-59, ultimately first Registrar Supreme Court; mem. Banjul City Council 1947-, Chair. Gen. Purposes Cttee. 1959-61; Minister of Works and Services 1962, of Works and Communications 1962-65; Minister of External Affairs and High Commr. in Senegal 1965-67; Chair. Gambia Tourist Board 1967; Minister for Local Govt., Lands and Mines 1968; Minister of State at the President's Office 1970-72; Minister of Agriculture 1972-74, of External Affairs 1974-77, Vice-Pres. 1977-79. *Address:* c/o Office of the Vice-President, Banjul, The Gambia.

NJOKU, Eni, PH.D.; Nigerian university teacher and administrator; b. 6 Nov. 1917, Ebem Ohafia; s. of Njoku Eni and Obo Uche; m. Winifred Oliver Beardsall; one s. three d.; ed. Ebem Ohafia primary school, Hope Waddell Coll., Calabar, Yaba Higher Coll. and Univ. of Manchester, England; teacher, Hope-Waddell Secondary School 1940-42, Clerk (Army) Training School 1942-44; studied in Manchester 1944-48; Lecturer, Univ. of Ibadan 1948-52; Minister for Mines and Power, Govt. of Nigeria 1952-53; Senior Lecturer, Prof. of Botany, Univ. of Ibadan 1953-62; Vice-Chancellor and Prof. of Botany, Univ. of Lagos 1962-65; Visiting Prof. of Botany, Mich. State Univ. 1965-66; Vice-Chancellor, Univ. of Nigeria 1966-70; Prof. of Botany, Univ. of Nigeria 1966-74; mem. House of Reps. 1952-53, Senate 1960-62; Chair. Electricity Corpn. of Nigeria 1956-62; Pres. Science Assn. of Nigeria 1959-60; mem. Commonwealth Scientific Cttee. 1961-66; mem. UN Cttee. on Application of Science and Tech. to Devt. 1964-69; mem. Provisional Council of Univ. of Zambia 1964-65; mem. Superior Academic Council of Univ. of Lovanium (Kinshasa) 1963-66; Hon. D.Sc. (Nigeria and Lagos), Hon. LL.D. (Mich. State Univ.). *Publications:* Plant Life in Tropical Environment 1954 and numerous research articles in botanical journals. *Address:* Ebem Ohafia, East Central State, Nigeria.

NJOKU, Raymond Amanze, LL.B.(LOND.), G.C.G.G., C.F.R.; Nigerian barrister and solicitor, company director and former politician; b. Aug. 1916, Emekuku Owerri; s. of Njoku Ndudu Dike and Adamma Ejeka; m. Magdalen Opara; five s. three d.; ed. St. Charles Coll. Onitsha, Kings Coll., Univ. of London, and Inns of Court (Middle Temple), London; Teacher 1933-43; Law practice 1947-54; mem. Eastern House of Ass. 1953-54; mem. House of Reps. 1953-66; Fed. Minister of Trade and Industry 1954-57; Minister of Transport 1957-59, of Transport and Aviation 1959-64, of Communications 1965-66; mem. Gov. Privy Council 1954-55, Gov.-Gen. Privy Council 1955-60; Pres. Eastern Region Cttee. Nat. Convention of Nigerian Citizens 1951-53, Second Nat. Vice-Pres. 1957-64; Chair. Gen. Council Commonwealth Parl. Assn. 1961-62; Knight Grand Cross of Equestrian Order of St. Gregory the Great (Vatican) 1964, Commander of the Federal Republic (Nigeria) 1964. *Leisure interests:* reading, gardening, music, lawn tennis. *Address:* Providence Villa, 14-16 Mere Street, P.O. Box 150, Owerri, Nigeria. *Telephone:* 59.

NJONJO, Charles, B.A., LL.B.; Kenyan lawyer; b. 1920; s. of ex-Senior Chief Josiah Njonjo of Kiambu; m. Margaret Bryson 1972; ed. Fort Hare Univ. (South Africa), Univ. Coll. Exeter (U.K.), London School of Econs., Gray's Inn; Asst. Registrar-Gen., Kenya 1955-60; Crown Counsel 1960-61; Senior Crown Counsel 1961-62; Deputy Public Prosecutor 1962-63; Attorney-Gen. 1963-; M.P. (ex-officio). *Address:* Attorney-General's Office, Nairobi, Kenya.

NJOROGE, Ng'ethe, M.SC.; Kenyan diplomatist; ed. Alliance High School, Busoga Coll., Uganda Central State Univ., Wilberforce, Ohio, and Boston Univ.; Asst. Sec. Ministry of Lands and Settlement 1963-64; Senior Asst. Sec. Ministry of Foreign Affairs 1964, later Head, Africa and Middle East Division; Counsellor, Bonn 1968-70; High Commr. in U.K. 1970-79, concurrently Amb. to Italy and Switzerland 1974-79; mem. Kenya Del. to UN Gen. Ass. 1964, 1965, 1966, Commonwealth Heads of Govt. Meetings 1964. *Address:* c/o Ministry of Foreign Affairs, Nairobi, Kenya.

NKAMA, Moto; Zambian politician and diplomatist; b. 1937, Mufulira; ed. Mufulira Mine Upper Primary School, Kasama School, Eagle's Peak Coll. and Roma Coll., Lesotho and Inst. for Commonwealth Studies, Oxford; worked in Mufulira Mine Welfare Dept. 1961; election Supervisor, United Nat. Independence Party (UNIP) 1962; Deputy Dir. of elections Aug. 1962; Regional Sec. UNIP 1962-63; First Sec. and Counsellor, UN 1964-68; mem. UN Council for Namibia (South West Africa) 1968; Private Sec. to Pres. Kaunda 1968; mem. Parl. 1968-; Asst. Minister for the Copperbelt and Minister of State for Foreign Affairs 1968-69; Minister

of State in charge of Cen. Province 1969, for Foreign Affairs 1969-70; Amb. to Fed. Repub. of Germany 1970-74, concurrently accredited to France and to Italy; Perm. Rep. to UN 1974. *Address:* c/o State Commission of Foreign Affairs, Lusaka, Zambia.

NKEGBE, Lieut.-Gen. Paul Kwame; Ghanaian army officer and politician; b. 26 April 1934, Denu, Keta District; ed. R.C. Mission School, Abor, St. Augustine's Coll., Cape Coast, Univ. of Ghana, Legon; Ghana Railways 1953-56; Lieut. Ghana Army 1961, Instructor Mil. Acad. 1961-66; Acting Defence Adviser, later Deputy Defence Adviser Ghana High Comm., U.K. 1966-68; Commr. for Educ. 1972-74, for Industry 1974-75, for Agriculture 1975-77, for Health Jan.-June 1977. *Address:* c/o Ministry of Health, Accra, Ghana.

NKOMO, Joshua; Rhodesian politician; b. 1917; ed. Adam's Coll., Natal; Univ. of S. Africa, Johannesburg; Welfare Officer, Rhodesia Railways, Bulawayo, then Organizing Sec., Rhodesian African Railway Workers' Union 1945-50; Pres. African Congress; employed in insurance and real estate; Pres.-Gen. African Nat. Congress 1957; lived abroad when African Nat. Congress banned 1959; elected Pres. Nat. Dem. Party Aug. 1960; returned to S. Rhodesia; Pres. Zimbabwe African People's Union (ZAPU) 1961-, amalgamated in African Nat. Council (ANC) 1974-76; imprisoned 1963-64; banished to Nuanetsi area April 1964, to Gonakudzingula Restriction Camp Nov. 1964 and for a further five years Dec. 1968, released Dec. 1974; mem. ANC Exec. 1974-76; involved in constitutional negotiations with Prime Minister Ian Smith 1976; Leader ANC del. at Geneva Conf. on Rhodesia; Leader ANC (Zimbabwe) 1976-; Joint Leader (with Robert Mugabe, *q.v.*) of Patriotic Front Oct. 1976-. *Address:* ANC (Zimbabwe), Lusaka, Zambia.

NNAMANI, Augustine; Nigerian lawyer and politician; called to the Bar 1962; practised law in various parts of Nigeria; Attorney-Gen. and Commr. for Justice, Anambra State 1974-76; Fed. Attorney-Gen. and Commr. for Justice Dec. 1976-. *Address:* c/o Ministry of Justice, Lagos, Nigeria.

NOBLE, Sir Peter (Scott), Kt., M.A., LL.D.; British classical scholar; b. 17 Oct. 1899, Fraserburgh; s. of Andrew Noble and Margaret Trail; m. 1928; two s. one d.; ed. Aberdeen and Cambridge Univs.; Lecturer in Latin, Liverpool Univ. 1926-30, Fellow, St. John's Coll., Cambridge 1928-31; Prof. of Latin Language and Literature, Leeds Univ. 1930-38; Regius Prof. of Humanity, Univ. of Aberdeen 1938-52; mem. Univ. Grants Cttee. 1943-53; Principal King's Coll. London 1952-68; mem. Gen. Dental Council 1956-66; Vice-Chancellor, Univ. of London 1961-64; Hon. LL.D. (Aberdeen). *Address:* 17 Glenorchy Terrace, Edinburgh, EH9 2DQ, Scotland. *Telephone:* 031-667-6287.

NOBLE, Robert Laing, M.D., PH.D., D.SC., F.R.S.C.; Canadian university professor; b. 3 Feb. 1910, Toronto; s. of late Dr. Robert Thomas Noble and Susannah Harriett (née Hodgetts) Noble; m. Eileen A. Dillon 1934; four s.; ed. Univs. of Toronto and Aberdeen; Asst. Editor Journal of Endocrinology, London 1938; Sec. of Canadian Physiological Soc. 1945-49; fmr. Prof. and Assoc. Dir. The Collip Medical Research Lab., Univ. of Western Ont.; Ellen Mickle Fellowship 1934; Leverhulme Fellowship of Coll. of Physicians 1935-37; Pres. Canadian Physiological Soc. 1959; Dir. B.C. Cancer Research Centre, Univ. of B.C., and Prof. of Physiology 1960-75, Prof. Emer. 1977-; Hon. D.Sc., Univ. of Western Ont. *Publications:* over 170 written works, especially on endocrinology, hormones and tumours, discovery of vinca alkaloids for cancer treatment and development of Nb strain of rats. *Leisure interests:* fishing, hunting. *Address:* 4746 West 2nd Avenue, Vancouver V6T-1B9, B.C., Canada.

NOEL, Emile; French international civil servant; b. 17 Nov. 1922, Constantinople (now Istanbul); s. of Fernand Noel and France Giraud; m. Lise Durand 1946; 2 d.; ed. Ecole normale supérieure, Paris; with Int. Secr., European Movt., Paris 1949; Sec. of Gen. Affairs Comm., Consultative Ass., Council of Europe 1949-52; Dir. of Constitutional Comm. of Ass., to look at the possibilities of a European Political Community 1952-54; Chef de Cabinet to Pres. Consultative Ass., Council of Europe 1954-56; Chef de Cabinet, then Deputy Dir. de Cabinet of Pres. of the Council of Ministers, Paris 1956-57; Exec. Sec. Comm. of EEC, Brussels 1958-67; Sec.-Gen. Comm. of European Communities 1968-. *Publications:* Le comité des représentants permanents 1966, Working Together 1975, Les rouages de l'Europe 1976-. *Address:* Office of the Secretary-General, Commission of the European Communities, 200 rue de la Loi 1049 Brussels, Belgium. *Telephone:* 735-00-40/735-80-40.

NOEL, Philip W.; American lawyer and politician, b. 6 June 1931, Warwick, R.I.; s. of S. Joseph Noel and Emma Crudeli; m. Joyce Sandberg 1956; two s. three d.; ed. Brown Univ. and Georgetown Univ. Law School; admitted to R.I. Bar, U.S. District Court Bar 1957; Practising Attorney 1957-66; mem. City Council, Warwick 1960-66, Mayor of Warwick 1966; Gov. of Rhode Island 1972-77; Democrat. *Leisure interests:* fishing, boating, reading, sports, crafts. *Address:* 21 Kirby Avenue, Warwick, R.I., U.S.A.

NOEL-BAKER, Baron (Life Peer), cr. 1977, of the City of Derby; **Philip J. Noel-Baker,** P.C.; British politician; b. 1 Nov. 1889; ed. Bootham School, York, Haverford Coll., Pennsylvania, Cambridge and Munich Univs., and the Sorbonne, Paris; Hon. Fellow of King's Coll., Cambridge 1961-; Cassel Prof. of Int. Relations, London Univ. 1924-29; Labour M.P. for Coventry 1929-31, for Derby South 1936-70; Parl. Private Sec. to Sec. of State for Foreign Affairs 1929-31; Dodge Lecturer, Yale Univ. 1934; mem. Foreign Office Advisory Council on Aliens 1940-42; Parl. Sec. to Ministry of War Transport 1942-45; Minister of State 1945-46; Sec. of State for Air Oct. 1946-47; Sec. of State for Commonwealth Relations Oct. 1947-50; Minister of Fuel and Power 1950-51; Pres. Int. Council of Sport and Physical Educ. (UNESCO) 1960-; Chair. Parl. Labour Party Foreign Affairs Group 1964-70; Nobel Peace Prize 1959, Albert Schweitzer Book Prize 1960; Legion d'honneur 1976, Papal Kt., Order of Saint Sylvester 1977. *Publications:* Disarmament, The League of Nations at Work, The Juridical Status of the British Dominions in International Law, The Private Manufacture of Armaments, The Arms Race: a Programme for World Disarmament 1958, World Disarmament Now 1964, etc. *Address:* 16 South Eaton Place, London, S.W.1, England.

NOFAL, Sayed, DR. ARTS; Egyptian international civil servant; b. 16 March 1910, Al Mansoura; s. of Mohamed Ali Nofal and Fatima Al Sayed Amer; m. 1940; three s.; ed. Cairo Univ.; Head of Literary Dept. Al Siyassa 1935-38; Teacher, Cairo Univ. 1938; later Dir. of Tech. Secr., Ministry of Educ. and Ministry of Social Affairs; later Dir. of Legis. Dept., Upper House of Egyptian Parl.; later Dir. Political Dept., Arab League; Asst. Sec.-Gen. Arab League 1960-. *Publications include:* History of Arabic Rhetoric 1940, Poetry of Nature in Arabic and Western Literature 1944, Egypt in the United Nations 1947, The Egyptian Parliament in a Quarter of a Century 1951, The Political Status of the Emirates of the Arab Gulf and Southern Arabia 1959, The Arab-Israeli Conflict 1962, Arab Unity 1964, Arab Nationalism 1965, Arab Socialism 1966, The Record of Israel 1966, Joint Arab Action Book I 1968, Book II 1971, The Arab Gulf 1969, An Introduction to Israeli Foreign Policy 1972, The Relationship between the United Nations and the Arab League 1975, The International Function of the Arab League 1975, The Future of Joint Arab Action 1977. *Address:* 9 Khan Younis Street, Madinat Al-Mohandiseen, Dokki, Cairo, Egypt. *Telephone:* 807999.

NOGUCHI, Isamu; American sculptor and landscape designer; b. 7 Nov. 1904; ed. High Schools, Rolling Prairie and La Port, and Columbia and New York Univs.; Apprentice to Onorio Ruotolo 1923, to Brancusi, Paris 1927; first Exhbn., New York 1928; works include sculpture and gardens for Conn. Gen. Life Insurance Co., The First Nat. Bank of Fort Worth, Chase Manhattan Bank, Yale Library of Precious Books, UNESCO Building, Paris and The John Hancock Building; Billy Rose Art Garden at Israel Museum, Jerusalem; ballet and stage sets; exhibits in many perm. collections; exhbn. at Gimpel Fils, London 1968, 1972. *Publication:* A Sculptor's World 1967. *Address:* 33-38 10th Street, Long Island City, N.Y. 11106, U.S.A.

NOGUEIRA, Albano Pires Fernandes: Portuguese diplomatist; b. 8 Nov. 1911, Arganil; m. Alda Xavier da Cunha 1937; ed. Coimbra Univ.; entered Diplomatic Service 1941; posts in embassy in Washington, and legations in Pretoria and Tokyo 1944-49; Chargé d'Affaires and Rep. to Allied High Comm. in Japan 1950-52, Rep. of Portuguese Govt to Japanese Govt. 1952; Counsellor, London 1952; Consul-Gen., Bombay 1955, New York 1955; mem. Perm. Mission of Portugal at UN 1955-68; Amb. to EEC 1968; Perm. Rep. to North Atlantic Council 1970-74; Amb. to U.K. 1974-76; Sec.-Gen. Ministry of Foreign Affairs 1977-78. *Leisure interests:* writing, reading. *Address:* Avenida Gaspar Corte Real, 18-4D-2750 Cascais, Portugal.

NOGUEIRA, Alberto Franco; Portuguese diplomatist and politician; b. 1918; ed. Lisbon Univ.; Third Sec., Ministry of Foreign Affairs 1943-45, Second Sec. 1945-51; Second Sec. and Chargé d'Affaires, Portuguese Embassy, Tokyo 1946-50; First Sec., Ministry of Foreign Affairs 1951-54; Head of Political Affairs 1954; Consul-Gen., London 1955-58; Portuguese Rep., C.C.T.A. 1955-60; Dir.-Gen. Political Affairs 1960-61; Minister of Foreign Affairs 1961-69. *Publications:* Journal of Literary Critic 1953, Struggle for the East 1957, United Nations and Portugal 1963, The Third World 1967. *Address:* c/o Ministry of Foreign Affairs, Lisbon, Portugal.

NOGUEIRA, Dênio Chagas; Brazilian economist; b. 12 Dec. 1920, Rio de Janeiro; s. of Outubrino Nogueira and Anna Cândida

Nogueira: m. Orsina de Fonseca 1956; one s. one d.; ed. Universidade do Brasil and Univ. of Michigan; Head, Finance Dept. Nat. Econ. Council 1951-64; Editor-in-Chief Conjuntura Econômica 1953-; Econ. Consultant to Econ. Comm. for Latin America and OAS on Foreign Investments in Latin American Free Trade Assn. 1960, to OAS on the Treaty of Montevideo (LAFTA) 1961; Exec. Dir. Superintendency of Money and Credit, Brazil (SUMOC) 1964-65; fmr. Pres. Banco Central do Brasil; Pres. Banco Geral do Brasil. *Publications:* Joint International Business Ventures in Brazil 1959, Foreign Private Investments in LAFTA 1960, Reforma Agraria: Problemas e Soluções 1964. *Leisure interests:* tennis, yachting. *Address:* Banco Geral do Brasil, S.A., Belém, Brazil.

NOKIN, Max; Belgian businessman; b. 10 Dec. 1907; m. Denise Malfeson; two s. three d.; ed. Liège Univ.; Dir. Soc. Générale de Belgique 1949-61, Gov. 1962-75, Hon. Gov. 1976-; Chair. Usines de la Vieille Montagne, S.I.D.M.A.R.; Vice-Chair. A.R.B.E.D. Cockerill; Dir. Genstar Ltd. (Montreal); Croix de guerre avec palme, Grand Officier Ordre Léopold II, Commdr. Ordre de Léopold, Officier Ordre de la Couronne, Hon. K.B.E., Commdr. Ordre du Chêne (Luxembourg), Grand Officier de l'Ordre de Mérite Civil et Militaire d'Adolphe de Nassau (Luxembourg). *Leisure interests:* golf, astronomy. *Address:* Rue Royale 30, 1000 Brussels, Belgium.

NOLAN, Sidney Robert, C.B.E.; Australian artist; b. 22 April 1917; m. 1st Elizabeth Patterson (divorced); m. 2nd Cynthia Hansen 1948 (died 1974); ed. Melbourne State and Technical schools, Melbourne Nat. Gallery; One-Man Shows Paris, London, New York, Rome, Venice and capital cities of Australia; Arts Council Travelling Exhbn., Great Britain; also exhibited at Pittsburgh Int. Exhbn. 1953, 1954, 1955, 1964, 1967, 1970, 1971, New Delhi Int. Exhbn. 1953, Pacific Loan Exhbn. Australia and U.S.A. 1956, Brussels Int. Exhbn. 1958, Documenta II, Kassel 1959, Dunn Int. Exhbn., London 1963, Edinburgh Festival 1964, Aldeburgh Festival 1964, 1968, 1971; Retrospective Exhbn. New South Wales 1967, Darmstadt, Edinburgh 1971, Dublin 1973; set designs for Icare, Colonel de Basil's Ballet Russe 1940, The Rite of Spring, Covent Garden 1962, The Display, Canberra 1965; illustrated Children's Crusade by Benjamin Britten 1973; Commr. for Australia and Del. for Australian Documentary Films, Venice Biennale 1954; Italian Govt. Scholarship 1956; Commonwealth Fund Fellowship for travel in U.S.A. 1959-61; Nat. Univ., Canberra Fellowship 1965; Fellow Bavarian Acad. 1971; Hon. Fellow York Univ. 1971; Hon LL.D. (Nat. Univ. Australia) 1968, Hon. D.Litt. (London) 1971; Britannica Award (Australia) 1969. *Principal works:* in Tate Gallery (London), Museum of Modern Art (New York), Nat. Galleries of Australia, Tom Collins Memorial (Perth Univ.), Contemporary Art Soc. and Arts Council of Great Britain (London). *Publications:* Ned Kelly 1963, Sidney Nolan: Myth and Imagery 1967, Open Negative 1967, Paradise Gardens 1971. *Address:* c/o Bank of New South Wales, [redacted] Sackville Street, London, W.1, England.

NOLAN, Thomas Brennan, PH.B., PH.D.; American geologist; b. 21 May 1901, Greenfield, Mass.; s. of Frank Wesley and Anna (née Brennan); m. Mabelle Orleman 1927; [redacted] s.; ed. Yale Univ.; Geologist, U.S. Geol. Survey 1924-44, Asst. Dir. 1944-56, Dir. 1956-65, Research Geologist 1965-; [redacted] Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences; Pres. Soc. of Econ. . Geologists 1950, Geological Soc. of America 1961; Vice-Pres. Int. Union of Geological Sciences 1964; Hon. Fellow, Royal Soc. of Edinburgh; Foreign mem. Geological Soc. of London; Hon. LL.D. (St. Andrews) 1962; Spendiaroff Prize, Int. Geol. Congress 1933, K.C. Li Medal and Prize, Columbia Univ. 1954, Rockefeller Public Service Awards, Princeton Univ. 1961, Silver Medal, Tokyo Geog. Soc. 1965. *Publication:* Geological articles in scientific journals. *Address:* U.S. Geological Survey, Reston, Virginia 22092 (Office); 2219 California Street, N.W., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 703-860-7270 (Office); 202-462-2040 (Home).

NOLAND, Kenneth Clifton; American artist; b. 10 April 1927, Asheville, N.C.; s. of Harry C. and Bessie (Elkins) Noland; m. 1st Cornelia Langel (divorced), 2nd Stephanie Gordon 1967; three c.; ed. Black Mountain Coll., North Carolina and Paris; Teacher Inst. of Contemporary Arts 1950-52, Catholic Univ. 1951-60, Bennington Coll. 1968; [redacted] man shows: Galerie Creuze, Paris 1949, Tibor de Nagy, New York 1957, 1958, French and Co., New York 1959, André Emmerich Gallery 1967, 1973, Nicholas Wilder Gallery, Los Angeles 1967, Zürich 1973, also Milan, Paris, London; work in permanent collections in Museum of Modern Art, Guggenheim Museum, Whitney Museum, Tate Gallery, Stedelijk Museum (Amsterdam), Zürich Kunsthaus and others. *Address:* c/o Lawrence Rubin Gallery, 49 West 57th Street, New York, N.Y. 10019; and Shaftsbury, Vermont, U.S.A.

NOLTING, Frederick Ernest, Jr., PH.D.; American diplomatist, banker and university professor; b. 24 Aug. 1911, Richmond, Va.; s. of Frederick E. Nolting and Mary Buford; m. Olivia Lindsay Crumpler 1940; four d.; ed. St. Christopher's School, Richmond, Virginia, Univ. of Virginia and Harvard Univ.; Investment Firm, Richmond 1934-39; Lecturing Fellowship in Philosophy, Univ. of Va. 1941-42; U.S. Navy 1942-46; Dept. of State 1946-64, Asst. to Deputy Under-Sec. of State 1950-53, Special Asst to Sec. of State for Mutual Security Affairs 1953-55; Dir. Office of Political Affairs, U.S. Del to NATO 1955-57; Deputy Chief of Mission, U.S. Del. to NATO and European Regional Orgs (USRO), Alt. U.S. Rep. on North Atlantic Council 1957-61; Amb. to Viet-Nam 1961-63; Vice-Pres. European Offices Morgan Guaranty Trust Co. of New York 1964-69, Asst. Chair. 1969-73, Consultant 1973-76; Diplomat-in-Residence, Univ. of Va. 1971-73; Olsson Prof. of Business Admin., Grad. School of Business, Univ. of Va. 1973-76; Dir. Miller Center of Public Affairs, Univ. of Va. 1975-78; Prof. Univ. of Va. 1978-; Chair. Board of Trustees, Thomas Jefferson Memorial Foundation, Va. *Leisure interests:* sport, music. *Address:* Stony Point Road, Charlottesville, Virginia, U.S.A. *Telephone:* 804-295-3869.

NOMA, Shoichi, B.A.; Japanese publisher; b. 9 April 1911, Shizuoka; s. of Isokichi and Masu Takagi, adopted by Noma family; m. Tokiko Machijiri 1941; one s. (adopted) one d.; ed. Univ. of Tokyo; South Manchuria Railway Co. 1934-41; Dir. Kodansha Ltd. 1941-48, Pres. 1949-; Man. Dir. Noma Hokokai 1948-; Chair. King Records 1961-; Dir. Toppan Printing Co. Ltd. 1964; Controller Asahi Nat. Broadcasting Co. Ltd. 1968-; Dir. Tokyo Broadcasting Co. 1975-; Man. Dir. Japan Magazine Publishers' Assn. 1956-; Pres. Japan Book Publishers' Assn. 1960-; Pres. Publishers' Assn. for Cultural Exchange 1961-, Editological Soc. of Japan 1967- (Hon. Chair. 1974), Magazine Advertising Assn. of Japan 1967-; mem. Japanese Nat. Cttee. for UNESCO 1967-76; Adviser, Japan Cultural Assn. with Foreign Countries 1968-; mem. Int. Cttee. of Int. Publishers' Assn. (IPA) 1968, Exec. Cttee. of IPA 1970; Dir.-Gen. Tokyo Book Devt. Centre 1971-; Vice-Pres. IPA 1972-76, Asian Cultural Centre for UNESCO 1973-; Dr. h.c. (Moscow) 1976; Printers' Cultural Prize, Japan Printers' Assn. 1967; Int. Book Award of Int. Book Cttee. 1974. *Address:* Kodansha Ltd., 2-12-21 Otowa, Bunkyo-ku, Tokyo 112 (Office); 2-11-30 Sekiguchi, Bunkyo-ku, Tokyo 112, Japan (Home). *Telephone:* 03-945-1111 (Office); 03-941-0880 (Home).

NONO, Luigi; Italian composer; b. 29 Jan. 1924; s. of Mario and Maria Manetti Nono; m. Nuria Schoenberg 1955; two d.; studied with Bruno Maderna and Hermann Scherchen; teacher New Music Summer School, Kranichsteiner Musikinstitut, Darmstadt 1957-, Dartington Hall Music Summer School, Devon (England) 1959, 1960; *Compositions:* Variazioni canoniche sulla serie dell' op. 41 di A. Schoenberg 1950, Polifonica-Monodia-Ritmica 1951, Composizione per Orchestra, I Epitafio per F. García-Lorca, II Epitafio per F. García-Lorca 1952, III Epitafio per F. García-Lorca, Due Espressioni per Orchestra 1953, La victoire de Guernica (poem by P. Eluard), Liebeslied, Der Rote Mantel (ballet) 1954, Canti per 13, Incontri 1955, Il Canto Sospeso 1956, Varianti 1957, La Terra [redacted] la Campagna (Words by C. Pavese), Cori di Didone (words by G. Ungaretti) 1958, Composizione per Orchestra N. 2—Diario Polacco '58 1959, Ha Venido (words by A. Machado) 1960, Sarà dolce tacere (words by C. Pavese) 1960, Omaggio [redacted] Emilio Vedova (electronic music) 1960, Intolleranza 1960 1961 (words by A. M. Ripellino, V. Mayakovsky, P. Eluard, H. Alleg, J.-P. Sartre, B. Brecht, I. Fucik), Sul Ponte di Hiroshima 1962 (words by G. Anders. J. L. Pacheco and C. Pavese), Canciones A Guiomar 1963 (words by A. Machado), Dal Diario Italiano 1964, A Floresta é Jorem e Cheia de vida 1966, La Fabrica illuminata (words by G. Scabia) 1966, Ricorda Cosa ti Hanno Fatto in Auschwitz 1966, Per bastiana tai-yangcheng 1967, Contrappunto dialettico alla mente (words by S. Sanchez, N. Balestrini; for tape) 1968, Musica manifesto N.1: Un volto, del mare (words by C. Pavese; for voice and tape) 1968-69, Y entonces comprendió (Words by C. Franqui; for tape, 6 women's voices and chorus) 1969-70, Ein Gespenst geht um in der Welt (words by K. Marx, C. Sanchez, H. Santamaria; for solo soprano, chorus and orchestra) 1971, Como una ola de fuerza y luz (words by J. Huasi; for soprano, piano, orchestra, tape) 1971-72, Al gran sole carico d'amore (words by E. Guevara, A. Rimbaud, Louise Michel, T. Bunke, B. Brecht, K. Marx, Lenin, C. Pavese, C. Sanchez, H. Santamaria, etc.; scenic action in two acts) 1972-75, Canto per il Vietnam (mixed chorus) 1973, Für Paul Dessau (for tape) 1974, ... sofferte onde [redacted] ... (for piano and tape) 1976. *Address:* Giudecca 882, 30123 Venice, Italy. *Telephone:* Venice 28368.

NORBERG, Dag, D.PH.; Swedish classical scholar; b. 31 July 1909, Strängnäs; s. of Otto Norberg and Gunhild Rappe; m. Brita von Otter 1939; four s.; ed. Uppsala Univ.; Docent, Uppsala Univ. 1937-

48; Prof. of Latin Language and Literature, Stockholm Univ. 1948-75, Dean, Faculty of Humanities, 1960-63; Pres. (Rector), Stockholm Univ. 1966-74; mem. Human Vetenskapssamfundet i Uppsala 1946, Vitterhetsakademien 1955, Danske Videnskabernes Selskab 1964, Vetenskapsakademien 1965; Corresp. Acad. Inscriptions et Belles-Lettres; Pres. Int. Fed. of Socs. of Classical Studies 1964-69. *Publications:* In Registrum Gregorii Magni studia I-II, 1937-39, Syntaktische Forschungen 1943, Beiträge zur spätl. Syntax 1944, Horatius sista lyriska diktning 1945, La poésie latine rythmique du haut moyen âge 1953, Introduction à l'étude de la versification latine médiévale 1958, Den romerska litteraturen in Bonniers allmänna litteraturhistoria 1959, Epistulae s. Desiderii Cadurcensis 1961, Processen mot Caelius och Ciceros försvarstal 1965, Manuel pratique de latin médiéval 1968, Au seuil du Moyen Age 1974, Notes critiques sur l'Hymnarius Severinianus 1977. *Address:* University of Stockholm, Drottninggatan 116, Stockholm, Sweden. *Telephone:* 34-08-60.

NORBOM, Jon Ola; Norwegian economist and politician; b. 15 Dec. 1923, Baerum; m. Ellen Ann Hook 1954; two d.; ed. Oslo Univ.; Sec., Ministry of Industry 1950-54; Asst. Research Economist, Nat. Bureau of Econ. Research, N.Y. 1954; Statistician UN Office, N.Y. 1955; Research Econ. and later Expert [illegible] Commercial Policy, GATT, Geneva 1959-67; Parl Under-Sec. of State, Ministry of Finance 1967-69; Dir. Int. Trade Centre, UNCTAD/GATT, Geneva 1971-72, 1973; Minister of Finance and Customs 1972-73; Chair. Norwegian Young Liberals 1950-52; mem. Nat. Exec. Liberal Party. *Address:* c/o International Trade Centre UNCTAD/GATT, Geneva (Office); 1299 Commugny, Vaud, Switzerland (Home).

NORD, Hans Robert, D.IUR.; Netherlands lawyer and international civil servant; b. 11 Oct. 1919, The Hague; s. of Charles F. L. Nord and Philippina C. Elshout; m. Margaret Ena Bevan 1951; two s.; ed. Gymnasium, The Hague, and Leiden Univ.; Barrister, The Hague 1943-45; Legal Adviser 1945-61; Pres. European Movement in the Netherlands 1958-61; Chair. Netherlands Atlantic Cttee. 1954-61; Sec.-Gen. European Parl. 1961-; Officer, Order of Orange-Nassau, Commdr. Order of Merit of Italy, Commdr. Order of San Carlos, Colombia, Commdr. Nat. Order, Ivory Coast. *Publications:* The Idea of Representation in Constitutional Law 1945, Problems of International Government 1948, International and Supra-National Co-operation 1952, In Search of a Political Framework for a United Europe 1956, NATO 1961. *Leisure interests:* music, literature, travel. *Address:* Centre Européen, Kirchberg, P.O.B. 1601, Luxembourg (Office); 15 Rue Conrad I, Luxembourg (Home). *Telephone:* 22703 (Home).

NORDAL, Jóhannes, PH.D.; Icelandic economist and baker; b. 11 May 1924, Reykjavík; s. of Prof. Sigurdur Nordal and Ölöf Jónsdóttir; m. Dóra Gudjónsdóttir 1953; one s. five d.; ed. Reykjavík Grammar School and L.S.E., London; Chief Economist, Nat. Bank of Iceland 1954-59, Gen. Man. 1959-61; Gov., Central Bank of Iceland (Sedlabanki Islands) 1961-, Chair. Board of Governors 1964-; Chair. of Board Nat. Power Co. (Landsvirkjun) 1965-; Gov. IMF for Iceland 1965-; Chair. Humanities Div. of Science Fund for Iceland 1958-; [illegible] Soc. Scientiarum Islandica 1959-; Grand Knight Order of Falcon 1966. *Publications:* Iceland 1966; Editor Fjármálatíáindi (Financial Review) 1954-; Co. Editor Nýtt Helgafell (literary periodical) 1955-59. *Address:* Sedlabanki Islands, Hafnarstraeti 10, Reykjavík (Office); Laugarásvegur 11, Reykjavík, Iceland (Home). *Telephone:* 20500 (Office); 33350 (Home).

NORDEN, Albert; German professor, politician and historian; b. 4 Dec. 1904, Myslowitz; ed. Wuppertal-Elberfeld; joined Communist Youth League 1919, German CP 1920; trained [illegible] woodworker 1921-23; Editor, subsequently Editor-in-Chief, German communist dailies 1923-33; arrested for political activities 1923, 1924, 1926; expelled from Germany by fascist govt; engaged in anti-fascist activities 1933-45; held as political prisoner [illegible] France 1939-40; emigrated to U.S.A. 1941; mem. Council for [illegible] Democratic Germany; Editor bulletin Germany Today; returned to Germany 1946; Prof. of History Humboldt Univ., Berlin, 1952; G.D.R. State Sec. 1954; mem. SED, Sec. SED Cen. Cttee. 1955-, mem. Politburo 1958-; mem. People's Chamber 1958-, G.D.R. Council of State 1976-; Vice-Pres. World Peace Council 1977-; Karl Marx Order, Star of Int. Friendship (Gold), Hero of Labour, Order of Int. Friendship (U.S.S.R.) *Publications:* Die wahren Herren Deutschlands 1939, The Thugs of Europe 1942, Lehren deutscher Geschichte 1947, So werden Kriege gemacht 1950, Zwischen Berlin und Moskau 1954, Fälscher 1959, Herrscher ohne Krone 1973, Selected Speeches and Essays (4 vols.) 1964, 1969, 1974. *Address:* Central Committee, Sozialistische Einheitspartei Deutschlands, 102 Berlin, Marx-Engels-Platz, German Democratic Republic.

NORDENFALK, Carl (Adam Johan), FIL.DR.; Swedish [illegible] official and university professor; b. 13 Dec. 1907; ed. Univs. of Uppsala, Stockholm, Gothenburg; Asst. Curator, Gothenburg Art Museum 1935-44; Curator, Nat. Museum of Arts, Stockholm 1944-58, Dir.-Gen. 1958-69; Mellon Prof., Univ. of Pittsburgh 1971-72, 1973-; Slade Prof. Univ. of Cambridge 1972-73; Kress Prof. Nat. Gallery, Washington 1973-; [illegible] Royal Soc. of Sciences (Uppsala), Royal Swedish Acad. of Letters; Visiting [illegible] Inst. for Advanced Study, Princeton 1949-50, 1957, 1967-70; Corresp. Fellow British Acad. 1967-, Bavarian Acad. of Sciences (Munich), German Archaeological Inst. etc.; Hon. mem. Swedish Royal Acad. of Fine Arts, Real Acad. de Bellas Artes de San Fernando (Madrid), American Philosophical Soc. *Publications:* Die spätantiken Kanontafeln 1938, Vincent [illegible] Gogh 1943, Kung Praktiks och Drottning Teoris jaktbok 1955, Die spätantiken Zierbuchstaben 1970, Codex Cae[illegible] Upsaliensis 1971; also co-author of several books: (with A. Grabar) Le Haut Moyen-Age 1957, La peinture romaine 1958, Treasures of Swedish Art 1965, Medieval and Renaissance Miniatures from the Lessing J. Rosenwald collection 1975, Vergilius Augusteus 1976. *Address:* Department of Fine Arts, University of Pittsburgh, Pa. 15260, U.S.A.

NORDENSON, Harald, PH.D.; Swedish industrialist: b. 10 Aug. 1886, Göttingen; s. of Dr. med. Erik Nordenson and Bertha Kleman; m. Clare Lagercrantz 1914; three s. [illegible] d.; ed. Uppsala Univ.; Lecturer Physical Chem., Uppsala Univ. 1914-19; Technical Dir. Liljeholmens Stearin A.B., Stockholm 1917-29, Man. Dir. 1929-50, Chair. 1950-63; Chair. Svenska Dagbladet, Stockholm, 1940-62, Stockholms Superfosfat Fabriks AB 1931-60, Nitroglycerin A.B. 1938-60, A.B. Stockholms Bryggerier 1950-63, The Royal Dramatic Theatre 1933-38; Pres. Chamber of Commerce, Stockholm 1939-57; Consultant mem. of First Chamber of the Riksdag 1938-53; mem. Swedish Acad. of Sciences, Soc. of Sciences Uppsala, Swedish Acad. of Eng. Sciences. *Publication:* Relativity, Time and Reality. *Leisure interests:* physics, philosophy, philately. *Address:* Borgarhemmet, Högalldsgatan 28, 11730 Stockholm, Sweden. *Telephone:* 08.687353.

NORDLANDER, Carl-Henrik, LL.D.; Swedish banking executive; b. 10 July 1909, Öregrund; [illegible] Anna-Greta Weslien 1938; [illegible] two d.; ed. Univ. of Stockholm; Judge, Court of Appeal 1948-50; Under-Sec. Dept. of Agriculture 1950-53; Chair., Board of Agric. 1953-59, Nat. Debt Bd. 1956-59; Gov. Minster 1959-60; Pres. Sveriges Kredit and PK bank 1961-74; Gov. Sveriges Riksbank 1976-. *Leisure interest:* farming. *Address:* Sveriges Riksbank, Box 16283, S-103 25 Stockholm (Office); Gravlingsvagen 31, S-161 37 Bromma, Sweden (Home). *Telephone:* Nr 08/22 82 00 (Office); Nr 08/25 [illegible] 65 (Home).

NORDLI, Odvar; Norwegian politician; b. 3 Nov. 1927, Stange, Hedmark; ed. in business administration; Asst. Baerum Municipal Auditor's Office 1948-49; Chief Clerk, Hedmark County Auditor's Office 1949-57; District Auditor, Vang and Löten 1957-61; mem. Storting 1961-; mem. and Deputy Chair. Stange Municipal Council 1952; Chair. Municipal Cttee. of Hedmark Labour Party 1960-; Deputy [illegible] Central Cttee. of Labour Party 1965, Chair. Hedmark Labour Party 1968; Chair. Trade Union and Labour Party Tax Cttee. 1967-68; Leader Parl. Labour Party 1973-76; Vice-Chair. Parl. Municipal Cttee. 1965-69; Chair. Parl. Social Welfare Cttee. 1969-71; Minister of Labour and Municipal Affairs 1971-72; Chair. Comm. of Defence 1974-75; Prime Minister Jan. 1976-. *Address:* Akersgt. 42, Dep., Oslo 1, Norway. *Telephone:* 11-90-90.

NORDSTRÖM, Torkel, LL.D.; Swedish former judge; b. 12 March 1910, Halmstad; s. of Thorsten Nordström and Tora Afzelius; m. Vera Starfelt 1937; three d.; ed. Univ. of Lund; Assoc. Judge, Svea Court of Appeal 1946-53, Ordinary Judge 1953-55; Justice of the Supreme Court 1955-77, Chief Justice 1976-77; [illegible] Drafts Legislation Cttee. 1951-55; Hon. LL.D. (Lund) 1973. *Publications:* Commentaries on the Citizenship Act 1952 and the Hire Purchase Act 1957; Editor Swedish Statute Book (annual) 1974-. *Leisure interests:* gardening, genealogy. *Address:* Åsbacken 25, Bromma, Sweden. *Telephone:* 08/26-06-34.

NØRGAARD, Ivar, MA. (ECON.); Danish politician; b. 26 July 1922, Kongens Lyngby; s. of Ingvar and of the late Olga Nørgaard; m. 1st Inge Gothenborg 1947 (died 1972), two d.; m. 2nd Sonja Nørgaard 1974; ed. Copenhagen Univ.; Sec., Customs Dept., Ministry of Finance 1947; Sec., Econ. Council, Labour Movement 1948-55; Dir. Workers' High School, Esbjerg 1955; Political Editor-in-Chief Aktuelt 1961-64, Man. Editor 1964-65; Minister of Econ. Affairs 1965-68, also Minister for European Market Relations 1967-68; mem. Parl. 1966-; taught at Danish High School of Admin. 1969; Minister for Foreign Econ. Affairs 1971-72, for Foreign Affairs 1972-73, for Foreign Econ. Affairs and Nordic Relations 1975-77,

for Trade, Industry and Shipping 1977-78; Minister for the Environment 1978-; Dir. Workers' Educ. Assn. 1964-65; mem. Board of Danish Nat. Bank 1968, Lyngby-Taarbaek Municipality 1954-55, Atomic Energy Comm. 1956-65, Nat. Wage Board 1968-71; co-founder and fmr. Vice-Pres. of Social Dem. students org. Free Forum; mem. Nordic Ministerial Council; mem. and Vice-Pres. European Parl. 1974-75. *Publications:* Lærebog i Nationaløkonomi (Textbook on National Economy) 1949, Focus på National-økonomien (Focus on the National Economy), Din løn og Samfundets økonomi (Your Wage and the National Economy); Editor and Co-author Din økonomi og Samfundets (Your Own and the Community's Economy) 1960; Co-editor and Co-author Arbejderhåndbog for Samarbejdsudvalg (Workers' Manual on Industrial Council Work) 1954. *Address:* Nydamsvej 15, 2880 Bagsaerd, Denmark. *Telephone:* 01-12 76 88.

NØRLAND, Niels; Danish journalist; b. 12 Aug 1924, Copenhagen; s. of Poul and Nanna (née Møller) Nørlund; m. Jette Hjejle 1951; four s.; Staff reporter Berlingske Tidende 1942, Coresp. Berlin 1946, London 1949, New York 1950, Washington 1954, Asst. Editor in Chief 1962, Man. Editor 1967, Editor-in-Chief 1970-; Chair. Danske Europa Journalister; mem. Danish Press Council 1971, Editorial Advisory Board of Atlantic Inst. for Int. Affairs, Assen. of European Journalists; Order of Dannebrog; Award for Distinguished Achievement in Journalism (Univ. of Calif.) 1965. *Publications:* Kampen om Tyskland 1950, Verden siden 1945 1962, Da krigen kom 1964, Lykkens befordring 1976. *Address:* 34 Pilestraede, 1147 Copenhagen K (Office); Bilsebjerggård, Ting-Jellinge, 83 Skælskørvej, 4261 Dalmose, Denmark. *Telephone:* 01-157575 (Office); 03-588550 (Home).

NORLING, Bengt Olov: Swedish politician; b. 12 Jan. 1925; Malmö; s. of David Norling and Margeta Thorsén; m. Elisabeth Stöfling 1946; one s.; ed. privately; Railway worker until 1956; Ombudsman, Swedish Railwaymen's Union 1956-65; Ombudsman, Swedish Confed. of Trade Unions 1965-68; Sec. 1969; Minister of Transport and Communications 1969-76, mem. of Parl. (Social Dem. Party) 1971-; Gov. of Värmlands 1977-. *Leisure interest:* music. *Address:* Landshövding, Karlstad, Sweden.

NORLUND, Niels Erik, PH.D.; Danish mathematician; b. 26 Oct. 1885, Slagelse; s. of Alfred Christian and Sophie (Holm) Norlund; m. Agnete Weaver 1912; two d.; ed. Copenhagen, Paris and Göttingen Univs.; fmr. Prof. of Mathematics Copenhagen Univ.; Dir. Danish Geodetic Inst.; Pres. Rask-Örsted Foundation 1928-64; Pres. Royal Danish Acad. of Science 1927-33; Vice-Pres. Int. Council of Scientific Unions 1931, Pres. 1934; Foreign mem. Royal Soc. and Royal Astronomical Soc.; mem. Acads. of Science in Paris, Rome, Stockholm, Oslo, Uppsala, Naples and Helsinki; Editor Acta mathematica; Hon. DSc. (London and Dijon); Hon. D.Eng (Darmstadt); Hon. Ph.D. (Lund and Olso). *Publications:* Vorlesungen über Differenzenrechnung 1924, Leçons sur les séries d'interpolation 1926, Leçons sur les équations aux différences finies 1929, The Map of Denmark 1942, The Map of Iceland 1944. *Address:* Landsretssagfører Ernest Bohr, Frederiksholms Kanal 20, K. 127230, Copenhagen, Denmark.

NORMAN, Sir Arthur Gordon, K.B.E., D.F.C.; British business executive; b. 18 Feb. 1917, North Pertherton, Somerset; s. of Christopher William Norman and Mary Christine Milton; m. Margaret Doreen Harrington 1944; three s. two d.; ed. Blundell's School; Thomas De La Rue and Co. 1934-, Asst. Gen. Man. 1947, Dir. 1951, Man. Dir. 1953; Chair. The De La Rue Co. Ltd. 1964-77, non-exec. Chair. 1977-; R.A.F. 1941-46; Pres. CBI 1968-70; Dir. Sun Life Assurance Soc., SKF (U.K.) Ltd.; Trustee, R.A.F. Museum, World Wildlife Fund (International); Chair. of Trustees, World Wildlife Fund (U.K.) 1977; Chair of Govs., Sherborne School. *Leisure interests:* tennis, golf, country life. *Address:* 3-5 Burlington Gardens, London, W1A 1DL (Office); Sturminster Newton, Dorset, England (Home). *Telephone:* 01-734 8020.

NORMAN, Jessye, B.MUS.; American concert and opera singer; b. 15 Sept. 1945, Augusta, Ga.; d. of Silas and Janie (King) Norman; ed. Howard Univ., Washington, D.C., Peabody Conservatory, Univ. of Michigan; Vocal Winner, Int. Musikwettbewerb, Bayerischer Rundfunk, Munich, Fed. Repub. of Germany 1968; operatic début Deutsche Oper Berlin 1969; début La Scala, Milan 1972, Royal Opera House, Covent Garden 1972; American operatic début, Hollywood Bowl 1972; tours in N. and S. America, Europe, Middle East, Australia; int. festivals incl. Aix-en-Provence, Aldeburgh, Berliner Festwochen, Edinburgh, Flanders, Helsinki, Lucerne, Salzburg, Tanglewood, Spoleto, Hollywood Bowl, Ravinia; with leading orchestras from U.S.A., U.K., Israel, Australia; Grand Prix du Disque (Acad. du Disque Français) 1973, 1976, 1977; Deutsche Schallplatten Preis fur Euryanthe 1975; Cigale d'Or (Aix-en-Provence Festival) 1977. *Leisure interests:* reading, cooking, houseplant growing, fashion designing. *Address:* c/o Harry Beall Management Inc., 119 West 57th Street, New York, N.Y. 10019, U.S.A. *Telephone:* 586-8135.

NORMAN, Willoughby Rollo; British business executive; b. 12 Oct. 1909, Hindhead; s. of Sir Henry Norman and The Hon. Lady Florence Priscilla McLaren; m. 1st The Hon. Barbara Jacqueline Boot 1934, one s. two d.; m. 2nd Caroline Haskard 1973; ed. Eton Coll. and Magdalen Coll., Oxford; Army Service 1939-45; Vice-Chair. Boots Pure Drug Co. Ltd. 1954-61, Chair. 1961-72, Hon. Pres. 1972-; fmr. Dir. Nat. Westminster Bank Ltd. and fmr. Chair. Eastern Region; Dir. Guardian Royal Exchange Assurance, Sheepbridge Eng. Ltd.; Deputy Chair. English China Clays Ltd. *Leisure interests:* shooting, fishing, gardening. *Address:* Hurst Mill, Petersfield, Hants.; 28 Ranelagh House, Elystan Place, London, S.W.3, England. *Telephone:* Harting 216; and 01-589 0467.

NORMANT, Henri, D.ÈS SC.; French scientist; b. 25 June 1907, Plozévet; s. of Jean Normant and Anne Gentric; m. Madeleine Sosson 1932; two s. three d.; ed. Collège Saint Louis, Brest, and Univ. de Caen; Prof. of Organic Synthesis, Faculty of Sciences, Paris 1952-; Pres. Second Section, Ecole Pratique des Hautes Etudes 1969-; mem. Centre Nat. de la Recherche Scientifique; mem. Conseil Nat. de l'Enseignement Supérieur et de la Recherche; mem. Acad. des Sciences 1966, Deutsche Akademie Leopoldina, Comité Consultatif des Univs.; Lauréat de la Soc. Chimique de France et l'Acad. des Sciences; Pres. Soc. Chimique de France 1971, Soc. Encouragement pour l'Industrie Nat.; Fellow, Royal Soc. of Arts; Chevalier Légion d'honneur; Officier de l'Instruction Publique. *Publications:* Chimie Organique (2nd edition) 1968, Recherches sur les Hétérocycles Oxygénés, sur les Organo-Métalliques (Magnésiens Vinyliques) et sur les Solvants. *Leisure interests:* hunting and fishing. *Address:* 40 bis rue Violet, 75015 Paris, France. *Telephone:* 579-9999.

NORODOM SIHANOUK, Prince Samdech Preah; former King of Cambodia; b. 31 Oct. 1922; s. of late King Norodom Suramarit and Queen Kossamak Nearireath; ed. in Saigon and Paris; elected King April 1941, abdicated March 1955; Prime Minister and Minister of Foreign Affairs Oct. 1955, March 1956, Sept. 1956, April 1957; Perm. Rep. to UN Feb.-Sept. 1956; elected Head of State after death of his father 1960, took oath of fidelity to vacant throne 1960, deposed March 1970; resided in Peking, China; established Royal Govt. of Nat. Union of Cambodia (GRUNC) May 1970; restored Head of State when GRUNC forces overthrew Khmer Repub. April 1975, resigned April 1976; Special Envoy of Khmer Rouge to UN 1979; Head of the Popular Socialist Community 1955-70; musician and composer; producer of film Le Petit Prince. *Publication:* My War With the C.I.A. (with Wilfred Burchett) 1973. *Address:* Peking, China.

NORRIS, Sir Eric George, K.C.M.G.; British diplomatist (retd.); b. 14 March 1918, Hertford; s. of late Henry F. Norris and of Ruth Norris; m. Pamela Crane 1941; three d.; ed. Hertford Grammar School and St. Catharine's Coll., Cambridge; Mil. service 1940-46; Dominions Office 1946; First Sec., Dublin 1948-50, Pakistan 1952-55; Counsellor, Delhi 1955-57; Deputy High Commr., Bombay 1957-60, Calcutta 1962-65; Asst. Under Sec. of State, Commonwealth Office 1966-68; High Commr. to Kenya 1968-72; Deputy Under Sec. of State, Foreign and Commonwealth Office 1972-73; High Commr. in Malaysia 1974-77; Dir. Inchcape, Assan Investments Ltd., London Sumatra Plantations Ltd. *Address:* Melton Half, Newdigate, Surrey, England.

NORSTAD, Gen. Lauris; American air force officer and business executive; b. 24 March 1907; ed. U.S. Military Acad.; commissioned Cavalry 1930; attended Air Corps Flying Schools 1930-31; Air Corps Service 1931-36; Adjutant 61st School Squadron, GHQ, Long Island 1936, 9th Bombardment Group; entered Air Corps Tactical School, Alabama 1939; Officer-in-Charge 9th Bombardment Group Navigation School 1940; Adjutant 25th Bombardment Group 1940; Asst. Chief of Staff in Intelligence, GHQ, Va. 1940-42; Asst. Chief of Staff (Operations) Twelfth Air Force, in England and N. Africa 1942; Dir. of Operations, Mediterranean Allied Air Forces 1943-44; Chief of Staff Twentieth Air Force, Washington 1944-45; Asst. Chief of Air Staff (Plans) 1945; Dir. of Plans and Operations, War Dept. 1946-47; Lieut.-Gen. 1947; Deputy Chief of Staff (Operations) 1947-50; Acting Vice-Chief of Staff 1950; C.-in-C. U.S. Air Forces in Europe 1951-56; Supreme Allied Commdr. in Europe 1956-62; Chair. Owens-Corning Fiberglas Corpn. 1967-72, now Hon. Chair.; Dir. Abitibi Paper Co.; mem. Assen. of Graduates of U.S. Mil. Acad.; Hon. Trustee, Eisenhower Coll., Seneca Falls; D.S.M. with two Oak Leaf Clusters, Silver Star, Legion of Merit with Cluster, Air Medal; Hon. O.B.E., Légion d'honneur, Croix de guerre, Ordre

du Ouissam Alaouit Cherifien (Morocco), Dr. of Mil. Science (Maryland), Diploma for the Royal Order of King George I (Greece), Grand Cross Order of Avis (Portugal). *Address:* 717 Fifth Avenue, New York, N.Y. 10022, U.S.A. (Office). *Telephone:* 212-759-3810.

NORTHROP, John Howard, PH.D.; American chemist; b. 5 July 1891, Yonkers, N.Y.; s. of Dr. John I. Northrop and Alice Belle Rich; m. Louise Walker 1917; one s. one d.; ed. Columbia Univ.; W. B. Cutting Travelling Fellow, Columbia Univ.; working in Jacques Loeb's Lab., Rockefeller Inst., 1915; apptd. to staff of Rockefeller Inst. 1916, mem. 1924-61, Emer. 1961-; Visiting Prof. Univ. of Calif. 1949-58, Emer. 1962-; Stevens Prize, Coll. of Physicians and Surgeons Columbia Univ. 1931; Capt. Chemical Warfare Service 1917-18; discovered and worked on fermentation process for manufacturing acetone; Sc.D. (Harvard) 1936, (Columbia) 1937, (Yale) 1937, (Princeton) 1940, (Rutgers) 1941; LL.D. (Calif.) 1939; De Lamar Lecturer, School of Hygiene and Public Health, Johns Hopkins Univ. 1937; Jessup Lecturer Columbia Univ. 1938; Hitchcock Lecturer Calif. 1939; Thayer Lecturer Johns Hopkins Univ. 1940; Chandler Medal, Columbia Univ. 1937; Daniel Giraud Elliot Medal for 1939, Nat. Acad. of Sciences; shared Nobel Prize in Chem. 1946; Alex. Hamilton Award, Columbia Univ. 1961; mem. Nat. Acad. of Sciences, Halle Akad. der Naturforscher, etc.; Cert of Merit U.S.A. 1948; Hon. mem. Chemical Soc., London, Benjamin Franklin Fellow, Royal Soc. for the Encouragement of Arts; Fellow, World Acad. Arts Soc. *Publication:* Crystalline Enzymes 1939. *Leisure interests:* hunting, fishing. *Address:* P.O. Box 1387, Wickenburg, Ariz. 85358, U.S.A.

NORVIK, Erling; Norwegian politician; b. [redacted] April 1928, Vadsø; s. of Mosse and Erling Norvik: m. Mardon Norvik 1950; [redacted] s. one d.; ed. Higher School of Commerce; Editor of local newspapers in Finnmark 1949-56; Sec. Finnmark Conservative Party 1956-61; [redacted] Parl. 1961-73; First Vice-Chair. of Conservative Party 1970-72, Sec.-Gen. 1972-74, Chair. 1974-. *Address:* Høyres Hovedorganisasjon, Stortingsgt. 20, Oslo 1, Norway. *Telephone:* 336970 (Office); 130711 (Home).

NOSOV, Yevgeny Ivanovich; Soviet author; b. 15 Jan 1925, Kursk; ed. Gorky Inst., Moscow, grad. 1962; Writer 1947-; *Publications include:* stories: Where the Sun Awakes 1965; Lunar Eclipse & Others 1966; The Red Wine of Victory & Other Tales (English trans.) 1974: Way Beyond the Hamlet; Country Stories 1974; Oats in the Meadow; Stories 1977; Usvyatskiye shlemonostsy. A Story 1977. *Address:* USSR Union of Writers, Ulitsa Vorovskogo 52, Moscow, U.S.S.R.

'NOTO, David Ketso; Lesotho civil servant and diplomatist; b. 21 July 1934, Quthing; m.; two s.; ed. Morija Training Coll.; Exec. Officer, Ministry of Works 1953-61; with Ministry of Finance 1961-74; Accountant-Gen. 1969-74; Perm. Sec. Cabinet Personnel 1974-75; Perm. Rep. to UN 1975-76; Amb. to Iran 1976-79; attended financial talks, U.K. 1969, OAU meeting of Heads of State and Govt., Kampala 1975. *Address:* c/o Ministry of Foreign Affairs, Maseru, Lesotho.

NOTT, Rt. Hon. John William, P.C., B.A., M.P.; British politician; b. 1 Feb. 1932; s. of Richard Nott and Phyllis Francis; m. Miloska Sekol 1952; two s. one d.; ed. King's Mead School, Seaford, Bradfield Coll., and Trinity Coll., Cambridge; Lieut. with 2nd Gurkha Rifles, service in Malayan Emergency (regular officer) 1952-56; called to the Bar, Inner Temple 1959; Gen. Man. S.G. Warburg and Co. Ltd. 1960-66; Chair. or Dir. several industrial cos. 1959-70; M.P. for St Ives, Cornwall 1966-; Sec. Conservative Parl. Finance Cttee. 1969-70, has served on All-Party Expenditure Cttee., Minister of State at Treasury 1972-74; Opposition Spokesman on Treasury and Econ. Affairs 1974-76, on Trade 1976-79; Sec. of State for Trade May 1979-; Pres. Cambridge Union 1959; Conservative. *Address:* House of Commons, Westminster, London, S.W.1, England.

NOUIRA, Hedi; Tunisian politician; b. 6 April 1911, Monastir; ed. High School, Sousse, and Paris; Sec. of Gen. Confed. of Tunisian Workers 1938; in detention 1938-43; Sec.-Gen. of Neo-Destour Party 1942-54, 1969-; Minister of Commerce 1954-55, of Finance 1955-58; Dir. of Central Bank of Tunisia 1958-70; Minister of State in Charge of the Economy June-Oct. 1970; Prime Minister Nov. 1970-. *Address:* Office du Premier Ministre, Tunis, Tunisia.

NOUMAZALAY, Ambroise; Congolese politician; b. 23 Sept. 1933, Brazzaville; ed. Mathematics Faculty Univ. of Toulouse, France; First Sec. Nat. Revolutionary Movement (MNR); Dir. of Econ. Affairs 1964-66; mem. Nat. Revolutionary Council (CNR) and Sec. Org. Cttee. of the CNR Aug.-Oct. 1968; Prime Minister and Minister of Planning 1966-68; Minister of State in charge of Planning Aug.-Dec. 1968, for Agric., Water Resources and Forests Dec. 1968-June 1969; Second Sec. responsible for the Execution of the Plan 1970-71; sentenced to life imprisonment March 1972.

NOURISSIER, Françoise; French writer and journalist; b. 18 May 1927, Paris; [redacted] of Paul E. E. Nourissier; [redacted] Cécile Muhlstein 1962; three c.; ed. Lycée Saint Louis, Lycée Louis-le-Grand, Paris, Ecole libre des Sciences politiques, Paris, and Faculté de Droit, Paris; [redacted] staff of Secours Catholique Int., and work with Int. Refugee Org. 1949-51; Dir. Chalet Int. des Etudiants, Combloux (World Univ. Service) 1951-52; Sec.-Gen. Editions Denoël 1952-56; Editor-in-Chief La Parisienne (review) 1956-58; Literary Adviser to Editions Grasset 1958-; Literary Dir. Vogue (French) 1964-66, Contributing Editor Vogue (American) 1964-; Literary Critic Les Nouvelles littéraires 1963-; Cinema Critic L'Express 1970-72; Literary Critic Le Point 1972-, Figaro-Magazine 1978-; mem. l'Acad. Goncourt 1977; Prix Félix Fénéon 1952, Grand Prix de la Guilde du Livre 1965 (Swiss), Grand Prix du Roman de l'Acad. française 1966, Prix. Fémina 1970, Prix Prince Pierre de Monaco 1975, Chevalier Légion d'honneur, Officier des Arts et des Lettres. *Publications:* L'eau grise (novel) 1951, Lorca (essay) 1955, Les orphelins d'Auteuil (novel) 1956, Le corps de Diane (novel) 1957, Portrait d'un indifférent 1957, Bleu comme la nuit 1958, Un petit bourgeois 1964, Une histoire française 1966, Les Français (essay) 1967, Le maître de maison 1968, The French (trans. of Les Français) 1970, Cartier-Bresson's France 1971, La crève (novel) 1970, Allemande (novel) 1973, Lettre à [redacted] chien (essay) 1975, Lettre ouverte à Jacques Chirac (essay) 1977, Le musée de l'homme (essay) 1979, Le cycliste du lundi; (essay) 1979. *Address:* 23 rue Henri Heine, 75016 Paris, France; 1824 Caux (Vaud), Switzerland. *Telephone:* 647 54-80 (Paris).

NOVÁK, Josef, PROF. RN.DR.; Czechoslovak mathematician; b. 19 April 1905, Třebětín, Letovice; s. of Alois Novák and Františka Nováková; m. Vladimíra Plocek 1936; one s. [redacted] d.; Asst. Univ. of Brno 1935-45, Prof. Mathematics, Univ. of Brno 1945-48; Czech Technical Univ., Prague 1948-51; Charles Univ. Prague 1952-; Mathematics Inst. of the Czechoslovak Acad. of Sciences 1952-; Academician, Czechoslovak Acad. of Sciences 1952-; Chair. of Mathematics and Physics Section of the Czechoslovak Acad. of Sciences 1955-61; Chair. Board of Mathematics, Czechoslovak Acad. of Sciences 1966-; Dir. Mathematical Inst. of the Czechoslovak Acad. of Sciences 1972-76; Chair. Asscn. of Czechoslovak Mathematicians and Physicists; [redacted] Advisory Cttee. for Science and Tech., ECOSOC; mem. Scientific Board of Int. Mathematical S. Banach Center 1972-; Order of Labour 1965, Gold Medal of Bernard Bolzano 1970, of Palacký Univ., Olomouc 1971, Gold Felber Medal, Czech Tech. Univ. 1975, Gold Medal of Brno Univ. 1976. *Leisure interests:* genetics, music, gardening. *Address:* Žitná 25, 115 67 Prague I, Czechoslovakia. *Telephone:* 226601-03.

NOVIKOV, Ignatiy Trofimovich; Soviet administrator; b. 2 Jan. 1906; ed. Dneprodzerzhinsk Metallurgical Inst.; Dir. of power station 1933-37; [redacted] CPSU 1926-; Chief Engineer and subsequently Dir. of factory Saratov 1937-41; Sec. Saratov District Cttee. CPSU 1941-43, Chief Glavenergozapchast (Soviet [redacted] electricity authority) 1943-50; Deputy Head of Construction Gorky Power Station 1950-54; Head of Construction Kremenchug Power Station 1954-58; Minister of Power Station Construction 1958-62; Vice-Chair. Council of Ministers U.S.S.R. 1962-; Minister of Electric Power Devt. and Electrification 1962-; Chair. Gostroi (State Construction Org.) 1962-; Chair. Org. Cttee., 1980 Olympic Games; mem. Cen. Cttee. CPSU 1961-; Deputy to U.S.S.R. Supreme Soviet 1962-; Hero of Socialist Labour, Order of Lenin (four times), Hammer and Sickle Gold Medal, etc. *Address:* State Committee for Construction, U.S.S.R. Council of Ministers, 4 Prospekt Marxa, Moscow, U.S.S.R.

NOVIKOV, Vladimir Nikolayevich; Soviet politician; b. 6 Dec. 1907; ed. Technical Inst., Leningrad; Technician, Designer, Engi[redacted] and Dir. Izhevsk Armaments Plant; mem. CPSU 1936-; Deputy Commissar for Armaments 1941-48; mem. staff Ministry of Defence Industry 1948-54, Deputy Minister of Defence Industry 1954-55; First Deputy Minister of Machine Building 1955-57; Chair. Leningrad Regional Econ. Council 1957-58; Chair. R.S.F.S.R. Planning Cttee. and First Deputy Chair. R.S.F.S.R. Council of Ministers 1958-60; Chair. U.S.S.R. Planning Cttee. (GOSPLAN) 1960-62; Perm. Soviet Rep. to Exec. Cttee. of COMECON 1962-70; Chair. U.S.S.R. Council of Ministers Comm. for Foreign Econ. Affairs 1962-; Vice-Chair. U.S.S.R. Council of Ministers 1965-; mem. CPSU Central Cttee. 1961-; Deputy to U.S.S.R. and R.S.F.S.R. Supreme Soviets 1938-46, 1958-; Hero of Socialist Labour, Order of Lenin (five times), Hammer and Sickle Gold Medal, etc. *Address:* U.S.S.R. Council of Ministers, The Kremlin, Moscow, U.S.S.R.

NOVOSELOVA, Aleksandra Vasiliyevna, D.SC.; Soviet chemist; b. 23 March 1900, Verezino; ed. Moscow State Univ.; Lecturer, Moscow State Univ. 1926-41, 1943-46, Prof. 1946-, Dean of Faculty of Chemistry 1949-55; Senior Research Assoc., U.S.S.R. Inst. of

Experimental Medicine 1941-43; corresp. mem. U.S.S.R. Acad of Sciences 1953-70, Academician 1970-; Order of Lenin (twice), U.S.S.R. State Prize 1948, Lomonosov Prize 1970. *Address:* Department of Chemistry, Moscow State University, Leninskie Gory, Moscow, U.S.S.R.

NOVOSYOLOV, Yefim Stepanovich; Soviet politician; b. 1906; ed. Kharkov Engineering Inst.; worker, later engineer, Staro Kramatorsk Eng. Factory (Donets Basin) 1922-29, 1933-38; mem. CPSU 1925-; engineer, People's Commissariat of Heavy Eng. 1938-39; Chief Engineer, Dir. of Central Research Inst. for Eng. Tech. 1939-42; Dir. of Novo-Kramatorsk Eng. Factory, Elektostal (Moscow Region) 1942-49; Deputy Minister for Building and Road Building Eng. 1949-53; Head of Central Heavy Eng. Div. of Ministry for Heavy and Transport Eng. 1953-54; Minister for Eng. for the Building and Road Building Industries 1954-57; Head of Dept., State Planning Cttee. of U.S.S.R. 1957-60; Vice-Chair. State Econ. Council of U.S.S.R. 1960-62; Chair. State Cttee. for Eng. for Building, Road Building and Municipal Industries (U.S.S.R. State Cttee. for Construction) 1962-65; Minister of Machine Building for Construction, Road Building and Municipal Services 1965-; mem. Cen. Auditing Cttee. CPSU 1966-76, Cand. mem. Cen. Cttee. CPSU 1976-; Deputy to U.S.S.R. Supreme Soviet 1966-. *Address:* Ministry of Machine Building for Construction, Road Building and Municipal Services, Prospekt Kalinina 23, Moscow, U.S.S.R.

NOVOZHILOV, Valentin Valentinovich; Soviet mechanical engineer; b. 18 May 1910, Lublin, Poland; ed. Leningrad Physico-mechanical Inst.; Leningrad Research Insts.1931-46; Instructor, Leningrad Univ. 1946-49, Prof. 1949-; Assoc. Lab. of Mathematical and Econ. Problems, Eng. Econ. Inst. 1962-; Corresp. mem. U.S.S.R. Acad of Sciences 1958-66, mem. 1966-, Hero of Socialist Labour 1969, Order of Lenin (twice) etc. *Publication:* Theory of Extensibility 1958. *Address:* Leningrad University, Leningrad, U.S.S.R.

NOWACKI, Paweł Jan, D.SC., M.I.E.E.; Polish university professor and nuclear physicist; b. 25 June 1905, Berlin; s. of Jan and Katarzyna (née Misiek) Nowacki; m. 1st Stefania Barbara Leszczyńska 1937 (divorced 1962), 2nd Irena Natalia Sztark 1963 (died 1969); one s. one d.; ed. Jahn Realschule, Berlin, High School, Poznań, Technical Univ., Lwów; Lecturer, Technical Univ., Lwów 1929, 1931-36; Design Engineer, Siemens Co., Germany and Poland 1930-37; Senior Scientific Officer, Royal Aircraft Establishment, Farnborough 1942-46; Chief Engineer, Study Office, Polish Central Electricity Board 1947-52; Prof. Chair. of Electrical Machinery, Tech. Univ., Wroclaw 1947-53, Electrical Instruments 1953-59, Nuclear Eng. 1959-, Tech. Univ. of Warsaw 1951-70; Dir.-Gen. Inst. of Nuclear Research, Warsaw 1958-70; Corresp. mem. Polish Acad. of Sciences 1956-61, mem. 1961-; Corresp. mem. Royal Swedish Acad. of Tech. Sciences 1958-, Schweizerische Gesellschaft für Automatik 1959, mem. Polish State Council for the Utilization of Atomic Energy 1956-; mem. Exec. Council, Int. Fed. of Automatic Control (IFAC) 1957-61, Vice-Pres. 1961-66, Pres. 1966-69; Chair. Scientific Station Polish Acad. of Sciences, Paris 1971-76; Chair. Scientific Council, Inst. of Biocybernetics and Biomedical Eng., Polish Acad. of Sciences, Warsaw; mem. Inst. of Electrical Engineers, London; Individual State Award (1st class) 1956, Officer's Cross, Order of Polonia Restituta 1958, Silver Cross of Merit, Royal Swedish Acad. of Tech. Sciences 1958, Order of Banner of Labour 2nd Class 1959, (1st Class) 1966, Gold Medal of Ministry of Power Industry and Nuclear Energy 1978. *Publications:* Long Transmission Lines 1953, The Calculation of Short-Circuit Currents in Electrical Networks 1955, Symmetric Components 1954, Theory of Automatic Control, Vol. I 1958, Vol. II 1962, The Polish Power Programme 1947, (co-author) The Polish Nuclear Power Programme (Second Geneva Conference) 1958, Theory of the Magnetohydrodynamic Generator 1961, The Programming and Utilisation of Research Reactors (IAEA Symposium, Vienna) 1961, Théorie et applications de la physique des plasmas à basses températures 1965, The Importance of Automatic Control 1969, The Production of Refined Intermediate Fuels with High Temperature Reactors (IAEA proceedings) 1977. *Leisure interests:* painting, motor sport, sailing. *Address:* Ulica Wałowa 4 m. 34, 00-211 Warsaw, Poland. *Telephone:* 314373 (Warsaw).

NOWACKI, Witold, DR.ING.; Polish university professor; b. 20 July 1911, Zakrzewo; s. of Ludwik Nowacki and Bronisława Czyzewska; m. Janina Sztaba 1936; two s. one d.; ed. Gdańsk Polytechnic; Dozent Warsaw Polytechnic 1945; Prof. Gdańsk Polytechnic 1946-52; Prof. Warsaw Polytechnic 1952-54; Prof. Warsaw Univ. 1955-, Dir. Inst. of Mechanics; mem. Polish Acad. of Sciences 1952, Deputy Gen. Sec. 1957-65, Gen. Sec. 1965-68, Vice-Pres. 1969-77, Pres. 1977-; Deputy Chair. Council for Family Affairs attached to the Council of Ministers 1978-; Editor-in-Chief The Review of the Polish Acad. of Sciences; mem. Int. Union of Theoretical and Applied Mechanics; Foreign mem. Czechoslovak Acad. of Sciences, Bulgarian Acad. of Sciences, Austrian Acad. of Sciences; mem. PUWP; Polish State Prize 1949, 1955 and 1965; Dr. h.c. Glasgow, Gdańsk Polytechnic, Royal Inst. of Tech. (Stockholm) 1977, Liège 1978, Grenoble 1978; numerous decorations including Order of the Banner of Labour (1st Class), Commdr. Cross with Star of Polonia Restituta, State Prize 1st Class 1955, 1964, Medal of 30th Anniversary of People's Poland 1974, Order of Builders of People's Poland 1977. *Publications:* Mechanics of Structural Analysis, Thermoelasticity, Dynamics of Elastic Systems, Theory of Elasticity, Dynamic Problems of Thermoelasticity 1976, Theory of Micropolar Elasticity, papers on applied mechanics, especially theories of structure and elasticity. *Address:* Polska Akademia Nauk, Pałac Kultury i Nauki, Warsaw, Poland (Office); Ul. Wiejska 18, m. 8, 00-490 Warsaw, Poland (Home). *Telephone:* 20-41-68 (Office); 29-13-31 (Home).

NOWAK, Tadeusz; Polish writer and poet; b. 11 Nov. 1930, Sikorzyce, near Dąbrowa Tarnowska; ed. Jagiellonian Univ., Cracow; work first published 1948; mem. Polish Writers' Assn. 1952–, mem. Gen. Board 1978-; Editor poetry section in Tygodnik Kulturalny, Warsaw 1965-; Prize of City of Cracow 1966; Gold Cross of Merit 1967; St. Piętak Prize 1969; Prize of Minister of Culture and Arts, 1st Class 1971, State Prize, 2nd Class 1974, Chevalier Cross of Polonia Restituta 1975, Prize of weekly Kultura 1978, Literary Prize of Cen. Council of Trade Unions 1978. *Publications:* poetry: Uczę się mówić 1953, Porównania 1954, Prorocy już odchodzą 1956, Ślepe koła wyobraźni 1958, Kolędy stręczyciela 1962, Psalmy 1971, Bielsze nad śnieg 1973, Wybór wierszy (selected poems) 1973; novels: Obcoplemienna ballada 1963, A jak królem, a jak katem będsiesz 1968, Diabły 1971, Takie większe większe 1973, Dwunastu 1974, Prorok 1977; short stories: Przebudzenia 1962, Wybór opowiadań (selected short stories) 1969, Półbaśnie 1976. *Address:* Ul. Wiolinowa 2, m. 45, 02-789 Warsaw, Poland. *Telephone:* 655-98.

NOWAK, Zenon; Polish politician and diplomatist; b. 27 Jan. 1905, Pabianice; fmr. miner in Westphalia and Silesia and weaver in Pabianice; mem. Union of Communist Youth; frequently arrested and imprisoned for politicial activities; prisoner-of-war 1940-45; Sec. Voivodship Cttee., Polish Workers' Party, Poznań 1947-48, then 1st Sec. Katowice; mem. Cen. Cttee. PUWP 1948-; Sec. Cen. Cttee. PUWP 1948-56; mem. Political Bureau 1948-56; Vice-Chair. Council of Ministers 1952-68; Deputy to Seym 1953-56, 1961-72; Chair. Party Control Cen. Comm. 1968-71; Chair. Supreme Chamber of Control 1969-71; Amb. to U.S.S.R. 1971-78; Order of Builder of People's Poland, Order of Banner of Labour, Order of Polonia Restituta, 2nd Class 1975, Order of October Revolution (U.S.S.R.) 1975. *Address:* c/o Ministry of Foreign Affairs, Warsaw, Poland.

NOWAR, Ma'an Abu; Jordanian diplomatist; b. 26 July 1928, Salt; m. Vivian Ann Richards (died 1974); two s. seven d.; ed. London Univ.; joined Jordanian Arab Army 1943, Commdr. Infantry Brigade 1957-63; Counsellor, Jordanian Embassy, London 1963; Dir. Jordan Civil Defence 1964-67, Jordan Public Security 1967-69; Asst. Chief of Staff for Gen. Affairs 1969-72; Minister of Culture and Information 1972; Amb. to U.K. 1973-76; Jordanian Star 1st Class. *Leisure interests:* reading, music, theatre, sports, television, cinema, [illegible]. *Address:* c/o Ministry of Foreign Affairs, Amman, Jordan.

NOYES, W(illiam) Albert, Jr., B.A., D. ÈS S.; American chemist; b. 18 April 1898, Terre Haute, Indiana; s. of William Albert Noyes and Flora Collier Noyes; m. Sabine Onillon 1921; [illegible] s.; ed. Grinnell Coll., Univ. of Paris, Univs. of Geneva, Illinois and California; Instructor, Univ. of Calif. 1921-22, Univ. of Chicago 1922-23, Asst. Prof. 1923-29; Assoc. Prof. Brown Univ. 1929-35, Prof. 1935-38; Prof. Univ. of Rochester 1938-63, Emer. 1963-; Chair. Chem. Dept. 1939-55, Dean, Graduate School 1952-56; Act. Dean and Dean Coll. of Arts and Science 1956-58, Univ. Distinguished Prof. 1961-63; Ashbel Smith Prof. of Chem., Univ. of Tex. 1963-73, Emer. 1973-; Prof. Univ. of Nancy 1969; Section Chair. Nat. Defence Research Cttee. 1940-42, Div. Chief 1942-46; Staff, Chief Chemical Warfare Service, U.S. Army 1942-46; Adviser, Dept. Army and Dept. of State; Chair. Div. of Chem. and Chemical Tech., Nat. Research Council 1947-53; mem. Board of Trustees, Sloan-Kettering Inst. for Cancer Research 1950-63; mem. Executive Cttee. Int. Union of Pure and Applied Chemistry 1955-59, Pres. 1959-63; Pres. American Chemical Society 1947; mem. Nat. Acad. of Sciences, American Philosophical Society; Hon. mem. Soc. Chimique de France; Foreign Assoc., Acad. des Sciences, France 1975-, Royal Soc. of Physics and Chem. (Spain), Soc. of Chem. (Belgium); foreign hon. mem. Acad. of Sciences, Lisbon, Chemical Soc., London; Hon. D.Sc. (Grinnell Coll., R.I., Paris, Indiana, Ottawa, Montreal, Illinois, Rochester, Carleton, Laval Univs.); King's Medal for Service in Cause of

Freedom (U.K.), Medal of Merit (U.S.A.), Officier, Légion d'honneur, Priestley Medal, Willard Gibbs Medal, Charles L. Parsons Award; Editor Chemical Reviews 1939-49, Journal of American Chemical Society 1950-62, Journal of Physical Chemistry 1952-64. *Publications:* Photochemistry of Gases (with P. A. Leighton) 1941, Modern Alchemy (with W. A. Noyes) 1932, Traité de chimie physique (with H. Weiss); translation into French of book by E. W. Washburn 1925; (Ed.) Chemistry in World War II 1948, Photochimie et spectroscopie 1937, Advances in photochemistry Vols. 1-7 (with G. S. Hammond, J. N. Pitts), A Victorian in the Twentieth Century (memoirs) 1976. *Leisure interests:* history, international affairs, music. *Address:* 5102 Prairie View, Austin, Texas 78731, U.S.A. *Telephone:* 512-452-5571.

NSEKELA, Amon James, M.A., DIP.ED., F.I.B.A.; Tanzanian diplomatist; b. 4 Jan. 1930, Lupepo, Rungwe; s. of late Ngonile Reuben Nsekela and of Anyambilile Nsekela (née Kalinga); m. Christina Matilda Kyusa 1957; two s.; ed. Rungwe District School, Malangali Secondary School, Tabora Govt. Sr. Secondary School, Makerere Univ. Coll., and Univ. of the Pacific, Calif., U.S.A.; District Officer 1960-61; Clerk to the Cabinet 1961-63; Perm. Sec. Ministry of External Affairs and Defence 1963-64; Principal Sec. Ministry of Commerce and Industries 1964-66; Principal Sec. to Treasury 1966-67; mem. E. African Legis. Ass. 1967-70; [illegible] and Sec. of Presidential Comm. on the Establishment of a Democratic One-Party State, mem. Pratt Cttee. on Decentralization of Govt.; mem. Parl. 1973-74; High Commr. to U.K. 1974-; Chair. and Man. Dir. Nat. Bank of Commerce 1967-74; Chair. Nat. Insurance Corpn. of Tanzania 1967-72, Univ. Council 1970-74, Council of the Inst. of Finance Man. 1971-74; fmr. Chair. Nat. Provident Fund Investment Cttee., Ralli Estates Ltd., Int. Trading and Credit Co. of Tanganyika, Tanganyika Devt. Corpn. (now Nat. Devt. Corpn.), Tanganyika Electric Supply Co. Ltd., Instant Coffee Co. Ltd., Nyanza Salt Mines Ltd., TANITA Co. Ltd.; Dir. Board of Internal Trade, Coastal Hotels Ltd., Dar es Salaam Motor Transport, Nat. Devt. Corpn.; fmr. Dir. Williamson Diamonds Ltd., E. African Airways, Tanzania Investment Bank; Pres. Econ. Soc. of Tanzania until 1972. *Publications:* Minara ya Historia ya Tanganyika: Tanganyika hadi Tanzania, Demokrasi Tanzania, Socialism and Social Accountability in a Developing Nation, The Development of Health Services in Mainland Tanzania: Tumetoka Mbali (with Dr. A. L. Nhonoli). *Leisure interests:* squash, swimming, table tennis. *Address:* Tanzania High Commission, 43 Hertford Street, London, W1Y 7TF (Office); Dar el Noor, 9 Lupa Way, P.O. Box 722, Mbeya, Tanzania (Home). *Telephone:* 01-499 8951 (Office); 4.1.30 (Home).

NSUBUGA, H. E. Cardinal Emmanuel; Ugandan ecclesiastic; b. 1914; ed. seminaries in Buganda; Ordained priest 1946; Vicar-Gen. Rubaga Archdiocese 1961, later Vicar Capitular; Archbishop of Kampala Aug. 1966-; created Cardinal 1976. *Address:* Archdiocese of Kampala, P.O. Box 14125, Mengo, Kampala, Uganda.

NTLHAKANA, Thabo Ephraim; Lesotho diplomatist and civil servant; b. 23 June 1935, Leribe; s. of Seth S. E. and Adelaide Ntlhakana; m. Maselometsi Regina 1961; one s. four d.; Secondary school teacher 1957-62; Information Officer, newspaper editor and broadcaster in Govt. Dept. of Broadcasting and Information 1965-70; Counsellor, Lesotho High Comm., U.K. 1970-74; Chief U.K. Protocol, Maseru Oct. 1974-May 1975; Dir. Information and Broadcasting June-Sept. 1975; High Commr. in U.K. 1975-76; Amb. to Belgium 1976-78. *Leisure interests:* singing, gardening, football, tennis, athletics. *Address:* c/o Ministry of Foreign Affairs, Maseru, Lesotho.

NU, U (formerly **Thakin Nu**), B.A.; Burmese politician and writer; b. 1907; ed. Rangoon Univ.; for [illegible] years headmaster Nat. High School, Pantanaw; joined Dobhama Asiayone (Our Burma) Org.; sentenced to term of imprisonment at outbreak of Second World War; released after Japanese occupation; organized Dobhama Asiayone and later joined wartime Govt. as Minister of Foreign Affairs in Dr. Ba Maw's Cabinet 1943-44; Minister for Publicity and Propaganda 1944-45; elected Vice-Pres. Anti-Fascist People's Freedom League (Nationalist Coalition) after Allied re-occupation; elected Speaker Constituent Ass. 1947; Deputy Chair. Gov.'s Exec. Council July 1947; signatory Anglo-Burmese Treaty, London, preliminary to Burmese Independence and first Prime Minister of Burmese Republic 1948-56; resigned to devote himself to the reorganization of Anti-Fascist People's Freedom League; Prime Minister 1957-58; Prime Minister, Minister of Home Affairs, Relief and Resettlement, Democratization of Local Admin., Information, Transport, Posts and Telegraphs, Shipping and Aviation, Housing and Rehabilitation 1960-62; in custody 1962-66; left Burma 1969 to organize opposition movement to Burmese regime; living in Thailand Nov. 1969-Oct. 1970; returned to Burma to lead revolutionary movement opposing Government of Gen. Ne Win Oct. 1970. *Publications:* plays and stories.

NUJOMA, Sam; South West African nationalist leader; b. 12 May 1929, Ongandjera; ed. Finnish Protestant Mission School, St. Barnabas School, Windhoek; with State Railways until 1957; Municipal Clerk, Windhoek 1957; Clerk in wholesale store 1957-59; Founder, with Herman Toivo ja Toivo, and Pres. SWAPO (S.W. Africa People's Org.) April 1959-; arrested Dec. 1959; went into exile 1960; appeared before UN Cttee. on S.W. Africa June 1960; set up SWAPO provisional HQ in Dar Salaam, Tanzania March 1961; arrested on return to Windhoek and formally ordered out of the country March 1966; turned to armed struggle after rejection by Int. Court of Justice of SWAPO complaint against S. Africa Aug. 1966; gave evidence at UN Security Council Oct. 1971. *Address:* c/o Mr. Peter H. Katjavivi, 21/25 Tabernacle Street, London, E.C.2, England.

NUNES, Admiral Adalberto de Barros; Brazilian naval officer and politician; b. 20 Oct. 1905, Rio de Janeiro; s. of Admiral Adalberto Nunes and D. Maria Cândida de Barros Nunes; m. Maria Carolina de Souza Nunes 1931; no c.; ed. Colégio Militar do Rio de Janeiro, Escola Naval and Escola de Guerra Naval; Head of Naval Information Services 1956-57; Chief of Cabinet of Minister of the Navy 1957-58; Dir. Escola Naval 1958-60; Dir.-Gen. of Hydrographics and Navigation 1960-62, of Naval Electronics 1962-63; C.-in-C. of Fleet 1963-64; Dir. Gen. of Ports and Coastlines 1964-66; Sec.-Gen. of the Navy 1966-68; Chief of Staff of Navy 1968-69; Minister of the Navy 1969-74; orders from Brazil, Argentina, Chile, Peru, Belgium, Portugal, Spain, Italy and Bolivia. *Leisure interests:* sport (especially football), country life. *Address:* Avenida Atlantica 514, Apto. 407-Leme, Rio de Janeiro, RJ, Brazil.

NUNGESSER, Roland; French politician; b. 9 Oct. 1925, Nogent-sur-Marne; m. Michèle Jeanne Elizabeth Selignac 1957; three d.; ed. Ecole Libre des Sciences Politiques; Commissaire-général du Salon Nautique Int. 1957-; Vice-Pres. Chambre Syndicale des Industries Nautiques; Pres. Conseil Nat. de la Navigation de Plaisance 1961-67; Mayor of Nogent-sur-Marne 1959-; mem. Nat. Ass. 1958-; Sec. of State for Housing 1966-67; Sec. of State at Ministry of Economy and Finance 1967-68; Minister of Youth and Sports May-July 1968; Pres. Franco-Soviet Chamber of Commerce 1969–; Vice-Pres. Nat. Ass. 1969-74; Pres. Conseil Général du Val de Marne 1970-76; [illegible] Rassemblement pour la République (fmrly. U.D.S.). *Leisure interests:* motor yachting, athletics, tennis, golf. *Address:* Assemblée Nationale, Paris 7e; 18 [illegible] Duvelleroy, 94 Nogent-sur-Marne, France. *Telephone:* 871-16-53.

NUNN, Sam; American politician and lawyer; b. 8 Sept. 1938, Perry, Ga.; s. of Samuel Augustus Nunn and Elizabeth Canon Nunn; m. Colleen O'Brien 1964; one s. one d.; ed. Emory Univ. and Emory Univ. Law School, Atlanta; State Rep. to Ga. Ass. 1968-72; U.S. Senator from Georgia 1973-; Democrat. *Leisure interest:* golf. *Address:* 110 Russell Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* (202) 225-3521.

NUNN, Trevor Robert, C.B.E.; British theatre director; b. 14 Jan. 1940, Ipswich; s. of Robert Alexander Nunn and Dorothy May (née Piper); m. Janet Suzman (*q.v.*) 1969; ed. Northgate Grammar School, Ipswich and Downing Coll., Cambridge; Trainee Dir. Belgrade Theatre, Coventry; Assoc. Dir. Royal Shakespeare Co. 1964; Artistic Dir. 1968-, Joint Artistic Dir. 1978-; [illegible] also Chief Exec.; toured U.S.A., Australia with own version of Hedda Gabler 1975; London Theatre Critics' Best Dir. Award for The Revenger's Tragedy and The Winter's Tale 1969, Soc. of Film and TV Arts Award for Antony and Cleopatra 1975, Ivor Novello Award for Best British Musical of 1976 for The Comedy of Errors (Lyrics), Soc. of West End Theatre Awards, Best Musical of the Year, for The Comedy of Errors 1977. *Productions:* Tango 1965, The Revenger's Tragedy 1965, 1969, The Taming of the Shrew, The Relapse, The Winter's Tale 1969, Hamlet 1970, Henry VIII 1970; Roman Season: Antony and Cleopatra, Coriolanus, Julius Caesar, Titus Andronicus 1970; Macbeth 1974, 1976, Hedda Gabler (own version) 1975, Romeo and Juliet 1976, Comedy of Errors 1976, Winter's Tale (co-dir.) 1976, King Lear (co-dir.) 1976, Macbeth 1976, The Alchemist 1977, As You Like It 1977, Every Good Boy Deserves Favour 1977, Three Sisters 1978; *TV:* Antony and Cleopatra 1975, Comedy of Errors 1976, Every Good Boy Deserves Favour 1978, Macbeth 1978; *film:* Hedda (own scripted version). *Address:* Royal Shakespeare Theatre, Stratford-upon-Avon, Warwickshire, England.

NUORVALA, Aarne Johannes; Finnish judge; b. 18 April 1912, Viipuri; s. of Karl Elias Nylenius and Aino Tyyne Ranta; m. Hellin Helena Hintikka 1945; one s. three d.; ed. Helsinki Secondary School and Univ. of Helsinki; Civil Servant, Ministry of Finance 1944; Junior Cabinet Sec. 1945, Senior 1946-50; Junior mem. Comm. for Drafting Legislation 1950-55, Senior [illegible] 1955; Extra Justice of Supreme Admin. Court 1955-57, Justice 1957-63; Sec.-Gen.

Deputy Prime Minister and mem. Cabinet 1963-64; Chancellor of Justice 1964, Pres. Supreme Admin. Court 1965-; [illegible] High Court of Impeachment 1965-; Chair. Supreme Court of Office 1966-; Hon. LL.D. *Address:* Korkeavuorenkatu 13A 2, 00130 Helsinki 13, Finland. *Telephone:* 62-66-38.

NUR KHAN, Air Marshal M.; Pakistani air force officer and airline executive; b. 1923, Tamman, Punjab; m.; [illegible] s. three d.; ed. Col. Brown's Cambridge School and Prince of Wales Royal Indian Mil. Coll., Dehra Dun.; commissioned Royal Indian Air Force 1941; Man. Dir. Pakistan Int. Airlines (PIA) 1959-65; C.-in-C. Pakistan Air Force 1965-69; Gov. W. Pakistan 1969; Chair. PIA Nov. 1973-; Pres. Pakistan Hockey Fed. 1967-69, 1977-; Hilal-e-Jurat 1965. *Leisure interests:* boxing, football, hockey, swimming, squash. *Address:* Pakistan International Airlines Corporation, PIA Building, Karachi Airport, Pakistan. *Telephone:* 412011, Ext. 2666.

NUREYEV, Rudolf (Hametovich); Ballet dancer (b. U.S.S.R.); b. 17 March 1938, Ufa; ed. Ufa and Leningrad Choreographic School; Winner Moscow Nat. Students Competition; joined Kirov Ballet, Leningrad [illegible] soloist 1958; sought politicial asylum in the West during tour in Paris 1961; joined Grand Ballet du Marquis de Cuevas 1961; London début Charity Gala 1961; appeared with Dame Margot Fonteyn and the Royal Ballet, London 1962, and became her principal partner; has since danced all over the world in over 50 ballets, including [illegible] the nineteenth century classics [illegible] well [illegible] contemporary roles in both classical and modern style; Guest artist in 25 companies; Choreographer Tancredi 1965, The Nutcracker 1967, Romeo and Juliet 1977; revised and directed La Bayadere, Act III 1963, Raymonda 1964, Swan Lake 1964, The Sleeping Beauty 1966, Don Quixote 1970; Nutcracker; *films include:* An Evening with the Royal Ballet 1963, Romeo and Juliet 1966, Swan Lake 1966, Le Jeune Homme et la Mort 1966, I am [illegible] Dancer 1972, Don Quixote 1972, Valentino 1977. *Publication:* Nureyev, [illegible] autobiography. *Address:* c/o Gorlinsky Ltd., 35 Dover Street, London, W.1, England.

NURIYEV, Ziya Nuriyevich; Soviet politician; b. 21 March 1915; ed. CPSU High School; in educ. system 1933-38, 1940-42; Soviet Army 1938-40; Party work 1942-52; Second Sec. Bashkir Regional Party Cttee. 1952-57, First Sec. 1957-69; Deputy mem. Presidium of U.S.S.R. Supreme Soviet 1954-59; mem. U.S.S.R. Council of Collective Farms; Minister of Agricultural Procurements of U.S.S.R. 1969-73; Deputy Chair. Council of Ministers 1973-; mem. Cen. Cttee. of CPSU 1961-; Order of Lenin (twice), Order of Red Banner and other decorations. *Address:* U.S.S.R. Council of Ministers, The Kremlin, Moscow, U.S.S.R.

NURJADIN, Air Chief Marshal Roesmin; Indonesian diplomatist; b. 31 May 1930, Malang; m. Surjati Subali 1962; ed. primary and high schools, and Gajah Mada Univ.; Squadron Commdr. 1953-60; Commdr.-in-Chief, Operational Command 1962-64; Air Attaché, Bangkok and Moscow 1964-66; Minister, Commdr.-in-Chief, Chief of Staff, Air Force 1966-70; Amb. to U.K. 1970-74, to U.S.A. 1974-77, Minister of Communications 1978-; various mil. and foreign decorations. *Leisure interests:* golf, sport, reading. *Address:* Ministry of Communications, Jakarta, Indonesia.

NUSEIBEH, Dr. Hazem; Jordanian politician and diplomatist; Deputy Chair. of Devt. Board 1958-60; Under-Sec. Ministry of Nat. Economy 1959-60; Sec.-Gen. of Devt. Board 1961-62; Minister of Foreign Affairs 1962-63, 1965-66; Minister of Reconstruction and Devt. 1967-68; Amb. to Egypt 1969-71, to Turkey 1971-73, to Italy 1973-76; Perm. Rep. to UN 1976-. *Address:* Permanent Mission to United Nations, 866 United Nations Plaza, Room 550-552, New York, N.Y. 10017, U.S.A.

NUTTING, Rt. Hon. Sir (Harold) Anthony, Bt., P.C.; British politician and writer; b. 11 Jan. 1920; ed. Eton and Trinity Coll., Cambridge; in British Foreign Service 1940-45; M.P. 1945-56; Chair. Young Conservative and Unionist Movement 1946, Nat. Union of Conservative and Unionist Asscns. 1950, Conservative Nat. Exec. Cttee. 1951; Parl. Under-Sec. of State for Foreign Affairs 1951-54; Minister of State for Foreign Affairs 1954-56 (resigned over British Suez policy); Leader, U.K. Del. to UN Gen. Ass. and UN Disarmament Comm. 1954-56. *Publications:* I Saw for Myself 1958, Disarmament 1959, Europe Will Not Wait 1960, Lawrence of Arabia 1961, The Arabs 1964, Gordon, Martyr and Misfit 1966, No End of [illegible] Lesson 1967, Scramble for Africa 1970, Nasser 1972. *Address:* 1 Disbrowe Road, London, W.6, England.

NYAGAH, Jeremiah Joseph Mwaniki; Kenyan politician; b. 24 Nov. 1920, Kigare, Embu; [illegible] of Joseph Nthiga Mwonge and Mary Mbiro; m. Eunice Wambere 1947; five. s. two d.; ed. Alliance High School, Makerere Coll. and Oxford Univ.; Teacher, Intermediate Schools and Teacher Training Coll.; Secondary schools and Teacher Training Coll. teacher 1954-56; Asst. Educ. Officer; mem. Legis. Council 1958-60, 1961-; Deputy Speaker 1960; [illegible] House of Reps. 1963-; Junior Minister, Ministry of Works, Communications and Power 1963-64; Junior Minister, Ministry of Home Affairs 1964-66; Vice-Pres. for Kenya African Nat. Union (KANU) E. Region March 1966-; Minister of Educ. 1966-68; Chair. Nat. Library Service Board April 1966-; Minister of Natural Resources 1968-69, of Information 1969-70, of Agric. and Animal Husbandry Oct. 1970-; Pres. Inter-African Coffee Org.; mem. Boards of Govs. of many schools, Univ. Coll. Council, Nairobi, E. African Univ. Council, Boy Scouts' Training Team; Elder of the Golden Heart (Kenya), Africa Star Medal (Liberia). *Leisure interests:* sport, athletics. *Address:* Ministry of Agriculture, P.O. Box 30028, Nairobi (Office); P.O. Box 37, Embu, Kenya (Home).

NYAMOYA, Albin; Burundian politician; b. 1924, Ngozi Province; ed. Ecole Supérieure, Astrida (now Butare, Rwanda); qualified [illegible] veterinary surgeon; held various posts at the Ministry of Agric. and Stockbreeding, Ruanda-Urundi 1945-61, Minister of Agric. and Stockbreeding 1961-62; Minister of Interior and Information, Burundi 1962-63; Prime Minister and Minister of State 1964-65; Minister of State 1965-66; Deputy to Nat. Ass. 1963-66; various posts in Ministry of Agric. [illegible] Stockbreeding 1966-72, Dir.-Gen. 1970-71, Minister 1971-72; Prime Minister and Minister of the Interior 1972-73; Nat. Exec. Sec., [illegible] Cen. Cttee., Political Bureau, Unity and Nat. Progress Party until 1973. *Address:* P.O. Box 1017, Bujumbura, Burundi.

NYAMWEYA, James, LL.B.; Kenyan politician; b. 28 Dec. 1927, Kisii; m. Tabitha Moige 1948; four s. four d.; ed. King's Coll., London and Lincoln's Inn, London; Legal Asst. in Ministry of Legal Affairs, Kenya 1958-59; Advocate, Private Legal Practitioner, Supreme Court of Kenya 1959-63; Founder-mem. and mem. Central Exec. Cttee. Kenya African Nat. Union (KANU) 1959-63, Chair. Kisii 1962-64; Parl. Sec. to Ministry of Justice and Constitutional Affairs 1963, and in the Office of the Prime Minister 1964-65; Minister of State, Provincial Admin. Civil Service, Office of the Pres. 1965-66; Leader of Govt. Business in the House of Reps. May-Dec. 1966; Minister of State, Foreign Affairs, Office of the Pres. and Leader of Govt. Business in Nat. Ass. Jan. 1967, Minister of Power and Communications until Dec. 1969, Minister of Works 1969-74, of Labour Nov. 1974-; Hon. LL.D. (U.S.A.). *Address:* Ministry of Labour, Nairobi, Kenya.

NYBOE ANDERSEN, Poul, DR.OECON.; Danish banker, economist and politician; b. 23 Nov. 1913, Ladelund; s. of Anders Ander[illegible] and Kristine Andersen; m. Edith Raben 1938; three s. one d.; ed. Univ. of Copenhagen; Teacher at Krogerup Folk High School; study visit to U.S.A. 1947; Asst. Prof. of Political Economy, Copenhagen Graduate School of Econs. and Business Admin. 1948-50, Prof. 1950-71; Chair. Board for Tech. Co-operation with Developing Countries 1962-68; Chair. Board of Dirs. of Danish Co-operative Wholesale Soc. 1956-66; Bursar of Carlsberg Foundation and New Carlsberg Foundation 1966-68; Minister for Econ. Affairs, Nordic Affairs and European Market Relations 1968-71; M.P. 1971-77; mem. Council of Europe 1971-73, Nordic Council 1971-73; Minister for Econ. Affairs and Commerce 1973-75; Chief Gen. Man. Andelsbanken Danebank 1976; Liberal. *Publications:* Penge og Penges Vaerd (Money and its value) 1941, Danish Exchange Policy 1914-1939 1942, Fra Guldfod til Clearing (From Gold Standard to Clearing) 1942, Bilateral Exchange Clearing Policy 1946, Laanerenten (Loan interest) 1947, Den økonomiske Sammenhaeng (Interaction of Economic Forces) 1947, Kortfattet Larebog i Nationaløkonomi (Brief Textbook on Political Economy) 1948, Land og by (Country and Town) 1949, Nationaløkonomi (Political Economy) in collaboration with Bjarke Fog and Poul Winding 1952, Udenrigsøkonomi (International Economic Relations) 1955. *Address:* Gl. Strandvej 19, 3050 Humlebaek, Denmark. *Telephone:* 03-192703.

NYEMBO SHABANI, D.SC.(ECON.); Zairian professor of economics and politician; b. 5 Aug. 1937, Kayanza; ed. Inst. Saint Boniface, Elisabethville (now Lubumbashi), and Univ. Catholique de Louvain, Belgium; Dir., Bureau of Econ. Co-operation attached to the Prime Minister's Office 1964-65; Research in Econs. Univ. Catholique de Louvain 1967-76; Prof. Faculty of Econ. Science, Nat. Univ. of Zaire Oct. 1976-; State Commr. for Nat. Econ. and Industry Feb.-Aug. 1977, for Nat. Econ. 1977-78, for the State Portfolio (Investments) 1978-. *Publications:* L'industrie du cuivre dans le monde, Le progrès economique du Copperbelt Africain. *Address:* Building Onatra, B.P. 8. 500, Kinshasa 1 (Office); B.P. 3. 824, Kinshasa 1, Zaire (Home).

NYERERE, Dr. Julius Kambarage, M.A.; Tanzanian politician; b. April 1922, Butiama-Musoma, Lake Victoria; s. of Chief Nyerere

Burito; ed. Musoma Native Authority Primary School, Tabora Govt. Senior Secondary School, Makerere Coll., Uganda and Edinburgh Univ.; Teacher, St. Mary's R.C. School, Tabora 1946-49; student at Edinburgh Univ. 1949-52; teacher, St. Francis' R.C. Coll. 1953-55; Founder-Pres. Tanganyika African Nat. Union (TANU) 1954-77; Founder-Chair. Chama Cha Mapinduzi Feb. 1977-; elected Tanganyika Legis. Council 1958, leader Elected Members Org. 1958-60; Chief Minister 1960-61; Prime Minister May 1961-Jan. 1962; Pres. of Tanganyika 1962-64, of Tanzania 1964-; Minister of External Affairs Dec. 1962-March 1963, 1965-72; Commdr.-in-Chief of the Armed Forces 1973-; Chancellor, Univ. of East Africa 1963-70, Univ. of Dar Salaam 1970-. *Publications:* Freedom and Unity—Uhuru Umoja 1967, Freedom and Socialism—Ohuru Ujamaa 1968, Ujamaa: Essays on Socialism 1969, Freedom and Development—Uhuru na Maendelo 1973, Crusade for Liberation; Swahili trans. of Julius Caesar and The Merchant of Venice 1969. *Leisure interest:* reading. *Address:* P.O. Box 9120, Dar es Salaam, Tanzania (Home). *Telephone:* 23261 (Home).

NYERS, Rezsö; Hungarian economist and politician; b. 1923, Budapest; m. Ilona Witz 1946; one s.; Printer until 1945; mem. Parl. 1947-53, 1958-; Vice-Pres. Nat. Assen. of Co-operatives 1954-56; Minister of Food Industry 1956-57; Pres. Nat. Assen. of Co-operatives 1957-60; Minister of Finance 1960-62; Sec. Cen. Cttee. HSWP 1962-74; Political Cttee. HSWP 1966-75; Dir. Inst. of Econs., Hungarian Acad. of Sciences 1974-. *Publications:* The Co-operative Movement in Hungary 1963, Gazdaságpolitikánk és a gazdasági mechanizmus reformja (Economic Policy and Reform of Economic Management) 1968, A magyar népgazdaság a szocializmus építésének útján (Hungary's National Economy on the Road towards Socialism) 1973. *Leisure interests:* reading, theatre, tennis, riding, philately. *Address:* Institute of Economics, Hungarian Academy of Sciences, H-1112 Budapest XI., Budaörsi út. 43-45, Hungary.

NYMAN, Olle; Swedish painter; b. 24 Dec. 1909; ed. Decorative School Philip Månsson and Royal Acad. Art School, Stockholm; Prof. Royal Acad. of Arts 1953-63; Arts Council of Govt. 1956-58; Swedish Royal Acad. 1953; first one-man exhbn. Stockholm 1950; represented in Museum of Modern Art, Stockholm and Museum of Art, Malmö; mem. Art Cttee. School of Stockholm 1958-62, and Cttee. Thiel Gallery Stockholm. *Major works include:* monumental wall decorations in Stockholm at City Hospital of Medicine 1951, High School of Medicine 1955, roof painting for Olaus Petri Church 1958, tapestry for Handelsbanken 1959, Skandinaviska banken 1964, Uppsala Univ. Library 1967, Parliament House 1971, interior for church of Skövde 1973, frescoes for Bank of Sweden 1975, wall paintings for Uppsala High School of Agric. 1976. *Address:* Strandpromenaden 61, Saltsjö-Duvnäs, Stockholm, Sweden. *Telephone:* 08-7164205.

NZAMBIMANA, Lieut.-Col. Edouard; Burundian army officer and politician; Minister of Public Works, Transport and Equipment 1974-76; participated in coup which overthrew Pres. Micombero Nov. 1976; Prime Minister 1976-78 and Minister of Planning 1976-78, of Agric., Livestock and Rural Devt. 1978, of Foreign Affairs and Co-operation 1978-. *Address:* c/o Ministère des Affaires Etrangères, Bujumbura, Burundi.

O

OAKES, John Bertram, A.M., LL.D.; American journalist; b. 23 April 1913, Elkins Park, Pa.; s. of George W. Ochs-Oakes and Bertie Gans Ochs; m. Margery C. Hartman 1945; [illegible] three d.; ed. Princeton Univ., and The Queen's Coll., Oxford; Reporter Trenton Times 1936-37; Political Reporter Washington Post 1937-41; served U.S. Army 1941-46; Editor, Review of the Week, Sunday New York Times 1946-49, mem. Editorial Board 1949-61, Editorial Page Editor 1961-77, Sr. Editor 1977-; Carnegie Foundation Travel Award (for int. journalism) 1961, George Polk Memorial Award 1966 (as editor), Jefferson Award of Unitarians 1968 (service in [illegible] of religious liberty), Dept. of Interior of U.S. Conservation Award 1962, Silurian Soc. Award 1969, Garden Club of America Award 1969, Woodrow Wilson Prize (Princeton Univ.) 1970, Environment Award, Natural Resources Defense Council 1977; Bronze Star (U.S.); Hon. M.B.E.; Croix de guerre (France). *Publication:* The Edge of Freedom 1961. *Leisure interests:* sailing, walking, nature study, reading. *Address:* New York Times, 229 West 43rd Street, New York, N.Y., 10036 (Office) 1120 Fifth Avenue, New York, N.Y., U.S.A. (Home). *Telephone:* 212-556-1766 (Office); TE1-4583 (Home).

OAKESHOTT, Michael Joseph, M.A.; British political scientist; b. 11 Dec. 1901; ed. Caius Coll., Cambridge; Fellow of Caius Coll. 1925-; Univ. Lecturer in History, Cambridge 1929-49; Fellow of Nuffield Coll., Oxford 1949-50; Prof. of Political Science, Univ. of London (L.S.E.) 1950-69; Muirhead Lecturer, Birmingham Univ. 1953; Ludwig Mond Lecturer, Univ. of Manchester 1959. *Publications:* Experience and its Modes 1933, 1966, A Guide to the Classics 1936, Social and Political Doctrines of Contemporary Europe 1937, Hobbe's Leviathan (editor) 1946, The Voice of Poetry in the Conversation of Mankind 1959, Rationalism and Politics 1962, On Human Conduct 1975, Hobbes on Civil Association 1975. *Address:* 16 New Row, London, W.C.2, England.

OAKESHOTT, Walter Fraser, M.A.; British university official; b. 11 Nov. 1903, Lydenburg, Transvaal, S. Africa; s. of Dr Walter and Mrs Kathleen Oakeshott (née Fraser); m. Nöel Rose Moon 1928 (died 1975); two s. two d.; ed. Balliol Coll., Oxford; Schoolmaster, Bec School 1926-27, Merchant Taylors School 1927-30, Winchester Coll. 1930-38; High Master, St. Paul's School, London 1938-46; Headmaster, Winchester Coll. 1946-54; Rector of Lincoln Coll., Oxford 1954-72; Vice-Chancellor, Oxford Univ. 1962-64; Rhind Lecturer, Edinburgh Univ. 1956; Master, Skinners Co. 1960-61; Trustee Pilgrim Trust 1950-75; Vice-Pres. Bibliographical Soc., London, Pres. 1966-68. *Publications:* Men Without Work (co-author) 1938, Artists of the Winchester Bible 1945, Sequence of Medieval Art 1950, Classical Tradition in Medieval Art 1959, The Queen and the Poet 1960, The Mosaics of Rome from the Third to the Fourteenth Centuries 1968, Paintings at Sigena in Spain and the Winchester Bible Artists 1972, The Two Winchester Bibles 1979. *Leisure interests:* medieval books and libraries. *Address:* The Old School House, Eynsham, Oxford, England. *Telephone:* Oxford 880280.

OATLEY, Sir Charles (William), Kt., O.B.E., M.A., F.I.E.E., F.I.E.E.E., F.R.S.; British emer. professor of electrical engineering; b. 14 Feb. 1904, Frome, Somerset; s. of William and Ada M. (née Dorrington) Oatley; m. Dorothy E. West 1930; two s.; ed. Bedford Modern School and St. John's Coll., Cambridge; Lecturer, Univ. of London 1935-39; Radar Research and Devt. Establishment 1939-45, Acting Supt. in charge of scientific work 1944-45; Fellow Trinity Coll., Cambridge 1945-; Lecturer, later Reader, Dept. of Eng., Cambridge Univ. 1945-60, Prof. of Electrical Eng. 1960-71, Emer. Prof. 1971-; Dir. English Electric Valve Co. Ltd. 1966-; mem. Council of Royal Soc. 1970-72; Fellow, King's Coll., London 1976-; Hon. Fellow, Royal Microscopical Soc. 1970; Hon. D.Sc. (Heriot-Watt) 1974, (Bath) 1977; Achievement Award, Worshipful Co. of Scientific Instrument Makers 1966; Royal Medal, Royal Soc. 1969; Duddell Medal Inst. of Physics and Physical Soc. 1969; Faraday Medal, Inst. of Electrical Engineers 1970; Mullard Award, Royal Soc. 1973. *Publications:* The Scanning Electron Microscope Vol. I 1972, Electric and Magnetic Fields: An Introduction 1976; miscellaneous papers in scientific and technical journals. *Leisure interest:* gardening. *Address:* 16 Porson Road, Cambridge, England. *Telephone:* Cambridge 56194.

OBASANJO, Lt.-Gen. Olusegun; Nigerian army officer and politician; b. 5 March 1937, Abeokuta, Ogun State; m.; two s. three d.; ed. Abeokuta Baptist High School and Mons Officers' Cadet School, U.K.; joined Nigerian Army 1958, commissioned 1959; served in Congo (now Zaire) 1960; promoted Capt. 1963, Major 1965, Lt.-Col. 1967, Col. 1969, Brig. 1972; Commdr. Eng. Corps 1963, later Commdr. 2nd Div. (Rear), Ibadan; G.O.C. 3rd Infantry Div. 1969; Commdr. 3rd Marine Commando Div. during Nigerian Civil War, accepted surrender of Biafran forces Jan. 1970; Commdr. Eng. Corps 1970-75; Fed. Commr. for Works and Housing Jan-July 1975; Chief of Staff, Supreme HQ July 1975-Feb. 1976; [illegible] Supreme Mil. Council July 1975-; promoted from Brig. to Lt.-Gen. Jan. 1976; Head of Fed. Mil. Govt. and C.-in-C. of Armed Forces Feb. 1976-. *Leisure interests:* table tennis, billiards, snooker, squash. *Address:* Supreme Headquarters, Dodan Barracks, Lagos, Nigeria.

OBBINK, Hendrik Willem, D.D.; Netherlands university professor; b. 20 March 1898, Smilde, Drente; s. of Prof. Dr. H. Th. Obbink and J. G. ten Kate; m. J. M. E. Baljon 1923; one s. one d.; ed. Univs. of Utrecht and Groningen; Minister of Dutch Reformed Church 1923-39, serving at Ootmarsum, Geldermalsen, Middelburg and Utrecht; Hon. Lecturer Hebrew and Aramaic Univ. of Utrecht 1932-39, Prof. of History of Religions and Egyptian Language 1939-68; fmr. Pres. Theological Section, Academic Council of the Netherlands; Knight Order of the Netherlands Lion. *Publications:* The Magic Significance of the Name, Especially in Egypt 1925, The Book of Daniel 1932, History of the Ancient Near East 1939 and 1951, Theological Considerations on the Old Testament 1938, Cybele, Isis, Mithras, Oriental Religions in the Roman Empire 1965. *Leisure interests:* little jobs, modern literature. *Address:* Weteringpark 7, Flat 72, Zwolle, Netherlands. *Telephone:* 05200-32767.

OBERHAMMER, Vinzenz; Austrian museum director; b. 23 Nov. 1901, Innsbruck; s. of Josef and Carolina Oberhammer; m. Helene Wasitzky 1934; one d.; ed. Innsbruck Univ.; Asst. Tyrolean Folk Art Inst., Innsbruck 1928; Asst. Innsbruck Inst. of Art History 1929, Lecturer 1936, Prof. 1949, Vienna 1963; Curator Ferdinandeum Museum, Innsbruck 1938; First Dir. and Dir. of Pictures Gallery, Kunsthistorisches Museum, Vienna 1955-66, Exhbns. at Innsbruck 1950, 1954, Vienna 1962 etc. *Publications:* Die Bronzestandbilder des Maximilian Grabmales in der Hofkirche zu Innsbruck 1935, Der Altar von Schloss Tirol 1948, The Vienna Gallery 1964, Das Goldene Dachl [illegible] Innsbruck 1970. *Address:* A-1030 Vienna, Arsenal Obj. 3/16, Austria. *Telephone:* 6580615.

OBERLIN, David W.; American administrator; b. 6 Jan. 1920, Atchison, Kan.; s. of William C. and Dorothy A. Wright Oberlin; m. Alida Elinor Houston 1944; two s. two d.; ed. Navy schools and Univs. of Mich. and Kansas; Asst. Sec. and Fiscal Officer, Toledo-Lucas County Port Authority 1956-67; Port Dir., Seaway Port Authority of Duluth 1967-69; Admin. St. Lawrence Seaway Devt. Corpn. June 1969-; acting Dir. Office Deepwater Ports, Office Sec. of Transport 1975-76; fmr. Dir. American Assn. of Port Authorities and Int. Assn. of Port Authorities; [illegible] Defence Exec. Reserve, Upper Midwest Regional Export Expansion Council, Water Transportation Sub-Cttee. for Upper Great Lakes Regional Comm.; Dept. of Transportation Commr. Great Lakes Basin Comm.; U.S. Commr. Perm. Int. Assn. of Navigation Congresses (American Section); Silver Star Medal; Dept. of Transportation's Outstanding Achievement Award with Gold Medal. *Leisure interests:* golf, boating. *Address:* 800 Independence Avenue, S.W., Room 814, Washington, D.C. 20591 (Office); 6401 Cavalier Corridor, Falls Church, Va. 22044, U.S.A. (Home). *Telephone:* 202-426-3574 (Office).

OBERON, Merle (Estelle Merle O'Brien Thompson); actress; b. 19 Feb. 1911, Tasmania; m. 1st. Sir Alexander Korda 1939 (divorced 1945); m. 2nd Lucien Ballard 1942 (divorced 1948); m. 3rd Bruno Pagliai 1957 (divorced 1973); m. 4th Robert Wolders 1975; [illegible] s. [illegible] d.; *Films include:* Service For Ladies 1932, Ebb Tide 1932, Wedding Rehearsal 1932, The Private Life of Henry VIII 1933, The Battle 1934, The Broken Melody 1934, The Private Life of Don Juan 1934, The Scarlet Pimpernel 1934, Folies Bergere 1935, The Dark Angel 1935, Over the Moon 1937, The Divorce of Lady X 1938, Wuthering Heights 1939, The Lion Has Wings, 1940, Till We Meet Again 1940, That Uncertain Feeling 1941, Lydia 1941, Stage Door Canteen 1943, First Comes Courage 1943, The Lodger 1944, A Song to Remember 1945, A Night in Paradise 1946, Temptation 1946, Night Song 1947, Berlin Express 1948, Pardon My French 1951, All Is Possible in Granada 1954, Désirée 1954, Of Love and Desire 1963, The Oscar 1966, Hotel 1967, Interval 1973;

TV appearances include Assignment Foreign Legion 1956. *Address:* c/o Allans-Ingersoll, 1901 Avenue of the Stars, Los Angeles, Calif. 90067, U.S.A.

OBLIGADO NAZAR, Alberto; Argentine international official; b. 30 Sept. 1919, Buenos Aires; s. of Carlos Obligado; m. Susana O. de Obligado 1942; one s. nine d.; ed. Faculty of Law and Social Sciences, Univ. de Buenos Aires; Sec. Univ. de Buenos Aires 1944; Dir., Dept. of Western Culture, Inst. of Higher Culture, Buenos Aires 1948-70; Prof. of History of Culture, Argentine Inst. of Hispanic Culture, Buenos Aires 1965-70; Sec. of Culture and Social Action, Buenos Aires Town Hall 1968-70; Chair. Int. Congress on Scientific, Cultural and Econ. Ibero-American Devt. 1968-70; Dir. Devt. of Latin America 1968-76; Asst. Dir.-Gen. for Communication UNESCO 1970-75; Gran Cruz Alfonso El Sabio (Spain). *Publications:* include Historia de la Cultura (3 vols.), Cuatro Romances, La Antropología de Teilhard de Chardin, Dante ■ Nietzsche, El limbo en la Divina Comedia, La Ciudad y su Cultura. *Address:* B.P. 298, Cédex 75766, 75016 Paris, France; Córdoba 1367, Buenos Aires, Argentina. *Telephone:* 42-77-75, 44-66-74.

OBOTE, Dr. (Apollo) Milton; Ugandan politician; b. 1924; Labourer, clerk, salesman, Kenya 1950-55; founder-mem. Kenya African Union; mem. Uganda Nat. Congress 1952-60; mem. Uganda Legis. Council 1957-71; formed and mem. of Uganda People's Congress 1960-71; Leader of the Opposition 1961-62; Prime Minister 1962-66; Minister of Defence and Foreign Affairs 1963-65; assumed full powers of Govt. Feb. 1966; Pres. of Uganda 1966-71 (deposed by mil. coup); now living in Tanzania.

O'BOYLE, H. E. Cardinal Patrick A.; American ecclesiastic; b. 1896, Scranton, Pa.; s. of Michael O'Boyle and Mary Muldoon; Ordained Priest 1921; Archbishop of Washington 1948-73, created Cardinal by Pope Paul VI 1967; retd. 1973. *Address:* 4110 Warren Street, N.W., Washington, D.C. 20016, U.S.A.

OBRAZTSOV, Sergey Vladimirovich; Soviet puppet theatre artist; b. 5 July 1901, Moscow; s. of Vladimir and Anna Obraztsov; m. Olga Aleksandrovna 1931; ■■■ s. one d.; trained ■■ ■■ artist; acted in Music Studies Co., Moscow Arts Theatre 1922-30; started puppet variety theatre 1923, Head, Central Puppet Theatre 1931–; numerous tours abroad; Vice-Pres. Union Int. des Marionnettistes (U.N.I.M.A.) 1957-, Pres. Soviet Section 1958-; State Prize 1946, Stanislavsky State Prize 1967; People's Artist of U.S.S.R., Orders of Red Banner of Labour 1946, 1961, Hero of Socialist Labour 1971, Order of Lenin (twice), "Hammer and Sickle" Gold Medal; *Principal works include:* Kashtanka (Chekhov) 1935, By the Wish of ■ Fish (Tarakhovsokaya) 1936, Aladdin's Magic Lamp 1940, Night Before Christmas (Gogol) 1941, King Deer (Gozz) 1943, Merry Bear-Cubs (Polivanova) 1945, Mowgli (Kipling) 1945, Unusual Concert 1946, Devil's Mill (Drda) 1953, Divine Comesy (Shtock) 1961, I-go-go (Speransky) 1964, Don Juan 1976. *Publication:* My Profession 1950. *Address:* Central Puppet Theatre, Sadovo Samotechnaya Street 3, Moscow, U.S.S.R. *Telephone:* 299-54-30.

OBREGÓN, Alejandro; Colombian painter; b. 4 June 1920; s. of Pedro and Carmen Obregón; three s. ■■■ d.; ed. Stonyhurst Coll., England, Middlesex School, Concord, and Museum School of Fine Arts, Boston, U.S.A.; Dir. School of Fine Arts, Bogotá 1949-51, Barranquilla 1956-57; one-man exhbns. Bogotá, Barranquilla, Cali, Paris, Milan, Washington, New York, Lima, Madrid, Barcelona, Munich, São Paulo and Rio de Janeiro; numerous prizes include 1st Nat. Prize Guggenheim Int. 1959; Prize at São Paulo Biennial 1967; represented in numerous galleries including: Museum of Modern Art and Guggenheim Museum, New York, Phillips Gallery, Washington, Museo Nacional, Bogotá, Inst. de Arte Contemporáneo, Lima, Museo de Arte Moderno, Bogotá, Museo Nacional, La Paz, Galerie Creuze, Paris, Galerie Buchholz, Munich, The Vatican Museum, Rome, Galeria Profili, Milan and Inst. Cultura Hispánica, Madrid. *Address:* Apartado Aereo 37, Barranquilla, Colombia.

OBREIMOV, Ivan Vasiliyevich; Soviet physicist; b. 8 March 1894, Annecy, France; ed. Petrograd (now Leningrad) Univ.; State Optical Inst. 1919-24; Leningrad Physicotechnical Inst. 1924-29; Ukrainian Physicotechnical Inst. 1924-29, Dir. Ukrainian Physicotechnical Inst. 1929-37; Corresp. ■■■■ U.S.S.R. Acad. of Sciences 1933-58, mem. 1958-; in Inst. of Elementary Organic Compounds, U.S.S.R. Acad. of Sciences 1944-65; at Inst. of Gen. and Inorganic Chemistry 1965-; State Prize 1946, Vavilov Gold Prize; U.S.S.R. Acad. of Sciences 1959. *Publications:* Application of Fresnel Diffraction in Physical and Technical Measurements 1945, Identification of Hydro-Carbons by Dispersion Curves 1955, Double Refraction in Organic Crystals 1957, Formation of Ultramicroscopic Heterogeneity during Plastic Deformation of Rock Salt 1956, On Digital Coding of Scientific Concepts 1961. *Address:* Institute of General and Inorganic Chemistry, Academy of Sciences, 31, Leninsky Prospekt, Moscow, U.S.S.R.

O'BRIEN, Albert James, M.A., LL.B.; American business executive; b. 30 Oct. 1914, St. Louis, Mo.; s. of James Daniel O'Brien and Lydia Helena Dreher; m. Ruth Virginia Foster 1938; three s.; ed. Washington Univ. and Missouri Inst. of Accountancy and Law; Econ. Research and Investment Analysis, First Nat. Bank of St. Louis 1935-42; Special Asst. to Gen. Man. Atlas Powder Co., Weldon Springs, Mo. 1942-44; Personnel Man. Production and Production Staff Man., Production Ralston Purina Co. 1944-57, Sec. 1957-59, Vice-Pres., Sec. and Chief Finance Officer 1959-61, Exec. Vice-Pres. (Chow Marketing & Finance) 1961-64, Exec. Vice-Pres. (Admin.) 1964-68, Pres. 1968-69, Vice-Chair. 1969-71, Dir. 1961-72; Chair. Exec. Cttee. R. Rowland & Co. 1972-74; business man. consultant 1974-; Dir. American Investment Co., St. Louis 1964-; Silver Beaver Award, Boy Scouts of America 1967. *Leisure interests:* tennis, golf, bicycling, stereo music. *Address:* R. Rowland & Co., 720 Olive Street, St. Louis, Mo. 63101 (Office); 30 Rolling Rock Court, St. Louis, Mo. 63124, U.S.A. (Home). *Telephone:* 314-421-5700 (Office); 314-WY4-9126 (Home).

O'BRIEN, Brian, PH.B., PH.D.; American physicist; b. 2 Jan. 1898, Denver, Colo.; s. of Michael Philip O'Brien and Lina Prime O'Brien; ■■ 1st Ethel Dickerman 1922 (deceased), 2nd. Mary Nelson Firth 1956; one s.; ed. Yale Univ., Mass. Inst. of Tech. and Harvard Univ.; Prof. of Physiological Optics, Univ. of Rochester, New York 1930-46, Research Prof. of Physics and Optics 1946-54, Dir. Inst. of Optics 1938-54; Vice-Pres. and Dir. of Research, American Optical Co., Mass. 1953-58; Consulting Physicist and Engineer 1958-; Pres. Optical Soc. of America 1951-53; Chair. Div. of Physical Sciences, Nat. Research Council 1953-61; ■■■■ U.S.A.F. Scientific Advisory Board 1959; Chair. Nat. Acad. of Sciences Advisory Cttee. to Air Force Systems Command 1962-; Chair. Space Program Advisory Council, NASA 1970-73; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences; U.S.A. Presidential Medal for Merit 1948, Frederick Ives Medal, Optical Soc. of America 1951, Sec. of Air Force Exceptional Civilian Service Medal 1969, 1973, Distinguished Public Service Medal, NASA 1972. *Publications:* Approx. 60 scientific papers in physics of upper atmosphere, physical optics of metals, solar spectrum, silver halide emulsion reactions, photographic reciprocity, photographic photometry, reactions of the retina, resolution of the retina, binocular flicker phenomena, iris pulsations, etc. *Leisure interests:* fly fishing, deep ■■■ fishing. *Address:* Box 52, North Woodstock, Conn. 06257, U.S.A. *Telephone:* 203-928-7295.

O'BRIEN, Conor Cruise, PH.D.; Irish writer and diplomatist; b. 3 Nov. 1917, Dublin; s. of Francis Cruise O'Brien and Katherine Sheeky; m. 1st Christine H. Foster 1939 (dissolved 1962), ■■■ s. two d.; m. 2nd Maire MacEntee 1962, ■■■ s. ■■■ d. (both adopted); ed. Trinity Coll., Dublin; entered Dept. of External Affairs of Ireland 1944, Counsellor, Paris 1955-56, Head UN Section and mem. Irish Del. to UN 1956-1960, Asst. Sec.-Gen., Dept. of External Affairs of Ireland 1960; Rep. of Sec.-Gen. of UN in Katanga, Congo (now Shaba, Zaire) May-Dec. 1961; Vice-Chancellor, Univ. of Ghana 1962-65; Regent's Prof. and Holder of Albert Schweitzer Chair in Humanities, New York Univ. 1965-69; mem. Dáil Eireann, Dublin (Labour) 1969-77; Minister for Posts and Telegraphs 1973-77; resigned from Labour Party; Senator for Dublin Univ. 1977-79; Editor-in-Chief The Observer, London 1978-; Pro-Chancellor Univ. of Dublin 1973-; Fellow, St. Catherines Coll., Oxford 1978; Hon. D.Litt. (Bradford) 1971, (Ghana) 1974, (Edinburgh) 1976, (Nice) 1978. *Publications:* Maria Cross (under pseudonym Donat O'Donnell) 1952, Parnell and his Party 1957, The Shaping of Modern Ireland (ed.) 1959, To Katanga and Back 1962, Conflicting Concepts of the United Nations 1964, Writers and Politics 1965, The United Nations: Sacred Drama 1967, Murderous Angels (play) 1968, Power and Consciousness (ed.) 1969, Conor Cruise O'Brien Introduces Ireland 1969, Edmund Burke's Reflections on the Revolution in France (ed.) 1969, Camus 1969, A Concise History of Ireland (with Máire Cruise O'Brien) 1972, The Suspecting Glance 1972, States of Ireland 1972, Herod's Reflections on Political Violence 1978. *Leisure interest:* travelling. *Address:* Whitewater, The Summit, Howth. Dublin, Ireland. *Telephone:* Dublin 322474.

O'BRIEN, Edna; Irish author; b. 15 Dec. 1936, Co. Clare; d. of Michael O'Brien and Lena Cleary; m. 1954 (divorced 1964); two s.; ed. convents, Pharmaceutical Coll. of Ireland; engaged in writing from ■■ early age; Yorkshire Post Novel Award 1971, Kingsley Amis Award. *Publications:* The Country Girls 1960, The Lonely Girl 1962, Girls in Their Married Bliss 1963, August is ■ Wicked Month 1964, Casualties of Peace 1966, The Love Object 1968, A Pagan Place 1970 (play 1971), Night 1972, A Scandalous Woman (short stories) 1974, Mother Ireland 1976, Johnny I Hardly Knew You (novel) 1977, Arabian Days 1977, Mrs. Reinhardt and other stories 1978. *Leisure interest:* dancing. *Address:* c/o A. M. Heath, 40/42 William IV Street, London, W.C.2, England.

O'BRIEN, Lawrence Francis, LL.B.; American government official; b. 7 July 1917, Springfield, Mass.; s. of Lawrence O'Brien Sr. and Myra Sweeny; m. Elva Lena Brassard 1944; one s.; ed. Cathedral Grade and High Schools, Springfield, Mass., Northeastern Univ.; U.S. Army 1943-45; O'Brien Realty Co. (family business), Springfield, Mass. 1942-52; Board Pres. and Business Man. Western Mass. Hotel and Restaurant Health Fund 1952-58; State Dir. of Org. for campaigns of John F. Kennedy for Senate of U.S., Mass. 1952, 1958; Public Relations work, Springfield 1958-60; Nat. Dir. of Org. for Dem. Nat. Cttee. and for Kennedy-Johnson campaign 1960; Special Asst. to Pres. of U.S. for Congressional Relations 1961-65; Postmaster-Gen. 1965-68; Dem. Party Campaign Man. for Presidential Election 1968; Chair Dem. Nat. Cttee. 1968-69, 1970-72; Chair. Dem. Nat. Convention and Chair. McGovern Presidential Campaign 1972; Pres. McDonnell & Co. (New York investment banking firm) 1969; Man. Consultant, Washington D.C. 1973-75; Commr. Nat Basketball Assn., New York 1975-; Hon. LL.D. (Western New England Coll.) 1962, (Villanova) 1967, (Xavier) 1971; Hon. L.H.D. (St. Anslem's Coll.) 1966, (American Int. and Wheeling Colls.) 1971; Hon.D. Public Admin. (Northeastern Univ.) 1965, Hon.D. Public Affairs (Seton Hall) 1967. *Leisure interests:* theatre, books. *Publications:* The O'Brien Campaign Manual, No Final Victories 1974. *Address:* 860 United Nations Plaza, New York, New York 10017, U.S.A.

O'BRIEN, (Michael) Vincent; Irish racehorse trainer; b. 9 April 1917, Cork; s. of Daniel P. O'Brien and Kathleen (née Toomey); m. Jacqueline Wittenoom 1951; two s. three d.; ed. Mungret Coll., Limerick; started training in Co. Cork 1944, moved to Co. Tipperary 1951; won all principal English and Irish steeplechases, including 3 consecutive Grand Nationals, Gold Cups and Champion Hurdles; has concentrated on flat racing 1959-; trained winners of 12 English classics, including 5 Derbys; trained Nijinsky, first Triple Crown winner since 1935, also winners of 4 Irish Derbys, 3 Prix de l'Arc de Triomphe, King George VI and Queen Elizabeth Diamond Stakes, Washington Int., etc. *Leisure interests:* golf, shooting, fishing. *Address:* Ballydoyle House, Cashel, Co. Tipperary, Ireland. *Telephone:* (062) 61222.

O'BRIEN, Terence John, C.M.G., M.C., M.A.; British diplomatist; b. 13 Oct. 1921, Ranchi, India; s. of Joseph O'Brien; m. 1st Phyllis Mitchell 1950 (died 1952), 2nd Rita Reynolds 1953; one s. two. d.; ed. Gresham's School, Holt, Merton Coll., Oxford; Ayrshire Yeomanry, later Air Liaison Office with 83 Group R.A.F. 1942-45; Dominions Office 1947, Commonwealth Relations Office (CRO) 1947-49, 1952-54; Second Sec., British High Comm., Ceylon (now Sri Lanka) 1949-52; Principal, Treasury 1954-56; First Sec. (Financial), High Comm., Canberra 1956-58; Planning Officer, CRO 1958-60; First Sec. Kuala Lumpur 1960-62; Sec. to Inter-Governmental Cttee., Jesselton, North Borneo (now Kota Kinabalu, Sabah, Malaysia) 1962-63; Head of Chancery, New Delhi 1963-66; Imp. Defence Coll. 1967; Counsellor, Foreign Office, FCO 1968-70; Amb. to Nepal 1970-74, to Burma 1974-78, to Indonesia April 1978-. *Address:* British Embassy, Jalan Imam, Bonjal I, Jakarta, Indonesia (Office); Beaufort House, Woodcutts, Salisbury, Wiltshire, England (Home). *Telephone:* (07255) 234 (Home).

O'BRIEN, Vincent (see O'Brien, Michael Vincent).

O'BRIEN OF LOTHBURY, Baron (Life Peer) cr. 1973; **Leslie Kenneth O'Brien,** G.B.E., P.C.; British banker; b. 8 Feb. 1908, London; s. of Charles John Grimes O'Brien and Carrie Abbott; m. Isabelle Gertrude Pickett 1932; one s.; entered Bank of England 1927, apptd. Deputy Chief Cashier 1951, Chief Cashier 1955-62, Dir. 1962-64, Deputy Gov. 1964-66, Gov. 1966-73; Pres. British Bankers' Assn. 1973-; Dir. Prudential Assurance Co. Ltd. 1973-, Rank Org. 1974-78; Consultant to J. P. Morgan and Co. 1973-; Chair. Int. Advisory Council, Morgan Guaranty Trust Co. 1974-78, Advisory Board Unilever 1973-78, Advisory Council, Morgan Grenfell Co. Ltd. 1974-; Dir. Bank for Int. Settlements 1974-; Dir. Saudi Int. Bank; Hon. Fellow and Vice-Pres. Inst. of Bankers; Hon. D.Sc. (City Univ.); Hon. LL.D. (Univ. of Wales). *Address:* 33 Lombard Street, London, EC3P 3BH, England. *Telephone:* 01-283 8888.

OBUKHOV, Aleksandr Mikhailovich, D.SC.; Soviet physicist; b. 5 May 1918, Saratov; ed. Moscow State Univ.; Research Assoc., Geophysical Inst., U.S.S.R. Acad of Sciences 1940-56; Dir. Inst. of Atmospheric Physics 1956-; Lecturer, Moscow State Univ. 1946-49, Prof. 1949-; corresp. mem. U.S.S.R. Acad. of Sciences 1953-70, Academician 1970-; various decorations. *Address:* Institute of Atmospheric Physics, 3 Pyzhevsky pereulok, Moscow, U.S.S.R.

O'BYRNE, Justin; Australian politician; b. 1 June 1912, Launceston, Tasmania; s. of Patrick A. O'Byrne and Mary Elizabeth Madden; m. Gisele Anne Crossle 1961; one s. two d.; ed. St. Patrick's Coll., Launceston; engaged in pastoral industry, S.W. Queensland 1930-39; R.A.A.F. Empire Training Scheme 1940; Pilot Officer with R.A.A.F. Squadron in England 1941-46, prisoner of war 1941-44; mem. Senate 1946-, Pres. 1974-76; Opposition Whip 1962-72; Govt. Whip 1973-74; mem., Treas. Fed. Exec. Australian Labor Party; Del. to UN Gen. Ass. 1971. *Leisure interests:* reading, gardening, horse riding. *Address:* The Senate, Canberra, A.C.T.; 11 Ramsay Street, Launceston, Tasmania, Australia (Home). *Telephone:* 31-1108 (Home).

OBZINA, Jaromír, PH.D., C.SC.; Czechoslovak politician; b. 28 May 1929, Brodek; s. of late František Obzina and Žofie Obzinová; m. Světla Obzinová; one s. one d.; ed. Přerov Secondary School, Central Cttee. of the CPSU Higher Educ. Coll., Moscow; Sec. Chrudim District Cttee., CP of Czechoslovakia, First Sec. Polička and Pardubice District Cttee., Instructor Pardubice Regional Cttee.; held positions on Main Political Board of Czechoslovak People's Army 1953-56; Commdr. Antonín Zápotocký Mil. Acad. Political Dept. 1956-64; Head of Division for Science, CP Central Cttee. Dept. of Educ. and Science 1965-68; Deputy Commdr., Czechoslovak People's Army Inst. for Scientific Affairs 1968-69; Head of Division for Science, Deputy Head (later Head) Dept. of Educ., Science and Culture 1969-; Minister of Interior, mem. House of the People of Fed. Nat. Ass., mem. CP Central Cttee. March 1973-; many decorations incl. Medal For Outstanding Work, Medal for Distinction in Construction, Medal for Service in Favour of the Country, Medal for Distinction in Defence of the Country. *Publications:* several scientific books and a number of articles. *Leisure interest:* sports. *Address:* Ministry of the Interior of the Czechoslovak Socialist Republic, 85 Obránců Míru, Prague 7, Czechoslovakia (Office). *Telephone:* Prague 3801.

O'CALLAGHAN, (Donal N.) Mike; American state governor; b. 10 Sept. 1929, La Crosse, Wis.; s. of Neil T. and Olive Berry O'Callaghan; m. Carolyn Randall; three s. two d.; ed. Cotter High School, Winona, Minn., Univs. of Idaho and Nevada, Colorado State and Georgetown Univs. and Claremont Graduate School; High School teacher 1956-61; Chief Probation Officer and Dir. of Court Services, Clark County, Nev. 1961-63; State Dir. of Health and Welfare 1963-64; Project Man. Dir., Job Corps Conservation Centres, Washington, D.C. 1964-66; Regional Dir. Office of Emergency Planning (OEP), San Francisco 1967-69; Gov. of Nevada 1971-79; Democrat. *Leisure interests:* falconry, hiking, camping. *Address:* c/o Office of the Governor, State Capitol, Carson City, Nevada, U.S.A.

OCCHIALINI, Giuseppe Paolo Stanislao; Italian physicist; b. 5 Dec. 1907, Fossombrone, Urbino; s. of Augusto Occhialini and Etra (née Grossi); m. Constance Dilworth 1950; one d.; ed. Univ. of Florence; Asst. in Physics, Univ. of Florence 1932-37; research in Cavendish Lab., Cambridge Univ. 1931-34, São Paulo Univ. 1937-44, Wills Lab., Bristol Univ. 1945-47; Assoc. Prof. Univ. of Brussels 1948; Prof. Univ. of Genoa 1950-52, Univ. of Milan 1952-; Visiting Prof. M.I.T. 1960; Foreign mem. American Philosophical Soc., Royal Soc.; mem. Acad. Naz. dei Quaranta, Rome, Acad. delle Scienze, Turin, Lombardo Acad. di Scienze e Lettere, Milan, Acad. Naz. dei Lincei, Rome, Heidelberger Akad. der Wissenschaften, Acad. Ligure di Scienze e Lettere, Genoa, Academia Brasileira de Ciências; Dr. h.c. (Brussels, Bristol); Vallauri Prize, Einaudi Prize 1949, Feltrinelli Int. Prize 1955. *Publications:* on cosmic rays, high energy physics and space research. *Address:* Viale Argonne 42, 20133 Milan, Italy.

OCCHIUTO, Antonino, B.ECON. AND DIPL.; Italian central banker; b. 21 Dec. 1912, Naples; s. of late Stefano Occhiuto and Margherita Ruggiero; m. Valeria Marcucci 1952; one s. two d.; ed. Univ. of Naples; Head of Gen. Secr., Banca d'Italia 1961-64, Head of Personnel Dept 1965-67, Gen. Insp. 1967-69, Deputy Dir.-Gen. 1969-76, Hon. Dir.-Gen. Banca d'Italia 1976-; mem. Board of Dirs., BIS 1975-; Chair. Luigi Einaudi Inst. for Monetary, Banking and Financial Studies 1976-; Pres. dell'Istituto Italiano di Credito Fondiario; Grande Officiale dell'Ordine al Merito della Repubblica Italiana. *Address:* Istituto di Credito Fondiario, via Piacenze 6, 00184 Rome, Italy. *Telephone:* 4987/131.

OCHAB, Edward; Polish politician; b. 16 Aug. 1906, Cracow; ed. Cracow School of Commerce and Jagiellonian Univ.; joined Polish CP 1929; frequently imprisoned; co-organizer of Union of Polish Patriots and Polish Army in the U.S.S.R. 1942-45; Minister of Public Admin. 1944-45; Deputy to Seym 1947-69; Chair. Cen. Council of Trade Unions 1948-49; Vice-Minister of Nat. Defence 1949-50; Sec. Cen. Cttee. PUWP 1950-56, 1959-64, mem. Politburo 1954-68, First Sec. Cen. Cttee. 1956; Minister of Agriculture 1957-59; Vice-Pres. Council of State 1961-64, Pres. (Head of State) 1964-68; Chair. All-Polish Cttee. of Nat. Unity Front 1965-68; retd.; numerous decorations.

OCHIAI, Eiichi, B.SC.; Japanese trade unionist; b. 15 Feb. 1916, Kuzumaki-Machi; s. of the late Eisaburo Ochiai and Mitori Ochiai; m. Eiko Ochiai 1945; one s. one d.; ed. Yokohama Nat. Univ.; Mitsui Metal Mine Co. Ltd. 1936-41, Toshiba Electric Co. 1943-46; Adviser, Japan Assen. of Science and Tech. 1944-47; Pres. All-Japan Electric Industry Workers Unions 1946-48; mem. Exec. Board Congress of Industrial Labour Union 1946-49; mem. Exec. Board Japan Socialist Party 1948-49; Gen. Sec. Nat. Fed. of Industrial Orgs. 1949-64; mem. Labour Problems Cttee. 1961-64, Small and Medium Enterprise Retirement Counter-measure Cttee. 1960-64; Dir. Tokyo Office, Int. Confed. of Free Trade Unions (ICFTU) and Special Rep. in Japan 1964-77; Trustee, Japan ILO Assen. 1962-. *Publications:* Import of Foreign Capital and Production Struggle 1949, Directory of Trade Union Administration 1949, Earth of North America and Blood of Great Britain 1959. *Leisure interests:* horse riding, rugby. *Address:* Keyakidai 38-302, Nishimachi-4, Kokubumji-shi, Tokyo 185, Japan. *Telephone:* 0425-36-8306.

OCHOA, Severo, M.D.; Spanish-born American biochemist; b. 24 Sept. 1905, Luarca, Spain; ed. Madrid, Glasgow, Berlin, Heidelberg and London Univs.; Lecturer Univs. of Madrid, Heidelberg, Plymouth and Oxford 1931-41; Instructor and Research Assoc. Washington Univ. St. Louis 1941-42; Research Assoc. New York Univ. 1942, Chair. Dept. of Biochemistry 1954-75; with Roche Inst. of Molecular Biology 1975-; U.S. citizen 1956-; Visiting Prof. Univ. of Calif. 1949, Univ. of Brazil 1956; Foreign mem. Royal Soc. (U.K.) 1965, Indian Nat. Science Acad., Acad. of Sciences of D.D.R.; Nobel Prize in Medicine (with Kornberg) 1959; Pres. Int. Union of Biochemistry 1961-67; mem. U.S. Nat. Acad. of Sciences, Acad. of Arts and Sciences, American Philosophical Soc., U.S.S.R. Acad. of Sciences, Polish Acad. of Sciences, Brazilian Acad. of Sciences, Pontifical Acad. of Sciences 1974, and many other academies; numerous hon. degrees and decorations. *Address:* Roche Institute of Molecular Biology, Nutley, N.J. 07110, U.S.A.

OCHSNER, Alton, M.D.; American surgeon; b. 4 May 1896, Kimball, S. Dak.; m. 1st Isabel Lockwood 1923 (died 1968), three s. one d.; m. 2nd Jane Kellogg Sturdy 1970; ed. Univ. of S. Dakota and Washington Univ., St. Louis, Missouri; Exchange Surgical Resident Zürich, Switzerland 1922-23, Frankfurt, Germany 1923-24; Instructor in Surgery and Surgical Pathology, Northwestern Univ., Chicago, Ill. 1925-26; Asst. Prof. of Surgery, Univ. of Wis. Medical School and State Gen. Hosp., Madison, Wis. 1926-27; Prof. Tulane Univ. School of Medicine, New Orleans, La. 1927-61, Chair. Dept. of Surgery 1927-56; Chief of Tulane Surgical Service to Charity Hosp., New Orleans 1927-56, Senior Visiting Surgeon 1927-61, now Consulting Surgeon; Dir. of Surgery, Ochsner Clinic and Ochsner Foundation Hosp., New Orleans 1942-66, now Senior Consultant; Pres. Alton Ochsner Medical Foundation, New Orleans 1944-70, now Emer. Pres.; Pres. American Cancer Soc. 1949-50, American Coll. of Surgeons 1951-52, Int. Soc. of Surgery 1962-63 (Chair U.S. Nat. Cttee. 1951-67); several consultative posts; mem. and Hon. Fellow, many medical socs. and colls.; mem. several boards of dirs.; Co-Ed. Int. Surgical Digest and other editorial positions; Dr. h.c., six American and three foreign univs. *Publications:* Varicose Veins 1938, Smoking and Cancer: a Doctor's Report 1954, Smoking and Health 1959, Smoking and Your Life 1964, Smoking: Your Choice between Life and Death 1970; co-author Christopher's Minor Surgery 1955, 1959; 24 sections in medical books; over 500 articles. *Address:* Ochsner Clinic, 1514 Jefferson Highway, New Orleans, La. 70121, U.S.A. *Telephone:* (504) 834-7070.

O'CONNELL, Martin Patrick, PH.D., M.P.; Canadian politician; b. 1 Aug. 1916, Victoria, B.C.; s. of James and Mary (née Kyle) O'Connell; m. Helen Alice Dionne 1945; one s. one d.; Lecturer in Political Economy, Univ. of Toronto 1948-56; mem. of investment firm 1958-68; mem. House of Commons 1968-79, Parl. Sec. of Minister of Regional Econ. Expansion 1969, Minister of State 1971, Minister of Labour 1972; Principal Sec. to Prime Minister 1972-74; Minister of Labour 1978-79. *Address:* 29 Guildcrest Drive, Scarborough, Ont. M1E 1E2, Canada.

O'CONNOR, Mgr. Martin John, A.B., S.T.D., J.C.D.; American ecclesiastic; b. 18 May 1900, Scranton, Pa.; s. of the late Martin John O'Connor and Belinda Caffrey; ed. St. Thomas Coll., Scranton (now Univ. of Scranton), Pa., North American Coll., and Pontifical Urban Univ., Rome; served in U.S. Army 1918; ordained priest 1924; Asst. Pastor Scranton Cathedral 1925-27, Sec. to Bishop and Chancellor of the Diocese 1929-35; Diocesan Consultor 1932-46, Pastor 1934-43, Officialis 1937-46, Vicar-Gen. 1938-46; Titular Bishop of Thespiae and Auxiliary Bishop of Scranton 1943; Pastor, St. Mary's Church, Wilkes Barre, Pa. 1943; Rector, North American Coll., Rome 1946-65; Pres. Pontifical Comm. for Motion Pictures 1954, Cttee. for Press Relations for Vatican Council 1963-, Pontifical Comm. for Communications Media 1964-71; Pres. emer., Pontifical Comm. for Social Communications 1971; mem. Int. Holy Year Cttee. 1950, Central Marian Year Cttee. 1956, Int. Marian Acad. 1958; Asst. Pontifical Throne 1953-; Titular Archbishop of Laodicea in Syria 1959-; Consultor, Sacred Congregation for Seminaries and Universities 1954-67, Consultor, Sacred Propaganda Fide 1960-65; Apostolic Nuncio to Malta 1965-69; Vice-Pres. Post Conciliar Comm. for Apostolate of the Laity 1966-69; Consultor, Pontifical Comm. for Latin America 1970-71; Chaplain in gremio religionis of the Sovereign Order of Malta 1947, Kt. Commdr. with Star. Knights of the Holy Sepulchre 1951, Grand Officer, Italian Order of Merit 1957. *Address:* Palazzo San Carlo, Vatican City and Via di Porta Angelica 63, 00193 Rome, Italy. *Telephone:* 698-3-597, 698-3-517 (Office); 656-8-970 (Home).

ODA, Shigeru, LL.D.; Japanese lawyer; b. 22 Oct. 1924; s. of Toshio and Mioko Oda; m. Noriko Sugimura 1950; one s. one d.; ed. Univ. of Tokyo, Yale Univ.; Research Fellow, Univ. of Tokyo 1947-49; Lecturer Univ. of Tôhoku 1950-53, Asst. Prof. 1953-59, Prof. 1959-76; Tech. Adviser, Atomic Energy Comm. 1961-64; Special Asst. to Minister of Foreign Affairs 1973-76; mem. Science Council of Ministry of Educ. 1969-76, of Council for Ocean Devt. in Prime Minister's Office 1971-76, Advisory Cttee. for Co-operation with UN Univ. 1971-76; Judge, Int. Court of Justice Feb. 1976-; del. to UN Confs. on Law of the Sea 1958, 1960, 1973-75; Rep. at 6th Gen. Conf. of Inter-Governmental Oceanographic Comm. 1969; consultative positions with bodies concerned with marine questions; Counsel for Fed. Repub. of Germany before Int. Court of Justice 1968; Editor-in-Chief, Japanese Annual of International Law 1973-77. *Publications:* in Japanese: International Law of the Sea 1956-69, International Law and Maritime Resources 1971-75; in English: International Control of Sea Resources 1962, The International Law of Ocean Development 1972-79, The Law of the Sea in Our Times (2 vols.) 1977; various articles. *Address:* International Court of Justice, Peace Palace, The Hague 2102, The Netherlands (Office); 11-1002 Kawauchi-jutaku, Kawauchi, Sendai 980, Japan (Home). *Telephone:* 070-92.44.41 (Office); 0222-64.30.68 (Home).

ODDI, H. E. Cardinal Silvio; Italian ecclesiastic; b. 14 Nov. 1910, Morfasso; ordained 1933; Titular Archbishop of Mesembria 1953; Apostolic Del. in Palestine, Jerusalem and Cyprus 1953-56; Apostolic Internuncio in Egypt and U.A.R. 1956-62; Apostolic Nuncio in Belgium and Luxembourg 1962-69; cr. Cardinal March 1969; Pres. of the Pontifical Comm. for the Sanctuaries of Loreto and Pompei; Pontifical Del. for the Basilica of Assisi. *Address:* Via Pompeo Magno 21, 00192 Rome, Italy. *Telephone:* 3568957.

ODEGAARD, Charles (Edwin), PH.D.; American university professor; b. 10 Jan. 1911, Chicago Heights, Ill.; s. of Charles A. and Mary C. Odegaard; m. Elizabeth Ketchum 1941; one d.; ed. Dartmouth Coll., and Harvard Univ.; Travelling Fellowship for study in France 1934-35; Asst. in History, Radcliffe Coll. 1935-37; Instructor to Prof. in History, Univ. of Ill. 1937-48, Asst. for Humanities to Dean of Graduate Coll. 1948; Exec. Dir. American Council of Learned Socs. 1948-52; Prof. of History, Dean of Coll. of Literature, Science and Arts, Univ. of Mich. 1952-58; Pres. Univ. of Washington, Seattle 1958-74, Prof. Higher Educ. 1974-; mem. U.S. Nat. Comm. UNESCO 1949-55; Pres. Int. Council of Phil. and Humanistic Studies 1959-65; U.S. Naval Reserve 1942-46; mem. American Council on Educ. (fmr. Chair.), American Historical Assen. *Publications:* Fideles and Vassi in the Carolingian Empire 1945, Minorities in Medicine 1977. *Leisure interest:* gardening. *Address:* College of Education, University of Washington, Seattle, Wash. 98195, U.S.A. *Telephone:* (206) 543-5390.

ODELOLA, Amos Oyetunji, M.A.; Nigerian economist; b. 4 March 1927, Modakeke, Ife; s. of the late Mr. and Mrs. J. Odelola; m. Bola Odeloye 1953; one s. three d.; ed. Oduduwa Coll., Ife, Univ. of Hull, England, and Yale Univ., U.S.A.; Agricultural Asst., Dept. of Agriculture, Nigeria, then Statistical Asst., Dept. of Statistics; then Admin. Officer, W. Nigerian Govt.; Special Asst. to Sec.-Gen., Comm. for Tech. Co-operation in Africa (CCTA) 1963-64, Acting Sec.-Gen. 1964-65; Exec. Sec. Scientific, Tech. and Research Comm. of OAU (successor to CCTA) 1965-. *Leisure interests:* lawn tennis, table tennis, numismatology. *Address:* Scientific, Technical and Research Commission of Organization for African Unity, 4th Floor, Nigerian Ports Authority Buildings, P.M.B. 2359, Lagos, Nigeria. *Telephone:* 633289, 633430, 633359.

ODERO-JOWI, Joseph; Kenyan diplomatist; b. 15 Aug. 1929, S. Nyanza, Kenya; m.; ed. Delhi School of Econs., Univ. of Delhi; worked in Secrs. of UN ECA, Addis Ababa and ECOSOC, New York 1960; Lecturer African Labour Coll., Kampala, Uganda; mem. Kenya House of Reps. 1963; Asst. Minister of Labour 1963, of Finance 1966; Minister for East African Community in charge of

Admin. and Finance; Exec. Dir. EMCO Steel Works, Kenya Ltd. and other Madhvani Groups in Kenya; Perm. Rep. to UN 1970-74. *Address:* c/o Ministry of Foreign Affairs, Nairobi, Kenya.

ODINGA, A. Oginga; Kenyan politician; b. 1911; ed. Alliance High School, Kikuyu, and Makerere Coll.; fmr. teacher; mem. Central Nyanza African District Council, Sakwa Location Advisory Council 1947-49; mem. Legis. Council 1957-; Vice-Pres. Kenya African Nat. Union (KANU) 1960-66, founded Kenya People's Union 1966 (party banned Oct. 1969); Minister for Home Affairs 1963-64; Vice-Pres. of Kenya 1964-66; arrested Oct. 1969, released March 1971; rejoined KANU Sept. 1971; arrested, then released Dec. 1977. *Publications:* Not Yet Uhuru 1967. *Address:* c/o KANU, P.O. Box 12394, Nairobi, Kenya.

O'DONOGHUE, Philip; Irish lawyer; b. 15 Oct. 1896, Macroom, Co. Cork; s. of Patrick O'Donoghue and Julia MacCarthy; m. Una Ryan 1922; two s. two d.; ed. Castlenock Coll. and Nat. Univ. of Ireland; called to the Bar 1919; Senior Counsel 1939; Justice District Court 1922-29; Legal Asst. to Attorney Gen. 1929-59; mem. European Comm. of Human Rights 1965-71; mem. Irish Comm. on Status of Women 1970-; Judge, European Court of Human Rights 1971-; Commr. of Charitable Donations and Bequests for Ireland. *Address:* 49 Farmhill Drive, Goatstown, Dublin 14, Ireland. *Telephone:* Dublin 983584.

O'DRISCOLL, Timothy Joseph, B.A.; Irish tourist official; b. 6 July 1908, Cork; s. of Michael O'Driscoll and Mary Hélena Walshe; m. Elizabeth McKay 1941; three d.; ed. Presentation Coll., Cork, and Trinity Coll., Dublin; Irish Civil Service 1928-56; Irish Rep. to Int. Civil Aviation Org. 1946-48, OEEC 1948-50; Chair. Irish Export Board 1951-55; Amb. to Netherlands 1955-56; Dir.-Gen. Irish Tourist Board 1956-71; mem. Board Irish Airlines; Pres. Int. Union of Official Tourist Orgs. 1961-63; Exec. Dir. European Travel Comm. 1971-; Consultant on Tourism to UN 1967-68; Chair. OECD Tourism Cttee. 1964-66, Algemene Bank Nederland (Ireland) Ltd.; mem. Exec. Advisory Board Gulf Oil (Ireland); mem. Council of Design; Consultant to Indian Inst. of Public Admin. 1969; Pres. An Taisce Irish Nat. Trust 1969-; Adviser on Tourism to Bahamas, to Jordan, under UNDP to India 1970, to Iran 1971-; Pres. Marketing Inst. of Ireland 1973-; Chair. Systems Devt. Programme TCD; Vice-Chair. Dublin Theatre Festival; Hon. LL.D. (Dublin); First American Soc. of Travel Agents Hall of Fame 1973; Commdr. Order of George I (Greece), Order of Prince Henry the Navigator (Portugal); Royal Danish Tourist Medal. *Leisure interests:* gardening, reading, photography. *Address:* P.O. Box 536, Dublin, 8, Ireland. *Telephone:* Dublin 01-714487 (Office); Dublin 90 6265 (Home).

ODUBER QUIRÓS, Daniel; Costa Rican politician and diplomatist; b. 25 Aug. 1921, San José; s. of Porfirio Oduber and Ana María Quirós; m. Marjorie Elliott Sypher 1950; one s.; ed. Univ. de Costa Rica, McGill Univ., Canada, and Univ. de Paris; Amb. to UN 1949; Head of Public Relations, Partido de Liberación Nacional (PLN) 1951-53, Sec.-Gen. 1956-58, Pres. 1970-77; Minister of Foreign Affairs 1962-64; Head various dels. to UN Gen. Ass.; coordinator at the meeting of Presidents of Central America U.S.A. and Panama 1963: PLN Presidential Cand. 1965; Pres. of Congress 1970-74; Pres. of Costa Rica 1974-78; Grand Cross Order of Malta, Gran Cruz, Orden de Isabel la Católica (Spain), and numerous other foreign decorations. *Leisure interests:* sports, reading, travel. *Address:* c/o Casa Presidencial, San José, Costa Rica.

OË, Kenzaburo: Japanese author; b. 1935; m.; two c.; first stories published 1957; Akutagawa prize for novella The Catch 1958; first full-length novel Pluck The Flowers, Gun The Kids 1958; represented young Japanese writers at Peking 1960; travelled to Russia and Western Europe writing a series of essays on Youth in the West 1961; Shinchosha Literary Prize 1964; Tanizaka Prize 1967. *Publications:* The Catch 1958, Pluck The Flowers, Gun The Kids 1958, Our Age 1959, Screams 1962, The Perverts 1963, Hiroshima Notes 1963, Adventures in Daily Life 1964, A Personal Matter 1964 (English 1969), Football in The First Year of Mannen 1967. *Address:* 585 Seijo-machi, Setagaya-Ku, Tokyo, Japan. *Telephone:* 482-7192.

OELMAN, Robert Schantz, A.B.; American business executive; b. 9 June 1909, Dayton, Ohio; s. of William Walter and Edith (Schantz) Oelman; m. Mary Coolidge 1936; two s. two d.; ed Dartmouth Coll., and Univ. of Vienna; with NCR Corpn., Dayton, Ohio 1933-, Asst. to Pres. 1942-45, Asst. Vice-Pres. 1945-46, Vice-Pres. 1946-50, Exec. Vice-Pres. 1950-57, Pres. 1957, Chair. and Pres. 1962, Chair. 1964-74, Chair. Exec. Cttee. 1974-, Dir. 1948-; Dir. Koppers Co. Inc., Ohio Bell Telephone Co., Procter & Gamble Co., Winters Nat. Bank & Trust Co., Ford Motor Co., etc.; fmr. Pres. and Dir. Nat. Assn. of Mfrs.; fmr. Pres. and Dir. Business Equipment Assn.; fmr. Chair. Board of Trustees, Wright State Univ., Dayton; fmr. Trustee Dartmouth Coll., Nat. Safety Council, N.Y.; Hon. H.H.D. (Dayton), Hon. LL.D. (Miami Univ. and Wright State Univ.), Hon. M.A. (Dartmouth Coll.), Hon. L.H.D. (Wilmington Coll.). *Leisure interests:* reading, music, golf. *Address:* 2846 Upper Bellbrook Road, Bellbrook, Ohio 45305, U.S.A.

OESTREICHER, Rev. Canon Paul, M.A.; British and New Zealand (b. Germany) clergyman and journalist; b. 29 Sept. 1931, Meiningen, Germany; s. of Paul Oestreicher, M.D., and Emma (née Schnaus); m. Lore Feind 1958; two s. two d.; ed. Otago and Victoria Univs., N.Z., Bonn Univ., Fed. Repub. of Germany, Lincoln Theological Coll., U.K.; emigrated to New Zealand with parents 1939; Editor Critic student newspaper, Otago Univ. 1952-53; Humboldt Research Fellow, Bonn Univ. 1955; studied industrial mission (Opel, Gen. Motors), Rüsselsheim 1958-59; ordained in Church of England 1959; freelance journalist and broadcaster in Fed. Repub. of Germany and U.K. 1959-; Curate in Dalston, London 1959-61; Programme Producer, Religious Dept., BBC Radio 1961-64; Assoc. Sec., Dept. of Int. Affairs, British Council of Churches, with special responsibility for East-West relations 1964-69, Hon. Sec. East-West Relations Cttee. 1964-; Vicar, Church of the Ascension, Blackheath, London 1968-; Dir. of Lay Training, Diocese of Southwark 1969-72; mem. Gen. Synod of Church of England 1970-; Chair. U.K. Section, Amnesty Int. 1974-; Founder and Trustee, Christian Inst. (of Southern Africa) Fund 1974-; Hon. Chaplain to Bishop of Southwark 1975-; mem. Council, Keston Coll. 1975-; Hon. Canon of Southwark Cathedral 1978-. *Publications:* Editor: Gollwitzer: The Demands of Freedom (English edn.) 1965, The Christian Marxist Dialogue 1969, (with J. Klugmann) What Kind of Revolution 1969; trans. Schulz: Conversion to the World 1967; contributor to British Council of Churches working party reports on Eastern Europe and Southern Africa. *Leisure interests:* horse riding, sauna bathing, stamp collecting, Mozart. *Address:* 40 Dartmouth Row, London, SE10 8AP, England. *Telephone:* 01-692 4051.

OETKER, Rudolph-August; German industrialist and shipowner; b. 20 Sept. 1916; ed. Univs. of Hamburg and Vienna; Owner Dr. August Oetker, Bielefeld, Brenner's Parkhotel, Baden-Baden, Reese-Gesellschaft, Hameln, Hamburg-Südamerikanische Dampfschiffahrts- Gessellschaft Eggert & Amsinck, Hamburg, Rudolf A. Oetker, Hamburg, Max Jordan Bauunternehmung, Ettlingen; holder of controlling interest of Bankhaus Hermann Lampe KG, Bielefeld, Dibona Markenvertrieb KG, Ettlingen, Söhnlein Rheingold KG, Wiesbaden, Chemische Fabrik Budenheim, Rudolf A. Oetker, Budenheim, Noris Weinbrennereien KG, Nürnberg; numerous other business interests. *Address:* Lutterstrasse 14, 4800 Bielefeld 1, Federal Republic of Germany. *Telephone:* 0521/1551.

O'FAOLÁIN, Seán, M.A., A.M., D.LITT.; Irish writer; b. 1900; s. of Denis Whelan; m. Eileen Gould 1928; one s. one d.; ed. Nat. Univ. of Ireland and Harvard Univ.; Commonwealth Fellow 1926-28; John Harvard Fellow 1928-29; Lecturer in English Boston Coll. 1929, St. Mary's Coll. Strawberry Hill 1929-33; Dir. Arts Council of Ireland 1957-59. *Publications:* Lyrics and Satires from Tom Moore 1929, Midsummer Night Madness 1932, Life Story of De Valera 1933, A Nest of Simple Folk 1933, Constance Markievicz: a Biography 1934, There's a Birdie in the Cage 1935, A Born Genius 1936, Bird Alone 1936, The Autobiography of Wolfe Tone 1937, A Purse of Coppers 1937, The Silver Branch (translations) 1937, King of the Beggars (biography) 1938, She Had to Do Something (play) 1938, An Irish Journey 1939, Come Back to Erin 1940, The Great O'Neill (biography) 1942, Story of Ireland 1943, Teresa 1947, The Irish 1948, The Short Story 1948, Summer in Italy 1949, Newman's Way (biography) 1952, South to Sicily 1953, The Vanishing Hero 1956, The Stories of Seán O'Faoláin 1958, I Remember, I Remember 1962, Vive Moi 1965, The Heat of the Sun (short stories) 1966, The Talking Trees 1970, Foreign Affairs (short stories) 1975, Selected stories of Seán O'Faoláin 1978. *Leisure interests:* travel, gardening. *Address:* 17 Rosmeen Park, Dun Laoghaire, Dublin, Ireland.

OFFELEN, Jacques Van, D.ECON.; Belgian politician; b. 18 Oct. 1916, Isleworth Britain; s. of late Georges Van Offelen; m. Odette Cohen-Deswarte 1947; one s. one d.; Prof. in Inst. Supérieur de Commerce, Antwerp; mem. Chamber of Reps. 1958-77, Senator 1977-; Minister for External Trade 1958-61; Minister for Econ. Affairs 1966-68; Major of Uccle 1964-; mem. European Parl. 1965–; mem. Parti pour la Liberté et le Progès. *Publications:* La Lutte d'Anvers pour la liberté du commerce des ceréales 1945, Chronique du Plan Marshall 1949, Survivre 1955, Deux ans de politique économique 1956, Pouvoir et Liberté 1962, Chemins de la politique 1971. *Address:* Rue Roberts-Jones 1964, 1180 Brussels, Belgium. *Telephone:* 3740599.

OFFERGELD, Rainer; German politician; b. 26 Dec. 1937, Genoa, Italy; s. of Carlo O. and Erna (Buchter) Offergeld; m. Christel Hiller 1967; three d.; ed. Grammar School, Meersburg, and Frankfurt, Freiburg, Lyon and Zürich Univs.; Councillor, Fed. Law and Tax Admins.; Town Councillor and Administrator; mem. Bundestag 1969-; Sec. of State to Minister of Finance 1975-78; Minister for Econ. Co-operation Feb. 1978-. *Leisure interest:* skiing. *Address:* Bundesministerium für Wirtschaftliche Zusammenarbeit, 53 Bonn, Frederich-Ebert Allee 116, Federal Republic of Germany.'

OFFROY, Raymond, LL.D.; French diplomatist; b. 3 May 1909; m. Countess de Scaffa 1965; one s. five d.; Attaché Bucharest 1937, Sec. 1938; Sec. Athens 1940, Acting Consul-Gen. Salonika 1941; Head of Admin. Service Free French Foreign Office, French Nat. Cttee.'s rep. to Inter-Allied War Crimes Comm. 1941 and to Netherlands Govt. 1942; Acting Counsellor of Embassy 1942; Diplomatic Asst. to Gen. Catroux mission to Gen. Giraud, Algiers 1943; Deputy Sec. to French Provisional Govt., Gen. Sec. to Econ. Cttee. 1944; Head of Information and Press Section, Ministry of Foreign Affairs 1945-49; Consul-Gen. Milan 1949-52; Diplomatic Adviser to High Commr. in Indo-China 1951, Deputy Commr.-Gen. 1953; Asst. Del. to Geneva Conf. 1954; Amb. to Thailand 1954-57; French Rep to SEATO 1955-57; Dir. of Central Information Office, Paris 1957-59; Head, Franco-African Community Dept., Ministry of Foreign Affairs, Chair. Franco-African Community, Cttee. of Foreign Affairs 1959-60; Amb. to Nigeria 1960-61, to Mexico 1961-65; Député de la Seine Maritime 1967-68, 1968-78; Rep. for France to European Parl. 1969-73; Pres. French Parl. Fed. of Friendship Groups with Arab Countries 1973-78, European Parl. Assen. for Euro-Arab Co-operation 1974-78, (Hon. Chair. 1978-), French Assen. How to know the Arab World 1975; Vice-Pres. France-Iraq Assen. 1979-; Officier légion d'honneur. *Publications:* Le Problème de l'eau en Syrie 1934, Au service de l'ennemi 1941, La France combattante à l'étranger 1943, Quand le coeur a raison 1973, De Gaulle et le service de l'état 1977. *Address:* 18 avenue Friedland 75008 Paris, France. *Telephone:* 561-18-11.

Ó FIAICH, H. E. Cardinal Tomás, M.A.; Irish ecclesiastic; b. 3 Nov. 1923, Co. Armagh; s. of Patrick and Annie (Caraher) Fee; ed. St. Patrick's Coll. Armagh, St. Patrick's Coll. Maynooth, St. Peter's Coll. Wexford, Univ. Coll Dublin, Catholic Univ. of Louvain; Lecturer in Modern History, St. Patrick's Coll. Maynooth 1953-59, Prof. 1959-74, Registrar 1968-70, Vice-Pres. 1970-74, Pres. 1974-77; Pres. of Irish-speaking Priests 1955-67; Chair. Govt. Comm. on Restoration of Irish Language 1959-63, Govt. Advisory Council on Irish Language 1965-68; Mem. Senate, Nat. Univ. of Ireland 1964-72, 1974-77, Higher Educ. Authority 1972-74; Archbishop of Armagh and of All Ireland 1977-; Chair. Irish Episcopal Council 1977-; cr. Cardinal May 1979. *Publications:* Gaelscrínte i gCéin 1960, Irish Cultural Influence in Europe 1966, Imeacht na nIarlaí 1972, Má Nuad 1972, Art Mac Cooey and his Times 1973, Columbanus in his own Words 1974, Oliver Plunkett, Ireland's New Saint 1975, Oilibhéar Pluincéid 1976, many articles in Irish historical and literary journals. *Leisure interests:* reading, travel, sport. *Address:* Ara Coeli, Armagh, Ireland. *Telephone:* 522 045.

O'FLAHERTY, Liam; Irish novelist; b. 1896, Aran Islands; ed. Rockwell Coll., Blackrock Coll., and Nat. Univ. *Publications:* Thy Neighbour's Wife. The Black Soul, The Informer, The Tent and other stories 1926, Mr. Gilhooley 1926, The Life of Tim Healy 1927, The Assassin 1928, The Mountain Tavern and other stories 1929. A Tourist's Guide to Ireland 1929, The House of Gold 1929, Two Years 1930, I Went to Russia 1931, The Puritan 1932, Skerrett 1932, Shame the Devil 1934, Hollywood Cemetery 1935, Famine 1937, Short Stories of Liam O'Flaherty 1937, Land 1946, Two Lovely Beasts (short stories) 1948, Insurrection 1950, The Short Stories of Liam O'Flaherty 1956, The Pedlar's Revenge 1976. *Address:* c/o A. D. Peters, 10 Buckingham Street, London, W.C.2, England.

OGARKOV, Marshal Nikolay Vasiliyevich; Soviet army officer; b. 30 Oct. 1917, Molokovo, Kalinin Region; ed. Acad. of Mil. Eng. and Gen. Staff Acad. Sec. and book-keeper of trade union district cttee. while a student 1933-38; served army 1938-; regt., brig., div. engineer 1939-45; staff and other senior posts incl. Commdr. of Motorized Infantry Div., Chief of Staff and First Deputy Commdr. of Byelorussian Mil. District, Commdr. of Volga Mil. District until 1968; Deputy to U.S.S.R. Supreme Soviet 1966-; First Deputy Chief of Gen. Staff 1968-77; Deputy Minister of Defence 1974-; Chief of Gen. Staff Jan. 1977-; mem. CPSU 1945-, Cand. mem. Cen. Cttee of CPSU 1966-71, mem. 1971-; Order of Red Banner, Order of Great Fatherland War, Hero of Soviet Union and other decorations. *Address:* Ministry of Defence, 34 Naberezhnaya M. Thoreza, Moscow, U.S.S.R.

OGAWA, Heiji; Japanese politician; b. 1910, Nagano Prefecture; s. of Heikichi Ogawa; elected 10 times to House of Reps. 1952-; fmr. Deputy Cabinet Sec.; Minister of Labour 1967-68; Vice-Chair. Policy Affairs Research Council of Liberal Dem. Party (LDP), also Chair. LDP Research Comm. on the Tax System; assoc. of Masayoshi Ohira (*q.v.*); Minister of Home Affairs, Chair. Nat. Public Safety Comm., Dir.-Gen. of Hokkaido Devt. Agency 1976-77. *Address:* c/o Ministry of Home Affairs, Tokyo, Japan.

OGAWA, Heishiro, B.A.; Japanese diplomatist; b. 17 March 1916, Tokyo; s. of Heikichi and Kin Ogawa; m. Yoshiko Ito 1945; two d.; ed. Tokyo Univ. Laws Dept.; joined Ministry of Foreign Affairs 1938; Consul, Hong Kong 1952; Head China Div., Ministry of Foreign Affairs 1954-57; Counsellor, Japanese Embassy, Washington, D.C. 1957-60; Consul-Gen., Hong Kong 1960-66; Dir.-Gen. Asian Affairs Bureau 1966-68; Amb. to Denmark 1968-72; Pres. Foreign Service Inst. 1972-73; Amb. to People's Repub. of China 1973-77; Fellow Woodrow Wilson Center, Washington, D.C. 1977-78; Adviser Sumitomo Corpn., Tokyo 1978-. *Publication:* Four Years in Peking. *Address:* 1-12-14-207, Denenchofu, Ohta-ku, Tokyo, Japan. *Telephone:* 03-722-4550.

OGAWA, Masaru, M.A.; Japanese journalist; b. 1915, Los Angeles, U.S.A.; s. of Kenji Ogawa and Mine Fuijioka; m. Ayame Fukuhara 1942; one s. two d.; ed. Univ. of California at Los Angeles, Tokyo Imperial, Columbia Univs.; Domei News Agency 1941-46; Kyodo News Service 1946-48; The Japan Times 1948-, Chief, political section 1949, Asst. Man. Editor 1950, Chief Editor 1952, Man. Editor 1958-64, Dir. 1959-, Exec. Editor 1964-68, Senior Editor 1968-71, Chief Editorial Writer 1969-71, Editor 1971-77; Adviser 1977-; Lecturer, Tokyo Univ. 1954-58; mem. Yoshida Int. Educ. Foundation 1968-, Exec. Dir. 1972-; mem. Japan Broadcasting Corpn. Overseas Program Consultative Council 1974-, Japan Editors' and Publishers' Assen., Int. Press Inst., Editorial Board Media Magazine, Hong Kong 1974; Dir. Int. Motion Picture Co. 1970; Pres. Pacific News Agency 1973-; life mem. Foreign Corresp. Club of Japan 1973-. *Leisure interests:* reading, sport. *Address:* 2, 14-banchi, 5-chome, Mejiro, Toshima-ku, Tokyo, Japan. *Telephone:* 952-8822.

OGBU, Edwin Ogebe; Nigerian diplomatist; b. 28 Dec. 1926, Utonkon; s. of Chief Ogbu Iyana and Eje Alua; m. 1st Victoria Eve Ogaga 1948, 2nd Mildred Louis Johnson 1951; two s. nine d.; ed. Bethune-Cockman Coll., Florida, and Stanford Univ., California, U.S.A.; Asst. Sec. Ministry of Finance, Kaduna 1957; Sec. Students Affairs, Nigerian High Comm., London 1960; Sec. Fed. Public Service Comm. 1960-62; Perm. Sec. Fed. Ministry of Works 1962-63, Fed. Ministry of Finance 1963-66, Fed. Ministry of External Affairs 1966-68; Perm. Rep. to UN 1968-75; High Commr. to Barbados, Jamaica, Trinidad and Tobago and Guyana 1970-75; Chair. UN Special Cttee. on Apartheid 1972-75. *Leisure interest:* photography. *Address:* c/o Permanent Mission of Nigeria to the United Nations, 757 Third Avenue, New York, N.Y. 10017, U.S.A.

OGDON, John (Andrew Howard); British concert pianist; b. 27 Jan. 1937; ed. Manchester Grammar School and Royal Manchester Coll. of Music; Concert appearances in London, Spoleto, Edinburgh, Moscow, Milan, Antwerp; Michaelangeli Festival, Brescia 1966; Liszt Prize, London 1961, Tchaikovsky Award, Moscow 1962; Joint Dir. Cardiff Festival of Twentieth Century Music; Prof. of Music, Univ. of Indiana 1977-; Harriet Cohen Int. Award. *Address:* c/o Music Department, University of Indiana, Bloomington, Ind. 47401, U.S.A.

OGG, Sir William Gammie, M.A., LL.D., PH.D., F.R.S.E.; British chemist; b. 2 Nov. 1891, Aberdeenshire, Scotland; s. of the late James Ogg; m. Helen Hilbert 1922; one s. one d.; ed. Aberdeen Univ., and Christ's Coll., Cambridge; Research Officer, Aberdeen Univ. Agricultural Dept. 1914; Chemist, H.M. Explosives Factory Oldbury 1914-16; Chief Chemist and Works Man. Explosives Factory Greetland 1916-18; Research Fellow, Board of Agriculture for Scotland 1919-20, working in U.S.A. and Canada; Research worker Christ's Coll., Cambridge 1920-24; Advisory Officer in Soils, Edinburgh and East of Scotland Coll. of Agriculture 1924-30; First Dir. Macaulay Inst. for Soil Research and Research Lecturer in Soil Science, Aberdeen Univ. 1930-45; Dir. Rothamsted Experimental Station and Consultant Dir. Commonwealth Bureau of Soil Science 1943-58; Foreign corresp. French Acad. of Agriculture; Foreign mem. Royal Acad. of Agriculture of Sweden; Foreign mem. All-Union Acad. of Agricultural Sciences of the U.S.S.R.; Hon. Fellow Royal Agricultural Soc. of England. *Address:* Arnhall by Edzell, Angus, Scotland. *Telephone:* Edzell 400.

OGILVIE, Richard Buell, B.A., JU.D.; American lawyer and politician; b. 22 Feb. 1923, Kansas City, Missouri; s. of Kenneth S. Ogilvie and Edna Mae Buell Ogilvie; m. Dorothy Shriver 1950; one

d.; ed. Yale Univ. and Kent Coll. of Law, Chicago; with law firm Lord, Bissell & Brook 1949-54, 1955-58, Partner 1958; Asst. U.S. Attorney, Justice Dept. 1954-55; Special Asst. to U.S. Attorney Gen. 1958-61; Partner, Stevenson, Conaghan, Hackbert, Rooks & Pitts 1961-62; Sheriff, Cook County 1962-66; Pres. Cook County Board of Commrs. 1966-69; Governor of Illinois 1969-73; Partner Isham, Lincoln & Beale 1973-; Purple Heart; Republican. *Leisure interests:* hunting, golf, reading. *Address:* 1 First National Plaza, Chicago, Ill. 60670 (Office); 1500 North Lake Short Drive, Chicago, Ill. 60610, U.S.A. (Home).

OGILVY, H.R.H. Princess Alexandra, the Hon. Mrs. Angus, G.C.V.O.; b. 25 Dec. 1936; d. of the late Duke of Kent (fourth s. of King George V) and Princess Marina (d. of late Prince Nicholas of Greece); m. Hon. Angus James Bruce Ogilvy (second s. of late 12th Earl of Airlie, K.T., G.C.V.O., M.C.) 1963; one s. one d.; ed. Heathfield School, Ascot; Chancellor, Univ. of Mauritius, Univ. of Lancaster; Col.-in-Chief, 17th/21st Lancers, the King's Own Royal Border Regt., The Queen's Own Rifles of Canada and the Canadian Scottish Regt. (Princess Mary's); Deputy Col.-in-Chief, The Light Infantry; Deputy Hon. Col., The Royal Yeomanry (Territorial Army Voluntary Reserves); Hon. Commdt. Gen., The Royal Hong Kong Police Force and Royal Hong Kong Auxiliary Police Force; Hon. Commdt. Women's Royal Australian Naval Service; Patron and Air Chief Commdt., Princess Mary's Royal Air Force Nursing Service; Patron, Queen Alexandra's Royal Naval Nursing Service; Pres. or Patron of many charitable and social welfare orgs.; Hon. Fellow, Royal Coll. of Physicians & Surgeons of Glasgow, Faculty of Anaethetists of the Royal Coll. of Surgeons of England, Royal Coll. of Obstetricians & Gynaecologists; Hon. Freedom, Worshipful Co. of Clothworkers; Hon. degrees (Queensland, Hong Kong, Mauritius); decorations from Mexico, Peru, Chile, Brazil, Japan, Finland, Luxembourg; rep. H.M. Queen Elizabeth II at independence celebrations of Nigeria 1960 and St. Lucia 1979, 150th anniversary celebrations, Singapore 1969. *Leisure interests:* music, reading, tapestry, outdoor recreations incl. swimming, skiing, riding. *Address:* Thatched House Lodge, Richmond Park, Surrey; 22 Friary Court, St. James's Palace, London SW1A 1BQ, England. *Telephone:* 01-930 1860.

OGILVY, David Mackenzie, C.B.E.; British advertising executive; b. 23 June 1911, West Horsley; s. of Francis J. L. and Dorothy (née Fairfield) Ogilvy; m. Herta Lans 1973; one s.; ed. Fettes Coll., Edinburgh, and Oxford Univ.; Assoc. Dir. Audience Research Inst., Princeton 1939-42; with British Security Co-ordination 1942-44; Second Sec. British Embassy, Washington 1944-45; founder 1948, subsequently Pres., Ogilvy, Benson and Mather, New York, Creative Dir. 1973-; Chair. Public Participation Cttee., Lincoln Center 1959, United Negro Coll. Fund 1968; Dir. New York Philharmonic 1957-67; Trustee Colby Coll. 1963-69; Trustee and mem. Exec. Council World Wildlife Fund Int. 1975-; mem. American Assen. of Advertising Agencies, Gov. Eastern Region 1959-61; Hon. Litt.D. (Adelphi) 1977; Parlin Award of American Marketing Assen. 1972, elected to Advertising Hall of Fame 1977. *Publications:* Confessions of an Advertising Man 1964, Blood, Brains and Beer. *Address:* Château de Touff[illegible], 86300 Bonnes, France (Home).

O'GORMAN, Juan; Mexican architect and artist; b. 6 July 1905, Coyoacán, D.F.; s. of Cecil Crawford O'Gorman and Encarnación O'Gorman; m. Helen Fowler 1940; one d.; ed. Univ. Nacional Autónoma de México; with C. Obregón Santacilia and J. Villagran, Architects 1926-29; private architectural practice 1929-32; Prof. Polytechnic Inst., Mexico City 1932-46; Head, Dept. of Architecture, Secr. of Public Educ. 1932-35; Visiting critic School of Architecture, Yale Univ. 1966; *Works include:* murals for Mexico City Airport, Patzcuaro (Mich.) Library; mosaics for Library of Univ. of City of Mexico, Secr. of Public Works and Communications buildings; stone mosaics, mural of Cuauhtemoc in the Hotel Posada de la Misión, in Taxco Guerrero, façade of Convention Centre Building, San Antonio, Texas; and murals in Castle of Chapultepec, Mexico City, Mexican Inst. of Social Security, Mexico City and Banco Internacional, Mexico City; paintings in Museum of Modern Art, New York, Palace of Fine Arts and Museum of Modern Art, Mexico City; Elias Sourasky Nat. Art Award 1967, Nat. Prize in Art 1972. *Leisure interest:* painting. *Address:* Jardín 88, San Angel, México 20, D.F., Mexico. *Telephone:* 48-39-19.

O'GREEN, Frederick W., M.S.; American industrialist; b. 25 March 1921; m. Mildred Ludlow; two s. two d.; ed. Iowa State Univ. and Univ. of Maryland; Engineer, Naval Ordnance Lab. 1943-55; Dir. Lockheed's Agena-D project 1955-62; Vice-Pres. Litton Industries 1962-66, Senior Vice-Pres. 1966-71, Exec. Vice-Pres. 1971-72, Pres. 1972-; mem. American Inst. of Aeronautics and Astronautics; mem. Board of Govs., Nat. Maritime Council; Outstanding Achievement Award, Air Force Systems Command 1964, Distinguished Achievement Citation, Iowa State Univ. 1973. *Address:* Litton Industries Inc., 360 North Crescent Drive, Beverly Hills, Calif. 90210, U.S.A.

OGSTON, Alexander George, D.PHIL., F.A.A., F.R.S.; British professor of biochemistry; b. 30 Jan. 1911, Bombay, India; s. of Walter H. Ogston and Josephine E. Carter; m. Elizabeth Wicksteed 1934; one s. three d.; ed. Eton Coll. and Balliol Coll., Oxford; Demonstrator in Chemistry, Balliol Coll., Oxford 1933-35; Research Fellow, London Hosp. 1935-37; Fellow and Tutor, Balliol Coll. 1937-60; Reader in Biochemistry, Univ. of Oxford 1957; Prof. of Physical Biochem., John Curtin School of Medical Research, Australian Nat. Univ. 1959-70, Prof. Emer. 1970-; Pres. Trinity Coll., Oxford 1970-78; Vice-Chair., Cen. Council, Selly Oak Colls. Birmingham 1976-; Fellow, Australian Acad. of Science 1962, Hon. Fellow, Balliol Coll., Oxford 1969; Hon. D.Med. (Uppsala). *Publications:* scientific papers. *Address:* c/o Trinity College, Oxford, OX1 3BH, England.

OGURA, Takakazu; Japanese agriculturist; b. 2 Oct. 1910, Fukui Prefecture; s. of Reizô and Hisako Ogura; m. Chieko Ogura 1937; two s. one d.; ed. Tokyo Imperial Univ.; Posts with Ministry of Agriculture and Forestry 1934-56; Lecturer, Faculty of Agriculture, Univ. of Tokyo 1947-61; Dir.-Gen. Food Agency 1956-58; Sec.-Gen. Research Council on Agriculture, Forestry and Fisheries 1958-60; Vice-Minister of Agriculture and Forestry 1960-61; Chair Research Council on Agriculture, Forestry and Fisheries 1963-; Dir. Research Inst. on Mechanization of Agric. 1965-; Pres. Inst. of Developing Economies 1967-72, Chair. 1972-75, Adviser 1975-; mem. Policy Board, The Bank of Japan. *Publications:* Agricultural Policy of Japan 1965 (in Japanese), Agricultural Development in Modern Japan 1966, Agrarian Problems and Agricultural Policy in Japan 1967, Can Japanese Agriculture Survive? A Historical Approach 1979 (in English); articles in English and Japanese. *Address:* The Bank of Japan, 2-1 Nihonbashi-Hongokucho 2-chome, Chuoku, Tokyo 103 (Office); 3-1-1006 Ostuka 2-chome, Bunkyo-ku, Tokyo 112, Japan (Home). *Telephone:* Tokyo 945-1805 (Home).

OHARA, Eiichi; Japanese business executive; b. 2 Dec. 1912, Hiroshima; ed. Tokyo Univ.; with the Industrial Bank of Japan 1936-63; Exec. Vice-Pres. Fuji Heavy Industries Ltd. 1963-70, Pres. 1970-; Chair. Fuji Robin Industries Ltd.; Pres. Transport Machine Industries Ltd.; mem. Japan Fed. of Econ. Orgs., Aircraft Industry Council; Dir. Japan Automobile Mfrs. Assen.; Trustee, Japan Cttee. for Econ. Devt. *Leisure interests:* Go, golf. *Address:* Fuji Heavy Industries Ltd., Subaru Buildings, 7, 1-chome, Nishishinjuku, Shinjuku-ku, Tokyo, Japan.

OHIRA, Masayoshi; Japanese politician; b. 12 March 1910; ed. Tokyo Commercial Coll.; Ministry of Finance 1936, Supt. Yokohama Revenue Office 1937-38, Private Sec. to Minister of Finance 1949; mem. House of Reps. 1952-; Chief Cabinet Sec. 1960-62; Minister for Foreign Affairs 1962-64; Chair. Policy Board, Liberal-Dem. Party (LDP) 1967-68, Sec.-Gen. of LDP Dec. 1976-; Minister of Int. Trade and Industry 1968-70, of Foreign Affairs 1972-74, of Finance 1974-76; Prime Minister of Japan Nov. 1978-. *Publications:* Essays: Sugao no Daigishi (A Parliamentarian As He Is) 1954, Random Thoughts on Public Finance 1956. *Address:* Jiyu-Minshuto, 7, 2-chome, Hirakawacho, Chiyoda-ku, Tokyo; 105 Komagome Hayashicho, Bunkyo-ku, Tokyo, Japan.

OHLIN, Bertil G.; Swedish economist, university professor and politician; b. 23 April 1899; s. of Elis and Ingeborg Ohlin; m. Evy Kruse 1931; ed. Stockholm School of Econs.; Prof., Univ. of Copenhagen, Denmark 1924-29; Prof. of Econs., Stockholm School of Econs. 1929-65, Emer. 1965-; M.P. 1938-70; Leader Swedish Liberal Party 1944-67; Minister of Commerce 1944-45; shared Nobel Prize (with J. Meade, *q.v.*) for Econ. Science 1977. *Publications:* The Theory of Trade 1924 (in Swedish), Foreign Trade and Trade Policy 1925 (in Swedish), The World Economic Depression 1931, Interregional and International Trade 1933, Monetary Policy and Public Works as Instruments Against Unemployment 1934 (in Swedish), The Capital Market and Interest Rates Policy 1941 (in Swedish), The Problem of Employment Stabilization 1949, The International Allocation of Economic Activity (editor) 1977. *Address:* Norr Mälarstrand 72, S-112 35 Stockholm, Sweden. *Telephone:* 08/53 50 85.

OHNO, Isamu; Japanese business executive; b. 17 March 1899, Tokyo; s. of Thoru and Mura Yokoi; m. Take Onoda 1930; three s. one d.; ed. Keio Univ.; Chair. Morinaga Milk Industry Co. Ltd. *Leisure interest:* archaeology. *Address:* Morinaga Milk Industry Co. Ltd., 33-1, 5-chome, Shiba, Minato-ku, Tokyo 108, Japan. *Telephone:* Tokyo (03) 456-0111.

OHTANI, Ichiji; Japanese textile executive; b. 31 Aug. 1912, Kobe; s. of Kyosuke and Tama Ohtani; m. Junko Suzuki 1943; two

s. one d.; ed. Kobe Univ.; Dir. Toyobo Co. Ltd. 1964-68, Man. Dir. 1968-72, Senior Man. Dir. 1972-74, Deputy Pres. 1974, Pres. 1974-78, Chair. July 1978-; Dir. Toyobo Petcord Co. Ltd. 1969-78; Vice-Pres. Industrias Unidas, S.A. 1973-; Exec. Dir. Fed. of Econ. Orgs. 1976-; Chair. Japan Spinners' Assn. 1976-, Diafibers Co. Ltd. 1977–; Vice-Pres. Japan Textile Fed. 1976-; Junior Vice-Pres. Int. Textile Mfrs. Fed. 1976-68, Senior Vice-Pres. 1978-. *Leisure interests:* sports, especially rugby and golf. *Address:* Toyobo Co. Ltd., 1-9 Dojima Hama 2-chome, Kita-ku, Osaka 530 (Office); 69 Yamatecho, Ashiya-shi 659, Japan (Home). *Telephone:* (06) 348-3251 (Office); (0797) 22-2057 (Home).

OHYA, Kazuo, LL.B.; Japanese business executive; b. 8 Sept. 1902, Higashi-Tonami-gun; m. Kaoru Ohya 1927 (deceased); three s. one d.; ed. Kyoto Univ.; Sumitomo Ltd. Partnership Co. 1928; Man. Dir. Nissin Chemical Co. Ltd. (later Sumitomo Chemical Co. Ltd.) 1947-56, Senior Man. Dir. Sumitomo Chemical Co. 1956-63, Pres. 1963-65, Counsellor 1965-; Dir. Japan Exlan Co. Ltd. 1963-, Chair. of Board 1965-; Pres. Osaka Labour Standard Assn. 1963-; Perm. Dir. Japan Fed. of Employers' Assn. 1963-; Blue Ribbon Medal; 2nd Order of Merit with Order of the Sacred Treasure. *Leisure interests:* Kendo (Japanese fencing), Go. *Address:* Japan Exlan Co. Ltd., 25-1 Dojima Hama 1-chome Kita-ku, Osaka 530 (Office); 2-27-6, Fujishirodai, Suita, Japan (Home). *Telephone:* Osaka (06)-344-1451 (Office); Senri (068) 32-7013 (Home).

OHYA, Shinzo; Japanese business executive; b. 5 July 1894, Gunma Prefecture; s. of Naka Ohya and Tsune Ohya (Hayakawa); m. Masako Morita 1950; two d.; ed. Tokyo Coll. of Commerce; entered Suzuki Shoten Co. Ltd. 1918; joined Teijin Ltd. (fmrly. Teikoku Rayon Co. Ltd.) 1925, Pres. 1945-48, Chair. Board of Dirs. 1951, Pres. 1956-; mem. House of Councillors 1947-56; Minister of Int. Trade and Industry 1948-49, of Finance 1948-49, of Transportation 1949-50; Pres. Teijin Petrochemical Industries Ltd., Teijin Chemicals Ltd., Teijin Hercules Chemical Co. Ltd., Teijin Agrochemicals Ltd., KK. Paris Nippon Kan., Iranian Petroleum Corpn. 1971-; Dir. Teijin Shoju Kaisha Ltd., Teijin Seiki Co. Ltd., Sogo Stores Ltd., Nihon Soda Co. Ltd., Osaka Broadcasting Corpn., Osaka Petroleum Industries Ltd., Overseas Petroleum Corpn., Toyo Oil Devt. Corpn., Japan Synthetic Textiles Export Corpn.; Auditor Nihon Lactam Co. Ltd., Yomiuri Telecasting Corpn.; Adviser Kobe Steels Ltd., Nissho-Iwai Co. Ltd., Nigeria Oil Co. Ltd., The Sanwa Bank Ltd.; Pres. Osaka German-Japan Soc. 1967-; Japan-Belgium Soc. 1969-, Japan-Madagascar Assn. 1970-, Japan-Turkey Soc. 1971-, Japan-Hungary Econ. Club 1971-, Japan-Thailand Trade Assn. 1972-, Kansai Kiin (Inst. of "Go") 1957; Vice-Pres. France-Japan Soc. 1964-, Japan-Thailand Cultural Soc. 1969-; Councillor Japan-Finland Soc. 1960-; Italy-Japan Soc. 1963-, Japan-Singapore Assn. 1971-; mem. Japan-America Soc. 1951-, Atlantic Inst. 1969-; British Soc. 1971-; several decorations. *Leisure interests:* reading, golf, Go. *Address:* 14-5, Kitabatake 3-chome, Abeno-ku, Osaka; and 16-22, Todoroki 1-chome, Setagaya-ku, Tokyo, Japan. *Telephone:* (03) 701-4384; and (06) 652-3553.

OISTRAKH, Igor Davidovich; Soviet violinist; b. 27 April 1931, Odessa; s. of late David Oistrakh; ed. Music School and State Conservatoire, Moscow; Student State Conservatoire 1949-55; many foreign tours, several concerts with father David Oistrakh; 1st prize, Violin competition, Budapest 1952, Wieniawski competition, Poznań; Honoured Artist of R.S.F.S.R. *Address:* State Conservatoire, 13 Ulitsa Herzen, Moscow, U.S.S.R.

OIZERMAN, Teodor Ilyich; Soviet philosopher; b. 14 May 1914, Petroverovka; s. of Ilya Davidovich Oizerman and Elizabetha Abramovna Nemirovskaya; m. Genrietta Kasavina; two s. one d.; ed. Moscow Inst. of History, Philosophy and Literature; Industrial worker 1930-33; Postgraduate 1938-41; Army service 1941-46; Asst. Prof., Moscow Inst. of Econs. 1946-47; Asst. Prof., Prof. Moscow Univ. 1952-, Head of Chair 1954-68; corresp. mem. U.S.S.R. Acad. of Sciences 1966-; Head Dept. of History of Philosophy, Inst. of Philosophy of Acad. of Sciences 1971-; various decorations. *Publications:* Razvitije Marxistskoi teorii na opite revolutzii 1848 goda 1955, Philosophie Hegels 1959, Formirovanie filosofii Marxisma 1962, 1974, Zur Geschichte der vormarxischen Philosophie 1961, Die Entfremdung als historische Kategorie 1965, Problemi istoriko-filosofskoi nauki 1969, Glavnie filosofskie napravlenija 1971, Krisis sovremennogo idealisma 1973, Filosofiya I. Kanta 1974, Historical Materialism and Ideology of Technological Pessimism 1976, Dialektitcheskij materialism i istorija philosophii 1979, and over 270 articles on philosophical problems. *Leisure interest:* walking. *Address:* Institute of Philosophy, U.S.S.R. Academy of Sciences, 14 Volchonka, Moscow (Office); Ap. 168, 1 Mendelev Street, Moscow 117234, U.S.S.R. (Home).

OJEDA PAULLADA, Pedro; Mexican lawyer; b. 19 Jan. 1934, México, D.F.; s. of Manuel Ojeda Lacroix and Adela Paullada de Ojeda; m. Olga Cárdenas de Ojeda 1959; two s. three d.; ed. Universidad Nacional Autónoma de México; Head of Personnel and lawyer, Técnica y Fundación, S.A. de C.V. 1955, Sub-Man. 1955-57; Gen. Man. Industria Química de Plásticos S.A. 1957-58; Deputy Dir.-Gen. Juntas Federales de Mejoras Materiales 1959-65; Dir.-Gen. of Legal Affairs, SCT 1966-70; Sec.-Gen. Presidential Secr. 1970-71; Attorney-Gen. 1971-76; Sec. of Labour and Social Welfare Dec. 1976-; Gen. Coordinator, Mexican Programme for Int. Women's Year 1975; Chair. World Conf. of Int. Women's Year 1975, 64th Int. Conf. of ILO 1978; Order of Merit (Italy), La Gran Cruz al Mérito (Italy), Order de Isabel la Católica (Spain). *Address:* Montaña 600, Villa Alvaro Obregón, México 20, D.F., Mexico. *Telephone:* 521-37-14.

OJUKWU, General Chukwuemeka Odumegwu, M.A.; Nigerian army officer and politician; b. 4 Nov. 1933; ed. C.M.S. Grammar School and King's Coll., Lagos, Epsom Coll., U.K., Lincoln Coll., Oxford, Eaton Hall Officer Cadet School, U.K. and Joint Services Staff Coll., U.K.; Admin. Officer, Nigerian Public Service 1956-57; joined Nigerian Army 1957; at Nigerian Army Depot, Zaria 1957; army training in U.K. 1957-58; joined 5th Battalion Nigerian Army 1958; Instructor, Royal West African Frontier Force Training School, Teshie 1958-61; returned to 5th Battalion Nigerian Army 1961; Maj. Army HQ 1961; Deputy Asst. Adjutant and Quartermaster-Gen. Kaduna Brigade HQ 1961; Congo Emergency Force 1962; Lieut.-Col. and Quartermaster-Gen. 1963-64; Commdr. 5th Battalion, Kano 1964-66; Mil. Gov. of E. Nigeria 1966-67; Head of State of Republic of Biafra (E. Region of Nigeria) 1967-70; sought political asylum in Ivory Coast Jan. 1970; living in Abidjan, Ivory Coast.

OKADA, Kenzo; Japanese artist; b. 28 Sept. 1902; ed. Tokyo Fine Arts Univ.; works in Guggenheim Museum, Museum of Modern Art (both in New York); in Dunn Int. Exhbn., Tate Gallery, London 1963; Campana Memorial Prize, Art Inst. of Chicago 1954, Logan Prize 1955. *Address:* 51 West 11th Street, New York, N.Y. 10011, U.S.A.

OKAI, Lieut.-Gen. Lawrence Aboagye; Ghanaian army officer; b. 1934, Asafo-Akim: ed. Achimota Coll., Coll. of Tech. and Royal Military Acad., Sandhurst; joined army as pioneer 1953; Second Lieut. in Royal West African Frontier Force 1955; Defence Attaché, Washington 1968; Dir. of Mil. Intelligence 1972-73; Commr. for Nat. Redemption Council Affairs 1973-75; Chief of Defence Staff 1975-76; mem. Supreme Mil. Council 1975-76; retd. from army 1976. *Address:* c/o Ministry of Defence, Accra, Ghana.

OKASHA, Sarwat, D. ÈS L.; Egyptian diplomatist, politician and banker; b. 1921, Cairo; m. Islah Abdel Fattah Lotfi 1943; one s. one d.; ed. Military Coll. and Cairo Univ.; Cavalry Officer 1939; took part in Palestine war 1948-49: Mil. Attaché, Berne 1953-54, Paris 1954-56; Counsellor in Presidency of Pepub. 1956-57; Egyptian Amb. to Italy 1957-58; U.A.R. Minister of Culture and Nat. Guidance 1958-62; Chair. and Man. Dir. Nat. Bank 1962-66; Deputy Prime Minister and Minister of Culture 1966-67; Minister of Culture 1967-71; Asst. to the Pres. 1971-June 1972; Pres. of Supreme Council for Literature, Art and Social Sciences; Pres. Egypt-France Assn. 1965-; numerous awards and foreign decorations. *Publications:* Nineteen works (including translations) 1942-62, L'oeil écoute et l'oreille voit (in Arabic), studies of the works of Wagner and Gibran, The Development of European Music (in Arabic). *Leisure interests:* horse-riding, golf, music. *Address:* Villa 34, Rue 14, Méadi, Egypt.

OKAUCHI, Hideo; Japanese business executive; b. 19 Nov. 1908, Ayauta-gun, Kagawa-ken, s. of Nakataro and Ei Okauchi; m. Sumako Maeda 1937; two s. two d.; ed. Takamatsu Commercial High School (now Kagawa Univ.); joined Shiseido Co., Ltd. 1929, Dir. 1947, Man. Dir. 1960, Senior Man. Dir. 1966, Pres. 1967-75, Chair. 1975-78; Exec. Counsellor, Tokyo Chamber of Commerce and Industry 1967-; Rep. Dir. Tokyo Cosmetic Industry Assn. 1972-, Cosmetic Fair Trade Council 1972-; Dir. Japan Cosmetic Industry Assn. 1972-, Japan Cosmetic Assn. 1971-, Japan Man. Assn. 1967-. *Leisure interests:* golf, Japanese calligraphy. *Address:* 5-16-7 Nishikoiwa, Edogawa-ku, Tokyo, Japan (Home). *Telephone:* 657-0958 (Home).

OKAWARA, Yoshio, LL.B.; Japanese diplomatist; b. 5 Feb. 1919, Gunma; m. Mitsuko Terajima 1948; three s.; ed. Tokyo Univ.; Second, then First Sec. Embassy, London 1954-56; First Sec. Embassy, Manila 1956-58; First Sec. Washington, D.C. 1962, Counsellor 1963-65; Dir. Personnel Div., Ministry of Foreign Affairs 1965-67, Deputy Dir.-Gen. of American Affairs Bureau 1967-71, Dir.-Gen. 1972-74; Minister, Washington, D.C. 1971-72; Deputy

Vice-Minister for Admin., Ministry of Foreign Affairs 1974-76; Amb. to Australia (also accred. to Nauru and Fiji) March 1976-; Fellow, Center for Int. Affair, Harvard Univ. 1962. *Leisure interests:* golf, reading. *Address:* Embassy of Japan, 112 Empire Circuit, Yarralumla, Canberra, A.C.T. 2600, Australia.

OKAZAKI, Chu; Japanese banker; b. 1 Oct. 1904, Tokyo; s. of Reijiro Kawashima; m. Kimi Okazaki 1931; one s. two d.; ed. Tokyo Univ.; joined The Bank of Kobe Ltd. (now the Taiyo Kobe Bank Ltd.) 1933, Man. Dir. 1945-47, Pres. 1947-67, Chair. 1967-73, Dir. and Counsellor 1973-; Blue Ribbon Medal 1969; Order of the Rising Sun, Second Class 1975. *Leisure interests:* painting, fishing, golf. *Address:* 1-3, Nishi-suma, Suma-ku, Kobe City, Japan. *Telephone:* 078-731-1004.

ÖKÇÜN, Gündüz; Turkish university professor and politician; b. 1936; fmr. Dean, Faculty of Political Sciences, Univ. of Ankara; Minister for Foreign Affairs June-July 1977, Jan. 1978-; Republican People's Party. *Address:* Ministry of Foreign Affairs, Ankara, Turkey.

O'KENNEDY, Michael; Irish politician; b. 21 Feb. 1936; s. of Éamonn and Helena (Slattery) O'Kennedy; m. Breda Heavey 1965; one s. two d.; ed. St. Flannan's Coll., Ennis, Univ. Coll. Dublin, King's Inns, Dublin; practised ■■ barrister 1961-70, as Senior Counsel 1973-77; mem. Senate 1965-69, Front Bench Spokesman on Educ. and Justice, Senate Statutory Instruments Cttee. on the Constitution until 1967; mem. Dáil for North Tipperary 1969-; Parl. Sec. to Minister of Educ. 1970-72, Minister without Portfolio 1972-73, Minister for Transport and Power 1973; Opposition Spokesman on Foreign Affairs 1973-77; Minister for Foreign Affairs 1977-; mem. All-parties Cttee. on Irish Relations, Chair. 1973-; mem. Informal Cttee. on Reform of Dáil Procedure until 1972, Dáil and Senate Joint Cttee. on Secondary Legislation of EEC 1973-; mem. Inter-parl. Union, mem. Exec. of Irish Council of European Movement; Fianna Fáil. *Leisure interests:* reading, philosophy, history, politics, drama, music, sports. *Address:* Ministry of Foreign Affairs, Dublin, Ireland.

OKERO, Isaac Edwin Omolo; Kenyan politician; b. 1931, Ulumbi, Nyanza Province; s. of Ibrahim and Flora Arnolo Okero; m. Jane M. A. Okero 1964; four s. two d.; ed. Makerere Univ. Coll., Uganda, Univs. of Bombay and Leiden and Middle Temple, London; State Counsel, Kenya 1962-63, Deputy Public Prosecutor 1963-65; Commr.-Gen. of Customs and Excise, East African Community 1965-69; M.P. 1969-; Minister of Health 1969-73, of Power and Communications 1973-77, 1978-; Vice-Chair. Customs Co-operatives Council; mem. Communications Council. *Leisure interests:* flying, music. *Address:* Electricity House, P.O. Box 30582, Harambee Avenue, Nairobi, Kenya.

OKEZIE, Dr. Josiah Onyebuchi Johnson, L.S.M., F.M.C.G.P.; Nigerian physician and politician; b. 26 Nov. 1924, Umuahia-Ibeku; s. of Chief Johnson Okezie and Esther Okezie; m. Rose Chioma Onwucheka 1966; four s. one d.; ed. Higher Coll., Yaba, Achimota Coll., Ghana, Yaba Coll. of Medicine, Univ. Coll., Ibadan and Royal Coll. of Surgeons, U.K.; Asst. Medical Officer, Nigerian Civil Service 1950-54; Founder and Medical Supt. Ibeku Central Hosp., Umuahia-Ibeku 1958-69; Sr. Medical Officer in charge of Queen Elizabeth Hosp., Umuahia-Ibeku 1970; Assoc. Editor, The Nigerian Scientist 1961-62; Sec. E. Nigerian Science Assen. 1961-63; mem. Nigerian Medical Council 1965-66; mem. E. Nigeria House of Ass. 1961-66; Leader, Republican Party 1964-66; Rep. of E. Central State, Fed. Exec. Council 1970; Fed. Commr. for Health 1970-71, for Agric. and Natural Resources 1971-74; installed Chief Ezoemereoha of Berde 1974; Chair. Imo State Branch, Nigerian Medical Assen. 1976; Life mem. Nigerian Bible Soc. 1972. *Publications:* The Evolution of Science 1959, Atomic Radiation 1961. *Leisure interests:* English literature, reading poetry, gardening. *Address:* P.O. Box 306, Umuahia-Ibeku, Imo State, Nigeria. *Telephone:* Umuahia 273.

OKINDA, Jérôme; Gabonese politician; b. 1933, Omoy, Franceville District; ed. St. Jean Lower Seminary, Libreville, Grand Séminaire Libermann, Brazzaville and Univ. of Aix-en-Provence, France; Mil. service 1957-62; subsequently Sec. at Gabon Embassy, London, Chargé de Mission, Ministry of Justice; elected mem. Nat. Ass. 1964; Pres. First Comm. of Admin. Affairs 1964-65, of Finance Comm. 1965, subsequently mem. Higher Admin. Council, Pres. Admin. Council, Gabonese Bank of Security; Minister of Justice and Keeper of the Seals Jan.-Feb. 1969; Minister of Public Health and Population 1969-70, of Nat. Educ. and Culture; Minister of Nat. Educ. and Scientific Research March-Oct. 1973, of Labour and Social Security 1973-75, of the Economy and Finance 1975-76; Minister of State for the Economy and Finance Aug. 1976-, of State Participation 1976-78, 1978-; Pres. Foundation for Higher Instruction in Central Africa (FESAC) 1970-71; Officer of Equatorial Star. *Address:* Ministère de l'Economie et des Finances, Libreville, Gabon.

OKITA, Saburo; Japanese economist; b. 3 Nov. 1914, Dairen, Manchuria; s. of Shuji and Hana Okita; m. Hisako Kajii 1942; three s. one d.; ed. Tokyo Univ.; joined Govt. service as engineer in Ministry of Posts 1937; Econ. Stabilization Board, Chief Research Section 1947; UN Econ. Comm. for Asia and the Far East 1952; Chief, Econ. Co-op. Unit, Econ. Planning Agency 1953, Dir.-Gen. Planning Bureau 1957-, Dir.-Gen. Devt. Bureau 1962-63; Pres. Japan Econ. Research Centre 1964-73, Chair. 1973-; mem. Pearson Comm. on Int. Devt. 1969-70, OECD High-Level Expert Group on Science Policy in 1970s 1970-71, the Group of Experts on the Structure of the UN 1975, UN Cttee. on Devt. Planning 1965-, Board of Govs. of Japan Broadcasting Corpn. 1975-77; Special Adviser Int. Devt. Centre of Japan 1973-; Pres. Overseas Econ. Co-operation Fund 1973-77; Ramon Magsaysay, Award for Int. Understanding 1971; Hon. Dr. Econ. (Nagoya); Hon. LL.D. (Univ. of Mich.) 1977. *Publications:* The Future of Japan's Economy 1960, Japan's Post-War Economic Policy 1961, Economic Planning 1962, Conditions for ■ Developed Nation 1965, Japanese Economy in the Asian Setting 1966, Future Vision for Japanese Economy 1968, Essays in Japan and World Economy (English) 1971, New Image of Japanese Economy 1971, Role of the Economist 1973, Resource-poor Japan and the World Economy 1975, Japan and the World Economy (English) 1975, Autobiography 1977, and numerous articles. *Leisure interest:* golf. *Address:* 5-13-12 Koishikawa, Bunkyo-ku, Tokyo 112, Japan. *Telephone:* 03-811-0742.

OKOGIE, Mgr. Anthony Olubunmi, S.T.L., D.D.; Nigerian catholic clergyman; b. 16 June 1936, Lagos; ed. St. Gregory's Coll., Lagos, St. Peter and St. Paul's Seminary, Ibadan, Urban Univ., Rome; ordained priest 1966; Act. Parish Priest, St. Patrick's Church, Idumagbo, Lagos; Asst. Priest, Holy Cross Cathedral, Lagos; Religious Instructor, King's Coll., Lagos; Dir. of Vocations, Archdiocese of Lagos; Man. Holy Cross Group of Schools, Lagos; Master of Ceremonies, Holy Cross Cathedral; Broadcaster of religious programmes, NBC/TV; Auxiliary Bishop of Oyo Diocese 1971-72; Auxiliary Bishop to the Apostolic Admin., Archdiocese of Lagos 1972-73; Archbishop of Lagos May 1973-. *Address:* Holy Cross Cathedral, P.O. Box 8, Lagos, Nigeria.

ØKSNES, Oskar, M.SC.; Norwegian politician; b. 11 April 1921, Kvam, Nord-Trøndelag; s. of Egil and Borghild Øksnes; m. Ragnhild Barkhald 1950; one s. one d.; ed. Nat. Teachers' Training School for Smallhold Farming, Agricultural Univ. of Norway; Man. Agronomist, later Chief County Agricultural Officer for Agricultural Econs., Agricultural Cttee. of Nord-Trøndelag 1948-62; Special Assignment in Ministry of Agric. 1952-53; County Dir. of Agric., Møre og Romsdal 1963-75; Under-Sec. of State, Ministry of Agric. 1964-65; County Dir. of Agric., Nord-Trøndelag Aug. 1975-; Minister and Head of Ministry of Agric. Jan. 1976-. *Leisure interest:* outdoor life. *Address:* Ministry of Agriculture, Oslo-Dep, Oslo 1 (Office); Sophus Lies gt. 6 B, Oslo 2, Norway (Home).

OKUDAIRA, Sen-ichi; Japanese banker; b. 20 Dec. 1910, Oita Pref.; ed. Kyoto Univ.; Dir. of Sumitomo Trust & Banking Co. Ltd. 1957, Man. Dir. 1960, Senior Man. Dir. 1965, Deputy Pres. 1969, Pres. 1972-76, Chair. 1976-78; Chair. Trust Co. Assen. of Japan; Blue Ribbon Medal. *Address:* 5-16, Chigusa 1-chome, Takarazuka City, Hyogo Pref., Japan (Home).

OKUDZHAVA, Bulat Shalvovich; Soviet poet and writer; b. 9 May 1924 (mixed Georgian and Armenian descent), Tbilisi, Georgian S.S.R.; ed. Tbilisi Inst.; War service 1941-45; began publishing 1953; mem. CPSU 1955-; taught in village schools -1956; Poetry editor of Moscow Literary Gazette 1956-64; visits to France, late 1960s, to U.K. 1977. *Publications:* Islands 1959, How are Things, School-Boy?, Published & Unpublished Verse (Frankfurt) 1964, The Merry Drummer 1964, A Ditty about Fools: A Collection of Verse (London) 1964, March Magnanimous 1967, Two Novels (Poor Avrosimov; Zhor's Photograph) (Frankfurt) 1970 (French trans. 1972), A Gasp of Freedom. A Story about Pavel Pestel 1971, The Extraordinary Adventures of Secret Agent Shipov in Pursuit of Count Leo Tolstoy in the Year 1862 1973; Scenario: Zhenya Zhemechka and 'Katyusha' 1968; Record: Boulat Okoudjava (Le Chant du Monde).

OKUN, Arthur M., A.B., PH.D.; American economist; b. 28 Nov. 1928, Jersey City, N.J.; s. of Louis and Rose Okun (née Cantor); m. Suzanne Grossman 1951; three s.; ed. Public Schools, Passaic, N.J., and Columbia Univ.; Instructor, Yale Univ. 1952-56, Asst. Prof. 1956-60, Assoc. Prof. 1960-62, Prof. and Dir. of Graduate Studies in Econs., Yale Univ. 1963-64; Editor Yale Economic Essays 1963-64; Staff mem. Cowles Foundation for Research in Econs., Yale

Univ. 1956-64; Staff Economist, Council of Econ. Advisers 1961-62, mem. Council of Econ. Advisers 1964-68, Chair. 1968-69; Consultant Donaldson, Lufkin and Jenrette, New York 1969-, American Security and Trust Co., Washington 1970-; Fellow American Acad. of Arts and Sciences, Econometric Soc., American Statistical Assn.; Senior Fellow Brookings Inst. 1969-; Vice-Pres. American Econ. Assn. 1972; mem. several councils and committees. *Publications:* Editor The Battle Against Unemployment, An Introduction to a Current Issue of Public Policy; Co-editor Brookings Papers on Economic Activity 1970-; Co-author Inflation: The Problems It Creates and the Policies It Requires 1970; Author: The Political Economy of Prosperity 1970; Equality and Efficiency: The Big Tradeoff 1975; articles on economic forecasting, inflation, monetary and fiscal policy, potential GNP. *Address:* Brookings Institution, 1775 Massachusetts Avenue North-West, Washington, D.C. 20036 (Office); 2809 Ellicott Street North-West, Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 202-797-6295 (Office); 202-363-7845 (Home).

OKUNIEWSKI, Józef, D.ECON.; Polish politician; b. 5 May 1920, Lubotyń, Poznań Voivodship; s. of Józef and Małgorzata Okuniewski; m. Krystyna Okuniewski 1942; one s.; ed. Łódź Univ.; Agricultural instructor, Wieluń district; worked in timber firm, Warsaw during Occupation; later became headmaster of agricultural school at Tymianka and subsequently lecturer, Agricultural Teachers' Inst., Pszczelin; mem. PUWP 1950-, Deputy mem. Cen. Cttee. 1971-75; Dir. of Univ. Studies, Ministry of Higher Learning 1953-54; subsequently Deputy Prof. Warsaw Univ., then Asst. Prof. and Chair. Faculty of Political Econs. 1961, Extraordinary Prof. 1967-; Under-Sec. of State Ministry of Agric. 1959-70; Minister of Agric. 1970-74; Amb. to Netherlands 1974-; Order of Banner of Labour (1st Class) 1969. *Leisure interests:* photography, tennis. *Address:* Embassy of Poland, Alexanderstraat 25, The Hague, Netherlands.

OKUNO, Seisuke; Japanese politician; b. 12 July 1913, Nara Pref.; s. of Teiji and Toki Okuno; m. 1942; two s.; ed. First High School, Univ. of Tokyo; Chief, Gen. Affairs Section, Yamanashi Pref. Govt. and Kagoshima Pref. Govt. 1938; Officer Dept. of Local Govt., Ministry of Home Affairs 1943; Head of Police Dept., Kochi Pref. Govt. 1947; Head, Finance and Research Divs., Local Autonomy Agency 1949; Dir. Bureau of Taxation, Ministry of Autonomy 1953, Bureau of Finance 1958; Perm. Vice-Minister, Ministry of Autonomy 1963; mem. House of Reps. 1963-; Minister of Educ. 1972-Dec. 1974; Liberal Dem. Party. *Publications:* Several articles on aspects of local government. *Leisure interests:* golf, tennis, a potted plant. *Address:* 5-7-10 Jingumae, Shibuya-ku, Tokyo, Japan. *Telephone:* 03-407-3535.

ÓLAFSSON, Ragnar; Icelandic judge and accountant; b. 2 May 1906, Holtum; s. of Ólafur Ólafsson and Margrét Thordardóttir; m. Kristín Sigrídur Hinriksdóttir 1940; two s. two d.; ed. Univ. of Iceland; mem. legal staff Fed. Iceland Co-operative Socs. 1931-42, mem. Board of Dirs. 1973-; Advocate District and Supreme Courts, Iceland 1944-; Chair. Board of Dirs. Central Bank of Iceland 1973-78; Govt.-apptd. mem. Power Intensive Industry Iceland 1973-; Judge Labour Court 1973-. *Address:* 28 Hörgshlíd, Reykjavík, Iceland. *Telephone:* 15715-22293 (Office).

OLANG', Most Rev. Festo Habakkuk; Kenyan ecclesiastic; b. 14 Nov. 1914, Maseno; m. Eseri Olang' 1937; four s. eight d.; ed. Alliance High School, St. Paul's Theological Coll., Wyclif Hall, Oxford; Teacher Maseno Secondary School 1936-39; on staff Butere Girls' School 1940-45; ordained Deacon 1945; consecrated Bishop 1955; Bishop of Maseno 1961-70; Archbishop of Kenya (Anglican Church) 1970-. *Address:* Imani House, St. John's Gate, P.O. Box 40502, Nairobi (Office); 26 State House Avenue, P.O. Box 40502, Nairobi, Kenya (Home). *Telephone:* Nairobi 28146 (Office); Nairobi 20207 (Home).

OLAV V; King of Norway; b. 2 July 1903; ed. secondary school, Oslo, Norwegian Mil. Acad. and Balliol Coll., Oxford; studied political history and political science: married Princess Märtha of Sweden 1929 (died 1954); one s. two d.; Commdr.-in-Chief, Norwegian Forces, Second World War; succeeded his father, King Haakon VII, 21 Sept. 1957; Hon. K.G., K.T., G.C.B., G.C.V.O. *Address:* Royal Palace, Oslo, Norway. *Telephone:* 44-19-20.

OLCAY, Osman; Turkish diplomatist; b. 17 Jan. 1924, Istanbul; s. of Seyfi and Cezibe Olcay; m. Necla Baran 1946; ed. St. Joseph French Coll., Istanbul, and Faculty of Political Science, Univ. of Ankara; joined Ministry of Foreign Affairs, Turkey 1945; Lieut., Turkish Army 1946; Foreign Ministry 1947; Vice-Consul, London 1948-50, Second Sec., London 1950-52; Chief of Section, Dept. of Econ. Affairs, Ministry of Foreign Affairs 1952-54; First Sec. NATO, Paris 1954, Counsellor and Deputy Perm. Rep. 1958-59; Asst. Dir.-Gen. NATO Dept., Ministry of Foreign Affairs, Ankara 1959-60, Dir.-Gen. 1960-63, Deputy Sec.-Gen. 1963-64; Amb. to Finland 1964-66, to India and Ceylon 1966-68; Deputy Sec.-Gen. of NATO, Brussels 1969-71; Minister of Foreign Affairs March-Dec. 1971; Perm. Rep. to UN 1972-75, to NATO Aug. 1978-. *Address:* Turkish Delegation to NATO, Boulevard Léopold III, 1110 Brussels, Belgium.

OLDENBOURG, Zoé; French (born Russian) writer; b. 31 March 1916, Petrograd (now Leningrad); m. H. Idalie 1948; one s. one d.; ed. Lycée Molière and Sorbonne, Paris; in France 1925-, studied history and literature at the Sorbonne; studied theology, Great Britain 1938; mem. Jury of Prix Fémina 1961-; Prix Fémina for La pierre angulaire (The Cornerstone) 1953. *Publications:* Argile et cendres 1946, La pierre angulaire 1953, Bûcher de Montségur 1959, Les brûlées 1961, Les cités charnelles 1961, Essai historique sur les Croisades 1963, Catherine de Russie 1965, Saint Bernard 1969, La joie des pauvres 1970, L'épopée des cathédrales 1973, Que vous a donc fait Israël 1974, Visages d'un autoportrait 1977. *Address:* 5 rue Isabey, 75016 Paris, France.

OLDENBURG, Claes; American (naturalized) pop artist; b. 28 Jan. 1929, Stockholm, Sweden; s. of Gösta Oldenburg and Sigrid E. Lindfors; m. Pat Muschinski 1960 (divorced 1970); ed. Yale Coll. and Art Inst. of Chicago; Apprentice reporter, City News Bureau, Chicago 1950-52; various odd jobs 1952-53; first group exhbn., Club St. Elmo, Chicago 1953; participated in other local shows, Chicago and Evanston 1953-56; moved to New York 1956; part-time job at Cooper Union Museum Library 1956-61; exhibited in group show, Red Grooms's City Gallery 1958-59; first public one-man show, Judson Gallery, New York 1959; two-man show with Jim Dine (*q.v.*), Judson Gallery Nov.-Dec. 1959; has since participated in numerous exhbns. of contemporary art throughout U.S.A. and Europe; several one-man shows at Sidney Janis Gallery, New York; works included in XXXII Biennale, Venice 1964; IX Bienal do Museu de Arte Moderno, São Paulo 1967; installed Giant Soft Fan in Buckminster Fuller's (*q.v.*) dome for U.S. Pavilion, Expo 67, Montreal 1967; travelling one-man exhbn. sponsored by Museum of Modern Art, New York shown at Tate Gallery, London and other European galleries 1970. *Publications:* Claes Oldenburg, Proposals for Monuments and Buildings 1965-69 1969, Claes Oldenburg, Drawings and Prints 1969, Notes in Hand 1971. *Address:* c/o Sidney Janis Gallery, 15 East 57th Street, New York, N.Y. 10022; and 404 East 14th Street, New York, N.Y. 10009, U.S.A.

OLDENBURG, Richard Erik, A.B.; American museum director; b. 21 Sept. 1933, Stockholm, Sweden; s. of Gösta Oldenburg and Sigrid E. Lindfors; brother of Claes Oldenburg *q.v.*; m. Harriet L. Turnure 1960; ed. Harvard Coll.; Man. Editor, The Macmillan Co. 1964-69; Dir. of Publications, Museum of Modern Art, New York 1969-71; Acting Dir. Museum of Modern Art Jan.-June 1972, Dir. June 1972-. *Leisure interest:* reading. *Address:* The Museum of Modern Art, 11 West 53rd Street, New York, N.Y. 10019 (Office); 447 East 57th Street, New York, N.Y. 10022, U.S.A. (Home). *Telephone:* 212-956-7502 (Office).

O'LEARY, Michael; Irish politician; b. 8 May 1938, Cork; s. of John O'Leary and Margaret McCarthy; ed. Univ. Coll., Cork; Deputy Pres. Nat. Students' Union 1960-61; Educ. Officer, Irish TUC 1962-65; M.P. for Dublin North Central 1965-; spokesman on Industry and Commerce, Labour, Foreign Affairs and Educ. 1965-73; Minister for Labour 1973-77; Deputy Leader, Labour Party; Pres. 2nd European Regional Conf., ILO 1974, Annual Conf. 1976, EEC Council of Ministers for Social Affairs Jan.-June 1975. *Address:* c/o Leinster House, Kildare Street, Dublin 1, Ireland. *Telephone:* 789911.

OLECHOWSKI, Tadeusz, M.A.; Polish diplomatist and politician; b. 10 Jan. 1926, Vilnius; ed. Faculty of Law, Jagiellonian Univ., Cracow and Acad. of Trade, Cracow; Chief of Polish Trade Mission, Rangoon 1955; Commercial attaché, Polish Embassy, Burma 1956; Deputy Dir. Metalexport; with Ministry of Foreign Trade 1958; Commercial Attaché, Rome 1961-64; Vice-Minister of Foreign Trade 1965-69; Amb. to France 1969-72, April 1976-; Minister of Foreign Trade 1972-74; Amb. to Egypt, Yemen and Sudan 1974-76; mem. PUWP. *Address:* Embassy of Poland, 1 rue de Talleyrand, Paris 75007, France. *Telephone:* 468-82-22.

OLESEN, Kjeld; Danish politician; b. 8 July 1932; m.; two s.; employed by J. Lauritzen Shipping Line 1950-55; Chair. Cen. Section, Social Dem. Youth 1954-56; Sec. Union of Urban Co-operative Socs. 1957-58; Sec. to Social Dem. Party in Greater Copenhagen 1958-62; Organizational Sec. to Social Dem. Party 1962; mem. Secr. Danish Social Dem. Youth 1962-67; mem. Exec. Cttee. Workers' Educ. Assn. 1962-67, Social Dem. Party in Greater Copenhagen and Social Dem. Party 1962-66; mem. Danish Railways

Board 1963-66; mem. Folketing 1966-; Minister of Defence 1971-73, of Transport and Public Works 1977-78; Deputy Chair. Social Dem. Party 1973-. *Address:* Socialdemokratiet, Nyropsgade 26, 1602 Copenhagen VV; and Vamdrupvej 54, 2610 Rødovre, Denmark. *Telephone:* 70-94-64.

ØLGAARD, Anders, DR.POLIT.; Danish professor of economics; b. 5 Sept. 1926, Aabenraa; m. Alice Christiansen 1951; three c.; ed. Univ. of Copenhagen; Civil servant, Econ. Secr. 1953-60; Prof. of Econs., Univ. of Copenhagen 1966-; Adviser in Malaysia, Harvard Univ. Devt. Advisory Service 1968-69; mem., Econ. Council 1966-68; Chair. 1970-76. *Publication:* Growth, Productivity and Relative Prices 1966. *Address:* Institute of Economics, University of Copenhagen, 6 Studiestraede, 1455 Copenhagen (Office); 12 Lerbaekvei, 2830 Virum, Denmark (Home). *Telephone:* 01-152166 (Office); 02-851239 (Home).

OLIN, John Merrill, B.S.; American businessman; b. 10 Nov. 1892; ed. Cornell Univ.; Chemical engineer, Equitable Powder Manufacturing Co. 1913; chemical engineer, Western Cartridge Co. 1913, Asst. to Pres. 1914-18, First Vice-Pres. and Dir. 1918-44, and Pres. and Dir. Olin Industries Inc. (consolidation of Western Cartridge Co., Winchester Repeating Arms Co., Olin Corpn. etc.) 1944-54; Chair. of Board, Olin Mathieson Chemical Corpn. (merger of Olin Industries Inc. and Mathieson Chemical Corpn.) 1954-57, Chair. Financial and Operating Policy and Exec. Cttees. 1957-62; Chair. Exec. Cttee. and Dir. Olin Mathieson Chemical Corpn. 1962-63; Hon. Chair. and Dir. Olin Mathieson Chemical Corpn. 1963-69; Hon. Chair. of the Board and Dir. Olin Corpn. 1969-; Pres. and Dir. Ill. State Bank, East Alton; Dir. St. Louis Union Trust Co., First Nat. Bank and Trust Co., Alton; Trustee Wash. Univ. Corpn., St. Louis, Cornell Univ., American Museum of Natural History, Johns Hopkins Univ., Midwest Research Inst.; Dir. World Wildlife Fund. *Address:* Olin Corporation, 7701 Forsyth Boulevard, St. Louis, Mo. 63105 (Office); Box B, Alton, Ill. 62002, U.S.A. (Home).

OLIPHANT, Sir Mark Laurence Elwin, A.C., K.B.E., F.R.S., F.A.A., M.A., PH.D.; British physicist and administrator; b. 8 Oct. 1901, Adelaide, Australia; s. of Harold George Oliphant and Beatrice Fanny Tucker; m. Rosa Louise Wildbraham 1925; one d.; ed. Adelaide Univ., and Trinity Coll., Cambridge; Messel Research Fellow, Royal Soc. 1931; Lecturer and Fellow, St. John's Coll. 1934; Asst. Dir. Research, Cavendish Lab., Cambridge 1935; Prof. and Dir. of Dept. of Physics Birmingham Univ. 1937-50, Vice-Principal Sept. 1948-49; Dir. of post-graduate Research School of Physical Sciences, Australian Nat. Univ. 1950-63; Prof. of Particle Physics 1950-64; Pres. Australian Acad. of Sciences 1954-57; Gov. of S. Australia 1971-76; Hon. Fellow, St. John's Coll., Cambridge 1952, Australian Nat. Univ. 1968-71; Hon. LL.D. (St. Andrew's), Hon. D.Sc. (Toronto, Flinders, Belfast, Melbourne, Birmingham, New South Wales and Adelaide); K.St.J. *Leisure interests:* music, gardening, carpentry. *Address:* 37 Colvin Street, Hughes, A.C.T. 2605, Australia. *Telephone:* 813494.

OLITSKI, Jules, M.A.; American (b. Russian) painter and sculptor; b. 27 March 1922, Snovsk, Russia; s. of late Jevel Demikovsky and of Anna Zarnitsky; m. 1st Gladys Katz 1944 (divorced 1951), one d.; m. 2nd Andrea Hill Pearce 1956 (divorced 1974), one d.; ed. Beaux Arts Inst., N.Y., New York Univ.; Assoc. Prof. of Art, State Univ. Coll., New Paltz 1954-55; Curator New York Univ. Art Educ. Gallery 1955-56; Art Instructor, Co-ordinator Fine Arts Dept., C. W. Post Coll., Long Island Univ. 1956-63; Art Teacher Bennington Coll., Vt. 1963-67; one-man exhbns. of paintings, drawings and sculpture in U.S.A. at Corcoran Gallery, Washington, D.C. 1967, 1974, 1975, Metropolitan Museum of Art, New York 1969, retrospective exhbn. at Museum of Fine Arts, Boston 1973, Galleria dell' Ariete, Milan 1974, Knoedler Contemporary Arts, New York 1974-77, Boston Museum of Fine Art 1977, Galeria Wentzel, Fed. Repub. of Germany 1975, 1977, Hirshhorn Museum, Washington 1977; exhbns. at Galerie Huit, Paris 1950, Kasmin Gallery, London 1964-75, David Mirvish Gallery, Toronto 1964-77, André Emmerich Gallery, New York 1966-77, Zürich 1973-74; numerous group exhbns. in U.S.A., Canada, France, Fed. Repub. of Germany; chosen for Carnegie Int. 1961, 1967, for Venice Biennale 1966; Second Prize Carnegie Int. 1961, First Prize Corcoran Biennal 1967. *Address:* New York 10003, U.S.A.

OLIVECRONA, Herbert, M.D.; Swedish surgeon; b. 11 July 1891, Visby; s. of Axel Olivecrona and Countess Ebba Moerner; m. 1st Ragnhild Hirsch 1922, 2nd Ulla Löfberg 1942; three s. one d.; ed. Uppsala and Stockholm Univs.; Asst., Surgical Clinics of Leipzig, Baltimore and Stockholm 1918-25; Asst. Surgeon-in-Chief, Serafimerlasarettet, Stockholm 1925-35, Dir. 1935-60; Assoc. Prof. of Surgery 1924-35; Prof. of Neurological Surgery, Royal Caroline Inst. 1935-60; set up clinic in Egypt at request of U.A.R. Govt 1961; Hon. M.D. (Athens and Cologne), D.S. (Gustavus Adolphus Coll., St. Peter, Minn.). *Publications:* Die chirurgische Behandlung der Gehirntumoren 1927, On changes of the optic canals in cases of intracranial tumours 1932, On suprasellar cholesteatomas 1932, Die parasagittalen Meningeome 1934, Gefässgeschwülste und Gefässmissbildungen des Gehirns 1936, Chirurgie der Hirntumoren 1940, Tractotomy 1942, Parasagittal meningiomas 1947, Surgical treatment of angina pectoris 1947, Arteriovenous aneurysm of the brain 1948, Hypophysectomy in cancer of the breast 1953, Surgical treatment of intracranial tumours, Vol. 4, Handbuch der Neurochirurgie; numerous articles in various medical journals. *Leisure interest:* golf. *Address:* Karolinska Sjukhuset, Stockholm 60; and Strandvägen 49, Stockholm Ö, Sweden. *Telephone:* 340500/2049 (Office); 671545 (Home).

OLIVEIRA, Gen. Araken de; Brazilian army officer; ed. Escola Militar, Realengo, Command and Gen. Staff School and Catholic Univ.; Instructor, Escola Militar Realengo and Command and Gen. Staff School; Gunnery Officer, then Operations Officer, First Howitzer Battalion, Brazilian Expeditionary Force; with Command and Gen. Staff, Officer in War Minister's Office; promoted to rank of Gen.; Chief, President's Office, Nat. Oil Council, later Pres.; Pres. Petrobrás 1974-78; Commdr. Order of Merit and several other mil. honours. *Address:* c/o Petrobrás, Avenida República do Chile 65, C.P. 809, Rio de Janeiro, RJ, Brazil.

OLIVEIRA, Capt. Euclides Quandt de; Brazilian naval officer; b. 1919, Rio de Janeiro; joined Navy 1941; naval assignments related to electronics and telecommunications; Chair. Nat. Telecommunications Council 1965; Dir. Siemens do Brasil S.A.; Head Telebrás 1972; Minister of Communications March 1974-78. *Address:* c/o Ministério da Comunicação, Esplanada dos Ministérios, Bloco R, Brasília, Brazil.

OLIVER, Covey T., M.A., LL.M., JURIS SCI.DR.; American lawyer, diplomatist and international bank official; b. 21 April 1913, Laredo, Texas; s. of Pheneas Roan Oliver and Jane Covey Thomas; m. Barbara Frances Hauer 1946; two s. three d.; ed. Univ. of Texas and Columbia Univ.; Prof. of Law, Univs. of Tex., Calif. (Berkeley) and Pa. 1936-41, 1949-64, 1966-67, 1969-; U.S. Govt. official (mainly in Dept. of State) 1942-49; Amb. to Colombia 1964-66; Asst. Sec. of State for Inter-American Affairs and U.S. Coordinator of Alliance for Progress 1967-69; U.S. Exec. Dir. IBRD 1969; Carnegie Endowment Lecturer, Hague Acad. of Int. Law 1955, 1974; Hubbell Prof. of Law, Univ. of Pa. 1966-; Special Adviser U.S. Del. to UN Law of the Sea Conf. 1976; mem. Board of Editors American Journal of Int. Law. *Publications:* The Restatement of the Foreign Relations Law of the United States (co-author), The Inter-American Security System and the Cuban Crisis, Law and Politics in the World Community (co-author), Cases and Materials on the International Legal System (co-author); and monographs and articles in legal and foreign affairs periodicals. *Leisure interests:* boating, observance of nature, psycho-diplomacy, cultural anthropology. *Address:* The Law School, University of Pennsylvania, Philadelphia, Pennsylvania 19104; 4210 Spruce Street, Philadelphia, Pennsylvania 19104, U.S.A. *Telephone:* 215-243-7925 (Office); 215-386-9116 (Home).

OLIVER, Roland, PH.D.; British Africanist; b. 30 March 1923, Srinagar, Kashmir; m. Caroline Lineham 1947; one d.; ed. Cambridge Univ.; Lecturer, SOAS., Univ. of London 1948-49, 1950-57, Reader 1958-63, Prof. of African History 1963-; organized first confs. on history and archaeology of Africa, London Univ. 1953, 1957, 1961; founded and edited Journal of African History 1960-73. *Publications:* The Missionary Factor in East Africa 1952, Sir Harry Johnston and the Scramble for East Africa 1957, The Dawn of African History 1961, Short History of Africa (with J. D. Fage) 1962, History of East Africa (with G. Mathew) 1963, Africa since 1800 (with A. Atmore) 1967, Africa in the Iron Age (with B. M. Fagan) 1975, general editor Cambridge History of Africa 8 vols. 1975-. *Address:* c/o School of Oriental and African Studies, University of London, London, W.C.1; Frilsham Woodhouse, near Newbury, Berkshire, RG16 9XB, England. *Telephone:* 0635-201407.

OLIVI, Beniamino, D.IUR.; Italian civil servant; b. 19 April 1925, Treviso; ed. Univ. of Padua, Univ. Inst. of Ca Foscari, Venice; Legal Asst. to Confindustria 1948-50; 1948-50; Judge of First Instance, Milan Tribunal 1950-58; Officer, Directorate-Gen. of Competition, Comm. of EEC 1958-60; Chef de Cabinet to Vice-Pres. Comm. of EEC 1960-61; Spokesman Comm. of EEC 1961-67, Comm. of European Communities 1968-; Adriano Olivetti Prize 1964. *Address:* Spokesman's Group, Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium. *Telephone:* 35-00-40/35-80-40.

OLIVIER, Baron (Life Peer), cr. 1970, of Brighton; **Laurence Kerr Olivier,** Kt.; British actor manager; b. 22 May 1907; s. of the late Rev. G. K. Olivier and Agnes Louise Crookenden; m. 1st Jill Esmond 1930 (divorced 1940), one s.; m. 2nd Vivien Leigh 1940 (divorced 1961); m. 3rd Joan Plowright (*q.v.*) 1961, one s. two d.; ed. St. Edward's School, Oxford; First appearance, Shakespearian play, Stratford 1922; Birmingham Repertory Co. 1925-28; subsequent appearances in London, New York, Paris and Denmark; Old Vic Theatre Co. 1944-45, 1949, toured Australia and New Zealand 1948; Actor-Manager, St. James's Theatre, London 1950-51; Shakespeare Memorial Theatre, Stratford-on-Avon 1955; Dir. Chichester Festival Theatre 1962-65, The National Theatre 1962-73; Hon. D.Litt. (Oxon.), Hon. LL.D. (Edin.), Hon. M.A. (Tuft's); Chevalier, Légion d'honneur; Commdr. Order of Dannebrog (Denmark) and Grand Officer, Ordine al Merito della Repubblica (Italy); Acad. Award 1948; Sonning Prize (Denmark) 1966; Gold Medallion, Swedish Acad. of Literature 1968; Order of Yugoslav Flag with Gold Wreath 1971, Albert Medal, R.S.A. 1976; Honorary Acad. Award 1979. *Stage appearances include:* many Shakespearian and classical plays, The Entertainer, Rhinoceros, Becket, etc.; produced and appeared in Venus Observed, Caesar and Cleopatra, The Broken Heart, Uncle Vanya, etc.; National Theatre appearances include Uncle Vanya, Othello, Master Builder, Love for Love, The Dance of Death, A Flea in Her Ear, The Merchant of Venice, Long Day's Journey into Night, Saturday Sunday Monday, The Party; Dir. Eden's End 1974. *Films include:* Wuthering Heights, Rebecca, Pride and Prejudice, 49th Parallel, Carrie, Beggar's Opera, The Devil's Disciple, Spartacus, The Entertainer, Term of Trial, Khartoum, Othello, The Shoes of the Fisherman, The Dance of Death 1968, Battle of Britain, Oh! What a Lovely War, Three Sisters 1969, David Copperfield, Nicholas and Alexandra, Lady Caroline Lamb, Sleuth, Seven Per Cent Solution 1975, Marathon Man 1975, A Bridge Too Far 1976, Jesus of Nazareth 1976, The Betsy 1977, The Boys from Brazil 1978, A Little Romance 1978, Dracula 1978, Clash of the Titans 1979; produced, directed and played in Henry V, Hamlet, Richard III and The Prince and the Showgirl. *Television appearances include:* John Gabriel, Borkman, The Moon and Sixpence, The Power and the Glory, Long Day's Journey into Night, The Merchant of Venice. World at War (narrator) 1973, Love among the Ruins 1974, Hollywood Series (narrator) 1979; television productions include The Best Play of the Year 19— (a series of plays) 1976, 1977. *Address:* c/o Wheelshare Ltd., 33/34 Chancery Lane, London, WC2A 1EN, England. *Telephone:* 01-836 7932.

OLIVIER, Louis, DR. EN DROIT; Belgian politician; b. 19 July 1923, Bastogne; Local Councillor 1958-; Mayor of Bastogne 1965-; Provincial Councillor 1954-; Vice-Pres. Provincial Council of Luxembourg 1956; Vice-Pres. Soc. de Développement Economique du Luxembourg, Conseil Economique du Luxembourg, Assen. Intercommunale du Luxembourg pour la Valorisation de L'Eau; mem. House of Reps. for Arlon-Marche-Bastogne 1965-, Intercommunale de Développement Economique du Luxembourg; Sec. of State for Inst. Reforms and Admin. (Wallonia) 1973-74; Minister of the Middle Classes 1973-76; Sec. of State for Forestry, Hunting and Fishing (Wallonia) 1974-79; Minister of Public Works 1976-77. *Address:* c/o Chamber of Representatives, Brussels, Belgium.

OLIVIER-LECAMP, Max Jules Alexis Marcel; French journalist; b. 2 March 1914, Le Havre; s. of Maurice Olivier and Germaine Bredaz; m. 1st Anne Vergara 1939 (dissolved), 2nd Pyongyoo Hyun 1954; five d.; ed. Ecole Alsacienne, Paris, Univ. of Paris and Ecole Libre des Sciences Politiques, Paris; Reporter with Havas agency 1937-44; Editor, Agence France-Presse (AFP) 1944-45; Dir. AFP India and Afghanistan 1945-50; war correspondent in Korea and Indochina 1950-54; journalist with Le Figaro 1954-; Prix Pierre Mille 1956; Prix Albert-Londres 1958; Prix Renaudot for Les Feux de la Colère (novel) 1969, Chevalier Légion d'honneur, Croix de guerre, Mil. Cross. *Leisure interests:* palaeography, philology. *Address:* 54 Route des Gardes, 92 Bellevue-Meudon, France. *Telephone:* OBS 5235.

OLLENU, Nii Amaa, G.M.; Ghanaian judge; b. 21 May 1906, Labadi, Accra; s. of Wilfried Kuma and Salome Anekai (née Abbey) Ollenu; m. Alberta Akoley Addo 1968; ed. Accra High School and Middle Temple, London; Teacher, Accra High School 1930-37; called to the Bar 1940; private practice, Ghana 1940-56; Judge, High Court of Ghana 1956-62, Supreme Court 1962-69; Part-time Lecturer, Faculty of Law, Univ. of Ghana 1962-69, Hon. Prof. of Law 1962-67, 1967-72; Speaker, Nat. Ass. 1967-72; Chief Justice 1970-72; Pres. Council, Ghana Acad. of Arts and Sciences 1968-72; Coronation Medal. *Publications:* The Law of Succession in Ghana 1960, Principles of Customary Land Law in Ghana 1962, The Law of Testate and Intestate Succession in Ghana 1966. *Leisure interest:* gardening. *Address:* Parliament House, Accra; 29 Labadi Road, P.O. Box 4240, Accra; No. 3, 5th Circular Road, Cantonments, Accra, Ghana (Home). *Telephone:* 64181 Ext. 19; 65559; 77288 (Home).

OLLOQUI, José Juan de; Mexican diplomatist; b. 5 Nov. 1931, México, D.F.; s. of Fernando de Olloqui and Margarita Labastida de Olloqui; m. Guillermina G. de Olloqui 1962; three s. one d.; fmr. Prof. of Econs. at various Mexican Univs.; served in Banco de México; fmr. Head, Dept. of Banks, Currency and Investment, Secr. of Finance and Public Credit; fmr. Dir.-Gen. of Credit; fmr. mem. Board of Dirs. of several Mexican credit insts. and technical orgs.; Exec. Dir. for Mexico, Barbados, Dominican Repub., Jamaica and Panama, Inter-American Devt Bank 1966-71; Dir. Nat. Stock Comm. 1971; Amb. to U.S.A. 1971-77 (also accred. to Barbados 1973-77); Under-Sec. of Foreign Relations Dec. 1976-. *Leisure interests:* hunting, weight-lifting. *Address:* c/o Secretaría de Relaciones Exteriores, Avenida Ricardo Flores Magón 1, Tlatelolco, México 3, D.F. (Office); Matías Romero 137, México 12, D.F., México (Home). *Telephone:* 526-93-71, 526-84-26 (Office).

OLOITIPITIP, Stanley Shapashina Ole; Kenyan politician; b. 1927, Loitokitok, Kajiado District; ed. Loitokitok and Narok Govt. Schools; Staff Sergeant, E. African Medical Corps. 1942-46; Moran Leader, Masailand 1947-51; Chair. Kajiado Branch, Kenya African Democratic Union (KADU) 1955-60, Nat. Org. Sec. KADU 1961-63; mem. Parl. for Kajiado 1963-69, Kajiado South 1970-; Asst. Minister for Commerce and Industry 1964-69, of Health 1970-74; Minister of Natural Resources 1974-78, of Home Affairs Oct. 1978-; Chair. Kenya African Nat. Union 1965-; Elder of the Burning Spear Mil. Medal. *Address:* Ministry of Home Affairs, P.O. Box 30478, Nairobi (Office); Olgulului, P.O. Namanga, Kenya (Home).

OLPIN, A. Ray, A.B., PH.D.; American physicist; b. 1 June 1898, Pleasant Grove, Utah; s. of Albert Henry Olpin and Alvira Smith; m. Elva Chipman 1922; one s. three d.; ed. Brigham Young Univ., Provo, Utah, and Columbia Univ.; Instructor, Mathematics and Physics, Brigham Young Univ. 1922-24; Asst. in Physics Columbia Univ. 1924-25; mem. Tech. Staff, Bell Telephone Labs. New York 1925-33; Lecturer Brooklyn Polytechnic Inst. 1931-33; Dir. of Research, Kendall Mills, Charlotte, N.C. 1933-39; Prof. and Dir. of Industrial Research, Field Dir. Eng. Experiment Station, and Exec. Dir. Research Foundation, Ohio State Univ. 1939-46; Consultant Anthony Wayne Research Foundation 1944-45; Pres. Univ. of Utah 1946-64, and of Carbon Coll., Price, Utah 1959-64; Pres. Emer. Univ. of Utah 1964; Consultant on Devt. Planning, Seoul Nat. Univ., Korea 1965-66; Assoc. Editor Journal of Applied Physics 1937-38; Man. Editor Science and Appliance 1939-45; Hon. LL.D. Univ. of Utah. *Address:* 102 Business Office Building, University of Utah, Salt Lake City, Utah 84112 (Office); 2431 Beacon Drive, Salt Lake City, Utah 84108, U.S.A. (Home). *Telephone:* 581-7740 (Office); 582-9441 (Home).

OLSEN, Poul Rovsing; Danish composer; b. 4 Nov. 1922, Copenhagen; s. of Alfred Rovsing and Helga Petersen; m. Solange Petit-Dutallis 1950; one s. two d.; ed. Aarhus and Copenhagen Univs., Royal Danish Conservatory of Music, Nadia Boulanger and Olivier Messiaen (Paris); Music critic on Morgenbladet 1945-46, Information 1949-53, Berlingske Tidende 1954-74; in Ministry of Educ. 1949-60; Ethnomusicologist Dansk Folkemindesamling 1960-; Lecturer Univ. of Lund 1967-69, Univ. of Copenhagen 1969-; leader of numerous ethnomusicological expeditions (Greenland, Middle East, India); mem. League of Danish Composers (Pres. 1962-67), State Foundation for the Arts, Pres. 1974-77; mem. Board KODA 1962-, Int. Folk Music Council 1967, Pres. 1977-; mem. Danish Nat. Comm. of UNESCO 1975-; Carl Nielsen Prize 1965, Cavaliere dell' Ordine Al Merito della Repubblica Italiana 1969 and other awards and prizes. *Works include:* ballets: Ragnarok 1948, La Création 1952, The Marriage 1966, The Stranger 1970; opera: Belisa 1964; Two Symphonies 1958, 1966, Symphonic Variations 1953, Piano Concerto 1954, Au Fond de la Nuit 1968, A l'Inconnu 1962, Patet 1966, A Song of Mira Bai 1971, The Planets 1978, etc. *Address:* 6 Birketinget, Copenhagen (Office); Tuborgvej 99, 2900 Hellerup, Denmark (Home). *Telephone:* 01 585800 (Office); 01 626795 (Home).

OLSEN, Trygve; Norwegian politician; b. 11 Nov. 1921, Havøysund, Finnmark; held various posts in fishermen's unions and econ. orgs.; mem. Board of Man., Fat Herring Fishermen's Sales Org.; Minister of Fisheries 1972-73; mem. Labour Party until 1972, now Centre Party. *Address:* c/o Senterpartiet, Arbeidergt. 4, Oslo, Norway.

OLSHANSKY, Mikhail Aleksandrovich; Soviet agronomist and politician; b. 1908; ed. Maslovsky Inst. of Selection and Seed Production; Scientist at All-Union Plant Selection and Genetic Research Inst., Odessa 1928-41, Asst. Dir. 1945-51; Rector Kui-

byshev Agricultural Inst. 1942-45; Academician, All-Union Acad. of Agricultural Sciences 1948-, Vice-Pres. 1951-61, Pres. 1962-64; Minister of Agriculture, U.S.S.R. 1960-61, Cand. mem. Central Cttee. CPSU 1961-66; Order of Lenin, Order of Red Banner of Labour, State Prize laureate. *Address:* All-Union Academy of Agricultural Sciences, 7 Bolshoi Kharitonyevsky pereulok, Moscow, U.S.S.R.

OLSON, Harry F., M.S., E.E., PH.D., D.SC.; American physicist; b. 28 Dec. 1902, Mount Pleasant, Iowa; s. of Frans O. Olson and Nelly Benson Olson; m. Lorene E. Johnson 1935; ed. High School, Univ. and Graduate Univ.; mem. Tech. Staff, RCA Labs. 1928-40, Dir. Acoustical Lab., RCA Labs. 1940-66; Staff Vice-Pres. Acoustical and Electromechanical Research, RCA Labs. 1966-; mem. Nat. Acad. of Sciences; Modern Pioneer Award, Nat. Assn. of Mfrs. 1940; John H. Potts Medal of Audioengineering Soc. 1952; Achievement Award, Inst. of Radioengineers 1954; Samuel L. Warner Award, Soc. of Motion Pictures and Television Engineers 1955; John Scott Medal, City of Philadelphia 1956; John Ericsson Medal, American Soc. of Swedish Engineers 1963; Emile Berhner Award 1965; Silver Medal, Acoustical Soc. of America 1974; several awards from Inst. of Electrical and Electronics Engineers. *Publications:* Acoustical Engineering, Musical Engineering, Dynamical Analogies, Music, Physics and Engineering, Modern Sound Reproduction; over 120 articles in technical journals; holds over 100 U.S. patents. *Address:* RCA Laboratories, Princeton, N.J. 08540 (Office); 71 Palmer Square West, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 609-452-2700 (Office); 609-924-0790 (Home).

OLSON, Horace Andrew (Bud), P.C.; Canadian farmer; b. 6 Oct. 1925, Iddesleigh, Alberta; s. of Carl M. Olson and Alta M. (née Perry); m. Marion Lucille McLachlan; one s. three d.; ed. Iddesleigh and Medicine Hat, Alberta; mem. for Medicine Hat, Canadian House of Commons 1957-58, 1962-72; Minister of Agric. 1968-72; Chair. Alberta Liberal Caucus 1973-74; mem. Senate April 1977-, Chair. Senate Cttee. on Northern Pipeline 1978-; mem. Commonwealth Parliamentary del. to Nigeria 1962, Canadian Parliamentary del. to U.S.S.R. and Czechoslovakia 1965, Econ. Council of Canada 1975-78, Inter-Parliamentary Union del. Bulgaria 1977; Hon. Col. South Alberta Light Horse Regt.; Citation for Distinguished Citizenship, Medicine Hat College 1968; Liberal. *Address:* The Senate, Ottawa, Ontario K1A 0A4 (Office); Iddesleigh, Alberta TOJ 1TO, Canada (Home). *Telephone:* (613) 992-4297 (Office); (403) 898-2511 (Home).

OLSZAK, Wacław, D.SC.(TECH.), D.ENG.; Polish university professor; b. 24 Oct. 1902, Karvina; s. of Dr. Wacław and Maria Olszak; m. Stefania Olszak 1952; one d.; ed. Warsaw, Vienna and Paris Univs.; Dozent Mining Coll., Cracow 1937; Prof. Applied Mechanics, Cracow 1946, at Warsaw Tech. Univ. 1952; Head of Dept. of Mechanics of Continuous Media, Polish Acad. of Sciences 1952; mem. Polish Acad. of Sciences 1954, mem. Presidium 1960; Dir. Inst. of Fundamental Technological Problems 1963-69; Rector Int. Centre for Mechanical Sciences (CISM) Udine, Italy 1969-; Vice-Pres. Int. Assn. for Shell Structures (I.A.S.S.) 1957; Pres. Int. Union of Testing and Research Labs. (R.I.L.E.M.) 1962; Assoc. mem. French Acad. des Sciences 1978; Foreign mem. Acad. of Sciences, Belgrade, Toulouse, Budapest, Halle, Turin, Paris, Sofia, Vienna, Bologna, Royal Swedish Acad. of Tech. Sciences and Finnish Acad. of Tech. Sciences; Hon. mem. many Polish and foreign scientific socs.; prizes for bridge and eng. structures 1935, 1937, 1948, 1953, Polish Nat. Prize 1950, 1955, 1966; Dr. h.c. Tech. Univs. of Warsaw, Cracow, Vienna, Dresden, Toulouse, Liège, Glasgow and New Brunswick, and Mining Acad., Cracow. *Publications:* Research in Applied Mechanics, especially theory of plasticity and theory of structures; Plane Elastic Problems 1934, Prestressed Structures 1955, Non-Homogeneity in Elasticity and Plasticity (Editor) 1959, Recent Trends in the Development of the Theory of Plasticity (with others) 1962, Theory of Prestressed Structures (with others) 1962; Non-Classical Shell Problems (Editor, with A. Sawczuk) 1964, Theory of Plasticity (with others) 1965; Inelastic Behaviour in Shells (with A. Sawczuk) 1967. *Leisure interests:* music, driving. *Address:* International Centre for Mechanical Sciences (CISM), Palazzo del Torso, Piazza Garibaldi 18, 33100 Udine, Italy. *Telephone:* 0432-294989 (Office).

OLSZEWSKI, Jerzy, D.ENG.; Polish politician; b. 24 March 1921; Czestochowa; ed. Silesian Technical Univ., Gliwice; in chemical industry 1949-; Dir. Chemical Factory, Bydgoszcz, subsequently Dir. Factory of Dyeing Industry "Boruta" and Chemical Factory, Oświecim; Dir. Gen., Nitric Industry Assen., Cracow 1965-71; Vice-Chair. Planning Comm. attached to Council of Ministers Feb.-Oct. 1971; Minister of Chemical Industry 1971-74, of Foreign Trade and Maritime Econ. Nov. 1974-; Scientific worker, Dept. of Org. and Production Econs., Silesian Tech. Univ., Gliwice; mem. PUWP 1948-, mem. Cen. Cttee. 1975-; Deputy to Seym 1957-72; Gold and Silver Crosses of Merit 1951, 1952, Knight's Cross of Order Polonia Restituta 1958, Order of Banner of Labour 1st and 2nd Class 1959, 1969, Order of Builders of People's Poland 1974. *Address:* Ministerstwo Handlu Zagranicznego i Gospodarki Morskiej, ul. Wiejska 10, 00-489 Warsaw, Poland. *Telephone:* 21-03.

OLSZEWSKI, Kazimierz; Polish politician; b. 9 Aug. 1917, Trześniowo, Lvov, U.S.S.R.; ed. Lvov Polytechnical Univ.; worked at State Artificial Fibres Factory, Jelenia Góra 1947, later at Design Office of Artificial Fibre Industry Łódź; Dir. of Dept., Ministry of Chemical Industry 1952-55, Vice-Minister of Chemical Industry 1955-59; del. to COMECON, Moscow 1959-61; First Vice-Chair. Cttee. on Econ. Co-operation with Foreign Countries, Council of Ministers 1962-70; Asst. Rep. of Polish Govt at COMECON 1970-71, Perm. Rep. 1975-77, Chair. Exec. Cttee. 1976-77; Minister of Foreign Trade 1971-72; Vice-Pres., Council of Ministers 1972-77; Minister of Shipping 1973-74, of Foreign Trade and Maritime Econ. April-Nov. 1974; Amb. to U.S.S.R. Jan. 1978-; mem. Cen. Cttee. PUWP 1971-; Deputy to Seym 1976-; Order of Banner of Labour (1st Class), Polonia Restituta, Cross of Valour, Order of Builders of People's Poland 1974, etc. *Address:* Embassy of Polish People's Republic, ul. A. Mitskevicha 1, Moscow, U.S.S.R.

OLSZOWSKI, Stefan, M.A.; Polish politician; b. 28 Aug. 1931, Toruń; ed. Włocławek High School, Lódź Univ.; fmr. mem. Polish Pathfinders' Org., Polish Students' Assen., Presidium of Polish Youth Union; mem. Central Board Polish Youth Union 1954-56; later Polish rep. at Int. Union of Students, Prague; Chair. Cen. Council, Polish Students' Assen. 1956-60; mem. Cen. Cttee. Socialist Youth Union 1956-60; Sec. Voivodship Cttee. of PUWP in Poznań 1960-63; Head of Press Bureau, Cen. Cttee. of PUWP 1963-68, mem. 1964-, Sec. 1968-, mem. Political Bureau Dec. 1970-; Minister of Foreign Affairs 1971-; Deputy to Seym; Order of the Banner of Labour (1st and 2nd class), Officer's Cross of Order of Polonia Restituta, etc. *Address:* Komitet Centralny PZPR, ul. Nowy Swiat 6, 00-497 Warsaw, Poland.

O'MALLEY, Desmond Joseph, B.C.L.; Irish politician and solicitor; b. 2 Feb. 1939, Limerick; s. of Desmond J. and Una O'Malley; m. Patricia McAleer 1965; two s. four d.; ed. Crescent Coll., Limerick, Nat. Univ. of Ireland; practised as solicitor 1962; mem. Dáil (House of Reps.) for Limerick East 1968-; Parl. Sec. to Taoiseach (Prime Minister) and to Minister for Defence 1969-70; Minister for Justice 1970-73; Opposition Spokesman on Health 1973-75, on Industry and Commerce 1975-77; Minister for Industry, Commerce and Energy July 1977-; Fianna Fáil. *Address:* Department of Industry, Commerce and Energy, Kildare Street, Dublin 2, Ireland. *Telephone:* (01) 789411.

OMAN, Julia Trevelyan, F.S.I.A.D.; British designer; b. 11 July 1930, London; d. of Charles Chichele Oman and Joan Trevelyan; m. Dr. Roy Strong (*q.v.*) 1971; ed. Royal Coll. of Art; Designer BBC Television 1955-67 (including TV film Alice in Wonderland 1966); designer for theatre: Brief Lives (London and New York) 1967, 1974, Country Dance 1967, Forty Years On 1968, The Merchant of Venice 1970, Othello 1971, Getting On 1971, The Importance of Being Earnest (Burgtheater, Wien) 1976; ballet: Enigma Variations (Royal Ballet, London) 1968; opera: Eugene Onegin (Covent Garden) 1971, Un Ballo in Maschera (Hamburg) 1973, La Bohème (Covent Garden) 1974, A Month in the Country (Royal Ballet, London) 1976, Die Fledermaus (Covent Garden) 1977, Le Papillon (Ashton, Pas-de-Deux) 1977; films: The Charge of the Light Brigade (art dir.) 1967, Laughter in the Dark (art dir.) 1968, Julius Caesar (production designer) 1969, Straw Dogs (design consultant) 1971; exhbns.: Samuel Pepys (Nat. Portrait Gallery) 1970, Hay Fever (Danish TV) 1979; Dir. Oman Productions Ltd.; Silver Medal, Royal Coll. of Art; Royal Scholar, Royal Coll. of Art; elected, Royal Designer for Industry (R.D.I.); Designer of the Year Award 1967. *Publications:* Street Children (with B. S. Johnson) 1964, Elizabeth R. (with Roy Strong) 1971, Mary Queen of Scots (with Roy Strong) 1972. *Address:* c/o London Management, 235/241 Regent Street, London, W1A 2JT, England; c/o Robert Lantz, The Lantz Office, 114 East 55th Street, New York, N.Y. 10022, U.S.A. *Telephone:* 01-734 4192 (London); (212) 751-2107 (New York).

OMAR ALI SAIFUDDIN SA'ADUL KHAIRI WADDIN, H.H. Sultan, D.K., P.S.P.N.B., P.S.N.B., S.P.M.B., D.M.N., D.K. (Kel), D.K. (J), D.K. (Sel.), K.C.M.G.; former ruler of Brunei; b. 1916; ed. Malay Coll., Kuala Kangsar, Perak, Malaya; served as a Govt. official in various depts. in Brunei; First Minister or Grand Vizier and mem. of State Council 1947-50; Sultan of Brunei 1950-67 (abdicated in favour of his son, H.H. Sultan Hassanal Bolkiah, *q.v.*); visited U.K. and Europe 1952, 1953, 1957, 1959, 1963, U.K. and America 1965; on homage to Mecca 1953 and 1962, trip round the world 1965. *Address:* Istana Darul Hana, Brunei.

OMARI, Dunstan Alfred, M.B.E., B.A., DIP. ED.; Kenyan (naturalized 1972) business executive and former civil servant; b. 1922, Newala, Tanzania; s. of Rev. Alphege and Josephine Omari; m. Fidelia Shangali 1962; two s. one d.; ed. St. Joseph's Secondary School, Chidya, St. Andrew's Secondary School, Minaki, Makerere Univ. Coll. and Univ. of Wales (Aberystwyth); Educ. Officer (Broadcasting Duties) 1953-54; District Officer 1955-58, District Commr. 1958-61; Tanganyika High Commr. in the U.K. 1961-62; Perm. Sec., Prime Minister's Office, and Sec. to the Cabinet, Tanganyika 1962; Perm. Sec., President's Office, and Sec. to the Cabinet, Tanganyika 1962-63; Sec.-Gen. E. African Common Services Org. 1964-67, 1967-68 (now called E. African Community); Chair. E. African Currency Board 1964-72; mem. Presidential Comm. of Inquiry into the Structure and Remuneration of Public Service in Kenya 1970-71; Chair. E. African Railways Salaries Review Comm. 1971-72; Chair. Kenya Board of Standard Bank Ltd. 1974-. *Publication:* Talks on Citizenship 1954. *Address:* P.O. Box 25015, Nairobi, Kenya. *Telephone:* Nairobi 333731.

Ó MORÁIN, Dónail; Irish public official; b. 6 Sept. 1923; m. Maire Beaumont 1949; three s. two d.; ed. Coláiste Muire, Dublin, Univ. Coll., Dublin, and King's Inns, Dublin; called to the Bar 1946; Man. Editor of Retail Food Trade Journal 1946-50; Gen. Man., printing and publishing firm 1951-63; Founder,-Gael-Linn (voluntary nat. cultural and social asscn.) 1953, Chair. 1953-63, Dir.-Gen. 1963-; Chair. Convocation of Nat. Univ. of Ireland 1955-; Chair. Inisfree Handknits Group 1965-; mem. Radio Telefis Eireann Authority 1965-70, Chair. 1970-72, 1973-76; mem. Consultative Council, Dept. of Finance 1965-75; Dir. Glens of Antrim Tweed Co. Ltd. 1967-; mem. Irish Comm. for UNESCO 1966-, Irish Film Industry Comm. 1967-69; Chair. Consultative Council to Radio na Gaeltachta (first local Radio service in Ireland) 1971-76. *Leisure interests:* shooting, salmon fishing. *Address:* 32 Sydney Avenue, Blackrock, Dublin, Ireland. *Telephone:* Dublin 880541.

ONANA-AWANA, Charles; Cameroonian politician; b. 1923, Ngoulemekong; ed. Ecole Supérieure, Yaoundé and Ecole nat. de la France d'Outre-Mer, Paris; with the Ministry of Finance 1943-57; Head, Office of Deputy Prime Minister for the Interior 1957-58; Asst.-Dir. Office of Prime Minster Feb.-Oct. 1958; Perm. Sec. French Cameroons, Paris 1958-59; Minister of Finance 1960-61; Del. to the Presidency in charge of Finance, the Plan and Territorial Admin. 1961-65; Sec.-Gen. UDEAC 1965-70; Minister of Planning and Territorial Improvement 1970-72, of Finance 1972-75, Minister Del. to the State Inspectorate and Admin. Reform 1975-; fmr. Dir. Banque Centrale de l'Afrique Equatoriale et du Cameroun; fmr. Gov. IMF; Officier Ordre de la Valeur, Cameroon, Commdr. Légion d'honneur, Ordre de la Rédemption Africaine (Liberia), Ordre Tchadien. *Address:* State Inspectorate, Yaoundé, United Republic of Cameroon.

ONASSIS, Jacqueline Lee Bouvier; b. 28 July 1929, Southampton, Long I., N.Y.; d. of John V. and Janet (Lee) Bouvier; m. 1st John F. Kennedy (Pres. of the U.S.A., 1961-63) 1953 (assassinated 1963), one s. one d. (and one s. deceased); m. 2nd Aristotle Onassis 1968 (died 1975); ed. Vassar Coll., George Washington Univ., U.S.A., and the Univ. of Paris; photographer Washington Times-Herald 1952; initiated and supervised historical reconstruction of décor of the White House 1961-63; Rep. of the late Pres. Kennedy on tour of India 1962; Consultant Viking Publs., New York 1975-77; Assoc. Editor Doubleday and Co. 1978-. *Address:* 1040 Fifth Avenue, at 85th Street, New York, N.Y. 10028, U.S.A.

O'NEIL, Michael Gerald, A.B.; American rubber executive; b. 29 Jan. 1922; ed. Coll. of Holy Cross, and Harvard Univ.; Dir., The Gen. Tire and Rubber Co. 1950-, Asst. to Pres. 1951-57, Vice-Pres. and Exec. Asst. to Pres. 1957-60, Pres. 1960-, Chief Exec. Officer 1977-; served Second World War; official of numerous business and philanthropic orgs. *Address:* The General Tire and Rubber Co., 1 General Street, Akron, Ohio 44329, U.S.A.

O'NEILL, The Hon. Sir Con Douglas Walter, G.C.M.G., M.A.; British diplomatist; b. 3 June 1912, London; s. of Lord Rathcavan; ed. Eton Coll., and Balliol Coll., Oxford; Fellow, All Souls Coll., Oxford 1935-45; called to the Bar 1936; entered Diplomatic Service 1936; served Berlin 1938; resigned from Service 1938; served army 1940-43; with Foreign Office 1943-46; on staff of The Times 1946-47; rejoined Foreign Office 1947; served Frankfurt and Bonn 1948-52; Imperial Defence Coll. 1953; Head News Dept., Foreign Office 1954-55; Chargé d'Affaires, Peking 1955-57; Asst. Under-Sec. Foreign Office 1957-60; Amb. to Finland 1961-63, to EEC 1963-65; Deputy Under-Sec. in charge of Econ. Affairs, Foreign Office 1965-68; Dir. Hill Samuel June 1968-69; Deputy Under-Sec., Foreign Office 1969-72; Leader British Del. to negotiate entry to EEC 1970-72; Chair. Intervention Board for Agricultural Produce 1972-74; Dir. Unigate Ltd 1974-; Dir. Britain in Europe Campaign 1975. *Publication:* Our European Future 1972. *Address:* 37 Flood Street, London, S.W.3, England. *Telephone:* 01-352 2147.

O'NEILL, Thomas Philip ("Tip"); American politician; b. 9 Dec. 1912, Cambridge, Mass.; s. of Thomas P. and Rose Ann (Tolan) O'Neill; m. Mildred Ann Miller 1941; three s. two d.; ed. St. John's High School and Boston Coll.; employed in insurance co., Cambridge, Mass. 1935-36; mem. Mass. House of Reps. 1936-52, Minority Leader 1947-48, Speaker 1948-52; mem. U.S. House of Reps. from Mass. 11th, later 8th District 1953-, fmr. mem. Rules Cttee., Majority Whip 1971-73, Majority Leader 1973-76, Speaker Jan. 1977-; Democrat. *Address:* Rayburn House Office Building, Washington, D.C. 20515, U.S.A.

O'NEILL OF THE MAINE, Baron (Life Peer), cr. 1970, of Ahoghill in the County of Antrim; **Terence Marne O'Neill,** P.C.; British (N. Ireland) politician; b. 10 Sept. 1914; ed. Eton Coll.; Irish Guards 1939-45; M.P. (N. Ireland) 1946-70; Parl. Sec. Ministry of Health 1948-53; Deputy Speaker and Chair. Ways and Means Cttee. 1953-55; Joint Parl. Sec. Home Affairs and Health 1955; Minister of Home Affairs April-Oct 1956, of Finance Sept. 1956-63; Prime Minister (N. Ireland) 1963-69; mem. Comm. on Electoral Reform 1975-76; Dir. S. G. Warburg and Co., Int. Holdings Ltd., Phoenix Assurance; Unionist Party. *Publications:* Ulster at the Crossroads (speeches and writings) 1969, The Autobiography of Terence O'Neill 1972. *Address:* House of Lords, London, S.W.1, England; Lisle Court, Lymington, Hampshire, England. *Telephone:* Lymington 2010.

ONETTI, Juan Carlos; Uruguayan writer; b. 1 July 1909; ed. High School; Editor Marcha (weekly newspaper), Montevideo 1939-42; Editor Reuter Agency, Montevideo 1942-43, Buenos Aires 1943-46; Editor Vea y Lea (magazine), Buenos Aires 1946-55; Man. of advertising firm in Montevideo 1955-57; Dir. of Municipal Libraries, Montevideo 1957; Nat. Literature Prize of Uruguay 1963. *Publications novels:* Elpozo 1939, Tierra de nadie 1941, Para esta noche 1943, La vida breve 1950, Un sueño realizado y otros cuentos (stories) 1951, Una tumba sin nombre 1959, Los adioses 1954, La cara de la desgracia 1960, Jacob y el otro (story) 1961, El Astillero 1961, El infierno tan temido 1962, Tan triste como ella 1963, Juntacaddveres 1965. *Address:* Montevideo, Uruguay.

ONG, Tan Sri Haji Omar Yoke-Lin; Malaysian politician and diplomatist; b. 23 July 1917, Kuala Lumpur; m. Puan Sri Dr. Aishah 1974; two s. one d.; mem. Kuala Lumpur Municipal Council 1952-; co-founder Alliance Party; mem. Fed. Legis. Council 1954-; Malayan Minster of Posts and Telecommunications 1955-56, of Transport 1956-57, of Labour and Social Welfare 1957-59, of Health and Social Welfare 1959-72; M.P. 1959-72; Vice-Pres. Commonwealth Parl. Assn. 1961; Amb. to U.S.A. and UN 1962-64, to U.S.A. 1964-72, also accred. to Brazil 1966-72; Minister without Portfolio 1964-73; Pres. of the Senate 1973-; Chair. Asian Int. Merchant Bankers Bhd., Maju Jaya Industries Sdn. Bhd., Malaysian Oxygen Bhd., Brentnall Bersama (M) Sdn. Bhd., Brentnall Beard (M) Sdn. Bhd., OYL Condair Sdn. Bhd., Omariff Holdings Sdn. Bhd., Syarikat Ong Yoke Lin Sdn. Bhd., OYL Industries Sdn. Bhd., Raza Sdn. Bhd.; Dir. Esso Malaysia Berhad, Hume Industries (Malaysia) Berhad, Malayan Flour Mills Bhd., Socoil Corpn. Bhd.; Chair Malaysian Red Cross Soc. 1959-62; Hon. Order of the Crown of Selangor (1st and 2nd Class), Most Illustrious Order of Kinabulu (1st Class). *Leisure interests:* golf, photography, swimming. *Address:* Parliament House (Dewan Negara), Kuala Lumpur (Office); 44 Pesiaran Drive, Kuala Lumpur, Malaysia (Home).

ONGANÍA, Lt.-Gen. Juan Carlos; Argentine army officer and politican; b. 17 March 1914; ed. Escuela de Guerra; Army career in cavalry and armoured corps; C.-in-C. of Army 1963-65; Pres. of Argentina 1966-70. *Address:* Buenos Aires, Argentina.

ONN, Datuk Hussein bin (*see* Hussein bin Onn).

ONYEAMA, Charles Dadi, LL.B.; Nigerian judge; b. 5 Aug. 1917, Eke, Enugu; s. of Chief Onyeama; m. 1st Susannah Ogwudu 1950, 2nd Florence Wilcox 1966; five s. two d.; ed. King's Coll., Lagos, Achimota Coll., Gold Coast, Univ. Coll., London and Brasenose Coll., Oxford; Cadet Admin. Officer, Nigeria 1944; mem. Legis. Council of Nigeria and Eastern House of Ass. 1946-51; mem. Nigerianization Comm. and mem. Gen. Conf. and Constitutional Drafting Cttee. 1948-50; Chief Magistrate, Nigeria 1952-56; Acting High Court Judge, W. Nigeria 1956-57; High Court Judge, Lagos 1957-64; Acting Chief Justice, Lagos High Court 1961 and 1963; Justice of Supreme Court of Nigeria 1964-66; Judge Int. Court of Justice, The Hague 1967-76. *Leisure interest:* reading. *Address:* 1 Church Road, Asata, Enugu, Nigeria.

ONYONKA, Zachary, PH.D.; Kenyan politician; b. 28 Feb. 1939; ed. Mosocho School, Nyaburu School, St. Mary's School, Yala; Research Fellow, Univ. Coll., Nairobi 1967, Lecturer, Dept. of Econs. 1968-69; M.P. for Kisii 1969-; Minister of Econ. Planning and Devt. 1969-70, of Information and Broadcasting 1970-73, of Health 1973-74, of Educ. 1974-76, of Housing and Social Services 1976-78, for Local Govt. 1978-; Fellow, Int. Bankers' Assn.; mem. Kenya African Nat. Union (KANU). *Address:* Ministry for Local Government, Nairobi, Kenya.

OOKA, Shohei; Japanese writer; b. 6 March 1909, Tokyo; s. of Teisaburo and Tsuru Ooka; m. Harue Kamimura 1939; one s. one d.; ed. Univ. of Kyoto; Translator of French literature, especially Stendhal; soldier and prisoner of war in the Philippines 1944-45; novelist and critic 1948-; teacher at Meiji Univ. 1952-55; visited U.S.A., England and France as Creative Fellow, Rockefeller Foundation 1953-54; Yokomitsu Prize 1940, Yomiuri Prize 1952, Mainichi and Shincho Prize 1961, Mainichi-Geijitsu Prize 1972, Noma Prize 1974, Asahi Prize 1976, Mystery Writers' Union Prize 1978. *Publications:* Translated Alain's Stendhal 1940, Stendhal's Chartreuse de Parme 1949, etc.; novels: Furyoki (Memories of a Prisoner of War) 1949, Musashino Fujin (A Woman of Musashino Plain) 1950, Nobi (Fires of the Plain) 1951, Sanso (Oxygen) 1953, Hamlet Nikki (Diary of Hamlet) 1955, Reite Senki (Battle of Leyte) 1971, Nakahara Chuya (Biography) 1974, Shonen (A Boy) 1975, Jiken (A Trial) 1977. *Leisure interests:* golf, Go. *Address:* 7-15-12 Seijo, Setagaya-ku, Tokyo, Japan.

OORT, Jan Hendrik; Netherlands astronomer; b. 28 April 1900, Franeker; s. of Abraham Hermanus and Ruth Hannah Faber; m. Johanna Maria Graadt van Roggen 1927; two s. one d.; ed. Univ. of Groningen; Asst., Astronomical Lab., Groningen 1921; Research Asst. Yale Univ. Observatory, U.S.A. 1922-24; Astronomer Leiden Observatory 1924; Prof. of Astronomy and Dir. of Observatory, Univ. of Leiden 1945-70; Gen. Sec. Int. Astronomical Union 1935-48, Pres. 1959-61; Foreign mem. of various Acads. of Arts and Sciences; Vetlesen Prize, Columbia Univ. 1966; Hon. Dr. Univs. of Copenhagen, Glasgow, Oxford, Louvain, Harvard, Brussels, Cambridge, Bordeaux, Canberra, Toruń. *Publications:* numerous contributions to learned journals. *Leisure interests:* reading, hiking, skating. *Address:* President Kennedylaan 169, 2343GZ Oegstgeest, Netherlands. *Telephone:* 071-154158.

OPARIN, Aleksandr Ivanovich; Soviet biochemist; b. 2 March 1894, Uglich; m. Nina Oparina; ed. Moscow Univ.; Lecturer, later Prof., Univ. of Moscow 1920-; founder with A. N. Bach of Biochemical Inst. U.S.S.R. Acad. of Sciences 1935, Dir. of the Inst. 1946-; corresp. mem. U.S.S.R. Acad. of Sciences 1939-46, mem. 1946-; mem. U.S.S.R. Peace Cttee., Cttee. on Space Research (COSPAR) 1964; Vice-Pres. World Fed. of Scientific Workers 1952; Pres. Int. Soc. for the study of the The Origin of Life (ISSOL) 1970-77, Hon. Pres. 1977-; mem. Bulgarian Acad. of Sciences 1952, Leopoldina Acad. of Scientific Research 1956, Gen. Ass. Int. Union of Biochemistry 1953, Vice-Pres. 1961; hon. mem. Japanese Biochemical Soc. 1955; corresp. mem. Suomalaisten Kemistien Seura (Finnish Chemical Soc.) 1959; Hon. mem. German Acad. of Science (Berlin); Hon. mem. Acad. of Science of Cuba; Hon. Dr. Nat. Sc. (Friedrich Schiller Univ. Jena) 1958, Hon. Dr. (Poitiers) 1963, (Warsaw); Orders of Lenin (five) and of the Red Banner of Labour, Hero of Socialist Labour 1969, Lenin Prize 1974, Kalinga Prize 1976, and other decorations. *Publications include:* Proizkhoshdenie zhizni (Origin of Life) 1924, Vozniknovenie zhizni na Zemle (Origin of Life on Earth) 1936, 1957, Zhin ee pzizoda proizkhoshednie i razvitie (Life: Its Nature, Origin and Development) 1960, The Chemical Origin of Life 1965, Matter, Life, Intellect 1977. *Address:* Bach Institute of Biochemistry, U.S.S.R. Academy of Sciences, 33 Leninsky Prospekt Moscow, U.S.S.R.

OPEL, John Roberts, B.A., M.B.A.; American data processing company executive; b. 5 Jan. 1925, Kansas City, Mo.; s. of Norman J. Opel and Esther (Roberts) Opel; m. Julia Carole Stout 1953; two s. three d.; ed. Westminster Coll., Fulton, Mo. and Univ. of Chicago; joined Int. Business Machines Corpn. (IBM) 1949, Sales Rep. 1949, Vice-Pres. 1966, Senior Vice-Pres. 1969, Dir. 1972-, Pres. 1974-; Dir. Bank of New York Co. Inc., Pfizer Inc.; Trustee, Westminster Coll., Inst. for Advanced Study, Joint Council of Econ. Educ., Board of Govs. of United Way of America. *Address:* International Business Machines Corporation, Old Orchard Road, Armonk, N.Y. 10504, U.S.A. *Telephone:* (914) 765-1900.

OPLE, Blas F.; Philippine politician; b. 3 Feb. 1927, Hagonoy, Bulacan; s. of Felix Ople and Segundina Fajardo; m. Susana Vasquez 1949; five s. two d.; ed. Philippine public and private schools, Far Eastern Univ. and Manuel L. Quezon Univ., Manila; copy editor and columnist The Daily Mirror, Manila 1950-53; Asst. to Pres. Ramon Magsaysay on labour and agrarian affairs 1954-57; writer and labour leader 1958-64; Head, Propaganda Div., Ferdinand E. Marcos' presidential campaign 1965; Special Asst. to Pres. Marcos and Commr. Social Security System 1966; Sec. of Labour 1967-78, Minister 1978-; Chair. Nat. Manpower and Youth Council 1967-71; mem. Board of Trustees, Land Bank 1968-; Chair. Govt. Group, Int. Labor Conf. 1969-, Pres. Int. Labour Conf. 1975-76; Chair. Asian Labour Ministers' Conf. 1967; various govt. and civic awards. *Address:* 61 Visayas Avenue, Project 6, Quezon City, Philippines. *Telephone:* 98-20-56.

OPPENHEIM, Tan Sri Sir Alexander, S.M.N., Kt., O.B.E., PH.D., D.SC.; British mathematician; b. 4 Feb. 1903, Salford; s. of Harris Jacob Oppenheim and Fanny Ginsberg; m. Beatrice Templer Nesbit 1930 (divorced 1977); one d.; ed. Manchester Grammar School, and Balliol Coll., Oxford; Commonwealth Fund Fellow Chicago 1927-30; Lecturer Edinburgh Univ. 1930-31; Prof. of Math. Raffles Coll. Singapore 1931-42, 1945-49, Deputy Principal 1947 and 1949; Prof. of Math. Univ. of Malaya 1949-57, Dean Faculty of Arts 1949, 1951 and 1953, Acting Vice-Chancellor 1955, Vice-Chancellor 1957-65; Visiting Prof. of Math., Reading Univ. 1965-68, Univ. of Ghana 1968-73, Univ. of Benin, Nigeria 1973-77; prisoner of war in Singapore and Thailand 1942-45; Dean, Prisoner of War Univ. 1942; Pres. Malayan Mathematical Soc. 1951-55, 1957, Singapore Chess Club 1956, Oxford and Cambridge Soc. 1952, 1957; mem. Assn. of Southeast Asian Insts. of Higher Learning 1959-61, Academic Advisory Cttee., Univ. of Cape Coast 1972; Pres. Mathematical Assn. of Ghana 1969-70; Fellow, Royal Soc. of Edinburgh, World Acad. of Art and Science; Alumni Medal, Chicago Univ. Alumni Assn. 1977. *Leisure interests:* chess, bridge, walking, swimming. *Address:* 664 Finchley Road, London, N.W.11, England.

OPPENHEIM, Sir Duncan Morris, Kt.; British tobacco manufacturer and solicitor; b. 6 Aug. 1904; s. of Watkin and Helen Oppenheim (née McKechnie); m. 1st Joyce Mitcheson 1932 (deceased), 2nd Susan Macnaghten 1936 (deceased); one s. one d.; ed. Repton School; Asst. Solicitor Messrs. Linklaters & Paines, London 1929; Solicitor to and Dir. of China Assoc. Co. of British-American Tobacco Co. Ltd. 1934; Asst. Solicitor, British-American Tobacco Co. London 1935, Solicitor 1936-49, Dir. 1943-72, Deputy Chair. 1947-49, Vice-Chair. 1949-53, Chair. 1953-66, Pres. 1966-72; Chair. Tobacco Securities Trust Ltd. 1969-74; Deputy Chair. Commonwealth Devt. Finance Co. Ltd. 1968-74; Chair. Royal College of Art Council 1956-72, Pro-Provost 1967-72; Chair. Council of Industrial Design 1960-72; Dir. Lloyds Bank Ltd. 1956-75, Equity, Law Life Assurance Soc. Ltd. 1966-; Chair. British Nat. Cttee. of Int. Chamber of Commerce 1963-74, Overseas Investment Cttee., CBI 1970-74, Court of Govs., Admin. Staff Coll., Henley 1963-71; Chair. Royal Inst. of Int. Affairs 1966-71; Gov. Repton School 1959-79; mem. Advisory Cttee. Victoria and Albert Museum, London 1966-, Crafts Advisory Cttee. 1971-, Deputy Chair. 1977-; Hon. Dr. and Sr. Fellow, Royal Coll. of Art; Hon. Fellow Soc. of Industrial Artists; Bicentenary Medal, Royal Soc. of Arts 1969. *Leisure interests:* painting, sailing. *Address:* 43 Edwardes Square, London, W.8, England.

OPPENHEIMER, Harry Frederick, M.A.; South African industrialist; b. 28 Oct. 1908, Kimberley; s. of late Sir Ernest Oppenheimer; m. Bridget Denison 1943; one s. one d.; ed. Charterhouse and Christ Church, Oxford; Chair., Anglo-American Corpn. of South Africa Ltd., De Beers Consolidated Mines Ltd.; Chair. or Dir. of over 60 subsidiary and other companies; M.P. 1947-58; Chancellor, Cape Town Univ. 1967-; Hon. D.Econ. (Natal); Hon. LL.D. (Leeds, Witwatersrand and Rhodes). *Leisure interests:* golf, riding, horse racing. *Address:* Brenthurst, Federation Road, Parktown, Johannesburg, South Africa.

OPPENLÄNDER, Karl Heinrich, D.ECON.; German economist; b. 17 Jan. 1932, Dörzbach; ed. Univ. of Munich; entered IFO Inst. for Econ. Research 1958, Head of Dept. 1966, Ordinary Mem. 1972, Pres. 1976-; Lecturer, Univ. of Tübingen 1975, Univ. of Munich 1976-. *Publications:* Die moderne Wachstumstheorie 1963, Der investitionsinduzierte technische Fortschritt 1976. *Address:* IFO Institut für Wirtschaftsforschung, Poschingerstrasse 5, 8000 Munich 80, Federal Republic of Germany. *Telephone:* 089-92-24-279.

OPREA, Gheorghe; Romanian politician; b. 15 April 1927, Tîntea-Băicoi, Prahova County; ed. Polytechnic Inst., Bucharest; Gen. Man., Ministry of Machine Building Industry 1957-62, Deputy Minister 1962-70; alt. mem. Cen. Cttee. Romanian CP 1965-72, mem. Cen. Cttee. 1972-, Counsellor Cen. Cttee. 1970-74, mem. Exec. Political Cttee. Nov. 1974-; mem. Standing Bureau 1974-; Vice-Chair. Supreme Council for Econ. and Social Devt. 1974-; Deputy Chair. Council of Ministers 1974-78; First Vice-Prime Minister 1978-; mem. Grand Nat. Assembly March 1975-. *Address:* Central Committee, Partidul Comunist Român, Bucharest, Romania.

ORCHARD, Peter Francis, M.A., F.B.I.M.; British business executive; b. 25 March 1927, Bromley, Kent; s. of Edward Henslowe and Agnes Marjory Orchard (née Willett); m. Helen Sheridan 1955; two s. two d.; ed. Downside School, Bath, Magdalene Coll., Cambridge; joined De La Rue Company Ltd. 1950; Man. Dir. Thomas De La Rue SA, Brazil 1959-61; Man. Dir. Thomas De La Rue Int. 1962-70; Dir. De La Rue Co. Ltd. 1963-; Chair. Thomas De La Rue Int. 1970-72; Dir. of Manpower, De La Rue Co. 1972-75, Exec. Dir. Security and Graphics Divs. 1975-77, Chief Exec. De La Rue Co. Ltd. 1977-. *Leisure interest:* Court of Assistants, The Drapers Co. *Address:* The De La Rue Company Ltd., 3-5 Burlington Gardens, London, W1A 1DL, England (Office). *Telephone:* 01-734 8020.

OREFFICE, Paul F(austo); B.S.; American company executive; b. 29 Nov. 1927, Venice, Italy; s. of Max and Elena (Friedenberg) Oreffice; m. Franca Giuseppina Ruffini 1956; one s. one d.; ed. Purdue Univ.; joined Dow Chemical Int., Midland, Mich. 1953, Mediterranean Area Sales Man., Milan, Italy 1955-56, Man. Dow Quinica do Brazil, São Paulo 1956-63, Gen. Man. Dow. Int., Spain 1963-65, Gen. Man. Dow Chemical Latin America 1965-67, Pres. Dow Chemical Inter-American Ltd. 1967-69, Financial Vice-Pres. The Dow Chemical Co. 1969-75, Dir. Dow Chemical Co. 1971-, Pres. Dow Chemical U.S.A. 1975-78, Chair. Exec. Cttee. Dow Chemical Co. 1978-, Pres. and Chief Exec. Officer 1978-; Dir. First Midland Bank & Trust Co. 1969, European-American Bank and Trust Co. 1975-, Dow Corning Corpn. 1976-, Mfg. Chemists' Assn. 1977-; Chair. American Industrial Health Council 1977-; mem. Nat. Board of Dirs. Junior Achievement Inc. 1977-; Encomienda del Merito Civil (Spain) 1966; Hon. D.Eng. (Purdue) 1976. *Leisure interests:* tennis, bridge, golf, various other sports. *Address:* The Dow Chemical Company, 2030 Dow Center, Midland, Mich., U.S.A. (Office). *Telephone:* (517) 636-3115.

O'REGAN, (Andrew) Brendan; Irish business executive; b. 15 May 1917, Co. Clare; s. of James and Norah O'Regan; m.; two s. three d.; ed. Blackrock Coll., Dublin; Comptroller, Sales and Catering, Shannon Airport 1943-73; Chair. Bord Failte Eireann 1957-73, Shannon Free Airport Devt. Co. 1959-, State Agencies Devt. Co-operation Org. (DEVCO) 1974-. *Leisure interests:* sailing, riding. *Address:* Shannon International Free Airport, Co. Clare (Office); Fort Henry, Killaloe, Co. Clare, Ireland (Home).

OREJA AGUIRRE, Marcelino; Spanish diplomatist and government official; b. 13 Feb. 1935; entered diplomatic service 1958; Dir. Tech. Office of Minister of Foreign Affairs 1962; fmr. Asst. Dir., Prof. of Foreign Affairs at Escuela Diplomática; mem. Dels. to UN, IMF, IDB, OECD; mem. interministerial cttee. drafting bill for religious freedom; Dir. of Int. Relations, Banco de España 1971-74; Under-Sec. for Information and Tourism 1974, for Foreign Affairs Dec. 1975; Minister of Foreign Affairs July 1976-; Senator by royal appointment June 1977. *Address:* Ministerio de Asuntos Exteriores, Plaza de la Provincia 1, Madrid 12, Spain.

OREK, Osman Nuri; Cypriot lawyer and politician; b. 1925; ed. Turkish Lycée, Nicosia, Univ. of Istanbul and Middle Temple, London; Founder-mem. Cyprus-is-Turkish Assn., London, Chair. 1951-52; Sec. Nicosia Branch, Cyprus Turkish Nat. Union Party 1953-55, Sec.-Gen. 1955-60, Deputy Chair. July 1960-; Deputy Chair. High Council of Evcaf 1956-60; rep. Turkish Cypriot Community at London Conf. 1959 and subsequent Joint Cttee.; Minister of Defence 1959; mem. Exec. Council of Turkish Cypriot Provisional Admin. for Defence 1967-74, concurrently for Internal Affairs 1967-70, and External Affairs 1967-74; mem. Exec. Council of Autonomous Turkish Cypriot Admin. for Vice-Presidency and Defence 1974-75; Vice-Pres. Turkish Federated State of Cyprus (TFSC) Feb. 1975-, Minister of Defence 1975-76; Speaker, TFSC Legis. Ass. 1976-78; Prime Minister 1978-79; independent mem. Legis. Ass. Dec. 1978-; Leader Nat. Unity Party 1978-. *Address:* 10 Ismail Beyoglu Street, Lefkosa, Mersin 10, Turkey (Home).

OREL, Admiral Aleksandr Yevstafiyevich; Soviet naval officer; b. 25 Aug 1908, Leningrad; ed. General Staff Acad.; Merchant marine sailor, secondary technical school student, captain's mate 1924-29; Naval Service 1929-; Commdr. of ships and formations 1941-59; Commdr. Baltic Fleet 1959-67; Chief of Naval Acad. 1967-; mem. CPSU 1937-; Deputy to U.S.S.R. Supreme Soviet 1962-70; Order of Lenin (twice), Order of October Revolution, Order of Red Banner and other decorations. *Address:* Ministry of Defence, Naberezhnaya M. Thorez 34, Moscow, U.S.S.R.

OREM, Charles Reace, B.A., LL.B.; American business executive; b. 23 Aug. 1916, Nashville, Tenn.; s. of Charles and Helen (Adcock) Reace; m. Martha Haley 1945; one d.; ed. Columbia Univ. School of Business Admin., Fordham Univ. School of Law, Univ. of Kentucky, New York Univ. Graduate School of Business and Harvard Univ. Graduate School of Business; with Shell Oil Co. 1939-51; admitted to New York bar 1951; Man. Peat, Marwick, Mitchell & Co. 1952-54; Asst. Treas. Sylvania Electric Products, Inc. 1955-60; with Pickands, Mather & Co. Cleveland 1961-64, during which time he was Vice-Pres. (Finance) and Dir.; Vice-Pres. and Controller, Armour and Co. (now subsidiary of Greyhound Corpn.) 1964-65, Financial Vice-Pres. 1965-67, Sr. Admin. and Financial Vice-Pres. 1967-68, Pres. 1968-71; Dir., Pres. and Chief Exec. Officer Investors Diversified Services Inc. 1971-, Chair., Trustee and Dir. of numerous subsidiaries; mem. Minneapolis Chamber of Commerce, Dir. 1973-. *Address:* Investors Diversified Services Inc., 2900 IDS Tower, Minneapolis, Minn. 55402 (Office); 4904 Merilane Ave., Edina, Minn. 55436, U.S.A. (Home).

ORESCANIN, Gen. Bogdan, LL.M.; Yugoslav diplomatist; b. 27 Oct 1916, Perna; s. of Sima and Marija Orescanin; m. Sonja Dapcevic 1947; ed. Grammar School, Zagreb, Univ. of Zagreb and Belgrade Higher Mil. Acad.; Corps Commdr. and Gen., Nat. Liberation Struggle 1941; Asst. and Deputy Chief of Gen. Staff and Asst. Defence Sec. 1945; Mil. Attaché to U.K. 1952-54; mem. Parl., Fed. Council, Chair. Cttee. for Nat. Defence, Foreign Affairs Cttee., Exec. Board of Yugoslav Group of Interparl. Union; Amb. to People's Repub. of China, Dem. People's Repub. of Korea, Dem. Repub. of Viet-Nam 1970-73, to U.K. 1973-76; Order of the Nat. Hero and many other decorations. *Publications:* Military Aspects of the Struggle for World Peace, National Independence and Socialism, several studies and articles on political and military subjects. *Leisure interest:* literature. *Address:* c/o Federal Secretariat for Foreign Affairs, Kneza Miloša 24, 1100 Belgrade, Yugoslavia.

ORFF, Carl; German composer; b. 10 July 1895, Munich; s. of Heinrich and Paula Orff (née Koestler); one d.; ed. Akademie der Tonkunst, Munich; Prof. and Head of Master Class of Musical Composition, Hochschule für Musik, Munich, until 1960; Head of Orff Inst. at Mozarteum Acad., Salzburg 1961-; mem. Bavarian Acad. of Fine Arts; mem. Swedish Acad., Acad. di Santa Cecilia, Rome, etc.; Dr. h.c.; Orden pour le Mérite (Fed. Repub. of Germany); Prize of the Goethe-Stiftung, Basle 1969. *Compositions:* Carmina Burana, Catulli Carmina, Trionfo di Afrodite, Die Kluge, Der Mond, Antigone, Die Bernauerin, Ödipus der Tyrann, Astutuli, Comoedia de Christi Resurrectione, Ludus de nato Infante mirificus, Prometheus, Schulwerk, De temporum fine comoedia 1973. *Publication:* Carl Orff und Sein Werk Vols. I-IV (autobiographical). *Address:* St. Georgen, 8918 Diessen Ammersee, Federal Republic of Germany.

ORFILA, Alejandro; Argentine diplomatist; b. 9 March 1925, Mendoza; ed. Univ. de Buenos Aires, Stanford and Tulane (New Orleans) Univs.; Sec. Ministry of Foreign Affairs 1946, Moscow 1946; Consul, Warsaw 1947-48, San Francisco 1948-49; Consul-Gen. New Orleans 1949-50; Sec. Washington D.C. 1951-52; Man. José Orfila, Ltda., Mendoza 1952, Dir. of Information, OAS 1953-58; Minister Plenipotenitary, Washington D.C. 1958-60; Amb. to Japan 1960-62; private consultant in int. financial and econ. affairs 1962-73; Amb. to U.S.A. 1973-75; Sec.-Gen. OAS 1975-. *Address:* Organization of American States, Washington, D.C. 20006, U.S.A.

ORGAD, Ben Zion; Israeli composer; b. 1926, Germany; ed. Acad. of Music in Jerusalem and Brandeis Univ., U.S.A.; studied violin with Kinory and Bergman and composition with Paul Ben-Haim and Josef Tal; studied in U.S.A. under Aaron Copland (*q.v.*) and Irving Fine; now Supervisor of Musical Educ., Israel Ministry of Educ. and Culture; Chair. Israel Composers' League; recipient of several awards for compositions. *Compositions include:* cantatas: The Story of the Spies (UNESCO Koussevitsky Prize 1952), Isaiah's Vision; orchestral: Building a King's Stage, Choreographic Sketches, Movements on 'A', Kaleidoscope, Music for Horn and Orchestra, Ballad for Orchestra, Dialogues on the First Scroll; Hatsvi Israel (baritone and orchestra), Suffering for Redemption (mezzo-soprano, choir and orchestra), Out of the Dust (for solo and instruments); Ballada (for violin), Taksim (for harp), Monologue (for viola); works for soloists and orchestra, songs, piano pieces, etc. *Address:* Ministry of Education and Culture, Hadar-Daphna Building, Tel-Aviv (Office); 14 Bloch Street, Tel-Aviv, Israel (Home). *Telephone:* 254122 (Office).

ÖRKÉNY, István; Hungarian writer; b. 5 April 1912, Budapest; s. of Hugo Örkény and Margit Pető; m. Zsuzsa Radnóti 1964; one s. one d.; ed. Tech. Univ. of Budapest; Mil. service, World War II; has written short stories, novels and plays; József Attila Prize 1955, 1967, Kossuth Prize 1973. *Publications short stories:* Tengertánc 1941, Lágerek népe (The Lager People) 1947, Budai böjt (Fasting in Buda) 1948, Idegen föld (Alien Earth) 1949, Ezüstpisztráng (Silver Trout) 1956, Jeruzsálem hercegnője (Princess of Jerusalem) 1967, Nászutasok a légypapiron (Honeymoon on the Fly-Paper) 1967, Egyperces novellák (One Minute Stories 1968, in

French, Minimythes 1971, in German, Der letzte Zug) 1968, Időrendben (In Order of Time) 1971; novels: Házastársak (Consorts) 1951, Rózsakiállitás (The Flower-show 1977); plays: Voronyezs (Voronezh) 1948, Tóték (The Tot Family) 1967, Macskajáték (Cat's Play) 1970, Sötét galamb (Dark Pigeon) 1970, Rekviem egy hadseregért (Requiem for an Army) 1973, Vérrokonok (Kinsfolk) 1974, Pisti a verzivatarban (Pisti in the Holocaust) 1975, Kulcskeresok (Searching the Key) 1976. *Leisure interests:* sailing, swimming. *Address:* II. Pasaréti ut. 39, H-1026 Budapest, Hungary. *Telephone:* 858-517.

ORLANDI CONTUCCI, Corrado, D.IUR.; Italian diplomatist; b. 10 July 1914, Monte Colombo; s. of Antonio and Ginevra (dal Pero-Bertini) Orlandi Contucci; m. Eleonora Ponno 1950; three d.; ed. Univs. of Rome, Cambridge, Tours; entered Foreign Service 1939; joined Cavalry as Lieut. 1940; sent to open Italian Embassy in Washington, D.C. 1945, in Belgrade 1947; Vice-Dir. of Cabinet of Foreign Minister Sforza 1949-51; First Sec. in Del. to NATO 1951-54, Head of Eastern European Office in Political staff of Foreign Minister 1954-58; Minister Counsellor, Cairo 1958-60; Deputy Perm. Rep. to NATO 1960-67; Amb. to Luxembourg 1967-68; Chief of Protocol of Italian Republic 1968-76; Amb. to Fed. Repub. of Germany March 1976-; Grand Cross of Italian Repub., Grand Cross of Order of St. Gregorius Magnus, Grand Cross of Malta, Knight Grand Cross of Victorian Order (U.K.), Grand Cross of Honour (Fed. Repub. of Germany) Grand Officier, Légion d'honneur (France). *Publications:* numerous articles in Affari Esteri. *Address:* 34 Rolandstrasse, 5300 Bonn-Bad Godesberg, Federal Republic of Germany; 24 Corso Vittorio Emanuele 11, Rome, Italy (Home).

ORLANDINI, Sergio; Netherlands airline executive; b. 5 May 1921; ed. Univ. of Rotterdam; joined KLM Royal Dutch Airlines 1951, head, Longrange Planning Bureau 1962-70, Man. Dir. 1970-73, Pres. 1973-. *Address:* Koninklijke Luchtvaart Maatschappij N.V., P.O.B. 7700, 1117 ZL Schiphol Airport, Amsterdam, Netherlands. *Telephone:* 499123.

ORLOV, Georgiy Mikhailovich: Soviet politician; b. 1903; ed. Leningrad Timber Acad.; fmr. engineer, cellulose and paper industry; mem. CPSU 1940-; Minister of Timber Industry of U.S.S.R. 1944-57, of R.S.F.S.R. 1957-58; Deputy Chair. Gosplan, R.S.F.S.R. 1958-60, First Deputy Chair. 1960-62; Chair. State Cttee. for Gosplan for Timber, Pulp and Paper Industries, U.S.S.R. 1962-65; Deputy Chair. U.S.S.R. Council of Ministers State Cttee. for Material and Equipment Supply 1965-; Cand. mem. Cen. Cttee. of CPSU 1952-66; Order of Lenin, Order of Red Banner of Labour. *Address:* State Committee for Material and Equipment Supply of U.S.S.R. Council of Ministers, Moscow, U.S.S.R.

ORMANDY, Eugene, B.A., MUS.D.; American musician; b. 18 Nov. 1899, Hungary; ed. Royal State Acad. of Music, Gymnasium and Univ., Budapest; student of the Royal State Acad. at the age of 5; toured Hungary and later Central Europe, as child prodigy; Head of Master Classes, State Conservatorium of Music, Budapest 1919; went to U.S.A. 1921, naturalized 1927; substituted for Toscanini as Conductor of the Philadelphia Orchestra; Conductor, Minneapolis Symphony Orchestra 1931-36; Music Dir. and Conductor, Philadelphia Orchestra 1936-; Commdr. de la Légion d'honneur (France); Knight Order of Dannebrog (Denmark); Knight of the Order White Rose (Finland); Order of Merit, Juan Pablo Duarte (Dominican Republic); Commdr., Order of the Lion of Finland; Commdr. of Merit (Italy); Hon. Cross for Arts and Sciences (Austria); Sibelius Medal, Presidential Medal of Freedom (U.S. Govt.) and many hon. doctorates and awards from various acads. and univs. in the U.S.A. *Address:* c/o Philadelphia Orchestra, 230 South 15th Street, Philadelphia, Pa. 19102, U.S.A.

ORME, Rt. Hon. Stanley, P.C.; British politician; b. 5 April 1923, Sale, Cheshire; s. of Sherwood Orme; m. Irene Mary Harris 1951; ed. elementary and tech. schools, Nat. Council of Labour Colls. and Workers' Educ. Assn. classes; Shop Steward, Amalgamated Union of Engineering Workers (AUEW) 1949-64; Councillor, Sale Borough Council 1957-65; M.P. for Salford West 1964-; Minister of State, Northern Ireland Office 1974-76, Dept. of Health and Social Security April-Sept. 1976; Minister for Social Security 1976-79; Opposition Spokesman for Health and Social Security June 1979-; Chair. AUEW Parl. Group of Labour M.P.s 1977. *Address:* House of Commons, Westminster, London, S.W.1; 47 Hope Road, Sale, Cheshire, England (Home).

ORMESSON, Comte Jean d'; French author, journalist and international official; b. June 1925; s. of Marquis d'Ormesson; nephew of late Comte. Wladimir d'Ormesson; m. Françoise Béghin 1962; one d.; ed. Ecole Normale Supérieure; Deputy Sec.-Gen. Int. Council for Philosophy and Humanistic studies (UNESCO) 1950-71, Sec.-Gen. 1971; staff of various govt. ministers 1958-66; Deputy Editor Diogenes (int. journal) 1952-72, mem. Man. Cttee. 1972-; mem. Council ORTF 1960-62, Programme Cttee. 1973; mem. Control Comm. of Cinema 1962-69; mem. Editorial Cttee. Editions Gallimard 1972-74; Editor-in-Chief, Columnist, Le Figaro 1974-77; mem. Acad. Française 1973; Grand Prix du Roman (Acad. Française) for novel La gloire de l'empire 1971. *Publications:* L'amour est un plaisir 1956, Du côté de chez Jean 1959, Un amour pour rien 1960, Au revoir et merci 1966, Les illusions de la mer 1968, La gloire de l'empire 1971, Au plaisir de Dieu 1974, Le vagabond qui passe sous une ombrelle trouée 1978; numerous articles in Le Figaro, Le Monde, France-Soir, Paris Match, etc. *Address:* c/o Le Figaro, 37 rue du Louvre, Paris 2e (Office); 10 avenue du Parc-Saint-James, 92200 Neuilly-sur-Seine, France (Home). *Telephone:* 577-16-10.

ORNANO, Comte Michel d'; French politician and administrator; b. 12 July 1924; m. Anne de Contades 1960; one s. one d.; ed. Lycée Carnot, Univ. of Paris; Mayor of Deauville 1962-77; mem. Council on Foreign Trade 1956-, mem. Directing Council 1963-; M.P. 1967-74; Sec. Comm. of Foreign Affairs to Nat. Ass.; Sec.-Gen. Independent Republicans 1974; Minister of Industry and Research 1974-77, of Culture and Environment 1977-78, of Environment and Equipment March 1978-. *Address:* 17 rue Alfred-Dehodencq, 75016 Paris, France.

O'ROURKE, Dennis; American lawyer and business executive; b. 31 Oct. 1914, White Clay, Neb.; s. of Frank L. and Jerene Rebbeck O'Rourke; m. Ruth Rouss 1940; two s. four d.; ed. Nebraska State Teachers Coll. and George Washington Univ. Law School, Washington, D.C.; Attorney, Office of Gen. Counsel, U.S. Dept. of Agric., Washington 1939, rising to Chief, Basic Commodity Div.; Gen. Counsel, Holly Sugar Corpn. 1945-53, Vice-Pres. 1953-63, Pres. and Chief Exec. Officer 1963-67, Chair. and Chief Exec. Officer 1967-69, Dir. 1956-69; Trustee U.S. Beet Sugar Assn. and Dir. The Sugar Assn. 1963-69; Adviser to U.S. dels. to Int. Sugar Confs. Mexico 1959, Geneva 1965; Dir. Nat. Chamber of Commerce 1968-70; mem. Business and Industry Advisory Cttee. OECD 1969-71; U.S. Counsel, Nat. Assn. of Sugar Producers of Mexico 1970–; Partner, Rouss and O'Rourke, Attorneys, Colo. Springs and Wash. 1972-; Pres. ManExec Inc. (management consultancy org.) 1972-; Pres. Colo. Springs Fine Arts Center 1960-62, 1969-71, 1973; Dir. First Nat. Bank of Colo. Springs 1963-; Vice-Chair. and mem. Exec. Cttee. Colo. Public Expenditure Council 1973-77, Dir. 1973-; Chair. Colo. Springs-El Paso County Citizens Cttee. for Local Govt.; mem. Mexico-U.S. Cttee. of Council of Americas 1964-. *Leisure interests:* fly-fishing, performing and plastic arts. *Address:* Lawyers Building, P.O. Box 572, Colorado Springs, Colo. 80901; and 1614 20th. St. N.W., Washington, D.C. 20009 (Office); 8 Heather Drive, Colorado Springs, Colo. 80906, U.S.A. (Home). *Telephone:* 303-473-7758, 202-296-2639 (Office); 303-634-0873 (Home).

OROWAN, Egon, M.A., DR.ING.; American professor emeritus of mechanical engineering; b. 2 Aug. 1902, Budapest, Hungary; s. of Berthold Orowan and Josephine Ságvári; m. Jolan Schonfeld 1941; one d.; ed. Univ. of Vienna and Technical Univ. of Berlin; Asst. Prof. Tech. Univ. of Berlin 1928-33; Research Assoc. Univ. of Birmingham, England 1937-39; Research Assoc. Univ. of Cambridge (Cavendish Lab.) 1939-45, Nuffield Research Fellow 1945-47, Reader in Physics of Metals 1947-50; Prof. of Mechanical Eng., M.I.T., U.S.A. 1951-68, Sr. Lecturer 1968-73, Prof. Emer. 1973-; Fellow, Royal Soc. of London; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Corresp. mem. Göttingen Acad. of Sciences; Dr.Ing. h.c. (Tech. Univ. Berlin); Thomas Hawksley Gold Medal of Inst. of Mechanical Engineers, London 1944, Eugene C. Bingham Medal of American Soc. of Rheology 1959, Carl Friedrich Gauss Medal, Braunschweiger Wissenschaftliche Gesellschaft 1968, Vincent Bendix Gold Medal 1971, Paul Bergsoe Medal, Danish Metal Soc. 1973. *Publications:* Papers in scientific journals and chapters in books. *Leisure interest:* getting acquainted with next field of professional interest. *Address:* Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); 44 Payson Terrace, Belmont, Mass. 02178, U.S.A. (Home). *Telephone:* 617-484-8334 (Home).

ORR, Sir David Alexander, Kt., M.C., LL.B.; British business executive; b. 10 May 1922, Dublin, Ireland; s. of Canon A. W. F. Orr and Grace Robinson; m. Phoebe R. Davis; three d.; ed. High School and Trinity Coll., Dublin; with Unilever 1948-; Marketing Dir., Hindustan Lever, Bombay 1955; mem. Overseas Cttee., Unilever 1960; Vice-Pres. Lever Brothers Co., New York 1963, Pres. 1965; Dir. Unilever Ltd. 1967-, Vice-Chair. 1970-74, Chair. 1974-; Vice-Chair. of Unilever NV 1974; mem. Cttee. to Review the Functioning of Financial Insts. 1976; Vice-Pres. Liverpool School of Tropical Medicine; Trustee Leverhulme Trust; Fellow of Royal Soc. for the Encouragement of Arts, Manufactures and Commerce

1974; Hon. LL.D. (Trinity Coll. Dublin) 1978. *Leisure interests:* books, travel and sport. *Address:* Oakhill, Enton Green, Godalming, Surrey, England. *Telephone:* Godalming 7032 (Home).

ORRICK, William Horsley, Jr.; American government official; b. 10 Oct. 1915; ed. Hotchkiss School, Yale and Univ. of California (Berkeley); admitted to Calif. Bar 1941; Partner, Orrick, Herrington, Rowley and Sutcliffe, San Francisco 1941-61, 1965-74; Asst. Attorney Gen. Dept. of Justice 1961-62; Deputy Under Sec. for Admin., Dept. of State 1962-63; Asst. Attorney Gen. Dept. of Justice 1963-65; Chair. U.S. Del. to OECD Cttee. on Restrictive Business Practices 1963; U.S. District Judge, Northern District of Calif. Aug. 1974-. *Address:* 450 Golden Gate Avenue, San Francisco, Calif. 94102, U.S.A.

ORSZÁGH, Lászlo, C.B.E., PH.D.; Hungarian philologist; b. 25 Oct. 1907, Szombathely; ed. Budapest and Rollins Coll., Florida; Lecturer in English, Budapest Univ. 1942-47; Prof. of English, Debrecen Univ. 1947-50, 1957-69; Visiting Prof. in American Literature, Univ. of Budapest 1969-72; Head Lexicographical Dept., Linguistic Inst. of Hungarian Acad. of Sciences, and Ed. of the Dictionary of the Hungarian Language 1950-62; Ed. Hungarian Studies in English 1963-73; Labour Order of Merit; Diamond Jubilee Medal of London Inst. of Linguists. *Publications:* History of American Literary History Writing, The Rise of the English Novel, Shakespeare, English-Hungarian/Hungarian-English Dictionary, History of American Literature, Introduction to American Studies, American Essays—An Anthology, The English Contribution to the Hungarian Vocabulary. *Address:* Pálffy György u. 12, 1055 Budapest V, Hungary. *Telephone:* Budapest 324-257.

ORTIZ, Rene Genaro; Ecuadorian chemical and industrial engineer; b. 31 Dec. 1941, Quito; s. of Genaro Ortiz and Anita de Ortiz; m. Maria Augusta de Ortiz 1970; two d.; ed. Nat. Polytechnic School, Quito, Univ. of Miami, Tufts Univ. and Harvard Univ.; Marketing Head of Ecuadorian State Petroleum Corpn. (CEPE) 1973-75, Asst. Consultant for CEPE Gen. Man. 1975-78; Chief Adviser to Minister of Natural and Energy Resources and Chief Co-ordinator of Petroleum Policy Advisory Bd., 1975-78; mem. OPEC Econ. Comm. Bd. 1975-78, of Bd. of Govs. 1975-78, Sec. Gen. of OPEC Jan. 1979-; Head del. to Bd. of Latin American Energy Org. 1976-78; mem. Oxford Energy Club 1978-; Hon. Citizen, Cape Canaveral, of Brebad County, Fla.; Exec. of Year, Ecuador 1977. *Publications:* Programmed Instruction for Management Training Centre in Ecuador 1973, Project Management with PERT and CPM 1978. *Leisure interests:* music, tennis, swimming. *Address:* OPEC, Obere, Donaustrasse 93, 1020 Vienna, Austria. *Telephone:* 26 55 11.

ORTIZ DE ROZAS, Carlos; Argentine diplomatist; b. 26 April 1926, Buenos Aires; s. of Alfredo Ortiz de Rozas and Susana del Valle; m. Carmen Sarobe 1952; ed. Univ. de Buenos Aires; entered foreign service 1948; Chargé d'Affaires, Bulgaria 1952-54; Sec. Greece 1954-56; mem. Cabinet, Argentine Ministry of Foreign Affairs 1958-59; Counsellor, Argentine Mission at UN 1959-61; subsequently Dir.-Gen. Policy Dept., Ministry of Foreign Affairs and later Minister at embassies in U.A.R. and U.K.; Chief Rep. to Conf. of Cttee. on Disarmament, Geneva 1969-74; Perm. Rep. to UN 1970-77; Pres. UN Security Council 1971, 1972; Rep. Ad-Hoc Cttee. on World Disarmament Conf. 1974; Chair. Del. of Conf. on Law of the Sea 1973, First (Political and Security) Cttee. of the 29th General Ass. 1974; has held several teaching posts including Prof. of Public Law and Int. Relations, Univ. del Salvador, Buenos Aires (now mem. Board of Dirs.); decorations from Italy, Chile, Brazil, Greece, Japan, Peru, Thailand, Egypt, Austria, Nicaragua and the Republic of Korea. *Address:* c/o Ministerio de Relaciones Exteriores y Cutto, Avenales 761, Buenos Aires, Argentina.

ORTIZ MENA, Antonio, LL.L.; Mexican lawyer, politician and banker; b. 1908, Parral, Chihuahua; ed. Escuela Nacional de Jurisprudencia; leading legal positions, Dept. of Fed. District and office of Attorney-Gen.; Dir.-Gen. of Professions at the Secr. of Public Educ.; during Second World War, mem. of Cttee. for Political Defence of the American Continent and Adviser to Mexican Del. at the Chapultepec Conf.; on Editorial Comms. for the Fed. Law of Civil Procedure, to reform certain Articles of the Constitution; Deputy Dir. Banco Hipotecario Urbano y de Obras Públicas, S.A. 1948-52; Dir.-Gen. Inst. of Social Insurance 1952-58; Vice-Pres. Admin. Council, Int. Assn. of Social Insurance 1955-59; Alt. Del. to Conf. of Ministers of Finance and Economy, Rio de Janeiro 1954, Inter-American Conf. of Insurance, Caracas 1955; Pres. Inter-American Perm. Cttee. of Social Insurance 1955; Sec. for the Treasury and Public Credit 1958-70; Pres. IDB 1971-; numerous honours from Belgium, France, Germany, Yugoslavia, Brazil, Netherlands, Chile, Italy and U.A.R. *Address:* Inter-American Development Bank, 808 17th Street, N.W., Washington, D.C. 20577, U.S.A.

ORTOLI, François-Xavier; French economist; b. 16 Feb. 1925; ed. Hanoi Faculty of Law, and Ecole Nat. d'Administration, Paris; Insp. of Finances 1948-51; Tech. Adviser to the Office of the Minister of Econ. Affairs and Information 1951-53; Technical Adviser, Office of the Minister of Finances 1954; Asst. Dir. to the Sec. of State for Econ. Affairs and Sec.-Gen. Franco-Italian Cttee. of EEC 1955; Head, Commercial Politics Service of Sec. of State for Econ. Affairs 1957; Dir.-Gen. of the Internal Market Div. of EEC 1958; Sec.-Gen. Inter-Ministerial Cttee. for Questions of European Econ. Co-operation, Paris 1961; Dir. of Cabinet to Prime Minister 1962-66; Commr.-Gen. of the Plan 1966-67; Minister of Works 1967-68, of Educ. 1968, of Finance 1968-69, of Industrial and Scientific Devt. 1969-72; Pres. Comm. of European Communities 1972-76; Vice-Pres. for Econ. and Monetary Affairs Jan. 1977-; Pres. Coll. of Europe; Dr. h.c. (Oxford and Athens Univs.); Officier, Légion d'honneur, Médaille militaire, Croix de guerre 1945, Médaille de la Résistance, etc. *Address:* Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium; and 18 rue de Bourgogne, 75007 Paris, France.

ORTONA, Egidio; Italian diplomatist; b. 16 Sept. 1910, Casale, Monferrato; s. of Luigi Egidio and Maria Brizio; m. Giulia Rossi 1935; one s. two d.; ed. Univs. of Turin and Poitiers, London School of Economics; entered diplomatic service 1932; mem. Italian Del. to World Econ. Conf., London 1933; Consul, Cairo and Johannesburg; Sec. of Embassy, London, Chief of Office of Minister of Foreign Affairs 1943; mem. Econ. Mission to U.S.A. 1944; Counsellor, later Minister, Italian Embassy, Washington 1945-58; Permanent Rep. of Italy to UN with Ambassador's rank 1958-61; Pres. UN Security Council 1959-60; Dir.-Gen. of Econ. Affairs, Italian Ministry of Foreign Affairs 1961-66; Sec.-Gen. Ministry of Foreign Affairs 1966-67; Amb. to U.S.A. 1967-75; Pres. XIV Assembly of ICAO 1962, European Conf. on Satellite Communication 1963-64; Pres. Honeywell Information Systems, Italy, Aeritalia. *Leisure interests:* riding and music. *Address:* Via Carlo Dolci, 19 Rome, Italy.

ORUDZHEV, Sabit Ataevich; Soviet politician; b. 1912; mem. CPSU 1939; graduated from Azerbaizhan Industrial Inst. 1936; Cand. of Tech. Sciences 1943, Dr. 1962, Prof. 1966; Corresp. mem. Azerbaizhan Acad. of Sciences 1967; started work as ■ teacher in ■ village 1928, worked as engineer and admin. in oil industry 1936-57; Chair. of Azerbaizhan Sovnarkhoz 1957-59; worked in Gosplan 1959-65; First U.S.S.R. Deputy Minister of the Oil Industry 1965-72; U.S.S.R. Minister of the Gas Industry Sept. 1972-; Cand. mem. Cen. Cttee., CPSU 1976-; mem. of the Supreme Soviet 1954, 1962, 1978; Lenin Prize, State Prize (twice); various other decorations. *Address:* U.S.S.R. Ministry of the Gas Industry, Moscow, U.S.S.R.

OSBORNE, John James; British playwright, actor and producer; b. 12 Dec. 1929, London; m. 1st Pamela Lane 1951 (divorced 1957); 2nd Mary Ure 1957 (divorced 1963); 3rd Penelope Gilliatt (*q.v.*) 1963 (divorced 1968); 4th Jill Bennett 1968 (divorced 1977); 5th Helen Dawson 1978; one d.; ed. state schools and privately. Journalist 1947-48; tour No Room at the Inn 1948-49; actor-manager, Ilfracombe 1951; repertory Leicester, Camberwell, Kidderminster, Derby, Bridgewater, etc.; also appeared London. *Plays:* Look Back in Anger 1956, The Entertainer 1957, Epitaph for George Dillon (with Anthony Creighton) 1958, The World of Paul Slickey 1959, A Subject of Scandal and Concern 1960, Luther 1961, Plays for England 1962, Inadmissible Evidence 1964 (film 1969), A Patriot for Me 1964, A Bond Honoured (trans. of Lope de Vega's La Fianza Satisfecha) 1966, The Hotel in Amsterdam 1968, Time Present 1968, The Right Prospectus 1970, Very Like a Whale 1970, West of Suez 1971, A Sense of Detachment 1972, Hedda Gabler (adaptation) 1972, The Gift of Friendship 1972, A Place Calling Itself Rome 1973, The Picture of Dorian Gray (dramatization of Oscar Wilde story) 1973, The End of Me Old Cigar 1975, Watch It Come Down 1975, Almost ■ Vision 1976; screenplay for Tom Jones 1963; Ms or Jill and Jack (TV play) 1974, You're Not Watching Me Mummy 1978, Try a Little Tenderness 1978 (two plays for TV). *Leisure interests:* music hall, opera, riding. *Address:* 124 Finchley Road, London, N.W.3., England.

OSBORNE, Stanley de Jongh; American businessman; b. 27 March 1905, San José, Costa Rica; s. of Edmund and Lilly de Jongh; m. Elizabeth Ide 1929; one s. two d.; ed. Phillips Acad., Andover, and Harvard Univ.; Dir. Publicity Harvard Athletic Assn. 1927-28; with Old Colony Trust Co., Boston 1929-30; Asst. to Pres. Atlantic Coast Fisheries Co. 1929-30, Treas. 1930-36, 1939-43, Sec. 1932-42, Vice-Pres. 1936-43; Vice-Pres. Eastern Airlines Inc. 1944-50; Financial Vice-Pres. Mathieson Chem. Corpn., Baltimore 1950-54; Exec. Vice-Pres. Olin Mathieson Chemical Corpn. 1954-57, Dir. 1957-64, Pres. 1957-63, Chair. of Board 1963-64; Partner Lazard Frères & Co. 1964-69, Ltd. Partner 1970-; Gov. and Pres. The Soc.

of N.Y. Hosp.; Special Adviser to the Pres. of the U.S. 1963-64; mem. President's Advisory Cttee. (Supersonic Aircraft) 1964-69; fmr. Special Consultant to NASA; Dir. of several cos. *Address:* 1 Rockefeller Plaza, New York, N.Y. 10020 (Office); 1 East End Avenue, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* 212-489-6600.

OSCARSSON, Per Oscar Heinrich; Swedish actor; b. 28 Jan. 1927, Stockholm; s. of Ing. Einar Oscarsson and Theresia Küppers; m. Bärbel Krämer 1960; one s. two d.; ed. Royal Dramatic School. Royal Dramatic Theatre 1947-52, Gothenburg Town Theatre 1953-59, TV-Theatre 1966-67; now works mainly as free-lance film-actor; Best Actor Award, Cannes 1966; New York Critics Award for Best Actor 1968; Silver Hugo Best Actor Award, Chicago Int. Film Festival 1969; appeared on stage in Hamlet 1953, Candida 1961, Waiting for Godot 1963; films: The Doll 1962, My Sister My Love 1965, Hunger 1965, Ole Dole Doff 1967, It's Up to You 1968, Close to the Wind 1970, A Last Valley, Salem Comes to Supper 1971. *Leisure interests:* reading and riding. *Address:* Breviksvägen 194, 135 Ol Tyresö, Sweden. *Telephone:* 770-71-32.

OSHIMA, Nagisa; Japanese film director; b. 1932, Kyoto; ed. Kyoto Univ.; with Shochiku Co. 1954-59; formed own film company 1959; has also directed television films. *Films:* Ai To Kibo No Machi (A Town of Love and Hope) 1959, Seishun Zankoku Monogatari (Cruel Story of Youth) 1960, Taiyo No Hakaba (The Sun's Burial) 1960, Nihon No Yoru To Kiri (Night and Fog in Japan) 1960, Shiiku (The Catch) 1961, Amakusa Shiro Tokisada (The Rebel) 1962, Etsuraku (The Pleasures of the Flesh) 1965, Yunbogi No Nikki (Yunbogi's Diary) 1965, Hakuchu No Torima (Violence at Noon) 1966, Ninja Bugeicho (Band of Ninja) 1967, Nihon Shunkako (A Treatise on Japanese Bawdy Song) 1967, Muri Shinju Nihon No Natsu (Japanese Summer: Double Suicide) 1967, Koshikei (Death By Hanging) 1968, Kaettekita Yopparai (Three Resurrected Drunkards) 1968, Shinjuku Dorobo Nikki (Diary of a Shinjuku Thief) 1968, Shonen (Boy) 1969, Tokyo Senso Sengo Hiwa (He Died After the War, or The Man Who Left His Will on Film) 1970, Gishiki (The Ceremony) 1971, Natsu No Imooto (Dear Summer Sister) 1972, Ai no Corrida (In the Realm of the Senses) 1976, Ai no Borei (Empire of Passion) 1978. *Address:* Oshima Productions, 2-15-7 Akasaka, Minato-ku, Tokyo, Japan.

OSISIOGU, (Isaac Udo) William, PH.D.; Nigerian government official and former professor of pharmacy; b. 3 Nov. 1930, Old Umuahia, Imo State; m.; three c.; ed. Okrika Grammar School, Yaba School of Pharmacy, London Univ. School of Pharmacy and Chelsea Coll., London Univ. Hospital Pharmacist, Bamenda, Cameroon 1953; Lecturer, Yaba School of Pharmacy 1954-63; Lecturer, Univ. of Nigeria at Nsukka 1963, later Prof. until 1975; Fed. Commr. for Water Resources 1975-77, for Aviation 1977-78, for Trade 1978-79. *Publication:* research paper in chemistry and pharmacy. *Address:* Federal Executive Council, Lagos, Nigeria.

OSMAN, Sir (Abdool) Raman (Mahomed), G.C.M.G., C.B.E.; Mauritian fmr. judge; b. 29 Aug. 1902; s. of the late Mahomed Osman; called to the Bar Middle Temple 1925; Senior Puisne Judge, Supreme Court Mauritius 1950-61; Acting Gov.-Gen. Mauritius Aug.-Oct. 1970, Dec. 1971-Feb. 1972, Gov.-Gen. Dec. 1972-Nov. 1977 (retd.); Hon. D.C.L. (Mauritius) 1975. *Leisure interest:* horticulture. *Address:* Le Goulet Terrace, Tombeau Bay, Mauritius.

OSMAN, Ahmed, LL.B., LL.M.; Moroccan diplomatist and politician; b. 3 Jan. 1930, Oujda; m. H.R.H. Princess Lalla Nezha (sister of King Hassan II, *q.v.*) 1965; one s.; ed. Royal High School, Rabat, Univ. of Rabat and Univ. of Bordeaux, France. Head of the Legal Section, Royal Cabinet 1956; joined Ministry of Foreign Affairs 1957; Sec.-Gen. Ministry of Nat. Defence 1959-61; Amb. to Fed. Repub. of Germany 1961-62; Under Sec.-of-State for Industry and Mines 1963-64; Pres. and Gen. Man. Moroccan Navigation Co. 1964-67; Amb. to U.S.A., Canada and Mexico 1967-70; Minister of Admin. Affairs 1970-71; Dir. of Royal Cabinet 1971-72; Prime Minister 1972-79; Parl. Rep. for Oujda 1977-; participated in UN sessions 1957, 1968, 1960, 1961, Conf. on Maritime law 1958, Conf. of the League of Arab States 1961. *Leisure interests:* bridge, sports, reading. *Address:* Cabinet du Premier Ministre, Rabat, Morocco. *Telephone:* 245 54-338 04.

OSMAN, Osman Ahmed, B.SC.; Egyptian civil engineer (retd.); b. 1917, Ismailia; s. of Ahmed Mohamed Osman; m. Samia Ismail Wahbi 1947; four s. one d.; ed. Cairo Univ.; Chair. The Arab Contractors (Osman Ahmed Osman & Co) 1949-73, and of its assoc. companies, Saudi Enterprises, Kuwaiti Eng. Co., The Arab Contractors (Libya), The Libyan Co. for Contracting and Devt., The Osman Ahmed Osman & Co. (Abu Dhabi, Arabian Gulf); Minister of Reconstruction 1973-76, and of Housing 1975-76; mem. People's Ass. 1976-; Hon. LL.D. (Ricker Coll. of North East) 1976; Repub. Medal (1st Class), Soviet Hero of Labour Medal; Chief works undertaken include: (in Egypt) Aswan High Dam, Suez Canal deepening and widening, Port Said Shipyard, Cairo Int. Airport, Salhia reclamation project, High Dam Electric Power Transmission Lines, Giza Bridge and Ramsis Bridge over the Nile; (in Saudi Arabia) Dhahran Airport, Riyadh Mil. Coll., Dammam Mil. Barracks; (in Kuwait) Municipality Centre, Kuwait sewer system, secondary schools, Sabahia roadsand drainage system; (in Libya) Benghazi drainage system, Stadium, and Highway; (in Iraq) Kirkuk Feeder Canal No. 2 and 3; (in Jordan) Khaled Ibn El-Walid Dam and Tunnels; (in Abu Dhabi) Zayed City, Ruler's Palace Kharj Mil. Base and City, Taif Mil. Base, numerous airports, hospitals and land reclamation. *Publication:* The High Dam (lecture) 1966. *Leisure interests:* fishing, football. *Address:* c/o People's Assembly, Cairo, Egypt. *Telephone:* 49988.

OSMAŃCZYK, Edmund Jan; Polish journalist and author; b. 10 Aug. 1913, Jagielno; s. of Ryszard Osmańczyk and Feliksa Szulc; m. Jolanta Klimowicz 1961; one d.; ed. in Warsaw, Berlin and France; Editor of Press Centre, Union of Poles in Germany 1932-39; War corresp. Radio Warsaw 1939; Warsaw underground 1939-44; War corresp. 1945; Corresp. Potsdam Conf., Nuremberg Trials; Perm. Corresp., Czytelnik in Berlin 1945-50; Corresp. Polish Radio Moscow 1956, 1959-60, Diplomatic Corresp. Polish Press Agency (PAP) and Polish Radio Washington 1957-58; Deputy to Seym 1952-61, 1969-; Diplomatic Corresp. for Latin America, PAP and Polish Radio and TV 1961-68; mem. Polish PEN Club and Polish Writers' Union; Chair. Polish Cttee. for Solidarity with Chilean People 1973-; Hon. Dr. rer. pol. (Silesia); Prize of Minister of Culture and Art 1945, State Prize (2nd class) 1955, (1st class) 1978, Prize of Minister of Nat. Defence 1st Class 1972, 1977, Medal for Merit for Country's Defence 1978; Officer's Cross of Polonia Restituta; Order of Builders of People's Poland 1972. *Publications:* Dictionary of the Polish Minority in Germany 1939, Walka jest zwycięska (The Struggle is Victorious) (verse) 1945, Sprawy Polaków (Polish Affairs) 1946, Dokumenty pruskie (Prussian Documents) 1947, Niemcy 1945-1950 (Germany 1945-1950) 1951, Współczesna Ameryka (The Contemporary America) 1960, Ciekawa Historia ONZ 1945-1965 (The Interesting History of UN 1945-1965), 1965, Był rok 1945 . . . (It was a year 1945 . . .) 1970, Nasza Europa (Our Europe) 1971, Polacy spod znaku Rodła (Poles of the Rodlo Sign) (with Helena Lehr) 1972, Encyklopedia spraw miedzynarodowych i ONZ (Encyclopaedia of Int. Affairs and the UN) 1974, Enciclopedia Mundial de Relaciones Internacionales y Naciones Unidas (Spanish: World Encyclopedia of Int. Relations and the UN) 1976, Respublica Polonorum (The Republic of the Poles) 1977. *Address:* Plac Zamkowy 8/5, 00-277 Warsaw, Poland. *Telephone:* 31-57-97.

OSOGO, James Charles Nakhwanga, M.P.; Kenyan teacher and politician; b. 10 Nov. 1932, Bukani; ed. Port Victoria Primary School, St. Mary's High School, Yala, Railway Training School, Nairobi and Kagumo Teachers' Training Coll.; Teacher, Sigalame School 1955, Withur School 1956, Boarding School 1957, Ndenga School 1958, Port Victoria School 1959; Headmaster Kibassanga School 1960, Nangina School 1961-62; Vice-Chair. Kenya Nat. Union of Teachers, Central Nyanza 1958-62; mem. Kenya House of Reps. 1963-; Asst. Minister, Ministry of Agric. 1963-66; Minister for Information and Broadcasting 1966-69; Minister of Commerce and Industry 1969-73, also acting Minister of Agric. 1970; Minister for Local Govt. 1973-74, of Health Nov. 1974-; Chair. Kenya Youth Hostels Assn. 1964-70, Patron 1970-; Elder, Order of the Golden Heart (Kenya), Order of the Star of Africa (Liberia), Grand Cordon of the Star of Ethiopia, Grand Cross of the Yugoslav Flag. *Address:* Ministry of Health, P.O. Box 30016, Nairobi; and P.O. Port Victoria, via Kisumu, Kenya.

OSORIO GARCÍA, Alfonso, LIC. EN DER.; Spanish lawyer and politician; b. Dec. 1923, Santander; ed. Univ. of Oviedo and Gen. Acad. of Air Force; entered Air Force Legal Corps 1947; Legal Adviser, Cen. Air Force Region for 5 years, attaining rank of Capt.; worked in State Legal Service 1953-57, in provincial Finance Depts. of Cuenca and Toledo 1953-57; studied Admin. in U.S.A. 1957; Chair. Board of a group of companies 1957-64; rejoined Air Force Legal Corps. 1961, rank of Major 1962; Sec. Transport Comm. and Maritime Transport Sub-Comm. of Econ. Devt. Planning Org. 1962-64; rejoined State Legal Service 1964; Under-Sec. of Commerce 1965-68; Pres. RENFE (Nat. Railways System) 1968-70; mem. Cortes for Santander 1967-71, Council of the Realm 1969-; co-founder, Grupo Tácito 1973; took part in formation of Unión Democrática Espanola 1975; Minister for Presidential Affairs 1975-77, also Second Deputy Prime Minister 1976-77. *Address:* c/o Ministerio de la Presidencia, Madrid, Spain.

OSSOLA, Rinaldo; Italian central banker; b. 8 Nov. 1913, Lecco; ed. Bocconi Univ., Milan, and London School of Econs. Foreign

Rep. Offices of Banca d'Italia in London, Lisbon, Paris; Head of Research Dept., Int. Econ., Banca d'Italia, later Econ. Adviser 1967-69, Deputy Man. Dir. 1969-75, Man. Dir. 1975-76; Chair. Group of Ten Deputies 1975; Alt. mem. Interim Cttee. of IMF 1974, Alt. Gov. for Italy 1975-76; Alt. mem. Board of Dirs., BIS 1975-76; Deputy mem. Cttee. of Cen. Bank Govs. of EEC 1975-76; Vice-Pres. Istituto Mobiliare Italiano 1975-76; Minister of Foreign Trade 1976-79; Grand Officier, Légion d'honneur (France). *Publications:* La Liberazione del movimento dei capitali nell' ambito del Mercato Comune 1959, Export Credits to Under-developed Countries on a Multilateral Basis 1959, Il problema della liquidità internazionale, oggi 1964, Nouvelles réserves monétaires internationales 1969, The European Community at the Crossroads 1970, Towards New Monetary Relationships 1971, The Future of Sterling: a Logical Approach 1971, Convertibility, Multilateralism and Freedom 1972, Reflections on New Currency Solutions 1972, Il ruolo delle banche centralia nel funzionamento e nella regolazione del mercato delle eurovalute 1972, Emphasis on World Growth in Liquidity Overlooks Many Nations Reserve Problems 1975, The Collective Management of Floating Rates 1975. *Address:* Ministerio per il Commercio con l'Estero, Rome, Italy.

OSSWALD, Albert; German politician; b. 16 May 1919, Wieseck, nr. Giessen; m; Town Councillor 1949; Mayor of Giessen 1954; Minister of Econs. and Transport, State Govt. of Hesse 1963, subsequently Minister of Finance; Minister-President of Hesse 1969-76; mem. Social Democratic Party, mem. Exec. Cttee. 1968-; Chair. Admin. Board, Hessische Landesbank-Girozentrale until 1974. *Leisure interests:* hiking, fishing, swimming, and games. *Address:* 62 Wiesbaden, Abeggstrasse 39, Federal Republic of Germany.

OSTERBROCK, Donald E., PH.D.; American astronomer; b. 13 July 1924, Cincinnati, Ohio; s. of William C. Osterbrock and Elsie W. Osterbrock; m. Irene Hansen 1952; one s. two d.; ed. Univ of Chicago; Instructor Princeton Univ. 1952-53; Instructor, then Asst. Prof. Calif. Inst. of Technology 1953-58; Asst. Prof., then Assoc. Prof., Univ. of Wis. 1958-61, Prof. of Astronomy 1961-73, Chair. Dept. of Astronomy 1967-68, 1969-72; Letters Editor, Astrophysical Journal 1971-73; Prof. Univ. of Calif., Santa Cruz, and Dir. Lick Observatory 1972-; Hill Family Prof., Univ. of Minn. 1977-78; Guggenheim Fellow 1960-61, Nat. Science Senior Foundation Fellow 1968-69; Assoc., Royal Astronomical Soc. 1976; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Wisconsin Acad. of Sciences, Arts and Letters. *Publications:* Astrophysics of Gaseous Nebulae 1974, numerous scientific papers in Astrophysical Journal and Publications of the Astronomical Society of the Pacific, etc. *Leisure interests:* drama, hiking, conservation. *Address:* Lick Observatory, University of California, Santa Cruz, Calif. 95064, U.S.A. *Telephone:* 408-429-2991.

OSTERRIETH, Frederick; Belgian merchant and company director; b. 1903; Hon. Pres. Antwerp Chamber of Commerce; Pres. Anglo-Belgian Ferry Boats; Vice-Pres. Belgian Railways; Dir. Bangue de Bruxelles and Banque Belge d'Afrique; Pres. Office de Récupération Economique (O.R.E.); Del. to ICC; fmr. Vice-Pres Office Belge du Commerce Extérieur. *Address:* Markgravestraat 12, Antwerp, Belgium.

OSTHOFF, Hans-Werner, PROF.DR.JUR.; German business executive; b. 11 Feb. 1911, Berlin; s. of Leopold Osthoff and Elisabeth Benteler; m. Inge Schmidt 1940; one s. one d.; ed. bank apprenticeship in Berlin, Univ. of Berlin; mem Exec. Board Wirtschaftsvereinigung Eisen und Stahlindustrie Düsseldorf 1958; mem. Scientific Council of the Fed. Govt. 1970; Pres. Saaländische Wirtschaftsvereinigung Eisen und Stahl 1971; Pres. Verband der Eisen und Metallindustrie des Saarlandes 1972; Chair. Exec. Cttee. Stahlwerke Röching-Burbach GmbH 1972-74; Hon. Prof. Faculty of Law and Econs. Univ. of the Saar; Grosses Bundesverdienstkreuz. *Address:* 662 Völklingen, Am Kirschenwälchen 38, Federal Republic of Germany. *Telephone:* 06898/102180.

OSTROWER, Fayga; Brazilian (b. Polish) painter and engraver; b. 14 Sept. 1920, Łódź, Poland; m. Heinz Ostrower 1941; one s. one d.; ed. Fundação Getúlio Vargas, Rio de Janeiro. Lecturer in Theory of Composition and Analysis, Museum of Modern Art, Rio de Janeiro 1954-70, Univ. Federal de Minas Gerais 1966-70; John Hay Whitney Lecturer, Spelman Coll., Atlanta 1964; mem. Jury for Bienal of São Paulo and Nat. Show of Fine Arts, Rio de Janeiro; Vice-Pres. Brazilian Cttee., Int. Assen. of Plastic Arts; numerous one-man exhbns. and works in collections in the Americas and Europe; Hon. mem. Accad. delle Arti del Disegno, Florence; numerous prizes including awards at São Paulo Bienal in 1955, 1957, 1961, 1963, Venice Biennale 1958, 1962, Venezuela Biennale 1967, Rio de Janeiro City Award 1969, II Biennale Internazionale della Grafica, Florence 1970; Grand Int. Prize Venice; Chevalier Order of Rio Branco 1972. *Publications:* Criatividade e Processos de Criação (Creativity and Creative Processes) 1977. *Leisure interest:* art. *Address:* Avenida Rui Barbosa 532, ap. 1001, Rio de Janeiro, RJ, Brazil. *Telephone:* 225-1709.

OSTROWSKI, Dr. Włodzimierz; Polish biochemist; b. 21 Oct. 1925, Sosnowiec; s. of Joseph and Maria Ostrowski; m. Alexandra Skwarczyńska 1951; two s.; ed. Faculty of Medicine, Jagiellonian Univ. and Medical Acad., Cracow; Doctor 1959-61, Docent 1961-69, Assoc. Prof. 1969-; Corresp. mem. Polish Acad. of Sciences 1973-, mem. Presidium 1975-, Chair. Cttee. of Biochemistry and Biophysics; Dean, Faculty of Medicine, Medical Acad., Cracow 1969-72, Head, Dept. of Physiological Chem. 1963-72, Dir. Inst. of Medical Biochemistry 1972-; Visiting Research Prof., Dept. of Biochemistry, State Univ. of New York 1966-67, 1972-73; expert of WHO 1978-; mem. Editorial Staff Folia Biologica, Materia Medica Polona and Przegląd Lekarski (Medical Review); mem. Polish Chem. Soc., Polish Biochemical Soc., Polish Lab. Diagnostics Soc., A.A.A.S.; mem. Board of European Org. of Cellular Biology 1978-; State Prize, 3rd Class 1957, 2nd Class 1958, Gold Cross of Merit 1969, Minister of Health and Social Welfare Prize, 1st Class, Chivalric Cross of Polonia Restituta and others. *Publications:* Electrophoretic Methods in Biochemistry and Clinical Investigations 1970, Practical Manual for General and Physiological Chemistry 1973, Selected Methods in Clinical Chemistry 1974, Flavins and Flavoproteins, Physicochemical Properties and Function 1977 and numerous articles in Polish and foreign languages. *Address:* Ul. Jaracza 12 m. 6, 31-143 Cracow, Poland. *Telephone:* 231-73.

OTAIBA, Mana Saeed al-, M.SC.; United Arab Emirates economist; b. 15 May 1946, Abu Dhabi; m.; five c.; ed. Univ. of Baghdad. Chair. of Board, Abu Dhabi Nat. Oil Co.; mem. Abu Dhabi Planning Board; Pres. Abu Dhabi Dept. of Petroleum; Chair. of Board, Abu Dhabi Gas Liquefaction Co.; Minister of Petroleum and Mineral Resources Dec. 1973-; mem. Board six oil cos. in Abu Dhabi; has travelled on State visits, etc. throughout Arab countries, Western Europe, U.S.A., Canada. *Publications:* The Abu Dhabi Planning Board, The Economy of Abu Dhabi, Organization of the Petroleum Exporting Countries, OPEC and the Petroleum Industry. *Leisure interests:* poetry, hunting, fishing. *Address:* Ministry of Petroleum and Mineral Resources, P.O. Box 59, Abu Dhabi, United Arab Emirates. *Telephone:* 62810, 61051.

OTANI, Sachio, B.ARCH.; Japanese architect; b. 20 Feb. 1924, Tokyo; s. of Morisuke and Yuko Otani; m. Yoshiko Otani; one c.; ed. Univ. of Tokyo. Architectural designer under Dr. Kenzo Tange 1946-60; Lecturer in Architecture, Univ. of Tokyo 1955-64; Assoc. Prof. of Urban Eng., Univ. of Tokyo 1964-73, Prof. of Urban Design 1973-; works include Kojimachi area (of Tokyo) redevelopment plan 1960-64, Tokyo children's cultural centre 1961-63 and Kyoto Int. Conf. Hall 1963-66. *Address:* Department of Urban Engineering, Faculty of Engineering, University of Tokyo, 1-3-7 Hongo, Bunkyo-ku, Tokyo (Office); 15-22-3 Shoan, Suginami-ku, Tokyo, Japan (Home). *Telephone:* 333-6708.

OTERO, Alejandro; Venezuelan artist; b. 7 March 1921; ed. School of Fine Arts, Caracas; early portraits in expressionist impasto, then landscapes in yellow, ochre and blue until shared studio with Pascual Navarro in Paris 1945-48; transition from figurative to abstract art through still lifes 1945-48; participated in exhbn. Les Mains Eblouies, Galerie Maeght 1947; returned to Venezuela and presented one-man exhbns. at Museum of Fine Arts, Caracas 1949; Editor Los Disidentes after return to Paris 1950; turned to optical art and collages 1951; executed monumental comms. for Univ. City of Caracas 1952-55; series of abstract paintings Colour-Rhythms 1955-60; returned to Paris 1960-64; Vice-Pres. Inst. of Culture and Fine Arts, Caracas 1964-; collages from newspaper cuttings, in gay colours 1964-; Retrospective Exhbn. Signals, London, 1966; other one-man exhbns. in Washington, D.C., Caracas, Venezuela, and Klagenfurt, Austria; numerous awards and honours. *Address:* Institute of Culture and Fine Arts, Caracas, Venezuela.

OTERO DE NAVASCUÉS, Márqués de Hermosilla, **José María;** Spanish scientist; b. 16 March 1907, Madrid; s. of Santiago and María Otero de Navascués; m. María Teresa Domínguez 1939; seven s. six d.; ed. San Fernando Navy Ordnance School, Madrid Univ., Eidgenössische Technische Hochschule, Zürich, Technische Hochschule, Berlin. Head, Navy Optical Lab. 1934-36, Optics Div., Nat. Physical Lab. 1940-46; Assoc. Dir., Naval Research Lab. 1942-47, Dir. 1945-55; Prof. Navy Ordnance Graduate School 1947-55; Pres. Real Sociedad Española Fisica y Quimica 1954-58; Vice-Pres. Spanish UNESCO Cttee. 1953-57, Int. Comm. of Optics 1953-59; Vice-Pres. Nuclear Energy Bd. 1951-58; Pres. and Chair., Spanish Nuclear Energy Comm. 1958; Dir. Inst. of Optics "Daza de Valdés"

1946-67, Chair. Tech. Admin. Board 1967-; Fellow, Spanish Royal Acad. of Sciences 1945-, Perm. Sec. 1968-; mem. Board of Govs. IAEA 1969, Chair. 15th Gen. Conf. 1971; mem. Exec. Cttee. Spanish Nat. Council for Scientific Research 1947-; Chair. Spanish Nat. Council of Physics 1950; Pres. European Nuclear Energy Agency (OECD) 1961; Exec. Vice-Pres. European Atomic Energy Soc. 1960-62, Pres. 1962-64; Vice-Pres. Bureau Int. des Poids et Mesures 1964-68, Pres. 1968; mem. of Board, Centre Européen de Recherches Nucléaires; many Spanish and foreign awards. *Publications:* Research papers on Physics (optics) and Nuclear Energy. *Leisure interests:* history, golf. *Address:* Real Academia de Ciencias Exactas, Fisicas y Naturales, Valverde 22-24, Madrid, Spain.

OTHMAN AS-SAID, Mohamed Ben; Libyan politician; b. Oct. 1922; ed. Libyan religious and Arabic schools. Teacher 1942-43; in Liberation Movement; Head of Fezzan Del. in Legis. Ass. 1950-51; Rep. for Fezzan, UN Council for Libya 1951; Minister of Health, Fed. Govt. 1951-58, of Econ. Affairs Feb.-Oct. 1960; Prime Minister Oct. 1960-63; Deputy 1964; private business 1964-; Order of Independence (First Class). *Address:* Geraba Street 6, Tripoli, Libya.

OTHMAN BIN WOK; Singapore journalist, politician and diplomatist; b. 8 Oct. 1924, Singapore; m. Che Dah Mohd Noor 1949; one s. three d.; ed. Telok Saga Malay School, Raffles Inst. and London School of Journalism; worked on Utusan Melayu as reporter and Deputy Editor 1946-63; mem. People's Action Party 1954-; M.P. for Pasir Panjang Constituency 1963; Minister for Social Affairs 1963-65; Minister for Culture and Social Affairs 1965-68; Minister for Social Affairs 1968-77; Amb. to Indonesia July 1977-; Capt. People's Defence Force. *Address:* Embassy of Singapore, 23 Jalan Proklamasi, Jakarta, Indonesia.

OTHMER, Donald Frederick, PH.D.; American chemical engineer and eductor; b. 11 May 1904, Omaha, Neb.; s. of Frederick George and Fredericka Darling (Snyder) Othmer; m. Mildred Jane Topp 1950; ed. Ill. Inst. of Tech., Chicago, and Univs. of Nebraska and Michigan. Devt. Engineer Eastman Kodak Co. and Tennessee Eastman Corpn. 1927-32; Prof. Polytechnic Inst. of New York 1932, Head Dept. of Chemical Eng. 1937-61, Sec. Graduate Faculty 1948-58, Distinguished Prof. 1961; consulting chemical engineer to numerous companies and govt. depts. in U.S. and abroad incl. U.S. Army, Chemical and Ordnance Corps, and Scientific Advisory Board, U.S. Navy, Special Devices Div., Depts. of State and Interior, Office of Saline Water, UN, WHO, UNIDO, U.S. Dept. of Health, Educ. and Welfare, Nat. Materials Advisory Board, Nat. Research Council, Delaware River Basin Comm., leading financial institutions, etc.; Fellow, American Assn. for Advancement of Science, New York Acad. of Sciences, Chair. Eng. Section 1972-73, American Soc. Mechanical Eng., American Inst. of Chemists, American Inst. of Chemical Engineers (Dir. 1956-59); mem. American Chemical Soc., Japan Soc. of Chemical Engineers, Nat. Panel of Arbitrators, American Arbitration Assn., Soc. de Chimie Industrielle (Pres. American Section 1973-74), Soc. Chemical Industry, American Soc. of Eng. Educ., Newcomen Soc., etc.; Dir. Engineers Joint Council 1956-59, Chemurgic Council, Chemists' Club, Pres. 1973-76; inventor and licensor (over 110 U.S. and many foreign patents) of methods, processes and equipment in manufacture of chemicals, solvents, synthetic fibres, acetylene, wall-board, petroleum refining, fermentation, desalination of seawater, pollution abatement, solar energy utilization, pipeline heating, solvents, plastics, refrigeration, wood utilization, acetic acid, evaporation, heat transfer, petrochemicals, pigments, eng. equipment, salt, pharmaceuticals, distillation, sugar refining, synthetic fuels, pulping liquor recovery, extractive metallurgy of aluminium, titanium, zinc, etc.; regent and trustee of various hospitals and univs.; Lecturer in Argentina 1969, Canada 1950, 1971, Czechoslovakia 1962, 1969, France 1968, Germany, Hon. Del Achema, Frankfurt 1958, 1961, 1964, 1967, 1970, 1973, 1976, 1979, Greece 1962, India 1952, 1971, Iran 1971, 1973, Japan 1955, Romania 1970, Kuwait 1971, Poland 1964, 1967, 1969, 1973, Puerto Rico 1965, Switzerland 1948, Turkey 1969, U.A.E. 1975, 1976, Yugoslavia 1963, 1970, U.S. Army War Coll. 1964, ASTM 1966, TAPPI 1966, New York Acad. of Sciences 1971; Hon. Prof. Concepción Univ. 1951; Hon. Dr. Eng. Univ. of Nebraska 1962, Polytechnic Inst. of New York 1977, N.J. Inst. of Tech. 1978; Hon. mem. Deutsche Gesellschaft für Chemisches Apparatewesen, Barber-Coleman Award 1958, Tyler Award 1958, Honour Scroll AIC 1970; Hon. life mem. N.Y. Acad. of Sciences 1974; Hon. Life Fellow, Inst. of Chem. Eng. (London) 1979; 1st Distinguished Service Award, Assn. of Chemists and Chemical Engineers 1975, Golden Jubilee Award, Ill. Inst. of Tech. 1975, Chemist's Pioneer Award AIC 1977, Perkin Medal, Soc. of Chemical Industries 1978, Murphree Award, American Chem. Soc. and Exxon Corpn. 1978, Professional Achievement Award Ill. Inst. of Tech. 1978. *Publications:* Over 320 articles in technical press; Editor Fluidization, co-Editor Kirk-Othmer Encyclopaedia of Chemical Technology (17 vols. 1947-60; Vols. 1-24, 2nd edn. 1963-70; Vols. 1-3, 3rd edn. 1978), Co-author Fluidization and Fluid Particle Systems 1960, Adviser, Perry's Chemical Engineer's Handbook, Tech. Editor UN Report, Technology of Water Desalination 1964, Editorial Board Desalination. *Leisure interests:* forestry, collecting old maps and books. *Address:* 333 Jay Street, Brooklyn, New York 11201 (Office); 140 Columbia Heights, Brooklyn, N.Y. 11201, U.S.A. (Home). *Telephone:* MA5-1845 (Office); 643-5120 (Home).

O'TOOLE, Peter Seamus; Irish actor; b. 2 Aug. 1932, Connemara, Co. Galway; m. Siân Phillips; two d.; ed. Royal Acad. Dramatic Art; office boy, later reporter for Yorkshire Evening News; Nat. Service as signalman, Royal Navy; studied at Royal Acad. of Dramatic Art; joined Bristol Old Vic Theatre Co., playing 73 parts 1955-58; West End debut in musical play Oh, my Papa 1957; toured England in play The Holiday; appeared in The Long, the Short and the Tall 1959; Stratford season 1960, playing Shylock, Petruchio, and Thersites; filmed Laurence of Arabia 1960; stage appearances in Pictures in the Hallway 1962, Baal 1963, Ride a Cock Horse, Waiting for Godot 1971, Dead Eyed Dicks 1976, Present Laughter 1978; Bristol Old Vic Theatre Season 1973; inaugurated Britain's Nat. Theatre Co.; appeared with Abbey Theatre Co. in Waiting for Godot, Man and Superman 1976; Artistic Dir., North American Tour of Royal Alexandra Theatre Co. playing Present Laughter and Uncle Vanya 1978. *Films include:* Kidnapped 1959, The Day they Robbed the Bank of England 1959, Lawrence of Arabia 1960, Becket 1963, Lord Jim 1964, The Bible 1966, What's New Pussycat? 1965, How to Steal a Million 1966, Night of the Generals 1967, Great Catherine 1967, The Lion in Winter 1968, Goodbye Mr. Chips 1969, Brotherly Love 1970, Country Dance 1970, Murphy's War 1971, Under Milk Wood 1972, The Ruling Class 1972, Man of La Mancha 1972, Rosebud 1974, Man Friday 1975, Foxtrot 1975, Rogue Male (TV) 1976, Caligula 1977, Power Play 1978, Stuntman 1978, Zulu Dawn 1978. *Address:* 98 Heath Street, London, N.W.3, England.

OTTAVIANI, H.E. Cardinal Alfredo, D.IUR.UTR., TH.D., PH.D.; Italian ecclesiastic; b. 29 Oct. 1890, Rome; ed. Pontifical Roman Seminary and Pontifical Inst. of Canon and Civil Law, Rome; ordained priest 1916; created Cardinal by Pope Pius XII 1953; Pro-Sec. Sacred Congregation of the Holy Office 1953-59, Sec. 1959-68, titular Archibishop of Berrea 1962; mem. Sacred Congregation de Propaganda Fide, of the Consistory and of Extraordinary Ecclesiastical Affairs; mem. Supreme Tribunal of the Apostolic Segnatura, Pontifical Comm. for the Authentic interpretation of the Code of Canon Law; Pres. Pontifical Comm. "de Doctrina fidei et morum" 1962. *Publications:* Compendium Iuris Publici Ecclesiastici 1956, Institutiones Iuris Publici Ecclesiastici 1958, Il Baluardo. *Address:* Piazza del Santo Uffizio 11, 00193 Rome, Italy. *Telephone:* 6982.

OTTINA, John R., PH.D.; American education executive; b. 5 Nov. 1931, Los Angeles; s. of Louis and Mary Maga Ottina; m. Mollie Ottina 1975; three s.; ed. Univ. of California, Univ. of Southern California; teacher, Secondary School, Los Angeles 1954-56; teacher, Adult Evening Programme, Los Angeles 1956-58; mathematical analysis, Lockheed Aircraft, Los Angeles 1956-58; Vice-Pres. System Devt. Corpn. Santa Monica 1958-69; Exec. Vice-Pres., Computer Systems Div., King Resources Co., Chair. and Pres. Worldwide Information Systems (subsidiary co.), Los Angeles 1969-70; Deputy Commr. for Devt. U.S. Office of Educ. 1970-71, Deputy Commr. for Planning Evaluation and Man. 1971-72; Acting U.S. Commr. of Educ. 1972-73; U.S. Commr. of Educ. 1973-74; Asst. Sec. for Admin. and Man., Dept. of Health, Educ. and Welfare 1974-. *Publications:* numerous papers on planning and devt. and on computer man. *Address:* Department of Health, Education and Welfare, 330 Independence Avenue, S.W., Washington, D.C. 20201, U.S.A.

OTTO, Frei P(aul), DR.ING.; German architect; b. 31 May 1925, Siegmar; s. of Paul and Eleonore Otto; m. 1952; one s. four d.; ed. Technische Universität, Berlin. Dir., Inst. für Leichte Flächentragwerke, Univ. of Stuttgart 1964-; Visiting Prof. Washington Univ., St. Louis, Yale Univ., Univ. of Calif. (Berkeley), M.I.T., and Harvard Univ. 1958-62; mem. Akad. der Künste, Berlin; Hon. Fellow American Inst. of Architects; Hon. Dr. Arts and Arch. (Washington Univ. of St. Louis); Berlin Art Prize 1967, Prix Perret (Union Int. des Architectes) 1967, Bonatzpreis, Stuttgart 1971, Kölner Kunstpreis 1971, Thomas Jefferson Medal and Prize, Univ. of Va. 1974. *Major works:* German Pavilion Expo, Montreal 1967, Conference Centre, Mecca, Saudi Arabia 1967, roof structure of Olympic Sports Stadium, Munich 1972, Multihalle Herzogenried, Mannheim 1975. *Publications:* Das hängende Dach 1954, Zugbeanspruchte Konstruktionen, Vol. 1 1962, Vol.2 1965, Editor of series IL1-15 on lightweight structures. *Leisure interest:* gardening. *Address:* 725 Leonberg 7 Warmbronn, Berghalde 19, Federal Republic of Germany. *Telephone:* 0711-7843599 (Office); 07152-41084 (Home).

OTTONE, Piero; Italian journalist; b. 3 Aug. 1924, Genoa; s. of Giovanni Battista and Vittoria Ottone; m. Hanne Ottone 1958; one s. one d.; ed. Univ. of Turin. Reporter, Corriere Ligure 1945; Reporter, Gazzetta del Popolo 1945-58, London corresp. 1948-50, Bonn corresp. 1950-53; London and Moscow corresp., Corriere della Sera 1953-61, Special Corresp. in Italy 1962, Ed.-in-Chief 1968; Ed. Secolo XIX 1972-77; Man. Dir. La Repubblica Nov. 1977; Gen. Man. Mondadori Nov. 1977-; Palazzi Prize for Journalism 1973. *Publications:* Gli industriali si confessano 1965, Fanfani 1966, La nuova Russia 1967, De Gasperi 1968, Potere economico 1968. *Address:* c/o Mondadori, Segrate, Milan, Italy.

ÖTÜKEN, Adnan; Turkish librarian; b. 1911, Mamastin; m. Sabiha Ötüken 1935; ed. Lycée and Univ. of Istanbul, and Staatsbibliothek, Berlin. Asst. Turkish Language and Literature Dept., Univ. of Istanbul 1940; Dir. of Publs., Acting Asst. Dir.-Gen. of Higher Educ., and Asst. Dir.-Gen. of Fine Arts, Ministry of Educ. 1952-54; Lecturer in Library Science, Univ. of Ankara; mem. Exec. Cttee. Turkish Nat. Comm. of UNESCO, and Exec. Board Turkish Librarians Assen.; Dir. Turkish Nat. Library 1960-65; Under-Sec. for Cultural Affairs, Ministry of Educ. 1965-67; Lecturer of Turkish Language and Lit., Lycée Teachers' Training Coll., Ankara, 1967-; Gen. Sec. Turkish-Iraqi Standing Cttee. of Cultural Agreement; fmr. Turkish Cultural Attaché in Germany. *Publications:* Bibliyotek bilgisi ve bibliyografi (Library Science and Bibliography) 1940, Istanbul Universitesi Yayimlari Bibliyografyasi (Bibliography of the Publications of the University of Istanbul) 1941, Seçme eserler bibliyografyass. 1. cilt (Selected Bibliography, Vol. 1) 1946, Millî Kütüphane kurulurken (Establishing the National Library) 1946, Istanbul Universities Yayimlari Bibliyografyasi, 1933-45 (Bibliography of the Publications of the Univsity of Istanbul, 1933-45, with Acaroğlu) 1947. Dünya edebiyatindan tercümeler. Klăsikler Biblyografyasi, 1940-48 (Bibliography of classical and modern works translated and published by Turkish Ministry of Education, 1940-48) 1947, 2nd edn. 1940-50 1952, Millî Kütüphane Nasil Kuruldu (How the Turkish National Library was founded) 1955, Türk Dilimim Basına Gelenler 1968, Tri Igin Türkge Dersleri 1968, Iki Yılda 600 den Fazla Yazı 1968, Yeniden 645 Yazi 1969. *Address:* Memeviş sok 80/A, Kavakidere, Ankara, Turkey (Home).

OTUNGA, H.E. Cardinal Maurice: Kenyan ecclesiastic; b. Jan. 1923, Chebukwa; ordained priest 1950; consecrated titular Bishop of Tacape 1957; Bishop of Kissii 1960; titular Archbishop of Bomarzo 1969; Archbishop of Nairobi 1971-; created Cardinal by Pope Paul VI 1973; Dir. Castrense for Kenya. *Address:* Archbishop's House, P.O. Box 14231, Nairobi, Kenya.

OUEDDEI, Goukouni; Chad politician and former opposition leader; formed the Second Army of the Front de Libération Nationale du Tchad (FROLINAT) 1972; head of Northern Armed Forces Command Council 1977-; Chair. Revolutionary Cttee., Popular Armed Forces of FROLINAT March 1978-; Chair. Provisional State Council of Chad after Kano peace agreement March-April 1979, in charge of Information; Minister of State for the Interior in Shawa Govt. April 1979-. *Address:* Ministère de l'Intérieur, N'Djamena, Chad.

OUÉDRAOGO, Gérard Kango; Upper Voltan politician; b. 19 Sept. 1925, Ouahigouya. Rep. to French West African Fed. 1952; Deputy to French Nat. Assembly 1956-59; co-founder Mouvement Démocratique Voltaïque; mem. Parl. 1957-65; Amb. to U.K. 1961-66; Adviser, Ministry of Foreign Affairs; Pres. Union Démocratique Voltaique 1970-74, 1977-; Prime Minister 1971-74. *Address:* Union Démocratique Voltaïque, Ouagadougou, Upper Volta.

OUELLET, Hon. André, P.C., B.A., LL.L.; Canadian lawyer and politician; b. 6 April 1939, St. Pascal, Quebec; s. of Dr. Albert Ouellet and Rita Turgeon; m. Edith Pagé 1965; two s. two d.; ed. Pensionnat St. Louis de Gonzague, Quebec Seminary, Ottawa and Sherbrooke Univs.; Mem. of Parl. for Papineau 1967-; Parl. Sec. to Minister of Nat. Health and Welfare; Postmaster Gen. 1972-74; Minister of Consumer and Corporate Affairs 1974-76, for Urban Affairs 1976-79, of Public Works 1978-79; Liberal. *Leisure interests:* tennis, swimming, squash, hockey, reading, films and collecting works of art. *Address:* 2285 Virginia Drive, Ottawa, Ont., Canada. *Telephone:* 996-1625 (Office) 733-2310 (Home).

OUIMET, J. Alphonse, C.C., B.A., B.ENG.; Canadian communications executive and engineer; b. 12 June 1908, Montreal; s. of J. Alphonse Ouimet and Marie Blanche Geoffrion; m. Jeanne Prévost 1935; one d.; ed. St. Mary's Coll., Montreal and McGill Univ. Research Engineer, Canadian Television Ltd. 1932-33, Research Engineer and Dir. Canadian Electronics Co. 1933-34; Research Engineer Canadian Broadcasting Corpn. (C.B.C.), Ottawa 1935-36, Operations Engineer, Montreal 1937-39, Gen. Supervisor of Eng. 1939-40, Asst. and later Chief Engineer 1941-51, Asst. Gen. Man. 1951-52, Gen. Man. 1953-58, Pres. 1958-68; Chair. Telesat Canada 1969-; Fellow Inst. of Radio Engineers; mem. Eng. Inst. of Canada, Int. Television Cttee., Ministerial Advisory Cttee. on Telecommunications and Canada 1978-; Hon. Degrees from Laval Univ. and Univs. of Montreal, Acadia, Saskatchewan, McGill, Ottawa and Sherbrooke, Royal Mil. Coll. of Canada, Int. Emmy Directorate Award 1977; Int. Communications Soc. Public Service Award 1978, and several other awards. *Address:* 227 Lakeview Avenue, Pointe Claire 720, P.Q., Canada. *Telephone:* 697-1922.

OUKO, Robert John; Kenyan administrator and politician; b. 31 March 1932, Kisumu; s. of Erasto and Susanah Seda; m. Christabel Akumu Odolla 1965; one s. four d.; ed. Ogada School, Kisumu, Nyangori School, Kakamega, Siriba Coll., Haile Sellassie I and Makerere Univs.; Teacher 1952-55; worked in Kisii District, Ministry of African Affairs 1955-58; Asst. Sec. Foreign Affairs Dept., Office of the Prime Minister 1962-63, Senior Asst. Sec. 1963; Perm. Sec., Ministry of Foreign Affairs 1963-64, Ministry of Works 1965-69; E. African Minister for Finance and Admin. 1969-70, for Common Market and Econ. Affairs 1970; Minister of Econ. Planning and Community Affairs Oct. 1978-; Pres. African Assen. for Public Admin. and Management 1971-74; mem. E. African Legis. Assembly; Fellow, Kenya Inst. of Man.; Hon. LL.D. (Pacific Lutheran Univ.) 1971. *Publications:* essays on admin. in professional journals; co-author of univ. textbook on managements. *Leisure interests:* reading, music, hunting. *Address:* P.O. Box 48935, Nairobi, Kenya. *Telephone:* Nairobi 27411.

OURISSON, Guy, DR.SC., PH.D.; French chemist; b. 26 March 1926, Boulogne-sur-Seine; s. of Jacques Ourisson and Colette (née de Bosredon); m. 1st Paula Baylis 1950 (deceased 1958), 2nd Nicole Heiligenstein 1959; one s. two d.; ed. Ecole Normale Supérieure, Paris, Harvard Univ.; Maître de Conférences, Univ. Louis Pasteur, Strasbourg 1955-58, Prof. of Chem. 1958-, Pres. of Univ. Louis Pasteur 1971-75; Pres. of many scientific cttees. in France; Chair. Publications Cttee., IUPAC 1973-77, Sec.-Gen. 1975-; Regional Ed. Tetrahedron Letters 1965-; Scientific Ed. Bulletin de la Soc. Chimique de France 1975-, Chem. Research 1977-; Chevalier, Légion d'honneur; Officier, Ordre national du Mérite; Officier des Palmes académiques; mem. Acad. Leopoldina (Halle), Danish Acad. of Sciences; awards from Chemical Socs. of France, Fed. Repub. of Germany, Belgium, U.K. U.S.A.; Hon. mem. Chemical Socs. of Belgium, U.K., Switzerland. *Publications:* about 250 on chem. and on ethics of science; several books on chem. of natural products. *Leisure interests:* nature, manual work, bonsai, reading, people. *Address:* Institut de Chimie, 1 rue Blaise Pascal, F67008 Strasbourg (Office); 2 rue Calmette, Mundolsheim, F 67450, France (Home). *Telephone:* (88) 61-48-02; (88) 20-01-026 (Home).

OUSMANE, Sembene: Senegalese writer and film-maker; b. 1 Jan. 1923, Ziguinchor; Plumber, bricklayer, apprentice mechanic; served in Europe in World War II; docker in Marseille; studied film production in U.S.S.R.; Founder Ed. first Wolof language monthly, Kaddu; first prize for novelists at World Festival of Negro Arts, Dakar 1966; numerous int. awards. *Films:* Borom Sarret 1963, Niaye 1964, La Noire de ... 1966, Mandabi 1968, Taaw 1971, Emitai 1971, Xala 1974, Ceddo 1977. *Publications:* novels: Le Docker Noire 1956, O Pays mon Beau Peuple 1957, Les Bouts de Bois de Dieu 1960, Voltaïque 1962, L'Harmattan 1964, Vehi - Ciosane suivi du Mandat 1966, Xala 1974, Fat Ndiay Diop 1976, Dernier de l'Empire 1979. *Address:* P.O. Box 8087 YOFF, Dakar, Senegal.

OUTZE, Børge; Danish editor; b. 18 March 1912, Odense; s. of late Oluf Outze and Cecilie Larsen; m. Ruth Lillevang 1935; two d.; Journalist in Odense 1928-36, for Nationaltidende, Copenhagen 1936-43; chief of Danish underground movement News Service; Editor Information (daily newspaper) 1945-; awarded Croix de guerre with Silver Star, for services in underground movement, Kt. of the Order of Dannebrog, Berlingske Tidende Prize, Ebbe Munck Prize; mem. Danish PEN Club. *Publications:* Denmark during the German Occupation 1945, Danmarks Frihedskamp (with Ebbe Munck) 1946, Spidser (with Erik Seidenfaden) 1948, Danmark under den anden Verdenskrig I-IV 1962-67, Sådan begyndte det 1970, and translations. *Address:* Store Kongensgade 40, Copenhagen K; and Amager Strandvej 164, 2300 Copenhagen, Denmark. *Telephone:* 14-14-26 (Office).

OVANDO CANDÍA, Gen. Alfredo; Bolivian army officer and politician; b. 6 April 1918, Cobija; s. of Máximo Ovando and Mercedes Candía; m. Elsa Omiste; ed. Colegio Militar del Ejército and Escuela Superior de Guerra; Commissioned 1936, Brig. Gen. 1959-62, Div. Gen. 1962-64, Army General 1964-; fmr. Battalion Commdr. Escuela Superior de Guerra; Chief of Studies, Escuela de Estado Mayor; Military Attaché, Uruguay and Paraguay; Dir.-Gen. Studies and Planning of the Army; Dir. of Planning, Ministry of

Defence; Co-Pres. of Bolivia 1965-66; Chief of Staff, Commdr. of the Army, C.-in-C. of Armed Forces and Pres. of Bolivia Sept. 1969-Oct. 1970; Amb. to Spain 1970-71; Leader of Bolivian Revolution Front. *Address:* c/o Ministerio de Relaciones Exteriores y Culto, Plaza Murillo-Ingari, La Paz, Bolivia.

ÓVÁRI, Miklós; Hungarian politician; b. 24 Aug. 1925, Budapest; ed. Budapest Univ. of Liberal Arts; Teacher, Party School 1948-49, Party Acad. 1949-58; in charge of Agitation and Propaganda Dept., Hungarian Socialist Workers' Party (HSWP) Cen. Cttee. 1958-61; successive appointments as Head of Section of Depts. of Science, Culture and Public Educ. 1961-66; Head of Depts. of Science, Culture and Public Educ. 1966-70; mem. Cen. Cttee., HSWP 1963-, Sec. Cen. Cttee. 1970-, mem. Politburo 1975-, Head Agitation and Propaganda Board attached to HWSP Cen. Cttee 1975-. *Leisure interest:* reading. *Address:* Hungarian Socialist Workers' Party, 1387 Budapest V, Széchenyi rakpart 19, Hungary. *Telephone:* 111-400.

OVCHINNIKOV, Yuriy Anatoliyevich, D.SC.; Soviet biochemist; b. 2 Aug. 1934, Moscow; s. of Anatoliy and Yelena Ovchinnikov; m. Tatyana Kirensky 1956; two s. one d.; ed. Moscow State Univ.; Research Worker, Shemyakin Inst. of Bio-organic Chemistry, U.S.S.R. Acad. of Sciences 1960, Dir. 1970; Corresp. mem. U.S.S.R. Acad. of Sciences 1968, mem. 1970, Vice-Pres. 1974, Chair. of Chem., Technological and Biological Sciences Div. 1974; now Prof., Moscow Univ.; mem. of Acad. Leopoldina, Hon. mem. CIBA Foundation; Hon. D.Sc., Univs. of Uppsala and Paris; Order of Lenin. *Publications:* Membrano-aktivnye kompleksony (monograph) 1974, scientific papers on synthetic and theoretical organic chem., physical-organic chem., chem. and biochem. of peptides and proteins, membrane biology; Editor, Bioorganitsheskaya chimia, and mem. of editorial boards of numerous int. journals. *Leisure interests:* swimming and hunting. *Address:* c/o U.S.S.R. Academy of Sciences, Leninsky prospekt 14, Moscow, U.S.S.R.

OVERBECK, Egon, DR. RER. POL.; German business executive; b. 11 Jan. 1918; ed. Reform-Realgymnasium Rendsburg/Holstein, and Johann Wolfgang Goethe Universität, Frankfurt am Main; Army service, Lt. 1938, Maj. on Gen. Staff 1944; univ. studies after Second World War; Deputy Dir. Metallgesellschaft A.G., Frankfurt/Main 1954; mem. Exec. Board Vereinigte Deutsche Metallgesellschaft A.G., Frankfurt/Main 1956; Chair. of Management Board, Mannesmann A.G., Düsseldorf 1962-; Dir. Allianz A.G., Munich, Siemens A.G., Munich, and numerous other firms; Chair. Advisory Board DEMAG A.G., Duisburg, Advisory Council Deutsche Bank A.G.; Grosses Bundesverdienstkreuz and several foreign and war decorations. *Publications:* Possibilities of Maintaining and Increasing West German Lead-Zinc Production 1951. *Address:* Mannesmann A.G., Mannesmann- Ufer 2, 4 Düsseldorf, Federal Republic of Germany. *Telephone:* 8201.

OVERBEEK, Jan Theodoor Gerard, DRS.CHEM., PH.D.; Dutch professor of physical chemistry; b. 5 Jan. 1911, Groningen; s. of Dr. A. A. and J. C. (van Ryssel) Overbeek; m. Johanna Clasina Edie 1936; four d.; ed. Univ. of Utrecht; Asst. at Univ. of Ghent, Belgium 1935-36, Univ. of Utrecht 1936-41; Scientific Officer, N. V. Philips, Eindhoven 1941-46; Prof. of Physical Chem., Univ. of Utrecht 1946-, Vice-Pres. of Univ. 1971-76; Visiting Prof., M.I.T., Cambridge, Mass. 1952-53, 1966-67, 1969-, Columbia Univ., New York 1956, Univ. of Southern Calif., Los Angeles 1959-60; mem. Board, Verenigde Bedrijven Bredero, Utrecht 1963-; mem. Royal Netherlands Acad. of Arts and Sciences 1953-, Royal Flemish Acad. of Sciences (Belgium), American Acad. of Arts and Sciences; Hon. D.Sc. (Clarkson Coll. of Tech., Potsdam, N.Y.) 1967. *Publications:* Theory of Stability of Lyophobic colloids (with E. J. W. Verwey) 1948, Colloid Science (with H. R. Krugt) Vol. I 1949, Vol. II 1952, The Electrical Double Layer (with A. L. Loeb, P. H. Wiersema) 1960; numerous articles on colloid and surface science. *Leisure interests:* outdoor activities, hiking, photography. *Address:* Faculty of Science, Rijksuniversiteit te Utrecht, Kromme Nieuwe Gracht 29, Utrecht; Zweerslaan 35, Bilthoven, Netherlands. *Telephone:* 030-782882.

OVERBY, Andrew Norris, M.S.; American banker; b. 27 March 1909, Cheyenne Agency, S.D.; s. of Samuel O. Overby and Anna Marie Amundson; m. Annette Picus 1928; ed. Univ. of Minnesota and Columbia Univ.; with Irving Trust Co. New York 1930-41; Asst. to Vice-Pres. 1936-41; Special Asst. to Vice-Pres. Fed. Reserve Bank of New York 1942, Asst. Vice-Pres. 1946; U.S. Army 1942-46; Chief, Int. Div., Reciprocal Aid Branch 1942-45; Exec. Officer to Dir. of Material, H.Q. Army Service Forces 1945-46; Special Asst. to Sec. of the Treasury 1946-47; U.S. Exec.-Dir. IMF, and Special Asst. to the Sec., U.S. Treasury Dept. 1947-49; Deputy Man. Dir. IMF 1949-52; Asst. Sec. Treasury Dept. 1952-57; U.S. Exec.-Dir. IBRD 1952-57; mem. Nat. Security Council Planning Board 1952-57; Dir. The First Boston Corpn., New York City 1957-76, Vice-Pres. 1957-64, Chair. Man. Cttee. 1971-72, Vice-Chair. of Board 1964-74, Consultant April-Dec. 1974; Dir. First Boston, Inc. 1976-; Dir. Japan Soc. 1970-76, mem. Exec. Cttee. 1971-76, Chair. Exec. Cttee. 1973-76; Dir. Liberian Iron Ore Ltd. 1965-, Int. Exec. Service Corps 1965-; Trustee, Citizens' Budget Comm. Inc., N.Y. 1973-; Pres. Japan Soc. 1977-; Legion of Merit, Alexander Hamilton Award (Treasury Dept.), Army Commendation Ribbon, Order of the Rising Sun (Japan) 1973, etc. *Leisure interests:* the theatre, music, reading, swimming. *Address:* 20 Exchange Place, New York N.Y. 10005, (Home); Manhattan House, 200 East 66th Street, New York 21, N.Y., U.S.A. (Office).

OVERTON, William Ward; American banker; b. 30 April 1897, Kansas City, Kansas; s. of William Ward and Ella May (Barnes) Overton; m. Evelyn Lucas 1924; one s. one d.; ed. private schools, Kansas City Univ. and Texas Univ.; Pres. W. W. Overton & Co. 1913-61, Chair. of Board 1961-; Chair. of Board Texas Bank and Trust Co. of Dallas 1947-, Pres. 1961-65, Dir. 1936-; Dir. and fmr. Dir. of numerous firms and business orgs. in Texas; official of numerous social, civic, educational and philanthropic orgs., particularly in Dallas. *Address:* Texas Bank and Trust Co., 1 Main Place, Dallas, Texas 75226 (Office); 4830 Cedar Springs, Dallas, Texas, U.S.A. (Home). *Telephone:* LA1-5877.

OWEN, Rt. Hon. David Anthony Llewellyn, P.C., M.A., M.B., B.CHIR.; British politician; b. 2 July 1938, Plymouth; s. of Dr. John William Morris Owen and Mary Llewellyn; m. Deborah Schabert 1968; two s. one d.; ed. Bradfield Coll., Sidney Sussex Coll., Cambridge, St. Thomas' Hosp.; house appointments, St. Thomas' Hosp. 1962-64, Neurological and Psychiatric Registrar 1964-66, Research Fellow, Medical Unit 1966-68; Labour M.P. for Sutton Div. of Plymouth 1966-74, for Devonport Div. of Plymouth 1974-; Parl. Private Sec. to Minister of Defence, Admin. 1967; Parl. Under-Sec. of State for Defence, Royal Navy 1968-70; Opposition Defence Spokesman 1970-72, resigned over party policy on EEC 1972; Parl. Under-Sec. of State, Dept. of Health and Social Security (DHSS) March-July 1974; Minister of State, DHSS 1974-76, FCO 1976-77; Sec. of State for Foreign and Commonwealth Affairs 1977-79; Opposition Spokesman for Energy June 1979-; Chair. Decision Tech. Int. 1970-72; Gov. Charing Cross Hosp. 1966-68; Patron, Disablement Income Group 1968-; Chair, South West Regional Sports Council 1967-71. *Publications:* Editor: A Unified Health Service 1968; Contributor: Social Services for All 1968; Author: The Politics of Defence 1972, In Sickness and in Health—The Politics of Medicine 1976, Human Rights 1978; articles in Lancet, Neurology and Clinical Science. *Leisure interest:* sailing. *Address:* House of Commons, Westminster, London, S.W.1; 78 Narrow Street, Limehouse, London, E.14, England (Home). *Telephone:* 01-987 5441 (Home).

OWEN, Ray David, PH.D., SC.D.; American biologist; b. 30 Oct. 1915, Genesee, Wis.; s. of Dave Owen and Ida Hoeft Owen; m. June Johanna Weissenberg 1939; one s.; ed. Carroll Coll., Wis., Univ. of Wisconsin; Research Fellow, Wisconsin 1941-43, Asst. Prof. of Genetics and Zoology 1943-47; Gosney Fellow, Calif. Inst. of Tech. 1946-47, Assoc. Prof. 1947-53, Prof. 1953-, Chair. Div. of Biology 1961-68, Vice-Pres. for Student Affairs and Dean of Students 1975-; Research Participant, Oak Ridge Nat. Lab. 1957-58; mem. Genetics Soc. of America (Treas. 1957-60, Vice-Pres. 1961, Pres. 1962), Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Acad. of Political and Social Sciences, Soc. for the Study of Evolution, American Assen. of Immunologists; served on numerous scientific cttees. *Publications:* General Genetics (with Srb and Edgar) 1952, 1965; numerous research papers. *Address:* Division of Biology, 156-29, California Institute of Technology, Pasadena, Calif. 91125, U.S.A. *Telephone:* (213) 795-6811.

OWINGS, Nathaniel Alexander, B.S.; American architect; b. 5 Feb. 1903; s. of Nathaniel Fleming and Cora Alexander; m. 2nd Margaret Wentworth 1954; ed. Univ. of Illinois, Cornell Coll. of Architecture; research in Egypt, India and the Far East 1935-36; in partnership with Skidmore and Merrill 1936, creating the firm of Skidmore, Owings and Merrill, with whom he designed numerous Govt. projects and private buildings including Oak Ridge, Tennessee, U.S. Base at Okinawa, Lever House, New York, Terrace Plaza Hotel, Cincinnati, Air Force Acad., Colorado, Chase Manhattan Bank, New York, John Hancock Western Home Office, San Francisco, Crown Zellerbach Building, San Francisco, John Hancock Tower, Chicago, Sears Tower, Chicago, etc.; mem. Advisory Bd. on Nat. Parks, Historic Bldgs. and Monuments 1966-70, Chair. 1970-72, mem. Council 1972-; Fellow, American Inst. of Architects; Trustee, American Acad. in Rome, Cttee. for Econ. Development (CED); Dir. Standard Insurance Co., Portland, Ore.; Assoc. Nat.

Acad. of Design; Hon. D.D.L. (Ball State Univ.), Dr. of Humane Letters (Indiana) 1973, (Butler) 1976. *Publications:* The American Aesthetic 1969, The Spaces in Between—an Architectural Journey 1973. *Address:* 1201 Connecticut Avenue, Washington, D.C., 20036, U.S.A.

OWREN, Paul A., M.D., F.A.C.P., F.A.C.C.P.; Norwegian professor of medicine; b. 27 Aug. 1905, Faaberg; s. of Peder A. Owren and Anna Nermo; m. 1st Marit V. E. Roedland 1935 (died 1964); 2nd Kathleen M. Thrane 1968; one d.; ed. Univ. of Oslo; Resident, Oslo City Hosps. and Rikshospitalet 1940-44; Senior Resident Aker Hosp. 1945-47; Research Assoc. Lister Inst. of Preventive Medicine, London 1946; Senior Resident Rikshospitalet 1948, Head of Medical Dept. 1949-70, Head Inst. for Thrombosis Research 1955-63, Researcher 1971-; Prof. of Medicine Univ. of Oslo 1949-70; mem. advisory panel for cardiovascular diseases, WHO 1962-; Chair. Norwegian Research Council for Science and Humanities 1958-61; mem. Acad. of Science and Letters (Oslo), Royal Norwegian Soc. of Science, Royal Soc. of Science (Sweden), Acad. Royale de Médecine (Belgium), Int. Soc. on Thrombosis and Haemostatis (Pres. 1970), Int. Cttee. on Haemostasis and Thrombosis (Chair. 1967-68), Int. Soc. of Haematology (Vice-Pres. 1950-54), Int. Coll. of Angiology (Vice-Pres. 1965-73), American Coll. of Chest Physicians (Gov. 1968-74); Hon. Fellow, American Coll. of Physicians, other medical and haematological Socs.; Commdr. Order of St. Olav 1954, with Star 1970; Int. Award for Heart and Vascular Research, James M. Mitchell Foundation 1969; Medical Prize, Anders Jahre Foundation 1969. *Publications:* The Coagulation of Blood: Investigations on a new Clotting Factor 1947; about 200 publications in the field. *Address:* Institute for Thrombosis Research, Rikshospitalet, Oslo (Office); Bjerkaasen 44, 1310 Blommenholm, Norway (Home). *Telephone:* 02-201050 (Office); 02-548633 (Home).

OWUSU, Victor; Ghanaian politician; b. 26 Dec. 1923, Agona-Ashanti; ed. Univs. of Nottingham and London; called to the Bar, Lincoln's Inn 1952; practising barrister 1952-67; M.P. for Agona-Kwabre 1956-61; Attorney-Gen. 1966-69; concurrently Minister of Justice 1967-69; Minister of External Affairs April 1969, 1969-71; Attorney-Gen. and Minister of Justice 1971-72; has served on several govt. comms. and corpns.; fmr. mem. Council of Univ. of Ghana, Legon, Council of Univ. of Science and Technology, Kumasi and Cen. Legal Council of Ghana; Progress Party. *Address:* Accra, Ghana.

OZAWA, Seiji; Japanese conductor; b. 1 Sept. 1935, Shenyang; ed. Toho School of Music, Tokyo (under Prof. Hideo Saito), Tanglewood, U.S.A. and in Berlin under Herbert von Karajan; early engagements with Radio Orchestra (N.H.K.) and Japan Philharmonic; Asst. Conductor (under Leonard Bernstein), New York Philharmonic 1961-62 (including tour of Japan 1961); guest conductor, San Francisco Symphony, Detroit Symphony, Montreal, Minneapolis, Toronto and London Symphony Orchestras 1961-65; Music Dir. Ravinia Festival, Chicago 1964; Music Dir. Toronto Symphony Orchestra 1965-70; toured Europe conducting many of the major orchestras 1966-67; Salzburg Festival 1969; Music Dir. San Francisco Symphony Orchestra 1970-76; Music Dir. Boston Symphony 1973-; now makes frequent guest appearances with most of the leading orchestras of America, Europe and Japan; First Prize, Int. Competition of Orchestra Conductors, France 1959, Koussevitsky Memorial Scholarship 1960; recordings for RCA, CBS, Polydor and EMI. *Leisure interests:* golf, tennis, skiing. *Address:* c/o Ronald A. Wilford (Columbia Artists Management Inc., Conductors Division), 165 West 57th Street, New York, N.Y., U.S.A.; c/o Harold Holt Ltd., 122 Wigmore Street, London, W.1, England.

OZAWA, Tatsuo; Japanese politician; ed. Tokyo Univ.; Official, Ministry of Home Affairs; Head of Health Insurance Section, Ministry of Health and Welfare; mem. House of Reps.; Dir. Gen. Affairs Bureau and Treasury Bureau, Liberal Dem. Party; Minister of Construction Nov.-Dec. 1974; Minister of State and Dir.-Gen. Environment Agency 1974-76, of Health and Welfare 1977-79. *Address:* House of Representatives, Tokyo, Japan.

ÖZBEK, Dr. Sabahattin; Turkish agronomist and politician; b. 1915, Erzincan; ed. Secondary School, Istanbul, Faculty of Agric., Univ. of Ankara; Lecturer, Faculty of Agric., Univ. of Ankara 1938, Asst. Prof. 1941, Prof. 1953, Dean 1955-57, 1965-68; Visiting Prof. Univs. of Michigan and Calif. 1950-51, 1957-58; Minister of Nat. Educ. 1972-73, of Communications April 1973-Jan. 1974, Nov. 1974-March 1975; founded Atatürk Univ., Erzurum, later Co-Founder Faculty of Agric., Adana; Chair. Agricultural Cttee. for the preparation of First Five-Year Devt. Plan; mem. Turkish Atomic Energy Comm.; Prize of Professional Honour, Union of Agricultural Engineers. *Publications:* 35 books in Turkish and foreign languages. *Address:* c/o Ministry of Communications, Ankara, Turkey.

ÖZDAŞ, Mehmet Nimet, DR.ING.; Turkish professor of mechanical engineering; b. 26 March 1921, Istanbul; s. of Izzet and Refia Özdaş; m. Suna Taki 1956; two s.; ed. Tech. Univ. of Istanbul, Imperial Coll., London and London Univ.; Dozent, Tech. Univ. of Istanbul 1952, Prof. 1961-73, Dir. Computation Centre 1962-64; Visiting Prof. Case Inst. of Tech. 1958-59; Sec.-Gen. Scientific and Tech. Research Council 1964-67, mem. Science Board 1968-71; Rep. to CENTO Science Council 1965, to NATO Science Cttee. 1966-73; Dir. Marmara Scientific and Industrial Research Inst. 1969-73; Asst. Sec.-Gen. for Scientific and Environmental Affairs, NATO Sept. 1973-. *Publications:* about 20 articles in English in scientific periodicals, many articles in Turkish and five books. *Leisure interest:* sport. *Address:* Scientific Affairs Division, North Atlantic Treaty Organization, 1110 Brussels, Belgium. *Telephone:* 216-69-38.

OZGA-MICHALSKI, Jozef; Polish politician and writer; b. 8 March 1919, Bieliny, Voiv. Kieleckie; s. of Władysław and Józefa Ozga-Michalski; m. Stanisława Ozga-Michalski; one s. two d.; during occupation, mem. of the leadership of the Peasant Battalions and editor of underground peasant periodicals 1940-44; Organizer of Peasant Party (SL) and co-organizer of the Voivodship People's Council (VPC), Kielce 1944; after the liberation, first Chair. of VPC Kielce 1945-47; Chair. Central Board of Peasant Self-Aid Union 1949-53; Chair. Central Union of Agricultural Circles 1959-62; Vice-Chair. Polish Cttee. of Peace Defenders 1950-; mem. World Peace Council 1952-; mem. Central Board of the Lay Schools Soc. 1959-62, Chair. Polish-Italian Group of the Interparl. Union 1961-; mem. Polish-Brazilian Friendship Soc. 1962-74, Chair. May 1974-; mem. S.L. 1944-49, United Peasant Party (ZSL) 1949-, Sec. of S.L. Central Cttee. 1949, and ZSL Central Cttee. 1949-55, Vice-Chair. ZSL Central Cttee. 1955-; mem. Home Nat. Council (KRN) and Seym 1947-; Vice-Marshal of Seym 1952-56; mem. Council of State 1957-, Vice-Chair. 1972-76; mem. Polish Writers' Union 1945-; Vice-Chair. Presidium of All Poland Cttee. of Nat. Unity Front 1971-; Vice-Chair. Chief Council of Union of Fighters for Freedom and Democracy 1945-; mem. Council of State 1976-; Vice-Chair. Cen. Board of Polish-Soviet Friendship Soc. 1950-; Commdr's. Cross with the Star of the Polonia Restituta Order 1964; Georgi Dymitrov Medal 1972; Order of Banner of Labour, 1st Class; Grunwald Cross, 3rd Class; Partisan Cross, etc. *Publications:* poetry including Poemat nowosielecki, Ludowy potok, Lutnia wiejska, Pełnia, Druga strona księżyca, Swiatowid, Polska, Czernek i Anna, Ta—bądź, Ściernisko, Walc karnawałowy, Poezje Wybrane 1975, Rajski oset 1977; novels: Młodzik, Sklepienie niebieskie, Sowizdrzał świętokrzyski; stories: Krajobraz rodzinny, Smutne i wesołe, W kogo trafi grom 1978; has translated Kalevali into Polish. *Leisure interest:* writing. *Address:* Aleja 1 Armii Wojska Polskiego 16, 00-582 Warsaw, Poland. *Telephone:* 28-18-60.

ÖZTEKIN, Mukadder; Turkish politician; b. 1919, Niğde Prov.; ed. Galatasaray Lycée, Istanbul, Ankara Univ.; joined Ministry of Interior 1944; Country Chief Officer in various districts, Inspector; Gov. of Adana 1960; Senator for Adana 1966; Minister of Public Works 1971-73, of the Interior April 1973-Jan. 1974, Nov. 1974-March 1975; Officier, Légion d'honneur; Independent. *Address:* c/o Ministry of the Interior, Ankara, Turkey.

P

PAAR, Jack; American television performer; b. 1 May 1918; Radio announcer, Indianapolis, Youngstown, Pittsburgh, Cleveland, Buffalo; appeared in films: Walk Softly Stranger 1950, Love Nest 1951, Down Among the Sheltering Palms 1953; TV programmes Up to Paar 1952, TV Morning Show 1955, Tonight Show 1957-58, Jack Paar Show 1958-62, The Jack Paar Program 1962-65, Jack Paar Tonite 1973. *Address:* c/o ABC-TV, 1330 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

PAASIO, (Kustaa) Rafael; Finnish politician; b. 6 June 1903; early career as typographer, later [redacted] journalist; Ed.-in-Chief Turun Päivälehti 1942-66; mem. municipal council Turku 1945-; mem. Parl. 1948-, Speaker 1966, 1969-72; Pres. Comm. for Foreign Affairs 1949-66; Cand. for Presidency 1962; Pres. Social Dem. Party 1963-75; Prime Minister 1966-68, Feb.-Sept. 1972. *Address:* Virmuntie 26, Turku 53, Finland (Home).

PACE, Frank, Jr., M.A., LL.D.; American business executive; b. 5 July 1912; ed. Princeton and Harvard Univs.; Asst. Dist. Attorney in Arkansas 1936-38; Gen. Attorney for the Revenue Dept., State of Arkansas 1938-41; mem. of firm Pace, Davis & Pace 1941-42; served U.S. Army Air Forces 1942-46; now Lieut.-Col., Air Force Reserve; Special Asst. to Attorney-Gen. of the U.S. 1946; Exec. Asst. to the Postmaster-Gen. 1946-48; Vice-Pres. Universal Postal Union 1947, Rep. at UN 1947-48; Chief U.S. Del. to the 12th Universal Postal Congress, Paris 1947; Asst. Dir. Bureau of the Budget 1948-49, Dir. 1949-50; mem. Cttee. on Contributions, UN 1949-50, President's Advisory Cttees. on Man. Improvement and on Int. Econ. Growth; Defence Adviser; Chair. NATO Defence Ministers' Confs., Brussels 1950, Del. Canada and Italy 1951; U.S. Sec. of the Army 1950-53; Exec. Vice-Pres. Gen. Dynamics Corpn., N.Y. 1953-57, Dir. 1953-, Pres. 1957-59, Chair. and Chief Exec. Officer 1959-62; Chair. Canadair Ltd. 1957-62, Corpn. for Public Broadcasting 1968-72; Pres. Int. Exec. Service Corps 1964-; Dir. numerous other companies; mem. Nat. Inst. of Social Sciences 1956- (Pres. 1960-77); Life mem. Assen. of U.S. Army (Pres. 1968-71); founding board mem. Civilian Mil. Inst. 1976; fmr. Trustee, Calif. Inst. of Tech.; Hon. M.A. (Princeton), Hon. LL.D. (Louisville, Syracuse, Arkansas, Temple Univs., Dartmouth, Northland, Adelphi Colls.), Hon. Sc.D. (Lafayette, Clarkson Colls.), Hon. L.H.D. (Washington Coll.); George Catlett Marshall Medal of Assen. of U.S. Army 1976. *Address:* International Executive Service Corps, 622 Third Avenue, New York, N.Y. 10017 (Office); Hillside Road, Greenwich, Conn., U.S.A. (Home).

PACHACHI, Adnan Musahim al-, PH.D.; Iraqi diplomatist; b. 14 May 1923; ed. American Univ. of Beirut; joined Foreign Service 1944, served Washington, Alexandria; Dir.-Gen. Ministry of Foreign Affairs 1958-59; Perm. Rep. to UN 1959-65, 1967-69; Minister of Foreign Affairs 1965-67; Minister of State, Abu Dhabi, United Arab Emirates 1971-74; mem. Abu Dhabi Exec. Council 1974-; Personal Rep. of Head of State of U.A.E. 1974-. *Address:* c/o Manhal Palace, Abu Dhabi, United Arab Emirates.

PACHARIYANGKUN, Upadit, DR.RER.POL; Thai diplomatist and government official; b. 10 Dec. 1920, Bangkok; s. of Taad and Kim Pachariyangkun; m. Aphira Hemachan 1951; one s. one d.; ed. Univs. of Berlin and Berne, Nat. Defence Coll.; joined Foreign Service and served at Legation, Berlin 1942; Chief of Div., UN Dept. 1954; First Sec., Legation in Buenos Aires 1957; Dir.-Gen. of Econ. Dept., Ministry of Foreign Affairs 1963; Amb. and acting Perm. Rep. to UN 1964; Amb. to Nigeria, Ivory Coast, Liberia 1966; Dir.-Gen. Econ. Dept., Secretariat-Gen. of ASEAN 1970; Amb. to Switzerland, Yugoslavia, Vatican City and UN Office in Geneva 1972, to Fed. Repub. of Germany 1973, to U.S.A. Feb.-Oct. 1976; Minister of Foreign Affairs Oct. 1976-Oct. 1977, Nov. 1977-; Knight Grand Cross, Order of the Crown; Grand Cordon, Order of the White Elephant. *Leisure interest:* reading. *Address:* Ministry of Foreign Affairs, Saranrom Palace, Bangkok (Office); 1097 Nakorn Chaisri Road, Bangkok, Thailand (Home). *Telephone:* 585-9164 (Home).

PACHECHO, Rondon; Brazilian politician; b. 31 July 1919; m. Maria de Freitas Pachecho 1943; one s. (deceased) two d.; ed. Univ. de Minas Gerais; State deputy and in Secretariat of Legislative Assembly of Minas Gerais 1946; Sec. to Min. of Interior; Deputy Leader of União Democrática Nacional in Chamber of Deputies; mem. Constitutional and Judicial Cttee., Chamber of Deputies; Deputy Leader of Castelo Branco Govt. and of the Majority in Chamber of Deputies; Gen. Sec., Aliança Renovadora Nacional; Minister in charge of Cabinet Affairs, Costa e Silva Govt.; Brazilian del. UN 20th Gen. Ass. 1965; Pres. of Nat. Directorate, Aliança Renovadora Nacional for 1970 elections; Governor of State, Minas Gerais 1971-74; Grand Cross of the Order of Merit, Brazil 1967, Officer 1st Class Imperial Order of the Sacred Treasure of Japan 1967, numerous other decorations. *Address:* c/o Palácio do Govêrno, Estado de Minas Gerais, Brazil.

PACHECO ARECO, Jorge; Uruguayan newspaper editor and politician; b. 9 April 1920, Montevideo; s. of Manuel Pacheco and Lilina Areco; ed. Facultad de Derechos y Ciencias Sociales; Asst. Ed. El Día (Montediveo daily) until 1961, Editor 1961-65; Vice-Pres. of Uruguay 1967; Pres. of Uruguay 1967-72; Amb. to Spain 1972-. *Address:* Embassy of Uruguay, Paseo del Pintor Rosales 32, Madrid, Spain.

PACINO, Al (Alfredo James); American actor; b. 25 April 1940, New York; s. of Salvatore and Rosa Pacino; m. Joanne Alex Skylar 1976; ed. High School for the Performing Arts, New York, The Actors Studio; worked [redacted] messenger and cinema usher; Broadway début in Does a Tiger Wear a Necktie? 1969; appeared with Lincoln Center Repertory Co. as Kilroy in Camino Real 1970; other New York appearances include The Connection, Hello Out There, Tiger at the Gates and The Basic Training of Pavlo Hummel 1977; appearances at Charles Playhouse Boston include: Richard III 1973, Arturo Ui 1975, Rats (director) 1970; films include: Me, Natalie 1969, Panic in Needle Park 1971, The Godfather 1972, Scarecrow 1973, Serpico 1974, The Godfather Part II 1974, Dog Day Afternoon 1975, Bobby Deerfield 1977; Nat. Soc. Film Critics Award, The Godfather; British Film Award, The Godfather Part II. *Address:* William Morris Agency, 1350 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

PACKARD, David, F.I.E.E.E.; American business executive and fmr. government official; b. 7 Sept. 1912, Pueblo, Colo.; m. Lucile Salter 1938; one s. three d.; ed. Centennial High School, Pueblo, and Stanford Univ., Calif.; formed Hewlett-Packard Co. (to design and manufacture electronic measurement instrumentation) with William R. Hewlett 1939, Pres. 1947-64, Chair. of Board, Chief Exec. Officer 1964-69, 1972-; U.S. Deputy Sec. of Defense 1969-71; Dir. Standard Oil Co. of Calif. 1972-, Caterpillar Tractor Co. 1972-, Atlantic Council 1972-, Boeing Co. 1978-; Chair. Board of Regents Uniformed Services Univ. of the Health Sciences, the Trilateral Comm., Advisory Cttee. Woodrow Wilson Int. Center for Scholars; Co-Chair. Cttee. on the Present Danger, the Calif. Roundtable; mem. Nat. Acad. of Eng., the Business Council (fmr. Chair. 1972-74), the Business Roundtable U.S. and U.S.S.R. Trade and Econ. Council Cttee. on Science and Tech.; Life mem. Instrument Soc. of America; numerous awards; Hon. D.Sc. (Colorado Coll.) 1964, Hon. LL.D. (Calif.) 1966, (Catholic Univ.) 1970, D.Litt. (Southern Colo. State Coll.) 1973, D.Eng. (Notre Dame) 1974. *Address:* 1501 Page Mill Road, Palo Alto, Calif. 94304, U.S.A.

PACKARD, Vance, A.B., M.S.; American author and teacher; b. 22 May 1914, Granville Summit, Pa.; s. of Philip and Mabel Packard; m. Virginia Mathews 1938; two s. one d.; ed. Pennsylvania State Univ. and Columbia Univ.; Reporter for Boston Record 1937; worked for four years in New York for Associated Press; editorial staff of American Magazine 1942-56, Collier's Magazine 1956. *Publications:* The Hidden Persuaders 1957, The Status Seekers 1959, The Waste Makers 1960, The Pyramid Climbers 1962, The Naked Society 1964, The Sexual Wilderness 1968, A National of Strangers 1972, The People Shapers 1977. *Address:* 87 Mill Road, New Canaan, Conn. 06840, U.S.A.

PACKER, Kerry Francis Bullmore; Australian business executive; b. 17 Dec. 1937, Sydney; s. of late Sir Frank and Lady Packer; m. Roslyn Weedon 1963; one s. one d.; ed. Cranbrook School, Geelong Church of England Grammar School; Chair. and Man. Dir. Consolidated Press Holdings Ltd., and Television Corpn. Ltd. 1974-; Chair. Conpress Printing Ltd.; Dir. Gen. Television Corpn. 1974-. *Leisure interests:* golf, cricket, tennis, shooting. *Address:* Australian Consolidated Press Ltd., 168 Castlereagh Street, Sydney, N.S.W. 2000, Australia.

PACKWOOD, Bob; American lawyer and politician; b. 11 Sept. 1932, Portland, Ore.; m. Georgie Oberteuffer 1964; one s. one d.; ed. Willamette Univ., N.Y. Univ.; practised law in Portland 1958-68; mem. Oregon House of Reps. 1962-68; U.S. Senator from Oregon

1968-; Chair. Senatorial Cttee. 1977-78; mem. Bd. Dirs. New York Univ.; Hon. LL.D. Willamette Univ. 1969; several awards. *Address:* U.S. Senate, Washington, D.C. 20510, U.S.A.

PAÇO D'ARCOS, Joaquim; Portuguese writer; b. 14 June 1908, Lisbon; s. of Henrique Corrêa da Silva (Conde de Paço d'Arcos) and Maria do Carmo Corrêa da Silva; m. 1st Maria Candida Magalhães Corrêa 1932 (died 1945), 2nd Maria da Graça Moura Braz 1949; three s.; novelist, playwright, essayist, poet; awarded many literary prizes; work translated into various language; mem. Acad. Brasileira de Leteras; Chair. Portuguese Soc. of Writers 1960-62, 1965-. *Publications:* The Last Hero, Ana Paulo, Diary of an Emigrant, Anxiety, Loves and Voyages of Pedro Manuel, Snow over the Sea, The Accomplice, The Absent, Pathology of Dignity, United States 1942, The Novel and the Novelist, The Road to Sin, Triple Mirror, Imperfect Poems, Churchill—The Statesman and the Writer, The Forest of Concrete—Lights and Shadows of the United States, The Captive Doe, Carnival and Other Tales, Memoirs of ■ Banknote, Cela 27, The Long Arm of Justice, Not Too Exemplary Tales, Memoirs of My Life and Times etc. *Address:* Avenida A.A. Aguiar 38, Lisbon, Portugal. *Telephone:* Lisbon 43325.

PADILLA ARANCIBIA, Gen. David; Bolivian army officer and Head of State; Career officer with regional commands; Pres. of Bolivia and C.-in-C. of the Armed Forces Nov. 1978-. *Address:* Oficina del Presidente, La Paz, Bolivia.

PADILLA SEGURA, Ing. José-Antonio; Mexican electrical engineer and politician; b. 12 March 1922, San Luis Potosí; m. María Elena Longoria de Padilla Segura 1948; eleven c.; ed. Escuela Superior de Ingeniería Mecánica y Eléctrica del Instituto Politécnico Nacional; fmr. Dir.-Gen. Instituto Politécnico Nacional, fmr. Vice-Pres. of Centre for Research and Advanced Studies, Factory Inspectorate, and Nat. Centre for Tech. and Industrial Educ.; mem. Natural Sciences Cttee. (Mexico), UNESCO; mem. Man. Cttee. Nat. Tech. Council for Educ.; mem. U.S.A.-Mexico Comm. for Space Research; Sec. for Communications 1964-70; now Dir. Gen. Altos Hornos de México S.A., Estudios y Planeación (ESPLA), La Perla, Minas de Fierro, S.A., Cía. Carbonera La Sauceda, S.A.; Vice-Pres. Nat. Assn. of Univs. and Insts. of Higher Educ.; mem. Mexican Assn. of Mechanical and Electrical Engineers, Mexican Coll. of Mechanical and Electrical Engineers, Mexican Physical Soc., Franco-Mexican Assn. of Engineers; Order des Palmes académiques; Hon. D.Sc. (Yucatán and Sinaloa). *Leisure interests:* science, history, culture, art. *Address:* Plaza de la República 43-2° Piso, México 1, D.F., Mexico. *Telephone:* 535-33-80.

PAFFORD, John Henry Pyle, M.A., D.LIT., F.S.A., F.L.A.; British librarian; b. 6 March 1900, Bradford-on-Avon, Wilts.; s. of John and Bessie Pyle Pafford; m. Elizabeth R. Ford 1941; one d.; ed. Trowbridge High School and Univ. Coll., London; Library Asst., Univ. Coll., London 1923-25; Librarian and Tutor, Selly Oak Colleges, Birmingham 1925-31; Sub-librarian, Nat. Central Library, London 1931-45; Lecturer, Univ. of London School of Librarianship 1937-61; War Office, Books and Libraries for Army Educ. 1944-45; Goldsmiths' Librarian, Univ. of London 1945-67; Library Adviser, Inter-Univ. Council for Higher Educ. Overseas 1960-68; Fellow, Univ. Coll., London. *Publications:* Bale's King Johan 1931, Library Co-operation in Europe 1935, The Sodder'd Citizen (Malone Soc.) 1936, Books and Army Education 1946, American and Canadian Libraries 1949, W. P. Ker: A Bibliography 1950, The Winter's Tale (Arden Shakespeare) 1963, Isaac Watts: Divine Songs for Children 1971, L. Bryskett: Works 1972, Employer and Employed (with E. R. Pafford) 1974. *Leisure interests:* home, walking, book-hunting. *Address:* Hillside, Allington Park, Bridport, Dorset DT6 5DD, England. *Telephone:* 0308-22829.

PAGANO, Gino; Italian industrialist; b. 2 Sept. 1921, Naples; ed. Naples Univ.; joined ANIC (Associazione Nazionale dell'Industria Chimica) 1951; Vice-Dir.-Gen. of production, ANIC and associated factories 1961-68; Man., ANIC Gela and Vice Dir.-Gen. for co-ordination of ANIC S.p.A. 1963-67; Gen. Man. ANIC 1967, Pres. 1972-76, Chief Exec. 1975; Chair. Sirycon 1976-; co-ordinator, chem. and nuclear sector, ENI. *Address:* c/o ANIC, San Donato Milanese, Milan, Italy. *Telephone:* 02-53531.

PAGE, Sir Alexander Warren, Kt., M.B.E., M.A., F.I.MECH.E.; British business executive; b. 1 July 1914, Surbiton, Surrey; s. of Sydney and Phyllis Spencer Page; m. Anne Lewis Hickman 1940 (dissolved); two s. one d.; ed. Tonbridge School and Clare Coll., Cambridge; joined Metal Box Ltd. 1936; served in army 1940-45; Sales Dir. Metal Box Ltd. 1957, Man. Dir. 1966, Deputy Chair. 1969, Chair. Feb. 1970-, Man. Dir. 1970-77, Chief Exec. 1975-77; Dir. Electrolux Ltd. 1977, Chair. 1978-; Dir. C. Shippam Ltd. 1979-. *Leisure interests:* golf, tennis, squash. *Address:* 2 Montagu Square, London, W1H 1RA; Merton Place, Dunsfold, Nr. Godalming, Surrey, England. *Telephone:* 01-935 9894 (London); 0486-49-211 (Surrey).

PAGE, Geneviève; French actress; b. 13 Dec. 1931, Paris; m.; two c.; principal actress in the French National Theater and the Jean-Louis Barrault company; has appeared in many famous classical and tragic stage roles; numerous film appearances include: Ce siècle a cinquante ans, Pas de petié pour les femmes, Fanfan la tulipe, Lettre ouverte, Plaisirs de Paris, Nuits andalouses, L'étrange désir de M. Bard, Cherchez la femme, L'homme sans passé, Foreign Intrigue, The Silken Affair, Michael Strogoff, Un amour de poche, Song Without End, Le Bal des Adieux, El Cid, Les égarements, Le jour et l'heure, L'honorable correspondence, Youngblood Hawke, Le majordome, Les corsaires, L'or et le plomb, Trois chambres à Manhattan, Grand Prix, Belle de jour, Mayerling, A Talent for Loving, The Private Life of Sherlock Holmes, Les Gémeaux, Décembre. *Address:* 52 rue de Vaugirard, 75006 Paris, France.

PAGE, Graham (see Page, Rodney Graham).

PAGE, John Brangwyn, F.B.I.M., F.I.B.; British banking official; b. 23 Aug. 1923, London; s. of Sidney J. and Doris M. Page; m. Gloria Vail 1948; one s. one d.; ed. Highgate School and King's Coll., Cambridge; served in R.A.F. 1942-46; with Bank of England 1948-, Deputy Chief Cashier 1968-70, Chief Cashier March 1970-. *Leisure interests:* music, travel. *Address:* Bank of England, Threadneedle Street, London, E.C.2, England.

PAGE, Rt. Hon. (Rodney) Graham, P.C., LL.B., M.B.E., M.P.; British politician; b. 1911, Hertford; s. of late Lieut.-Col. Frank Page, D.S.O.; m. Hilda Dixon 1934; two c.; ed. Magdalen Coll. School, Oxford, London Univ.; practising solicitor 1934-70, 1974-; Privy Council Appeal Agent; served in Civil Air Guard and R.A.F. during Second World War; mem. Parl for Crosby 1953-; Opposition Front Bench Spokesman on Housing and Land 1965-70; Minister of Local Govt. and Devt. 1970-74; Chair. Commons Select Cttee. on Statutory Instruments 1974-; Conservative. *Publications:* Two legal textbooks and articles on law. *Address:* House of Commons, London, S.W.1; 21 Cholmeley Lodge, Highgate Hill, London, N6 5EN, England. *Telephone:* 01-340 3579.

PAGE, Walter Hines, A.B.; American banker; b. 7 July 1915, Huntington, N.Y.; s. of Arthur W. and Mollie Hall Page; m. Jane N. Nichols 1942; two s. one d.; ed. Milton Acad. and Harvard Univ.; joined J. P. Morgan and Co. Inc. (merged with Guaranty Trust Co. of New York 1959) 1937; Vice-Pres. Morgan Guaranty Trust Co. 1959-64, Senior Vice-Pres. 1964-65, Exec. Vice-Pres. 1965-68, Vice-Chair. 1968-71, Dir., Pres. Morgan Guaranty Trust Co. and J. P. Morgan and Co. Inc. 1971-77, Chair. of Board 1978-. *Leisure interest:* sailing. *Address:* Morgan Guaranty Trust Co., 23 Wall Street, New York, N.Y. 10015 (Office); Cold Spring Harbor, N.Y. 11724, U.S.A. (Home). *Telephone:* (212) 483-2323 (Office).

PAGLIAZZI, Paolo; Italian banker; b. 20 Dec. 1908, Reggello, Florence; s. of late Enrico Pagliazzi and Maria Biagi; m. Beatrice Ricci 1935; one s. one d.; ed. studies in econ. and commerce; Deputy Gen. Man. Banca Nazionale del Lavoro 1960-67; Gen. Man. Monte dei Paschi di Siena 1968-75; Man. Dir. Banca Toscana 1968-75; Chair. Banco di Napoli 1975-; has taught ■■ Prof. of Banking at Univs. of Rome, Florence, Pisa; Dir. of ten financial institutions; Cavaliere di Gran Croce. *Publications:* Le Disposizioni sulla difesa del risparmio e sull'esercizio del credito (precedenti ed aspetti tecnici fondamentali) 1940, Note sulla liquidità 1950, Il Credito ■ la Banca 1953, La Liquidità bancaria sotto l'aspetto aziendale 1954, Il Credito all'Agricoltura 1958, Problemi creditizi, monetari e di mercato 1960, Il processo di liberalizzazione dei movimenti di capitale dalla costituzione della Communità ad oggi 1961, I crediti speciali 1962, Codice della Banca Borse e Valute 1963, Economia ■ Tecnica Bancaria 1967, Risparmio, investimenti e credito nella realizzazione del programma economico 1969, Le garanzie—aspetti economici 1974, Il credito ■ lungo termine 1975. *Address:* Via Romeo Romei 35, Rome, Italy. *Telephone:* 385331.

PAHANG, H.H. Sultan of, Sultan Haji Ahmad Shah ibni Almarhum Sultan Sir Abu Bakar Riayatuddin Almuadzam Shah, D.K., S.P.C.M., S.P.M.J.; Malaysian Ruler; b. 24 Oct. 1930, Istana Mangga Tunggal, Pekan; m. Tengku Hajjaj Afzan binti Tengku Muhammad 1954; ed. Malay Coll. Kuala Kangsar, Worcester Coll., Oxford, Univ. Coll., Exeter; Tengku Mahkota (Crown Prince) 1944; Capt. 4th Battalion, Royal Malay Regt. 1954; Commdr. of 12th Infantry Battalion of Territorial Army 1963-65, Lieut.-Col.; mem. State Council 1955; Regent 1956, 1959, 1965; succeeded ■■ Sultan; Timbalan Yang di Pertuan Agung (Deputy Supreme Head of State of Malaysia) 1975-79, Yang di Pertuan Agung (Supreme Head of State) 1979-. *Address:* Pekan Lama, Kuantan, Pahang, Malaysia.

PAHLAVI, Farah Diba; Her Imperial Majesty Queen Farah, Shahbanou (Empress) of Iran; b. 14 Oct. 1938; d. of Sohrab and Farida Diba; ed. Jeanne d'Arc School and Razi School, Teheran, and Ecole Spéciale d'Architecture, Paris; married H.I.M. Shah Mohammed Reza Pahlavi (*q.v.*) 21 Dec. 1959; son Reza b. 31 Dec. 1960, daughter Farahnaz b. 12 March 1963, son Ali Reza b. 28 April 1966, daughter Leila b. 27 March 1970; Foreign Assoc. mem. Fine Arts Acad., France 1974; Patron Farah Pahlavi Assen. (administration of Social Educational Assen.), Iran Cultural Foundation, and 34 other educational, health and cultural orgs. Left Iran Jan. 1979; now living in Mexico June 1979.

PAHLAVI, Mohammad Reza; His Imperial Majesty the Shahanshah Aryamehr, Emperor of Iran; b. 26 Oct 1919; m. 1st Princess Fawzia, sister of King Farouk of Egypt 1939 (divorced 1948), one d.; Princess Shahnaz Pahlavi; 2nd Soraya Esfandiari, 1951 (divorced March 1958); 3rd Farah Diba (now Farah Pahlavi, *q.v.*) 1959, two s., Reza Pahlavi and Ali Reza Pahlavi, and two d., Farahnaz and Leila; succeeded to throne on the abdication of his father, Reza Shah Pahlavi, 16 Sept. 1941; personally led the Imperial Iranian Army in liberation of province of Azerbaizhan 1946; left Iran Jan. 1979; Dr. h.c. (Michigan, Columbia, Pennsylvania, California (Los Angeles), Chicago, Harvard, New York and Washington Univs., U.S.A. and Univs. of Aligarh, Bangkok, Malaya, Madras, Punjab, Agra, Beirut, Rio de Janeiro, Bucharest, Sofia, Karlova (Prague), Warsaw, Peshawar, Istanbul and Teheran); 31 foreign decorations incl. Order of Merit (Germany), Order of Merit (Italy), Order of Isabel la Católica (Spain), Royal Victorian Order (U.K.), Order of Al Hussein Ben Ali (Jordan), Order of Pakistan (Pakistan), Order of Independence (Tunisia), Order of Omayyad Syria (Syria), Order of Poland Restored (Poland), Order of Saint Olav (Norway), Order of the Netherlands Lion (Netherlands), Order of the Great Star of Yugoslavia (Yugoslavia), Order of the White Rose (Finland), Order of the Nile (Egypt). *Publications:* Mission for My Country 1961, The White Revolution 1967, Towards the Great Civilization 1978; now living in Mexico June 1979.

PAHR, Willibald P., DR.IUR.; Austrian government official; b. 5 June 1930, Vienna; m. Ingeborg Varga 1961; one s. one d.; ed. Univ. of Vienna and Coll. of Europe, Bruges, Belgium; Asst. in Inst. of Int. Law and Int. Relations, Univ. of Vienna 1952-55; served Fed. Chancellery 1955-76, Head of Section 1968, Head of Dept. 1973, Dir.-Gen. 1975-76; Fed. Minister for Foreign Affairs Sept. 1976-. *Publications:* Der österreichische Status der dauernden Neutralität 1967, several articles in Revue des Droits de l'Homme; co-editor Grundrechte, die Rechtsprechung in Europa (journal). *Address:* Ministry of Foreign Affairs, 1014 Wien, Ballhausplatz 2, Austria.

PAI, EI Whan, B.S. M.B.A.; Korean diplomatist and economist; b. 1907, Kimhae, Kyungsang Namdo; m. Inez Kong 1944; three s. one d.; ed. in Korea and Business Admin. Colleges in U.S.A.; with Straw Brokerage Co., U.S.A. 1938-42; Dept. of Justice, U.S.A. 1942; Office of Censorship, Washington, D.C. 1943; Foreign Econ. Admin., Washington, D.C.; Adviser to Civil Affairs Staging Area, Monterey, Calif.; Adviser to Mil. Govt. Coll., Virginia 1944-45; Asst. Dir. Dept. of Finance, Mil. Govt., Korea, Pres. of Fed. of Financial Assens., Korea, Financial Adviser to Nat. Econ. Board, Mil. Govt. Korea 1946-49; Pres. of Korean Chamber of Commerce, Hawaii, and Pres. of Far Eastern Trading Co., Hawaii 1950; Gov. of Bank of Korea 1960; Amb. to Japan 1961, to Argentina, Chile, Paraguay and Bolivia 1965, to U.K. 1967-71; Amb.-at-Large 1971-; Pres. Overseas Econ. Research Inst. 1973-; mem. Pres.'s Council of Econ. and Scientific Advisers 1974-; Hon. Ph.D. *Leisure interests:* golf, tennis, soccer. *Address:* Overseas Economic Research Institute, C.P.O. Box 5864, Seoul, Republic of Korea.

PAI, Tonse Ananth, B.COM.; Indian financial official and politician; b. 17 Jan. 1922; ed. Sydenham Coll., Bombay, Int. Summer School of Banking, Fed. Repub. of Germany; Deputy Man. Syndicate Bank 1943-44, Gen. Man. 1944-61, Man. Dir. 1962-64, 1966-67, Chair. 1967-70; Chair. Food Corpn. of India 1965-66, Life Insurance Corpn. of India 1970-72; mem. Madras and later Mysore Legislative Assembly, served various Cttees.; mem. Rajya Sabha 1972-77; mem. Lok Sabha for Udupi, Karnataka 1977-; Minister of Railways 1972-73, of Heavy Industry 1973-74, of Steel and Mines 1973-74, of Industry 1974-77, also of Civil Supplies 1974-76; Chair. Study Team of Reserve Bank of India; mem. Agricultural Study Team of Admin. Reforms Comm.; Padma Bhushan 1972; Hon. LL.D. (Karnatak Univ.) 1972; Hon. D.Litt. (Andhra Univ.). *Leisure interests:* travel, reading, music. *Address:* 69 Marine Drive, Bombay 400020, India.

PAI JU-PING; Chinese party official; b. 1906, Shensi; Dir. Gen. Admin. of Handicraft Industry, State Council 1954-58; Sec. CCP Shantung 1958-67; Vice-Gov. of Shantung 1958-63, Gov. 1963-67; criticized and removed from office during Cultural Revolution 1967; Vice-Chair. Shantung Revolutionary Cttee. 1971; Deputy Sec. CCP Shantung 1971, Second Sec. 1974, First Sec. Shantung 1974-; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; First Political Commissar Tsinan Mil. Region, People's Liberation Army 1974-. *Address:* People's Republic of China.

PAIGE, Hilliard Wegner, B.S.; American business executive; b. 2 Oct. 1919, Hartford, Conn.; s. of Commdr. Joseph W. Paige and Ruth Hill Paige; m. Dorothea Magner 1945; one s. two d.; ed. Worcester Polytechnic Inst.; joined General Electric Co. 1941, Gen. Man. Missile and Space Div. 1964, Vice-Pres. 1964, Aerospace Group Exec. 1967-69, Computer Group Exec. 1969-70, Senior Vice-Pres. 1970-71; Pres. General Dynamics Corpn. 1971-73; Chair., Chief Exec., CML Satellite Corpn. 1973-75, Dir., Senior Consultant, Int. Energy Assocs. Ltd., Washington 1976-; Dir. Computer Data Systems Inc.; Trustee Worcester Polytechnic Inst.; mem. Defense Science Board, Nat. Acad. of Eng.; Fellow American Inst. of Aeronautics and Astronautics; NASA Public Service Award, Order of Merit (Italy). *Publications:* articles in professional journals, etc. *Leisure interests:* tennis, skiing, scuba diving. *Address:* 5163 Tilden Street, N.W., Washington, D.C., U.S.A. (Home). *Telephone:* (202) 966-6051 (Home).

PAIK, General Sun Yup; Korean army officer and diplomatist; b. 1920, Seoul; s. of Yun Sang Paik and Hyo Yul Paik (Pang); m. In Suk Paik (Ro) 1944; two s. two d.; ed. Pyongyan Normal School and Mukden Mil. Acad., Manchuria; Korean Constabulary 1946-48; Repub. of Korea Army 1948-60, Chief of Staff 1952-54, 1957-59, Gen. 1953, Chair. Joint Chiefs of Staff 1959-60; Amb. to Repub. of China 1960-61, to France 1961-65, to Canada 1965-69; Minister of Transport, Repub. of Korea 1969-70; Pres. Korea Gen. Chem. Industry Corpn. 1971-; decorations from Korea, France, U.S.A., Belgium, Ethiopia, Thailand, Taiwan, Philippines, Upper Volta, Netherlands. *Leisure interests:* golf, fishing. *Address:* 68 Kyunchi-dong, Chongro-ku, Seoul (Office); 258-97 Itaewon-Dong, Yong San-Ku, Seoul, Republic of Korea (Home).

PAINE, Thomas Otten, M.S., PH.D.; American scientist-executive; b. 9 Nov. 1921, Berkeley, Calif.; s. of Commodore George Thomas Paine and Ada Louise Otten Paine; m. Barbara Helen Taunton Pearse 1946; two s. two d.; ed. Brown Univ., Providence, R.I., and Stanford Univ., Calif.; Submarine Officer, U.S. Navy 1942-46; Man. Gen. Electric Meter and Instrument laboratory 1951-58; Man. Eng. Applications, Gen. Electric Research and Devt. Center 1958-63; Man. Gen. Electric Center for Advanced Studies 1963-68; Deputy Admin. Nat. Aeronautics and Space Admin. March-Oct. 1968, Admin 1968-70; Vice-Pres. Gen. Electric Co. 1970-76; Pres. and Chief Operating Officer, Northrop Corpn. 1976-. *Publications:* Numerous scientific papers. *Leisure interests:* sailing, beachcombing, skin diving, photography, book collecting and oil painting. *Address:* Northrop Corporation, 1800 Century Park East, Los Angeles, Calif. 90067, U.S.A. *Telephone:* (213) 553-6262.

PAIS, Abraham, B.SC., M.SC., PH.D.; American physicist; b. 19 May 1918, Amsterdam, Netherlands; s. of Isayah Pais and Kaatje van Kleef; m. 1st Lila Atwill 1956 (divorced), one s.; m. 2nd Sara Ector Via 1976; ed. Univs. of Amsterdam and Utrecht; Oersted Fellow, Inst. of Theoretical Physics, Copenhagen 1946; Fellow, Inst. of Advanced Study, Princeton 1946-50, Prof. 1950-63; Prof. Rockefeller Univ. 1963-; Visiting Prof. Columbia Univ., New York 1955; Staff mem. Lawrence Radiation Laboratory, Berkeley, Calif. 1958-; Consultant Brookhaven Nat. Laboratory, Upton, N.Y.; Guggenheim Fellow 1960; Fellow American Physical Soc.; mem. Nat. Acad. of Sciences, American Acad. Arts and Sciences; Corresp. mem. Royal Acad. of Sciences, Netherlands; Oppenheimer Prize 1979. *Publications:* Contributions to Physical Review, Physical Review Letters, Physics Letters, Annals of Physics and other physics journals. *Leisure interests:* squash, swimming, mountaineering, theatre. *Address:* Rockefeller University, New York, N.Y. 10021 (Office); 450 East 63rd Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* (212) 360-1930 (Office); (212) PL3-3083 (Home).

PAISH, Frank Walter, M.C., M.A.; British university professor (retd); b. 15 Jan. 1898, Croydon, Surrey; s. of late Sir George Paish; m. Beatrice Marie Eckhard 1927; two s. one d.; ed. Winchester Coll., and Trinity Coll., Cambridge; served in First World War 1916-19; employed in Standard Bank of S. Africa, Ltd., in London and S. Africa 1921-32; Lecturer in Commerce, London School of Econs. 1932-38, Reader 1938-49, Prof. 1949-65, Prof. Emer. of London Univ. 1965-; Deputy Dir. of Programmes, Ministry of Aircraft Production 1941-45; Prof. of Econs. (with special reference to Business Finance) in the Univ. of London 1949-65; Consultant on Econ. Affairs, Lloyds Bank Ltd. 1965-70; Hon. Fellow, L.S.E.

1972-. *Publications:* Insurance Funds and Investment (with G. L. Schwartz) 1934, The Post-War Financial Problem and Other Essays 1950, Business Finance 1953, Studies in ▪ Inflationary Economy 1962, Long-term and Short-term Interest Rates 1966, Editor Benham's Economics, 7th 1964, 8th 1967, 9th edn. (with A. J. Culyer) 1973, How the Economy Works and Other Essays 1970. *Leisure interests:* walking, gardening. *Address:* The Old Rectory Cottage, Kentchurch, Hereford, HR2 0DA, England. *Telephone:* Pontrilas 483.

PAISLEY, Rev. Ian Richard Kyle, D.D., M.P., F.R.G.S.; British minister of religion and politician; b. 6 April 1926; s. of Rev. J. Kyle Paisley and Isabella Paisley; m. Eileen E. Cassells 1956; two s. (twins) three d.; ed. Ballymena Model School, Ballymena Technical High School and S. Wales Bible Coll. and Reformed Presbyterian Theological Coll., Belfast; ordained 1946; Minister, Martyrs Memorial Free Presbyterian Church 1946-; Moderator, Free Presbyterian Church of Ulster 1951-; commenced publishing The Protestant Telegraph 1966; mem. Parl. for N. Antrim 1970-; M.P. for Bannside, Co. Antrim, Parl. of N. Ireland (Stormont) 1970-72, Leader of the Opposition 1972, Chair. Public Accounts Cttee. 1972; mem. N. Ireland Assembly 1973-74; mem. European Parl. 1979-; mem. Constitutional Convention 1975-76; Co-Chair. World Congress of Fundamentalists 1978; mem. Int. Cultural Soc. of Korea 1977. *Publications:* History of the 1859 Revival 1959, Christian Foundations 1960, Ravenhill Pulpit Vol. I 1966, Vol. II 1967, Exposition of the Epistle to the Romans 1968, Billy Graham and the Church of Rome 1970, The Massacre of Saint Bartholomew 1972, Paisley, the Man and his Message 1976, America's Debt to Ulster 1976. *Address:* The Parsonage, 17 Cyprus Avenue, Belfast, BT5 5NT, N. Ireland.

PAJESTKA, Józef, M.L., DR. ECON. SC.; Polish economist and politician; b. 9 March 1924, Milówka, Żywiec district; ed. Warsaw Univ.; worked at Cen. Planning Office, subsequently at State Comm. of Econ. Planning and Comm. of Planning attached to Council of Ministers 1948-56; Dir. Inst. for Econ. Research 1956-65; Dir. Inst. of Planning 1965-68; Extra-ordinary Prof. Univ. of Warsaw 1968-74, Prof. 1974-; Vice-Chair. Planning Comm., Council of Ministers 1968-; Pres. Cen. Board of Polish Econ. Soc. 1966-; Corresp. mem. Polish Acad. of Sciences 1972-; mem. UN Planning Cttee., Exec. Cttee. of Int. Econ. Assen. 1977-; mem. Cen. Cttee. Polish United Workers' Party; Gold Cross of Merit 1956, Chevalier's Cross of Order Polonia Restituta 1964, Commdr. Cross 1969, Prize of UNO 1972 and others. *Publications:* The State and Approach to Future Studies in Socialist Countries 1969, Social Dimensions of Development 1970, Problems, Prospects and Challenge: The Three Socio-Economic Systems towards the End of XXth Century 1972, Examinations of Policy Measures that Contribute to Equity and Social Justice Without Substantial Sacrifice of Economic Growth 1973, Need for Greater World-Wide Rationality 1973, Progress Determinants 1974, Factors and Correlations of the Socio-Economic Progress of the Country 1975. *Address:* Komisja Planowania przy Radzie Ministrów, Plac Trzech Krzyży 3/5, 00-507 Warsaw; ul. Sułkiewicza 7, m. 20, 00-758 Warsaw, Poland (Home).

PAK CHUNG HI, Gen. (*see* Park Chung Hee).

PAL, Benjamin Peary, M.SC., PH.D., F.R.S.; Indian agricultural scientist; b. 26 May 1906, Mukandpur, Punjab; s. of Dr. R. R. and Mrs. I. D. Pal; ed. Rangoon and Cambridge Univs.; Second Econ. Botanist, Imperial Agricultural Research Inst. 1933-37, Imperial Econ. Botanist 1937-50; Designated ▪ Head, Div. of Botany, Indian Agricultural Research Inst. then Dir. 1950-65; fmr. Dir.-Gen. Indian Council of Agricultural Research 1965-71, Scientist Emer. 1972-; fmr. Chair. Special Advisory Cttee. on Food and Agric., Dept. of Atomic Energy; fmr. Pres. Botany and Agric. Sections Indian Science Congress and of many botanical and agricultural socs.; Pres. Indian Science Congress 1970-71; has served on Govt. Educ. Comm., heading its Task Force on Agricultural Educ.; fmr. Chair. All India Fine Arts and Crafts Soc.; helped to establish Postgraduate School at Indian Agricultural Research Inst.; research in wheat breeding and genetics; revision work on Int. Code of Nomenclature of Agricultural and Horticultural Plants; mem. Royal Nat. Rose Soc., Indian Botanical Soc., Royal Horticultural Soc. of London; Foreign mem. All Union Lenin Acad. of Agricultural Sciences 1967-; Hon. mem. Japan Acad., Acad. d'Agriculture de France; Fellow, Indian Nat. Science Acad., (Pres. 1975-76), Linnean Soc. of London, Royal Soc., London; Awards include Padma Shri 1958, Rafi Ahmed Kidwai Memorial Prize of the Indian Council of Agricultural Research 1960, Srinivisa Ramanujan Medal, Nat. Inst. of Sciences of India 1964, Padma Bhushan 1968, Birbal, Sahni Medal of Indian Botanical Soc. 1962; Hon. D.Sc. (Punjab, Sardar Patel, Uttar Pradesh, Haryana Univs). *Publications:* Beautiful Climbers of India, Charophyta, The Rose in India, Wheat, Flowering Shrubs 1968, Bougainvilleas 1974; and over 160 scientific papers. *Leisure interests:* rose breeding, painting. *Address:* P-11 Hauz Khas Enclave, New Delhi 16, India. *Telephone:* 626145.

PÁL, Lénárd; Hungarian physicist; b. 7 Nov. 1925, Gyoma; s. of Imre Pál and Erzsébet Varga; m. Angela Danóci 1963; one d.; ed. Budapest and Moscow Univs.; Dept. Head, Central Research Inst. for Physics, Budapest 1953-65, Deputy Dir. 1956-69, Dir. 1970-74, Dir.-Gen 1975-77; Prof. of Nuclear Physics, Eötvös Lóránd Univ. Budapest 1961-77; Pres. State Office for Tech. Devt. 1978-, Nat. Atomic Energy Comm. 1978-; mem. Science Policy Cttee., Council of Ministers 1978-; Corresp. mem. Hungarian Acad. of Sciences 1971-73, mem. 1973-; Foreign mem. Acad. of Sciences of the U.S.S.R. 1976-; Gold Medal, Order of Labour 1956, 1968; Kossuth Prize 1962; Gold Medal of the Hungarian Acad. of Sciences 1975, Red Banner Order of Labour (U.S.S.R.) 1975; Eötvös Lóránd Physical Soc. Medal 1976. *Publications:* Approximately 275 articles in Hungarian and foreign scientific journals. *Address:* H-1374 Budapest, P.O. Box 565, Hungary. *Telephone:* 184-351.

PALADE, George Emil; American (Romanian-born) scientist; b. 19 Nov. 1912, Iași, Romania; s. of Emil Palade and Constanța Cantemir; m. 1st Irina Malaxa 1940 (deceased); m. 2nd Marilyn Farquhar 1970; one s. one d.; ed. Hasdeu Lyceum, Buzău, Univ. of Bucharest; went to the U.S.A. 1946; naturalized U.S. citizen 1952; Instructor, Asst. Prof. of Anatomy, School of Medicine, Univ. of Bucharest 1935-45; Visiting Investigator, Asst. Assoc., Prof. of Cell Biology, Rockefeller Univ.; Prof. of Cell Biology, Yale Univ. 1973–; Fellow American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences; Albert Lasker Basic Research Award 1966, Hurwitz Prize 1970, Nobel Prize for Medicine 1974. *Leisure interest:* history. *Address:* Section of Cell Biology, Yale University School of Medicine, 333 Cedar Street, New Haven, Conn. 06510, U.S.A. *Telephone:* (203) 436-2376.

PALAMARCHUK, Luka Fomich; Soviet journalist and diplomatist; b. 6 Sept. 1906, Troshcha, Ukraine; ed. Kiev Univ.; CPSU 1928-; Dir. of ▪ School 1928-29; Head of Dept., Editorial Offices Chervony Krai (newspaper), Vinnitsa 1929-30; Deputy Ed. and Ed., regional newspapers 1930-37; Deputy Ed. Perets (Kiev satirical journal) 1937-41; Chair. Radio Cttee., Ukrainian Council of People's Commissars 1941-42; Ed. Radyanska Ukraina (newspaper) 1942-48, 1949-52; Diplomatic Service 1952-; Deputy Foreign Minister of Ukrainian S.S.R. 1952-54; Minister of Foreign Affairs of Ukrainian S.S.R. 1954-65; Amb. to Morocco 1965-72; Red Banner of Labour, Patriotic War and other awards. *Address:* c/o Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

PALAMENGHI-CRISPI, Francesco; Italian banking official; b. 28 Dec. 1917, Rome; m.; four c.; ed. Univ. of Rome; with Bank of Italy 1946-49, Dir. 1963; Sec., Somali Currency Board 1950-59, first Gen. Dir. 1959-60; Prof. of Politics and Financial Econ. Univ. of Mogadishu, Somalia 1959-66; first Man. Dir. and Deputy Pres. Somali Nat. Bank 1960-66; Alt. Gov. for Somalia for Int. Bank for Reconstruction and Devt. (IBRD)—World Bank 1961-66; mem. Gen. Banking Panel of Experts in Trinidad and Tobago, Int. Monetary Fund (IMF) 1966-67; Temp. Alt. Gov. IMF 1969, 1970, 1972, IBRD 1969; Exec. Dir. IMF for Italy (also Malta, Portugal and Spain) 1967-76; mem. Italian Econ. Del to Peace Conf., Paris 1946; Lecturer, Univ. of Rome 1946-56. *Address:* c/o International Monetary Fund, 19th and H Streets, N.W., Washington, D.C. 20431, U.S.A. *Telephone:* (202) 477-3301.

PALAZZINI, H.E. Cardinal Pietro, S.T.D., J.U.D.; Vatican ecclesiastic; b. 19 May 1912, Piobbico, Pesaro; ed. Lateran Univ.; ordained ▪ Dec. 1934; advocate of the Sacred Roman Rota; fmr. Asst. Dir. Pontificio Seminario Maggiore at Lateran Univ. 1945-46; Under-Sec. Sacred Congregation for the Religious 1956-58; Sec. Sacred Congregation for the Clergy 1962; created Cardinal by Pope Paul VI 1973. *Publications:* Il Monoteismo dei Padri Apostolici 1946, Indissolubilità del Matrimonio 1952, Il Diritto Strumento di Riforma in S. Pier Damiani 1956, Theologia Moralis (with A. Lanza) 4 vols. 1953-63, Principii di Teologia Morale (Principles of Moral Theology) 3 vols. 1954-62, Morale Cattolica e Morale Protestante 1961, La Coscienza 1963, Morale del'Attualità 1963, S. Pier Damiani il Superfluo 1972, Vita Sacramentale (3 vols.) 1972-75, Dizionario dei concili 6 vols. 1963-67, Dictionarium morale et canonicum 4 vols. 1962-68 (Dir.); Vita ▪ virtu cristiane 1975, Avviamento allo studio della morale Cristiana 1976. *Address:* Via Proba Petronia 83, Rome, Italy.

PALENCIA, Benjamin; Spanish painter; b. 1903; ed. primary schools at Barrax (La Mancha), private schools in Madrid; taught himself to paint; first One-Man Show Madrid Museum of Modern

Art 1923; yearly exhbns. since that year in Madrid, other Spanish cities and in America; rep. at Biennales of Venice and São Paulo; Exhbns. Paris (Galerie Pierre) 1933, New York (Harriman Gallery) 1934, Munich (Kunstverein), Düsseldorf (Malcasten) 1958, Paris 1959; Primera Medalla de Bellas Artes, Gran Premio 1st Hispano-American Art Biennale. *Publications:* Niños, Niños de mi molino, Italia con B. Palencia, Giotto, raíz viva de la Pintura (Cruz y Raya), Pintores Modernos: Pinturas de B. Palencia. *Address:* Sagasta 19, Madrid, Spain.

PALEWSKI, Gaston; French politician and diplomatist; b. 20 March 1901, Paris; m. Violette de Talleyrand-Périgord, Duchesse de Sagan et Dino 1969; ed. Univs. of Paris and Oxford; on staff of Resident Gen. in Morocco 1924-25; successively Chef du Cabinet of Ministry for Colonies and Justice; Dir. du Cabinet Min. of Finance 1929-39; Dir. Political Affairs, Free France 1940; Commdt. Free French Forces in Ethiopia and E. Africa 1941-42; Dir. du Cabinet to Gen. de Gaulle 1942-46; Foreign Affairs specialist, Exec. Cttee. Reassemblement du Peuple Français (RPF) 1947; Deputy (Seine) 1951-56; Vice-Pres. RPF Parl. group; formerly 1st Deputy Pres. Nat. Assembly; Minister, Deputy to the Prime Minister 1955-56; Amb. to Italy 1957-62; Minister of State for Science, Atomic Questions and Space 1962-65; Pres. and mem. Constitutional Council 1965-74; Dir. Société C.I.T.-Alcatel 1974-; mem. Inst. Acad. des Beaux-Arts 1968-; mem. Arts Council of Nat. Museums 1974-; Hon. Pres. Revue des Deux Mondes; Hon. Fellow, Worcester Coll., Oxford 1974; Grand Croix Légion d'honneur, Croix de guerre, Compagnon de la Libération. *Publications:* Hier et Aujourd'hui 1975, Le Miroir de Talleyrand 1976. *Address:* 1 rue Bonaparte, 75006 Paris; Château de Marais, 91630 Saint-Chéron, France. *Telephone:* DAN-91-35 (Paris); 491-91-26 (Saint-Chéron).

PALEY, William S., B.S.; American corporation executive; b. 28 Sept. 1901; ed. Univ. of Chicago, Univ. of Pennsylvania; Chair. CBS Inc. 1946-, retd. as Chief Exec. Officer 1977; Pres. and Dir. William S. Paley Foundation Inc.; Co-Chair. and Trustee Emer. N. Shore Univ. Hospital 1954-73, Dir. 1949-; Hon. Dir. Resources for the Future Inc. 1969-; Trustee Museum of Modern Art 1937-, Pres. 1968-72, Chair. 1972-; Life Trustee, Fed. of Jewish Philanthropies, New York, Trustee Emer. Colombia Univ. 1973-. *Address:* 51 West 52nd Street, New York, N.Y. 10019, U.S.A.

PALFREY, John Gorham; American university professor; b. 12 March 1919; ed. Milton Acad. and Harvard Univ.; admitted to D.C. Bar 1948; Office of Gen. Counsel, Atomic Energy Commission 1947-50; mem. Inst. Advanced Study, Princeton 1950-52; Lecturer, Columbia School of Law 1952-54, Assoc. Prof. 1954-56, Prof. 1956-62, Dean Columbia Coll. 1958-62; mem. U.S. Atomic Energy Comm. 1962-66; Prof. of Law and History, Columbia Univ. 1967-; Guest Scholar, Brookings Inst., Washington 1977-78; Consultant Arms Control and Disarmament Agency 1975-; Fellow, Inst. of Politics, Harvard Univ. 1966-67. *Address:* 15 Claremont Avenue, New York, N.Y. 10027, U.S.A.

PALKHIVALA, Nani Ardeshir; Indian diplomatist, lawyer and businessman; b. 16 Jan. 1920, Bombay; s. of Ardeshir Nanabhoy and Sheherbanoo A. Palkhivala; m. Nargesh H. Matbar 1945; ed. St. Xavier's Coll. and Govt. Law Coll., Bombay; Senior advocate, Supreme Court of India; Amb. to U.S.A. Oct. 1977-; fmr. Chair. Assoc. Cement Cos. Ltd., Voltas Ltd., Indian Resort Hotels Ltd.; fmr. Vice-Chair. Tata Iron and Steel Co. Ltd., Tata Eng. and Locomotive Co., Assoc. Bearing Co.; Prof. Law, Calcutta Univ.; Pres. Forum of Free Enterprise; Chair. Income-tax Appellate Tribunal Bar Asscn.; elected Hon. mem. Acad. of Political Science, New York 1975; Hon. LL.D. (Princeton) 1978. *Publications:* The Law and Practice of Income-tax (co-author) 7th edn. 1976, Taxation in India 1960, Our Constitution Defaced and Defiled 1975. *Leisure interests:* motoring, history, literature. *Address:* Embassy of India, 2107 Massachusetts Avenue, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* (202) 265-5050.

PALLAS, Hans-Lothar, DR.RER.POL; German company executive; b. 14 Aug. 1921, Ratingen; s. of Otto and Doris Pallas; m. Marianne Terhardt 1954; one s.; ed. Univs. of Clausthal, Hanover, Cologne; entered Wintershall AG 1949, mem. Man. Board 1967-; mem. Board, Oil and Gas Industry Assen., Gas and Water Supply Industry Assen.; Chair. Supervisory Board, ARAL AG 1975-77. *Leisure interest:* archaeology. *Address:* Westerwald-Strasse 1, Kassel, Federal Republic of Germany.

PALLIN, Franz; Austrian judge; b. 4 April 1909, Graz; s. of Friedrich and Olga Pallin; m. Herta Pallin 1954; one s. one d.; ed. Univ. of Graz; Judge 1936-; Public Prosecutor 1945; Generalanwalt 1951; Generalprokurator 1966-71; Vice-Pres. Supreme Court 1971, Pres. 1972-. *Address:* Justizpalast, Museumstrasse 12, Vienna 1 (Office); Vienna 8, Breitenfeldergasse 14, Austria (Home). *Telephone:* 934511 (Office).

PALLISER, Sir (Arthur) Michael, G.C.M.G., M.A.; British diplomatist; b. 9 April 1922, Reigate, Surrey; s. of late Admiral Sir Arthur Palliser, K.C.B., D.S.C., and of Lady Palliser (née Margaret E. King-Salter); m. Marie M. Spaak (d. of late Paul-Henri Spaak); three s.; ed. Wellington Coll. and Merton Coll., Oxford; entered diplomatic service 1947; Foreign Office 1947-49, 1951-56; posted to Athens 1949-51, Paris 1956-60; Head of Chancery, Dakar 1960-62; Counsellor and seconded to Imperial Defence Coll. 1963; Head of Planning Staff, Foreign Office 1964; a Private Sec. to Prime Minister 1966-69; Minister, Paris 1969-71; Amb. and Head, U.K. Del. to EEC 1971-72; Amb. and U.K. Perm. Rep. to European Communities 1973-75; Perm. Under-Sec., Head of Diplomatic Service Oct. 1975-; Chevalier, Order of Orange-Nassau, Légion d'honneur. *Address:* c/o Foreign and Commonwealth Office, King Charles St., London, S.W.1, England.

PALLOTTINO, Massimo, D.LITT.; Italian university professor; b. 9 Nov. 1909, Rome; s. of Carlo Pallottino and Margherita Perotti; m. Maria Sechi 1936; one s. two d.; ed. Univ. of Rome; Insp., Dept. of Antiquities of Rome 1933; Dir. Museo Nazionale di Villa Giulia, Rome and excavations of Cerveteri 1937; Lecturer and later Acting Prof. Univ. of Rome 1938; Prof. of Classical Archaeology, Univ. of Cagliari 1940; Prof. of Etruscology and Italic Antiquities, Univ. of Rome 1945; Pres. Inst. of Etruscan Studies, Vice-Pres. Italian Inst. of Prehistory; mem. Directorate Int. Assen. for Classical Archaeology; mem. Accademia Nazionale dei Lincei, Pontificia Accademia di Archeologia, Acad. des Inscriptions et Belles Lettres (Institut de France), Deutsches Archäologisches Institut, Soc. Antiquaries of London, Prehistoric Soc., London; Dir. Studi Etruschi, Archeologia Classica. *Publications:* Elementi di Lingua Etrusca 1936, Tarquinia 1937, Etruscologia 1942, 1947, 1955, 1968, L'Arco degli Argentari 1946, L'Origine degli Etruschi 1947, La Civilisation Etrusque 1950, La Sardegna Nuragica 1950, Etruscan Painting 1952, Testimonia Linguae Etruscae 1954, 1968, The Etruscans 1956, Che cos' è l'Archeologia 1963, 1968, Civiltà Artistica Etrusco-Italica 1971. *Address:* 9 Via dei Redentoristi, 00186 Rome, Italy. *Telephone:* 6569364.

PALME, (Sven) Olof Joachim, B.A., L.L.B.; Swedish politician; b. 30 Jan. 1927, Stockholm; m. Lisbeth Beck Friis 1956; three s.; ed. Kenyon Coll., Ohio, and Univ. of Stockholm; Special Counsel to Swedish Prime Minister 1953-63; mem. of Parl. 1956-; mem. Exec. Swedish Social Democratic Youth and Workers Educational Assen. 1955-61; Minister without Portfolio 1963-65; Minister of Communications 1965-67, of Educ. and Culture 1967-69; Prime Minister 1969-76; mem. Exec. Swedish Social Democratic Party 1964-, Chair. 1969-; mem. Swedish Del. to UN 1961, Ind. Comm. on Int. Devt. Issues 1977-; Chair. Comms. on Student Welfare 1960-63; Hon. Ph.D. (Kenyon Coll.) 1970. *Address:* Lövångersgatan 31, Vållingby, Sweden.

PALMÉN, Erik Herbert, M.SC. D.PHIL.; Finnish meteorologist and oceanographer; b. 31 Aug. 1898, Vasa; s. of Eskil Heribert and Sally Palmén; m. Synnöve Maria von Hellens 1923; one s. one d.; ed. Univ. of Helsinki; Asst. Finnish Inst. of Marine Research 1922, Dir. 1939; Prof. of Meteorology, Univ. of Helsinki 1947; Prof. and mem. Acad. of Finland 1948-; Visiting Prof. Univ. of Chicago 1946-48, 1949-50, 1952 and 1956, Univ. of Calif. 1954; main fields of research include tropical and extra-tropical cyclones, jet stream, structure of atmospheric fronts, general atmospheric circulation, interaction between atmosphere and oceans, and ocean currents; Pres. Finnish Scientific Society 1958; Symons Memorial Gold Medal, Royal Meteorological Society 1957, Carl-Gustaf Rossby Award, American Meteorological Soc. 1960, Buys-Ballot Gold Medal, Royal Netherlands Academy of Sciences and Letters 1964; Rossby Prize, Swedish Geophysical Soc. 1966; IMO Prize, World Meteorological Org. 1969. *Address:* Institute of Meteorology, University of Helsinki, Helsinki, Finland.

PALMER, Arnold Daniel; American professional golfer and business executive; b. 10 Sept. 1929, Latrobe, Pa; s. of Milfred J. and Doris Palmer; m. Winifred Walzer 1954; two d.; ed. Wake Forest Univ., N.C.; U.S. Coast Guard 1950-52; U.S. Amateur Golf Champion 1954; professional golfer 1954-; winner of 79 professional titles, incl. British Open 1961, 1962, U.S. Open 1960, U.S. Masters 1958, 1960, 1962, 1964, and more than $3 million in prize money; mem. U.S. Ryder Cup team 1961, 1963, 1965, 1967, 1971, 1973, Captain 1963, 1975; Pres. Arnold Palmer Enterprises (div. of Nat. Broadcasting Co.), Arnold Palmer Cadillac auto agency, Latrobe Country Club and Bay Hill Club, Fla.; mem. board of dirs. Progroup Inc., Tenn., Westmoreland County (Pa.) Airport Authority, Latrobe Area Hospital, Hon. Nat. Chair. Nat. Foundation March of Dimes 1971-76; Hon. LL.D.; Athlete of Decade, Associated Press 1970; Sportsman of the Year, Sports Illustrated 1960; Hickok Belt, Athlete of Year 1960. *Publications:* My Game and Yours 1965, Situation

Golf 1970, Go for Broke 1973, Arnold Palmer's Best 54 Golf Holes 1977. *Leisure interests:* bridge, occasional hunting. *Address:* One Erieview Plaza, Suite 1300, Cleveland, Ohio 44114 (Office); P.O. Box 52, Youngstown, Pa. 15696, U.S.A. (Home and Personal Office). *Telephone:* (216) 522-1200 (Office); (412) 537-7751 (Home).

PALMER, H(arold) Bruce; American public official; b. 16 Nov. 1908, Imlay City, Mich.; s. of Harry E. and Louise (Braman) Palmer; m. 1st Dorothy Beck 1931 (died 1967), 2nd Jean Reynolds Tuerk 1968; two d.; ed. Culver Mil. Acad. and Univ. of Michigan; Mutual Benefit Life Insurance Co. 1931-62, Vice-Pres. (Agencies) 1947-48, Admin. Vice-Pres. 1949-50, Exec. Vice-Pres. 1951-53, Pres. 1953-62; Pres. The Conference Board 1963-70, Council of Better Business Bureaus 1971-73; mem. Board Int. Exec. Services Corps 1964-, Univ. of Mich. Devt. Council 1969-; Trustee Inst. for the Future, Population crisis Comm., Pacific Tropical Botanical Garden, 1971- (Chair. 1975-76), Advisory Council of Los Angeles Orthopedic Hospital 1975-; Assoc. Huntington Library, San Marino, Calif.; Dir. First Boston Corpn., CPC Int. 1971-, Hon. Chair. Board for Fundamental Educ.; several awards and hon. degrees. *Address:* 1235 Hillside Road, Pasadena, Calif. 91105, U.S.A.

PALMER, Leonard Robert, M.A., D.PHIL., PH.D.; British philologist; b. 5 June 1906, Bristol; s. of William Henry Palmer and Florence Palmer (née Roberts); m. Elisabeth Weil 1930; one d.; ed. Canton High School and Univ. Coll., Cardiff, Trinity Coll., Cambridge and Vienna Univ.; Asst. Lecturer in Classics, Manchester Univ. 1931-35, Lecturer 1935-41; attached to Foreign Office 1941-45; Prof. of Greek, Head, Department of Classics, King's Coll., London Univ. 1945-52; Fellow of Worcester Coll. and Prof. of Comparative Philology, Oxford Univ. 1952-72, Emer. Fellow and Prof. Emer. 1972-; Hon. Sec. Philological Soc. 1947-51, Pres. 1957-60; Corresp. mem. Deutsches Archäologisches Inst. *Publications:* Translation of E. Zeller's Outlines of the History of Greek Philosophy 1931; Introduction to Modern Linguistics 1936, A Grammar of the Post-Ptolemaic Papyri, Vol. I (Publications of the Philological Soc.) 1945, The Latin Language 1954, Mycenaeans and Minoans 1961, 1965, The Interpretation of Mycenaean Texts 1963, Homer: Language and Dialect (in A Homeric Companion) 1962, The Find Places of the Knossos Tablets 1963, A New Guide to the Palace of Knossos 1969, The Penultimate Palace of Knossos 1969, Descriptive and Comparative Linguistics: a Critical Introduction 1972, La Lingua Latina 1977, The Greek Language 1979, La Linguistica Descrittivae Comparativa 1979; numerous articles in British and foreign learned periodicals. *Leisure interests:* gardening, mountain sports, archaeology, music. *Address:* A-60-73 Sistrans 139, Tirol, Austria. *Telephone:* Innsbruck 70702.

PALTHEY, Georges Louis Claude, D.IUR.; French United Nations official (retd.); b. 26 Aug. 1910, Chalon-sur-Saône; m. 1st Marie Louise Bourdin 1938 (died 1964), 2nd Jacqueline de Roll de Hemmenholz; one s.; ed. Univs. of Lyon and Paris; Finance Officer, Control of Expenditure Commitments, French Ministry of Finance 1934-42; Chief Secretariat, Gen. Dept. of Econ. Control 1942-45; Deputy Financial Comptroller, French Missions in Great Britain 1945-47; Deputy Dir., Personnel UN 1947, Dir. 1948-54; Deputy Dir., European Office of UN, Geneva 1954-65; Deputy Dir.Gen. UN Office, Geneva 1965-73; Croix de guerre. *Publications:* Le Contrôle préalable des Finances publiques. *Leisure interests:* dendrology, viticulture. *Address:* 2 rue des Granges, Geneva, Switzerland. *Telephone:* 21-32-76.

PAMPLIN, Robert Boisseau; American business executive; b. 25 Nov. 1911, Sutherland, Va.; s. of John R. Pamplin and Pauline Beville; m. Mary K. Reese 1940; one s.; ed. Virginia Polytechnic Inst. and Northwestern Univ.; Georgia-Pacific Corpn. (forest products) 1934-76, Dir. 1955-78, Pres. 1957-75, Chair. and Chief Exec. 1968-76; Chair. R. B. Pamplin Corpn. 1976-; Pres. Ross Island Sand & Gravel Co., K. F. Jacobson & Co., Inc. 1976-; Dir. Transamerica Corpn. 1975-; Trustee, Lewis and Clark Coll., Portland 1956-, Chair. Board of Trustees 1963-; mem. Board of Visitors, Virginia Polytechnic Inst. 1971-; Hon. LL.D. (Univ. of Portland, Ore.); Hon. L.H.D. (Warner Pacific Coll.). *Leisure interests:* hunting, fishing, bridge. *Address:* 900 S.W. Fifth Avenue, Portland, Ore. 97204 (Office); 404 S.W. Edgecliffe Road, Portland, Ore. 97219, U.S.A. (Home).

PANĂ, Gheorghe; Romanian politician; b. 9 April 1927, Ghergheşta, Prahova County; m. Antoneta Pană; one d.; ed. Acad. of Economic Studies, Bucharest; joined Communist Youth Union 1944, Romanian Communist Party (RCP) 1947; Sec. Bucharest RCP Cttee. 1959-64; First Sec. Braşov Regional RCP Cttee. 1966-68, Braşov County Cttee. of RCP 1968-69; mem. Exec. Cttee. of the Cen. Cttee. of RCP 1969-, Perm. Presidium of Cen. Cttee. 1969-74; Sec. Central Cttee. of RCP 1969-75; mem. Grand Nat. Assembly 1969-, Nat. Council of Socialist Unity Front 1968-, State Council 1969-75; Chair. Gen. Trade Union Confed. 1975-; Minister of Labour 1978-79; Mayor of Bucharest Feb. 1979-; Head of RCP Bucharest Feb. 1979-; Hero of Socialist Labour 1971. *Address:* General Trade Union Confederation, 14 Aleea Stefan Gheorghiu, Bucharest, Romania.

PANARD, Pierre Marie Maurice; French public servant; b. 1 Nov. 1916, Dun le Palestel; m. Monique de Rigaud de Vaudreuil; ed. Univ. de Paris Faculté de Droit and Ecole Libre des Sciences Politiques; Clerk, Ministry of Finance 1941-46, Civil Admin. 1946-47; transferred to Finance Comm. of Nat. Assembly 1947-49, Chief, Tech. Services 1961-62; Chief, Office Sec. of State for Marine 1949-50; Financial Comptroller 1956-61; Dir. Office, Minister of Public Works and Transport 1962-64; Chief, Central Bureau of Finance 1964; Dir.-Gen. Compagnie Générale Transatlantique 1964-74; Pres., Dir.-Gen. Compagnie Générale Entretien et de Réparations; Officier, Légion d'honneur, Commdr. Ordre national du Mérite, Croix de guerre. *Leisure interest:* horse breeding. *Address:* 3 rue Agrippa d'Aubigné, 75004 Paris, France. *Telephone:* 277-5991.

PANAS, Eustace G., PH.D.; Greek professor of economics; b. Nov. 1924, Athens; s. of George and Helen Panas; m. Athena Kossifakis 1958; one d.; ed. Nat. Univ. of Athens and Harvard Univ.; joined Ministry of Co-ordination 1950, Nat. Accounts Div. 1951-61, Dir. Fiscal and Monetary Matters Div. 1961-69; Sec., Ministerial Economic Cttee. 1962-63; Sec., Nat. Council of Econ. Policy 1967-69; Statistician, UN Statistical Office, Nat. Accounts Branch 1956, 1957, 1958-59; mem. Greek Nat. Tobacco Board, Prices and Incomes Comm., Central Planning Cttee.; Assoc. Prof. Econs., Graduate School of Industrial Studies 1968-72; Chair. Capital Market Cttee., 1967-74; Alt. Gov., IMF 1969-74; Chair. Export Credit Guaranty Council 1969-74; Deputy Gov. Bank of Greece 1969-74; Prof. of Econs., Graduate School of Econ. and Business Science 1972-75; IMF Research Adviser to Cen. Bank of Mauritania, Nouakchott 1975-; mem. dels to OCED, NATO, IMF; mem. American Econ. Assen., American Statistical Assen., Royal Econ. Soc., Greek Econ. Soc., Int. Assen. for Research in Income and Wealth. *Publications:* articles and papers in Greek and English on economic topics. *Address:* 6 Naiadon Street, Athens 516, Greece. *Telephone:* 717-177 (Home).

PANAYOTACOS, Constantine P., LL.D.; Greek diplomatist; b. 1918, Zürich, Switzerland; s. of late Panayotis Panayotacos; m. Irene Arvanitis 1957; one s.; ed. Univ. of Athens; Prof. of Int. Law, Univ. of Athens 1948; joined Diplomatic Service, held several diplomatic posts 1950-67, including Sec., Greek Embassy, Washington, D.C. 1959-61, Counsellor, Perm. Mission to UN 1965, Counsellor, Washington, D.C. 1965; Amb. to India, concurrently accred. to Nepal, Ceylon, Thailand, Burma, Singapore, Malaysia, Indonesia, Repub. of Viet-Nam 1968; Perm. Rep. to Council of Europe 1969-70; Amb. to Cyprus 1971; Under-Sec. of State for Foreign Affairs 1972; Perm. Rep. to UN 1973-74; Amb to U.S.A. 1974; Grand Officer Order of George I, Order of the Phoenix; Officer Order of the Crown (Belgium), Order of the Oak (Luxembourg); Grand Cross Order of Holy Sepulchre and several others. *Leisure interests:* reading, fishing, music. *Address:* c/o Ministry of Foreign Affairs, Athens, Greece.

PANYAOTAKIS, Konstantinos A.; Greek planning consultant; b. 1922, Athens; runs own planning office working on major projects (regional and town planning, buildings, utility services, archaeological restorations, landscaping) in Greece, Iraq, Saudi Arabia, Lebanon, Iran, Libya, Jordan etc.; mem. Tech. Chamber of Greece, American Soc. of Civil Engineers, Associated Consulting Engineers, Union of Iraqi Architects and Engineers, Nat. Theatre Org. of Greece; Minister of Culture and Sciences Aug. 1972-73. *Address:* c/o Ministry of Culture and Sciences, Athens, Greece.

PANCHEN LAMA (Panchen Erdeni); Tibetan religious and political leader; b. 1938 in Chinghai, China; installed as Panchen Lama at Tashilumpo Monastery 1944, not accepted in Tibet, installed as Panchen Lama in new ceremony at Kumbun Monastery, Chinghai 1949; first visited Tibet 1952, in charge of Shigatse subregion; mem. NPC 1954-64, mem. Standing Cttee. 1961-64; Vice-Chair. CPPCC 1954-64; mem. Sino-Soviet Friendship Assen. 1954; Vice-Chair. Preparatory Cttee. for Tibetan Autonomous Region 1956-59; Hon. Chair. Chinese Buddhist Assen. 1953-; Chair. Tashilumpo Monastery Dem. Admin. Cttee. 1961; denounced as reactionary by Chou En-lai 1964; Provisional Chair. Preparatory Cttee. for Tibetan Autonomous Region, after flight of Dalai Lama to India, March 1959-65. *Address:* Shigatse, Autonomous Region of Tibet, China.

PANDIT, Vijaya Lakshmi; Indian politician and diplomatist; b. 18 Aug. 1900, Allahabad; d. of Motilal and Sarup Rani Nehru;

sister of the late Pandit Jawaharlal Nehru (Prime Minister of India, 1947-64); m. Ranjit S. Pandit 1921; three d.; ed. privately; joined Non-Co-operative Movement, imprisoned for one year 1931; mem. Allahabad Municipal Board 1936, Chair. Educ. Cttee. Municipal Board; Minister of Local Self-Govt. and Public Health, Uttar Pradesh Govt. 1937-39, 1946-47 (1st woman Minister); joined Congress Party; sentenced to three terms of imprisonment 1932, 1941 and 1942; detained Aug. 1942-June 1943; Leader of Indian Del. to UN 1946-51, 1963; Amb. to U.S.S.R. 1947-49, to U.S.A. 1949-51; Pres. UN Gen. Assembly 1953-54; High Commr. in U.K. and Amb. to Ireland 1955-61, concurrently Amb. to Spain 1958-61; Gov. of Maharashtra 1962-64; Indian Rep. Human Rights Comm. 1978; mem. Lok Sabha 1952-54, 1964-68; left Congress Party to join Congress for Democracy (now part of Janata Party) 1977-; Hon. D.C.L. (Oxford). *Leisure interests:* cooking, reading. *Address:* 181-B Rajpur Road, Dehra Dun, Uttar Pradesh, India.

PANDOLFI, Filippo Maria, PH.D.; Italian politician; b. 1 Nov. 1927, Bergamo; fmr. company dir.; mem. Chamber of Deputies for Brescia-Bergamo 1968-; mem. Comm. on Finance and the Treasury; fmr. Under-Sec. of State in Ministry of the Budget; Minister of Finance 1976-78, of the Treasury March 1978-. *Address:* Ministry of the Treasury, Rome, Italy.

PANICHAS, George Andrew, F.R.S.A., M.A., PH.D.; American university professor and writer; b. 21 May 1930, Springfield, Mass.; s. of Andrew and Fannie Dracouli Panichas; unmarried; ed. Springfield Classical High School, American Int. Coll., Trinity Coll. and Nottingham Univ., England; Instructor in English, Univ. of Maryland 1962, Asst. Prof. 1963, Assoc. Prof. 1966, Prof. 1968-; lectures on the modern novel, the British novel between the two world wars and writes in the area of comparative literature and on interdisciplinary subjects (politics, history, philosophy and religion). *Publications:* Adventure in Consciousness: The Meaning of D. H. Lawrence's Religious Quest 1964, Epicurus 1967, Mansions of the Spirit: Essays in Literature and Religion (Editor) 1967, Promise of Greatness, The War of 1914-1918 (Editor) 1968, The Politics of Twentieth-Century Novelists (Editor) 1971, The Reverent Discipline: Essays in Literary Criticism and Culture 1974, The Burden of Vision: Dostoevsky's Spiritual Art 1977, The Simone Weil Reader (Editor) 1977; also numerous articles, translations and reviews for books and journals published in U.S. and Europe; Editorial Adviser, Modern Age: A Quarterly Review 1972-77, Assoc. Editor 1978-. *Leisure interests:* hiking, keeping physically fit, listening to music. *Address:* Department of English, University of Maryland, College Park, Maryland 20742 (Office); 4313 Knox Road, Apartment 402, College Park, Maryland 20740, U.S.A. (Home). *Telephone:* (301) 454-4150 (Office); (301) 779-6894 (Home).

PANOFSKY, Wolfgang Kurt Hermann, A.B., PH.D.; American scientist; b. 24 April 1919, Berlin, Germany; s. of Erwin Panofsky and Dorothea Mosse Panofsky; m. Adele Dumond 1942; three s. two d.; ed. Princeton Univ. and California Inst. of Technology; in U.S.A. 1934-; mem. of staff Radiation Laboratory, Calif. Univ. 1945-51; Asst. Prof. 1947-48, Assoc. Prof. 1948-51; Prof. Stanford Univ. 1951-; Dir. High Energy Physics Laboratory 1953-61, Dir. Linear Accelerator Center 1962-; Consultant Office of Science and Technology, Executive Office of Pres. 1965-; Consultant, Arms Control and Disarmament Agency 1959-; mem. President's Science Advisory Cttee. 1960-64; mem. Nat. Acad. of Sciences, American Physical Soc. (Vice-Pres. 1974); Hon. D.Sc. (Case Inst. of Tech. and Univ. of Saskatchewan); Lawrence Prize, U.S. Atomic Energy Comm. 1961; Calif. Scientist of Year Award 1967; Nat. Medal of Science 1969, Franklin Medal 1970. *Leisure interest:* music. *Address:* Stanford Linear Accelerator Center, Stanford University, P.O. Box 4349, Stanford, Calif. 94305 (Office); 25671 Chapin Avenue, Los Altos Hills, Calif., U.S.A. (Home). *Telephone:* 854-3300.

PANSA CEDRONIO, Paolo, LL.D., LIC.POL.SC.; Italian diplomatist; b. 15 Nov. 1915, Naples; s. of Ciro Pansa Cedronio and Elina Stammelluti; unmarried; ed. Univs. of Naples and Florence; entered Italian diplomatic service 1940; Sec., Italian Embassy, Washington 1945-49; Sec., Italian Del. to NATO, London and Paris 1951-55; Head of Service, Ministry of Foreign Affairs, Rome 1955-61; Minister, Italian Embassy, London 1961-66; Amb. to Chile 1966-70, to Canada 1970-71; Deputy Sec.-Gen. NATO 1971-78; Croce di Guerra, Cavaliere di Gran Croce al Merito della Repubblica Italiana, Gran-Cruz Orden al Mérito de Chile, Officier de la Légion d'honneur, etc. *Address:* c/o Ministry of Foreign Affairs, Farnesina, Rome 00100, Italy.

PANT, Apasaheb Balasaheb; Indian politician and diplomatist; b. 11 Sept. 1912, Aundh, Satara District, Maharashtra; s. of Bhawanrao Pant (Raja of Aundh) and Ramabai Pratinidhi; m. Nalini Natesh Dravi 1942; one s. two d.; ed. Univs. of Bombay and Oxford, and Lincoln's Inn, London; fmr. Minister of Educ., Aundh State, Prime Minister 1938-44, Minister 1944-48; mem. All-India Congress Cttee. 1948; Commr. for Govt. of India, British East Africa 1948-54, concurrently Consul-Gen. in Belgian Congo and Ruanda Urundi 1948-54, concurrently Commr. in Central Africa and Nyasaland 1950-54; Officer on Special Duty, Ministry of External Affairs, New Delhi 1954-55; Political Officer, Sikkim and Bhutan, with control over Indian missions in Tibet 1955-61; Amb. to Indonesia 1961-64, to Norway 1964-66, to U.A.R. 1966-69; High Commr. in U.K. 1969-72; Amb. to Italy and High Commr. to Malta 1972-76; Del. to UN Gen. Assembly 1951, 1952, 1965; Padma Shri 1954. *Publications:* Tensions and Tolerance 1965, Aggression and Violence: Ghandian Experiments to Fight Them 1968, Yoga 1968, Surya Namaskar 1969, A Moment in Time, Manoala—An Awakening 1978. *Leisure interests:* photography, yoga, tennis, skiing, riding, archaeology, music. *Address:* Pant Niwas, Bhandakar Institute Road, Poona 4, India. *Telephone:* 58615.

PANT, Krishna Chandra; M.SC.; Indian politician; b. 10 Aug. 1931, Bhowali, Nainital Dist.; s. of late Pandit Govind Ballabh Pant; m. Ila Pant 1957; two s.; ed. St. Joseph's Coll., Nainital, Univ. of Lucknow; Mem. Lok Sabha for Nainital 1962-77, re-elected 1978-; Minister of Finance 1967-69, of Steel and Heavy Eng. 1969-70, of Home Affairs and Head, Depts. of Science, Electronics and Atomic Energy 1970-73; Minister of Irrigation and Power 1973-74, of Energy 1974-77; First Vice-Pres. Human Rights Comm. 1966; Leader del. to Int. Conf. on Human Rights, Teheran 1968; del. to various other int. confs.; Hon. Fellow Inst. of Engineers; Hon. D.Sc. (Udaipur). *Leisure interests:* welfare work, reading, travelling, sports. *Address:* 22 Datshineshwar Building, 10 Hailey Road, New Delhi 110001, India.

PANT, Sumitranandan; Indian poet; b. 1900, Kausani; s. of G. Pant; Fellow of Sahitya Acad.; Jnan Pith Award 1969. *Publications:* Vina Granthi 1919, Jyotsna (drama) 1922, Pallav 1926, Gunjan 1931, Uygvani-Gramya 1938, Swarana Kiran 1946, Uttara 1948, Atima 1955, Vani 1957, Kala Aur Boodhachand (Academy Award Winner) 1959, Lokayatan (Epic, Soviet Neru Award Winner) etc. *Address:* 18/B.7, K. G. Marg, Allahabad, Uttar Pradesh, India. *Telephone:* Allahabad 3540.

PANTON, Verner; Danish architect and designer; b. 1926, Gamtofte; s. of Henry and Ellen Panton; m. Marianne Pherson 1964; one d.; ed. Odense Technical School, Copenhagen Royal Acad. of Fine Arts; study in various European countries 1953-55; independent designer and architect 1955-; has designed furniture, lamps, carpets, curtains, upholstery fabrics, wall decorations etc.; buildings include cardboard house 1957, inn at Fyn (Denmark) 1958, spherical house 1960, plastic house 1960; exhbns. include Dansk Köbestaevne Exhbn. 1958, Bayer exposition ships Visiona I & II, Cologne 1968, 1970, Musée des Arts Décoratifs, Louvre 1969; interiors include hotel at Trondheim (Norway) 1960, Spiegel Publ. House, Hamburg 1969, Varna Restaurant, Aarhus 1971, Junior Casino, Goslar, Germany 1973, Gruner and Jahr Publ. House, Hamburg 1974; mem. Medlem Akademisk Arkitektverband (Denmark), Danske Arkitekters Landsforbund, Industrial Designers (Denmark), Schweizerischer Werkbund; Fellow, Royal Soc. of Arts, London; awards include PH Prize, Copenhagen 1967; Rosenthal Studio Prize, Germany 1967; Int. Design Award, U.S.A. 1963, 1968; Eurodomus 2, Italy 1968, Medal of Österreichisches Bauzentrum 1968, Ehrenpreis, Fourth Vienna Int. Furnishing Salon 1969, 3 Bundespreise "Gute Form", Fed. Germany 1972, Möbelprisen 1978 (Denmark). *Address:* Rebgasse 108, 4102 Binningen, Switzerland. *Telephone:* 061-39-70-66.

PANUFNIK, Andrzej; British composer and conductor; b. 24 Sept. 1914, Warsaw, Poland; s. of Tomasz Panufnik and Matylda Thonnes Panufnik; m. Camilla Jessel 1963; one s. one d.; ed. Warsaw State Conservatoire and the State Acad. of Music (with Felix Weingartner), Vienna; Conductor Cracow Philharmonic Orchestra 1945-46; Dir. Warsaw Philharmonic Orchestra 1946-47; Vice-Pres. Polish Composers' Union 1948-54; Vice-Chair. Int. Music Council of UNESCO 1950-53; settled in England 1954; Musical Dir. City of Birmingham Symphony Orchestra 1957-59; visiting conductor leading European and South American orchestras 1947-; mainly composer since 1959; First Prize Chopin Competition 1949; Banner of Labour 1st Class 1949; State Prizewinner 1951 and 1952; Pre-Olympic Competition First Prize 1952; First Prize for Musical Composition, Prince Rainier III of Monaco 1963, Sibelius Centenary Medal 1965; Knight of Mark Twain (U.S.A.) 1966. *Compositions:* Piano Trio 1934, Five Polish Peasant Songs 1940, Tragic Overture 1942, Nocturne 1947, Lullaby 1947, Twelve Miniature Studies 1947, Sinfonia Rustica 1948, Hommage à Chopin 1949, Old Polish Suite 1950, Concerto in Modo Antico 1951, Heroic Overture 1952, Rhapsody 1956, Sinfonia Elegiaca 1957, Polonia—Suite 1959, Concerto

for Piano and Orchestra 1962, Landscape 1962, Sinfonia Sacra 1963, Two Lyric Pieces 1963, Song to the Virgin Mary 1964, Autumn Music 1965, Katyń Epitaph 1966, Jagiellonian Triptych 1966, Reflections for Piano 1968, The Universal Prayer 1968-69, Thames Pageant 1969, Concerto for Violin and Strings 1971, Triangles 1972, Winter Solstice 1972, Sinfonia Concertante 1973, Sinfonia di Sfere 1974-75, String Quartet 1976, Dreamscape 1976, Sinfonia Mistica 1977, Metasinfonia 1978; Ballet Music: Elegy (N.Y. 1967), Cain and Abel (Berlin 1968), Miss Julie (Stuttgart 1970). *Leisure interests:* travel, all arts. *Address:* Riverside House, Twickenham, Middlesex, TW1 3DJ, England. *Telephone:* 01-892 1470.

PANYARACHUN, Anand; Thai diplomatist; b. 9 Aug. 1932; s. of Phya and Khunying Prichanusat; m. M. R. Sodsee Panyarachun Chakrabandh 1956; two d.; ed. Bangkok Christian Coll., Dulwich Coll., London, and Univ. of Cambridge; joined Ministry of Foreign Affairs 1955; Sec. to Foreign Minister 1958; First Sec. Perm. Mission to UN 1964, Counsellor 1966, Acting Perm. Rep. 1967-72, concurrently Amb. to Canada; Amb. to U.S.A. concurrently Perm. Rep. to UN 1972-75, Amb. to Fed. Repub. of Germany 1978-; Perm. Under-Sec. of State for Foreign Affairs 1975-76; del. to several sessions of UN Gen. Assembly and SEATO Council; Chair. Group of 77 on Law of Sea 1973; Rep. to UN Econ. and Social Council 1974-75; Chair. Thai Del. to 7th Special Session of UN Gen. Assembly, Vice-Chair. Ad Hoc Cttee. 7th Special Session, Sept. 1975. *Leisure interests:* tennis, squash, reading. *Address:* Embassy of Thailand, Ubierstrasse 65, 5300 Bonn, Federal Republic of Germany.

PAO, Sir Yue-Kong, Kt., C.B.E., LL.D., J.P.; Hong Kong shipowner; b. 1918, Chekiang; s. of Pao Sui-Loong and late Pao Chung Sau-Gin; m. Huang Sue-Ing; four d.; ed. Shanghai; Banking 1939-49; Chair. World-Wide Shipping Agency Ltd., Head of World-Wide Shipping Group; Chair. World Finance Int. Ltd., IBJ Finance (H.K.) Ltd., East Asia Cttee. Lloyd's Register of Shipping, Hong Kong Tech. Cttee. of American Bureau of Shipping, Hong Kong Cttee. Bureau Veritas of France, Hong Kong Cttee. Nippon Kaiji Kyokai of Japan; Vice-Chair. Intertanko, Int. Gen. Cttee. Bureau Veritas of France, Dir. Hong Kong and Shangai Banking Corpn. 1971-, Mass Transit Railway Corpn., Hong Kong, Hang Seng Bank Ltd., Mercantile Bank Ltd., Inchcape Far East Ltd., The Hong Kong Electric Co. Ltd., South China Morning Post Ltd, Hong Kong and Kowloon Wharf and Godown Co. Ltd.; Adviser, The Industrial Bank of Japan; founder World-Wide Sea Training School; life mem. Court, Univ. of Hong Kong; Hon. Vice-Pres. Maritime Trust of U.K.; mem. Gen. Cttee. Lloyd's Register of Shipping, Board of Managers of American Bureau of Shipping, American Chamber of Commerce, Int. Advisory Cttee., Chase Manhattan Bank. *Leisure interests:* swimming, golf. *Address:* World-Wide Shipping Agency Ltd., Prince's Building, 21st Floor, Hong Kong (Office); 77 Deep Water Bay Road, Hong Kong (Home). *Telephone:* H-242111 (Office).

PAOLOZZI, Eduardo Luigi, C.B.E., A.R.A.; British sculptor; b. 7 March 1924, Leigh, Scotland; s. of Rudolfo and Carmella Paolozzi; m. Freda Elliot 1951; three d.; ed. Edinburgh Coll. of Art and Slade School of Fine Art, Oxford and London; first exhibitions, Mayor Gallery, London 1947, 1948, 1949; teacher of textile design, Cen. School of Art and Design 1949-55; Lecturer in sculpture, St. Martin's School of Art 1955-58; Visiting Prof. Hochschule für Bildende Künste, Hamburg 1960-62; Visiting Lecturer, Univ. of Calif., Berkeley 1968; Lecturer in Ceramics, Royal Coll. of Art 1968-; Prof. in Ceramics, Fachhochschule, Köln 1977-; one-man exhbns. have included Hanover Gallery, London 1958, 1967, Betty Parsons Gallery, N.Y. 1960, 1962, Robert Fraser Gallery, London 1964, 1966, Museum of Modern Art, N.Y. 1964, Pace Gallery, N.Y. 1966, 1967, Stedelijk Museum, Amsterdam 1968, Tate Gallery, London 1971, Victoria and Albert Museum 1977, and other galleries in U.K., U.S.A., Canada, Netherlands, Germany; has participated in numerous group exhbns. including Venice Biennale 1952, 1960, São Paulo Biennale 1957, 1963, New Images of Man, Museum of Modern Art, N.Y. 1959, 2nd 3rd and 4th Int. Biennial Exhbns. of Prints, Museum of Modern Art, Tokyo 1960, 1962, 1964, British Art Today (travelling exhbn., tour of U.S.A.) 1962, 7th Int. Art Exhbn., Tokyo 1963, Neue Realisten und Pop Art, Akademie der Künste, Berlin 1964, Premier Bienniale Exhbn., Cracow 1966, Sculpture from Twenty Nations, Guggenheim Museum, N.Y. 1967, Pop Art Redefined, Hayward Gallery, London 1969, Expo 70, Osaka 1970, Hayward Annual Arts Council Exhbn. 1977, Jubilee Exhbn. of British Sculpture; British Critics' Prize 1953, Copley Foundation Award 1956, Bright Foundation Award 1960, Blair Prize, 64th Annual American Exhbn., Chicago 1961, 1st Prize for Sculpture, Carnegie Int. Exhbn., Pittsburgh 1967. *Address:* 107 Dovehouse Street, London, S.W.3; Gull Cottages, Landermere, Thorpe-le-Soken, Essex, England.

PAPACONSTANTINOU, Theophylactos; Greek author and journalist; b. 1905, Monastir, Serbia; s. of Prof. Philotheos Papaconstantinou and Paraskevi Kyriakou; m. Irene Oeconomopoulou 1932; one d.; ed. Univ. of Athens; Ed. and Contributor Great Hellenic Encyclopaedia 1928-34; Editor and Leader-writer Mahomeni Hellas (Underground) 1942-43; Contributor to newspapers, Anexartitos 1933-36, Proïa 1936-43, Eleftheria 1945-63, Makedonia 1958-59, Messimvrini 1963-67; Press Dir. Hellenic Information Service, Cairo 1943-44; Radio Commentator N.B.I. Athens, 1950-53, 1959-64; Under-Sec. to Prime Minister's Office 1967; Minister of Educ. 1967-69; mem. Union of Athens Daily Newspaper Journalists, Fed. Int. Journalists, Hellenic Soc. for Humanistic Studies; Athens Acad. Prize for Anatomy of the Revolution; Commdr. Royal Order of Phoenix, Knight Commdr. of Royal Order of George I, Gold Medal of City of Athens. *Publications:* Castoria 1930, Falsifications of Marxism in Greece 1931, Introduction to Dialectics 1933, The Prussians of the Balkans 1944, Against the Current 1949, Anatomy of the Revolution 1952, Manual of the Free Citizen 1955, The New Line of Communism 1956, Ion Dragoumis and the Political Prose 1957, Anatomy of Fellow-travel 1960, Problems of Our Era 1960, Greek Philosophy 1964, The Battle of Greece 1966, 1971, Political Education 1970; and Greek trans. of Karl Marx, Sigmund Freud, Charles Gide and Sidney Hook. *Leisure interests:* gardening, swimming. *Address:* Agias Philotheis 23, Philothei, Athens, Greece. *Telephone:* 6818788.

PAPADIMITRIOU, Konstantinos; Greek engineer and politician; b. 1916, Athens; m.; one d.; ed. Nat. Polytechnic "Metsovian"; Engineer, Cartridge and Power Co. 1939-40; Chief, Tech. Bureau of Constructions, Ministry of Social Welfare 1941-55; Asst., Nat. Polytechnic "Metsovian" 1947-57; Doctor at Highest School of Civil Engineers of Nat. Polytechnic "Metsovian"; Prof. of Mechanics, Aviation School 1956; Prof. of Construction Polytechnic School, Univ. of Thessaloniki 1959-61, mem. of Faculty 1963-64; Minister of Public Works 1968-73; Medal for Outstanding Acts, Knight of Royal Order of Phoenix, Commdr. Royal Order of George I. *Publications:* Study for the Calculation of Frames according to Hardy Cross, Sound Insulation, Proceedings for Experimental Laying of Influence Lines in Superstatic Structures, Statical models on Perspex, Technology of Building Materials, Building Constructions. *Address:* c/o Ministry of Public Works, Athens, Greece.

PAPADONGONAS, Alexandros; Greek naval officer and politician; b. 1931, Tripolis; s. of Dionissios and Vassiliki Papadongonas; m.; one s. one d.; ed. Naval Cadet Schools, Naval War Coll., U.S. Naval Schools, NATO Defence Coll.; has served on Greek fleet vessels and submarines of all classes and has held staff positions; organized with other Navy officers movt. of Navy against the dictatorship 1968; arrested May 1973 and removed from service; returned to Navy July-Nov. 1974; mem. Parl. 1974-; Minister of Merchant Shipping 1974-77, of Communications Nov. 1977-; Medal of Mil. Valour, Commdr. Order of the Phoenix, Officer Order of George I; New Democracy Party. *Leisure interests:* scuba diving, underwater archaeology. *Address:* Ministry of Communications, 13 Xenofontos Street, Athens; 53-55 Evelpidon Street, Athens, Greece. *Telephone:* 8834380.

PAPADOPOULOS, Georgios; Greek army officer (retd.) and politician; b. 5 May 1919, Eleochorion, Achaia; m. Nekee Vassiliadis 1941; two c.; ed. War Acad., Artillery School, and Officers' Training School in Middle East; Second Lieut. 1940, Lieut. 1943, Capt. 1946, Major 1949, Lieut.-Col. 1956, Col. 1960, Brig. and retd. Dec. 1967; served on Albanian front in Greek-Italian war 1940; joined nat. resistance units during German occupation; Staff Officer 1944-45, Intelligence Officer 1945-46; Commdr. Artillery Battery 1946; Training Officer, Artillery School 1946-48; Commdr. 131st Mountain Artillery Unit 1948, 144th Mountain Artillery Unit 1948-49; then Artillery Instructor and Unit Commdr. 1949-54; Intelligence Bureau, Army Gen. Staff 1954; Chief of Staff, Artillery Div. 1955-57; Central Intelligence Service 1959-64; Commdr. 117th Field Artillery Unit 1964-65, First Army Force 1965-66; at Third Staff Bureau, Army Gen. Staff 1966-April 1967; led mil. coup to overthrow govt. April 1967, Minister to Prime Minister's Office April-Dec. 1967; Prime Minister, Minister of Defence and Minister to Prime Minister's Office 1967-73, also Minister of Education 1969-70, Minister of Foreign Affairs 1970-73, Regent 1972-73; Pres. of Repub. of Greece June-Nov. 1973, arrested Oct. 1974, sentenced to death for high treason and insurrection Aug. 1975 (sentence commuted to life imprisonment); Commdr. Royal Order of Phoenix; Medal of Mil. Merit, and numerous other medals. *Publication:* To Pistero Mas (Credo) 1968. *Leisure interests:* ancient Greek authors, book collecting, hunting, the countryside. *Address:* Kordallous Prison, near Piraeus, Greece.

PAPADOPOULOS, Konstantinos; Greek army officer and politician; b. 1921, Achaïa; ed. Army Cadet School and Higher School

of Welfare; commissioned 1943, Col. 1968; Sec.-Gen. Office of Prime Minister 1968; Under-Sec. of State and Regional Gov. of Attica and the Islands 1971; Minister at Prime Minister's Office responsible for Planning 1972-73; arrested Feb. 1975, sentenced to life imprisonment for high treason and 10 years' imprisonment for insurrection Aug. 1975; Medal for Exceptional Bravery and many Greek and foreign decorations.

PAPALIGOURAS, Panayotis; Greek politician; b. 1917, Kerkyra; m. Andromache Koryzis; one s. one d.; ed. Univs. of Athens and Geneva; Asst. Prof. Univ. of Geneva 1941; Reserve Officer, Greek Forces, World War II; Sec.-Gen., Ministry of Supply 1945; Under-Sec. for Supply 1945; Unity Party mem. Parl. 1946, Greek Rally mem. Parl. 1951, 1952, Nat. Radical Union mem. Parl. 1956, Populist Party mem. Parl. 1958, Nat. Radical Union mem. Parl. 1961, 1963, 1964, New Democracy Party mem. Parl. 1974; Under-Sec. of Commerce 1952-53; Minister of Commerce 1953-54, of Co-ordination 1954-55, of Commerce and Industry 1956-58, of Co-ordination 1961-63; Gov. Bank of Greece 1974; Minister of Co-ordination and Planning 1974-77, of Foreign Affairs 1977-78; Knight Commdr. Order of the Phoenix, Gold Cross Order of King George I, Grand Crosses of Fed. Repub. of Germany, Ethiopa, Yugoslavia, Italy, Commdr. Légion d'honneur. *Publications:* Théorie de la Société Internationale 1941. *Leisure interests:* mathematics, arts. *Address:* Karneadou 28, Athens, Greece.

PAPANDREOU, Andreas George, PH.D.; Greek educationist and politician; b. 5 Feb. 1919, Chios; s. of the late George Papandreou (fmr. Prime Minister of Greece) and Sophia (née Mineiko); m. 2nd Margaret Chant 1951; three s. one d.; ed. Athens Univ. Law School and Harvard Univ., U.S.A.; Assoc. Prof., Univ. of Minnesota 1947-50, Northwestern Univ. 1950-51; Prof. Univ. of Minnesota 1951-55; Prof., Chair. Econ. Dept., Univ. of Calif. 1955-63; Dir. Centre of Econ. Research, Athens, Greece 1961-64; Econ. Adviser, Bank of Greece 1961-62; Minister to Prime Minister, Greece Feb.-Nov. 1964; Minister of Econ. Co-ordination 1965; Deputy from Ahaia 1965-67; in prison April-Dec. 1967; Founder and Chair. Pan-Hellenic Liberation Movement 1968-74; Prof. Univ. of Stockholm 1968-69; Prof. of Econ. York Univ., Canada 1969-74; returned to Greece Aug. 1974; Founder and Leader of Panhellenic Socialist Movt. 1974-; Leader, Opposition Party in Greek Parl. 1977-. *Publications:* Economics as a Science 1958, A Strategy for Greek Economic Development 1962, Fundamentals of Model Construction in Macroeconomics 1962, The Greek Front 1970, Man's Freedom 1970, Democracy at Gunpoint 1971, Paternalistic Capitalism 1972, Project Selection for National Plans 1974, Socialist Transformation 1977. *Address:* Panhellenic Socialist Movement, Athens, Greece.

PAPASPYROU, Dimitrios; Greek lawyer and politician; b. 2 Nov. 1902; ed. Univ. of Athens; Lawyer; Deputy for EPEK-Liberal Party 1950-61, Centre Union Deputy 1961-65; Minister of Justice 1951-52, 1963-64, 1965; Minister of Agric. 1951-52; Minister of Prime Minister's Office 1964; mem. of F.D.K. (Liberal Democratic Centre) 1965-67; Speaker of Chamber of Deputies 1965-67; under house arrest until Sept. 1968; Minister of Agric. July-Oct. 1974. *Address:* 79 Léoforos Vassilissis Sophias, Athens, Greece.

PAPATHANASSIOU, Aspassia; Greek actress; b. Amphissa; m. Costas Mavromatis 1944; ed. Dramatic Art School of National Theatre of Greece; played a variety of leading roles with various Greek theatrical groups; founder-mem. Piraikon Theatre; has toured extensively in Europe and N. and S. America; appeared at Int. Festivals in Berlin, Paris, Florence and Vienna; has given over 450 performances of ancient tragedy; appeared on T.V. in England, U.S.S.R., U.S.A. and several other countries; Paris Théâtre des Nations 1st Prize; Gold Medal of City of Athens 1962; Silver Palladium Medal for best European actress 1963. *Address:* 105 Peter's Court, Porchester Road, London, W.2, England. *Telephone:* 01-229 8328.

PAPAYANNIS, Costas; Greek banker; b. 16 Oct. 1901, Athens; m.; one s. two d.; ed. Univ. of Neuchâtel, Switzerland; Chair., Athens Chamber of Commerce and Industry, 1939-51; Cen. Relief Comm. 1940-42; Adviser Greek Relief Dept., Int. Red Cross 1942-45; mem. Parl. for Athens, Populist Party 1946, Greek Rally Party 1952; Minister of Finance 1952-54; Head of Del. GATT Confs., Geneva 1953-54, NATO Conf. 1953; mem. Board and Man. Council, Nat. Bank of Greece 1968-73; Gov. Hellenic Industrial Bank 1973-74; Gov. Bank of Greece 1973-74; mem. Historical and Ethnological Soc., Parnassus Literary Soc.; Bundesverdienstkreuz (Fed. Rep. of Germany), Grand Cross of Ethiopia, Grand Officier, Légion d'honneur. *Address:* 19 Dimokriton Street, Athens 136, Greece. *Telephone:* 611-013.

PAPI, Giuseppe Ugo; Italian economist; b. 19 Feb. 1893, Capua; s. of Giustino Papi and Giuseppina De Rosa; m. Beatrice Bruni (deceased); no c.; Prof. of Econ., Messina Univ. 1927, Pavia Univ. 1931, Naples Univ. 1935, Rome Univ. 1938, Rector 1953-66; Gen. Sec. Int. Inst. of Agriculture 1939-48; Vice-Pres. and Pres. Food and Agriculture Cttee., OEEC; Pres. Int. Econ. Assn. 1962; Hon. LL.D. (Grenoble) 1955, (Salonika) 1957, (Bordeaux) 1958, (Frankfurt) 1958, (Paris) 1958, (Aix-Marseille) 1960, (Glasgow) 1961, (Lille) 1965; Légion d'honneur, Grosses Verdienstkreuz, Cavaliere di Gran Croce al Merito della Repubblica. *Publications:* Cost Variations and Business Cycles 1929, The Colonial Problem; an Economic Analysis 1938, Elements and Directive Principles of Economic Planning 1942, Uniformities in a Consumer's Plan 1942, Theory of the Economic Behaviour of the Government 1956, Principles of Economics (3 vols.) 1953-61, International Economics 1960, 1970, Some Problems of Italian Economy 1963, Dictionary of Economics 1967, International Economics 1969, The Choice of an International Monetary Measure 1970, Agricultural Adjustment 1972, Inflation 1974, Importance of the Method 1975, The Premises of Economic Growth 1976, The Secular Mistake for the South 1977, Ways to Communism 1978. *Leisure interests:* literature, theatre, various sports. *Address:* Via Plinio 7, Rome, Italy. *Telephone:* 35-10-80.

PAPON, Maurice Arthur Jean, L. EN D.; French politician; b. 3 Sept. 1910, Gretz-Armainvilliers (Seine-et-Marne); ed. Lycée Louis-le-Grand, and Facultés de Droit et de Lettres, Paris; Ed., Ministry of Interior 1935-36; Attachée, Cabinet of the Under-Sec. of State 1936, Foreign Affairs 1937-39; Sec.-Gen. Gironde 1942-44; Prefect of Lands 1944-45; Deputy Dir. for Algeria at Ministry of Interior 1946-47; Prefect of Corsica 1947-49, Constantine, Algeria 1949-51; Sec.-Gen., Prefecture of Police 1951-54, Protectorate of Morocco 1954-55; Tech. Adviser, Cabinet of Sec. of State for Interior 1956; Insp.-Gen. for Admin., East Algeria 1956-58; Prefect of Police, Paris 1958-66; Pres., Dir.-Gen. Sud-Aviation 1967-68; Dir. Société d'études de la propulsion par réaction (SEPR) 1967-68; mem. Nat. Assembly for Cher 1968-78, Pres. Assembly Finance Comm. 1972-73, Rapporteur 1973-78; Minister of the Budget April 1978-; Mayor of Saint-Amand-Montrond 1971-; Hon. Prefect of Police 1972; Commdr., Légion d'honneur, Commdr., Ordre du Mérite Civil and mil. awards; mem. Rassemblement pour la République. *Publications:* L'Ere des responsables 1954, Vers un nouveau discours de la méthode 1965, Le Gaullisme ou la loi de l'effort 1973. *Address:* "La Noualla", Gretz-Armainvilliers, 77220 Tournan-en-Brie, France.

PAPP, Joseph; American theatre producer; b. 22 June 1921, Brooklyn, N.Y.; s. of Samuel and Yetta (Miritch) Papirovsky; m. 3rd Gail Bovard Merrifield 1976; two s. two d.; ed. Eastern District High School, Brooklyn, N.Y., Actors' Laboratory, Hollywood, Calif. Founder and Producer, New York Shakespeare Festival 1953-; produced at Beaumont and Newhouse Theaters at Lincoln Center 1972-76; Distinguished Seminar Prof., Long Island Univ. 1965-66; Adjunct Prof. of Directing, Yale Univ. School of Drama 1966-67; Adjunct Prof. of Directing, Columbia Univ., New York, N.Y. 1967-69; three Pulitzer Prizes, five Tony Awards, seven New York Drama Critics' Circle Awards, four Drama Desk/Vernon Rice Awards, numerous Obie Awards, nine other awards; Hon. Dr. (Columbia Coll.) 1971, (Northwestern Univ.) 1972, (City Univ. of New York Graduate Centre) 1974, (Villanova Univ.) 1976, (Kalamazoo Coll.) 1977, (New York Univ.) 1978. *Publications:* The Festival Shakespeare: Naked Hamlet 1969, The Festival Shakespeare: Troilus and Cressida 1967, numerous articles. *Leisure interests:* music, carpentry, mowing. *Address:* New York Shakespeare Festival, 425 Lafayette Street, New York, N.Y. 10003, U.S.A. *Telephone:* 677-1750.

PAPPALARDO, H. E. Cardinal Salvatore, D.S.T.; Italian ecclesiastic; b. 23 Sept. 1918, Villafranca; s. of the late Alfio Pappalardo and Gaetana Coco; ed. Pontifical Univ. Lateranensis; Counsellor, Vatican Secr. of State 1947-65; Apostolic Pronuncio, Indonesia 1965-69; Pres. Pontifical Ecclesiastical Acad., Rome 1969-70; Archbishop of Palermo 1970-; created Cardinal by Pope Paul VI 1973. *Address:* Via Matteo Bonello 2, Palermo, Italy. *Telephone:* 21-34-42.

PAPPENHEIMER, John Richard, PH.D.; American professor of physiology; b. 25 Oct. 1915, New York, N.Y.; s. of Alwin M. and Beatrice L. Pappenheimer; m. Helena F. Palmer 1949; three s. one d.; ed. Harvard Coll. and Cambridge Univ., England; Demonstrator in Pharmacology, University Coll., London 1939-42; Instructor in Physiology, Coll. of Physicians and Surgeons, New York 1940-42; Fellow in Biophysics, Johnson Foundation, Univ. of Pennsylvania 1942-45; Asst. Prof. Harvard Univ. Medical School 1946-53, George Higginson Prof. of Physiology 1969-; Career Investigator, American Heart Assn. 1953-; Editor Physiological Reviews and other scientific journals; Pres. American Physiological Soc. 1964-65; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences;

Overseas Fellow Churchill Coll., Cambridge 1971-72; George Eastman Visiting Prof., Oxford 1975-76. *Publications:* Technical articles and reviews in physiological journals. *Leisure interest:* violoncello. *Address:* Department of Physiology, Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115, U.S.A.

PARADYANOV, Sergey Iosifovich; Soviet film director; b. 18 March 1924, Tbilisi; ed. U.S.S.R. State Inst. of Cinematography; Dir. at Kiev Dovzhenko Studios 1952; arrested 1974, sentenced to five years in labour camp, released 1978; Mar del Plata Film Festival Award, Argentina, for Shades of Forgotten Ancestors 1965. *Films include:* First Lad 1956, Ukrainian Rhapsody 1958, Flower on the Stone 1959, Shades of Forgotten Ancestors 1964, The Colour of Pomegranates 1969.

PARAENSE, Wladimir Lobato, M.D.; Brazilian scientist; b. 16 Nov. 1914, Pará; s. of Raymundo Horminho Paraense and Maria da Costa Paraense; m. Lygia dos Reis Corrêa 1972; one d.; ed. Colégio Estadual Pais de Carvalho, Pará, and Univ. do Recife; Scientific Investigator, Ministry of Health, Brazil 1940-; Prof. of Protozoology, Instituto Oswaldo Cruz 1951, Instituto Nacional de Endemias Rurais 1960; Research Assoc., Serviço Especial de Saúde Pública 1954-56; mem. Pan American Health Org./WHO Working Group for Devt. of Guidance for Identification of American Planorbidae 1961-; Dir. Inst. Nacional de Endemias Rurais 1961-63; Active mem. Inst. of Malacology, Mich., U.S.A. 1963-; mem. WHO Board of Experts in Parasitic Diseases 1964-; Chief, Schistosomiasis Snail Identification Center for the Americas, Pan American Health Org. and Ministry of Health of Brazil 1964-; Councillor, Nat. Research Council 1968-; Dir. Inst. of Biology, Univ. de Brasília 1968-72; mem. Sociedade de Biologia do Rio do Janeiro, Soc. Brasileira para o Progresso da Ciência (Councillor 1959-), American Assen. for Advancement of Science, Royal Soc. of Tropical Medicine and Hygiene (U.K.), Academia Brasileira de Ciências and other Brazilian socs., Soc. of Protozoologists, U.S.A., Int. Acad. of Zoology, India, Conchological Soc. of G.B. and Ireland, New York Acad. of Sciences, American Microscopical Soc., several medals. *Publications:* over 100 papers on zoological, parasitological and pathological aspects of tropical medicine, chiefly malaria, piroplamosis, leishmaniasis and bilharziasis (especially molluscan intermediate hosts). *Leisure interests:* music, literature, history. *Address:* Academia Brasiliera de Ciências, Caixa Postal 229, ZC-00, Rio de Janeiro, Brazil.

PARASKEVOPOULOS, Ioannis; Greek economist, politician and banker; b. 1900; ed. in Greece and at Albert-Ludwigs-Universität, Freiburg, Ludwig-Maximilians-Univ., Munich, and Univ. Leipzig; started with Deutsche Bank, Germany, then joined Midland Bank, England; with Nat. Bank of Greece 1930-, helped organize its Industrial Credit Dept., Man., then Econ. Adviser, later Deputy Gov. 1954-66, Gov. 1966-67; Prof. at Panteios School of Political and Econ. Science; fmr. Minister of Supply, Nat. Economy, Commerce, Industry, Labour, Interior, Foreign Affairs; interim Prime Minister and Minister of Econ. Co-ordination 1963-64; interim Prime Minister Dec. 1966-March 1967. *Address:* c/o National Bank of Greece, 86 Eolou Street, Athens 121, Greece.

PARAYRE, Jean-Paul-Christophe; French motor industry executive; b. 5 July 1937, Lorient; s. of Louis and Jeanne (Malarde) Parayre; m. Marie-Françoise Chaufour 1962; two s. two d.; ed. Lycées in Casablanca (Morocco) and Versailles, Ecole Polytechnique, Paris, Ecole Nat. des Ponts et Chaussées; Engineer, Dept. of Highways 1963-67; Tech. Adviser, Ministry of Social Affairs 1967, Ministry of Econ. and Finance 1968; Dir. of Mech. Industries at Ministry of Industry and Research 1970-74; Chief Adviser to Pres. and Gen. Man. Banque Vernes et Commerciale 1974; Man. of Planning, Automobile Div. of Peugeot 1975; Man. Automobile Div. of Peugeot-Citroen 1976; mem. Board of Dirs., Soc. Dumez 1977-; mem. Exec. Cttee. PSA Peugeot-Citroën March 1977, Chair. June 1977-; Chevalier, Ordre national du Mérite. *Leisure interest:* tennis. *Address:* 26 rue Saint-James, 92200 Neuilly-sur-Seine, France. *Telephone:* 624-29-42.

PARBO, Sir Arvi Hillar, Kt., B.ENG.; British mining engineer; b. 10 Feb. 1926, Tallinn, Estonia (now part of U.S.S.R.); s. of Aado Parbo and Hilda Rass; m. Saima Soots 1953; two s. one d., ed. Estonia, Germany and Univ. of Adelaide; joined Western Mining Corpn. Ltd. 1956, Mining Eng. 1956, Underground Man. Nevoria Mine 1958, Technical Asst. to Man. Dir. Western Mining Corpn. 1960, Deputy Gen. Supt. W. Australia 1964, Gen. Man. Western Mining Corpn. Ltd. 1968, Deputy Man. Dir. 1970, Man. Dir. 1971-, Vice-Chair. 1973, Chair. 1974-. *Leisure interests:* reading, carpentry. *Address:* Western Mining Corporation Ltd., 360 Collins Street, P.O. Box 860K, Melbourne, Vic. 3001 (Office); Longwood, 737 Highbury Road, Vermont South, Vic. 3133, Australia (Home). *Telephone:* 67-7556 (Office); 232-8264 (Home).

PARDEE, Arthur Beck, PH.D.; American biochemist; b. 13 July 1921, Chicago, Ill.; s. of Charles A. and Elizabeth Beck; m. Ruth Sager; three s. one d.; ed. Univ. of California (Berkeley) and California Inst. of Technology; Postdoctoral Fellow, Univ. of Wisconsin 1947-49; Instructor, Asst. and Assoc. Prof. Univ. of Calif. (Berkeley) 1949-61; Senior Postdoctoral Fellow, Pasteur Inst. 1957-58; Prof. and Chair. Biochemical Sciences, Princeton Univ. 1961-67, Prof. of Biology 1967-75; Prof. of Pharmacology, Harvard Medical School 1975-; Chief, Cell Growth and Regulation, Sidney Farber Cancer Inst. 1975-, Dir. for Tumor Biology 1977-; mem. Editorial Board Biochimica Biophysica Acta 1962-69, Proceedings of the Nat. Acad. of Sciences 1971-74; mem. Advisory Council, American Cancer Soc., Cttee. on Science and Public Policy, Nat. Acad. Sciences; Trustee Cold Spring Harbour Lab. 1963-69; mem. Nat. Acad. of Sciences 1968-, American Acad. of Arts and Sciences 1963-, Councillor 1977-(81); Paul Lewis Award, American Chemical Soc. 1960, Krebs Medal, European Biochemical Soc. 1973, Rosenstiel Award, Brandeis Univ. 1975. *Publications:* Articles on ■ binding site for sulfate and its relation to sulfate transport into salmonella typhimurium, enzyme synthesis in synchronous cultures of bacteria, cell division cycle events and a hypothesis of cancer; Experiments in Biochemical Research Techniques 1957. *Leisure interests:* music, tennis, travel, art. *Address:* Sidney Farber Cancer Center, 44 Binney Street, Boston, Mass. 02115 (Office); 30 Codman Road, Brookline Mass. 02146, U.S.A. (Home). *Telephone:* (617) 732-3372 (Office).

PÁRDI, Imre; Hungarian politician; b. 16 April 1922, Tatabánya; s. of Mátyás Párdi and Mária Miatton; m. Maria Kisfaludi 1945; one s. two d.; fmr. machine fitter; worked as Party official 1945-, fmr. Sec. Tatabánya Town, Komárom County and Veszprém County Cttees., Hungarian Socialist Workers' Party; mem. Central Cttee. Hungarian Socialist Workers' Party 1962-; Chair. Nat. Planning Office 1967-73; Head Econ. Policy Dept., Cen. Cttee. of Hungarian Socialist Workers' Party 1973-75, mem. 1975-78; Labour Order of Merit, Golden Degree 1970. *Leisure interests:* reading, music. *Address:* c/o Hungarian Socialist Workers' Party, H-1387 Budapest, Széchenyi rakpart 19, Hungary.

PARDO, Arvid; Maltese diplomatist; b. 12 Feb. 1914, Rome; s. of Guido Pardo and Dagmar Julin; m. Margit Claeson 1947; two s. one d.; ed. Università degli Studi, Rome, and Université de Tours; Officer-in-Charge, UN Archives 1945-46; Dept. of Trusteeship and Information for Non-Self-Governing Territories, United Nations 1946-60; Secr., Technical Assistance Board, UN, later Deputy Resident Rep. in Nigeria and Ecuador 1960-64; Perm. Rep. of Malta to the United Nations 1965-71, concurrently Amb. to U.S.A. and U.S.S.R., and High Commr. to Canada; Co-ordinator Marine Programme, Woodrow Wilson Int. Centre for Scholars, concurrently Maltese Rep. to UN for Ocean Affairs, Prof. of Political Science and Senior Fellow, Inst. Coastal Marine Studies, Univ. of S. Calif. 1975-. *Publications:* The Common Heritage 1975, The New International Economic Order and the Law of the Sea (2nd edn. with Mrs. E. Borgese) 1977. *Leisure interests:* chess, reading. *Address:* University of Southern California, VKC 327, University Park, Los Angeles, Calif. (Office); 900 Euclid Street, Santa Monica, Calif. 90403, U.S.A. (Home).

PARDO, Luis María de Pablo; Argentine professor of law and politician; b. 15 Aug. 1914, Buenos Aires; s. of Augusto de Pablo Pardo and Luisa Gosset; m. Aida Quinteros Sánchez de Bustamente; one s. two d.; ed. Law Faculty, Univ. de Buenos Aires, postgraduate Univ. of Georgetown (Washington, D.C.); Dir. of courses, Law and Social Sciences Faculty, Univ. de Buenos Aires, Prof. adjunct of Int. Public Law, Faculty of Econ. Sciences 1947-51; Prof. titular of Int. Public Law, Univ. Católica, Argentina then Prof. titular of Int. Relations 1961-; also Prof. of Int. Public Law and Int. Policy, Naval War School, and Lecturer at Aeronautical Staff's Officers School 1966-; imprisoned 1951, 1952, and 1953 for anti-Peronist activities, exiled to Brazil until 1955; Minister of the Interior designate 1955; Legal Adviser to Ministry for Foreign Relations and Worship 1958-61; Rep. UN 2nd Sea Law Conf. 1960; Tech. Adviser at 5th, 6th and 7th "Reunión de Consulta" of American Foreign Ministers; Amb. to Chile 1961; Legal Adviser of Chancellery at the "Rio Encuentro" Affair; Legal Adviser of the "Tech. Argentine-Uruguayan Mixed Comm. for the Salto Grande"; Minister for Foreign Relations and Worship 1970-72; Judge adjunct of Supreme Court; Grand Cross of Orders Cruzeior del Sur, Río Branco (Brazil), Bernardo O'Higgins (Chile), Del Sol (Peru), Al Mérito (Ecuador), and many other decorations, incl. from German and Japanese Govts. *Publications:* manual of International Public Law for use of Navy Officers, The Geographic Position of Argentina as a Factor of its Foreign Policy 1947, The Tendency towards Federation within Interamerican Relations 1947, Dominant Economics within the

International Order, Foreign Policy 1952, The Contemporary International System and Argentine International Policy 1973. *Address:* Paraná 976, Buenos Aires (Office); Avenida Quintane 325, 1014 Buenos Aires, Argentina (Home). *Telephone:* 44-43-50/42-29-80 (Office); 44-27-34 (Home).

PARECATTIL, H. E. Cardinal Joseph; Indian ecclesiastic; b. 1 April 1912, Kidangoor; s. of Ittyrah and Eliswa Parecattil; ed. Papal Seminary, Candy, Sri Lanka; ordained priest 1939; Editor Sathyadeepam; titular bishop Arathusa, installed archbishop 1957; mem. Pontifical Comm.; Vice-Pres. Catholic Bishops' Conf. of India 1966, Pres. 1972, 1974; mem. Sacred Congregation for the Oriental Churches; Cardinal 1969; mem. Secr., Christian Unity, Rome 1970, Secr. for Non-Christians 1974-; Pres. Pontifical Comm. for revision of Oriental Canon Law 1972; Pres. Syro-Malabar Bishops' Conf., Kerala Catholic Bishops' Conf. 1971-77; Chancellor, Pontifical Inst. of Philosophy and Theology, Alwaye 1973-77; Chancellor, Dharmaram Inst. of Theology and Philosophy, Bangalore. *Address:* Archbishop's House, Post Bag 1209, Cochin 682011, Kerala, India. *Telephone:* Cochin 32629.

PAREKH, Hasmukh, B.A., B.SC.; Indian investment broker; b. 10 March 1911, Surat; ed. Bombay Univ., London School of Economics; worked as stockbroker with leading Bombay firm 1936-56; Deputy Gen. Man. Industrial Credit and Investment Corpn. of India 1958-68, Deputy Chair., Man. Dir. 1968-71, Chair., Man. Dir. 1972-73, Exec. Chair. 1973-. *Publications:* The Bombay Money Market 1953, The Future of Joint Stock Enterprise in India 1958, India and Regional Development 1969, Management of Industry in India. *Leisure interests:* reading, light music. *Address:* Industrial Credit and Investment Corporation of India Ltd., 163 Backbay Reclamation, Bombay 400 020 (Office); Kastur Nivas No. 1, French Road, Chowpatty, Bombay 400 007, India (Home). *Telephone:* 257351 (Office); 357949 (Home).

PARENTE, H. E. Cardinal Pietro; Italian ecclesiastic; b. 16 Feb. 1891, Casalnuovo Monterotaro; ordained Priest 1916; Archbishop of Perugia 1955-59; Titular Archbishop of Ptolemais in Thebaide 1959-; Assessor, Sacred Congregations for Doctrine and Faith; created Cardinal by Pope Paul VI 1967. *Address:* Piazza S. Calisto 16, 00153 Rome, Italy.

PARK, Merle Florence, C.B.E.; British ballerina; b. 8 Oct. 1937, Salisbury, Rhodesia; m. 1st James Monahan, C.B.E. 1965, one s.; m. 2nd Sidney Bloch 1971; one s.; ed. Elmhurst Ballet School and Royal Ballet School; joined Royal Ballet 1954; first solo role 1955; opened own ballet school 1977; repertoire includes Façade, Coppelia, Sleeping Beauty, La Fille Mal Gardée, Giselle, Les Sylphides, The Dream, Romeo and Juliet, Triad, The Nutcracker, La Bayadère, Cinderella, Shadow Play, Anastasia, Pineapple Poll, Swan Lake, The Firebird, Walk to the Paradise Garden, Dances at a Gathering, Shadow, Don Quixote, Deux Pigeons, Serenade, Scène de Ballet, Wedding Bouquet, Les Rendezvous, Mirror Walkers, Symphonic Variations, Daphnis and Chloë, Serenade, In the Night, Laurentia, Mamzelle Angot, Manon, Apollo, Flower Festival, Le Corsaire, The Moor's Pavane, Aureole, Elite Syncopations, Lulu, The Taming of the Shrew, Mayerling, Birthday Offering, etc.; Adelaine Genée Medal and many other certificates and medals. *Leisure interests:* travel, lying in the sun, listening to music. *Address:* 21 Millers Court, Chiswick Mall, Chiswick, London, W4 2PF, England. *Telephone:* 01-748 9456.

PARK CHUNG HEE, General; Korean army officer (retd.) and politician; b. 14 Nov. 1917, Sonsan-gun, North Kyongsang Province; s. of late Park Sung Bin and Paik Nam Ee; m. Yook Young Soo 1950 (died 1974); one s. two.; ed. Taegu Normal School, Japanese Mil. Acad., Artillery School (U.S.A.) and Mil. Command and Gen. Staff Coll., Korea; Teacher 1937-40; Japanese Army 1940-45; Korean Army 1945-63; became Deputy Commdr. Second Army, Repub. of Korea; led mil. coup to depose civilian govt. May 1961; Deputy Chair. Supreme Council for Nat. Reconstruction May-July 1961, Chair. 1961-63; Acting Pres. of Repub. of Korea March 1962-Nov. 1963, Pres. Dec. 1963- (re-elected 1967, 1971, 1972); retd. from army 1963. *Publications:* Leadership: In the Midst of the Revolutionary Process 1961, People's Path to the Fulfilment of Revolutionary Tasks; Direction for National Movement 1961, Our Nation's Path 1962, The State, the Revolution and I 1963, To Build a Nation 1971. *Address:* Ch'ong Wa Dae (Presidential Mansion), Seoul, Republic of Korea.

PARK KYUNG WON, M.A.; Korean civil servant; b. 3 Jan. 1923, Julanam-Do; m. Ko Kum Ok 1946; two s.; ed. U.S. Army Artillery School, Republic of Korea Command and Gen. Staff Coll., Nat. Defence Coll. and Dankuk Univ.; Minister of Home Affairs 1962-63, 1968-71, 1974-76, of Communications 1976-77; Dir. of Joint Staff, Rep. of Korea 1963-65, Commdg. Gen. 2nd Army 1965-66; Minister of Communication 1966-67, of Transport 1967-68; Sec.-Gen. People's Council for Nat. Unification 1972-74; various mil. and civil awards. *Leisure interests:* reading, wireless operation. *Address:* 102 Gea-Dong, Jongro-Gu, Seoul, Republic of Korea. *Telephone:* 73-0010, 72-2400.

PARKER, Eugene N., PH.D.; American physicist; b. 10 June 1927, Houghton, Mich.; s. of Glenn H. Parker and Helen M. Parker; m. Niesje Meuter 1954; one s. one d.; ed. Mich. State Univ. and Calif. Inst. of Technology; Instructor, Dept. of Mathematics and Astronomy, Univ. of Utah 1951-53, Asst. Prof., Dept. of Physics 1953-55; at Univ. of Chicago 1955-, Prof. Dept. of Physics 1962-, Prof. Dept. of Astronomy 1967-; mem. Nat. Acad. of Sciences 1967-; D.Sc. (Michigan State) 1975; Space Science Award, American Inst. of Aeronautics and Astronautics 1964, John Adam Fleming Award, American Geophysical Union 1968, Henryk Arctowski Medal, Nat. Acad. of Sciences 1969, Henry Norris Russell Lecture, American Astronomical Soc. 1969, George Ellery Hale Award, Solar Physics Div. American Astronomical Soc. 1978. *Publications:* Interplanetary Dynamical Processes 1963, Cosmical Magnetic Fields 1979. *Leisure interests:* hiking, history, wood-carving. *Address:* Laboratory for Astrophysics and Space Research, University of Chicago, 933 East 56th Street, Chicago, Ill. 60637 (Office); 1323 Evergreen Road, Homewood, Ill. 60430, U.S.A. (Home). *Telephone:* (312) 753-8571 (Office) (312) 798-3497 (Home).

PARKER, Jack Steele; American business executive; b. 6 July 1918, Palo Alto, Calif.; m. Elaine Simons; one d.; ed. Stanford Univ.; fmrly. associated with Western Pipe and Steel Co. of Calif. and Todd Shipyards; Asst. Chief Engineer American Potash and Chemical Co. 1946-50; joined Gen. Electric Co. 1950; Gen. Man. Aircraft Gas Turbine Div. 1955; Vice-Pres. 1956, in charge of Relations Services 1957; Vice-Pres. and Group Exec., Aerospace and Defense Group 1961; Exec. Vice-Pres. and mem. President's Office Jan. 1968; Dir., Vice-Chair. of Board and Exec. Officer, Gen. Electric Co. Dec. 1968-; Assoc. Fellow, Royal Aeronautical Soc.; Senior mem. American Inst. of Aeronautics and Astronautics; mem. American Soc. of Mechanical Engineers; mem. Board of Govs. and Exec. Cttee., Aerospace Industries Assen.; Life Trustee, Rensselaer Polytechnic Inst.; mem. Advisory Council, Stanford Univ. Grad. School of Business; mem. Citizens Cttee. for Govt. Reorg.; mem. Board of Directors, Council for Financial Aid to Educ.; Fellow, Inst. of Judicial Admin. *Address:* General Electric Co., 570 Lexington Avenue, New York, N.Y. 10022, U.S.A.

PARKER, Sir Karl Theodore, Kt., C.B.E., M.A., PH.D., F.B.A.; British art historian; studied Continental art centres and British Museum; Editor Old Master Drawings since inception 1926; fmr. Asst. Keeper Dept. of Prints and Drawings, British Museum; Keeper Dept. of Fine Art, Ashmolean Museum, Oxford 1934-35; Keeper of the Ashmolean Museum 1945-62; Trustee, Nat. Gallery 1962-69. *Publications:* North Italian Drawings of the Quattrocento, Drawings of the Early German Schools, Alsatian Drawings of the XV and XVI Centuries, Drawings of Antoine Watteau, Catalogue of Drawings in the Ashmolean Museums (Vol. I 1938, Vol. II 1956), Holbein's Drawings at Windsor Castle 1945, The Drawings of Antonio Canaletto in Windsor Castle 1948, Antoine Watteau: Catalogue Complet de son Oeuvre dessiné Vol. I (with J. Mathey) 1957, Vol. II 1958. *Address:* 4 Saffrons Court, Compton Place Road, Eastbourne, Sussex, England.

PARKER, Sir Peter, Kt., M.V.O., M.A.; British business executive; b. 30 Aug. 1924, Malo-les-Bains, France; s. of Tom and Dorothy Mackinlay Parker; m. Gillian Rowe-Dutton 1951; three s. one d.; ed. in France and China, Bedford School, London Univ. School of Oriental and African Studies, Lincoln Coll., Oxford, Cornell and Harvard Univs.; worked for Philips Electrical 1951-53; Head, Overseas Dept., Industrial Soc. 1953-54; Sec., Duke of Edinburgh Study Conf. 1954-56; Chair. Eng. Group, Booker McConnell 1957-70; mem. Org. Cttee., later of Main Board, British Steel Corpn. 1966-67; mem. Mech. Eng. EDC 1966-70; Chair. British Pump Mfrs. Assen. 1966-69; mem., later Deputy Chair. Court of London Univ. 1964-; Chair. Dillons Univ. Bookshop 1967-75, London Univ. Computing Services 1969-76; mem. British Tourist Authority 1969-75; Vice-Chair. Rockware Group Ltd. Oct. 1970-March 1971, Chair. 1971-76, subsequently non-exec. Dir.; Chair. Westfield Coll., London Univ. 1970-76, Econ. Devt. Cttee. for the Clothing Industry 1971-78, Landel Insurance Holdings Ltd. 1971-75, Victoria Deepwater Terminal Ltd. 1971-76, H. Clarkson (Holdings) Ltd. -1976, subsequently non-exec. Dir.; mem. Board British Airways 1971-; Dir. Int. Research and Devt. Co. Ltd. 1970-75, Renold Ltd. 1971-76, Shipping Industrial Holdings Ltd. 1971 (Chair. 1972-75), Full-employ Ltd. 1973-76; Deputy Chair. Dawnay Day Group Ltd. 1971-74, Chair. Nov. 1974-76; mem. British Railways Board April 1976-, Chair. Sept. 1976-; Pres. British Assen. of Industrial Editors

1971-74, British Mechanical Eng. Confed. 1972-74, British Graduates Assn. Advisory Council 1972; Gov. Bedford Coll. London 1970; mem. Inst. for Social Work Training 1970-76, York and Humberside Devt. Assn. Ltd. -1976, Foundation for Man. Educ.; Fellow and mem. Council, British Inst. of Man. *Leisure interests:* browsing, swimming. *Address:* British Railways Board, 222 Marylebone Road, London, NW1 6JJ, England. *Telephone:* 01-262 3232.

PARKES, Sir Alan Sterling, Kt., C.B.E., M.A., SC.D., F.R.S.; British biologist; b. 10 Sept. 1900, Rochdale, Lancs.; s. of E. T. Parkes; m. Ruth Deanesly 1933; one s. two d.; ed. Willaston School and Christ's Coll., Cambridge; mem. scientific staff of Medical Research Council 1932-61; Mary Marshall Prof. of the Physiology of Reproduction, Univ. of Cambridge 1961-67, Prof. Emer 1968-; Fellow, Christ's Coll., Cambridge 1961-69, Hon. Fellow 1970; Fellow, Univ. Coll., London; Chair. The Galton Foundation 1969-; Exec. Ed. Journal of Biosocial Science 1969-78, Consultant 1978-. *Publications:* Marshall's Physiology of Reproduction (Editor), 4 vols. 1952-66, Sex, Science and Society 1966, Patterns of Sexuality and Reproduction 1976; numerous papers and reviews in scientific journals. *Address:* 1 The Bramleys, Shepreth, Royston, Herts., SG8 6PY, England.

PARKES, Ed.; American business executive; b. 22 Nov. 1904, Bessemer, Ala.; s. of William Jay and Myra Huey Parkes; m. Julia Alice Washburn 1930; two d.; ed. Univ. of Arkansas; Design Engineer Ark. Power & Light Co. 1926-28; Engineer United Gas Pipe Line Co. 1928-29, Dist. Supt. 1929-30, Asst. Gen. Supt. 1930-37, Gen. Supt. Field Lines 1937-47, Vice-Pres. 1947-56, Dir. 1946-67, Pres. 1956-67; Exec. Vice-Pres. United Gas Corpn. 1955-58, Dir. 1955-68, Pres. 1958-67, Chair. of Exec. Cttee. 1967-68; Dir. American Gas Assn. 1955-65, mem. Exec. Cttee. 1959-65; Pres. 1964; Chair. Natural Gas Reserves Cttee 1957-69; Dir. American Petroleum Inst. 1956-68, mem. Exec. Cttee. 1963-68, Hon. Life mem. of Board; Dir., Chair. Exec. Cttee. Pennzoil United Inc. 1967-72; Advisory Dir. Pennzoil Co. 1972-76, Dir. Emer. 1976-; Trustee, Southwest Research Inst. 1961-70; United Fund Medallion 1966. *Leisure interest:* lapidary. *Address:* 1525 Fairfield Avenue, Shreveport, La. (Office); 5815 Creswell Road, Shreveport, La. 71106, U.S.A. (Home). *Telephone:* (318)868-1370.

PARKINSON, Charles Jay; American lawyer and business executive; b. 30 April 1909; s. of Fred L. and Lydia Rich Parkinson; m. 1st Edith Williams Parkinson 1937 (died 1977); one s. one d.; 2nd Adele Worsley 1978; ed. Utah and Oxford Univs.; Partner in law firms, Salt Lake City, Utah; Counsel, Basic Magnesium Inc., Henderson, Nevada 1941-45; Counsel, The Anaconda Co. and affiliated companies, and Int. Smelting and Refining Co., Salt Lake City, Utah 1944-55; Vice-Pres. Anaconda Aluminium Co., New York 1955-57; Gen. Counsel, The Anaconda Co., New York 1957-60, Exec. Vice-Pres. 1960-64, Pres. 1964-68, Chair. and Chief Exec. Officer 1969-71; Dir. The Anaconda Co., Chile Copper Co., Stauffer Chemical Co., TRI Ltd. *Leisure interests:* study and practice of law and teaching arbitration. *Address:* 2162 Arbor Lane, P.O. Box 17556, Salt Lake City, Utah 84117, U.S.A. *Telephone:* (801)277-0351.

PARKINSON, C(yril) Northcote, F.H.D.; British historian and author; b. 30 July 1909, Barnard Castle, Co. Durham; s. of William Edward Parkinson, A.R.C.A., and Rose Mary Emily Curnow Parkinson; m. 1st Ethelwyn Edith Graves 1943 (dissolved 1949), one s. one d.; m. 2nd Elizabeth Ann Fry 1952, two s. one d.; ed. St. Peter's School, York, Emmanuel Coll., Cambridge, and King's Coll., London; following a period of research in London, was elected Fellow of Emmanuel Coll., Cambridge; Senior History Master, Blundell's School, Tiverton, Devon 1937-39; Master, Royal Naval Coll., Dartmouth 1939-40; commissioned in Queen's Royal Regt. 1940 and served as O.C.T.U. instructor, instructor and staff officer attached to R.A.F. and on Gen. Staff; Lecturer, Liverpool Univ. 1946; Raffles Prof. of History, Univ. of Malaya 1950-58; Visiting Prof., Illinois Univ. 1959, Visiting Prof. Univ. of Calif. 1960; Emer. Prof. Troy State Univ. of Ala. 1970-; Fellow of the Royal Historical Soc.; Hon. D.Litt. (Troy State); Hon. LL.D. (Maryland); Julian Corbett Prize, London Univ. *Publications:* Edward Pellew, Viscount Exmouth 1934, Trade in the Eastern Seas 1793-1813 1937, Always ■ Fusilier 1949, War in the Eastern Seas 1793-1815 1954, Parkinson's Law: The Pursuit of Progress 1957, The Evolution of Political Thought 1958, The Law and the Profits 1960, British Intervention in Malaya 1867-77 1960, In-laws and Outlaws 1962, East and West 1964, Ponies Plot 1965, A Law unto Themselves 1966, Left Luggage 1967, Mrs. Parkinson's Law 1968, The Law of Delay 1970, The Life and Times of Horatio Hornblower 1970, Devil to Pay 1973, Industrial Disruption (editor) 1973, Big Business 1974, The Fireship 1975, Gunpowder, Treason and Plot 1976, The Rise of Big Business 1976, Communicate (with Nigel Rave) 1977, Touch and Go 1977, Britannia Rules 1977, Dead Reckoning 1977. *Leisure interests:* painting, architecture, travel. *Address:* Les Câches Hall, St. Martins, Guernsey, Channel Islands. *Telephone:* Guernsey 37449.

PARLIN, Charles C(oolidge), B.S., LL.B.; American lawyer; b. 22 July 1898; ed. Univ. of Pennsylvania and Harvard Univ.; admitted to New York Bar 1923; Senior Partner, Shearman and Sterling, New York City 1945-; Dir. numerous cos.; fmr. Lay Rep. Nat. Council of Churches, Pres. World Council of Churches 1961-68; Pres. World Methodist Council 1970-; Chair. Celanese Corpn. 1969-71. *Address:* 123 Hillside Avenue, Englewood, N.J. 07631, U.S.A.

PARMAR, Yeshwant Singh, B.A., M.A., LL.B., PH.D.; Indian lawyer, agriculturist and politician; b. 4 Aug. 1906, Village Chanhalag, Teh Pachchad; s. of Bhandari Shivanand Singh Parmar and Lakshmi Devi Parmar; m. 1st Chandravati Chauhan 1924, 2nd Satyavati Dang 1974; four s. two d.; ed. Shamsher High School, Nahan, Forman Christian Coll. (Punjab Univ.), Lahore, Canning Coll. (Lucknow Univ.), Lucknow; Sub-judge and Magistrate, Sirmur State 1930-37; Dist. and Sessions Judge, Sirmur State 1937-41; Pres. Himalayan Hill States Regional Council 1947; mem. Chief Commr.'s (Himachal Pradesh) Advisory Council 1948-50; mem. Constituent Assembly of India 1949, Provisional Parl. 1950-51; Pres. Himachal Pradesh Congress Cttee. 1948-50, 1960-64; Standing Council for Himachal Pradesh in Supreme Court of India 1960-63; Chair. Himalayan Forest Farming and Environmental Conservation Soc.; mem. Himachal Pradesh Legis. Assembly and Himachal Pradesh Chief Minister 1952-56, 1963-67, 1967-76. *Publications:* Social and Economic Background of Himalayan Polyandry, Himachal Pradesh—Its Proper Shape and Status, Himachal Pradesh—Case for Statehood and Strategy for Development of Hill Areas, Polyandry in the Himalayas 1975, Years of Challenge and Growth 1975. *Leisure interests:* forest farming, reading, golf, politics. *Address:* Village Bharyog, P.O. Bagthan, District Sirmur, Himachal Pradesh, India.

PARNAS, Joseph, DR. MED. VET.; Danish microbiologist; b. 14 June 1909, Przemysl, Poland; s. of Leon and Etylda Parnas; m. Sophie Parnas 1937; two s.; ed. Lvov Univ.; fmr. Asst. Prof. of Scientific Inst., Pulawy; served World War II; fmr. Prof. Acad. of Medicine, Lublin; Chief, Dept. of Microbiology; Founder, Chodźko Inst. of Rural Medicine; fmr. Rector, Marie Curie Univ., Lublin; Hon. Pres. Int. Assn. of Rural Medicine, France, Polish Soc. for Microbiology, Lublin; Fellow of Royal Soc. of Medicine, Royal Soc. of Tropical Medicine and Hygiene, London; Sec. Cttee. of Veterinary Medicine Polish Acad. of Sciences; mem. American Soc. for Microbiology, Soc. of Tropical Medicine in Antwerp, Danish Soc. for Pathology, Purkyně Medical Soc., Prague, Argentine Medical Soc., Brucellosis Cttee., Int. Assn. of Microbiological Socs.; adviser to the WHO; Visiting Prof. Copenhagen Univ.; Prof. in State Veterinary Serum Inst. Copenhagen 1971-; Lecturer, FAO Veterinary Faculty for Africans and Asians, Copenhagen; Chief Editor Historia Medicinae Veterinariae (international), Copenhagen; Dr.med. h.c. (Purkyně Univ.), Dr.med.vet. h.c. (Brno); Charles Darwin Medal, U.S.S.R. Acad. of Sciences. W. Bieganski Medal for popularization of science. *Publications:* 3 books, 5 monographs and over 300 other items, including Anthropozoonoses, Brucellosis, Rural Medicine and Hygiene, Leptospirosis, Tularemia, Contrib. to Theory of Anthropozoonoses, Colibacillosis of Newborns. *Leisure interests:* music, sport. *Address:* 27 Bülowsvej, DK-1870 Copenhagen, Denmark. *Telephone:* AS-36-32.

PARNICKI, Teodor; Polish writer; b. 5 March 1908, Berlin, Germany; ed. Lvov Univ.; work first published 1928; worked with Kurier Lwowski 1932-34; mem. Polish Writers' Assn.; lived in Mexico during the post-war period; Officer's Cross Order of Polonia Restituta 1968, State Prize, 1st Class 1972, Order of Banner of Labour (1st Class) 1978. *Publications:* novels: Trzy minuty po trzeciej 1929, Rozkaz Nr. 94 1930, Aecjusz, ostatni Ryzmianin 1937, Srebrne orły 1943, Koniec Zgody Narodów 1955, Słowo i ciało 1959, Twarz księżyca 1961-67, Nowa baśń 1962, Tylko Beatrycze 1962, I u możnych dziwny 1965, Koła na piasku 1966, Zabij Kleopatrę 1968, Inne życie Kleopatry 1969, Tożsamość 1970, Muza dalekich podróży 1970, Przeobrażenie 1973, Staliśmy jak dwa sny 1973, Rodowód literacki 1975, Hrabia Julian i Król Roderyk (written in 1934) 1976; Opowiadania (short stories) 1958. *Address:* Ul. Zimorowicza 2 m. 10, 01-062 Warsaw, Poland. *Telephone:* 25-48-35.

PARODI, Anton Gaetano; Italian journalist and playwright; b. 19 May 1923, Castanzaro Lido (Calabria); s. of Luigi Parodi and Grazia Scicchitano; m. Piera Somino 1952; two c.; ed. Università degli Studi, Turin and Genoa; journalist 1945-; professional journalist 1947-; Corresp. of Unità, Budapest 1964-; Premio nazionale di teatro Riccione 1959, 1965, Premio nazionale di teatro dei giovani 1947, and numerous other prizes. *Plays include:* Il gatto, Il nostro scandalo quotidiano, L'ex-maggiore Hermann Grotz, Adolfo o della

nagia, Filippo l'Impostore, Una corda per il figlio di Abele, Quel pomeriggio di domenica, Dialoghi intorno ad un'uovo, Una storia della notte, Pioggia d'estate, Cielo di pietra. I giorni dell'Arca, Quello che dicono. *Address:* Via Benvenuto Cellini 34/7, Genoa, Italy.

PARR, Albert Eide, D.SC.; American (b. Norwegian) oceanographer and environmentalist; b. 15 Aug. 1900, Bergen, Norway; s. of Dr. Thomas Parr and Helga Eide; m. Ella Hage Hanssen 1925; two s. two d.; ed. Royal Univ. Oslo and Bergen; Asst. in Zoology, Bergen Museum 1818-19; Asst. Norwegian Bureau of Fisheries 1924-26; Asst. N.Y. Aquarium 1926; Curator Bingham Oceanographic Collection, Yale Univ. 1927-42, Asst. Prof. of Zoology 1931-37, Assoc. Prof. 1937-38, Prof. of Oceanography 1938-42; Dir. Marine Research 1937-42, Dir. Peabody Museum 1938-42; Dir. American Museum of Natural History 1942-59, Senior Scientist 1959-68, Dir. Emer. 1968-; Trustee Woods Hole Oceanographic Inst. 1938-; Hon. Curator Peabody Museum 1975-. *Publications:* Mostly about Museums 1959, 189 articles on oceanography, biology, museums, urban environment. *Leisure interest:* the study of cities. *Address:* The American Museum of Natural History, Central Park West, New York, N.Y. 10024 (Office); 41 Ford Street, Hamden, Conn. 06517, U.S.A. (Home). *Telephone:* (203) 288-2408.

PARRA, Nicanor; Chilean poet; b. 5 Sept. 1914, San Fabián; s. of Nicanor P. Parra and Clara S. Navarrete; m. 1st Ana Troncoso 1948, 2nd Inga Palmen; seven c.; ed. Universidad de Chile, Brown Univ., U.S.A., and Oxford; Prof. of Theoretical Mechanics, Univ. de Chile 1964-; has given poetry readings in Los Angeles, Moscow, Leningrad, Havana, Lima, Ayacucho, Cuzco; Premio Municipal de Poesía, Santiago 1937, 1954; Premio Nacional de Literatura 1969. *Publications:* Poetry: Cancionero sin nombre 1937, Poemas y antipoemas 1954, La cueca larga 1958, Antipoems 1958, Versos de salón 1962, Discursos (with Pablo Neruda) 1962, Deux Poèmes (bi-lingual) 1964, Antología (also in Russian) 1965, Antología de la Poesía Soviética Rusa (bi-lingual) 1965, Canciones Rusas 1967, Defensa de Violeta Parra 1967; Scientific Works: La Evolución del Concepto de Masa 1958, Fundamentos de la Física (trans. of Foundation of Physics by Profs. Lindsay and Margenau) 1967, Obra Gruesa 1969. *Address:* Instituto Pedagógico, Avenida Macul 774, Santiago; Julia Bernstein, Parcela 272, Lareina, Santiago, Chile.

PARROT, André; French archaeologist; b. 15 Feb. 1901, Desandans; m. 1st Henriette Cazelles 1929, died 1955, 2nd Marie-Louise Girod 1960; two s. three d.; ed. Univ. de Paris à la Sorbonne, Ecole du Louvre and Ecole Archéologique Française de Jerusalem; Prof., Faculty of Protestant Theology, Univ. of Paris 1937-55, Ecole du Louvre 1937-; Dir. Louvre Museum 1968-72; Head Keeper of Nat. Museums 1946-65, Insp.-Gen. 1965-; Dir. of French archaeological expeditions to Mari (Syrian Repub.) and Larsa (Iraq); mem. Institut de France (Académie des Inscriptions et Belles-Lettres); Corresp. Fellow of the British Acad.; Assoc. mem. Belgian Acad.; mem. Institutum Archaeologicum Germanicum; Grand Croix Ordre du Mérite, Commdr. Légion d'honneur, des Arts et des Lettres; Croix de guerre 1939-45. *Publications:* Mari, une ville perdue 1936, Archéologie mésopotamienne 1946-53, Tello—vingt campagnes de fouilles 1948, Ziggurats et Tour de Babel 1948, Découverte des mondes ensevelis 1952, Mari—le temple d'Ishtar 1956, Mari—le Palais (3 vols.) 1958-59, Sumer 1960, Assur 1961, Abraham et son temps 1962, Terre du Christ 1965, Les Temples d'Ishtarat et de Ninnizaza 1967, Le trésor d'Ur 1968, Sumerian Art 1969, Mari, capitale fabuleuse 1974. *Address:* 11 rue du Val Grâce, Paris 5e, France. *Telephone:* ODEon 75-83.

PARROTT, Sir Cecil Cuthbert, K.C.M.G., O.B.E., M.A.; British diplomatist, professor emeritus, writer and broadcaster; b. 29 Jan. 1909, Plymouth, Devon; s. of Capt. J. W. A. Parrott, R.N. and Grace Edith West; m. Ellen Matzow 1935; three s.; ed. Berkhamsted and Peterhouse, Cambridge; Head, UN Dept., Foreign Office 1950-52; Principal Political Adviser to U.K. Del. to UN 1952; Counsellor, Brussels 1952-54; Minister, Moscow 1954-57; Librarian, Dir. of Research and Keeper of the Papers at the Foreign Office 1957-60; Amb. to Czechoslovakia 1960-66; Prof. of Russian and Soviet Studies 1966-71, Prof. of Central and South-Eastern European Studies 1971-76, Prof. Emer. 1976-, Dir. Comenius Centre, Lancaster Univ. 1968-; Hon. Fellow, Inst. of Linguists; Vice-Chair. D'Oyly Carte Opera Trust. *Publications:* First complete translation into English of The Good Soldier Svejk, The Tightrope, The Serpent and the Nightingale, The Bad Bohemian. *Leisure interests:* music, theatre, nature study. *Address:* Lonsdale College, University of Lancaster, Bailrigg, Lancaster, England. *Telephone:* Lancaster 65201.

PARRY, John Horace, C.M.G., M.B.E.; British historian; b. 26 April 1914, Handsworth, Staffs; s. of Walter A. and Ethel (née Piddock) Parry; m. Joyce Carter 1939; one s. three d.; ed. King Edward's School, Birmingham, and Clare Coll., Cambridge; Royal Navy 1940-45; Tutor, Clare Coll., Cambridge and Univ. Lecturer in History 1945-49; Prof. of Modern History Univ. Coll. of W. Indies 1949-56; Principal of Univ. of Ibadan, Nigeria 1956-60, Univ. Coll. of Swansea 1960-65; Vice-Chancellor, Univ. of Wales 1963-65; Gardiner Prof. of Oceanic History and Affairs, Harvard Univ. Oct. 1965-; Commdr., Order of Alfonso X (Spain). *Publications:* The Spanish Theory of Empire 1940, The Audiencia of New Galicia 1948, Europe and a Wider World 1949, The Sale of Public Office in the Spanish Indies 1953, A Short History of the West Indies 1956, The Age of Reconnaissance 1963, The Spanish Seaborne Empire 1966, The European Reconnaissance (ed.) 1968, Trade and Dominion 1971, The Discovery of the Sea 1974. *Leisure interests:* fishing, sailing, ornithology, mountain walking. *Address:* Widener 45, Harvard University, Cambridge, Mass. 02138, U.S.A.

PARRY, Sir Thomas, Kt., D.LITT., F.B.A.; British university principal; b. 14 Aug. 1904, Carmel, Wales; s. of Richard and Jane Parry; m. Enid Picton Davies 1936; ed. Univ. Coll. of North Wales, Bangor; Asst. Lecturer in Welsh and Latin, Univ. Coll., Cardiff 1926-29; Lecturer in Welsh, Univ. Coll., Bangor 1929-47, Prof. of Welsh 1947-53; Librarian of the Nat. Library of Wales, Aberystwyth 1953-58; Prin., Univ. Coll. of Wales, Aberystwyth 1958-69; Vice-Chancellor, Univ. of Wales 1961-63, 1967-69; Pres. Nat. Library of Wales 1969-77; Hon. D.Litt. Celt (N.U.I.), Hon. LL.D. (Wales). *Publications:* Hanes Llenyddiaeth Gymraeg (History of Welsh Literature) 1945, Lladd wrth yr Allor (Eliot's Murder in the Cathedral), Gwaith Dafydd ap Gwilym 1952, Llywelyn Fawr (a play) 1954, Oxford Book of Welsh Verse (ed.) 1962, Llfryddiaeth Llenyddiaeth Gymraeg (joint-ed.) 1976. *Address:* 2 Victoria Avenue, Bangor, Gwynedd, Wales. *Telephone:* 0248-4460.

PARSLOE, Guy; British author and administrator; b. 5 Nov. 1900, Stroud Green, Middx.; s. of Henry Edward Parsloe and Emma Jane Gamlen; m. Mary Zirphie Munro Faiers 1929; two s. one d.; ed. London Univ.; Sec. and Librarian Inst. of Historical Research 1927-43; Sec. Inst. of Welding 1943-67; First Sec.-Gen. Int. Inst. of Welding 1948-66, Vice-Pres. 1966-69; Sec. O.E.E.C. Welding Techniques Mission to U.S.A. 1953; Ed.-in-Chief British Welding Journal 1954-67; Sec. British Commonwealth Welding Confs. 1957, 1965; Pres. Junior Inst. of Engineers 1966-67; Bibliographical Consultant 1968-72. *Publications:* The English Country Town, ca. 400 bibliographies in Cambridge Bibliography of English Literature; Editor Guide to the Historical Publications of the Societies of England and Wales 1929-43, Minute Book of the Corporation of Bedford 1647-1664, Wimbledon Village Club and Lecture Hall: 1858-1958—A Centenary Record, Wardens' Accounts of the Worshipful Company of Founders of the City of London 1497-1681. *Leisure interests:* gardening, historical research. *Address:* 1 Leopold Avenue, London, SW19 7ET, England. *Telephone:* 01-946 0764.

PARSONS, Sir Anthony Derrick, K.C.M.G., M.V.O., M.C., M.A. (OXON); British diplomatist; b. 9 Sept. 1922, London; s. of late Col. H. A. J. Parsons; m. Sheila Emily Baird 1948; two s. two d.; ed. King's School Canterbury, Balliol Coll., Oxford; Army service 1940-54; Asst. Mil. Attaché, Baghdad 1952-54; Foreign Office 1954-55; at British Embassy, Ankara 1955-59, Amman 1959-60, Cairo 1960-61; Foreign Office 1961-64; British Embassy, Khartoum 1964-65; British Political Agent, Bahrain 1965-69; with U.K. Mission to UN 1969-71; FCO 1971-74; Amb. to Iran 1974-79; Deputy to Perm. Under-Sec., FCO 1979; Perm. Rep. to UN 1979-. *Address:* Permanent Mission of United Kingdom to United Nations, 10th Floor, 845 Third Avenue, New York, N.Y. 10022, U.S.A.

PART, Sir Antony Alexander, G.C.B., M.B.E., B.A.; British business executive and fmr. civil servant; b. 28 June 1916, London; s. of late Alexander Francis Part and late Una Margaret Reynolds (née Snowdon); m. Isabella Bennett 1940; ed. Harrow School and Trinity Coll., Cambridge; Asst. Principal, Board of Educ. 1937-39; Asst. Private Sec. to successive Ministers of Supply 1939-40; Army 1940-44; Private Sec. to successive Ministers of Educ. 1945-46; Head of Bldg. Branch, Ministry of Educ. 1946-52; Commonwealth Fund Fellowship, U.S.A. 1950-51; Under-Sec., Ministry of Educ. 1954-60, Head of Further Educ. Branch 1956-60, Deputy Sec. 1960-63; Deputy Sec., Ministry of Public Bldg. and Works 1963-65, Perm. Sec. 1965-68; Perm. Sec. Board of Trade 1968-70, Dept. of Trade and Industry 1970-74, Dept. of Industry 1974-76; Chair. Orion Insurance Co. Oct. 1976-; Dir. of numerous other cos.; Gov. London School of Econs. 1968-, Admin. Staff Coll. 1968-; Hon. D.Tech. (Brunel) 1966, (Cranfield) 1976; Hon. D.Sc. (Aston) 1974. *Leisure interest:* travel. *Address:* Orion Insurance Company, 70 King William Street, London E.C.4 (Office); Flat 5, 71 Elm Park Gardens, London, S.W.10, England (Home). *Telephone:* 01-626 4567 (Office); 01-352 2950 (Home).

PARTHASARATHI, Gopalaswami, M.A.; Indian diplomatist; b. 7 July 1912, Madras; s. of late Sir N. Gopalaswami Ayyengar and Komalammal Parthasarathi; m. Subur Mugaseth 1939; one s.; ed. Univ. of Madras and Oxford Univ.; Asst. Editor The Hindu 1936-49; Chief Rep. Press Trust of India, London 1949-52, Chief Ed. Press Trust of India 1951-53; Chair. Int. Comm. for Cambodia 1954-55; Int. Supervisory Comm. for Viet-Nam 1955-56; Amb. to Indonesia 1957-58, to People's Repub. of China 1958-61; Chair. Int. Comm. for Supervision and Control, Viet-Nam 1961-62; High Commr. in Pakistan 1962-65; Perm. Rep. of India to UN 1965-69; Rep. to Security Council 1967, 1968, Pres. 1967, Chair. Security Council Sanctions Cttee. on Rhodesia 1968; Vice-Chancellor of Jawaharlal Nehru Univ. 1969-74; Chair. Policy Planning Cttee., Ministry of Foreign Affairs 1975-77; mem. Board of Trustees UN Inst. for Training and Research 1970-. *Leisure interests:* cricket, tennis, hockey, reading. *Address:* C-288, Defence Colony, New Delhi 110 024, India. *Telephone:* 693107.

PARTRIDGE, Sir (Ernest) John, K.B.E.; British business executive; b. 18 July 1908, Bristol; s. of William Henry and Alice Mary Partridge; m. 1st Madeline Fabian 1934 (died 1944), 2nd Joan Johnson 1949; two s. two d.; ed. Queen Elizabeth's Hospital, Bristol; Asst. Sec. Imperial Group Ltd. 1944-46, Sec. 1946-57, Dir. 1949-75, mem. Exec. Cttee. 1957-60, Deputy Chair. 1960-64, Chair. 1964-75; Dir. British-American Tobacco Co. Ltd. 1963-75, Nat. Westminster Bank 1968-78, Tobacco Securities Trust 1964-75, Gen. Accident Fire and Life Assurance Corpn. Ltd. 1973-, Dunlop Holdings Ltd. 1973-, Delta Metal Co. Ltd. 1973-, Finance for Industry 1975-78; Chair. Council of Industry for Man. Educ. 1967-71; Pres. Confed. of British Industry 1970-72, Vice-Pres. 1972-76, Chair. CBI Educ. Foundation 1976-; Vice-Pres. Industrial Participation Assn. 1966-; mem. Nat. Econ. Devt. Council 1967-75, Council of Industrial Soc. 1968-75, Int. Advisory Board of Chemical Bank, U.S.A. 1972-78; Pres. Foundation for Man. Educ. 1972-, Nat. Council of Social Services 1973-; Fellow, British Inst. of Man. 1963-; Gov. London Graduate School of Business Studies 1967-75, Nat. Inst. of Econ. and Social Research 1971-; Hon. LL.D. (Bristol) 1972, Hon. D.Sc. (Cranfield Inst. of Tech.) 1974. *Leisure interests:* gardening, listening to music, walking. *Address:* Imperial House, 1 Grosvenor Place, London S.W.1 (Office); Wildwood, Haslemere, Surrey, GU27 1DR, England (Home). *Telephone:* 01-235 7010 (Office).

PARTRIDGE, John Walters, B.S.; American utility executive; b. 24 July 1910, Helena, Mont.; s. of Joseph W. Partridge and Maude Walters; m. Virginia Akers 1940; one s. one d.; ed. Lafayette Coll.; Engineer, Columbia Gas System 1931; Pres. Charleston Group Companies 1951-61; Pres. and Dir. Columbia Gas System Inc. 1961-70, Vice-Chair. of Board and Chief Admin. Officer 1970-71, Chair. and Chief Exec. Officer 1971-. *Leisure interests:* golf, sport. *Address:* 20 Montchanin Road, Wilmington, Del. 19807 (Office); 904 Du Pont Road, Wilmington, Del. 19807, U.S.A. (Home). *Telephone:* 302 429-5205 (Office); 302 654-4243 (Home).

PARTRIDGE, Mark Henry Heathcote; Rhodesian chartered accountant and politician; b. 23 Nov. 1922, East Rand, Transvaal; ed. St. George's Coll., Salisbury; served in King's Royal Rifle Corps, Middle East, Italy, Greece 1940-45; with own accountancy firm, Rocke, Partridge & Adair, Salisbury; mem. Parl. for Greendale 1962; Minister of Local Govt. and Housing 1966-73, of Lands and Natural Resources and of Water Devt. 1973-77, of Defence March-Sept. 1977, of Agric. 1977-79 (Co-Minister 1978-79); Independence Commemorative Decoration, Grand Officer of Legion of Merit. *Address:* Private Bag 7726, Causeway, Salisbury, Zimbabwe Rhodesia.

PASHKOV, Mikhail Vasilliyevich; Soviet trade union official; b. 22 Nov. 1917, Zhernovets, Kursk region; ed. Ukrainian Polygraphic Inst. and Higher Party School; Komsomol official, Volchansk, Kharkovsky Region 1930-34; Student, Ukrainian Polygraphic Inst.; Engineer, Printing works, Kharkov 1939-40; C.P. official, Moscow 1940-52; Deputy Chief of Gen. Man. Dept. of Printing and Publishing Industries, Council of Ministers of U.S.S.R. 1952-53; Deputy Minister of Culture of R.S.F.S.R. 1953-61; Rector, Moscow Polygraphic Inst.; Chair. Scientific Technical Soc. of Printing and Publishing Industry of U.S.S.R.; mem. Central Cttee. of Cultural Workers' Union 1961-66, Chair. 1966-; mem. All-Union Council of Trade Unions 1968. *Address:* c/o Central Committee of Cultural Workers' Union, 42 Leninsky Prospekt, Moscow, U.S.S.R.

PASMORE, (Edwin John) Victor, C.B.E., M.A.; British artist; b. 3 Dec. 1908; ed. Harrow School and L.C.C. Central School of Arts and Crafts (evening classes); Local Govt. service, L.C.C. County Hall 1927-37; associated with "Euston Road" school of painting 1937-39; Visiting Teacher Camberwell School of Art 1945-49, Cen. School of Arts and Crafts 1949-53; Master of Painting, Durham Univ. 1954-61; Consultant Architectural Designer Peterlee New Town 1955; retrospective exhbns. Venice Biennale 1960, Musée des Arts Décoratifs, Paris 1961, Stedelijk Museum, Amsterdam 1961, Palais des Beaux Arts, Brussels 1961, Louisiana Museum, Copenhagen 1962, Kestner Gesellschaft, Hanover 1962, Kunsthalle, Berne 1963, Tate Gallery, London 1965, São Paulo Biennale 1965, Marlborough Gallery, London 1966, 1969, 1972, etc.; mem. ICA (London); Trustee, Tate Gallery, Carnegie Prize for Painting 1964, Grand Prix d'honneur, Int. Graphics Biennale 1977. *Principal works include:* The Gardens of Hammersmith (Nat. Gallery of Canada), The Thames at Chiswick (Melbourne Nat. Gallery), The Snow Storm (Arts Council of Great Britain), The Inland Sea, Abstract Relief (Tate Gallery), Abstract Mural Painting (Barnsbury School, London). *Address:* 12 St. German's Place, Blackheath, London, S.E.3, England. *Telephone:* 01-858 0369.

PASSARINHO, Jarbas Gonçalves; Brazilian politician; b. 11 Jan. 1920, Xapuri, Acre; s. of Ignácio Loyola Passarinho and Júlia Gonçalves Passarinho; m. Ruth de Castro Passarinho 1945; two s. three d.; ed. Escola Militar do Realengo, Escola de Comando and Estado-Major de Exército; Gov., State of Pará 1964-66; Pres. ARENA, Pará; Senator, State of Pará 1966-67; Minister of Labour and Social Welfare 1967-69; Minister of Education and Culture 1969-74; Pres. Brazilian Del. to Int. Cong. UNESCO 1970-71; Chief of Brazilian Del., Inter-American Council for Education, Science and Culture, Perm. Exec. Cttee. 1972; Senator, Pará State 1975-; Majority Leader Fed. Senate; numerous awards. *Publications:* Terra Encharcada (Samuel MacDowell Prize), Roteiro 1964, Amazonia—The Challenge of the Tropics 1971. *Leisure interest:* sports. *Address:* SQS 309, Bl. G, Apt. 503, 242-2669, Brasília, D.F., Brazil.

PASSUTH, László, LL.D.; Hungarian writer; b. 15 July 1900, Budapest; s. of the late Francis Passuth and Emanuela Eber; m. Lola de Békésy 1936; one d.; ed. Kolozsvár, Cluj and Szeged Univ.; first novel 1936; mem. Cttee. for Foreign Affairs, Assn. of Hungarian Writers, European Community of Writers; Vice-Pres. Hungarian PEN Club; novels translated into 11 languages. *Publications include:* The Rain-God Mourns for Mexico 1939, Joanna of Naples 1940, A Castle in Lombardy 1941, Born in Purple 1943, In Black Velvet 1947, The Musician of the Duke of Mantua 1957, Lagunes 1958, The Gods Shiver in Golden Mist 1964, The Third Majordomo, Velasquez 1965, Exploring the Past (autobiog.) 1966, Madrigal 1968, Copper Age (autobiog.) 1969, Eternal Spain 1969, Hétszer Vágott Mezö (Andrew II—historical novel) 1971, Encounter with The Rain God—Voyage in Mexico 1972, Gyilokjáró (Around the Bastions—autobiog.) 1973, Speculum regis (King-Emperor Sigismund) 1974, Emlék és folytatás (Reminiscence and Continuation) 1975, Tornyok árnyékában (In the Shadow of the Towers) 1977, Barlangképek (Cave Pictures) (autobiog.) 1978, and other essays and studies. *Leisure interests:* archaeology, travel. *Address:* H-1024 Budapest II, Rózsahegy u.1, Hungary. *Telephone:* 355-825.

PASTINEN, Ilkka Olavi, M.POL.SC.; Finnish diplomatist; b. 17 March 1928, Turku; s. of Martti Mikael and Ilmi Saga Karlström Pastinen; m. Eva Marja Viitanen 1950; two d.; ed. Åbo (Turku) Akad., Inst. d'Etudes Politiques, Paris, Inst. Int. des Sciences et Recherches Diplomatiques; entered Foreign Service 1952; served Stockholm 1955-57, Mission to UN 1957-59; Deputy Chief of Mission, London 1966-69; Amb., Deputy Perm. Rep. to UN and Deputy Rep. to Security Council 1969-70; Amb., Perm. Rep. to UN 1977-. *Leisure interests:* golf, music, bridge, *Address:* Permanent Mission of Finland to the United Nations, 866 United Nations Plaza, 2nd Floor, New York, N.Y., 10017 (Office); 165 Boulevard, Pelham, N.Y. 10803, U.S.A. (Home).

PASTORE, John O., LL.B.; American lawyer and politician; b. 17 March 1907, Providence, R.I.; m. Elena E. Caito 1941; one s. two d.; ed. Providence Classical High School and Northeastern Univ.; admitted to Rhode Island Bar 1932; mem. House of Reps., Rhode Island Gen. Assembly 1934-38; Asst. Attorney-Gen., Rhode Island 1937-38, 1940-41; Lieut.-Gov. Rhode Island 1944-45, Gov. 1945-50; U.S. Senator from Rhode Island 1950-77, retd.; mem. Joint Cttee. on Atomic Energy, Commerce and Appropriations Senate Cttees.; mem. U.S. Delegation to UN 1955, Congressional Adviser with reference to Int. Atomic Energy Agency (IAEA); Senator-Designee, first Conf. on Peaceful Uses of Atomic Energy, Geneva 1955, initiation of IAEA, Vienna 1957; Hon. LL.D. (Providence Coll., Rhode Island Univ., Brown Univ., Northeastern Univ., Salve Regina Coll., New Bedford Inst. of Tech., Phil. Coll. of Textiles and Science, Suffolk Univ., Villanova Univ.); Hon. Ed.D. (Rhode Island Coll. of Education; Hon. Sc.D. Rhode Island Coll. of Pharmacy, Bryant Coll.); Democrat. *Address:* 301 P.O. Annex, Providence, R.I., U.S.A.

PASTORINO VISCARDI, Enrique Juan; Uruguayan trade union official; b. 6 March 1918, Montevideo; s. of Antonio and

Catalina Pastorino Viscardi; m. Alba Chasate; two s. one d.; ed. primary schools; Sec. Union of Workers of the Leather Industry 1940; Sec. Gen. Union of Workers of Uruguay 1950; Sec. Central Council of Workers of Uruguay 1960; Sec. Nat. Convention of Workers of Uruguay 1966-; Pres. World Fed. of Trade Unions (WFTU) 1969-78, Gen.-Sec. April 1978-; Lenin Peace Prize 1973. *Leisure interest:* studies on social questions. *Address:* World Federation of Trade Unions, Nám. Curieovych 1, Prague, Czechoslovakia; Calle Ganaderos, 4306, Montevideo, Uruguay (Home). *Telephone:* 95870 (Montevideo).

PASTRANA BORRERO, Misael, LL.D.; Colombian politician and diplomatist; b. 14 Nov. 1923, Neiva; s. of Misael Pastrana Pastrana and Elisa Borrero de Pastrana; m. Cristina Arango Vega; three s. one d.; ed. Pontificia Univ. Javeriana, Bogotá; Founder and editor El Porvenir and Civil Law Circuit Judge 1945; Sec. Colombian Embassy, The Vatican 1947-49; Private Sec. to Pres. Ospina Pérez 1949-50; Counsellor, Colombian Embassy, Washington, D.C. 1950-52; Sec. Ministry of Foreign Affairs 1953; alt. rep. at UN 1954-56; Founder and Vice-Pres. Corporación Financiera Colombiana 1957; Minister of Devt. 1960, of Public Works and Finance 1961; in private business 1961-65; Minister of the Interior 1966-68; Amb. to U.S.A. 1968-69; Pres. of Colombia 1970-74; Conservative (Nat. Front Coalition). *Address:* c/o Partido Conservador, Bogotá, D.E., Colombia.

PĂȚAN, Ion; Romanian economist and politician; b. 1 Dec. 1926, Daia, Alba County; ed. Economic Studies Acad., Bucharest; several posts in the Ministry of Light Industry 1956-62, Gen. Sec. 1962-64; Deputy Minister of Light Industry 1964-65; Alt. mem. Cen. Cttee. of R.C.P. 1965-69, mem. 1969-; Head of Section, Cen. Cttee. R.C.P. 1965-68; mem. Grand Nat. Assembly 1969-; Alt. mem. Exec. Political Cttee. 1972-74; mem. 1974-; mem. Standing Bureau 1974-; Minister of Home Trade 1968-69; Vice-Chair. Council of Ministers 1969-; Minister of Foreign Trade 1972-78; Chair. Govt. Comm. on Econ. and Tech. Cooperation 1974-; Minister for Tech. Material Supply and Fixed Assets Man. Control March 1978-; Perm. Rep. to COMECON 1978-. *Address:* Ministerul Aprovizionării Tehnico-materiale și Controlului Gospodăririi Fondurilor Fixe, Calea Victoriei 152, Bucharest, Romania. *Telephone:* 50 50 60.

PATASSÉ, Ange; Central African Empire (fmrly. Republic) politician; b. 25 Jan. 1937; ed. French Equatorial Coll.; Agricultural inspector 1959-65; Dir. of Agric. 1965; Minister of Devt. 1965; Minister of State for Transport and Power March 1969-Feb. 1970, concurrently Minister of State for Devt. and Tourism Sept. 1969-Feb. 1970; Minister of State for Agric., Stock-breeding, Waters and Forests, Hunting, Tourism, Transport and Power Feb.-June 1970; Minister of State for Devt. June-Aug. 1970; Minister of State for Transport and Commerce 1970-72, for Rural Devt. May 1972-73, of Health and Social Affairs 1973-74; Minister of State for Tourism, Waters, Fishing and Hunting 1974-76, Prime Minister 1976-78, also Keeper of the Seals Sept.-Dec. 1976; Vice-Pres. Council of the Cen. African Revolution Sept.-Dec. 1976; Pres. Soc. Franco-Centrafricaine des Tabacs, Union Cotonnière Centrafricaine 1970. *Address:* c/o Office du Premier Ministre, Bangui, Central African Empire.

PATEL, Babhubai Jashbhai, LL.B.; Indian politician; b. 9 Feb. 1911, Nadiad, Kaira District, Gujarat; ed. Govt. High School, Nadiad; Baroda Coll. and Ferguson Coll., Poona; Wilson Coll. and St. Xaviers Coll., Bombay; Govt. Law Coll., Bombay; took part in Independence Movement, detained six times 1930-41; took part in Quit India Movement 1942; mem. Bombay Legis. Assembly 1937-67; Parl. Sec. to Chief Minister of Bombay 1949-52; Deputy Minister, Public Works Dept. and Transport 1952-56; Minister for Planning, Devt., Electricity and Housing, Bombay Govt. 1956-57; joined Govt. of Gujarat 1967; Minister for Public Works Dept., Electricity and Civil Supplies and later for Finance in Gujarat Govt. 1967-71; Chief Minister of Gujarat 1975-76, April 1977-; Del. to Commonwealth Park Conf., Canada 1977; Fellow, Bombay Univ. and Gujarat Univ. 1946-52; Janata Party. *Publication:* Three Years of State Transport, Bombay State. *Address:* Office of the Chief Minister, Gujarat State, Gandhinagar 382010 (Office); 29 Panchsheel Society, Usmanpura, Ahmedabad 380013, India (Home).

PATEL, Baburao; Indian writer, editor and film producer; b. 4 April 1904, Maswan District, Thana, Maharashtra; s. of Pandurang V. Patel and Jamna P. Patel; m. 1st 1922, 2nd 1945; five s. two d.; began freelance journalism 1922; wrote, directed and produced motion pictures, founder and Editor Filmindia 1935-; lectured in U.S. and Europe on India's ancient culture and civilization; set up production code and fought for revision of film censorship; Ed. Mother India; Man. Dir. Sumati Publications Pvt. Ltd. 1958; M.P. for Shajapur 1967-; Founder and Chair., Mother India Pharmaceuticals Ltd. *Publications:* Grey Dust, Burning Words, The Sermon of the Lord, Prayer Book, Rosary and the Lamp, Homœopathic Lifesavers for Home and Community; Films: (wrote and produced) Kismet, Mahananda, Bala Joban, My Darling, Maharanee, Draupadi, Gvalan. *Leisure interests:* astrology, classical music, healing by homœopathy. *Address:* Girnar, Pali Hill, Bombay 50, India. *Telephone:* 261752 (Office); 533414 (Home).

PATEL, Hirubhai, C.I.E., B.A., B.COM.; Indian politician; b. 26 Aug. 1904, Bombay; s. of Muljibhai and Hiraben Patel; m. Savitaben Patel 1928; ed. Oxford and London Univs.; Separation Officer, Sing 1935; Finance Dept., Bombay 1936; Sec. to Stock Exchange Cttee. 1936-37; Trade Commr., for N. Europe, Hamburg 1937-39; Deputy Trade Commr., London 1939-40; Deputy Sec. Eastern Group Supply Council 1941-42; Deputy Dir. Gen., Supply Dept. 1942-43; Joint Sec. and Sec., Industries and Civil Supplies Dept. 1943-46, Cabinet Secr. 1946-47; Defence and Partition Sec. 1947-53; Sec. Food and Agric. 1953-54, Dept. of Econ. Affairs, Ministry of Finance 1957; Principal Finance Sec. 1957-59; Chair. Life Insurance Corpn. of India 1956-57; Chair Gujarat Electricity Board 1960-66; mem. Gujarat Legislative Assembly 1967-71; Chair. Charutar Vidyamandal, Vallal Vidyanagar 1959-; Pres. Gujarat Swatantra Party 1967-72, All India Swatantra Party 1971-72; Minister of Finance 1977-79, of Home Affairs 1979-; Gov. IMF June 1977-; mem. Lok Sabha March 1971-; mem. Cttee. of Janata Party Jan. 1977-; Hon. LL.D. (Sardar Patel Univ.). *Address:* Ministry of Home Affairs, New Delhi, India.

PATEL, Indraprasad Gordhanbhai, PH.D.; Indian economist; b. 11 Nov. 1924, Baroda; s. of Gordhanbhai Patel and Kashiben Patel; m. Alaknanda Dasgupta 1958; one d.; ed. Baroda Coll., Bombay Univ., King's Coll., Cambridge and Harvard Univ.; Prof. of Econs., Maharaja Sayajirao Univ., Baroda 1949-50; Economist and Asst. Chief, Financial Problems and Policies Div., IMF 1950-54; Deputy Econ. Adviser, Indian Ministry of Finance 1954-58; Alt. Exec. Dir. for India, IMF 1958-61; Chief Econ. Adviser, Ministry of Finance, India 1961-63, 1965-67, Econ. Adviser Planning Comm. 1961-63; Special Sec. Ministry of Finance 1968-69, Sec. 1970-72; Deputy Admin., UN Devt. Programme 1972-77; Gov. Reserve Bank of India Dec. 1977-; Visiting Prof., Delhi School of Econs., Delhi Univ. 1964. *Publications:* articles on inflation and econ. devt., monetary and credit policy, etc. *Leisure interests:* reading, music. *Address:* Reserve Bank of India, Central Office, Bombay 400 001 (Office); 11 Tin Murti Lane, New Delhi 11, India (Home). *Telephone:* 611931 (Home).

PATEL, Jeram; Indian painter and graphic designer; b. 20 June 1930; ed. Sir J. J. School of Art, Bombay, Central School of Arts and Crafts, London; Reader in Applied Arts, M.S. Univ., Baroda 1960-61; Reader in Visual Design, School of Architecture, Ahmedabad 1961-62; Deputy Dir. All India Handloom Board 1963-66; Reader in Applied Arts, M.S. Univ. Baroda 1966-; mem. Group 1890 (avant-garde group of Indian artists), Lalit Kala Akademi; one man exhbns. in London 1959, New Delhi 1960, 1962-65, in Calcutta 1966; in Tokyo Biennale 1957-63, São Paulo Biennale 1963; represented in Nat. Gallery of Modern Art, New Delhi, Art Soc. of India, Bombay, Sir J. J. Inst. of Applied Art, Bombay, and in private collections in U.S.A., London, Paris and Tokyo; Lalit Kala Akademi Nat. Awards 1957, 1964; Bombay State Award 1957; Silver Medal, Bombay Art Soc. 1961; Gold Medal Rajkot Exhbn. *Address:* Faculty of Fine Arts, M.S. University, Baroda 2, India.

PATHAK, Gopal Swarup, M.A., LL.B.; Indian lawyer and politician; b. 26 Feb. 1896, Bareilly, Uttar Pradesh; s. of Pt. Krishan Swarup Pathak and Puran Devi; m. Prakash Wati Pathak 1921; three s. three d.; began law practice 1919; Judge, Allahabad High Court 1945-46; mem. Rajya Sabha for Uttar Pradesh, Chair. Rajya Sabha 1969-74; Minister of Law 1966-67; Gov. of Mysore 1967-69; Vice-Pres. of India 1969-74; one-time Pres. Indian Soc. of Int. Law; fmr. mem. Law Comm. of India and Judicial Reforms Cttee., Uttar Pradesh; Ex-Chancellor of Univs. of Mysore, Bangalore, Karnataka, Delhi and Punjab; fmr. Dir. Press Trust of India; mem. Indian Law Inst., Int. Law Inst.; Hon. LL.D. (Saugar, Bhagalpur and Kurukshetra), Hon. Dr. of Social Sciences (Roorkee), Hon. D.Lit. (Punjabi), Patiala Vidya Vachaspati (Darbhanga Sanskrit Univ.). *Leisure interests:* golf and yoga. *Address:* A-133 Neeti Bagh, New Delhi, India. *Telephone:* 611936.

PATIL, Veerendra, B.A., LL.B.; Indian politician and lawyer; b. 28 Feb. 1924, Chincholi, Gulbarga District S. of Basappa and Chinnamma Patil; m. Saradabai (Patil) 1942; one s. two d.; ed. Osmania Univ., Hyderabad; practised law 1947, 1950-55; mem. Hyderabad State Assembly 1952, 1957, 1962-; Deputy Minister for Home and Industries, Mysore till 1958; Minister for Excise and Rural Industries 1961-62, for Public Works 1962-; Chief Minister of Mysore 1968-72; mem. Rajya Sabha 1972-; Pres. Karnataka Pradesh Con-

gress Cttee. 1971-77; mem. Del. to U.S.S.R. 1965, to Japan and S.E. Asia 1970, to Australia 1972, to U.K. and Europe 1973; Perm. mem. Working Cttee. of Janata Party; Chair. State Advisory Board on ports; mem. Nat. Harbour Board; mem. del. to U.S.S.R. 1965, Japan and S.E. Asia 1970, Australia 1972, U.K. and Europe 1973; Janata Party. *Leisure interests:* golf, tennis. *Address:* 174-49, 9th Main Road, II Cross, Rajamahal Vilas Extension, Bangalore 560 006, India. *Telephone:* 30998.

PATILINET, Vasile; Romanian politician; b. 21 Dec. 1923, Lupeni, Hunedoara County; ed. Acad. of Econ. Studies, Bucharest; joined Union of Communist Youth 1940; mem. Bureau UCY Lupeni; activist, then Sec. UCY Cttee. Hunedoara County 1945-48; mem. Romanian Communist Party (RCP) 1945-; political worker RCP Cttee. Hunedoara County 1948-49, Arad County 1949-50; Sec. RCP Cttee. Timişoara Region 1951-52; First Sec. 1952-56; Head of Section RCP Cen. Cttee. 1959-65; mem. Cen. Cttee. 1955-; Sec. Cen. Cttee. 1965-72; alt. mem. Exec. Political Cttee. 1969-; Ministry for Forestry and Building Materials 1972-77; Minister for Mining, Oil and Geology 1977-; mem. Grand Nat. Assembly 1961-. *Address:* Ministerul Minelor, Petrolului şi Geologiei, Str. Mendeleev 36-38, Bucharest, Romania. *Telephone:* 33 03 50.

PATIÑO, Antenor; Bolivian diplomatist and businessman; b. 12 Oct. 1898, Oruro; ed. Univ. de Paris Law Faculty; fmrly. Sec. Bolivian Legation, Paris, Chargé d'affaires, Madrid and mem. Bolivian Del. to UN; Minister to U.K. 1941-44; Chair. Patiño N.V.-Cie. Française d'Entreprises Minières Métallurgiques et d'Investissements (COFREMMI); Pres. Consolidated Tin Smelters Ltd., Patiño Mines (Quebec) Ltd., Cía. Estanífera do Brasil (CESBRA), Cia. Espírito Santo de Mineração (CESMI); Grand Officer Condor of the Andes, Chevalier Légion d'honneur. *Address:* 45 avenue Foch, 75116 Paris (Office); 9 avenue Maréchal Maunoury, 75016 Paris, France (Home). *Telephone:* 727-44-64 (Office); 504-52-51 (Home).

PATNAIK, Bijoyananda (Biju); Indian politician; b. 5 March 1916, Cuttack; ed. Ravenshaw Coll., Cuttack; joined Indian Nat. Airways; founded Kalinga Airways; participated in Quit India Movement 1942; elected to Orisa Legis. Assembly 1952, leader Pragati Party legis. group until 1973; Chief Minister of Orissa 1961-63; resigned to work in party org.; mem. Rajya Sabha 1972; Chair. Orissa Planning Board 1963-67, 1972; founded Kalinga Foundation Trust awarding Kalinga Prize for promotion and popularization of science; mem. Janata Party 1977-; mem. Lok Sabha March 1977-; Minister for Steel and Mines March 1977-. *Address:* Ministry of Steel and Mines, New Delhi, India.

PATOLICHEV, Nikolay Semyonovich; Soviet politician; b. 23 Sept. 1908; ed. Military Acad.; Mem. CPSU 1928-; held exec. posts for Young Communist League in Gorky and Chelyabinsk regions 1928-31; at Head Office of Central Cttee. of CPSU 1937-39; First Sec. of the Yaroslavl Regional Cttee. of the Party 1939-41, of the Chelyabinsk Regional Cttee. 1941-46; mem. Organizational Bureau and Sec. of the Central Cttee. of the Party 1946-47; Vice-Chair. of the Council for Collective Farms of the Soviet Govt. 1946-77; Sec. Ukrainian Communist Party Cen. Cttee. 1947; First Sec. Rostov Regional Cttee. of CP 1947-50; First Sec. Cen. Cttee. of CP Byelorussia 1950-56; mem. Cen. Cttee. of CPSU 1941-; mem. Orgburo of Cen. Cttee. of CPSU 1946-47; Cand. mem. Presidium of Cen. Cttee. of CPSU 1952-53; First Deputy Minister of Foreign Affairs of U.S.S.R. 1956-58; Minister of Foreign Trade 1958-; Deputy to U.S.S.R. Supreme Soviet 1938-; Order of Lenin (eight times), Order of the Red Banner of Labour. *Publication:* A Test of Maturity 1977. *Address:* Ministry of Foreign Trade, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

PATON, Alan Stewart, B.ED., B.SC.; South African writer and politician; b. 11 Jan. 1903, Pietermaritzburg, Natal; m. 1st Dorrie Francis, two s.; 2nd Anne Hopkins 1969; ed. Pietermaritzburg Coll. and Natal Univ.; Teacher 1924-36; Prin. Diepkloof Reformatory for African Juvenile Delinquents, Johannesburg 1936-48; Pres. Liberal Party of South Africa till 1968; started magazine Reality 1969; Hon. L.H.D. (Yale); Hon. D.Litt. (Kenyon Coll., Rhodes, Harvard, Trent, Willamette, Natal and Michigan); Hon. D.D. (Edinburgh); Hon. LL.D. (Witwatersrand); Freedom Award 1960; Award, Free Acad. of Art, Hamburg 1961. *Publications:* Cry, the Beloved Country 1948, Too Late the Phalarope 1953, The Land and People of South Africa 1955, South Africa in Transition 1956, Hope for South Africa 1958, Debbie Go Home (short stories) 1961, Hofmeyr 1965, Instrument of Thy Peace 1968, The Long View 1968, Kontakion for You Departed 1969. *musical* Mkhumbane (Village in the Gulley), Apartheid and the Archbishop 1973, Knocking on the Door 1975. *Leisure interests:* birdwatching, gardening, croquet. *Address:* P.O. Box 278, Hillcrest, Natal, South Africa. *Telephone:* Durban (Natal) 752720.

PATON, Sir Angus (see Paton, Sir Thomas Angus Lyall).

PATON, Boris Yevgeniyevich; Soviet metallurgist; b. 27 Nov. 1918, Kiev; ed. Kiev Polytechnic Inst.; Inst. of Electro Welding, Ukrainian S.S.R. Acad. of Sciences, Dir. 1953-; mem. CPSU 1952-; Corresp. mem. Ukrainian S.S.R. Acad. of Sciences 1951-58, mem. 1958-, Pres. 1962-; mem. U.S.S.R. Acad. of Sciences 1962-, mem. Presidium 1962-; Cand. mem. CPSU Central Cttee. 1961-66, mem. 1966-; Deputy to U.S.S.R. Supreme Soviet 1962-; Vice-Chair. Soviet of the Union U.S.S.R. Supreme Soviet 1973-74; mem. Bulgarian Acad. of Sciences 1969, Czechoslovak Acad. of Sciences 1973; State Prize 1950, Lenin Prize 1957, Hero of Socialist Labour 1969, Hammer and Sickle Gold Medal, Order of Lenin (twice), Red Banner of Labour and other decorations. *Address:* E. O. Paton Institute of Electro Welding, 69 Ulitsa Gorkogo, Kiev, U.S.S.R.

PATON, Sir George Whitecross, Kt., LL.D., M.A., D.C.L.; British educationist; b. 16 Aug. 1902, Geelong, Australia; s. of Rev. Frank and Mrs. Paton; m. Alice Watson 1931; one s. three d.; ed. Univ. of Melbourne and Magdalen Coll., Oxford; Asst. Lecturer, L.S.E. 1930-31; Prof. of Jurisprudence Univ. of Melbourne 1931-51, Vice-Chancellor 1951-68; Chair. Royal Comm. on Television (Australia) 1953; Chair. Australian Vice-Chancellor's Cttee. 1957-60. *Publications:* A Text Book of Jurisprudence, Bailment in the Common Law 1952. *Address:* 7 Dunraven Avenue, Toorak, Victoria, Australia. *Telephone:* 24-1034.

PATON, Sir (Thomas) Angus (Lyall), Kt., C.M.G., F.R.S.; British civil engineer; b. 10 May 1905, Jersey, C.I.; s. of Thomas Lyall Paton and Janet Gibb; m. Eleanor Joan Delmé-Murray (died 1964); two s. two d.; ed. Cheltenham Coll. and Univ. Coll., London; joined Sir Alexander Gibb and Partners 1925, Partner 1938, Senior Partner 1955-77; work in U.K., Canada, Burma and Turkey on harbour works, hydro-electric schemes and industrial projects; responsible for design and supervision of many projects, including Owen Falls and Kariba hydro-electric schemes and Indus Basin project, W. Pakistan; Senior Consultant Sir Alexander Gibb and Partners 1978; Pres. Inst. of Civil Engineers 1970-71; Chair. Council of Eng. Insts. 1973; Vice-Pres. Royal Soc. 1976-78; Hon. D.Sc.(Eng.) (London) 1977. *Publications:* numerous technical papers and articles on civil engineering; Power from Water 1960. *Leisure interests:* walking, do-it-yourself. *Address:* Earley House, London Road, Reading, Berks. (Office); 45 Richmond Hill Court, Richmond, Surrey, England (Home). *Telephone:* Reading 61061 (Office); 01-940 1270 (Home).

PATON, Sir William Drummond Macdonald, Kt., C.B.E., F.R.S., M.A., D.M., F.R.C.P.; British pharmacologist; b. 5 May 1917, Hendon, London; s. of Rev. William Paton and Grace Mackenzie Macdonald; m. Phoebe Margaret Rooke 1942; ed. Winchester House School, Repton School, Oxford Univ. and University Coll. Hospital Medical School; House Physician, Univ. Coll. Hospital (U.C.H.) 1942; Pathologist, Midhurst Sanatorium 1943; mem. staff Nat. Inst. for Med. Research 1944-52; Reader, Applied Pharmacology, U.C.H. 1952-54; Prof. of Pharmacology, Royal Coll. of Surgeons, London 1954-59; Prof. of Pharmacology, Oxford Univ., and Fellow Balliol Coll. 1959-; Sec. Physiological Soc. 1951-57; Medical Research Council 1963-67; Council of Royal Soc. 1967-69; Joint Ed. Notes and Records of the Royal Soc. 1971-; Chair. Research Defence Soc. 1972-77; Trustee, Wellcome Trust 1978-; Hon. F.F.A.R.C.S. 1975; Cameron Prize (with E. J. Zaimis) 1956; Gairdner Award (with E. J. Zaimis) 1959; Gold Medal Soc. of Apothecaries 1976; Clover Lecturer 1958; Paget Lecturer 1978; Bertram Louis Abraham Lecturer (R.C.P.) 1962; Oster Oration (R.C.P.) 1978. *Publications:* Pharmacological Principles and Practice (with J. P. Payne) 1968, and papers in scientific journals on diving and high-pressure biology, histamine, synaptic transmission, drug action and drug addiction. *Leisure interests:* music and old books. *Address:* University Department of Pharmacology, South Parks Road, Oxford (Office); 13 Staverton Road, Oxford, England (Home). *Telephone:* 512323 (Office); 58355 (Home).

PATRICIO, Rui Manuel de Medeiros d'Espiney, LL.D.; Portuguese lawyer and politician; b. 17 Aug. 1932, Lisbon; s. of Emílio Patricio and Maria Augusta Medeiros d'Espiney; m. Maria Ignês Morais Sarmento; two s. two d.; ed. Faculty of Law, Univ. of Lisbon; Asst., Faculty of Law, Univ. of Lisbon 1958-64; fmr. Prof. Instituto de Estudos Sociais; Del. to Congress of Int. Chamber of Commerce 1961, World Oil Congress 1963; Under-Sec. of State for Overseas Devt. 1965-69; Under-Sec. of State for Foreign Affairs 1969-70; Minister of Foreign Affairs 1970-74; Grand Cross of the Order of the Crown of Oak of Luxembourg; Grand Officier Légion d'honneur; Grand Officer of Order of Merit (Fed. Repub. Germany) and numerous other awards. *Address:* Avenida Infante Santo 61-6, Lisbon 3, Portugal.

PATRICK, John; American dramatist; b. 17 May 1905; ed. Holy Cross Coll., Harvard and Columbia Univs.; Radio writer, San Francisco 1932-35, film writer, Hollywood 1936-37, free-lance dramatist, London and New York 1940-; served American Field Service 1942-44; Pulitzer Prize 1954, Drama Critics Circle Award, Tony Award and Donelson Award 1954, Screen Writers' Guild Award 1957, Foreign Corresp. Award 1957, Hon. D.F.A. (Baldwin-Wallace Coll.) 1972. *Publications Plays:* The Willow and I 1942, The Hasty Heart 1945, The Story of Mary Surratt 1947, The Curious Savage 1950, Lo and Behold 1951, The Teahouse of the August Moon 1953, Good as Gold 1957, Everybody Loves Opal 1962, It's Been Wonderful 1965, Everybody's Girl 1966, Scandal Point 1967, Love is a Time of Day 1969, A Barrel Full of Pennies 1970, Opal is a Diamond 1971, Macbeth Did It 1971, The Dancing Mice 1971, Lovely Ladies, Kind Gentlemen (Musical) 1971, The Small Miracle (TV) 1972, Hallmark Hall of Fame (TV Script) 1972, Anybody Out There? 1972, The Savage Dilemma 1972, Opal's Baby 1974, The Enigma 1974, Opal's Husband 1975, A Bad Year For Tomatoes 1975, Divorce, Anyone? 1976, Suicide, Anyone? 1976, Noah's Animals (Musical) 1976; *films:* Enchantment 1948, The President's Lady 1952, Three Coins in the Fountain 1954, Mister Roberts 1954, A Many Splendoured Thing 1955, High Society 1956, Les Girls 1957, Some Came Running 1958, The World of Suzie Wong 1960, Gigot 1961, Main Attraction 1963, Shoes of the Fisherman 1968. *Address:* c/o The Dramatists' Guild, 234 West 44th Street, New York, N.Y. 10036; Fortuna Mill Estate, Box 3537, St. Thomas, U.S. Virgin Islands 00801, U.S.A. (Home).

PATRICK, Ruth, PH.D.; American limnologist; b. 26 Nov. 1907, Topeka, Kan.; d. of Frank and Myrtle Jetmore Patrick; m. Charles Hodge IV 1931; one s.; ed. Coker Coll. and Univ. of Virginia; Curator, Leidy Microscopical Soc. 1937-47; Asst. Curator, Microscopy Dept., Acad. of Natural Sciences of Philadelphia 1939-47, Curator Dept. of Limnology 1947-, Chair. 1947-73, Francis Boyer Chair. 1973-; Chair. Board of Trustees, Acad. of Natural Sciences of Philadelphia 1973-76, Hon. Chair. 1976-; Lecturer in Botany, Univ. of Pa. 1950-70, Prof. of Biology 1970-; Lecturer in Algae Course, Marine Biological Lab., Woods Hole, Mass. 1951-55; mem. limnological expedition to Mexico (sponsored by American Philosophical Soc.) 1947; leader of expedition to Peru and Brazil (sponsored by Catherwood Foundation) 1955; Chair. panel of Cttee. on Pollution, Nat. Acad of Sciences 1966; mem. many other cttees. concerned with water pollution, environmental resources and control; mem. Nat. Acad. of Sciences, American Assn. for the Advancement of Science, Ecological Soc. of America, American Soc. of Naturalists (Pres. 1975), Int. Assn. of Limnology, American Philosophical Soc., American Acad. of Arts and Sciences; Hon. mem. South Carolina Acad. of Sciences; Richard Hopper Day Memorial Medal, Acad. of Nat. Sciences 1969, YWCA Gold Medal 1970, Gold Medal, Phila. Soc. for Promoting Agric. 1975, Frances K. Hutchinson Medal 1977; Lewis L. Dollinger Pure Environment Award, Franklin Inst. 1970, 1970 Pennsylvania Award for Excellence in Science and Tech., Botanical Soc. of America Merit Award 1971, Eminent Ecologist Award, Ecological Soc. of America 1972, Philadelphia Award 1973, Second Annual Tyler Int. Ecology Award 1975, Dept. of Interior Public Service Award 1975, Iben Award 1976; Hon. D.Sc. from numerous univs. and colls.; Hon. LL.D. (Coker Coll.); Hon. L.H.D. (Chesnut Hill Coll.); Gold Medal (Royal Zoological Soc. of Antwerp) 1978; Hutchinson Award (Garden Club of America) 1977, Green World Award in Science (N.Y. Botanical Gardens) 1979. *Publications:* numerous articles in professional journals. *Address:* Department of Limnology, Academy of Natural Sciences of Philadelphia, 19th and The Parkway, Philadelphia, Pa. 19103, U.S.A. *Telephone:* (215) 299-1097.

PATSALIDES, Andreas, B.SC.ECONS.; Cypriot politician; b. 1922, Tseri, Nicosia; m.; two c.; ed. Greek Gymnasium, Limassol, School of Econs. and Political Science, London, and Harvard Univ., Mass.; various posts in public service; Gen. Dir. Planning Bureau 1962-68; Minister of Finance 1968-. *Address:* c/o Ministry of Finance, Nicosia, Cyprus. *Telephone:* Nicosia 70-213F.

PATTAKOS, Stylianos; Greek politician; b. [redacted] Nov. 1912, Crete; s. of George and Maria Pattakos; m. Dimitra Nickolaidou 1940; two d.; ed. high school, cadet school, War Coll. and Nat. Defence Acad.; commissioned 1937, promoted Maj.-Gen. Dec. 1967, retd.; Minister of the Interior 1967-73, Deputy Premier Dec. 1967; First Deputy Premier 1971-73; arrested Oct. 1974, sentenced to death for high treason and insurrection Aug. 1975 (sentence commuted to life imprisonment).

PATTERSON, Bryan; American palaeontologist; b. 10 Feb. 1909, London, England; s. of Lieut.-Col. John Henry Patterson, D.S.O., and Frances Helena Gray; m. Bernice Maurine Caine 1934; one s.; ed. Malvern Coll., England, Harvard Univ. and Univ. of Chicago; Asst. in Palaeontology to Curator of Fossil Mammals, Chicago Natural History Museum 1926-55; Alexander Agassiz Prof. of Vertebrate Palaeontology and Curator in Vertebrate Palaeontology, Harvard Univ. 1955-; mem. advisory panel earth sciences Nat. Science Foundation 1956-59; Guggenheim Foundation Fellow 1951-53, 1954-55; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Geological Soc. of America, etc. *Publications:* Technical articles in scientific journals. *Address:* 234 Brattle Street, Cambridge, Mass. 02138, U.S.A. *Telephone:* 864-3463.

PATTERSON, Right Rev. Cecil John, C.M.G., C.B.E., D.D., M.A.; British ecclesiastic; b. 9 Jan. 1908, London; s. of James Bruce and Alice Maud Patterson; ed. St. Paul's School and St. Catharine's Coll., Cambridge; Deacon 1931, Priest 1932; London curacy 1931-34; Missionary, Nigeria 1934-69; Asst. Bishop 1942-45, Bishop in the Niger 1945-69, Archbishop of West Africa 1961-69; Rep. for Archbishops of Canterbury and York for Community Relations 1970-72; Hon. Asst. Bishop of London 1970-76. *Address:* 6 High Park Road, Kew, Richmond, Surrey, TW9 4BH, England. *Telephone:* 01-876 4354.

PATTERSON, Ellmore Clark, B.S.; American banker; b. 29 Nov. 1913, Western Springs, Ill.; s. of Ellmore Clark Patterson and Harriet Emma (Wales) Patterson; m. Anne Hyde Choate 1940; five s.; ed. Lyons Township High School, Lake Forest Acad. and Univ. of Chicago; with J. P. Morgan & Co. 1935-41, 1946-59 (Vice-Pres. 1951-59); following merger of J. P. Morgan & Co. and Guaranty Trust Co., became Exec. Vice-Pres. Morgan Guaranty Trust Co. of New York 1959-65. Dir. and Vice-Chair. of Board 1965-67, Chair. Exec. Cttee. 1967-68, 1977-78, Pres. 1969-71, Chair. 1971-77, Dir. Schlumberger 1977-, Fed. Reserve Bank of New York. *Address:* 23 Wall Street, New York, N.Y. 10015 (Office); Hook Road, Bedford Village, New York 10506, U.S.A. (Home). *Telephone:* (212) 483-2323.

PATTERSON, Gardner, M.A., PH.D.; American economist; b. 13 May 1916, Burt, Ia.; s. of Charles W. and Trella Gardner Patterson; m. Evelyn R. Roelofs 1942; one d.; ed. Univ. of Michigan and Harvard Univ. U.S. Treasury Rep. Africa and Middle East 1941-44; U.S. Navy 1944-46; U.S. mem. Greek Currency Cttee., Athens 1946-48; Asst. Prof. of Econs. Univ. of Michigan 1948-49; Prof. of Econs. and Dir. of Int. Finance Section, Princeton Univ. 1949-57; Prof. of Econs. and Dir. of Woodrow Wilson School of Public and Int. Affairs, Princeton Univ. 1957-64, Prof. of Econs. and Acting Chair. Dept. of Econs. 1965-66; Asst. Dir.-Gen. GATT 1966-67, 1969-73, Deputy Dir. Gen. 1973-; Prof. of Econs 1968-71; Econ. Adviser, U.S. Embassy, Israel 1953-54, U.S. Embassy, Ankara 1955-56; Head, U.S. Econ. Survey Mission to Tunisia 1961; Ford Foundation Research Fellow, Geneva 1963-64; Dir. Foreign Bondholders Protective Council (U.S.A.) 1963-64, 1968-69. *Publications:* Survey of United States International Finance 1949-54 1950-55, Discrimination in International Trade, The Policy Issues 1966. *Address:* General Agreement on Tariffs and Trade, CH-1211, Geneva 10, Switzerland.

PATTERSON, George Vaughan, B.E.E.; American engineering executive; b. 30 July 1911, Cherry Valley, Ohio; s. of William Clinton and Anna Black Patterson; m. Margaret Helen Jones 1938; two d.; ed. Ohio State Univ., Harvard Univ. Advanced Man. School. Asst. Gen. Man. Ohio Power Co. 1954-60; American Electric Power Service Corpn. 1961, Vice-Pres. 1961, Exec. Vice-Pres. 1967, Pres., Chief Operating Officer 1972-77; Dir. American Electric Power Co. Inc. 1966-, Pres. 1972-77. *Leisure interests:* golf, sailing, gardening. *Address:* c/o American Electric Power Service Corporation, Two Broadway, New York, N.Y. 10004 (Office); 22 Hillside Terrace, Summit, N.J. 07901, U.S.A. (Home). *Telephone:* (212) 422-4800 (Office); (201) 464-5388 (Home).

PATTERSON, Herbert Parsons, B.S.; American business executive; b. 3 Sept. 1925, New York; ed. Groton School and Yale Univ.; U.S. Navy 1944-46; joined Chase Nat. Bank (now Chase Manhattan Bank, N.A.) 1949, Asst. Man. 1953 (title changed to Asst. Treas. 1955), Second Vice-Pres 1956, Vice-Pres. 1959, Senior Vice-Pres. 1962, Exec. Vice-Pres. 1965, Pres. and Chief Admin. Officer 1969-72; Consultant Marshalsed Assocs. Inc. 1973-77; Pres. Stonover Co. 1977-; mem. Board of Dirs. and Exec. Cttee. American Machine and Foundry Co.; Trustee Brookings Inst., Community Service Soc., mem. Board of Dirs. Standard Oil Co. (Indiana), Nat. Industrial Conf. Board; mem. Council on Foreign Relations, Trustees Cttee. New York Community Trust, New York Chamber of Commerce. *Address:* 450 Park Avenue, New York, N.Y. 10022 (Office); 550 Park Avenue, New York, N.Y. 10021, U.S.A. (Home).

PATTERSON, Rex Alan, PH.D.; Australian politician; b. 8 Jan. 1927, Bundaberg, Queensland; ed. Univ. of Queensland, Australian Nat. Univ., Univs. of Illinois and Chicago, U.S.A.; with Royal

Australian Air Force Feb.-Sept. 1945; mem. Research Staff, Bureau of Agricultural Econs. 1949, Deputy Dir. 1960-64; Dir. Northern Devt. Div., Dept. of Nat. Devt. until 1966; mem. House of Reps. for Dawson, Queensland 1966-75; Minister for Northern Devt. 1972-75, for the Northern Territory 1973-75, for N. Australia June-Nov. 1975; Labor Party. *Address:* c/o Parliament House, Canberra, A.C.T., Australia.

PATTINSON, John Mellor, C.B.E.; British oil executive; b. 21 April 1899, Knutsford, Cheshire; s. of James Pearson Pattinson; m. Wilhelmina Newth 1927; two s.; ed. Rugby School, Cambridge Univ. and Royal Mil. Acad., Woolwich. Royal Field Artillery 1918-19; Anglo-Iranian Oil Co., Iran 1922-45, Gen. Man. 1937-45; Man. Dir. British Petroleum Co. Ltd. 1952-65, Deputy Chair. 1960-65; Dir. other oil and chemical companies; Dir. Chartered Bank 1973-; mem. Supervisory Board Erdölchemie GmbH, Cologne. *Leisure interest:* gardening. *Address:* Oakhurst, Oakcroft Road, West Byfleet, Surrey, England. *Telephone:* Byfleet 42813.

PATTON, James George, LL.D.; American agriculturist; b. 8 Nov. 1902; ed. Western State Coll. of Colo.; Athletic Dir., Instructor in Physical Education, Colo. 1927-29; Gen. Agent Life Insurance Co. 1931; Organiser Co-operative Insurance, Colo. Farmers' Union 1932-34; Sec. Colo. Farmers' Union 1934-37, Pres. 1938-41; Dir. Nat. Farmers' Union 1937-40, Pres. 1940-66; Pres. James G. Patton & Assocs., Tucson 1966-69; Pres. United World Federalists 1967-69; fmr. Pres. Nat. Farmers' Union Life Insurance Co., Nat. Farmers' Union Service Corpn., Nat. Farmers' Union Auto Property and Casualty Co.; mem. Econ. Stabilisation Board 1942-43; mem. Nat. Labour Man. Policy Comm.; fmr. mem. Advisory Board War Mobilisation and Reconversion Admin.; mem. Nat. Advisory Board Agricultural Marketing 1946-53; U.S. Consultant, UN Conf., San Francisco 1945, U.S. Adviser, FAO Confs., Quebec 1945, Copenhagen 1946, Geneva 1947, Washington 1948; Del. Int. Fed. Agricultural Producers 1946- (Vice-Pres. 1955-58, Pres. 1958-61); Observer, World Food Conference, Rome 1974. *Address:* 150 Alma Street, 201 Menlo Park, Calif. 44025, U.S.A.

PATTON, Thomas F., J.D.; American executive; b. 6 Dec. 1903, Cleveland, Ohio; s. of John T. and Anna Navin Patton; m. Arline Everitt 1928; two d.; ed. Ohio State Univ.; admitted to Ohio Bar 1926; mem. law firm Andrews & Belden 1926-32, partner in succeeding firm Belden, Young & Veach 1932-36; Gen. Counsel, Republic Steel Corpn. 1936-44, Vice-Pres. and Gen. Counsel 1944-53, Dir. 1943-76, Asst. Pres., 1st Vice-Pres. 1953-56, Pres. 1956-58, Chief Exec. Officer 1960-71, Chair. 1963-71, Hon. Chair. of Board 1971-76; Trustee in Reorganization, Erie Lackawanna Railway Co. 1972-; Chair. of Board, Chief Exec. Officer, American Iron and Steel Inst. 1962-65, Dir. 1961-71; Dir. Int. Iron and Steel Inst. 1967-71, mem. Exec. Cttee. 1969-71; mem. Business Council; trustee numerous charitable, civic and business asscns. *Leisure interests:* golf, hunting, spectator sports. *Address:* 912 Midland Building, 101 Prospect Avenue, N.W., Cleveland, Ohio 44115 (Office); 2711 Landon Road, Shaker Heights, Cleveland, Ohio 44122, U.S.A. (Home). *Telephone:* (216) 574-7196 (Office).

PÁTZAY, Pál; Hungarian sculptor; b. 17 Sept. 1896, Kapuvar; s. of József Pátzay and Ilona Szvetelsky; m. Herta Fuchs 1945; one s.; ed. Budapest and Collegium Hungaricum, Rome; Prof. Budapest Coll. of Fine Arts; early work tends towards Expressionism, becoming more classical in later periods; Franz Joseph Award of Distinction, Budapest, Kossuth Prize 1950, 1965; Eminent Artist of Hungarian People's Repub., Banner Order, 2nd degree, of the Hungarian People's Repub. 1970; Laurel-adorned Banner Order of the Hungarian People's Repub. 1976. *Works include:* Boy Carrying Fruit 1915, Veiled Female Head 1916, Grief, Wind on the Danube, Female Combing Hair, Hussar Monument at Székesfehérvár and esquestrian statue of Hunyadi at Pécs. *Leisure interests:* reading, conversation. *Address:* H-1026 Budapest II, Gábor Áron-u. 16, Hungary. *Telephone:* 364-820.

PAUK, György; British violinist; b. 26 Oct. 1936, Budapest, Hungary; m. Susan Mautner 1959; one s. one d.; ed. Franz Liszt Acad. of Music, Budapest under Zathureczky, Leo Weiner and Zoltán Kodály; concerts all over East Europe 1952-58, and over the rest of the world; settled in Western Europe 1958, Holland 1958-61, England 1961-; has recorded numerous concertos and the complete violin/piano music of Mozart and Schubert; Paganini Prize 1956, Sonata Competition Prize, Munich 1957, Jacques Thibaud Prize 1959. *Leisure interests:* football, tennis, theatre, reading, swimming, my family. *Address:* 27 Armitage Road, London, N.W.11, England. *Telephone:* 01-455 5042.

PAUL, Sir John Warburton, G.C.M.G., O.B.E., M.C., M.A., K.ST.J.; British overseas administrator; b. 29 March 1916, Weymouth; s. of W. G. Paul and Elizabeth Bull; m. Kathleen Audrey Weeden 1946; three d.; ed. Weymouth Coll., and Selwyn Coll., Cambridge; Royal Tank Regt. 1937-45; Colonial Service, Sierra Leone 1945-62, called to the Bar (Inner Temple) 1947; Dist. Commr. 1952-56; Perm. Sec. 1956-59; Prov. Commr. 1959-60; Sec. to the Cabinet 1960-62; Gov. of The Gambia 1962-65, Gov.-Gen. 1965-66; Gov. of British Honduras 1966-72; Gov. of the Bahamas 1972-73, Gov.-Gen. July-Oct. 1973; Lieut.-Gov. Isle of Man Dec. 1973-. *Leisure interest:* painting. *Address:* Government House, Isle of Man; Sherrens Mead, Sherfield-on-Loddon, Hants, England.

PAULA COUTO, Carlos de; Brazilian geologist; b. 30 Aug. 1910, Porto Alegre; s. of Tito Paula Couto and Julieta Silva Couto; m. Zilah de Paula Couto 1938; two s.; ed. Colégio Militar de Porto Alegre; in Brazilian Treasury Dept. 1936-44; Researcher in Geology and Palaeontology, Museu Nacional, Rio de Janeiro 1944-60, geologist 1960-, Dir. Dept. of Geology 1960-66; Chief Researcher, Nat. Research Council, Brazil; Prof. Univ. Federal do Rio de Janeiro; mem. Acad. Brasileira de Ciências, Soc. Brasileira de Geologia, Soc. Brasileira de Palaeontologia, Soc. Paleontológica Argentina; Corresp. mem. Acad. Colombiana de Ciencias Exactas, Físicas y Naturales, Soc. of Vertebrate Palaeontology (U.S.A.); mem. Editorial Board Evolution 1953-55; Fellow, John Simon Guggenheim Memorial Foundation, New York 1950-52, 1968; Lecturer in numerous univs. and colls.; Prize and José Bonifácio de Andrada e Silva Gold Medal, Soc. de Brasileira de Geologia 1964. *Publications:* Paleontologia Brasileira (Mamiferos) 1953, and over 170 papers on verebrate palaeontology and geology. *Leisure interests:* music, silent films, history. *Address:* Museu Nacional, Quinta de Bôa Vista, Rio de Janeiro, RJ, Brazil. *Telephone:* 2-287010.

PAULEY, Edwin W., M.S.; American industrialist; b. 7 Jan. 1903; ed. Georgia Mil. Acad. and Univ. of Calif.; Pres. Independent Petroleum Assn. 1934-38; Special Rep. of California Govt. on Natural Resources Comm. 1939 and Interstate Oil and Compact Comm. 1940; Organiser of State of Calif. Defence Council 1941; Treasurer, Sec. Dem. Nat. Cttee. 1941-43; Petroleum Co-ordinator for European War on Petroleum Lend-Lease Supplies for Russia and the U.K. 1941; U.S. Industrial and Commercial Adviser Potsdam Conference; U.S. Rep. on Allied Comm. on Reparations (with rank of Ambassador) 1945-46; Special Adviser on Reparations to Sec. of State 1947-48; Special Asst. Sec. of Army 1947; Regent, Univ. of Calif. since 1939, Founder, Petrol Corpn., Los Angeles; Int. Independent Oil Producer (U.S.A., Mexico); Chair. of Board Pauley Petroleum Inc. *Address:* 10,000 Santa Monica Boulevard, Los Angeles 90067, Calif. (Office); 9521 Sunset Boulevard, Beverly Hills, Calif. 90046 U.S.A. (Home).

PAULINELLI, Allysson; Brazilian agronomist; b. 1936, Minas Gerais; Lecturer, later Dir. Agricultural High Inst., Minas Gerais; Sec. of Agric., Minas Gerais 1971; Minster of Agric. March 1974-. *Address:* Ministério da Agricultura, Esplanada dos Ministérios, Bloco 8, Brasília, D.F., Brazil.

PAULING, Linus Carl, PH.D., SC.D., L.H.D., U.J.D., D.H.C.; American university professor; b. 28 Feb. 1901; ed. Oregon State Coll., Calif. Inst. of Technology and Univs. of Munich, Copenhagen and Zürich; full-time Asst. in Quantitative Analysis, Oregon State Coll. 1919-20; part-time Asst. Chem., Mechanics and Materials, Oregon State Coll. 1920-22; Graduate Asst., Calif. Inst. of Tech. 1922-23, Teaching Fellow 1923-25, Research Assoc. 1925-26, Nat. Research Fellow, Chem. 1925-26; Fellow, John Simon Guggenheim Memorial Foundation 1926-27; Asst. Prof. of Chem., Calif. Inst. of Tech. 1927-29, Assoc. Prof. 1929-31, Prof. 1931-64; Prof. of Chem., Univ. of Calif., at San Diego 1967-69, Stanford Univ. 1969-74, Prof. Emer. 1974-; Pres. Linus Pauling Inst. of Science and Medicine 1973-75, Prof. 1975-; Chair. Div. of Chem. and Chemical Eng., Calif. Inst. of Tech., Dir. of the Gates and Crellin Laboratories 1936-58; George Fisher Baker Lecturer in Chem., Cornell Univ. 1937-38; Eastman Prof. Oxford Univ. 1948; Research Prof. Center for Study of Dem. Insts. 1963-67; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Deutsche Akad. der Naturforscher Leopoldina; hon. mem. or Fellow Chemical Soc. of London, Acad. of Sciences of Liège, Royal Inst., Swiss Chemical Soc.; Chemical Soc. of Japan, Nat. Inst. Sciences India, Royal Norwegian Scientific Soc., Trondheim; foreign mem. Royal Soc., Norwegian Acad. Science and Letters; Acad. of Sciences U.S.S.R.; corresp. foreign mem. Accad. delle Scienze, Lisbon Acad. Science; Foreign Assoc. Acad. des Sciences (France); Hon. Fellow, Indian Acad. Sciences, Austrian Acad. of Science, European Soc. of Haematology, etc.; hon. degrees from numerous univs., awards include: Langmuir Prize 1931, William H. Nichols Medal 1941, Willard Gibbs Medal 1946, Theodore William Richards Medal 1947, Davy Medal 1947, Medal for Merit 1948, Gilbert Newton Lewis Medal 1951, Nobel Prize for Chem. 1954, for Peace 1962, Thomas Addis Medal 1955, John Phillips Memorial Award, Avogadro Medal 1956, Pierre Fermat Medal, Paul Sabatier Medal

1957 Lenin Prize 1970, Martin Luther King, Jr. Medical Award 1972, U.S. Nat. Medal of Science 1974, Lomonosov Gold Medal 1978. *Publications:* The Structure of Line Spectra (with S. Goudsmit) 1930, Introduction to Quantum Mechanics, with Applications to Chemistry (with E. Bright Wilson, Jr.) 1935, The Nature of the Chemical Bond 1939 (2nd edn. 1940, 3rd edn. 1960), General Chemistry 1947 (2nd edn. 1953), College Chemistry 1950 (3rd edn. 1964), No More War! 1958, 1962, The Architecture of Molecules (with R. Hayward) 1965, The Chemical Bond 1967, Vitamin C and the Common Cold 1971, Vitamin C, the Common Cold, and the Flu. *Address:* Linus Pauling Institute of Science and Medicine, 2700 Sand Hill Road, Menlo Park, Calif. 94025; Salmon Creek, Big Sur, Calif. 93920, U.S.A.

PAULS, Dr. Rolf Friedemann; German diplomatist; b. 26 Aug. 1915, Eckartsberga; s. of Bodo Pauls and Alma Pauls (née Wilkens); m. Lilo Serlo 1951; three s.; ed. Naumburg Domgymnasium and Universität Hamburg; Maj. in German Army 1936-45; Sec. to Parl. Council, Bonn 1948-49; Foreign Service 1950-; Personal Asst. to Sec. of State for Foreign Affairs (Prof. Hallstein) 1952-55; Counsellor for Political Affairs, Washington 1956-60; Counsellor and Deputy Amb., Athens 1960-63; Deputy Dir.-Gen. of Dept. for Econ. Affairs, Foreign Office, Bonn 1963-65; Amb. to Israel 1965-68, to U.S.A. 1969-73, to People's Repub. of China 1973-76; Amb. and Perm. Rep. of the Fed. Repub. of Germany to NATO 1976-. *Leisure interests:* reading, riding. *Address:* c/o Department of Foreign Affairs, Bonn, Federal Republic of Germany.

PAULSSEN, Hans Constantin, DR. IUR.; German business executive; b. 1892, Weimar; s. of Dr. Arnold Paulssen; m. Hertha Binswanger 1914 (died 1966); one s. (deceased) two d. (one deceased); ed. Univs. of Freiburg, Munich and Jena; Chair. of Board Martinswerk GmbH, Bergheim, Aluminium-Hütte Rheinfelden GmbH, Aluminium-Walzwerke Singen GmbH, Singen, Alluminium-Giesserei Villingen GmbH, Villingen, Gothaer Feuerversicherung AG, Cologne, Gothaer Transport-u. Rückversicherungs AG, Cologne, Gothaer Lebensversicherung AG, Göttingen; Hon. Senator, Univ. of Freiburg; Hon. Pres. Fed. of German Employers Asscns., Cologne; Pres. Chamber of Industry and Commerce, Constance, Rheinschiffahrtsverband Konstanz e.V., Constance, Board of Trustees Ifo-Institut für Wirtschaftsforschung, Munich; mem. many other Boards, Councils, etc.; retd. from all Boards 1970; Grosses Bundesverdienstkreuz. *Address:* D 7750 Constance, Hebelstrasse 4, Federal Republic of Germany. *Telephone:* Constance 55959.

PAUPINI, H.E. Cardinal Giuseppe; Italian ecclesiastic; b. 25 Feb. 1907, Mondavio, Fano; ordained 1930; Titular Archbishop of Sebastopolis in Abasgia 1956; Apostolic Nuncio in Colombia 1959; cr. Cardinal 1969; Major Penitentiary 1973-. *Address:* Palazzo Altemps, Via di S. Apollinare 8, 00186 Rome, Italy. *Telephone:* 56-25-05.

PAVAROTTI, Luciano, D.MUS.; Italian singer; b. 12 Oct. 1935, Modena; s. of Fernando and Adele (Venturi) Pavarotti; m. Adua Veroni 1969; three d.; ed. Istituto Magistrale; tenor range; début in La Bohème at Reggio Emilia 1961, Staatsoper Vienna 1963; La Scala tour of Europe 1963-64, début Covent Garden 1965, Metropolitan Opera House, New York 1968; about 30 albums 1964-79; appearing in Tosca at Metropolitan Opera House 1979; Commdr. Italian Repub., Noce d'Oro Nat. Prize, Luigi Illica int. prize, first prize Gold Orfeo (Acad. du Disque Lyrique de France), many other prizes. *Leisure interests:* tennis, painting. *Address:* Via Lombroso 12, 41100 Modena, Italy. *Telephone:* (059) 351081.

PAVITT, Edward, M.C., B.SC.(ENG.); South African mining engineer and executive; b. 14 July 1918, Vryburg, N. Cape; s. of Edward P. R. and Gertrude Pavitt (née Hornby); m. Elizabeth Saunders 1942; three d.; ed. Kingswood Coll., Grahamstown and Witwatersrand Univ., Johannesburg; active Mil. service 1939-45, Maj. 11th Field Cos., S.A. Eng. Corps 1944-45; Mining Engineer, Union Corpn. Ltd. 1946-62, Gen. Man. Leslie Gold Mines Ltd. 1962-64, Consulting Eng. 1964-67, Chief Consulting Eng. 1967-69, Dir. Union Corpn. Ltd. 1969-71, Asst. Man. Dir. 1971-72, Man. Dir. 1972-, Chair. 1974-; Chair. St. Helena Gold Mines Ltd., Unisel Gold Mines Ltd., UC Investments Ltd. 1973, Sappi Ltd.; Commr. Electricity Supply Comm.; Dir. many mining, industrial and banking cos. *Address:* Union Corporation Limited, Union Corporation Building, 74/78 Marshall Street, Johannesburg 2001 (Office); 31 Fricker Road, Illovo, Johannesburg 2196, South Africa (Home). *Telephone:* 838-8281 (Office); 42-7636 (Home).

PAVLOV, Aleksandr Sergeyevich; Soviet radiologist and oncologist; b. 23 June 1920, Moscow; m.; one d.; ed. Moscow Univ. and Central Inst. for Postgraduate Training; successively Asst. Prof., Assoc. Prof., Prof. and Chief, Dept. of Clinical Radiology, Cen. Inst. of Postgraduate Training, Moscow; now Dir. Herzen Cancer Research Inst. Moscow; Asst. Dir.-Gen. WHO 1971-76; consultant to IAEA, Vienna; fmr. Pres. All Russian Scientific Soc. of Oncology, Moscow Soc. of Oncology; mem. U.S.S.R. Acad. of Medical Sciences. *Publications:* more than 100 scientific papers and textbooks in the field of oncology and radiotherapy. *Address:* c/o Ministry of Health, Rahmanovskij per. 3, Moscow, U.S.S.R.

PAVLOV, Sergey Pavlovich; Soviet politician; b. 19 Jan. 1929; ed. Technical Inst., and Moscow Inst. of Physical Culture; Komsomol work 1952-56; mem. CPSU 1954-; Sec., Second Sec., First Sec., Moscow City Cttee., Komsomol 1956-58; Sec. Central Cttee. Komsomol 1958-59, First Sec. 1959-68; Chair. Cen. Council of Sports Socs. June 1968, U.S.S.R. Cttee. for Sports and Physical Culture 1968-; mem. Central Cttee. CPSU 1961-71; mem. CPSU Cen. Auditing Comm. 1971-; Deputy to U.S.S.R. Supreme Soviet 1962-70; received several decorations. *Address:* U.S.S.R. Committee for Sports and Physical Culture, 4 Skatertny pereulok, Moscow, U.S.S.R.

PAVLOV, Vladimir Yakovlevich; Soviet politician and diplomatist; b. 26 Oct. 1923; ed. Moscow Railway Engineering Inst.; Mem. CPSU 1948-, mem. Cen. Cttee. 1966-; railway engineer 1941-49; party and Komsomol work 1949-56; First Sec. Moscow District Cttee., CPSU 1956-62; Sec. Moscow City, CPSU 1962-65, Second Sec. 1965-71; Amb. to Hungary 1971-; Deputy to U.S.S.R. Supreme Soviet 1966-; Vice-Chair. Comm. for Transport and Communications of U.S.S.R.; mem. Cen. Cttee. of CPSU; Order of October Revolution, and other decorations. *Address:* Soviet Embassy, Budapest, Hungary.

PAVLOVSKY, Gen. Ivan Grigoriyevich; Soviet army officer and government official; b. 24 Feb. 1909, Ternovka village, Kamenets-Podolsk Region; ed. Agricultural Technical School and Military Acad. of General Staff; Agronomist 1929-31; in Soviet Army 1931-; Commdr. of Platoon, Co., Battn., Regt. 1932-42; fought in Southern, Transcaucasian and Byelorussian Fronts in Second World War; Commdr. of Rifles Brigade and Div. 1943-52; Corps Commdr. 1952-55; Army Commdr. and First Deputy C.-in-C. Area Mil. Commdr. 1961-67; Deputy Minister of Defence C.-in-C. of Land Forces and Army Gen. 1967-; mem. CPSU 1939-, Cen. Auditing Comm. of CPSU 1966-71, mem. CPSU Cen. Cttee. 1971-; Deputy to U.S.S.R. Supreme Soviet 1962-; mem. Foreign Affairs Comm. Soviet of Nationalities; Hero of Soviet Union, Gold Star, Red Star, Orders of Lenin (twice), of Red Banner (five times), of Suvorov, 2nd Class and other Soviet and foreign awards. *Address:* Ministry of Defence, Naberezhnaya M. Thoreza 34, Moscow, U.S.S.R.

PAWEŁKIEWICZ, Jerzy, D.SC.; Polish biochemist; b. 16 Oct. 1922, Częstochowa; ed. Poznań Univ.; Doctor 1951-54, Docent 1954-60, Assoc. Prof. 1960-67, Prof. 1967-; Corresp. mem. Polish Acad. of Sciences 1967-77, mem. 1977-; mem. Biochemical and Biophysical Cttee. 1969-, now also mem. Scientific Councils of Inst. of Biochem. and Biophysics and of Dept. of Dendrology, Chair. Scientific Council of Plant Genetics Dept.; Head of Biochem. Inst., Poznań Acad. of Agric. 1972-; mem. Polish Biochemical Soc.; worked on Vitamin B12 and biosynthesis of albumin; Gold Cross of Merit 1959, Medal of 10th Anniversary of People's Poland 1955, State Prize, 1st Class 1974, Minister of Science, Technics and Higher Educ. Prize 1975, Chevalier's Cross of Order of Polonia Restituta. *Publications:* Fizyko-chemiczne metody w analizie żywnościowej (Physico-Chemical Methods in Food Analysis) 1954, co-author Chromatografia 1957; numerous articles in Polish and other languages. *Address:* Ul. Kniewskiego 1 m. 7, 60/743 Poznań, Poland.

PAYNE, Rev. Ernest Alexander, C.H., D.D., LL.D.; British minister of religion; b. 19 Feb. 1902, London; s. of Alexander William Payne, F.C.A.; m. Winifred Mary Davies 1930; one d.; ed. King's Coll., London, Regent's Park Coll., London, Mansfield Coll., Oxford, and Marburg Univ., Germany. Pastor Bugbrooke Baptist Church, Northampton 1928-32; Baptist Missionary Soc. 1932-40; Senior Tutor, Regent's Park Coll., Oxford 1940-51, Lecturer in Comparative Religion and History of Modern Missions, Oxford Univ. 1946-51; Gen. Sec. Baptist Union of Great Britain and Ireland 1951-67; Vice-Chair. Cen. Cttee, World Council of Churches 1954-68, Pres. World Council of Churches 1968-75; mem. Free Church Fed. Council, Moderator 1958-59; Vice-Pres. British Council of Churches 1960-62, Chair. Exec. Cttee. 1962-71, Hon. Pres. 1978; Vice-Pres. Baptist World Alliance. *Publications:* The Saktas 1933, The Free Church Tradition in the Life of England 1944, H. Wheeler Robinson: A Memoir 1946, The Baptists of Berkshire 1951, The Fellowship of Believers 1944, 1952, James Henry Rushbrooke—A Baptist Greatheart 1954, The Growth of the World Church 1955, The Baptist Union—A Short History 1959, Free Churchmen—Unrepentant and Repentant 1965, Out of Great

Tribulation—Baptists in the U.S.S.R. 1974. *Leisure interests:* reading, travel. *Address:* Flat 9, Murray Court, 80 Banbury Road, Oxford, England. *Telephone:* 0865-55729.

PAYNE, John Anson, O.B.E., M.A., F.B.I.M.; British business executive; b. 19 May 1917, London, s. of late Maj. R. L. Payne and L. M. Duncan; m. Deidre Kelly 1949; one s. one d.; ed. St. Lawrence Coll., Ramsgate, Trinity Hall, Cambridge; entered Civil Service 1939; served R.A.F., rank of Wing Commdr. 1940-45; with Ministry of Agric. 1945; Private Sec. to Minister 1947-51, Asst. Sec. 1951, Under-Sec. 1960-68; joined FMC Ltd 1968, Chair. 1974-75. *Address:* Sandpit Cottage, 4 High Street, Ditchling, Sussex, BN6 8TA, England (Home). *Telephone:* Hassocks 2310.

PAYNE, Sir Robert Frederick, Kt.; British solicitor; b. 22 Jan. 1908, Hull; s. of Frederick C. and Edith C. (née Carlton) Payne; m. 2nd Maureen R. Walsh 1951; two s. one d.; ed. Hymers Coll., Hull; served R.A.F. 1940-44; Founder mem. British Acad. of Forensic Sciences 1959; Pres. The Law Soc. of England and Wales 1969-70; Chair. Mental Hospital Cttee. of Inquiry 1971-72; mem. Erroll Cttee. on Liquor Licensing 1971-72. *Leisure interests:* music and golf. *Address:* High Woodgates, N. Ferriby, Humberside, England. *Telephone:* 0482-631533.

PAYNTER, William; British trade unionist; b. 6 Dec. 1903; ed. elementary schools; Exec., South Wales Miners' Fed. 1936, South Wales Agent 1939, South Wales Pres. 1951; Nat. Sec., Nat. Union of Mineworkers 1959-68; mem. Gen. Council TUC 1960-61; Communist 1929-68; Comm. on Industrial Relations 1969; mem. TUC/CBI Conciliation and Arbitration Service 1972-73; mem. Advisory Conciliation and Arbitration Service 1973-. *Publications:* British Trade Unions and Problems of Change 1970, My Generation (autobiographical) 1972. *Address:* 32 Glengall Road, Edgware, Middlesex, England.

PAZ, Octavio; Mexican writer and diplomatist; b. 31 March 1914; ed. Univ. of Mexico; Founder, Dir. or editor several Mexican literary reviews, including Barandal 1931, Taller 1939, El Hijo Pródigo 1943; Guggenheim Fellowship (U.S.A.) 1944; fmr. Sec. Mexican Embassy, Paris; Chargé d'affaires a.i., to Japan 1951; posted to Secr. for External Affairs; Amb. to India 1962-68; Simón Bolívar Prof. of Latin-American Studies and Fellow, Churchill Coll., Cambridge 1970-71; Charles Eliot Norton Prof. of Poetry, Harvard Univ. 1971-72; Hon. mem. American Acad. of Arts and Letters 1972; Int. Poetry Grand Prix 1963, Jerusalem Prize 1977, Grand Golden Eagle of The Int. Festival, Paris 1979. *Publications:* Poetry: Luna Silvestre 1933; Raíz del Hombre 1937, Entre la Piedra y la Flor 1940, A la Orilla del Mundo 1942, Libertad bajo Palabra 1949, Piedra de Sol 1957, La Estación Violenta 1958, Ladera este 1970; prose: El Laberinto de la Soledad 1950 (Labyrinth of Solitude 1961), Aguila o Solé 1951, El Arco y la Lira 1956, Las Peras del Olmo 1957, Conjunciones y disyunciones (essays) 1970, Posdata 1971, Claude Lévi-Strauss: An Introduction 1972, Alternating Current (essays) 1973, The Siren and the Seashell 1976, etc. *Address:* Harvard University, Cambridge, Mass., U.S.A.

PAZ ESTENSSORO, Victor; Bolivian politician; b. 2 Oct. 1907; s. of Domingo Paz Rojas and Carlos Estenssoro de Paz; m. 1st Carmela Cerruto Calderón 1936, one s. one d.; m. 2nd Teresa Cortéz Velasco, three d.; ed. Univ. Mayor de San Andrés; Finance official 1932-33; Deputy Tarija 1938-39 and 1940-41; Pres. Banco Minero 1939; Prof. Econ. History, Univ. of La Paz 1939-41; Minister of Finance 1941-44; Leader of Movimento Nacional Revolucionario; Pres. of Republic 1952-56, 1960-64; Amb. to the U.K. 1956-59; Prof. Econ. Devt. Theory, Planning Inst. Nat. Eng. Univ. de Lima 1966–. *Publications:* Esquema de la Organización Política y Administrativa de Bolivia, Aspecto de la Economia Boliviana, Revolución y Contrarrevolución, Proceso y Sentencia de la Oligarquía Boliviana, La Revolucion Boliviana, Discursos Parlamentarios, Discursos y Mensajes, Contra la Restauración por la Revolución Nacional, La Obra, Maestra de los Restauradores, El Imperativo Nacional, Presencia de la Revolución Nacional. *Leisure interest:* photography. *Address:* Universidad Nacional de Ingeniería, Casilla 1301, Lima, Peru.

PAZHWAK, Abdurrahman; Afghan diplomatist; b. 7 March 1919, Ghazni; has been successively mem. Historical Section of Afghan Acad.; Dir. Foreign Publs. Section of Afghan Press Dept.; Ed. daily Islah and acting Dir. Gen. of Bakhtar News Agency; Pres. Pashto-Tolana (Afghan Acad. of Lit.); Dir.-Gen. Publs. Section, Afghan Press Dept.; Sec. and Press and Cultural Attaché, Afghan Embassy, London; mem. of Section of Information Dept. of ILO; Press and Cultural Attaché, Afghan Embassy, Washington; Dir. Section for East Asia and Dir. a.i., Section for UN and Int. Confs., Afghan Ministry for Foreign Affairs; Dir.-Gen. Political Affairs in Ministry of Foreign Affairs 1956; Perm. Rep. to UN 1958-73; Amb. to Fed. Repub. of Germany 1973, to India 1973-77, to U.K. March 1977-; Pres. UN Human Rights Comm. 1963, 21st Session of UN Gen. Assembly 1966; Special Envoy of Afghanistan to the Fourth Summit of Non-Aligned Countries, Algiers 1973; Special Envoy to the Summit Conf. of Islamic Countries, Lahore 1974; Special Envoy to the Pres. of Bangladesh. *Publications:* Aryana or Ancient Afghanistan, Pakhtunistan (both in English), Tales of the People 1958 (in Persian), and many other works.

PEACOCK, Alan Turner, D.S.C., M.A.; British economist; b. 26 June 1922, Ryton-on-Tyne; s. of Alexander D. and Clara M. Peacock; m. Margaret Martha Astell-Burt 1944; two s. one d.; ed. Dundee High School, Univ. of St. Andrews; Lecturer in Econs., Univ. of St. Andrews 1947-48; Lecturer in Econs., London School of Econs. 1948-51, Reader in Public Finance 1951-56; Prof. of Econ. Science, Univ. of Edinburgh 1956-62; Prof. of Econs., Univ. of York 1962-78; Prof. of Econs. and Prin.-Elect Univ. of Buckingham 1978-; Chief Econ. Adviser, Dept. of Trade and Industry 1973-76; Pres. Int. Inst. of Public Finance 1966-69, Hon. Pres. 1975-; mem. Royal Comm. on Constitution 1970-73, Social Science Research Council 1971-72; mem. Council, Inst. of Econ. Affairs, Council, London Philharmonic Orchestra; Chair. Arts Council Enquiry into Orchestral Resources 1969-70; mem. Board of Dirs. English Music Theatre Ltd. 1975-77; mem. Council of Man., Nat. Inst. of Econ. and Social Research 77-; non-exec. Dir. Economist Intelligence Unit 1977-; Dr. h.c. (Univ. of Stirling) 1974. *Publications:* Economics of National Insurance 1952, Growth of Public Expenditure in United Kingdom (with J. Wiseman) 1961, Economic Theory of Fiscal Policy (with G. K. Shaw) 1971, The Composer in the Market Place (with R. Weir) 1975, Welfare Economics: A Liberal Reinterpretation (with Charles Rowley), The Credibility of Liberal Economics 1977, and numerous articles in professional journals on economics, public finance, social policy. *Leisure interest:* music. *Address:* University College at Buckingham, Buckingham, MK18 1EG, England. *Telephone:* Buckingham 4161.

PEACOCK, Hon. Andrew Sharp, LL.B., M.P.; Australian politician; b. 13 Feb. 1939, Melbourne; s. of the late A. S. Peacock and Iris Peacock; m.; three d.; ed. Scotch Coll., Univ. of Melbourne; Pres., Victorian Liberal Party 1965-66; mem. House of Reps. for Kooyong, Vic. 1966-; fmr. partner Rigby and Fielding, solicitors; fmr. Chair. Peacock & Smith Pty. Ltd., engineers; Minister for the Army and Minister Assisting the Prime Minister 1969-71, Assisting the Treasurer 1971-72; Minister for External Territories 1972; mem. Opposition Exec. 1973-75, Spokesman on Foreign Affairs 1973-75; Minister for Foreign Affairs Nov. 1975-, for the Environment Nov.-Dec. 1975. *Leisure interests:* horse racing, Australian Rules Football, surfing, reading. *Address:* Ministry of Foreign Affairs, Canberra, A.C.T. (Office); 30 Monomeath Avenue, Canterbury, Vic. 3126, Australia.

PEACOCK, Ronald, M.A., D.PHIL., LITT.D.; British university professor; b. 22 Nov. 1907, Leeds, Yorks.; s. of Arthur L. Peacock and Elizabeth Peacock (née Agar); m. Ilse G. E. Freiwald 1933; ed. Leeds Modern School, Univs. of Leeds, Berlin, Innsbruck and Marburg; Asst. Lecturer in German, Univ. of Leeds 1931-38, Lecturer 1938-39, Prof. 1939-45; Prof. of German Language and Literature, Univ. of Manchester 1945-62, Pro-Vice-Chancellor 1958-62; Visiting Prof. of German Literature, Cornell Univ. 1949; Visiting Prof. Univ. of Heidelberg 1960-61; Prof. German, Bedford Coll., Univ. of London 1962-75; Prof. Univ. of Freiburg 1965, 67-68; Hon.D.Litt. (Manchester); Goethe Medaille (Munich). *Publications:* The Great War in German Lyrical Poetry 1934, Das Leitmotiv bei Thomas Mann 1934, Hölderlin 1938, The Poet in the Theatre 1946, The Art of Drama 1957, Goethe's Major Plays 1959, Criticism and Personal Taste 1972, many contributions to periodicals. *Leisure interests:* music, travel. *Address:* Greenshade, Woodhill Avenue, Gerrard's Cross, Bucks., England. *Telephone:* Gerrard's Cross 84886.

PEAL, Samuel Edward, Liberian diplomatist; b. 3 Feb. 1923; ed. Central Nat. School, White Plains, and Liberia Coll.; fmr. Town Clerk, Millsburg; Foreign Service, Paris, London, Hamburg; fmr. Amb. to Netherlands, to Guinea; Amb. to U.S.A. 1961-75; numerous decorations. *Address:* c/o Ministry of Foreign Affairs, Monrovia, Liberia.

PEARCE, Baron (Life Peer), cr. 1962, of Sweethaws; **Edward Holroyd Pearce,** P.C., Kt., M.A., R.B.A.; British judge; b. 9 Feb. 1901, Sidcup, Kent; s. of John W. E. Pearce, F.S.A. and Irene Pearce; m. Erica Priestman 1927; two s.; ed. Merton Court School, Charterhouse and Corpus Christi Coll., Oxford; called to the bar 1925; Q.C. 1945; Judge of Probate, Divorce and Admiralty Court 1948; Judge of Queen's Bench Div. 1954; Lord Justice of Appeal 1957; Lord of Appeal in Ordinary 1962-69; Treasurer of Lincoln's Inn 1966; Chair.

of Press Council 1969-74; Chair. British Comm. on Rhodesian Opinion 1972; fmr. Chair. Appeals Cttee. Takeover Panel 1969-76; Ind. Chair. Press discussions on Charter of Press Freedom 1976-77; retd. 1976; Pres. Artists League of Great Britain 1950-74; Hon. Fellow, Corpus Christi Coll., Oxford 1950-. *Leisure interest:* painting. *Address:* Sweethaws, Crowborough, Sussex, England. *Telephone:* Crowborough 61520.

PEARCE, Austin William, C.B.E., D.SC., PH.D.; British business executive; b. 1 Sept. 1921, Plymouth; s. of late William T. Pearce and of Florence Pearce; m. Maglona Winifred Twinn 1947 (died 1975); three d.; ed. Devonport High School for Boys, Birmingham Univ. and Harvard Business School; joined Esso Petroleum Co. 1945, Dir. 1963-68, Man. Dir. 1968-71, Chair. Jan. 1972-, Dir. Esso Europe Inc. 1972-, Esso Africa Inc. 1972-, Esso Supply Co. Inc. 1972-; Chair. Irish Refining Co. Ltd. 1965-71, U.K. Petroleum Industry Advisory Cttee.; Pres. Inst. of Petroleum 1968-70, Pipeline Industries Guild 1973-75; Pres. Oil Industries Club 1975-76; Pres. (elect) U.K. Petroleum Industry Assn. 1979; Dir. Williams and Glyn's Bank Ltd. 1974-, Nat. and Commercial Banking Group Ltd.; mem. Advisory Council on Energy Conservation 1974-, Energy Comm., British Aerospace 1977-; mem. of Board, English-Speaking Union 1974-; mem. Comm. on Energy and the Environment. *Leisure interests:* golf, general handicrafts. *Address:* Esso House, Victoria Street, London, SW1E 5JW, England. *Telephone:* 01-834 6677.

PEARCE, Henry Jesse, A.A.S.A.(Sr.), F.A.I.M.; Australian company director; b. 19 March 1915, Waratah, N.S.W.; s. of T.R. Pearce; m. Elva R. Spencer 1940; two s. one d.; ed. Newcastle, N.S.W.; Sec., John Lysaght (Aust.) Ltd. 1959, Admin. Dir. 1964-65, Joint Man. Dir. 1965-67, Man. Dir. 1967-78; Man. Dir. Interscan Australia Pty. Ltd. Aug. 1978-. *Address:* 42 Llandilo Avenue, Strathfield, N.S.W. 2135, Australia.

PEARS, Sir Peter Neville Luart, Kt., C.B.E., F.R.C.M.; British tenor; b. 22 June 1910; ed. Lancing Coll. and Univ. of Oxford; BBC Singers 1934-37, New British Singers 1936-38; tours abroad with Benjamin Britten from 1939; Sadler's Wells Opera 1943-46; first performance of many new works by Benjamin Britten, Tippett and Berkeley; soloist at Lucerne Festival, Edinburgh Festivals, Holland Festival, and all Aldeburgh Festivals 1947-; appeared at Metropolitan Opera, N.Y. 1974, 1978-79; co-founder Aldeburgh Festival; Hon. Fellow, Keble Coll., Oxford; Hon. F.R.A.M.; Hon. D.Mus. (Cambridge, York, Sussex, Edinburgh). Important roles include Peter Grimes (Peter Grimes) 1945, 1953, Male Chorus (The Rape of Lucretia) 1946, 1951, The Evangelist (St. Matthew Passion) annually 1947-, The Captain (Billy Budd) 1951, Tamino (Magic Flute), Essex (Gloriana) 1953, Vashek (The Bartered Bride) 1955, Pandarus (Troilus and Cressida) 1956, David (Die Meistersinger) 1957, Flute (Midsummer Night's Dream) 1960, The Mad Woman (Curlew River) 1964, 1965, Nebuchadnezzar (Burning Fiery Furnace) 1966, The Tempter (Prodigal Son) 1968, 1969, Gustav Aschenbach (Death in Venice) 1973. *Publications:* (with Benjamin Britten) Purcell Edition 1948-. *Address:* c/o Mrs. Susan Phipps, 8 Halliford Street, London, N.1, England.

PEARSON, Baron (Life Peer), cr. 1965, of Minnedosa, Canada, and of the Royal Borough of Kensington; **Colin Hargreaves Pearson,** P.C., C.B.E.; British judge; b. 28 July 1899, Minnedosa, Manitoba; s. of Ernest W. and Jessie B. Pearson; m. Sophie G. H. Thomas 1931; one s. one d.; ed. St. Paul's School, London, and Balliol Coll., Oxford; called to the Bar 1924; K.C. 1949; Judge, Queen's Bench Div. 1951-61; Judge, Restrictive Practices Court 1957-61 (Pres. 1960-61); Lord Justice of Appeal 1961-65; Lord of Appeal in Ordinary 1965-74; Chair. Cttee. on Funds in Court 1958, Law Reform Cttee. 1963-73; Chair. Court of inquiry on disputes in the Electricity Supply Industry 1964, Shipping Industry 1966-67, Civil Air Transport Industry 1967-68, Steel Industry 1968, Docks Industry 1970; Chair. Royal Comm. on Civil Liability and Compensation for Personal Injury 1973-78. *Address:* 2 Crown Office Row, Temple, London, E.C.4; House of Lords, Westminster, London, S.W.1, England. *Telephone:* 01-353 5391.

PEARSON, Andrall E.; American business executive; b. 3 June 1925; s. of Andrall E. Pearson and Dorothy MacDonald; m. Joanne Pope 1951; one d.; ed. Univ. of Southern Calif. and Harvard Business School; fmr. Dir. McKinsey & Co. (int. man. consultants); Exec. Vice-Pres. PepsiCo Inc. 1969-71, Pres. 1971-, Dir. and Chief Operating Officer; mem. Board of Dirs. Warner-Lambert Co., Grocery Mfrs. of America Inc., Consumer Research Inst.; William H. Albers Award; Univ. of S. Calif. Outstanding Alumnus 1973. *Publications:* A Blueprint for Long Range Planning, An Approach to Successful Marketing Planning. *Address:* PepsiCo Inc., Purchase, N.Y. 10577, U.S.A. *Telephone:* (914) 253-3031.

PEARSON, Sir Denning (*see* Pearson, Sir James Denning).

PEARSON, Egon Sharpe, C.B.E., M.A., D.SC., F.R.S.; British statistician; b. 11 Aug. 1895, London; s. of Karl Pearson and Maria Sharpe; m. 1st Dorothy Eileen Jolly 1934 (died 1949) two d.; 2nd Margaret Theodosia Turner 1967 (died 1975); ed. Winchester and Trinity Coll., Cambridge; Lecturer Univ. Coll. 1921; Prof. of Statistics London Univ. and Head of Statistics Dept. at Univ. Coll. 1933-60, Prof. Emeritus 1960-; Man. Ed. Biometrika 1936-66, Tables Ed. 1966-75; Assoc. mem. Emer., Ordnance Board, Ministry of Defence 1943-; Pres. Royal Statistical Soc. 1955-57, Soc. Gold Medal 1955; Statistical Consultant, British Standards Inst.; Hon. fellow Inst. of Actuaries 1956. *Address:* University College, Gower Street, London, W.C.1 (Office); Pendean Home, West Lavington, Midhurst, Sussex, England (Home).

PEARSON, James B.; American lawyer and politician; b. 7 May 1920; m. Martha Mitchell 1946; three s. one d.; Local Govt. posts, Kansas City suburbs; State Senator, Kansas 1956-60; Chair. Kansas Republican Cttee. 1960-; U.S. Senator from Kansas 1962-79. *Address:* 5219 West 68th Street, Shawnee Mission, Kan. 66208, U.S.A.

PEARSON, Sir (James) Denning, Kt., J.P., B.SC.(ENG.), WH.SC., C.ENG., F.B.I.M.; British engineer and business executive; b. 8 Aug. 1908, Bootle, Lancs.; s. of James and Elizabeth (née Henderson) Pearson; m. Eluned Henry 1932; two d.; ed. Canton Secondary School and Cardiff Technical Coll.; various appointments with Rolls-Royce since 1932, Chief Exec. and Deputy Chair. Rolls-Royce Ltd., 1957-68, Chief Exec. and Chair. 1969-70; Pres. SBAC 1963-64; mem. Nat. Econ. Devt. Council 1964-66; Chair. of Govs. Derby Coll. of Tech. 1967-76; Gov. London Graduate School of Business Studies 1967-70; mem. Council, Manchester Business School, Governing Body, Admin. Staff Coll., Henley 1967-73, Council, Voluntary Service Overseas; Chair. Gamma Assocs. 1974-; Fellow, Imperial Coll. of Science and Tech.; Hon. F.R.Ae.S., Hon. F.I.MechE.; Dr. Ing. (Brunswick) and several hon. degrees and fellowships; Benjamin Franklin Medal 1970. *Address:* Green Acres, Holbrook, Derbyshire, England. *Telephone:* Derby 881137.

PEART, Baron (Life Peer), cr. 1976, of Workington in the County of Cumbria; **(Thomas) Frederick Peart,** P.C., B.SC.; British politician; b. 30 April 1914; s. of Maj. E. F. Peart; m. Sarah Elizabeth Lewis 1945; one s.; ed. Wolsingham Grammar School, Henry Smith Secondary School, Hartlepool, Bede Coll., Durham Univ. and Inner Temple; Councillor, Easington Rural Dist. Council 1937-40; Army Service, Artillery Officer, served in N. Africa and Italy 1940-45; M.P. for Workington 1945-76; Parl. Private Sec. to Minister of Agric. and Fisheries 1945-51; British Del. and Rep. Agric. Cttee., Vice-Pres., Cttee. for Culture and Science, Council of Europe; Chair. Council of Europe's Special Cttee. dealing with Agricultural Refugees 1954; Minister of Agric. Fisheries and Food 1964-68; Lord Privy Seal and Leader of House of Commons April-Oct. 1968; Lord Pres. of the Council and Leader of the House of Commons 1968-70; Opposition spokesman for Agric., Fisheries and Food 1970-72, for Defence 1972-74; Leader of Labour Del. to the Council of Europe and Western European Assembly 1973-74; Vice-Pres. Council of Europe 1973-74; Minister of Agric., Fisheries and Food 1974-76; Lord Privy Seal and Leader of the House of Lords 1976-79; Labour. *Address:* House of Lords, London, SW1A 0PW, England.

PEART, William Stanley, M.B., B.S., M.D., F.R.C.P., F.R.S.; British professor of medicine; b. 31 March 1922, South Shields; s. of J. G. and M. Peart; m. Peggy Parkes 1947; one s. one d.; ed. King's Coll. School, Wimbledon, and St. Mary's Hospital Medical School, London; Lecturer in Medicine, St. Mary's Hospital, London 1950-56, Prof. of Medicine 1956-; Chair. Medical Research Soc. 1968; mem. Medical Research Council 1969; mem. Advisory Board for the Research Councils 1973; Trustee, Wellcome Trust 1975; Councillor, Royal Coll. of Physicians 1977; Stouffer Prize 1968. *Publications:* Articles in The Biochemical Journal, Journal of Physiology, The Lancet; chapters in textbooks on renal disease and high blood pressure. *Leisure interests:* reading and tennis. *Address:* Medical Unit, St. Mary's Hospital, London, W.2 (Office); 5 Fordington Road, London, N.6, England (Home). *Telephone:* 01-262 1280 (Office); 01-883 9346 (Home).

PEASE, Rendel Sebastian, M.A., SC.D., F.R.S.; British physicist; b. 2 Nov. 1922, Cambridge; s. of Michael Stewart Pease and Helen Bowen (née Wedgwood); m. Susan Spickernell 1952; two s. three d.; ed. Bedales School and Trinity Coll., Cambridge; Scientific Officer, Ministry of Aircraft Production at Operational Research Unit, HQ, R.A.F. Bomber Command 1942-46; Research at A.E.R.E., Harwell 1947-61; Div. Head, Culham Lab. for Plasma Physics and Nuclear Fusion, U.K. Atomic Energy Authority (U.K.A.E.A.) 1961-67, Dir. of Culham Lab. 1968-; Visiting Scientist, Princeton Univ. 1964-65; Asst. Dir. U.K.A.E.A. Research Group 1967; Vice-Pres.

Inst. Physics 1973-77; Chair. Int. Fusion Research Council 1976-, Plasma Physics Comm., I.U.P.A.P. 1976-78; Pres., Inst. of Physics 1978-; Hon. D.Univ. (Surrey) 1973. *Publications:* articles in physics journals. *Leisure interest:* music. *Address:* The Poplars, West Ilsley, Newbury, Berks., England.

PECCEI, Aurelio, M.A., D.ECON.; Italian business executive; b. 4 July 1908, Turin; s. of late Roberto and Eugenia Rivotto; m. Marisa Peccei 1930; three c.; ed. Higher Commercial School "Quintino Sella", Turin, and Univ. of Turin; Fiat Co., Turin 1930-73, Div. Man. 1943-73, mem. Steering Cttee.; Founder Fiat industries in Argentina 1953, Chair. of Board Fiat Concord, Buenos Aires 1953-73; Man. Dir. Italconsult, Rome 1957-69, Chair. of Board 1969-76, Hon. Chair. 1977-78, 1978-; Man. Dir. Ing. C. Olivetti & Co. S.p.A., Ivrea 1964-67; Vice-Chair. 1967-73; Chair. Cttee. for Atlantic Econ. Co-operation, Paris, Nat. Inst. of Architecture, Rome; Pres. Club of Rome; mem. Board World Wildlife Fund, Geneva, Int. Inst. for Environment and Devt., London, Int. Ocean Inst., Malta, The Population Inst., Washington, D.C., Centre d'Etudes Industrielles, Geneva, European Man. Forum Foundation, Davos, Business Int. Corpn., New York. *Publications:* The Chasm Ahead 1969, The Human Quality 1976. *Leisure interest:* golf. *Address:* Italconsult S.p.A., Via Giorgione 163, 00147 Rome, Italy. *Telephone:* 5467-206-207.

PECK, Sir Edward Heywood, G.C.M.G.; British diplomatist (retd.); b. 5 Oct. 1915, Hove, Sussex; s. of Lt.-Col. E. S. Peck and Doris Heywood; m. Alison Mary MacInnes 1948; one s. two d.; ed. Clifton Coll. and Queen's Coll., Oxford; Probationer Vice-Consul, Barcelona 1938-39; Foreign Office 1939-40; Consulate, Sofia 1940, Ankara 1940-44; Consul, Adana 1944, Iskenderun 1944-45; Consulate-Gen., Salonica 1946; with U.K. Del. to UN Special Comm. on the Balkans 1947; transferred to Foreign Office 1947; seconded to C.R.O. for service at New Delhi 1950-52; Counsellor, Foreign Office 1952-54, Berlin 1955-58, Singapore 1959-60; Asst. Under-Sec. of State for Far Eastern and S.E. Asian Affairs, Foreign Office 1961-66; High Commr. of U.K. in Kenya 1966-68; Deputy Under-Sec. of State Foreign and Commonwealth Office 1968-70; Perm. Rep. of U.K. to North Atlantic Council 1970-75; Hon. Visiting Fellow in Defence Studies, Aberdeen Univ. 1976-. *Leisure interests:* skiing, mountaineering, reading history. *Address:* Easter Torrans, Tomintoul, Banffshire, Scotland.

PECK, Gregory, B.A.; American actor; b. 5 April 1916, La Jolla, Calif.; m.; five c.; ed. California Univ.; mem. Nat. Council on Arts 1965-67, reappointed 1968; Pres. Acad. of Motion Picture Arts and Sciences 1967-70; Medal of Freedom Award 1969; Acad. Award (Oscar) best actor 1962; Screen Actors' Guild Annual Award for Outstanding Achievement 1970; Acad. of Motion Picture Arts and Sciences Jean Hersholt Humanitarian Award 1968; Commdr. of Arts and Letters (France). *Appeared in plays including:* The Doctor's Dilemma, The Male Animal, Once in a Lifetime, The Play's the Thing, You Can't Take it With You, The Morning Star, The Willow and I, Sons and Soldiers. *Films include:* Days of Glory 1943, Keys of the Kingdom 1944, Spellbound 1945, The Valley of Decision 1945, Duel in the Sun 1946, The Macomber Affair 1947, Gentleman's Agreement 1947, The Paradine Case 1948, Yellow Sky 1949, Twelve O'Clock High 1949, The Great Sinner 1949, Captain Horatio Hornblower 1951, David and Bathsheba 1951, The Snows of Kilimanjaro 1952, Roman Holiday 1953, The Purple Plain 1954, The Man in the Grey Flannel Suit 1956, Moby Dick 1956, Designing Woman 1957, The Big Country, The Bravados 1958, Pork Chop Hill 1959, On the Beach 1959, Beloved Infidel 1959, Guns of Navarone 1961, Cape Fear 1962, How the West Was Won 1963, To Kill a Mocking Bird 1962, Captain Newman, M.D. 1963, Behold a Pale Horse 1964, Mirage 1964, Arabesque 1965, The Stalking Moon 1968, Mackenna's Gold 1969, The Chairman 1969, Marooned 1969, I Walk the Line 1970, Shoot Out 1971, Billy Two-Hats 1972, The Omen 1976, MacArthur 1977, The Boys from Brazil 1978, producer The Dove 1974. *Address:* 1041 North Formosa Avenue, Los Angeles, Calif. 90046, U.S.A.

PECK, Sir John Howard, K.C.M.G.; British, retired diplomatist; b. 16 Feb. 1913, Kuala Lumpur, Malaysia; s. of Howard C. B. and Dorothea Peck; m. Mariska Caroline Somló 1939; two s.; ed. Wellington Coll. and Corpus Christi, Oxford; Asst. Private Sec. to First Lord of Admiralty 1937-39, to Minister for Co-ordination of Defence 1939-40, to Prime Minister 1940-46; transferred to Foreign Service 1946, served UN Dept. 1946-47, The Hague 1947-50; Counsellor and Head of Information Research Dept. 1951-54; Counsellor (Defence Liaison) and Head of Political Div., British Middle East Office 1954-56; Dir.-Gen. British Information Services, New York 1956-59; U.K. Perm. Rep. to Council of Europe, and Consul-General, Strasbourg 1959-62; Amb. to Senegal 1962-66, and Mauritania 1962-65; Asst. Under-Sec. of State, Foreign Office, later Foreign and Commonwealth Office 1966-70; Amb. to Ireland 1970-73; Dir. Irish Dunlop Ltd., Edward Dillon and Co. Ltd. (Dublin). *Publication:* Dublin from Downing Street 1978. *Leisure interests:* writing, photography, gardening, electronics, do-it-yourself. *Address:* 4 Eglington Park, Dun Laoghaire, Co. Dublin, Ireland.

PECKER, Jean-Claude; French astronomer; b. 10 May 1923, Reims; s. of Victor-Noel Pecker and Nelly Catherine Herrmann; m. 2nd Annie A. Vormser 1974; one s. two d. (by previous marriage); ed. Lycée de Bordeaux, Univ. of Grenoble and Paris (Sorbonne) and École Normale Supérieure; Research Asst. Centre National de la Recherche Scientifique (C.N.R.S.) 1946-52; Asst. Prof. Univ. of Clermont-Ferrand 1952-55; Asst. Astronomer, Paris Observatory 1955-62, Astronomer 1962-65; Dir. Nice Observatory 1962-69; Prof. Collège de France 1963-; Asst. Gen. Sec. Int. Astronomical Union 1961-63, Gen. Sec. 1964-67; Pres. Comité Nat. Français d'Astronomie 1970-73; Dir. Inst. Astrophysique, Paris 1971-78; Pres. Soc. Astronomique de France 1973-76; Pres. French Assn. for Advancement of Science 1978; Assoc. Royal Soc. of Science, Liège 1967; Corresp. Bureau des Longitudes 1968; Assoc. Royal Astronomical Soc. 1968; Corresp mem. Académie des Sciences, France 1969, mem. 1977; mem. Acad. Nat. Bordeaux 1977; Commdr. Palmes académiques, Chevalier Légion d'honneur; Prix Forthuny, Inst. de France, Prix Stroobant Acad. des Sciences de Belgique 1965, Prix Manley-Bendall de l'Acad. de Bordeaux 1966, Prix des Trois Physiciens 1969; Janssen Medal Astronomical Soc., France 1967, Prix Jean Perrin, Soc. Française de Physique 1973, Medal Univ. de Nice 1972. *Publications include:* L'Astronomie au jour le jour (with P. Couderc and E. Schatzman) 1954, Astrophysique générale (with E. Schatzman) 1959, Le ciel 1959, L'Astronomie expérimentale 1969, Les laboratoires spatiaux 1969, Papa, dis-moi: L'Astronomie, qu'est-ce que c'est? 1971, Editor L'Astronomie nouvelle 1971. *Leisure interest:* painting. *Address:* 177 bis rue Saint-Jacques, 75005 Paris; Pusat Tasek, Les Corbeaux, 85350, Ile d'Yeu, France. *Telephone:* 033-25-40 (Paris).

PECKINPAH, (David) Sam(uel), M.A.; American film director, writer and producer; b. 21 Feb. 1925, Fresno, Calif.; s. of Judge David E. Peckinpah and Fern Church; m. three times; one s. three d.; ed. Fresno State Coll. and Univ. of Southern Calif. *Films directed:* Deadly Companions 1961, Ride the High Country (Best Foreign Picture, Mexico and Best Picture Award, Brussels Film Festival) 1962, Major Dundee 1965, The Wild Bunch 1969, The Ballad of Cable Hogue (Best Foreign Picture, Spain) 1969, Straw Dogs 1971, Junior Bonner 1972, The Getaway 1972, Pat Garrett and Billy the Kid 1973, Bring Me the Head of Alfredo Garcia 1974, The Killer Elite 1976, Cross of Iron 1977, Convoy 1978; has also directed several television series. *Leisure interests:* skin-diving, surfing. *Address:* 88 Calle Galeana, San Angel, Mexico, D.F., Mexico.

PEDERSEN, Arne Fog, B.D.; Danish ecclesiastic and politician; b. 25 Aug. 1911, Hinnerup; s. of A. J. Pedersen and E. Fog; m. Mette Høyer 1939; one s. two d. Teacher, Rødding Folk High School 1939-50, Principal 1953-68, 1971-76; Head of Denmark Radio's Lectures Dept. 1950-53; Minister of Ecclesiastical Affairs 1968-71; Chair. Liberal Educ. Assn. 1954; mem., Nat. Comm. for UNESCO 1955-, Gen. Council of Norden Assn. 1956-, Govt. Cttee to promote Danish Language and Culture Abroad 1957-; Del. to UN 1972; Consul-Gen., Flensburg 1976-; Chair. Grønse-foreningen 1972-76, Filadelfia 1974; Liberal. *Publications:* Danmarks første Højskole (Denmark's First Folk High School) 1944, Editor of Fyraften (Knocking-Off Time) 1953, Contrib. to Højskolens ungdomstid i breve (Early Years of the Folk High School Movement ■ Reflected in Contemporary Letters) Vol. 1; articles, mostly on history, North Slesvig and foreign policy. *Address:* Royal Danish Consulate, 239 Flensburg, Postbox 79, 6330 Padburg, Federal Republic of Germany. *Telephone:* Flensburg 2 33 05.

PEDERSEN, Helga, CAND.JUR.; Danish judge; b. 24 June 1911, Taarnborg; d. of J. P. Pedersen and Vilhelmine Pedersen (née Kolding); ed. Copenhagen Univ. and Columbia Univ., New York; Dept. of Justice 1936-46; Judge, District Court of Copenhagen 1948-50, 1953-56; Minister of Justice 1950-53; Judge, Court of Appeal, Copenhagen 1956-64; Justice of Supreme Court, Copenhagen 1964-; mem. Danish Parl. (Liberal Party) 1953-64; Del. to UN and UNESCO conferences on several occasions 1949-74; Judge, European Court of Human Rights 1971-; Chair. Nat. Comm. of UNESCO -74; mem. Danish Council for Planning of Higher Educ. 1968-73, Danish Council on Copyright 1962-73, Special Parole Board of Danish Prison Admin. 1968-73; Head Board of Danish Red Cross 1969-76; Chair. Reps. of Danish State Art Foundation 1965-73; Vice-Pres. Danish Welfare Assn. 1967-73; mem. Advisory Council on Prevention of Crime 1971-74; Vice-Pres. Revisionary Criminal Court; Chair. Danish Press Board 1971, and Controlling

Board of Danish Press Financing Inst. 1973; Pres. of the Trustees, Foundation for Trees and Environment 1974; Extraordinary mem. Acad. of Fine Arts 1974; Commdr. 1st Class, Order of Dannebrog (Denmark); Grand Cross Order of Orange-Nassau (Netherlands); Medal of Merit 1st Class, Danish Red Cross, Gold Medal (Assn. for World Peace through Law). *Publications:* Céline and Denmark 1975, and articles on legal and political subjects. *Leisure interests:* farming, travelling, art. *Address:* Statholdervej 19, Copenhagen N.V. 2400, Denmark. *Telephone:* 01-81-22-20.

PEDERSEN, Richard Foote, PH.D.; American university administrator and fmr. diplomatist; b. 21 Feb. 1925, Miami, Ariz.; s. of Ralph M. Pedersen; m. Nelda Newell Napier; one s. two d.; ed. Univ. of the Pacific, Stanford and Harvard Univs. Foreign Affairs Officer, UN Econ. and Social Affairs, Dept. of State 1950-53; Econ. and Social Affairs Adviser, Perm. Mission to UN 1953, held successive posts of Adviser on Political and Security Affairs, Senior Adviser and Chief of Political Section, Counsellor, Senior Adviser to Perm. Rep. to UN, with rank of Amb.; Deputy U.S. Rep. in Security Council 1967; Counsellor, Dept. of State 1969-73; Amb. to Hungary 1973-75; Senior Vice-Pres. (Int.) United States Trust Co. 1975-78; Pres. American Univ. in Cairo 1978-; Hon. LL.D. (George Williams Coll.) 1964, (Univ. of the Pacific) 1965. *Leisure interests:* swimming, YMCA. *Address:* The American University in Cairo, 113 Sharia Kasr al-Aini, Cairo, Egypt (Office); 5011 Rockmere Court, Washington, D.C. 20016, U.S.A.

PEECH, Alan James, B.A., LL.D.; British business executive (retd.); b. 24 Aug. 1905; ed. Wellington Coll. and Magdalen Coll., Oxford. Dir. and Chair. United Steel Cos. Ltd.; Deputy Chair. (Operations) British Steel Corpn. and Gen. Man. Dir. Midland Group, British Steel Corpn. 1967-70; Deputy Chair. Steetley Co. Ltd. to 1976; Dir. Tinsley Wire Industries Ltd.; Independent Chair. Cement Makers' Federation 1970-76; Gov. Wellington Coll. to 1975; Hon. LL.D. (Sheffield). *Address:* High House, Blyth, Nr. Worksop, Notts., England (Home).

PEETERS, Baron Flor; Belgian composer, organist and teacher; b. 4 July 1903, Tielen; s. of Louis Peeters and Elisabeth Deckers; m. Marieke van Gorp 1928; one s. two d.; ed. Lemmens Inst., Mechelen; Organist, Metropolitan Cathedral of Belgium, Mechelen 1923-; Prof. of Organ, Lemmens Inst., Mechelen 1923-52, Royal Conservatory of Ghent 1931-48; Prof. of Organ and Composition, Conservatory of Tilburg (Netherlands) 1935-48; Prof. of Organ and Composition, Royal Flemish Conservatory, Antwerp 1948-68; Dir. of Royal Flemish Conservatory 1952-68; world-wide recitals; Ed. and Publr. of De Praestant 1951-72; mem. Royal Flemish Acad. for Fine Arts; Hon. mem. Royal Acad. of Music, London; Hon. D.Mus. (Catholic Univ. of America, Catholic Univ. of Louvain); Prix Lemmens-Tinel; Commdr. Order of Gregory the Great; Grand Officier de l'Ordre de Léopold. *Compositions:* (organ) Sinfonia, Lied-Symphony, Passacaglia and Fugue, 3 preludes and fugues, 300 chorale preludes, concerto for piano and organ, concerto for organ and orchestra, concerto for piano and orchestra, concertino for positiv organ and harpsichord, Sonata quasi una Fantasia, chamber music, piano music and lieder; numerous gramophone recordings. *Publications:* Ars Organi (3 vols.), Old Netherlands Masters for the Organ (3 vols.), Anthologia pro organo (4 vols.), The Organ and its Music in the Netherlands (with M. A. Vente) 1971, Practical Method for Plain Chant Accompaniment. *Address:* Villa Adagio, Stuivenbergbaan 123, Mechelen, Belgium.

PEGOV, Nikolay Mikhailovich; Soviet politician and diplomatist; b. 16 April 1905; ed. Industrial Acad., Moscow; Sec., Far Eastern Territory Cttee. of the Party 1938; First Sec. Maritime Territory Cttee. 1938-47, Vladivostok City Cttee. 1940-47; held exec. post in the Cen. Cttee of the CPSU 1947-52, Sec. Cen. Cttee of the CPSU 1952; Sec. Presidium of the Supreme Soviet of the U.S.S.R. 1953-56; Ambassador to Iran 1956-63, to Algeria 1964-67, to India 1967-73; Vice-Minister for Foreign Affairs 1973-; mem. CPSU Cen. Cttee. 1939-; Cand. mem. Presidium of Cen. Cttee. of CPSU 1952-53; awarded Order of Lenin (three times), Order of the Red Banner of Labour, Order of the Patriotic War, 1st Class and other decorations. *Address:* Ministry of Foreign Affairs, Moscow, U.S.S.R.

PEI IEOH MING, M.ARCH., F.A.I.A., R.I.B.A.; American architect; b. 26 April 1917, Canton, China; s. of Tsu Yee Pei and Lien Kwun Chwong; m. Eileen Loo 1942; three s. one d.; ed. Shanghai, Massachusetts Inst. of Technology and Harvard Univ.; in U.S.A. 1935-; naturalized citizen 1954-; architectural practice 1939-, Webb and Knapp Inc. 1948-55, I. M. Pei & Partners 1955-; Asst. Prof. Harvard Graduate School of Design 1945-48; Wheelwright Fellow, Harvard Univ. 1951; M.I.T. Traveling Fellowship 1940; Fellow A.I.A.; mem. Nat. Council on the Humanities 1966-70, American Acad. of Arts and Sciences, Nat. Acad. of Design, American Acad. and Inst. of Arts and Letters (Chancellor 1978-), American Acad. of Arts and Letters, Urban Design Council (New York), Corpn. of the Mass. Inst. of Tech. 1972-77, 1978-(83); Hon. D.F.A. (Pennsylvania) 1970, (Rensselaer Polytechnic Inst.) 1978, Hon. LL.D. (Chinese Univ. of Hong Kong) 1970; Brunner Award, Nat. Inst. of Arts and Letters 1961; Medal of Honor N.Y. Chapter A.I.A. 1963, The Thomas Jefferson Memorial Medal for Architecture 76. *Projects include:* Mile High Center (Denver); M.I.T. Earth Science Building (Cambridge, Mass.); U.S. Embassy Building (Montevideo); East-West Center, Univ. of Hawaii; redevt. projects in New York, Philadelphia, Washington, Chicago, Pittsburgh and Singapore; Nat. Center for Atmospheric Research (Boulder, Colorado); Grave of Robert F. Kennedy; Nat. Airlines Terminal (Kennedy Int. Airport); Washington Sq. East (Philadelphia); Everson Museum of Art (Syracuse N.Y.); Nat. Gallery of Art East Building (Washington, D.C.); Wilmington Tower (Wilmington, Del.); John Fitzgerald Kennedy Library Complex (Boston, Mass.); Canadian Imperial Board of Commerce Complex (Toronto); Des Moines Art Center Addition (Des Moines, Iowa); Cleo Rogers Memorial County Library (Columbus, Ind.); planning projects in Boston, Oklahoma City and N.Y. City; Master Plan Columbia Univ. (N.Y.) 1970; Dallas Municipal Bldg. (Dallas); Raffles Int. Centre complex (Singapore); Overseas-Chinese Banking Corpn. Centre (Singapore); Herbert F. Johnson Museum of Art (Ithaca, N.Y.); New West Wing, Museum of Fine Arts (Boston, Mass.); Mellon Art Center, The Choate School (Wallingford, Conn.), Sunning Plaza (Hong Kong); Gold Medal (American Inst. of Architects) 1979. *Address:* 600 Madison Avenue, New York, N.Y. 10022 (Office); 11 Sutton Place, New York, N.Y. 10022, U.S.A. (Home). *Telephone:* (212)751-3122 (Office).

PEIERLS, Sir Rudolf Ernst; Kt., C.B.E., PH.D., M.A., D.SC., F.R.S.; British scientist; b. 5 June 1907, Berlin, Germany; s. of Heinrich Peierls and Elisabeth (née Weigert); m. Eugenia Kannegiser 1931; one s. three d.; ed. Berlin, Munich and Leipzig Univs. and Fed. Inst. of Technology, Zürich; Asst. Fed. Tech. High School, Zürich 1929; Rockefeller Fellow 1932; Hon. Research Fellow, Manchester Univ. 1933-35; Research Asst. Royal Soc. Mond Laboratory, Cambridge Univ. 1935-37; Prof. of Applied Mathematics, Birmingham Univ. 1937-46; work on atomic energy, Birmingham, New York, Los Alamos 1940-45; Prof. of Mathematical Physics, Birmingham Univ. 1946-63; Wykeham Prof. Univ. of Oxford 1963-74; part-time Prof. of Physics, Univ. of Washington, Seattle 1974-77; Foreign Hon. mem. American Acad. of Arts and Sciences 1962; Foreign Assoc. U.S. Nat. Acad. of Sciences 1970; Fellow, New Coll., Oxford 1963-74, Emer. Fellow 1974-; Hon. Fellow, Inst. of Physics 1974; Hon. D.Sc. (Liverpool, Birmingham, Edinburgh, Sussex); Council of Royal Soc., London 1958; Royal Medal of Royal Soc. 1959; Lorentz Medal Royal Netherlands Acad. of Sciences 1962; Max Planck Medal, Assn. of German Physical Socs. 1963; Guthrie Medal, Inst. of Physics and Physical Soc. 1968. *Publications:* Quantum Theory of Solids, The Laws of Nature 1955. *Leisure interests:* travelling, photography. *Address:* Farleigh, Orchard Lane, Old Boar's Hill, Oxford OX1 5JH, England.

PEIRANO FACIO, Jorge; Uruguayan politician; b. 8 Sept. 1920; m. Alba Basso; seven c.; ed. Faculty of Law and Social Sciences, Montevideo; Asst. Prof. of Civil Law, Faculty of Law, Montevideo 1947, Prof. 1952; Faculty of Law and Social Sciences, Montevideo 1954-59; Dir. Revista de Derecho Jurisprudencia y Administración 1956; Sec. Coll. of Advocates, Uruguay 1949-52; Under-Sec. Ministry of Interior 1950; mem. Uruguayan Del. to OAS Conf. Buenos Aires 1957; fmr. Pres. Nat. Chamber of Commerce; other business and banking appointments; Minister of Industry and Commerce 1968-69, of Foreign Affairs 1970-71. *Publications include:* De los empréstitos de las Sociedades Anónimas por Emisión de obligaciones negociables 1943, Delitos de la Muchedumbre 1944, El derecho de resistencia, La cláusula penal 1947, Nuestra Legislación de Desalojos 1951, Responsabilidad Extracontractual 1954, El Proyecto de G. Civil de Eduardo Acevedo 1965. *Address:* c/o Ministerio de Relaciones Exteriores, Montevideo, Uruguay.

PEIVE, Aleksandr Voldemarovich; Soviet geologist; b. 9 Feb. 1909, Sementsovo village, Tver (now Kalinin) Region; s. of Voldemar Karlovich Peive and Emma Petrovna Berzina; m. Roza Ignatyevna Grin 1956; one s.; ed. Moscow Inst. of Geology and Prospecting; Scientific Assoc., Research Inst. of Fertilizers 1930-35; Senior Scientific Assoc., Head of Dept., Inst. of Geology, U.S.S.R. Acad. of Sciences 1935-, Dir. 1960-; mem. CPSU 1953-; Pres. Int. Sub-Cttee. on tectonic map of world 1972-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-64, Academician 64-; State Prize 1946, 1969; Order of Lenin and other decorations. *Publications:* numerous

works on problems of regional and theoretical tectonics. *Address:* c/o Geological Institute, U.S.S.R. Academy of Sciences, 7 Pyzhevsky, Moscow 10917, U.S.S.R.

PEKERIS, Chaim L., D.SC.; American applied mathematician, geophysicist and educator; b. 15 June 1908, Alytus, Lithuania; s. of Samuel Pekeris and Chaya Rivel; m. Leah Kaplan 1933 (died 1973); ed. Massachusetts Inst. of Technology; Rockefeller Fellow 1934-35; Research at Cambridge Univ., England 1935-36; Lectured in Geophysics at Mass. Inst. of Technology 1936-40; mem. War Research Dept., Columbia Univ. 1940-45. Dir. Mathematical Physics Group 1945-47; mem. Inst. for Advanced Study, Princeton 1947-48; Prof. and Head, Dept. of Applied Mathematics, Weizmann Inst. of Science, Rehovoth, Israel 1948-73, Distinguished Inst. Prof. 1973-; mem. Israel Acad. of Sciences and Humanities, Nat. Acad. of Sciences and Humanities, Nat. Acad. of Sciences, U.S.; Foreign mem. Accademia Nazionale dei Lincei, American Acad. of Arts and Sciences, American Philosophical Soc.; Foreign Assoc. Royal Astronomical Soc., England; Rothschild Prize in Mathematics 1966. *Publications:* Papers in applied mathematics and geophysics. *Address:* Weizmann Institute of Science, Rehovot, Israel. *Telephone:* (054) 82-111.

PELED, Natan; Israeli politician; b. 3 June 1913, Odessa; s. of Yosef and Lea Peled; m. Mania Peled 1936; two d.; ed. secondary school; immigrated to Palestine 1932; agricultural labourer in Kibbutz; Sec.-Gen. of Kibbutz Fed 'Hashomer Hatzair' 1950-55; Political Sec., Mapam Party 1956-58; Minister of Israel to Bulgaria 1958-60; Amb. to Austria 1960-63; mem. Knesset 1965-69; Minister of Immigrant Absorption 1970-74; Sec.-Gen. of Kibbutz Fed. Hashomer Hatzair 1975-. *Address:* Kibbutz Sarid, Israel.

PELIKÁN, Jiří; Czechoslovak fmr. television official and diplomatist; b. 7 Feb. 1923, Olomouc; ed. Charles Univ., Prague; in illegal movement, Second World War, imprisoned 1940; worked at Prague Regional Cttee., CP of Czechoslovakia 1947-49, 1952-53, at Central Cttee., CP of Czechoslovakia 1949-52; Central Cttee. of Czechoslovak Youth Union 1954-63; Deputy to Nat. Assembly 1948-53, 1964-69; Chair. Int. Union of Students 1953-63; Gen. Dir. Czechoslovak Television 1963-68; Counsellor, Czechoslovak Embassy, Rome 1968-69; mem. Ideological Comm. of Central Cttee. of CP of Czechoslovakia 1963-69; Chair. Foreign Affairs Cttee. of Nat. Assembly 1968; Deputy, House of People, Fed. Assembly 1969; in exile abroad Sept. 1969-; deprived of Czech citizenship 1970; now living in U.K.

PELISSIER, Jacques Daniel Paul; French civil servant and railway administrator; b. 4 Feb. 1917, Versailles; s. of Jean Pelissier and Camille Bertrand; m. Jeanine Picard 1946; one s.; ed. Lycée Pasteur, Lycée Hoche, Lycée Chaptal, Inst. Nat. Agronomique; engineer, external service of Ministry of Agric. 1938-44; Sec.-Gen. Landes 1944, Ardennes 1945; Sous-préfet hors cadre, Chef du Cabinet to Minister of Agric. 1946; Asst. Chef du Cabinet, Minister of Industry and Commerce 1948; Sec.-Gen. Indre-et-Loire 1950; Sous-préfet, Saumur 1954; Dir. for Gen. Govt. of Algeria, in Ministry for Algeria and in Gen. Del. of Govt. in Algeria 1956-60; Préfet hors cadre 1957; Préfet, Aude 1960, Hérault and Region of Languedoc-Roussillon 1964, Ille-et-Vilaine and Region of Brittany 1967, Rhône and Region of Rhône-Alpes 1972; Préfet hors cadre, Dir.-Gen. of Admin., Ministry of the Interior April 1974; Dir. du Cabinet for Prime Minister May 1974; Chair. Board of Dirs. Soc. Nat. des Chemins de Fer Français Sept. 1975-; Commdr. Légion d'honneur, Commdr. Ordre national du Mérite, Mil. Cross (1939-45), Médaille de la Résistance. *Address:* Société Nationale des Chemins de Fer Français, 88 rue St. Lazare, 75436 Paris Cédex 09, France.

PELIZA, Major Robert John; Gibraltar politician; b. 16 Nov. 1920, Gibraltar; s. of Robert Peliza and Emily Victory; m. Irma Risso 1950; three s. four d.; ed. Christian Brothers' Coll., Gibraltar; served in Gibraltar Reg. 1939-61; company dir. 1962; Leader, Integration with Britain Party 1967; Chief Minister of Gibraltar 1969-1972; Leader of the Opposition 1972. *Leisure interests:* painting, writing, swimming, walking and sports in general. *Address:* Buena Vista Cottage, Buena Vista Road, Gibraltar. *Telephone:* 6110.

PELJEE, Myatavyn: Mongolian politician; b. 1927; ed. Mongolian State Univ. and Acad. of Social Sciences of CPSU Central Cttee., Moscow; Official of the Mongolian People's Revolutionary Party (MPRP) Cen. Cttee. 1950-56; Head of ■ Dept. of MPRP Cen. Cttee. 1960-66; Minister of Geology 1966-68, of Fuel, Power and Geology 1968-76, of Geology and Mining Industry April-June 1976; Deputy Chair. Council of Ministers 1976-; Chair. Comm. for CMEA (Comecon) Affairs 1977-; mem. MPRP Cen. Cttee. 1961-; Deputy to People's Great Hural (Assembly) 1963-; Order of the Red Banner of Labour, Order of the Pole Star. *Address:* Government Palace, Ulan Bator, Mongolia.

PELL, Claiborne de Borda, A.M.; American politician; b. 22 Nov. 1918; ed. Princeton and Columbia Univs. Limited Partner, Auchinloss, Parker and Redpath; U.S. Coastguard 1941-45; now Capt. U.S.C.G.R.; United States Foreign Service Officer; Instructor and Lecturer, Naval and Mil. Govt. Schools 1944-45; served State Dept., Czechoslovakia, Italy, Washington 1945-52; Co. dir. and trustee 1952-60; Consultant, Dem. Nat. Cttee. 1953-60; U.S. Del. to Inter-Govtl. Maritime Consultative Org. (IMCO) London 1959; Senator from Rhode Island 1961-; Légion d'honneur, Crown of Italy, etc.; Democrat. *Publications:* Rochambeau and Rhode Island 1954, Megalopolis Unbound 1966, Challenge of the Seven Seas (with Harold L. Goodwin) 1966, Power and Policy 1972. *Address:* Senate Office Building, Washington, D.C. 20510; Ledge Road, Newport, R.I.02840, U.S.A.

PELLA, Giuseppe; Italian economist and politician; b. 18 April 1902; ed. Univs. of Rome and Turin; founder and 1st Pres. of Catholic Org. for Secondary School Students 1919; active in commercial finance until 1939; participated in Int. Wool Conf. 1932-39; Christian Democrat Deputy 1946-; Under-Sec. of Finance 1946-47, Minister 1947-48; Minister of Treasury and ad interim Minister of Budget 1948-51, of Budget 1951-52, of Budget and Treasury 1952-54; Prime Minister, Minister for Foreign Affairs and Budget 1953-54; Deputy Prime Minister, Minister of Foreign Affairs 1957-58; a Governor of IMF and Rep. on OEEC; Pres. Common Assembly, European Coal and Steel Community 1954-56; Minister of Foreign Affairs 1959-60; Minister of Budget July 1960-62; Pres. Int. Centre of Studies and Documentation, European Communities, Nat. Inst. of Accounting; Dir. of newspaper Stato Sociale. *Address:* Camera dei Deputati, Palazzo Montecitorio, Rome; Via Ludovisi 35, Rome, Italy.

PELLEGRINO, H. E. Cardinal Michele; Italian ecclesiastic; b. 25 April 1903; ordained Priest 25; Archbishop of Turin 1965-77; created Cardinal by Pope Paul VI 1967. *Address:* Via Arcivescovado 12, Turin, Italy.

PELLETIER, Hon. Gérard, P.C., B.A.; Canadian journalist and politician; b. 21 June 1919, Victoriaville, PQ.; s. of Achille Pelletier and Léda Dufresne; m. Alexandrine Leduc 1943; one s. three d.; ed. Nicolet and Mont-Laurier Colls., Univ. of Montreal; Sec-Gen. Jeunesse étudiante catholique 1939-43; Field Sec. World Student Relief, Geneva 1945-47; Reporter, Le Devoir 1947-50; Dir. of Le Travail, official paper of Confed. of Nat. Trade Unions 1950-61; Ed. of La Presse 1961-65; Special Columnist for Le Devoir and group of English language dailies 1965; mem. Parl. for Hochelaga 1965; Parl. Sec. to Sec. of State for External Affairs 1967-68; Minister without Portfolio 1968; Sec. of State 1968-72; Minister of Communications 1972-75; Amb. to France 1975-; Liberal. *Leisure interest:* boating and swimming. *Address:* Canadian Embassy, avenue Montaigne 35, Paris, France.

PELLETIER, Raymond; French business executive; b. 12 Oct. 1910; ed. Ecole Polytechnique, Paris; joined Cie. Générale d'Electricité 1932, Vice-Chair. 1976; Hon. Chair. SAFT, Les Câbles de Lyon 1972; Dir. many other companies; Officer, Légion d'honneur; Croix de guerre. *Address:* Cie. Générale d'Electricité, 54 rue de la Boétie, Paris 75008 (Office); 13 rue des Marronniers, 75016 Paris, France (Home). *Telephone:* 563 14-14 (Office); 527-33-66 (Home).

PELNÁR, Jan; Czechoslovak politician; b. 24 April 1911, Mrákov; bricklayer 1926-46; Sec. District Trade Union Council, Klatovy 1946-47; Chair. District Nat. Cttee., Domažlice 1947-49; Head of Food Supplies Dept., Regional Nat. Cttee., Pilsen 1949-54; Chair. W. Bohemian Regional Nat. Cttee., Pilsen 1954-68; Minister of Interior 1968, Minister of Interior, Fed. Govt. 1969-70; mem. Presidium Central Cttee., Nat. Front 1970-71, Exec. Vice-Chair. Cen. Cttee. 1970-71; mem. State Comm. for Tech. 1965-68, Deputy to Czech Nat. Council 1968-71; mem. Presidium 1968; Deputy to House of Nations Fed. Assembly 1969-71; mem. Central Cttee. CP of Czechoslovakia 1954-71; numerous decorations include: Medal for Distinction in Construction 1955; Order of Labour 1961. *Address:* Federal Assembly, Prague 7, Czechoslovakia.

PELSER, Petrus Cornelius, B.A., LL.B.; South African politician; b. 28 Feb. 1907, Reddersburg, O.F.S.; s. of late J. A. Pelser and late J. J. M. Olivier; m. Magrieta Isabella Blignaut 1934; four s. one d.; ed. Paarl Gimnasium, Univ. of South Africa (private study) and Univ. of the Witwatersrand; joined Public Services 1925; Dept. of Mines 1925-37, Dept. of Commerce and Industry 1937-43; Attorney, Klerksdorp 1943; mem. Provincial Council, Klerksdorp 1950; mem. Parl. 1953-, Deputy Chair. of Cttees., House of Assembly 1962-66, Deputy Speaker and Chair. of Cttees. 1966; Minister of Justice and Prisons 1966-74, retd.; Nat. Party. *Leisure interest:* bowls. *Address:* Parliament Building, Pretoria, South Africa.

PELSHE, Arvid Yanovich; Soviet politician; b. 7 Feb. 1899; ed. Institute of Red Professors, Moscow; elected to Petrograd Soviet 1917; mem. CPSU 1915; party duties Archangel 1917-19; party and educ. work in Red Army and Navy 1919-29; party duties Kazakhstan 1933; Teacher at Higher Educational Inst. Moscow 1937-40; mem. Cen. Cttee. Communist Party of Latvia 1940-41, Sec. 1941-59, First Sec. 1959-66; mem. Political Bureau of Cen. Cttee of CPSU April 1966-; Chair. Party Control Cttee. of CPSU Cen. Cttee. 1966-; Deputy to U.S.S.R. Supreme Soviet 1946-; Hero of Socialist Labour, Order of Lenin (six times), "Hammer and Sickle" Gold Medal, Sixty Years of Armed Forces of U.S.S.R. Medal and other awards. *Publications:* many works on history of the CPSU and the history of the revolutionary movement in Latvia. *Address:* Central Committee of CPSU, 4 Staraya ploshchad, Moscow, U.S.S.R.

PELT, Adrian; Netherlands international official; b. 8 May 1892, Koogaan de Zaan; s. of M. A. Pelt and D. J. Endt; m. Andrée Bernard 1919; three d.; ed. Ecole des Sciences politiques, Paris; London corresp. 1915-16, and Paris corresp. 1916-19, mem. editorial staff of various Dutch newspapers; entered Information Section of League of Nations 1920, becoming Dir. of this Section 1934; during Second World War, organized and directed Netherlands Govt. Information Bureau, London; mem. Netherlands Del. to San Francisco Conf. 1945, UN Preparatory Comm., and First Session of Gen. Assembly; appointed Asst. Sec.-Gen. in charge of Dept. of Conference and Gen. Services 1946; UN Commr. for Libya 1949-52; Dir. UN European Office, Geneva, Sept. 1952-57; Sec.-Gen. World Fed. of UN Asscns. 1958-63, Pres. 1963-66, Hon. Pres. 1966; Rep. of Netherlands Heart Foundation with WHO; Wateler Peace Prize; Dr. h.c. Univ. of Amsterdam; Knight Order of the Lion (Netherlands); Grand Cordon of the Order of the Senussi (Libya); Hon. Citizen of N.Y. *Publications:* Libyan Independence and the United Nations 1970. *Leisure interests:* reading, walking, fishing, hunting. *Address:* Le Mestral, 1248 Hermance, Geneva, Switzerland.

PEMÁN, José María; Spanish author; b. 1897, Cádiz; s. of Juan Pemán and María Pemartín; m. María del Carmen Domecq 1922; two s. seven d.; ed. Coll. San Felipe Neri and Univs. of Seville and Madrid; Dir. of Real Acad. Española 1939-42 and 1947-50; mem. Acad. Argentina de Letras, Lisbon Acad. of Sciences; Hispanic Soc. of America, Acad. de Cuba, Acad. de Puerto Rico; Dr. h.c. (Santo Domingo); Juan March Prize 1957; Gran Cruz Orden Alfonso X, Gran Cruz de Carlos III, Gran Cruz Orden del Mérito (Ecuador), Gran Cruz Orden del Sol (Peru), Gran Cruz de Mérito (Peru). *Publications:* include essays, poems, novels and plays, in particular: Elegía de la Tradición de España 1931, El Divino Impaciente (Real Academia Española Award, 1933) and his essay Nieve en Cádiz (Mariano de Cávia Award, 1935), Edipo, Antigona, Hombre Nuevo. *Leisure interests:* travel, reading, music, theatre. *Address:* Felipe IV, No. 9-3°, Madrid (14); and Plaza de San Antonio, Cádiz, Spain. *Telephone:* 222-14-12 (Madrid).

PEÑALOSA, Enrique; Colombian economist; b. 31 Aug. 1930, Soacha; s. of Vicente Peñalosa and Abby Camargo; m. Cecilia Londoño; four s. one d.; Econ. Ed. Semana weekly review 1952; Asst. in Nat. Planning Office 1952-53; IBRD Training Course 1954, missions in Colombia 1955; private econ. consultant 1956-61; mem. Comisión Paritaria Económica 1957, City Council, Bogotá 1958-62, Nat. Council for Petroleum Affairs 1958, Advisory Cttee. of Partido Liberal 1959; First Exec. Dir. Corpn. Autónoma Regional de la Sabana de Bogotá 1961; First Gen. Man. Colombia Inst. Colombiana de Reforma Agraria 1961-68; Minister of Agriculture 1968-69; Alt. Exec. Dir. Inter-American Devt. Bank 1970-71, Admin. Man. 1971-74; Sec.-Gen. UN Conf. on Human Settlements (Habitat) 1974-76; Pres. Acería del Caribe, Corpn. Pesquera Colombiana 1977-78; Private Consultant 1977-78; Fellow, Adlai Stevenson Inst. of Int. Affairs 1972-74; Order of Orange-Nassau (Netherlands); Legion of Agricultural Merit (Peru). *Address:* Carrera 6, No. 26-85, Bogotá, D.E. Home: Transversal 13 No. 124-30, Int. 4, Apt. 604, Bogotá D.E., Colombia. *Telephone:* 2838326 (Office); 2597611 (Home).

PENDERECKI, Krzysztof; Polish composer and conductor; b. 23 Nov. 1933, Dębica, Cracow District; m. Elżbieta Penderecka; two s.; ed. Uniwersytet Jagiellonski, Cracow and State Higher Music School, Cracow; studied composition first with Skolyszewski, later with Malawski and Wiechowicz, Cracow; graduated from State Higher Music School, Cracow 1958; Lecturer in Composition, State Higher Music School, Cracow 1958-66, Prof. Extraordinary 1972-75, Prof. 1975-, Rector 1972-; Prof. of Composition, Folkwang Hochschule für Musik, Essen 1966-72; Musical Adviser Vienna Radio 1970-71; Prof of Composition, Yale Univ., U.S.A. 1973-; Hon. mem. Royal Acad. of Music, London 1975, Arts Acad. of German Dem. Repub. 1975, Arts Acad. of W. Berlin 1975, Royal Acad. of Music, Stockholm 1975; Dr. h.c.; Fitelberg Prize for Threnody for the Victims of Hiroshima 1960, also UNESCO award 1961, Polish Ministry of Culture Award 1961; Cracow Composition Prize for Canon 1962; North Rhine-Westphalia Grand Prize for St. Luke Passion 1966, also Pax Prize (Poland) 1966; Jurzykowski Prize, Polish Inst. of Arts and Sciences 1966; Gustav Charpentier Prize 1971; Gottfried von Herder Prize 1977, Arthur Honegger Music Award for Magnificat 1978; Dr. h.c. (Univ. of Rochester, N.Y.) 1972. *Works include:* Psalms of David (for choir and percussion) 1958, Emanations (for 2 String Orchestras) 1958, Strophes (for soprano, speaker and ten instruments) 1959, Anaklasis (for strings and percussion) 1960, Dimensions of time and silence (for 40-part mixed choir and chamber ensemble) 1960, String Quartet 1960, Threnody for the Victims of Hiroshima (for 52 strings) 1960, Polymorphia (for 48 strings) 1961, Psalms 1961 for Japes 1961, Fluorescences (for large orchestra) 1962, Sonata for 'cello and orchestra 1964, Passio et mors domini nostri Jesus Christi secundum Lucam (for soprano, baritone, bass, speaker, boys' choir, mixed chorus and large orchestra) 1963-65, Capriccio per oboe e ii archi 1965, De natura sonoris (for large orchestra) 1966, Dies irae (for soprano, tenor, bass, chorus and large orchestra) 1967, Quartetto per archi II 1968, The Devils of Loudon (opera) 1968, Cosmogony 1970, Russian Mass Utrenja 1971, De natura sonoris II (for wind instruments, percussion and strings) 1971, Partita (for harpsichord, guitars, harp, double bass and chamber orchestra) 1972, First Symphony 1973, Canticum Canticorum (Salomonis for 16 voices and chamber orchestra) 1973, Magnificat (for bass solo, voice ensemble, double choir, boys' voices and orchestra) 1974, When Jacob Awoke (for orchestra) 1974, Raj utracony (Lost Paradise, opera) in preparation 1977, Violin Concerto 1977, Creation of the World (Oratory) in preparation 1978, Paradise Lost (Opera) 1978, Violin Concerto 1978. *Address:* Państwowa Wyższa Szkota Muzyczna, ul. Bohaterow Stalingradu 3, 31-038 Cracow; Home: ul. Cisowa 22, 30-229 Cracow, Poland. *Telephone:* 550-17.

PENDERGRASS, Eugene Percival, M.D., R.C.A.; American doctor; b. 6 Oct. 1895, Florence, S.C.; s. of Edward J. and Eula Ethel Smith Pendergrass; m. Rebecca Barker 1922; one s. two d.; ed. Wofford Coll., Univs. of N. Carolina and Pennsylvania; Dir. Dept. of Radiology, Univ. of Pa. Hospital 1939-61; Dir. Dept. of Radiology Jeanes Hosp., Philadelphia 1948-61; Pres. Medical Staff, Univ. of Pa. Hospital 1949-53; Prof. of Radiology, School of Medicine and Graduate School of Medicine Univ. of Pa. 1936-61, Emer. Prof. of Radiology 1961-; Dir. Bicentennial Observance School of Medicine 1962-65, Wilson Prof. of Research Radiology 1964-66; mem. Nat. Research Council (Cttee. on Radiology, American Coll. of Radiology and Pres. 1948-49; mem., Sec. 1932-37, Amer. Roentgen Ray Soc., Radiological Soc. of N. America; Chair. of Board of Dirs. 1952 and Pres. 1954; Sec.-Gen. Fifth Inter-American Congress on Radiology 1955; mem. Operation Crossroads (Bikini) 1946; Consultant to Atomic Bomb Casualty Comm. 1948-49, 1968-; Chair. Cttee. on Cancer Control, Nat. Cancer Inst. 1960; mem. Board Scientific Counsellors, Nat. Cancer Inst. 1957-59, Pneumoconiosis Comm. 1959-; mem. Pneumoconiosis Panel U.S. Public Health Service, Council on Health Manpower A.M.A., Govs. Conf. on Pneumoconiosis—State of Pa., Secretary's Coal Mine Health Research Advisory Council, U.S. Public Health Service 1970-; del. Section in Radiology A.M.A. 1957-65, Diagnostic Research Panel N.C.I. 1961-62; mem. Special Medical Advisory Group, Veterans' Admin. 1957-62; Pres. American Cancer Soc. 1958-59, mem. of Board 1960-65; Pres. Eastern Radiological Soc. 1973-74; Pres. Board of Trustees Picker Foundation; Trustee Presbyterian Hospital, American Oncologic Hospital, Philadelphia; Hon. Life mem. Radiological Soc. of S. Africa 1975; Gold Medal American Medical Assen. 1929, award American Roentgen Ray Soc. 1944, Radiological Soc. of N. America 1946, 1957, and of American Coll. of Radiology 1956, Univ. of N.C. Distinguished Service Award 1958, Strittmatter Award, Philadelphia County Medical Soc. 1965; American Cancer Soc. Annual Nat. Award 1966, Pa. Medical Soc. Distinguished Service Award 1970; Golden Plate Award, American Acad. of Achievement 1971; Hon. Dr. Sc (Woffard Coll.) 1959; Hon. D.Sc. (Hahnemann Medical Coll.) 1964; Hon. LL.D. (Geneva Coll., Pa.) 1970. *Publications:* The Head and Neck in Roentgen Diagnosis (with Schaeffer and Hodes) 1940, The Pneumoconiosis Problem 1958, and many medical publs. *Leisure interests:* golf, bridge, fishing. *Address* Hospital of the University of Pennsylvania, Department of Radiology, 3400 Spruce Street, Philadelphia, Pa. 19104 (Office); 428 Owen Road, Wynnewood, Pa. 19096, U.S.A. (Home). *Telephone:* (215) 662-3035 (Office); (215) 642-2760 (Home).

P'ENG CH'UNG; Chinese party official; b. Fukien. Mayor, Nanking 1955-59; Deputy Sec. CCP Kiangsu 1960-65, Sec. 1965-68; Vice-Chair. Kiangsu Provincial Revolutionary Cttee. 1968; Alt. mem. 9th Cen. Cttee. of CCP 1969; Deputy Sec. CCP Kiangsu 1971; Alt. mem. 10th Cen. Cttee. of CCP 1973; First Sec. CCP Kiangsu 1974-76; Third Sec. Shanghai Party Cttee. 1976-79, First Sec. 1979-;

Chair. Shanghai Revolutionary Cttee. 1979-; mem. Politburo, 11th Cen. Cttee. of CCP 1977; Exec. Chair. Nat. Cttee. CCP, Vice-Chair. 1978. *Address:* People's Republic of China.

PENJOR, Sangye; Bhutanese diplomatist; b. 13 Feb. 1928, Bamthang; m.; two s. two d.; ed. local school; entered govt. service 1945; Officer-in-charge of Royal Household of Tashichholing; Chief District Officer, Bamthang District, Deputy Chief Sec. 1960; fmr. Minister for Communications; Perm. Rep. to UN 1971-75; Amb. to India 1975- (also accred. to Bangladesh). *Address:* Embassy of Bhutan, Chaudra Gupta Marg, Chanakyapuri, New Delhi 21, India.

PENN, Arthur; American theatre and film director; b. 27 Sept. 1922, Philadelphia; joined Army theatre company during World War II; worked in television 1951-53; produced plays for Broadway theatre including The Miracle Worker, All the Way Home, Toys in the Attic, Two for the Seesaw, In the Council House, Wait Until Dark, Sly Fox. *Films:* The Left-Handed Gun 1957, The Miracle Worker 1962, Mickey One 1964, The Chase 1965, Bonnie and Clyde 1967, Alice's Restaurant 1969, Little Big Man 1971, Night Moves 1975, The Missouri Breaks 1976; Co-Dir. Visions of Eight 1973. *Address:* 1860 Broadway, New York, N.Y. 10023, U.S.A.

PENN-NOUTH, Samdech; Cambodian politician; b. 1906; ed. Cambodian School of Administration; Ministry of Colonies, Paris 1938; Asst. to Minister of Palace 1940; Acting Minister of Finance 1945; Gov. of Phnom-Penh 1946-48; Minister of State 1946; Minister of State without Portfolio 1947; Prime Minister 1948-49, 1952-55, 1958; Amb. to France 1958-60; Prime Minister, Minister of the Interior and Minister of Religious Affairs 1961; Prime Minister and Minister of Religious Affairs 1961-62; Adviser to the Govt. 1967; Prime Minister 1968-69; Prime Minister of Royal Govt. of Nat. Union of Cambodia (GRUNC) 1970-76 (in Phnom-Penh 1975-76); High Counsellor, State Presidium April 1976-; numerous decorations. *Address:* State Presidium, Phnom-Penh, Cambodia.

PENNELL, M. M. (Monty), C.B.E.; British oil executive; b. 1916, Devon; m.; one s. two d.; ed. King George V School, Southport and Liverpool Univ.; joined British Petroleum Co. Ltd. 1946 and held posts in Iran, Sicily, E. Africa, N. America and Libya; Gen. Man. Exploration Dept., BP, London 1966-67; Man. Dir. BP Exploration Co. 1967-71; Chair. and Dir. (Technical) Exec. Cttee., BP Trading Ltd. 1971; Man. Dir. British Petroleum Co. Ltd. 1972-, Deputy Chair. Nov. 1975-. *Address:* British Petroleum Co. Ltd., Britannic House, Moor Lane, London, EC2Y 9BU, England.

PENNEY, Baron (Life Peer), cr. 1967, of East Hendred; **William George Penney,** O.M., K.B.E., PH.D., D.SC., F.R.S.; British scientist; b. 24 June 1909, Gibraltar; s. of W. A. Penney; m. 1st Adele Minnie Elms (deceased), 2nd Eleanor Joan Quenell; two s.; ed. Sheerness Technical School and Royal Coll. of Science, London Univ.; Commonwealth Fund Fellow, Univ. of Wis., U.S.A.; Senior Student of 1851 Exhbn., Trinity Coll., Cambridge 1933-36; Asst. Prof. Mathematics, Imperial Coll., London Univ. 1936-45; Prin. Scientific Officer, Dept. Scientific and Industrial Research 1944-45; Chief Supt. Armaments Research, Ministry of Supply 1946-52; Dir. Atomic Weapons Research Establishment, Aldermaston 1953-59; mem. for Weapons Research and Devt., U.K. Atomic Energy Authority 1954-59, for Research 1959-61, Deputy Chair. 1961-64, Chair 1964-67; Rector Imperial Coll. of Science and Tech. 1967-73; Dir. Tube Investments 1968-, Standard Telephones and Cables 1971-; Treas. Royal Soc. 1956-60; Rumford Medal, Royal Soc. 1966; Glazebrook Medal and Prize 1969; Kelvin Gold Medal 1971; Foreign Assoc. Nat. Acad. of Sciences U.S.A. 1962; Hon. D.Sc. (Oxford, Durham and Bath Univ. of Technology); Hon. LL.D. (Melbourne). *Address:* Orchard House, East Hendred, Wantage, Oxon., OX12 8JT, England.

PENNOCK, Sir Raymond, Kt., M.A.; British business executive; b. 16 June 1920, Redcar, Yorks.; s. of Frederick Henry and Harriet Anne Pennock (née Mathieson); m. Lorna Pearse 1944; one s. two d.; ed. Coatham School, Redcar, Yorks., and Merton Coll., Oxford; Capt., Royal Artillery 1941-46; with Imperial Chemical Industries Ltd. 1947-; Dir. ICI Ltd. 1972, Imperial Metal Industries Ltd. 1972-75, ICI Australia Ltd. 1972-75, Imperial Chemicals Insurance Ltd. 1973-75, Plessey Co. 1978-; Deputy Chair. ICI Ltd. Feb. 1975-; Pres. Chemical Inds. Assn. Ltd. 1978-. *Leisure interests:* opera, ballet, music, tennis. *Address:* Imperial Chemical Industries Ltd., Imperial Chemical House, Millbank, London, SW1P 3JF, England. *Telephone:* 01-834 4444.

PENROSE, Sir Roland Algernon, C.B.E.; British artist and art critic; b. 14 Oct. 1900, London; s. of James Doyle Penrose and the Hon. Elizabeth Josephine Peckover; m. 1st Valentine Boué 1925 (died 1978), 2nd Lee Miller 1947 (died 1977); one s.; ed. Leighton Park School, Reading and Queen's Coll., Cambridge; studied and painted in France 1922-34; with Surrealist Group 1933-39; army 1940-45; Founder, Inst. of Contemporary Arts (I.C.A.), Chair. 1947-69, Pres. 1969-76; Fine Arts Officer, British Council, Paris 1956-59, mem. Fine Arts Panel 1955-; mem. Arts Council 1957-67; Trustee, Tate Gallery 1959-66. *Publications:* The Road is Wider than Long 1939, In the Service of the People 1945, Picasso, His Life and Work 1958 (revised 1971), Portrait of Picasso 1958 (revised 1971), Miró, Creation in Space 1966, The Sculpture of Picasso 1967, The Eye of Picasso 1967, Miró, His Life and Work 1970, Man Ray 1975, Antoni Tàpies 1977. *Leisure interest:* gardening. *Address:* Farley Farm, Chiddingly, nr. Lewes, Sussex, England. *Telephone:* Chiddingly 308.

PENZIAS, Arno Allan, PH.D.; American astrophysicist; b. 26 April 1933, Munich, Germany; s. of Karl and Justine Penzias; m. Anne Barras Penzias 1954; one s. two d.; ed. City Coll. of New York, Columbia Univ.; Dir., Radio Research Laboratory, Bell Laboratories, Holmdel, N.J. 1976; Letters Editor, Astrophysical Journal 1977-; mem. Editorial Board Annual Review of Astronomy and Astrophysics 1977-; mem. Board of Trustees of Trenton State Coll. 1978-; Visiting Cttee. of Calif. Inst. of Tech. 1977-79, Specialist Advisory Cttee. of Max-Planck Inst. für Radioastronomie 1978-, Astronomy Advisory Panel of Nat. Science Foundation; mem. Nat. Acad. of Sciences, American Astronomical Soc., Int. Astronomical Union, Int. Union of Radio Science; Fellow American Acad. of Arts and Sciences, American Physical Soc.; Nobel Prize for Physics 1978; Dr. h.c. Paris Observatory 1976; Henry Draper Medal, Nat. Acad. of Sciences 1977; Herschel Medal, Royal Astronomical Soc. 1977. *Publications:* over 70 scientific papers in various journals; discovered cosmic microwave background radiation 1965; two patents for antennae, millimetre-wave diodes. *Leisure interests:* swimming, jogging, skiing. *Address:* Bell Laboratories, Crawford Hill Laboratory, Box 400, Holmdel, N.J. 07733, U.S.A. *Telephone:* (201) 949 3722.

PEOPLES, David Stuart, C.P.A.; American business executive; b. 6 June 1916, Morristown, Tenn.; s. of late J. Hansel and Mary L. Stuart Peoples; m. T. Kathleen Cook 1945; one s. one d.; ed. Tennessee High School, Bristol, and King Coll., Bristol; with Ernst and Ernst 1938-47; served U.S. Army 1941-45; Accountant, R. J. Reynolds Tobacco Co. 1947, Asst. Comptroller 1953-59, Comptroller 1959-66, Dir. 1959-, Vice-Pres. 1964-66, Exec. Vice-Pres. 1966-70; Pres., Chief Admin. Officer, R. J. Reynolds Industries, Inc. 1970-72, Dir. 1970, Vice-Chair. 1972. Chair. of Exec. Cttee. 1973-77 (retd.). *Address:* 2700 Bartram Road, Winston-Salem, N.C. 27106, U.S.A. *Telephone:* (919) 725-0838.

PÉPIN, Eugene, L. ES L., D. EN D.; French professor of law; b. 27 June 1887, Chinon; s. of Edmond Pépin and Eugénie Merlet; m. Germaine Megemont 1937; two s.; ed. Collège, Chinon, Ecole des Hautes Etudes Commerciales, Ecole des Chartres, Faculté de Droit, Paris and Faculté des Lettres, Sorbonne; Legal Adviser, French Foreign Ministry 1918-35, Int. Comm. of Air Navigation 1921-44; Dir. Legal Dept. Int. Civil Aviation Org., Montreal 1944-53; Dir. Inst. of Air and Space Law, McGill Univ., Montreal 1954-59; Prof. of Air and Space Law, Inst. of Contemporary Int. Relations 1959-; Pres. Int. Inst. of Space law 1964-; Pres. Société Archéologique Touraine; Dr. h.c. (McGill) 1976; Légion d'honneur, Croix de guerre 1914-18; various foreign orders. *Publications:* Histoire de la Touraine 1937, Droit aérien 1947, Géographie de la Circulation Aérienne 1956, Droit spatial 1961, Télécommunications 1966, La Loire au fil de ses Châteaux 1970, Secteurs Sauvegardés de France: Chinon. *Leisure interests:* skiing, music and gardening. *Address:* 51 rue Lévis, Paris 17e, France. *Telephone:* WAG 06-56.

PEPIN, Hon. Jean-Luc, P.C., C.C., B.A., L.PH., LL.L.; Canadian politician; b. 1 Nov. 1924; s. of Victor and Antoinette (née Morel) Pepin; m. Mary Brock-Smith 1952; one s. one d.; ed. Univ. of Ottawa and Institut d'Etudes politiques, Paris; Prof. Univ. of Ottawa 1951-56, 1958-63; Rep., Nat Film Board, London (U.K.) 1956-58; mem. Parl. 1963-72; Parl. Sec. to Minister of Trade and Commerce 1963; Minister without Portfolio 1965; Minister of Mines and Tech. Surveys (later Minister of Energy, Mines and Resources) 1965-68, of Industry, Trade and Commerce 1968-72; Pres. Interimco Ltd. 1973-75; Chair. Anti-Inflation Board 1975-77; Co-Chair. Task Force on Canadian Unity; Hon. Dr. (Ottawa) 1977; Hon. Dr. Public Admin. (Sherbrooke, Laval). *Address:* 171 Slater Street, Ottawa, Ontario (Office); 16 Rothwell Drive, Ottawa, Ontario K1J 7G4, Canada (Home). *Telephone:* (613) 995-3511 (Office); (613) 746-0845 (Home).

PEPPER, Claude Denson; American politician; b. 8 Sept. 1900, Dudleyville, Ala.; s. of J. W. and Lena Pepper; m. Mildred Webster 1936; ed. Univ. of Alabama and Harvard Univ. Law School; Instructor in Law, Univ. of Ark. 1924-25; private legal practice 1925-36;

mem. U.S. Senate 1936-51, House of Reps. 1962, 1964, 1966, 1968, 1970, 1972, 1974; Chair. Florida Del., Dem. Nat. Convention 1940-44, alt. del. 1948, 1952, 1956, 1960, 1964, del. 1968; Dir. Wash. Fed. Savings & Loan Assn., Miami; U.S. del. to various int. confs.; mem. House Rules Cttee.; Chair. House Select Cttee. on the Ageing. *Leisure interests:* golf, boating. *Address:* U.S. House of Representatives, Washington D.C.; 2121 North Bayshore Drive, Miami, Fla., U.S.A.

PEPPING, Ernst; German composer; b. 12 Sept. 1901, Duisburg; s. of Ernst Pepping and Emma Flübers; m. Marianne Scheinpflüg 1937; ed. Hochschule für Musik, Berlin; teacher at Berlin Kirchenmusikschule 1934; Prof. Berlin Musikhochschule 1953-67; mem. Akad. der Künste, Berlin and Munich; numerous prizes include Mendelssohn Prize 1926, Düsseldorf Robert Schumann Prize 1955, Bremen Philharmonische Gesellschaft 1962; Hon. Dr. Phil. Berlin Free Univ.; Hon. Dr. Theol. Berlin Kirchliche Hochschule. Compositions include three symphonies, piano concerto, Te Deum, string quartet, four piano sonatas, organ concertos and partitas, Passionsbericht des Matthäus, Deutsche Messe, Missa Dona nobis pacem and other church music. *Publications:* Der Polyphone Satz. *Address:* Johannesstift, Berlin-Spandau, Germany. *Telephone:* 335-1274.

PERALTA AZURDIA, Col. Enrique; Guatemalan army officer and politician; b. 11 June 1908, Guatemala City; s. of Juan Peralta and Ana Azurdia; m. Carmen Carrasco; two s.; ed. Polytechnic School, Guatemala City; Guatemalan army 1926, [illegible] from Lieut. to Col.; fmr. Dir. Polytechnic School; Mil. Attaché, Mexico, Chile, Costa Rica, El Salvador and U.S.A., fmr. Ambassador to Cuba, El Salvador and Costa Rica; Dir.-Gen. Agrarian Affairs 1958-59, Minister of Agric. 1959-60, of Defence 1961-63, Chief of State and Minister of Defence 1963-66; unsuccessful cand. for Pres. elections 1978. *Leisure interests:* travelling, chess. *Address:* 5A Avenida 1-47, Zona 9, Guatemala City, Guatemala.

PERCY, Charles Harting; American business executive and politician; b. 27 Sept. 1919; ed. Univ. of Chicago; sales trainee, apprentice, Bell & Howell 1938, Man., War Co-ordinating Dept. 1941-43, Asst. Sec. 1943-46, Corpn. Sec. 1948-49, Pres. 1949-61, Chief Exec. Officer 1961-63, Chair. Board 1961-66; Senator from Illinois 1967-; U.S. Naval Officer 1943-45; Republican. *Address:* Senate Office Building, Washington, D.C. 20510, U.S.A. *Telephone:* (202) 224-2152.

PERDIGÃO, José de Azeredo, LL.D.; Portuguese lawyer and foundation official; b. 19 Sept. 1896, Viseu; s. of José Perdigão and Rachel Azeredo Perdigão; m. Dr. Maria Madalena Biscaia de Azeredo Perdigão 1960; two s. one d.; ed. Lisbon and Coimbra Univ.; Lawyer, Lisbon 1919-26; Keeper of Registered Buildings Dept., Lisbon 1926-58; Chair. Bd. of Administrators Calouste Gulbenkian Foundation 1956-; fmr. Pres. Conf. of Inst. of Portuguese Lawyers; fmr. Dir. Nat. Overseas Bank; six hon. doctorates in Law, Science, Arts and Letters; Hon. mem. Brazilian Acad. Fine Arts; Corresp. mem. Acad. des Beaux Arts, Inst. de France 1969. *Leisure interests:* cultural and artistic. *Address:* Rua Marques de Fronteira, 8, 2° Dto., Lisbon, Portugal.

PEREIRA, Aristides Maria; Cape Verde politician; b. 17 Nov. 1923, Boa Vista; s. of Porfírio Pereira Tavares and Maria das Neves da Cruz Silva; m. Carlina Fortes; one s. two d.; ed. Lycée du Cap-Vert; began career as radio-telegraphist; Head, Telecommunications Services, Bissau, Portuguese Guinea (now Guinea-Bissau); founded Partido Africano da Independência da Guiné e Cabo Verde (PAIGC) with the late Amílcar Cabral 1956; mem. Political Bureau, Cen. Cttee., PAIGC 1956-70; fled to Repub. of Guinea 1960; Asst. Sec.-Gen. PAIGC 1964-73, Sec.-Gen. July 1973-, mem. PAIGC Council of War 1965-, Perm. Comm. of Exec. Cttee. for Struggle in charge of Security, Control and Foreign Affairs 1970-; Pres. Repub. of Cape Verde July 1975-; Médaille, Ordre du Lyon (Senegal), médaille Amílcar Cabral (Guinea-Bissau), Médaille de Fidélité au Peuple (Repub. of Guinea). *Leisure interests:* swimming, tennis, music. *Address:* Presidência da República, Cidade de Praia, São Tiago, Cape Verde. *Telephone:* 260.

PEREIRA, Helio Gelli, F.R.S., M.D.; British scientist; b. 23 Sept. 1918, Petropolis, Rio de Janeiro, Brazil; s. of R. and M. G. Pereira; m. Margurette Scott 1946; one s. two d.; ed. British American School, Rio de Janeiro and Faculdade Fluminense de Medicina, Niteroi and Instituto Oswaldo Cruz, Rio de Janeiro; Asst. lecturer in microbiology, Faculdade Fluminense de Medicina 1942-45; British Council Scholarship, Univ. of Manchester and Nat. Inst. for Medical Research, London, 1945-47; worked on rickettsial diseases and on quantitative aspects of serological reactions, Inst. Oswaldo Cruz 1947-52; with Medical Research Council, Common Cold Unit, Salisbury (U.K.) 1952-57; with Nat. Inst. for Medical Research 1957-73, Dir. World Influenza Centre 1961-69, Head, Div. of Virology 1964-73; Head, Div. Epidemiology, Animal Virus Research Inst. 1973-79. *Publications:* Viruses of Vertebrates 1972. *Leisure interest:* music. *Address:* c/o Laboratory of Comparative Virology, Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brazil.

PEREIRA, Sir (Herbert) Charles, Kt., PH.D., D.SC., F.R.S.; British agricultural scientist; b. 12 May 1913, London; s. of Mr. and Mrs. H. J. Pereira; m. Irene Beatrice Sloan 1941; three s. one d.; ed. Prince Albert Coll., Saskatchewan, Canada, St. Alban's School, Herts., England, London Univ. and Rothamsted Experimental Station, Herts.; war service with Royal Engineers in Western Desert, Italy and Germany; Soil Scientist Coffee Research Team Kenya 1946-52; Head of Physics Div., E. African Agricultural and Forestry Research Org. 1952-55, Deputy Dir. 1955-61; Dir. Agricultural Research Council of Cen. Africa 1961-67; Consultant in Land Use Hydrology (I.H.D. Programme) Food and Agricultural Org. 1968-69; Dir. East Malling Research Station, Kent, England July 1969-72; Chief Scientist, Ministry of Agric., Fisheries and Food 1972-77; Consultant in Tropical Agricultural Research 1978-; mem. World Bank Tech. Advisory Cttee. to C.G.I.A.R. 1971-76; Haile Sellassie Prize for Research in Africa 1966. *Publications:* Land Use and Water Resources 1973, 40 scientific papers on tillage and weed competition, soil fertility and water relations, catchment area research, tropical soil structure, etc. *Address:* Peartrees, Fairlawns, Teston, Maidstone, Kent ME18 5AD, England. *Telephone:* Maidstone 813333.

PEREIRA, Vasco Futscher; Portuguese diplomatist; b. 3 Feb. 1922, Lisbon; s. of Rudolf and Maria Rosa Futscher Pereira; m. 1st Margarida Belmarço de Carvalho 1946; two d; 2nd Maria Lucia Pedrosa 1976; one s.; Attaché, Ministry of Foreign Affairs 1948; held successive diplomatic posts in Rabat, Leopoldville (now Kinshasa); Consul-Gen., San Francisco 1956; Counsellor, Karachi 1962; Minister, Madrid 1967; Amb. to Malawi 1969, to Fed. Repub. of Germany 1973-74, to Brazil 1974-77; Perm. Rep. to UN 1977. *Leisure interests:* bridge, golf. *Address:* Delegation of Portugal to the United Nations, 777 Third Avenue, 27th Floor, New York, N.Y. 10017, U.S.A.

PEREIRA, William Leonard; American architect and planner; b. 25 April 1909; ed. Univ. of Illinois School of Architecture; Assoc. Holabird & Root, architects, Chicago 1930-32; private architectural practice, Chicago 1932-38, Los Angeles 1938-50; partnership, Pereira & Luckman, architects and engineers 1950-58; Principal, William L. Pereira and Assocs. 1958-; mem. Nat. Council on the Arts; Fellow American Inst. of Architects; numerous awards. Principal works: design of Los Angeles County Museum of Art, Occidental Center, CBS Television City, Marineland of Pacific, Los Angeles Int. Airport (in assn.), research and development centres for Lockheed, Hoffman, Gen. Telephone, Astropower; campus buildings for Univ. of Calif., Los Angeles, Brigham Young Univ. and Univ. of Southern Calif.; master plans for 93,000 acre Irvine Ranch, Santa Catalina Island, 10,700 acre Mountain Park, Univ. of Calif., Irvine, Univ. of S. Calif., Occidental Coll., Hawaii Loa Coll. and Central Univ. Library, Univ. of Calif. (San Diego); new town Ivory Coast, Africa; urban centre Taipei, Taiwan; 33 block Houston Centre; new town Dearborn, Michigan; Comprehensive Devt. Planning Study Burlington Northern Territories; developed National Aviation Concept Plan for Fed. Aviation Admin.; campus master plan for Univ. of Missouri; Pepperdine Univ. campus Malibu; designed Mutual Benefit Life Plaza, Great Western Financial H.Q.; Transamerica World H.Q. *Address:* William L. Pereira and Associates, 5657 Wilshire Boulevard, Los Angeles, Calif. 90036, U.S.A.

PEREIRA DOS SANTOS, Gen. Adalberto; Brazilian army officer; b. 11 April 1905, Taquara, Rio Grande do Sul; s. of Urbano Alves dos Santos and Otília Pereira dos Santos; m. Julieta Campos Pereira dos Santos (deceased); ed. Colégio Militar de Porto Alegre, Escola Militar do Realengo; rank of Brig.-Gen. 1958, Div. Gen. 1963, Gen. 1965; Adjutant, Mil. Gov. of São Paulo; Officer 1st Armoured Div., U.S. Army during Italian campaign 1945; Chief of Staff, Armoured Div.; Commdr. School of War Equipment; 2nd Army Sub-Chief of Staff; Army Chief of Staff; Amb., Special Mission to Chile 1964; Amb., Head of Special Mission to Paraguay 1968; Pres. Eighth Conf. of American Armies 1968; Minister of High Mil. Tribunal, then Pres.; Vice-Pres. of Brazil 1974-79; numerous decorations. *Leisure interests:* fencing, horse-riding. *Address:* c/o Office of the Vice-President of Brazil, Brasília, D.F., Brazil.

PEREIRA LIRA, Paulo H.; Brazilian economist; b. 30 Jan 1930, Rio de Janeiro; s. of José Pereira Lira and Beatriz de Almeida Pereira Lira; m. Laís Myriam Pereira Lira 1953; one s. one d.; ed. Univ. do Brasil, Rio de Janeiro, Harvard Univ.; Prof. of Micro-

economics, Nat. Faculty of Econs., Univ. Brasil 1955-64; Prof. of Monetary Theory, Nat. Council of Econs. 1958-61; Prof. of Advanced Courses, Getúlio Vargas Foundation 1961; Pres. of Banco Central do Brasil March 1974-; mem. Monetary Council; mem. Tech. Council of Inst. of Econ. and Applied Social Research; mem. Nat. Foreign Trade Council; Alt. Gov. Int. Monetary Fund, African Devt. Fund; Commdr. Order of Rio Branco; Order of Merit Tamandaré; Order of Merit Mauá. *Leisure interest:* golf. *Address:* Edifício Sede do Banco do Brasil, 6°, 70.000 Brasília, D.F., Brazil. *Telephone:* (0612) 24-1503, 24-7753.

PEREK, Luboš, RN.DR., DR.SC.; Czechoslovak astronomer; b. 26 July 1919, Prague; m. Vlasta Straková 1945; ed. Masaryk Univ., Brno, and Charles Univ., Prague. Asst. Astronomical Inst., Masaryk Univ., Brno 1946, Head 1953; Head, Stellar Dept., Astronomical Inst. of Czechoslovak Acad. of Sciences, Prague 1956, Dir. Astronomical Inst. 1968-75; Vice-Pres. Comm. of the Galactic Structure and Dynamics, Int. Astronomical Union 1961-64, Asst. Gen. Sec., Int. Astronomical Union 1964-67, Gen. Sec. 1967-70; Chief, Outer Space Affairs Division, UN Secretariat 1975-; Visiting Prof., Dearborn Observatory, Evanston, Ill. 1964; Corresp. mem. Czechoslovak Acad. of Sciences 1965-; mem. Czechoslovak Astronomical Soc., Astronomische Gesellschaft, Exec. Cttee. Int. Council of Scientific Unions 1967-70, Vice-Pres. 1968-70; Leopoldina Acad., Int. Acad. of Astronautics, Int. Inst. of Space Law; Assoc. mem. Royal Astronomical Soc. silver plaque for services to science 1969. *Publications include:* Catalogue of Galactic Planetary Nebulae (with L. Kohoutek) 1967. *Address:* c/o Astronomical Institute of Czechoslovak Academy of Sciences, Budečská 6, Prague 2, Czechoslovakia; United Nations, Room 3361, Box 20, Grand Central P.O., New York, N.Y. 10017, U.S.A. *Telephone:* 258757 (Prague).

PERELMAN, Sidney Joseph; American writer; b. 1 Feb. 1904; ed. Brown Univ.; film script writer 1930-; articles for New Yorker 1931-; collaborated with Marx Brothers on film scripts of Monkey Business 1931, Horsefeathers 1932; Best Screen Writer Award 1956; mem. Screen Writers' Guild, Dramatists' Guild. *Publications:* Dawn Ginsbergh's Revenge 1929, Parlor, Bedlam and Bath 1930, Strictly from Hunger 1937, Look Who's Talking 1940, The Dream Department 1943, Crazy Like a Fox 1944, Keep it Crisp 1946, Westward Ha! 1948, Chicken Inspector No. 23 1967, Baby, It's Cold Inside 1970, Eastward Ha 1978, The Most of S. J. Perelman. *Plays:* All Good Americans 1934, The Night Before Christmas 1941 (both with Laura Perelman), One Touch of Venus 1943 (with Ogden Nash), The Beauty Part 1963. *Address:* Erwinna, Bucks County, Pa., U.S.A.

PERERA, Liyanagé Henry Horace, B.A.; Ceylonese international official; b. 9 May 1915, Yatiyantota, Ceylon; s. of L. H. Perera and Maud Mildred Sirimane; m. Sita Trixie Senarat 1942; one s. three d.; ed. St. Benedict's Coll., Colombo, Univ. Coll. London, Univ. of Ceylon; Senior Master in Govt. and History, Ceylon 1936-59; Asst. Registrar, Aquinas Univ. Coll., Colombo 1960-61; Educ. Dir. World Fed. of UN Asscns. 1961-63, Deputy Sec.-Gen. and Educ. Dir. 1963-66, Sec.-Gen. 1966-76; Special Asst. for Asian Region, World Confed. of Orgs. of the Teaching Profession 1976-; mem. Int. Cttee. Adult Educ. (UNESCO) 1963; Pres. non-Governmental orgs. in Consultative status with UN Econ. and Social Council 1969-72, Co-ordinator for Int. Year of the Child; William Russel Award 1974, Int. Asscn. of Educators for World Peace Award; Gold Medal (Czechoslovak Soc. for Int. Relations). *Publications:* Ceylon and Indian History, Groundwork of Ceylon and World History, Ceylon Under Western Rule. *Leisure interests:* swimming, tennis, photography, stamp collecting and reading. *Address:* 22 avenue Luserna, 1203 Geneva, Switzerland. *Telephone:* 47-07-37.

PERERA, Nanayakkarapathirage Martin, D.SC., PH.D.; Ceylonese politician; b. 6 June 1905; ed. Ceylon Univ. Coll., and London School of Economics; Lecturer, Ceylon Univ. 1935-36, 1945-46; Founder-mem. Lanka Sama Samaj Party 1935, now Pres.; mem. Ceylon State Council 1936; imprisoned 1940-42, 1943-45; mem. House of Reps. (now Nat. State Assembly) 1947-, Leader of the Opposition 1947-52, 1956-60; Minister of Finance 1964-65, 1970-75; Leader, Socialist United Front April 1977-; Mayor of Colombo 1955; Pres. Ceylon Fed. of Labour, Board of Control for Cricket in Sri Lanka; Hon. D.Sc. (Ceylon). *Publications:* The New Constitution of Sri Lanka, Euro-Communism. *Leisure interests:* economics, foreign affairs, cricket. *Address:* 106 Cotta Road, Colombo 8, Sri Lanka.

PERES, Shimon; Israeli politician; b. 1923, Poland; s. of Isaac and Sara Peres; m. Sonia Gelman; two s. one d.; ed. New York Univ., Harvard Univ.; immigrated to Palestine 1934; fmr. Sec. Hano'ar Ha'oved Movt.; mem. Haganah Movt. 1947; Head of Israel Naval Service, Ministry of Defence 1948; Head of Defence Mission in U.S.A.; Deputy Dir.-Gen. of Ministry of Defence 1952-53, Dir.-Gen. 1953-59, Deputy Minister of Defence 1959-65; mem. Knesset 1959-; mem. Mapai Party 1959-65, founder mem. and Sec.-Gen. Rafi Party 1965, mem. Labour Party after merger 1968, Chair. April 1977-; Minister for Econ. Devt. in the Administered Areas and for Immigrant Absorption 1969-70, of Transport and Communications 1970-74, of Information March-June 1974, of Defence 1974-77; Acting Prime Minister April-May 1977; Leader of the Opposition June 1977-. *Publications:* The Next Step 1965, David's Sling 1970, and numerous political articles in Israeli and foreign publications. *Address:* Israel Labour Party, P.O. Box 3263, Tel-Aviv, Israel.

PERESSUTTI, Enrico, DR.ARCH.PROF.; Italian architect; b. 28 Aug. 1908; ed. School of Architecture, Milan; Architect 1932; Visiting Prof. Architectural Association School, London 1950-51, M.I.T. Cambridge, Mass. 1952, Princeton, N.J. 1953, 1954-56, 1957-59, Yale 1957, 1962; private practice with Belgiojoso and Rogers in town planning, architecture, interior decoration and industrial design; works incl. Italian Merchant Navy Pavilion at Int. Exhibition, Paris 1937; houses, factories, pavilions, health resort for children, Legnano 1939; Post Office, Rome 1939; monument in Milan cemetery 1946; U.S. Pavilion at Triennale 1951; Olivetti showroom, N.Y. 1954; Labyrinth for Young People at Triennale 1954; restoration and arrangement Castello Sforzesco Museums, Milan 1956; Torre Velasca (Milan) 1958; Canadian Pavilion (Venice Biennale); Italian Pavilion (Brussels World Exhibition) (in collaboration) 1958, Hispano Olivetti Building, Barcelona. *Publications:* Stile (in collab.) 1936, Piano Regolatore della Val d'Aosta (in collab.) 1943, Piano A.R. 1945. *Address:* Studio Architetti B.B.P.R., Via dei Chiostri 2, Milan, Italy.

PERETTI, Achille Antoine, L. EN D.; French politician; b. 13 June 1911, Ajaccio, Corsica; s. of Pierre Toussaint Peretti and Madeleine Venturini; m. Julie Papa 1935; two d.; ed. Coll. Fesch d'Ajaccio and Univ. of Montpellier; Lawyer attached to public prosecutor, Ajaccio 1935-38; Commr. of Police, Sûreté Nationale 1938-42; Deputy Dir., Sûreté Nationale (Algerian govt.) 1944; Deputy Dir.-Gen. Sûreté Nationale 1944; fmr. Prefect; Conseiller-Gen. for Corsica 1945-51, First Vice-Pres. Conseil Gen. of Corsica 1945; Mayor of Neuilly-sur-Seine 1947-; Conseiller de l'Union Française 1952-58; Deputy for the Seine, Neuilly-Puteaux 1958-67; Deputy for Hauts de Seine, Neuilly-Puteaux 1967-77; mem. Accounts and Budgets Cttee., Constitutional Council March 1977-; Vice-Pres. of Nat. Assembly 1964-69, Pres. 1969-73; many honours and awards. *Address:* 96 avenue du Roule, 92 Neuilly-sur-Seine, France.

PÉREZ DE BRICIO OLARIAGA, Carlos; Spanish industrial executive and politician; b. 1927, Madrid; ed. Escuela Técnica de Aduanas; several posts in the admin.; Spanish rep. at negotiations for Brussels Tariff Nomenclature and for accession to GATT; Asst. Dir.-Gen. Customs; Exec. Pres. Unión de Empresas y Entidades Siderúrgicas; Vice-Pres. Iron and Steel Heavy Industries Comm. 1968-69; Pres. Iron and Steel Sub-Cttee., OECD 1969; fmr. Dir.-Gen. of Siderometallurgical and Naval Industries; Minister of Industry 1975-77. *Address:* c/o Ministerio de Industria, Madrid, Spain.

PÉREZ DE CUELLAR, Javier; Peruvian diplomatist; b. 19 Jan. 1920; m.; two c.; ed. Catholic Univ., Lima; joined Foreign Ministry 1940, diplomatic service 1944; served ■ Sec. in embassies in France, U.K., Bolivia, Brazil (later Counsellor); Dir. Legal and Personnel Dept., Ministry of Foreign Affairs 1961; Amb. and Dir. of Admin., Protocol and Political Affairs 1962; Amb. to Switzerland 1964-66; Perm. Under Sec. and Sec.-Gen. Foreign Office 1966-69; Amb. to U.S.S.R. (concurrently to Poland) 1969-71; Perm. Rep. to UN 1971-75; Special Rep. of UN Sec.-Gen. in Cyprus 1975-78; Amb. to Venezuela 1978-; fmr. Prof. of Diplomatic Law, Acad. Diplomática del Perú and Prof. of Int. Relations, Acad. de Guerra Aérea del Perú; del. to UN Gen. Assembly 1946-47 and other int. confs. *Publications:* Manual de Derecho Diplomático 1964. *Address:* Embassy of Peru, Edif. Contro Andrés Bello, Torre Oeste 3°, Avda. Andrés Bello, Maripérez, Venezuela.

PÉREZ DE LA COVA, Carlos; Venezuelan diplomatist; b. 27 April 1904, Caracas; m. Rosa Ramfrez; one s. one d.; ed. Universidad Central de Venezuela and Univ. of Tulsa, Okla., U.S.A.; tech. petroleum inspector in oil fields in Maracaibo area 30-37; Dir. of Hydrocarbons, Ministry of Devt. 1937-39; special mission to U.S.A. to study technical and econ. problems related to the oil industry 1939-42; Dir. of Hydrocarbons 1942-43; Head, Tech. Dept. of Leases and Cartography, Ministry of Devt. and mem. Presidential Comm. to revise Petroleum Law of Venezuela 1943-45; Head, Lease and Lands Dept. and mem. Operating Cttee. Phillips Petroleum Co. of Venezuela 1945-50; Minister-Counsellor, U.K. 1950-52; Minister-

Counsellor for Petroleum Affairs, U.S.A. 1952-58; Minister of Mines 1958; Minister for Econ. Affairs at Venezuelan Embassy, Washington, D.C. 1961-70, also Deputy Chief of Mission; alt Dir. Inter-American Devt. Bank; Amb. to U.K. 1970-77; del. to numerous int. confs. *Leisure interests:* swimming, reading, music, theatre. *Address:* c/o Ministro de Relaciones Exteriores, Casa Amarilla, Esq Principal, Caracas, Venezuela.

PÉREZ GODOY, Gen. Ricardo Pío; Peruvian army officer and politician; b. 9 June 1905; ed. Colegio Santo Tomás de Aquino and Escuela de Oficiales del Ejército; Dir.-Gen. of Training, Peruvian Army 1956-57; Controller-Gen. of Army 1958-59; Chief of Staff of Joint Command of Armed Forces 1960-62; Prefect of Dept. of Arequipa 1952-53, 1955-56; Pres. of Mil. Junta of Govt. of Peru 1962-63; mem. Centro de Altos Estudios Históricos del Perú; now Gen. of ■ Division; numerous decorations. *Publications:* include Teoría de la Guerra y Doctrina de Guerra, La Maniobra y la Batalla. *Address:* Blasco Nuñez de Balboa 225, Miraflores, Lima, Peru.

PÉREZ-GUERRERO, Manuel, LL.D.; Venezuelan politician; b. 18 Sept. 1911; ed. Univ. of Paris and Ecole des Sciences Politiques, Paris; Mem. Economics Dept., League of Nations 1937-40, Sec. Import Control Comm., Ministry of Finance, Venezuela 1940-42; mem. Econ. and Statistics Section, Int. Labor Org. 1942-43; Ministry of Foreign Relations, Venezuela 1943-44; Dir. Div. of Co-ordination and Liaison, UN 1946-47; Minister of Finance, Venezuela 1947-48; Exec. Sec. Tech. Assistance Board, UN 1949-53, Resident Rep., Tech. Assistance Board, Egypt 1953-57, Special Rep., Tunisia and Morocco 1957-58; Dir. Non-Self-Governing Territories, UN 1958-59; Chief, Office of Co-ordination and Planning, Venezuela 1959-62; mem. Board of Dirs. Central Bank 1959-63; Resident Rep., Technical Assistance Board, UN, Algeria 1963; Minister of Mines and Hydrocarbons Dec. 1963-67; Perm. Rep. of Venezuela to UN 1967-69; Leader of UN Mission to Aden 1967; Pres. of UN Econ. and Social Council 1968-69; mem. Board of Trustees of UNITAR 1965-; Sec.-Gen. UN Conf. on Trade and Devt. (UNCTAD) 1969-74; Minister of State for Int. Econ. Affairs 1974-79; Co-Pres. Conf. on Int. Econ. Co-operation, Paris 1975-77. *Address:* Apartado 80.597, Caracas, Venezuela.

PÉREZ JIMÉNEZ, Col. Marcos; Venezuelan officer and politician; b. 1914; ed. Caracas Mil. School and Lima War Coll.; Army Chief of Staff in Acción Democrática Govt.; mem. of subsequent three-man Junta and Minister of Defence; Pres. of Venezuela Dec. 1952-58; extradited from U.S.A. to Venezuela Aug. 1963; imprisoned in Venezuela 1963-68; went to Madrid.

PÉREZ RODRIGUEZ, Carlos Andrés; Venezuelan politician; b. 27 Oct. 1922, Rubio; m. Blanca Rodríguez de Pérez; one s. five d.; ed. Univ. Central de Venezuela; Private Sec. to Pres. Rómulo Betancourt 1945; mem. Chamber of Deputies 1947-48, 1958-74; in exile 1949-58; Chief Editor La República, San José 1953-58; Minister of the Interior 1963-64; Sec.-Gen. Acción Democrática 1968; Pres. of Venezuela March 1974-. *Address:* Oficina del Presidente, Palacio de Miraflores, Caracas, Venezuela.

PÉREZ-SEGNINI, Ildegar; Venezuela government official; b. 17 March 1925, Pampán; s. of Pedro Pablo Perez and Elena Segnini de Perez; m. Yolanda Rodriguez 1952; five s.; ed. Escuela de Agricultura, Maracay, and Inst. Interamericano de Ciencias Agrícolas, Costa Rica; joined Venezuelan civil service in Ministry of Agric. 1943; Exec. Dir. Tech. Inst. of Immigration and Colonialisation 1948; Senator for Cojedes 1958, and Vice-Pres. Senate Comm. on Agriculture; Pres. Inst. of Agrarian Reform 1959, Senate Comm. of Defence 1962; Gov. State of Aragua 1964-68; Exec. Dir. for Chile, Colombia, Trinidad and Tobago, and Venezuela, of Inter-American Devt. Bank 1969-75; Exec. Dir. for Barbados, Trinidad, Tobago, and Venezuela 1972. *Address:* c/o Ministry of Foreign Affairs, Caracas, Venezuela.

PERHAM, Dame Margery, D.C.M.G., C.B.E., D.LITT., F.B.A.; British scholar of colonial affairs; b. 6 Sept. 1895, Bury, Lancs; d. of Frederick Perham and Marion Needell; ed. St. Hugh's Coll., Oxford; Asst. Lecturer in History Sheffield Univ.; in Somaliland 1922-23; Fellow and Tutor, St. Hugh's Coll., Oxford 1924-29; Rhodes Travelling Fellowship in N. America, Polynesia, Australia and Africa 1929-31, and in West Africa 1931-32; Research Fellow, St. Hugh's Coll. 1931-39; Reader in Colonial Admin. Oxford Univ. 1939-48; Dir. Oxford Univ. Inst. of Colonial Studies 1945-48; Official Fellow Nuffield Coll., Oxford 1939-63; Rockefeller Travelling Fellowship of Int. Inst. of African Languages and Culture in E. Africa and Sudan 1932; Research Lecturer in Colonial Admin., Oxford 1935-39; mem. Advisory Cttee. on Educ. in the Colonies 1939-45, of Higher Educ. Comm. and West Indies Higher Educ. Cttee. 1944, of Inter-Univ. Council on Higher Educ. Overseas 1946-67; Reith Lecturer 1961; Pres. Univs. Mission to Central Africa 1963-64; Pres. The African Studies Assn. of Britain 1963-64; Editor Colonial and Comparative Series (formerly Colonial Research Publs.) 1941-; Hon. LL.D. (St. Andrews), Hon. D.Litt. (Southampton, London, Birmingham and Cambridge); Fellow British Acad. 1961; Hon. Fellow, Nuffield and St. Hugh's Colls., Oxford, and School of Oriental and African Studies, London; Fellow American Acad. of Arts and Sciences 1969. *Publications:* Major Dane's Garden 1924, 1970, Josie Vine 1926, The Protectorates of South Africa (with Lionel Curtis) 1935, Ten Africans (Ed.) 1936, Native Administration in Nigeria 1937, Africans and British Rule 1941, African Discovery (with J. Simmons) 1943, Race and Politics in Kenya (with E. Huxley) 1944, Studies in Colonial Legislatures (Ed.) 1946-, The Economics of a Tropical Dependency (Ed.) 1946-48, The Government of Ethiopia 1948, 1969, Lugard, The Years of Adventure 1956, ed. with Mary Bull The Diaries of Lord Lugard 1889-1892 1959, 1894-5, 1898 1963, Lugard, The Years of Authority 1960, The Colonial Reckoning 1962, African Outline 1966, The Colonial Sequence 1930-1949 1967, Vol. II 1970, African Apprenticeship 1974, Travels in East Africa 1930 1975, East African Journey 1976. *Leisure interests:* gardening, animal welfare.

PERICOT GARCÍA, Luis, DR.HIST.; Spanish university professor; b. 5 Sept. 1899; ed. Univs. of Barcelona and Madrid; Asst. Faculty of Philosophy and Letters, Univ. of Barcelona 1920, Asst. Prof. 1923; Prof. Univ. of Santiago de Compostela 1925, Univ. of Valencia 1927; Prof. of Ancient Spanish History, Univ. of Barcelona 1934-55, of Prehistory 1955-, Sec. Faculty of Philosophy and Letters 1934, Vice-Dean 1951-54; mem. Higher Council of Scientific Research Regional del. Archaeological Excavations, Barcelona; Hon. Dir. Prehistoric Research Service, Prov. of Valencia; Hon. Fellow Royal Anthropological Inst. of Great Britain; Corresp. Fellow British Acad.; Pres. 4th Int. Congress of Prehistoric and Protohistoric Sciences; Martorell, Duque de Loubat and Dusseigneur Prizes; Gran Cruz Alfonso X El Sabio; Stella della Solidarietà Italiana; Chevalier Légion d'honneur. *Publications:* La Civilización Megalítica Catalana y la Cultura Pirenaica 1925, España Primitiva y Romana 1934, 1958, La América Indígena I 1936, 1962, La Cueva del Parpalló 1942, Arte Rupestre 1950, La España Primitiva 1950, Las Raíces de España 1952, Prehistoria de Marruecos 1953. *Address:* Rambla de Cataluña 89-3°-2a, Barcelona, Spain. *Telephone:* 215-1760.

PÉRIER, François (pseudonym of François Pillu); French actor; b. 10 Nov. 1919, Paris; m. Colette Boutouland 1961; one s. one d.; ed. Conservatoire Nat. d'Art Dramatique, Paris; Co-Dir. Théâtre de la Michodière, Paris 1951-65; has appeared in numerous plays including Les Jours Heureux, Les J 3, Les Mains Sales, Bobosse, Le Ciel de Lit, Gog et Magog, La Preuve par Quatre, Le Diable et le Bon Dieu, Ne réveillez pas Madame, Le Tube, Equus; *films include:* Premier Bal 1941, Lettres d'Amour 1942, Un Revenant, Le Silence est d'Or 1946, Orphée 1949, Les Evadés 1954, Gervaise 1955, Le Notti di Cabiria 1956, Bobosse 1958, Le Testament d'Orphée 1960, L'Amant de Cinq Jours 1961, La Vista 1963, Z 1968, Le Cercle Rouge 1970, Max et les Ferrailleurs 1971, Juste avant la Nuit 1971, l'Attentat 1972, Antoine et Sébastien 1973, Stavisky 1974, Dr. Françoise Gailland 1975, Police Python 357 1976; British Film Acad. Award 1956, Victoria du Cinéma Français 1957, Médaille George Méliès 1976; Officier, Ordre des Arts et des Lettres. *Address:* c/o Artmedia, 10 avenue Georges V, Paris 8e, France.

PERIN, François; Belgian politician and professor of law; b. 31 Jan. 1921, Liège; ed. Univ. of Liège; Mem. of Socialist Party 1943-64; Asst. Chef de Cabinet to Minister of Interior 1954-57; Asst. to Prof. of Public Law 1954-58; Dir. of Studies, Faculty of Law, Univ. of Liège 1958, Prof. of Constitutional Law 1967; Deputy to Nat. Assembly 1965-; Pres. Rassemblement Wallon 1968-74; Minister of Institutional Reforms 1974-76. *Publications:* La Démocratie Enrayée—Essai sur le Régime Parlementaire Belge de 1918 à 1958 1960, La Belgique au Défi: Flamands Wallons à la Recherche d'un Etat 1962, La Décision Politique en Belgique (co-author) 1965, Le Régionalisme dans l'Intégration Européenne 1969. *Address:* c/o Ministère de la Réforme des Institutions, Brussels, Belgium.

PERINAT, Luis Guillermo, Marqués de; Spanish diplomatist; b. 27 Oct. 1923, Madrid; s. of Luis Perinat and Ana Maria, Marquesa de Campo Real; m. Blanca Escriva de Romani, Marquesa de Alginet; two s. one d.; ed. Univs. of Salamanca and Valladolid; Sec., Embassy in Cairo 1949-51; Deputy Consul-Gen., New York 1954-56; Counsellor, Paris 1962-65; Perm. Sec. Spanish-American Joint Defence Cttee. 1965-70; Dir.-Gen. of North American and Far Eastern Affairs in Ministry of Foreign Affairs 1973-76; Amb. to U.K. March 1976-: Grand Cross, Order of Civil Merit, Grand Cross, Order of Military Merit, Knight Commdr., Order of Isabel La Católica, Knight Commdr., Order of Merito Aeronáutico, Commdr. of Order of George I (Greece), Officer, Order of Leopold (Belgium), Knight

Order of the Nile (Egypt). *Address:* Spanish Embassy, 24 Belgrave Square, London, SW1X 8QA, England; Calle de Prado 26, Madrid, Spain. *Telephone:* 01-235 8363 (Embassy).

PERIŠIN, Ivo, D.ECON.; Yugoslav economist and banker; b. 4 July 1925, Split; s. of Duje and Filomena Tadin Perišin; m. Magda Martinič 1949; one s. one d.; ed. Zagreb Univ.; Prof. of Econ., Zagreb Univ.: Under-Sec., Fed. Secr. for Finance; Gov. Nat. Bank of Yugoslavia (Narodna Banka Jugoslavije) 1969-72; Pres. Exec. Council, Socialist Repub. of Croatia 1972-73; Pres. Parl. 1973; Pres. Fed. Council for Devt. and Econ. Policy 1978-. Partisan Memorial Award, Order of People's Merit, Order of the Repub., Medal for Valour. *Publications:* Money and Credit Policy 1964, 1968, 1972, 1975, Money and Economic Development 1961, Economics of Yugoslavia, Inflation 1965, Financial Dictionary 1967, Money, Credit and Banking 1975, Transformation of Monetary System 1975, Money, Monetary System and Associated Work 1978. *Address:* 131 Moše Pijade, Zagreb, Yugoslavia. *Telephone:* 443221.

PERKINS, James Alfred, PH.D.: American educationist; b. 11 Oct. 1911, Philadelphia, Pa.; s. of late H. Norman Perkins and Emily Taylor; m. 1st Jean E. Bredin 1938 (died 1970), two s. three d.; m. 2nd Ruth B. Aall, four step-c.; ed. Swarthmore Coll. and Princeton Univ.; Instructor in political science, Princeton Univ. 1937-39, Asst. Dir. School of Public and Int. Affairs 1939-41; Dir. Pulp and Paper Div., O.P.A. 1941-43; Asst. to Admin., Foreign Econ. Admin. 1943-45; Vice-Pres. Swarthmore Coll. 1945-50; Exec. Assoc., Carnegie Corpn. 1950-51, Vice-Pres. 1951-63; Sec. Carnegie Foundation for Advancement of Teaching 1954-55, Vice-Pres. 1955-63; Pres. Cornell Univ. 1963-69; Deputy Chair. Research and Devt. Board, Dept. of Defense 1951-52; consultant Rand Corpn. 1958-62, Trustee 1961-71; Chair. Board of Trustees, United Negro Coll. Fund 1965-68; Chair. Pres. Johnson's Gen. Advice Comm. on foreign Assistance Programme 1965-69; Co-Chair. Int. Conf. on World Crisis in Educ. 1967; mem. various cttees. including Carnegie Comm. on Higher Educ. 1967-73, Carnegie Council on Policy Studies in Higher Educ., American Council for United Nations Univ., UNESCO's European Centre for Higher Educ.: founder and Chair. Centre for Educational Enquiry 1969; Chair. Board and Chief Exec. Officer Int. Council for Educ. Devt. 1970-; Chair. Presidential Comm. on Foreign Language and Int. Studies 1978-, Ajijic Inst. for Int. Educ. 1978-; Dir. Center for Inter-American Relations, Council on Foreign Relations, Overseas Devt. Council, Acad. for Educational Devt., Atlantic Richfield Foundation; Trustee, Aspen Inst. for Humanistic Studies; Editorial board Higher Education; Hon. LL.D., L.H.D. and numerous other hon. degrees; Gold Medal of Nat. Inst. of Social Sciences 1965. *Publications:* The University in Transition (Stafford Little Lectures) 1966, editor and contributor to Higher Education: From Autonomy to Systems 1972, The University in a Restless Decade 1972, editor and co-author of The University an Organization 1973, Is the University an Agent for Social Reform? (trans. in several languages) 1973; and articles for various journals. *Leisure interests:* music, tennis, photography. *Address:* International Council for Educational Development, 680 Fifth Avenue, New York, N.Y. 10019 (Office) The North Road, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 212-JU2-3970 (Office).

PERKINS, John H.; American banker; b. 28 Aug. 1921, Chicago; s. of Harold and Roschen Perkins; m. Len Welborn 1944; three s.; ed. Northwestern Univ., Graduate School of Banking, Univ. of Wisconsin: joined Continental Illinois Nat. Bank 1946, Asst. Cashier, Metropolitan Div. 1949, Second Vice-Pres. Bond Dept. 1952, Vice-Pres. 1956, Senior Vice-Pres. 1965, Exec. Vice-Pres. and Dir. 1968-71, vice-Chair. 1971-73, Pres. Continental Illinois Corpn. and Continental Bank March 1973-. *Leisure interests:* golf, curling. *Address:* Continental Illinois National Bank, 231 South LaSalle Street, Chicago, Ill. 60693, U.S.A. *Telephone:* (312) 828-7701 (Office).

PERKINS, Richard Sturgis; American banker; b. 27 June 1910, Boston, Mass.: s. of James H. Perkins and Katrine P. Coolidge: m. 1st Adeline Havemeyer 1935, two s. two d.; m. 2nd Audrey W. Newell 1977; ed. Hamilton Tutoring and Berkshire Preparatory Schools. Thompson Fenn & Co. 1929-32; Wood, Struthers & Co. 1932-36; Harris, Upham & Co. 1936-51; First Nat. City Bank (now Citibank, N.A.) 1951-, Chair. Exec. Cttee. 1959-71 (retd.); Dir. of various other companies. *Address:* Suite 3600, 399 Park Avenue, New York, N.Y. 10043, U.S.A. (office). *Telephone:* (212) 559-8833.

PERKINSON, Jesse Dean, B.S., M.S., PH.D.; American science administrator and biochemist; b. 24 Oct. 1914, Etowah, Tenn.; s. of Jesse Dean Perkinson Sr. and Clara Bedell Perkinson; m. Dorothy Brumby 1943; three d.; ed. Univ. of Tennessee and Univ. of Rochester; Fellow, Univ. of Rochester 1939-43; U.S. Navy Reserve 1944-46; Research Associate, Univ. of Georgia 1946-49; Senior Scientist, Oak Ridge Inst. of Nuclear Studies 1949-52; Assoc. Prof. of Biochem., Univ. of Tenn. 1952-57; Chief of Training and Educ. U.S. Atomic Energy Comm. 1957-58; Exec. Sec. Inter-American Nuclear Energy Comm. (IANEC) 1958-77; Dir. Dept. of Scientific Affairs, Org. of American States 1958-73, Special Adviser to Sec.-Gen. 1973-77; mem. U.S. Dept. of Commerce, Panel on Transfer of Tech.; mem. Advisory Board Pan American Devt. Foundation 1969-, Populaton Crisis Comm. 1967-; mem. American Chemical Soc., Radiation Research Soc.; Fellow Inst. of Chemists; Fellow Royal Soc. of Arts, Fellow American Assn. for the Advancement of Science. *Address:* RFD 2, Box 127B, Saluda, Berryville, Va. 22611, U.S.A.

PERLIS, H.R.H. The Raja of; Tuanku Syed Putra ibni al-Marhum Syed Hassan Jamalullail, D.K., S.P.M.P., D.K.(M)., D.M.N., S.M.N., D.K.(SEL), D.K.(KELANTAN), S.P.D.K., K.C.M.G.; Malaysian ruler; b. 16 Oct. 1920, Arau, Perlis: s. of Syed Hassan Bin Syed Mahmud Jamalullail and Cik Wan Teh Binti Edut; m. H.R.H. Tengku Budriah Binti al-Marhum Tengku Ismail, D.K., D.M.N., S.M.N. 1940; eight s. six d.; appointed Bakal Raja (Heir-Presumptive) of Perlis April 1938; attached to Courts in Kangar 1940; worked for year in the Land Office, Kuala Lumpur, and for year in the Magistrates' Court, Kuala Lumpur; in private business during Japanese occupation; Timbalan Yang di-Pertuan Agung (Deputy Paramount Ruler) of Malaya April-Sept 1960, Yang di-Pertuan Agung (H.M. the Paramount Ruler) Sept. 1960-Sept. 1963, of Malaysia Sept. 1963-65. *Leisure interests:* golf, tennis, fishing and shooting. *Address:* Istana Arau, Perlis; and Istana Kenangan Indah, Perlis, Malaysia. *Telephone:* 755221; 751142.

PERLMAN, Alfred Edward; American railway executive; b. 22 Nov. 1902; ed. Massachusetts Inst. Technology; with Northern Pacific Railway, Forsyth, Mont. 1923-34; Railway Div., Reconstruction Finance Corpn. 1934-35; with Chicago, Burlington and Quincy Railroad 1935-36; Engineer (Maintenance of Way) Denver and Rio Grande Western Railroad Co. 1936-41, Chief Engineer 1941-47, Gen. Man. 1947-52, Exec. Vice-Pres. 1952-54; Pres. Dir. New York Central System 1954-68; Pres. and Chief Admin. Officer Pennsylvania New York Central Transportation Co. 1968-69, Vice-Chair. 1969-70; Pres. Western Pacific Railroad Co. 1970-72, Chair., Chief Exec. Officer 1973-74, Chair. of Board 1974-76, Consultant 1976-. *Address:* 526 Mission Street, San Francisco, Calif. 94105, U.S.A.

PERLMAN, Isadore, PH.D.; American professor of chemistry; b. 12 April 1915, Milwaukee, Wisconsin; s. of Harry Perlman and Bella Karpman; m. Lee Grimblat 1937; three d.; ed. Univ. of Calif. (Berkeley). Research Assoc. Manhattan project 1942-45; Assoc. Prof. Univ. of Calif. 1945-49; Prof. of Chem., Univ. of Calif. 1949; Assoc. Dir. Lawrence Radiation Lab. 1958-; Head, Nuclear Chem. Div., Lawrence Radiation Lab. 1958-; mem. American Chemical Assn., American Physical Soc.; Calif. Section Award, American Chemical Soc. 1952; Guggenheim Fellow, Copenhagen, Denmark 1955, 1963; E. O. Lawrence Award, Atomic Energy Comm. 1960. *Publications:* numerous research papers and articles in scientific journals, especially Physical Review, Journal of Biological Chemistry, Journal of the American Chemical Soc. *Address:* 1299 Glen Avenue, Berkeley, Calif. 94708, U.S.A.

PERLMAN, Itzhak; Israeli violinist; b. 31 Aug. 1945, Tel-Aviv; ed. Tel-Aviv Acad. of Music, Juilliard School, U.S.A.; gave recitals on radio at the age of ten; went to U.S.A. 1958; studied with Ivan Galamian and Dorothy De Lay; first recital at Carnegie Hall 1963; has played with major American orchestras 1964-; has toured Europe regularly and played with major European orchestras 1966-; debut in U.K. with London Symphony Orchestra 1968; appearances at Israel Festival and most European Festivals. *Address:* c/o Harold Holt Ltd., 134 Wigmore Street, London, W1H 0DJ, England. *Telephone:* 01-935 2331.

PERLOFF, Harvey (Stephen), PH.D.; American economist and planner; b. 8 June 1915; ed. Univ. of Pennsylvania, London School of Econs. and Harvard Univ.; Economist Fed. Reserve Board 1941-43; Consultant, Govt. of Puerto Rico 1946-47, 1950-51; Prof. of Social Science, Univ. of Chicago 1947-55, Head Planning School 1951-55; Consultant Presidents' Water Resources Policy Comm. 1950, Tenn. Valley Authority 1953-54; UN Missions to Turkey and Israel 1954; Dir. Program of Regional Studies, Resources for the Future 1955-61, 1964-68; Consultant, State Dept. 1963-65; mem. Cttee. of Nine, Alliance for Progress 1961-64; Dean School of Architecture and Urban Planning U.C.L.A. 1968-; Chair. Advisory Cttee. on Urban Planning and Devt., Org. of American States; Consultant, Dept. of Housing and Urban Devt., Dept. of Health, Educ. and Welfare; mem. Comm. on the Year 2000, American Acad. of Arts and Science 1965-; mem. several planning cttees. and org. *Publications:* State and Local Finance in the National Economy

1944, Puerto Rico's Economic Future 1950, Education for Planning—City, State and Regional 1957, Regions, Resources and Economic Growth 1960, Planning and the Urban Community 1961, How a Region Grows 1963, Regional Economic Integration in the Development of Latin America 1963, Design for ■ Worldwide Study of Regional Development 1966, Issues in Urban Economics (ed. with L. Wingo) 1968, Alliance for Progress: A Social Invention in the Making 1969, Quality of the Urban Environment 1969, The Future of the U.S. Government 1971. *Address:* School of Architecture and Urban Planning, University of California, Los Angeles; 930 Manning Avenue, Los Angeles, Calif. 90024, U.S.A. *Telephone:* 213-474-0359 and 213-825-4091.

PERLOT, Enzo; Italian international civil servant; b. 17 Nov. 1933, Mezzolombardo; s. of the late Augusto and Ida (Paoli) Perlot; m. Ulla Segerstrale 1970; two c.; ed. Univ. of Rome; entered Foreign Ministry 1959; served at Presidency of the Repub. 1965-68; Consul in Munich and Counsellor in Embassy in Vienna 1968-70; served in Office of Prime Minister 1970-72; Spokesman and Dir.-Gen. of Information of EEC Comm. March 1978-. *Leisure interest:* golf. *Address:* Commission of the European Communities, 200 rue de la Loi, 1049 Brussels (Office); 242 chemin de Vleurgat, 1050 Brussels, Belgium (Home). *Telephone:* 7350040 (Office); 647 6025 (Home).

PEROL, Gilbert; French diplomatist; b. 31 May 1926, Tunis, Tunisia; s. of René Perol and Jeanne Garcin; m. Huguette Cuchet-Cheruzel 1949; three s.; ed. Univ. of Paris, Ecole Nat. d'Admin.; with Ministry of Foreign Affairs, diplomatic posts in Paris, Morocco, Ethiopia, Algeria 1953-62; with Office of Pres. de Gaulle 1963-67; Sec.-Gen. Air France 1967-74, Dir.-Gen. 1974-; Dir. France Cables et Radio 1972-, Inst. of Air Transport 1975-; Chevalier Légion d'honneur, Chevalier Ordre du Mérite. *Leisure interest:* chess. *Address:* Air France, 1 square Max Hymans, 75015 Paris (Office) 54 rue de Rome, 75008 Paris, France (Home).

PEROT, (Henry) Ross; American industrialist and philanthropist; b. 27 June 1930, Texarkana, Tex.; s. of Mr. and Mrs. Gabriel Ross Perot; m. Margot Birmingham 1956; one s. four d.; ed. U.S. Naval Acad.; U.S. Navy 1953-57; with IBM Corpn. 1957-62; formed Electronic Data Systems Corpn. 1962, now Chair. of Board and Chief Exec. Officer; Chair. Board of Visitors U.S. Naval Acad. 1970-; numerous awards and citations. *Leisure interest:* horses. *Address:* Electronic Data Systems Corpn., 1300 EDS Center, Exchange Park, Dallas, Tex. 75235, U.S.A. *Telephone:* 214-358-3171.

PEROWNE, Stewart Henry, O.B.E., K.ST.J., M.A., F.S.A.; British historian and orientalist; b. 17 June 1901, Worcs.; s. of Arthur William Thomson Perowne and Helena Frances Oldnall-Russell; ed. Haileybury Coll., Corpus Christi Coll., Cambridge, Harvard Univ.; English Lecturer, Govt. Arab Coll., Jerusalem 1927-30; Asst. Sec. Palestine Govt. 1930-32, Asst. District Commr. 1932-34; Asst. Sec., Malta 1934-37; Political Officer, Aden 1937; Arabic Programme Organizer, B.B.C. 1938; Information Officer, Aden 1939-41; Public Relations Attaché, British Embassy, Baghdad 1941-44; Oriental Counsellor 1944-47; Colonial Sec. Barbados 1947-49; Acting Gov. Mar.-Oct. 1949; Adviser, Ministry of Interior, Cyrenaica 1950-51; Adviser on Arab Affairs, U.K. Del. U.N. Gen. Assembly; discovered ancient Aziris 1951; Hon. Asst. Jerusalem Diocesan Refugee Org. 1952; designed and supervised building of seven Arab refugee villages 1952-56; mem. Church of England Council on Foreign Relations. 1965. *Publications:* The One Remains 1954, Herod the Great 1956, The Later Herods 1958, Hadrian 1960, Caesars and Saints 1962, The Pilgrim's Companion in Jerusalem and Bethlehem 1964, The Pilgrim's Companion in Roman Rome 1964, The Pilgrim's Companion in Athens 1964, Jerusalem (Famous Cities Series) 1965, The End of the Roman Republic 1968, The Siege Within the Walls—Malta 1940-43 1969, Rome 1971, The Journeys of Saint Paul 1973, The Caesars' Wives, Above Suspicion? 1974, The Archaeology of Greece and The Aegean 1974, Holy Places of Christendom 1976. *Leisure interests:* archaeology and the arts. *Address:* 44 Arminger Road, London, W12 7BB, England. *Telephone:* 01-743 8363.

PERPICH, Rudy, D.D.S.; American dentist and politician; b. 27 June 1928, Carson Lake, Minn.; s. of Anton and Mary Perpich; m. Delores (Lola) Simic 1954; one s. one d.; ed. Hibbing Junior Coll. and Marquette Univ.; served in U.S. Army 1946-48; Dental Surgeon 1954-; mem. Minnesota School Board 1956-62; mem. Minnesota State Senate 1962-70; Lieut.-Gov. of Minnesota 1970-76, Gov. of Minnesota 1976-79. *Leisure interests:* bocce ball, fishing, cross-country skiing. *Address:* Office of the Governor, 130 State Capitol, St. Paul, Minn. 55155, U.S.A. Governor's Residence, 1006 Summit Avenue, St. Paul, Minn. 55105, U.S.A. *Telephone:* (612) 296-3391 (Office); (612) 222-6504 (Residence).

PERREAULT, Germain; Canadian banker; b. 23 May 1916, Montreal; s. of Lucien and Maria Dufault Perreault; ed. Montreal; with Montreal Stock Exchange 1936; Garneau, Ostiguy, and Co. (stockbrokers) 1937-39; joined Banque Canadienne Nationale, Head Office 1939, Asst. Man., Investment Dept. 1947, Asst. Gen. Man. 1964-68, Gen. Man. 1968-71, Chief Gen. Man. 1971-72, Vice-Pres. and Chief Gen. Man. 1972-74, Exec. Vice-Pres. and Chief Gen. Man. 1974, Pres. 1974-, Chief Exec. Officer 1976-, Chair. 1978-; Société de la Caisse de Retraite de la Banque Canadienne Nationale; Dir. Compagnie Immobilière BCN Limitée, RoyNat Ltd., Domco Industries Ltd., Laurentia Mutual Assurance Co., Commerce Gen. Insurance Co., Corpn. d'Expansion Financière, Les Ensembles Urbains Limitée, Les Nouveaux Ensembles Urbains Limitée, Banque Canadienne Nationale, Banque Canadienne Nationale (Europe), York Lambton Corpn. Ltd., Sidbec Limitée Sidbec-Dosco Limitée, Régie de la Place des Arts, Montreal Museum of Fine Arts, Montreal Symphony Orch.; Gov., The Conference Board in Canada; Gov., Dir., mem. Exec. Cttee. Quebec Hosp. Service Assen. (Blue Cross); Gov. Old Exchange Arts Foundation; Chair. and Dir. Quebec Div. Canadian Arthritis and Rheumatism Soc.; mem. Montreal Board of Trade, Canadian Chamber of Commerce, la Chambre de Commerce du district de Montréal, St.-Denis Club (Dir., mem. Exec. Cttee), Mount Royal (Montreal), Laval-sur-le-lac (Laval, Quebec). *Leisure interests:* golf, music, reading. *Address:* Banque Canadienne Nationale, 500 Place d'Armes, Montreal H2Y 2W3, Quebec, Canada. *Telephone:* (514) 281-6576.

PERREAULT, Hon. Raymond Joseph; Canadian politician; b. 6 Feb. 1926, Vancouver, B.C.; s. of late Ernest Alphonse Perrault and of Florence Riebel; ed. Univ. of British Columbia; Leader of Liberal Party, B.C. 1959-68; mem. B.C. Legis. Assembly 1960; mem. House of Commons 1968-73; Del. to UN Session 1969; Parl. Sec. to Minister of Labour 1970; Parl. Sec. to Minister of Manpower and Immigration 1971-73; Asst. to Minister of Industry, Trade and Commerce in trade negotiations, Peking 1971; Rep. to ILO Convention, Geneva 1972; mem. Senate 1973-; Govt. Leader in Senate Aug. 1974-79. *Address:* The Senate, Parliament Buildings, Ottawa, Ont.; 437 Somerset Street North, Vancouver, B.C. V7N 1G4, Canada.

PERRIN, Francis Henri Jean Siegfried, D. ÈS SC.; French scientist; b. 17 Aug. 1901, Paris; s. of Jean Perrin (Nobel prize winner for Physics 1926); m. Colette Auger 1926; two s. one d.; ed. Lycée Henri IV, Paris, Ecole Normale Supérieure, Univ. of Paris; Asst., Univ. of Paris 1923, Lecturer 1933, Prof. 1935-; Visiting Prof. Columbia Univ., New York 1941-44; Rep. to Consultative Assembly, Algiers, later Paris 1944-45; Titular Prof. of Atomic Physics, Coll. de France 1946-72; High Commr. for Atomic Energy 1951-70; mem. Inst. de France (Acad. des Sciences) 1953-, Acad. d'Agric.; Dr. h.c. (Uppsala Univ.) 1952, (Columbia, New York) 1977; Grand Croix Légion d'honneur, Grand Croix Mérite national, Commandeur Palmes académiques, Economie Nationale. *Leisure interests:* sailing, skiing. *Address:* 4 rue Froidevaux, 75014 Paris, France. *Telephone:* 326-8558.

PERRIN, René Jean Louis: French marine engineer and business executive; b. 22 Aug. 1897; ed. Ecole Polytechnique; fmr. Marine Engineer and Chief Marine Engineer; Prés. d'Honneur, Compagnie Française de Raffinage; Commandeur, Légion d'honneur. *Address:* 86 avenue Raymond-Poincaré, Paris 75116, France.

PERRONE, João Consani, B.SC., M.A., D.CHEM.; Brazilian protein chemist; b. 22 Jan. 1922, Passa Quatro, Minas Gerais; s. of Raphael Perrone and Adelaide Consani Peronne; m. Moema Cruz Perrone 1952; three d.; ed. Universidade do Brasil, Rio de Janeiro, and Univ. of Calif. (Berkeley); Head of Research, Nat. Council of Research 1952-60; Assoc. Prof. of Organic and Biological Chem., Univ. of Brazil 1951-; Head, Laboratory of Protein Chem., Instituto Nacional de Tecnologia 1952-; Prof. of Protein Chemistry and Gen. Enzymology, Inst. de Química 1962-, Chair. Dept. of Biochem. 1968-72; Pres. Soc. Brasileira de Bioquímica 1972-74; mem. Brazilian Acad. of Sciences. *Leisure interests:* hunting, fishing. *Address:* Rua Senador Vergueiro, 99 Cobertura, Flamengo, Rio de Janeiro, RJ, Brazil. *Telephone:* 225-1617.

PERROUX, Prof. François, L. ÈS L., AGRÉGÉ DES SC. ECONS.; French professor; b. 19 Dec. 1903; s. of Léon Perroux and Pauline Silvent; m. Eveline Coste 1926; ed. Univ. de Lyon and Univ. de Paris ■ la Sorbonne. Rockefeller Fellow 1934; Prof., Coll. de France 1955-; Dir. of Studies, Ecole Pratique des Hautes Etudes 1955-; Founder-Dir. Inst. of Applied Math. and Econ. Sciences 1944-; Dir. Inst. of Econ. and Social Devt.; mem. Exec. Cttee. for Nat. Revenue, Exec. Council for Accountancy, Statistical Soc. of Paris, Inst. of

Statistics, Econ. and Social Council, Nat. Cttee. of Scientific Research, etc.; mem. Acad. des Sciences d'Outre-Mer, Paris, Accad. Pugliese delle Scienze, Bari, Accad.Nazionale dei Lincei, Rome, Società nazionale di lettere e belle arti, Naples, British Acad.; Foreign mem. Accad. delle scienze, Turin; Hon. mem. American Econ. Assen.; Dr. h.c. (São Paulo, Coimbra, Liège, Frankfurt-am-Main, Lisbon, Córdoba, Georgetown (Washington), Montevideo, Lima, Santiago, Ottawa). Commdr. Légion d'honneur, Commdr. Ordre de Palmes académiques, Grand Officier Ordre national du Mérite, Officier Ordre de la Couronne (Belgium), Grand Officier Ordre Nat. du Sénégal, Commendatore Ordine al Merito (Italy). *Publications include:* Les Mythes hitlériens 1936, Capitalisme et Communauté du Travail 1938, Des Mythes hitlériens à l'Europe allemande 1940, Communauté 1940, La Valeur 1943, Le Revenue National, son calcul et sa signification 1947, Les Comptes de la Nation 1949, L'Europe [illegible] rivage 1954, Le Capitalisme 1948, 6th edn. 1965, La Coexistence pacifique 1958, Economie et Société 1961, Le IVe Plan français 1962, L'Economie des jeunes nations 1962, Industrie et Création Collective 1964, Les Techniques Quantitatives de la Planification 1964, l'Entreprise et l'Economie due XXE Siècle (3 vols) 1966-67, l'Intégration du plan scientifique et du plan de développement économique et social 1967, le Progrès économique 1968, le Pain et la Parole, Indépendance de la Nation, François Perroux interroge Herbert Marcuse 1969, Masse et Classe 1972, Pouvoir et Economie 1973, Indépendance de l'économie nationale et Interdépendance des Nations 1974, Unités actives et mathématiques nouvelles-révision de la théorie de l'équilibre économique général 1975. *Address:* Institut de Sciences Mathématiques et Économiques Appliquées, 11 boulevard Sébastapol, Paris 1er (Office); 9 ter rue Paul-Féval, Paris 18e, France (Home). *Telephone:* Louvre 91-87/91-99/93-70 (Office).

PERSIA (IRAN), fmr. Shah of (*see* Pahlavi, Mohammed Reza).

PERTINI, Alessandro; Italian politician; b. 1896, Stella; trained as journalist; served as lieut. during First World War; joined Socialist Party 1918; arrested for anti-Fascist pub. 1925; imprisoned 1926; emigrated to France; arrested for political disturbances and anti-Fascist activities; returned to Italy 1927; imprisoned 1928-35; detained in political detention camp 1935-43; mem. Exec. Council, Italian Socialist Party Aug. 1943; fought against German troops at Porta San Paolo, Rome, arrested but escaped Jan. 1944; Sec. Socialist Party in Italy; organized insurrections, N. Italy April 1945; mem. Socialist Party admin. until Jan. 1948; elected to Constituent Assembly for Genoa-Florence-Naples 1946; life senator 1948, 1953, 1958, 1963, 1968; Chair. Socialist Parl. Group; elected to Chamber of Deputies for Genoa constituency; Gen. Man. Il lavoro nuovo 1945-46 and 1950-53; Deputy Speaker, Chamber of Deputies 1963-68 (Pres. 1968-76); Pres. of Italy July 1978-. *Address:* Office of the President, Rome, Italy.

PERUTZ, Max Ferdinand, C.H., PH.D., F.R.S.; British biochemist and crystallographer; b. 19 May 1914, Vienna, Austria; s. of Hugo and Adele Perutz; m. Gisela Peiser 1942; one s. one d.; ed. Theresianum, Vienna, and Univs. of Vienna and Cambridge; Dir. Medical Research Council Unit for Molecular Biology, Cavendish Laboratory, Univ. of Cambridge 1947-62; Chair. Medical Research Council Laboratory of Molecular Biology, Univ. Postgraduate Medical School, Cambridge 1962-; Reader Davy Faraday Research Laboratory, Royal Inst. 1954-68; Chair. European Molecular Biology Org. 1963-69; Fullerian Prof. Physiology at Royal Inst. 1974-77; Hon. Dr. Phil (Vienna and Edinburgh); Foreign Assoc. U.S. Nat. Acad. of Sciences 1970-; Foreign mem. Académie des Sciences 1976; shared Nobel Prize for Chem. with Dr. (later Sir) John Kendrew (*q.v.*) for researches into blood chem. 1962; Royal Medal, Royal Soc. 1971. *Publications:* Proteins and Nucleic Acids: Structure and Function 1962, various papers on the structure of proteins. *Leisure interests:* skiing, mountaineering. *Address:* MRC Laboratory of Molecular Biology, Hills Road, Cambridge; 42 Sedley Taylor Road, Cambridge, England. *Telephone:* Cambridge 48011 (Office).

PESCATORE, Gabriele; Italian university professor and civil servant; b. 21 Oct. 1916; ed. Univ. of Naples; appointed Counsellor of State 1950; Prof. of Admiralty Law, Univ. of Rome; Pres. of the Cassa del Mezzogiorno (Southern Italy Devt. Fund) 1954-; Pres. of Section, Council of State; Vice-Pres. Int. Council of Regional Economies, Mediterranean Council of Regional Economies; Knight-Commdr. of the Pius Order; Grand Cross, Knight of the Republic's Order of Merit; Gold Medal Award for Sciences and Art. *Address:* Cassa del Mezzogiorno, Piazzale Kennedy 20, Eur, Rome; Via A. Stoppani 34, Rome, Italy.

PESCATORE, Pierre, D.IUR.; Luxembourg diplomatist and professor of law; b. 20 Nov. 1919, Luxembourg; s. of Ferdinand Pescatore and Cunégonde Heuertz; m. Rosalie Margue 1948; three s. one d. Ministry of Foreign Affairs 1946-67, Sec., later mem., Del. to UN Gen. Ass. 1946-52; Legal Adviser, Min. of Foreign Affairs 1950-58; Dir. for Political Affairs, Min. of Foreign Affairs 1958-64; Minister Plenipotentiary 1959; Sec.-Gen. Ministry of Foreign Affairs 1964-67; Judge, Court of Justice of the European Communities 1967-; Prof. Law Faculty and Inst. for European Legal Studies, Univ. of Liège; Lectured Hague Acad. of Int. Law 1961; mem. Inst. de Droit International 1965-; Dr. h.c. (Nancy, Geneva and Tübingen Univs.). *Publications:* Essai sur la notion de la loi 1957, co-author Aspects juridiques du Marché commun 1958, Relations extérieures des Communautés européennes 1962, Conclusion et effet des traités internationaux selon le droit constitutionnel du G.-D. de Luxembourg 1964, La Fusion des Communautés européenes 1965, L'Union économique belgo-luxembourgeoise 1965, La Fusion des Communautés européenes au lendemain des Accords de Luxembourg 1967, Distribución de competencias y de poderes entre los Estados miembros y las Communidas Europeas 1968, Les droits de l'homme et l'intégration Europénne 1968, Personnalité internationale et politique commerciale des communautés européennes 1969; co-author Les Relations Extérieures de la communautée européenne unifiée 1969, L'Ordre juridique des Communautés Européennes 1973, The Law of Integration 1974, Introduction à la Science du droit 1978, Cours d'institutions internationales 1978. *Address:* 16 rue de la Fontaine, Luxembourg. *Telephone:* Luxembourg 4303-241 (Office); 240-44 (Home).

PESENTI, Antonio; Italian economist and politician; b. 15 Oct. 1910, Verona; s. of Romeo Pesenti and Amalia Bisoffi; m. Ghiadistri Adriana 1947; ed. Univs. of Pavia, Vienna, Berne, Paris, London School of Econs.: Lecturer Sassari Univ. 1935; active in underground anti-Fascist movement 1930-35; took part in Italian anti-Fascist Congress in Brussels 1935; arrested and sentenced to 24 years' imprisonment by special tribunal; released Sept. 1943; Under-Sec., later Minister of Finance 1944-45 Lecturer on Finance, Univ. of Rome 1945; Prof. Univ. of Parma 1948, of Pisa 1960-71, of Rome 1971; Editor Critica Economica; mem. Italian Constituent Assembly; Pres. Economic Centre for Reconstruction; mem. Parl. 1948, of Senate 1953-; Communist. *Publications:* Politica finanziaria e monetaria dell' Inghilterra 1934, La politica monetaria delle Devisenverordnungen 1933, I soggetti passivi dell'obbligazione doganale 1934, Ricostruire dalle rovine 1945, Scienza delle Finanze e diritto finanziario 1961, Manuale d'Economia Politica, 2 vols. 1970. *Leisure interests:* chess, mountaineering, rowing. *Address:* Via Nomentana 372, Rome; and 41 Via Nomentana, Istituto di Economia, Rome, Italy. *Telephone:* Rome 897530.

PESENTI, Carlo; Italian business executive; b. 15 June 1907, Alzano Sopra, Bergamo; ed. Politecnico di Milano; joined Italcementi S.p.A. 1933, Man. Dir. and Dir. Gen. 1942-, now also Pres.; mem. Board, Confederazione Generale dell' Industria Italiana; del. to OECD; Dir. Lancia, Istituto Bancario Italiano, etc.; Cavaliere del Lavoro 1962; Grande Ufficiale al merito della Repubblica Italiana. *Address:* Via G. Camozzi 124, Bergamo (Office); Via Porta Dipinta 15, Bergamo, Italy (Home).

PESMAZOGLU, John Stevens, PH.D.; Greek economist, banker and politician; b. 1 March 1918, Chios; s. of Stephanos G. Pesmazoglu and Angela Lorenzou; m. Miranda Economou 1945; two s.; ed. Varvakion High School, Athens, Univ. of Athens, and St. John's Coll., Cambridge; served in Greek Albanian campaign 1940-41 and in liberation of Greece 1944-45; research student, Cambridge 1945-49; Lecturer in Political Economy, Univ. of Athens 1950-67, Prof. 1967-70; Dir.-Gen. Greek Ministry of Co-ordination in charge of econ. devt. and external financial relations 1951-55; Econ. Adviser Bank of Greece 1955-60; Alt. Gov. for Greece, Int. Monetary Fund (IMF) 1955-67; Deputy Gov. Bank of Greece 1960-67; Leader of Greek mission to negotiations for European Free Trade Area and assen. of Greece with Common Market 1957-61; Chair. Interdepartmental Cttee. for European Co-operation 1962-65; Trustee Royal Hellenic Research Foundation 1959-68; Pres. Soc. for the Study of Greek Problems 1971-72; exiled by mil. govt. May-Dec. 1972; in prison April-Aug. 1973; Minister of Finance July-Oct. 1974; mem. Parl. Nov. 1974-; Co-Pres. Joint Parl. Comm. Greece-European Communities 1975-; Grand Commdr. Royal Order of George I; Commdr. Légion d'honneur, Grand Commdr. of the Yugoslav Standard with Gold Crown; Grand Commdr. German Order of Merit. *Publications:* Studies and articles on the int. trade cycle, economic devt. and monetary policies and [illegible] European integration with special reference to Greece's assen. with The Common Market. *Leisure interest:* painting. *Address:* 6 Neophytou Vamva Street, Athens (138), Greece. *Telephone:* 712-458.

PETER, Friedrich; Austrian politician; b. 13 July 1921, Attnang/Puchheim; s. of Friedrich and Alosia Peter; m. Anna Liselotte 1943; two d.; fmr. school teacher; founding mem. Freiheitliche

Partei Osterreichs (FPO); elected to Upper Austrian Diet 1955; Chair. Upper Austrian branch of FPÖ 1956-; Chair. Nat. Exec. of FPÖ 1958-; mem. Nationalrat 1966-; Leader FPÖ Parliamentary Group 1970-; Grosses Goldenes Ehrenzeichen, Grosses Verdienstkreuz mit Stern (Fed. Repub. of Germany). *Leisure interest:* historical-political studies. *Address:* Freiheitliche Partei Österreichs, A-1010 Vienna, Kärntnerstrasse 28, Austria. *Telephone:* 02-22/52-35-35.

PÉTER, János; Hungarian ecclesiastic and politician; b. 1910; ed. Budapest, Protestant Theological Faculty, Paris and Trinity Coll., Glasgow; Bishop Transtibiscan Synod of the Reformed Church 1949-56; Pres. Inst. of Cultural Relations 1957-58; mem. of Nat. Assembly 1953-, Deputy Speaker Dec. 1973-; First Deputy Minister for Foreign Affairs 1958-61, Minister 1961-73; mem. Cen. Cttee. Hungarian Socialist Workers' Party 1966-; Banner Order 1st degree of the Hungarian People's Repub. 1970. *Address:* Országgyűlés, H-1357 Budapest, Kossuth Lajos tér, Hungary.

PETERS, Sir Rudolph (Albert), Kt., M.C. (with Bar), M.D., F.R.S., F.R.C.P.; British university professor; b. 13 April 1889; ed. Wellington Coll., Berks., King's Coll. London, Caius Coll., Cambridge, and St. Bartholomew's Hospital, London; Benn W. Levy Student of Biochem., Cambridge 1912-13; served R.A.M.C. in First World War; fmr. Dunn Lecturer and Senior Demonstrator in Biochem., Cambridge; Whitley Prof., Oxford 1923-54, Emer. 1954-; mem. Scientific Staff, Agricultural Research Council 1954-59; Hon. Fellow of Trinity Coll., Oxford, Gonville and Caius Coll., Cambridge, Royal Soc. of Edinburgh, Royal Soc. of Medicine 1959; Pres. Int. Council of Scientific Unions 1958-61; Pres. Cambridge Philosophical Soc. 1965-67; Assoc. Sciences Naturelles, Acad. Royale Belgique 1948; Hon. mem. Biochemical Soc., Royal Soc. Medicine, Nutrition Soc.; Foreign mem. Royal Neths. Acad. 1950, Accad. Lincei, Rome; Foreign Hon. mem. American Acad. of Arts and Sciences 1950, Soc. of Biochem., Biophysics and Microbiology, Helsinki; Hon. mem. Physiological Soc. 1965, American Inst. of Nutrition 1967; fmr. mem. Belgian Royal Acad. Medicine; Hon. M.D. (Liège) 1950; Dr. h.c. (Paris); Hon. D.Sc. (Cincinnati, London, Leeds); Hon. D.M. (Amsterdam); Hon. D.Sc. (Aust. Nat. Univ.) 1961; Hon. LL.D. (Glasgow Univ.) 1963; Royal Medal of Royal Soc. 1949; Cameron Prize, Edinburgh 1949; Hopkins Medal 1959; U.S. Medal of Freedom (with Silver Palm) 1947; Nutrition Prize, British Nutrition Foundation 1972. *Publications:* Biochemical Lesions and Lethal Synthesis 1963, contribs. to scientific journals. *Address:* Department of Biochemistry, Tennis Court Road, Cambridge (Office); 3 Newnham Walk, Cambridge, England (Home). *Telephone:* 50819 (Home).

PETERSEN, Howard C., B.A., J.D., LL.D.; American lawyer and banker; b. 7 May 1910, East Chicago, Ind.; s. of Hans C. and Silvia Charles Petersen; m. Elizabeth Anna Watts 1936; one s. (deceased) one d.; ed. De-Pauw Univ., Univ. of Michigan Law School; admitted to N.Y. Bar 1935; Assoc. of law firm, Cravath, de Gersdorff, Swaine & Wood (now Cravath, Swaine and Moore) 1933-41; mem. of Nat. Emergency Cttee. of Mil. Training Camps Assn. and one of principal drafters of Burke-Wadsworth Bill, which became the Selective Service Act 1940; Counsel, Cttee. for drafting regulations under Selective Service Act 1940; Special Asst. and Exec. Asst. to Under-Sec. of War 1941-45, Special Asst. to Sec. of War Sept. 1945, Asst. Sec of War Dec. 1945-47; Exec. Vice-Pres. and Dir. Fidelity-Philadelphia Trust Co. Pa. (now The Fidelity Bank) 1947-50, Chief Exec. Officer 1950-75, Pres. 1950-66, Chair. 1966-; Nat. Finance Chair. for Eisenhower pre-convention campaign 1952; mem. President's Cttee. on Educ. Beyond the High School 1957; Special Asst. to Pres. for Trade Policy 1961-62; engaged in formulation and promotion of Trade Expansion Act 1962; negotiated conclusion of GATT tariff negotiations with EEC 1960-62; Rep. on Fed. Advisory Council 1960-63; Pres. Pa. Bankers' Assn. 1963-64; Dir. Fed. Reserve Bank of Phila. 1965-68; fmr. mem. Advisory Cttee., Export-Import Bank of the U.S., Chair. 1965-67; mem. Harvard Overseers Visiting Cttee. to Econs. Dept. 1967-73, Advisory Cttee. on Int. Monetary Reform, Int. Monetary Conf. (Pres. 1973), Exec. Cttee., Cttee. for Econ. Devt.; fmr. Pres. World Affairs Council of Phila.; mem. Council on Foreign Relations, Phila. Cttee. on Foreign Relations, Chair.; Chair. Nat. Policy Panel of United Nat. Assn. on Organization of the U.S. Govt. for Effective Participation in Int. Org. 1973; Chair. Board of Mans., Univ. Museum (Pa.); Dir. Panama Canal Co. 1952-68, Insurance Co. of N. America, Rohm and Haas Co., Greater Phila. Movement (Co-Chair. 1965-67), American Acad. Political and Social Science, Adela Investment Co., S.A. (Chair. 1969-71); mem. Assn. of Bar of N.Y., Reserve City Bankers, American Bankers Assn., American Philosophical Soc., Chair. Board of Trustees, Inst. for Advanced Study, Princeton; Trustee, Carnegie Endowment for Int. Peace, Eisenhower Exchange Fellowships, George C. Marshall Research Foundation; Hon. LL.D. (St. Joseph's Coll.) 1962; D.Sc. (Drexel Inst.) 1962; hon. degrees also from DePauw Univ. 1953 and Univ. of Pennsylvania 1974; Medal for Merit, Exceptional Civilian Service Award and Selective Service Medal 1945. *Leisure interests:* bridge, reading. *Address:* Radnor, Pennsylvania 19087; The Fidelity Bank, Broad and Walnut Sts., Philadelphia Pa. 19109, U.S.A.

PETERSEN, Sir Jeffrey Charles, K.C.M.G.; British diplomatist; b. 20 July 1920, London; s. of late Charles Petersen and of Mrs. R. M. Petersen; m. Karin Kristina Petersen 1962; one s. three d.; ed. Westcliff High School and London School of Econs., London Univ.; served Royal Navy 1939-46; joined Diplomatic Service 1948; Second Sec., Madrid 1949-50; Second Sec., later First Sec., Ankara 1951-52; First Sec., Brussels 1953-56; NATO Defence Coll. 1956-57; Foreign Office 1957-62; First Sec., Jakarta 1962-64; Counsellor, Athens 1964-68; Minister, Rio de Janeiro 1968-71; Amb. to Repub. of Korea 1971-74, to Romania 1975-76, to Sweden 1977. *Leisure interests:* painting, photography, entomology. *Address:* British Embassy, 8 Skarpögatan, 115 27 Stockholm, Sweden (Office); 32 Longmoore Street, London, S.W.1; Crofts Wood, Petham, near Canterbury, Kent, England (Home). *Telephone:* 01-834 8262; and Petham 537.

PETERSEN, Jens, DR. JUR.; German diplomatist; b. 10 Oct. 1923, Hamburg; ed. Kiel Univ.; Foreign Office, Bonn 1955; Vice-Consul, Montreal 1957; Amb. to Trinidad and Tobago 1963, to Cyprus 1966; Perm. Del. to UNESCO 1970; now Foreign Office, Bonn; mem. Exec. Board of UNESCO. *Address:* Auswärtiges Amt, Adenauer Allee, D-5300 Bonn, Federal Republic of Germany.

PETERSEN, Kristen Helveg; Danish politician; b. 29 Nov. 1909, S. Longelse, Langeland; s. of Peter L. Chr. Petersen and Sofie Augusta Petersen; m. Lilly Edith Lolk 1936; one s. two d.; ed. Skaarup Teachers Training Coll.; Prin., Youth School Odense 1940-46; Inspector of Schools 1953-57; State Adviser, Ministry of Educ. 1957-61, Minister 1961-64, Dir. of Educ. 1964-65; Chair. Co-ordinating Cttee. for Educ. 1964; Chair. Planning Cttee. for Higher Educ. 1964; Amb. in disarmament question 1966; mem. of Folketing 1964-; Vice-Chair. Educ. Cttee. of Danish Comm. for UNESCO 1958, Chair. 1960-61; mem. numerous professional bodies; Minister for Cultural Affairs, for Technical Co-operation with Developing Countries, for Disarmament Questions 1968-71; Govt Adviser in int. educational problems 1971; mem. European Parl. 1973-. *Publications:* text-books and articles on education. *Address:* Skindergade 28 III, 1159 Copenhagen K, Denmark.

PETERSEN, William E., A.B., B.S.; American banker; b. 20 Sept. 1906; ed. Columbia Coll. and Columbia School of Business; joined Irving Trust Co., N.Y.C. 1928, Vice-Pres. 1947-57, Senior Vice-Pres. 1957-60, Dir. 1959-, Pres. 1960-70, Vice-Chair. 1970-; Pres. and Dir. Irving Interamerican Bank, Irving Int. Finance Corpn., One Wall Street Corpn.; Dir. Charter New York Corpn.; Chair. Board of Trustees, Columbia Univ.; Trustee Clarkson Coll. of Technology, U.S. Council, Int. Chamber of Commerce; Dir. Westvaco Corpn.; mem. Assn of Reserve City Bankers, Cttee. for Corporate Support of American Univs.; Hon. D.H.L. (Clarkson Coll. of Technology, N.Y.). *Address:* Irving Trust Company, One Wall Street, New York, N.Y. 10015; 18 Dellwood Circle, Bronxville, New York, N.Y. 10708, U.S.A. (Home). *Telephone:* 212-487-6275 (Office).

PETERSON, Martha, PH.D.; American academic; b. 22 June 1916, Jamestown, Kan.; d. of Anton R. and Gail (French) Peterson; ed. Univ. of Kansas, Northwestern and Columbia Univs.; Instructor in Math, Univ. of Kansas 1942-46, Asst. Dean of Women 1946-52, Dean of Women 1952-56; Special Asst. to Pres., Univ. of Wisconsin 1956-63, Univ. Dean for Student Affairs 1963-67; Pres. Barnard Coll. 1967-75; mem. Exec. Board Nat. Assn. of Women Deans and Counsellors 1959-61, Pres. 1965-67; Trustee, Chatham Coll. 1965-; Chair. Exec. Cttee. American Council on Educ. 1971-; Pres. Beloit Coll. 1975-; mem. American Assn. of Univ. Administrators; mem. many other educational cttees. etc.; holds various educational and commercial directorships; several honorary degress. *Address:* Beloit College, Beloit, Wisconsin 53511, U.S.A.

PETERSON, Peter G., M.B.A.; American government official; b. 5 June 1926, Kearney, Neb.; s. of George and Venetia (née Paul) Peterson; m. Sally Hornbogen 1953; four s. one d.; ed. Nebraska State Teachers Coll., Massachusetts Inst. of Technology, Northwestern Univ. and Univ. of Chicago; Market Analyst, Market Facts Inc., Chicago 1947-49, Assoc. Dir. 1949-51, Exec. Vice-Pres. 1951-53; Dir. of Marketing Services, McCann-Erickson (advertising firm) 1953, Vice-Pres. 1954-58, Gen. Man. Chicago Office 1955-57, Dir., Asst. to Pres. co-ordinating services regional offices 1957-58; Exec. Vice-Pres. and Dir. Bell & Howell 1958-61, Pres., Chief Exec.

Officer 1963-71, Chair. of Board 1968-71; Asst. to Pres. of U.S.A. for Int. Econ. Affairs 1971-72, also Exec. Dir. Council on Int. Econ. Policy; Sec. of Commerce Jan. 1972-Jan.1973; Chair. Board Lehman Bros. Kuhn Loeb Inc. (fmrly. Lehman Bros. Inc.), New York 1973-; fmr. Dir. First Nat. Bank of Chicago, American Express Co., Illinois Bell Telephone Co.; Dir. Minnesota Mining and Mfg. Co., Federated Dept. Stores, Gen. Foods Corpn., Lehman Corpn., Black and Decker Mfg. Co., Nat. Bureau of Econ. Research, Cities Service Co., RCA Corpn.; Chair. Planning Comm. Illinois, U.S. Council of Int. Chamber of Commerce; Trustee, Council on Foreign Relations, Univ. of Chicago and Museum of Modern Art, New York. *Address:* Lehman Brothers Kuhn Loeb Incorporated, 1 William Street, New York, N.Y. 10004; and 10 Gracie Square, New York, N.Y., U.S.A.

PETERSON, Roger Tory; American ornithologist; b. 28 Aug. 1908, Jamestown, N.Y.; s. of Charles Gustav Peterson and Henrietta Bader; m. 1st Mildred Washington 1936; m. 2nd Barbara Coulter 1943; two s.; m. 3rd Virginia Westervelt 1956; ed. Nat. Acad. of Design; Art Students' League; decorative artist 1926; Science and Art Instructor, Brookline, Mass. 1931-34; engaged in bird painting and illustration of bird books 1943-; on admin. staff of Nat. Audubon Soc., Sec. 1960-; U.S. Army 1943-45; Editor Houghton Mifflin Co. Field Guide Series 1946-, Naturalist Series 1965-; Art Dir. Nat. Wildlife Fed.; Hon. D.Sc. (Franklin and Marshall Coll., Ohio State Univ., Fairfield Univ., Allegheny Coll., Wesleyan Univ. 1970, Colby Coll. 1974); Hon. D.H. (Hamilton Coll.) 1976, (Amherst Univ.) 1977; numerous medals and awards. *Publications:* Field Guide to the Birds 1934, Junior Book of Birds 1939, A Field Guide to Western Birds 1941, Birds over America 1948, How to Know the Birds 1949, Wildlife in Color 1951, A Field Guide to the Birds of Britain and Europe (with Guy Mountfort and P. A. D. Hollom) 1954, Wild America (with James Fisher) 1955, The Bird Watcher's Anthology 1957, Field Guide to Birds of Texas 1960, The Wonderful World of Birds (with James Fisher) 1964, The Birds 1963, Field Guide to Wildflowers 1968; co-author: The Audubon Guide to Attracting Birds, Field Guide to Birds of Mexico 1973; Illustrator: Birds of South Carolina, Birds of Newfoundland, Arizona and its Birdlife, Birds of Nova Scotia, Birds of Colorado, Birds of New York State 1973. *Leisure interests:* photography (still and motion pictures), travel. *Address:* Neck Road, Old Lyme, Connecticut, U.S.A. *Telephone:* 434-7800.

PETERSON, Rudolph A.; American (b. Sweden) banker; b. 6 Dec. 1904; s. of Aaron and Anna (Johannsson) Peterson; m. 1st Patricia Price 1927 (deceased), 2nd Barbara Welser Lindsay 1962; one s. one d. four step c.; ed. Univ. of Calif. Coll. of Commerce; Field Rep., successively Vice-Pres. and Gen. Man. Mexico City, Div. Operations Man., Chicago, Commercial Credit Co. 1925-36; Dist. Man. Fresno, later Vice-Pres. San Francisco, Bank of America Nat. Trust and Savings Assn. 1936-46; Pres. Allied Building Credits 1946-52; Vice-Pres. Transamerica Corpn. 1952-55; Pres. Man. Exec. Officer, Bank of Hawaii, Honolulu 1956-61; Vice-Chair. of Board of Dirs. Bank of America Nat. Trust and Savings Assn. 1961-63, Pres. 1963-69, Chair. Exec. Cttee. 1970-75, Hon. Dir. 1975–; Pres. Bank of America Corpn. 1968-69, now Dir.; Chair. Policy Cttee. and Dir. The Becker and Warburg-Paribas Group Inc. 1976–; Chair. Board, Warburg Paribas Becker Inc. 1976-; Dir. Alza Corpn., Communications Satellite Corpn., Bank of America Int., Standard Oil of Calif., Time Inc., etc.; Administrator UN Devt. Program (UNDP) 1972-75; Hon. D.Hum.Litt. (Univ. of Redlands), Hon. LL.D. (Univ. of Calif.); Commdr. Royal Order of Vasa (Sweden) 1964, Grand Cross of Civil Merit 1965, Order of Merit of Italian Repub. 1967. *Leisure interests:* gardening, fly fishing, historical reading. *Address:* United Nations Development Program, 1 United Nations Plaza, New York, N.Y. 10017 (Office); 86 Sea View, Piedmont, Calif. 94611, U.S.A. (Home). *Telephone:* (212)-754-4791 (Office); (415)-547-5461 (Home).

PETERSON, Russell Wilbur, PH.D.; American politician and chemist; b. 3 Oct. 1916, Portage, Wis.; s. of John Anton Peterson and Emma Marie Anthony; m. Eva Lillian Turner 1937; two s. two d.; ed. Portage High School and Univ. of Wisconsin; with Du Pont Company for 24 years, various research, sales and man. assignments to Dir. Research and Devt. Div. of Devt. Dept. 1968; Gov. of Del. 1969-73; Chair. Cttee. on Law Enforcement, Justice and Public Safety, Nat. Govs. Conf. 1971, Mid-Atlantic Govs. Conf. 1971; Vice-Chair. Council of State Govts. 1971; Chair. President's Nat. Advisory Comm. on Criminal Justice Standards and Goals 1971-72; Chair. of Board, Textile Inst.; Chair. Exec. Cttee., Comm. on Critical Choices for Americans 1973; Chair. Council on Environmental Quality 1973-76; Pres. and Chief Exec. Officer of New Directions, citizens' action org. focused on global problems 1976-77; Special Adviser to Aspen Inst. for Humanistic Studies 1976-77; Dir. U.S. Asscn. of Club of Rome, Population Crisis Cttee., World Wildlife Fund 1976-, Office of Technology Assessment, U.S. Congress 1978-; Hon. D.Sc. (Williams Coll.) 1976; Vrooman Award 1964, Nat. Conf. of Christians and Jews 1966 Citizenship and Brotherhood Award, Josiah Marvel Cup for Humanitarian and Civic Work, Commercial Devt. Assn. Honor Award 1971, Gold Medal Award World Wildlife Fund 1971, Golden Plate Award American Acad. of Achievement 1971, Conservationist of the Year, Nat. Wildlife Fed. 1971, Parsons Award, American Chemical Soc. 1974, Proctor Prize; Republican. *Publications:* various articles on autoxidation, new product developments, crime reduction, environmental quality, conservation and population. *Leisure interest:* nature study. *Address:* Office of Technology Assessment, Washington, D.C. 20510 (Office); 616 South Royal Street, Alexandria, Va. 22314, U.S.A. (Home).

PETERSON, Val; American diplomatist; b. 18 July 1903, Oakland, Neb.; s. of Henry C. and Hermanda Swanberg Peterson; m. Elizabeth Howells Pleak 1929; ed. Wayne State Coll. and Univ. of Nebraska; School teacher, Neb. 1925-30; Lecturer Univ. of Neb. 1930-33; Supt. of Schools, Elgin, Neb. 1933-39; Publisher of Elgin Review 1936-46; Sec. to Gov. Dwight Griswold 1941-42; war service 1942-46; Gov. of Nebraska 1946-53; Pres. Council of State Govts. 1952; Chair. Missouri River States Cttee. 1948-52; Admin. Asst. to Pres. Eisenhower 1953; Federal Civil Defense Administrator; Amb. to Denmark 1957-61; various exec. posts McDonald Co. 1961-65; Amb. to Finland 1969-73; Dist. Prof. of Political Science and Political Affairs, Wayne State Coll., Neb. 1973-; Trustee, Exec. Cttee., People to People Inc., Grand Cross of Dannebrog; many hon. degrees. *Leisure interest:* flying single-engine aircraft and helicopters. *Address:* 710E 7th Street, Wayne, Neb. 68787, U.S.A.

PETERSON, Walter; American politician and real estate executive; b. 19 Sept. 1922, Nashua, New Hampshire; s. of Walter and Helen Reed Peterson; m. Dorothy Donovan 1949; one s. one d.; ed. New Hampton School, Coll. of William and Mary, Univ. of New Hampshire, Dartmouth; formed real estate firm 'The Petersons' with father and brother 1948, now Realtor and Treasurer; elected to New Hampshire House of Reps. 1961, Majority Leader 1963, Speaker of the House 1965-68; Gov. of New Hampshire Jan. 1969-73; Partner Petersons Inc. 1973-; Pres. Franklin Pierce Coll., New Hampshire 1976-; Republican. *Address:* Franklin Pierce College, New Hampshire 03461 (Office); East Mountain Road, Peterborough, N.H. 03458, U.S.A. (Home). *Telephone:* 603-924-3259.

PETIT, Daniel; French financial official; b. 4 March 1918; ed. Lycée de Rheims and Faculty of Law, Univ. of Paris; Auditor Court of Accounts 1945; Chef de Cabinet of Ministry of Armed Forces 1948, Vice-Pres. of Council 1948; Referendary Councillor 1950; Tech. Councillor to Cabinet 1953-54, to Ministry of Finance 1954-55; Gen. Sec. La Bourse de Paris (Stock Exchange) 1962-76; Pres. Soc. Interprofessionnelle pour la Compensation des Valeurs Mobilières (SICOVAM) 1976-. *Address:* 52 Champs Elysées, Paris 8e; and 19 avenue de Tourville, Paris 7e, France.

PETIT, Eugène Pierre (see Claudius-Petit, Eugène Pierre).

PETIT, Pierre; French composer; b. 21 April 1922; ed. Lycée Louis-le-Grand, Université de Paris à la Sorbonne and Conservatoire de Paris; Head of Course, Conservatoire de Paris 1950; Dir. of Light Music, Office de Radiodiffusion et Télévision Française (ORTF) 1960-64, Dir. of Musical Productions, ORTF 1964-70, Chamber Music 1970-; Dir.-Gen. Ecole Normale de Musique de Paris 1963; Music Critic of Parisien-Liberé; mem. Gov. Council Conservatoire de Paris; Officier des Arts et Lettres, Ordre nationale du Mérite, Officier de l'Ordre du Cèdre du Liban; Premier Grand Prix de Rome 1946. *Compositions include:* Suite for four 'cellos 1945, Zadig (ballet) 1948, Ciné-Bijou (ballet) 1952, Feu Rouge, Feu Vert 1954, Concerto for piano and orchestra 1956, Concerto for organ and orchestra 1960, Furia Italiana 1960, Concerto for two guitars and orchestra 1965. *Publications:* Verdi 1957, Ravel 1970. *Address:* Radio-France, 116 avenue du Président Kennedy, 75016 Paris; 59 avenue Mozart, 75016 Paris, France.

PETIT, Roland; French dancer and choreographer; b. 13 Jan. 1924; m. Zizi Jeanmaire (*q.v.*) 1954; ed. Paris Opera Ballet School; Premier Danseur Paris Opera 1940-44; founded Les Vendredis de la Danse 1944, Les Ballets de Champs-Elysées 1945, Les Ballets de Paris 1948; Dir. Paris Opera Ballet 1970; founded Les Ballets de Marseilles; Chevalier Légion d'honneur, des Arts et des Lettres. *Works include:* Le Rossignol et la Rose, Le Jeune Homme et la Mort, Les Demoiselles de la Nuit, Deuil en Vingtquatre Heures, Le Loup, Cyrano de Bergerac, Carmen, Les Forains, La Belle au Bois Dormant, Hans Christian Andersen, Folies Bergères, L'Eloge de la Folie, Paradise Lost, Pelléas et Mélisande, Les Intermittences du Coeur 1974, La Symphonie Fantastique 1975. *Address:* 69 rue de Lille, 75007 Paris, France.

PETIT DE MURAT-REGÚNAGA, Ulyses Raúl; Argentine writer; b. 28 Jan. 1907, Buenos Aires; s. of Ulises Petit de Murat and Fedra Regúnaga; m. Martha King Forelius 1932; one s. one d.; ed. Colegio Nacional de San Isidro; fmr. journalist; Nat. Prize for Literature 1942, 1943, 1944; Nat. Prize for Cinematography 1943, 1944; Pres. Argentine Soc. of Writers; Pres. Consejo Cine de la Sociedad General de Autores de la Argentina, Great Prize Nat. Inst. of Arts 1970. *Works: Poetry:* Las Islas (Civic Prize of Buenos Aires) 1935, Conmemoraciones 1929, Rostros 1931, Marea de Lágrimas 1937, Aprendizaje de la Soledad 1942, Las Manos Separadas 1951, Agonías de la memoria 1977; Plays: La Novia de Arena 1945, Un Espejo para la Santa, Un Patricio del 80X, Ultimo Lugar 1964, Estampas de la Tierra Purpúrea 1966, Yrigoyen 1974; *Films:* Prisioneros de la Tierra 1940, La Guerra Gaucha 1942, Todo un Hombre 1943, Donde Mueren las Palabras 1946, Su Mejor Alumno (First Prize, Argentine Acad. of Cinematography) 1944, Tierra del Fuego (First Prize, Argentine Acad. of Cinematography) 1949, Suburbio 1950, La Orquidea 1951, Reto a la Vida 1953, Mulata 1953, La Entrega 1954, La Duda 1954, En Cuerpo y Alma 1954, Juventud Desenfrenada 1956, Esposas Infieles 1957, Magia Negra, Manicomio, La Rebelión de los Adolescentes 1958, El Dinero de Dios 1959, El Romance de un Gaucho (Prize, Best Script, Instituto Nacional de Cine) 1962, El Perseguidor 1965, Al Diablo con este Cura 1967, Martin Fierro 1969, El Santo de la Espada 1970, Güemes 1971, Mi hijo Ceferino Namuncurá 1972, Andrea 1973, Las Procesadas, Los Años Infames 1974; *Novels:* El Balcón Hacia La Muerte, La Vida Fanática, El Miserable Amor, La Noche de Buenos Aires 1963; *Essays:* Genio y Figura de Benito Lynch, Carta ■ Los Jovenes del año 2000 1968, La Noche de Mi Ciudad 1979. *Address:* Avenida Federico Lacroze 2764, Buenos Aires, Argentina. *Telephone:* 771-0468.

PETITPIERRE, Max, Docteur en droit; Swiss barrister and notary; b. 26 Feb. 1899, Neuchâtel; s. of Edouard Ferdinand Petitpierre and Mathilde Vuithier; m. Antoinette de Rougemont 1928; three s. one d.; ed. Univ. of Neuchâtel, Zürich and Munich; Barrister 1922; Doctor of Law 1924; Notary 1925; Prof. of Private Int. Law and of Comparative Civil Law in Law faculty of Univ. of Neuchâtel 1926-31 and 1938-44; Pres. of the Swiss Chamber of Watchmakers 1942-44; Deputy to Council of States 1942-44; mem. Fed. Council, Head of Fed. Political (Foreign Affairs) Dept. 1945-61; Pres. Swiss Confed. 1950, 1955 and 1960; mem. Cttee. Int. Red. Cross 1961-74; Radical. *Publications:* La reconnaissance et l'exécution des jugements civils étrangers en Suisse 1925, Le droit applicable à la succession des étrangers domiciliés en Suisse 1929, Les conventions conclues par la Suisse avec l'Allemagne, l'Autriche et la Tchécoslovaquie concernant la reconnaissance et l'exécution des jugements civils 1933, Droit international privé de la Suisse. *Leisure interests:* reading, walking. *Address:* Port-Roulant 3a, CH-2003 Neuchâtel, Switzerland. *Telephone:* 038-25-14-34.

PETRASSI, Goffredo; Italian composer; b. 16 July 1904, Zagarolo; s. of Eliseo Petrassi and Erminia Calzoletti; m. Rosetta Acerbi 1962; one d.; ed. Conservatorio S. Cecilia, Rome; Supt. Teatro Fenice, Venice 1937-40; Pres. Int. Society for Contemporary Music 1954-56; now Prof. of Composition, Accad. S. Cecilia. *Works include:* orchestral: Partita 1932, First Concerto 1933, Second Concerto 1951, Récréation Concertante (Third Concerto) 1953, Fourth Concerto 1954, Fifth Concerto 1955, Invenzione Concertata 1957, Quartet 1957; operas and ballets: Follia di Orlando 1943, Ritratto di don Chisciotte 1945, Il Cordovano 1948, Morte dell'Aria 1950; choral works: Salmo IX 1936, Magnificat 1940, Coro di Morti 1941, Noche Oscura 1951, Mottetti 1965; voice and orchestra Quattro Inni Sacre 1942; chamber music: Serenata 1958, Trio 1959, Suoni Notturni 1959, Propos d'Alain 1960, Concerto Flauto 1960, Seconda Serenata-Trio 1962, Settimo Concerto 1964, Estri 1966-67, Beatitudines 1968, Ottetto di Ottori 1968, Souffle 1969, Ottavo Concerto 1970-72, Elogio 1971, Nunc 1971, Ala 1972, Orationes Christi 1975, Alias 1977, Grand Septuor 1978. *Address:* Via Ferdinando di Savoia 3, 00196 Rome, Italy. *Telephone:* 3605028.

PETRÉN, (Bror Erik) Gustaf, D.IUR.; Swedish judge; b. 5 Dec. 1917, Lund; s. of Prof. G. Petrén and Torborg Sylwan; m. Mary Anne Jakobsson 1944; one s. four d.; ed. Lund Cathedral School and Univ. of Lund; Asst. Judge Town Court of Stockholm 1945-51, Asst. Judge, Court of Appeal (Stockholm) 1952-60, Ordinary Judge 1961-71; Deputy Ombudsman 1968-71, Ombudsman 1971; Judge Supreme Administrative Court 1972-; Asst. Prof. Stockholm Univ. 1949-; mem. Int. Comm. of Jurists 1969-, Chair. Swedish Section 1959-74; Sec.-Gen. Nordic Council (Swedish Section) 1952-71; Chair. Rättsfonden 1972-, Swedish Civil Rights Movement 1974-, Protection of Water Foundation 1975-; Knight Commdr. 1st Class Order of Polar Star; Knight Commdr. (2nd Class) Icelandic Falcon and Polish Merit. *Publications:* Compulsion in Public Law 1949, Ed. Basic Laws of Sweden 1971, Pres Legislation 1978. *Leisure interests:* riding philately. *Address:* Styrmansgatan 5, Stockholm, Sweden. *Telephone:* 08-673301.

PETRIC, Jakša; Yugoslav diplomatist; b. 11 June 1922, Postire; m.; two c.; joined Ministry of Foreign Affairs 1948; Envoy to Albania 1949; Deputy Perm. Rep. to UN 1949; Dir. Anglo-American Dept., Ministry of Foreign Affairs 1951; Minister, London 1952-56; Dir. for Asia and for Information, Ministry of Foreign Affairs 1956-58; Amb. to Czechoslovakia 1958-61; Dir. Dept. for N. and S. America and U.K. 1961-63; Sec. Comm. for Int. Co-operation and Relations of Socialist Alliance of Working People of Yugoslavia 1963-65; Amb. to Romania 1965-69; Asst. Fed. Sec. for Foreign Affairs 1969-72, Deputy Fed. Sec. 1972-74; Perm. Rep. to UN 1974-78. *Address:* c/o Ministry of Foreign Affairs, Belgrade, Yugoslavia.

PETRILLI, Giuseppe; Italian administrator; b. 24 March 1913, Naples; m. Angela Roberti 1939; one s. two d.; ed. Univ. of Rome; Pres. Inst. Nat. d'Assurances contre les maladies 1950-58; mem. Council of Economy and Work; mem. EEC Comm., Pres. Social Affairs Section 1958-60; Pres. Inst. for Industrial Reconstruction (IRI) 1960-79; Pres. Italian Council of European Movement 1964-, Sec. Gen. of the European Christian Democratic Union (UEDC) 1978; Cavaliere del Lavoro 1965. *Address:* Via Giosuè Borsi, 3, Rome, Italy.

PETROSIAN, Suren Martirosovich; Soviet worker and politician; b. 23 May 1925, Sevan Tsovagyugh; s. of Martiros Aleksandrovich Petrosian and Anahit Markarovna Varakian; m. Emma Oganesovna Shakhverdian 1950; one s. one d.; ed. secondary school; worker at S. M. Kirov plant, Yerevan 1940-43, foreman 1948-; Soviet Army service 1943-48; mem. CPSU 1951-; mem. Cen. Cttee. of Armenian CP; Deputy to U.S.S.R. Supreme Soviet (Soviet of Nationalities) 1962-70; Vice-Chair. of Soviet of Nationalities 1966-70; Hero of Socialist Labour, Order of Lenin, Hammer and Sickle Gold Medal etc. *Leisure interest:* fiction. *Address:* S. M. Kirov Plant, Yerevan, Armenian S.S.R., U.S.S.R.

PETROSIAN, Tigran Vartanovich, M.SC. (PHIL.); Soviet chess-player; b. 17 June 1929, Tbilisi; ed. Teachers' Coll., Yerevan; Chess Champion of Tbilisi 1947, later Champion of Georgia and Armenia; Moscow City Champion 1951; Grand Master 1952, Postgraduate Student in Philosophy, Teachers' Coll. Yerevan 1962-68; Int. Grand Master; Champion of U.S.S.R. 1959, 1961, 1969; World Chess Champion 1963-69; mem. of Soviet team which took first place in Chess Olympics 1958-74 and European Championships 1957-73; mem. Presidium of Chess Fed. of U.S.S.R. 1958-; Editor 64 1968-; various decorations. *Publication:* Chess and Philosophy 1968. *Address:* U.S.S.R. Committee for Physical Culture and Sports, 4 Skaterny pereulok, Moscow, U.S.S.R.

PETROV, Boris Nikolayevich; Soviet power engineer; b. 11 March 1913, Smolensk; ed. Moscow Power Engineering Inst.; Assoc. Inst. of Automation and Telemechanics, U.S.S.R. Acad. of Sciences 1939; Instructor Moscow Aviation Inst. 1944-, Prof. 1948-; corresp. mem. U.S.S.R. Acad. of Sciences 1953-60, mem. 1960-; mem. Int. Acad. of Astronautics 1971; Dept. Head Inst. of Automation and Telemechanics, U.S.S.R. Acad. of Sciences 1960-; Chief Editor Technical Cybernetics Series, U.S.S.R. Acad. of Sciences Bulletin; Hero of Socialist Labour, Lenin Prize 1966, U.S.S.R. State Prize 1972, Order of October Revolution, Order of Lenin (four times) and other awards. *Publications:* The Construction and Conversion of Structural Systems 1945, The Principle of Invariance and Conditions for its Application in Calculating Linear and Non-Linear Systems 1960, On Evaluation of Oscillation Processes in Complex Non-Linear Systems with Different Original Deviations 1964. *Address:* Institute of Automation and Telemechanics, U.S.S.R. Academy of Sciences, Leninsky Prospekt 14, Moscow V-71, U.S.S.R.

PETROV, Georgiy Ivanovich; Soviet hydro-aeromechanic; b. 31 May 1912, Pinega Arkangelsk region; ed. Moscow Univ.; Research Insts. 1935-; Prof. Moscow Univ. 1953-; corresp. mem. U.S.S.R. Acad. of Sciences 1953-58; mem. 1958-; Bureau mem. Dept. of Technical Science, U.S.S.R. Acad. of Sciences 1960-; Dir. Inst. of Space Research of U.S.S.R. Acad of Sciences 1965-73, Dept. Head 1973-; Editor-in-Chief Izvestiya Akademii Nauk S.S.S.R., Seriya Mekhanika (Bulletin of the U.S.S.R. Acad. of Sciences, Mechanics Series); Hero of Socialist Labour 1961; State Prize 1949, Order of Lenin (three times) and other decorations. *Publications:* The Propagation of Oscillations in a Viscous Liquid, and the Inception of Turbulence 1938, The Application of Galerkin's Method to the Problem of Flow Stability in a Viscous Liquid 1940, Estimation of Accuracy of Approximate Calculation of Proper Value by Galerkin's Method 1957. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

PETROV, Vladimir Mikhailovich; Soviet trade corporation official; b. 20 July 1922; ed. Industrial Inst. of the Urals and Acad. of Foreign Trade; Soviet Baltic Fleet 1939-42; foundry worker 1940-42; Asst. Dir., later Dir., Electrical Eng. Office, Mashinoimport (mining, electrical, railway goods, etc.) 1949-51; other posts, Mashinoimport, then Mashinoexport 1951-55; Asst. Soviet Trade Rep. in Yugoslavia 1956-59; Soviet Trade Rep. in Iraq 1959-61; Chair. Autoexport (automobiles) 1961-; mem. CPSU; several decorations. *Address:* V/O Autoexport, Ministry of Foreign Trade, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

PETROVSKY, Boris Vasiliyevich; Soviet surgeon; b. 27 June 1908, Essentuki; ed. First Moscow Univ.; physician at various hospitals 1930-50; mem. CPSU 1942-; Head of Chair of Surgery, Second Moscow Inst. of Medicine 1951-56; Head of Chair of Hospital Surgery, First Moscow Medical Inst., and Dir. Inst. of Clinical and Experimental Surgery 1956-; Minister of Health of U.S.S.R. 1965-; Deputy to U.S.S.R. Supreme Soviet 1962-; Cand. mem. Cen. Cttee. of CPSU 1966-; mem. U.S.S.R. Acad. of Medical Sciences 1957-; mem. U.S.S.R. Acad. of Sciences 1966-; Honoured Scientific Worker of R.S.F.S.R., Lenin Prize, Hero of Socialist Labour 1968, Order of Lenin (four times), Order of October Revolution, "Hammer and Sickle" Gold Medal and other awards. Main works: has studied problems of blood transfusion, oncology, surgery of vessels and organs of thoracic cavity, surgical treatment of congenital and acquired heart diseases, kidney transplant. *Publications:* Drip Transfusion of Blood and Blood-Substitute Compounds 1948, Surgical Treatment of Vascular Wounds 1949, Surgical Treatment of Carcinoma of the Oesophagus and Cardia 1950, Blood Transfusion in Surgery 1954, Surgery of Mediastinum 1960, Surgery of patent arterial duct 1963, Cardiac aneurysms 1965, Resection & plastic repair of bronchi 1966, Prosthetic replacement of heart valves 1966, Surgery of diaphragm 1966, Oesophageal diverticuli 1968, Surgery for renovascular hypertension 1968, Selected lectures in clinical surgery 1968, Kidney transplantation 1969, Surgery of aortic arch branches 1970, Surgery of peripheral vessels 1970, Atlas of thoracic surgery 1973-74, Surgical hepatology 1972. *Address:* U.S.S.R. Ministry of Health, Rakhmanovsky pereulok 3, Moscow, U.S.S.R.

PETRY, Heinz, DIPL. ING; German industrial executive; b. 12 Jan. 1919, Rheinhausen; s. of Heinrich Petry and Elise Petry (née Maas); m. Liselotte Petry (née Gebauer) 1945; two s. one d.; ed. Berlin Technical Coll., Stuttgart Univ.; construction engineer in dredger mfg., Krupp Industrieund Stahlbau, Rheinhausen 1946, Deputy Head of Dept. 1950, given proxy of firm 1961, Head of Dept. 1962, Deputy mem. of Man. Board 1965, mem. 1966, Spokesman 1973; mem. Man. Board, Friedrich Krupp GmbH, Essén 1974-, Deputy Chair. 1975-76, Chair. 1976-. *Leisure interests:* hunting, golf, films. *Address:* Altendorfer Strasse 103, 4300 Essen 1, Federal Republic of Germany. *Telephone:* (0201) 188-2100.

PETRYANOV-SOKOLOV, Igor Vasiliyevich; Soviet physical chemist; b. 18 June 1907, Bolshaya Yakshen, Gorky region; ed. Moscow Univ.; Prof. Moscow Chemical Technological Inst. 1947-; Assoc. Karpov Physico-chemical Inst., U.S.S.R. Acad. of Sciences 1930-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-66, mem. 1966-; Chief Editor Khimiya i zhizn 1964-; Order of Lenin (three times); Hero of Socialist Labour 1971; State Prize 1941; Lenin Prize 1966. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

PETTIJOHN, Francis J., A.B., A.M., PH.D.; American geologist; b. 20 June 1904, Waterford, Wis; s. of John J. Pettijohn and Elizabeth Shenkenberg; m. Dorothy M. Bracken 1930; one s. two d.; ed. Univ. of Minnesota; Instructor (Part-time), Macalester Coll., St. Paul, Minn. 1924-25; Instructor, Oberlin Coll. 1925-29 (on leave 1927-29), Univ. of Minn. 1928-29; Instructor, Univ. of Chicago 1929-31, Asst. Prof. 1931-39, Assoc. Prof. 1939-46, Prof. 1946-52; Prof. Johns Hopkins Univ. 1952-73, Emer. Prof. 1973-, Chair. Dept. of Geology 1963-68; Geologist, U.S. Geological Survey 1943-53; Editor Journal of Geology 1947-52; Consultant Shell Devt. Co. 1953-63; mem. Nat. Acad. of Sciences; Corresp. mem. Geological Soc., Finland; Hon. mem. Soc. of Econ. Paleontologists and Mineralogists (Pres. 1955-56); Fellow, American Acad. of Arts and Sciences; Hon. Fellow, Geological Soc. of India; L.H.D. h.c. (Johns Hopkins Univ.) 1978; Twenhofel Medal 1974; Wollaston Medal, Geological Soc., London; Penrose Medal, Geological Soc. of America 1975. *Publications:* Manual of Sedimentary Petrography (with W. C. Krumbein) 1938, Sedimentary Rocks, Paleocurrents and Basin Analysis (with P. E. Potter) 1963, Atlas and Glossary of Primary Sedimentary Structures (with P. E. Potter) 1964, Sand and Sandstone (with P. E. Potter and Raymond Siever) 1973. *Leisure interests:* gardening, camping. *Address:* Department of Earth and Planetary Sciences, The Johns Hopkins University, Baltimore, Md. 21218 (Office); 512 Woodbine Avenue, Towson, Md. 21204, U.S.A. (Home). *Telephone:* 301-338-7044 (Office).

PETUKHOV, Valentin Afanasiyevich; Soviet nuclear physicist; b. 1907; ed. Leningrad Polytechnic Inst.; Teacher of Physics Kharkov Physical Inst. 1934-54; Deputy Dir. High Energy Lab. Joint Inst. Nuclear Research, Dubna 1954-; work in cosmology and on accelerators; Lenin Prize for his part in creating 10,000 million electron volt syncrophasotron. *Address:* Joint Institute of Nuclear Research, Dubna, Moscow Region, U.S.S.R.

PEUGEOT, Rodolphe; French businessman; b. 2 April 1902, Selancourt; s. of Robert Peugeot and Jeanne Japy; m. Clémence Seyrig; one s. three d.; ed. Lycées Janson-de-Sailly, Saint-Louis, Paris, Harvard Business School, Boston; fmr. Pres. and Man. Dir., now Dir. Société Peugeot et Cie., Société Comtoise de Participation; Dir. Soc. des Automobiles Peugeot, Ets. Peugeot Frères and of a number of other concerns; Officier Légion d'honneur, Croix de guerre, Médaille de la Résistance. *Address:* 5 rue de Beaulieu, 25700 Valentigney, France.

PEUGEOT, Roland; French motor-car executive; b. 20 March 1926; ed. Lycées Janson-de-Sailly and Saint-Louis, Paris, and Harvard Business School, Mass., U.S.A.; Pres. Etablissements Peugeot Frères; Pres. du Conseil de Surveillance de P.S.A. Peugeot-Citroen; Vice-Pres. du Conseil de Surveillance d'Automobiles Peugeot; Dir. of subsidiaries and other companies. *Address:* 170 avenue Victor-Hugo, Paris 16e, France.

PEVSNER, Sir Nikolaus, Kt., C.B.E., PH.D., F.S.A., F.R.I.B.A., F.B.A.; British university teacher and art historian; b. 30 Jan. 1902, Leipzig, Germany; s. of Hugo and Annie Pevsner; m. Karola Kurlbaum 1924 (died 1963); two s. one d.; ed. St. Thomas's School, Leipzig and Univs. of Leipzig, Berlin, Munich and Frankfurt; Asst. Keeper Dresden Art Gallery 1924-28; Lecturer, Göttingen Univ. 1928-33; Prof. of Art History, Birkbeck Coll. Univ.of London 1944-69, Emer. Prof. 1969-; Slade Prof. of Fine Art, Univ. of Cambridge 1949-55; Chair. Victorian Soc. 1964-76, Pres. 1976-; Hon. Fellow of St. John's Coll. 1967-; Hon. mem. American Acad. of Arts and Sciences; Hon. Academician, Accademia di Belle Arti, Venice Hon. Fellow, Royal Scottish Acad., Akad. der Wissenschaften, Göttingen; Henry Elias Howland Memorial Prize, Yale Univ. 1963; Royal Gold Medal for Architecture 1967; Thomas Jefferson Medal, Univ. of Virginia 1974; Albert Medal, Royal Soc. of Arts 1975; Wolfson Literary Award 1976; 10 hon. degrees. *Publications:* The Baroque Architecture of Leipzig (in German) 1928, Italian Painting from the End of the Renaissance to the End of the Rococo (in German) 1927-30, Pioneers of Modern Design 1936 (revised and enlarged 1960), An Enquiry into Industrial Art in England 1937, Academies of Art, Past and Present 1940, German Baroque Sculpture (with S. Sitwell and A. Ayscough) 1938, An Outline of European Architecture 1943, 1963, The Buildings of England 1951-74 (46 vols.), The Englishness of English Art 1956, The Planning of the Elizabethan Country House 1961, Studies in Art, Architecture and Design (2 vols.) 1968, Some Architectural Writers of the Nineteenth Century 1972, A History of Building Types 1976, etc. *Address:* 2 Wildwood Terrace, North End, London, N.W.3, England. *Telephone:* 01-455 9369.

PEYREFITTE, Alain; French diplomatist, politician and writer; b. 26 Aug. 1925, Najac, Aveyron; s. of Jean and Augustine (Roux) Peyrefitte; m. Monique Luton 1948; five c.; ed. Lycée de Montpellier, Univ. of Montpellier, Paris (Sorbonne), Ecole Normale Supérieure, Ecole Nationale d'Administration; Sec. Bonn 1949-52; Chargé, quai d'Orsay and Lecturer, Ecole Nationale d'Administration 1952-54; Consul-Gen., Cracow 1954-56; Deputy Dir. of European Orgs. 1956-58; Counsellor of Foreign Affairs 1958; Deputy 1958-; Mayor of Provins 1965-; Rep. Assembly European Parl. and UN Gen. Assembly 1959-62; Sec. of State to Prime Minister (Information) April 1962, Minister for Repatriates Sept. 1962; Minister for Information 1962-66; Minister for Scientific Research and Atomic Questions 1966-67; Minister of Educ. 1967-68; Chair. Comm. of Cultural Educ. and Social Affairs 1968-72; Rep. at UN Gen. Assembly 1969-71; Sec.-Gen. UDR (Gaullist Party) 1972-73; Minister of Admin. Reform and Planning 1973-74, of Culture and the Environment March-May 1974, of Justice March 1977-; mem. Acad. Française 1977-; Chevalier Légion d'honneur, Commdr. des Palmes académiques. *Publications:* Rue d'Ulm, Le sentiment de confiance, Les roseaux froissés, Le mythe de Pénélope, Faut-il partager l'Algérie?, Quand la Chine s'éveillera, Le mal français. *Leisure interests:* skiing, water skiing, riding. *Address:* Ministère de Justice, Paris, France.

PEYREFITTE, (Pierre) Roger, B.A.; French author; b. 17 Aug. 1907, Castres (Tarn); s. of Jean Peyrefitte and Eugénie Jamme; ed. Coll. d'Ardouane (Hérault), du Caousou (Toulouse), Lycée (Foix), Toulouse Univ., Ecole des Sciences Politiques, Paris; joined Diplomatic Service 1931; Attaché, Ministry of Foreign Affairs 1931-33, 1938-40; Sec. Athens 1933-38; resigned 1940; re-instated 1943, mem.

Del. of French Govt. in occupied France 1943-44; dismissed 1945; re-instated by judgement of Council of State 1962; judgement cancelled 1978. *Publications:* Les amitiés particulières (Prix Théophraste Renaudot) 1944-45, Mademoiselle de Murville 1946, Le prince des neiges 1947, L'oracle 1948, Les amours singulières 1949, La mort d'une mère 1950, Les ambassades 1951, Du Vésuve à l'Etna 1952, La fin des ambassades 1953, Les clés de St. Pierre 1955, Jeunes proies 1956, Chevaliers de Malte 1957, L'exilé de Capri 1959, Le spectateur nocturne 1960, Les fils de la lumière 1961, La nature du prince 1963, Les Juifs 1965, Notre amour 1967, Les Américains 1968, Des Français 1970, La Coloquinte 1971, Manouche 1972, La muse garçonnière 1973, Tableaux de chasse ou la vie extraordinaire de Fernand Legros 1976, Propos secrets 1977, La jeunesse d'Alexandre 1977, L'enfant de coeur 1978. *Leisure interests:* walking, collection of antiques. *Address:* 9 avenue du Maréchal Maunoury, 75016 Paris, France.

PEYTON, Rt. Hon. John Wynne William, P.C., M.P.; British politician; b. 13 Feb. 1919, London; m. Mary Constance Wyndham 1966; one s. one d.; ed. Eton Coll. and Trinity Coll. Oxford; called to the Bar 1945; Conservative M.P. for Yeovil 1951-; Parl. Sec., Ministry of Power 1962-64; Minister for Transport Industries 1970-74; Shadow Leader of Commons 1974-76; Opposition Spokesman for Agric. 1976-79; Chair. Texas Instruments 1974-. *Address:* 6 Temple West Mews, London, S.E.11, also The Old Malt House, Hinton St. George, Somerset, England (Homes).

PFAFFMANN, Carl, B.A., PH.B., M.SC., PH.D., D.SC.; American physiological psychologist; b. 27 May 1913, New York City; s. of Charles Pfaffmann and Anna Haaker Pffaffmann; m. Louise Brooks Pfaffmann; two s. (one deceased) one d.; ed. Brown, Oxford and Cambridge Univs.; Research Assoc., Johnson Foundation, Univ. of Pennsylvania 1939-40; Lieut. to Commdr., Aviation Psychologist, U.S. Naval Reserve 1942-45; Asst. Prof. to Prof., Brown Univ., Providence, R.I. 1945-65; Vice-Pres. Rockefeller Univ. 1965-78, Prof. 1965-; Visiting Prof., Psychology, Yale Univ., Visiting Prof., Harvard Univ. 1962-63; Fellow American Psychological Assn.; mem. American Physiological Soc., Soc. of Experimental Psychology, Nat. Acad. of Sciences, American Philosophical Soc., etc.; mem. Board of Fellows, Brown Univ. Corpn.; Howard Crosby Warren Medal of Soc. of Experimental Psychologists 1960, Distinguished Scientific Contribution Award of American Psychological Assn. 1963, Kenneth Craik Research Award of St. John's Coll., Cambridge. *Publications:* Gustatory Afferent Impulses 1941, Taste and Smell, Handbook of Experimental Psychology 1951, The Afferent Code for Sensory Quality (in American Psychologist) 1959, The Sense of Taste (in Handbook of Physiology Vol. 1) 1959, The Pleasures of Sensation (in Psychological Review) 1960, De Gustibus (in American Psychologist) 1965, Behavioral Sciences in Basic Research and National Goals (A Report to the Cttee. on Science Astronautics, U.S. House of Representatives) 1965, Olfaction and Taste 3rd Int. Symposium 1969. *Leisure interests:* skiing, sailing. *Address:* The Rockefeller University, New York, N.Y. 10021; 1 Gracie Terrace, Apt. 6-B, New York, N.Y. 10028; and Pond Meadow Road, Box 175, Killingworth, Conn., U.S.A. *Telephone:* 212-360-1594 (Office); 212-744-8270 (N.Y.); 203-669-8248 (Conn.).

PFLEIDERER, Otto, DR.SC.POL.; German banker; b. 17 Jan. 1904; s. of Dr. Alfred Pfleiderer and Angelika Henning; m. Dr. Hildegard Hoffmann 1937 (died 1970); ed. Univs. of Tübingen, Hamburg and Kiel; Ministry of Finance, Württemberg-Baden 1945-48, Pres. Landeszentralbank von Württemberg-Baden 1948-52, von Baden-Württemberg 1953-57, in Baden-Württemberg, Stuttgart 1957-72; mem. Board of Dirs. Bank deutscher Länder 1948-57, Deutsche Bundesbank 1957-72; Hon. Prof., Univ. of Heidelberg 1947-; Alt. mem. Man. Board European Payments Union, Paris 1950-51; mem. Scientific Advisory Board, Fed. Ministry of Econs., Bonn 1965-; Exec. Dir. IMF, Washington 1952-53. *Publications:* Die Staatswirtschaft und das Sozialprodukt 1930, Pfund, Yen und Dollar in der Weltwirtschaftskrise 1937, Währungsordnung und europäische Integration 1964. *Address:* Rosengartenstrasse 88, D-7 Stuttgart 1, Federal Republic of Germany. *Telephone:* (0711) 42-52-33.

PFLIMLIN, Pierre, DR. EN D.; French politician; b. 5 Feb. 1907; ed. Lycée de Mulhouse, Institut Catholique, Paris, and Strasbourg Univ.; mem. of Bar, Strasbourg 1933-64; served French Army 1939-40; Deputy for Bas-Rhin 1946-67; Under-Sec. for Nat. Economy 1946; Minister of Agric. 1947-49, 1950-51, for Foreign Econ. Relations 1951-52, for Overseas Territories 1952-53, of Finance 1955-56 and 1957-58; Prime Minister May 1958; Minister of State, de Gaulle Cabinet, June 1958-Jan. 1959; Pres. Mouvement Républican Populaire 1956-59; Co-Pres. "Centre Démocratique" Group, Nat. Ass. 1962-63; Mayor of Strasbourg 1959-; Minister of Co-operation, April-May 1962; Pres. of Assembly of Council of Europe 1963-66; Pres. Consortium of Rhine Navigation 1971-. *Publications:* Perspectives sur notre economie, L'industrie de Mulhouse, La structure économique du IIIe Reich, L'Alsace—Destin et volonté (with René Uhrich), L'Europe communautaire (with Raymond Legrand-Lane). *Address:* 24 avenue de la Paix, 67000 Strasbourg, France.

PHAM HUNG; Vietnamese politician; b. 1912, Vinh Long Province; joined Revolutionary Youth League under Ho Chi Minh in 20s; founding mem. Indochinese CP 1930, mem. Lao Dong (Viet-Nam Workers') Party (now CP of Viet-Nam) 1951-; imprisoned for 15 years by French and sentenced to death, later reprieved- mem. Cen. Cttee. Lao Dong Party with special responsibilities for activities in the South 1951-75; Sec. People's Revolutionary Party, South Viet-Nam 1962-75; Commdr. and Chief Pol. Officer, Liberation Army; Chair. Cen. Office of South Viet-Nam (COSVN); Deputy Prime Minister, Socialist Repub. of Viet-Nam July 1976-; mem. Nat. Defence Council July 1976-. *Address:* Communist Party of Viet-Nam, 1C Bd. Hoang van Thu, Hanoi, Viet-Nam.

PHAM VAN DONG; Vietnamese politician; b. 1 March 1906, Quang Nam Province (S. Viet-Nam); close collaborator of Ho Chi Minh; underground communist worker since 1925; imprisoned by French authorities for seven years; upon release in 1936, resumed revolutionary activities; a founder of the Revolutionary League for the Independence of Viet-Nam (the Viet-Minh) 1941; mem. Lao Dong (Viet-Nam Workers') Party (now CP of Viet-Nam) 1951-; Minister for Foreign Affairs, Dem. Repub. of Viet-Nam 1954-61, Prime Minister 1955-76; Prime Minister, Socialist Repub. of Viet-Nam July 1976-. *Address:* Office of the Prime Minister, Hanoi, Viet-Nam.

PHAM VAN KY; Vietnamese writer; b. 1916; ed. Secondary School, Hanoi, and Univ. of Paris; went to France 1939; prepared thesis on religion for the Institut des Hautes Etudes Chinoises; Grand Prix du Roman, Académie Française 1961. *Publications:* Fleurs de jade (poems), L'homme de nulle part (short stories) 1946, Frères de sang (novel) 1947, Celui qui régnera (novel) 1954, Les yeux courroucés (novel) 1958, Les contemporains (novel) 1959, Perdre la demeure (novel) 1961, Poème sur Soie (poems) 1961, Des Femmes Assises Çà et Là (novel) 1964, Mémoires d'un Eunuque (novel) 1966, Le Rideau de Pluie (play) 1974. *Address:* 62/2 avenue du Général de Gaulle, Maisons-Alfort 94700, France. *Telephone:* 368-22-94.

PHAN HUY QUAT; Vietnamese physician and politician; b. 1 July 1909, Ha Tinh, Central Viet-Nam; s. of Dr. Phan Huy Tung and Tran Thi My Xuan; m. Dang Thi Ly 1931; three s. three d.; ed. Hanoi Medical School, and Univ. de Paris; Assoc. Prof. of Biology Hanoi Medical School 1938-43; founder mem. and 1st Pres. Hanoi Univ. Student Assn. 1934; Cabinet Dir. Prime Minister's Office 1945, Minister of Educ. 1949, Minister of Nat. Defence 1950, 1953-54; Sec.-Gen. Nat. Popular Front 1952; Acting Premier 1954; imprisoned 1960-63; Minister of Foreign Affairs, Repub. of Viet-Nam Feb.-Oct. 1964; Prime Minister Feb.-June 1965; mem. Vietnam Anti-Tuberculosis Assn. 1956, Chair. 1969; Vice-Chair. Viet-Nam Medical Assn. 1960-63; mem. Advisory Cttee. Int. League for Rights of Man 1965. *Leisure interest:* gardening (orchids). *Address:* 179 Hien Vaong Street, Ho Chi Minh City, Viet-Nam.

PHANOS, Titos; Cypriot politician; b. 23 Jan. 1929, Nicosia, Cyprus; s. of Ioannides Phanos and Maria Georgallidou; m. Maro Phierou 1958; one s. two d.; ed. Pancyprian Gymnasium, Nicosia, Middle Temple, London; called to Bar 1951; practised law 1952-66; mem. EOKA fighters union during Cyprus independence campaign; mem. of Cttee. of Human Rights of the Nicosia Bar Assn.; arrested by British administration and served 16 months as political detainee 1956-58; mem. Consultative Body to Archbishop Makarios 1959-60; mem. House of Reps. for Nicosia 1960-66; Parl. Spokesman (Floor Leader) of pro-govt. Patriotic Front 1963-66; mem. Consultative Assembly of Council of Europe 1963-65; Minister of Communications and Works 1966-70; Amb. to Belgium, Head of Cypriot Mission to European Communities 1971-, concurrently to Luxembourg and Netherlands 1973. *Leisure interests:* music, chess, sports. *Address:* Embassy of Cyprus, 83-85 rue de la Loi, 1040 Brussels, Belgium.

PHILIP, Kjeld, DR.ECON.; Danish economist and politician; b. 3 April 1912, Copenhagen; s. of Louis and Carli Sörine Philip; m. Inger Margrethe Nygaard, M.P., 1938; two d.; ed. Copenhagen Univ.; Instructor Aarhus Univ. 1937-43 and Prof. of Social Politics and Public Finance 1943-49, Prof. of Econs. and Social Politics, Stockholm Univ. 1949-51; Prof. of Econs., Univ. of Copenhagen 1951-57, 1964, 1966-69; Minister of Commerce 1957-60, of Finance 1960-61, of Econ. Affairs 1961-64; Chair. Co-ordination Cttee. 1955; Dir. Inst. of History and Econs. 1956-60; UN Senior Econ. Adviser to Prime Minister of Somalia 1965; Chair. Comm. on East African Co-operation 1965-67, Danish Board for Co-operation with devel-

oping countries 1968-73, mem. 1975-; Industrialization Fund for Developing Countries 1968-; mem. Board of Dirs. Den Danske Bank 1975-; Adviser to ILO 1969-71, UNECA 1972. *Publications:* En fremstilling og analyse af Den danske Kriselovgivning 1931-38, 1939, Bidrag til Laeren om Forbindelsen mellem det offentliges Finanspolitik og den økonomiske Aktivitet 1942, Staten og Fattigdommen 1947, La Política Financiera y la Actividad Económica, Madrid 1949, Intergovernmental Fiscal Relations 1953, Skattepolitik 1955, Kenya 1974. *Address:* Rungstedvej 91, DK-2960 Rungsted Kyst; (summer address) Horsemose, DK-6973 Örnhöj, Denmark. *Telephone:* (02)-863848.

PHILIPPE, André, DR. EN D.; Luxembourg diplomatist; b. 28 June 1926, Luxembourg; Barrister Luxembourg 1951-52; joined Diplomatic Service 1952; Deputy Dir. of Political Affairs, Ministry of Foreign Affairs 1952-54; Deputy Perm. Rep. of Luxembourg to NATO 1954-61, to OECD 1959-61; Dir. of Protocol and Legal Adviser, Ministry of Foreign Affairs 1961-68; Amb. and Perm. Rep. to UN and Consul-Gen., New York 1968-72; Amb. to U.K. and Perm. Rep. to Council of Western European Union (concurrently Amb. to Ireland and Iceland) 1972-78, to France 1978-, also accredited to OECD 1978-; Commdr. Order of Adolphe Nassau (Luxembourg), also holds numerous foreign decorations including Hon. G.C.V.O. 1972. *Address:* Embassy of Luxembourg, avenue Rapp 33, Paris 7e, France.

PHILIPPE, H.E. Cardinal Pierre Paul, TH.D.; French ecclesiastic; b. 16 April 1905, Paris; s. of Louis and Suzanne Adam; ed. Lycée Hoche, Versailles, and Faculty of Theology, Le Saulchoir; Prof. Univ. of St. Thomas, Rome 1935-54; Commissary-Gen. Holy Office 1955-59; Sec. Sacred Congregation of Religions 1959-67; Sec. Sacred Congregation for the Doctrine of the Faith 1967-73; Cardinal and Prefect of the Sacred Congregation for the Eastern Churches 1973-; Légion d'honneur; Patron of Order; Grand Cross Order of Malta; Grand Cross, Order of the Holy Sepulchre, Grand Cross Order of the Cedar, Dominican. *Publications:* Le rôle de l'amitié dans la vie chrétienne selon Saint Thomas 1938, La Très Sainte Vierge et le Sacerdoce 1946, Les fins de la vie religieuse 1961, Le renouveau de la vie religieuse 1964. *Address:* Via della Concilizaione 34, Rome, Italy. *Telephone:* 698 4662.

PHILIPS, Sir Cyril Henry, Kt., M.A., PH.D., D.LITT., LL.D.; British professor of oriental history; b. 27 Dec. 1912. Worcester; s. of William H. and Mary E. Philips; m; 1st Dorcas Rose 1939 (deceased); one s. (deceased) one d.; m. 2nd Joan Rosemary Marshall 1975; ed. Rock Ferry High School and Univs. of Liverpool and London; Asst. Lecturer in Indian History, School of Oriental and African Studies 1936, Lecturer 1939, Senior Lecturer 1945; war service 1940-46; Prof. of Oriental History and Head Dept. of History, S.O.A.S. 1946-, Dir. S.O.A.S. 1957-76; Vice-Chancellor, Univ. of London 1972-76; Chair. Royal Comm. on Criminal Procedure 1978-; mem. Council, Chinese Univ. of Hong Kong 1965-, Inter-University Council for Higher Educ. Overseas 1967-; Bishop Chavasse Prize, Gladstone Memorial Fellow, Frewen Lord Prize (Royal Empire Soc.), Alexander Prize (Royal Historical Soc.), Sir Percy Sykes Memorial Medal. *Publications:* The East India Company 1940, 1961, Handbook of Oriental History 1951, 1960, Correspondence of David Scott 1951, Historians of India, Pakistan and Ceylon 1961, The Evolution of India and Pakistan 1962, Politics and Society in India 1963, Fort William India House Correspondence 1964, History of the School of Oriental and African Studies 1917-1967 1967, The Partition of India 1970, The Correspondence of Lord William Bentinck 1828-35 1977. *Address:* School of Oriental and African Studies, Malet Street, London, WC1E 7HP, England.

PHILIPS, Frederick Jacques; Netherlands engineer, businessman and welfare worker; 16 April 1905, Eindhoven; s. of Dr. A. F. Philips and A. H. E. M. Philips-de Jongh; m. Sylvia van Lennep 1929; three s. four d.; ed. Technical Univ. of Delft; joined N. V. Philips' Gloeilampenfabrieken ■■ Works Engineer 1930; Man. 1931, in control of mechanical workshops; Deputy Dir. 1936 and Dir. 1939, Vice Pres. of the Board of Man. 1946-61, Pres. 1961-71, Chair. Supervisory Board 1971-77; fmr. Chair Board of Dirs. NKF Groep BV; Dr. H.C. (Louvain); Companion of the Order of the Dutch Lion, Commdr. of the Order of Saint Gregory the Great, Cedar of Lebanon, Officer Cross of the French Légion d'honneur, Commdr. of the Dennebrog Order, Grand Officer, Order of Merit (Argentine) and numerous honours from other countries. *Publication:* Forty-five Years with Philips 1978. *Address:* De Wielewaal, Eindhoven, Netherlands. *Telephone:* 512780 (Home).

PHILLIPS, David Chilton, PH.D., F.R.S.; British university professor; b. 7 March 1924, Ellesmere, Shropshire; only s. of late Charles Harry Phillips and Edith Harriet Phillips; m. Diana Kathleen Hutchinson 1960; one d.; ed. Ellesmere primary schools, Oswestry High School for Boys, and Univ. Coll. Cardiff (Univ. of Wales); Sub-Lieut., R.N.V.R. 1944-47; Post-Doctoral Fellow, Nat. Research Labs., Ottawa, Canada 1951-53, Research Officer 1953-55; Research Worker, Davy Faraday Research Lab., Royal Institution, London 1956-66; Prof. of Molecular Biophysics, Univ. of Oxford 1966-; Fellow of Corpus Christi Coll. Oxford 1966-; Vice-Pres. Royal Soc. 1972-73, 1976-, Biological Sec. Royal Soc. 1976-; mem. Council European Molecular Biology Org. 1972-78, Medical Research Council 1974-78; Foreign Hon. mem. American Acad. of Arts and Sciences 1968; Hon. D.Sc. (Leicester) 1974, (Wales) 1975, (Chicago) 1977; Feldberg Prize 1968; CIBA Medal 1971; Royal Medal (Royal Soc.) 1975. *Publications:* scientific papers and review articles in various journals: Probability Distribution of X-Ray Intensities 1950, Crystal Structures of Ephedrine and Acridine 1950, Estimation of X-Ray Intensities 1954, Myoglobin Structure 1958, 1961, Effects of X-Irradiation 1962, Structure of Lysozyme 1965, Activity of Lysozyme 1966, Protein Crystal Chemistry 1968, Crystalline Proteins 1969, Vertebrate Lysozymes 1972, Structure of Triose Phosphate Isomerase 1975. *Leisure interests:* reading history and talking to children. *Address:* Laboratory of Molecular Biophysics, Department of Zoology, South Parks Road, Oxford, OX1 3PS; 3 Fairlawn End, Upper Wolvercote, Oxford, OX2 8AR, England (Home). *Telephone:* (0865) 56789 (Laboratory); (0865) 55828 (Home).

PHILLIPS, Harry, A.B., LL.B.; American judge; b. 28 July, 1909, Watertown, Tenn.; s. of Norman C. and Bernice N. Phillips; m. Virginia Major 1936; four d.; ed. Cumberland Univ.; admitted Tenn. State Bar 1933; practised law, Watertown Tenn. 1933-37; mem. House of Reps., Tenn. Legislature 1935-57; Asst. Attorney-Gen. of Tenn. 1937-43, 1946-50; Naval Officer 1943-46; partner, Phillips, Gullett & Steele, Nashville, Tenn. 1950-63; Exec. Sec. Tenn. Code Comm. 1953-63; Judge U.S. Court of Appeals 1963-, Chief Judge (6th Circuit) 1969-; Hon. LL.D. (Cumberland Univ.) 1951; Award of Merit, Bar Assn. of Tenn. 1960. *Publication:* (co-author) History of the 6th Circuit 1976. *Leisure interests:* gardening, forestry. *Address:* U.S. Courthouse, Nashville, Tenn. 37203; U.S. Post Office and Courthouse, Cincinnati, Ohio; 2809 Wimbledon Road, Nashville, Tenn. 37215, U.S.A. (Home).

PHILLIPS, Sir Horace, K.C.M.G.; British diplomatist; b. 31 May 1917, Glasgow, Scotland; s. of Samuel and Polly Phillips; m. Idina Morgan 1944; one s. one d.; ed. Hillhead High School, Glasgow; Inland, Revenue Dept., London 1935-39; Indian Army 1940-47; Consul, Persia and Afghanistan 1947-50; Foreign Office 1951-53; Chargé d'Affaires, Saudi Arabia 1953-56; Aden Protectorate Sec. 1956-60; Counsellor, Teheran 1960-64; Deputy Political Resident, Persian Gulf 1964-66; Amb. to Indonesia 1966-68; British High Commr. in Tanzania 1968-72; Amb. to Turkey 1973-77 (retd.); Resident Rep. in Iran of Taylor Woodrow Group 1978; Hon. LL.D. (Glasgow); Order of the Taj (Iran). *Leisure interests:* Greece, languages, swimming, long-distance driving (especially in the Near and Middle East). *Address:* 34A Sheridan Road, Merton Park, London, SW19 3HP, England. *Telephone:* 01-542 3836/1780.

PHILLIPS, Rev. Canon John Bertram, M.A.; British writer and broadcaster; b. 16 Sept. 1906, Barnes, London; s. of late Philip William Phillips, O.B.E., and late Emily Maud (Powell); m. Vera May Jones 1939; one d.; ed. Emanuel School, London, and Emmanuel Coll. and Ridley Hall, Cambridge; Asst. Master Sherborne Prep. School for Boys 1927-28; Curate St. John's, Penge, London 1930-33; Freelance journalist and Editor Sec. Pathfinder Press 1934-36; Curate St. Margaret's, Lee, London 1936-40, Vicar of Good Shepherd, Lee 1940-44; Vicar of St. John's, Redhill 1945-55; trans., writer, lecturer, broadcaster and preacher 1955-; Wiccamical Prebendary of Exceit, Chichester Cathedral 1957-60; Canon of Salisbury Cathedral 1964-; D.D. (Lambeth) 1966, Hon. D.Litt. (Exeter) 1970. *Publications:* Letters to Young Churches 1947, Your God is too Small 1952, The Gospels in Modern English 1952, Making Men Whole 1952, Plain Christianity 1954, When God Was Man 1954, Appointment with God 1954, The Young Church in Action 1955, New Testament Christianity 1956, The Church under the Cross 1956, St. Luke's Life of Christ 1956, The Book of Revelation 1957, Is God at Home? 1957, The New Testament in Modern English 1958, A Man Called Jesus 1959, God our Contemporary 1960, Good News 1963, Four Prophets 1963, Ring of Truth 1967, Through the Year with J. B. Phillips 1974, The Newborn Christian 1978. *Leisure interests:* painting, reading, listening to music, tape-recording. *Address:* Golden Cap, 17 Gannetts Park, Swanage, Dorset, England.

PHILLIPS, John Fleetwood Stewart, C.M.G., M.A.; British diplomatist; b. 16 Dec. 1917; ed. Worcester Coll., Oxford; H.M. Forces 1939-45; Sudan political service 1945-54; First Sec., Foreign Office 1955-56; Oriental Sec., Libya 1957-60; H.M. Consul-Gen., Muscat 1960-63; Counsellor, Amman 1963-66; Imperial Defence

Coll. 1967; Deputy High Commr., Cyprus 1968; Amb. to People's Democratic Repub. of Yemen Feb. 1969-70, to Jordan 1970-72, to Sudan 1973-77; Fellow, Royal Commonwealth Soc., British Museum rep. on Board of Trustees, Palestine Archaeological Museum, Jerusalem 1966. *Address:* Southwood, Gordon Road, Horsham, Sussex, England.

PHILLIPS, John Frederick Vicars, D.SC., F.R.S.E., F.R.S.S.AFR.; South African ecologist, conservationist and agriculturist; b. 15 March 1899. Grahamstown; s. of the late John Roberts Phillips; m. Jeanie Daleigh Turnbull 1923; two s. three d.; ed. Dale Coll., King William's Town, South Africa, and Univ. of Edinburgh; initiated research into indigenous forests, Knysna, S. Africa 1922-27; ecologist and later Deputy Dir. Tsetse Research, Tanganyika Territory; Prof. of Botany, Univ. of Witwatersrand, Johannesburg 1931; Gen. Man., later Joint Gen. Man. and Chief Agricultural Adviser to Overseas Food Corpn. (East African Groundnuts Scheme) 1948; Consultant in Agric. to FAO and IBRD; British Gov. Econ. Survey Mission of High Comm. Territories, Southern Africa 1959; Chair. Cttee. of Enquiry into African Educ., Nyasaland 1961; Prof. of Agric., Univ. Coll., Ghana and Adviser in Agricultural Educ. to Ghana Ministry of Educ. 1952-60; Chair. Cttee. reporting on devt. of econ. resources in Southern Rhodesia 1960-62; co-ordinating agro-econ. aspects of the Tugela Basin 1963-68; Visiting Prof. Univ. of Pa. 1966; Leader of UN Survey Team, Socio-economy of Hill Tribes, Thailand 1967; Pres. South African Assen. of Advanced Science 1969; Consultant in applied ecology, Loxton, Hunting and Assocs. 1969-75; Hon. Senior Research Fellow in applied ecology, Univ. of Natal 1970-; Consultant applied ecology, Anglo-American Corpn., S. Africa 1973-; Corresp. mem. Sociedade de Estudos Moçambique; Hon. D.Sc. (Rhodes Univ.). *Publications:* The Forests of George, Knysna and The Zitzikama: A Brief History of their Management, 1778-1939, Agriculture and Ecology in Africa 1959, Kwame Nkrumah and the Future of Africa 1960, Development of Agriculture and Forestry in the Tropics: Patterns, Problems and Promise 1961, Agricultural and Related Development of the Tugela Basin and its Influent Surrounds: A Study in Sub-tropical Africa 1973. *Leisure interests:* wild life studies, African history. *Address:* Blue Bird Farm, P.O. B. 6, Hekpoort, 2800, South Africa. *Telephone:* Hekpoort 1631 (Home).

PHILLIPS, Sir John Grant, K.B.E., B.ECON.; Australian banker (retd.); b. 13 March 1911, Sydney; s. of O. Phillips; m. Mary Willmott Debenham 1935; two s. two d.; ed. Univ. of Sydney; Research Officer N.S.W. Retail Traders' Assen. 1932-35; Econ. Asst., Royal Comm. on Monetary and Banking System 1936-37; Econ. Dept., Commonwealth Bank of Australia 1937-51; Leader, Australian Del. to 6th Conf. GATT, Geneva 1951; Investment Adviser, Commonwealth Bank of Australia 1954-60; Deputy Gov. and Deputy Chair. of Board, Reserve Bank of Australia 1960-68, Gov. and Chair. 1968-75; mem. Council, Macquarie Univ. 1967-79; mem. Board, Howard Florey Inst. of Experimental Physiology and Medicine 1971-; mem. Advisory Cttee., Australian Birthright Movement, Sydney Branch 1971-; mem. Board, Lend Lease Corpn. Ltd. 1976-; Chair. Australian Statistics Advisory Council 1976-. *Leisure interests:* lawn bowls, swimming, contract bridge. *Address:* 2/25 Marshall Street, Manly, N.S.W. 2095, Australia. *Telephone:* 977-3151.

PHILLIPS, O. Alfredo; Mexican international finance official; b. 2 Sept. 1935, Mexico; s. of Howard S. Phillips and Dolores Olmedo; m. Maureen Greene 1960; two s. one d.; ed. Univs. of Mexico and London and American Univ.; Deputy Chief of Dept. of Banks and Chief, Dept. of Economic and Fiscal Planning, Secr. of Finance and Public Credit, Mexico 1960-65; Senior Loan Officer, Inter-American Devt. Bank, 1965-66; Alternate Exec. Dir., IMF 1966-68, Exec. Dir. 1968-70; Prof. of Trade Cycles, School of Business Admin., Univ. Iberoamericana Mexico 1961-63; Sec., Group of Latin American Govs. to the IMF and IBRD 1968-70; Man. Banco de México 1971-, Deputy Dir. 1975-; Treas. Bd. of Dirs. of Latin-American Bank for Foreign Trade 1978-, Vice-Chair. Deputies of Group of 24 1978-79, Chair. 1979-. *Leisure interests:* golf, swimming. *Address:* Banco de México, S.A., Avenida 5 de Mayo 2, Apdo. 98 *bis*, México 1, D.F., Mexico. *Telephone:* 512-47-38 (Office).

PHILLIPS, Lieut.-Gen. Samuel Cochran, M.S.; American air force officer; b. 19 Feb. 1921, Springville, Ariz.; s. of Clarence A. Phillips and Mabel Cochran; m. Betty Ann Brown 1942; three d.; ed. Cheyenne High School, Wyoming, Univs. of Wyoming and Michigan and Air Command and Staff School; commissioned 2nd Lieut. in U.S. Infantry 1942; with 364th Fighter Group, Eighth Air Force, England 1944-45; European Theatre H.Q., Frankfurt, Germany 1945-47; Dir. of Operations, 1st AACS Wing, Langley Barracks Va. July 1947-48; Dir. of Operations, Armament Lab., then B-52 Project Officer, then Chief of Air Defense Missiles Div. of Eng. Div., Air Material Command, Wright Patterson Air Force Barracks, Ohio 1950-56; Chief of Logistics and Dir. of Material for Strategic Air Command's 7th Air Div., England 1956-59; Dir. Minuteman Systems Program, H.Q., Ballistic Systems Div., Air Systems Command, Los Angeles, Calif. 1963-64; Deputy Program Dir. for Apollo, Nat. Aeronautics and Space Admin. (NASA), Washington, D.C. Jan.-Oct. 1964, Apollo Program Dir., NASA 1964-69; Commdr. Space and Missile Systems Org., U.S.A.F.S. Commd. 1969-72; Dir. Nat. Security Agency 1972-; Fellow, A.I.A.A., American Astronautical Soc., Nat. Acad. of Eng.; Board of Govs. Nat. Space Club; Senior mem. I.E.E.E.; Hon. LL.D. (Univ. of Wyoming); numerous awards include D.F.C., Croix de guerre and Air Force Longevity Service Award with Five Oak Leaf Clusters, Langley Medal of the Smithsonian Inst., Thomas D. White U.S.A.F. Space Trophy, NASA Distinguished Service Medal. *Leisure interest:* amateur radio. *Address:* HQ NSA, Fort George G. Meade, Md. 20755, U.S.A.

PHILLIPS, Thomas L.; American business executive; b. 1924; ed. Boston Public Latin School and Virginia Polytechnic Inst.; joined Raytheon Co. 1948, Vice-Pres. and Gen. Man. Missile and Space Div. 1960, Exec. Vice-Pres. 1961-64, Pres. and Chief Exec. Officer 1964-75, Chair. and Chief Exec. Officer 1975-; Dir. Nat. Shawmut Bank, John Hancock Mutual Life Insurance Co., State Street Investment Corpn.; mem. Nat. Acad. of Eng., Business Council; Trustee Cttee. for Econ. Devt.; Vice-Pres. and mem. of the corpn. of Joslin Diabetes Foundation Inc.; Trustee of Gordon Coll. and Northeastern Univ.; mem. Corpn. of The Museum of Science; hon. degrees from Northeastern Univ., Boston, Stonehill and Gordon Colls., and Lowell Technological Inst. *Address:* Raytheon Company, 141 Spring Street, Lexington, Mass. 02173, U.S.A.

PHILLIPS, Warren Henry, A.B.; American newspaper executive; b. 28 June 1926, New York City; s. of Abraham and Juliette Phillips; m. Barbara Anne Thomas 1951; three d.; ed. Queens Coll.; Copyreader Wall Street Journal 1947-48, Foreign Corresp., Germany 1949-50, Chief, London Bureau 1950-51, Foreign Editor 1952-53, News Editor 1953-54, Man. Editor, Midwest Edition 1954-57, Man. Editor, Wall Street Journal 1957-65; Exec. Editor, Dow Jones Publications; Vice-Pres. and Gen. Man. Dow Jones Co. Inc. 1970-71; Editorial Dir. 1971-, Exec. Vice-Pres, 1972, Pres. 1972-, Chief Exec. Officer 1975-, Chair. 1978-; Pres. American Council on Educ. for Journalism 1971-73; Pres. American Soc. of Newspaper Editors 1975-76. *Publication:* China: Behind the Mask 1973. *Address:* 22 Cortlandt Street, New York, N.Y. 10007, U.S.A.

PHOMVIHAN, Kaysone; Laotian politician; b. 1920, Savannakhet-Province; ed. Univ. of Hanoi; helped anti-French forces in Viet-Nam after 1945; joined Free Lao Front (Neo Lao Issara) nationalist movement in exile in Bangkok 1945; attended first resistance congress; Minister of Defence in Free Lao Front resistance Govt. 1950; C.-in-C. of Pathet Lao forces 1954-57; mem. People's Party of Laos 1955; mem. Lao Patriotic Front (Neo Lao Hak Sat) 1956, Vice-Chair. 1959, Vice-Chair. of Central Cttee. 1964; Prime Minister of Laos Dec. 1975-; Gen. Sec. Central Cttee. Lao People's Revolutionary Party. *Publication:* To Build a Peaceful, Independent and Socialist Laos 1978. *Address:* Office of the Prime Minister, Vientiane, Laos.

PHOUMSAVAN, Nouhak; Laotian politician; ed. primary school; owner of bus and truck business; visited Peking in Viet-Minh del. for Conf. of Asian and Pacific Region 1952; rep. of Pathet Lao at Geneva Conf. on Indochina with Viet-Minh del. 1954; became Minister of Foreign Affairs in Free Lao Front (Neo Lao Issara) resistance Govt.; Deputy for Sam Neua to Nat. Assembly 1957; arrested 1959, escaped 1960; led Lao Patriotic Front (Neo Lao Hak Sat) del. to Ban Namone peace talks 1961; mem. People's Party of Laos 1955; mem. Lao Patriotic Front, mem. Standing Cttee. 1964, of Central Cttee.; Deputy Prime Minister and Minister of Finance Dec. 1975-. *Address:* Ministry of Finance, Vientiane, Laos.

PHUNG VAN CUNG; Vietnamese physician and politician; b. 1908, Vinh Long Province; ed. Faculty of Medicine, Hanoi Univ.; Dir. of public health service in Rach Gia Province, later in Chau Doc Province; physician, Fukien Hosp., Cholon; joined army and rose to rank of Col. under Pres. Diem; joined resistance 1960; Vice-Pres. Cen. Cttee. Nat. Liberation Front (NLF); Pres. South Vietnamese Peace Cttee., NLF Red Cross Soc.; Vice-Pres. Provisional Revolutionary Govt. of South Viet-Nam, Minister of the Interior 1960-76 (in Saigon 1975-76). *Address:* c/o Communist Party of Viet-Nam, 1C Bd. Hoang van Thu, Hanoi, Viet-Nam.

PHURISSARA, Prince Norodom; Cambodian lawyer and politician; b. 1919; Govt. Service 1944; Deputy Prov. Gov., later in

Ministry of Foreign Affairs and Ministry of Planning; Deputy State Sec. of Interior 1961, State Sec. 1962-64; Dir. of Admin. of Council of Ministers 1964-66; Dean of Faculty of Law, Royal Univ., Phnom Penh 1964-66; Minister of Foreign Affairs 1966-70; joined Nat. United Front of Cambodia (FUNC) 1972; Minister of Justice and Judicial Reforms, Royal Govt. of Nat. Union of Cambodia (GRUNC) 1973-76 (in Phnom-Penh 1975-76). *Address:* c/o Minister of Justice and Judicial Reforms, Phnom-Penh, Cambodia.

PIAGET, Jean, D. ÈS SC.; Swiss psychologist; b. 9 Aug. 1896; ed. Neuchâtel, Zürich and Paris Univs.; Private Docent 1921; Prof. of Philosophy, Neuchâtel Univ. 1926; Prof. of Child Psychology and History of Scientific Thought, Geneva Univ. 1929-; Prof. of Gen. Psychology, Lausanne Univ. 1937-54; Dir. Int. Bureau of Educ. 1929-67; co-Dir. Inst. des Sciences de l'Educ. 1933-71; Dir. Int. Centre of Genetic Epistemology, Geneva 1955-; Foreign Assoc. U.S. Nat. Acad. of Sciences; Erasmus Prize 1972, First Kittay Int. Award for Psychiatry 1973, Prize of Inst. de la Vie 1973; hon. degrees. *Publications include:* Le langage et la pensée chez l'enfant, Le jugement et le raisonnement chez l'enfant, La représentation du monde chez l'enfant, La causalité physique chez l'enfant, Le jugement moral chez l'enfant, La construction du réel chez l'enfant, La naissance de l'intelligence chez l'enfant, Le développement des quantités chez l'enfant, Les mécanismes perceptifs, Biologie et connaissance, Logique et connaissance scientifique, Le structuralisme, Mémoire et intelligence, Psychologie et pédagogie, L'épistémologie génétique, L'équilibration des structures cognitives, L'épistémologie des sciences de l'homme. *Address:* Faculté de Psychologie et des Sciences de l'éducation, Université de Genève 1211 Genève 4, Switzerland.

PIATIER, André (Sylvain); French economist; b. 25 June 1914, Orne; s. of Maurice Piatier and Juliette Grenier; m. Caroline Werling 1940 (died 1976); one d.; ed. Univ. of Paris, London School of Econs., Inst. für Konjunkturforschung, Berlin, Hague Acad., etc.; Rockefeller Fellow and Asst., Faculté de Droit, Paris, and Sec. Inst. Int. de Finances Publiques 1936-39; [redacted] and resistance, lecturer Univ. of Strasbourg, Centre d'Etudes Economiques de la Marine 1939-45; Dir. Econ. Studies and Research, Inst. Nat. de la Statistique, Paris 1946-56; Prof. of Econ. Sciences, Cairo 1955-56, Teheran 1965-67; Pres. of Experts, Int. Travel Inst. 1948-57; UNESCO Expert, Econ. Devt., Athens 1959, Social Devt. Paris 1963, Bangkok 1973; UNO Expert, Population and Environment, Cairo 1973-75; Prof. Ecole Nat. d'Admin., Ecole d'Application de la Statistique, Inst. d'Etudes de Développement Economique et Social, Paris, etc.; Pres. Cttee. for Econ. Science and Devt. 1960-66, Délégation gén. à la Recherche Scientifique; Prof. Ecole des Hautes Etudes Scientifiques Sociales, Inst. d'Etudes Politiques; Special Adviser for Scientific Information, EEC 1976-; Officier Légion d'honneur, Médaille de la Résistance; Dir. Centre d'Etude des Techniques Economiques Modernes (CETEM) 1960-; past mem. of various int. consultative boards. *Publications:* Several works in field of economics, statistics and business studies; Dir. of collections Observation Economique, Développement Economique, Techniques Economique Modernes, Rythmes Economiques etc. *Leisure interests:* painting, music. *Address:* 11 *bis*, rue Vauquelin, Paris 5e, France. *Telephone:* 707-27-04.

PICACHY, H. E. Cardinal Lawrence Trevor, D.D.; Indian ecclesiastic; b. 7 Aug. 1916, Darjeeling; s. of the late Edwin Picachy and May McCue; ed. St. Joseph's Coll., Darjeeling; joined Soc. of Jesus 1934; ordained Roman Catholic priest 1947; Headmaster, St. Xavier's School, Calcutta 1954-60; Principal, St. Xavier's Coll., Calcutta 1954-58, Rector 1954-60; Parish Priest, Basanti village, West Bengal 1960-62; First Bishop of Jamshedpur 1962-69; attended 4 sessions of II Vatican Council 1962-65; Chair. Social Communications (Mass Media) Comm., Catholic Bishop's Conf. of India 1966; world tour studying Mass Media 1968; Archbishop of Calcutta 1969-; Vice-Pres. Catholic Bishops' Conf. of India 1972-76, Pres. 1976-; cr. Cardinal May 1976; mem. Rotary Club of Calcutta 1971. *Address:* Archbishop's House, 32 Park Street, Calcutta 700016, India. *Telephone:* 44-1960.

PICARD, Laurent A., C.C., D.B.A.; Canadian broadcasting executive; b. 27 Oct. 1927, Quebec City; s. of late Edouard Picard and Alice Gingras; m. Marie Thérèse Germain 1954; five s.; ed. Laval and Harvard Univs.; Prof. Faculty of Commerce, Laval Univ. 1955-59; Research Assoc. and Asst., Harvard Business School 1960-62; Prof. and Assoc. Dir. and Consultant, Ecoles des Hautes Etudes Commerciales, Montreal 1962-68; Exec. Vice-Pres. Canadian Broadcasting Corpn. 1968-72, Pres. and Chair. of Board 1972-75; mem. Board of Dirs. Nat. Theatre School of Canada, Telesat Canada, Univ. of Montreal, Nat. Film Board; mem. Board of Trustees, Nat. Art Centre. *Publications:* numerous articles. *Address:* c/o Canadian Broadcasting Corporation, 1500 Bronson Avenue, Ottawa, Ont. K1G 3J5; 591 St. Catherine Road, Outremont, Quebec, Canada (Home).

PICART LE DOUX, Jean; French painter, tapestry designer and book illustrator; b. 31 Jan. 1902, Paris; s. of Charles Picart le Doux and Marguerite Bonneau; m. Annie Bellier 1930; ed. Lycée Condorcet and private Acads. of Art; career devoted to graphic art and since 1943 to tapestry designing; Prof. Ecole nationale supérieure des arts décoratifs, Paris 1961-71; Co-founder Assen. des Peintres-Cartonniers de tapisserie 1945; Pres. Alliance graphique internationale 1949-54, Hon. Pres. 1954-; one-man exhbns. since 1950 in Paris, Lucerne, Geneva, Berlin, London, Zürich, Copenhagen, The Hague, Cologne, Dakar, Abidjan, etc.; has participated in over 800 group exhbns. in France and abroad including Bienal of São Paulo 1958, Decorative Art Exhibition, Tokyo 1960, Int. Biennale of Tapestry, Lausanne; represented in Musées Nat. d'Art Moderne, Paris and Warsaw, Univ. of Kansas, Kultusministerium Stuttgart, etc.; Chevalier, Légion d'honneur, Chevalier des Arts et des Lettres. *Major Works:* over 400 patterns for tapestries; Murals: painting Polytechnic Toulouse, mosaic Groupe Scolaire Choisy-le-Roi, ceramic Hotel le Concorde (Toulouse), Centre Cultural Longlaville, etc.; Book Illustrations: Paris ma rose (Nazim Hikmet), Le bestiaire (Apollinaire), Tétrabilos (Ptolemy). *Leisure interests:* travelling, reading. *Address:* 163 avenue Victor Hugo, 75116 Paris (Studio); 91 rue Boileau, 75016 Paris, France (Home). *Telephone:* 727-93-71.

PICCARD, Jacques Ernest Jean; Swiss scientist; b. 28 July 1922, Brussels, Belgium; s. of Auguste Piccard and Marianne (Denis) Piccard; m. Marie-Claude Maillard 1953; two s. one d.; ed. Univ. of Geneva and Inst. Universitaire de Hautes Etudes Internationales, Geneva; Asst. Prof. of Econs., Geneva 1946-48; consultant scientist to several American orgs. for deep [redacted] research; collaborated with father, Prof. Auguste Piccard, in construction of bathyscaph Trieste; built first mesoscaph Auguste Piccard; has made more than 100 dives in Mediterranean and Pacific, one to 35,800 feet (deepest ever dive) in Jan. 1960; Chief Scientist, research submarine Ben Franklin for the Grumman-Piccard Gulf Stream Drift Mission, Summer 1969; Visiting Prof. of Oceanic Engineering at Stevens Inst. of Technology, Hoboken, New Jersey; Hon. D.Sc. (American Int. Coll. and Hofstra Univ.); Croix de guerre (France), U.S. Distinguished Public Service award 1960, Officier Odre Order de Léopold (Belgium). *Leisure interests:* reading, walking, swimming, diving. *Address:* 19 avenue de l'Avenir, 1012 Lausanne, Switzerland. *Telephone:* 021-28-80-83; 021-99-25-65 (Office).

PICCHIA, Menotti Del, D.LITT., LL.D.; Brazilian journalist, author and civil servant; b. 1892; ed. Porto Alegre and São Paulo; fmr. Dir. journals Mandú, Cidade de Itapira, Tribuna de Santos, A Gazeta, O Correio Paulistano, O Anhanguera, reviews Nossa Revista São Paulo and A Cigarra, and Union of Brazilian Journalists; fmr. Dir. State of S. Paulo Credit Bank; Dir. Dept. of Propaganda and Publicity of S. Paulo State; [redacted] leader, with Graça Aranha and Ronald de Carvalho, of the "Semana de Arte Moderna" with Cassiano Ricardo and Plinio Salgado of nationalist literary movement "Verdeamarelo". *Publications:* of which [redacted] are translated into other languages: Poemas do Vicio [redacted] da Virtude, Juca Mulato, Mascaras, Angustia de D. João, Chuva de Pedra, República dos Estados Unidos do Brasil, Poemas de Amor; ballads: Lais, Tragedia de Zilda, A Tormento, O Homem e [redacted] Morte, O Misterio do Sertão, Cummunká, Salomé; novels and stories: A Mulher que Pecou, O Crime daquela Noite, Toda Núa, O Despertar de S. Paulo, essays and monographs: A Crise da Democracia, Pelo Divorcio, O Momento Literario Brasileiro; plays: Jesus, Suprema Conquista, Mascaras; historical works: Pão de Moloch, Nariz de Cleopatra; children's books.

PICCINATO, Luigi, DR. ARCHIT.; Italian architect and town planner; b. 30 Oct. 1899, Legnago, Verona; m. Ines Wild 1929; two d.; ed. High School, Padua, and Univ. of Rome; Asst. Prof. of Town Planning, Rome 1923-30; Lecturer Town Planning, Naples Univ. 1927-50, Tucumán and Buenos Aires Univs. 1949-50; Prof. of Town Planning Univ. of Venice 1950-64, Univ. of Rome 1964-75 (Emer. 1975-); [redacted] Consiglio Superiore, Ministry of Works 1964, Consiglio Superiore Antichità [redacted] Belle Arti, Ministry of Education 1970, and numerous architectural socs.; mem. Istituto Nazionale di Urbanistica; Hon. Vice-Pres. F.I.H.U.A.T.; Olivetti First Prize for Town Planning, Golden Medal of Merit, Italian Repub. *Major works:* town plans at Sabaudia, Padua, Matera, Pescara, Siena, L'Aquila, Catania, Bolzano, Naples, Rome 1961, Venice 1961, Orvieto, Macerata, Carrara and other Italian towns, Istanbul, Atakoy, Bursa (Turkey), Ezeiza (Buenos Aires); Regional Plans of Venice, Bolzano, Campania, Lazio; houses in Rome, Ivrea and Venice; Eliseo Theatre, Rome; Mediterraneo Theatre, Naples; Stad-

ium, Pescara, C.B.D., Taranto. *Leisure interests:* music, photography, history. *Address:* Piazza S. Jacini 23, 00191 Rome, Italy. *Telephone:* 320374.

PICCOLI, Flaminio; Italian politician; b. 28 Dec. 1915, Kirchbüchl, Austria; s. of Bennoni Piccoli and Teresa Rigo; m. Maria Cescatti; [illegible] s. two d.; Member of Chamber of Deputies 1958-; Pres. of Christian Democratic Deputies 1972-78; Sec.-Gen. Christian Democrat Party Jan.-Nov 1969; Pres. of National Council of Christian Democrats June 1978-; Minister for State Participation in Industry 1970-72. *Address:* 115 Massimi, Rome, Italy. *Telephone:* 345-3382.

PICCOLI, Michel; French actor; b. 27 Dec. 1925, Paris; s. of Henri Piccoli; m. Juliette Gréco 1966; one s. from previous marriage; ed. Collège d'Annel, Collège Ste. Barbe, Paris; Man. of the Théâtre de Babylone for 2 years before joining the Madeleine Renaud and Jean-Louis Barrault Theatre Co.; appeared in Phèdre at the Théâtre Nationale Populaire; films include, Le point du jour 1946, Parfum de la dame en noire 1949, French Cancan 1955, The Witches of Salem 1956, Le bal d'espions 1960, Le mépris 1963, Diary of a Chambermaid 1964, De l'amour 1965, Lady L 1965, La curée 1965, Les demoiselles de Rochefort 1967, Un homme de Trop 1967, Belle de jour 1967, Dillinger is Dead 1968, The Milky Way 1969, Topaz 1969, The Discreet Charm of the Bourgeoisie 1972, Themroc 1972, Blowout 1973, The Infernal Trio 1974, Le fantôme de la liberté 1974, La faille 1975, Léonar 1975, La dernière femme 1976. *Publication:* Dialogues égoistes 1976. *Address:* 33 rue de Verneuil, 75007 Paris, France.

PICKARD, Sir Cyril Stanley, K.C.M.G.; British diplomatist (retd.); b. 18 Sept. 1917, London; s. of late G. W. Pickard and Edith Pickard; m. Helen Elizabeth Strawson 1941; three s. one d.; ed. Alleyn's School, Dulwich and New Coll., Oxford; Ministry of Home Security 1939; Royal Artillery 1940-41; Office of Minister of State, Cairo 1941-45; UNRRA Balkan Mission 1944, later with UNRRA in Germany; Home Office 1945-48; Commonwealth Relations Office (C.R.O.) 1948-; Office of U.K. High Commr. in India 1950-52; Official Sec. to Office of U.K. High Commr. in Australia 1952-55; Head, S. Asia and Middle East Dept., C.R.O. 1955-58; Deputy High Commr. in New Zealand 1958-61; Asst. Under Sec. of State, C.R.O. 1962-66; Acting High Commr., Cyprus 1964; High Commr. in Pakistan 1966-71, in Nigeria 1971-74; Deputy Chair. Cen. Council, Royal Commonwealth Soc. 1976. *Address:* Sommer House, Oak Lane, Sevenoaks, Kent, England.

PICKAVANCE, Thomas Gerald, C.B.E., PH.D., F.R.S.; British physicist; b. 19 Oct 1915, St Helens, Lancs.; s. of late William Pickavance and Ethel Pickavance; m. Alice Isobel Boulton 1943; two s. one d.; ed. Univ. of Liverpool; Research on Atomic Bomb Project, Directorate of Tube Alloys, Liverpool 1940-46; Lecturer in Physics, Liverpool Univ. 1942-46; Head of Cyclotron Group A.E.R.E., Harwell 1946; Prin. Scientific Officer 1947 and Sr. Prin. Scientific Officer 1950; Deputy Head of Gen. Physics Div. A.E.R.E. 1955; Dir. Rutherford High Energy Lab., Nat. Inst. for Research in Nuclear Science 1957-65, Science Research Council 1965-69, Nuclear Physics Science Research Council 1969-71; Fellow St. Cross Coll., Oxford 1968-; Hon. D.Sc.(City Univ. London) 1969. *Leisure interests:* motoring, travel, photography. *Address:* 3 Kingston Close, Abingdon, Oxon., OX14 1ES, England. *Telephone:* Abingdon 23934.

PICKERING, Sir Edward Davies, Kt.; British journalist; b. 4 May 1912; ed. Middlesbrough High School. Chief Sub-Editor Daily Mail 1939; Royal Artillery 1940-44; Staff of Supreme Headquarters Allied Expeditionary Force 1944-45; Managing Editor Daily Mail 1947-49, Daily Express 1951-57, Editor Daily Express 1957-62; Dir. Beaverbrook Newspapers 1956-63; Managing Dir. Beaverbrook Publications 1962-63; Editorial Dir. and Dir. The Daily Mirror Newspapers Ltd. 1964-68; Editorial Dir. Int. Publishing Corpn. Chair. I.P.C. Newspaper Div. and Chair. Daily Mirror Newspapers Ltd. 1968-70; Chair. I.P.C. Magazines Ltd. 1970-74; Chair. Mirror Group Newspapers Ltd. 1974-77; [illegible] Press Council 1964-69, 1970-, Vice-Chair. 1977-; Chair. Commonwealth Press Union 1977-; Dir. Reed Publishing Holdings 1977-; Treas. Int. Fed. of the Periodical Press 1971-75; Vice-Pres. Periodical Publrs Assen. 1971-. *Address:* Room 301, 88 Kingsway, London WC2B 6AB, England. *Telephone:* 01-405 4174.

PICKERING, Sir George White, Kt., M.D., SC.D., LL.D., F.R.C.P., F.R.S.; British physician and educationalist; b. 26 June 1904, Whalton, Northumbria; s. of George and Ann Pickering; m. Mary Carola Seward 1930; one s. three d.; ed. Dulwich Coll., Pembroke Coll., Cambridge, and St. Thomas's Hospital, London; Prof. of Medicine, Univ. of London, and Dir of Medical Clinic at St. Mary's Hospital, London 1939-56; Regius Prof. of Medicine, Univ. of Oxford 1956-68, Pro-Chancellor 1967-69, Master of Pembroke Coll. 1968-74; Foreign Assoc. U.S. Nat. Acad. of Sciences 1970; Hon. Fellow, Pembroke Coll., Cambridge and Pembroke Coll., Oxford; Hon. Student, Christ Church Coll., Oxford; Hon. mem. numerous British, Foreign and Commonwealth Medical Scientific Socs.; ten Dr. h.c. from British and foreign Univs. *Publications:* High Blood Pressure, 1st edn. 1955, 2nd edn. 1968, The Nature of Essential Hypertension 1961, The Challenge to Education 1967, Creative Malady 1974, Quest for Excellence in Medical Education 1978; and papers relating to vascular disease, high blood pressure, peptic ulcer, headache and educ. *Leisure interest:* gardening. *Address:* 5 Horwood Close, Headington, Oxford, OX3 7RF, England. *Telephone:* Oxford 64260.

PICKERING, Thomas Reeve, M.A.; American diplomatist; b. 5 Nov. 1931, Orange, N.J.; s. of Hamilton Reeve Pickering and Sara P. Chasteney; m. Alice Jean Stover 1955; one s. one d.; ed. Bowdoin Coll., Brunswick, Me., Fletcher School of Law and Diplomacy, Medford, Mass., Univ. of Melbourne, Australia; Lieutenant U.S. Navy 1956-59; joined Dept of State 1959, Intelligence Research Specialist 1960, Foreign Affairs Officer 1961, Arms Control and Disarmament Agency 1961-62; mem. U.S. Del. to Disarmament Conf., Geneva 1962-64; Principal Officer, Zanzibar 1965-67; Deputy Chief of Mission, Dar es Salaam 1967-69; Deputy Dir. Bureau of Politico-Mil. Affairs 1969-73; Exec. Sec. Dept. of State, Special Asst. to Sec. of State 1973-74; Amb. to Jordan 1974-78; Asst. Sec. of State for Oceans, Int. Environmental and Scientific Affairs 1978–. *Address:* OES, Room 7831, Department of State, Washington, D.C. 20520, U.S.A. *Telephone:* 202-632-1554.

PICKERING, William Hayward, M.S., PH.D.; American scientist; b. 24 Dec. 1910, Wellington, N.Z.; s. of Albert William and Elizabeth Hayward Pickering; m. Muriel Bowler 1932; one s. one d.; ed. Calif. Inst. of Tech.; California Inst. of Technology 1936-. Prof. of Electrical Eng. 1946-, Dir. Jet Propulsion Laboratory 1954-76; mem. Scientific Advisory Board U.S.A.F. 1945-48; Chair. Panel on Test Range Instrumentation Research and Development Board 1948-49; directed devt. of Army Corporal and Sergeant missiles 1950-55, and many spacecraft, including Explorer I, Ranger, the first U.S. spacecraft to photograph the moon, Mariner II, first spacecraft to return scientific data from the vicinity of a planet (Venus), Mariner IV, first spacecraft to photograph Mars, Surveyor, first U.S. spacecraft to soft-land on the moon and return scientific data; mem. Academic Advisory Council, Univ. of Conn. Space Technology Inst., Advisory Cttee. Dept. of Aeronautics and Astronautics, Univ. of Wash., Advisory Council of Inst. of Geophysics and Planetary Physics, Univ. of Calif., U.S. Technical Panel on Earth Satellite Programs IGY 1956-58, Army Scientific Advisory Panel 1963-65; Pres. A.I.A.A. 1963; Fellow I.E.E.E.; Hon. Fellow A.I.A.A.; mem. Nat. Acad. of Sciences, American Assen. Univ. Profs., American Geophysical Union, Nat. Acad. of Engineering, American Assen. for Advancement of Science, Royal Soc. of New Zealand, Int. Acad. of Astronautics; mem. Int. Astronautics Fed., Pres. 1965-66; Dir. Research Inst., Univ. of Petroleum and Minerals, Saudi Arabia 1976-78; Pres. Pickering Research Corpn., Pasadena, Calif.; hon. mem. New Zealand Inst. of Eng., and Aerospace Medical Assen.; Fellow American Acad. of Arts and Sciences; Hon. D.Sc.(Occidental Coll., Clark Univ.); Meritorious Civilian Service Award U.S. Army 1945, Distinguished Civilian Service Award U.S. Army 1959, Columbus Gold Medal 1964, Prix Galabert Award 1965, Robert H. Goddard Memorial Trophy 1965, Crozier Gold Medal 1965, Spirit of Saint Louis Medal 1965, Distinguished Service Medal NASA 1965, Italian Order of Merit 1966, Louis W. Hill Award 1968, Edison Medal (Inst. of Electrical and Electronics Engineers) 1972, National Medal of Science 1975, Herman Oberth Engineering Award (Fed. Repub. of Germany) 1976, and many other awards. *Leisure interests:* swimming, fishing, hiking, gardening. *Address:* 292 St. Katharine Drive, Flintridge, Calif. 91011, U.S.A. (Home). *Telephone:* 213-795-7557 (Office).

PIEN CHIANG; Chinese government official; Vice-Minister, Sixth Ministry of Machine Building 1963, Minister 1975-78. *Address:* People's Republic of China.

PIENAAR, Louis Alexander, B.A., LL.B.; South African lawyer and diplomatist; b. 23 June 1926, Stellenbosch; s. of Jacobus Alexander Pienaar and Eleanore Angelique Pienaar (née Stiglingh); m. Isabel Maud van Niekerk 1954; two s. one d.; ed. Univ. of Stellenbosch and Univ. of South Africa; joined legal practice in Bellville 1953; [illegible] Provincial Council for Bellville Constituency 1966-70, mem. Parl. for Belville Constituency 1970-75; Amb. to France Oct. 1975-. *Leisure interests:* squash, youth movements. *Address:* Embassy of South Africa, 59 quai d'Orsay, 75007 Paris; 5 rue Cimarosa, 75116 Paris, France. *Telephone:* 555-92-37 (Office); 727-46-54 (Home).

PIENIĄŻEK, Szczepan Aleksander, M.PH., M.S., PH.D.; Polish pomologist; b. 27 Dec. 1913, Slup, [illegible] Garwolin; s. of Józef and Zofia Pieniążek; m. Janina Praska 1939; one s. [illegible] d.; ed. Warsaw Univ., Cornell Univ., Ithaca, N.Y., U.S.A.; Instructor Rhode Island Univ. 1942-45, Asst. Res. Prof. 1945-46; Assoc. Prof., Warsaw Agric. Univ. 1946-54; Prof. 1954-, Chair. Dept. Pomology 1946-68; Corresp. mem. Polish Acad. of Sciences 1952-64, [illegible] 1964-; [illegible] Presidium 1960-, Vice-Pres. 1975-; Dir. Res., Inst. of Pomology, Skierniewice 1951-; [illegible] Polish Botanical Soc. 1936-; mem. American Soc. for Horticultural Science 1938-, Fellow 1974-; [illegible] Int. Soc. for Horticultural Science 1958-, Vice-Pres. 1966-70, Pres. 1970-74, Hon. Life mem. 1976-, Chair. Fruit-Growing Section 1962-66; Editor Prace Instytutu Sadownictwa w Skierniewicach and Fruit Science Reports; Foreign mem. Bulgarian Acad. of Agric. Science 1968, GDR Acad. of Agric. Science 1968, V.I. Lenin All-Union Acad. of Agric. Science 1970; Corresp. [illegible] Agric. Acad. of France 1976; Dr. h.c. Cracow Agric. Acad. 1973; Officer's Cross, Order of Polonia Resituta 1954, Commdr.'s Cross 1973; Order of Banner of Labour, 2nd Class 1959; State Prize, 2nd Class 1950, State Prize (1st Class) 1978, Order of the Builders of Polish People's Republic 1977, and other decorations. *Publications:* Dookoła Sadowniczego Świata (Round the Fruit-Growing World) 1965, Gdy Zakwitna Jabłonie (When the Apple Trees Bloom) 1971, Sadownictwo (Textbook of Pomology) 1976. *Address:* Ul. Niemodlinska 65, 04-635 Warszawa-Anin, Poland.

PIERACCINI, Giovanni; Italian journalist and politician; b. 25 Nov. 1918, Viareggio; m. Vera Verdiani; ed. Univ. of Pisa; Organizer Young Socialist Federation; [illegible] Editorial Staff La Nazione del Popolo 1944-46, Jt. Editor Nuovo Corriere 1946-48; Editor Avanti 1959-63; M.P. 1948-68; fmr. [illegible] Finance and Treasury Comms. and Foreign Affairs Cttee.; Minister of Public Works 1963-64, of Budget 1964-68; Senator 1968-; Minister of the Merchant Navy 1973-74, of Pres. Comm. Industry, Commerce and Tourism; Minister for Scientific and Technological Affairs March-Oct. 1974; Pres. of Socialist Group in Senate; Socialist Party. *Address:* The Senate, Rome; 21 Via Maso di Banco, Florence, Italy. (Home).

PIERCE, The Hon. Chief Justice James Alexander Adolphus; Liberian lawyer; b. 18 July 1908, Harford, Grand Bassa County; ed. Bible Industrial Acad., Cuttington Coll. and Divinity School; Counsel, later judge; mem. Supreme Court; Attorney-General until 1971; Chief Justice of the Supreme Court April 1971-. *Address:* Temple of Justice Building, Monrovia, Liberia.

PIERCE, John Robinson, B.S., M.S., PH.D.; American electrical engineer; b. 27 March 1910, Des Moines, Ia.; s. of the late John S. and Harriett A. Robinson Pierce; m. 1st Martha Peacock 1938 (divorced 1964); 2nd Ellen Richter 1964; one s. [illegible] d.; ed. Calif. Inst. of Technology; Bell Telephone Laboratories 1936-71, Dir. of Electronics Research 1952-55, Dir. of Research, Electrical Communications 1955-58, Communications Principles 1958-61; Exec. Dir. Research-Communications Principles and Systems Div. 1961-65, Research-Communications Sciences Div. 1965-71; Prof. of Eng., California Inst of Technology 1971-; mem. Nat. Acad. of Sciences, Nat. Acad. of Engineering (Founders Award 1977), American Philosophical Soc., Royal Acad. of Sciences (Sweden); Fellow, Acoustical Soc. of America, American Physical Soc., Inst. of Electrical and Electronics Engineers, American Acad. of Arts and Sciences; Valdemar Poulsen Medal 1963, President's Nat. Medal of Science 1963, and many other medals and trophies. *Publications:* Theory and Design of Electron Beams 1954, Traveling Wave Tubes 1950, Electrons, Waves and Messages 1956, Man's World of Sound 1958, Symbols, Signals and Noise 1961, The Research State: A History of Science in New Jersey 1964, Electrons and Waves 1964, Quantum Electronics 1966, Waves and Messages 1967, Science, Art and Communication 1968, Almost All About Waves 1973. *Leisure interests:* writing, science fiction, music. *Address:* California Institute of Technology, Department of Electrical Engineering, 1201 E California Boulevard, Pasadena, Calif. 91125; 931 Canon Drive, Pasadena, Calif. 91106, U.S.A.

PIERRE, Abbé (see Groués, Henri).

PIERRE-BROSSOLETTE, Claude, L. EN D.; French civil servant; b. 5 March 1928, Paris; s. of Pierre Brossolette and Gilberte (née Bruel); m. Sabine Goldet 1953; two d.; ed. Lycée Henri-IV, Faculty of Law of Paris Univ., Ecole Nat. d'Admin.; Inspecteur adjoint des Finances 1952, Insp. 1955; served under two successive Ministers in Office of Minister of Econ. and Financial Affairs 1956; Asst. to Financial Adviser, Embassy in U.S.A. 1957; served Direction des Finances Extérieures 1958; Tech. Adviser, Office of Minister of Finance 1960-62, Asst. Dir. of Office 1962, Deputy Dir. 1963; Asst. Dir. of External Financial Affairs in Direction du Trésor 1964, later Chef de Service 1966; Sec.-Gen. Conseil nat. du Crédit 1967-71; served in office of Valéry Giscard d'Estaing, Minister of Econ. and Financial Affairs 1969-71; Dir. du Trésor, Ministry of Econ. and Financial Affairs 1971; Censeur, Banque de France, Crédit nat. 1971; Vice-Chair. Caisse nat. des Télécommunications 1971-74; Dir. SNCF (Nat. Railways Board) 1971-74, Air France 1971-74; Sec.-Gen. of Presidency of the Repub. 1974-76; Chair. Crédit Lyonnais Aug. 1976-, Omnium financier pour l'Industrie nat. (OFINA) Sept. 1976-; Dir. Crédit nat. Sept 1976-; mem. Conseil nat. du Crédit Sept 1976-, Conseil de Surveillance de la Compagnie Bancaire Oct. 1976-, Administrateur de la Société Air-liquide; Chevalier de la Légion d'honneur, Officier de l'Ordre nat. du Mérite, Chevalier de l'Ordre des Palmes académiques, Médaille de la Résistance. *Address:* Crédit Lyonnais, 19 boulevard des Italiens, 75002 Paris; 37 avenue d'Iéna, 75116 Paris, France (Home).

PIERROT, George Francis, A.B.; American writer; b. 11 Jan. 1898, Chicago, Ill.; s. of Dr. George F. and Aloyse Martin Pierrot; m. 1st Kathryn Barnhisel 1924 (divorced 1930), [illegible] s. (deceased); m. 2nd Helen Hay Reck 1935, two s. two d.; ed. Univ. of Washington; Reporter 1919; editor University of Washington Daily, Canning Age 1920; reporter Seattle Times 1920-21; Lecturer in Journalism Univ. of Washington 1921; Publicity Sec. Seattle Chamber of Commerce; Associate Editor Business Magazine Detroit 1922; Asst. Managing Editor American Boy Magazine 1922-24; Editor Americ[illegible] Boy-Youth's Companion 1924-36, staff writer 1931, travelled round world; Pres. and Dir. World Adventure Series Lectures 1933–; Dir. World Adventure Series, Junior Adventurers, Round-the-World; corresp. World Letters Inc. 1938-39; Press Dir. Ford Motor Co., New York World's Fair 1939-40; Pres. Sprague Publications Inc. 1940-41; Managing Dir. Metropolitan Detroit U.S.O. 1942-43; co-leader Mexican expedition 1944; Exec. Sec. Medical Science Centre of Wayne Univ. 1943-47; Pres. George F. Pierrot Productions 1959; Pres. G.F.P. Inc. T.V. Syndicated Shows 1966-73; Chair. Intrafilm 1975; television producer: World Adventure series 1948-68, George Pierrot Show 1953-76; George Pierrot Presents (daily) 1958-75; Pres. Circumnavigators Club 1962-63, Professional Travel Film Managers' Assn. 1970-; Distinguished Service Award, Wayne State Univ. 1961; Stenius Award 1962; Gov. of Michigan Citation 1967; Michigan World Trader of the Year 1968; Austrian Plaque of Merit 1971, German Award of Merit 1972; Nat. Order of Merit (France). *Publications:* Yea, Sheriton 1925, The Vagabond Trail 1935. *Leisure interests:* travel and travel writing, conversation, fishing, gardening. *Address:* Detroit Institute of Arts, Detroit, Mich. 48202. (Office); 2224 Burns Avenue, Detroit, Mich. 48214, U.S.A. (Home).

PIESKE, Eckard, M.A., DR.RER.POL.; German economist; b. 31 May 1928, Brieg, [illegible] Breslau (now in Poland); s. of Dr. Erich Pieske and Beda-Johanna Pieske; m. Doris Ritter 1957; [illegible] s.; ed. Univ. of Tübingen and Western Reserve Univ., Cleveland, U.S.A.; Economist, Bank Deutscher Länder, Frankfurt 1953; Investment Analyst, Allianz-Lebensversicherung-AG, Stuttgart 1956; official of Fed. Ministries of Econ. Affairs and Finance 1958; Exec. Dir. Int. Monetary Fund 1975-; Ministerial Counsellor, Fed. Ministry of Finance. *Publications:* Gold, Devisen, Sonderziehungsrechte (3rd edn.) 1972. *Leisure interests:* gardening, hiking. *Address:* Bundesministerium der Finanzen, 53 Bonn; Zedernweg 7, 53 Bonn 1, Federal Republic of Germany (Home). *Telephone:* (02221) 791 (Office).

PIETILÄ, Reima Frans Ilmari; Finnish architect; b. 25 Aug. 1923, Turku; s. of Frans Viktor Pietilä and Ida Maria Lehtinen; m. Raili Inkeri Marjatta Paatelainen 1961; [illegible] c.; ed. Inst of Technology; Vice-Chairman Assn. of Finnish Architects 1959-60, [illegible] Gov. Body 1969-70; Foreign [illegible] Royal Acad. for Liberal Arts, Sweden 1969-; State Prof. of Arts 1971-74; Prof. of Architecture Univ. of Oulu 1973-; Partner, Reima Pietilä [illegible] Raili Paatelainen, Architects; Chevalier Ordre de la Couronne (Belgium) 1958; Knight Order of the Finnish Lion 1967. *Major works:* Finnish Pavilion at Brussels World Fair 1958, Kaleva Church, Tampere 1966, Students' Activity Centre, Dipoli, Congress Centre, Otaniemi 1966. *Leisure interest:* theoretical problems in architectural aesthetics. *Address:* University of Oulu, Kirkkokatu 11A, 90100 Oulu 10; Laivurinrinne 1A, 17 Helsinki 12, Finland. *Telephone:* 626852 (Helsinki).

PIEYRE DE MANDIARGUES, André; French writer; b. 14 March 1909, Paris; m. Bona Tibertelli 1950; [illegible] d.; Prix des Critiques for Soleil des loups 1951; Prix Goncourt for La Marge 1967. *Publications:* Dans les années sordides (poems and prose) 1943, Hedera [illegible] la persistance de l'amour pendant [illegible] rêverie (poem) 1945, L'étudiante 1946, Le musée noir 1946, Les incongruités monumentales 1948, Les sept périls spectraux 1950, Les masques de Léonor Fini 1951, Soleil des loups 1951, Marbre 1953, Astyanax 1956, Les monstres de Bomarzo (essays) 1957, Le belvédère (essays) 1958, Feu de braise 1959, La marée 1959, Cartolines et dédicaces 1960, Sugai 1960, L'âge de craie 1961, Deuxième

belvédère 1962, La motocyclette (novel) 1963, Saint-John Perse, A l'honneur de la chair 1963, Sabine 1964, Le point où j'en suis 1964, Beylamour 1965, Les corps illuminés 1965, Larmes de généraux 1965, Porte dévergondée 1965, La marge (novel) 1967, Ruisseau des solitudes 1968, Le marronnier 1968, Troisième belvédère 1971, Mascarets 1971, Bona l'amour et la peinture 1971, Le cadran lunaire 1972, Isabella Morra 1974, Chagall 1975, Le désordre de la mémoire 1975, Sous la lame 1976, Arcimboldo le merveilleux 1977. *Address:* 36 rue de Sévigné, Paris 3e, France. *Telephone:* 887 [illegible].

PIFER, Alan (Jay Parrish); American foundation executive; b. 4 May 1921, Boston; s. of Claude Albert and Elizabeth (Parrish) Pifer; m. Erica Pringle 1953; three s.; ed. Groton School, Harvard Univ., Emmanuel Coll., Cambridge; Executive Sec. U.S. Educ. Comm in U.K. 1948-53; Exec. Asst. Carnegie Corpn. 1953-57, Exec. Assoc. 1957-63, Vice-Pres. Carnegie Corpn., Carnegie Foundation for the Advancement of Teaching 1963-65, Acting Pres. 1965-67, Pres. 1967-; mem. Man. Cttee. U.S.-S.Africa Leader Exchange Program 1957-; Dir. N.Y. Urban Coalition 1967-71, Nat. Assembly for Social Policy and Devt. 1967-71, Council for Social Work Educ. 1968-71, Fed. Reserve Bank 1971-76, Council on Foreign Relations, Comm. on Private Philanthropy and Public Needs 1973-76, Senior Execs. Council, Conf. Board 1973-74, McGraw-Hill Inc. 1977-; mem. Pres.'s Comm on White House Fellowships; Trustee, African-American Inst. 1952-72, Vice-Chair. 1964-69; Trustee, Foundation Library Center 1967-70, Chair. 1968-70; Trustee, Board of Overseers, Harvard Univ. 1969-75, Univ. of Bridgeport 1973, American Ditchley Foundation 1973-; Fellow, African Studies Assn., U.S. Acad. of Arts and Sciences; Hon. LL.D.(Mich. State Univ.) 1971, (Hofstra Univ.) 1974, Hon. Dr. Univ. (Open Univ.) 1974. *Address:* 437 Madison Avenue, New York, N.Y. 10022; 311 Greens Farms Road, Greens Farms, Conn. 06436, U.S.A. (Home).

PIGFORD, Robert Lamar, PH.D., M.S.; American chemical engineer; b. 16 April 1917, Meridan, Miss.; s. of Lamar and Zula Harrington Pigford; m. Marian Pinkston 1939; one s. one d.; ed. Mississippi State Univ. and Univ. of Illinois; Research chemical engineer, E.I. du Pont de Nemours & Co., Wilmington, Del. 1941-47; Prof. and Chair. Dept. of Chemical Engineering, Univ. of Delaware 1947-66; Prof. of Chemical Engineering, Univ. of Calif. (Berkeley) 1966-75; Prof. Univ. of Delaware Sept. 1975-; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng.; Walker, Professional Progress and Lewis Awards, Founders' Award, American Inst. of Chemical Engineers; Editor Fundamentals Quarterly, American Chem. Soc. *Publications:* 3 books and 60 articles in professional journals. *Leisure interests:* music (plays the clarinet), ham radio, woodwork. *Address:* Dept. of Chemical Eng., University of Delaware, Newark, Del. 19711, U.S.A. *Telephone:* (302) 738-1132.

PIGGOTT, Stuart, D.LITT., F.B.A., F.S.A.; British fmr university professor; b. 28 May 1910, Petersfield, Hants.; s. of G.H.O. Piggott and G.A. Phillips; ed. Churchers' Coll., Petersfield, and St. John's Coll., Oxford; Investigator, Royal Comm. on Ancient Monuments (Wales) 1928-33; Asst. Dir. Avebury Excavations (Wilts.) 1934-38; war service, Lieut.-Col., Intelligence Corps 1939-45; Abercromby Prof. of Prehistoric Archaeology, Univ. of Edinburgh 1946-77; Commdr. Royal Comm. on Ancient Monuments Scotland 1946; Trustee, British Museum 1969-74; mem. German Archaeological Inst. 1953; foreign hon. mem. American Acad. of Arts and Sciences 1960; Hon. D.Litt. Hum. (Columbia Univ.). *Publications:* Fire Among the Ruins (poems) 1948, British Prehistory 1949, Prehistoric India 1950, William Stukeley 1950, Neolithic Cultures of the British Isles 1954, Scotland Before History 1958, Approach to Archaeology 1959, Ancient Europe 1965, Prehistoric Societies (with J. G. D. Clark) 1965, The Druids 1968, Introduction to Camden's Britannia of 1695 1971, Ruins in a Landscape 1976; Editor The Dawn of Civilization 1961. *Leisure interests:* reading, eating and drinking, talking. *Address:* The Cottage, West Challow, Wantage, Oxon., England. *Telephone:* Wantage 3478.

PIGNEDOLI, H.E. Cardinal Sergio; Italian ecclesiastic; b. 4 July 1910, Felina di Regio Emilia; ordained 1933; consecrated titular Archbishop of Iconio 1951, mem. Sacred Congregation for the Evangelization of the Peoples; Pres. secretariat for Non-Christians; created Cardinal by Pope Paul VI 1973. *Address:* 00120 Città del Vaticano, Rome, Italy.

PIGNON, Edouard; French painter; b. 12 Feb. 1905, Bully-Grenay (Pas de Calais); m. Hélène Parmelin; two s. one d.; went to Paris from Marles les Mines (Pas de Calais) 1927; pupil of the painter Auclair 1928, of the sculptors Wlerick and Arnold 1930-34; devoted himself exclusively to painting 1936-; Salon des Indépendants 1932-38, des Surindépendants 1938, des Tuileries and d'Automne 1943, de Mai (founding mem.) 1944-; rep. at Paris Exhbns. 1941, 1942, 1943, 1954, 1955, 1956, 1957; One-Man Shows Paris 1946, 1949, 1952-56, 1958, 1959; Retrospective Exhbn., Musée d'Art Moderne, Paris 1966; many foreign exhibitions; costumes and décor for Scheherazade 1948, Mère courage (Théâtre Nat. Populaire) 1952, Mandragore 1953, Ce fou de Platonov, Le malade imaginaire 1956, On ne badine pas avec l'amour (Théâtre Nat. Populaire) 1959; retrospective exhbns. Bucharest, Budapest, Warsaw, Bologne, Luxembourg 1973-75; exhbn of 50 nudes Musée d'Art Moderne, Paris 1976; works in museums at Paris (Art Moderne), Amsterdam, Brussels, Liège, London (Tate Gallery), New York (Modern Art), São Paulo, Stockholm, Gothenburg; principal [illegible] Les maternités 1942-43, Les poissons, femmes assises 1944, Les Catalanes 1945-46, Le port d'Ostende 1947, Les mineurs 1949, Les oliviers 1950, Les vendanges, Cueillettes de jasmins 1953, Les électriciens 1955, Les Paysages de bandol 1958, Les combats de coqs 1959-60, Pousseurs de [illegible] 1961-62, Batailles 1963-64, Plongeurs 1964-67, Têtes de guerriers 1968, Céramique-sculpture, Maison de la Culture, Argenteuil 1970; Chevalier, Légion d'honneur, Chevalier des Arts et Lettres. *Publications:* Illustrations for Les blasons (poem by Maurice Scève), Arbres et voiles (Verdet), Dialogue de l'arbre (Valéry) 1957, Jacques le fataliste (Diderot); La quête de la réalité, Contre-courant 1974. *Address:* Galerie de France, 3 rue du Faubourg-Saint-Honoré, 75008 Paris; 26 rue des Plantes, 75014 Paris, France (Home). *Telephone:* 540-77-21 (Home).

PIKE, Sir Philip, Kt., Q.C.; British judge; b. 6 March 1914, Jamaica; s. of Ernest B. and Dora C. (née Lillie) Pike; m. 1st Phyllis Kelvin Calder 1943, one s. one d.; m. 2nd Millicent Locke Staples 1959; ed. De Carteret School and Munro Coll., Jamaica, and Middle Temple, London; Crown Counsel Jamaica 1947-49; Legal Draftsman, Kenya 1949-52; Solicitor-Gen., Uganda 1952-58; Attorney-Gen., Sarawak 1958-65; Chief Justice High Court, Borneo 1965-68; Judge and Acting Chief Justice, Malawi 1969-70; Chief Justice, Swaziland 1970-72; Coronation Medal; decorations from Malaysia and Sarawak. *Leisure interests:* golf, photography. *Address:* 30 Berg Road, Fish Hoek 7975, South Africa.

PIKE, Marshal of the Royal Air Force Sir Thomas Geoffrey, G.C.B., C.B.E., D.F.C.; British air force officer; b. 29 June 1906, London; s. of Capt. and Mrs. S. R. Pike; m. Althea Elwell 1930; one s. two d.; ed. Bedford School and R.A.F. Coll., Cranwell; joined R.A.F. 1923, Squadron-Leader 1937, Group Captain 1941, Air Commodore 1944, Air Vice-Marshal 1950; Marshal of the Royal Air Force 1962-; served Second World War 1939-45; A.O.C. No. 11 Group, Fighter Command 1950-51; D.C.S. H.Q. Air Forces, Central Europe 1951-53; Dep. Chief of Air Staff 1953-56; Air Officer C.-in-C. Fighter Command 1956-59; Chief of Air Staff 1960-63; Deputy Supreme Commdr., Allied Forces, Europe 1964-67; Legion of Merit, U.S.A. *Address:* Little Wynters, Hastingwood, Harlow, Essex, England.

PILCHER, Sir John (Arthur), G.C.M.G. ; former British diplomatist; b. 16 May 1912; s. of Col A. J. Pilcher and Edith Blair; m. Delia Margaret Taylor 1942; one d.; ed. Shrewsbury and Clare Coll., Cambridge; served Japan 1936-39, China 1939-41; Ministry of Information and Foreign Office 1941-48; Press Attaché, Rome 1948-51; Foreign Office 1951-54; Counsellor, Madrid 1954-59; Ambassador to Philippines 1959-63; Asst. Under-Sec. of State, Foreign Office 1963-65; Amb. to Austria 1965-67, to Japan 1967-72; Standing Comm. on Museums and Galleries 1973-; Dir. Foreign and Colonial Investment Trust 1973-; Adviser to Robert Fleming and Co. 1973-; Grand Cross, Austrian Order of Merit 1966; Order of the Rising Sun, First Class (Japan) 1971; Grand Officer Order of Merit, Italy 1977. *Leisure interests:* music, literature, the arts, history. *Address:* 33 The Terrace, London, S.W.13, England. *Telephone:* 01-876 9710.

PILE, Sir John Devereux, Kt., M.A., F.B.I.M.; British business executive; b. 5 June 1918, Seaford, Sussex; s. of Gen. Sir Frederick Pile, Bt. and Lady Ferguson; m. Katharine M. Shafe; two s. two d.; ed. Weymouth Coll., Dorset and Trinity Coll., Cambridge; joined Imperial Tobacco Group 1946, Man. W. D. & H. O. Wills and Wm. Clarke & Son, Dublin 1956-59, Chair. Robert Sinclair Ltd. 1960-64, Churchmans 1964-67, W. D. & H. O. Wills 1967-71; Deputy Chair. Imperial Tobacco Group Ltd. 1971-75, Chief Exec. Imperial Group Ltd. 1973-, Chair. 1975-; Dir. Nat. Westminster Bank Ltd. 1977. *Address:* Imperial House, Grosvenor Place, London, S.W.1; Munstead, Godalming, Surrey, England (Home).

PILE, Sir William Dennis, G.C.B., M.B.E.; British civil servant; b. 1 Dec. 1919, Whitley Bay, Northumberland; s. of James Edward and Jean Elizabeth Pile; m. Joan Marguerite Crafter 1948; one s. two d.; ed. Royal Masonic School and Cambridge Univ.; entered Ministry of Educ. 1946; Cabinet Office 1951; returned to Ministry of Educ. 1952; Asst. Sec. 1955, Under-Sec. 1962; Ministry of Health

1966; Deputy Sec. Home Office Dir.-Gen. of H.M. Prison Service 1967; Perm. Sec. Dept. of Educ. and Science 1970-76; Chair. Board of Inland Revenue 1976-. *Address:* Board of Inland Revenue, Somerset House, Strand, London; The Manor House, Riverhead, Near Sevenoaks, Kent, England (Home). *Telephone:* 01-438 6615.

PILKINGTON, Baron (Life Peer), cr. 1968, of St. Helens in the County Palatine of Lancashire; **Harry Pilkington;** D.L.; British businessman; b. 19 April 1905, St. Helens, Lancs.; s. of late Richard Austin Pilkington and late Hope Cozens-Hardy; m. 1st Peggy Rowan (died 1953) 1930, [illegible] s. two d. (one d. deceased); m. 2nd Mavis Joy Doreen Wilding (née Caffrey) 1961, [illegible] s. one d. one step-s. [illegible] step-d.; ed. Rugby and Magdalene Coll., Cambridge; Dir. Pilkington Brothers Ltd. 1934-, Chair. 1949-73, Hon. Life Pres. 1973-; Dir. Bank of England 1955-72; Pres. Fed. of British Industries 1953-55; Pres. Council of European Industrial Feds. 1954-57; Chair. Nat. Advisory Council for Education for Industry and Commerce 1956-67; Chair. Royal Comm. [illegible] Doctors' and Dentists' Pay 1957-60, Cttee. of Inquiry into the Future of Sound and Television Broadcasting 1960-62, Econ. Devt. Cttee. for Chemical Industry 1968-72; Chancellor, Loughborough Univ. of Technology 1966-; Dir. Business Int. Ltd. 1968-77; Vice-Lord Lieut. for Merseyside 1974-; Fellow British Inst. of Management; Pres. British Shippers' Council 1971-74, British Plastics Fed. 1972-74; Chair. N.W. Regional Council for Sport and Recreation 1976-; Businessman of the Year 1973; Hon. D.S.C., LL.D., D.C.L. *Leisure interests:* theatre, tennis, rose-growing. *Address:* Windle Hall, St. Helens, Merseyside, England. *Telephone:* St. Helens 28882 (Office); St. Helens 23423 (Home).

PILKINGTON, Sir Lionel Alexander Bethune (known [illegible] Sir Alastair), Kt., M.A., F.R.S., F.B.I.M.; British glassmaker; b. 7 Jan. 1920, Calcutta, India; s. of late Col. G. R. Pilkington and Mrs Pilkington; m. 1st Patricia N. Elliot 1945 (died 1977); one [illegible] one d.; m. 2nd Kathleen Haynes 1978; ed. Sherborne School and Trinity Coll., Cambridge; joined Pilkington Brothers Ltd. 1947, Dir. 1955 (–80), Dep. Chair. 1971-73, Chair. 1973-; inventor of the float glass process; Dir. Bank of England 1974-, British Petroleum 1976-, Chloride Group Jan. 1979- (non-exec. Chair.); mem. Court of Govs., Admin. Staff Coll. Henley 1973-, Council, Liverpool Univ., Man. Cttee., Royal Liverpool Philharmonic Soc.; Fellow, Imperial Coll. of Science and Tech., London 1974; Hon. Fellow UMIST 1969; Hon. D.Tech. (Loughborough) 1968; Hon. D.Eng. (Liverpool) 1971; Hon. D.Tech. (C.N.A.A.) 1976; Toledo Glass and Ceramic Award 1964, Mullard Award (Royal Soc.) 1968, John Scott Award (City Trust, Philadelphia) 1969, Wilhelm Exner Medal (Austrian Trade Assen.). *Leisure interests:* music, walking, carpentry, gardening and skiing. *Address:* Pilkington Brothers Ltd., St. Helens, Merseyside, (Office); The Crossways, View Road, Rainhill, Prescot, Merseyside, England (Home). *Telephone:* St. Helens 28882 (Office): 051-426 4228 (Home).

PILLIOD, Charles J., Jr.; American business executive; b. 20 Oct. 1918, Cuyahoga Falls, Ohio; m. Marie Elizabeth Jacobs; three s. two d.; ed. Kent State Univ., Ohio; Production Trainee Goodyear 1941; Pilot U.S. Air Force, World War II; Man. Dir. Goodyear-Panama 1947, Sales Man. Goodyear-Columbia 1954, Man. Dir. Goodyear, Brazil 1959, Man. Dir. Goodyear, U.K. 1964, Dir. of Operations, Goodyear Int. 1966, Vice-Pres. 1967, Pres. 1971; Vice-Pres. Goodyear Tire & Rubber Co. 1971, Exec. Vice-Pres., Dir. 1971, Pres. 1972-74, Chair., Chief Exec. Officer 1974-; Dir. CPC Int., Mfrs. Hanover Corpn., Mfrs. Hanover Trust Co., Communications Satellite Corpn., Continental Group Inc.; mem. The Busi[illegible] Council, Business Roundtable Policy Cttee., Chair. U.S. Section, Brazil-U.S. Business Council, Trustee Univ. of Akron, Mount Union Coll. of Alliance, Ohio; Hon. C.B.E. 1972, Hon. Dr. of Laws (Kent State Univ.) 1974, Grand Officer, Order of Merit (Luxembourg) 1975, Order of Rio Branco (Brazil) 1977. *Address:* Goodyear Tire [illegible] Rubber Co., 1144 East Market Street, Akron, Ohio 44316, U.S.A.

PILLSBURY, Philip Winston; American executive; b. 16 April 1903; ed. Blake School, Hotchkiss and Yale Univ.; joined The Pilsbury Co. 1924, Dir. 1928-, Treas. 1940, Pres. and Dir. 1940-52, Chair. 1952-65, Chair. Finance Cttee., Exec. Cttee. 1965-70, Hon. Chair. 1970-74, Chair. Emer. 1974-; official of other companies: Hon. French Consul, Minnesota; Dir. Nat. Audubon Soc.; LL.D. (Grinnell). *Address:* 300 West Ferndale Road, Wayzata, Minn. 55391, U.S.A. *Telephone:* 612-473-8682.

PILYUGIN, Nikolay Alekseyevich; Soviet scientist in automation and telemechanics; b. 18 May 1908, Krasnoe Selo, St. Petersburg (now Leningrad) region; ed. Bauman Higher Technical School, Moscow; worker 1926-35; engineer, Dir. several research Insts. 1935-; Head Dept., Moscow Inst. Radiotech., Electronics and Automation 1969-, Prof. 1970-; Corresp. [illegible] U.S.S.R. Acad. of Sciences 1958-66; [illegible] 1966-, mem. Presidium 1967-; [illegible] C.P.S.U. 1940-; Deputy to U.S.S.R. Supreme Soviet 1966-; Hero of Socialist Labour 1956, 1961; Lenin Prize 1957; U.S.S.R. State Prize 1967; Order of Lenin (three times); Order of October Revolution and other decorations. *Publications:* Works [illegible] problems of automatic control. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

PIMEN, Patriarch **(Sergey Mikhailovich Isvekov);** Soviet ecclesiastic; b. July 1910, Bogorodsk, Moscow Region; became monk 1927; ordained priest 1932; Bishop of Odessa 1957, Archbishop 1960; Metropolitan of Leningrad 1960-63; Metropolitan of Krutitsky and Kolomna 1963-71; Patriarch, Metropolitan of Moscow and All Russia 1971-; Grand Cordon, Order of the Cedar of Lebanon 1972, Order of St. Sergius of Radonezh (U.S.S.R.) 1979. *Address:* Ul. Kropotkinskaya, Chisty per. 5, Moscow, U.S.S.R.

PIMENTEL, George Claude, A.B., PH.D.; American professor of chemistry; b. 2 May 1922, Fresno, Calif.; s. of Emile Pimentel and Lorraine Laval; m. Betty Anne Jeffrey 1942; three d.; ed. Univ. of Calif. at Berkeley. Instructor in Chem. Univ. of Calif. at Berkeley 1949-51, Asst. Prof. 1951-55, Assoc. Prof. 1955-59, Prof. of Chem. 1959-; Fellow American Acad. of Arts and Sciences; [illegible] Nat. Acad. of Science 1966, American Chemical Soc.; A.C.S. Petroleum Chem. Award 1959; Manufacturing Chemists College Teaching Award 1971; Joseph Priestley Award 1972; Pittsburgh Spectroscopy Award 1974. *Publications:* Selected Values of Physical and Thermodynamic Properties of Hydrocarbons and Related Compounds (with Rossini and others) 1953, Introductory Quantitative Chemistry (with Olson and Koch) 1956, The Hydrogen Bond (with McClellan) 1960, Radical Formation and Trapping in the Solid Phase (in Formation and Trapping of Free Radicals, Edited by A. M. Bass and H. P. Broida) 1960, Chemistry: An Experimental Science 1963; Understanding Chemical Thermodynamics (with R. D. Spratley); Chemical Bonding Clarified through Quantum Mechanics (with R. D. Spratley), Understanding Chemistry (with R. D. Spratley); [illegible] 150 articles on molecular spectroscopy, chemical bonding, free radicals via matrix isolation, infra-red study of Mars, chemical lasers. *Leisure interests:* squash, photography. *Address:* Department of Chemistry, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 415-642-6330.

PINARD, Roch, P.C.; Canadian lawyer and politician; b. 1910; ed. Univ. of Montreal; admitted to Bar 1932; joined legal firm Mercier, Blain, Bissonnette and Fauteux; founded legal firm Bissonnette, Pinard and Perreault 1935, changed to Bertrand, Pinard, Pigeon, Paré and Ozère and finally to Pinard, Pigeon, Paré and D'Amour 1949-; M.P. for Chambly-Rouville 1945-57; mem. External Affairs Cttee. 1945-57; mem. Canadian Del. to UN 1953; Parliamentary Asst. to Sec. of State for External Affairs 1953-54, Sec. of State 1954-57; Vice-Pres. Canadian Del. to UN 1955. *Address:* 331 Portland Avenue, Montreal, Quebec, Canada.

PINAY, Antoine; French industrialist and politician; b. 30 Dec. 1891; served First World War 1914-18; engaged in leather industry; Mayor of Saint-Chamond 1929-77, Conseiller général, Canton of Saint-Chamond 1934-; Deputy from Saint Etienne (Saint Chamond) 1936-38, Senator from Loire 1938-40; elected to Constituent Assembly 1945, to Nat. Assembly 1946-58; Sec. of State for Economic Affairs, first Queuille Cabinet 1948-49; Minister of Public Works and Transport in first Pleven Cabinet and subsequent cabinets 1950-52; Prime Minister March-Dec. 1952; Minister of Foreign Affairs Feb. 1955-56; Minister of Finance and Economic Affairs, de Gaulle Cabinet, June 1958-Jan. 1959, Debré Cabinet Jan. 1959-Jan. 1960; Pres. Cie. française pour la diffusion des techniques 1960-; Adviser Soc. pour l'expansion industrielle française à l'étranger 1962-; Pres. of Regional Econ. Devt. for Rhône-Alpes 1964-73; Dir. Caisse d'aide à l'équipement des collectivités locales 1966-; first Ombudsman of France 1973-74. *Address:* 87 boulevard Suchet, Paris 16e; and Route du Coin, Saint-Julien-en-Jarez, 42-Saint-Chamond, France.

PINDBORG, Jens Jørgen, D.D.S.; Danish oral pathologist; b. 17 Aug. 1921, Copenhagen; m. Eva Hartz 1951; ed. Royal Dental Coll., Copenhagen, and Univ. of Illinois. Instructor Research Assoc. and Assoc. Prof., Royal Dental Coll., Copenhagen 1943-59, Prof. and Chair. Dept. of Oral Pathology 1959-; Head, Dental Dept., Univ. Hospital, Copenhagen 1953-; Consultant, Danish Nat. Health Service 1958-66; Chief, Dental Corps, Royal Danish Navy 1946-59; Perm. Guest Lecturer, Royal Dental Coll., Malmö, Sweden; Visiting Prof. Univ. of Illinois 1958, 1961, Hebrew Univ. Jerusalem 1969, WHO Visiting Prof. in India 1963-64; Dir. Indo-Danish Oral Cancer Control Project Trivandrum 1969-; Head, Collaborating Center under WHO Int. Reference Center for Oropharyngeal tumours, Agra, India 1964-; Head Collaborating Center under WHO Int.

Reference Center for Salivary Gland Tumours London 1965-; Visiting Prof. Tata Inst. of Fundamental Research Bombay 1966-; Consultant for Ministry of Health Uganda 1966; Research expert for WHO to New Guinea and Fiji 1966; Dir. WHO Int. Reference Centre on Odontogenic Tumours 1966-; Consultant, WHO in Brazil and Colombia 1967; Dir. WHO Int. Reference Centre on Oral Precancerous Conditions 1967-; Consultant for WHO in Afghanistan 1968; Editor-in-Chief, Danish Dental Journal 1962-, Scandinavian Journal of Dental Research 1970, Int. Journal of Oral Surgery 1972-75; Pres. Assen of Hospital Dentists 1954-66, Danish-Israeli Assen. 1964-69; Consultant to WHO on classification of oral diseases; mem. Danish Medical Research Council 1972-77, Vice-Chair. 1974-76, Chair. 1976-77; Editor-in-Chief Community Dentistry & Oral Epidemiology 1973; Dr. h.c. (Karolinska Inst., Stockholm) 1973, (Univ. of Lund) 1974, (Univ. of Oslo) 1976, (Witwatersrand Univ.) 1976; Founding mem. Int. Acad. of Oral Pathology; Fellow, American Assen. for Advancement of Science, Royal Coll. of Surgeons; Hon. Fellow, Dental Surgery, Royal Coll. of Pathology, American Acad. of Oral Pathology 1975; Hon. mem. Burmese Medical Assen. 1976; Commemoration Lecture Odontological Section, Royal Soc. of Medicine 1972; K. H. Box Lecture, Toronto 1964; E. J. Goddard Oration, Brisbane 1970; Cordwainer's Lecturer, Univ. London 1974; Isaac Schour Memorial Award 1970; Elmer Best Award 1972; Robertson lecture Univ. of Sheffield 1975. *Publications:* The Dentist in Art 1960, Syndromes of Head and Neck (with R. J. Gorlin) 1964, Atlas of Diseases of the Oral Mucosa 1968, Pathology of the Dental Hard Tissues 1970, Histological Typing of Odontogenic Tumours, Cysts and Allied Lesions (with I. R. H. Kramer and H. Torloni) 1972, Histology of the Human Tooth 1973, Atlas of Diseases of the Jaws (with E. Hjörting-Hansen) 1974, and six books in Danish and 230 papers on oral pathology, oral medicine and cancer research. *Leisure interests:* art, archaeology. *Address:* 4 Universitetsparken, 2100 Copenhagen Ø, Denmark. *Telephone:* 371700.

PINDLING, Rt. Hon. Lynden Oscar, P.C.; Bahamian politician; b. 22 March 1930; ed. Govt. High School, Bahamas, and London Univ.; Lawyer 1952-67; Leader of Progressive Liberal Party; Premier of Bahamas 1967-69, Prime Minister 1969-; also Minister of Econ. Affairs. *Address:* Office of the Prime Minister, P.O. Box N.7147, Nassau, Bahamas.

PINEAU, Christian; French politician; b. 14 Oct. 1904, Chaumont; m. Blanche Bloys 1963; seven c.; Asst. Sec.-Gen. Conf. Gen. du Travail; editorial staff Le Peuple; founder clandestine "Libération Nord"; escaped to London, returned to France, arrested, again escaped to London, returned a second time, arrested and sent to Buchenwald; released 1945; Deputy to Constituent Assemblies 1945-46, Nat. Assembly 1946-58; Minister of Food 1945, of Public Works 1948 and 1949, of Finance 1948, of Foreign Affairs 1956-58; Dir.-Gen. and Pres. France-Villages, France-Môtels 1963-67; Officier, Légion d'honneur, Compagnon de la Libération, C.B.E., G.C.M.G. *Publications:* Books for Children include: Contes de je ne said quand, Plume et le Saumon, L'Ourse aux pattens verts, Comerouse le Mystérieux, Histoires de la Forêt de Bercé; Books for adults: La simple Vérité (history of the French Resistance), Mon Cher Député, L'Escalier des Ombres, Suez 1956. *Address:* 55 rue Vaneau, Paris 7e, France. *Telephone:* BAB 58-20.

PINGEL, Klaus G., DR.IUR.; German lawyer and civil servant; b. Grenzberg; m. Dorothea Arendt 1939; two c.; ed. Univs. of Berlin, Königsberg, Geneva and Kiel; Barrister-at-law; Supervisory Officer German/Danish Border, German Customs Admin 1953; with Fed. Ministry of Finance; joined Comm. of European Communities 1959, Counsellor to Customs Directorate, Head of Negotiation Team of Community in GATT; Head Customs Valuation Div. 1963; Dir. Admin. of the Customs Union (fmrly. Customs Directorate) 1968–, Dir. Gen. Customs Union Service 1978-. *Address:* Service of the Customs Union, Commission of the European Communities, 200 rue de la Loi, 1049 Brussels, Belgium.

PINGET, Robert; French writer; b. 19 July 1919; ed. legal studies at univ.; fmr. barrister, later painter; taught French in England; literary career 1951-; Prix des Critiques 1963, Prix Femina 1965. *Publications:* Fantoine et Agapa 1951, Mahu ou le matériau 1952, Le renard et la boussole 1955, Graal Flibuste 1957, Baga 1958, Le fiston 1959, Lettre morte 1959, La manivelle (play) 1960, Clope au dossier 1961, Architruc (play) 1961, L'hypothèse (play) 1961, L'inquisitoire 1962, Quelqu'un 1965, Autour de Mortin (dialogue) 1965, Le libera 1968, La passacaille 1969, Fable 1971, Identité, Abel et Bela (play) 1971. *Address:* 4 rue de l'Université, Paris 7e, France.

PINHEIRO DE AZEVEDO, Vice-Admiral José Baptista; Portuguese naval officer and politician; b. 1917, Angola. Naval Attaché, London 1968-71; Commdr. Marine Corps-1974; mobilized Navy support for overthrow of Caetano Govt. April 1974; Chief of Navy Staff 1974-75; mem. Junta of Nat. Salvation April 1974-March 1975, Council of State May 1974-March 1975, Supreme Revolutionary Council 1975-76; Prime Minister Sept. 1975-July 1976; unsuccessful cand. in Pres. election June 1976. *Address:* c/o Office of the Prime Minister, Lisbon, Portugal.

PINIÉS, Jaime de; Spanish diplomatist; b. 18 Nov. 1917, Madrid; m. Luz Bianchi 1954; two s.; ed. Univ. of Madrid; Law Div. Bank of Spain 1941-45; joined Spanish Foreign Service 1945; Sec., Cuba 1945-47, U.K. 1947-48, U.S.A. 1948-54, Philippines 1955; mem. Staff of Spanish Perm. Mission to UN 1956; Dir. N. American Div., Ministry of Foreign Affairs 1957-60; Deputy Perm. Rep. to UN 1960-68, Perm. Rep. 1968-72, 1973-; Amb. to U.K. 1972-73. *Address:* Permanent Mission of Spain to United Nations, 809 United Nations Plaza, 6th Floor, New York, N.Y. 10017, U.S.A.

PINILLA FÁBREGA, Colonel José Manuel; Panamanian army officer and politician; b. 28 March 1919, Panama; s. of José M. Pinilla F. and Lucila Fábrega Vda. de Pinilla; m. Dora Paniza de Pinilla; ed. "Colón Eloy Alfaro" Mil. Acad., Ecuador; Second Lieut. Infantry Nat. Guard 1941, Capt. 1944, Major 1951, Lieut.-Col. 1960, Col. 1966, Second-in-Command of Nat. Guard; has been Mil. Rep. for Panama in Ecuador, Colombia, Peru, Nicaragua, Panama Canal Zone, Guatemala; Pres. of Provisional Govt. Council of Panama 1968-69; numerous decorations. *Address:* Panama City, Panama.

PIŃKOWSKI, Józef; Polish politician; b. 17 April 1929, Siedlce; ed. Higher School of Econs., Poznań; Officer Polish Army 1952-56; Dir. of Dept. Ministry of Purchase, then Ministry of Agricultural Products, later Chief Insp. of Corn, Ministry of Food Industry and Purchase 1956-58; Sec. Scientific Econ. Council, Voivodship Nat. Council 1958-60, Vice-Chair. of Presidium 1960-65, Chair. 1965-17; First Vice-Chair. Planning Comm. attached to Council of Ministers 1971-74; mem. Exec. Warsaw Voivodship Cttee., Polish United Workers' Party 1965-71, mem. Cen. Cttee. 1971-, Sec. Cen. Cttee. 1974-; Deputy to Seym (Parl.) 1969-; Chair. Seym Comm. of Econ. Planning, Budget and Finance 1974-; Order of Banner of Labour (2nd Class), Knight's Cross of Order of Polonia Restituta. *Address:* Komitet Centralny Polskiej Zjednoczonej Partii Robotniczej, Ul. Nowy Świat 6, 00-497 Warsaw, Poland.

PINOCHET UGARTE, Gen. Augusto; Chilean army officer; b. 25 Nov. 1915; m. María Lucía Hiriat Rodríguez; two s. three d.; ed. Mil. Acad., School of Infantry, Acad. of War, Acad. of Nat. Defence; Army career 1933-, Col 1966, Brig.-Gen. 1969, Div. Gen. 1970, Gen. 1973; Instructor Acad. of War 1954, Deputy Dir. 1964; Asst. to Under-Sec. of War 1954; mem. Chilean mil. mission to U.S.A. 1956; Instructor Acad. of War, Ecuador 1956-59; C.-in-C. VI Army Div., Chief of Army Staff 1969; C.-in-C. of Army 1973-; led coup to depose President Salvador Allende Sept. 1973; Pres. Gov. Council of Chile 1973-74; Pres. of Chile 1974-; Pres. Junta Militar; Mil. Star, Grand Mil. Merit Cross, High Command Hon. Officer (Ecuador), Abdón Calderón Parra Medal (Ecuador), Order of Mil. Merit (Colombia), Grand Cross of Military Merit (Spain). *Publications:* Geopolitica—Diferentes Etapas para el Estudio Geopolitico de los Estados 1968, Geografía de Chile 1968, Geografía de Argentina, Perú y Bolivia 1972, Guerra del Pacífico 1879—Primeras Operaciones Terrestres 1972. *Address:* Oficina del Presidente, Santiago, Chile.

PINTER, Harold, C.B.E.; British playwright; b. 10 Oct. 1930, London; m. Vivien Merchant 1956; one s.; ed. Hackney Downs Grammar School, London; actor mainly in English and Irish provincial repertory 1949-58; playwright 1957-; Assoc. Dir. Nat. Theatre; Hon. Dr. Univ. (Stirling) 1979; Austrian Prize for European Literature 1973. *Plays:* The Room 1957, The Dumb Waiter 1957, The Birthday Party 1957, A Slight Ache 1958, The Caretaker 1959, A Night Out 1959, Night School 1960, The Dwarfs 1961, The Collection 1962, The Lover 1962, Tea Party (TV play) 1964, The Homecoming 1965, The Basement (TV play) 1967, Landscape 1969, Silence 1969, Night (one act play) 1969, Old Times 1970, Monologue (one act play) 1972, No Man's Land 1975, Betrayal 1978; screenplay for The Caretaker 1962, The Servant 1963, The Pumpkin Eater 1964, The Quiller Memorandum 1966, Accident 1967, The Birthday Party 1968, The Go-Between 1969, Langrishe Go Down 1970, A la Recherche du Temps Perdu 1972, The Last Tycoon 1976; *other works:* Poems and prose 1949-77 1978, The Proust Screenplay (with Joseph Losey and Barbara Boray) 1978; Dir. The Man in the Glass Booth London 1967, N.Y. 1968, Exiles 1970, 1971, Butley 1971, (film) 1973, Next of Kin 1974, Otherwise Engaged 1975. *Leisure interests:* cricket, drinking. *Address:* c/o ACTAC Ltd., 16 Cadogan Lane, London, S.W.1., England.

PINTO BARBOSA, António Manuel; Portuguese economist and diplomatist; b. 31 July 1917; ed. Universidade Técnica de Lisboa; Teacher 1941-50; Prof. Inst. of Higher Econ. and Financial Sciences 1951-; Pres. Comm. for Reorganization of Industrial Resources 1951-54; Under-Sec. of State at Treasury 1951-54; Minister of Finance and Gov. IBRD 1955-65; Gov. Bank of Portugal and Gov. IMF 1966-74; Grand Cross, Order of Christ, Order of Prince Henry and of Isabel la Católica (Spain). *Publications:* L'industrie des conserves [illegible] Portugal 1941, L'économie, aspects positifs et aspects théologiques 1943, L'économie du Café 1945, La crise des exportations métropolitaines pour l'étranger 1950, La tâche du Ministre des Finances 1955, Banco de Fomento Nacional 1959, L'activité du Ministre des Finances 1960, La défense de la stabilité financière 1962, Communication du Ministre des Finances sur le crédit extérieur 1962, La phase actuelle des finances portugaises 1964, La dévaluation de 1949 et le commerce extérieur portugais 1966. *Address:* Rua Almirante António Saldanha 3, Barrio do Restelo, Lisbon, Portugal.

PINTO-COELHO, Luis da Camara; Portuguese lawyer and diplomatist; b. 1912; ed. Liceu Pedro Nuñes, Univ. of Lisbon and Univ. of Rome; Civil Gov. District of Castelo Branco 1934-36; Gen Sec. Portuguese Youth Org. 1936-37; lawyer 1939-61; Prof. Univ. of Lisbon 1940; Legal Adviser, Ministry of Economy 1942-60; Deputy at Nat. Assembly 1945-49: Nat. Commissary, Portuguese Youth Org. 1946-52: Amb. to Spain 1961-68; Prof. at Univ. and lawyer, São Paulo 1969-; cultural mission for Portuguese Govt. in Brazil 1970; several Portuguese and Spanish decorations. *Publications:* The Co-Proprietor and the Portuguese Law 1939, 1942. *Address:* Avenida da Liberdade 91, 14°, São Paulo, SP, Brazil. *Telephone:* 34-70-34.

PIONTEK, Heinz; German writer; b. 15 Nov. 1925, Kreuzburg, Silesia; m. Giselle Dallmann 1951; ed. Theologisch-Philosophische Hochschule, Dillingen; Berlin Prize for Literature 1957, East German Writers' Prize, Esslingen 1957; [illegible] Bavarian Acad. of Fine Arts 1960-, Central PEN of Fed. Repub. of Germany; Rom-Preis, Villa Massimo 1960, Münchner Literatur Preis 1967, Eichendorff-Preis 1971, Tukan-Preis 1971, Literatur Preis des Kulturkreises im BDI 1974, Georg-Büchner-Preis 1976. *Publications:* Die Furt (poems) 1952, Die Rauchfahne (poems) 1953, Vor Augen (stories) 1955, Wassermarken (poems) 1957, Buchstab-Zauberstab (essays) 1959, Aus meines Herzens Grunde (anthology) 1959, John Keats: Poems 1960, Weisser Panther (radio play) 1962, Mit einer Kranichfeder (poetry) 1962, Kastanien aus dem Feuer (stories) 1963, Windrichtungen (journey reports) 1963, Neue deutsche Erzählgedichte (anthology) 1964, Klartext (poetry) 1966, Die mittleren Jahre (novel) 1967, Liebeserklärungen (essays) 1969, Männer, die Gedichte machen 1970, Die Erzählungen 1971, Tot oder lebendig (poems) 1971, Deutsche Gedichte seit 1960 (editor) 1972, Helle Tage anderswo 1973, Gesammelte Gedichte 1974. *Address:* [illegible] Munich 13, Winzererstr. 49, Federal Republic of Germany.

PIORE, Emanuel Ruben, B.A., PH.D.; American physicist; b. 19 July 1908, Wilno, Poland (now Vilnius, U.S.S.R.); s. of Ruben and Olga Piore; m. Nora Kahn 1931; one s. two d.; ed. Univ. of Wisconsin; Chief Scientist U.S. Navy Office of Naval Research 1951-55; Vice-Pres. for Research, Avco Corpn 1955-56; Dir. of Research, Int. Business Machines Corpn., York 1956-60, Vice-Pres. for Research and Eng. 1960-63, Vice-Pres. and Group Exec. 1963-65, Vice-Pres. and Chief Scientist 1965-, mem. Board of Dirs.; mem. Nat. Science Board 1961-; Adjunct Prof., Rockefeller Univ.; Fellow, American Physical Soc., Inst. of Electrical and Electronics Engineers, American Acad. of Arts and Sciences, American Assen. for Advancement of Science, Royal Soc. of Arts (U.K.); [illegible] Nat. Acad. of Sciences, Nat. Sciences Board, Nat. Acad. of Eng., American Philosophical Soc.; consultant to President's Science Advisory Cttee.; [illegible] Board American Inst. of Physics, Stark Draper Lab., Nat. Information Bureau, SIAM, N.Y. State Foundation for Science; visiting cttees.; Joint M.I.T.-Harvard Medical Cttee.; [illegible] Board Science Research Assocs., Health Advancement Inc., Paul Revere Investors, Guardian Mutual Fund; Hon. D.Sc. (Union and Wisconsin); Kaplun Int. Prize; Industrial Research Inst. Medal 1967. *Address:* International Business Machines Corporation, Armonk, N.Y. 10504, U.S.A *Telephone:* 212-ENdicott 2-1772.

PIOTROVSKY, Boris Borisovich; Soviet historian; b. 1908-; ed. Leningrad State Univ.; scientific worker, Head of Section State Acad. of Material Culture (now Inst. of Archaeology), U.S.S.R. Acad. of Sciences 1929-53; Dir., Leningrad Branch, Inst of Archaeology, U.S.S.R. Acad. of Sciences 1953-54; Scientific Collaborator, Scientific Dir. of Eastern Dept., and Deputy Dir. for Scientific Matters, State Hermitage Museum, Leningrad 1931-61, Dir. 1961–; Prof. 1968-; [illegible] CPSU 1945-; Corresp. [illegible] Armenian Acad. of Sciences; Honoured Art Worker of Armenia 1961; Academician, U.S.S.R. Acad. of Sciences 1970-; Hon. mem. Prehistory and Protohistory Soc. of Florence; Corresp. [illegible] British Acad. 1967; Dr. h.c. (Delhi); State Prize, Red Banner of Labour (three times). *Main works:* History and archaeology of Ancient East and Caucasus; in charge of excavations at Urart Fortress, Erevan (Armenia) 1939-; directed U.S.S.R. Acad. of Sciences archaeological expedition in Nubia (Egypt) 1960-62; [illegible] 120 scientific works, incl. History and Culture of Uraratu (State Prize) 1946. *Address:* State Hermitage, 34 Dvortsovaya naberezhnaya, Leningrad, U.S.S.R.

PIPER, Bright Harold (Peter), C.B.E.; British banker; b. 22 Sept. 1918, Guildford, Surrey; s. of Robert Harold Piper and Daisy Homewood; [illegible] 1st Marjorie Joyce Arthur 1945 (dissolved 1979); [illegible] s. one d.; [illegible] 2nd Leonie Mary Lane; ed. Maidstone Grammar School; joined Lloyds Bank Ltd. 1935, Asst. Gen. Man 1963-65, Joint Gen. Man. 1965-68, Asst. Chief Gen. Man. 1968-70, Deputy Chief Gen. Man. 1970-73, Dir. 1970-, Chief Gen. Man 1973, Group Chief Exec. Lloyds Bank Group 1973-78, Dir. Lewis' Bank 1969-75, Dir. Lloyds and Scottish 1970-75, Chair. Lloyds First Western (U.S.) 1973-78. *Leisure interest:* sailing. *Address:* Greenways, Hawkshill Close, Esher, Surrey, England. *Telephone:* Esher 64356.

PIPER, David Towry, C.B.E, M.A., F.S.A.; British [illegible] director and writer; b. 21 July 1918, London; [illegible] of late Prof. S. H. Piper and Mary Piper; m. Anne Richmond 1945; [illegible] s. three d.; ed. Clifton Coll. [illegible] St. Catharine's Coll., Cambridge; served in Indian Army 1940-45, Japanese Prisoner-of-War 1942-45; Asst. Keeper Nat. Portrait Gallery, London 1946-64, Dir. 1964-67; Slade Prof. of Fine Art, Oxford Univ. 1966-67; Dir. Fitzwilliam Museum, Cambridge 1967-73, Ashmolean Museum, Oxford 1973-; Clark Lecturer, Cambridge Univ. 1977-78; Fellow Worcester Coll. Oxford 1973-; [illegible] Royal Fine Art Comm. *Publications:* The English Face 1957, Catalogue of 17th Century Portraits in the National Portrait Gallery 1963, Companion Guide to London 1964, Enjoying Paintings (Editor) 1964, Painting in England, 1500-1880 1965, Shades 1970, London (World Cultural Guide series) 1971, The Genius of British Painting (Editor) 1975, The Treasures of Oxford 1977; novels (as Peter Towry) incl. It's Warm Inside 1953, Trial By Battle 1959. *Address:* Ashmolean Museum, Beaumont Street, Oxford, England.

PIPER, John, C.H.; British painter and author; b. 13 Dec. 1903; ed. Epsom Coll. and Royal Coll. of Art; exhibited London 1925-; paintings bought by Tate Gallery, Victoria and Albert Museum, Contemporary Art Society, etc.; war artist, commissioned to paint ruins of House of Commons 1941, and two series of water-colours for H.M. The Queen 1942-43; Trustee of Tate Gallery 1946-53, 1954-61, 1968-74; mem. Royal Fine Art Comm. 1959-78; Trustee, Nat. Gallery 1967-74, 1975-; designer of opera and ballet (London, Milan and Venice), of stained glass (Oundle Coll. Chapel, Coventry Cathedral, St. Andrew's, Plymouth, Eton Coll. Chapel, etc.); Retrospective Exhbn., Cologne 1965; Hon. D.Litt. (Oxford and Leicester); Hon. A.R.C.A.; Hon. A.R.I.B.A.; Hon. F.R.I.B.A. *Publications:* Shell Guide to Oxfordshire 1938, Brighton Aquatints 1939, British Romantic Painters 1942, Buildings and Prospects; Romney Marsh (King Penguin series, with [illegible] water-colours); *and with John Betjeman:* Architectural Guide to Buckinghamshire, Architectural Guide to Berkshire; (illustrated) The Castles on the Ground by J. M. Richards 1973; Lincolnshire Churches (co-author) 1976. *Address:* Fawley Bottom Farmhouse, nr. Henley-on-Thames, Oxon., England.

PIPER, Klaus; German publisher; b. 27 March 1911; ed. Maximilians-Gymnasium, Munich; with R. Piper [illegible] Co., Munich (book publishers) 1932-, Partner 1941-53, sole Managing Dir. 1953-; [illegible] Finance Cttee. of German Booksellers Assen., Central PEN of Fed. Repub. of Germany, Rotary Club, Assen. of Literary Publishers, Max-Planck-Gesellschaft zur Förderung der Wissenschaften; Golden Cultural Medal, Italian Ministry of Foreign Affairs 1963, Distinguished Service Cross, First Class, Fed. Repub. of Germany. *Publications:* Offener Horizont 1953, Nach 50. Jahren 1954, Stationen—Piper-Almanach 1904-1964 1964, Piper-Almanach 1964-74 1974; Editor: Reinhard Piper Mein Leben als Verleger 1964, Erinnerungen [illegible] Karl Jaspers (co-editor). *Address:* R. Piper & Co. Verlag, Georgenstrasse 4, 8 Munich 40, Federal Republic of Germany.

PIPKIN, Charles Harry Broughton, C.B.E.; British company executive; b. [illegible] Nov. 1913, London; s. of Charles Pipkin and Charlotte Phyllis (née Viney) Pipkin; m. Viola Byatt 1941; [illegible] s. [illegible] d.; ed. Christ's Coll., Blackheath, and Faraday House; joined Callender's Cable and Construction Co., Erith, Kent 1935; served Royal Electrical and Mechanical Engineers 1940-46, attaining rank of Maj.; personal asst. to [illegible] Dir. British Insulated Callender's Cables (now BICC) Ltd. 1946-48, Man. Special Business Arrangements 1948-52, Man. Home Sales 1952-58, Commercial Man. Home 1958-

60, [illegible] Exec. Dir. 1960-68, Man. Dir. U.K. Cables Group 1968-73, Chief Exec. and [illegible] Deputy Chair. 1973-76, Chair. BICC Ltd. Jan. 1977-; Pres. British Non-Ferrous [illegible] Fed. 1965-66, British Cable Makers' Confed. 1967-68, British Electrical and Allied Mfrs.' Assn. Ltd. 1975-76. *Leisure interests:* travel, reading, racing. *Address:* BICC Ltd., 21 Bloomsbury Street, London, WC1B 3QN (Office); The Old Manor House, Bledington, Kingham, Oxon., OX7 6UZ (Home); and Flat 3, Avonhurst, 76 Camden Park Road, Chislehurst, BR7 5HQ, England. *Telephone:* 01-637 1300 (Office); Kingham 447; and 01-467 4875.

PIPPARD, Sir Alfred Brian, Kt., M.A., PH.D., SC.D., F.R.S.; British prof. of physics; b. 7 Sept. 1920, London; [illegible] of Prof. A. J. S. Pippard, F.R.S. and Mrs. F. L. O. (Tucker) Pippard; m. Charlotte Frances Dyer 1955; three d.; ed. Clifton Coll., and Clare Coll., Cambridge; Scientific Officer Radar Research and Devt. Establishment 1941-45; Demonstrator in Physics, Cambridge Univ. 1946, Lecturer 1950, Reader 1959-60, J. H. Plummer Prof. of Physics 1960-71; Cavendish Prof. of Physics 1971-; Pres. of Clare Hall, Cambridge 1966-73; Pres. Inst. of Physics 1974-76; Hughes Medal (Royal Soc.) 1959, Holweck Medal 1961, Dannie-Heineman Prize (Göttingen) 1969, Guthrie Medal (Inst. of Physics) 1970. *Publications:* Elements of Classical Thermodynamics 1957, Dynamics of Conduction Electrons 1962, Forces and Particles 1972, Physics of Vibration 1978; many papers in Proceedings of the Royal Society, etc. *Leisure interest:* music. *Address:* 30 Porson Road, Cambridge, England. *Telephone:* Cambridge 58713.

PIRBHAI, Count Sir Eboo, Kt., O.B.E.; company director; b. 25 July 1905, Bombay; [illegible] of Pirbhai, by his wife Kuvarbai; m. Kulsumbai, d. of Karmali Nathoo, 1925; three [illegible] (one decreased) three d.; ed. Duke of Gloucester School, Nairobi; Rep. of Aga Kahn; [illegible] Nairobi City Council 1938-43; [illegible] Legis. Council, Kenya 1952-60; Pres. Muslim Assen.; Pres. Aga Khan Supreme Council, Africa, Europe, Canada and the U.S.A.; granted title County by Aga Khan 1954; [illegible] other official bodies; Brilliant Star of Zanzibar 1956, Order of the Crescent Cross of the Comores 1966. *Address:* P.O. Box 40898, Nairobi; and 12 Naivasha Avenue, Muthaiga, Nairobi, Kenya.

PIRELLI, Leopoldo; Italian businessman; b. 27 Aug. 1925; Chair. Pirelli S.p.A., Milan, Industrie Pirelli S.p.A.; Man. Dir. Pirelli and Co., Milan; Dir. Soc. Int. Pirelli, Basel, Dunlop Holdings Ltd., London, Dunlop Ltd., London, Mediobanca, Milan, Generale Industrie Metallurgiche, Florence, Riunione Adriatica di Sicurtà S.p.A., Milan, Ital-consult, Rome, I.S.P.I., Milan; Vice-Pres. Museo dell'Automobile, Turin. *Address:* "Centro Pirelli", Piazza Duca d'Aosta 3, Milan, Italy.

PIRES, Commdt. Pedro Verona Rodrigues; Cape Verde politician; b. 29 April 1934, Ilha do Fogo; s. of Luís Rodrigues Pires and Maria Fidalga Lopes Pires; m. Adélcia Maria da Luz Lima Barreto Pires, one d.; ed. Licee Gil Eanes de São Vicente, Faculty of Science, Lisbon Univ. Portugal; left Portugal to join Partido Africano da Independência do Guiné [illegible] Cabo Verde (PAIGC) 1961; [illegible] PAIGC dels. 1961-63; involved in preparation for liberation of Cape Verde 1963-65; [illegible] Cen. Cttee. of PAIGC 1965-, of Council of War, PAIGC 1967-; re-elected [illegible] of Commissáo Permanente do Comité Executive da Luta (CEL) and of Council of War 1970; involved in administration of liberated [illegible] of southern Guinea Bissau 1971-73; Pres. Nat. Comm. of PAIGC for Cape Verde 1973 (reaffirmed as mem. of Council of War and CEL), appointed an Asst. State Commr. in first govt. of Repub. of Guinea-Bissau 1973-74; negotiated independence agreements of Cape Verde and Guinea-Bissau 1974; dir. PAIGC policies during transitional govt. before independence of Cape Verde 1975; elected Deputy in Nat. Popular Ass. of Cape Verde June 1975-; Prime Minister of Cape Verde July 1975-; [illegible] Perm. Comm. of CEL 1977; Amilcar Cabral Medal 1976. *Address:* Gabinete do Primeiro Ministro, Gov[illegible] da Republica de Cabo Verde, Praia, Republic of Cape Verde.

PIRLOT DE CORBION, Edmond; French engineer; b. 1 June 1916, Bournemouth, England; s. of André and Louisa (née Meeus) Pirlot de Corbion; m. Irène Voruz de Vaux 1940; three c.; ed. Ecole Saint-Louise-de-Gonzague, Lycée Janson-de-Sailly and Ecole Nat. Supérieure des Mines de Paris; worked for Cie. de Saint-Gobain 1943; Engineer, Chantereine Glassworks 1943-47, Franière Glassworks, Belgium 1947-50, Stolberg Glassworks, Germany 1950-53; Principal Engineer, Chantereine Glassworks 1953-56, Head Office, Cie. de Saint-Gobain 1956-59; Dir.-Gen. Saint-Gobain (America) 1960-64, Saint-Roch Glassworks, Belgium 1965-67; Admin. Cie. de Saint-Gobain 1967, Vice-Pres./Dir.-Gen. 1969, Vice-Pres./Div. Gen., Cie. de Saint-Gobain-Pont-à-Mousson 1970-; Pres. Saint-Gobain Industries 1970-75; Dir. Cellulose du Pin 1969-, Saint-Roch Glassworks, Cristaleria Española S.A., Pont-à-Mousson S.A., Davum. *Leisure interests:* tennis, walking, hunting. *Address;* 54 avenue Hoche, 75 Paris 8e; 104 boulevard de courcelles, 75 Paris 17e, France (Home).

PIRZADA, Abdul Hafiz; Pakistani lawyer and politician; b. 24 Feb. 1935, Sukkur; ed. D. J. Sindh Govt. Science Coll. and in U.K.; called to the Bar, Lincoln's Inn, London 1957; commenced legal practice in High Court of W. Pakistan, Karachi 1957 and joined Chambers of Zulfikar Ali Bhutto 1957-58; Advocate, W. Pakistan High Court and Supreme Court of Pakistan; mem. Cen. Cttee. Pakistan People's Party; [illegible] Nat. Assembly 1970-; Minister of Law and Parl. Affairs, Educ. and Provincial Co-ordination 1971-74, of Educ., Science, Technology and Provincial Co-ordination 1974-76, of Educ. and Provincial Co-ordination 1976-77, of Finance April-July 1977. *Leisure interest:* sport. *Address:* Sukkur, Sind, Pakistan.

PIRZADA, Sharifuddin, LL.D., S.PK.; Pakistani lawyer and politician; b. 12 June 1923; ed. Univ. of Bombay; Sec. Muslim Students' Fed. 1943-45; Sec. Provincial Muslim League 1946; Man. Editor Morning Herald 1946; Prof., Sind Muslim Law Coll., Karachi 1947-55; Adviser to Constitution Comm. of Pakistan 1960; Chair. Pakistan Company Law Comm. and mem. Int. Rivers Cttee. 1960; Pres. Pakistan Branch Int. Law Assen. and Pres. Legal Aid Soc.; Pres. Karachi Bar Assen.; Senior Advocate, Supreme Court of Pakistan; Attorney-Gen. of Pakistan 1964-66, 1968-71, July 1977-; Minister of Law and Parl. Affairs April 1979-; Minister of Foreign Affairs 1966-68. *Publications include:* Evolution of Pakistan, Fundamenta, Rights and Constitutional Remedies in Pakistan, Foundations of Pakistan Vol. I 1969, Vol. II 1970. *Address:* C-37, K.D.A. Scheme No. 1, Habib Ibrahim Rahimtoola Road, Karachi, Pakistan.

PISANI, Edgard; French politician; b. [illegible] Oct. 1918, Tunis, Tunisia; m. Isola Chazereau; three s. [illegible] d.; ed. in Tunis and Paris; Resistance during World War II; Prefect-Dir. de Cabinet of Chief Commr. of Police 1944-45; Dir. de Cabinet of Minister of the Interior 1946; Prefect, Upper Loire 1946-47, Upper Marne 1947-54; Senator, Upper Marne 1954-61, 1974-; Minister of Agric. 1961-66, of Equipment 1966-67; County councillor and Mayor of Montreuil-Bellay 1963-75; mem. Comm. for Foreign Affairs and Defence; mem. Socialist Group. *Publications:* La région: pour quoi faire?, Le général indivis, Utopie foncière, Socialiste de raison. *Address:* Valpuiseaux, 91720 Maisse, France. *Telephone:* 495-87-54.

PITA DE VEIGA Y SANZ, Adm. Gabriel; Spanish naval officer; b. 31 Jan. 1909, Ferrol del Caudillo; m. Amalia Jaudenes García 1936; nine s.; ed. Naval Mil. School; Lieut. Spanish Navy 1937, Lieut.-Commdr. 1944, Commdr. 1951, Capt. 1962; Vice-Pres. Study and Planning Comm. of the Fleet; Rear-Adm. 1967; Deputy Chief of Staff of the Navy 1969; Vice-Adm. 1970; Commdr.-Gen. of the Fleet 1971; Adm., Chief of Staff of the Navy 1972; Minister for the Navy 1973-77; [illegible] Parl. 1973-; Grand Cross of Naval Merit, Order of San Hermenegildo, Order of Civil Merit (Peru), Order of Merit (Italy), and many others. *Address:* c/o Ministerio de Marina, Paseo del Prado 1, Madrid, Spain. *Telephone:* 2-34-32-33.

PITBLADO, Sir David B., K.C.B., C.V.O.; British government official; b. 18 Aug. 1912, London; [illegible] of Robert P. Pitblado and Mary (née Sear); m. Edith Mary Evans 1941 (died 1978); one s. one d.; ed. Strand School, London, Emmanuel Coll., Cambridge and Middle Temple; Dominions Office 1935-39, Asst. Private Sec. to Sec. of State for Dominions Affairs 1937; N. American Secr. War Cabinet Office 1942; joined Treasury 1942; U.K. del. San Francisco Conf. 1945, and UN meetings 1946; Under-Sec. Econ. Planning Staff, Treasury 1949-51; Principal Private Sec. to Prime Minister (Lord Attlee, Sir Winston Churchill, Lord Avon) 1951-56; Financial Attaché, British Embassy, Wash.; Alt. Exec. Dir. IBRD 1956-58; Vice-Chair. Management Board of European Payments Union and Monetary Agreement 1958-60; Third Sec. Treasury 1960; Exec. Dir. for U.K. of IBRD, and of IMF; Head of U.K. Treasury and Supply Del., and Econ. Minister, British Embassy, Washington 1961-63; Deputy-Sec., Ministry of Power 1965-66; Perm. Sec. Ministry of Power 1966-69; Perm. Sec. (Industry) Ministry of Technology 1969-70; Second Perm. Sec. Civil Service Dept. 1970-71, Comptroller and Auditor-Gen. 1971-76; Hon. Fellow, Emmanuel Coll., Cambridge. *Address:* 23 Cadogan Street, London, S.W.3, England. *Telephone:* 01-589 6765.

PITMAN, Sir (Isaac) James, K.B.E., M.A.; British fmr. publisher and politician; b. 14 Aug. 1901, London; s. of Ernest Pitman and Frances Isabel (Butler); [illegible] Margaret Beaufort Lawson Johnson; three s. [illegible] d.; ed. Eton and Christ Church, Oxford; joined Sir Isaac Pitman and Sons Ltd. 1923, Chair. and Man. Dir. 1934-66; served R.A.F. 1940-43, admin. duties, Air Ministry; Dir. Bank of England 1941-45; Dir. of Organization, Treasury 1943-45; Conservative M.P.

for Bath 1945-64; Pro-Chancellor of Bath Univ. 1966-; Dir. Boots Pure Drug Co. Ltd. 1951-72, Bovril Ltd. 1949-71; invented and introduced the Initial Teaching Alphabet; Chair. Initial Teaching Alphabet Foundation; Vice-Pres. British and Foreign School Soc., British Assen. for Commercial and Industrial Educ., Inst. for Administrative Man. 1965-69; Hon. Pres. Parl. Group for World Govt.; Hon. D.Litt (Hofstra, U.S.A., Strathclyde and Bath). *Address:* Holme Wood, Chisbridge Cross, nr. Marlow, Bucks.; and [redacted] Chelsea Park Gardens, London, SW3 6AE, England. *Telephone:* (Marlow) 0494-881260; (Chelsea) 01-352 7004.

PITT, Sir Harry Raymond, Kt., PH.D., F.R.S.; British mathematician and university administrator; b. 3 June 1914; s. of H. Pitt; m. Clemency C. Jacoby 1940; four s.; ed. King Edward's School, Stourbridge and Peterhouse, Cambridge; Bye-Fellow, Peterhouse Cambridge 1936-39; Choate Memorial Fellow, Harvard Univ. 1937-38; Univ. of Aberdeen 1939-42; Air Ministry and Ministry of Aircraft Production 1942-45; Prof. of Math., Queen's Univ., Belfast 1945-50; Deputy Vice-Chancellor, Univ. of Nottingham 1950-64; Visiting Prof., Yale Univ. 1962-63; Vice-Chancellor, Univ. of Reading 1964-79; Chair. Univs' Central Comm. on Admissions, and Standing Conf. on Univ. Entrance Oct. 1975-79; Hon. LL.D. (Nottingham, Aberdeen); Hon. D.Sc. (Reading). *Publications:* Tauberian Theo[redacted] 1957, Measure, Integration and Probability 1963; papers in scientific journals. *Address:* c/o The University, Reading, Berks., England.

PITTALUGA, Luigi; Italian iron and steel executive; b. 1919, Genoa; joined Esso Standard Italiana 1949; Dir. in charge of financial, administrative, fiscal and legal fields and of economic research office for business planning of the Esso Group, Italy 1965-; Chair. and Man. Dir. La Columbia shipping Co.; mem. of board Raffineria Siciliana Olii Minerali; Man. Dir. SVIT (Soc. Isola del Tronchetto [redacted] Venezia); [redacted] of board of free shipowners' assen.; Man. Dir. ITALSIDER 1972-77, Vice-Pres. 1977-, Dir.-Gen. 1977-78; Pres. SIDERMAR S.p.a.; Grand Officer al Merito della Repubblica. *Address:* ITALSIDER, via Corsica 4, 16128 Genoa, Italy.

PITTENDRIGH, Colin Stephenson, PH.D.; American professor of biology; b. 13 Oct. 1918, Whitley Bay, Northumberland, England; s. of Alexander Pittendrigh and Florence Hemy Stephenson; m. Margaret Eitelbach 1943; [redacted] s. one d.; ed. Univ. of Durham, England; at Int. Health Div. of Rockefeller Foundation 1942-45; at Princeton Univ. (posts included Prof. of Zoology and Dean of Graduate School) 1947-69; Prof. of Biology Stanford Univ. 1969-, Prof. of Human Biology 1970-76, Dir. Hopkins Marine Station and Harold A. Miller Prof. of Biology 1976-; mem. Nat. Acad. of Sciences. *Publications include:* Life (with George Gaylord Simpson and Lewis Tiffany) 1957; and journal papers. *Leisure interest:* dry-fly fishing. *Address:* Hopkins Marine Station, Department of Biological Sciences, Stanford University, Pacific Grove, Ca. 93950; 26240 Jeanette Road, Salinas, Ca. 93901, U.S.A. (Home).

PITTER, Ruth; British poet; b. 7 Nov. 1897, Ilford, Essex; d. of George Pitter and Louisa R. Murrell; ed Coborn School, London; junior clerk War Office 1917-18; painter of furniture, etc. Suffolk and London 1918-30; own business in partnership with Kathleen O'Hara 1930-43; war-work at The Morgan Crucible Co., Battersea, London 1943-45; worked at home 1945-; Hawthornden Prize for A Trophy of Arms 1937; Heinemann Award 1954; Queen's Medal for Poetry 1955; C. Lit. 1974; Hon. F.R.S.L. *Publications:* First Poems 1920, First and Second Poems 1927, Persephone in Hades (privately printed) 1931, A Mad Lady's Garland 1934, A Trophy of Arms 1935, The Rude Potato 1941, The Bridge 1945, Pitter on Cats 1946, Urania 1951, The Ermine 1953, Still by Choice 1966, Poems 1926-1946 1968, End of Drought 1975. *Leisure interests:* gardening, cosmic curiosity, cooking. *Address:* The Hawthorns, 71 Chilton Road, Long Crendon, nr. Aylesbury, Bucks., England. *Telephone:* Long Crendon 208373.

PITZER, Kenneth Sanborn, PH.D.; American professor of chemistry; b. [redacted] Jan. 1914, Pomona, Calif.; s. of Russell and Flora S. Pitzer; m. Jean E. Mosher 1935; two s. one d.; ed. Calif. Inst. of Technology, Univ. of California; Instructor, Univ. of Calif., later Prof. of Chemistry 1937-61; Technical Dir. Maryland Research Lab., Wash. 1943-44; Asst. Dean, Coll. of Letters and Science 1947-48; Dir. of Research, Atomic Energy Comm., Wash. 1949-51; Dean, Coll. of Chem. 1951-60; Pres. and Prof. of Chem., Rice Univ., Houston 1961-68; Pres. and Prof. of Chem., Stanford Univ., Calif. 1968-70; Prof. of Chem., Univ. of Calif., Berkeley 1971-; mem. Gen. Advisory Cttee. Atomic Energy Comm. 1958-65, Chair. 1960-62; Dir. Federal Reserve Bank of Dallas 1965-68; Trustee RAND Corpn. 1962-72, Pitzer Coll. 1966-, Carnegie Fund for Advancement of Teaching 1966-; [redacted] Board of Dirs. Owens-Illinois 1967-, Ameri[redacted] Council on Educ. 1967-70, Nat. Acad. of Sciences (mem. Council 1964-68, 1973-76), Comm. on Nat. Resources 1973-74; Hon. LL.D. (Univ. of Calif. and Mill[redacted] Coll.), Hon. D.Sc. (Wesleyan Univ.); Priestley Medal, American Chem. Soc. 1969, Nat. Medal of Science (U.S.A.) 1975. *Publications:* Selected Values of Physical and Thermodynamic Properties of Hydrocarbons and Related Compounds 1947, Quantum Chemistry 1953, Thermodynamics (with L. Brewer) 1961. *Leisure interest:* sailing. *Address:* 12 Eagle Hill, Berkeley, Calif., U.S.A.

PLACE, John B. M.; American business executive; b. 21 Nov. 1925; [redacted] of Hermann G. and Angela Toland Place (née Moore); m. Katharine Smart; one s. two d.; ed. St. Paul's School, Concord, N.H., The Citadel and New York Univ.; with Chase Manhattan Bank 1946-71, Asst. Treas. 1950, Second Vice-Pres. 1953, Vice-Pres. 1956, Senior Vice-Pres. 1959, with Int. Dept. 1963, with Metropolitan Dept. 1965, Exec. Vice-Pres. 1965, Head U.S. Dept. 1967, Vice-Chair., mem. Exec. Office, Head of Domestic and Int. Banking 1969-71; with Anaconda Co. 1971-, Pres., Chief Exec. Officer and Chair. 1971-77; Exec. Vice-Pres. Atlantic Richfield Inc. 1977-; Dir. Anaconda Co., Chemical New York Corpn., Chemical Bank, Lever Bros. Co., Metropolitan Life Insurance Co., Union Pacific Corpn., and others; Vice-Pres. Int. Copper Research Assen. Inc.; Dir. American Mining Congress, Copper Devt. Assen.; [redacted] Council [redacted] Foreign Relations, N[redacted] York Chamber of Commerce; Hon. D. Eng. (Colorado School of Mines) 1973; Grand Cross Order of Civil Merit (Spain) 1972, Man in Management Award, Pace Univ. 1975. *Address:* Atlantic Richfield Inc., 1271 Avenue of Americas, New York, N.Y. 10020 (Office); 215 East 68th Street, New York, N.Y. 10021, U.S.A. (Home).

PLAJA, Eugenio, J.D.; Italian diplomatist; b. [redacted] April 1914, Rome; m.; three s.; Vice-Consul Chambéry and Cannes 1938-43; diplomatic posts in Buenos Aires 1946; First Sec., Santiago 1950; Head EEC and NATO Affairs, Dept. of Int. Co-operation, Ministry of Foreign Affairs 1952; Counsellor, later Minister Counsellor and Deputy Perm. Rep., Perm. Mission to UN 1955-61; Deputy Dir.-Gen. for Political Affairs, Ministry of Foreign Affairs 1962-63, Dir.-Gen. for Emigration 1963-67, Dir.-Gen. of Personnel and Admin. 1967-69; Amb. to Egypt 1969-73; Perm. Rep. to UN 1973-75, Dir.-Gen. for Political Affairs 1975-76; Perm. Rep. to European Communities April 1976-. *Address:* Permanent Mission of Italy to the European Communities, 74 rue de la Loi, Brussels, Belgium.

PLANCHON, Roger; French theatrical director and playwright; b. 12 Sept. 1931, Ardèche; Founder Théâtre de la Comédie, Lyons; Dir. Théâtre de la Cité, Villeurbanne 1957-72; Dir. Théâtre Nat. Populaire 1972-; aims to popularize the theatre by extending its units and recreating the classics within [redacted] modern social context; Prix Ibsen (for Le cochon noir) 1974; Chevaliers des Arts et des Lettres; Croix de guerre. *Publications:* Plays: La remise 1961, Pattes blanches 1964, Bleus, blancs, rouges ou les Libertins 1967, Dans le vent 1968, l'infâme 1970, Le cochon noir 1973. *Address:* 8 [redacted] Michel-Servet, 69100 Villeurbanne, France.

PLANTA, Louis von, DR. JUR.; Swiss pharmaceuticals executive; b. 15 March 1917, Basel; ed. Univ. of Basel; Partner in Basel firm of lawyers 1946-; [redacted] Board J. R. Geigy S.A. 1965, Vice-Chair. 1967, Chair. 1968-70: Vice-Chair. of Board, Chief Man. Dir. and Chair. Exec. Cttee. CIBA-GEIGY Ltd. 1970-72, Chair. of Board May 1972-; Pres. Burlington AG; mem. Admin. Board, Brown, Boveri and Co., Swiss Bank Corpn.; Chair. Basel Chamber of Commerce 1969-76; Pres. Swiss Soc. of Chemical Industry 1969-76; [redacted] Bank Council and Bank Cttee., Swiss Nat. Bank; Pres. Swiss Fed. of Commerce and Industry, and Swiss Chamber of Commerce and Industry 1976-. *Address:* CIBA-GEIGY Ltd., CH-4002 Basel, Switzerland.

PLANTEFOL, Lucien, D. ÈS SC., LIC.PHIL.; French emeritus professor of botany; b. 24 Apr. 1891, Falaise, Calvados; ed. Ecole Normale Supérieure (Lettres et Sciences); Second Lieut. then Lieut. of Infantry 1914-18; Agrégépréparateur, Ecole Normale Supérieure 1920-23; Asst., then Asst. Dir., Coll. de France 1923-37; Lecturer in Plant Biology, Sorbonne 1937-42, Prof. of Botany 1942-61, Prof. Emer. 1961-; mem. Acad. des Sciences, Acad. royale, Belgium; Officier Légion d'honneur, Croix de guerre. *Publications:* La théorie des hélices foliaires multiples 1948, L'ontogénie de la fleur 1949, L'Académie des Sciences durant les trois premiers siècles de son existence, [redacted] visages successifs, [redacted] publications in Troisième Centenaire 1967. *Leisure interest:* history of science. *Address:* Laboratoire de Botanique, Sorbonne, 24 rue Lhomond, Paris 5e, France. *Telephone:* 329-12-25.

PLANTEY, Alain Gilles; French government official; b. 19 July 1924, Mulhouse; m. Christiane Wioland 1955; four d.; ed. Univs. de Bordeaux and Paris à la Sorbonne; Staff of Council of State 1949; French Del. to UN 1951-52; Master of Requests Council of State

1956-; Legal Adviser OEEC 1956-57; Prof. Ecole Royale d'Administration, Cambodia and Ecole Nationale d'Administration, Paris 1957-62; Gen. Sec. Agence France-Press 1958; Asst. Sec.-Gen. for the Community and African and Malagasy Affairs at the Presidency 1961-66; Amb. in Madagascar 1966-72; Asst. Sec.-Gen. WEU 1972-; Conseiller d'Etat 1974-; Council mem. Museum National d'Histoire naturelle; Vice-Chair. Int. Inst. of Law; numerous decorations. *Publications:* La réforme de la justice marocaine 1949, La justice Répressive et le droit pénal chérifien 1950, Au coeur du problème berbère 1952, Traité pratique de la fonction publique 1956, 1963 and 1971, La formation et le perfectionnement des fonctionnaires 1957, La communauté 1962, Indépendance et coopération 1964-77, Prospective de l'état 1975, Droit et pratique de la fonction publique international 1977, Réformes dans la fonction publique 1978. *Address:* 6 Avenue Sully-Prudhomme, Paris 7e, France. *Telephone:* 555-2649.

PLASKETT, Harry, F.R.S., M.A.; British astronomer; b. 5 July 1893, Toronto, Canada; s. of Dr. John Stanley Plaskett and Rebecca Hope Hemley; m. Edith Alice Smith 1921; one s. one d.; ed. Toronto Univ.; Astronomer Victoria Astrophysical Observatory 1919-27; Lecturer, Associate Prof. and Prof. of Astrophysics Harvard Univ. 1928-32; Savilian Prof. of Astronomy Oxford Univ. and Fellow New Coll 1932-60, Emer. Prof. 1960-; Pres. Royal Astronomical Soc. 1945-47, Gold Medal 1963. *Address:* 48 Blenheim Drive, Oxford, England. *Telephone:* Oxford 58109.

PLASTOW, David Arnold Stuart, F.B.I.M.; British business executive; b. 9 May 1932, Grimsby, Lincs.; s. of James Stuart Plastow and Marie Plastow; m. Barbara Ann May 1954; one s. one d.; ed. Culford School, Bury St. Edmunds; apprenticed Vauxhall Motors Ltd. 1950; joined Rolls-Royce Ltd., Motor Car Div. Crewe 1958, Marketing Dir. Motor Car Div. 1967-71, Man. Dir. 1971-72; Man. Dir. Rolls-Royce Motors Ltd. 1972-74, Group Man. Dir. 1974-; Regional Dir. Lloyds Bank 1974-76; Dir. Vickers Ltd. 1975–; Dir. GKN Ltd. 1978-; Pres. Soc. of Motor Mfrs. and Traders Ltd. 1976-78, Deputy Pres. 1978-79; Pres. Motor Industry Research Assn. 1978-; Vice-Pres. Inst. of Motor Industry; Chair. Grand Council, Motor and Cycle Trades Benevolent Fund 1976-78; mem. Eng Industries Council; Fellow British Inst. of Management; Patron, Coll. of Aeronautical and Automobile Eng.; Gov., Culford School, Bury St. Edmunds; Hon. D.Sc. (Cranfield Inst. of Tech.) 1978; Young Businessman of the Year Award (The Guardian) 1976. *Leisure interest:* golf. *Address:* Rolls-Royce Motors Limited, Pym's Lane, Crewe, Cheshire, CW1 3PL, England. *Telephone:* Crewe 55155.

PLATEN, Baron Carl Henrik G:son von. B.A., M.POL.SC.; Swedish diplomatist; b. 14 Dec. 1913, Malmö; s. of Baron Gösta von Platen ad Elsa Stina Hjorth; m. Mildred Ax:son Johnson 1950; two s. one d.; ed. Lunds Universitet, London School of Econs. and Université de Paris à la Sorbonne; entered Foreign Service 1939, served Moscow, Rome, Ankara, Washington, Geneva, Paris; Envoy and Perm. Rep. to UN and other int. orgs., Geneva 1959, Amb. 1960-63; Amb. at Large and Negotiator, UN Disarmament Conf. 1963; Swedish Rep. to OECD, Paris 1964-72, to UNESCO 1965-72; Chair. OECD Industry Cttee.; Chair, later, Board of Nya Asfalt AB, A. Johnson and Cie. (Pairs); Chair. of Dir.: Binab AB (Gothenburg), Binab GmbH (Hamburg), Saudi-Asfalt Construction Co. Ltd. (Riyadh). *Publication:* Diplomati och Politik 1966. *Address:* Ets. A. Johnson and Cie. (Paris), 48/50 rue Albert, 75013 Paris, and 124 boulevard Maurice Barrès, 92-Neuilly, France; Nynäs Gods Nynäshamn, Sweden. *Telephone:* 583-46-21 (Office); 747-71-83 (Home); 0752/12008 (Sweden).

PLATON, Dr. Nicolas; Greek archaeologist; b. Jan. 1909, Cephallonia; s. of Eleftherios and Angeliki Platon; m. Anastassia Logiadou 1952; one s. two d.; ed. Univ. of Athens and Ecole des Hautes Etudes pratiques supérieures, Paris; Asst. at Heraklion Museum, Crete 1930-35; Ephor of Antiquities in Beotia, etc. 1935-38; Ephor of Antiquities in Crete and Dri. Heraklion Museum 1938-62; Ephor of Antiquities and Dir. of Acropolis in Athens 1961-65; Gen. Ephor of Antiquities 1965; Prof. at Univ. of Salonika 1966-74, Univ. of Crete 1977-79; Hon. mem. German and Austrian Inst. of Soc. for Promotion of Hellenic Studies; many Greek Archaeological Soc., Soc. of Cretan Historical Studies; Knight Order of Phoenix, Greece; Commendatore al Merito della Repubblica Italiana; Major works include: execavations in Crete, Beotia, Euboea, Skopelos and the great excavation of the Minoan Palace, Zakros, East Crete; reorganized Heraklion Museum. *Publications:* Crete in Archaeologia Mundi, Geneva; Corpus Minoischer Siegel II, Vol. 1 1970, Vol. 2 1977, Zakros, Discovery of a Lost Palace in Ancient Crete 1971, Inscribed Tablets and Pithos of Linear A from Zakro (with Brice) 1975, and many scientific monographs. *Leisure interest:* music. *Address:* Léof. Alexandras 126, Athens, Greece. *Telephone:* 6469092 (Athens).

PLATT, Sir Harry, Bt., M.D., M.S., F.R.C.S., K.ST.J.; British surgeon; b. 7 Oct 1886, Thornham; s. of Ernest and Jessie C. (Lindsay) Platt; m. Gertrude Sarah Turney 1916; one s. four d.; ed. Manchester Univ. and U.S.A.; Capt. Royal Army Medical Corps (T.F.) 1915-19; Emer. Prof. of Orthopaedic Surgery, Univ. of Manchester; Consultant Adviser in Orthopaedics, Ministry of Health 1940-63; Pres. Royal Coll. of Surgeons of England 1954-57; Pres. Société Int. de Chirugie Orthopédique et de Traumatologie; Hon. Pres. Int. Fed. of Surgical Colls.; many American, French, Scandinavia, Italian, Neths., Australian, Argentine and Belgian Orthopaedic Societies; Hon. Fellow, Royal Coll. of Surgeons and American, Royal Edinburgh, Royal Canadian, Royal Australasian and South African Colls. of Surgeons; Hon. LL.D (Manchester, Liverpool and Belfast Univs.), Hon. M.D. (Berne), Docteur Honoris Causa (Univ. Paris) 1966. *Publications:* on orthopaedic surgery and medical education. *Leisure interests:* music and travel. *Address:* 11 Lorne Street, Manchester 13, Lancs., England. *Telephone:* 061-273 3433.

PLATTEN, Donald C.; American banker; ed. Princeton Univ.; joined Chemical Bank 1940, Asst. Sec. 1950. Asst. Vice-Pres. 1953, Vice-Pres. 1957, Senior Vice-Pres. 1964 Exec. Vice-Pres. in charge of Int. Division 1967; Pres. Chemical New York Corpn. and Chemical Bank 1972-73; Chair. Chemical Bank Feb. 1973-; Dir. Associated Dry Goods Assn., CPC International Inc., Thomson Newspapers Inc.; mem. Assn. of Reserve City Bankers, Council on Foreign Relations Inc.; Chair. Goodwill Industries of Greater New York Inc.; Charter Trustee, Princeton Univ.; Trustee, American Univ. in Beirut, Collegiate School of New York City; Dir. Spencer Foundation, Chicago; Board of Trustees, the Presbyterian Hosp. *Address:* Chemical Bank, 20 Pine Street, New York, N.Y. 10015, U.S.A.

PLATTNER, Karl; Italian painter; b. 13 Feb. 1919; ed. Acad. of Florence, Brera Acad. Milan and Art Acad. Paris; one-man exhbns. at Merano, Bolzano, Verona, Innsbruck, Stuttgart, Munich, São Paulo, Rio de Janeiro, Chicago, Paris, Rome, Milan and Vienna 1951-66 and other European cities; Group shows in Germany, Italy, Brazil, France, Uruguay and Sicily, including Biennali at Venice and São Paulo; numerous prizes. *Major Works:* Fresco for War Memorial, Naturno, Italy 1951; Fresco for Prov. Council Bldg., Bolzano 1954-55; Panel for Folhas Newspaper bldg. São Paulo and for Air France São Paulo 1955-56; Panel for new Festival Hall Salzburg 1960-61; Fresco for Europa Chapel, near Innsbruck 1963-64; Panel for Austria A.G. Bldg., Vienna 1965. *Address:* Piazza Borromeo 8, Milan, Italy. *Telephone:* 875927.

PLATTS, John H.; American businessman; b. 19 Nov. 1917, Detroit, Michigan; s. of Ralph E. and Mary E. Platts; m. Dorothea M. Sleeper 1940; three d.; ed. Univ. of Toledo; joined Whirlpool Corpn., St. Joseph Div. as assemblyman 1941, later tool engineer, buyer, Man. refrigeration plant, Dir. of purchases and Works Man.; Man. laundry sales to Sears Co.; Gen. Man. Evansville Div. 1957-59, Vice-Pres. 1959-60; Vice-Pres. Refrigeration Product Group 1960-62; Pres. Whirlpool Corpn. 1962-77, Chair. of Board and Chief Exec. Officer 1971-; mem. American Soc. of Heating and Refrigeration Engineers; The Conf. Board 1967-; Dir. Sears Bank and Trust Co., Clark Equipment Co., Shell Oil Co.; mem. Nat. Execs., Cttee. of Nat. Council on Crime and Delinquency; mem. Advisory Council, Univ. of Notre Dame Coll. of Eng.; Trustee, Albion Coll. *Address:* Whirlpool Corporation, Administrative Center, Benton Harbor, Michigan 49022, U.S.A. *Telephone:* (616) 926-3212 (Office); (616) 983-5472 (Home).

PLÁVKA, Andrej; Czechoslovak (Slovak) writer; b. 18 Nov. 1907, Liptovský Mikuláš; ed. Faculty of Law, Charles Univ., Prague; Sec. Y.M.C.A. in Lučenec, Hradec Králové, Bratislava and Banská Bystrica 1931-45; Deputy Commr., Office for Information, Bratislava 1945-46, mem. Presidium of Board of Commrs. and Counsellor of Dept. 1946-49; Dir. Tatran Publishing House 1949-68; Sec. of Nat. Front 1946-47; mem. Cen. Cttee. CP of Slovakia 1958-66; Vice-Chair. Union of Slovak Writers 1969, Chair. 1969-, mem. Presidium 1969-; mem. Nat. Editorial Council of Slovak Socialist Repub. 1970-; Vice-Chair. Union of Czechoslovak Writers 1973-; Order of Slovak Nat. Rising, Honoured Artist 1957; Klement Gottwald State Prize 1959, 1972, Order of Labour 1967, Vít Nejedlý Prize 1969, National Artist 1971, Order of St. Cyril and Methodis (Bulgaria) 1975. Order of Victorious February 1977, Order of Friendship of Nations, U.S.S.R. *Publications:* sixteen vols. of poetry, including Three Rods from Liptov 1940, Bonfires on the Mountains 1947, Green Shoot 1950, Three Waters 1954, Liptov Fife 1957, Farewell My Loves 1967, Comeback 1975; 5 prose works including St. Paul's Conversion 1941. *Address:* Bratislava, Tvarožkova 9, Czechoslovakia.

PLAYER, Gary (-Jim); South African professional golfer; b. 1 Oct. 1936, Johannesburg; s. of Francis Harry Audley Player and

Muriel Marie Ferguson; m. Vivienne Verwey 1957; two s. four d.; first overseas player for 45 years to win U.S. Open Championship 1965; Winner, British Open Championship 1959, 1968, 1974, Piccadilly World Match Play Champion 1965, 1966, 1968, 1971, 1973; U.S. Open Champion 1965; U.S. Masters Champion 1961, 1974, 1978; U.S. Professional Golf Assn. Champion 1962, 1972; third player ever to win all four major World professional titles; holds world record for lowest 18-hole score in any Open Championship (59 in the Brazilian Open 1974). *Address:* Mark McCormack Agency, 58 Queen Anne Street, London, W1M 0DX, England. *Telephone:* 01-493 0816.

PLAYFAIR, Sir Edward Wilder, K.C.B.; British company director and former government official; b. 17 May 1909, London; s. of Dr. E. Playfair; m. Dr. M. L. Rae 1941; three d.; ed. Eton and King's Coll., Cambridge; Inland Revenue 1931-34; Treasury 1934-36, 1947-56 (Control Office for Germany and Austria 1946-47); Perm. Under-Sec. of State for War 1956-59; Perm. Sec. Ministry of Defence 1960-61; Chair. Int. Computers and Tabulators Ltd. 1961-65; Dir. Equity and Law Life Assurance Soc., Tunnel Holdings; Trustee, Nat. Gallery 1967-74 (Chair. Board of Trustees 1972-74). *Address:* 12 The Vale, Chelsea, London, SW3 6AH, England. *Telephone:* 01-352 4671.

PLAYFORD, Sir Thomas, G.C.M.G.; Australian politician; b. 5 July 1896; ed. Norton Summit Public School; served Australian Imperial Forces First World War; M.P. for Murray District 1933, for Gumeracha District 1938-66; Commr. for Crown Lands and Minister of Irrigation and Repatriation, S. Australian Govt. April-Nov. 1938, Premier, Treas. and Minister of Immigration, S. Australian Govt. 1938-65; Leader of Opposition 1965-66; Leader Liberal Country League. *Address:* Norton Summit, South Australia 5136, Australia.

PLAZA (Lasso), Galo; Ecuadorean politician; b. 17 Feb. 1906, New York; s. of Leonidas and Avelina (Lasso) Plaza Gutiérrez; m. Rosario Pallares Zaldumbide 1933; one s. five d.; ed. Colegio Nacional Mejia, Univs. of Calif. and Maryland and Georgetown Univ. Foreign Service School; Attaché, Washington 1930; mem. Municipal Council Quito 1937-38, Mayor 1938; Minister of Nat. Defence 1939-40; Amb. to U.S.A. 1944-45; Senator 1947; Pres. of Republic of Ecuador 1948-52; Chair. UN Observer Group in Lebanon 1958, UN "BASIC" Cttee. in the Congo 1960, ECLA Latin American Common Market Cttee. 1958-59; UN Sec.-Gen. Rep. in Cyprus 1964; UN Mediator in Cyprus 1964-65; Sec.-Gen. OAS 1968-75; hon. degrees (Univ. of Maryland and New School for Social Research, New York, Columbia Univ., New York, Washington Univ., Williams Coll., New Mexico and Harvard Univs., Hamilton College); decorations from U.S.A., Mexico, Venezuela, Guatemala, Colombia, Chile, Costa Rica, Cuba, Bolivia, China, Peru, Paraguay; awards include Foundation of Americas Award 1955, Haas International Award (Univ. of Calif.) 1967, Key Man of Americas Award 1969, Theodore Brent Prize. *Publications:* The Problems of Democracy in Latin America 1955, The United Fruit Company in Latin America (co-author) 1958, Latin America Today and Tomorrow 1971. *Address:* Avenida 6 de Diciembre 1300, Quito, Ecuador.

PLEASENCE, Donald; British actor and producer; b. 5 Oct. 1919, Worksop; s. of Thomas Stanley Pleasence; m. 1st Miriam Raymond 1941, two d.; m. 2nd Josephine Crombie 1956, two d.; m. 3rd Meira Shore 1970, one d.; ed. Ecclesfield Grammar School, Yorkshire; made first stage appearance 1939; first London appearance in Twelfth Night at Arts Theatre 1942; R.A.F. 1942-46 (prisoner-of-war 1944-46); returned to stage in The Brothers Karamazov 1946, Peter Pan 1947; Perth Repertory Theatre 1947; Birmingham Repertory Theatre 1948-50; Bristol Old Vic Co. 1950-51; Right Side Up and Saints Day, London 1951; appeared in New York with Laurence Olivier's Co. 1951-52; Hobson's Choice Arts Theatre 1952; played in own play Ebb Tide at Edinburgh Festival and Royal Court Theatre, London 1952; Stratford-on-Avon season 1953; Antony and Cleopatra London 1953; The Rule of the Game 1955, The Lark 1955, Misalliance 1956, Restless Heart 1957, The Caretaker (London and New York) 1960, Poor Bitos (co-producer), The Man in the Glass Booth (co-producer) 1967, Tea Party, The Basement 1970, Wise Child (New York) 1972; numerous film appearances include The Beachcomber, Manuela, Heart of a Child, The Caretaker, The Greatest Story Ever Told, Fantastic Voyage, The Hallelujah Trail, The Great Escape, Doctor Crippen, Cul-de-Sac, Will Penny, The Mad Woman of Chaillot, Arthur! Arthur?, Soldier Blue, Jerusalem File, Pied Piper, Outback, The Black Windmill, Wedding in White, The Rainbow Boys, Mutations, Henry VIII, Malachi's Cove, Escape to Witch Mountain, Journey into Fear, The Count of Monte Cristo, Doctor Jekyll and Mr. Hyde, Hearts of the West, I Don't Want to be Born, Trial by Combat, The Devil's People, The Eagle Has Landed, The Last Tycoon 1976, Telefon, Devil Cat, Sergeant Pepper's Lonely Hearts Club Band, Blood Relatives, Power Play, Halloween; numerous television appearances in Britain and America including Armchair Theatre, Call Me Daddy, Columbo, The Captain of Köpenick; Television Actor of the Year Award 1958; London Critics Best Stage Performance Award 1960; Variety Club Award; Stage Actor of 1967. *Publications:* Scouse the Mouse 1977, Scouse in New York 1978; recorded version of Scouse the Mouse 1977. *Address:* 7 West Eaton Place Mews, London, S.W.1, England.

PLENDERLEITH, Harold James, C.B.E., M.C., B.SC., PH.D., F.R.S.E., F.S.A., F.B.A., F.M.S.; British chemist; b. 19 Sept. 1898; ed. St Andrews Univ.; Keeper Research Lab. British Museum 1924-59. Prof. of Chemistry Royal Acad. 1936-58; Chair. Hon. Scientific Advisory Cttee. Nat. Gallery 1944-58; Hon. Treas. Int. Inst. for the Conservation of Museum Objects 1950-58, Vice-Pres. 1959-65, Pres. 1965-68, Hon. Fellow 1971; Dir. Int. Centre for Study of Preservation and Restoration of Cultural Property, Rome 1959-71, Dir. Emer. 1971-; Hon. LL.D. (St. Andrews); Gold Medal Soc. Antiquaries of London 1964; U.S. Dept. of Interior Conservation Serivce Award 1976. *Publications:* The Preservation of Antiquities, The Conservation of Prints, Drawings and Manuscripts, The Preservation of Leather Bookbinding, The Conservation of Antiquities and Works of Art. *Address:* 17 Rockfield Crescent, Dundee DD21 JF, Scotland. *Telephone:* Dundee 641552.

PLETTNER, Bernhard; German business executive; b. 2 Dec. 1914, Oberlahnstein; s. of Bernard Christoph Plettner and Anna Maria Derstroff; m. Ursula Ganswindt 1955; ed. Humanistisches Gymnasium Oberlahnstein and Bad Kreuznach, Technische Hochschule Darmstadt; design engineer Industrial Div. Siemens Schuckertwerke A.G. 1940-45, Head of design group 1945-49, Deputy Man. Export Section 1949-55, Man. Design Div. for Raw Materials Industry 1955-60, Dir. 1960-, Deputy Chair. Board of Dirs. 1961, Chair. 1962-66, Pres. and Chief Exec. Officer, Siemens AG, Berlin-Munich Oct. 1971-; mem. Supervisory Board, Hamburgische Elektrizitätswerke AG, Stahl und Rohrenwerk Reisholz GmbH, Düsseldorf-Reisholz; Deputy Chair. of Supervisory Board, Osram GmbH, München-Berlin, Bergmann Elekrizitätswerke AG, Berlin, Bosch-Siemens Hausgeräte GmbH; Chair. Board of Dirs. Siemens Overseas Inv. Ltd., Winnipeg; Vice-Pres. Board Siemens Beteiligungen AG, Zurich; mem. Presidential Cttee. of Fed. of German Industries, Cologne; mem. Board Senator, Max Planck Soc.; mem. Board Soc. of Friends of Munich Technical Univ.; mem. Soc. of Friends Darmstadt Tech. Coll, Soc. for Freedom of Science, Univ. Erlangen Assoc.; Dr.Ing. e.h. *Address:* Siemens A.G., 8000 Munich 2, Wittelsbacherplatz 2, Federal Republic of Germany. *Telephone:* 2342450.

PLEVEN, René, D. EN D.; French politician; b. 15 April 1901; m. Anne Bompard 1924 (died 1966); two d.; ed. Ecole des Sciences Politiques, Paris; Asst. Head French Air Mission in U.S.A. 1939; mem. Franco-British Co-ordination Cttee. 1940; Sec.-Gen. Govt of French Equatorial Africa 1940; negotiated agreement for dispatch of war material to Free French, Washington 1941; Nat. Commr. for Economy, Finance and Colonies 1941-42, for Foreign Affairs and Colonies 1942-43, for Colonies 1943; Commr. for Colonies French Cttee. for Nat. Liberation 1943-44; Minister for Colonies, French Provisional Govt. Sept.-Nov. 1944, of Finance 1944-46, of Nat. Defence Bidault Cabinet 1949-50, Queuille Cabinet July 1950; Prime Minister July 1950-March 1951; Vice-Premier March-Aug. 1951; Prime Minister Aug. 1951-Jan. 1952; Minister of Nat. Defence, Pinay Cabinet March-Dec. 1952, Mayer Cabinet Jan.-May 1953, and Laniel Cabinet 1954; Min. of Foreign Affairs 1958, of Justice 1969-73; Deputy (Côtes-du-Nord) 1945-73; Pres. Conseil Général des Côtes du Nord 1948-76; Conseil Régional de Bretagne 1974-76. *Publication:* Avenir de la Bretagne. *Leisure interest:* fishing. *Address:* 7 rue d'Uzès, 75002 Paris, France.

PLIATZKY, Sir Leo, K.C.B., M.A.; British civil servant; b. 22 Aug. 1919, Salford; m. Marian Jean Elias 1948; ed. Manchester Grammar School, City of London School, Corpus Christi Coll., Oxford; Army service 1940-45, (mentioned in despatches); Research Sec., Fabian Soc. 1946-47; Ministry of Food 1947-51; Second Perm. Sec. in charge of Public Expenditure, Treasury 1951-77; Perm. Sec., Dept. of Trade July 1977-. *Address:* 27 River Court, Upper Ground, London, SE1 9PE, England. *Telephone:* 01-928 3667.

PLIMPTON, Francis T.P., A.B., J.D.; American lawyer and diplomatist; b. 7 Dec. 1900, New York City; s. of George Arthur Plimpton and Frances Taylor Pearsons; m. Pauline Ames 1926; three s. one d.; ed. Amherst Coll. and Harvard Univ.; admitted to Bar 1926; law practice 1926-31, 1933-61, 1965-; Gen. Solicitor, Reconstruction Finance Corpn. 1932-33; Partner, Debevoise, Plimpton, Lyons and Gates (and predecessor firms) 1933-61, 1965–;

Deputy Rep. of U.S.A. to UN with rank of Amb. 1961-65, Acting Rep. July 1965; Del. 15-19th UN Gen. Assemblies; Pres. Assn. of Bar 1968-70; Chair., New York Board of Ethics 1973-; Chair. Mayor's Comm. for Distinguished Guests, New York 1976-; Dir. and Trustee of numerous financial, educational, legal and cultural orgs.; Fellow, American Acad. of Arts and Sciences; Hon. LL.D., L.H.D; Chevalier, Légion d'honneur, Order of Merit (Repub. of Italy), Gold Medal, Assn. of Bar, New York 1977. *Leisure interests:* tennis, travel. *Address:* 299 Park Avenue, New York, N.Y. 10017 (Office); 131 East 66th Street, New York, N.Y. 10021 (Home); also 168 Chichester Road, West Hills, Huntingdon, Long Island, N.Y. 11743, U.S.A. *Telephone:* (212) 752-6400.

PLIMSOLL, Sir James, A.C., C.B.E.; Australian diplomatist; b. 25 April 1917, Sydney; s. of late James Ernest and Jessie Plimsoll; ed. Sydney High School and Univ. of Sydney; with Economic Dept. Bank of New South Wales, Sydney 1938-42; served in Australian Army 1942-47; mem. Australian Del., Far Eastern Comm. 1945-48; Rep. UN Comm. for Unification and Rehabilitation of Korea 1950-52; Asst. Sec., Department of External Affairs 1953-59; Perm. Rep. to UN 1959-63; High Commr. in India and Amb. to Nepal 1963-65; Sec. Dept. of External Affairs 1965-70; Amb. to U.S.A. 1970-74, to U.S.S.R. and Mongolia 1974-77, to Belgium, Luxembourg and the European Communities 1977-. *Address:* Australian Embassy, 51 avenue des Arts, Brussels 1040, Belgium. *Telephone:* 511-39-97.

PLISETSKAYA, Maiya Mikhailovna; Soviet ballerina; b. 20 Nov. 1925, Moscow; ed. Moscow Bolshoi Theatre Ballet School; soloist Bolshoi Ballet 1943, now ■ Principal Dancer; First Prize, Budapest Int. Competition 1949; People's Artist of the R.S.F.S.R. 1951; People's Artist of the U.S.S.R. 1959, Lenin Prize 1964, and other decorations; Main ballet roles: Odette-Odile (Swan Lake, Tchaikovsky), Raimonda (Raimonda, Glazunov), Zaryema (The Fountain of Bakhchisarai, Asafiev), Kitri (Don Quixote, Minkus), Juliet (Romeo and Juliet, Prokofiev), Girl-Bird, Syunmbike (Shuralye, Yarullin), Laurencia (Laurencia, Krein), Yegina (Spartak, Khachaturian), Karmen (Karmen Suite Schedrin); produced (with V. V. Smirnoviy-Golovanoviy and N. I. Ryzhenko) Anna Karenina 1972. *Address:* State Academic Bolshoi Theatre, 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

PLOJHAR, Josef; Czechoslovak politician; b. 2 March 1902, České Budějovice; ed. theological studies; arrested by the Gestapo and imprisoned in Buchenwald concentration camp 1939 and later in Dachau; Chair. of the organization of the Czechoslovak People's Party in České Budějovice district 1945; Deputy to Nat. Assembly 1945-69; Hon. Chair. 1968-; Chair. Nat. Peace Cttee. Catholic Clergy 1951-68; Minister of Health 1948-68; Chair. of the Czechoslovak People's Party 1951-68; mem. Presidium Czechoslovak People's Party 1969-; mem. Presidium of Central Cttee. of Nat. Front 1955-68; Deputy to House of People, Fed. Assembly 1969-; Deputy Chair. Cen. Cttee. Czechoslovak Group of Interparliamentary Union 1970-71; Deputy Chair. Czechoslovak-French Parl. Group 1972-; mem. Presidium, Czechoslovak Society for Int. Relations 1975-; Chair. Czechoslovak-Austrian Cttee. 1975-; Czechoslovak Peace Prize 1966, and other decorations; Dr. Theol. h.c. *Address:* Federal Assembly, Prague, Czechoslovakia.

PLOWDEN, Baron, (Life Peer) cr. 1959; **Edwin Noel Plowden,** K.C.B., K.B.E.; British administrator; b. 6 Jan. 1907, Stachur, Argyll, Scotland; m. Bridget Horatia Richmond, D.B.E., J.P. (Lady Plowden, *q.v.*), 1933; two s. two d.; ed. Switzerland and Pembroke Coll., Cambridge; temp. Civil Servant Ministry of Econ. Warfare 1939-40; Ministry of Aircraft Production 1940-46; mem. Aircraft Supply Council, Chief Exec. 1945-46; Chief Planning Officer and Chair. Econ. Planning Bd. 1947-53, mem. 1953-59; Vice-Chair. Temporary Council Cttee. of NATO 1951-52; Chair. Designate U.K. Atomic Energy Authority 1953-54, Chair 1954-59; Chair. Cttee. of Enquiry into Treasury Control of Public Expenditure 1959-61, Cttee. of Enquiry into Org. of Representational Service Overseas 1963-64, Cttee. of Enquiry into Aircraft Industry 1964-65, Standing Advisory Cttee. on Pay of Higher Civil Service 1968-70, Cttee. of Enquiry into Structure of Electricity Supply Industry 1974-75, Enquiry into CBI's Aims and Organisation 1974-75; Deputy Chair. Cttee. of Enquiry into Police Pay and Related Matters 1977-; mem. Top Salaries Review Body 1977-; Pres. AMDEA 1976-; mem. Ford European Advisory Council 1976-; Chair. Tube Investments Ltd. 1963-76, Pres. 1976-; Dir. Nat. Westminster Bank Ltd. 1960-77, Commercial Union Assurance Co. Ltd 1946-78; Pres. London Graduate School of Business Studies (Chair. Governing Body 1964-70); Chair. Equity Capital for Industry Ltd., Police Complaints Board; Deputy Chair. Cttee. of Enquiry on Police; Visiting Fellow, Nuffield Coll., Oxford 1956-64; Hon. Fellow, Pembroke Coll., Cambridge 1958; Hon. D.Sc. (Pennsylvania State) 1958, (Aston) 1972, Hon. D.Litt. (Loughborough) 1976. *Address:* Martels Manor, Dunmow, Essex; and 7 Cottesmore Gardens, London W.8, England.

PLOWDEN, Lady (Bridget Horatia), D.B.E.; British administrator; d. of late Admiral Sir H. W. Richmond and Lady Richmond; m. Edwin Noel Plowden (Lord Plowden, *q.v.*) 1933; two s. two d.; ed. Downe House; Dir. Trust House Forte Ltd. 1961-72; J.P., Inner London Area Juvenile Panel 1962-71; Chair. Cen. Advisory Council for Educ. (England) 1963-66, Working Ladies Guild, Professional Classes Aid Council, Advisory Cttee. for Educ. of Romany and other Travellers, Metropolitan Architectural Consortium for Educ., Board of Govs. Philippa Fawcett Coll. of Educ. 1967-76, Robert Montefiore Comprehensive School 1968-78; co-opted mem. Educ. Cttee. Inner London Educ. Authority 1967-73, Vice-Chair. ILEA School Sub-Cttee. 1967-70; Vice-Chair. Gov. BBC 1970-75; Chair. Independent Broadcasting Authority April 1975-; Pres. Pre-Schools Playgroups Assn. 1972-, Harding Housing Assn.; mem. Nat. Theatre Board 1976-; Hon. Fellow, Coll. of Preceptors 1973, Hon. LL.D. (Leicester) 1968, (Reading) 1970, (Open Univ.) 1974, (London) 1976; Hon. D.Litt. (Loughborough) 1976. *Address:* 7 Cottesmore Gardens, London, W.8; and Martels Manor, Dunmow, Essex, England. *Telephone:* 01-937 4238; Great Dunmow 2141.

PLOWRIGHT, Joan Anne, C.B.E.; British actress; b. 28 Oct. 1929, Brigg, Lancashire; d. of William Plowright and Daisy (née Burton); m. 1st Roger Gage 1953 (divorced), 2nd Sir Laurence (now Lord) Olivier (*q.v.*) 1961; one s. two d.; ed. Scunthorpe Grammar School and Old Vic Theatre School; mem. Old Vic Company, toured South Africa 1952-53; first leading rôle in The Country Wife, London 1956; mem. English Stage Company 1956; at Nat. Theatre 1963-74; Best Actress (Tony) Award for A Taste of Honey, New York 1960; Best Actress (Evening Standard) Award for St. Joan 1964; Variety Club Award 1976 for The Bed Before Yesterday. *Plays acted in include:* The Chairs 1957, The Entertainer 1958, Major Barbara and Roots 1959, A Taste of Honey 1960, Uncle Vanya 1962, 1963, 1964, St. Joan 1963, Hobson's Choice 1964, The Master Builder 1965, Much Ado About Nothing 1967, Tartuffe 1967, Three Sisters 1967, 1969 (film 1969), The Advertisement 1968, 1969, Love's Labour's Lost 1968, 1969, The Merchant of Venice, 1970, 1971-72, Rules of the Game, Woman Killed with Kindness 1971-72, Taming of the Shrew, Doctor's Dilemma 1972, Merchant of Venice (TV film) 1973, Rosmersholm 1973, Saturday Sunday Monday 1973, Eden's End 1974, The Sea Gull 1975, The Bed Before Yesterday 1975, Equus (film) 1976, Daphne Laureola (TV film) 1977, Saturday Sunday Monday (TV film) 1977, Filumena 1977. *Address:* c/o Wheelshare Ltd., 33-34 Chancery Lane, London, WC2A 1EN, England. *Telephone:* 01-836 7932.

PLUMB, John Harold, PH.D., LITT.D., F.B.A.; British historian; b. 20 Aug. 1911; ed. Univ. Coll., Leicester, Christ's Coll., Cambridge; Ehrman Research Fellow King's Coll. Cambridge 1939-46; Foreign Office 1940-45; Fellow, Christ's Coll. 1946-, Steward 1948-50, Tutor 1950-59, Vice-Master 1964-68, Master 1978-; Lecturer in History, Univ. of Cambridge 1946-62, Reader in Modern English History 1962-65, Prof. of Modern English History 1966-73; Trustee, Nat. Portrait Gallery 1961-; Visiting Prof. Columbia Univ. 1960, Distinguished Visiting Prof. New York City Univ. 1971-72, 1976, Washington Univ. 1977; Editor History of Human Society 1959-; European Advisory Editor to Horizon 1959-; mem. Council of British Acad. 1977-; Hon. foreign mem. American Acad. of Arts and Sciences 1970; Hon. D.Litt. (Leicester) 1968, (East Anglia) 1973, (Bowdoin Coll., U.S.A.) 1974, (Univ. of Southern California) 1978. *Publications:* England in the Eighteenth Century 1950, West African Explorers (with C. Howard) 1951, Chatham 1953, Sir Robert Walpole Vol. I 1956, Vol. II 1960, The First Four Georges 1956, The Renaissance 1961, Men and Places 1963, Crisis in the Humanities 1964, The Growth of Political Stability in England 1675-1725 1967, The Death of the Past 1969, In the Light of History 1972, The Commercialisation of Leisure 1974, Royal Heritage (with Sir Huw Wheldon) 1977; also televised version of Royal Heritage 1977. *Address:* The Master's Lodge, Christ's College, Cambridge, England. *Telephone:* Cambridge 62852.

PLUMMER, (Arthur) Christopher (Orme), C.C.; Canadian actor; b. 13 Dec. 1929, Toronto; m. 1st Tammy Lee Grimes 1956, 2nd Patricia Audrey Lewis 1962, 3rd Elaine Regina Taylor 1970; one d.; public and private schools in Montreal, P.Q.; professional debut ■ Faulkland in The Rivals, Ottawa Repertory Theatre; Broadway debut in Starcross Story 1951-52; numerous appearances in theatres in U.S.A. have included: Mark Antony in Julius Caesar, Ferdinand in The Tempest, Earl of Warwick in Anouilh's The Lark, The Narrator in Stravinsky's L'Histoire du Soldat, The Devil in J.B., 1951-61, The Resistible Rise of Arturo Ui and The Royal Hunt of the Sun 1965-66, The Good Doctor 1973; played many leading Shakespearian roles in productions by the Stratford

Canadian Festival Co.; British debut in title role of Richard III, Stratford on Avon 1961 and then in London as Henry II in Anouilh's Becket; leading actor in the National Theatre Co. of Great Britain 1971-72; has appeared in Nat. Theatre productions of Amphytrion 38, Danton's Death 1971; many TV roles including Hamlet in BBC/Danish TV production, Hamlet in Elsinore, Jesus of Nazareth 1977. *Films include:* The Fall of the Roman Empire, The Sound of Music, Inside Daisy Clover, Triple Cross, Oedipus the King, Nobody Runs Forever, Lock Up Your Daughters, The Royal Hunt of the Sun, Battle of Britain, Waterloo, The Pyx, The Spiral Staircase, Conduct Unbecoming, The Return of the Pink Panther, The Man Who Would be King, Aces High 1976, The Disappearance 1977, International Velvet 1978. *Leisure interests:* piano, skiing, tennis, old cars. *Address:* c/o Stanley, Gorrie, Whitson & Co., 9 Cavendish Square, London, W.1, England. *Telephone:* 01-580 6363.

PNIEWSKI, Jerzy, D.SC.; Polish physicist; b. 1 June 1913, Płock; s. of Henryk and Amelia Pniewski; m. Maria Chojnacka 1953; ed. Warsaw Univ.; Doctor 1951-54, Warsaw Univ., Assoc. Prof., 1954-63, Prof. 1963-, Dir. Inst. of Experimental Physics, Head Dept. of Physics 1975-; specialist in high energy physics and co-founder of hyper-nucleus physics; Corresp. mem. Polish Acad. of Sciences (PAN) 1964-71, mem. 1971-; mem. Presidium of State Cttee. for Nuclear Physics 1960-; Pres. Physics Cttee., PAN 1975-; mem. IUPAP Comm. 1969-75, Polish Physical Soc., Società Italiana di Fisica, European Physical Soc.; Corresp. mem. Heidelberg Acad. of Sciences 1971-; Dr. h.c. (Lyons Univ.) 1975; Gold Cross of Merit 1952, Knight's Cross, Order of Polonia Restituta 1954, Commdr.'s Cross with Star 1974, Order of Banner of Labour, 1st Class 1964, State Prize 1955, 1964. *Address:* Ul. Koszykowa 75 m. 33, 00-662 Warsaw, Poland.

POCOCK, Carmichael Charles Peter, C.B.E.; British business executive; b. 25 March 1920, London; s. of late Joseph Albert Pocock; m. Nina A. H. Hearn 1943; one s. two d.; ed. Rossall, and Keble Coll., Oxford; joined Shell Group of Companies 1946; Pres. of Compañía Shell de Venezuela 1964-67; Regional co-ordinator, East and Australasia 1968-69; Man. Dir. Royal Dutch/Shell Group of Companies 1970-, Chair. July 1977-; Chair. Shell Transport and Trading Co. Ltd. 1976-; Chair. London Business School July 1976–. *Leisure interests:* sailing, mountain walking. *Address:* Shell Centre, London, S.E.1, England. *Telephone:* 01-934 5866.

PODGAYEV, Grigoriy Yefimovich; Soviet politician; b. 1920; ed. Tomsk Industrial Inst. and Higher Party School; CPSU 1940–; Engineer 1940-42; with Soviet Army 1942-45; Instructor, Territorial Cttee. of CP then First Sec. Vyazma Dist. Cttee. of CP 1945-58; Chief of Section Khabarovsk Territorial Cttee. of CP, then First Sec. Khabarovsk City Cttee. of CP 1958-61; Chair. Exec. Cttee. Regional Soviet of Jewish Autonomous Region 1961-62; First Sec. Regional Cttee. of CP of Jewish Autonomous Region 1962-70; Chair. Exec. Cttee. Khabarovsk Territorial Soviet of Deputies Working People; Deputy to Supreme Soviet of U.S.S.R. 1966-; mem. Comm. for Industry, Soviet of Nationalities 1974-; mem. Legislative Proposals Cttee. 1974-. *Address:* Executive Committee, Territorial Soviet of Deputies of Working People, Khabarovsk, U.S.S.R.

PODGORNY, Nikolay Viktorovich; Soviet politician; b. 18 Feb. 1903, Karlovka, Poltava region, Ukraine; ed. Mikoyan Technological Inst. of Food Industry, Kiev. mem. Communist Party 1930-; Engineer, later Chief Engineer of sugar factories and sugar trusts 1931-39; Deputy People's Commissar of Ukrainian Food Industry 1939-40, 1944-46; Deputy People's Commissar of U.S.S.R. Food Industry 1940-42; Dir. Moscow Technological Inst. of Food Industry 1942-44; Perm. Rep. of Ukrainian S.S.R. Council of Ministers to U.S.S.R. Council of Ministers 1946-50; First Sec. Kharkov District 1950-53; Second Sec. Ukraine CP 1953-57; full mem. Presidium of Cen. Cttee. of CP of Ukrainian S.S.r. 1957-63; Sec. CPSU Cen. Cttee. 1963-77; cand. mem. Presidium of CPSU Cen. Cttee. 1958-60, mem. 1960-66, mem. Political Bureau 1966-77; mem. Cen. Auditing Comm. CPSU 1952-56; Deputy to U.S.S.R. 1954-79 and Ukrainian S.S.R. Supreme Soviets; Chair. Presidium U.S.S.R. Supreme Soviet 1965-77; Hero of Socialist Labour 1963, 1973, Order of Lenin (five times), Order of the Red Banner of Labour, and other awards. *Address:* The Kremlin, Moscow, U.S.S.R.

POHER, Alain Emile Louis Marie; French politician; b. 17 April 1909, Ablon-sur-Seine (S.-et-O.); s. of Ernest Poher and Louise (née Souriau); m. Henriette Tugler 1938; one d.; ed. Lycée Louis-le-Grand, Paris, Lycée Saint-Louis, Paris, and Faculty of Law, Univ. of Paris; Ministry of Finance 1935-46; Chef de Cabinet to Minister of Finance (R. Schuman) June-Nov. 1946; Senator for Seine-et-Oise 1946-48, 1952-68, for Val-de-Marne 1968-; Finance Comm. Conseil de la République 1946-48; Sec. of State for Finance 1948, for Budget 1948; Commr.-Gen. for German and Austrian Affairs 1948-50; French Del. to Int. Ruhr Authority 1950-52; Pres. Higher Trade Council 1953; Pres. Senate Group of Mouvement Républicain Populaire (M.R.P.) 1954-57, 1959-60; Pres. Transport Comm. of Coal and Steel Assembly 1954-55; Pres. of Common Market Comm. 1955-57; Pres. Franco-German Governmental Comm. for Canalisation of the Moselle 1955-56; Mayor of Ablon-sur-Seine 1945-; Asst. Sec.-Gen. Assen. of Mayors of France 1945-60; Sec. of State Armed Forces (Naval) 1957-58; Del. to European Parl. 1958, Pres. Christian Democrat Group 1958-66, Pres. of European Parl. 1966-69; Pres. Euro-African Parl. Assembly 1967-68; Pres. of Senate 1968-; Acting Pres. of France April-June 1969, April-May 1974; Presidential Candidate June 1969; Pres. World Cttee. for the Salvation of the Jews of the Middle East; Chevalier Légion d'honneur, Croix de guerre, Médaille de la Résistance. *Address:* 9 rue du Maréchal-Foch, 94 Ablon-sur-Seine, France.

PÖHL, Karl Otto; German economist; b. 1 Dec. 1929, Hanover; m. Dr. Ulrike Pesch; one s., two d.; Head of Dept. Ifo-Research Inst., Munich 1955-60; journalist 1961-67; mem. of the Management Bd. of the Federal Assen. of German Banks, Cologne 1968-69; Head of Dept. Fed. Ministry of Econ. Affairs 1970-71; Head of Econ. and Fiscal Policy Dept., Fed Chancellor's Office 1971-72; State Sec. Fed. Ministry of Finance 1972-77; Vice Chair. Deutsche Bundesbank 1977; Chair. of the Deputies of the "Group of Ten", Mem. Supervisory Bd. DG-Bank. *Address:* Deutsche Bundesbank, Wilhelm-Epstein-Str. 14, 6000 Frankfurt am Main, Federal Republic of Germany.

POIGNANT, Raymond; French public servant; b. 26 Dec. 1917, Morainvilliers (S.-et-O.); s. of Jules Poignant and Marie Beaufourd; m. Suzanne Anxionnaz 1939; one s.; ed. École normale d'instituteurs de Versailles, Faculté des lettres de Paris and Ecole nat. d'admin. de Paris; Auditeur Council of State 1949; Technical adviser in Cabinet of André Marie (Minister of Educ.) 1951-54, in Cabinet of René Billières (Sec. d'Etat chargé de la Fonction publique in Pierre Mendès-France Govt. Nov. 1954-Feb. 1955 and Minister of Educ. in govts. of Guy Mollet Feb. 1956-June 1957, M. Bourgès-Manoury June-Nov. 1957, and F. Gaillard Nov. 1957-Apr. 1958); Maître de requêtes 1956; Rapporteur gén., School and Univ. Cttee. of Commissariat du Plan 1956-64; Sec.-Gen. of Interministerial Cttee. for Study of Medical Training Problems, Hospital Structure and Health and Social Activities Sep. 1958-70; Senior Staff mem., Int. Inst. for Educ. Planning, UNESCO 1963, Dir. 1969-74; Conseiller d'Etat 1974-; Officier Légion d'honneur, Officier de l'Ordre national du Mérite, Commdr. des Palmes Académiques, Officier des Arts et Lettres, Chevalier de la Santé publique. *Publications:* Reports on the Third French Plan 1958-62, Reports on the Fourth French Plan 1962-65, Education and Development in Western Europe, the United States and the U.S.S.R., Comparative Study, French edn. 1965, Educational Planning in the U.S.S.R. (co-author) 1967, The Relation of Educational Plans to Economic and Social Planning 1969, Education in Industrialized Countries 1973. *Address:* Conseil d'Etat, Place du Palais Royal, Paris 1er (Office); 2 avenue du Vert-Bois, Ville-d'Avray, Hauts-de-Seine, Paris, France (Home). *Telephone:* 945-59-33.

POITIER, Sidney; American actor; b. 20 Feb. 1924; ed. Western Senior High School, Nassau, Governors High School, Nassau; army service 1941-45; acted with American Negro Theatre 1946; appeared in Anna Lucasta 1948, A Raisin in the Sun 1959; Silver Bear Award, Berlin Film Festival 1958; New York Film Critics Award 1958; Academy Award (Oscar) Best Actor of 1963; Hon. K.B.E., has appeared in the following films: Cry the Beloved Country 1952, Red Ball Express 1952, Go, Man, Go 1954, Blackboard Jungle 1955, Goodbye My Lady 1956, Edge of the City 1957, Something of Value 1957, The Mark of the Hawk 1958, The Defiant Ones 1958, Porgy and Bess 1959, A Raisin in the Sun 1960, Paris Blues 1960, Lilies of the Field 1963, The Long Ships 1964, The Bedford Incident 1965, The Slender Thread 1966, A Patch of Blue 1966, Duel at Diablo 1966, To Sir with Love 1967, In the Heat of the Night 1967, Guess Who's Coming to Dinner 1968, For Love of Ivy 1968, The Lost Man 1970, They Call Me Mister Tibbs 1970, The Organization 1971, The Wilby Conspiracy 1975; has appeared in all and directed Warm December 1973, Uptown Saturday Night 1974, Let's Do It Again 1975, A Piece of the Action 1977. *Leisure interests:* football, tennis, gardening. *Address:* c/o Verdon Productions Ltd., 9350 Wiltshire Boulevard, Beverly Hills, Calif. 90212, U.S.A.

POL POT (also known as Tol Saut or Pol Porth), Cambodian politician; b. 19 May 1928, Memot; worked on rubber plantation; joined anti-French resistance under Ho Chi Minh in 1940s; mem. Indo-Chinese Communist Party until 1946, Pracheachon (Cambodian Communist Party) 1946-; mem. People's Representative Assembly representing rubber plantation workers 1976-79; Prime Minister 1976-79; overthrown after Vietnamese invasion of Cambodia.

POLAK, Carel Hendrik Frederik; Netherlands law professor and politician; b. 2 Sept. 1909, Rotterdam; s. of Maurits Polak and Bertha Oppenheim; m. Anneke Werker 1950; one s. one d.; ed. Rijksuniversteit, Leiden. Civil servant 1934; Prof. of Agricultural Law, Agricultural Coll., Wageningen 1946; Prof. of Admin. Law, Univ. of Leiden 1951; Chair. State Comm. for Water Control Legislation; Deputy Mem. Social and Econ. Council, mem. of Board of Netherlands Inst. of Administrative Sciences; Minister of Justice 1967-71; mem. of the Senate 1977; extraordinary mem. of Council of State; mem. European Comm. of Human Rights 1973-. *Publications:* Several legal works and articles. *Leisure interests:* walking, reading. *Address:* Prins Hendriklaan 22, Oegstgeest, Netherlands. *Telephone:* 071-153334.

POLAK, Jacques Jacobus, PH.D.; Netherlands economist and international official; b. 25 April 1914, Rotterdam; s. of James and Elisabeth F. Polak; m. Josephine Weening 1937; two s.; ed. Gymnasium Erasmianum, Rotterdam, and Univ. of Amsterdam; Economist League of Nations, Geneva, and Princeton, N.J. 1937-43; Economist, Netherlands Embassy, Washington, D.C. 1943-44; Asst. Financial Adviser, Econ. Advisor, UN Relief and Rehabilitation Admin., Washington, D.C. 1944-46; IMF, Washington, D.C. 1947-, Chief, Statistics Div. 1947-48, Asst. Dir. Research Dept. 1948-52, Deputy Dir. Research Dept. 1952-58, Dir. 1958-; Econ. Counsellor 1966-; Professorial Lecturer, Johns Hopkins Univ. 1949-50, George Washington Univ. 1950-55; Fellow, Econometric Soc. *Publications include:* The Dynamics of Business Cycles (with Jan Tinbergen) 1950, An International Economic System 1952. *Address:* c/o International Monetary Fund, 19th and H Streets, N.W., Washington, D.C. 20431, U.S.A. *Telephone:* (202) 393-6362 (Office).

POLAŃSKI, Roman; French (b. Polish) film director; b. 18 Aug. 1933, Paris; m. 1st Barbara Kwiatkowska-Lass, 2nd Sharon Tate 1968 (died 1969); ed. Polish Film School, Łódź; Dir. Two Men and ■ Wardrobe 1958, When Angels Fall, Le Gros et Le Maigre, Knife in the Water (prize at Venice Film Festival 1962), The Mammals (prize at Tours Film Festival 1963), Repulsion (prize at Berlin Film Festival 1965), Cul de Sac (prize at Berlin Film Festival 1966), The Vampire Killers 1967, Rosemary's Baby 1968, Macbeth 1971, What? 1972, Lulu (opera), Spoleto Festival 1974, Chinatown (Best Dir. Award. Soc. of Film and TV Arts 1974, Le Prix Raoul-Levy 1975) 1974, The Tenant 1976, Rigoletto (opera) 1976, Pirates 1979; has acted in: A Generation, The End of the Night, See You Tomorrow, The Innocent Sorcerers, Two Men and ■ Wardrobe, The Vampire Killers, What?, Chinatown, The Tenant, Pirates.

POLEDNÍK, Jindřich; Czechoslovak youth organization leader; b. 7 July 1937, Stonava, Karviná District; ed. Faculty of Natural Sciences, Palacky Univ., Olomouc. Sec. Cen. Cttee. of Czechoslovak Union of Youth 1967-68; Deputy Chair. of Council, Asscn. of Children's and Youth Orgs. of Czech Socialist Repub. 1969-70; Deputy Chair. Czech Cen. Cttee., Socialist Union of Youth (SSM) 1970-72, Chair. 1972-74, mem. Presidium and Secretariat of (Fed.) Cen. Cttee., SSM 1972-74; Deputy Chair of (Fed.) Cen. Cttee. 1972-74, Chair. 1974-77; Deputy mem., later mem. Presidium of Czech Nat. Council 1971-76, mem. Presidium of Cen. Cttee., Czechoslovak Nat. Front 1974-; mem. Cen. Cttee. and Secretariat, CP of Czechoslovakia April 1976-; Deputy of House of Nations of Fed. Assembly 1976-; Sec. Cen. Cttee. of CP of Czechoslovakia 1977-; Order of Labour 1977. *Address:* Central Committee of the Communist Party of Czechoslovakia, Prague, nábř. Ludvíka Svobody 12, Czechoslovakia.

POLETTI, H.E. Cardinal Ugo; Italian ecclesiastic; b. 19 April 1914, Omegna, Novara; ordained 1938; consecrated titular Bishop of Medeli 1958; promoted to Spoleto 1967; consecrated Archbishop of Cittanova 1969; created Cardinal by Pope Paul VI 1973; Vicar-Gen. of Rome 1973-; Grand Chancellor, Pontifica Universitas Lateranensis; Pres. Acad. Liturgica. *Address:* Vicariato di Roma, Piazza S. Giovanni in Laterano 6, 00184 Rome, Italy.

POLEVOI, Boris Nikolayevich, (real name **Kampov**); Soviet writer and journalist; b. 17 March 1908, Moscow; s. of Nikolay Petrovich Kampov and Lidiya Vasilyevna Kampova; m. Yuliya Osipovna 1939; two s. one d.; ed. Kalinin industrial coll.; technologist in Proletarska Factory, Kalinin 1928; became professional journalist 1928; war corresp. for Pravda, Finnish War 1939-40, and World War 1941-45; mem. CPSU 1940-; Col. in Soviet Army; Deputy to Supreme Soviet R.S.F.S.R. 1951-66; mem. Board U.S.S.R. Union of Writers 1948-, Sec. 1967-; mem. Board Union of Soviet Journalists 1959-; mem. Presidium of U.S.S.R. Cttee. of War veterans 1948-; Editor Yunost (Youth) magazine 1962-; awarded State prizes, Hero of Socialist Labour 1974, orders of Lenin (three), Red Banner (twice), Red Star, Patriotic War 1st Class (twice), Gold Medal of World Peace Council 1968, V. Vorovsky Prize of U.S.S.R. Union of Journalists, Order of Peoples' Friendship. *Publications:* The Hot Shop 1939, Blood-stained Stone 1942, Till their Last Breath 1943, From Belgorod to the Carpathians 1944, Story of a Real Man 1946, We Are Soviet People 1948, He Came Back 1949, Gold 1950, Contemporaries 1952, American Diaries 1956, In the Far-away Lands 1956, Three hundred thousand li across the New China 1957, Far Behind the Lines 1958, All Men are Brothers 1960, From Near and Far 1960, Meetings on the Cross-Roads 1961, Our Lenin 1962, On the Wild Shore 1963 and 1977, Vera 1966, In Great Offensive 1966, Nuremberg Diaries 1969, Selected Works (2 vols.) 1969, Stories 1971, These Four Years 1974, Profiles 1974, It's 896 kilometres to Berlin. Notes of ■ War Correspondent 1974, The Navigators Memoirs 1975. *Leisure interest:* bee-keeping. *Address:* 13 Begovaya Street, Apt. 113, Moscow, U.S.S.R. *Telephone:* 255-89-22.

POLINSZKY, Dr. Károly; Hungarian chemical engineer and politician; b. 19 March 1922, Budapest, s. of Gyula Polinszky and Róza Morbitzer; m. Mária Magdolna Rézeky 1946; three s.; ed. Technical Univ., Budapest Asst. Lecturer Technical Univ. 1944; Corresp. mem. Hungarian Acad. of Sciences 1964-76, mem. 1976-; Dean, later Rector Veszprém Univ. of Chemical Industry, Dir. Research Inst. for Heavy Chemistry; Deputy Minister of Educ. 1963-74, Minister 1974-; Vice-Pres. Awarding Cttee. for State Prize and Kossuth Prize 1974-; Dr. h.c. (Lensoviet Technical Univ. of Leningrad) 1968; Kossuth Prize 1961. *Leisure interests:* literature, music. *Address:* Ministry of Education, Szalay-utca 10/14, Budapest 1055, Hungary. *Telephone:* 118-600.

***POLLINI, Maurizio;** Italian pianist; b. 1942, Milan; has played with Berlin and Vienna Philharmonic Orchestras, Bayerischer Rundfunk Orchestra, London Symphony Orchestra, Boston, New York, Philadelphia, Los Angeles and San Francisco Orchestras; has played at Salzburg, Vienna, Berlin, Prague Festivals; recordings for Polydor Int.; First Prize Int. Chopin Competition, Warsaw 1960. *Address:* c/o Harrison/Parrott Ltd., 22 Hillgate Street, London W8 7SR, England.

POLLOCK, Admiral of the Fleet Sir Michael (Patrick), G.C.B., M.V.O., D.S.C.; British naval officer; b. 19 Oct. 1916; ed. Royal Naval Coll., Dartmouth; entered Navy 1930, specialized in gunnery 1941; served in Warspite, Vanessa, Arethusa and Norfolk, Second World War; Capt. Plans Div. of Admiralty and Dir. of Surface Weapons; commanded H.M.S. Vigo and Portsmouth Squadron 1958-59, H.M.S. Ark Royal 1963-64; Asst. Chief of Naval Staff 1964-66; Flag Officer, Second-in-Command, Home Fleet 1966-67; Flag Officer, Submarines, and NATO Commdr., Submarines, E. Atlantic 1967-69; Controller of the Navy 1970-71; Chief of Naval Staff and First Sea Lord 1971-74; First and Principal Naval Aide-de-Camp to the Queen 1972-74; Bath King of Arms 1976-. *Address:* The Ivy House, Churchstoke, Montgomery, Powys, SY15 6DU, Wales.

POLUNIN, Nicholas, M.S., M.A., D.PHIL., D.SC., F.L.S., F.R.G.S., F.R.H.S.; British biologist and author; b. 26 June 1909, Checkendon, Oxon.; s. of late Vladimir Polunin and Elizabeth Violet (née Hart); m. Helen Eugenie Campbell 1948; two s. one d.; ed. Christ Church, Oxford, and Yale and Harvard Univs.; botanical etc. exploring expeditions Spitsbergen, Lapland, Greenland, Iceland, Labrador, Hudson Bay and Strait, Baffin, Southampton, Devon and Ellesmere Islands 1930-38 (collections mainly in Nat. Museum of Canada, Gray Herbarium Harvard Univ., British Museum, Fielding Herbarium Oxford); explorations in Canadian Northwest Territories, Alaska, Ungava-Labrador, and Arctic Archipelago (where discovered last major islands to be added to world map) 1946-49; visited vicinity of magnetic North Pole 1947 and flew over geographical North Pole summer 1948 (demonstrating persistence of microbial life there) and winter 1949; field work in Middle East 1956-59, and in West Africa 1962-65; U.S. Order of Polaris, Canadian Marie-Victorin Medal; Botanical Tutor various Oxford Colls. 1932-47; Henry Fellow, Yale Univ. 1933-34; Dept. of Scientific and Industrial Research, Senior Research Award 1935-38; Research Assoc. Harvard Univ. 1936-37; Foreign Research Assoc. 1938-50, Research Fellow 1950-53; Fielding Curator and Keeper, Univ. Herbaria, Oxford, Univ. Demonstrator and Lecturer in Botany 1939-47; Univ. Moderator 1941-45; Lecturer (and latterly Senior Research Fellow) New Coll., Oxford 1942-47; Haley Lecturer, Acadia Univ. 1950; Macdonald Prof. of Botany, McGill Univ., Montreal 1947-52; Guggenheim Memorial Fellow 1950-52; Lecturer in Plant Geography, Yale Univ. 1953-55 while Project Dir. U.S. Air Force; Prof. of Plant Ecology and Taxonomy and Head Dept. of Botany, Dir. Univ. Herbarium, Faculty of Sciences, Baghdad 1955-59; Guest Prof. Univ. of Geneva 1959-61, 1975-76; Prof. of Botany and Head of

Dept. Faculty of Science (which he established as first Dean) Univ. of Ife, Ibadan 1962-66; Founder and Sec.-Gen. Int. Conf. on Environmental Future 1971-; Pres. Foundation for Environmental Conservation 1974-; Fellow, American Assoc. for Advancement of Science, Arctic Inst. of North America, and mem. of other learned socs.; Founding Editor International Industry 1943-46, World Crops Books 1954-74 and Plant Science Monographs 1954-77, Biological Conservation 1967-74, Environmental Conservation 1974-, Environmental Monographs and Symposia 1978-. *Publications:* Russian Waters 1931, The Isle of Auks 1932, Botany of the Canadian Eastern Arctic (3 vols.) 1940-48, Arctic Unfolding 1949, Circumpolar Arctic Flora 1959. Introduction to Plant Geography and some related sciences 1960, Eléments de Géographie botanique 1967, The Environmental Future (editor) 1972, Growth without Eco-disasters 1978. *Leisure interests:* biological and environmental conservation, developing new ideas into plans (e.g. for world environmental council, special conferences, series of books, new journals, etc.), travel, international stock markets. *Address:* c/o New College, Oxford, England; 15 Chemin F. Lehmann, 1218 Grand-Saconnex, Geneva, Switzerland. *Telephone:* 98 23 83/84.

POLWARTH, 10th Baron; **Henry Alexander Hepburne Scott,** M.A., LL.D., F.R.S.E., F.R.S.A.; British (Scottish) administrator and chartered accountant; b. 17 Nov. 1916, Edinburgh; s. of Hon. Walter Thomas Hepburne Scott and Elspeth Glencairn Campbell; m. 1st Caroline Margaret Hay 1943 (divorced 1969), one s. three d.; m. 2nd Jean Jauncey (née Cunninghame-Graham); ed. Eton Coll. and King's Coll., Cambridge; Deputy-Gov. Bank of Scotland 1960-66, Gov. 1966-72, Dir. 1974-; mem. Western Hemisphere Exports Council 1958-64; Partner Chiene and Tait, Edinburgh 1950-68; Chair. Gen. Accident, Fire and Life Assurance Co. 1968-72; Minister of State, Scottish Office 1972-74; given special responsibility for oil devt. in Scotland 1973-74; Chair. Oil Devt. Council for Scotland 1973-74; Dir. ICI 1969-72, 1974-, Halliburton Co. 1974-, The Weir Group 1974-, Canadian Pacific Ltd. 1975-, Sun Life Assurance Co. of Canada 1975-, Brown and Root (U.K.) 1977; mem. Historic Bldgs. Council for Scotland 1953-66; Chancellor Univ. of Aberdeen 1966-; Chair. Scottish Nat. Orchestra 1975-; Hon. LL.D. (Univs. of St. Andrews, Aberdeen), Hon. D.Litt. (Heriot Watt), Hon. Dr. (Stirling). *Leisure interests:* managing family estate, country pursuits. *Address:* Harden, Hawick, Roxburghshire, Scotland. *Telephone:* 031-556-2231 (Office); Hawick 2069 (Home).

POLYAKOV, Vasiliy Ivanovich; Soviet agricultural journalist and politician; b. 10 Dec. 1913, Novoivanovka village, Kursk region; ed. Agricultural Technical School, Voronezh, and Inst. of Journalism, Leningrad; Agronomist 1933-38; mem. CPSU 1939-; Head of Dept. and Exec. Sec. Editorial Board Sotsialisticheskoe Zemldelie 1938-41; Red Army, Second World War; Pravda 1946-60; later Editor Agricultural Dept. and mem. Editorial Board; Editor Rural Life 1960-62; Head Agric. Dept., Cen. Cttee. of CPSU March-Nov. 1962, Chair. U.S.S.R. Bureau of Agric. (CPSU) 1962-64; Sec. Cen. Cttee. of CPSU 1962-64; Deputy Chief Editor Ekonomicheskaya Gazeta 1964-; Deputy to U.S.S.R. Supreme Soviet until 1970; awarded Orders of Lenin, Red Banner of Labour, Patriotic War 1st and 2nd classes, Red Star. *Address:* Ekonomicheskaya Gazeta, ulitsa Pravdy 24, Moscow, U.S.S.R.

POLYAKOV, Vladimir Porfiriyevich, PH.D.; Soviet diplomatist; b. March 1931, Smolensk- s. of Porfiriy and Yevdokia Polyakov; m. Nelly Polyakov 1953; one s.; ed. Inst. of Oriental Studies, Moscow; Diplomatic Service 1956-; Counsellor, Syria 1961-65; various posts in Ministry of Foreign Affairs 1965-67; Counsellor-Minister, Egypt 1968-71; Amb. to People's Democratic Repub. of Yemen 1972-74, to Egypt May 1974-. *Leisure interest:* politics. *Address:* Embassy of the U.S.S.R., 95 Sh. El Giza (Giza), Cairo, Egypt.

POLYANSKY, Dmitriy Stepanovich; Soviet politician; b. 7 Nov. 1917, Slavyanoserbskoe, Ukraine; s. of Stepan Lukich Polyansky and Praskoviya Tikhonovna Polyanskaya; m. Galina Danilovna Polyanskaya 1939; one s. two d.; ed. Kharkov Inst. of Agriculture and Higher Party School of Central Cttee. of CPSU; exec. work in Young Communist League, service in Soviet army and study at Higher Party School 1939-42; Party work in Siberia 1942-45; exec. in Cen. Cttee. of Party 1945-49; Second Sec. Crimea regional Cttee. of Party, and Chair. Exec. Cttee. Crimea regional Soviet of Working People's Deputies 1949-52; First Sec. Crimea regional Cttee. of Party 1953-55; First Sec. of Chkalov (now Orenburg) regional Cttee. 1955-57, First Sec. of Krasnodar territorial Party Cttee. 1957-58; Chair. Council of Ministers of R.S.F.S.R. 1958-62; Deputy Premier U.S.S.R. 1962-65, First Deputy Premier 1965-73; Deputy Supreme Soviet of the U.S.S.R. 1954-; mem. CPSU Cen. Cttee. 1956-; cand. mem. Presidium of Cen. Cttee. of CPSU 1958-60, mem. 1960-66; mem. Political Bureau 1966-76; U.S.S.R. Minister of Agric. 1973-76; Amb. to Japan 1976-; Order of Lenin (four times), Order of Peoples Friendship, and other awards. *Publications:* Pearl of Russia 1958, Great Plans for the Economic and Cultural Progress of the Russian Federation 1959. *Leisure interest:* winter hunting. *Address:* Embassy of the U.S.S.R., 2-1-1 Azabudai, Minato-ku, Tokyo, Japan. *Telephone:* 583-4297.

POLZE, Werner, DR.RER.POL.; German banker; b. 26 March 1931; ed. School of Economics, Berlin, Akademie für Staat und Recht der DDR (studies in government and law); worked for Deutsche Notenbank, G.D.R. 1956-66; joined Deutsche Aussenhandelsbank AG 1966, Vice-Pres. 1969-78, Pres. Feb. 1978-; Vaterländischer Verdienstorden, Orden Banner der Arbeit. *Address:* Deutsche Aussenhandelsbank, 108 Berlin, Unter den Linden 24-30, German Democratic Republic.

POMA, H.E. Cardinal Antonio; Italian ecclesiastic; b. 12 June 1910, Villanterio; ordained 1933; Titular Bishop of Tagaste 1951-54; Bishop of Mantua 1954-68; Archbishop of Bologna 1968-; cr. Cardinal 1969; Pres. Italian Episcopal Conf. *Address:* Arcivescovado, Via del Monte 3, 40126 Bologna, Italy.

POMFRET, John Edwin, A.M., PH.D.; American educator; b. 21 Sept. 1898, Philadelphia; m. Sara Wise 1926; one s.; ed. Univ. of Pennsylvania; Assoc. Prof. of History, Univ. of South Carolina 1924-25; Instr., Asst. Prof., and Assoc. Prof. of History Princeton Univ. 1925-37, also Asst. Dean 1934-36; Dean of Senior Coll. and Graduate School, Vanderbilt Univ. 1937-42; Pres. of the Coll. of William and Mary 1942-51; Dir. H.E. Huntington Library and Art Gallery 1951-66; Hon. LL.D. (Pa., Chattanooga, Mills Coll.), Hon. D.Litt., (Southern Calif., Claremont Graduate School, Claremont Colls). *Publications:* The Struggle for Land in Ireland 1930, The Geographic Pattern of Mankind 1935, California Gold Rush 1954, Twelve Americans Speak 1954, Province of West New Jersey 1956, Province of East Jersey 1962, New Jersey Proprietors and Their Lands 1965, History of Huntington Library and Art Gallery 1969, Founding the American Colonies 1970, A History of Colonial New Jersey 1973. *Leisure interest:* historical writings. *Address:* 1825 St. Julian Place, Columbia, S.C. 29204, U.S.A.

POMPEI, Gian Franco, DR.JUR.; Italian diplomatist; b. 31 Jan. 1915, Sète, France; s. of Raffaele Pompei (diplomat) and Countess Isabella Moroni Candelori; m. Ilde Scarpa 1939; one s. two d.; ed. Univ. of Turin; in Diplomatic Service 1939-, at Rome 1939-42; Vice-Consul Neuchâtel, Switzerland 1942-45; Sec., Berne 1945-47; Foreign Office, Rome 1947-50; Sec. then Counsellor, Paris Embassy 1950-63; Perm. Del. UNESCO 1953-63, elected mem. of Exec. Board 1962, 1966, Chair. of Exec. Board 1968-70; Diplomatic Adviser to Prime Minister Rome 1963-68; Head of Cabinet, Ministry of Foreign Affairs 1968; Amb. to the Holy See 1969-77, to France 1977-. *Leisure interests:* mountaineering, skiing, chess. *Address:* Embassy of the Republic of Italy, 51 rue de Varenne , 75007 Paris, France; 1e Via Bertoloni, Rome, Italy. *Telephone:* 544-3890 (Paris); 805300 (Rome).

PONCE ENRILE, Juan, LL.M.; Philippine lawyer and public official; b. 14 Feb. 1924, Gonzaga, Cagayan; s. of Alfonso Ponce Enrile and Petra Furugganan; m. Cristina Castañer 1957; one s. one d.; ed. Ateneo de Manila, Univ. of the Philippines and Harvard Law School; practising corpn. lawyer and Prof. of Taxation 1955-66; Under-secretary of Finance 1966-68; Acting Sec. of Finance; Acting Insurance Commr.; Acting Commr. of Customs; Sec. of Justice 1968-70; Sec. of Nat. Defence 1970-71 (resgnd.), 1972-78, Minister 1978-; Chair., Boards of Dirs. Philippine Nat. Bank until 1978, Nat. Investment and Devt. Co. mem., Special Cttee. on Govt. Investments, Surigao Mineral Board; Acting mem., Board of Industries; Dir., Philippine Communication Satellite Corpn.; Trustee and Sec., Board of Trustees, Cultural Centre of the Philippines; Chair. Exec. Cttee., Nat. Security Council, Board of Dirs., Philippine Veterans Bank, Philippine Coconut Authority; mem. and Dir., Philippine Tax Inst.; mem. Board, Nat. Econ. and Devt. Authority; mem. numerous law and commercial [illegible]. *Publications:* A Proposal on Capital Gains Tax 1960, Income Tax Treatment of Corporate Merger and Consolidation Revisited 1962, Tax Treatment of Real Estate Transactions 1964; also various articles on law, the military and government. *Leisure interests:* reading, golf, tennis, swimming, water-skiing, fishing. *Address:* Ministry of National Defence, Camp General Emilio Aguinaldo, Quezon City (Office); Urdaneta Village, Makati, Rizal, Philippines (Home). *Telephone:* 99-78-06 and 79-03-90.

PONCELET, Christian; French politician; b. 24 March 1928, Blaise; m. Yvette Miclot 1949; two d.; ed. Coll. Saint-Sulpice, Paris and Ecole Professionelle des Postes, Télégraphes et Télécommunications; Deputy to Nat. Assembly for the Vosges 1962-78; Deputy Sec.-Gen. U.D.R. 1971-76, responsible for social affairs; Sec. of State, Ministry of Social Affairs 1972-74; Sec. of State for

the Civil Service attached to Prime Minister Feb.-June 1974; Sec. of State for the Budget, Ministry of Economic Affairs and Finance 1974-77, for Relations with Parl. 1977-; Pres. Conseil Général des Vosges 1976-; mem. R.P.R. (fmr. U.D.R.). *Address:* 17 rue des Etats-Unis, 88200 Remiremont, France.

PONGE, Francis; French writer; b. 27 March 1899, Montpellier; s. of Armand Ponge and Juliette Saurel; m. Odette Chabanel 1931; one d.; ed. Lycée Frédéric-Mistral, Avignon, Lycée Malherbe, Caen, Lycée Louis-le-Grand, Paris, Faculty of Literature and Philosophy, Sorbonne, and Faculty of Law, Paris; Sec. Editions Gallimard, Paris 1923; with Hachette, Paris 1931-37; Head of Centre "Progrès de Lyon", Bourg-en-Bresse 1942; Political Traveller for Nat. Cttee. of Journalists 1942-44; Literary and Artistic Dir. Action 1944-46; Prof. at Alliance Française, Paris 1952-64; Virginia C. Gildersleeve Visiting Prof., Barnard Coll. and Columbia Univ. (French Dept.) 1966-67; mem. Bayerische Akademie der Schönen Künste; Officier Légion d'honneur; Int. Poetry Prize, Capri 1959, Int. Ingram Merrill Foundation Award 1972; Int. Books Abroad Literature Prize 1974. *Publications:* Douze petits écrits 1926, Le parti pris des choses 1942, Proêmes 1949, Le peintre à l'étude 1948, La Seine 1950, La rage de l'expression 1952, Le grand recueil (I Lyres, II Méthodes, III Pièces) 1961, Pour un Malherbe 1965, Tome premier 1965, Le savon 1967, Nouveau recueil 1967, Entretiens de Francis Ponge avec Philippe Sollers 1970, La fabrique du pré, Introduction au Braque de Draeger 1971, Introduction au Picasso de Draeger 1974, l'Ecrit Beaubourg 1977, Comment une figue de paroles 1977, L'atelier contemporain 1977, Correspondance avec Jean Paul Han 1923-1968 1979. *Leisure interests:* listening to and reading about the universal lot. *Address:* 34 rue Lhomond, 75 Paris 5e; Mas des Vergers, 06 Le Bar-sur-Loup, France. *Telephone:* 707-03-09 (Paris); (93) 67-90-45 (Le Bar-sur-Loup).

PONIATOWSKI, Prince Michel Casimir; French civil servant and politician; b. 16 May 1922, Paris; s. of Prince Charles-Casimir Poniatowski and the late Princess (née Anne de Caraman-Chimay); m. Gilberte de Chavagnac 1946; three s. one d.; ed. Ecoles des Roches, Verneuil-sur-Avre, and Univ. de Paris; with Ministry of Finance 1948-56; Financial Attaché in Washington 1956-57; Asst. Dir. du cabinet to Minister of Finance 1957-58; Econ. and Financial Counsellor in Morocco 1958; Asst. Dir. du cabinet to Prés. du Conseil 1958; Dir. du cabinet to Sec. of State for Finance, later to Minister of Finance 1959-62; Dir. du Cabinet, Ministry of Finance 1962; Del. for Foreign Investment, Overseas Finance Admin. 1962; Head of Mission Ministry of Finance 1962-65, Dir. of Insurance 1963-67; Ind. Republican Deputy 1967-; Sec.-Gen. Féd. des Républicains indépendants 1967-70, Pres. 1975-; Mayor of Isle-Adam 1971-; Minister of Health and Social Security 1973-74; Minister of State and of the Interior 1974-77; Roving Amb. (Personal Envoy of Pres.) 1977-; Chevalier de la Légion d'honneur, Médaille militaire, Chevalier de l'Ordre national du Mérite, Croix de guerre 1939-45, Commdr. Isabela la Católica, Officier du Ouissam alaouite. *Publications:* L'avenir des pays sous-développés 1954, Histoire de la Russie d'Amérique et de l'Alaska 1959, Talleyrand aux Etats-Unis 1967, Les choix de l'espoir 1970, Cartes sur table 1972, Les Jagellons 1973, Conduire le changement 1975, Cadoudal, Moreau et Pichegru 1977, L'avenir n'est écrit nulle part 1978. *Address:* 22 boulevard Jean Mermoz, 92200 Neuilly-sur-Seine, France.

PONNAMPERUMA, Lakshman George, PH.D., D.C.I., F.R.I.C., M.I.CHEM.E., C.ENG.; Ceylonese chemical engineer and administrator; b. 10 Oct. 1916; s. of Andreas Ponnamperuma and Grace Siriwardena; m. Mary Frances Marcelline 1950; two s. one d.; ed. Ceylon Univ. Coll. and Imperial Coll. of Science & Technology, London Univ.; Research Officer Dept. of Industries 1941-54; Man. Ceylon Govt. Cement Works 1954-58; Gen. Man. Ceylon Cement Corpn. 1958-65; Chair. Petro Chemicals Planning Cttee. 1960; Pres. Chemical Soc. of Ceylon 1964; Chair. and Man. Dir. Ceylon Cement Corpn. 1965-67; Dir. and Vice-Chair. Ceylon Inst. of Scientific and Industrial Research 1967; Consultant to UNESCO on Conf. on the Application of Science and Tech. to the Devt. of Asia (CASTASIA) 1967; mem. Industrial Cttee. of Nat. Planning 1959, ECAFE Advisory Council on Industrial Research 1966; Dir. Devt. Finance Corpn. of Ceylon 1965, of State Fertilizer Mfg. Corpn. 1966; mem. Board of Regents, Univ. of Ceylon 1966; Vice-Chair. Nat. Science Council of Ceylon 1968; Special Asst. to Asst. Dir.-Gen. for Science UNESCO 1970; Dir. ECAFE/UNESCO 1970; Dir. ECAFE/UNESCO Science and Technology Unit 1971; mem. Advisory Cttee. Tropical Products Inst. (London) 1971. *Publications:* works on technical and managerial subjects. *Leisure interests:* music, art, golf, photography, philately. *Address:* c/o UNESCO Regional Office for Asia, P.O. Box 1425, Bangkok, Thailand.

PONOMARYOV, Boris Nikolayevich; Soviet historian and politician; b. 17 Jan. 1905, Zaraisk, Ryazan region; ed. Moscow State Univ. and Red Professors' Inst.; Red Army 1919, Mil. Revolutionary Cttee. Zaraisk 1919-20; Young Communist League, Moscow Region 1920-22; Sec. Krasny Vostok Factory Party Org., Moscow Region 1922-23; mem. Propagandist Group, Cen. Cttee. of CPSU 1926-28; Asst. Dir. Red Professors' Inst. 1933-36; Exec Cttee. Communist Int. 1936-39; Asst. Dir. Marx-Engels-Lenin Inst. 1943-45; Cen. Cttee. CPSU 1944-46; First Dep. Chief Soviet Information Bureau, U.S.S.R. Council of Ministers 1946-49; Head of Dept., Cen. Cttee. CPSU 1949-61, mem. of Cen. Cttee. 1956-, Sec. 1961-, cand. mem. Political Bureau 1972-; Deputy to U.S.S.R. Supreme Soviet 1958-; Chair. Foreign Affairs Comm., Soviet of Nationalities; corresp. mem. Acad. of Sciences of U.S.S.R. 1958, mem. 1962-; Order of Lenin (five times); Order of Red Banner of Labour (twice), Sixty Years of Armed Forces of U.S.S.R. Medal, and other decorations. *Publications:* Works on history of CPSU and int. workers' movements. *Address:* Central Committee of Communist Party of Soviet Union, 4 Staraya Ploshchad, Moscow, U.S.S.R.

PONS, Bernard; French doctor and politician; b. 18 July 1926, Béziers; s. of Claude Pons and Véronique Vogel; m. Josette Cros 1952; five d.; ed. Faculté de Médecine, Montpellier; Gen. Practitioner Cahors 1952-67; Deputy to Nat. Assembly 1967-69, 1973-78; Sec. of State, Ministry of Agric. 1969-73; Conseiller général, Canton of Carjac 1967-; Municipal Councillor, Souillac 1971-; mem. Rassemblement pour la République (fmrly. U.D.R.); Député de la deuxième circonscription de l'Essone. *Leisure interests:* fishing, hunting, reading. *Address:* 14 rue François-Miron, 75004 Paris, France.

PONTE, Maurice Jules Henry; French scientist and business executive; b. 5 April 1902, Voiron, Isère; m. Nelly Andrews 1925; three c.; ed. Prytanée militaire, La Flèche and Ecole normale supérieure; research with Henri Abraham, Sir William Bragg and Prince Louis de Broglie 1924-29; with Compagnie Générale de T.S.F. (Radio); Pres. and Dir.-Gen. 1929-68, Hon. Chair. Thomson-CSF; Dir. Anvar (Agence Nationale de Valorisation de la Recherche) 1968-71; Pres. of French Soc. of Electricians 1948, of Radioelectricians 1949, Vice-Pres. Inst. of Radio-Engineers 1954; fmr. mem. Scientific Council of High Comm. for Atomic Energy; fmr. Pres. of Consultative Cttee. on Scientific Research 1959-63; mem. Académie des Sciences, Institut de France 1963-; Commandeur Légion d'honneur, Grand Croix Ordre national du Mérite, Commandeur de l'Education nationale. *Publications:* Papers on X-rays, Electronics and Radio-Electricity. *Leisure interests:* painting, tapestry, archaeology. *Address:* 5 square Mozart, Paris 16e, France. *Telephone:* 525-5783.

PONTECORVO, Bruno Maksimovich (brother of Guido Pontecorvo, *q.v.*, and Gillo Pontecorvo); Soviet (b. Italian) physicist; b. 22 Aug. 1913, Pisa, Italy; s. of Massimo Pontecorvo and Maria (née Maroni); ed. Pisa and Rome Univs.; Instructor Rome Univ. 1933-36; at scientific institutions in France 1936-40; in U.S.A. 1940-43; research at Chalk River, Canada, under E. Fermi, leading to devt. of neutron physics 1943-48; Assoc. Harwell Lab., U.K. 1948-50; went to U.S.S.R. 1950; mem. CPSU 1955-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-64, mem. 1964-; in charge of team at Joint Inst. for Nuclear Research, Dubna; U.S.S.R. State Prize 1954, Order of Lenin (twice), Lenin Prize 1963, and other decorations. *Address:* Joint Institute for Nuclear Research, Dubna, c/o Head Post Office, P.O. Box 79, Moscow, U.S.S.R.

PONTECORVO, Guido, DR.AGR., PH.D., F.R.S. (brother of Bruno Pontecorvo, *q.v.*, and Gillo Pontecorvo); British (b. Italian) scientist and university professor; b. 29 Nov. 1907, Pisa; s. of Massimo Pontecorvo and Maria (née Maroni); m. Leonore Freyenmuth 1939; one d.; ed. Università degli Studi, Pisa, and Univ. of Edinburgh; Asst. and later Regent of Section, Ispettorato Compartimentale Agrario, Florence 1930-38; Research Student, Inst. of Animal Genetics, Edinburgh 1938-40, Dept. of Zoology, Univ. of Glasgow 1941-43; Lecturer, Inst. of Animal Genetics, Univ. of Edinburgh 1943-45; Lecturer, Senior Lecturer, Reader, Dept. of Genetics, Univ. of Glasgow, Prof. 1945-68; Hon. Dir. Medical Research Council Unit for Cell Genetics 1964-68; mem. staff, Imperial Cancer Research Fund 1968-75, Hon. Consultant Geneticist 1975-; Jesup Lecturer, Columbia Univ. 1956, Messager Lecturer, Cornell Univ. 1957, Leeuwenhoek Lecturer, Royal Soc. 1962; Visiting Prof. Albert Einstein Coll. of Medicine, New York 1964, 1965, Washington State Univ. 1967; Royal Soc. Leverhulme Visiting Prof. Dept. of Biophysics, Rio de Janeiro 1969, Dept. of Biology, Pahlavi Univ., Iran 1974; Visiting Prof. Univ. Coll., London 1968-75, King's Coll., London 1969-70, Middlebury Coll., Vermont 1971, Univ. of Teheran 1975; Prof. Ospite Linceo, Scuola Normale Superiore, Pisa 1976-78; Sec. Genetical Soc. 1946-52, mem. of Council 1953-54, Vice-Pres. 1954-57, Pres. 1964-65; Vice-Pres. Inst. of Biology 1969-71; [illegible] Council, Soc. for Gen. Microbiology 1959-60; Fellow Royal Soc. of Edinburgh

(mem. Council 1958-61), of London (mem. Council 1958-59); Fellow Linnean Soc. London 1971; Foreign mem. Danish Royal Soc.; Hon. Foreign mem. American Acad. of Arts and Sciences; Hon. mem. Peruvian Soc. Medical Genetics 1969; Hon. D.Sc. (Leicester) 1968, (East Anglia) 1974, (Camerino) 1974; Hon. LL.D. (Glasgow) 1978; Hansen Prize 1961; Darwin Medal (Royal Soc.) 1978. *Publication:* Trends in Genetic Analysis. *Leisure interests:* alpine plant photography, mountaineering. *Address:* Imperial Cancer Research Fund, Lincoln's Inn Fields, London, W.C.2 (Office); Flat 25, Cranfield House, 97 Southampton Row, London, W.C.1, England (Home). *Telephone:* 01-636 9441.

PONTI, Carlo, LL.D.; French (b. Italian) film producer; b. 11 Dec. 1913, Magenta, Milan; s. of the late Leone Ponti and Maria (née Zardone); m. 2nd Sophia Loren (*q.v.*) 1966; two s. (also one s. one d. by previous marriage); ed. Università degli Studi, Milan; legal practice in office of Milan barrister 1935-38; film producer 1938-. Major films produced: Roma Città Aperta 1945 (New York Critics Prize 1947), To Live in Peace 1945, Attila 1953, Ulysses 1953, La Strada 1954 (Oscar), War and Peace 1955, Two Women 1960, (Oscar Award for best foreign actress) Boccaccio '70 1961, Yesterday, Today, Tomorrow 1963 (Oscar), Marriage, Italian Style 1964, Casanova '70 1964, Lady L 1965, Dr. Zhivago 1965 (six Oscars), The 25th Hour 1966, Blow Up 1966 (Cannes Film Festival Award), The Girl and the General 1966, More than a Miracle 1966, Ghosts, Italian Style 1967, Smashing Time 1967, Diamonds for Breakfast 1967, Best House in London 1968, A Place for Lovers 1968, Zabriskie Point 1969, Sunflower 1969, Priest's Wife 1970, Love Stress 1971, Mortadella 1971, Red, White and . . . 1972, Massacre in Rome 1973, Run Run Joe 1973, Verdict 1974, The Passenger 1974, Blood Money 1975, The Cassandra Crossing 1977. *Address:* Bürgenstock, Nidwalden, Switzerland; 32 Avenue George V, Paris 8e, France; 1 Piazza d'Ara Coeli 1, Rome, Italy.

PONTI, Gio(vanni); Italian architect and designer; b. 18 Nov. 1891, Milan; s. of Enrique Ponti and Giovanna Rigone; m. Giulia Vimercati 1921; one s. three d.; ed. Milan Polytechnic; designed and planned buildings in Milan, Padua, São Paulo, Buenos Aires, Baghdad, Stockholm, Caracas, Teheran, New York, Islamabad, Rome, Taranto, Beirut; with others designed Pirelli skyscraper, Milan; Consultant Architect in Paris, Lourdes, Rhodesia, Canada and Spain; worked on interior design of Italian liners (inc. Andrea Doria); designed costumes and settings for the La Scala Theatre, Milan, murals for Padua Univ.; contributed to the Triennale; organized Exhibitions overseas; designed furniture; Prof. of Architecture, Milan School of Architecture; mem. Nat. Acad. of St. Luke; founded and edits Domus (architectural magazine); Dr. h.c. (Royal Coll. of Art, U.K.). *Leisure interests:* painting, travelling. *Address:* Via Dezza 49, Milan, Italy.

PONTRYAGIN, Lev Semyonovich; Soviet mathematician; b. 3 Sept. 1908, Moscow; ed. Moscow Univ.; has been blind 1922-; Prof. of Mathematics at Moscow Univ. 1935-; discovered the general law of duality 1932, constructed the general theory of topological commutative groups; Corresp. mem. Acad. of Sciences of the U.S.S.R. 1939, mem. 1958; Hon. mem. Hungarian Acad. of Sciences 1972; Vice-Pres. Int. Mathematical Union 1970-74; Editor Matematicheski Sbornik 1978-; State prizewinner for his monograph Continuous Groups 1938; shared Lenin Prize for monograph Theory of Optimum Processes 1962; Hero of Socialist Labour; Order of Lenin (four times) and other decorations. *Publications:* The General Topological Theorem of Duality for Closed Sets 1934, Fundamentals of Combinational Topology 1947, Characteristic Cycles of Differential Manifolds 1947, Vector Fields in Manifolds 1949, Continuous Groups 1954, Smooth Manifolds and their Application in Homotopy 1955, Mathematical Theory of Optimum Processes (with others) 1961, Ordinary Differential Equations (textbook) 1961, One Probability Problem of Optimal Control 1962, On Some Differential Games 1964. *Address:* V.A. Steklov Mathematical Institute of the Academy of Sciences of the U.S.S.R., 28 Ulitsa Vavilova, Moscow, U.S.S.R.

POOLE, 1st Baron, cr. 1958, of Aldgate; **Oliver Brian Sander-son Poole,** P.C., C.B.E.; British politician and banker; b. 11 Aug. 1911; ed. Eton Coll. and Christ Church, Oxford; served 1939-45 war; M.P. for Oswestry Division of Salop 1945-50; mem. Lloyds; Joint Treas. Conservative Party Organization 1952-55, Chair. 1955-57, Deputy Chair. 1957-59, Jt. Chair. April-Oct. 1963, Vice-Chair. Oct. 1963- Oct. 1964; Chair. Thomas Stephens, Poole (Holdings); Chair. Whitehall Securities Corpn. Ltd.; Exec. Deputy Chair. Lazard Brothers Jan.-Oct. 1965, Chair. 1965-73; Chief Exec. S. Pearson 1973-75; Dir. Reserve Bank of Rhodesia 1965-; Trustee, Nat. Gallery 1973-. *Address:* 12 Egerton Terrace, London, S.W.3, England.

POPA, Dumitru; Romanian politician; b. 27 Feb. 1925, Bucharest; m. Emilia Popa; two s.; ed. Acad. of Economic Studies, Bucharest; joined Union of Communist Youth 1944; mem. Romanian Communist Party 1945-; First Sec. Hunedoara Region Cttee. of Romanian CP 1963-65; First Sec. Bucharest Cttee RCP and General Mayor of Bucharest 1966-72; mem. Central Cttee. 1965-; Alt. mem. Exec. Cttee. of RCP 1966-69; mem. 1969-72; mem. Nat. Assembly 1961–; Sec. Grand Nat. Assembly 1961-65; mem. Nat. Council of the Socialist Unity Front 1968-72; Amb. to Democratic People's Repub. of Korea 1972-78; Minister-State Sec. Ministry of Chemical Industry 1978-. *Address:* Ministerul Industriei Chimice, Splaiul Independenţei 202A, Bucharest, Romania. *Telephone:* 49 43 47.

POPA, Pretor; Romanian economist and diplomatist; b. 20 April 1922; m. Ileana Popa 1947; one d.; ed. Acad. for Economic Studies, Bucharest; Dir. at Ministry for Oil Extraction and Processing 1950-66; Gen. Dir. Ministry for Foreign Trade 1966-70; Deputy Minister at Ministry for Foreign Trade and Vice-Pres. Chamber of Commerce and Industry Bucharest 1970-72; Amb. to U.K. 1973-. *Address:* Embassy of Romania, 4 Palace Green, London, W8 4QD; and 1 Belgrave Square, London, S.W.1, England.

POPAL, Ali Ahmad, PH.D.; Afghan educationist, politician and diplomatist; b. 22 Feb. 1916, Kabul; s. of Mohammad Mukkaram Popal; m. Rabia Popal 1947; two s. three d.; ed. Nedjat Secondary School, Kabul, and Univ. of Jena; Teacher and Dir., Nedjat School, Kabul 1942-46; Dir. of Teachers Training Coll. 1946-47; Head of Primary Educ. Dept., Ministry of Educ. 1947-49, also Teacher and Dean in Faculty of Women, Kabul Univ. 1947-49; Head of Gen. Educ. Dept., Ministry of Educ. 1949-51, Deputy Minister of Educ. 1952-56, Minister of Educ. 1956-64, Second Vice-Premier 1962-64; Amb. to Fed. Repub. of Germany, also accred. to Sweden, Switzerland and Denmark 1964-66; Amb. to Turkey 1966-67; First Deputy Prime Minister and Minister of Educ. 1967-68; Amb. to Pakistan, also accredited to Sri Lanka and Thailand 1969-74, to Japan, also accred. to Australia and Repub. of Korea 1974-77; Order of Maaref, 3rd Class 1946, 1st Class 1964; Order of Sardar-e-Ali 1958, and orders from Egypt, Yugoslavia and Fed. Repub. of Germany. *Leisure interests:* swimming, tennis. *Address:* c/o Ministry of Foreign Affairs, Kabul, Afghanistan.

POPE-HENNESSY, Sir John Wyndham, Kt., C.B.E., F.B.A., F.S.A., F.R.S.L.; British museum director and art historian; b. 13 Dec. 1913, London; s. of late Major-Gen. L. H. R. Pope-Hennessy and late Dame Una Pope-Hennessy; ed. Balliol Coll., Oxford; joined staff Victoria and Albert Museum 1938, Keeper Dept. of Architecture and Sculpture 1954-66; Slade Prof. of Fine Art, Oxford Univ. 1956-57; Robert Sterling Clark Prof. of Art, Williams Coll., Williamstown, U.S.A. 1961-62; Slade Prof. of Fine Art, Cambridge Univ. 1964–65; Dir. Victoria and Albert Museum 1967-73, British Museum 1974-76; Consultative Chair. Dept. of European Paintings, Metropolitan Museum of Art, New York 1977-; Prof. of Art, New York Univ. 1977–. *Publications:* Giovanni di Paolo 1937, Sassetta 1939, Sienese Quattrocento Painting 1947, A Sienese Codex of the Divine Comedy 1947, The Drawings of Domenichino at Windsor Castle 1948, A Lecture on Nicholas Hilliard 1949, Paolo Uccello 1950, Fra Angelico 1952, Italian Gothic Sculpture 1955, Italian Renaissance Sculpture 1958, Italian High Renaissance and Baroque Sculpture 1963, Catalogue of Italian Sculpture in the Victoria and Albert Museum 1964, Italian Bronzes in the Kress Collection 1965, The Portrait in the Renaissance 1967, Essays on Italian Sculpture 1968, The Frick Collection Catalogue Vols. III and IV, Sculpture 1970, Raphael (The Wrightsman Lectures) 1970. *Leisure interest:* music. *Address:* 1130 Park Avenue, New York, N.Y. 10028, U.S.A. *Telephone:* 876-4636.

POPESCU, Dumitru; Romanian politician and writer; b. 18 April 1928, Turnu Măgurele; m. Maria Popescu; one s. two d.; ed. Acad. of Economic Studies, Bucharest; mem. of the Romanian Communist Party 1953-; Journalist on Contemporanul 1950-56; Editor-in-Chief Scinteia Tineretului 1956-60; Dir. Agerpres (Romanian News Agency) 1960-62; Vice-Chair. State Cttee. for Culture and Art 1962-65; Editor-in-Chief on Scinteia 1965-68; Pres. of the Council of Socialist Culture and Educ. 1971-76; Chair. Nat. Council of Romanian Radio-television 1976-; mem. of the Cen. Cttee. of RCP 1965–. Alt. mem. Exec. Political Cttee. 1968-69, mem. 1969-; Sec. Cen. Cttee. of RCP 1968-; Deputy to Grand Nat. Assembly 1965-; mem. Acad. of Social and Political Sciences 1970-. *Publications:* Impresii de călător (Egypt, Iraq, Cuba) 1962, Drumuri europene 1965, Biletul la control (essays) 1968, Pentru cel ales (poems) 1968, Un om in Agora (poems) 1972, Iesirea din labirint (essays) 1973, Gustul sîmburelui (poems) 1974. *Address:* Central Committee of the Romanian Communist Party, Bucharest, Romania.

POPJÁK, George Joseph, M.D., D.SC., F.R.I.C., F.R.S.; British biochemist; b. 5 May 1914, Kiskundorozsma, Hungary; s. of late George Popjak and late Maria Mayer; m. Hasel Marjory Hammond 1941; ed. Royal Hungarian Francis Joseph Univ., Szeged, Hungary, and Postgraduate Medical School, Univ. of London; British Council Scholar 1939-41; Demonstrator Dept. of Pathology, St. Thomas's Hospital, London 1941-47; Beit Memorial Fellow for Medical Research 1943-47; mem. Scientific Staff, Nat. Inst. for Medical Research, London 1947-53; Dir. Medical Research Council Experimental Radio-pathology Research Unit, Hammersmith Hospital, London 1953-62; Visiting Scientist, Nat. Heart Inst., Nat. Insts. of Health, Bethesda, Md., U.S.A. 1960-61; Joint Dir., Chemical Enzymology Lab., Shell Research Ltd. 1962-68; Assoc. Prof. in Molecular Sciences, Warwick Univ. 1965-68; Prof. of Biochem. Univ. of Calif. at Los Angeles Oct. 1968-; Foreign mem. Royal Flemish Acad. of Sciences and Fine Arts, Belgium; mem. American Acad. of Arts and Sciences 1971; Ciba Medal, Biochem. Soc. 1965; Stouffer Prize 1967; Davy Medal, The Royal Soc. 1968; Award in Lipid Chem., American Oil Chemists' Soc. 1977. *Publications:* Numerous articles in scientific journals, mainly on problems of lipid metabolism; monograph Chemistry, Biochemistry and Isotopic Trace Technique 1955. *Leisure interests:* music, sculpture and gardening. *Address:* Departments of Biological Chemistry and Psychiatry, University of California, Los Angeles, Calif. 90024 (Office); and 511 Cashmere Terrace, Los Angeles, Calif. 90049, U.S.A. (Home). *Telephone:* 213-476-4536.

POPKOV, Valeriy Ivanovich; Soviet electrical engineer; b. 3 Feb. 1908, Moscow; s. of Ivan Vasiliyevich and Praskoviya Petrovna Popkov; m. Anna Vasiliyevna Popkova 1930; one s. one d.; ed. Moscow Power Engineering Inst.; at All-Union Electrotechnical Inst. 1932-36, Head of Lab. 1936-73; Assoc., Power Eng. Inst., U.S.S.R. Acad. of Sciences 1943-; mem. CPSU 1951-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-66, mem. 1966-, Vice Acad. Sec. of Dept. of Physical and Technical Problems in Energetics; Pres. Int. Electrotechnical Comm. 1974; Order of Red Banner of Labour, Order of the October Revolution, Order of Lenin, Hero of Socialist Labour, Hammer and Sickle Gold Medal and other decorations. *Publications:* Works on gas discharges, high-voltage techniques and long-distance transmission. *Leisure interest:* rose gardening. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow 117901, U.S.S.R.

POPLE, John Anthony, M.A., PH.D., F.R.S.; British professor of theoretical chemistry; b. 31 Oct. 1925, Burnham, Somerset; s. of Keith Pople and Mary Jones; m. Joy Cynthia Bowers 1952; three s. one d.; ed. Univ. of Cambridge; Research Fellow Trinity Coll., Cambridge 1951-54, Lecturer in Math. 1954-58; Research Assoc., Nat. Research Council, Ottawa during summer 1956, 1957; Supt. Basic Physics Div., Nat. Physical Laboratory, Teddington (U.K.) 1958-64; Ford Visiting Prof. of Chem., Carnegie Inst. of Tech., Pittsburgh, Pa. 1961-62; Carnegie Prof. of Chemical Physics, Carnegie-Mellon Univ., Pittsburgh 1964-74, Acting Head, Dept. of Chem. 1967, John Christian Warner Univ. Prof. of Natural Sciences 1974-; mem. American Chemical Soc. 1965-, Int. Acad. of Quantum Molecular Science 1967-; Foreign Assoc., Nat. Acad. of Sciences 1977; Fellow, American Physical Soc. 1970-, American Acad. of Arts and Sciences 1971-; Smith's Prizeman (Cambridge) 1950, Marlow Medal of Faraday Soc. 1958, American Chemical Soc. Awards: Irving Langmuir 1970, Harrison Howe 1971, Gilbert Newton Lewis 1973, Pittsburgh 1975, Pauling Award 1977. *Publications:* co-author: High Resolution Magnetic Resonance 1959, Approximate Molecular Orbital Theory 1970; also over 200 publs. in scientific journals. *Leisure interest:* music. *Address:* Mellon Institute of Science, Carnegie-Mellon University, 5000 Forbes Avenue, Pittsburgh, Pa. 15213; 59 Holland Road, Pittsburgh, Pa. 15235, U.S.A. (Home). *Telephone:* (412) 578-3132 (Office); (412) 371-9250 (Home).

POPOV, Dimiter; Bulgarian politician; b. 29 March 1912, Ihtiman; s. of Peter Popov and Jiordana Popova; m. Eugenie 1938; two d.; ed. Sofia Univ.; active in communist movement until arrest in 1941, imprisoned 1941-44; Deputy Mayor of Sofia 1949, Mayor 1953-61; first Vice-Pres. Planning Cttee. 1962; Minister of Finance 1962-76; several national and foreign decorations. *Publications:* several publications concerning the state budget. *Leisure interest:* history. *Address:* Boulevard Klement Gottwald 58, Sofia, Bulgaria. *Telephone:* 44-62-94.

POPOV, Georgiy Ivanovich; Soviet engineer and politician; b. 1912; ed. Leningrad Inst. of Railway Transport Engineers; worker in Red Triangle Factory, Leningrad 1936-41, 1945-52; Soviet Army 1941-45; mem. CPSU 1942-; political and party work, Leningrad 1952-56; First Sec. Viborg Town Cttee., CPSU 1956-57; Second Sec. Leningrad District Cttee., CPSU 1957-60; First Sec. Leningrad City Cttee. CPSU 1960-; mem. Cen. Cttee. of CPSU 1964-71; Deputy to U.S.S.R. Supreme Soviet 1962-; mem. Cttee. U.S.S.R. Parliamentary Group; mem. Foreign Affairs Comm. Soviet of Union. *Address:* Leningrad City Committee of Communist Party of Soviet Union, Leningrad, U.S.S.R.

POPOV, Olyeg Konstantinovich; Soviet actor; b. 31 July 1930, Vyrubovo, Moscow Region; ed. Moscow State Circus School; clown on slack wire at Tbilisi Circus 1950; clown at Saratov Circus 1951; appeared in France, Britain, Poland, etc.; clown at Moscow Circus 1955-; People's Artist of R.S.F.S.R. and the U.S.S.R. 1969; Winner of Warsaw Int. Festival of Circus Art 1956, Oscar Prize, Brussels 1958; Order of Red Banner and other decorations. *Publication:* My Hero in the Fires of the Manezh 1961. *Address:* All Union Organization of State Circuses, 15 Neglinnaya ulitsa, Moscow, U.S.S.R.

POPOVIĆ, Koča; Yugoslav soldier and politician; b. 14 March 1908, Belgrade; s. of Aleksander and Ruža Popović; m. Lepa Perović 1947; ed. in Switzerland and Belgrade, attended univ. in France; fmr. mem. group of progressive Yugoslav writers; volunteer in Spanish Republican Army 1937-39; early organizer Yugoslav Liberation Army during 1941-45 war; later Divisional, Corps and Army Commdr.; Chief of the Gen. Staff 1946-53; Sec. of State for Foreign Affairs 1953-65; Head, Comm. for Int. Econ. and Political Relations, Yugoslav CP 1965-66; Vice-Pres. of Yugoslavia 1966-67; mem. Fed. Council 1969-71; mem. of Presidency of Yugoslavia 1971-72; decorations include Order of Freedom, Spomenica 1941, etc. *Address:* Lackovićeva 1A, Belgrade, Yugoslavia.

POPPER, Sir Karl (Raimund), Kt., M.A., PH.D., D.LIT., F.R.S., F.B.A.; British philosopher; b. 28 July 1902, Vienna, Austria; s. of Dr. Simon Siegmund Carl Popper and Jenny (née Schiff); m. Josephine Anna Henninger 1930; ed. Vienna Univ.; Sr. Lecturer in Philosophy, Canterbury Univ. Coll., Christchurch, New Zealand 1937-45; Reader in Logic, London Univ. 1945-48, Prof. of Logic and Scientific Method 1949-69, Emer. 1969; Head, Dept. Philosophy, Logic and Scientific Method, L.S.E. 1945-66; William James Lecturer, Harvard Univ. 1950; Fellow, Stanford Center for Advanced Study in the Behavioral Sciences 1956-57; Eleanor Rathbone Memorial Lecturer, Bristol Univ. 1956; Annual Philosophical Lecturer, British Acad. 1960; Shearman Lecturer, Univ. Coll. London 1961; Herbert Spencer Lecturer, Oxford Univ. 1961; Visiting Prof. Calif. and Minn. Univs. 1962, Indiana 1963, Univ. of Denver 1966; Farnum Lecturer, Princeton Univ. 1963, Inst. of Advanced Studies, Canberra 1963, Inst. of Advanced Study, Vienna 1964, Arthur Holly Compton Memorial Lecturer, Washington Univ. 1965; Henry D. Broadhead Memorial Lecturer, Univ. of Canterbury, Christchurch, N.Z. 1973; Visiting Fellow, Salk Inst. for Biological Studies 1966-67; Kenan Univ. Prof., Emory Univ. 1969; Ziskind Prof., Brandeis Univ. 1969; James Scott Lecturer, R.S.E. 1971; Romanes Lecturer, Oxford 1972; William Evans Prof., Univ. of Otago 1973; Visiting Erskine Fellow, Univ. of Canterbury 1973; Herbert Spencer Lecturer, Oxford 1973; Darwin Lecturer, Cambridge 1977; Tanner Lecturer, Univ. of Michigan 1978; Doubleday Lecturer, Smithsonian Inst. Washington D.C. 1979; mem. Council Assen. for Symbolic Logic 1951-55, Int. Acad. for Philosophy of Science 1948-; Fellow, British Acad. 1958-; Foreign Hon. mem. American Acad. Arts and Sciences 1966-; Hon. mem. Harvard Chapter of Phi Beta Kappa 1964-; Hon. mem. RSNZ 1965; Correspondant de l'Institut de France 1974-; Fellow Royal Soc. of London 1976-; Assoc. mem. Acad. Royale de Belgique 1976-; Hon. mem. Int. Acad. for History of Science 1977-; Pres. Aristotelian Soc. 1958-59, British Soc. for the Philosophy of Science 1959-61; Hon. LL.D. (Chicago, Denver); Hon. D.Lit. (Warwick); Hon. Litt.D. (Canterbury, N.Z., Salford, City Univ. of London, Guelph Ontario); Dr. Res. Nat. h.c. (Vienna), Dr. Phil. h.c. (Mannheim); Hon. Fellow, L.S.E.; Grand Decoration of Honour in Gold (Austria) 1976; Prize, City of Vienna 1965, Sonning Prize for services to European Civilization (Copenhagen) 1973; Lippincott Award, American Political Science Assen. (for The Open Soc.) 1976, Dr. Karl Renner Prize (Vienna) 1978. *Publications:* Logik der Forschung, The Open Society and Its Enemies, The Poverty of Historicism, The Logic of Scientific Discovery, Conjectures and Refutations: The Growth of Scientific Knowledge, Objective Knowledge: An Evolutionary Approach, Reply to my Critics, Unended Quest: An Intellectual Autobiography, The Self and Its Brain: An Argument for Interaction (with Sir John Eccles), Die beiden Grundprobleme der Erkenntnistheorie; over 100 papers in journals of learned societies trans. into 22 languages. *Leisure interests:* music, Jane Austen, Trollope. *Address:* Fallowfield, Manor Road, Manor Close, Penn, Bucks., England.

PORCHÉ, Wladimir; French radio and television official; b. June 1910; joined state broadcasting service 1935; organized early television programmes 1935-36; television research during the occupation; Dir.-Gen. Radiodiffusion-Télévision Française 1946-57,

Hon. Dir.-Gen. 1957-; Conseiller d'Etat 1956-; Légion d'honneur. *Publications:* Amours en Valespir, Le Chevalier Francoys. *Address:* 23 rue des Longs-Prés, 92-Boulogne-sur-Seine, France.

PORRIT, Baron (Life Peer), cr. 1973, of Wanganui in New Zealand and of Hampstead in Greater London; **Arthur Porritt,** Bt., G.C.M.G., G.C.V.O., C.B.E.; British surgeon and administrator; b. 10 Aug. 1900, Wanganui, New Zealand; s. of Ernest Edward and Ivy Elizabeth (McKenzie); m. 1st Molly Bond 1926, 2nd Kathleen Mary Peck 1946; two s. one d.; ed. Wanganui Collegiate School and Otago Univ., New Zealand, Oxford Univ. and St. Mary's Medical School, London; St. Mary's Hosp. Surgical Staff 1936-65; War Service with R.A.M.C. Second World War; mem. Royal Medical Household 1936-67; Surgeon to Duke of York 1936, to Household 1937-46, to King George VI 1946-52, Sergeant-Surgeon to Queen Elizabeth 1953-67; Consulting Surgeon to the Army; Pres. Royal Coll. of Surgeons of England 1960-63; Pres. B.M.A. 1960-61; Pres. Royal Soc. of Medicine 1966-67; mem. Int. Olympic Cttee. 1934-67; Chair. British Commonwealth Games 1948-67, now Vice-Pres.; Gov.-Gen. of New Zealand 1967-72; Pres. Arthritis and Rheumatism Council 1974-, African Med. Research Foundation, Medical Council on Alcoholism; Chair. Royal Masonic Hosp.; Vice-Pres. Royal Commonwealth Soc.; Hon. Fellow, Royal Coll. of Surgeons of Edinburgh, Glasgow, Ireland, Australasia and Canada, American and South African Colls. of Surgeons, Royal Coll. of Physicians of U.K. and Australasia, Royal Coll. of Obstetricians and Gynaecologists; Hon. LL.D. (St. Andrews, Birmingham, Otago and New Zealand), Hon. D.Sc. (Oxford), Hon. M.D. (Bristol); Gold Medal of B.M.A.; Bronze Medal 100 metres, Olympic Games 1924. *Publications:* Athletics (with D. G. A. Lowe) 1929, Essentials of Modern Surgery (with R. M. Handfield-Jones) 1939. *Address:* 57 Hamilton Terrace, London, N.W.8, England. *Telephone:* 01-286 9212.

PORSILD, (Alf) Erling, M.B.E., PH.D., F.R.S.C.; Canadian (b. Danish) botanist; b. 17 Jan. 1901, Copenhagen; s. of Dr. Morten P. Porsild and Kirstine Porsild; m. Margrit Stoeffel; one d.; ed. Sorø Acad. and Copenhagen Univ.; Botanical Asst. Danish Arctic Research Station, Disko, Greenland 1922-25; botanist in charge of grazing studies and introduction of domesticated reindeer from Alaska to Canada 1926-35; Curator and Head of Div. of Botany, Nat. Museum of Canada, Ottawa 1936-45, Chief Curator 1945-67, Hon. Curator Emer. 1968-; Canadian Consul to Greenland 1941-44; has done extensive field work or led botanical expeditions to Alaska, Yukon, Arctic and Subarctic Canada, Rocky Mountains and Arctic and Alpine parts of Europe; Foreign Hon. mem. American Acad. of Arts and Sciences, and Botanical Socs. in Norway, Sweden and Finland; Massey Medal 1966, George Lawson Medal, Canadian Botanical Assn. 1971. *Publications:* Botany of Southeastern Yukon 1951, Vascular Plants of the Western Canadian Arctic Archipelago 1955, Illustrated Flora of the Canadian Archipelago 1957, 1963, Rocky Mountains Wildflowers in Colour 1971; and over 200 scientific and popular papers and articles, mainly on the taxonomy and distribution of plants. *Address:* 45 Leonard Avenue, Ottawa 1, Ontario, Canada.

PORT, Arthur Tyler, LL.B.; American lawyer and administrator; b. 4 Oct. 1916, Chicago, Ill.; s. of Arthur C. Port and Helen E. Brown; m. Aline H. Gooding 1950; one s. one d.; ed. Davidson Coll. and Yale Law School; Admitted to law practice 1940; military service 1942-46; attorney, Judge Advocate Div. H.Q. European Command, Frankfurt 1946-48; Legal Asst. to Special Adviser to C.-in-C. and U.S. Mil. Gov. for Germany, Berlin 1949; Consultant to Sec. of Army 1949-50; Special Assistant to Sec. of Army 1951-55; Exec. Asst. to the Asst. Sec. of Defense 1955-57; Dir. Office of Security Policy, Office of Sec. of Defense 1957-61; Deputy Asst. Sec. of Army for Installations and Logistics 1961-67; U.S. Foreign Service Reserve Officer, Dept. of State 1967-; Asst. Sec.-Gen. for Defense Support NATO 1967-73; Special Asst. for Energy, Dept. of Army 1973-74, Asst. Sec. Dept. for Supply, Maintenance and Transport 1974-; Chair. NATO Conf. of Nat. Armament Dirs. 1968, 1969-; U.S. Dept. of Defense Distinguished Civilian Service Medal; U.S. Dept. of Army Decoration for Exceptional Civilian Service; Hon. LL.D. *Leisure interests:* book collecting, gardening, motor racing. *Address:* Department of the Army, Washington, D.C. 20310; 6515 Hillmead Road, Bethesda, Md. 20034, U.S.A. (Home).

PORTER, Andrew, M.A.; British music critic; b. 26 Aug. 1928, Cape Town, S.A.; s. of Andrew Ferdinand and Vera Sybil (Bloxham) Porter; ed. Diocesan Coll., Rondebosch, Cape Town, University Coll., Oxford; Music critic The Financial Times 1950-74; Editor The Musical Times 1960-67; music critic The New Yorker 1972-; Visiting Fellow All Souls Coll., Oxford 1973-74; ASCAP—Deems Taylor Award 1975-78. *Publications:* A Musical Season 1974, Wagner's Ring 1976, Music of Three Seasons 1978. *Leisure interest:* architecture. *Address:* c/o The New Yorker, 25 West 43rd Street, New York, N.Y. 10036, U.S.A. *Telephone:* (212) 840 3700.

PORTER, Arthur T., M.A., PH.D.; Sierra Leonean professor and administrator; b. 26 Jan. 1924, Freetown; s. of Guy H. and Adina A. Porter; m. Rigmor Søndergaard Rasmussen 1953; one s. one d.; ed. Fourah Bay Coll., Sierra Leone, Cambridge Univ., Inst. of Educ., London and Boston Univ., U.S.A.; Asst. Dept. of Social Anthropology Edinburgh Univ. 1951-52; Lecturer in History Fourah Bay Coll. 1952-56; research in African Studies, Boston Univ. 1956-58; Prof. of Modern History Fourah Bay Coll., Later Vice-Principal 1960-64; Principal Univ. Coll., Nairobi 1964-70; UNESCO Adviser on Ministry of Educ., Educ. Planning to Kenya Govt. 1970-74; Vice-Chancellor Univ. of Sierra Leone 1974-; Sierra Leone Independence Medal 1961; Yugoslav Flag with Gold Star. *Publication:* Creoledom. *Leisure interest:* photography. *Address:* University of Sierra Leone, Private Mail Bag, Freetown, Sierra Leone. *Telephone:* Freetown 6859.

PORTER, Eric Richard; British actor; b. [redacted] April 1928, London; s. of Richard John Porter and Phoebe Elizabeth Porter (née Spall); ed. L.C.C. and Wimbledon Tech. Coll.; first professional appearance in Shakespeare, Arts Theatre, Cambridge 1945; first appearance, London stage in Saint Joan 1946; Bristol Old Vic. Co. 1954, 1955-56; with Old Vic. Co. 1954-55; British tour with Lynne Fontanne and Alfred Lunt 1957, New York 1958; joined Royal Shakespeare Co. (R.S.C.) 1960: roles include Barabbas (The Jew of Malta), Shylock (The Merchant of Venice) 1965, Chorus (Henry V) 1965, Ossip (The Government Inspector) 1966; title roles, King Lear, Dr. Faustus Stratford 1968; toured Dr. Faustus with R.S.C. 1969; actor and Dir. My Little Boy—My Big Girl 1969, The Protagonist 1971, Capt. Hook, Mr. Darling in Peter Pan 1971, Twelfth Night, St. George's Elizabethan Theatre 1976. *Films include:* The Fall of the Roman Empire 1964, The Pumpkin Eater 1964, The Heroes of Telemark 1965, Kaleidoscope 1966, The Lost Continent 1968, Hands of the Ripper 1971, Nicholas and Alexandra 1971, Anthony and Cleopatra 1972, The Last Ten Days of Hitler, The Day of the Jackal, The Belstone Fox 1973, Callan 1974, Hennessy 1975, The Thirty-Nine Steps 1978; many television appearances include title role, Cyrano de Bergerac, Jack Tanner (Man and Superman), Soames Forsyte (The Forsyte Saga), Separate Tables, Tolstoy, Macbeth 1970, When We Are Married, The Glittering Prizes, The Canal Children, The Winslow Boy, Anna Karenina; Evening Standard Drama Award Best Actor of 1959, Guild of Television Producers and Directors Award to Television Actor of the Year 1967. *Leisure interests:* walking, swimming, gardening. *Address:* c/o London Management, 235/241 Regent Street, London, W1A 2JT, England.

PORTER, Sir George, Kt., M.A., SC.D., F.R.S.; British professor of chemistry; b. 6 Dec. 1920, Stainforth; m. Stella Brooke 1949; two s.; ed. Thorne Grammar School, Leeds Univ. and Emmanuel Coll., Cambridge; [redacted] service in R.N.V.R.; Demonstrator Physical Chemistry, Univ. of Cambridge 1949-52, Asst. Dir. of Research 1952-54; Prof. of Physical Chemistry, Univ. of Sheffield 1955-63, Firth Prof. and Head of Dept. of Chemistry 1963-66; Prof. of Chemistry, The Royal Institution, London 1963-66; Dir. and Fullerian Prof. of Chemistry, The Royal Inst. 1966-; Pres. Comité Int. de Photobiologie 1968-72; Pres. Chemical Soc. 1970-72, Faraday Div. 1973-74, Nat. Assn. for Gifted Children 1975-; mem. Aeronautical Research Council 1964-66, of Council Open Univ. 1969-75, Science Museum Advisory Council 1970-73; Trustee, British Museum 1972-74; mem. Science Research Council 1976-, Science Board 1976-; Pres. Research and Devt. Soc. 1977; mem. Royal Soc. of Arts Council 1978; Foreign Corres. mem. La Real Acad. de Cirencias, Madrid 1978; Hon. mem. New York Acad. of Sciences 1968, Leopoldina Acad. 1970, Pontifical Acad. of Sciences 1974; Foreign Assoc. U.S. Nat. Acad. of Sciences, Washington; Corresp. mem. Göttingen Acad. of Sciences; Hon. Fellow Inst. of Patentees & Investors 1970; Hon. Fellow, Emmanuel Coll., Cambridge; Hon. Prof. Univ. of Kent; Visiting Prof., Univ. Coll., London; Hitchcock Prof. Univ. of Calif. at Berkeley 1978; Robertson Memorial Lecturer 1978; Romanes Lecturer Oxford 1978; Hon. D.Sc. (Univ. of Sheffield 1968, Univ. of Utah 1968, Univs. of East Anglia, Surrey, Durham 1970, Univs. of Leicester, Leeds, Heriot-Watt, City Univ. 1971, Univs. of Manchester, St. Andrews, London 1972, Kent 1973, Oxford 1974); Corday-Morgan Medal Chemical Soc. 1955; Liversidge Lecturer, Chem. Soc. 1970; shared with Prof. R. G. W. Norrish (*q.v.*) half of Nobel Prize for Chem. for work on photo-chemistry 1967; Davy Medal, Royal Soc. 1971; Fairchild Distinguished Scholar, Calif. Inst. Tech. 1974; 1976 Kalinga Prize for the Popularisation of Science 1977; Prize of the Nat. Acad. of Sciences 1978; Rumford Medal (Royal Society) 1978; Communications Award of the European Physical Society 1978. *Publications:* Chemistry for the Modern World 1962, Progress in Reaction Kinetics (Editor), and numerous scientific papers; B.B.C. Television series Laws of Disorder 1965, Time Machines 1969-70. *Leisure interest:* sailing.

Address: The Royal Institution, 21 Albemarle Street, London, W1X 4BS, England. *Telephone:* 01-409 2992; 01-493 2710.

PORTER, Hal; Australian author and playwright; b. 16 Feb. 1911, Albert Park, Vic.; s. of Harold Owen Porter and Ida Violet (née Ruff) Porter m. Olivia Parnham 1939 (divorced 1943); ed. Kensington and Bairnsdale State Schools, Bairnsdale High school; Schoolmaster, Educ. Dept. of Victoria State 1927-37, Queen's Coll., Adelaide 1938-41, Prince Alfred Coll., Adelaide 1942-45, Hutchings School, Hobart 1946-47, Knox Grammar School, Sydney 1947-48, Ballarat Coll., Ballarat 1948-49, Nijimura School, Japan 1949-51; Regional Librarian for Gippsland and North Central Vic. 1952-60; full-time author 1961-; Commonwealth Literary Fellowships 1956, 1960, 1964, 1968, 1972, 1974-76, 1977-79; Britannica Literary Award 1976. *Publications:* Short Stories 1942, The Hexagon 1956, A Handful of Pennies 1958, The Tilted Cross 1961, A Bachelor's Children 1962, The Tower 1963, The Watcher on the Cast-Iron Balcony 1963, The Cats of Venice 1965, Stars of the Australian Stage and Screen 1965, The Paper Chase 1966, The Professor 1966, The Actors: ▪ Image of the New Japan 1968, Elijah's Ravens 1968, Eden House 1969, Mr. Butterfry 1970, Selected Stories 1971, The Right Thing 1971, It Could be You 1972, Fredo Fuss Love Life 1974, In an Australian Country Graveyard 1974, The Extra 1975, Bairnsdale: Portrait of ▪ Australian Country Town 1977, A Portable Hal Porter 1978, Parker 1979, Lovers Meeting 1979. *Leisure interests:* collecting silver, growing old-fashioned roses, travelling. *Address:* Glen Avon, Garvoc, Vic. 3265, Australia. *Telephone:* (055) 918 201.

PORTER, Katherine Anne; American writer; b. 15 May 1890, Indian Creek, Brown County, Texas; d. of late Harrison Boone Porter and late Mary Alice Jones; m. 1st Eugene Dove Pressly 1933 (divorced), 2nd Albert Russel Erskine Jr. 1938 (divorced); ed. private schools and convents in southern U.S.A.; Guggenheim Fellowship for work in fiction 1931-32, renewed 1938-39; Fellow of Library of Congress (Fellow of Regional American Literature) 1944; Vice-Pres. Nat. Inst. of Arts and Letters New York 1950-52; Fulbright Lecturer, Univ. of Liège 1954-55; elected mem. Nat. Acad. Arts and Letters 1967; awarded Gold Medal of Soc. for the Libraries of New York Univ. 1940; two-year Ford Foundation Grant 1960-62; Hon. D. Litt. (Univ. of N. Carolina, Women's Coll., Smith Coll., La Salle Coll., Rutgers Univ., Maryville Coll.); Hon. D.H.L. (Univs. of Michigan and Maryland); Emerson-Thoreau Medal (American Acad. of Arts and Sciences); Nat. Book Award 1966; Pulitzer Prize 1966; Bronze Medal for Services to Literature (Hollins Coll.) 1967. *Publications:* Flowering Judas (short stories) 1930, Pale Horse, Pale Rider (3 short novels) 1939, The Leaning Tower (short stories) 1944, The Days Before (collected essays) 1952, K.A.P.'s French Song Book (trans. from French) 1933, The Itching Parrot (novel, trans. from Spanish) 1942, Ship of Fools (novel) 1962, Collected Stories of Katherine Anne Porter 1965, A Christmas Story 1968, Collected Essays 1970, Noon Wine (short novel), The Never-Ending Wrong (memoir) 1977. *Leisure interests:* growing trees, gardening, playing ancient music on the spinet, reading, seeing friends. *Address:* 6100 Westchester Park Drive, College Park, Md. 20740, U.S.A.

PORTER, Leslie; British company executive; b. 10 July 1920, London; s. of Henry Alfred and Jane (Goldstein) Porter; m. Shirley Cohen 1949; one s. one d.; ed. Holloway Coll.; served British Army 1939-46; Man. Dir. J. Porter & Co. Ltd., importers and distributors 1946-60; joined Tesco Stores (Holdings) Ltd., superstores, supermarkets, chain stores, furniture stores 1961, Man. Dir. and Deputy Chair. 1972-73, Chair. and Chief Exec. 1973-; mem. Lloyds 1966-; Pres. Inst. Grocery Distribution (IGD); mem. President's Council, Baptist Coll. of Hong Kong; Hon. Ph.D. *Leisure interests:* golf, yachting. *Address:* Tesco Stores (Holdings) Ltd., Tesco House, Delamare Road, Cheshunt, Waltham Cross, Herts.; 19 Chelwood House, Gloucester Square, London, W.2, England (Home). *Telephone:* Waltham Cross 32222(Office); 01-262 2911 (Home).

PORTER, Richard William, B.S.E.E., PH.D.; American electrical and technological executive; b. 24 March 1913, Salina, Kansas; s. of Thomas F. and Dora (Schermerhorn) Porter; m. Edith Wharton Kelly 1946; one s. two d.; ed. Univ. of Kansas and Yale Univ.; Gen. Electric Co. 1937, originated first mil. and commercial applications of amplidyne generators 1937-45, responsible for aircraft automatic tracking equipment for first fire control radar 1940-41; Manager Guided Missiles Dept. 1950-55, Consultant Engineering Services, Gen. Electric Co. 1955-63, Consultant Aero Space Science and Technology 1963-70, Man. Scientific & Technological Affairs, Aerospace Group 1970-76; Advisory Cttee. U.S. Dept. of Defense 1955-56; Scientific Advisory Board U.S. Air Force 1948-51. Chair. Geophysics Panel 1960-78; mem. Space Science Board, Nat. Acad. of Sciences 1958-70; Chair. Int. Relations Cttee. 1959-70; Adviser U.S. Del. to UN 1962-70; Vice-Pres. Cttee. on Space Research, Int. Council of Scientific Unions 1959-71; mem. Nat. Council of Scholars 1968-72; AIBS Planetary Quarantine Advisory Cttee. 1970-75; New York City Sciences & Tech. Advisory Council to the Mayor 1966-73; Private Consultant Aerospace, Energy and Environmental Science and Technology 1976-; Hon. D.Sc. (Yale); numerous awards. *Publications:* Das Amerikanische Erdsatellitenprogram 1956, Recovery of Data in Physical Form 1956, What the Future Holds 1958, Preview of Scientific Progress 1959, Weather Modification and Space Exploration 1959, Adventures in Energy Conversion 1960, The Versatile Satellite 1977. *Leisure interests:* horticulture, skiing, sailing. *Address:* 1154 East Putnam Avenue, Riverside, Conn. 06878; 164 Cat Rock Road, Cos Cob, Conn. 06807, U.S.A.

PORTER, Rodney Robert, PH.D., F.R.S.; British biochemist; b. 8 Oct. 1917; ed. Liverpool and Cambridge Univs.; mem. scientific staff, Nat. Inst. for Medical Research, Mill Hill, London 1949-60; Pfizer Prof. of Immunology St. Mary's Hosp. Medical School, London Univ. 1960-67; Prof. of Biochemistry, Univ. of Oxford 1967-; mem. Medical Research Council 1970-74; Linacre Lecturer, Cambridge Univ. 1975; Gowland Hopkins Memorial Lecture, Biochemical Soc. 1977; Hon. Foreign mem. American Acad. of Arts and Sciences 1968; Foreign Assoc. U.S. Nat. Acad. of Sciences 1972; Nobel Prize for Medicine (jointly with G.M. Edelman *q.v.*) 1972, Royal Soc. Medal 1973. *Address:* Department of Biochemistry, South Parks Road, Oxford, OX1 3QU (Office); Downhill Farm, Witney, Oxon., England (Home).

PORTER, William James; American diplomatist; b. 1 Sept. 1914, England; s. of William and Sarah (Day) Porter; m. Eleanore E. Henry 1944; twin s. and d.; ed. Thibodeau Business Coll., Southeastern Mass. Univ.; entered U.S. Foreign Service 1936; served in Hungary, Iraq, Lebanon, Syria, Palestine, Cyprus, Morocco, Algeria and several positions in Dept. of State 1936-62; Amb. to Algeria 1962-65; Deputy Amb. (with rank of Amb.) to Viet-Nam 1965-67; Amb. to Repub. of Korea 1967-71; Chief Negotiator, U.S. Del. to Paris talks on Viet-Nam 1971-73; Under-Sec. of State for Political Affairs 1973-74; Amb. to Canada 1974-75, to Saudi Arabia 1975-77; Dept. of State Distinguished Honour Award, President's Award for Distinguished Fed. Civilian Service, Viet-Nam Service Award. *Address:* c/o Department of State, Washington, D.C. 20520, U.S.A.

PORTMANN, Adolf, DR.PHIL.; Swiss professor; b. 27 May 1897, Basel; s. of Adolf and Elisabeth Portmann-Rohr; m. Genevieve Devillers 1931; ed. Univs. of Basel, Paris, Munich, Berlin and Geneva; Privat Dozent Univ. of Basel 1926-38, Prof. of Zoology and Dir. of the Zoological Laboratory 1931-68, Rector of the Univ. 1947; Pres. Int. Assen. Univ. Profs. 1948-51, Pres. Rectors' Conf. (Swiss Univs.) 1962-69. *Publications:* Biologische Fragmente zu einer Lehre vom Menschen 1951, Einführung in die vergleichende Morphologie der Wirbeltiere 1959, Die Tiergestalt 1960, Das Tier als soziales Wesen 1956, Biologie und Geist 1956, Neue Wege der Biologie 1961, Entlässt die Natur den Menschen 1970, Vom Lebendigen 1973, An den Grenzen des Wissens 1974. *Address:* Neubadrain 2, 4102 Binningen, Basel—Land, Switzerland.

POSNETT, Richard Neil C.M.G., O.B.E., M.A.; British barrister-at-law and diplomatist; b. 19 July 1919, Kotagiri, India; s. of Rev. Charles Walker Posnett and Phyllis (née Barker); m. Shirley Margaret Hudson 1959; two s. one d. (two s. one d. by previous marriage); ed. Kingswood School, St. John's Coll., Cambridge; Royal Air Force 1940; Colonial Admin. Service, Uganda 1941-60; Chair. Uganda Olympic Cttee. 1956-58; Judicial Adviser 1960; Perm. Sec. for Social Devt., External Affairs, Trade and Industry 1961-63; Foreign Office 1964-66; U.K. Mission to UN 1966-70; briefly H.M. Commr., Anguilla 1969; Head of West Indian Dept., Foreign and Commonwealth Office 1970-72; Gov. and C.-in-C., Belize 1972-76; mission to Ocean Island (Banaba) 1977; Foreign and Commonwealth Office Adviser on Dependent Territories 1977-; U.K. Commr., Board of British Phosphate Commrs. 1978-; mem. Royal Inst. of Int. Affairs; Fellow, Royal Commonwealth Soc.; K. St. J. 1972. *Leisure interests:* skiing, growing trees. *Address:* Timbers, Northway, Godalming, Surrey, England (Home). *Telephone:* 233-8087.

POSOKHIN, Mikhail Vasiliyevich; Soviet architect and politician; b. 13 Dec. 1910; ed. Moscow Architecture Inst.; decorator of a theatre 1927-28; technician, work superintendent, architect, at construction of Kuznetsk iron and steel works 1928-35; Leading Architect, Moscow Design Dept. 1935-, Moscow Architecture Dept. 1938-60; Moscow Chief Architect 1960-; Chair. State Cttee. for Civil Engng. and Architecture and Vice-Chair. U.S.S.R. State Cttee. for Construction at U.S.S.R. Council of Ministers 1963-67; Head, Main Admin. of Architecture and Planning of Moscow, Chief Architect of Moscow 1967-; Head of team working ▪ general plan of Moscow

to 1985 1971-; mem. CPSU 1961-; Deputy to U.S.S.R. Supreme Soviet (Soviet of Union) 1962-; mem. Comm. for Construction and Building Materials Industry, Soviet of Union; mem. Cttee. U.S.S.R. Parliamentary Group; State Prize 1949, Order of Lenin (three times); principal designs include multi-storeyed block of flats, Vosstaniy Square, Moscow 1948, Palace of Congresses in the Kremlin, Moscow 1961, U.S.S.R. Pavilion at Expo, Montreal 1967, Osaka 1970; People's Architect of U.S.S.R. *Publication:* A City for People 1973. *Address:* Executive Committee, Moscow City Soviet of Working People's Deputies, 13 Ulitsa Gorkogo, moscow, U.s.s.r.

POSTEL-VINAY, André; French civil servant; b. 4 June 1911, Paris; s. of Marcel Postel-Vinay and Madeleine Delombre; m. Anise Girard 1946; four c.; ed. Univ. of Paris; Financial Inspector 1938; General Man. Caisse Centrale de Coopération Economique 1944-72; Pres. de la Comm. des opérations de bourse 1973-74; Commdr. Légion d'honneur, Compagnon de la Libération, Membre du Conseil de l'Ordre de la Libération, Grand Officier de l'Ordre nat. du Mérite. *Address:* 7 place Pinel, 75013 Paris, France.

POSWICK, Charles, LL.D.; Belgian lawyer and politician; b. 6 Oct. 1924, Limbourg; s. of Jules Poswick and Marthe Roberti; Attaché, Cabinet of Prime Minister Eyskens 1949-50, later Asst. Chef de Cabinet, Ministry of Justice 1952-54; mem. of Parl. for Namur 1965-; Minister of Nat. Defence 1966-68; Vice-Pres. Parti de la Liberté et du Progrès (PLP) 1961-66, mem. Exec. Cttee. 1968-; Vice-Pres. Parl. 1977-; partner Puissant Baeyens, Poswick and Co. (stockbrokers). *Address:* Puissant Baeyens, Poswick and Co., 36 rue Ravenstein, Brussels, Belgium.

POTÁČ, Svatopluk, ING.; Czechoslovak banker; b. 24 March 1925; ed. School of Economics, Prague; Entered Státní Banka Československá 1952, Dept. Man. 1956-58, Chief Man. 1959-64, Deputy Gen. Man. 1964-69, Chair. of Board and Gen. Man. 1969-71, Pres. 1971-; mem. Central Comm. of People's Control; mem. Scientific Council, Finance Research Inst.; mem. of Board, Int. Bank for Economic Co-operation, Moscow, Int. Investment Bank; Pres. of Directorate, Joint Stock Co. of the Czechoslovak Commercial Bank 1970-; Vice Chair. Scientific Collegium of Econs. of Czechoslovak Acad. of Science; mem. Council for Int. Econ. Scientific and Technical Co-operation; mem. State Comm. for Planning; mem. State Comm. for Wages; Order of Labour 1975. *Address:* Františka Křižka 13, 170 00 Prague 7, Czechoslovakia.

POTEZ, Henry Charles Alexandre; French construction engineer; b. 30 Sept. 1891; ed. Ecole Nationale Supérieure Aéronautique; pres. Chamber of Aeronautical Industries 1931-35; Pres. Société de Gestion Immobilière (fmrly. Soc. des Aéroplanes Henry Potez); Vice-Pres. Soc. Gaumont; Dir. various cos.; Hon. Pres. Asscn. Française des Ingénieurs et Techniciens de l'Aéronautique; Pres. Amis du Musée de l'Air; Hon. Pres. fmr. Students of Ecole Nat. Supérieure de l'Aéronautique, Union Syndicale des Industries Aéronautiques et Spatiales; Grand Officier Légion d'honneur; Grand Croix de l'Ordre nationale du Mérite; Commdr. d'Economie nationale; Médaille de l'Aéronautique; several foreign orders. *Address:* 46 avenue Kléber, 75116 Paris; 21 avenue du Maréchal-Maunoury, 75016 Paris, France. *Telephone:* 504-07-43.

POTTER, Rev. Dr. Philip Alford, M.TH.; West Indian Methodist minister and church official; b. 19 Aug. 1921, Dominica; s. of Clement Potter (deceased) and Violet Peters; m. Doreen Cousins 1956; ed. Caenwood Theological Coll., Jamaica, Richmond Coll., England and London Univ.; Missionary and Overseas Sec. Student Christian Movement of Great Britain 1948-50; Minister, Methodist Church, Haiti 1950-54; World Council of Churches, Sec. Youth Dept. 1954-57, Exec. Sec. 1957-60, Dir. Comm. on World Mission and Evangelism 1967-72, Gen. Sec., Geneva 1972-; Sec. for West Africa and West Indies, Methodist Missionary Soc., London 1961-66; Hon. Th.D. (Univ. of Hamburg 1971, Univ. of Geneva 1976, Theol. Inst. of Romanian Orthodox Church 1977); Hon. LL.D. (Univ. of West Indies) 1974. *Publications:* Key Words of the Gospel 1964, Explosives Lateinamerika (chapter in book edited by T. Tschuy); Review of Mission, Student World, 10 Fragen an die Weissen 1973, The Love of Power or The Power of Love 1974, Living the Christian Year 1975; numerous articles in Ecumenical Review, International Review of Mission, Student World. *Leisure interests:* hiking and geology. *Address:* 150 route de Ferney, Geneva; 1 avenue François-Besson, Meyrin, Geneva, Switzerland. *Telephone:* 33-34-00 (Office); 98-20-26 (Home).

POTTER, Major-Gen. William Everett, B.S.; American army officer (retd.) and business executive; b. 17 July 1905, Oshkosh; s. of William B. and Arlie Belle (Coulter) Potter; m. Ruth Elizabeth Turner 1936; two d.; ed. West Point, M.I.T., command and Gen. Staff School, and Nat. War Coll.; joined Corps of Engineers 1928; with U.S. Army in Europe in Second World War as chief of Troops section, exec. of Propaganda and Psychological Warfare Div., Chief of Planning Branch, G-4 Section, Chief of Plans and Operations Branch, G-4 Section; Asst. Chief of Engineers for Civil Works, Wash. 1949-51; Nat. War Coll. 1951; Div. Engineer, Missouri River Div. 1952-56; Gov. Canal Zone and ex officio Pres. Panama Canal Co. 1956-60; Exec. Vice-Pres. New York World's Fair 1964-65 Corpn. 1960-65; Senior Vice-Pres. Walt Disney World Co., EPCOT Planning until 1973, Consultant 1973-. *Leisure interest:* golf. *Address:* 931 Ventura Avenue, Orlando, Fla. 32804, U.S.A.

POTTLE, Frederick Albert, M.A., PH.D.; American university professor; b. 3 Aug. 1897, Lovell, Maine; s. of Fred Leroy Pottle and Annette (Wardwell) Kemp; m. Marion Isabel Starbird 1920; two s. (one deceased) one d. (deceased); ed. Colby Coll. and Yale Univ.; served in American Expeditionary Force First World War 1918-19; Asst. Prof. of English, Univ. of New Hampshire 1921-23; Instructor in English, Yale Univ. 1925-26, Assistant Professor 1926-30, Professor 1930-66, Sterling Professor of English 1944-66, Professor Emeritus 1966-; Fellow Davenport Coll., Yale Univ., American Acad. of Arts and Sciences, American Philosophical Soc., Provinciaal Utrechtsch Genootschap van Kunsten en Wetenschappen; Editor The Private Papers of James Boswell 1930-37; Chair. Editorial Cttee. Yale Editions of the Private Papers of James Boswell 1949-; Trustee Colby Coll. 1932-59, 1966-78, Hon. Life Trustee 1978-; Trustee Gen. Theological Seminary 1947-68; Messenger Lecturer Cornell Univ. 1941; Guggenheim Fellow 1945-46, 1952-53; Fellow Int. Inst. Arts and Letters; Chancellor, Acad. of American Poets 1950-72; Hon. Litt.D. (Colby Coll.) 1941, (Rutgers Univ.) 1951, LL.D. (Glasgow Univ.) 1936, Hon. L.H.D. (Northwestern Univ.) 1967; Wilbur Lucius Cross Medal (Yale Graduate School Asscn.) 1967, William Clyde Devane Medal (Yale Coll.) 1969, John F. Lewis Prize, American Philosophical Soc. 1975. *Publications:* The Literary Career of James Boswell 1929, Stretchers, the Story of a Hospital on the Western Front 1929, Vols. 7-18 of The Private Papers of James Boswell 1930-34, Boswell's Journal of a Tour to the Hebrides (with C. H. Bennett) 1936, 1962, The Idiom of Poetry 1941, revised and enlarged 1946; Boswell's London Journal, 1762-63 1950, Boswell in Holland, 1763-64 1952, Boswell on the Grand Tour: Germany and Switzerland, 1764 1953, Boswell on the Grand Tour: Italy, Corsica and France 1765-66 (with Frank Brady) 1955, Boswell in Search of a Wife 1766-69 (with Frank Brady) 1956, Boswell for the Defence, 1769-74 (with W. K. Wimsatt) 1959, Boswell, the Ominous Years 1774-76 (with Charles Ryskamp) 1963, James Boswell, The Earlier Years, 1740-69 1966, Boswell in Extremes 1766-78 (with C. McC. Weis) 1970, Boswell, Laird of Auchinlock, 1778-1782 (with Joseph W. Reed) 1977. *Leisure interest:* gardening. *Address:* Box 1504-A Yale Station, New Haven, Conn. 06520; and 35 Edgehill Road, New Haven, Conn. 06511, U.S.A. *Telephone:* 436-2207 (Office); 624-8567 (Home).

POUJADE, Pierre; French newspaper executive; b. 1 Dec. 1920, St. Céré; m. 1944; three s. two d.; served in R.A.F., Second World War; after 1945 became publisher and bookseller, also active in politics; mem. St. Céré Municipal Council 1951; Founder Pres. Union de Défense de Commerçants et Artisans; Founder, Union et Fraternité Française; Founder Dir. Union et def'aaense (daily), Fraternité Française (weekly); Pres. Confédération Nat. des Travailleurs Indépendants 1970-; Pres. Caisse Nat. d'Assurance Maladie Obligatoire 1971-; creator of "La Vallée Heureuse" (gastronomic and tourist centre), Villefranche de Rowergue; Founder and Pres. Centre de Formation Avicole, and Ferme Pieste, Château de Gouzou. *Leisure interest:* sport, particularly football and rugby. *Address:* Château de Gouzou, 12-Sainte-Croix; "Vallée Heureuse", 12-Labastide-Leveque, France. *Telephone:* Sainte-Croix 3; Labastide-Leveque 5.

POUJADE, Robert; French teacher and politician; b. 6 May 1928, Moulins (Allier); s. of Henri Poujade and Edmée (née Rival); m. Marie-Thérèse Monier 1953; one s.; ed. Ecole normale supérieure; Teacher of literature, Dijon 1954; Dept. Sec. of Fed. of Union of Democrats for Fifth Republic (U.N.R.) for Côte-d'Or 1958, mem. Cen. Cttee. and Exec. Bureau 1960, Sec.-Gen. 1968; Technical Adviser to M. Maziol (Minister of Construction) Jan.-Feb. 1963; mem. Conseil Econ. et Social 1964-67; mem. Comm. for Econ. Devt. of Bourgogne Region 1965-; Deputy for Côte-d'Or 1967-; Sec.-Gen. UDR 1968-70; Minister for Protection of the Environment 1970-74; Insp. Gen Public Instruction 1974-; Major of Dijon 1971-; Chevalier de l'Ordre nationale du Mérite; Chevalier des Palmes académiques; Commdr. des Arts et des Lettres; Rassemblement pour la République. *Publication:* Le Ministère de l'Impossible 1975. *Address:* 10 boulevard Spuller, Dijon 21000, France.

POUKKA, (Kalle) Pentti, M.A.; Finnish newspaper editor; b. 13 Sept. 1919, Tampere; s. of Prof. Kalle Aukusti Poukka and Ina Irene Vihuri; m. Ejna Margarethe Jozua 1946; three s.; ed. Univ.

of Helsinki. Publications Relations Officer Yhtyneet Paperitehtaat 1949-52; Research Worker, Taloudellinen Tutkimuskeskus; mem. Helsinki City Council 1965-, Chair. 1973-; Pres. Finnish Port Assn. 1968-74; Editor-in-Chief Talouselämä 1954-55; Leader-writer and Economic Editor Uusi Suomi 1955-57; Editor-in-Chief Kauppalehti 1957-63, Uusi Suomi 1968. *Publications:* Teollisuuden rahoitus vv 1947-1952 (Financing Industry 1947-1952), Huomispäivän suomalainen (The Finn of Tomorrow), Porvarin Päiväkirja (Diary of a Bourgeois) 1969, Kapina Katsomossa (Revolt of the Audience) 1970, Purkkiin pantu ihminen (Canned Human) 1972, Tuntematon Sosialismi (Unknown Socialism) 1975. *Address:* Armas Lindgrenintie 11, 00570 Helsinki 1957, Finland. *Telephone:* 688949 (Home).

POULLAIN, Ludwig; German banker; b. 23 Dec. 1919. Chair. Board of Man. Dirs., Westdeutsche Landesbank Girozentrale -Dec. 1977; Pres. Deutscher Sparkassenund Giroverband e.V., Bonn –1972; fmr. Pres. Supervisory Board Preussag AG; mem. Supervisory Board, Deutsche Fina G.m.b.H., Fried. Krupp G.m.b.H., Hannen Brauerei G.m.b.H., Mannesmann A.G., Ruhrkohle A.G., Stahl- und Röhrenwerke Reisholz G.m.b.H., Volkswagenwerk A.G.; mem. Admin. Board, Cie. de Saint-Gobain-Pont-à-Mousson S.A., Kreditanstalt für Wiederaufbau, Frankfurt/M; mem. Consultative Cttee., Petrofina S.A.; Dr. rer.pol. h.c. *Address:* Westdeutsche Landesbank Girozentrale, 4000 Düsseldorf 1, Friedrichstrasse 56, Federal Republic of Germany. *Telephone:* (0211) 8261.

POUND, Robert Vivian, B.A., M.A.(HON.); American physicist; b. 16 May 1919, Ridgeway, Ont., Canada; s. of V. E. Pound and Gertrude C. Prout; m. Betty Yde Andersen 1941; one s.; ed. Univ. of Buffalo and Harvard Univ.; Research Physicist, Submarine Signal Co., Boston, Mass. 1941-42; Staff mem. Radiation Laboratory, Mass. Inst. of Technology 1942-46; Jr. Fellow, Soc. of Fellows, Harvard Univ. 1945-48, Asst. Prof. 1948-50, Assoc. Prof. 1950-56, Prof. 1956-68, Mallinckrodt Prof. of Physics 1968-, Chair. Dept. of Physics 1968-72, Dir. Physics Labs. 1972-; Visiting Prof. Coll. de France 1973; mem. Nat. Acad. Sciences; Corresp. mem. Académie des Sciences; Fellow, American Acad. of Sciences; Fulbright Research Scholar, Oxford Univ. 1951; Fulbright Lecturer, Ecole Normale, Paris 1958; Guggenheim Fellow 1957-58, 1972-73; B. J. Thompson Memorial Award, Inst. of Radio Engineers 1948, Eddington Medal, Royal Astronomical Soc. 1965. *Publications:* Microwave Mixers 1948; papers on nuclear magnetism, electric quadrupole interactions, directional correlations of gamma rays, effect of gravity on gamma rays. *Address:* 87 Pinehurst Road, Belmont, Mass. 02178, U.S.A.

POVEDA BURBANO, Vice-Adm. Alfredo; Ecuadorean naval officer and politician; Minister of the Interior 1973-75; C.-in-C. of Navy May 1975-; Chief of Gen. Staff of Armed Forces Sept. 1975-Jan. 1976; Head of Mil. Junta which assumed power Jan. 1976; Pres. Supreme Council of Govt. 1976-79; Medalla de las Américas; Gran Cruz, Orden del Quetzal (Guat.). *Address:* c/o Oficina del Presidente, Quito, Ecuador.

POWELL, Anthony Dymoke, C.B.E.; British writer; b. 21 Dec. 1905, London; s. of Lt.-Col. P. L. W. Powell, C.B.E., D.S.O., and Maud Mary Wells-Dymoke; m. Lady Violet Pakenham 1934; two s.; ed. Eton and Balliol Coll., Oxford; served Second World War in Welch Regiment and Intelligence Corps; mem. U.S. Acad. of Arts and Sciences; fmr. Trustee of Nat. Portrait Gallery; Orders of White Lion (Czechoslovakia), Léopold II (Belgium), Oaken Crown and Croix de Guerre (Luxembourg); James Tait Black Prize (for At Lady Molly's); Hon. D.Litt. (Sussex, Leicester, Kent); Hon. Fellow, Balliol Coll., Oxford 1974; W. H. Smith Award 1974. *Publications:* Afternoon Men 1931 (performed as a play 1963), Venusberg 1932, From a View to a Death 1933, Agents and Patients 1936, What's Become of Waring 1939, John Aubrey and His Friends 1948, Selections from John Aubrey 1949, the Music of Time series: A Question of Upbringing 1951, A Buyer's Market 1952, The Acceptance World 1955, At Lady Molly's 1957, Casanova's Chinese Restaurant 1960, The Kindly Ones 1962, The Valley of Bones 1964, The Soldier's Art 1966, The Military Philosophers 1968, Books Do Furnish a Room 1971, Temporary Kings 1973, Hearing Secret Harmonies 1975, Keep the Ball Rolling (memoir, incl. Infants of the Spring Vol. I 1976, Messengers of Day Vol. II 1978), A Dance to the Music of Time (novel-cycle, omnibus edn.) 1977; Plays: The Garden God, The Rest I'll Whistle 1971. *Address:* The Chantry, near Frome, Somerset, England. *Telephone:* 0373-84-314.

POWELL, Sir (Arnold Joseph) Philip, Kt., O.B.E., R.A., R.I.B.A., A.A.DIPL.(HONS.); British architect; b. 15 March 1921, Bedford; s. of late Canon A. C. Powell and late Mary Winnifred (née Walker); m. Philippa Eccles 1953; one s. one d.; ed. Epsom Coll. and Architectural Assn. School of Architecture; in private practice 1946-, as Powell, Moya and Partners, Architects; won Westminster City Council's Pimlico Housing Competition (Churchill Gardens) 1946, Festival of Britain Vertical Feature (Skylon) Competition 1950; R.I.B.A. Bronze Medals, R.I.B.A. Awards, Housing Medals, Civic Trust Awards, Concrete Soc. Award, Carpenter's Award; mem. Royal Fine Art Comm. *Works include:* Churchill Gardens Flats, Westminster 1948-62; houses and flats at Gospel Oak, London 1954, houses at Chichester 1950, Toy's Hill 1954, Oxshott 1954, Leamington 1956, Baughurst (Hants.) 1954; "Skylon", Festival of Britain 1951; Mayfield School, Putney 1955, Plumstead Manor School, Woolwich 1970; extensions to Brasenose Coll. Oxford 1961 and Corpus Christi Coll. Oxford 1969, picture gallery and undergraduates' rooms, Christ Church, Oxford 1967, new buildings at St. John's Coll. Cambridge 1967, Queens' Coll., Cambridge 1978; Chichester Festival Theatre 1962; Public Swimming Baths, Putney 1967; mental hosp. extensions, Fairmile 1957, Borocourt 1965, hospitals at Swindon, Slough, High Wycombe, Wythenshawe and Woolwich; British Pavilion at Expo 70, Osaka, Japan; Museum of London 1977; Dining rooms at Bath Acad. of Art 1970, Eton Coll. 1974; Wolfson Coll., Oxford 1974. *Address:* Powell, Moya and Partners, Architects, 21 Upper Cheyne Row, London, S.W.3; 16 The Little Boltons, London, S.W.10, England (Home). *Telephone:* 01-373 8620 (Home).

POWELL, Enoch (see Powell, John Enoch).

POWELL, John, M.A., D.PHIL., C.ENG., F.I.E.E., F.R.S.(E); British Physicist and business executive; b. 4 Nov. 1923, Islip; m. Zena Powell 1949; one s. one d.; ed. Bicester County School, No. 1 School of Technical Training, R.A.F. and Queen's Coll., Oxford; Research Fellow, Nat. Research Laboratory, Ottawa 1952-54; Section Leader, Semi-Conductor Research and Devt., Marconi Research Laboratories; joined Texas Instruments (N. Europe) Ltd. 1957, Gen. Man. Technical 1959, Product Group Man. 1960, Asst. Man. Dir. Operations 1962, Man. Dir. Northern Europe 1963, Asst. Vice-Pres. Texas Instruments Inc. 1968; Group Technical Dir. EMI Ltd. 1971, Dir. for Commercial Electronics 1972, Deputy Man. Dir. 1973, Man. Dir. Nov. 1974-, Group Vice Chair. 1978-; Faraday Lecturer 1978-79. *Leisure interests:* swimming, tennis. *Address:* EMI Limited, 20 Manchester Square, London, W1A 1ES, England. *Telephone:* 01-486 4488.

POWELL, Rt. Hon. (John) Enoch, P.C., M.B.E., M.P.; British politician; b. 16 June 1912, Birmingham; s. of Albert Enoch and Ellen Mary (Breese) Powell; m. Margaret Pamela Wilson 1952; two d.; ed. King Edward's School, Birmingham, and Cambridge Univ. Fellow Trinity Coll., Cambridge 1934-38; Prof. of Greek, Univ. of Sydney, N.S.W. 1937-39; army service rising to rank of Brig. 1939-46; Conservative mem. Parl. for Wolverhampton S.W. 1950-74, Ulster Unionist mem. Parl. for Down, South Oct. 1974-; Parl. Sec. Ministry of Housing and Local Govt. 1955-57; Financial Sec. to Treasury 1957-58; Minister of Health 1960-63; Dir. Nat. Discount Co. 1964-68; mem. House of Commons Select Cttee. on Procedure 1976-. *Publications:* The Rendel Harris Papyri 1936, First Poems 1937, A Lexicon to Herodotus 1938, The History of Herodotus 1939, Casting-off, and other poems 1939, Herodotus, Book VIII 1939, Llyfr Blegywryd 1942, Thucydidis Historia 1942, Herodotus (transl.) 1949, One Nation (jointly) 1950, Dancer's End and The Wedding Gift (poems) 1951, The Social Services, Needs and Means 1952, Change is our Ally 1954, Biography of a Nation 1955, Saving in a Free Society 1960, Great Parliamentary Occasions 1960, A Nation Not Afraid 1965, A New Look at Medicine and Politics 1966, The House of Lords in the Middle Ages (with Keith Wallis) 1968, Freedom and Reality 1969, Still to Decide 1972, No Easy Answers 1973, Medicine and Politics: 1975 and After 1976, Wrestling with the Angel 1977, Joseph Chamberlain 1977. *Address:* 33 South Eaton Place, London, S.W.1, England.

POWELL, Lewis Franklin, Jr., LL.M.; American judge; b. 19 Sept. 1907, Suffolk, Va.; m. Josephine Rucker; four c.; ed. Washington and Lee Univ. and Harvard Law School; mem. of law firm, Huntor, Williams, Gay, Powell and Gibson, Richmond, Va. 1937-71; Pres. American Bar Assn. 1964-65, American Coll. of Trial Lawyers 1969-70; Assoc. Justice of the Supreme Court of U.S.A. Dec 1971-; Legion of Merit (Bronze Star), Croix de Guerre avec palmes. *Address:* Supreme Court of the United States, Washington, D.C. 20543; 1238 Rothesay Road, Richmond, Va. 23221, U.S.A. (Home).

POWELL, Sir Philip (*see* Powell, Sir (Arnold Joseph) Philip).

POWELL, Sir Richard Royle, G.C.B., K.B.E., C.M.G., B.A.; British banker, businessman and fmr. civil servant (retired 1968); b. 30 July 1909, Walsall; s. of late Ernest Hartley Powell and late Florence Powell; ed. Cambridge Univ.; served Admiralty 1931-46; Under-Sec. Ministry of Defence 1946-48; Deputy Sec. Admiralty 1948-50; Deputy Sec. Ministry of Defence 1950-56, Perm. Sec. 1956-59;

Perm. Sec. Board of Trade 1960-68; Deputy Chair. Permanent Cttee. on Invisible Exports 1968-76; Chair. Alusuisse (U.K.) Ltd. 1969-, Aeroprint Ltd. 1969-, Sandoz Products 1977-; Dir. Hill Samuel Group Ltd., The Gen. Electric Co. Ltd., Wilkinson Match Ltd., National Nuclear Corpn. Ltd., BPB Industries Ltd., Clerical Medical and General Life Assurance Soc; Pres. Inst. for Fiscal Studies 1970-, Whessoe Ltd. 1972-. *Leisure interests:* music, opera, theatre. *Address:* 56 Montagu Square, London, W.1, England. *Telephone:* 01-262 0911.

POWIS, Alfred, B.COM.; Canadian business executive; b. 16 Sept. 1930, Montreal, P.Q.; ed. Westmount High School and McGill Univ.; employee, Investment Dept., Sun Life Assurance Co. 1951-55; Internal Auditor, Noranda Mines Ltd. 1955, Asst. Treas. 1958, Asst. to Pres. 1962, Exec. Asst. 1963, Dir. 1964, Vice-Pres. 1966, Exec. Vice-Pres. 1967, Pres. and Chief Exec. Officer 1968-77, Chair and Pres. 1977-, also Dir., Noranda Aluminium Inc.; Vice-Pres. and Dir., Northwood Pulp Ltd., Brunswick Mining and Smelting Corpn. Ltd., Canadian Copper Refiners Ltd., Dir. Canada Wire & Cable Co. Ltd., Leaworth Holdings Ltd., Wire Rope Industries Ltd., Noranda Metal Industries, Noranda Manufacturing Ltd., Noranda Sales Corpn. Ltd., Noranda Exploration Co. Ltd., Noranda Australia Ltd., St. Lawrence Fertilizers Ltd., Quebec Smelters Ltd., Waite Amulet Mines Ltd., Empresa Fluorspar Mines Ltd., Kerr Addison Mines Ltd., Canadian Imperial Bank of Commerce, Gulf Canada Ltd., Sun Life Assurance Co., British Columbia Forest Products Ltd., Canadian Electrolytic Zinc Ltd., Gen. Smelting Co. of Canada Ltd., Northwood Mills Ltd., Trustee, Toronto Gen. Hosp.; Vice Chair. Conf. Board in Canada. *Address:* Noranda Mines Ltd., P.O. Box 45, Commerce Court West, Toronto, Ont., M5L 1B6, Canada. *Telephone:* 416-867-7111.

POWLES, Sir Guy Richardson, K.B.E., C.M.G., E.D., LL.D.; New Zealand public servant; b. 5 April 1905, Otaki; s. of Col. C. G. Powles, C.M.G., D.S.O.; m. Eileen Nicholls 1931; two s.; ed. Wellington Coll., Victoria Univ. Coll.; Barrister, Supreme Court of New Zealand 1927-40; war service, to rank of Col. 1940-46; Counsellor, Washington; High Commr., Western Samoa 1949-60; High Commr. India 1960-62, Ceylon 1961-62, Ambassador to Nepal 1961-62; Ombudsman, New Zealand 1962-75, Chief Ombudsman 1975-77; Resident Consultant, Int. Ombudsman Inst., Edmonton, Canada 1978; Race Relations Conciliator 1971-73; Pres. New Zealand Inst. of Int. Affairs 1965-71; Commr. Churches Comm. on Int. Affairs, Int. Comm. of Jurists, Geneva; Patron New Zealand-India Soc., Amnesty N.Z., Environmental Defence Soc., New Zealand Foundation for Mental Health, New Zealand Foundation for Peace Studies. *Leisure interests:* reading and gardening. *Address:* 34A Wesley Road, Wellington C.1, New Zealand. *Telephone:* 738-068.

POZSGAY, Imre, CAND.SC.; Hungarian politician; b. 1933, Kóny; ed. Lenin Inst.; joined Hungarian Working People's Party 1950; evening lecturer in Marxism-Leninism for Bács County Cttee. of Hungarian Socialist Workers' Party (HSWP) 1957-65; Leader, later Ideological Sec., Agitation and Propaganda Dept. of Bács County Cttee., HSWP 1965-70; Section Leader, Agitation and Propaganda Dept. of HSWP Cen. Cttee. 1970; Deputy Chief Editor Társadalmi Szemle (Social Review) journal of HSWP; Deputy Minister of Culture 1975-76, Minister July 1976-. *Address:* Ministry of Culture, Szalay-utca 10-14, Budapest V, Hungary. *Telephone:* 118-600.

PRABHJOT KAUR; Indian poet and politician; b. 6 July 1927, Langarlal; d. of Nidhan Singh; m. Brig. Narenderpal Singh 1948; two d.; ed. Khalsa Coll. for Women, Lahore and Punjab Univ.; first collected poems published 1943 (aged sixteen); represented India at numerous int. literary confs. 1956-; mem. Legislative Council, Punjab 1966-; Editor Vikendrit; mem. Central Comm. of UNESCO, Nat. Writers Cttee. of India; received honours of Sahitya Shiromani 1964 and Padma Shri 1967; title of Rajya Kavi (Poet Laureate) by Punjab Govt. 1964, the Sahitya Akademi Award 1965, Golden Laurel Leaves, United Poets Int., Philippines 1967, Grand Prix de la Rose de la France 1968, Most Distinguished Order of Poetry, World Poetry Soc. Intercontinental, U.S.A. 1974; Woman of the Year, U.P.L.I., Philippines 1975. *Publications:* 35 books, including: Poems: Supne Sadhran 1949, Do Rang 1951, Pankhru 1956, Lala (in Persian) 1958, Bankapasi 1958, Pabbi 1962, Khali 1967, Waddarshi Sheesha 1972, Madhiantar 1974, Chandra Yug 1978; Short Stories: Kinke 1952, Aman de Na 1974. *Leisure interests:* reading, writing. *Address:* D-203, Defence Colony, New Delhi 110024, India. *Telephone:* 626045.

PRADA, Michel André Jean Edmond; French civil servant and politician; b. 2 April 1940, Bordeaux; s. of Robert and Suzanne (Bouffard) Prada; m. Annick Saudubray 1963; one s. three d.; ed. Lycée Montesquieu Bordeaux, Inst. d'Études Politiques de Bordeaux, Ecole Nat. d'Admin.; Inspecteur des Finances with Ministry of Econ. and Finance 1966; Chargé de Mission, Inspection Générale des Finances 1969; Chargé de Mission, Direction de la Comptabilité Publique 1970, Asst. Director 1974, Head of Service 1977, Dir. de la Comptabilité Publique 1978-; Minister for the Budget 1978-; Chevalier, Ordre nat. du Mérite. *Address:* Ministère du Budget, 93 rue de Rivoli, 75001 Paris; 2 rue Cart, 94160 Saint-Maudé, France (Home). *Telephone:* 260.33.00 (Office); 374.95.33 (Home).

PRADER, Georg, LL.D.; Austrian politician; b. 15 June 1917, St. Pölten; s. of Prof. Georg Prader and Josefine Prader; m. Hertha Prader (née Hollaschke) 1943; three s. one d.; ed. Seitenstetten Hochschule and Vienna Univ.; Army Service, Second World War; with Provincial Govt. of Lower Austria 1946-49; with Lower Austrian Employees Section, Fed. of Austrian Workers and Employees (ÖAAB) 1949, mem. Governing Body ÖAAB 1953-, Chair. Lower Austrian Employees Section 1956-, Deputy Provincial Chair. Lower Austrian Section 1956-; mem. Bundesrat 1954-59, nationalrat 1959–; Minister of Defence 1964-70; People's Party. *Address:* Lainzer Strasse 4, 1130 Vienna, Austria. *Telephone:* 43-37-10.

PRADO VALLEJO, Julio; Ecuadorean lawyer, diplomatist and politician; b. 3 July 1924; ed. Univ. Central del Ecuador; Chargé d'Affaires, Brazil 1953-54, U.S.A. 1954-57; Pres. Inter-American Comm. for Econ. Co-operation 1956; Legal Adviser on Int. Agreements at Ministry of Finance 1958; Prof. at Univ. Central del Ecuador 1958-; Minister of Foreign Affairs 1967-68; Gran Oficial Cruzeiro do Sul (Brazil); Gran Cruz Al Mérito (Ecuador). *Publications:* Réplica a la peruanidad de Túmbez, Jáen y Mainas 1945, Demarcación de Fronteras – Ejecución del Protocolo de Rio de Janeiro de Enero 29 de 1942 1950. *Address:* Tamayo 1313 y Colón, Quito, Ecuador. *Telephone:* 238-375.

PRAGER, William, ENG.D.; American professor of engineering and applied mathematics; b. 23 May 1903, Karlsruhe, Germany; s. of Wilhelm and Helen (Kimmel) Prager; m. G. Ann Heyer 1925; one s.; ed. Technische Hochschule, Darmstadt; Acting Dir., Inst. of Applied Mechanics, Göttingen 1929-33; Prof. of Technical Mechanics, Technische Hochschule, Karlsruhe 1933; Prof. of Theoretical Mechanics, Univ. of Istanbul 1933-41; Prof. of Applied Mechanics, Brown Univ. 1941-65, Univ. of Calif. (San Diego) 1965-68; Prof. of Engineering and Applied Mathematics, Brown Univ. 1968-73, Emer. Prof. 1973-; Technical Editor Journal of Applied Mechanics 1969-72; Editor Computer Methods in Applied Mechanics and Engineering 1972-; mem. Nat. Acad. of Sciences, Nat. Acad. of Engineering, Polish Acad. of Sciences; Corresp. mem. Acad. des Sciences, Paris; numerous hon. degrees; Theodore von Kármán Medal, American Soc. of Civil Engineers 1960; Panetti Prize, Acad. of Sciences, Turin 1964; Timoshenko Medal, American Soc. of Mechanical Engineers 1966. *Publications:* The Theory of Perfectly Plastic Solids (with P. G. Hodge, Jr.) 1951, An Introduction to Plasticity 1959, Introduction to Mechanics of Continua 1961, Introduction to Basic Fortran Programming and Numerical Methods 1971, Introduction to APL 1971. *Address:* 7451 Savognin, Switzerland.

PRAIN, Sir Ronald Lindsay, Kt., O.B.E.; British company director; b. 3 Sept. 1907, Iquiqui, Chile; s. of Arthur Lindsay Prain and Amy (née Watson) Prain; m. Esther Pansy Brownrigg 1938; two s.; ed. Cheltenham Coll.; Controller Diamond Die and Tool Control (Ministry of Supply) 1940-45, Quartz Crystal Control 1943-45; Chief Exec. Roan Selection Trust (R.S.T.) Int. Group of Copper Mining Cos. 1943-68, Chair. 1950-72; Chair. Botswana R.S.T. Group 1959-72; Chair. Merchant Bank of Cen. Africa Ltd. 1955-66, Merchant Bank (Zambia) Ltd. 1966-72; Dir. Pan Holding S.A., Metal Market and Exchange Ltd. 1943-65, Selection Trust Ltd. 1944-78, Int. Nickel Co. of Canada 1951-72, Wankie Colliery Ltd. 1953-63, Barclays Bank Int. Ltd. 1971-77, Monks Investment Trust Ltd., Foseco Minsep Ltd., and other cos.; Pres. British Overseas Mining Assn. 1952, Inst. of Metals 1960-61, Cheltenham Coll. Council; Hon. Pres. Copper Devt. Assn.; Chair. Agricultural Research Council of Rhodesia and Nyasaland 1959-63; mem. of Council, Commonwealth Council of Mining and Metallurgical Insts. (Chair. 1961-74), Overseas Devt. Inst.; Hon. mem. Metals Soc., BNF Metals Technology Centre; Hon. Fellow, Inst. of Mining and Metallurgy, Metals Soc.; Trustee Inst. for Archeo-Metallurgical Studies; Gold Medal (Inst. of Mining and Metallurgy) 1968; Inst. of Metals Platininum Medal 1969. *Publications:* Selected Papers (4 vols.), Copper: The Anatomy of an Industry 1975. *Leisure interests:* cricket, real tennis, travel. *Address:* Waverley, Granville Road, St. George's Hill, Weybridge, Surrey, KT13 0QJ; 43 Cadogan Square, London, SW1X 0HX, England. *Telephone:* Weybridge 42776; 01-235 4900.

PRAKASA, Sri, B.A., LL.B., BAR.-AT-LAW; Indian politician; b. 3 Aug. 1890; s. of Dr. Bhagauandas and Shrimati Chameli Devi; m.

Shrimati Anasuya Devi 1908 (died 1926); two s. two d.; ed. Allahabad and Cambridge Univs.; connected with Leader, Allahabad 1917-18, Independent, Allahabad 1919, Aj, Banaras 1920-43, National Herald, Lucknow 1938-48, Sansar, Banaras 1943-49; mem. A.I.C.C. 1918-45; founder mem. Kashi Vidyapith 1921, Chancellor 1969; mem. Banaras Municipal Board 1921-25; Gen. Sec. United Provinces Congress Cttee. 1928-34, and Indian Nat. Congress 1929-31; Pres. U.P. Political Conf. 1934 and Pres. United Provinces Congress Cttee. 1934-35; M.L.A. Central 1934 and 1945; Chair. Reception Cttee. Indian Nat. Congress 1936; imprisoned for Congress activities 1930, 1932, 1941 and 1942; mem. Constituent Assembly for U.P. 1946; High Commr. for India in Pakistan 1947-49; Gov. of Assam 1949-50; Federal Minister of Commerce 1950-51, for Natural Resources and Scientific Research 1951-52; Gov. of Madras 1952-56; Gov. of Bombay 1956-60, of Maharashtra 1960-62; mem. of Lok Sabha 1950-52 (resgnd.); Padma Vibushan 1957. *Publications:* Annie Besant, As Woman and [illegible] Leader, Pakistan: Birth and Early Days (in English and Hindi), Grihast Gita, Sphut Vichar, Hamari antarik Gatha, Nagarik Shastra (in Hindi), Dr. Bhagandas as Philosopher and Man (in English and Hindi), Education in [illegible] Democracy, State Governors in India. *Leisure interests:* reading and writing.

PRAMOJ, Mom Rachawongse Kukrit; Thai politician; b. 20 April 1911; s. of Prince Khamrob and Mom Daeng Pramoj; brother of M. R. Seni Pramoj (*q.v.*); ed. Suan Kularb Coll., Trent Coll., U.K., Queen's Coll., Oxford; with Revenue Dept., Ministry of Finance; Siam Commercial Bank; Head of Gov.'s Office, Bank of Thailand, later Head of Issue Dept.; mem. Parl. 1946-76, Nat. Legislative Assembly 1977-; Deputy Minister of Finance 1947-48; Deputy Minister of Commerce; founded Siam Rath newspaper 1950; fmr. Leader of Social Action Party; Speaker Nat. Assembly 1973-74; Prime Minister 1975-76, also Minister of the Interior Jan.-April 1976; mem. Cttee. to draft new constitution 1977-78; Dir. of Thai Studies, Thammasat Univ.; Pres. Exec. Cttee., Foundation for the Assistance of Needy Schoolchildren; appeared in film The Ugly American 1963. *Address:* National Legislative Assembly, Bangkok, Thailand.

PRAMOJ, Mom Rachawongse Seni, B.A.; Thai lawyer and politician; b. 26 May 1905, Ngor Swaga; s. of Prince Khamrob; brother of M. R. Kukrit Pramoj (*q.v.*); m. Usna Saligupta 1931; two s. one d.; ed. Trent Coll., U.K., Worcester Coll., Oxford; Judge, Appeal Court; Minister, Thai Embassy, Washington, D.C., Prime Minister 1945-46; law practice 1946-; Leader Democratic Party 1968-76; mem. Parl. 1969-76; Prime Minister Feb.-March 1975, April-Oct. 1976, also Minister of the Interior April-Oct. 1976; mem. Cttee. to draft new constitution 1977-78. *Publications:* several law books and English translations of Thai poetry. *Leisure interests:* golf, music, painting, poetry. *Address:* 219 Egamai Road, Bangkok, Thailand. *Telephone:* 3911632.

PRAPAS CHARUSATHIARA, Field-Marshal (see Charusathiara, Prapas).

PRASAD, Baleshwar, I.A.S., M.A.; Indian civil servant; b. 1 Jan. 1914, Chapra, Bihar; s. of Maheshwar Prasad; m. Uma Prasad; ed. Patna Univ.; Journalist 1942-46; Asst. Magistrate 1950; IAS Officer, Bihar 1950-56; Political Adviser to Indian del. to Viet-Nam Int. Supervision and Control Comm. 1956-59; Dewan (Prime Minister) of Sikkim 1959-63; Chief Commr., Manipur 1963-69, Lt.-Gov. 1969-70; Amb. to Burma 1970-71; Lt.-Gov. Tripura 1971-72, Delhi 1972-74; Vice-Chair. Rajendra Bhawan Trust; Chair. Uma Baleshwar Charitable Trust 1974-. *Leisure interests:* golf, bridge and writing. *Address:* Avkash Chhajubagh Patna, Bihar, India.

PRATE, Alain; French civil servant and international official; b. 5 June 1928, Lille; m. Marie-José Alexis 1956; two s. one d.; ed. Ecole Nationale d'Administration; Asst. Insp. of Finances 1953-55, Insp. 1955-58; Del. to conf. on EEC 1957; Sec. of Monetary Cttee., European Econ. Community (EEC) 1958-61; Dir. for Econ. Structure and Devt., Directorate-Gen. for Econ. and Financial Affairs, EEC 1961-65; Dir.-Gen. of Internal Market, EEC 1965; Technical counsellor for economic and financial questions in the Secretariat of the Presidency of the Repub. 1967-69; Head of Service, Inspectorate-General of Finance 1969-71, Dir.-Gen. Customs and Duties 1971-75; Admin. Banque Française du Commerce Extéreur, Cie. Française d'Assurance pour le Commerce Extérieur, Cie. Générale des Matières Nucléaires; Dir. Crédit National 1975; mem. Conseil Supérieur du Pétrole, Comm. de la Concurrence; Chevalier de la Légion d'honneur, Officier de l'Order nationale du Mérite. *Publication:* Les batailles économiques du Général de Gaulle 1978. *Address:* 4 Square Thiers, Paris 75116, France.

PRATOLINI, Vasco; Italian writer; b. 19 Oct. 1913. Lugano prize 1947; Viareggio prize 1955; Feltrinelli prize 1957; Marzotto prize 1963. *Publications:* Novels and stories: Via de' Magazzini 1942, Cronaca familiare 1947, Cronache di poveri amanti 1947, Le ragazze di San Frediano 1950, Metello 1955, Lo scialo 1960, La constanza della ragione 1963, Allegoria [illegible] Derisione 1966. *Address:* Via Tolmino 12, Rome, Italy. *Telephone:* 858435.

PRATT, Edmund T., B.S., M.B.A.; American chemical industry executive; b. 22 Feb. 1927, Savannah, Ga.; s. of Edmund T. Pratt, Snr. and Rose Miller; m. Jeanette Carneale Pratt; two s.; ed. Duke Univ., Wharton School of Commerce and Finance, Univ. of Pennsylvania; served with U.S. Navy, World War II; intelligence officer 1952-54; Controller, IBM World Trade Corpn. 1958-62; Asst. Sec. U.S. Army 1962-64; joined Pfizer Inc. as controller, Vice-Pres. Operations Pfizer Int. 1967-69, Chair. and Pres. 1969-71; Dir. and mem. exec. cttee. Pfizer Inc. 1969, Exec. Vice-Pres. 1970-71, Pres. 1971-72, Chair. and Chief Exec. Officer Dec. 1972-; Chair. Emergency Cttee. for American Trade; Dir. Chase Manhattan Corpn., Int. Paper Company, General Motors Corpn. Int. Exec. Service Corps; Trustee Cttee. for Econ. Devt., U.S. Council of the Int. Chamber of Commerce; mem. Board Econ. Devt. Council of N.Y.C., N.Y. Chamber of Commerce and Industry, Board of Trustees of Duke Univ., Board of Overseers of Wharton School of Commerce and Finance. *Address:* Pfizer Inc., 235 East 42nd Street, New York, 10017 N.Y., U.S.A. *Telephone:* 212-573-2323.

PRATT, Solomon Althanasius James, B.C.L., B.LIT., LL.B., M.A., M.SC., DIP.AGR.ECONS.; Sierra Leonean politician; b. 25 Dec. 1921; s. of George Henry Pratt and Christiana Omotayo; m. Victoria Elizabeth Pratt 1944; one s. five d.; ed. Fourah Bay Coll., St. Catherine's, Oxford Univ., Univ. of London and Inner Temple; Economist, Sierra Leone Govt. 1949-52; Int. Civil Servant, Int. Labour Office, Geneva 1952-58; Chair. Riot Damages Comm. 1958-61; City Solicitor, Municipality of Freetown 1958-64; Gen. Man. Sierra Leone Railways and Econ. Advisor to the Govt. 1964-66; arrested and detained during Mil. Rule 1967; Parliamentary Rep. for Mountain Rural District 1968-; Min. of Econ. Development and Planning 1968-69; envoy of the Prime Min. to various countries and confs. 1969-71; Min. of State and Attorney-Gen. 1971, Minister of External Affairs 1971-73, of Devt. and Econ. Planning 1973-75; Attorney-General 1975-77; Minister of Econ. Planning 1977-78, of the Interior Aug. 1978-; Pres. Sierra Leone UN Assen.; Fellow, Victorian Coll. of Music; Insignia of Grand Commander of the Order of the Rokel. *Leisure interest:* church music. *Address:* Ministry of the Interior, Freetown, Sierra Leone.

PRAWER, Siegbert Salomon, M.A., D.LITT., PH.D.; British university teacher and author; b. 15 Feb. 1925; s. of Marcus and Eleonora Prawer; brother of Mrs. Ruth Prawer Jhabvala (*q.v.*); m. Helga Alice Schaefer 1949; one s. two d. (and one s. deceased); ed. King Henry VIII School, Coventry, Jesus Coll., Christ's Coll., Cambridge; Adelaide Stoll Resident Student, Christ's Coll., Cambridge 1947-48; Asst. Lecturer, then Lecturer, then Sr. Lecturer, Univ. of Birmingham 1948-63; Prof. of German, Westfield Coll., London Univ. 1964-69; Taylor Prof. of German Language and Literature, Oxford 1969-; Co-editor, Oxford Germanic Studies 1971-75, Anglica Germanica 1973-; Visiting Prof. City Coll., New York 1956-57, Univ. of Chicago 1963-64, Harvard Univ. 1968, Hamburg Univ. 1969, Univ. of California, Irvine 1975, Otago Univ., N.Z. 1976, Univ. of Pittsburgh 1977; Resident Fellow, Knox Coll., Dunedin, N.Z. 1976; Fellow of Queen's Coll., Oxford 1969-; Hon. Dir. London Univ. Inst. of Germanic Studies 1968-68; Goethe Medal 1973; Isaac Deutscher Memorial Prize 1977. *Publications:* German Lyric Poetry 1952, Mörike und seiner Leser 1960, Heine's Buch der Lieder: A Critical Study 1960, Heine: The Tragic Satirist 1962, The Penguin Book of Lieder 1964, The Uncanny in Literature (inaugural lecture) 1965, Heine's Shakespeare, [illegible] Study in Contexts (inaugural lecture) 1970, Comparative Literary Studies: an Introduction 1973, Karl Marx and World Literature 1976, Caligari's Children: The Film [illegible] Tale of Terror 1978, edited: Essays in German Language, Culture and Society (with R. H. Thomas and L. W. Forster) 1969, The Romantic Period in Germany 1970, Seventeen Modern German Poets 1971; numerous articles on German, English and comparative literature. *Address:* The Queen's College, Oxford, England.

PRAWIRO, Radius, M.A.; Indonesian economist and banker; b. 29 June 1928; ed. Senior High School, Yogjakarta, Nederlandsche Economische Hoogeschool, Rotterdam, Econ. Univ. of Indonesia; Sec. Defence Cttee., Yogjakarta during revolution 1945; with Army High Command, Yogjakarta 1946-47; Angauta Tentara Pelajar (Army) 1948-51; Officer in Govt. Audit Office, Ministry of Finance 1953-65; Vice-Minister, Deputy Supreme Auditor, mem. Supreme Audit Office 1965-66; Gov. Bank Indonesia 1966-73; Chair. Indone[illegible] Assen. of Accountants 1965-; Gov. IMF for Indonesia 1967-72, Alt. Gov. Asian Devt. Bank 1967-72; Minister of Trade 1973-, of Co-operative Affairs 1978-; Chair. Board of Govs. IBRD, IDA, IFC

1971-72; mem. Econ. Council of the Pres. 1968-, Nat. Econ. Stabilization Council 1968-, Gov. Board Christian Univ. of Indonesia, Supervisory Board Trisakti Univ. *Address:* Ministry of Trade, Jakarta; Home: Jalan Imam Bonjol 4, Jakarta, Indonesia.

PRAZ, Mario, K.B.E., DR.JURIS., D.LITT.; Italian university professor; b. [illegible] Sept. 1896, Rome; s. of late Luciano Praz and late Giulia Di Marsciano; m. Vivyan Eyles 1934 (marriage dissolved 1946); one d.; ed. Rome and Florence Univs.; came to England 1923; Senior Lecturer in Italian, Liverpool Univ. 1924-32; Prof. of Italian Studies, Manchester Univ. 1932-34; Prof. of English Language and Literature, Univ. of Rome 1934-66, Prof. Emer. 1966-; mem. Standing Cttee. Int. Conf. of Univ. Profs. of English; Editor English Miscellany (Rome); British Acad. Gold Medallist for Anglo-Italian Studies 1935; mem. Accad. dei Lincei 1952-, American Acad. of Arts and Sciences 1969-; hon. mem. Modern Language Assen. of America 1954; Hon. D.Litt (Cambridge, Sorbonne, Uppsala and Aix-Marseille). *Publications:* Secentismo e marinismo in Inghilterra 1925, Penisola Pentagonale 1928, La carne, la morte e il diavolo nella letteratura romantica (The Romantic Agony) 1930, Studi sul concettismo 1934, Storia della letteratura inglese 1937, Studi [illegible] svaghi inglesi 1937, Studies in 17th-Century Imagery Vol. I 1939, Vol. II 1948, Gusto neoclassico 1940, Machiavelli in Inghilterra ed altri saggi 1942, Fiori freschi 1943, Ricerche anglo-italiane 1944, La filosofia dell' arredamento 1945, Motivi [illegible] figure 1945, Cronache letterarie anglo-sassoni Vols. I, II 1951, Vols. III, IV 1966, La Casa della Fama 1952, Lettrice notturna 1952, La crisi dell'eroe nel rmoanzo vittoriano 1952, Viaggi in Occidente 1955, The Flaming Heart 1958, La Casa della Vita 1958; Bellezza [illegible] bizzarria 1960, I volti del tempo 1964, The House of Life 1964, An Illustrated History of Interior Decoration 1964, Panopticon Romano 1967, On Neoclassicism 1969, Caleidoscopio Shakespeariano 1969, Mnemosyne, the Parallel between Literature and the Visual Arts 1979, Scene di Conversazione 1970, Conversation Pieces 1971, Il Patto col serpente 1972, Il Giardino dei sensi—Studi sul manierismo e il barocco 1975, Panoplican Romano II 1978; translations from Shakespeare, Jane Austen, Lamb, Pater, G. Moore, XIXth-Century Poets; Editor [illegible] Italian trans. of Shakespeare's plays, vol. of trans. from Elizabethan dramas, etc. *Leisure interests:* collecting furniture, paintings and objects of the Empire period, travelling. *Address:* Via Zanardelli 1, 00186 Rome, Italy. *Telephone:* 657759.

PREBISCH, Raúl; Argentine economist; b. 17 April 1901; ed. Univ. de Buenos Aires; Prof. of Political Economy, Univ. de Buenos Aires 1925-48 (retd.), Hon. Prof. 1955-; Deputy Dir., Argentinian Dept. of Statistics 1925-27; Dir. of Economic Research, Banco Nacional de Argentina 1927-30; Under-Sec. for Finance 1930-32; Adviser to Ministries of Finance and Agriculture 1933-35; Organizer and first Dir.-Gen. Banco Central de la República Argentina 1935-43; Exec. Sec. UN Economic Comm. for Latin America 1948-62; Dir.-Gen. of Latin American Inst. for Econ. and Social Planning 1962-64, 1969; Sec.-Gen. UN Conf. on Trade and Development, Geneva 1964-69; Adviser to Sec.-Gen. of UN on devt. problems; Under-Sec.-Gen. of UN Emergency Operation; Hon. mem. Faculty of Econs., Univ. de Chile 1956; Dr. h.c. (Columbia, Chandigarh, Los Andes (Colombia), Montevideo, Uruguay Univs.). *Address:* United Nations Secretariat, New York, N.Y. 10017, U.S.A.

PRELOG, Vladimir, DR. ING.; Swiss chemist; b. 23 July 1906, Sarajevo, Yugoslavia; s. of Milan and Maria (Cettolo) Prelog; m. Kamila Vetek 1933; one s.; ed. Inst. of Technology and School of Chemistry, Prague; Chemist, G. J. Driza Laboratories, Prague 1929-35; Lecturer (Dozent), Univ. of Zagreb 1935-40, Assoc. Prof. 1940-41; Privatdozent Eidgenössische Technische Hochschule 1942, Assoc. Prof. 1947-50, Prof. of Organic Chemistry 1950-76, Head of Laboratory of Organic Chemistry 1957-66; mem. Board CIBA-GEIGY Ltd., Basel; Foreign [illegible] Royal Soc. (U.K.), Acad. of Sciences of U.S.S.R., Nat. Acad. of Sciences, U.S.A., American Acad. of Arts and Sciences, American Philosophical Soc., Academia dei Lincei, Leopoldina, Royal Irish Soc., etc.; Werner Prize, Marcel Benoist Prize, Roger Adams Award, Stas Medal, Medal of Honour, Rice Univ., A. W. Hofmann Medal, Davy Medal Royal Soc., Nobel Prize 1975, and other prizes; Dr. h.c. (Zagreb, Liverpool, Cambridge, Brussels, Paris and Manchester Univs. and Inst. Quim. Sarriá, Barcelona). *Leisure interests:* swimming, skiing. *Address:* Universitätsstrasse 16, 8092, Zürich (Office); Bellariastrasse 33, 8002 Zürich, Switzerland (Home). *Telephone:* 202 1781.

PREM CHAND, Lieut.-Gen. D.; Indian army officer (retd.) and United Nations official; b. 1916, Muzaffargarh, now West Pakistan; s. of the late Dewan and Mrs. Rhem Chand; ed. Govt. Coll., Lahore and Staff Coll., Quetta; commissioned Indian Army 1937; served in Gen. Staff, Army HQ, New Delhi 1947, later apptd. Mil. Asst. to Chief of Army Staff; commanded Regimental Centre of First Gurkha Rifles; Instructor, Defence Services Staff Coll., Wellington; subsequently apptd. Deputy Dir. of Mil. Training, Dir. of Personnel Services, Dir. of Mil. Intelligence, New Delhi; Chief of Staff, HQ Western Command, Simla 1961, Commanded Brigade and Div. in Western Command; Gen.-Officer, Katanga Area, UN Operation in the Congo 1962-63; Commanded Div. in Eastern Command, Chief of Staff, HQ Eastern Command, Calcutta; Dir. Gen. Nat. Cadet Corps; retd. 1967 then held admin. post in industrial concern; Commdr. UN Force in Cyprus (UNFICYP) 1969-76; UN Sec. Gen.'s. Rep. for Rhodesia 1977; rank of Lieut.-Gen. 1974; Param Vishishc Seva Medal. *Leisure interests:* sport, reading, music and trekking. *Address:* c/o UN Information Centre, 55 Lodi Estate, New Delhi, India.

PREMADASA, Ranasinghe; Ceylonese politician and local government official; b. 23 June 1924; m. Hema Wickrematunga 1964; one s. one d.; ed. Lorenz Coll., St. Joseph Coll., Colombo; began political career as member of Ceylon Labour Party and elected to Muncipal Council, Colombo 1950, Deputy Mayor 1955; joined United Nat. Party (U.N.P.) 1956; Third Mem. Colombo Cen. Constituency, House of Reps. 1960-65, Second Mem. 1965-70, First Mem. 1970-77; First Mem. Colombo Cen. Constituency, Nat. State Assembly 1977-; Parl. Sec. to Minister of Local Govt. 1965, Chief Whip of Govt. Parl. Group 1965, Parl. Sec. to Minister of Information and Broadcasting, and to Minister of Local Govt. 1966; Minister of Local Govt. 1968-70; Chief Whip of Opposition Parl. Group, House of Reps. (later Nat. State Assembly) 1970-77; Deputy Leader U.N.P. 1976-; Minister of Local Govt., Housing and Construction, and Leader of Nat. State Assembly July 1977-, Prime Minister of Sri Lanka Feb. 1978-; Del. to Buddha Sangayana, Burma 1955, to China and Soviet Union 1959, to Commonwealth Parl. Conf., Canberra, Australia 1970; successful negotiations with Friedrich Ebert Foundation (Fed. Repub. of Germany) to set up Sri Lanka Inst. in Sri Lanka 1965. *Publications:* numerous books in Sinhala. *Leisure interests:* photography, writing. *Address:* Office of the Prime Minister, Colombo, Sri Lanka.

PREMAUER, Werner, DR.JUR.; German company executive; b. 27 July 1912, Berlin; s. of Otto Premauer and Katharina (née Frueh); m. Charlotte Schröder 1940; one s. two d.; ed. Univs. of Würzburg, Innsbruck, Erlangen, Munich; Asst. to Pres., Bayerische Vereinsbank 1947, Branch Man. Nuremburg 1948, Deputy [illegible] Board of Man. 1951, mem. 1953, Pres. 1968, Chair. Board, Bayerische Vereinsbank 1976-; Chair. Nat. Cttee. of ICC 1976-; Chair. and Dir. of numerous Cos.; Grosses Bundesverdienstkreuz, Bayerischer Verdienstorden, Commdr.'s Cross of Royal Swedish Order of Vasa. *Leisure interests:* mountaineering, skiing. *Address:* Bayerischer Vereinsbank, Kardinal-Faulhaber-Strasse 14, 8000 Munich 2, Federal Republic of Germany. *Telephone:* 089-2132-5575.

PREMINGER, Otto Ludwig, D.IUR.; Austrian-born American film and theatre director and producer; b. 5 Dec. 1906; ed. Vienna Univ.; Actor in Max Reinhardt's company 1923; f. Comedie Theatre, Vienna 1926, producer at Schauspielhaus 1927, producer-dir. for Reinhardt's theatre, Josefstadt 1928; dir. Libel, N.Y. 1935, successive Broadway plays produced and directed incl. In Time to Come, Outward Bound, My Dear Children, Margin for Error, The Full Circle 1973; Assoc. Prof. Yale Univ. 1939-41; producer and dir. for 20th Century Fox 1941-51, films incl. Margin for Error and Laura; producer-dir. of The Moon is Blue 1950, Critic's Choice 1960, both on Broadway; ind. film producer-director 1951-, films incl. The Moon is Blue 1951, Carmen Jones 1954, The Man with the Golden Arm 1955, St. Joan 1956, Bonjour Tristesse 1957, Porgy and Bess 1958, Anatomy of [illegible] Murder 1959, Exodus 1960, Advise and Consent 1962, The Cardinal 1963, In Harm's Way 1964, Bunny Lake is Missing 1965, Hurry Sundown 1966, Too Far to Walk 1968, Tell Me that You Love Me, Junie Moon 1970, Such Good Friends 1972, Rosebud 1975. *Publication:* Autobiography 1977. *Address:* 711 Fifth Avenue, New York, N.Y. 10022, U.S.A. *Telephone:* 838-6100.

PRENTICE, Rt. Hon. Reginald Ernest, M.P., J.P.; British politician; b. 16 July 1923, Thornton Heath, Surrey; s. of Ernest George Edward Prentice and Elizabeth Prentice; m. Joan Godwin 1948; one d.; ed. Whitgift School and London School of Econs.; temp. civil servant 1940-42; Royal Artillery 1942-46; student at London School of Econs. 1946-49; [illegible] staff Transport and Gen. Workers Union, Asst. to Legal Sec., in charge of Union's Advice and Service Bureau 1950-57; M.P. for East Ham (North) 1957-74, for Newham North-East 1974-79; Minister of State, Dept. of Educ. and Science Oct. 1964-66; Minister of Public Building and Works 1966-67, of Overseas Devt. 1967-69; Sec. of State for Educ. and Science 1974-75; Minister for Overseas Devt., with Cabinet rank June 1975-Dec. 1976 (resigned); resigned [illegible] TGWU-sponsored M.P. 1976; resigned from Labour Party and joined Conservative Party Oct. 1977; Conservative M.P. for Daventry June 1979-; Minister for the Disabled

June 1979-. *Leisure interests:* walking, swimming and golf. *Address:* House of Commons, London, S.W.1; and 5 Hollingsworth Road, Croydon, Surrey, England. *Telephone:* 01-657 6891 (Home).

PRENTZEL, Felix Alexander, DR. IUR., DIPL.-ING.; German business executive; b. 19 March 1905; ed. Technische Hochschule, Berlin-Charlottenburg, and Univ. of Erlangen; IG-Farbenindustrie A.G., Berlin 1934-47; Fed. Ministry of Commerce 1947-55; mem. Man. Board DEGUSSA (Deutsche Gold-und Silber-Scheideanstalt, formerly Roessler) 1955-59, Chair. of the Man. Board 1959-73; mem. Advisory Board Farbwerke Hoechst A.G., Frankfurt, Metallgesellschaft A.G., Frankfurt, Norddeutsche Affinerie, Hamburg, Frankfurter Versicherungs-A.G., Frankfurt, Didier-Werke A.G., Wiesbaden, NSU Motorenwerke A.G., Neckarsulm, Schilde A.G., Bad Hersfeld. *Address:* Bross Strasse 11-13, 6 Frankfurt/Main, Federal Republic of Germany.

PRESS, Frank, American geophysicist; b. 4 Dec. 1924, Brooklyn, New York; s. of Solomon and Dora (Steinholz) Press; m. Billie Kallick 1946; two c.; ed. Coll. of City of New York and Columbia Univ.; Research Associate, Columbia Univ. 1946-49, Instructor, Geology 1949-51, Asst. Prof. of Geology 1951-52, Assoc. Prof. 1952-55; Prof. Geophysics, Calif. Inst. of Technology 1955-65, Dir. Seismological Laboratory 1957-65; Co-editor Physics and Chemistry of the Earth 1957-; Chair. Dept. of Earth and Planetary Sciences, Mass. Inst. of Technology 1965-77; Dir. Office of Science and Tech. Policy, Exec. Office of Pres., and Science and Tech. Adviser to Pres. 1977-; Consultant to U.S. Navy 1956-57, U.S. Dept. of Defense 1958-62, NASA 1960-62, and 1965-; mem. U.S. del. Nuclear Test Ban Conf. Geneva 1959-61, Moscow 1963; Pres. Science Advisory Comm. 1961-64; Chair. Board of Advisors Nat. Center for Earthquake Research of the U.S.G.S. 1966-; Planetology Subcomm. NASA 1966-; Chair. Earthquake Prediction Panel Office of Science and Technology 1965-; Fellow American Acad. of Arts and Sciences 1966; Fellow Royal Astronomical Soc., mem. Nat. Acad. of Sciences 1958; mem. Nat. Science Board 1970-77; fmr. Pres. American Geophysical Union; Chair. Cttee. on Scholarly Communication with People's Repub. of China 1975-77; mem. U.S.—U.S.S.R. Working Group in Earthquake Prediction 1973; fmr. mem. Exec. Council Nat. Acad. of Sciences; Hon. LL.D. (City Univ. of N.Y.) 1972, Hon. D.Sc. (Notre Dame Univ.) 1973, Townsend Harris Medal Coll. of the City of New York; Royal Astronomical Soc. Gold Medal (U.K.) 1971; Day Medal Geological Soc. of America, Interior 1972; NASA Award 1973; Killian Faculty Achievement Award, M.I.T. 1975. *Publication:* Earth (with R. Siever) 1974. *Leisure interests:* skiing, sailing. *Address:* Office of Science and Technology Policy, Executive Office of the President, Washington, D.C. 20500; 2500 Virginia Avenue, N.W., Washington, D.C. 20037, U.S.A. (Home). *Telephone:* (202) 456-7116 (Office); (202) 333-6062 (Home).

PRESTON, Peter John, M.A.; British journalist; b. 23 May 1938, Barrow-upon-Soar, Leicestershire; s. of John Whittle Preston and Kathlyn (née Chell); m. Jean Mary Burrell 1962; two s. two d.; ed. Loughborough Grammar School and St. John's Coll., Oxford; Editorial Trainee, Liverpool Daily Post 1960-63; Political Reporter, The Guardian 1963-64, Educ. Corresp. 1965-66, Diary Editor 1966-68, Features Editor 1968-72, Production Editor 1972-75, Editor, The Guardian 1975-. *Leisure interests:* football, films, four children. *Address:* The Guardian, 119 Farringdon Road, London, EC1R 3ER, England. *Telephone:* 01-278 2332.

PRETI, Luigi; Italian politician; b. 23 Oct. 1914; fmr. lawyer and Prof. of Philosophy and Pedagogy; mem. Constituent Assembly 1946-47, Chamber of Deputies 1947-; Under-Sec. of State to Treas. (War Pensions Dept.) 1954; Minister for Finance 1958-59, 1966-68, of Foreign Trade 1962-63, without Portfolio Dec. 1963-66, for the Budget 1968-69, of Finance 1970-72, of Transport and Civil Aviation 1973-74 of Transport and the Merchant Navy March 1979-; Social Democrat. *Address:* Camera dei Deputati, Rome, Italy.

PRÊTRE, Georges; French conductor; b. 14 Aug. 1924; s. of Emile and Jeanne (Dérin) Prêtre; m. Gina Marny 1950; one s. one d.; ed. Lycée and Conservatoire de Douai, Conservatoire nationale supérieur de musique de Paris and Ecole des chefs d'orchestre; Dir. of Music, Opera Houses of Marseilles, Lille and Toulouse 1946-55, Dir. of music Opéra-comique, Paris, 1955-59, at l'Opéra 1959-; Dir.-Gen. of Music at l'Opéra 1970-71; conductor of the symphonic asscns. of Paris and of principal festivals throughout the world; also conducted at La Scala, Milan and major American orchestras; Conductor Metropolitan Opera House, New York 1964-65, La Scala, Milan 1965-66, Salzburg 1966; Légion d'honneur 1971, Haute Distinction République Italienne 1975. *Address:* 19 rue de Montbuisson, 78430 Louveciennes, France.

PREVIN, André George; American conductor, composer and pianist; b. (as Andreas Ludwig Priwin) 6 April 1929, Berlin, Germany; s. of Jack and Charlotte (Epstein) Previn; m. 1st Betty Bennett (divorced), two d.; m. 2nd Dory Langan 1959 (divorced 1970); m. 3rd Mia Farrow (*q.v.*) 1970 (divorced 1979), three s. three d.; ed. Berlin and Paris Conservatories and Univ. of Calif.; Music Dir. Houston Symphony, U.S. 1967-69; Music Dir. and Principal Conductor, London Symphony Orchestra 1968-(79); composed and conducted approx. 50 film scores 1950-65; Guest conductor of most major world orchestras, also Royal Opera House, Covent Garden, Salzburg, Edinburgh, Osaka, Flanders Festivals; Music Dir. London South Bank Summer Music Festival 1972-74, Pittsburgh Symphony Orchestra 1976-; series of television specials for BBC and for American Public Broadcasting Service; Television Critics Award 1972; Acad. Award for Best Film Score 1959, 1960, 1964, 1965. *Major works:* Symphony for Strings 1965, Overture to ■ Comedy 1966, Suite for Piano 1967, Cello Concerto 1968, Four Songs, Soprano and Orchestra 1968, Two Serenades for Violin 1969, Guitar Concerto 1970, Piano Preludes 1972, Woodwind Quintet 1973, Good Companions (musical) 1974, Song Cycle on Poems by Philip Larkin 1977, Every Good Boy Deserves Favour (music, drama, text by Tom Stoppard) 1977, Pages from the Calendar (for Solo Piano) 1977, Peaches (for Flute and Strings) 1978. *Publications:* Music Face to Face 1971, Orchestra 1977. *Leisure interests:* collecting contemporary art, fencing, American folk art. *Address:* c/o London Symphony Orchestra, 19 Argyll Street, London, W.1. England.

PRÉVOT, André-Romain, DR. EN MED., DR. ÈS SC.; French biologist; b. 22 July 1894, Douai (Nord); s. of Romain Prévot and Alix Mangoux; m. Anna Sörensen 1918; three s. one d.; ed. Lycée de Douai, Faculté des Sciences, Lille, Faculté de Médecine, Paris; Institut Pasteur, Paris 1922- (retd. 1965); fmr. Pres. Soc. française d'Hématologie, Soc. française de Microbiologie; Pres. numerous Int. Congresses; mem. Section of Human Biology and Medical Sciences, French Acad. of Sciences; mem. Section of Biol. Sciences, Acad. of Medicine; Officier de la Légion d'honneur, Officier de l'Ordre de la Santé Publique, Grand Officier de l'Ordre National du Mérite. *Publications:* Biologie des infections anaérobies 1954, Manuel de classification des anaérobies 1957 (American edn. 1965), Traité de systématique bactérienne 1961, Les bactéries anaérobies 1967, Encyclopédie internationale des sciences et des techniques, département "Bactériologique" 1969, Humus (Biogénèse, Biochimie, Biologie) 1970, Bactéries anaérobies mises à jour 1972, Biogénèse bactérienne du méthane et des pétroles 1977, Techniques pour la détermination des anaérobies, Bactériologie—notions élémentaires. *Leisure interests:* bibliography of biology of humification; practical applications in an experimental garden. *Address:* Institut Pasteur, 28 rue du Dr. Roux, 75015 Paris; Hone: 6 rue Gathelot, 92140 Clamart, France. *Telephone:* 642-08-06.

PREY, Hermann; German opera and concert singer; b. 11 July 1929, Berlin; m. Barbara Pniok; one s. two d.; ed. Humanistisches Gymnasium " Zum Grauen Kloster", Berlin, and Staatliche Musikhochschule, Berlin; at State Opera, Wiesbaden 1952, also Hamburg, Munich, Berlin, Vienna; guest appearances at La Scala, Milan, Metropolitan Opera, New York, Teatro Colón, Buenos Aires, San Francisco Opera; has sung at Festivals at Salzburg, Bayreuth, Edinburgh, Vienna, Tokyo, Aix-en-Provence, Perugia, Berlin, etc.; now with Munich State Opera; Meistersänger-Wettbewerb, Nuremberg 1952. *Leisure interests:* riding, films. *Address:* D-8033 Krailling vor München, Fichtenstrasse 14, Federal Republic of Germany. *Telephone:* 0811-89-65-90.

PRICE, Byron, A.B., A.M., LL.D.; American journalist and public servant; b. 25 March 1891, Clearspring Township, La Grange County, Ind.; s. of John and Emeline (Barnes) Price (British); m. Priscilla Alden 1920; ed. Wabash Coll.; reporter and editor United Press Assen. Chicago and Omaha 1912; with Associated Press 1912-41, News Editor Washington Bureau 1922-27, Chief 1927-37, Exec. News Editor 1937-41; Dir. of Censorship U.S. 1941-45; personal rep. Pres. Truman on special mission to Germany 1945; Vice-Pres. Motion Picture Assen. of America; Chair. Assen. of Motion Picture Producers 1946-47; awarded Pres. Medal for Merit 1946; Hon. K.B.E. 1948; Asst. Sec.-Gen. for Admin. and Financial Services, United Nations 1947-54; Dir. Gen. Press Congress of the World 1959. *Address:* 27 Larkspur, Hendersonville, N.C. 28739, U.S.A.

PRICE, Don Krasher, A.B., B.A., B.LITT., LL.D., L.H.D., LITT.D.; American university professor; b. 23 Jan. 1910, Middlesboro, Ky.; s. of Don Krasher Price and Nell Rhorer Price; m. 1st Margaret (Helen) Gailbreath 1936 (died 1970), one s. one d.; m. 2nd Harriet Sloane Fels 1971; ed. Vanderbilt and Oxford Univs.; reporter Nashville Evening Tennessean 1930-32; [redacted] staff Home Owners' Loan Corpn. 1935-37, Social Science Research Council 1937-39, Public Admin. Clearing House 1939-53, U.S. Bureau of the Budget 1945-46, Hoover Comm. on Org. of Exec. Branch of Govt. 1947-48; Deputy Chair. Research and Devt. Board, U.S. Dept. of Defense

1952-53; Assoc. Dir. The Ford Foundation 1953-54, Vice-Pres. 1954-58; Dean, John Fitzgerald Kennedy School of Govt. (fmrly. Graduate School of Public Admin.) 1958-77, Harvard Univ. and Prof. of Govt., Harvard Univ. 1958-; mem. President's Advisory Cttee. on Govt. Org. 1959-61; Consultant to Exec. Office of the Pres. 1961-72; Trustee, Vanderbilt Univ., Twentieth Century Fund, Rhodes Scholarship Trust 1968-78; mem. American Assn. for the Advancement of Science (Pres. 1967, Chair. of Board 1968); Hon. A.M., LL.D., L.H.D., Litt.D.; Faculty Prize of Harvard Univ. Press for The Scientific Estate 1965. *Publications:* City Manager Government in the United States (with Harold and Kathryn Stone) 1940, Government and Science 1954, The Secretary of State (Editor) 1960, The Scientific Estate 1965. *Leisure interests:* squash, tennis, fishing. *Address:* 79 Boylston Street, Harvard University, Cambridge, Mass. 02138; 984 Memorial Drive, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 617-876-2495 (Home).

PRICE, George Cadle; Belizean politician; b. 15 Jan. 1919; s. of William Cadle Price and Irene Price; ed. St. John's Coll., Belize City, and St. Augustin Seminary, Mississippi; City Councillor 1947-62; founder-mem. People's United Party (PUP) 1950, Sec. PUP 1950-56, Leader PUP 1956-; Pres. Gen. Workers' Union 1947-52; mem. Legislative Council, British Honduras (now Belize) 1954-65; mem. Exec. Council 1954-57, 1961-65; Mayor, Belize City 1956-62; mem. House of Representatives 1965-, Cabinet 1965-; fmr. mem. for Nat. Resources; First Minister 1961-63, leader of del. to London for self-Govt. constitutional talks; Premier 1964-, Minister of Finance and Economic Planning 1965-; Chair. Reconstruction and Development Corpn. *Address:* Office of the Premier, Belmopan, Belize.

PRICE, Sir (James) Robert, K.B.E., D.PHIL., D.SC., F.A.A.; Australian organic chemist (retd.); b. 25 March 1912, Kadina; S. Australia; s. of E. J. Price; m. Joyce E. Brooke 1940; one s. two d.; ed. St. Peter's Coll., Adelaide and Univs. of Adelaide and Oxford; Head, Chemistry Section, John Innes Horticultural Inst., U.K. 1937; Ministry of Supply (U.K.) 1939; Council for Scientific and Industrial Research (C.S.I.R.) Div. of Industrial Chem., Australia 1945; Officer in charge, Organic Chem. Section, Commonwealth Scientific and Industrial Research Org. (CSIRO) 1960, subsequently Chief Organic Chem. Div.; mem. Exec. CSIRO 1966; fmr. Chair. CSIRO 1970-77; Fellow, Australian Acad. of Science, Chair. Nat. Cttee. for Chem. 1966-69; Pres. Royal Australian Chem. Inst. (R.A.C.I.) 1962-64; H. G. Smith Memorial Medal (R.A.C.I.) 1956, Leighton Memorial Medal (R.A.C.I.) 1969. *Publications:* numerous scientific papers and articles. *Leisure interests:* squash, growing Australian native plants. *Address:* Ocean View Avenue, East R.S.D., Dromana, Victoria, Australia.

PRICE, Leontyne; American soprano singer; b. 10 Feb. 1927; ed. Central State Coll., Wilberforce, Ohio and Juilliard School of Music; appeared as Bess (Porgy and Bess), Vienna, Berlin, Paris, London, New York 1952-54; recitalist, soloist 1954-; soloist Hollywood Bowl 1955-59; opera singer NBC-TV 1955-58, San Francisco Opera Co. 1957-59, 1960-61, Vienna Staatsoper 1958, 1959-60, 1961; recording artist RCA-Victor 1958-; appeared Covent Garden 1958-59, 1970, Chicago 1959, 1960, Milan 1960-61, Metropolitan Opera, New York 1961-62, 1963-70, 1972, Paris Opéra ■ Aida 1968. *Address:* 1133 Broadway (Suite 603), New York, N.Y. 10010, U.S.A.

PRICE, Margaret Berenice; British opera singer; b. 13 April 1941, Tredegar, Wales; d. of late Thomas Glyn Price and of Lilian Myfanwy Richards; ed. Pontllanfraith Grammar School and Trinity Coll. of Music, London; operatic debut with Welsh Nat. Opera in Marriage of Figaro; renowned for Mozart operatic roles; has sung in world's leading opera houses and festivals; has made many recordings of opera, oratorio, concert works and recitals, and many radio broadcasts and television appearances; Hon. Fellow, Trinity Coll. of Music; Elizabeth Schumann Prize for Lieder, Ricordi Prize for Opera, Silver Medal of the Worshipful Co. of Musicians. *Major roles include:* Countess in Marriage of Figaro, Pamina in The Magic Flute, Fiordiligi in Cosí fan Tutte, Donna Anna in Don Giovanni, Konstanze in Die Entführung, Amelia in Simone Boccanegra, Salud in La Vida Breve, Agathe in Freischütz, Tatiana in Eugene Onegin. *Leisure interests:* cookery, reading, walking, swimming. *Address:* Flat 3, 24 Marylebone High Street, London, W1M 3PE, England.

PRICE, Sir Robert (*see* Price, Sir James Robert).

PRICE, Vincent, B.A., B.S.A.; American actor; b. 27 May, 1911, St. Louis; s. of Vincent L. Price and Marguerite Wilcox; m. 1st Edith Barrett 1938 (divorced), one s.; m. 2nd Mary Grant 1939 (divorced), one d.; m. 3rd Coral Browne 1974; ed. London Univ.; stage appearances include Victoria Regina 1935, Outward Bound 1939, Don Juan in Hell, Cocktail Party 1951, The Lady's Not for Burning 1952, Richard III 1954, Darling of the Day 1968, Oliver 1975. Film debut in Service de Luxe 1938; films include: Elizabeth and Essex 1939, Green Hell 1940, Tower of London 1940, Brigham Young 1940, Song of Bernadette 1943, Keys of the Kingdom 1944, Laura 1944, Czarina 1945, Dragonwyck 1946, Shock 1946, Long Night 1947, Three Musketeers 1949, Champagne for Caesar 1949, His Kind of Woman 1951, House of Wax 1953, The Mad Magician 1954, The Ten Commandments 1956, The Story of Mankind 1957, The Fly 1958, The Bat 1959, The House on Haunted Hill 1960, Fall of the House of Usher 1961, The Pit and the Pendulum 1961, Tales of Terror 1962, The Raven 1963, A Comedy of Terrors 1963, The Tomb of Ligeia 1964, City under the Sea 1965, Dr. Goldfoot and the Sex Machine 1965, House of a Thousand Dolls 1967, The Oblong Box 1969, Scream and Scream Again 1969, Cry of the Banshee 1970, The Abominable Dr. Phibes 1971, Dr. Phibes Rises Again 1971, Theatre of Blood 1973, Madhouse 1973; narrator with various symphony orchestras; numerous TV appearances; mem. Board Archives of American Art, Whitney Museum Friends of American Art; art consultant Sears Roebuck & Co.; Commr. of U.S. Indian Arts and Crafts Board. *Publications:* I Like What I Know 1958, Book of Joe (with Mary Price) 1960, Treasury of American Art 1972; editor (with V. Delacroix) Drawings of Delacroix. *Leisure interests:* collecting works of art, swimming. *Address:* 315 Beverly Drive, Beverly Hills, Calif. 90212, U.S.A. (Office).

PRICE, Walter Robert, B.A.; American business executive; b. 26 Feb. 1926, White Plains, N.Y.; m. Mary Alice Price 1951; one s. three d.; ed. Wesleyan Univ., Middletown, Conn.; joined General Motors Corporation 1951, posts in New York, Detroit, Peru, Belgium; Man. Dir. Gen. Motors Suisse, Bienne, Switzerland 1967-70, Gen. Motors Continental, Antwerp, Belgium 1970-71, Gen. Motors S. African (Pty) Ltd., S.A. 1971-74, Vice-Pres. Gen. motors 1978–; Chair. and Man. Dir. Vauxhall Motors Ltd., Luton April 1974-; infantry co. Commdr. U.S. Army, Second World War. *Leisure interests:* tennis, squash, golf. *Address:* Vauxhall Motors Ltd., Kimpton Road, Luton, Bedfordshire, England. *Telephone:* Luton 21122.

PRICE, Willard DeMille, B.A., M.A., LITT.D.; American explorer, naturalist and author; b. 28 July 1887, Peterborough, Canada; m. Mary Virginia Selden 1932; one s.; ed. Western Reserve and Columbia Univs.; editor various magazines; directed N. African expedition to make films of Arab life 1919-20; toured Indian, Burmese, Egyptian, Japanese and Philippine Univs. 1930; ethnographic studies Battaks (Sumatra) 1930, Bagobos (Philippines) 1935; expeditions for Nat. Geographic Soc. and American Museum of Natural History to Micronesia, Egypt, Japan, etc. 1936-77; foreign corresp. for American and British publs., China, Manchuria, Mongolia, Japan, Latin America and Africa 1933-70; travels in 144 countries. *Publications:* Ancient Peoples at New Tasks, The Negro Around the World, Study of American influence in the Orient, Pacific Adventure, Riptide in the South Seas, Japan Reaches Out, Children of the Rising Sun, Where ■■ you going, Japan?, Barbarian, Japan Rides the Tiger, Japan's Islands of Mystery, The Son of Heaven, Key to Japan, Roving South, Rio Grande to Patagonia, Tropic Adventure, Amazon Adventure, I Cannot Rest from Travel, South Sea Adventure, The Amazing Amazon, Journey by Junk, Underwater Adventure, Adventures in Paradise, Volcano Adventure, Roaming Britain, Whale Adventure, Incredible Africa, The Amazing Mississippi, African Adventure, Elephant Adventure, Rivers I Have Known, America's Paradise Lost, Safari Adventure, Lion Adventure, Gorilla Adventure, Odd Way Round the World, Diving Adventure, The Japanese Miracle, Cannibal Adventure, The Road Ahead, The Ironbound District, Heretic, Tiger Adventure. *Address:* 814N Via Alhambra, Laguna Hills, Calif. 92653, U.S.A.

PRIDEAUX, Sir Humphrey Povah Treverbian, Kt., O.B.E., M.A.; British business executive; b. 13 Dec. 1915, London; s. of Walter Treverbian Prideaux and Marion Fenn (née Arbuthnot); m. Cynthia V. Birch Reynardson 1939; four s.; ed. St. Aubyns, Eton and Trinity Coll., Oxford; Regular army officer 1936-53; Dir. Navy, Army & Air Force Insts. 1956-63, Chair. 1963-73; Chair. Lord Wandsworth Foundation 1966, Trustee 1963-; Deputy Chair. Liebig's Extract of Meat Co. Ltd. 1968-69, Dir. 1966-69; Chair. Oxo Ltd. 1968-72; Dir. W. H. Smith ■ Son (Holdings) Ltd. 1969, Vice-Chair. 1977-; Dir. Brooke Bond Oxo Ltd. 1969-70; Chair. Brooke Bond Liebig 1972; Pres. London Life Assn Ltd. 1973-, Dir. 1964–; Chair. London Life Managed Funds Ltd. 1974-. *Leisure interests:* riding, books. *Address:* Brooke Bond Liebig Ltd., Thames House, Queen Street Place, London, EC4R 1DH; Summers Farm, Long Sutton, Basingstoke, Hants.; also 124 Marsham Court, London, S.W.1, England. *Telephone:* 01-248 6422 (Office); Long Sutton 295; and 01-828 5378 (London).

PRIDEAUX, Sir John Francis, Kt., O.B.E.; British banker; b. 1911; m.; two s. one d.; ed. St. Aubyns, Rottingdean and Eton Coll.;

Middlesex Yeomanry, Second World War; Dir. Arbuthnot Latham and Co. Ltd. 1936, Chair 1964-69, Chair. Arbuthnot Latham Holdings Ltd. 1969-74, now Dir.; Dir. Westminster Bank Ltd. (from 1968 Nat. Westminster Bank) 1955-, Deputy Chair. 1962-69, Joint Deputy Chair. 1969-70, Chair. 1971-77, Chair. Int. Westminster Bank Ltd. 1969-77, Dir. April 1977-; Chair. and Treas., Board of Govs., St. Thomas' Hosp. 1964-74; Chair. Special Trustees for St. Thomas' Health District 1974-; Chair. Cttee. of London Clearing Bankers 1974-76; Pres. Inst. of Bankers 1974-76; mem. Cttee. to Review the Functioning of Financial Insts. 1976-; Vice-Pres. British Bankers' Assn. 1972-77. *Address:* Arbuthnot Latham Holdings Ltd., 37 Queen Street, London, EC4R 1BY; Elderslie, Ockley, Surrey, England.

PRIESS, Friedrich, D.IUR.; German banker; b. 19 Oct. 1903, Bremen; m. Maria Büttner 1931; one s. three d.; ed. Univs. of Freiburg and Marburg; Lawyer, Bremen and legal adviser to N.V. Philips Gloeilampenfabrieken 1929-30; judge, Bremen 1930-37, Hamburg 1937-50; Vice-Pres. Landeszentralbank, Hamburg 1950-56; Partner, M. M. Warburg-Brinckmann, Wirtz & Co., Hamburg 1956-73; Chair. Advisory Board, Deutsches Getreide-Kontor G.m.b.H. *Address:* M. M. Warburg-Brinckmann, Wirtz & Co., Ferdinandstrasse 75, 2000 Hamburg 1, Federal Republic of Germany. *Telephone:* 32-82-1.

PRIESTLEY, Charles Henry Brian, A.O., M.A., SC.D., F.A.A., F.R.S.; British meteorologist; b. 8 July 1915, Highgate, London; s. of Thomas Gordon Priestley and Muriel Brown; m. Constance Tweedy 1946; one s. two d.; ed. Mill Hill School and St. John's Coll. Cambridge; service in Meteorological Office, Air Ministry, at Porton (England), Suffield (Canada) and Dunstable (England), finishing as Officer-in-Charge Upper Air Analysis and Forecasting Branch 1939-46; Chief, Div. of Atmospheric Physics, Commonwealth Scientific and Industrial Research Org. (CSIRO) Australia 1946-73, Chair. Environmental Physics Research Laboratories 1971-78; Prof. Meteorology, Monash Univ., Australia 1978-; Fellow, Australian Acad. of Science 1954-, mem. Council 1958-60, Vice-Pres. 1959-60; Fellow Royal Soc. 1967-; Vice-Pres. Royal Meteorological Soc. 1957-59; mem. Exec. Cttee. Int. Assn. for Meteorology and Atmospheric Physics 1954-60, Vice-Pres. 1967-75; mem. Advisory Cttee. World Meteorological Org. 1964-68, Chair. 1967-68; mem. numerous other int. scientific bodies; Visiting Research Scientist, Univ. of Chicago 1957; David Syme Medal, Univ. of Melbourne 1956; Buchan Prize, Royal Meteorological Soc. 1948, Symons Gold Medal, Royal Meteorological Soc. 1967, Int. Meteorological Org. Prize 1973, Rossby Research Medal 1974, Flinders Lecture 1976. *Publications:* Turbulent Transport in the Lower Atmosphere 1959; 60 scientific papers. *Leisure interests:* golf, bridge. *Address:* Monash University, Clayton, Victoria; 2/862 Malvern Road, Armdale, Victoria 3143, Australia (Home).

PRIESTLEY, John Boynton, O.M., M.A., LL.D., D.LITT.; British writer; b. 13 Sept. 1894; m. Jacquetta Hawkes (*q.v.*) 1953; ed. Bradford and Trinity Hall, Cambridge; Pres. London P.E.N. Club 1936-37; Chair. 1941 Cttee. (on War Aims); contrib. to many periodicals, "Postscripts"; B.B.C.; Chair. UNESCO Int. Theatre Inst. Conf. Paris 1947, and Prague 1948; Chair. British Theatre Conf. 1948, Pres. Int. Theatre Inst. 1949; mem. Nat. Theatre Board 1965-67; Hon. Freeman of City of Bradford 1973. *Publications:* Criticism: English Comic Characters, The English Novel, Meredith, Peacock, The Art of the Dramatist 1957, Literature and Western Man 1960; Novels: Adam in Moonshine, Benighted, The Good Companions, Angel Pavement, Faraway, Wonder Hero, They Walk in the City, The Doomsday Men, Let the People Sing, Blackout in Gretley, Daylight on Saturday, Three Men in New Suits, Bright Day, Festival at Farbridge, The Magicians, Low Notes on a High Level, Saturn over the Water, The Thirty-First of June, The Shapes of Sleep, Sir Michael and Sir George 1964, Lost Empires 1965, Salt is Leaving 1966, It's an Old Country 1967, The Image Men (Vol. I: Out of Town; Vol. II: London End) 1968, Found, Lost, Found 1976; Essays: English Journey, Midnight on the Desert, Rain upon Godshill, Thoughts in the Wilderness, Delight, Charles Dickens: A Pictorial Biography, Man and Time 1964, Essays of Five Decades 1969, The Happy Dream 1976; Plays: Dangerous Corner, Eden End, Cornelius, Laburnum Grove, Bees on the Boat Deck, Time and the Conways, I Have Been Here Before, Music at Night, When We are Married, Johnson Over Jordan, Goodnight Children, They Came to a City, How are They at Home? Desert Highway, An Inspector Calls, Ever Since Paradise, The Linden Tree, Home is To-morrow, Summer Day's Dream, Dragon's Mouth and The White Countess (both with Jacquetta Hawkes), Mr. Kettle and Mrs. Moon, Take the Fool Away, The Glass Cage; assisted in dramatization of Iris Murdoch's A Severed Head 1963; The Pavilion of Masks (play) 1963; *libretto for* The Olympians (opera); *Television plays:* Now Let Him Go, The Stone Faces, Doomsday for Dyson, An Englishman's Journey (3-part serial) 1977; Non-fiction: Margin Released, Trumpets over the Sea 1968, The Prince of Pleasure 1969, The Edwardians 1970, Victoria's Heyday 1972, Over the Long High Wall 1972, The English 1973, Outcries and Asides 1974, A Visit to New Zealand 1974; The Carfitt Crisis 1975, Particular Pleasures 1975, English Humour 1976, Instead of the Trees (autobiography) 1977. *Address:* B3 & 4 Albany, Piccadilly, London, W.1; Kissing Tree House, Alveston, Stratford-on-Avon, Warwickshire, England.

PRIETO, Arnaldo da Costa; Brazilian civil engineer and politician; b. 13 Feb. 1930, Rio Grande do Sul; s. of Vicente B. Prieto and Henriqueta Maria Prieto; m. Irma Emilia Daudt Prieto; five s.; Pres. of Students Union of Rio Grande do Sul State; Titular Prof., Chair. of Topography, School of Eng., Pontífica Universidade Católica do Rio Grande do Sul; mem. Municipal Council, São Leopoldo 1960-63; Sec. of State for Labour and Housing, Rio Grande do Sul State 1963-67; Fed. Deputy 1967-71, 1971-75; Minister of Labour 1974-78. *Address:* c/o F.H.I.S.-QL 4/9, Casa 03, Brasília, D.F., Brazil.

PRIETO, Justo Pastor; Paraguayan lawyer, educationist and politician; b. 1897, Pilar; s. of the late Juan Pío Prieto and Concepción Rojas de Prieto; m. Beatriz Mernes de Prieto 1928; two s.; ed. Asunción Univ.; Secretary and legal adviser Police Dept. 1922; Pres. Municipal Council 1923; Nat. Dep. and Pres. Exec. Board Partido Liberal 1924; Prof. of Law Military School, Superior School of War and Escuela Normal de Profesores 1924; Prof. and Dean Faculty of Law and Social Sciences Asunción 1928, Rector of Univ. 1929; Minister of Justice and Educ. 1932; Dir. El Liberal; Prof. of Sociology Faculty of Econ. Science, Buenos Aires; Pres. of Senate 1939; Minister of Foreign Affairs 1939; Pres. of Comm. on Continental Defence at Panama Conf. 1939; Prof. of Industrial Sociology, Argentine Business Coll. 1966-; Extra. Prof. Sociology Univ. Mayor de San Andrés, Bolivia; Dir. of the Instituto Superior Internacional de Relaciones Públicas 1965-, Prof. of Sociology and Industrial Sociology; Pres. Cttee. for Self-Determination of the People; mem. Academia Ciencias Políticas, Buenos Aires, Académie Internationale des Sciences Politiques, Geneva, Institut International de Sociologie, Societé des Americanistes de Paris, del Instituto Latino Americano de Sociología, Academia Paraguaya de la Lengua Española, Soc. Argentina de Escritores; Dr. h.c. (Rio de Janeiro). *Publications:* Efectos jurídicos de las obligaciones naturales 1919, La sociología: su historia y estado actual 1927, El tratado de Rio de Janeiro 1929, La universidad y la solución de los problemas económicos, políticos y sociales 1931, Misión social del profesor de Enseñanza secundaria 1934, Síntesis sociológica 1937, 18 meses de regresión política 1937, Ideas para la concepción de la juventud universitaria como poder espiritual 1938, Dos Vidas Ejemplares 1939, Valor Social de la Salud 1939, Sentido Social de la Cultura Universitaria 1942, El Paraguay en la empresa emancipadora 1942, Los problemas generales de la Sociología 1943, La Vida indómita de Augusto Comte 1944, Estudiantes hoy, dirigentes mañana 1945, El Problema del Paraguay Mediterráneo 1946, Eusebio Ayala, Presidente de la Victoria 1950, Paraguay, la Provincia Gigante de las Indias 1951, Manual del Ciudadano Liberal Paraguayo 1953, Los Partidos políticos en la Constitución Social 1960, Sociología Industrial 1967, Sociólogos argentinos y la tradición continental 1967, Elementos de Sociología General 1971, Diccionario Comentado del Liberalismo 1973, Profesión de fe de una generación 1973, Enciclopedia Británica (Paraguayan edn.) 1972, Sociólogo del Derecho y de la Política, Prólogo a las Bases de la Organización política, Elementos ideológicos de la Emancipación americana 1975; contribs. on sociology and history to La Prensa. *Leisure interests:* journalism, sociological studies. *Address:* Lima 131, Buenos Aires, Argentina; Corupayty 357, Asunción, Paraguay. *telephone:* 38–1301 (Buenos Aires); 23-538 (Asunción).

PRIGOGINE, Ilya, PH.D.; Belgian university professor; b. 25 Jan. 1917, Moscow, U.S.S.R.; s. of Roman Prigogine and Julia Wichman; m. Marina Prokopowicz 1961; two s.; ed. Univ. Libre de Bruxelles; Prof. at Univ. of Brussels 1947-; Dir. Instituts Internationaux de Physique et de Chimie, Solvay 1962-; Dir. Center for Statistical Mechanics and Thermodynamics, Univ. of Texas; mem. Académie Royale de Belgique 1953, Pres. 1969-; Foreign Hon. mem. American Acad. of Sciences and Arts 1960; Fellow Acad. of Sciences of New York 1962; mem. Romanian Acad. of Science 1965; mem. Royal Soc. of Sciences, Uppsala, Sweden 1967; Foreign Assoc. Nat. Acad. of Sciences U.S. 1967; mem. corresp. de la Soc. Royale des Sciences, Liège 1967; Prix. Francqui 1955, Prix Solvay 1965; corresp. mem. Class of Physics and Mathematics, Acad. of Sciences, Göttingen 1970, Österreichische Akad. der Wissenschaften, Vienna 1971; mem. Deutsche Akad. der Naturforscher Leopoldina 1970, Acad. Int. de Philosophie des Sciences; Hon. mem. Chemical Soc. of Poland 1971;

American Chem. Soc. Centennial Foreign Fellow 1976; Dr. h.c. (Univs. of Newcastle upon Tyne 1966, Poitiers 1966, Chicago 1969, Bordeaux 1972, Uppsala 1977, Liège 1978, Aix en Provence 1978); mem. correspondant of Rheinische Westfälische Akademie des Wissenschaften, Düsseldorf, Hon. mem. de l'Association pour l'Avancement des Sciences de l'Inde, New Delhi; Svante Arrhenius Gold Medal, Acad. Royale des Sciences, Sweden 1969; Cothenius Gold Medal, Deutsche Akademie der Naturforscher Leopoldina (Halle) 1975, Rumford Medal 1976, Nobel Prize for Chem. 1977. *Publications:* Traité de Thermodynamique, conformément aux méthodes de Gibbs et de De Donder (with r. Defay) 1944, 1950, Etude Thermodynamique des Phénomènes Irréversibles 1947, Introduction to Thermodynamics of Irreversible Processes 1962, The Molecular Theory of Solutions (with A. Bellemans and V. Mathot) 1957, Non-Equilibrium Statistical Mechanics 1962, Non-Equilibrium Thermodynamics, Variational Techniques and Stability (with R. J. Donnelly and R. Herman) 1966, Kinetic Theory of Vehicular Traffic (with R. Herman) 1971, Thermodynamic Theory of Structure Stability and Fluctuations (with P. Glansdorff) 1971, Self-Organisation in Non Equilibrium systems, from Dissipative Structures to order through fluctúations (with G. Nicolis) 1977. *Leisure interests:* music, arts. *Address:* Avenue Fond'Roy 67, 1180 Brussels, Belgium. *Telephone:* 374-29-52.

PRIMATESTA, H.E. Cardinal Raúl Francisco; argentine ecclesiastic; b. 14 April 1919, Capilla del Señor; ordained 1942; consecrated Bishop of Tanais 1957; transferred to San Rafael 1961; Archbishop of Córdoba 1965-; created Cardinal by Pope Paul VI 1973. *Address:* Arzobispado, Avenida H. Irigoyen 98, Córdoba, Argentina.

PRINCE, William Henry Wood; American businessman; b. 7 Feb. 1914, St. Louis; m. Eleanor Edwards 1940; three s.; ed. Groton School for Boys and Princeton Univ.; with First Nat. Bank of Chicago 1936-42, 1945-47; Sec.-Treas. Sherman Hotel, College Inn Food Products Co. Chicago 1939-42; with Union Stock Yard & Transit Co. 1948-57, Pres. 1949-57; Dir. Armour & Co. 1950-69, Chair. and Chief Exec. Officer 1957-69; Pres. F. H. Prince & Co. Inc. 1969-; Dir. of other companies. *Address:* f. H. Prince & Co. Inc. 1 First National Plaza, Chicago, Ill. 60603, U.S.A. *Telephone:* 312 726 2232.

PRINGLE, John Martin Douglas, M.A.; British journalist; b. 28 June 1912, Hawick, Scotland; s. of J. Douglas Pringle; m. Celia Carroll 1936; one s. two d.; ed. Shrewsbury School, and Lincoln Coll., Oxford; mem. staff of Manchester Guardian 1934-39; served in Army 1940-44; Asst. Editor Manchester Guardian 1944-48; joined staff The Times 1948; Editor Sydney Morning Herald 1952-57, 1965-70; Deputy Editor The Observer 1958-63; Managing Editor Canberra Times 1964-65. *Publications:* China Struggles for Unity 1938, Australian Accent 1958, Australian Painting Today 1963, On Second Thoughts 1972, Have Pen: Will Travel 1973, The Last Shenachie 1976. *Address:* 27 Bayview Street, mcMahon's Point, North Sydney, N.S.W., Australia. *Telephone:* 92-7560.

PRINZ, Gerhard, DR.JUR.; German business executive; b. 1929; mem. Man. Board, Volkswagenwerk AG until 1973; Chair. Man. Board, AUDI-NSU 1972, Daimler-Benz. *Address:* AUDI-NSU Auto Union AG, 7107 Neckarsulm, Federal Republic of Germany.

PRIOR, Rt. Hon. James Michael Leathes, M.P.; British politician and farmer; b. 11 Oct. 1927, Norwich; s. of C. B. L. and A. S. M. Prior: m. Jane P. Gifford 1945; three s. one d.; ed. Charterhouse and Pembroke Coll., Cambridge; mem. of Parl. for Lowestoft 1959–; Parl. Private Sec. to Pres. of Board of Trade 1963, to Minister of Power 1963-64, to Rt. Hon. Edward Heath 1965-70; Vice-Chair. Conservative Party 1965, 1972-74; Minister of Agriculture, Fisheries and Food 1970-72, Lord Pres. of Council 1972-74; Shadow Spokesman on Home Affairs March-June 1974, on Employment June 1974-79; Sec. of State for Employment May 1979-; Dir. F. Lambert and Sons Ltd. 1958-70, IDC Group 1968-70, 1974-79, O. G. Lywood Ltd. 1969-70; Chair. Aston Boats Ltd. 1968-70, 1974-79; Dir. Norwich Union Insurance 1974-79, Avon Cosmetics Ltd. 1974-79; United Biscuits Ltd. 1974-79; Adviser to the Nickerson Group Ltd. 1975-79. *Leisure interests:* cricket, tennis, golf, gardening. *Address:* 36 Morpeth Mansions, London, S.W.1; Old Hall, Brampton, Suffolk, England. *Telephone:* 01-834 5543; Brampton 278.

PRITCHARD, Baron (Life Peer), cr. 1975, of West Haddon in the County of Northamptonshire; **Derek Wilbraham Pritchard;** British business executive; b. 8 June 1910, Didsbury, Lancs.; s. of Frank Wheelton Pritchard and Ethel Annie Cheetham; m. Denise Arfor Huntbach 1941; two c.; ed. Clifton Coll., Bristol; took over family business of E. Halliday and Son Ltd., Manchester; Army Service, Second World War 1939-46; Dir. E. K. Cole Ltd. 1946-49; joined Ind. Coope Ltd. ■■ Man. Dir. Grants of St. James's Ltd. 1949-, Dir. Samuel Montagu & Co. Ltd., Midland Bank Ltd., Guardian Royal Exchange Assurance, London American Finance Corpn., Paterson Zochonis and Co. 1976- and other companies; Chair. British Nat. Export Council 1966-68; Deputy Chair. Allied Breweries 1967-68, Chair. 1968-70; Pres. Inst. of Dirs. 1968-74; non-exec. Chair. of Carreras 1970-72; Chair. Rothmans Int. Ltd. 1972-75; Pres. Abbeyfield Soc. 1970-; Chair. The Dorchester Hotel 1976-79. *Leisure interests:* farming, fox-hunting. *Address:* 15 Hill Street, London, W1X 7FB (Office); West Haddon Hall, Northampton, NN6 7AU, England (Home). *Telephone:* 01-491 4366 (Office).

PRITCHARD, John Michael, C.B.E.; British conductor; b. 5 Feb. 1921, London; s. of Albert Edward Pritchard and Amy Edith Pritchard; ed. Sir George Monoux School, London; Conductor, Glyndebourne Festivals 1952-77, Principal Conductor, Glyndebourne Opera 1967-; Conductor and Musical Dir. Royal Liverpool Philharmonic Orchestra 1957-62; Principal Conductor and Artistic Dir. London Philharmonic Orchestra 1962-66; Co.-Dir. Opéra de Marseille 1966-68; Musical Dir. Glyndebourne Opera Festival 1969-77; Music Dir. Huddersfield Choral Soc. 1973-79; Chief Conductor, Cologne Opera (Jan. 1978-); visiting conductor with principal orchestras and opera houses throughout the world; Shakespeare Prize, F.v.S. Foundation 1975. *Leisure interests:* good food and wine, theatre. *Address:* c/o Artists International Management Ltd., 3 and 4 Albert Terrace, London, NW1 7SU, England.

PRITCHARD, Sir Neil, K.C.M.G.; British diplomatist (retd.); b. 14 Jan. 1911, Widnes, Lancs.; s. of the late Joseph William and Lilian Pritchard; m. Mary Devereux Burroughes 1945; one s.; ed. Liverpool Coll. and Worcester Coll., Oxford; Dominions Office 1933, Private Sec. to Perm. Under-Sec. 1936-38; Asst. Sec. Rhodesia and Nyasaland Royal Comm. 1938; Sec. Office of U.K. High Commr., Pretoria 1941-45; Principal Sec. Office of U.K. Rep., Dublin 1948-49; Asst. Under-Sec. of State, Commonwealth Relations Office (C.R.O.) 1951-54; Dep. U.K. High Commr., Canada 1954-57, Australia 1957-60; Act. Dep. Under-Sec. of State, C.R.O. 1961; High Commr. of U.K. in Tanganyika 1961-63; Dep. Under-Sec. of State, C.R.O. (later Commonwealth Office) 1963-67; Amb. to Thailand 1967-70. *Leisure interest:* golf. *Address:* Little Garth, Daglingworth, Cirencester, Glos., England.

PRITCHETT, Sir Victor Sawdon, Kt., C.B.E.; British author, critic; b. 16 Dec. 1900, Ipswich, Suffolk; s. of Sawdon Pritchett and Beatrice Martin; m. Dorothy Rudge Roberts 1936; one s. one d.; ed. Alleyn's School; Dir. of New Statesman 1960-78, has lectured in four univs. in U.S.A. including Brandeis Univ.; Resident writer, Smith Coll. 1967, 1970-72; Clark Lectures, Cambridge 1969; Pres. PEN Int. 1974-76; Pres. Soc. of Authors 1968, 1978; Hon. mem. American Acad. Arts and Letters, Nat. Inst. of Arts and Letters, N.Y.; Fellow Royal Soc. of Literature; Hon. D.Lit. (Leeds) 1972 (Columbia Univ. New York) 1978; PEN Biography Award for Balzac 1974. *Publications:* Marching Spain, Clare Drummer, The Spanish Virgin, Shirley Sanz, Nothing Like Leather, Dead Man Leading, You Make Your Own Life, In My Good Books, It May Never Happen, Why Do I Write? (with Elizabeth Bowen and Graham Greene), The Living Novel, Mr. Beluncle, Books in General, The Spanish Temper, Collected Short Stories, When My Girl Comes Home, London Perceived, The Key to My Heart, Foreign Faces, New York Proclaimed, The Living Novel and Later Appreciations, Dublin, A Cab at the Door (autobiog.) 1968, Blind Love (short stories), George Meredith and English Comedy 1970, Midnight Oil (autobiog. Vol. II) 1971, Balzac 1973, The Camberwell Beauty (stories) 1974, Turgenev 1977, The Gentle Barbarian 1977, Selected Stories 1978, The Myth Makers (essays Vol. I) 1979, On the Edge of the Cliff (stories) 1979. *Address:* 12 Regent's Park Terrace, London, N.W.1, England.

PROCHNOW, Herbert Victor, B.A., M.A., PH.d.; American banker and writer; b. 19 May 1897, Wilton, Wisconsin; s. of Adolph and Alvena Prochnow; m. Laura Virginia Stinson 1928; one s.; ed. Univ. of Wisconsin and Northwestern Univ.; Prin. Kendall (Wisconsin) High School 1917; Union Trust Co., Chicago 1923-29; The First Nat. Bank of Chicago 1929-73, rising from asst. cashier to Dir. 1960-68, Pres. 1962-68, Hon. Dir. 1968-73; Sec. Fed. Advisory Council of Fed. Reserve System 1945-; Consultant to Sec. of State 1955, 1957; Deputy Under-Sec. of State for Economic Affairs 1955-56; Alt. Gov. for U.S. of World Bank and Int. Monetary Fund 1955-56; Dir. Annual Summer Graduate School of Banking, Univ. of Wisconsin 1945-; Chair. U.S. Del. Gen. Agreement on Tariffs and Trade, Geneva 1956; fmr. Asst. Prof. Business Admin., Indiana Univ., lectures Loyola and Northwestern Univs.; financial columnist, Chicago Tribune 1968-70; Pres. Chicago Assen. of Commerce and Industry 1964, 1965; Commdr. of the Order of Vasa of Royal Govt. of Sweden 1965, Commdr. Cross of the Order of Merit of Germany 1968; several awards and hon. degrees. *Publications:* The

Public Speaker's Treasure Chest 1942, 1964, 1977, Great Stories from Great Lives 1944, Meditations on the Ten Commandments 1946, The Toastmaster's Handbook 1949, Term Loans and Theories of Bank Liquidity 1949, The Successful Speaker's Handbook 1951, 1001 Ways to Improve your Conversation and Speeches 1952, Meditations on the Beatitudes 1952, The Speaker's Treasury of Stories for all Occasions 1953, Speaker's Handbook of Epigrams and Witticisms 1955, Speaker's Treasury for Sunday School Teachers 1955, The Toastmasters and Speaker's Handbook 1955, A Treasury of Stories, Illustrations, Epigrams and Quotations for Ministers and Teachers 1957, Meditations on the Lord's Prayer 1957 (as Inspirational Thoughts on the Lord's Prayer 1970), The New Guide for Toastmasters and Speakers 1956, A Family Treasury of Inspiration and Faith 1958, The New Speaker's Treasury of Wit and Wisdom 1958, The Complete Toastmaster 1960, Effective Public Speaking 1960, Speaker's Book of Illustrations 1960, A Dictionary of Wit, Wisdom and Satire 1962, 1000 Tips and Quips for Speakers and Toastmasters 1962, Practical Bank Credit 1963, 1400 Ideas for Speakers and Toastmasters 1964, The Successful Toastmaster 1966, A Treasury of Humorous Quotations, Quotation Finders 1971, A Speaker's Treasury for Educators, Convocation Speakers, etc., A Tree of Life, Speakers' Source Book, 1001 Quips, Stories and Illustrations for All Occasions 1973, The Speaker's and Toastmaster's Handbook 1973, The Changing World of Banking 1974; co-author: The Next Century is America's 1938; editor American Financial Institutions 1951, Determining the Business Outlook 1954, The Federal Reserve System 1960, World Economic Problems and Policies 1965, The Five-Year Outlook for Interest Rates 1968, The One-Bank Holding Company 1969, The Eurodollar 1970, The Five-Year Outlook for Interest Rates in the U.S. and Abroad 1972, Dilemmas Facing the Nation 1979, The Toastmaster's Treasure Chest (with Herbert U. Prochnow Jr.) 1979. *Leisure interests:* gardening and writing. *Address:* One First National Bank Plaza, Chicago, Ill. 60670; 2950 Harrison Street, Evanston, Ill. 60201, U.S.A.

PROCKNOW, Donald Eugene, B.S.; American company executive; s. of Fred A. Procknow and Ruth (Trevor) Procknow; m. Esther Ehlert 1953; two s.; ed. Madison High School, S.D., South Dakota School of Mines and Tech., Univ. of Wisconsin; with Western Electric 1947-; Eng. Hawthorne Works, Chicago 1947-55; Asst. Supt. Devt. Eng., Hawthorne Works 1956-57; Supt. Precision Apparatus and Waveguide Shops, N.C. Works 1959-61; Asst. Works Man. N.C. Works 1961-62; Eng. of Mfg., New York HQ 1963-64; Gen. Man. Cen. Region, Service Div.-West Chicago 1964-65; Vice-Pres. Western Electric 1965-69, Exec. Vice-Pres. and Dir. 1969-71, Pres., Dir. and Chief Admin. Officer 1971-72, Pres., Dir. and Chief Exec. Officer 1972-; Chair. Greater New York Councils, Boy Scouts of America; Hon. D.Eng. (S.D. School of Mines and Tech.) 1973, Hon. LL.D. (Oklahoma Christian Coll.) 1974, (Morris Harvey Coll., W. Va.) 1976. *Leisure interest:* scouting. *Address:* Western Electric, 222 Broadway, New York, N.Y. 10038, U.S.A. *Telephone:* (212) 571-2345.

PROHASKA, Carl Wilhelm, D.SC.; Danish naval architect; b. 15 Feb. 1903; ed. Technical Univ. of Denmark; Naval Architect at shipyards in Denmark and France 1928-36; Prof. Technical Univ. of Denmark 1937-73; Dir. Hydro-Aerodynamics Laboratory, Lyngby 1957-73; Dir. Danish Ship Research Inst. (incorporating Danish Shipbuilders Computing Office) 1961-67; consulting Naval Architect; Chair. FAO Fishing Boat Conf. 1963, and Int. Load-Line Conf. Technical Cttee. London 1966; Vice-Pres. Danish Soc. of Nat. Sciences 1960-72; mem. Danish Eng. Inst. and Acad. of Technical Sciences, Swedish Eng. Acad., Acad. des Sciences, Institut de France and numerous Int. Eng. Socs.; Commdr. Order of Dannebrog, and Ordre Nat. du Mérite (France); William Froude Gold Medal of Royal Inst. Naval Architects. *Publications include:* Two-Nodal Ship Vibrations 1941, Residuary Stability 1947, Computer Calculations in Naval Architecture 1959, Trial Trip Analysis 1962. *Address:* Juul Steens Alle 9, Hellerup, Denmark. *Telephone:* HE–7325.

PROKHOROV, Aleksandr Mikhailovich; Soviet physicist; b. 11 July 1916, Atherton, Australia; s. of Mikhail Ivanovich Prokhorov and Mariya Ivanovna Prokhorova; m. Galina Alekseyevna Shelepina; one s.; ed. Leningrad State Univ.; Physicist, P. N. Lebedev Inst. of Physics, U.S.S.R. Acad. of Sciences 1939-, Vice-Dir. 1972; Academician-Sec., Section Physics and Astronomy, U.S.S.R. Acad. of Sciences 1973-; Corresp. mem. U.S.S.R. Acad. of Sciences (Dept. of Pure and Applied Physics) 1960-66, mem. 1966-, mem. Presidium 1970-; mem. American Acad. of Arts and Sciences 1971; mem. CPSU 1950-; Lenin Prize 1959; Nobel Prize for Physics for work in field of quantum electronics 1964; Chair. Soviet Nat. Cttee. U.R.S.I.; Editor in Chief of Soviet Encyclopaedia 1969-; Hero of Socialist Labour 1969, Order of Lenin (twice), and other decorations. *Address:* P. N. Lebedev Institute of physics, U.S.S.R. Academy of Sciences, 53 Leninsky Prospekt, Moscow, U.S.S.R.

PROKOFIYEV, Mikhail Alekseyevich; Soviet chemist and government official; b. 18 Nov. 1910, Voskresenskoe, Smolensk Region; ed. Moscow State Univ.; mem. CPSU 1941-; Dep. Dir. Chem. Research Unit, Moscow Univ. 1939-41, 1946-48; Deputy and First Deputy Minister of Higher and Specialized Secondary Educ. of U.S.S.R. 1951-66; R.F.S.F.R. Minister of Educ. 1966; Minister of Educ. of U.S.S.R. 1966-; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. Cttee. U.S.S.R. Parliamentary Group; mem. CPSU Cen. Cttee. 1971-; mem. Acad. of Pedagogical Sciences 1967-, Corresp. mem. U.S.S.R. Acad. of Sciences 1966-; Order of Lenin and other decorations. *Address:* Ministry of Education of U.S.S.R., Moscow, U.S.S.R.

PROKOSCH, Frederic, PH.D.; American writer; b. 17 May 1908, Madison, Wis.; s. of Prof. Eduard Prokosch and Matilda Dapprich; ed. Yale Univ. and King's Coll., Cambridge; *Publications:* Novels: The Asiatics 1935, The Seven Who Fled 1937, Night of the Poor 1939, The Skies of Europe 1941, The Conspirators 1943, Age of Thunder 1945, The Idols of the Cave 1946, Storm and Echo 1948, Nine Days to Mukalla 1953, A Tale for Midnight 1955, A Ballad of Love 1960, The Seven Sisters 1963, The Dark Dancer 1965, The Wreck of the Cassandra 1966, The Missolonghi Manuscript 1968, America, My Wilderness 1972, The Mermaid 1977; The Magic Carpet 1979; poems: The Assassins 1936, The Carnival 1938, Death at Sea 1940, Chosen Poems 1944, Some Poems of Hoelderlin (Trans.) 1944. *Leisure interests:* lepidoptery, book binding and printing, philately, bridge (tournament play). *Address:* Ma Trouvaille, 06 Plan de Grasse, France.

PROMYSLOV, Vladimir Fedorovich; Soviet construction engineer and politician; b. 28 July 1908, Oziory, Moscow Region; ed. Moscow Construction Engineering Institute; mem. CPSU 1928-; fmr. Deputy Chair. Council of Ministers, R.S.F.S.R. and Chair. State Cttee. of Council of Ministers of R.F.S.F.R. on Construction 1959-63; Deputy Chair. Council of Ministers of R.F.S.F.R. and Minister of Construction 1963; Chair. Exec. Cttee., Moscow City Soviet of Working People's Deputies 1963-; mem. Cen. Auditing Comm. of CPSU 1956-66; mem. Cen. Cttee. CPSU 1961-; Deputy U.S.S.R. Supreme Soviet 1966-; mem. Foreign Affairs Comm. Soviet of Union; mem. Cttee. U.S.S.R. Parliamentary Group, Order of Lenin (three times), Order of the October Revolution and other decorations. *Address:* Moscow City Soviet, Ulitsa Gorkogo 13, Moscow, U.S.S.R.

PRONK, Johannes Pieter, D.ECON.; Netherlands politician; b. 16 March 1940, The Hague; s. of Johannes Pronk and Elisabeth H. v. Geel; m. Catharina Zuurmond; one s. one d.; ed. Gymnasium and Erasmus Univ. Research Fellow, Netherlands Econ. Inst., Lecturer in Devt. Econs., Erasmus Univ. 1965-71; mem. Parl. 1971-73; mem. European Parl. 1973; Minister of Devt. Co-operation 1973-77; mem. Parl. 1978-; Socialist Party. *Address:* P.O. Box 61449, The Hague; Rondo 48, Krimpen/Yssel, Netherlands. *Telephone:* 01807-12259.

PROVENCHÈRES, Mgr. Charles de, L. ES L., L. EN THÉOLOGIE; French ecclesiastic; b. 3 Sept. 1904; ed. Institut du Sacré-Coeur, Moulins, and Institut Catholique, Paris; ordained Priest 1928; Curate at Cusset 1928-31; Spiritual Dir. at Institut du Sacré-Coeur Moulins 1931-38; Dir. Petit Séminaire Moulins 1938-45; served French Army 1939-40; Archbishop of Aix, Arles and Embrun 1945-78; Légion d'honneur, Croix de guerre, Hon. Dr. (Laval), Chapelain conventuel ad honorem de l'Ordre de Malte. *Address:* Le Tubet, 13 100 Aix-en-Provence, France. *Telephone:* (42) 20-05-09.

PROXMIRE, William, M.A.; American politician; b. 11 Nov. 1915; ed. Yale and Harvard Univs.; U.S. Army Intelligence Service 1941-46; State Assemblyman (Dem.) for Wisconsin 1951-52; U.S. Senator from Wisconsin 1957-; Chair. Senate Banking Cttee. 1975-; Pres. Artcraft Press, Waterloo, Wisconsin 1954-57; Democrat. *Address:* Senate Office Building, Washington, D.C. 20510, U.S.A.

PRYCE, Maurice Henry Lecorney, M.A., PH.D., F.R.S.; British university professor; b. 24 Jan. 1913, Croydon, Surrey; s. of William John Pryce and Hortense E. Lecorney; m. 1st Susanne M. Born 1939, 2nd Freda M. Oldham 1961; one s. three d.; ed. Royal Grammar School, Guildford, Trinity Coll., Cambridge, and Princeton Univ., U.S.A.; Fellow, Trinity Coll. and Faculty Asst. Lecturer Cambridge 1937; Reader in Theoretical Physics Liverpool Univ. 1939; Admiralty Signal Establishment 1941; Nat. Research Council of Canada (Atomic Energy) 1944; University Lecturer and Fellow of Trinity Coll. Cambridge 1945; Visiting Prof. Princeton Univ. 1950-51; Wykeham Prof. of Physics, Oxford 1946-54; Henry Overton Wills Prof. of Physics, Bristol 1954-64; Prof. Univ. of Southern

California 1964-68; Prof. of Physics, Univ. of British Columbia 1968-78; Visiting Prof. Univ. of S[illegible] 1976-77. *Leisure interests:* walking, music. *Address:* c/o Physics Department, Univ. of British Columbia, Vancouver V6T 1W5 (Office); 4754 W. 6th Avenue, Vancouver 8, Canada (Home). *Telephone:* 604-224-1596 (Home).

PRYCE-JONES, Alan Payan, T.D.; British writer and editor; b. 18 Nov. 1908; ed. Eton Coll. and Magdalen Coll., Oxford; Asst. Editor The London Mercury 1928-32; Editor The Times Literary Supplement 1948-59; served in France, Austria, Italy, Second World War 1939-45, Lieut.-Col. 1945; Trustee Nat. Portrait Gallery 1950-61; Dir. The Old Vic Trust 1950-61; mem. Council of Royal Coll. of Music 1956-61; Program Assoc. (Humanities and Arts) Ford Foundation 1961-63; Book Critic New York Herald-Tribune 1963-67; Theatre Critic Theatre Arts 1963-. *Publications:* The Spring Journey 1931, People in the South 1932, 27 Poems 1935, Private Opinion 1936, Prose Literature 1945-50; libretto for Berkeley's opera Nelson 1954; The American Imagination (edited) 1960, Vanity Fair (libretto) 1962. *Address:* 46 John Street, Newport, R.I. 02340, U.S.A.

PRYOR, David Hampton, LL.B.; American politician; b. 29 Aug. 1934, Camden, Ark.; s. of Edgar and Susan (née Newton) Pryor; m. Barbara Lunsford 1957; three s.; ed. Univ. of Arkansas; Admitted to Arkansas Bar 1964; mem. Ark. House of Reps. 1961-66; served in Congress, House of Reps. 1966-72; Gov. of Arkansas 1974-; mem. American Bar Assn., Arkansas Bar Assn. *Address:* Office of the Governor, Room 250, State Capitol, Little Rock, Ark. 72201, U.S.A.

PUCCI, Emilio, Marchese di Barsento, M.A., DR.SOC.SC.; Italian couturier; b. 20 Nov. 1914, Naples; s. of Orazio Pucci and Augusta Pavoncelli; m. Cristina Nannini di Casabianca 1959; one s. one d.; ed. Reed Coll., Portland (Oregon) and Florence Univ.; Air Force torpedo-bomber pilot 1938-42; started his own fashion house 1950; Neiman Marcus Fashion Award 1954, Burdine Fashion Award 1955; Sports Illustrated "Sporting Look" Designer's Award 1961; Pres. Emilio Pucci, Paris, Florence, New York, Munich Gesellschaft, Antico Setificio Fiorentino, Nat. Assn. Shoe Stylists, Consorzio del Chianti Classico; Vice-Pres. Mittel (Soc. Industriale Mediterranea) Milan; mem. Board of Dirs. Wells Rich Greene Inc. New York; mem. of Parliament for Florence, Liberal Party 1963-72; City Counsellor Florence 1964-; works under [illegible] "Emilio Pucci", Paris and New York; mem. Chamber of Deputies; Liberal. *Leisure interests:* skiing, swimming, tennis, fencing and flying. *Address:* Palazzo Pucci, 6 Via dei Pucci, Florence, Italy. *Telephone:* 283-061-62.

PUCK, Theodore Thomas B.S., PH.D.; American professor of biophysics; b. 24 Sept. 1916, Chicago, Ill.; s. of Joseph and Bessie Puckowitz; m. Mary R. Hill 1946; three d.; ed. Univ. of Chicago; Univ. Fellow, Dept. of Chem., Univ. of Chicago 1938-40, Research Assoc., Dept. of Medicine 1941-45, Asst. Prof. Depts. of Medicine and Biochem. 1945-47; mem. Comm. on Airborne Infections, Army Epidemiological Board, Office of Surgeon-Gen. 1944-46; Senior Fellow, Calif. Inst. of Technology, Pasadena 1947-48; Prof. and Chair. Dept. of Biophysics, Univ. of Colorado Medical Center 1948-67; Research Prof. of Biophysics, Univ. of Colorado Medical Center 1967-; Research Prof. of American Cancer Soc. 1966-; Dir. Eleanor Roosevelt Inst. for Cancer Research, Univ. of Colorado Medical Center 1962-; mem. Nat. Acad. of Sciences 1960-; Fellow American Acad. of Arts and Sciences 1967-; Lasker Award 1958; Borden Award 1959; Stearns Award, Univ. of Colorado 1959; General Rose Memorial Hospital Award 1960; Nat. Acad. of Science Award 1960; Distinguished Service Award of Univ. of Chicago Med. Alumni Assn. 1969; Gross Horwitz Prize of Columbia Univ. in Coll. Biology and Biochemistry 1973, Inst. of Med. Award 1974, Gordon Wilson Medal (American Clinical and Climatological Assn.) 1977. *Publications:* Many papers (some jointly) in the field of somatic cell genetics, concerning airborne infection, virus interaction with host cells, mammalian cell biochemical genetics, human cytogenetics and mammalian radiation biology; occasional papers dealing with interaction of science and society. *Leisure interests:* skiing, hiking, travel, music. *Address:* University of Colorado Medical Center, 4200 East Ninth Avenue, Denver, Colo. 80220 (Office); 10 South Albion, Denver, Colo. 80220, U.S.A. (Home). *Telephone:* 303-394-7152 (Office); 303-333-6938 (Home).

PUECH, Henri-Charles, L. ÈS L.; Agrégé de l'Université; French professor of history of religions; b. 20 July 1902, Montpellier; s. of Paul Puech and Madeleine Le Gras; m. Renée Chigot 1929 (died 1976); ed. Lycée de Montpellier, Lycée Louis-le-Grand (Paris), Ecole Normale Supérieure, Université de Paris (Sorbonne), Ecole Pratique des Hautes Etudes (Paris); Dir. of Studies, Ecole Pratique des Hautes Etudes, Sorbonne 1929-72; Prof. of History of Religions, Collège de France 1952-72, mem. Académie des Inscriptions et Belles-Lettres 1962-, Pres. 1968; Pres. Institut de France 1968; Vice-Pres. Int. Assn. for Study of History of Religions 1950-65; Corresp. Fellow British Acad. 1970; Officier Légion d'honneur, Commdr. Order nat. du Mérite, Commdr. Ordre des Palmes académiques; Dr. h.c. (Utrecht). *Publications:* Le traité contre les Bogomiles de Cosmas le Prêtre 1945, Le manichéisme: Son fondateur, [illegible] doctrine 1949, Histoire des religions (editor) 1970-77 (3 vols.), En quête de la gnose (2 vols.) 1978, L'evangile selon Thomas, Sur le manichéisme et autres essais 1979, and other Coptic Gnostic Writings of the Nag Hammadi Library; numerous articles and memoirs in various scientific reviews. *Address:* 79 [illegible] du Cherche-Midi, 75006 Paris, France.

PUISEUX, Robert; French industrialist; b. 1 March 1892; ed. Lycée Henri IV and Lycée Saint Louis, Paris; fmr. President, Soc. Anonyme André Citroën, Hon. Pres. 1958-; joint Man. Dir. Compagnie Générale des Etablissements Michelin 1938-59, mem. Supervisory Board 1959-; joint Man. Dir. Manufacture Française des Pneumatiques 1951-59; Officier Légion d'honneur, Croix de guerre (1914-18), Commdr. del l'Economie Nat. *Address:* 4 cité Chabrol, 63000 Clermont-Ferrand, France.

PUJA, Frigyès; Hungarian politician; b. 1921, Battonya, County Békés; ed. Party Acad.; joined Communist Party 1944; Sec. of Party, District Battonya 1945-46; [illegible] Party Cttee., Deputy Head of Appointments Cttee., County Csanád 1946-49; Sub-Dept. Leader Cen. Board of Hungarian Working People's Party 1949-53; Amb. to Sweden 1953-55, to Austria 1955-59; Deputy Foreign Minister 1959-63; Head Foreign Dept., Cen. Cttee. of Hungarian Socialist Workers' Party 1963-68; mem. Cen. Cttee. HSWP 1966-; First Deputy Foreign Minister 1968-73; Sec. of State for Foreign Affairs 1973; Minister of Foreign Affairs 1974-; Labour Order of Merit, golden degree 1970. *Publications:* The Problems of Coexistence 1967, Unity and Debate in the International Communist Movement 1969, Why is the Warsaw Treaty Organization Necessary? 1970, The Road to Security 1971, Principles and Doctrines 1972, Socialist Foreign Policy 1973, and various articles on int. affairs. *Address:* Ministry of Foreign Affairs, II. Bem József rakpart 47, H-1394 Budapest, Hungary. *Telephone:* 350-100.

PULINCKX, Raymond; Belgian business administrator; b. 1924; ed. Inst. supérieur de Commerce de l'Etat, Anvers; Chef de Cabinet, Ministry of Econ. Affairs 1958-61; Dir.-Gen., Fed. of Belgian Industries 1961-62, Dir.-Gen. and Administrator 1962-70, Exec. Vice-Pres. 1970, now Man. Dir.; Chevalier de l'Ordre de Léopold, Commdr. de l'Ordre de la Couronne de Chêne, Officier de l'Ordre de la Couronne. *Address:* 4 rue Ravenstein, Brussels 1, Belgium.

PULITZER, Joseph, Jr., A.B.; American newspaper editor and publisher; b. 13 May 1913; ed. Harvard Univ. Reporter San Francisco News 1935; mem. staff St. Louis Post-Dispatch 1936-48, Assoc. Editor 1948-55, Editor and Publr. 1955-; Vice-Pres. Pulitzer Publ. Co. 1940-55, Pres. 1955-; served U.S. Navy 1942-45. *Address:* St. Louis Post-Dispatch, Pulitzer Publishing Co., 1133 Franklin Avenue, St. Louis, Mo. 63101, U.S.A.

PULLAI, Árpád; Hungarian politician; b. 3 Sept. 1925, Kecskemét; s. of Károly Pullai and Teréz Szentkir'aalyi; m. Irén Gyórvári 1949; one s. one d.; fmr. County Sec., Hungarian Fed. of Democratic Youth; Hungarian Working People's Party 1948, fmr. First Sec. Debrecen Municipal Party Cttee., fmr. Editor Party Life; Sec. Central Cttee. Hungarian Communist Youth Union 1958-61, First Sec. 1961-64; mem. Central Cttee. Hungarian Socialist Workers' Party 1962-; Sec. of Cen. Cttee. 1966-76; Chief of Party and Mass Org. Dept. of Cen. Cttee. of Hungarian Socialist Workers' Party 1964-66; mem. Parl. 1971, 1975; Minister of Posts and Communications 1976-. *Address:* Ministry of Communications and Posts, 1400 Budapest, Dob utca 75/81, Hungary. *Telephone:* 220-220.

PULLICINO, Anthony Alfred, LL.D.; Maltese diplomatist and lawyer; b. 14 March 1917, Malta, G.C.; s. of Sir Phillip and Lady (née Maud Samut) Pullicino; m. Edith Baker 1944; three s. two d.; ed. St. Aloysius Coll., Malta and Royal Univ. of Malta; mem. Malta Legislative Assembly 1950-54, Speaker 1951-52; mem. Council, Commonwealth Parl. Assn.; High Commr. to Australia 1965-69, to U.K. 1970-71; Amb. to U.S.S.R. 1971-73; mem. Public Service Comm., Malta 1971. *Leisure interest:* golf. *Address:* 4/191 Tower Road, Sliema, Malta.

PUMPHREY, Sir (John) Laurence, K.C.M.G.; British diplomatist; b. 22 July 1916; ed. Winchester and New Coll., Oxford; Foreign Office 1945-47; Asst. Private Sec. to Prime Minister 1947-50; Berlin 1950-53; Foreign Office 1953-60, Head of Establishment and Org. Dept. 1955-60; Counsellor and Head of Chancery, Singapore 1960-63, Belgrade 1963-65; Deputy High Commr., Kenya 1965-67; High Commr. to Zambia 1967-71; High Commr. to Pakistan 1971-72, Amb. Jan. 1972-76; retd. *Address:* c/o Foreign and Commonwealth Office, London, S.W.1, England.

PUNGAN, Vasile, D.ECON.SC.; Romanian university professor and diplomatist; b. 2 Nov. 1926, Bălănesti, Gorj County; one d.; ed. Inst. of Economics, Bucharest; Dean of Faculty, Agronomical Inst. "Nicolae Bălcescu", Bucharest 1954; Gen. Dir., Ministry of Agriculture and Forestry 1955-58; Counsellor, Romanian Embassy, Washington 1959-62; Dir. and mem. Foreign Office Coll. 1963-66; Amb. to U.K. 1966-72; Counsellor of the Pres. of the Socialist Repub. of Romania 1973-; mem. Grand Nat. Ass. (GNA) and Chair. GNA Comm. for Foreign Affairs and Int. Co-operation 1975-; Alt. mem. Cen. Cttee. of RCP, mem. 1972-; Romanian decorations. *Address:* Consilul de Stat al R.S.R., Bucharest, Romania.

PUNTSAGNOROV, Tsevegzhauyn; Mongolian diplomatist; b. 11 Aug. 1924, Ulan Bator; m.; three c.; ed. Moscow Univ.; fmr. lecturer, Mongolian State Univ.; served on Cen. Cttee. of Mongolian People's Revolutionary Party until 1962-; Editor-in-chief Unen (official Govt. and Party newspaper) 1962; fmr. Deputy to Great People's Hural (Parliament); Deputy Chair. Council of Ministers 1963-72; Minister of Culture 1971-72; Perm. Rep. to UN 1972-78; corresp. mem. Acad. of Sciences of Mongolia. *Publications:* a book on Mongolian history and numerous articles. *Address:* c/o Ministry of Foreign Affairs, Ulan Bator, Mongolia.

PURCELL, Edward Mills, PH.D.; American physicist; b. 30 Aug. 1912, Taylorville, Ill.; s. of Edward A. Purcell and Mary E. Mills Purcell; m. Beth Busser 1937; two s.; ed. Purdue Univ., Technische Hochschule, Karlsruhe, and Harvard Univ.; Instructor in Physics, Harvard 1938-40; Radiation Laboratory, Mass. Inst. of Technology 1940-46 (Faculty Instructor on leave of absence, Harvard 1941-45); Assoc. Prof. of Physics, Harvard 1945-49, Prof. of physics 1949-58, Donner Prof. of Science 1958-60, Gerhard Gade Univ. Prof. 1960–; Senior Fellow, Society of Fellows, Harvard Univ. 1950-71; Pres. American Physical Soc. 1970; mem. Nat. Acad. of Sciences of U.S.A., American Acad. of Arts and Sciences, American Philosophical Soc.; co-winner Nobel Prize in Physics 1952. *Address:* Lyman Laboratory of Physics, Harvard University, Cambridge, Mass. 02138; 5 Wright Street, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-2860.

PURDY, James; American writer; b. 1923; ed. Chicago and Spain; Interpreter, editor and other posts in Cuba, Mexico, Washington, D.C. *Publications:* novels: Don't Call Me by My Right Name 1956, 63: Dream Palace 1956, Color of Darkness 1957, Malcolm 1959, The Nephew 1960, Cabot Wright Begins 1963, Eustace Chisholm and the Works 1967, Sleepers in Moon-Crowned Valleys (Part I Jeremy's Version 1970, Part II The House of the Solitary Maggot 1971), I am Elijah Thrush 1972, In a Shallow Grave 1976; play: Children is All 1962; An Oyster is a Wealthy Beast (story and poems) 1967, Mr. Evening 1968 (story and poems), On the Rebound 1970 (story and poems), The Running Sun (poems) 1971, Sunshine is an Only Child (poems) 1973, A Day after the Fair 1977 (stories and plays): Narrow Rooms (novel) 1978, Lessons and Complaints (poems) 1978, How I Became a Shadow (eight plays) 1979; L.P. Recordings: 1963: Dream Palace 1968, Eventide and Other Stories 1969. *Address:* c/o Curtis Brown Ltd., 575 Madison Avenue, New York, N.Y. 10022, U.S.A.

PURI, Ambrogio; Italian engineer and business executive; b. 26 Feb. 1920, Genoa; ed. Univ. of Genoa; began career with Cogne di Aosta; joined Istituto per la Riconstruzione Industriale (I.R.I.) Group 1947-, Dir. Ilva 1956-58, Dir.-Gen. Rifornimenti Finsider 1958-62, Dir.-Gen. Italsider 1962-70, Deputy Administrator Italimpianti 1970-73, Pres. Ansaldo (responsible for electromechanical-nuclear section, Finmeccanica Group) 1973-76; Dir.-Gen. and Administrative Consultant, Finmeccanica, and Co-Dir.-Gen. for coordination of electromechanical-nuclear section 1976; Pres. Italsider 1977-, Dir.-Gen. 1978-. *Address:* Istituto per la Riconstruzione Industriale, Via Veneto 89, Rome, Italy.

PURI, Kanwal Raj, B.A., LL.B.; Indian banker; b. 25 Feb. 1920, Lahore (now in Pakistan); s. of Mukand Lal and Iqbal Devi; m. Abnash Puri; three s. one d.; Man. Dir. Sunlight of India; Div. Man. Life Insurance Corpn. of India 1956-61, Zonal Man. 1961-60, Exec. Dir. 1970-72, Man. Dir. 1972, Chair. 1972-75; Gov. reserve Bank of India 1975-77. *Leisure interest:* golf. *Address:* c/o Reserve Bank House, 5 Carmichael Road, Bombay 26, India.

PURI, Yogendra Krishan; Indian diplomatist; b. 25 July 1916, Mardan, N.W.F.P., India (now Pakistan); s. of late Judge Dewan Radha Krishan Puri and Rattan Devi; m. Savitri Chand 1940; one s. two d.; ed. Government Coll., Lahore, and Univ. Coll., London; Indian Civil Service, Assam 1938-46; Deputy Sec., Ministry of Finance 1947; Ministry without Portfolio 1947; Dir.-Gen. Ministry of Rehabilitation 1948; Deputy High Commr. in Pakistan 1948-51; Deputy Sec. Ministry of External Affairs 1951-53; Counsellor Indian Embassy, Paris 1953-55; Counsellor Indian High Comm., London 1955; Joint Sec. Ministry of External Affairs 1955-60; High Commr. in Malaya 1960-63, in Malaysia 1963-64; Amb. to Morocco and Tunisia 1964-67, to Sweden 1968-69; High Commr. in Ceylon 1970-72; Amb. to Fed. Repub. of Germany 1972-75; Pres. Council, Colombo Plan 1972-73; mem. India Del. 2nd Afro-Asian Conf., Algiers 1965. *Leisure interests:* literature, golf, philately. *Address:* c/o Ministry of External Affairs, New Delhi 110011, India.

PUSACK, George Williams, M.S.(MECH.ENG.); American oil executive; b. 26 Sept. 1920, Michigan; s. of George F. Pusack and Winifred Williams; m. Marian Preston 1942; two s. one d.; ed. Univ. of Michigan, Univ. of Pennsylvania; Aero Engineer, U.S. Navy 1942-45; Corporal, U.S.A.F. 1945-46; Tech. Service and Research Man., Mobil Oil Corpn., U.S.A. 1946-53, Production Eng. Man. 1953-59, Int. Supply and Distribution Man. 1959-69, Vice-Pres. N. American Div. 1969-73, Regional Exec. Mobil Europe, London 1973-76, Chair. Mobil Oil Co. Ltd., London 1976-; Tech. Adviser to U.S. Dept. of Interior, Eastern Region Administrator, Emergency Petroleum and Gas Admin. 1968-73. *Leisure interests:* golf, travel, teacher, layreader, vestryman and warden of Episcopal Church. *Address:* 32 Gloucester Square, London, W.2, england. *Telephone:* 01-262 3589.

PUSEY, Nathan Marsh, A.M., PH.D.; American administrator; b. 4 April 1907, Council Bluffs, Iowa; s. of John Marsh and Rosa Drake Pusey; m. Anne Woodward 1936; two s. one d.; ed. Harvard Univ.; Asst. Harvard Univ. 1933-34; Sophomore Tutor, Lawrence Coll. 1935-38; Asst. Prof. History and Literature, Scripps Coll., Claremont, Calif. 1938-40; Asst. Prof. Classics, Wesleyan Univ. 1940-43, Assoc. Prof. 1943-44; Pres. Lawrence Coll., Appleton, Wis. 1944-53; Pres. Harvard Univ. 1953-71; mem. American Acad. of Arts and Sciences; Pres. Andrew W. Mellon Foundation 1971-75; numerous honorary degrees. *Publications:* The Age of the Scholar 1963, American Higher Education 1945-1970 1978. *Leisure interests:* reading, gardening, sailing. *address:* 200 East 66th Street, New York, N.Y. 10021, U.S.A.

PUSHKIN, Boris Konstantinovich; Soviet foreign trade official; ed. Moscow Technical Inst. of Fisheries and the Fish Industry; mem. CPSU 1940-; Official, U.S.S.R. Trade Representation in Hungary 1945-47; Dir. of Office, Tekhnoexport Trust 1947-55; Vice-Chair. Mashinoexport Trust 1955-63; Dir. of Office, Tekhsnabexport 1963-64; U.S.S.R. Commercial Rep. in Hungary 1964-69; Chair. Zapchastexport 1969-; Order of Red Banner of Labour (twice), Order of Patriotic War, Second Degree. *Address:* Zapchastexport, Ministry of Foreign Trade, Smolenskaya-Sennaya ploschchad 32-34, Moscow, U.S.S.R.

PUTRAMENT, Jerzy; Polish writer and journalist; b. 14 Nov. 1910, Minsk, U.S.S.R.; s. of Władysław Putrament and Maria Rutkowska; m. Anastazja Putrament; one s. one d.; ed. Univ. of Wilno; Editor, Rzeczpospolita, Lublin, Dziennik Polski, Cracow 1944-45; Amb. to Switzerland 1945-47, to France 1948-50; Deputy to Seym 1953-61; Gen. Sec. Union of Polish Writers 1950-54, Vice-Chair. 1959-; mem. Cen. Cttee. Polish United Workers Party 1964–; Editor, Kultura, Miesięcznik Literacki, Chief Editor, Współczesność-71, Literatura 1972-; State Prize 1953, 1955, 1964; Prize of Minister of Nat. Defence 1962; City of Warsaw Prize 1975; Commdr. Cross with Star of Polonia Restituta, Order of Builders of People's Poland 1974 and many other awards. *Publications:* Poems: Wojna i wiosna (War and Spring) 1944, Wiersze wybrane (Selected Verse) 1951; Novels: Rzeczywistość (Reality) 1948, Wrzesień (September) 1952, Rozstaje (Crossroads) 1954, Pasierbowie (Stepchildren) 1965, Odyniec (The Boar), Puszcza (The Forest), Małowierni (Petty Believers), Pół wieku (Half Century of Memoirs), Być sobą (To Be Oneself) 1968, Bołdyn 1969, 20 Lipca (20th July) 1973, Balet boleni i inne opowiadania 1974, Akropol 1975, Sobowtóry 1976, and numerous short stories. *Leisure interest:* fishing. *Address:* Zarząd Główny ZLP, Krakowskie Przedmieście 87/89, 00-079 Warsaw, Poland.

PUYANA, Rafael; Colombian harpsichordist; b. 4 Oct. 1931, Bogotá; unmarried; studied under Wanda Landowska; now lives in Paris but gives performances throughout the world; records for Philips, Nimbus Records and CBA. *Leisure interest:* collecting old keyboard instruments. *Address:* c/o Basil Douglas Ltd., 8 St. George's Terrace, London NW1 8XJ, England. *Telephone:* 01-722 7142.

PYKA, Tadeusz, DR.ECON.SC.; Polish politician; b. 17 May 1930, Piekary Sląskie, Tarnowskie Góry District; ed. Acad. of Mining and Metallurgy, Cracow; Head of Casting Section, M. Buczek Foundry, Sosnowiec 1951-55; Instructor, then Deputy Head of Econ. Acad., Katowice, later Head 1955-64, then Extraordinary Prof.; mem. Polish United Workers' Party 1953-; mem. Voivodship Cttee. PUWP, Katowice 1955-64; First Sec. Town Cttee. PUWP, Bytom

1964-67; Econ. Sec., then Second Sec. Voivodship Cttee. PUWP, Katowice 1967-74; Deputy mem. Cen. Cttee. 1964-71, mem. Cen. Cttee. 1971-; Deputy to Seym (Parl.) 1972-; Chair. Seym Comm. for Foreign Trade 1972-74; First Vice-Chair. Planning Comm. attached to Council of Ministers 1974-75; Deputy Chair. Council of Ministers Oct. 1975-; Chair. Council of Internal Markets Jan. 1976-; Chair. Cttee. for Internal Market Affairs attached to Council of Ministers 1978-. *Address:* Urząd Rady Ministrów PRL, Aleje Ujazdowskie 3/5, 00-583 Warsaw, Poland.

PYM, Rt. Hon. Francis Leslie, P.C., M.C., D.L., M.P.; b. 13 Feb. 1922, Abergavenny, Mon.; s. of Leslie Ruthven Pym and Iris Rosalind Orde; m. Valerie Fortune Daglish 1949; two s. two d.; ed. Eton and Magdalene Coll., Cambridge; Served with 9th Queen's Royal Lancers (North African and Italian campaigns) 1942-46; mem. Liverpool Univ. Council 1949-53, Herefordshire County Council 1958-61; mem. Parl. for Cambridgeshire 1961-; Opposition Deputy Chief Whip 1967-70, Govt. Chief Whip and Parl. Sec. to Treasury 1970-73; Sec. of State for Northern Ireland 1973-74; Opposition Spokesman for Agriculture 1974-75, 1976, for House of Commons Affairs and Devolution 1976-78, for Foreign and Commonwealth Affairs 1978-79; Sec. of State for Defence May 1979-. *Address:* House of Commons, Westminster, London, S.W.1.; Everton Park, Sandy, Bedfordshire, England (Home).

Q

QABOOS BIN SAID; Omani ruler; b. 18 Nov. 1940, Salalah; s. of late Said bin Taimur; 14th descendant of the ruling dynasty of Albusaid Family; m. Kamilar (d. of his uncle Tareq bin Taimur) 1976; ed. privately in U.K., Royal Mil. Acad., Sandhurst; Sultan of Oman (following deposition of his father) July 1970-; Hon. K.C.M.G. *Leisure interests:* reading, horse-riding, shooting. *Address:* Sultan's Palace, Muscat, Oman.

QADDAFI, Col. Mu'ammar al- (*see* Gaddafi, Col. Mu'ammar al-).

QADER, Yahia Hasan Abd al- (*see* Kader, Yehia Abdel).

QATAR, Emir of (*see* Thani, Sheikh Khalifa bin Hamad al-).

QUADROS, Jânio; Brazilian politician; b. 1917; ed. Sâo Paulo School of Law; part-time high school teacher; practised law; mem. Sâo Paulo City Council 1947-59; State Deputy 1950; Mayor, Sâo Paulo City 1952-55; Gov. Sâo Paulo State 1955-59; Federal Deputy 1959-60; Pres. of Brazil Jan.-Aug. 1961 (resigned); political rights suspended for 10 years, April 1964; arrested and banished to Corumba (near Bolivian border) July 1968. *Address:* Corumba, Brazil.

QUAISON-SACKEY, Alexander, M.A.; Ghanaian diplomatist; b. 9 Aug. 1924; ed. Mfantsipim School, Exeter Coll. Oxford, London School of Economics and Lincoln's Inn, London; fmr. teacher at Mfantsipim School and with Gold Coast Secretariat; Labour Officer Gold Coast 1952-55; Attaché British Embassy, Rio de Janeiro 1956; Head of Chancery and Official Sec. Ghana High Commission, London 1957-59; Perm. Rep. of Ghana to UN 1959-65; Minister of Foreign Affairs 1965-66; mem. Convention People's Party; Vice-Pres. UN Gen. Assembly 1961-62, Pres. UN Gen. Assembly 1964-65; Amb. to Cuba 1961, to Mexico 1962; under house arrest 1966, released June 1966; Amb. to U.S.A. and Mexico Jan. 1978-; Hon. LL.D. (Univ. of Calif.) 1965. *Publication:* africa Unbound 1963. *Address:* Embassy of Ghana 2460-16th Street, N.W., Washington, D.C. 20009, U.S.A.; Alcumbia Lodge, P.O.B. 104, Winneba, Ghana.

QUANDT, Bernhard; German politician; b. 14 April 1903, Rostock; m.; joined Communist Party of Germany 1923; 10 years' in concentration camp following active anti-fascist resistance from 1933; Minister of Agric. for Mecklenburg 1948-51, Prime Minister of Mecklenburg 1951-52; First Sec. Schwerin County Exec. of Socialist Unity Party, and mem. Schwerin County Ass. 1952-74; mem. Cen. Cttee. Socialist Unity Party 1958-; mem. People's Chamber 1952-54, 1958-; mem. Council of State 1973-. *Address:* Staatsrat, Volkskammer, Berlin, German Democratic Republic.

QUANDT, Herbert; German industrialist; b. 22 June 1910, Pritzwald, Mark Brandenburg; Chair. of Man. Board Altana Industrie-Aktien und Anlagen A.G., Bad Hamburg v.d.H.; Chair. of Supervisory Board Bayerische Motoren Werke AG, Munich, Busch Jaeger Gesellschaft für Industrie-Beteiligungen, Frankfurt, Byk Gulden Lomberg Chemische Fabrik GmbH, Konstanz, Milupa AG, Friedrichsdorf; Deputy Chair. of Supervisory Board, CEAG Industrie-Aktien und Anlagen AG, Bad Hamburg v.d.H., Varta AG, Bad Hamburg v.d.H., Varta Batterie AG, Hanover; mem. of Supervisory Board Industrie-Werke Karlsruhe-Augsburg AG, Karlsruhe, Gerlin- Kouzern Allgemeine Versichdrungs-AG, Cologne; Hon. D.Phil. *Address:* Gunther-Quandt-Haus, Seedammweg 55, 6380 Bad Homburg v.d.H., Federal Republic of Germany. *Telephone:* 06172–404–1.

QUANT, Mary, O.B.E., F.S.I.A.; British (Welsh) fashion and cosmetic designer; b. 11 Feb. 1934, London; d. of Jack Quant and Mildred (née Jones); m. Alexander Plunket Greene 1957; one s.; ed. Goldsmiths Coll. of Art, London; started career in Chelsea, London 1954; Dir. of Mary Quant Group of cos. 1955-; mem. Design Council 1971-, U.K.-U.S.A. Bicentennial Liaison Cttee. 1973-, Advisory Council Victoria and Albert Museum 1976-; restrospective exhbn. of 60's fashion, London Museum 1974; Sunday Times Int. Fashion Award; Rex Award (U.S.A.); Annual Design Medal, Soc. of Industrial Artists and Designers; Piavolo d'Oro (Italy); Royal Designer for Industry. *Publication:* Quant by Quant 1966. *Address:* Mary Quant Ltd., 3 Ives Street, London, S.W.3, England. *Telephone:* 01-584 8781.

QUASTEL, J. Hirsch, C.C., D.SC., PH.D., A.R.C.S., F.R.I.C., F.R.S.C., F.R.S.; British biochemist; b. 2 Oct. 1899, Sheffield; s. of late Jonas and Flora Quastel; m. 1st Henrietta Jungman 1931 (deceased 1973), two s. one d.; m. 2nd Shulamit Ricardo 1975; ed. Sheffield Central Secondary School, Imperial Coll. of Science, London, and Trinity Coll., Cambridge; served First World War; Fellow Trinity Coll. 1924; Dir. of Research Cardiff City Mental Hospital 1929-41; Fellow Royal Soc. London 1940, Royal Soc. of Canada 1952; Dir. Unit of Soil Metabolism, Agricultural Research Council 1941-47; Prof. of Biochemistry McGill Univ. Montreal, Canada 1947-66; Dir. McGill, Montreal Gen. Hospital Research Inst. 1947-65; Dir. McGill Unit of Cell Metabolism 1965-66; Prof. of Neurochemistry and Hon. Prof. of Biochemistry, Univ. of British Columbia 1966-; Visiting Prof. Nat. Hosp. (Inst. of Neurology), London; Pres. Montreal Physiological Soc. 1950; Fellow, New York Acad. of Sciences, North Pacific Soc. of Neuropsychology; mem. Neurochemical Comm., Int. Brain Research Org.; North American Comm. for Study of Alcohol Problems; Hon. Fellow Japanese Pharmacological Soc., Canadian Soc. of Microbiologists, Indian Brain Research Assen., Biochemical Soc. of U.K., Society for Neuroscience; Leeuwenhoek Lecturer Royal Soc. 1955, Kearney Foundation Lecturer (Univ. of Calif.), B. Priestman Lecturer (Univ. of New Brunswick); Hon. Consultant Montreal Gen. Hosp., etc.; Pres. Canadian Biochemical Soc. 1963; Royal Soc. Leverhulme Visiting Prof., India 1966; Seventh Jubilee Lecturer of Biochemical Soc. of U.K. 1974; Hon. Pres. Int. Congress of Biochemistry, Canada 1979; mem. Board Govs., Hebrew Univ., Jerusalem 1950-; Meldola Medal 1927, Pasteur Medal 1955, Canadian Microbiological Soc. Award 1965, Gairdner Int. Award for Medical Research 1974, Flavelle Medal of Royal Soc., Canada 1974; Hon. D.Sc. (McGill) 1969, Hon. Ph.D. (Jerusalem) 1970. *Publications:* Neurochemistry, Metabolic Inhibitors, Chemistry of Brain Metabolism in Health and Disease, Methods in Medical Research, Vol. 9, and over 350 scientific publications. *Address:* Division of Neurological Science. Department of Psychiatry, University of British Columbia, Vancouver 8, B.C.; 4585 Langara Avenue, Vancouver 8, B.C., Canada (Home). *Telephone:* 228-2202; 224-4755 (Home).

QUAYLE, Anthony, C.B.E.; British theatre director, producer and actor; b. 7 Sept. 1913, Ainsdale, Lancs.; s. of Arthur and Esther Overton; m. Dorothy Hyson 1947; one s. two d.; ed. Rugby and Royal Acad. of Dramatic Art; first stage appearance at Q Theatre 1931; joined the Old Vic Company 1932; first appearance in New York at Henry Miller Theatre 1936; with Old Vic at Elsinore 1937, and on tour of Continent and Egypt 1939; served in Royal Artillery 1939-45; reappeared at the Criterion Theatre in The Rivals 1945; produced Crime and Punishment at the New Theatre 1946; produced and acted in Shakespeare's plays at Shakespeare Memorial Theatre, Stratford-on-Avon Feb. 1948-56; Dir. Shakespeare Memorial Theatre 1949-56; produced Harvey London 1948, directed 1975; produced Terence Rattigan's Who is Sylvia, Criterion Theatre, London Oct.1950; toured Australia with Shakespeare Memorial Theatre Company 1949-50 and Jan.-Oct. 1953; acted name part in Tamburlaine, New York Jan. 1956; acted in A View From The Bridge, London 1956; European tour of Titus Andronicus 1957; dir. and acted in The Firstborn, New York, acted in Long Day's Journey into Night, Edinburgh, London and Broadway 1958, Look After Lulu, Chin-Chin 1960, The Right Honourable Gentleman 1964, Incident at Vichy 1966, Sleuth, London 1970, New York 1970-71, Everyman 1974, The Old Country 1978, Dir. Lady Windermere's Fan, London 1966, Galileo, New York 1967, Harvey, London 1975, Old World (London) 1976-77, Do you Turn Somersaults? (U.S.A.) 1977-78, The Rivals (also acted) 1978, King Lear 1978-; Actor/Dir. Clarence Brown Co., Tenn. 1975. *Films:* Woman in ■ Dressing Gown, The Man Who Wouldn't Talk, Ice Cold in Alex, Serious Charge, Tarzan's Greatest Adventure, The Challenge, The Guns of Navarone, H.M.S. Defiant 1961, Lawrence of Arabia 1962, The Fall of the Roman Empire 1964, Operation Crossbow, A Study in Terror, Anne of the Thousand Days, Bequest to the Nation, The Tamarind Seed, 21 Hours at Munich 1976, The Eagle Has Landed 1977, Murder by Decree 1978, also radio and TV plays including: Q.B.7, Moses 1974, Great Expectations 1974, Benjamin Franklin 1974, David and Saul 1975, Ice Age 1978; directed colour production Caesar and Cleopatra for Nat. Broadcasting Co. Television; producer The Idiot (Nat. Theatre) 1970. *Publications:* Eight Hours from England, On Such a Night. *Leisure interest:* sailing. *address:* c/o I.C.M., 22 Grafton Street, London, W.1., England.

QUEEN, Ellery (*see* Dannay, Frederic).

QUENNELL, Peter, C.B.E.; British writer; b. 9 March 1905, Bickley, Kent; s. of M. and C. H. B. Quennell; ed. Berkhamsted Grammar School and Balliol Coll., Oxford; fmr. Prof. of English Literature, Tokyo Bunrika Daigaku 1930; Editor Cornhill Magazine 1944-51, History Today 1951-. *Publications:* Baudelaire and the Symbolists, A Superficial Journey, Byron: The Years of Fame, Byron in Italy 1941, Caroline of England, Four Portraits 1945, Ruskin: The Portrait of a Prophet 1952, Spring in Sicily, The Singular Preference, Hogarth's Progress 1954, the Sign of the Fish 1960, Shakespare: the poet and his background 1963, Aspects of 17th Century Verse, Memoirs of the Comte de Gramont (trans.), Letters of Madame de Lieven; Editor: Memoirs of William Hickey, Byron: A Self Portrait (1798-1824), Mayhew's London Labour and the London Poor (3 vols.), Alexander Pope: the Education of Genius 1968, Romantic England 1970; Editor: Marcel Proust: 1871-1922 1971; Casanova in London (essays) 1971, Samuel Johnson, His Friends and Enemies 1972, The Marble Foot (autobiography) 1976. *Address:* 26 Cheyne Row, London, S.W.3, England.

QUENTIN-BAXTER, R. Q., LL.B. ; New Zealand lawyer; b. 17 Jan. 1922, Christchurch; ed. Univ. of New Zealand; joined diplomatic staff, Dept. of External Affairs 1949; Deputy High Commr. in Canada 1957-58; Deputy Perm. Rep. New Zealand Mission to UN 1959-61; Counsellor, Tokyo 1961-64; Asst. Sec. for Legal, Consular and S. Pacific Affairs 1964-68, concurrently senior Commr. for New Zealand, S. Pacific Comm.; Prof. of Jurisprudence and Constitutional Law, Victoria Univ. of Wellington 1968-; Rep. to Comm. on Human Rights (Chair. 1969); mem. Int. Law Comm. 1971-; del. to various int. confs. and several sessions of UN Gen. Assembly. *Address:* Faculty of Law, Victoria University of Wellington, P.O. Box 196, Wellington, New Zealand.

QUENUM, Comlan Alfred Auguste, M.D.; Benin physician; b. 10 Jan. 1926, Ouidah; m. Angèle Desirée Lalou; five s. three d.; ed. African School of Medicine and Pharmacy, Dakar, Senegal, and Faculty of Medicine, Univ. of Bordeaux; fmrly. at Centre d'Etudes Nucléaires, Saclay; later Dakar faculty of Medicine; del. Sixteenth World Health Assembly 1963, WHO Regional Cttee. for Africa; mem. WHO Cttee. on Professional and Technical Educ. of Medical and Auxiliary Personnel; Prof. of Histology and Embryology, Dakar Faculty of Medicine 1962-64; Regional Dir. for Africa, WHO 1965–; Prof., Faculty of Medicine and Pharmacy, Dakar 1966-; mem. Council of Lovanium Univ., Kinshasa, W. African Biological Soc., Medical Soc. of French-Speaking W. Africa and other medical asscns.; Dr. h.c. (Abidjan) 1970, (Zaire) 1973; decorations from Benin, Congo, Gabon, Senegal, Ivory Coast. *Publications:* numerous scientific papers and articles. *Address:* World Health Organization Regional Office for Africa, P.O. Box 6, Brazzaville, Congo People's Republic. *Telephone:* 30-72, 73, 74.

QUERO-CHIESA, Luis; American artist, writer and civic leader; b. 23 Jan. 1911, Ponce, Puerto Rico; s. of Pedro Quero and Manuela Chiesa; m. Filo Santiago 1933; two d.; ed. Parsons School of Design, New York; in field of graphic arts 1932-; Vice-Pres. in charge of art, Roy Blumenthal Int. Associates Inc. (int. public relations firm) 1948-; Pres. Puerto Rican Inst., New York 1959-; mem. Board of Higher Educ. of New York City 1964-, Chair. Nov. 1971-; founder, Youth Group (for young Puerto Ricans) 1960; Nat. Chair. Puerto-Rican Hispanic Div., Democratic Nat. Cttee.; Academician, Acad. of Arts and Sciences of Puerto Rico; mem. Inst. of Hispanic Culture, Madrid, Ateneo Puertorriqueno of San Juan; Hon. mem. Hispanic Soc. of America; represented in travelling exhbn. of American artists; research in Puerto Rican history and culture. *Publications:* An Outline of Puerto Rican Culture, Spain or the United States: A Puerto Rican Cultural Dilemma, Puerto Ricans in New York: A Transplanted Community, several vols. of short stories, numerous articles, essays and lectures. *Leisure interests:* music, art, literature. *Address:* Roy Blumenthal International Associates Inc., 1 East 57 Street, New York, N.Y. 10022; 144-45 35th Avenue, Flushing, N.Y. 11367, U.S.A. (Home).

QUIAZON, Troadio T., LL.B.; Philippine government official; b. 13 June 1921, Manila; ed. Univ. of the Philippines; mem. of the Philippine Bar 1948; Professorial Lecturer in Public Law, Univ. of the Philippines 1958-70; Legal Counsel and Chief of Legal Staff, Joint Legislature-Executive Tax Comm. 1960-68, Tax Consultant 1967-70; Officer-in-charge, Board of Industries 1962-70, Securities and Exchange Comm. 1970; Chair. Board of Travel and Tourist Industry 1971-73; Under-Sec. of Industry 1970-71, Sec. of Commerce and Industry 1971-72, of Trade and Tourism 1972-73, of Trade 1973-78, Minister of Trade 1978- Chair. or Presiding Officer of Metric System Board, Philippine Shippers Council, Philippine Int. Trading Corpn., Fair Trade Board, Price Stabilization Council, Design Centre Philippines and 8 other orgs. concerned with trade or nat. econ.; mem. 20 other bodies, inc. Nat. Econ. and Devt. Authority, Philippine Export Council, Philippine Port Authority, Maritime Industry Authority, Cement Industry Authority; Vice-Chair. ECAFE Session, Bangkok 1972; Chair. or Head of Philippine dels. to int. confs. concerning trade incl. UNCTAD, ECAFE, ESCAP, ASEAN. *Publications:* co-author: Philippine Law on Income, Estate Inheritance and Gift Taxation. *Address:* Ministry of Trade, Filcapital Building, Ayala Avenue, Makati, Manila, Philippines.

QUIJANO, Raúl Alberto; Argentine diplomatist; b. 13 Dec. 1923, Santa Fé; s. of Mateo Quijano and Sara Aldao de Quijano; m. Mercedes Santander 1963; one d.; ed. La Salle Coll., Buenos Aires and Univ. de Buenos Aires; Attaché, Argentine Foreign Service 1947, served in Perm. Mission to UN, in India and Pakistan; Third Sec., South Africa 1950; Second Sec., Perm. Mission to UN 1955, First Sec. 1958, Counsellor 1959, Minister 1963; Amb. and Dir.-Gen. of Political Affairs, Ministry of Foreign Affairs 1967; Amb. and Perm. Rep. to OAS 1969-75; Minister of Foreign Affairs 1976; Chair. Int. Civil Service Comm. (UN) 1975-76, 1977-; decorations from Govts. of Chile, Italy, Norway, Japan, Spain, Bolivia, Brazil. *Address:* International Civil Service Comm., United Nations, New York, N.Y. 10017, U.S.A. *Telephone:* 754-8465.

QUINE, Willard Van Orman, M.A., PH.D., LL.D., L.H.D., D.LITT.; American philosophy professor; b. 25 June 1908, Akron, Ohio; s. of Cloyd R. Quine and Hattie van Orman Quine; m. Marjorie Boynton 1948; one s. three d.; ed. Oberlin Coll. and Harvard Univ.; Sheldon Travelling Fellow (Harvard) to Vienna, Prague and Warsaw 1932-33; Junior Fellow, Soc. of Fellows, Harvard 1933-36, Faculty Instructor in Philosophy 1936-41, Assoc. Prof. 1941-48, Prof. of Philosophy 1948-56, Edgar Pierce Prof. of Philosophy, Harvard Univ. 1956-78, Emeritus Prof. 1978-; U.S. Naval Reserve 1942-46; Visiting Prof. Univ. of São Paulo, Brazil 1942, George Eastman Visiting Prof., Oxford Univ. 1953-54; Shearman Lecturer, Univ. of London 1954; Pres. Assen. for Symbolic Logic 1953-55; mem. Inst. for Advanced Study, Princeton 1956-57; Fellow, Center for Advanced Study in Behavioral Sciences, Stanford 1958-59; Gavin David Young Lecturer, Adelaide Univ., Australia 1959; Visiting Prof. Tokyo Univ. 1959; Fellow, Wesleyan Univ. Center for Advanced Study 1965; Fellow, American Acad. of Arts and Sciences, American Philosophical Soc.; Corresp. Fellow British Acad.; Corresp. mem. Institut de France; Visiting Prof. Rockefeller Univ. 1968, Collège de France 1969; Paul Carus Lecturer, New York 1971, Saville Fellow, Oxford 1973-74; Pres. American Philosophical Assen. 1958; mem. Institut Int. de Philosophie, Académie Int. de Philosophie des Sciences, Instituto Brasileiro de Filosofia, American National Academy of Sciences; Hon. D.Litt. (Oxford Univ.) 1970, (Cambridge Univ.) 1978 and other hon. degrees; Butler Medal, Columbia Univ. *Publications:* A System of Logistic 1934, Mathematical Logic 1940, Elementary Logic 1941, O Sentido da Nova Lógica 1944, Methods of Logic 1950, From a Logical Point of View 1953, Word and Object 1960, Set Theory and its Logic 1963, The Ways of Paradox 1966, Selected Logic Papers 1966, Ontological Relativity 1969, Philosophy of Logic 1970, Web of Belief (with J. S. Ullian) 1970, The Roots of Reference 1973. *Leisure interests:* languages, geography. *Address:* 38 Chestnut Street, Boston, Mass. 02108, U.S.A. *Telephone:* 723-6754.

QUINN, Anthony Rudolph Oaxaca; American actor-director of Irish and Mexican descent; b. 21 April 1916; m. 1st Katherine de Mille 1937 (divorced), two s. three d.; m. 2nd Iolanda Addoleri 1966; ed. Los Angeles; first appeared on stage 1936; has appeared in the films Viva Zapata, Lust for Life, La Strada, Man from Del Rio, The Black Orchid, Warlock, Last Train from Gun Hill, Heller in Pink Tights, Savage Innocents, Guns of Navarone, Barabbas, Lawrence of Arabia, The Visit, Zorba the Greek, The Twenty-Fifth Hour, Guns for San Sebastian, The Secret of Santa Vittoria, The Shoes of the Fisherman, The Magus, A Dream of Kings, The Last Warrior, Flap, Across 110th Street, The Don is Dead 1973, The Marseille Contract 1974, Mohammed, Messenger of God (retitled The Message in the United Kingdom) 1976, The Children of Sanchez 1977, The Greek Tycoon 1977, The Passage 1978, Dir. The Buccaneer 1958; Venice Film Festival Award for La Strada 1954, American Motion Picture Acad. Awards for Best Supporting Actor in Viva Zapata 1952, and Lust for Life 1956. *Publication:* The Original Sin (autobiog.).

QUINN, William Francis, LL.B.; American lawyer; b. 13 July 1919, Rochester, N.Y.; s. of Charles Alvin and Elizabeth (Dorrity) Quinn; m. Nancy E. Witbeck 1942; seven c.; ed. St. Louis Univ. and Harvard Law School; served in U.S. Navy 1942-46; worked with Honolulu law firm of Robertson, Castle and Anthony 1947-57 and partner 1950-57; admitted to practice in Territorial and Fed. Courts

1948; mem. Hawaii Statehood Comm. 1957; Territorial Gov. of Hawaii 1957-59; first Gov. of State of Hawaii July 1959-62; mem. Exec. Cttee. Nat. Govs. conf. 1959-60; Pres. Pacific Area Travel Assn. 1960-61; Partner, Quinn and Moore 1962-64; Exec. Vice-Pres. Dole Co., Honolulu 1964-65, Pres. 1965-72; Partner, Jenks, Kidwell, Goodsill & Anderson (law firm) 1972-73; Partner, Goodsill, Anderson and Quinn 1973-; Republican. *Address:* 16th Floor, Castle & Cooke Building, Financial Plaza of the Pacific, Honolulu, Hawaii 97813 (Office); 1365 Laukahi Street, Honolulu, Hawaii 96821, U.S.A. (Home). *Telephone:* 531-5066 (Office).

QUINN, William John, B.A., LL.B.; American lawyer and railway executive; b. 8 May 1911, St. Paul, Minn.; m. Floy I. Heinen 1942; four s. four d.; ed. St. Thomas Coll. St. Paul (Minn.) and Univ. of Minnesota Law School; Law practice St. Paul (Minn.) 1935-37, Asst. District Attorney 1937-40; Attorney Soo Line Railroad 1940-42; Special Agent Fed. Bureau of Investigation 1942-45; Asst. Commercial Counsel Soo Line Railroad 1945, Commerce Counsel 1946-52, Asst. Gen. Counsel 1952, Gen. Counsel 1952-53, Vice-Pres. and Gen. Counsel 1953-54; Gen. Solicitor Chicago, Milwaukee, St. Paul and Pacific Railroad 1954-55, Vice-Pres. and Gen. Counsel 1955-58, Pres. 1958-66, Chair. 1970-; Pres. Chicago Burlington & Quincy RR Co. 1966-70; Vice-Chair. Burlington Northern Inc. 1970; Chair. Chicago Milwaukee Corpn. 1970-78, Pres. 1972-78; Clow Corpn., Continental Illinois Nat. Bank & Trust Co. of Chicago, Continental Illinois Corpn., Peavey Co., Nat. Railroad Passenger Corpn.; Hon. LL.D. (St. Thomas Coll., St. Paul, Minn.). *Leisure interests:* golf, travel, viewing sports on television. *Address:* 111 West Washington Street, Room 1432, Chicago, Illinois 60602 (Office); 1420 Sheridan Road, Apt. 4D, Wilmette, Illinois 60091, U.S.A. (Home). *Telephone:* 312-236-7600.

QUINTANA, Carlos, M.SC., M.B.A.; Mexican engineer; b. 1912, Puebla; s. of Miguel A. Quintana and María-Cruz Gómez-Daza; m. Lulu Pali Solomon 1944; three s. three d.; ed. Instituto Politécnico Nacional, Mexico, and Columbia and Harvard Univs., U.S.A.; fmr. Prof. of Engineering, Instituto Politécnico Nacional, Mexico City; in Dept. of Industrial Research, Bank of Mexico 1944-50; Man. Ayotla Textile S.A., Mexico 1948-49; Dir. Industrial Development Division, Econ. Comm. for Latin America (ECLA) 1950-60, Exec. Sec. ECLA 1967-72; Manager Industrial Programming, Nacional Financiera 1960-67; mem. Governing Council, Mexican Inst. for Technological Research 1961-67; mem. Govt. Econ. Missions to Yugoslavia, Czechoslovakia, U.S.S.R. and Poland; mem. FAO Advisory Comm. on Pulp and Paper, Rome 1960-67; Asst. Sec.-Gen. UN 1967; Chair. of Board Centro Latinoamericano de Demografía; Man. Fondo Nacional de Fomento Industrial (Mexico) 1972; Gen. Credit Man. Nacional Financiera S.A. (official devt. bank of Mexico) 1974, Gen. Man. (Technical Advice) 1976. *Leisure interests:* music (piano), swimming. *Address:* Venustiano Carranza 25, México 1, D.F. (Office); Sierra Guadarrana 155, México 10, D.F., México (Home). *Telephone:* 520-86-99 (home).

QUINTERO, H.E. Cardinal José Humberto; Venezuelan ecclesiastic; b. 22 Sept. 1902, Mucuchies; ordained priest 1926; Archbishop of Acrida 1953-60; Archbishop of Caracas 1960-; created Cardinal and titular priest of St. Andrew and St. Gregory at Monte Celio 1961; mem. Sacred Congregations of Sacraments, of Rites and of Seminaries and Univs. of Study. *Address:* Arzobispado, Apartado 954, Caracas, Venezuela.

QUIROGA, Elena; Spanish writer; awarded Nadal Prize 1950. *Publications:* Viento del Norte 1951, La Sangre 1952, Algo Pasa en la Calle 1954, La Enferma 1954, La Careta 1955, Plácida, La Joven 1956, La Ultima Corrida 1958, Tristura 1960 (1960 Critics' Prize), Escribo tu Nomb re 1965 (chosen to represent Spain in the Rómulo Gallegos literary competition). *Address:* Real Academia de la Historia, Léon 21, Madrid 14, Spain.

QUIZPEZ ASIN-MAS, Carlos; Peruvian painter; b. 1906; ed. National School of Fine Arts, Lima, and San Fernando School of Fine Arts, Madrid; Federal Art Project, Calif.; Prof. School of Fine Arts, Lima 1943; Prof. of Mural Painting and Principal Teacher of Drawing and Painting; many mural paintings in public buildings in Peru; Gold Medal of Municipality of Lima for murals in Chamber of Deputies 1941. *Address:* Los Eucaliptos 854, Chaclacayo, Lima, Peru.

QUONIAM, Pierre; French museum director; b. 1920, Bois-Colombes; m. Florence Roy 1946; one s. two d.; ed. École des Hautes Etudes, Paris, Univ. of Paris and École française d'archeologie et d'histoire de Rome; Curator, Musée Bardo, Tunis 1948-53; Asst. in ancient history, Faculté des Lettres, Paris; Lecturer, Faculté des Lettres, Lyon; Research Officer, Centre National de la Recherche Scientifique (CNRS); Insp. Gen. of provincial museums 1962-72; Dir. Musée du Louvre 1972-79. *Address:* 15 rue Gazan, 75014 Paris, France.

QURAISHI, Abdul Aziz al-, M.B.A., F.I.B.A. ; Saudi Arabian government official; b. 1930, Hail; s. of Zaid al-Quraishi and Sheikhah Abdul Aziz; m. Amal Abdul Aziz al-Turki 1965; one s. two d.; ed. Univ. of Southern California, U.S.A.; Gen. Man. State Railways 1961-68; Pres. Gen. Personnel Bureau 1968-74; Minister of State 1971-74; Gov. Saudi Arabian Monetary Agency 1974-; Att. Gov. for Saudi Arabia, Islamic Devt. Bank; King Abdul Aziz Medal, Second Class; Order of Brilliant Star with Grand Cordon, Repub. of China; Order of Diplomatic Service Merit and Gwan Ghwa Medal, Repub. of Korea; King Leopold Medal, Commdr. Class, Belgium. *Address:* Saudi Arabian Monetary Agency, P.O. Box 394, Jeddah (Office); Ben Laden Building, Medina Road, Jeddah, Saudi Arabia (Home). *Telephone:* 34052 (Office); 53238 (Home).

QURESHI, Anwar Iqbal, B.A., M.A., M.SC., PH.D.; Pakistani economist; b. 10 April 1910, Jullundur; s. of Sio Alhaj Mufti Mohammad Yusaf Ali; m. Zubeda Khatoon 1932; one d.; ed. Forman Christian Coll., Lahore, London School of Economics, Trinity Coll., Dublin; Prof. Head Econs. Dept., Osmania Univ. 1937-47; Econ. Adviser, Govt. of Hyderabad 1944-47; Deputy Econ. adviser Govt. of Pakistan 1947-51; Adviser, IMF (Latin America, Middle and Far Eastern Dept.) 1951-55; Financial and Econ. Adviser, Saudi Arabia 1955-59; Econ. Adviser and Sec. Govt. of Pakistan 1961-68, Additional Sec. 1968-70; mem. Preparatory Cttee. Asian Devt. Bank; Pakistani Rep. at numerous int. econ. confs.; Pres. Pakistan Econ. Asscn.; Satara-i-Quait Azam 1965; Chief Economist Sabasun Technical Services, Lahore 1974-; Econ. Adviser, Engineering and Tech. Consultants, Lahore 1978-; mem. Council for Econ. Advisory Affairs, Govt. of Pakistan 1975-; Econ. Adviser, Eng. and Tech. Consultants. *Publications:* The Farmer and His Debt 1934, Agricultural Credit 1936, The State and Economic Life 1937, State Banks for India 1939, Islam and the Theory of Interest 1946, The Future of Co-operative Movement in India 1947, Economic Development of Hyderabad 1948, Development in Pakistan's Economy since the Revolution 1960, Pakistan's March on the Road to Prosperity 1965, An Economic Appraisal of Mr. Mujib's Six Points 1970, Economic Problems Facing Pakistan 1971, The Economy of Pakistan 1972-77 1977. *Leisure interests:* gardening, collection of books. *Address:* 65-Ferozepur Road, Lahore, Pakistan.

QURESHI, Ishtiaq Husain, M.A., PH.D.; Pakistani scholar and politician; b. 20 Nov. 1903, Patiali; s. of Qazi Sadiq Husain Qureshi and Begum Altafunnisa Qureshi; m. Nayab Begum Qureshi 1920 (died 1965); one s.; ed. St. Stephen's Coll. (Univ. of Delhi), and Sidney Sussex Coll., Cambridge; Lecturer in History, St. Stephen's Coll. 1928; Reader in History Univ. of Delhi 1940, Prof. and Head of Dept. of History 1944, Dean of Faculty of Arts 1945; mem. for Bengal, Constituent Assembly of Pakistan 1947; Prof. of History and Head of Dept. of History, Punjab Univ. 1948; Deputy Minister of the Interior, Information and Broadcasting, Refugees and Rehabilitation, Govt. of Pakistan 1949, Minister of State 1950, Minister for Refugees and Rehabilitation, Information and Broadcasting 1951-53; Minister of Educ. 1953-55; mem. Advisory Council of Islamic Ideology 1962-63, Nat. Comm. on Educ. and Manpower 1968-69; mem. Tehrik-I-Istiqlal party (Vice-Pres. 1976-); Visiting Prof. Columbia Univ., New York 1955-60; Dir. Cen. Inst. of Islamic Research, Karachi 1960-62; Vice-Chancellor Univ. of Karachi 1961-71; Fellow Pakistan Acad. of Letters 1978; Star of Pakistan 1964. *Publications:* The Administration of the Sultanate of Delhi 1941, The Pakistani Way of Life 1956, The Muslim Community in the Indo-Pakistan Subcontinent 1962, The Struggle for Pakistan 1965, The Administration of the Moghul Empire 1967, Ulema in Politics 1972, Education in Pakistan 1975, Akbar 1978, Perspectives of Islam and Pakistan 1979. *Leisure interests:* gardening, travel. *Address:* Zeba Manzar, 1 Sharafabad, Shahid-i-Millat Road, Karachi 5, Pakistan. *Telephone:* 411339.

QURESHI, Moeen Ahmad, M.A., PH.D.; Pakistani economist and international official; b. 26 June 1930, Lahore; s. of Mohyeddin Ahmad Qureshi and Khursheed Jabin; m. Lilo Elizabeth Richter 1958; two s. two d.; ed. Islamia Coll. and Govt. Coll., Univ. of Punjab and Indiana Univ., U.S.A.; Social Science Consultant, Ford Foundation, Pakistan 1953; Hon. Lecturer, Univ. of Karachi 1953-54; Asst. Chief, Planning Comm., Govt. of Pakistan 1954-56, Deputy Chief 1956-58; Economist, IMF 1958-61, Div. Chief 1961-65, Adviser Africa Dept. 1965-66, Resident Rep. Ghana 1966-68, Senior Adviser 1968-70; Econ. Adviser Int. Finance Corpn. 1970-74, Vice-Pres. 1974-77, Exec. Vice-Pres. Feb. 1977-. *Publications:* various articles in economic journals. *Leisure interests:* tennis, collecting antiques. *Address:* International Finance Corporation, 1818 H Street, N.W., Washington, D.C. 20433; 11108 Gilcrist Court, Potomac Falls, Potomac, Md. 20854, U.S.A. (Home). *Telephone:* (202) 477-2281 (Office); (301) 299-9542 (Home).

R

RABAEUS, Bengt, M.A.; Swedish diplomatist; b. 4 May 1917, Vara; m. Birgitta M. Svensson 1946; three s.; ed. Kungliga Universitet i Uppsala; entered Foreign Service 1946, served Prague, Paris, Swedish Del. to UN (New York); Counsellor, Swedish Del. to OEEC, Paris 1957-59; Head of UN Political Div., Foreign Office, Stockholm 1959-61; First Counsellor, Paris 1961-62; Amb. to Algeria 1963-66; Deputy Sec.-Gen. European Free Trade Assn. (EFTA) 1966-72, Sec.-Gen. 1972-76; Deputy Perm. Under-Sec. of State, Ministry of Foreign Affairs 1976-78; Perm. Rep. to European Communities 1978-. *Address:* Swedish Delegation, 6 Rond Point Robert Schuman, 1040 Brussels. *Telephone:* (02) 736-90-30.

RABASA, Emilio O.; Mexican lawyer and politician; b. 23 Jan. 1925; s. of Oscar Rabasa and Lilia M. de Rabasa; ed. Univ. Nacional Autónoma de México; Lecturer for 15 years, Univ. Nacional Autónoma de México; lawyer to Dept. of Banks and Money, Secr. of Finance; legal consultant to Heads of Agrarian Dept., Secr. of Agric. and Cattle, and to Secr. of Health and Nat. Assistance; Head of Legal Dept. of Banco Nacional de Credito Ejidal; Dir. Afianzadora Mexicana; Dir. Banco Cinematográfico 1965, concurrently Man. Dir. Compañiá Operadora de Teatros, Estudios Crurubusco, Películas Nacionales, CIMEX and PROCINEMEX; Amb. to U.S.A. 1970; Sec. of Foreign Affairs 1970-75. *Address:* c/o Secretaría de Relaciones Exteriores, Avenida Ricardo Flores Magón 1, Matelolco, D.F., Mexico.

RABETAFIKA, Joseph Albert Blaise, L. ÈS L.; Malagasy diplomatist; b. 3 Feb. 1932, Tananarive (now Antananarivo). Teacher in U.K., France and Madagascar 1953-59; joined Ministry of Defence, France 1960; mem. Madagascar Del. to independence negotiations with France 1960; Counsellor in charge of cultural affairs and information, Madagascar diplomatic mission, France 1960-63; Perm. Del. to UNESCO, Paris 1961-63; Head, Del. to IBE Confs., Geneva 1961-63; mem. del. to UN Gen. Assembly 1962-69; Perm. Rep. to UN 1969-; Vice-Pres. ECOSOC 1973. *Address:* Permanent Mission of Madagascar to the United Nations, 801 Second Avenue, Suite 404, New York, N.Y. 10017, U.S.A.

RABI, Isidor Isaac, B.CHEM., PH.D.; American professor of physics; b. 29 July 1898; ed. Cornell and Columbia Univs.; Tutor in Physics Coll. New York 1924-27; Barnard Fellow Columbia 1927-28; Int. Educ. Board Fellow Munich, Copenhagen, Hamburg, Leipzig, and Zürich 1928-29; Ernest Kempton Adams Fellow 1935; Lecturer Physics Columbia Univ. 1929-30, Asst. Prof. Columbia Univ. 1930-35, Assoc. Prof. 1935-37, Prof. 1937-64, Univ. Prof. 1964-67, Univ. Prof. Emer. 1967-; Higgins Prof. of Physics 1951-64; Exec. Officer Dept. of Physics 1945-49; Scientific Advisory Cttee. Ballistic Research Lab. Aberdeen 1939-65; Assoc. Dir. Radiation Lab. M.I.T. 1940-45; Chair. Vacuum Tube Devt. Cttee. (NDRC) 1942-45; Consultant Los Alamos Lab. 1943-45, 1956-; Council American Physical Soc. 1945-, Pres. 1950-51; Council Nat. Acad. 1946-49; Consultant Joint Research and Devt. Board 1946-48; Gen. Advisory Cttee. Atomic Energy Comm. 1946-56, Chair. 1952-56, Consultant 1956-; Trustee, Associated Universities, Inc. 1946-, Pres. 1961-62, Chair. 1962-63; Vice-Pres. UN Conf. [illegible] Peaceful Uses of Atomic Energy 1971-; Editor Board Physical Review 1935-38; mem. American Acad. of Sciences 1940-; del. UNESCO Conf. 1950; Vice-Pres. Int. Conf. on the Peaceful Uses of Atomic Energy 1955-58; mem. Presidential Science Advisory Cttee., NATO Science Advisory Cttee., I.A.E.A. Scientific Advisory Cttee., Adviser to UN Science Cttee., Council on Foreign Relations, Hudson Inst., Sigma Xi; Hon. D.Sc. (Princeton, Harvard, Birmingham, Clark, Technion, Brandeis and Coimbra Univs., and Adelphi and Franklin Marshall Colls.), LL.D. (Dropsie Coll.), Sc.D. (Williams Coll.), L.H.D. (Hebrew Union Coll. and Oklahoma City Univ.), Litt.D. (Jewish Theological Seminary of America), D.Sc. (Hebrew Univ., Jerusalem) 1972; Prize, American Assen. for Advancement of Sciences 1939; Elliot Cresson Medal, Franklin Inst. 1942; Nobel Prize in Physics 1944; Commdr., Order of the Southern Cross, Brazil 1952; Barnard Medal 1960; Priestly Memorial Award, Dickenson Coll. 1964; Niels Bohr Int. Gold Medal 1967; Atoms for Peace Award (U.S.) 1967. Work in the field of nuclear physics, quantum mechanics, and molecular beams. *Publications:* My Life and Times [illegible] Physicist 1960, Man and Science 1968, Science: The Centre of Culture. *Address:* 450 Riverside Drive, New York, N.Y. 10027, U.S.A.

RABIN, Oskar; Soviet painter, now working 'underground'; b. 1928, Moscow; m. Valentina Kropovnitsky; one s.; Student of artist and teacher Yevgeny Kropovnitsky; worked in Riga 1946-48; thereafter student of Surikov Art Inst., Moscow; later expelled for unorthodox views; worked until 1958 as loader [illegible] railways and on construction sites, painting clandestinely; employed in arts & design centre 1958-67; since 1967 has devoted himself exclusively to painting; moving spirit of Leonozovo group outside Moscow, where he now lives; exhibited in "Festival of Youth" Exhibition, Moscow 1957; one-man show Grosvenor Gallery, London 1965; two open-air exhibitions in Cheremushki, outside Moscow and organized by s. (both officially bulldozed) 1974; "Twenty Russian Artists", Moscow (Bee-keeping Pav., VDNKh) 1975; "Unofficial Art in the Soviet Union", London 1977. Other exhibitions in Fed. Repub. of Germany, Switzerland, Austria, France, Poland, USA (Chicago), Tbilisi, Denmark.

RABIN, Maj.-Gen. Yitzhak; Israeli army officer and politician; b. 1 March 1922, Jerusalem; s. of Nehemia and Rosa (Cohen) Rabin; m. Leah Schlossberg 1948; one s. one d.; ed. Kadoorie Agricultural School, Kfar Tabor, and Staff Coll., England; Palmach commands 1943-48; including War of Independence; represented Israel Defence Forces (I.D.F.) at Rhodes armistice negotiations; fmr. Head of Training Dept. I.D.F.; C.-in-C. Northern Command 1956-59; Head, Manpower Branch 1959-60; Deputy Chief of Staff and Head, Gen. Staff Branch 1960-64, Chief of Staff I.D.F. 1964-68; Amb. to U.S.A. 1968-73; mem. Knesset Jan. 1974-; Minister of Labour March-April 1974; Leader Labour Party 1974-77; Prime Minister 1974-77, also Minister of Communications 1974-75; Hon. Doctorates, Jerusalem Univ. 1967, Dropsie Coll. 1968, Brandeis Univ. 1968, Yeshiva Univ. 1968, Coll. of Jewish Studies, Chicago 1969, Univ. of Miami 1970, Hebrew Union Coll., Boston 1971. *Address:* c/o The Knesset, Jerusalem, Israel.

RABINOWITZ, Yehoshua; Israeli politician; b. 13 Nov. 1911; ed. Poland and Tel Aviv School of Law and Econs.; man. posts in Israeli Co-operative Movement 1948-56; [illegible] Tel Aviv Municipal Council 1956-59, Deputy Mayor 1959-61, Chair. Financial, Townbuilding and Planning Cttees. 1961-69, Mayor of Tel Aviv 1969-74; Minister of Housing March-May 1974, of Finance 1974-77; mem. Knesset 1977-; Labour Party. *Address:* c/o The Knesset, Jerusalem, Israel.

RABORN, Vice-Admiral William Francis, Jr.; American naval officer (retd.); b. 8 June 1905, Decatur, Texas; s. of William F. Raborn and Cornelia Moore; m. 1st Vance Barnes 1929 (deceased), 2nd Mildred T. Terrill 1955; one s. [illegible] d.; ed. U.S. Naval Acad.; Ensign U.S. Navy 1928; Deputy Dir. Guided Missile Div., Office Chief Naval Operations 1952-54; Commanding Officer U.S.S. Bennington 1954-55; Asst. Chief Staff Commdr. Atlantic Fleet 1955; Dir. Special Projects, Fleet Ballistic Missile System (Polaris) 1955-62; Deputy Chief of Naval Operations (Devt.) 1962-63; Vice-Pres. Program Management Aerojet Gen. Corpn. 1963-65; Vice-Pres. Gen. Rep. Aerojet Gen. Corpn. 1966-70; Dir. CIA 1965-66; Private Consultant 1970-; Pres. W. F. Raborn Co. Inc. *Leisure interest:* golf. *Address:* 1606 Crestwood Lane, McLean, Virginia 22101, U.S.A. *Telephone:* (703) 536-4492.

RABOTNOV, Yuriy Nikolayevich; Soviet mechanical engineer; b. 24 Feb. 1914, Gorky; ed. Moscow Univ.; Instructor, Moscow Inst. of Power Eng. 1935-46; Head, Strength Lab., Inst. of Mechanics, U.S.S.R. Acad. of Sciences 1946-58; Prof. Moscow Univ. 1947–; corresp. mem. U.S.S.R. Acad. of Sciences 1953-58, mem. 1958-; Deputy Dir. Inst. of Hydrodynamics, Siberian Dept., U.S.S.R. Acad. of Sciences 1958-65; Chief Editor Journal of Applied Mechanics and Technical Physics 1958-65; at Moscow State Univ. 1965–; Order of October Revolution and other decorations. *Publications:* The Local Stability of Shells 1946, The Equilibrium of [illegible] Elastic Medium with After-effects 1948, The Technical Theory of Approximation of Elasto-Plastic Shells 1951, Some Problems of Theory of Creep 1948, Modelling of Creep 1961, Unclassified Problems of Theory of Shells 1964, Symmetric Problems of Creep of Circular Cylindrical Shells 1964. *Address:* Moscow State University, Moscow, Leninskie Gory, U.S.S.R.

RABUKAWAQA, Sir Josua Rasilau, K.B.E., M.V.O.; Fijian diplomatist; b. [illegible] Dec. 1917, Nabouwala, Bua; s. of Dr. Aisea Rasilau and Adi Mereoni Dimaicakau; m. Mei T. Vuiwakaya 1944; three s. two d.; ed. Queen Victoria School, Fiji, Teachers' Training Coll., Auckland, N.Z.; teacher, Fiji 1938-52; Mortar Platoon Commdr. 1st Battalion Fiji Infantry Regt. Malayan Campaign 1954-55; Adjutant Fiji Mil. Forces 1955-56; Asst. Econ. Devt. Officer 1957-60; District Officer, Commr., Fiji 1961-70; High Commr. to U.K. 1970-75, accred.

to EEC Countries 1971-75; Amb. at Large to South Pacific Forum Countries 1977-; Chief of Protocol, Fiji 1977-. *Leisure interests:* rugby, cricket, music. *Address:* 6 Vunivini Hill, Nausori, Fiji.

RACE, Robert Russell, C.B.E., PH.D., F.R.C.P., F.R.C.PATH., F.R.S.; British serologist; b. 28 Nov. 1907, England; s. of late J. D. and May (née Tweddle) Race; m. 1st Monica Rotton 1938 (died 1955), 2nd Ruth Sanger (*q.v.*) 1956; three d.; ed. St. Paul's School, London, St. Bartholomew's Hospital, London, and Trinity Hall, Cambridge; Asst. Pathologist, Hospital for Consumption and Diseases 1935-37; Asst. Serologist, Galton Lab., Univ. Coll., London 1937-39; Asst. Dir., Dir. Galton Lab. Serum Unit, Dept. of Pathology, Cambridge 1939-46; Dir. Medical Research Council Blood Group Unit 1946-73; mem. Deutsche Akademie der Naturforscher Leopoldina; M.D. h.c. (Paris, Turku); Kruis van Verdeinst, Royal Neths. Red Cross, Carlos J. Finlay Medal (Cuba), Oliver Memorial Award, Karl Landsteiner Memorial Award (with Ruth Sanger); Philip Levine Award (with Ruth Sanger); Oehlecker Medal (Germany); Conway Evans Prize (London), Gairdner Award (Toronto, with Ruth Sanger). *Publications:* Blood Groups in Man (with ruth Sanger) 1950, 6th edn. 1975; many papers in medical and genetical journals. *Address:* Medical Research Council Blood Group Unit, Wolfson House, University College London, 4 Stephenson Way, London, NW1 2HE (Office); 22 Vicarage Road, East Sheen, London, SW14 8RU, England (Home). *Telephone:* 01-388 7752 (Office); 01-876 1508 (Home).

RACKER, Efraim, M.D.; American biochemist; b. 28 June 1913, Neu Sandez, Poland; m. Franziska Weiss 1945; one d.; ed. Univ. of Vienna; Research Asst. in biochemistry, Cardiff Mental Hospital, S. Wales 1938-40; Research Assoc., Dept. of Physiology, Univ. of Minn. 1941-42; Intern, Pneumonia Resident and Fellow, Harlem Hosp. New York 1942-44; Instructor, then Asst. Prof. of Microbiology, New York Univ. School of Medicine 1944-52; Assoc. Prof. of Biochemistry, Yale Univ. School of Medicine 1952-54; Chief, Div. of Nutrition and Physiology, Public Health Research Inst. of N.Y.C. 1954-56; Adjunct Prof. of Microbiology, N.Y. Univ. Bellevue Medical Center; Albert Einstein Prof. Dept. of Biochemistry and Molecular Biology, Cornell Univ. 1966-; Assoc. Editor Journal of Biological Chemistry; mem. Nat. Acad. of Sciences, Hon. Ph.D. (Chicago). *Publications:* Mechanisms in Bioenergetics 1965, Membranes of Mitochondria and Chloroplasts 1970, A New Look at Mechanisms in Bioenergetics 1976. *Leisure interests:* painting, squash. *Address:* Section of Biochemistry, Molecular and Cell Biology, Cornell University, Wing Hall, Ithaca, N.Y. 14853, U.S.A. *Telephone:* 607-256-4334.

RADEMAKER GRÜNEWALD, Adm. Augusto Hamann; Brazilian naval officer and politician; b. 11 May 1905, Rio de Janeiro; s. of Jorge C. Rademaker and Anna Grünewald; m. Ruth Rademaker 1940; five c.; ed. naval college; served in Brazilian navy 1927-64, becoming Head of Central Command, Atlantic Defence Zone; mem. Revolutionary Command 1964; Minister for the Navy 1964-69, also for Transport and Public Works 1964-67; mem. ruling triumvirate Aug.-Oct. 1969; Vice-Pres. of Brazil 1969-74; numerous decorations. *Address:* Brasília, Brazil.

RADFORD, Courtenay Arthur Ralegh, M.A., D.LITT., F.S.A., F.B.A., F.R.HIST.S.; British archaeologist; b. 7 Nov. 1900, Hillingdon, Middx.; s. of late Arthur and Ada M. Radford (née Bruton); unmarried; ed. St. George's School, Harpenden and Exeter Coll., Oxford; Inspector of Ancient Monuments for Wales and Monmouthshire under Office of Works 1929-34; Dir. British School of Rome 1936-40; mem. German Archaeological Inst.; mem. Royal Comm. on Ancient Monuments in Wales and Monmouthshire 1935-46; mem. Royal Comm. on Historical Monuments in England 1954-76; Pres. Prehistoric Soc. 1954-58, Royal Archaeological Inst. 1960-63, Soc. for Medieval Archaeology 1969-71. *Address:* Culmcott, Uffculme, Devon, EX15 3AT, England. *Telephone:* Craddock (0884) 40251.

RADJI, Parviz Camran, M.A.(ECON.); Iranian diplomatist; b. 1936, Teheran; s. of Abdol Hossein Radji and Malekeh Amiri; ed. Alborz Coll., Teheran, Hill School, Pa., U.S.A., Trinity Hall, Cambridge, U.K.; Nat. Iranian Oil Co. 1959-62; Ministry of Foreign Affairs 1962-65; Private Sec. Office of Prime Minister 1965; later Personal Asst. to Prime Minister; Special Adviser to Prime Minister 1972-76; Amb. to U.K. 1976-79.

RĂDULESCU, Gheorghe, D.SC. (ECON.); Romanian economist and politician; b. 5 Sept. 1914, Bucharest; s. of Dumitru and Ana Rădulescu; m. Dorina Rădulescu 1938; one s.; ed. Acad. of Higher Commercial and Industrial Studies, Bucharest; Gen. Sec. and Deputy Minister for Foreign Econ. Relations 1948-52; Dir. Inst. for Econ. Research, Romanian Acad. of Sciences 1956-57; Deputy Minister of Trade and Minister of Home and Foreign Trade 1957-63; Deputy Chair. Council of Ministers 1963-79; Chair. Comm. for Econ. and Tech. Collaboration and Co-operation 1963-74; mem. Romanian CP 1933-, mem. Cen. Cttee. Romanian CP 1960-; mem. Exec. Political Cttee. Cen. Cttee. of Romanian CP 1965-; mem. Perm. Presidium Cen. Cttee. Romanian CP 1969-74; mem. Standing Bureau Exec. Political Cttee. 1977; Perm. Rep. of Romania to Exec. Cttee. of Council for Mutual Econ. Assistance (COMECON) 1965-76; Chair. Higher Court for Financial Control 1976-; mem. Grand Nat. Assembly 1961-; mem. Defence Council 1969-74; mem. Acad. of Social and Political Sciences 1970-; several Romanian orders including Hero of Socialist Labour 1971. *Publications:* numerous econ. studies, especially on home and foreign trade. *Leisure interest:* music. *Address:* Central Committee of the Romanian Communist Party, Bucharest, Romania.

RADZINOWICZ, Sir Leon, K.B., M.A., LL.D., F.B.A.; Polish-born British lawyer and penologist; b. 15 Aug. 1906, Łódź; m. 1st Irene Szereszewski 1933 (divorced 1955), 2nd Mary Ann Nevins 1958; one s. one d.; ed. Cracow, Geneva, Paris, Rome and Cambridge Univs.; Lecturer, Geneva Univ. 1928-31; reported on Belgian penal system 1930; Lecturer, Warsaw Free Univ. 1932-36, Asst. Prof. 1936-39; visited England to report on English penal system for Polish Ministry of Justice 1938; Asst. Dir. of Research, Cambridge Univ. 1946-49, Fellow of Trinity Coll. 1948-, Dir. Dept. of Criminal Science 1949-59, Wolfson Prof. of Criminology 1959-73, Dir. Inst. of Criminology 1960-72; mem. Gov. Body, Int. Soc. for Social Defence; Vice-Pres. Assoc. Int. de Droit Pénal, Paris 1947-; Head UN Social Defence Section 1947-48; mem. Royal Comm. on Capital Punishment 1949-53, Home Office Advisory Council on Treatment of Offenders 1950-, Royal Comm. on English Penal System 1964-; Hon. Foreign mem. American Acad. of Arts and Sciences, Australian Acad. of Forensic Sciences; First Pres. British Acad. of Forensic Sciences; First Chair. Scientific Council, European Problems of Crime, Council of Europe 1963-69; Assoc. Fellow, Silliman Coll., Yale Univ. 1966-; Adjunct Prof. of Law and Criminology, Columbia Law School 1966-; Walter E. Meyer Visiting Prof., Yale Law School 1962-63; Visiting Prof. Univs. of Va. 1968-69, of Philadelphia and Camden 1968-, Univ. of Penn. 1970-, Rutgers Univ. 1970-, Minnesota Law School 1977-, John Jay Coll. of Criminal Justice 1978–; Dir. Securicor 1974; Visitor Princeton Inst. of Advanced Studies 1975; J. B. Ames Prize and Medal, Harvard Law School 1950; Chevalier, Ordre de Léopold 1930, Coronation Medal 1953; Bruce Smith Sr. Award for outstanding contribution to Criminal Justice Sciences of the U.S. 1976, Sellin-Glueck Award of the American Soc. of Criminology 1976. *Publications:* numerous books and articles in Polish, French, Italian and English on Criminology and Penology; History of English Criminal Law and Its Administration from 1750 Vol. I 1948, Vols. II and III 1956, Vol. IV 1968; In Search of Criminology 1961, The Need for Criminology 1965, Ideology and Crime 1966, Editor Cambridge Studies in Criminology (40 vols.); ed. with Marvin E. Wolfgang Crime and Justice (3 vols.) 1971, with Roger Hood Criminology and the Administration of Criminal Justice: A Bibliography 1976, with Joan King The Growth of Crime 1977. *Leisure interests:* travelling, dinner parties. *Address:* Trinity College, Cambridge; 21 Cranmer Road, Cambridge, England. *Telephone:* 56867.

RAE, Saul F., PH.D.; Canadian diplomatist; b. 31 Dec. 1914, Hamilton, Ont.; m.; four c.; ed. Univ. of Toronto, Univ. of London, Balliol Coll., Oxford, and Princeton Univ.; joined Canadian Dept. of External Affairs 1940; served London, Algiers, Paris 1943-47; First Sec., London 1949, Counsellor 1952; Adviser to Canadian Rep. on N. Atlantic Council 1949-52; Alt. del. to Vietnam Comm., Hanoi and Adviser to Canadian Commrs. of Int. Supervisory Comms., Indo-China 1955-56; Minister, Washington 1956-62; Amb. and Perm. Rep., Office of UN, Geneva 1962-67; Amb. to mexico and Guatemala 1967-72; Perm. Rep. to UN 1972-76; del. to numerous UN and other int. confs. *Address:* c/o Ministry of Foreign Affairs, Ottawa, Canada.

RAFAEL, Gideon; Israeli diplomatist; b. Germany 5 March 1913; ed. Univ. of Berlin; immigrated 1934; mem. Kibbutz 1934-43; active in Haganah and war services 1939-42; Jewish Agency, Political Dept. 1943; in charge of preparation of Jewish case for Jewish Agency, Political Dept., Nuremberg War Crimes Trial 1945-46; mem. of Jewish Agency Comm. to Anglo-American Comm. of Enquiry 1946, and of Jewish Agency mission to UN Special Comm. for Palestine 1947; mem. Israel Perm. Del. to UN 1951-52; alt. rep. to UN 1953; rep. at UN Gen. Assemblies 1947-66; Counsellor in charge of Middle East and UN Affairs, Ministry for Foreign Affairs 1953-57; Amb. to Belgium and Luxembourg 1957-60, to the EEC 1959; Deputy Dir.-Gen. Ministry of Foreign Affairs 1960; Head of Israel Del. Int. Conf. Law of the Sea, Geneva 1960; Deputy Dir.-Gen. Ministry for Foreign Affairs 1960-65; Perm. Rep. to UN,

Geneva 1965-66, 1967; Special Amb. and Adviser to Foreign Minister 1966-67; Dir-Gen. Ministry for Foreign Affairs 1967-71; Senior Political Adviser to Minister of Foreign Affairs 1972-73, 1977-78; Amb. to U.K. (also accred. to Ireland) 1973-77; Head of Del. to UNCTAD III 1972. *Address:* c/o Ministry of Foreign Affairs, Tel Aviv, Israel.

RAGCHAA, Tümenbayaryn; Mongolian politician; b. 21 Jan. 1917; ed. Central School for Party and State Cadres, Ulan Bator, higher co-operative courses, U.S.S.R. and Mongolian State Univ.; Clerk in Uvs Province admin. office, primary school teacher 1930-32; official of various provincial co-operative orgs. 1936-54; Head of a Dept., then Deputy Chair. Cen. Co-operative Union, then Chief Book-keeper, then Dir. of Finance Dept. of Ministry of Foreign Trade 1954-58; lecturer at Mongolian State Univ. 1958-59; First Deputy Chair. State Planning Comm. 1959-60; Deputy Chair. Council of Ministers 1960-72, First Deputy Chair. 1972-; Deputy Chair. State Rural Construction Comm. 1971-; mem. Mongolian People's Revolutionary Party (MPRP) Cen. Cttee. 1961-; cand. mem. Political Bureau of MPRP Cen. Cttee. 1972-74, mem. Political Bureau 1974-; Deputy to People's Great Hural (Assembly) 1960-; Order of Sühbaatar (twice). *Address:* Government Palace, Ulan Bator, Mongolia.

RAGGHIANTI, Carlo Ludovico, D.LITT.; Italian art historian and critic; b. 18 March 1910; ed. Univ. of pisa; Founder and Dir. La Critica d'Arte 1935-; Prof. of History of Medieval and Modern Art, Univ. of Pisa 1939-; Dir. Univ. Inst. of History of Art; Founder and Dir. Studio Italiano di Storia dell' Arte, Florence 1945-; Under-Sec. of State for Educ. and the Fine Arts 1945; Nat. Adviser 1946; mem. various Int. Acads. *Publications include:* Le Vite del Vasari 1943-47, Impressionismo 1944, Commenti di critica d'arte 1945, Miscellanea di critica d'arte 1946, Ponte a Santa Trinità 1948, Profilo della critica d'arte 1948, Cinema arte figurativa 1951, L'arte e la critica 1951, La Pittura fiorentina del Dugento 1952, Una Lotta nel suo corso 1952, Frank Lloyd Wright 1952, Il mito dell'impressionismo 1952, Disegno della liberazione italiana 1954, Il pungolo dell'arte 1956, Manzu 1956, Mondrian e l'arte del XX secolo 1962, Pittori di Pompei 1963, Michelangelo 1965. *Address:* Universita degli Studi, Lungarno Pacinotti 43, Pisa, Italy.

RAGHAVAN, Venkatarama, M.A., PH.D.; Indian Sanskrit scholar; b. 22 Aug. 1908, Tiruvarur, Tamilnadu; s. of S. Venkatarama Iyer and Minakshi; m. Sarada Raghavan 1938; two s. two d.; ed. Tiruvarur High School and Madras Univ.; Supt. Sarasvati Mahal Manuscript Library, Tanjore 1930; successively Research Scholar, Research Asst., Lecturer, Reader, Prof. and Head of Dept., Madras Univ. Dept. of Sanskrit 1931-69; has toured widely, lecturing, attending confs.; mem. Govt. of India Sanskrit Comm. and Cen. Sanskrit Board, Indian Acad. of Letters, Fellow, Acad. of Music, Dance and Drama; Hon. corresp. mem. Ecole Française d'Extrême Orient, Austrian Acad. of Sciences; Pres. All-India Oriental Conf., Int. Assen. of Sanskrit Studies 1973; Pres. Int. Assen. of Sanskrit Studies; Hon. D.Litt. (Sanskrit Univ., Banaras); Kane Gold Medal (Bombay Asiatic Soc.) 1963; awarded titles of "Kavikokila" and "Sakalakala-kalapa" by Sankaracharya 1953; "Padma-bhushan" by Govt. of India 1963; Indian Acad. of Letters, Award for the best book on Sanskrit research 1966; Jawaharlal Nehru Fellowship 1969-70; Gold Medal and Membership of Noble Order of St. Martin, Austria 1967; Kalidas Awards by Govts. of Uttar Pradesh and Madya Pradesh for Anarkali 1974-75. Editor Journal of Oriental Research, Madras Music Academy Journal, Samskrita-Pratibha, Samskrita Ranga Annual, Malaya-màruta. *Publications include:* English: Some Concepts of Alankara Sastra 1942, New Catalogus Catalogorum, The Indian Heritage, Sanskrit and Allied Indological Studies in Europe, Yantras or Mechanical Contrivances in Ancient India 1956, Concept of Culture 1971, Seasons in Sanskrit Literature 1972; Tamil: Varalakshmivratam (short stories) 1950, Bharata Natya 1959, Kadaikkadal 1959, Nataka Lakshanaratnakosa 1961, Bhoja's Sringara Prakasa 1963, Patel Lectures: The Great Integrators-Saint-Singers of India 1966, Nrttaratnavali 1968, Seasons in Sanskrit Literature 1972, The Greater Ramayana 1973, Sanskrit and Allied Indian Studies in U.S. 1975, Ramayana in Greater India 1975, Festivals and Pastimes of India 1977; Sanskrit: Rasalila, Kamasuddhi, Manunitichola, Davabandi Varadaraja, Prekshanakatrayi, Vimukti, Valmikipratibha, Natirpuja, Vidyanathavidambana, Anarkali 1974 (poems and plays). *Leisure interests:* music, dance, drama, religions, pilgrimages. *Address:* 7 Srikrishnapuram Street, Royapettah, Madras 14, India. *Telephone:* 841876.

RAGHURAMAIAH, Kotha, M.A., LL.B.; Indian barrister and politician; b. 1912; ed. Lucknow Univ. and the Middle Temple; Legal practice 1937-41; Provincial Judicial Service 1941-51; mem. Lok Sabha 1952-; Deputy Minister of Defence 1957-62; Minister of State in the Ministry of Defence 1962-63; Minister of Defence Production 1962-64, of Supply 1964-65, of Technical Devt., Supply and Social Security 1965-67; Minister of State for Law 1967, Minister of State in Ministry of Petroleum and Chemicals and of Social Welfare 1967-68; Minister of Petroleum and Chemicals 1968-69; Minister of State for Parl. Affairs, Shipping and Transport 1969-71, granted Cabinet status June 1970-March 1971; Minister of Parl. Affairs 1973-76, and of Works and Housing 1974-76; Minister of Tourism and Civil Aviation Dec. 1976-March 1977; mem. Railway Corruption Enquiry Cttee. 1954; Chair. Petitions Cttee., Lok Sabha 1955-57; resigned from Congress Party May 1977. *Address:* 14 Asoka Road, New Delhi; Lok Sabha, New Delhi, India.

RAHAL, Abdel Latif; Algerian diplomatist; b. 14 April 1922, Nedroma; m.; two c.; fmr. teacher; entered govt. service 1962; Dir. of Cabinet, Office of the Presidency 1962; Amb. to France 1963; Sec.-Gen. Ministry of Foreign Affairs 1964-71; Perm. Rep. to UN 1971-77; Minister of Higher Educ. and Scientific Research 1977-79. *Address:* c/o Ministry of Higher Educ. and Scientific Research, 1 rue Attard Bachir, Algiers, Algeria.

RAHIM, Jalaluddin Abdur; Pakistani diplomatist and politician; b. 27 July 1906, Calcutta; s. of late Sir Abdur Rahim; one s.; ed. Trinity Coll., Cambridge and Univ. of Munich; entered Indian Civil Service and served in Madras Presidency 1931; transferred to Finance Dept., Govt. of India 1936; Indian Trade Commr. for Egypt and other Middle Eastern Countries 1945; Chargé d'affaires, Pakistan Embassy, Cairo 1947; Joint Sec., Ministry of Foreign Affairs and Commonwealth Relations 1950; Amb. to Belgium 1952-53; Sec. Ministry of Foreign Affairs and Commonwealth Relations 1953-55; subsequently Amb. to Fed. Repub. of Germany, to Spain and to France; retd. from Govt. Service 1967; founder mem. Pakistan People's Party, Sec.-Gen. Dec. 1969; Minister for Production and Presidential Affairs and also for Commerce 1972-74; detained 1974-77. *Publications:* Special Hajj Enquiry Report 1944, Outline of a Federal Constitution for Pakistan 1969. *Leisure interests:* fine arts, classical Greek, Latin, painting, swimming. *Address:* c/o Pakistan People's Party, Islamabad, Pakistan.

RAHIMTOOLA, Habib Ibrahim, B.A., LL.B., F.R.P.S.; Pakistani diplomatist and politician; b. 10 March 1912; ed. St. Xavier's School and Coll., and Government Law Coll., Bombay; fmr. Dir. over 15 joint stock companies in India; Pres. Fed. of Muslim Chambers of Commerce and Industry, New Delhi 1947-48; Bombay Provincial Muslim Chamber of Commerce 1944-47; Bombay Provincial Muslim League Parl. Bd. for Local Bodies 1945-47; Del. Prime Ministers' Confs. London 1948, 1949, 1951, Commonwealth Conf., S.E. Asia, London 1950, Afro-Asian Conf. Bandung 1955; Leader Pakistan Trade Del. to British East Africa 1956; High Commr. for Pakistan in Great Britain 1947-52; Amb. to France 1952-53; Gov. Sind 1953, Punjab 1954; Minister for Commerce, Cen. Govt. 1954-55, for Commerce and Industries 1955-56; Chair. Karachi Devt. Authority 1958-60, Water Co-ordination Council 1958-60, Pakistan Govt. Shipping Rates Advisory Bd. 1959-71, Pakistan Red Cross 1971-73, Bandenawaz Ltd., Pakistan Oxygen Ltd., United Bank Ltd., Pakistan Chemicals Ltd., Int. Industries Ltd., Pakistan Cables Ltd., Chambon (Pakistan) Ltd., Pakistan-Japan Cultural Assen., Pakistan-Ceylon Assen., Photographic Soc. of Pakistan, Karachi Race Club 1958-70 (Pres. 1970-71). *Address:* "Kulib", B/59, K.D.A. No. 1, Habib I. Rahimtoola Road, Karachi-8, Pakistan.

RAHMA BRAHMAN, Muluktla, B.E., F.I.E.; Indian oil executive; b. 24 Aug. 1912, Peddapuram, Andhra Pradesh; s. of M. P. Dikshitulu and M. Rama Lakshmi; m. Rama Bramam-Kameswari 1929; one s. three d.; ed. Madras Univ.; Supt. Engineer and Engineer-in-Charge, Kandla Port Trust 1950-59; Chief Engineer and Gen. Man., Gauhati Refinery, Assam 1959-65; Man. Dir. Madras Refineries Ltd. 1966-69, Chair. and Man. Dir. 1969-72, Chair. 1972-; Chair. Indian Oil Corpn. Ltd. 1971-73, now Chair. Bongaigaon Refinery and Petrochemicals Ltd.; Fellow Inst.of Engineers (India); Padma Bhushan 1970. *Publications:* technical papers in engineering and other journals in India and abroad. *Leisure interests:* reading and gardening. *Address:* Plot No. 4837, Anna Nager, Madras 600040, India. *Telephone:* 613958.

RAHMAN, Hamood-ur, B.A., LL.B.; Pakistani judge; b. 1 Nov. 1910, Patna, India; s. of late Dr. Daudur Rahman; m. Rabea Ashraf Ali 1941; five s. four d.; ed. St. Xavier's Coll., Calcutta, Univ. of London and Gray's Inn, London; called to the Bar, London 1937; joined Calcutta High Court 1938; Councillor of the Calcutta Corpn. 1940, Deputy Mayor of Calcutta 1943; Jr. Standing Counsel, Province of Bengal 1943-47; appeared for Province of E. Pakistan before Arbitration Tribunal, Delhi, India 1948; Legal Adviser, State Bank of Pakistan, Dacca 1950-53; Advocate-Gen. of E. Pakistan 1953-54; Judge, Dacca High Court 1954-60; Vice-Chancellor, Dacca Univ.

1958-60; mem. Int. Court of Arbitration, The Hague 1959-60; Judge, Supreme Court of Pakistan 1960-68, Chief Justice 1968-76; Chair. Comm. on Students' Problems and Welfare 1964, Law Reforms Comm. 1967, War Inquiry Comm. 1972; UN Cttee. on Crime Prevention and Control 1972, 1973; Chair. Council of Islamic Ideology, Pakistan 1974-77. *Address:* 194 Shadmam, Phase 2, Lahore, Pakistan. *Telephone:* 415139.

RAHMAN, Shaikh Abdur, B.A., M.A.; Pakistani judge; b. 4 June 1903; m. M. Mumtaz Jahan Mohammad Din 1934; three s. one d.; ed. Islamia Coll. Lahore, Govt. Coll. Lahore, and Exeter Coll., Oxford; joined Indian Civil Service ■ Asst. Commr. 1928, later District and Sessions Judge and Legal Remembrancer, Punjab; Acting Judge, Lahore High Court 1946; mem. Bengal Boundary Comm. 1947; Custodian Evacuee Property 1948; Additional Judge, Lahore High Court 1948, Permanent Judge 1948; Vice-Chancellor Punjab Univ. 1950; Acting Chief Justice, Lahore High Court 1954, Chief Justice 1954-55; Chief Justice, West Pakistan High Court 1955-58; Judge, Supreme Court of Pakistan 1958; Chief Justice, Supreme Court of Pakistan 1968 (retd.); Chair. Board for the Advancement of Literature; Vice-Chair. Bazm-i-Iqbal, Lahore; Dir. Inst. of Islamic Culture, Lahore; Hon. LL.D. (Cairo and Punjab Univs.). *Publications:* Tarjuman-i-Asrar (Urdu translation), Hadis-i-Dil (Speeches and lectures in Urdu) 1963, Safar (Urdu poetry) 1964, Punishment of Apostasy in Islam 1972. *Leisure interests:* reading, writing. *Address:* 65 Main Gulberg, Lahore, Pakistan. *Telephone:* 80109.

RAHMAN, Tunku Abdul (*see* Abdul Rahman, Tunku).

RAHMSDORF, Wilhelm; German banker; b. 18 Sept. 1908, Hildesheim; m. Anneliese Knoost 1938; one d. one s.; ed. Realgymnasium, Kassel; Deutsche Reichsbank 1933; Bank deutscher Länder, Frankfurt am Main 1948; Landeszentralbank in Nordrhein-Westfalen, Düsseldorf 1950-56, Vice-Pres. 1962-64; Deutsche Bundesbank, Frankfurt am Main 1957-61; Pres., Landeszentralbank in Niedersachsen, Hanover 1964-76; mem. Board of Dirs., Deutsche Bundesbank, Frankfurt am Main 1964-76; Grosses Bundesverdienstkreuz 1968, mit Stern 1973, Grosses Verdienstkreuz Land Niedersachsen (Lower Saxony) 1976. *Address:* 23 St. Ingbertweg, 3000 Hanover, Federal Republic of Germany.

RAHN, Hermann, PH.D.; American physiologist; b. 5 July 1912, E. Lansing, Mich.; s. of Otto Rahn and Bell S. Farrand Rahn; m. Katharine Wilson 1939; ■■ s. one d.; ed. Cornell and Rochester, New York Univs.; Nat. Research Council Fellow, Harvard Univ. 1938-39; Instructor in Physiology, Univ. of Wyoming 1939-41; Asst. in Physiology, Univ. of Rochester School of Medicine 1941-42, Instructor 1942-46, Asst. Prof. 1946-50, Assoc. Prof. 1950-56; Lawrence D. Bell Prof. of Physiology and Chair. Dept. of Physiology, Univ. of Buffalo (since 1962 State Univ. of New York at Buffalo) 1956-72; Distinguished Prof. of Physiology 1973-; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Pres. American Physiological Soc. 1963-64; mem. Council, Int. Union of Physiological Sciences 1965-74; Vice-Pres. 1971-74; hon. doctorates from Univs. of Paris, Yonsei (Seoul) and Rochester. *Publication:* A Graphical Analysis of the Respiratory Gas Exchange (with W. O. Fenn) 1955, and editor of other volumes. *Address:* Department of Physiology, State University of New York at Buffalo, Buffalo, N.Y. 14214, U.S.A. *Telephone:* 716-831-2619.

RAIKIN, Arkady Isaakovich; Soviet actor-producer; b. 24 Oct. 1911, Riga; ed. Leningrad Ostrovsky Dramatic Inst.; Actor Leningrad Komsomol Theatre 1935-37; Leningrad Novy Theatre 1937-39; founded Leningrad Miniature Theatre 1939; Productions include Around the World in 80 Days 1951, The Seasons of the Year 1956, Love of Three Oranges 1959, From Two is Life 1961, Wizards Live Nearby 1964, Traffic Lights 1969, Selections 73 1973; People's Artist of the U.S.S.R. 1948; Order of Patriotic War, and other decorations. *Address:* Leningrad State Theatre of Miniatures, Leningrad, U.S.S.R.

RAINE, Kathleen Jessie, M.A., F.R.S.L.; British poet; b. 1908; m. Charles Madge (divorced); one s. ■■ d.; ed. Girton Coll., Cambridge; Fellow, Girton Coll., Cambridge 1956-; W. H. Smith Literary Award and other English and American poetry prizes and awards; Blake scholar; Hon. D.Litt. (Leicester) 1974. *Publications:* Stone and Flower 1943, Living in Time 1946, The Pythoness 1949, The Year One 1952, Collected Poems 1956, The Hollow Hill (poems) 1965, Blake and Tradition (Andrew Mellon Lectures) 1969, Selected Writings of Thomas Taylor the Platonist (with George Mills Harper) 1969, William Blake, Selected Poems 1970, The Lost Country (poems) 1971, On ■ Deserted Shore (poems) 1972, Faces of Day and Night 1973, Farewell Happy Fields (autobiog.) 1973, The Land Unknown (autobiog.) 1975, The Oval Portrait (verse) 1977, The Lions Mouth (autobiog.) 1977; criticism: Defending Ancient Springs 1967, Yeats, the Tarot and the Golden Dawn 1973, Death in Life and Life in Death 1973, David Jones and the Actually Loved and Known 1978, From Blake to ■ Vision 1978. *Address:* 47 Paultons Square, London, S.W.3, England.

RAINIER III, His Serene Highness Prince, Louis Henri Maxence Bertrand; Prince of Monaco; b. 31 May 1923; s. of the late Comte Pierre de Polignac and the late Princess Charlotte, Duchess of Valentinois; m. Grace Patricia Kelly (*q.v.*, Grace, H.S.H. Princess) 1956; one s. two d.; ed. Summerfields School, Hastings (England), Montpellier Univ., and Ecole Libre des Sciences Politiques, Paris; Hereditary Prince of Monaco 1944; succeeded his grandfather Prince Louis II 1949; founded Monaco Red Cross 1948, American Friends of Monaco 1952, Prix Rainier 1955, Grand Master Ordre de St. Charles de Monaco, Grand Croix Légion d'honneur, Belgian, Swedish, Greek, Lebanese, Italian, Netherlands and San Marino orders; served in French army ■■ Lieut. and Col. 1944-45. *Address:* Palais de Monaco, Monte Carlo, Principality of Monaco.

RAINWATER, (Leo) James, B.S., M.A., PH.D.; American professor of physics; b. 9 Dec. 1917, Council, Ida.; s. of Leo Jasper Rainwater and Edna Eliza (Teague) Rainwater; m. Emma Louise Smith 1942; three s.; ed. Calif. Inst. of Technology and Columbia Univ., New York; Asst. in Physics, Columbia Univ. 1939-42, Instructor in Physics 1946-47, Asst. Prof. 1947-49, Assoc. Prof. 1949-52, Prof. of Physics 1952-; Scientist Office of Scientific Research and Devt. and Manhattan Project 1942-46; Dir. Nevis Cyclotron Lab. 1951-53, 1956-61; scientific and U.S. Naval research and research contracts with Atomic Energy Comm. and Nat. Science Foundation 1947-; Fellow, American Physical Soc., A.A.A.S., Inst. of Electrical Engineers, New York Acad. of Science; mem. Nat. Acad. of Sciences, Optical Soc. of America; Ernest Orlando Lawrence Physics Award of U.S. Atomic Energy Comm.; Nobel Prize for Physics 1975. *Publications:* numerous articles in Physical Review 1946-, and other professional journals. *Leisure interests:* classical music, environmental and earth sciences, astronomy, air pollution problems. *Address:* Physics Department, Columbia University, New York, N.Y. 10027 (Office); 342 Mt. Hope Boulevard, Hastings-on-Hudson, N.Y. 10706, U.S.A. (Home). *Telephone:* 212-280-3345 (Office); 914-GR8-1368 (Home).

RAISANI, Sardar Ghaus; Pakistani politician; b. 6 Sept. 1924, Kanak, Baluchistan; s. of late Sir Asadullah Khan Raisani; nine s. one d.; ed. Col. Brown Public School, Dehra Dun; commissioned Indian Army 1945, served 1945-48; Chief of his tribe, Baluchistan 1949-; active in politics 1949-; Convenor, Baluchistan State Muslim League; mem. W. Pakistan Assembly 1956-58; Pres. Baluchistan Assembly 1970-72; Leader of the Opposition 1972-74; founder and convenor, Baluchistan United Front 1969; Gov. of Baluchistan 1971-72; Fed. Minister for Food and Agriculture 1972-74; Senior Minister Baluchistan Prov. Cabinet 1974-76; Pres. Pakistan People's Party Baluchistan 1974-77. *Leisure interests:* farming, hunting, angling, hiking. *Address:* 47 Lytton Road, Quetta, Pakistan. *Telephone:* 70661 and 75357.

RAISER, Ludwig, D.IUR., D.THEOL.; German university professor and insurance executive; b. 27 Oct. 1904, Stuttgart; m. Renate Haack 1937; three c.; ed. Eberhard Ludwigs-Gymnasium, Stuttgart, and Univs. of Munich, Geneva and Berlin; mem. Man. Board of insurance firm in Magdeburg 1937-43; Mil. Service 1943-45; Prof. Univ. of Göttingen 1945-51, Rector 1948-50; Pres. German Research Assen., Bad Godesberg 1951-55; Prof. of Civil Law, Trade and Business Law, Univ. of Tübingen 1955-73; mem. German Science Council 1958-65, Chair. 1961-65; mem. Synod Protestant Church, Chair. 1970-73; Chair. Württembergische Feuerversicherung AG, Stuttgart 1975-; Corresp. Fellow, Rheinisch-Westfälische Akad. der Wissenschaften, British Acad.; Hon. D.Phil.; Grosses Bundesverdienstkreuz mit Stern. *Publications:* Die Wirkungen der Wechselerklärungen im Internationalen Privatrecht 1931, Das Recht der Allgemeinen Geschäftsbedingungen 1935, Lehrbuch des Sachenrechts (with M. Wolff) 10th edn. 1957, Die Universität im Staat 1958, Dingliche Anwartschaften 1961, Das Bildungsziel der heutigen Universität 1965, Deutsche Hochschulprobleme im Lichte amerikanischer Erfahrungen 1966, Grundgesetz und Privatrechtsordnung 1967, Die Zukunft des Privatrechts 1971. *Address:* c/o Württembergische Feuerversicherung AG, 7 Stuttgart 1, Johannesstrasse 1-7, Federal Republic of Germany.

RAISMAN, John Michael, B.A.; British petroleum executive; b. 12 Feb. 1929, Lahore, India; s. of Sir Jeremy and Renee Mary (née Kelly) Raisman; m. Evelyn Anne Muirhead 1953; one s. three d.; ed. Rugby School, Queen's Coll. Oxford; joined Shell Int. Petroleum Co. Ltd. 1953, served in Brazil 1953-60; Gen. Man., Shell Panama 1960-62; Asst. to Exploration and Production Co-ordinator, Shell Int. Petroleum, Maatschappij 1963-65; Gen. Man., Shell Co. of

Turkey Ltd. 1965-69; Pres. Shell Sekiyu KK 1970-73; Head of European Supply and Marketing, Maatschappij 1974-77; Man. Dir., Shell U.K. Oil 1977-78; Deputy Chair. and Chief Exec., Shell U.K. Ltd. 1978-. *Leisure interests:* golf, tennis, skiing. *Address:* Shell-Mex House, The Strand, London, WC2R 0DX., England (Office); Netheravon House, Netheravon Road South, Chiswick, London, W4 2PY, England. (Home). *Telephone:* 01-994 3731 (Home); 01-438 3701 (Office).

RAJ, James S.; Indian international civil servant; b. 7 Nov. 1913, Saidapet; s. of Sivaramant Vedakan James and Pushpammal Daniel; m. Hilda Gnanamuthu 1942; one s. one d.; ed. Madras Christian Coll., and Univ. Coll., London; fmr. Lecturer in Econs., Univ. of Rangoon; Indian civil service, Ministries of Food and Agric. 1942-53; Chief of Multiple Currency Practices Div., IMF 1953-56; Alt. Exec. Dir. for India, IMF and IBRD 1956; Dir. Asian Dept., IMF 1956-59; Controller of Stock Exchanges, India 1959-60; Deputy Gen. Man. of Industrial Credit and Investment Corpn. of India 1960-64; Gen. Man. Nigerian Industrial Devt. Bank, Lagos 1964-66; Deputy Exec. Vice-Pres. Int. Finance Corpn. 1966-67, Vice-Pres. 1967-70; Man. Dir. Industrial Investment Trust Ltd., Bombay 1970-72; Chair. Unit Trust of India 1972-76; Chair. Tamilnadu Industrial Investment Corpn. Ltd., Madras 1976-78. *Leisure interests:* stamp collecting, linguistics. *Address:* Flat 32, Sagar Tarang, B. Desai Road, Bombay 400-036, India.

RAJARATNAM, Sinnathamby; Singapore politician; b. 23 Feb. 1915, Ceylon (now Sri Lanka); ed. Raffles Inst., Singapore, King's Coll., London; brought to Malaya at age of six months; Assoc. Editor Singapore Standard 1950-54; Editorial Staff Straits Times 1954-59; mem. Malayanization Cttee. 1955; mem. Minimum Standards of Livelihood Cttee. 1956; Convenor and Founder-mem. of People's Action Party; Assemblyman (now M.P.) for Kampong Glam constituency 1959-; Minister for Culture 1959-65; Minister of Foreign Affairs 1965-, of Labour 1968-71. *Address:* Ministry of Foreign Affairs, 1st Floor, Government Offices, St. Andrew's Road, Singapore 6. *Telephone:* 322142.

RAKOTOARIJAONA, Lieut.-Col. Désiré; Malagasy army officer and politician; b. 1934. Minister of Finance Feb.-June 1975; mem. Supreme Revolutionary Council June 1975-; Prime Minister July 1977-; mem. Front National pour la Défense de la Révolution Socialiste Malgache. *Address:* Office du Premier Ministre, Antananarivo, Madagascar.

RAKOTONIAINA, Justin; Malagasy teacher, diplomatist and politician; b. 1933, Betsileo; fmr. professor of Law, Univ. of Madagascar; Amb. to Algeria, also accred. to Tunisia and Guinea 1973-75; Minister of Nat. Educ. 1975-76; Prime Minister of Madagascar 1976-77; mem. Supreme Revolutionary Council. *Address:* c/o Office du Premier Ministre, Antananarivo, Madagascar.

RAKOWSKI, Mieczysław Franciszek, DR.HIST.; Polish journalist and politician; b. 1 Dec. 1926, Kowalewko; Szubin district; m. Wanda Wilkomirska (*q.v.*) 1952; two s.; ed. Higher School of Social Sciences, Cracow and Inst. of Social Sciences, Warsaw; worked at Cen. Cttee. of Polish United Workers' Party (PUWP) 1949-52, 1955-57; Sub-editor, Polityka 1957, Editor-in-Chief 1958–; Chair. Gen. Board, Polish Journalists' Assen. 1958-61; Deputy mem. Cen. Cttee., PUWP 1964-75, mem. Dec. 1975-; Deputy to Seym 1972-; Presenter, TV programme Świat i Polityka (World and Politics); Order of Banner of Labour 2nd Class, Gold Cross of Merit, Order of Banner of Labour 1st Class 1976, State Prize 2nd Class 1976, and other decorations. *Publications:* NRF z bliska (Fed. Rep. of Germany from ■ Short Distance) 1958, New World 1959, Socjal-demokratyczna Partia Niemiec w okresie powojennym 1949-54 (Social-Democratic Party of Germany in Post-war Period) 1960, Świat na zakręcie (The World in Turning) 1960, Zachód szuka ideologii (The West Looks for Ideology) 1961, Ameryka wielopierowa (Many-storied America), Klimaty RFN (Climates of the Fed. Rep. of Germany), Polityka Zagraniczna PRL (The Foreign Policy of the Polish People's Republic) 1974, Dymisja Kanclerza (Chancellor's Dismissal) 1975; co-author: The Polish Upswing 1971-75 1975. *Address:* Redakcja Polityka, Stanisława Dubois 9, 00-182, Warsaw, Poland. *Telephone:* 38-34-91.

RALLIS, George (see Rhallys, George).

RALPH, Henry A. J.; American diplomatist and banker; b. 1901, San Francisco, Calif.; s. of Francis J. Ralph and Geneive L. Madden; m. Phyllis A. Puckett 1928; three d.; ed. American Inst. of Banking; Vice-Pres. and New York Rep., Bank of America NT & SA 1945, Vice-Pres. and Man. Bank of America, New York 1950, Exec. Officer and Dir. 1958; Vice-Pres. and Dir. Bamerical Int. Financial Corporation 1961; Pres., Chief Exec. Officer and Dir., World Banking Corpn. 1964-67; adviser in banking to U.S. and other govts. 1967-74; Exec. in Residence, Univ. of San Francisco; now Amb. at Large; Hon. Alumnus Columbia Univ. 1963; [illegible] decorations including Sovereign Order of Malta 1956. *Publications:* Consultants' Views on Bank Management (two vols., in Chinese and English), and several papers on banking and management. *Leisure interests:* world travel, ancient civilizations and cultures. *Address:* 5255 Cribari Lane, San Jose, Calif. 95135, U.S.A. *Telephone:* 408-274-5292.

RAM, Dr. Bharat, B.A.; Indian industrialist; b. 5 Oct. 1914; m. Sheila Bharat Ram; three s.; ed. privately and at St. Stephen's Coll., Delhi; joined Delhi Cloth and Gen. Mills Co. 1935, Joint Man. Dir. 1948, Chair. Board of Dirs. 1958-; also Chair. Bengal Potteries, Shriram Bearings, Coromandel Fertilisers 1967-; Indian Airlines 1967-69, Indian Cotton Mills Fed. 1961-63; Pres. Fed. of Indian Chambers of Commerce & Industry 1963-64; Pres. Int. Chamber of Commerce 1969-71, World Council of Man. 1976-; [illegible] Board of Govs., Delhi and Pilani Insts. of Technology; Dir. New India Assurance Co., Escorts, Bajaj Electricals. *Address:* 25 Sarder Patel Road, New Delhi, India.

RAM, Hon. Jagjivan, B.SC.; Indian politician; b. 5 April 1908, Arrah, Bihar; m. Indrani Devi 1935; one s. one d.; ed. Banaras Hindu Univ. and Calcutta Univ. Gen. Sec. All-India Depressed Classes League until 1936, Pres. 1936-46; M.L.C., Bihar 1936, Parl. Sec. 1937-39; formed Bihar Provincial Khet Mazdoor (Agricultural Labour) Sabha 1937; Sec. Bihar Provincial Congress Cttee. 1940-46; Vice-Pres. Bihar Branch All India Trade Union Congress 1940-46; imprisoned for political activities 1940, released on medical grounds 1943; Head, Del., ILO Conf., Geneva, Chair. 33rd Session of Conf. 1950; Chair. Preparatory Asian Region Conf., ILO, New Delhi 1947; Minister of Labour 1946-52 (in Interim Govt. and first Indian Govt.), of Communications 1952-56, for Railways and Transport 1956-57, for Railways 1957-62, of Communication 1962-63, of Transport 1963-64, of Labour and Employment 1966-67, of Food and Agriculture 1967-70, of Defence 1970-74, of Agriculture and Irrigation 1974-77, of Defence March 1977-, Joint Deputy Prime Minister Jan 1979-; Leader of Indian Del. to Asian Labour Ministers' Conf., Manila Nov. 1966, to FAO Conf., Rome 1967, 1974, 1975, The Hague 1970; Pres. Indian Congress 1969-74; Chair. Indian Inst. of Public Admin. 1974-75; mem. Working Cttee. and Cen. Parl. Board, All-India Congress Cttee. 1948-77; resigned from Indian Nat. Congress Party to form Congress for Democracy Party Feb. 1977 (later merged with Janata Party); mem. gov. bodies of several educ. insts.; Hon. D.Sc. (Vikram Univ., Ujjain). *Address:* [illegible] Krishna Menon Marg, New Delhi 110011, India (Home). *Telephone:* 376555 (Home).

RAMA, Carlos M.; Uruguayan writer, lawyer, professor and editor; b. 26 Oct. 1921, Montevideo; s. of Manuel Rama and Carolina Facal; m. Judith Dellepiane 1943; [illegible] s. [illegible] d.; ed. Univ. de la República and Univ. de Paris; Journalist 1940-48, 1972-; Exec. Sec. of Uruguayan Bar Assen. 1940-49; Prof. of Universal History in secondary schools 1944-48; Editor Nuestro Tiempo 1954-56, Gacetilla Austral 1961-73; Prof. of Sociology and Social Research, Prof. of Contemporary History, Prof. of Theory and Methodology of History, Univ. de la República 1950-72; Prof. Universidad Autónoma de Barcelona (Latin American History) 1973-; Pres. PEN Club Latinoamericano [illegible] España; Sec. Gen. Grupo de Estudios Latinoamericanos de Barcelona; Commdr. Order of Liberation (Spain); Officier des Palmes académiques (France). *Publications:* La Historia y la Novela 1947, 1963, 1970, 1974, Las ideas socialistas [illegible] el siglo XIX 1947, 1949, 1963, 1967, 1976, Ensayo de Sociologia Uruguaya 1956, Teoría de la Historia 1959, 1968, 1974, L'Amérique Latine 1959, 1967, Las clases socialies [illegible] el Uruguay 1960, La Crisis española del siglo XX 1960, 1962, 1976, Itinerario español 1961, 1977, Revolución social y fascismo [illegible] el siglo XX 1962, La religión [illegible] el Uruguay 1964, Sociología del Uruguay 1965, 1973, Historia del movimiento obrero y social latinoamericano contemporáneo 1967, 1969, 1976, Los afrouraguayos 1967, 1968, 1969, 1970, Garibaldi y el Uruguay 1968, Uruguay [illegible] Crisis 1969, Sociologia de América Latina 1970, 1977, Chile, mil días entre la revolución y el fascismo 1974. *Leisure interest:* gardening. *Address:* Monte de Orsá 7, Vallvidrera, Barcelona, Spain. *Telephone:* 2124887.

RAMA RAU (*see* Rau).

RAMACHANDRAN, Gopalasamudram Narayana, PH.D., F.R.S., F.R.S.A.; Indian scientist and university professor: b. 8 Oct. 1922, Ernakulam, Kerala State; s. of G. R. Narayana Iyer and Lakshmi Ammal; m. Rajalakshmi Sankaran 1945; two s. one d.; ed. Maharaja's Coll., Ernakulam (Cochin), Indian Inst. of Science, Univs. of Madras and Cambridge; Lecturer in Physics, Indian Inst. of Science 1946-47, Asst. Prof. 1949-52; 1851 Exhbn. Scholar, Univ. of Cambridge 1947-49; Prof. Univ. of Madras 1952-70, and Head,

Dept. of Physics 1952-70; Dean, Faculty of Science 1964-67; Prof. of biophysics, Indian Inst. of Science 1970-; part-time Prof. of Biophysics, Univ. of Chicago 1967-; Fellow, Indian Acad. of Sciences 1950-, mem. Council 1953-70, Sec. 1956-58, Vice-Pres. 1962-64; Dir. U.G.C. Centre of Advanced Study in Biophysics 1962-70; mem. Physical Research Cttee. 1959; mem. Nat. Cttee. for Biophysics 1961-; Fellow, Nat. Inst. of Sciences 1963-; mem. Board of Scientific and Industrial Research, India 1962-65, Council Int. Union of Pure and Applied Biophysics 1969-72, Comm. on Macromolecular Biophysics 1969; Chair. Nat. Cttee. for Crystallography 1963-70; Senior Visiting Prof., Univ. of Michigan 1965-66; Jawaharlal Nehru Fellow 1968-70; Hon. mem. American Soc. of Biological Chem. 1965-; Hon. foreign mem. American Acad. of Arts and Sciences 1970-; Fellow, Royal Soc. of Arts, London 1971-; specialist in optics, crystal physics, X-ray crystallography and biophysics; Ed. Current Science 1950-58, Journal of the Indian Institute of Science 1973-; mem. Editorial Board J. Molecular Biology 1959-66, Biochimica et Biophysica Acta 1965-72, Indian Journal of Pure and Applied Physics 1963-, International Journal of Peptide and Protein Research 1969–, Indian Journal of Biochemistry and Biophysics 1970-, Biopolymers 1973–; Bhatnagar Memorial Prize 1961, Watumull Prize 1964, John Arthur Wilson Award 1967, Meghnad Saha Medal 1971, Ramanujan Medal 1972, J. C. Bose Award (U.G.C.) 1974, (Bose Inst.) 1975. *Publications:* Crystal Optics (in Handbuch der Physik, Vol 25, Berlin), Molecular Structure of Collagen (in International Review of Connective Tissue Research, Vol. I, New York), Conformation of Polypeptides and Proteins, (Advances in Protein Chemistry, Vol. 23), Conformation of Polypeptide Chains (Annual reviews in Biochemistry, Vol. 39), Fourier Methods in Crystallography (New York) 1970, Advanced Methods of Crystallography (Ed.), Aspects of Protein Structure, London (Ed.), Treatise on Collagen (Ed.), two vols.) 1967, Conformation of Biopolymers, Vols. 1 and 2 (Ed.) 1967, Crystallography and Crystal Perfection (Ed.). *Leisure interests:* Indian and Western music, detective fiction. *Address:* Indian Institute of Science, Bangalore 560012 (Office); 5 17A Cross, Mallesworam West, Bangalore 560055, India (Home). *Telephone:* 34411 Ext. 461 (Office).

RAMACHANDRAN, Parthasarathy, M.A.; Indian politician; b. 15 July 1921, Korkai village in Cheyyar, Tamil Nadu; Voohese Coll., Vellore, Pachiayappa's Coll., Madras, Madras Univ.; mem. of Indian Nat. Congress (later Org. Congress) 1940-77; mem. Students Congress 1940-45: Convenor of Youth Congress in Madras 1953-55; lecturer, P.S.G. Arts Coll. in Coimbatore; mem. Tamil Nadu Legislative Assembly for Cheyyar 1957-62, for Peranamallur 1962-67, Chief Whip of Congress Party in Assembly 1957-67, Chair. Estimates Cttee. 1965-67, Vice-Chair. Co-ordinating Cttees. for planning forums set up in various colls. in Tamil Nadu; Sec. Tamil Nadu Org. Congress 1969-72, Pres. 1972-77; Pres. Janata Party in Tamil Nadu May 1977-; mem. Lok Sabha from Madras Cen. March 1977-; Minister for Energy, Govt. of India March 1977–. *Address:* Ministry of Energy, New Delhi; Home: 55-B 7th Cross Street, Shastri Nagar, Madras 600020, India.

RAMACHANDRAN, T. N., F.A.S.; Indian archaeologist; b. 16 March 1903, Mannargudi, Tanjore District, Madras; s. of T. Narayana and Yajwa Visalakshi; m. Dr. Lalita Ramachandran; five s.; ed. Presidency Coll., Madras Univ. and London Univ. Inst. of Archaeology; Curator Archaeological Section, Madras Govt. Museum 1925-35; Asst. Supt. Archaeological Survey of India, Calcutta 1935-38, Supt. 1938-52, Deputy Dir.-Gen. Delhi 1952-53, Joint Dir.-Gen. 1953-58; Special Officer Nagarjunakonda Excavations, Govt. of India Dept. of Archaeology 1958-61; Special Officer for Archaeology, Govt. of Madras 1961-65, for Publs., H.R. & C.E. Dept. 1966-68; Emer. Prof., Asiatic Soc. ICOM; Fellow, Asiatic Soc.; Narasimhacharya Prizeman, Bysany Madhava Gold Medal (Madras Univ.), Lokavedasamanvayakalpataru 1963, Padma Bhushan 1964; mem. Srinamgam Temple Renovation Cttee. 1966-, Cen. Film Censor Board 1967-; Tagore Prof. for Humanities, Madras Univ. 1969-70. *Publications:* include Buddhist Sculptures from Goli 1929, South Indian Metal Images 1932, The Golden Age of Indo-Javanese Art 1933, The Royal Artist Mahendra Varman I 1933, Three Styles of Temple Architecture 1934, Tiruparuttikunram and its temples 1934, Nagarjunakonda 1938, Jaina Monuments of India 1944, Khandagiri and Udayagiri Caves 1950, Nagapattinam Buddhist Bronzes 1954, Archaeological Reconnaissance in Afghanistan 1956, New Light on Indus Culture 1958, Historic India and her temples 1958, Preservation of Monuments 1955, The Great Temple of Tanjore, The Sittannavasal Cave 1962, Is the World Morally Progressing?, Buddhist India and the World, Homage to Vaisali, Asvamedha Sites Near Kalsi, Kiratarjuniya in Indian Art, Temple Inscriptions and Music 1968, Indian Wood Carving 1968, Temples in Madras City 1968, Temples of Orissa and Bundelkhand 1967, Ramasatakan 1968, Deities of Kanchi 1964, Kusumaksharamala 1966, Kalpakavalli-Kapalisvara-Stuti 1966. Thiruvanaikka Temple 1970, Hymn To Mahabalipuram 1970. *Leisure interests:* music, dance and art. *Address:* 2 Third Main Road, Nehrunagar, Adayar, Madras 20, India.

RAMALINGASWAMI, Vulimiri, M.D., D.SC. (OXON.), F.R.C.P.; Indian medical scientist; b. 8 Aug. 1921, Srikakulum, Andhra Pradesh; s. of Shri Gumpaswami and Sundaramma Ramalingaswami; m. Surya Prabha 1947; one s. one d.; ed. Univ. of Oxford, England. Pathologist for Indian Council of Medical Research at the Nutrition Research Labs., Coonor, South India 1947-54; Asst. Sec. and Deputy Dir. Indian Council of Medical Research 1954-57; Prof. of Pathology and Head of Dept., All-India Inst. of Medical Sciences, Ansari Nagar, New Delhi 1957-69, Dir. and Prof. of Pathology 1969-; Jacobson Lecturer, Newcastle-upon-Tyne Univ. 1971, Jaques Parisot Lecturer, WHO 1975, Jawaharlal Nehru Memorial Lecturer 1971; Scholar-in-Residence, Fogarty Int. Centre, Nat. Insts. of Health, Bethesda, Md. 1976; Pres. Indian Assn. for Advancement of Medical Educ. 1974-; Padma Bhushan 1971; Silver Jubilee Research Award, Medical Council of India 1974; Fellow, Indian Acad. of Medical Science 1961, Indian Nat. Science Acad. 1971; Hon. Fellow, American Coll. of Physicians 1970-; Foreign Assoc., Nat. Acad. of Sciences, U.S.A. 1973-; D.Sc. h.c. (Andhra Univ.) 1967; Hon. Dr.Med. (Karolinska Inst.) 1974; Leon Bernard Foundation Award, WHO Geneva 1976; J. C. Bose Medal, Indian Nat. Science Acad. 1977. *Publications:* author and co-author of many papers, articles, lectures, monographs and books. *Leisure interests:* music, literature, sports. *Address:* Director's Bungalow, All-India Institute of Medical Sciences, 698123 Ansari Nagar, New Delhi 110016, India. *Telephone:* 667681-661123/311 (Office); 667723 (Home).

RAMANANTSOA, Maj.-Gen. Gabriel; Malagasy army officer and politician; b. 13 April 1906, Tananarive; ed. Lycée de Tananarive, de Marseille, Ecole Spéciale Militaire, Saint-Cyr, Inst. des Hautes Etudes de Défense Nationale; Asst. to Chief Officer Ecole Mil. Préparatoire des Enfants de Troupe 1932; assigned to Colonial Infantry Regt. of Morocco, French Army 1931, 1935-36; rank of Capt. 1940; returned to Madagascar, organized Ecole Supérieure d'Educ. Physique, Fianarantsoa 1941, 1943-46; Dept. of Colonial Troops, Ministry of Defence, Paris 1946, 1953-59; in charge of War Veterans, Mil. Office of French High Comm., Madagascar 1948-53; served with French Army in Viet-Nam 1953; Lt.-Col., Col. 1959, Brig.-Gen. 1961, Maj.-Gen. 1967; participated in Franco-Malagasy negotiations for independence 1960; Chief of Gen. Staff of the Malagasy Armed Forces 1960-72; Head of Govt., Prime Minister, Minister of Defence, Minister of Planning 1972-75. *Address:* c/o Présidence de la République, Antananarivo, Madagascar.

RAMANATHAN, Kalpathi Ramakrishna, M.A., D.SC.; Indian scientist; b. 28 Feb. 1893, Palghat, Kerala, South India; s. of Ramakrishna Sastry Subbalakshmi; m. Parvatti Ramanathan; two s. four d.; ed. Victoria Coll., Palghat and Presidency Coll., Madras; Demonstrator in Physics, Trivandrum Coll. 1914-21; Hon. Dir. Trivandrum Observatory; Madras Univ. Research Scholar under Prof. C. V. Raman 1921-22; Lecturer in Physics, Univ. Coll., Rangoon 1922-25; joined Indian Meteorological Dept. 1925-48: Dir. Kodaikanal and Bombay Observatories; Supt. Meteorologist, Poona 1939; Dep. Dir.-Gen. of Observatories until 1948; Dir. Physical Research Lab., Ahmedabad 1948-66, Prof. 1967-; Pres. Indian Science Congress, Mathematics and Physics Section, Lahore 1939; Founder Fellow of Indian Acad. of Sciences and of Nat. Inst. of Sciences of India; Pres. Int. Assn. of Meteorology 1951-54, Union of Geodesy and Geophysics 1954-57; Chair. Radio and Telecommunications Research Cttee. 1966-71, Cloud and Rain Physics and Cosmic Ray Research Cttee. 1956-66; Chair. Cen. Board of Geophysics 1957-72; Pres. Int. Ozone Comm. 1959-60, Chair. 1960-67, hon. mem.; Pres. Indian Nat. Cttee. for IQSY (Int. Year of the Quiet Sun); Chair. Indian Nat. Cttee. for Int. Hydrological Decade 1966-74; Chair. Int. Hydrological Programme (fmr. Int. Hydrological Decade) 1974-77; main fields of research: problems of molecular scattering of light in fluids, anisotrophy of molecules, atmospheric and solar radiation, study of the Indian monsoon, general circulation of the atmosphere atmospheric ozone, physics of the ionosphere and aeronomy, problems of ground-water; Hon. Fellow, Royal Meteorological Soc., London 1960; Award of Int. Meteorological Org. 1961; Padma Bhushan 1965, Padma Vibhushan 1976. *Leisure interests:* gardening, cross-country walking. *Address:* Physical Research Laboratory, Navrangpura, Ahmedabad 9, Gujarat, India. *Telephone:* 40242-46.

RAMANUJAM, G.; Indian trade unionist; b. 28 May 1915; Founder-Sec. Tamilnadu Indian Nat. Trade Union Congress; Pres. Indian Nat. Textile Workers Fed. 1956, Indian Nat. Plantation Workers Fed. 1960; Pres. Indian Nat. Trade Union Congress 1958,

1959, Gen. Sec. 1965-78; Man. Editor Indian Worker 1965-78; Dir. Industrial Finance Corpn. 1968-72; Chair. Cotton Corpn. of India, Bombay 1974-76, Workers' Educational Review Cttee. *Publications:* From the Babul Tree, Industrial Relations—A Point of View, The Payment of Bonus Act, The Payment of Gratuity Act. *Address:* c/o Indian National Trade Union Congress, 1-B Maulana Azad Road, New Delhi 110011, India. *Telephone:* 381850.

RAMBERT, Charles Jean Julien; French architect; b. 23 March 1924, Arrigny, Marne; s. of Jean Rambert; m. Françoise Coleda 1949; three s.; ed. Lycée Pierre-Corneille, Rouen, Inst. Saint-Aspais, Melun, and Ecole Nationale Supérieure des Beaux-Arts; Architect 1952-, Govt. registered architect 1953; Prof. of Construction and History of Art, École de secrétariat technique du bâtiment 1957-; Arbitrator-expert, Tribunal de Commerce 1960, and de Grande Instance, Versailles 1963, Cour d'Appel de Paris 1971; Sec. Soc. of Registered Architects 1954-57, Sec.-Gen. 1957, 1st Vice-Pres. 1968; Editor-in-Chief L'Architecture française 1964-75; Counsellor, Ordre des Architectes de Paris 1964, Treas. 1969, Pres. 1976-78; Pres. Cie. des Experts-Architects, Paris 1978; Asst. Dir. of Studies, Ecole Nationale Supérieure des Beaux Arts 1965, Prof. of History of Architecture 1969-; mem. Union Franco-Britannique des Architectes 1969; Fellow, Royal Soc. of Arts 1971; mem. de l'Académie d'Architecture 1978; Officier des Arts et Lettres 1967; Chevalier Légion d'honneur, and other awards. *Publications:* Constructions scolaires et universitaires 1955, L'habitat collectif, Problème urbain 1957, Maisons familiales de plaisance 1959, Magasins 1961, Histoire de l'architecture civile ■ France 1963, French adaptation of World Architecture 1964, Architecture des origines à nos jours 1968, (English translation 1969), L'architecture française 1969, L'architecture occidentale 1974 (Audio-visual series). *Leisure interests:* history of art, literature and painting. *Address:* 35 avenue de Ségur, 75007 Paris; and 48 rue Saint-Didier, 75016 Paris, France. *Telephone:* 783-35-51.

RAMBERT, Dame Marie, D.B.E.; British founder and director of Ballet Rambert; b. 20 Feb. 1888, Warsaw, Poland; m. Ashley Dukes 1918; two d.; ed. studied with Jaques Dalcroze and Enrico Cecchetti; mem. Diaghilev's Ballets Russes 1912; founded Rambert School of Ballet, London 1920; founder and dir. Ballet Rambert 1926 (reformed ■ Modern Dance Co. 1966); founded Ballet Club at Mercury Theatre, London 1930; wartime tours at home and abroad with CEMA/ENSA; teacher of Frederick Ashton, Antony Tudor, Norman Morrice and other well-known choreographers; co. has appeared in Australia, New Zealand, China, Lebanon, U.S.A., Canada, Belgium, France, Italy, Spain, Germany, Denmark, Finland, Poland, Malta, Austria, Greece, Iran and Cyprus; regular tours in Britain. London seasons at Sadler's Wells, Young Vic, Phoenix, Duchess, Lyric and King's (Hammersmith), Stoll, Duke of York's, Arts Theatre 1926-73; Dir. Mercury Theatre Trust Ltd. (controlling Ballet Rambert); mem. Grand Council Imp. Soc. of Teachers; Fellow and Vice-Pres., Royal Acad. of Dancing; Fellow, Royal Soc. of Arts; Hon. D.Litt. (Sussex) 1964; Queen Elizabeth II Coronation Award (Royal Acad. of Dancing) 1956; Légion d'honneur 1957; Dip. Assoc. Manchester Coll. of Art 1960; Jubilee Medal 1977, Composers' Guild of Great Britain Award for services to British Music 1978. *Publications:* Quicksilver (autobiography 1972; trans. Sizova's Ulanova—Her Childhood and Schooldays 1962; co-author (with Mary Clarke) Dancers of Mercury—The Story of the Ballet Rambert 1960. *Address:* Mercury Theatre Trust Limited, 94 Chiswick High Road, London, W.4, England. *Telephone:* 01-995 4246.

RAMEY, James Thomas, A.B., LL.B.; American energy adviser; b. 5 Dec. 1914; ed. Amherst Coll. and Columbia Univ. School of Law; Tennessee Valley Authority 1941-47; Asst. Gen. Counsel, Atomic Energy Comm. 1947-52, Asst. Manager, Chicago Operations Office, AEC 1952-56; Exec. Dir., Joint Congressional Cttee. on Atomic Energy 1956-62; Commr. U.S. Atomic Energy Comm. 1962-73; Consultant Joint Cttee. on Atomic Energy 1973-74; Professorial Lecturer George Washington Univ. 1974-76; Vice-Pres. Stone & Webster Engineering Corpn. 1974-; Dir. American Nuclear Energy Council 1975-, American Nuclear Society 1976-79. *Address:* Stone and Webster Engineering Corporation, 7315 Wisconsin Avenue, Bethesda, Md. 20014; 6817 Hillmead Road, Bethesda, Md., U.S.A.

RAMGOOLAM, Rt. Hon. Sir Seewoosagur, Kt., G.C.M.G., L.R.C.P., M.R.C.S., M.L.A.; Mauritian physician and politician; b. 18 Sept. 1900, Belle Rive; m.; two c.; ed. Royal Coll., Mauritius and Univ. Coll., London; Municipal Councillor 1940-53, 1956; Deputy Mayor of Port Louis 1956, Mayor 1958; mem. Legislative Council for Pamplemousse-Rivière du Rempart 1948-59, for Triolet 1959, for Pamplemousses Triolet 1967-, mem. Exec. Council 1948-53; Liaison Officer for Educ. 1951-56; Ministerial Sec. to the Treasury 1958; Leader of the House 1960-; Minister of Finance 1960-72; Chief Minister 1961-65, Premier 1965-68, Prime Minister 1968-, Minister of Defence, Internal Security, Informaiton and Broadcasting 1969–, of Foreign Affairs 1974-76, of Reform. Institutions and Communications 1976-; Pres. OAU 1976-77; Vice-Pres. Afro-Arab Summit 1977; Chair. Board of Dirs. Advance (daily); Pres. Indian Cultural Assn.; Editor Indian Cultural Review; Hon. mem. African Psychiatric Assn. 1970-; Fellow, Univ. Coll. 1971; Hon. Fellow All-Indian Inst. of Medical Sciences 1979; Labour Dr. h.c. (Univs. of New Delhi, Aix en Provence) Medaille de l'Assemblée nationale française 1971; orders include Grand Croix de l'Ordre du Mérite de la République Centrafricaine 1973, Grand Croix, Ordre national de Lion de la République du Sénégal 1973, grand Coix national de Bénin 1973, Grand Officier, Légion d'honneur de la République Française 1973, Order of Merit, Fed. Repub. of Germany 1978; UN Prize for Outstanding Achievements in the field of Human Rights 1973. *Address:* Government House, Port Louis; 85 Desforges Street, Port Louis, Mauritius (Residence). *Telephone:* 011001 (Office); 080460 (Residence).

RAMIREZ VÁZQUEZ, Pedro; Mexican architect; b. 16 April 1919, Mexico; s. of Dolores Vázquez and Max Ramírez; m. Olga Campuzano 1947; two s. two d.; ed. Univ. Nacional Autónoma de México; Prof. of Design and City Planning, Nat. School of Architecture, Univ. Nacional Autónoma de México; Sec. of Human Settlements and Public Works of Mexican Government; Past Pres. Soc. of Mexican Architects and Nat. Coll. of Architects of Mexico; Chair. Organizing Cttee., Games of XIX Olympiad; Grand Prix of Twelfth Milan Triennial for prefabricated rural school project; Gold Medal, Eighth São Paulo Biennial for Nat. Museum of Anthropology, Mexico City. *Major works include:* co-author of design for Nat. School of Medicine, University City; plans for several cities in Mexico; numerous prefabricated schools in Mexico (also used in S. America, Europe and Asia); buildings in Mexico City of Secr. of Labour, Nat. Labour Conciliation Board, Nat. Inst. for Protection of Infancy, Secr. of Foreign Affairs, and Aztec Stadium; Mexican pavilions at Brussels, Seattle and New York World Fairs; museums of Ciudad Juarez and Mexico City; Nat. Gallery of History and Nat. Gallery of Modern Art, Mexico City; Nat. Museum of Anthropology, Mexico City; Basilica of Guadalupe, Mexico City; Japanese Embassy, Mexico City. *Leisure interest:* industrial design and design of lead glass objects. *Address:* Avenida de las Fuentes 170, México 20, D.F., Mexico. *Telephone:* 595-4388.

RAMO, Simon, B.S., PH.D.; American engineering executive; b. 7 May 1913, Salt Lake City, Utah; s. of Benjamin and Clara (née Trestman) Ramo; m. Virginia May Smith 1937; two s.; ed. Univ. of Utah and Calif. Inst. of Technology; with Gen. Electric Co., Schenectady 1936-46; Lecturer, Union Coll. 1941-46; Dir. Research Electronics Dept., Guided Missiles Research and Devt., Vice-Pres. and Dir. of Operations, Hughes Aircraft Co., Culver City 1946-53; Exec. Vice-Pres., Dir., Ramo-Wooldridge Corpn., L.A. 1953-58; Pres. Space Technology Laboratories Div. Ramo-Wooldridge Corpn. 1957-58; Scientific Dir. U.S.A.F. Ballistic Missiles Programme 1954-58; Dir. TRW Inc. 1954-, Exec. Vice-Pres. 1958-61, Vice-Chair. 1961-, Chair. Exec. Cttee. 1969-; research Assoc. Calif. Inst. of Technology 1946, Visiting Prof. 1978-; mem. White House Energy Research and Devt. Advisory Council 1973-75; mem. U.S. State Dept. Cttee. on Science and Foreign Affairs 1973-75; Chair. President's Cttee. on Science and Tech. 1976-77; mem. Advisory Council to Sec. of Commerce 1976-77; Dir. Union Bancorp Inc., Union Bank, Times Mirror Co., U.S. Chamber of Commerce; Trustee, Calif. Inst. of Technology, American Museum of Electricity; Consultant, President's Science Advisory Cttee.; Fellow, American Physical Soc., Inst. of Aeronautics and Astronautics, American Acad. of Arts and Sciences, American Assn. for the Advancement of Science, American Astronautical Soc., Inst. for the Advancement of Eng., Inst. of Electrical and Electronic Engineers; Founder mem. Nat. Acad. of Eng.; mem. Nat. Acad. of Sciences 1973, Int. Acad. of Astronautics, American Philosophical Soc., Sr. Executives Advisory Council, Nat. Industrial conf. Board, Advisory Council on Japan/U.S. Econ. Relations, U.S. Chamber of Commerce Council on Trends and Perspective; Hon. D.Sc., D.Eng., LL.D., and numerous other awards. *Publications:* Fields and Waves in Modern Radio (with J. R. Whinnery) 1944, 1953, Introduction to Microwaves 1945, Fields and Waves in Communication Electronics (with J. R. Whinnery and Theodore Van Duzer) 1965, Cure for Chaos 1969, Century of Mismatch 1970, Extraordinary Tennis for the Ordinary Player 1970, The Islands of E, Cono & My 1973, etc. *Leisure interests:* tennis, the violin. *Address:* One Space Park, Redondo Beach, Calif. 90278, U.S.A. (Office).

RAMPAL, Jean-Pierre Louis; French flautist; b. 7 Jan. 1922, Marseille; m. Françoise-Anne Bacqueyrisse 1947; one s. one d.; ed. Univ. de Marseille; world-wide tours 1945-; participant in major festivals in Rio de Janeiro, Aix, Menton, Salzburg, Edinburgh,

Prague, Athens, Zagreb, Granada, Tokyo, etc.; Editor for Ancient and Classical Music, Int. Music Co., New York City 1958-; Prof. Conservatoire Nat. de Musique de Paris; mem. French Musicological Soc.; Pres. Asscn. Musique et Musiciens 1974-; Chevalier Légion d'honneur; Chevalier de l'Ordre des Arts et Lettres de France; Grand Prix du Disque 1954, 1956, 1959, 1960, 1961, 1963, 1964, 1978; Oscar du Premier Virtuose Français 1956, Prix Edison 1969, Léonie Sonning Danish Music Prize 1978. *Publication:* La Flute 1978. *Leisure interests:* tennis, deep-sea diving, movie-making. *Address:* 15 avenue Mozart, 75016 Paris, France. *Telephone:* 524-39-74.

RAMPHAL, Shridath Surendranath, Kt., C.M.G., Q.C., S.C., LL.M.; Guyanese barrister, politician and international official; b. 3 Oct. 1928, New Amsterdam; s. of James I. Ramphal and Grace Ramphal (née Abdool); m. Lois Winifred King 1951; two s. two d.; ed. Queen's Coll., Georgetown, King's Coll., London, Harvard Law School; Crown Counsel, British Guiana 1953-54; Asst. to Attorney-Gen. 1954-56; Legal Draftsman 1956-58; Solicitor-Gen. 1956-61; First Legal Draftsman, West Indies 1958-59; Asst. Attorney-Gen., West Indies 1961-62; Attorney-Gen., Guyana 1965-73; mem. Nat. Assembly 1965-75; Minister of State for External Affairs 1966-72, Minister of Foreign Affairs 1972-75, of Justice 1973-75; Commonwealth Sec.-Gen. 1975-(80); Senior Counsel, Guyana 1966; mem. Council for Legal Educ., Univ., of the West Indies, Hon. Advisory Cttee. Centre for Int. Studies, New York Univ., Int. Comm. of Jurists, Board of Vienna Inst. of Devt., Int. Hon. Cttee. Dag Hammarskjold Foundation, Governing Body, Inst. of Devt. Studies, Sussex Univ., Ind. Comm. on Int. Devt. Issues 1977-; Hon. LL.D. (Panjab Univ.) 1975, (Southampton) 1976, (Univ. of the West Indies) 1978, (St. Xavier Univ. Halifax, Canada) 1978; Arden and Atkin Prize, Gray's Inn 1952; John Simon Guggenheim Fellowship 1962; Order of the Repub. (Egypt) 1973; Grand Cross, Order of the Sun (Peru) 1974; Grand Cross, Order of Merit (Ecuador) 1974. *Publications:* contributions in journals of legal, political and international affairs, including International and Comparative Law Quarterly, Caribbean Quarterly, Public Law, Guyana Journal, The Round Table, Royal Society of Arts Journal, Foreign Policy. *Leisure interests:* boating, shooting, cooking. *Address:* Commonwealth Secretariat, Marlborough House, Pall Mall, London, SW1Y 5HX, England. *Telephone:* 01-839 3411.

RAMPHUL, Radha Krishna; Mauritian diplomatist; b. 4 Jan. 1926, Curepipe; s. of Pundit Sookdev Ramphul and Rhikya Ramvarain; m. Leela Devi Lallah 1950; one s. one d.; ed. London School of Econs., and Lincoln's Inn, London; Co. Sec. and Man. Sugar Estates 1946-50; helped organize Field Workers Trade Union 1945-50; Dir. private firm in London 1955-69; Perm. Rep. to UN 1969-; Rep. UN Comm. on Human Rights 1971-73, Preparatory Cttee. of Human Environment 1971, First and Second UN Decade, various confs. and all UN confs. on Laws of the Sea, Review Conf. Nuclear Weapons Non-Proliferation Treaty (Geneva, May 1975); Chair. African Group 1970-73, Dec. 1976; Vice-Chair. Gen. Assembly, 25th session 1970; Vice-Chair. Law of the Sea Cttee.; Vice-Chair. Political and Security Cttee., 26th session 1971, Chair. 27th session 1972; Chair. of UN Comm. on Human Rights, 29th session 1973; Vice-Chair. Review Conf. Nuclear Weapons Non-Proliferation Treaty 1975; Rep. of Chair. Org. of African Unity at UN 1976-77; Chief Rep. of Mauritius to UN Security Council 1976 (Pres. Dec. 1977); mem. Indian Cultural Asscn., Int. Cultural Exchange, World Asscn. of World Federalists, Nat. Trust of U.K., Smithsonian Inst., U.S., World Wild Life Soc.; Officier de l'Ordre du Mérite Centrafricain, Officier de l'Ordre national du Lion. *Leisure interests:* chess, golf, riding, shooting, fishing, tennis, swimming, reading, wildlife. *Address:* Permanent Mission of Mauritius to United Nations, 820 Second Avenue, 15th Floor, New York, N.Y. 10017, U.S.A.

RAMPTON, Calvin L., LL.B.; American lawyer and politician; b. 6 Nov. 1913, Bountiful, Utah; m. Lucybeth Cardon; two s. two d.; ed. Davis High School, Univ. of Utah, and George Washington Univ., Washington, D.C. Administrative Asst. to Congressman J. W. Robinson 1936-38; County Attorney, Davis County, Utah 1939-40; Asst. Attorney-Gen. of Utah 1941, 1946-48; U.S. Army, Second World War; U.S. Supreme Court 1946-; Gov. of Utah 1965-77; Democrat. *Leisure interests:* golf, reading, watching sports. *Address:* 1270 Fairfax Road, Salt Lake City, Utah 84103, U.S.A. *Telephone:* 363-1270.

RAMSBOTHAM, Hon. Sir Peter (Edward), G.C.M.G., G.C.V.O.; British diplomatist and administrator; b. 8 Oct. 1919, London; s. of 1st Viscount Soulbury; m. Frances Blomfield 1941; two s. one d.; ed. Eton Coll. and Magdalen Coll., Oxford; entered diplomatic service 1948; served in Political Div., Allied Control Comm., Berlin 1948-50; First Sec., Foreign Office 1950-53; mem. U.K. del. to UN, New York 1953-57; Foreign Office 1957-63; Head of Chancery, British Embassy, Paris 1963-67; Foreign Office 1967-69; High Commr. to Cyprus 1969-71; Amb. to Iran 1971-74, to U.S.A. 1974-77; Gov. and C.-in-C. of Bermuda 1977-; Hon. LL.D. (Akron Univ.) 1975, (William and Mary Coll.) 1975, (maryland Univ.) 1976, (Yale Univ.) 1977; Croix de guerre 1945, K.St.J. 1976. *Leisure interests:* bird-watching, fishing. *Address:* Government House, Bermuda (Office); East Lane, Ovington, Alresford, Hants, England (Home). *Telephone:* Alresford 2515 (Home).

RAMSEY, Norman Foster, Jr., M.A., PH.D., D.SC.; American scientist; b. 27 Aug. 1915, Washington, D.C.; s. of Brigadier-Gen. and Mrs. Norman F. Ramsey; m. Elinor Steadman Jameson 1940; four d.; ed. Columbia, Harvard and Cambridge Univs.; Assoc. Univ. of Illinois 1940-42; Asst. Prof. Columbia Univ. 1942-46; Research Assoc. M.I.T. Radiation Lab. 1940-43; Expert Consultant to Sec. of War 1942-45; Group Leader and Asscn. Division Head, Los Alamos Lab. of Atomic Energy Project 1943-45; Chief Scientist of Atomic Energy Lab., Tinian 1945; Assoc. Prof. Columbia Univ. 1945-47; Head Physics Dept., Brookhaven Nat. Lab. 1946-47; Assoc. Prof. Harvard Univ. 1947-50; Dir. Harvard Nuclear Lab. 1948-50 and 1952-53; Air Force Scientific Advisory Cttee. 1947-55; Dept. Defence Panel on Atomic Energy 1953-58; Prof. of Physics, Harvard Univ. 1950-; Higgins Prof. of Physics, Harvard Univ. 1966-; Scientific Adviser NATO 1958-59; Gen. Advisory Cttee., Atomic Energy Comm. 1960-72; Dir. Varian Associates 1963-66; Pres. Univs. Research Asscn. 1966-; Eastman Prof. Oxford Univ. 1973-74; Vice-Pres. American Physical Soc. 1977 (Pres. 1978); Chair Physics Div. American Asscn. for Advancement of Science 1977; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc.; Trustee, Carnegie Endowment for Int. Peace 1962- and the Rockefeller Univ. 1976-; Hon. D.Sc. (Case Western Reserve Univ.) 1968, (Middlebury Coll.) 1969, (Oxford Univ.) 1973; Presidential Order of Merit, Lawrence Award 1960, Davisson-Germer prize 1974. *Publications:* Nuclear Moments 1953, Nuclear Two-Body Problems 1953, Molecular Beans 1955, Quick Calculus 1965; and numerous articles in the Physical Review. *Leisure interests:* skiing, walking, sailing, swimming, tennis, reading, conversaton, music. *Address:* Lyman Physics Laboratory, Harvard University, Cambridge, Mass. 02178; and 55 Scott Road, Belmont, Mass. 02178, U.S.A. *Telephone:* 617-495-2864.

RAMSEY OF CANTERBURY, Baron (Life Peer), cr. 1974, of Canterbury in the County of Kent; **Rt. Rev. and Rt. Hon. (Arthur) Michael Ramsey,** D.D.; British ecclesiastic; b. 14 Nov. 1904, Cambridge; s. of late Arthur Stanley Ramsey, Fellow and sometime Pres. of Magdalene Coll., Cambridge; m. Joan Hamilton 1942; ed. Repton School, Magdalene coll., cambridge, and Cuddesdon Theological Coll.; Curate Liverpool Parish Church 1928-30; sub-Warden of Lincoln Theological Coll. 1930-36; Lecturer, Boston Parish Church 1936-38; Vicar, St. Benedict, Cambridge 1939-40; Canon, Durham Cathedral, and Van Mildert Prof. of Divinity, Univ. of Durham 1940-50; Regius Prof. of Divinity, Univ. of Cambridge 1950-52; Lord Bishop of Durham 1952-56; Archbishop of York 1956-61, of Canterbury 1961-74; Pres. World Council of Churches 1962-68; Hon. Fellow Magdalene Coll., Cambridge, Merton Coll., Oxford; Hon. D.C.L. (Oxford, Nashotah House, Wis., and Kent); Hon. S.T.D. (New York and Columbia); Hon. LL.D. (Univ. of Canterbury, New Zealand); Hon. D.D. (Cambridge, Edinburgh, Durham, Leeds, Hull, Manchester, London, Huron Coll., Trinity Coll., Toronto, King's Coll., Halifax, Pacific Lutheran Univ., Episcopal Theological School, Cambridge, U.S.A., and Virginia Theological Seminary); Hon. Dr. of Laws (los Angeles Occidental Coll.); Dr. h.c. (Inst. Catholique, Paris), D.Litt. (Newfoundland and Keele), D.Hum.Litt. (Woodstock Coll., N.Y.); D.Theol. (Salamanca). *Publications:* The Gospel and the Catholic Church 1936, The Resurrection of Christ 1945, The Glory of God and the Transfiguration of Christ 1949, F. D. Maurice and the Conflicts of Modern Theology 1951, Durham Essays and Addresses 1956, From Gore to Temple 1960, Introducing the Christian Faith 1961, Canterbury Essays and Addresses 1964, Sacred and Secular 1965, God, Christ and the World 1969, The Christian Priest Today 1972, Canterbury Pilgrim 1974, Holy Spirit 1977. *Address:* 16 South Baily, Durham, England.

RANA, Damodar Shumshere Jung Bahadur, B.A.; Nepalese social worker and politician; b. July 1928, Palpa Tansen; s. of Lieut.-Gen. Madhab Shumshere J. B. Rana and Madhubi Kumari Rana; m. Bina Rana 1956; three s. one d.; ed. Missionary School, Darjeeling, Central Hindu School, Banaras and Banaras Hindu Univ.; Exec. mem. social orgs. in Nepal 1954-60; Chief Admin. Morang District 1961; Chair. Special Comm. Kosi Zone 1961, Commr. 1962-64; mem. Nat. Panchayat, mem. Exec. Cttee. and Foreign Affairs Cttee.; Amb. to the U.S.S.R. 1964-70, concurrently

to Poland, Hungary and Czechoslovakia; Zonal Commr., Janakpur Zone 1970-71; Minister for Land Reform, Law and Justice 1978-79; Minister of State for Defence April 1979-; awarded Prabala Gorkha Dakchina Bahu and Subikhyat Trisakti Patt. *Address:* Phohara Durbar, Kathmandu, Nepal. *Telephone:* 11274.

RANASINHA, Sir Arthur Godwin, C.M.G., C.B.E.; Sri Lanka civil servant, banker and diplomatist; b. 24 June 1898, Colombo; s. of W. P. Ranasinha; m. Annette Hilda de Alwis (died 1968); one s. (deceased) two d.; ed. St. Thomas' Coll., Colombo and Trinity Hall, Cambridge; Magistrate, Point Pedro, Balapitiya, Jaffna 1923-28; District Judge, Avissawella 1928-30, Badulla 1930-32; Sec. to Minister of Agric. and Lands 1933-36; Public Trustee 1936-44; Custodian of Enemy Property 1939-44; Supt. of Census 1944-46; Sec. to Vice-Chair Board of Ministers of his political Mission to London 1945; Land Commr. 1946-47; Perm. Sec. Ministry of Agric. and Lands 1947-50; Sec. to Cabinet and Deputy Sec. to the Treasury 1950; Chair. and Leader of Ceylon Del. to Commonwealth Consultative Cttee. on Colombo Plan 1950-51; Perm. Sec. Ministry of Finance, Sec. to the Treasury and Sec. to the Cabinet 1950-54; Gov. Central Bank 1954-59; Amb. to Italy, and concurrently Greece and Israel 1959-61; Chair. People's Bank Comm., Taxation enquiry Comm., Tea Comm. 1966-68; Kt., Grand Cross of Order of Merit of Italy 1961. *Publications:* General Report on the Census of Ceylon 1946, Memories and Musings 1972. *Leisure interests:* chess, racing, writing. *Address:* 99/1 Rosemead Place, Colombo 7, Sri Lanka. *Telephone:* Colombo 92067.

RANDALL, Sir John Turton, Kt, D.SC., F.R.S.; British biophysicist; b. 23 March 1905, Newton-le-Willows, Lancs.; s. of late Sidney and Hannah Cawley Randall; m. Doris Duckworth 1928; one s.; ed. Univ. of Manchester; Research Staff of G.E.C. Ltd. Wembley 1926-37; Warren Research Fellow of Royal Society in Univ. of Birmingham 1937-43; Temporary Lecturer Cavendish Lab. Cambridge 1943-44; Prof. of Natural Philosophy in Univ. of St. Andrews 1944-46; Wheatstone Prof. of Physics in univ. of London (King's Coll.) 1946-61, Prof. of Biophysics 1961-70, Emer. Prof.; Dir. Medical Research Council, Biophysics Unit, King's Coll. 1947-70, Chair. School of Biological Science 1963-69; Hon. Prof. Univ. of Edinburgh 1970-; several awards. *Publications:* The Diffraction of X-rays by Amorphous Solids and Liquids 1934, The Nature and Structure of Collagen (Editor) 1953, etc. *Address:* University of Edinburgh, Department of Zoology, West Mains Road, Edinburgh EH9 3JT, Scotland. *Telephone:* 031-667-1081, Ext. 3203 (Office); 031-663-8019.

RANDALL, Michael Bennett; British freelance jounalist; b. 12 Aug. 1919; ed. St. Peter's School, Seaford, and Canford School; Asst. Editor, Sunday Chronicle 1952-53; Editor Sunday Graphic 1953; Asst. Editor Daily Mirror 1953-56; Asst. Editor News Chronicle 1956-57; Asst. Editor Daily Mail 1957-61, Deputy Editor 1961-63, Editor 1963-66; Man. Editor (News) Sunday Times 1967-72, Senior Man. Editor 1972-78; Hannen Swaffer Award as Journalist of 1965-66. *Address:* Keepers, Chailey, Sussex, England.

RANDERS, Gunnar, M.S.; Norwegian physicist; b. 28 April 1914, Oslo; s. of Gunnar and Lubba Randers (née Brodtkorb); m. Engelke R. Koren 1939; two s. one d.; ed. Oslo Univ.; Research Fellow, Mount Wilson Observatory, California 1939-40; Instructor, Univ. of Chicago 1940-42; Captain, Norwegian Army and Scientific Officer, British Ministry of Supply 1942-45; Dir. Astrophysics Inst., Oslo Univ. 1946-47; chief scientist, Norwegian Defence Research Establishment 1947-51; Dir. Dutch-Norwegian Joint Establishment for Nuclear Energy Research 1951-59; exec. Vice-Pres. European Atomic Energy Society 1954-56; Chair. Norwegian Atomic Energy Council 1955-68; Man. Dir. Inst. for Atomenergi, Kjeller 1948-71; special adviser on atomic energy matters to the Sec.-Gen. of the U.N. 1954; Scientific Adviser to Dir.-Gen. Int. Atomic Energy Agency, Vienna 1958, Gov. 1960; Dir. American Nuclear Society 1955-57; Chair. Norwegian Agency for Int. Devt. 1963-68; Pres. European Atomic Energy Soc. 1966-67; Asst. Sec.-Gen. NATO 1968-74; Pres. Scandpower Inc., Oslo and Washington, D.C. 1976–; Visiting Investigator, Woods Hole Oceanographical Inst., U.S.A.; European Consultant for Bechtel Int. Inc.; mem. Royal Astronomical Soc., Norwegian Acad. of Science; Commdr. Norwegian Order of St. Olav, and Netherlands Orders of Orange-Nassau and House of Orange, Commdr. Finland's White Rose, and Sweden's Vasa Order, Commdr. Yugoslav Flag Order, Commdr. Order of Dannebrog. *Publications:* Atom Energy 1946, Atoms and Common Sense 1950, Reactor Reactors and Bombs 1968, Lightyears 1975. *Address:* Trosterudstien 4, Oslow 3, Norway. *Telephone:* Oslo 147210.

RANDOLPH, Denys, B.SC., C.ENG., F.B.I.M., F.R.S.A.; British company executive; b. 6 Feb. 1926, Ealing, London; s. of Harry Beckham Randolph and Margaret Randolph; m. Marjorie Hales 1951; two d.; ed. Saint Paul's School, Hammersmith, Queen's Univ., Belfast, mil. service, Royal Engineers 1944-48; postgraduate apprenticeship 1952-54; Exec. Dir. Graviner Ltd. 1964-65, Wilkinson Sword (Int.) Ltd. 1965-66; Man. Dir. Hand Tools Div., Wilkinson Sword Ltd. 1966-69, Group Man. Dir. 1970-71, Chair, and Man. Dir. 1971-72, Chair. Wilkinson Sword Ltd. 1972-; Chair. Graviner Ltd. 1969-; Exec. Deputy Chair. British Match Corpn. (now Wilkinson Match Ltd.) 1973-75, Chair. Wilkinson Match Ltd. 1976-; Dir. duport Ltd. 1975-; Chair. Inst. of Dirs. 1976-; now also mem. Council, CBI; mem. Board, Man. Research Groups; Gov. Admin. Staff Coll., Henley; mem. Industrial Panel, Duke of Edinburgh's Award Scheme; Master, Worshipful Co. of Scientific Instrument Makers; Liveryman, Worshipful Co. of Cutlers; mem. Royal Aeronautical Soc.; Fellow, Inst. of Production Eng., Royal Horticultural Soc. *Publication:* From Rapiers to Razor Blades: the Development of the Light Metals Industry. *Leisure interests:* yachting, golf. *Address:* Wilkinson Match Ltd., 13 Stanhope Gate, Park Lane, London, W.1; The Cottages, Rush Court, Wallingford, Oxon. 10 8LJ, England. *Telephone:* 01-499 8666 (Office); 0491-36586 (Home).

RANDOLPH, Jennings, A.B.; American educator, executive and politician; b. 8 March 1902, Salem, W. Va.; s. of Ernest and Idell (née Bingman) Randolph; m. Mary Katherine Babb 1933; two s.; ed. Salem Coll.; Assoc. Editor West Virginia Review 1925; Dir. Dept. of Public Speaking and Journalism, Dir. Athletics, Davis and Elkins Coll. 1926-32; Prof. of Public Speaking, South eastern Univ. 1936; mem. U.S. House of Reps. 1933-47; Asst. to Pres. and Dir. of Public Relations, Capital Airlines; Dean Coll. of Business and Financial Admin., Southeastern Univ.; U.S. Senator from West Virginia 1958-; mem. numerous Dels. including British-American Parl. Conf., Bermuda 1977; several honorary degrees; Democrat. *Leisure interest:* sports. *Address:* 5121 Dirksen Senate Office Building, Washington, D.C. 20510 (Office); 4608 Reservoir Road, N.W., Washington, D.C. 20007, U.S.A. (Office).

RANK, Sir Benjamin Keith, Kt., C.M.G., M.B., M.S., L.R.C.P., F.R.C.S., F.R.A.C.S., F.A.C.S.; Australian surgeon; b. 14 Jan. 1911, Heidelberg, Victoria; m. Barbara Lyle Facy 1938; one s. three d.; ed. Melbourne Univ.; war service 1939-46 (Lieut.-Col.); Hon. Plastic Surgeon, Royal Melbourne Hosp. 1946-66, Consulting Surgeon 1966-, Chair. Board of Postgraduate Educ. 1968-75, Medical Adviser to Board of Man. 1971-75; Consulting Plastic Surgeon to Dept. of Repatriation, also to Queen Victoria Hosp. and Royal Victorian Eye and Ear Hosp.; Chief Reparative Surgeon, Peter MacCallum Clinic 1964-; Chair. Cttee. of Man., Victorian Plastic Surgery Unit, Preston and Northcote Community Hosp.- Visiting Prof. Harvard Univ. 1976; Pres. British Assen. of Plastic Surgeons 1965; Pres. Royal Australasian Coll. of Surgeons 1966-68, Syme Orator 1976, Stawell Orator 1977; Foundation Chair. Australian Coll. of Speech Therapy, Hon. Fellow 1965; Hon. Fellow, Royal Coll. of Surgeons of Canada 1969, of Edinburgh 1973. *Publications:* Surgery of Repair as Applied to Hand Injuries (co-author) 1963, Jerry Moore and Some of His Contemporaries 1975; more than 40 papers in British, American and Australian journals. *Address:* "Mill Hill", Vine Street, Heidelberg, Victoria 3084, Australia (Home). *Telephone:* 347-1107 and 347-7050.

RANK, Joseph McArthur; British business executive; b. 24 April 1918, Kingswood, Surrey; s. of the late Rowland Rank and Margaret (née McArthur); m. The Hon. Moira, d. 3rd Baron Southborough; one s. one d.; ed. Loretto School; joined Mark Mayhew Ltd., Flour Millers 1936; Royal Air Force 1940-46; Joint Managing Dir. Joseph Rank Ltd. 1955-; Deputy Chair. Ranks Hovis McDougall Ltd. 1965-69, Chair. 1969-; Chair. British Nutrition Foundation Ltd. 1968-69; Chair. Millers Mutual Assen. 1969-; Pres. Nat. Assen. of British and Irish Millers 1957-58, 1978; First High Sheriff of East Sussex 1974-75. *Address:* Landhurst, Hartfield, Sussex, England.

RÁNKI, Dezsö; Hungarian pianist; b. 8 Sept. 1951, Budapest; s. of József Ránki and Edith Jecsmen; ed. Ferenc Liszt Music Acad., Budapest (under Pál Kadosa); has given recitals and appeared with several leading orchestras throughout Europe; with Zoltán Kocsis (*q.v.*) toured U.S.A. with Budapest Symphony Orchestra under György Lehel 1971; Solo tour Philippines, Singapore, India 1975, Japan 1975, 1977, Spain, France, Britain (Queen Elizabeth Hall, London) 1978; has taught piano at Budapest Music Academy since 1973; First Prize, Int. Schumann Competition, Zwickau, G.D.R. 1969, Grand Prix Int. du Disque (Paris) 1972, Liszt Prize 2nd Degree 1973, Kossuth Prize 1978. *Leisure interests:* gramophone

records, sound tapes, Italian and Chinese food. *Address:* H-1073, Budapest VII, Kertész-utca 50; Interconcert Agency, Budapest V, Vörösmarty tér 1, Hungary. *Telephone:* 421-400 (Home); 184-664 (Agency).

RAŃKI, György; Hungarian composer; b. 30 Oct. 1907, Budapest; m. Anna Dékány 1940; one s. one d.; ed. Budapest (under Kodály, etc.) and Paris (under A. Schaeffner); Erkel Prize; Kossuth Prize 1954; Merited Artist of the Hungarian People's Repub.; Gold Medal of Labour 1967, Pro Arte 1970, Medal of Socialist Hungary 1977. *Works include:* On the Outskirts of Town (cantata) 1947, 1848 (folk-song cantata) 1948, Sword Dance 1949, Song of Freedom 1951, King Pomade's New Clothes (opera, 1st and 2nd Suite for Orchestra), Two Wonder Oxen 1956, Pentaerophonia (quintet for woodwind) 1958, Winner Unknown (children's opera) 1960, Three Nights (drama with music) 1961, 1514 (fantasy for piano and orchestra) 1961, Ladies at Choice (operetta) 1961, A Streetcar Named Desire (incidental music) 1962, Peter in Musicland (children's opera) 1962, A Midsummer Night's Dream (incidental music) 1964, The Circus (ballet) 1965, 1944 (oratorio) 1966, Aurora Tempestuosa (prelude for orchestra) 1967, Panic (musical comedy) 1967, The Tragedy of Man (mysterio-opera) 1970, Lament (in memoriam Zoltán Kodály) 1971, Cantus Urbis (oratorio) 1972, Raga di Notte (violin and orchestra), The Magic Drink (ballet) 1974, The Silent Knight (musical) 1976, First Symphony 1977, Concertino, The Boatman in the Moon (opera), Concerto (viola and orchestra) 1978; vocal and instrumental, educational, film and stage music 1930-75. *Leisure interests:* gardening, swimming, yoga. *Address:* Gülbaba-utca 36, H-1023, Budapest II, Hungary. *Telephone:* 359-407.

RANKIN, Dame Annabelle, D.B.E.; Australian fmr. politician and diplomatist; b. 28 July 1908, Brisbane; d. of the late Col. C. D. W. Rankin, mem. of Queensland Legislative Assembly; ed. Childers, Howard and Glennie Memorial School, Toowoomba; State Sec. Queensland Girl Guides Assen.; served in Second World War in Voluntary Aid Detachment and as YWCA Asst. Commr. for Queensland attached to the Army; Organizer Jr. Red Cross in Queensland 1946; mem. Senate 1946; mem. Parl. Standing Cttee. on Broadcasting 1947, Parl. Public Works Cttee. 1950; Opposition Chief Whip in Senate 1947-49, Govt. Whip 1951-66; Vice-Pres. Liberal Party Queensland 1949; Minister for Housing 1966-71; High Commr. in New Zealand 1971-75; mem. Commonwealth Parl. Del. to Canada 1952; Vice-Pres. Multiple Handicapped Children's Assen.; Patron Cystic Fibrosis Assen.; mem. Fed. Cttee. of Outward Bound Assen., Advisory Cttee. of Australian Broadcasting, Queensland; Liberal. *Address:* 79 Captain Cook Parade, Deception Bay, Queensland, Australia.

RANKIN, Bruce I.; Canadian diplomatist; b. 20 March 1918, Brandon, Man.; m.; three d.; ed. Univ. of Alberta and Nat. Defence Coll., Fort Frontenac, Kingston, Ont.; Royal Canadian Navy 1941-45, discharged with rank of Lieut.-Commdr.; joined Trade Commissioner Service 1945, serving in Sydney, Shanghai, Canberra, Bombay, Madrid, Berne and New York; Deputy Consul Gen., New York 1959-64; Amb. to Venezuela and the Dominican Repub. 1964-70; Consul Gen., New York 1970-76; Gen. Assembly Second Cttee. (Econ. and Financial), Rep. 1967-73; Chair. 1972-; Amb. to Japan Feb. 1976-. *Address:* Embassy of Canada, 3-38, Akasaka 8-chome, Minato-ku. Tokyo, Japan.

RANKOVIĆ, Aleksandar; Yugoslav politician; b. 28 Nov. 1909, Draževac, Belgrade; m.; two s.; active in trade union movements and illegal Communist Party; arrested and imprisoned for political activities 1929-35; after release was in military service and active in workers' movement; arrested by Gestapo 1941, but released by Partisans; mem. Supreme Staff Nat. Liberation Army 1941-45; Collaborator of Marshal Tito 1937-66; Gen. Col. of Yugoslav Nat. Army; Minister of the Interior and Gov. Vice-Pres. 1946-52; Vice-Pres. Fed. Exec. Council 1953-63; Pres. Atomic Cttee. 1956-63; Vice-Pres. of Yugoslavia 1963-66; Sec. CP Secr. until 1966; Pres. Cen. Cttee. Union of Veterans of Nat. Liberation War; Nat. Hero; many foreign and nat. decorations. *Leisure interests:* hunting, chess. *Address:* Andre Nikolića No. 5, Belgrade, Yugoslavia. *Telephone:* 51-882.

RAO, Calyampudi Radhakrishna, M.A., SC.D., F.N.A., F.R.S.; Indian statistician; b. 10 Sept. 1920, Hadagali, Mysore State; s. of C. D. Naidu and A. Laxmikanthamma; m. Bhargavi Rao 1948; one s. one d.; ed. Andhra and Calcutta Univs.; Research at Indian Statistical Inst. 1943-46, Cambridge Univ. 1946-48; Prof. and Head of Div. of Theoretical Research and Training 1949-64; Dir. Research and Training School, Indian Statistical Inst. 1964-71, Sec. and Dir. 1972-76, Jawaharlal Nehru Prof. 1976-; Fellow, Inst. of Mathematical Statistics, U.S.A., Pres.-elect 1975-76, Pres. 1976-77; Treas. 1961-65, now mem. Int. Statistical Inst., Pres.-elect 1975-77, Pres. 1977-79; Pres. Int. Biometric Soc. 1973-75; Hon. Fellow, Royal Statistical Soc.; Fellow, American Statistical Assen., Econometric Soc.; Hon. Foreign mem. American Acad. Arts and Sciences 1975–; Hon. Fellow, King's Coll., Cambridge Univ.; Editor Sankhya (Indian Journal of Statistics); Hon. D.Sc. (Andhra, Athens, Delhi, Leningrad and Osmania Univs.) Bhatnagar Memorial Award for Scientific Research; Padma Bhushan; Guy Silver Medal Royal Statistical Soc.; Meghnad Saha Gold Medal. *Publications include:* Advanced Statistical Methods in Biometric Research, Linear Statistical Inference and its Application, Generalized Inverse of Matrices and its Applications, Characterization Problems of Mathematical Statistics; over 150 research papers in mathematical statistics. *Leisure interest:* writing humorous essays. *Address:* Indian Statistical Institute, 7, Shaheed Jeet Singh Sansanwal Marg, New Delhi 110029, India. *Telephone:* 651384 (Office); 690113 (Home).

RAO, Chandra Rajeswar; Indian politician; b. 6 June 1914; ed. Hindu High School, Masulipatam, and Banaras Hindu Univ.; at Vizagapatam Medical Coll. 1936-37; joined Communist Party, Andhra 1936; mem. Central Cttee. Communist Party of India 1948, Gen. Sec. 1950-51, 1964-; Order of Lenin 1974. *Address:* Communist Party of India, Ajoy Bhavan, Kotla Marg, New Delhi 110002, India. *Telephone:* New Delhi 271002.

RAO, Chintamani Nagesa Ramachandra, M.SC., D.SC., PH.D., F.R.I.C.; Indian professor of chemistry; b. 30 June 1934, Bangalore; s. of H. Nagesa Rao; m. Indumati Rao 1960; one s. one d.; ed. Mysore, Banaras, Purdue and California Univs.; Lecturer, Indian Inst. of Science, Bangalore 1959-63; Prof. later Senior Prof., Indian Inst. of Technology, Kanpur 1963-77; Dean of Research and Devt. 1969-72; Visiting Prof. Purdue Univ., U.S.A. 1967-68, Oxford Univ. 1974-75; Chair. IUPAC Cttee on Teaching of Chem.; mem. IUPAC Bureau and Exec. Cttee, CODATA; mem. Nat. Cttee. on Science and Tech. 1970-74, Editorial Boards of eight int. journals; Fellow, Indian Acad. of Sciences, also Sec., Indian Nat. Science Acad., St. Catherine's Coll., Oxford 1974-75; American Chem. Soc. Centennial Foreign Fellow 1976; Jawaharlal Nehru Fellow, Indian Inst. of Tech.; Marlow Medal, Faraday Soc. 1967; Bhatnagar Award 1968; Padma Shri 1974; Fed. of Indian Chamber of Commerce and Industry Award for Physical Sciences 1977. *Publications:* Ultraviolet Visible Spectroscopy 1960, Chemical Applications of Infrared Spectroscopy 1963, Spectroscopy in Inorganic Chemistry 1970, Modern Aspects of Solid State Chemistry 1970, Solid State Chemistry 1974, Educational Technology in Teaching of Chemistry 1975, Phase Transitions in Solids 1978; nearly 200 original research papers. *Leisure interests:* swimming, gourmet cooking, general reading. *Address:* Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore 560012, India.

RAO, K. N., M.B.B.S., M.D.; Indian medical official and administrator; b. 31 Jan. 1907, Gudivada, Andhra Pradesh; s. of K. Venkatappiah and Ratna Desiraju; m. Susila Radhakrishnan 1930; two d.; ed. Univ. of Madras; entered Indian Medical Service 1935; Prof. of Medical Jurisprudence, Christian Medical Coll., Vellore 1948-49; Tuberculosis Adviser to Govt. of Madras 1951-54; Dir. of Medical Services, Andhra Pradesh 1954-63; Dir.-Gen. of Health Services, Govt. of India 1964-68; Chair. Exec. Board, WHO 1967-68; Pan American Health Org./WHO Consultant on Medical Educ. in Latin America 1968; WHO Visiting Prof. of Int. Health, School of Hygiene Toronto Univ. 1968; Exec. Dir., Indian Assen. for Advancement of Medical Educ. 1968-70; WHO Consultant, Medical Educ. in Africa 1970; Sec.-Gen., Population Council of India 1970-73; Pres. World Federation of Public Health Asscns. 1967-68; Visiting Prof. of Medicine, Sri Venkateswara Univ. 1970-71; Editor-in-Chief Journal of Medical Education 1970-74; Hon. consultant Population Studies Centre, Sri Venkateswara Univ.; Consultant, Pan American Health Org./WHO, Washington, D.C., on Health and Population Dynamics 1973-74; Exec. Dir. Nat. Inst. of Medical Sciences, India 1975-; Sec. Nat. Board of Examinations 1975-; official on numerous Indian and int. health orgs.; Hon. LL.D. and other hon. degrees; numerous awards. *Publications:* Recent Development in the Field of Health and Medical Education 1966, India and World Health 1968; Gen. Editor Text Book of Tuberculosis 1972, Philosophy of Medicine 1968. *Leisure interests:* gardening, chess. *Address:* National Institute of Medical Sciences, C II/16, Ansari Nagar, New Delhi 110016 (Office); D-57, Naraina, New Delhi 28, India (Home). *Telephone:* 393178 (Home).

RAO, Raja; Indian writer; b. 21 July 1909; ed. Nizam Coll., Hyderabad, Univs. of Montpellier and Paris; Prof. of Philosophy, Univ. of Texas. *Publications:* Kanthapura, Cow of the Barricades, The Serpent and The Rope, The Cat and Shakespeare; short stories in French and English. *Address:* c/o Department of Philosophy, College of Humanities at Austin, University of Texas, Austin, Tex. 78712, U.S.A.

RAO, Vijayendra Kasturi Ranga Varadaraja, M.A., B.A., PH.D., D.LITT.; Indian economist and government official; b. 8 July 1908, Kancheepuram; s. of K. Kasturirangachar and Bharathi Bai; m. 1st Pramila 1931 (died 1955); 2nd Kamala 1962; one s. two d.; ed. Wilson Coll., Bombay, and Gonville and Caius Coll., Cambridge; Prin. and Prof. of Econs., L.D. Arts Coll., Ahmedabad 1937-42; Prof. and Head of Dept. of Econs., Delhi Univ. 1942-57; Dir. of Statistics, Govt. of India 1944-45; Planning Adviser, Govt. of India 1945-46; Food and Econ. Adviser, Embassy of India, Washington 1946-47; Founder and Dir. Delhi School of Econs., Delhi Univ. 1949-57, Vice-Chancellor, Delhi Univ. 1957-60, Emer. Prof. 1966-; Founder and Dir. Inst. of Econ. Growth 1960-63; mem. Indian Planning Comm. 1963-66; Chair. UN Sub-Comm. on Econ. Devt. 1947-50; mem. Parl. 1967-77; Union Minister for Transport and Shipping 1966-69; Minister of Educ. and Youth Services 1969-71; Founder, Dir. Inst. for Social and Econ. Change, Bangalore 1972-77 (retd.); Nat. Fellow, Indian Council of Social Science Research 1977-; Hon. Fellow Gonville and Caius Coll., Cambridge 1971; Hon. D.C.L. (Oxford) 1969; Padma Vibhushan Award 1974. *Publications:* Taxation of Income in India 1931, An Essay on India's National Income, 1925-29 1939, The National Income of British India, 1931-32 1940, War and Indian Economy 1943, India and international Currency Plans 1946, Post-war Rupee 1948, Foreign Aid and India's Economic Development 1962, Essays on Economic Development 1963, Greater Delhi—A Study in Urbanisation 1947-57 1965, Education and Human Resource Development 1966, Values and Economic Development, The Indian Challenge 1971, The Nehru Legacy 1971, Inflation and India's Economic Crisis (co-author) 1973, Growth with Justice in Asian Agriculture, Iran's Fifth Plan—An Attempted Economic Leap 1975, The Indian Road to Democratic Socialism—An Indian View 1976, Vivekanada—Prophet of Vedantic Socialism 1978; edited: Agricultural Labour in India 1961, Employment and Unemployment 1965, Bangla Desh Economy—Problems and Prospects 1972, Planning for Change—Issues in Mysore's Development 1974. *Leisure interests:* nature study, music, philosophy. *Address:* "Dayanidhi", No. 1170A, 26A Main Road, 4th "T" Block, Jayanagar Bangalore 560040, India. *Telephone:* 41515 (Home).

RAOUL, Major Alfred; Congolese army officer and politician; b. 1930; ed. Military Acad., Saint-Cyr, France; Adjutant to C.-in-C. of Congolese Armed Forces 1963-65; Dir. of Corps of Engineers 1965; Sec. in charge of Defence, Directorate of Nat. Revolutionary Council Aug. 1968; Prime Minister of Congo (Brazzaville) 1968-69, concurrently Minister of Defence 1968-69, concurrently Minister of State Planning and Admin. Sept.-Dec. 1969; Head of State 1968-69; Vice-Chair. Council of State 1969-71; sentenced to 10 years' imprisonment March 1972, released Aug. 1972; later Amb. to Belgium; Amb. to Egypt 1978-; fmr. mem. Political Bureau of Congolese Workers' Party (P.C.T.); 2nd Sec. Cent. Cttee. of P.C.T. *Address:* Embassy of the Congo, 12 Midan El Nasr, Dokki, Cairo, Egypt.

RAPAI, Gyula: Hungarian politician and diplomatist; b. 1923, Kánya; s. of Mihály Rapai and Borbala Kisturi: m. Piroska Gati 1949; two d.; ed. Soviet Communist Party High School, Moscow; joined Hungarian Communist Party 1945; Deputy Leader, later Head, Agitprop Dept., Hungarian Socialist Workers' Party Cen. Cttee. 1959-62; First Sec. Hungarian Socialist Workers' Party County Baranya Cttee. 1962-70; mem. Parl. 1966-70; mem. Nat. Council of Trade Unions 1966-70; Amb. to U.S.S.R. 1970-76; Dir. Kossuth Publishing House of Budapest 1976-; Vice-Pres. Hungarian-Soviet Friendship Soc. 1977. *Address:* Kossuth Könyvkiadó, Steindl Imre-u. 6, Budapest V, Hungary. *Telephone:* 312-111.

RAPER, Kenneth Bryan; American professor of bacteriology and botany; b. 11 July 1908, Welcome, N.C.; s. of William Franklin Raper and Julia Crouse Raper; m. Louise Montgomery Williams; one s.; ed. Univ. of N.C. and George Washington and Harvard Univs.; Jr. Mycologist Bureau of Chem. and Soils, U.S. Dept. of Agric. (U.S.D.A.) 1929-36, Asst. Mycologist Bureau of Plant Industry 1936-40; Microbiologist, later Prin. Microbiologist N. Regional Research Lab., U.S.D.A., Peoria, Ill. 1940-53; Prof. of Bacteriology and Botany, Univ. of Wis. 1953-, mem. Cancer Research Cttee. 1956-60; Visiting Prof. of Botany, Univ. of Ill. 1946-53; Trustee, American Type Culture Collection, Washington, D.C. 1948-52, Chair. Exec. Cttee. 1952-55; mem. Merck Fellowship Board, Nat. Research Council 1953-57, Exec. Cttee. Div. of Biology and Agriculture 1956-61; mem. Selection Cttee. for Senior Postdoctoral Fellowships, Nat. Science Foundation 1961-64, Chair. Biological Sciences 1962-64; Chair. U.S. Del. to Gen. Assembly of Int. Union of Biological Sciences (IUBS), London 1958, Prague 1964, Chair. U.S. Nat. Cttee. IUBS 1962-64; Chair. U.S. Nat. Cttee. for Int. Botanical Congress (Vice-Pres. XI Int. Bot. Congress), Seattle 1969; mem. Nat. Acad. of Sciences (mem. of Council 1961-64), American Acad. of Arts and Sciences, American Philosophical Soc., A.A.A.S., Mycological Soc. of America (Pres. 1951), SOc. of Industrial Microbiologists (Pres. 1953), Soc. of American Microbiologists (Councillor 1954-58), etc.; Lasker Award (Co-Recipient) 1946, Distinguished Service Award, U.S.D.A. (Co-Recipient) 1947, Charles Thom Award, Soc. for Industrial Microbiology 1967. *Publications:* Manual of the Aspergilli (with Charles Thom) 1945, Manual of the Penicillia (with Charles Thom) 1949, The Genus Aspergillus (with Dorothy I. Fennell) 1965; Research papers on Saprophytic fungi, Industrial microbiology, and cellular slime molds. *Leisure interests:* photography, gardening. *Address:* Department of Bacteriology, University of Wisconsin, Madison, Wis. 53706 (Office); 4110 Chippewa Drive, Madison, Wis. 53711, U.S.A. (Home). *Telephone:* 608-262-3055 (Office); 608-233-7703 (Home).

RAPHAEL, Farid; Lebanese banker and government official; b. 27 Oct. 1933, Dlebta, Kesrouan; ed. Univ. of St. Joseph, Beirut, Univ. of Lyons, France; Fondé de Pouvoirs, Compagnie Algérienne de Crédit et de Banque, Beirut 1960, Sub-Man. 1962, Joint Man. 1965, Gen. Man. 1967, mem. Board 1967-; Vice-Pres. and Gen. Man. Banque Libano Française (France) S.A. 1976-; Minister of Justice, Finance, Posts, Telephones and Telecommunications Dec. 1976-. *Address:* Ministry of Finance, Beirut; Banque Libano Française (France) S.A., P.O. Box 808, Beirut; Baroudy Building, Hazmieh, Lebanon (Home).

RAPHAEL, Yitzhak, M.A., PH.D.; Israeli politician; b. 5 July 1914; ed. Hebrew Univ.; settled in Palestine 1935; mem. Exec. Jewish Agency and Head, Emigration Dept. 1948-54; mem. of 2nd, 3rd, 4th, 5th, 6th, 7th and 8th Knessets; Chair. Exec. Mafdal (Nat. Religious Party); mem. World Exec. Nat. Religious Party Mizrachi; Chair. Legislative Cttee. Knesset; Chair. Mossad Harav Kook (Publishers); Editor Sinay 1962-; Deputy Minister of Health 1962-64; Minister of Religious Affairs 1974-77; Chair. Yad Harav Maimon Judaic Studies Centre. *Publications:* Sefer Hachasidith, Rishonim v'achronim, Hachasidut v'Eretz Israel; Ed. Encyclopaedia of Religious Zionism (5 vols.). *Address:* P.O. Box 642, Jerusalem, Israel.

RAPSON, Ralph, B.ARCH.; American architect; b. 13 Sept. 1914; ed. Alma (Mich.) Coll., Univ. of Mich. Coll. of Architecture, and Cranbrook Acad. of Art; practising architect 1941-, f. Ralph Rapson and Assocs.; Head Dept. of Architecture Chicago Inst. of Design 1942-46; Assoc. Prof. of Architecture M.I.T. School of Architecture 1946-54 (leave of absence to execute designs in Europe for State Dept. 1951-53); Prof. and Head of School of Architecture, Univ. of Minnesota 1954-; Visiting Prof. Univ. of Va.; mem. American Inst. of Architects, Int. Congress of Modern Architecture; Dir. Walker Art Gallery; fmr. Chair. Editorial Board Northwest Architect; numerous awards include Parker Medal 1951, American Inst. of Architects Honor Award for U.S. Embassy, Stockholm 1954, two Merit Awards 1955, Honour Award 1958. Designs include projects for U.S. Government, several churches and schools, commercial, industrial and residential buildings, particularly U.S. Embassy, Stockholm, U.S. Embassy, Copenhagen, U.S. Consulate, Le Havre, St. Peter's Lutheran Church (Edina, Minn.), Fargo (N.D.) Civic Center, St. Paul (Minn.) Arts and Science Center, American Embassy, Beirut, Dr. William G. Shepherd House, St. Paul, Tyrone Guthrie Repertory Theatre, Minn. (Designs also executed for Embassies at Athens, The Hague and Oslo.) *Address:* 1503 Washington Avenue, S.E., Minneapolis 55454 Minn., U.S.A.

RASHID BIN SAID AL-MAKTUM, Ruler of Dubai (see Maktum, Rashid bin Said al-).

RASHID, Sheikh Mohammad, B.A., LL.B.; Pakistani lawyer and politician; b. 24 May 1915, Kalawala, Sheikhupura District; s. of late Sheikh Mehrdin; m. 1934; four s.; joined Muslim League 1940; imprisoned for political activities 1947; mem. Pakistan muslim League Council 1948-50; organized Azad Pakistan Party (later renamed Nat. Awami Party), Sec.-Gen. 1952; launched Kisan Morcha Movt. Lahore 1956; founder mem. Pakistan People's Party; Advocate, Supreme Court of Pakistan; mem. Nat. Assembly; minister of Social Welfare, Health and Family Planning 1971-74, of Food and Agriculture, Co-operatives, Works, Underdeveloped Areas and Land Reforms 1974-77, of Agric., Co-operative and Land Reforms March-July 1977. *Leisure interest:* reading. *Address:* 8 Zaldar Road, Ichhra, Lahore, Pakistan. *Telephone:* 21550.

RASHIDOV, Sharaf Rashidovich; Soviet politician; b. 6 Nov. 1917; ed. Dzhizak Teachers' Training Coll., Uzbek State Univ.; Teacher 1936-37; Sec. and Asst. Editor 1938-41; Soviet Army 1941-42; Editor of the newspaper Lenin-Yuly 1941, 1943; school Dir. 1942; cadres Sec. of the Samarkand Regional Cttee. of the Party 1944-47; Chief Editor of the republican newspaper Kzyl Uzbekistan 1947-49; Pres. of the Presidium of the Uzbek Union of Soviet Writers 1949-50; Deputy to Supreme Soviets of Uzbek S.S.R. and

U.S.S.R. 1950-; Pres. of the Presidium of the Supreme Soviet of Uzbekistan, Vice-Pres. of the Presidium of the Supreme Soviet of the U.S.S.R. 1950-59; mem. 1970-; one of the chief organizers of the Afro-Asian Solidarity Cttee., Cairo 1957; 1st Sec. CP of Uzbekistan 1959-; Cand. mem. Cen. Cttee. CPSU 1956-61, mem. 1961-; Cand. mem. Presidium of Cen. Cttee. of CPSU 1961-66, Alt. mem. Politburo 1966-; awarded Order of Lenin (six times), Order of the Red Banner of Labour, Order of the Red Star, Badge of Honour, Hero of Socialist Labour, and other decorations. *Publications:* My Rage (poetry) 1945, Victors 1951, Kashmir Song 1956, Stronger than the Storm 1958, Peaceful Wave 1964, and other works. *Address:* Central Committee of Communist Party of Uzbekistan, Tashkent, U.S.S.R.

RASMINSKY, Louis, C.C., C.B.E., B.A., LL.D., D.H.L., D.C.L.; Canadian fmr. banker; b. 1 Feb. 1908, Montreal; s. of late David and Etta Rasminsky; m. Lyla Rotenberg 1930; one s. one d.; ed. Univ. of Toronto and London School of Economics; League of Nations official 1930-39; Dir. Research and Statistical Section, Foreign Exchange Control Board of Canada 1940-42; Alternate Chair. and Chief Exec. Officer of Board 1942-51; Exec. Asst. to Govs. of Bank of Canada 1943-54; Deputy Gov. Bank of Canada 1956-61, Gov. 1961-73; Pres. Industrial Devt. Bank 1961; Chair. Board Int. Devt. Research Centre 1973-78; mem. Canadian Del. to Bretton Woods Conf. 1944, and to San Francisco Conf. of UN 1945; Exec. Dir. of Int. Monetary Fund 1946-62, Int Bank 1950-62, Int. Finance Corpn. 1956-62; Exec. Dir. Int. Devt. Assn. 1960-62; Fellow, Inst. of Canadian Bankers 1969; Hon. Fellow of London School of Econs.; Outstanding Achievement Award of the Public Service of Canada 1968; Vanier Medal of the Inst. of Public Admin. of Canada 1974; numerous honorary degrees. *Address:* 440 Roxborough Road, Rockcliffe Park, Ottawa, K1M 0L2, Canada. *Telephone:* 749-7704.

RASMUSSEN, Viggo J.; Danish business executive; b. 20 Jan. 1915, Aalborg; s. of C. A. and Antonie Louise Rasmussen (née Andersen); m. Lydia Hansen 1939; one s. one d.; ed. Copenhagen School of Business Science; Danish Air Lines 1932-, Vice-Pres. 1947, Exec. Vice-Pres. Scandinavian Airlines System 1950; Pres. and Man. Dir. United Breweries (Tuborg Breweries and Carlsberg Breweries) 1962-71, mem. of the Board 1971-74, mem. Board of Tuborg Foundation; mem. Acad. of Technical Sciences; Knight First Degree, Order of Dannebrog, Knight Order of Vasa, Commdr. Order of Merit of the Italian Republic. *Leisure interests:* antiques, paintings, ships. *Address:* Tuborg Breweries Ltd., Strandvejen 50, 2900 Hellerup (Home); 128 Store Kongensgade, DK-1264 Copenhagen K, Denmark.

RASSCHAERT, Théo; Belgian trade unionist; b. 22 Jan. 1927, Deurne; m. Maria Belloy 1951; three d.; ed. Athenée, Antwerp, and Inst. supérieur de Commerce de l'Etat, Antwerp; Studies Dept., Féd. du Travail de Belgique 1951-59; mem. Belgian Del. to negotiations for Treaty of Rome 1957-58; Sec. responsible for econ. questions and problems of collective negotiation, Secr'aaetariat Syndical Européen (European Trade Union Secr.—CISL) 1959-67, Sec.-Gen. of European Trade Union Confederation 1973-76. *Publications:* articles on labour problems and European questions. *Address:* c/o European Trade Union Confederation, 37-41 rue Montagne aux Herbes Potagères, Brussels 1, Belgium. *Telephone:* 2179141.

RATAJCZAK, Henryk, M.SC., PH.D., D.SC.; Polish professor of chemistry; b. 30 Sept. 1932, Kadobno; m. Halina Opryszko 1972; ed. Technical Univ., Wrocław, Wrocław Univ., Univ. of Wales, Univ. of Salford, Sorbonne, Paris, Centre de Mécanique Ondulatoire Appliquée, Paris; Asst. in Physical Chem., Univ. of Wrocław 1956-59, Senior Asst. 1959-63, Adjunct 1963-70, Docent in Chemical Physics 1970-74, Extraordinary Prof. of Chem. 1975-, Head of Dept. of Theoretical Chem. and Chemical Physics 1969-; Deputy Dir. of Research, Inst. of Chem. 1970-; Visiting Prof. Univ. Salford, U.K. 1975-77 Univ. Paris 1977-78; Scientific Sec. of Spectroscopy Cttee., Polish Acad. of Sciences 1969-; Corresp. mem. Polish Acad. of Sciences 1976; Editor for Eastern Europe, Journal of Molecular Structure, Advances in Molecular Relaxation and Interaction Processes; Chevalier's Cross of Order of Polonia Restituta; Marie Sklodowska-Curie Prize 1976. *Publications:* Structural Studies of some hydrogen-bonded ferroelectrics 1969, Dipole moments of hydrogen-bonded complexes and proton transfer effect 1969, On the nature of electron donor acceptor interactions 1972, Charge transfer properties of the hydrogen bond 1972, 1973, CNDO/2 molecular orbital calculation of the Dewar structure of benzene 1972, of pyridine 1974, of pyrazine, pyrimidyne and pyridazine 1975, Charge transfer theory of hydrogen bonds: Relation between vibrational spectra and energy of hydrogen bonds 1976, Studies on the lithium bond 1976, and over 40 articles on the theory, properties and structure of molecular systems. *Leisure interests:* music, literature, sport. *Address:* Institute of Chemistry, Wrocław University, ul. Joliot-Curie 14, 50-383 Wrocław (Office); ul. Młodych Techników 4/16, Wrocław 53-646, Poland (Home). *Telephone:* 22-92-81 (Office).

RATANOV, Anatoliy Petrovich; Soviet diplomatist; b. 8 March 1921, Buguruslan, Orenburg Region; mem. CPSU 1943-; worked for Young Communist League 1943-54; Editor journal, Molodoi Kommunist (Young Communist) 1954-58; Perm. Rep. of U.S.S.R. Cttee. of Youth Orgs. to World Fed. of Democratic Youth 1958-60; First Sec., Phnom-Penh, Cambodia 1960-62, Counsellor 1962-63; Amb. to Cambodia 1965-68; on staff at Ministry of Foreign Affairs 1968-70; Amb. to Guinea 1970-73, to Ethiopia 1973-78; Order of Lenin, Red Banner of Labour, Badge of Honour, etc. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

RATCHFORD, Charles Brice, M.S., PH.D.; American fmr. university president; b. 30 July 1920, Gaston County, N.C.; s. of Earl B. and Mary E. Woods Ratchford; m. Betty Brown 1942; one s. one d.; ed. North Carolina State Coll. and Duke Univ.; Asst. Farm Management Specialist, N.C. State Coll. 1942; U.S. Army 1942-46; Project Leader, Extension Farm Management, N.C. State Coll. 1946-48, Extension Farm Management and Marketing 1948-54; Asst. Dir. N.C. Agricultural Extension Service 1954-59; Dir. Cooperative Extension Service, Univ. of Missouri 1959-60; Dean, Extension Div., Univ. of Mo. System 1960-65; Visiting Lecturer, Univs. of Wis. and Chicago 1965-70; Interim Pres., Univ. of Mo. and on leave ■ Vice-Pres. for Extension 1970-71; Pres. Univ. of Mo. 1971-76; Distinguished Service Awards, U.S. Dept. of Agriculture and Univ. of Wis. and several other awards. *Publications:* over 50 articles in professional journals. *Address:* 1900 South Providence Road, Columbia, Mo. 65201, U.S.A. *Telephone:* 314-882-4680.

RATCLIFFE, John Ashworth, C.B., C.B.E., F.R.S., M.A.; British radio scientist; b. 12 Dec. 1902, Bacup, Lancs.; s. of H. H. Ratcliffe; m. Nora Disley 1930; two d.; ed. Giggleswick School and Sidney Sussex Coll., Cambridge; Lecturer, Cambridge Univ. 1927-60, Reader in Physics 1947-60; Dir. Radio and Space Research Station, Slough 1960-66 (retd.); Hon. Pres. Int. Union of Radio Science 1966-; Hon. Fellow, Sidney Sussex Coll., Cambridge 1962-; Pres. Physical Soc. 1959-60; Vice-Pres. Inst. of Electrical Engineers (IEE) 1963-66, Pres. 1966; Royal Medal, Royal Soc. 1966; Faraday Medal, IEE 1966; Guthrie Medal, Inst. of Physics. 1971. *Publications:* papers and books on radio waves and the ionosphere. *Leisure interest:* walking on the hills. *Address:* 193 Huntingdon Road, Cambridge, CB3 0DL, England. *Telephone:* Cambridge 76328.

RATEB, Aisha, PH.D.; Egyptian politician; b. 22 Feb. 1928; ed. Faculty of Law, Cairo Univ.; Jr. Lecturer, Faculty of Law, Cairo Univ., Lecturer 1957, then Prof. of Int. Law; Minister of Social Affairs 1971-76, of Social Affairs and Insurance 1976-77; Chair. Legislative Affairs Cttee. 1973-. *Address:* c/o Ministry of Social Affairs, Cairo, Egypt.

RATHBONE, Perry Townsend; American museum director; b. 3 July 1911, Germantown, Pa.; s. of Howard Betts and Beatrice (Connely) Rathbone; m. Euretta de Cosson 1945; one s. two d.; ed. Harvard Univ.; Curator, Detroit Inst. of Arts 1936-40; Dir. City Art Museum, St. Louis 1940-55; Dir. Museum of Fine Arts, Boston 1955-72, Dir. Emer. and Consultant 1972-; Dir. Christie's Int. (fmrly. Christie's U.S.A.) 1973-; mem. American Assn. of Museums and Assn. of Art Museum Dirs., U.S. Nat. Comm. of Int. Council of Museums, American Acad. of Arts and Sciences, Visiting Cttee. Fogg Art Museum 1955-66, Rockefeller Panel on the Performing Arts 1962-63, Exec. Cttee. Art in the Embassies Prog.; Pres. Assn. of Art Museum Dirs. 1959-60, 1969-70; Vice-Chair. Mass. Art Comm. Board of Overseers, Fine Arts Prog. Brandeis Univ., Fine Arts Visiting Comm. Rhode Island School of Design; Special Adviser to the Ford Program in the Arts and Humanities; Trustee, New England Conservatory of Music, Museum of Science, Boston, Inst. of Contemporary Art, Boston, American Fed. of Arts, Boston Arts Festival, Cape Cod Art Assn., Int. Exhibitions Foundation, Washington, D. C., Rhode Island School of Design, Charles Playhouse, Cosmopolitan Art Foundation 1974-, Royal Oak foundation 1975–, Opera Co. of Boston 1976-; Chevalier Légion d'honneur, and several hon. degrees. *Publications:* Charles Wimar: Painter of the Indian Frontier 1946, Max Beckmann 1948, Mississippi Panorama 1949, Westward the Way 1954, Lee Gatch 1960, Handbook of the Forsyth Wickes Collection 1968, Western Art 1970, Andrew Wyeth 1974. *Address:* Christie's International, 502 Park Avenue, New York, N.Y. 10021; 151 Coolidge Hill, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 212-826-2379.

RATHKE, Heinrich Karl Martin Hans, DR.THEOL.; German ecclesiastic; b. 12 Dec. 1928, Mölln, Kreis Malchin; s. of Paul and Hedwig (née Steding) Rathke; m. Marianne Rusam 1955; six s. one

d.; ed. Univs. of Kiel, Erlangen, Tübingen and Rostock; parish priest, Althof bei Bad Doberan 1954-55, Warnkenhagen, Mecklenburg 1955-62, Rostock Südstadt 1962-70; Priest in charge of community service and people's mission, Mecklenburg 1970-71; Bishop of the Evangelical-Lutheran Church of Mecklenburg 1971-; Presiding Bishop of the United Evangelical Lutheran Church of the G.D.R. Sept. 1977-. *Publication:* Ignatius von Antiochien und die Paulusbriefe 1967. *Address:* 27 Schwerin, Münzstrasse 8, German Democratic Republic.

RATLIFF, Floyd, B.A., M.SC., PH.D.; American university professor; b. 1 May 1919, La Junta, Colo.; s. of Charles Frederick Ratliff and Alice Hubbard; m. Orma Vernon Priddy 1942; one d.; ed. Pueblo Junior Coll., Colorado Coll. and Brown Univ.; U.S. Army 1941-45; Nat. Research Council Postdoctoral Fellow, Johns Hopkins Univ. 1950-51; Instructor, Harvard Univ. 1951-52, Asst. Prof., 1952-54; Assoc., Rockefeller Inst. 1954-58, Assoc. Prof., Rockefeller Univ. 1958-66, Prof. 1966-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc.; mem. Editorial Board Journal of General Physiology 1969-; mem. Board of Scientific Counsellors of Nat. Eye Inst. 1970-; Hon. D.Sc. (Colo. Coll.) 1975; Howard Crosby Warren Medal (Soc. of Experimental Psychologists) 1966, Edgar D. Tillyer Award (Optical Soc. of America) 1976. *Publications:* Mach Bands: Quantitative Studies on Neural Networks in the Retina 1965, Studies on Excitation and Inhibition in the Retina (editor) 1974. *Leisure interests:* Oriental art (Chinese ceramics of the Sung dynasty). *Address:* Rockefeller University, York Avenue and 66th Street, New York, N.Y. 10021 (Office); 500 East 63rd Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* 212-360-1214 (Office); 212-838-0060 (Home).

RATSIRAKA, Lieut.-Commdr. Didier; Malagasy naval officer and politician; b. 4 Nov. 1936, Vatomandry; ed. Coll. Saint Michel, Tananarive (now Antananarivo), Lycée Henri IV, Paris, Ecole Navale, Lanveoc-Poulmic (France), École des Officiers "Transmissions", Les Bormettes, and Ecole Supérieure de Guerre Navale, Paris; had several naval postings 1963-70; Mil. Attaché, Paris 1970-72; Minister of Foreign Affairs 1972-75; Pres. Supreme Council of Revolution June 1975-; Prime Minister and Minister of Defence June-Dec. 1975; Pres. Dem. Repub. of Madagascar Jan. 1976-; Sec.-Gen. Avant-garde de la révolution malgache 1976-, Front nat. pour la défense de la révolution socialiste malgache 1977-. *Address:* Présidence de la République, Antananarivo, Madagascar.

RATTRAY, Alfred Adolphus, LL.B., F.C.A. A.C.I.S.; Jamaican lawyer and diplomatist; b. 19 Jan. 1925, St. Ann; s. of Septimus Augustus Rattray and Albertha (née Bailey); m. Cynthia Louise Weston 1951; two d.; ed. Excelsior High School, London Univ., Lincoln's Inn, London, London School of Econs.; joined Civil Service 1945; Accountant and Man. Govt. Food Control Distribution Dept. 1947-51, rising to Asst. Under-Sec. 1953-64; with law firm Myers, Fletcher and Gordon 1964-, Partner 1965- (on leave of absence 1975-); engaged in business 1965-75; Chair. Board, Jamaica Frozen Foods Ltd., Jamaica Fashion Export Guild Ltd., Guild Productions Ltd., New Kingston Hotel Ltd.: Dir. Board Sheraton Int. (Jamaica) Ltd., Island Holidays Ltd., Windsor Foods Ltd.; Deputy Chair. Jamaica Industrial Devt. Corpn. Ltd.; fmr. Chair. Jamaica Port Authority; fmr. Pres. Jamaica Public Accountancy Board; Dir. and Vice-Chair. West Indies Shipping Corpn.; Amb. to U.S.A., also to OAS 1975-; Chair. Perm. Exec. Cttee of the Inter-American Econ. and Social Council; part-time lecturer, Univ. of the West Indies 1961-75; mem. Excelsior School Board. *Publications:* co-author: The Jamaican Companies Act 1965, The Public Accountancy Act 1968. *Leisure interests:* cricket, table tennis, fishing, bridge, reading. *Address:* Embassy of Jamaica, 1666 Connecticut Avenue, N.W., Washington, D.C. 20009, U.S.A. *Telephone:* (202 387-1010.)

RAU, Chalapathi M.; Indian newspaper editor; b. Waltair, Andhra. Asst. Editor National Herald, Lucknow 1938-42; Asst. Editor Hindustan Times, New Delhi 1943-45; Joint Editor National Herald 1945-46, Editor 1946-77, Chair. 1977-; Alternate Rep. UNESCO Gen. Conf., New Delhi 1956, Paris 1960; Rep. UN Gen. Assembly 1958; Vice-Pres. UNESCO Conf. on Journalism Training 1956; founder, Pres. Indian Fed. of Working Journalists 1950-55; mem. Indian Press Comm. 1952-54; Chair. Cen. Press Advisory Board; mem. Cttee. on Broadcasting and Information Media, Exec. Council Nehru Univ., Nehru Trust; Nehru Award for Int. Understanding; Vice-Chair. Nehru Fund; Chair. Nehru Memorial Museum and Library; Hon. D.Litt. (Agra, Andhra Univs.), Hon. LL.D. (Sri Venkateswara Univ.). *Publications:* Fragments of a Revolution 1965, Gandhi and Nehru 1967, The Press in India 1968, All in All 1972, Jawaharlal Nehru 1973. *Leisure interests:* reading, writing. *Address:* National Herald, Herald House, Bahadursshah, Zafar Marg, New Delhi; and 13 Shahjahan Road, New Delhi, India. *Telephone:* 271547 (Office); 383855 (Home).

RAU, Lady Dhanvanthi Rama, M.A.; Indian social worker; b. 10 May 1893; m. Sir Benegal Rama Rau (deceased); ed. St. Mary's High School, Hubli, and Presidency Coll., Univ. of Madras; Lecturer in English, Queen Mary's Coll., Univ. of Madras 1917-19; Sec. All India Child Marriage Abolition League, Simla 1927-28; mem. Board, Int. Alliance of Women for Suffrage and Equal Citizenship 1932-38; Pres. Bombay Branch, All India Women's Conf. (A.I.W.C.) 1946, Pres. A.I.W.C. 1946-47; Pres. Family Planning Assn. of India 1949-63; mem. Family Planning Programmes and Research Cttee., Ministry of Health, Govt. of India 1953, Chair. Social and Moral Hygiene Enquiry Cttee. 1955; mem. Central Social Welfare Board 1956-61; mem. Consultative Cttee. of Planning Comm. for Third Five-Year Plan (Health) 1961; Pres. Int. Planned Parenthood Fed. 1963-71; Kaiser-I-Hind Gold Medal (U.K.) 1938; Lasker Award (U.S.A.) 1955; Padma Bhusan 1959. *Address:* D/10, Mafatlal Park, Bhulabhai Desai Road, Bombay 26, India.

RAU, Santha Rama; Indian writer; b. 24 Jan. 1923, Madras, Tamil Nadu; d. of late Sir Benegal Rama Rau, and Lady Rama Rau, *q.v.*; m. 1st Faubion Bowers 1952 (divorced 1966), one s.; m. 2nd Gurdon W. Wattles; ed. St. Paul's Girls' School, London, and Wellesley Coll., U.S.A.; numerous journeys in Europe, India, America, Southeast Asia, Japan and Russia; fmr. teacher Hani Freedom School, Tokyo; English teacher at Sarah Lawrence Coll. 1971-; Hon. doctorates from Bates, Brandeis and Roosevelt Colls. *Publications:* Home to India 1945, East of Home 1950, Remember the House 1955, View to the South-East 1957, My Russian Journey 1959, A Passage to India (dramatization of E. M. Forster novel) 1962, Gifts of Passage (autobiog.) 1962, The Cooking of India 1969, The Adventuress 1971. *Leisure interests:* gardening, opera and swimming. *Address:* D/10 Mafatlal Park, Bhulabhai Desai Road, Bombay 26, India; and 522 East 89th Street, New York, N.Y. 10028, U.S.A.

RAUCHFUSS, Wolfgang; German politician; b. 27 Nov. 1931, Grüna; fmr. mechanic; mem. SED 1951-, [redacted] SED Cen. Cttee. 1967-; Deputy Minister of Foreign and Intra-German Trade 1961-65; Joint Deputy Chair. Council of Ministers Dec. 1965-, Minister for Supply of Materials 1974-; mem. Volkskammer 1967-; Vaterländer Verdienstorden in Silver and other decorations. *Address:* Ministerrat, Berlin, German Democratic Republic.

RAUCHHAUPT, Friedrich Wilhelm von, LL.D., PH.D., L. EN D.; German jurist; b. 13 Aug.1881, Wersk, West Prussia; s. of Berthold von Rauchhlaupt and Susanna Nitzsche; m. Ada C. Cameron 1911; one s.; Lecturer in Law, Heidelberg Univ. 1922; Visiting Prof. Buenos Aires Univ. 1926, 1967 and Santiago de Chile 1926; Extraordinary Prof. Heidelberg since 1929 (retd. 1946, reinstated 1956); hon. mem. of Reales Academias de Jurisprudencia y Legislación and de Ciencias Morales y Políticas, of Instituto de Estudios Políticos, Madrid, of the Facultad de Leyes y Ciencias Ponticas, Santiago de Chile, Int. Inst. of Space Law in the Int. Astronautical Fed., of the Scientific Soc. for Air and Space Legal Questions, Univ. of Buenos Aires 1967, Hermann Oberth-Gesellschaft, Bremen; Corresp. mem. Instituto Nacional de Derecho Aeronáutico y Espacial, Buenos Aires 1967, Brazilian Soc. of Aeronautical and Space Law 1970; mem. Int. Comm. for the Study of Orders of Chivalry 1970–; Dr. Jur. h.c., Prof. h.c.; Oberth Gold Medal 1977. *Publications:* Eigentümergrunddienstbarkeit 1906, Depositenrecht 1907, Verfassungsänderungen 1908, Zusammenarbeiten, Regeln des Preisgerichtes 1914, Handbuch der deutschen Wahlgesetze und Geschäftsordnungen 1916, Italienische Prisenordnung 1917, Türkei-Kapitulationen 1918, Geschichte der spanischen Gesetzesquellen 1923, Estudio comparativo entre el desarrollo del derecho español y el alemán 1923, Völkerrechtliche Eigentümlichkeiten Amerikas, insbes. Hispanoamerikas 1924, Correlaciones [redacted] el desarrollo de los derechos d[redacted] Europa y de América 1928, Rechte Europas (2 vols.). 1931-32, Völkerrecht 1936, 'auuber die Christichen Ritterorden 1953, 1956, 1958, 1960, 1970, Zur Geschichte der Familie v. R. 1955, Vergleich und Angleichbarkeit der Rechte Süd- und Mittel-Amerikas 1955, Der Aufbau des englischen Rechts, 5th edn 1965, Über die Atomenergie und Atomenergierecht 1957, Die Geschichte der spanischen Gesetzgebung seit 1923 1958, Die Hauptgebote des Neuen Testamentes: Gottesliebe, Nächstenliebe, Feindesliebe im geltenden Recht 1959, 1961, Überblick der Gesechichte des Völkerrechts in den spanisch-sprachigen Staaten von Europa und Amerika 1959. Die Zurückkehr zur rechten Gotteserkenntnis 1960, Die Wiederentdeckung des Völkerrechts durch Hugo Grotius 1961, Über Weltraumrecht 1962 (in French and Spanish 1974), El Derecho divino y el Derecho natural en el Derecho vigente 1962, 1972, In Genealogie Handbuch des Adels V. R. 1973; contributions to the First to Twentieth Colloquium on the Law of Outer

Space 1958-74, Die Weltraumflüge und die Rechtwissenschaft 1963 (also in English), Divine Law in Space Law 1971, and journal articles, etc.; many academic awards. *Leisure interests:* family history, 11th century crusades. *Address:* Plöck 45-49, D-69 Heidelberg, Federal Republic of Germany.

RAUNIO, Eino Albin; Finnish politician; b. 18 Jan. 1909, Sääksmäki; ed. elementary school and Workers' Acad.; began as lecturer; office manager of newspaper in Forssa 1936-40; mem. of Parliament 1939-; Chair. Forssa City Council 1964-; Chair. Finance Cttee. of Parl. 1966-; mem. Defence Council, State Science Council; Minister of Finance 1968-70. *Address:* Helsinki, Gyldenintie 5B, Finland. *Telephone:* 677197.

RAUSCHENBERG, Robert; American artist; b. 22 Oct. 1925, Port Arthur, Texas; s. of Ernest and Dora Rauschenberg; m. Susan Weil 1951 (divorced); one s.; ed. Kansas City Art Inst., Acad. Julien, Paris, Black Mountain Coll., North Carolina and Art Students League, New York; travel in Italy and North Africa 1952-53; Designer of Stage-Sets and Costumes for Merce Cunningham Dance Company 1955-65, Lighting for Cunningham Co. 1961-65; Costumes and Sets for Paul Taylor Dance Co. 1957-59; Choreography in America 1962-; affiliated with Leo Castelli Gallery, New York City 1957-; works in Tate Gallery, London, Albright-Knox Gallery, Buffalo, Whitney Museum of American Art, New York City, Andrew Dickson White Museum, Cornell Univ., Museum of Modern Art, N.Y., Goucher Coll. Collection, Towson, Maryland, Cleveland Museum of Art, Cleveland, Ohio, Kunstsammlung, Noedheim, Westfalen, Germany, etc.; numerous one-man shows in U.S.A. and Europe; Exhbn. at Stedelijk Museum, Amsterdam 1968; Travelling Retrospective Exhbn. organized by Smithsonian Inst. Nat. Collection of Fine Art 1976-78; First Prize, Venice Biennale 1964. *Address:* c/o Leo Castelli Gallery, 4 East 77th Street, New York, N.Y. 10021, U.S.A.

RAUTH, J. Donald; American business executive; b. 7 Jan. 1918; Pitman, N.J., m. Catherine Burns 1943; one s. one d.; ed. Drexel Univ., Philadelphia; joined Martin Company (predecessor of Martin Marietta Corpn.) 1940; Vice-Pres. and Gen. Man. Denver Div. 1961; Pres. Martin Marietta Aerospace 1967; Pres. Harvey Aluminium (now Martin Marietta Aluminium) 1969; Pres. Martin Marietta Corpn. 1972-77, Chair. 1977-, Chief Exec. Officer Sept. 1972-. *Address:* 6401 Garnett, Chevy Chase, Md. 20015, U.S.A.

RĂUTU, Leonte; Romanian politican; b. 28 Feb. 1910, Cernăuti; s. of Nicolae and Zefra Răutu; m. Natalia Răutu 1937; two d.; ed. Cernăuti and Bucharest; mem. Communist Youth 1929, Romanian Communist Party (RCP) 1931-; Sec. of Bucharest District Cttee. of RCP 1932-36; imprisoned for political activities 1931, 1934, 1935; Editor-in-Chief of Scînteia 1937-40; mem. Cen. Cttee. of RCP 1948–, Alt. Mem. of Political Bureau of the Cen. Cttee. 1955-65; Sec. Cen. Cttee. of RCP 1965-69, mem. Exec. Political Cttee. 1965–; Vice-Chair. Council of Ministers 1969-72; Prof. Univ. of Bucharest; Pres. Man. Council and Rector "Stefan Gheorghiu" Acad. 1972-; Deputy to Grand Nat. Assembly 1948-; mem. Acad. of Social and Political Sciences 1970-; Hero of Socialist Labour 1964; Order of Victory of Socialism 1974. *Leisure interests:* reading, travelling. *Address:* Academia Stefan Gheorghiu, Bulevard Armata Poporuli 1-3 Bucharest, Romania. *Telephone:* 313331.

RAVANEL, Jean, D. EN D.; French civil servant; b. 2 May 1920; ed. Faulty of Law, Grenoble Univ.; entered Civil Service 1945; Technical Adviser, Ministry of Public Works and Transport 1954-55; Dir. Cabinet of Minister of Agriculture 1958-62, and of Minister of Public Works and Transport 1962; Chair. Gen. Commissariat for Tourism 1963-70; Man. Paris Airport 1963-; Conseiller d'Etat 1968–; Chair. Ski France; Officier Légion d'honneur, Ordre nat. du Mérite, Aeronautical Medal. *Publications:* Le Conseil d'Etat et le Parlement, Les délégués du personnel. *Address:* 48 rue de la Tour, 75016 Paris, France.

RAVEGNANI, Giuseppe; Italian critic, journalist and author; b. 13 Oct. 1895; successively Literary Critic Il Resto del Carlino, Editor Il Corriere Italiano, Chief Reporter Il Regno, Editor La Fiera Letteraria, Literary Critic La Stampa, contributor to Corriere della Sera and numerous other papers; Dir. Il Corriere Padano, Il Gazzettino, La Gazzetta di Venezia, Chief Editor and now Literary Editor Epoca; Dir Biblioteca Ariostea, Ferrara; Premio Viareggio for Uomini Visti 1955, Premio Marzotto 1956. *Publications:* Antologia di Novelle Catalane (translation), Uomini Visti (2 vols.); numerous critical works on Ariosto and XIX century Italian literature. *Address:* Piazza Morbegno 5, Milan, Italy.

RAVENS, Karl Friedrich; German politican; b. 29 June 1927, Achim; s. of Fritz and Anna Ravens (née Kipka); m. Inge-Lore Treichel 1953; one s.; ed. apprenticeship in aircraft building; car mechanic 1945-52, apprentice instructor 1952-61; Alderman 1956–, mem. Kreistag (local council) 1957-, Deputy Major 1961-72; mem. Parl. (Bundestag) 1961-; mem. Nat. Exec. Social Democratic Party (SPD) 1968-69; Parl. Sec. of State to Minister for Housing and Town Planning 1969-72, to Fed. Chancellor Brandt 1972-74; Fed. Minister for Construction, Housing and Town Planning 1974-78; mem. Television Council, Second German Television (ZDF) 1974–; Grand Cross, Order of St. Olav (Norway) and other decorations. *Publications:* various essays on housing and urban politics in specialist periodicals. *Leisure interest:* gliding. *Address:* 2807 Achim–Bierden, Anne-Frank-Strasse 7, Federal Republic of Germany.

RAVIROSA WADE, Leandro; Mexican civil engineer; b. 11 June 1920; ed. Univ. Nacional Autónoma de México. Head of Plano Regulador del Departamento del D.F. and afterwards head of planning in this region; Dir. of Harbour Construction in the Secretaría de Marina and Pres. of Cámara de la Construcción; formed the building consortium, Constructora Randales, S.A. for the Netzahualcóyotl dam (Malpaso Province); Sec. of Water Resources 1970-76. *Address:* c/o Secretaría de Agricultura y Recursos Hidráulicos, Insurgentes Sur 476, México, D.F., Mexico.

RAWIRI, Georges; Gabonese government official and diplomatist; b. 10 March 1932, Lambarene, Gabon; m.; two c.; ed. Protestant school, Ngomo and Lycée Jean-Baptiste Dumas, Ales. Head Technical Centre Garoua Radio Station 1957, Libreville Radio Station 1959; a founder of Radio Gabon 1959; Dir. Radiodiffusion Gabonaise 1960, Radio-Télévision Gabonaise 1963; Counsellor for Foreign Affairs 1963; Minister of Information, Tourism, Posts and Telecommunications 1963-64; Minister of State and Amb. to France 1964-71, also accred. to Israel, Italy, Spain, U.K., Malta 1965-71, and Switzerland 1967-71; Minister of State for Foreign Affairs and Co-operation 1971-74, of the Govt. Office 1974-75, of Transport 1975-, Civil Aviation 1975-78 and the Merchant Navy April 1975–, Asst. to the Deputy Prime Minister 1978-; Grand Officer de l'Ordre de l'Etoile Equatoriale and decorations from Mauritania, France, Malta, and the Ivory Coast; Médaille d'Or des Arts, Sciences et Lettres; Grand Officier de l'Ordre Int. du Bien Public. *Address:* Bureau du Gouvernement, B.P. 2245, Libreville, Gabon.

RAWLINGS, Gen. Edwin William, B.A., M.B.A.; American corporation consultant; b. 11 Sept. 1904, Milroy, Minn.; s. of Frank Henry and Ella May Rawlings (née Frazier); m. Muriel Peterson Rawlings 1930; four s.; ed. Hamline Univ., Harvard Graduate School of Business Admin.; entered the Army 1929, progressed from flying cadet to four star Gen. 1954, Head, Air Material Command, Wright-Patterson A.F.B., Dayton 1951-59, retd. 1959; Financial Vice-Pres. Gen. Mills, Inc. 1959-60, Exec. Vice-Pres. 1960-61, Pres. 1961-67, Chair. of Board 1967-68, retd. 1969; D.F.C., D.S.M. with Oak Leaf Cluster, Air Force Assen.'s Citation of Honour; Hon. O.B.E.; Hon. Dr. of Business Admin. (Hamline, Tufts Univs.), Hon. D.Hum. (Dayton Univ.), Hon. LL.D. (Ohio Wesleyan, Miami Univs., Hendrix Coll.). *Leisure interests:* hunting, fishing. *Address:* 1903 First National Bank Building, Minneapolis, Minn 55402, U.S.A. *Telephone:* 612-338-7639.

RAWLINSON, Sir Anthony Keith, K.C.B., M.A.; British government official; b. 5 March 1926, Oxford; s. of Bishop Alfred Edward John Rawlinson and Mildred Ansley (née Ellis); m. Mary Hill 1956; three s.; ed. Eton Coll. and Christ Church, Oxford; served Grenadier Guards 1944-47, apptd. Lieutenant; entered Civil Service as Asst. Principal, Ministry of Labour and Nat. Service 1951; transferred to Treasury 1953, Principal 1955; seconded to U.K. Atomic Energy Auth. as private sec. to chair. 1958; returned to Treasury 1960, Asst. Sec. 1963, Under Sec. 1968, Deputy sec. 1972, Second Perm. Sec. 1977-; Econ. Minister, British Embassy, Washington, and U.K. Exec. Dir. IMF and World Bank 1972-75; Deputy Sec. Dept. of Industry 1975-76, Second Perm. Sec. 1976-77. *Leisure interest:* mountaineering. *Address:* H.M. Treasury, Parliament Street, London, S.W.1; 105 Corringham Road, London, NW11 7DL. *Telephone:* 01-233 3000 (Office); 01-458 3402 (Home).

RAWLINSON OF EWELL, Baron (Life Peer), cr. 1978, of Ewell in the County of Surrey; **Peter Anthony Grayson Rawlinson,** Kt., P.C., Q.C.; British lawyer and politician; b. 26 June 1919, Birkenhead, Cheshire (now Merseyside;) s. of Lieut.-Col. A. R. Rawlinson and Ailse Grayson Rawlinson; m. Elaine Angela Dominguez 1954, two s. one d.; three d. by previous marriage; ed. Downside and Christ's Coll., Cambridge; served in Irish Guards 1939-46; called to the Bar, Inner Temple 1946; mem. of Parl. 1955-78; Recorder of Salisbury 1961-62; Solicitor-Gen. 1962-64; mem. Bar Council 1966-68; Attorney-Gen. 1970-74; Attorney-Gen., Northern Ireland 1972-74; mem. Senate, Inns of Court 1968; Chair. of the Bar 1975-76; Chair. of Senate, Inns of Court and Bar 1975-76;

Recorder of Kingston upon Thames 1975-; Conservative. *Leisure interests:* painting, gardening. *Address:* 12 King's Bench Walk, London, E.C.4, England. *Telephone:* 01-353 5892.

RAY, Ajit Nath, M.A.; Indian judge; b. 29 Jan. 1912, Calcutta; s. of Sati Nath Ray and Kali Kumari Debi; m. Himani Mukherjee 1944; one s.; ed. Presidency Coll., Calcutta, Oriel Coll., Oxford and Gray's Inn, London; fmrly. practised as barrister, Calcutta High Court; Judge, Calcutta High Court 1957-69; Judge, Supreme Court of India 1969-73, Chief Justice 1973-77; Hon. Fellow, Oriel Coll., Oxford; Pres. Int. Law Asscn. 1974-76; Vice-Pres. Int. Law Asscn. 1977-; mem. Int. Permanent Court of Arbitration 1976-. *Address:* 15 Panditia Place, Calcutta 29, India. *Telephone:* 475213.

RAY, Dixy Lee, B.A., M.A., PH.D.; American marine biologist, administrator and politician; b. 3 Sept. 1914, Tacoma, Washington; d. of Alvis Marion Ray and Frances Adams Ray; ed. Mills coll., Oakland. Calif., Stanford Univ. Teacher Oakland, Calif. public schools 1938-42; John Switzer Fellow, Stanford Univ. 1942-43; Van Sicklen Fellow, Stanford Univ. 1943-45; Assoc. Prof. of Zoology, Univ. of Washington 1945-72; Exec. Cttee. Friday Harbour Laboratories 1945-60; Special Consultant biological oceanography, Nat. Science Foundation 1960-62; Dir. of Pacific Science Centre, Seattle 1963-72; Chief Scientist and Visiting Prof., Stanford Univ. Research ship Te Vega in Int. Indian Ocean Expedition 1964; Presidential Task Force on Oceanography 1969; mem. Atomic Energy Comm. 1972-75, Chair. 1973-75; Asst. Sec. of State 1975-77; Gov. (Democrat) Washington State Jan. 1977-; mem. Marshall Fellowship Cttee.; Guggenheim Fellow 1952-53; Hon. degrees Mills Coll. 1967, St. Martins Coll. 1972, Hood Coll. 1973, Seattle Univ. 1973, Ripon Coll. 1974, St. Mary's Coll. 1974, Puget Sound Univ. 1974, Michigan State Univ. 1974, Union Coll. 1974, Northern mich. Univ. 1974; Seattle Maritime Award 1966, William Clapp Award in Marine Biology 1959, Florence K. Hutchison Medal for service in conservation 1973, Francis Boyer Science Award 1974, YWCA 1974 Gold Medal Award, Outstanding Woman of Science Award, ARCS Foundation 1974; foreign mem. Danish Royal Soc. for Natural History 1963, and numerous other degrees, awards and prizes. *Publications:* Marine Boring and Fouling Organisms 1959; numerous articles on public understanding of science and scientific papers on marine biology. *Leisure interests:* American Indian culture, boating, gardening, hiking. *Address:* Office of the Governor, State Capitol, Olympia, Wash. 98504; 600 3rd Avenue, Fox Island; Wash. 98333, U.S.A. (Home). *Telephone:* (206) 753-5000.

RAY, Robert D., D.JUR.; american politician; b. 26 Sept.1928, Des Moines, Iowa; s. of the late Clark A. Ray and of Mrs. Mildred H. Ray; m. Billie Lee Hornberger 1951; three d.; ed. Drake Univ.; Chair. of Midwest Republican Chairmen's Assen. and Nat. Advisory Cttee. of Republican State Chairmen; State Chair. of March of Dimes; mem. of county, state and Nat. Bar Asscns and Trial Lawyers' Asscns.; mem. Nat. Acad. of Practising Law Inst. Hon. Mem. Board of Trustees of American Acad. of Achievement; State Chair. of Republican Party 1963-67; Gov. of Iowa 1968- (re-elected 1972, 1974). *Leisure interests:* sports, amateur photography. *Address:* State Capitol, Des Moines, Iowa 50319, U.S.A. *Telephone:* 515-281-5211.

RAY, Satyajit; Indian film director; b. 2 May 1921, Calcutta; s. of Sukumar Ray and Suprabha (née Das); m. Bijoya Das 1949; one s.; ed. Ballygunge Govt. School, Presidency Coll., Calcutta. Commercial artist in Calcutta before beginning his career in films; directed Pather Panchali 1954 (Cannes Int. Film Festival Award for "the most human document" 1956, Golden Laurel Award, Edinburgh Film Festival 1957), Aparajito 1956 (sequel to Pather Panchali, Grand Prix, Venice Film Festival 1957), The Philosopher's Stone, Jalsagar (The Music Room), Apur Sansar (The World of Apu), The Goddess 1961, Three Daughters 1961, Abhijan 1962, Kanchanjangha 1962, Mahanagar 1964, Charulata 1965, Kapurush-o-Mahapurush 1965, Nayak 1966, Chiriakhana 1968, The Adventures of Goopy and Bagha 1969, Days and Nights in the Forest 1969, Seemabaddha (Company Limited) 1970, Pratidwandi (The Adversary) 1971, Distant Thunder 1973, Golden Fortress 1974, The Middle Man 1975, Shratranj Ke Khilari (The Chessplayers) 1977; composed the music for all his films since Three Daughters; editor Sandesh, children's magazine; Hon. D. Litt. (Oxford Univ.) 1978; Magsaysay Award for Journalism and Literature 1967; Berlin Film Festival Prize for Distant Thunder 1973; Order of Yugoslav Flag 1971; Hon D.Litt. (Royal Coll. of Art, London) 1974, (Oxford) 1978. *Publications:* Our Films, Their Films 1977. *Leisure interests:* listening to classical music (Indian and Western), reading science fiction. *Address:* Flat No. 8, 1/1 Bishop Lefroy Road, Calcutta 20, India. *Telephone:* 44-8747.

RAY, Siddhartha Sankar; Indian politican and lawyer; b. 20 Oct. 1920, Calcutta; s. of the late Sudhir Chandra Ray and Shrimati Aparna Devi (Das); m. Maya Bhattacharya 1947; ed. Presidency Coll., Calcutta; called to the Bar, Inner Temple, London; Senior Advocate, Supreme Court; fmr. Minister of Law, Govt. of West Bengal; Leader of Opposition, West Bengal Govt. 1969; mem. Lok Sabha 1971-72, West Bengal Legislative Assembly 1972-77; Minister of Educ., Culture and Social Welfare and Minister in Charge, West Bengal Affairs, Govt. of India 1971-72; Chief Minister of West Bengal March 1972-77; mem. Working Cttee. congress Party, All India Congress Cttee., Congress Parl. Board. *Leisure interests:* reading, sports. *Address:* 1/19 Shanti Niketan, New Delhi; and 2 Beltola Road, Calcutta 700026, India. *Telephone:* 675203 (Office); 473465 (Home).

RAYMOND, Sir Stanley Edward, Kt., F.B.I.M., F.C.I.T.; British government official (retd.); b. 10 Aug. 1913; s. of Frederick George and Lilian Grace Raymond; m. Enid Buley 1938; one s.; ed. Orphanage and Grammar School, Hampton, Middlesex. Tax Officer, Civil Service 1930; Asst. Sec. Soc. of Civil Servants 1939-45; Royal Artillery 1942-45; joined London Passenger Transport Board 1946; Chief Staff and Welfare Officer, British Road services 1947-55, Chief Officer (Org.) 1952-55; Asst. Manpower Adviser, British Transport Comm. 1955-56, Dir. of Establishment and Staff 1956-57; Chief Commercial Manager, Scottish Region, British Railways 1957-59. Asst. Gen. Manager 1959-61; Traffic Adviser, British Transport Comm. 1961-62; Gen. Manager, Western Region of British Railways 1962-63, Chair. Western Railways Board 1963; mem. British Railways Board Oct. 1963-64, Vice-Chair, 1964-65, Chair. 1965-67; Chair. Gaming Board for Great Britain 1968-77; Chair. Horserace Betting Levy Board 1972-74; Chair. Habit Group of Companies 1966-68. *Leisure interests:* walking, writing, reading. *Address:* 26 Cavendish House, Kings Road, Brighton, Sussex, England. *Telephone:* 0273-23084.

RAYNE, Baron (Life Peer), cr. 1976, of Prince's Meadow in Greater London; **Max Rayne,** Kt.; British company director; b. 8 Feb. 1918, London; s. of Phillip and Deborah Rayne; m. 1st Margaret Marco 1941 (dissolved 1960), one s. two d.; m. 2nd Lady Jane Antonia Frances Vane-Tempest-Stewart 1965, two s. two d.; ed. Central Foundation School and Univ. Coll., London. Royal Air Force 1940-45; Chair. London Merchant Securities Ltd. 1960-; Dir. Carlton Industries Ltd. 1960-78, and other cos.; Gov. St. Thomas's Hospital 1962-74, Special Trustee 1974-; Gov. Royal Ballet School 1966-, Yehudi Menuhin School 1966-, Malvern Coll. 1966-, Centre for Environmental Studies 1967-73; mem. Gen. Council King Edward VII's Hospital Fund for London 1966-; mem. Council St. Thomas's Hospital Medical School 1965-; Chair. London Festival Ballet Trust 1967-75, Nat. Theatre Board 1971-; Founder Patron Rayne Foundation 1962-; Hon. Vice-Pres. Jewish Welfare Board 1966-; Hon. Fellow, Univ. Coll., London 1966, London School of Econs. 1974, Darwin Coll., Cambridge 1966, Royal Coll. of Psychiatrists 1977; Chevalier Légion d'honneur 1973; Hon. LL.D., London. *Address:* 100 George Street, London W1H 6DJ, England. *Telephone:* 01-935 3555.

RAYNER, Sir Derek George, Kt.; British businessman and civil servant; b. 30 March, 1926; s. of George Rayner and Hilda Rant; unmarried; ed. City Coll., Norwich, Selwyn Coll., Cambridge. service in RAF 1946-48; joined Marks and Spencer 1953, Dir. 1967–; Joint Man. Dir. 1973-; Special Adviser to Govt. 1970, 1978-; Chief Executive, Procurement Exec., Ministry of Defence 1971-72; Deputy Chair. Civil Service Pay Board 1978; mem. Design Council 1973-75, U.K. Permanent Security Comm. 1977-, Royal Coll. of Art; Fellow, Inst. of Purchasing and Supply 1970; *Leisure interests:* food, music; *Address:* Michael House, Baker Street, London, W.1, England.

RAYNOR, Geoffrey Vincent, M.A., D.SC., F.R.S.; British metallurgist; b. 2 Oct. 1913, Nottingham; s. of Alfred Ernest Raynor and Florence Lottie Raynor; m. Emily Jean Brockless 1943; three s.; ed. Nottingham High School and Oxford Univ.; D.S.I.R. Senior Research Award 1938; research work, Oxford Univ. 1940-44; I.C.I. Research Fellow, Univ. of Birmingham 1945-47, Reader in Theoretical Metallurgy 1947-49, Prof. of Metal Physics 1949-55, Feeney Prof. of Physical Metallurgy and Head of Dept. 1955-69; Deputy Dean, Faculty of Science and Eng. 1963-66. Dean 1966-69; Visiting Prof. Univ. of Chicago 1951-52; Batelle Visiting Prof., Ohio State Univ. 1962; Deputy Principal and Prof. of Physical Metallurgy, Univ. of Birmingham 1969-73, Prof. of Physical Metallurgy 1973-; Royal Soc. Leverhulme Visiting Prof. Witwatersrand Univ. 1974; Visiting Prof. Univ. of N.S.W., Australia 1975; Canadian Commonwealth Visiting Fellow Queen's Univ., Kingston, Ont. 1979; mem. of Council Inst. of Metallurgists 1974-77, Vice-Pres. 1977-; Sir George Beilby Memorial Award 1947; Rosenhain Medal of the Inst.

of Metals 1951; Heyn Medal of the Deutsche Gesellschaft für Metallkunde 1956; Fellow, Royal Soc. 1959; Hon. Fellow, Keble Coll., Oxford 1972; Pres. Birmingham Metallurgical Soc. 1965-66. *Publications:* Introduction to the Electron Theory of Metals 1953, The Physical Metallurgy of Magnesium and Its Alloys 1959, The Structure of Metals and Alloys (with W. Hume-Rothery) 1962, and numerous papers on theory of alloy formation and physical metallurgy. *Leisure interests:* gardening, walking, travel. *Address:* Department of Physical Metallurgy and Science of Materials, University of Birmingham, P.O. Box 363, Birmingham, B15 2TT; 94 Gillhurst Road, Harborne, Birmingham, B17 8PA, England. (Home). *Telephone:* 021-472 1301, Ext. 3230 (Office); 021-429 3176 (Home).

RAZAFIMBAHINY, Jules Alphonse; Malagasy jurist, economist and diplomatist; b. 19 April 1922. Mananjary; s. of Alphonse and Marguerite (née Ramasinoro) Razafimbahiny; m. Ravaoarisoa Razafy 1951; one s. one d.; ed. Institut de Droit des Affaires, Faculté de Droit, Paris, and Institut des Hautes Etudes Politiques, Paris. Pres. of Comm. of Overseas Countries associated with Econ. and Social Council of Common Market and EURATOM, Brussels 1958-60; Technical Counsellor to Minister of State for Nat. economy, Madagascar 1960-61; Minister Plenipotentiary 1962-; First Sec.-Gen. OAMCE (Org. Africaine et Malgache de Co-opération Economique) later called OCAM (Org. Commune Africaine Malgache et Mauricienne) 1962-64; Dir.-Gen. Foreign Affairs (Tananarive) 1964-65; Amb. to U.K., Italy, Greece and Israel 1965-67; Sec. of State for Foreign Affairs (Econ. and African Affairs) 1967-69; Amb. to U.S.A. 1970-72, to Belgium and European Communities 1973-78 (also accred. to Netherlands, Luxembourg, German Democratic Rep., Switzerland and Holy See); fmr. Pres. Admin. Council, Soc. d'Energie, Madagascar, Pan-African Inst. of Devt.; mem. Editorial Board, Soc. for Int. Devt. (Washington, D.C.), Board, Coll. of Econ. and Social Studies and Institut d'Etudes de Développement Economique et Social; Commdr. Ordre Nat. (Madagascar, Mauritania, Chad, Zaire, Comoro Islands), Officier Ordre Nat. (Upper Volta, Gabon); Grand Croix de l'Ordre de Saint Sylvestre (Vatican), Grand Croix de l'Ordre nat. de la Répub. Italienne and other decorations. *Leisure interests:* music, painting, tennis. *Address:* c/o Ministry of Foreign Affairs, Antananarivo, Madagascar.

RAZAFINDRABE, Armand; Malagasy diplomatist; b. 17 Sept. 1931. Tananarive (now Antananarivo); s. of Arthur Razafindrabe and Elisabeth Raheliarisoa; m. Françoise Gonin 1958; two d.; ed. Paris Univ.; Asst. Chief, Dept. of Econ. Affairs 1955, Chief of Dept. 1958-59; Admin. Officer, EEC 1959-60; Econ. and Commercial Counsellor, Embassy in Paris 1960-63; Perm. Rep. to EEC and Amb. to Belgium, Netherlands, Luxembourg and Switzerland 1963-73; Amb. to Japan 1974; Exec. Dir. IBRD, IFC, IDA Nov. 1974-; head of del. negotiating Yaoundé Conventions with EEC 1963-68, to UNCTAD 1964,1968, 1972, to ECOSOC 1968, 1970, 1972; Chair. or Vice-Chair. of UN African Group, Group of 1977 and other bodies 1964, 1966, 1968, 1970, 1971, 1972; mem. Exec. Council GATT 1963-; Commdr. Ordre Nat. Malgache; Grand Officer, Ordre de la Couronne de Belgique. *Leisure interests:* skiing, swimming, cooking, music, theatre. *Address:* 4200 Massachusetts Avenue, N.W., Washington, D.C. 20016, U.S.A.; 13 rue Gilbert, Meyrin, Geneva, Switzerland; 35 rue Rabibisoa, Antsahabe, Antananarivo, Madagascar. (Home). *Telephone:* (202) 244-0859 (Washington, D.C.); (022) 41-65-03 (Geneva); 212-15 (Antananarivo).

RAZALEIGH HAMZAH, Tengku Tan Sri Datuk, P.S.M., S.P.M.K.; Malaysian politician and fmr. company executive; b. c. 1936; s. of late Tengku Mohamed Hamzah bin Zainal Abidin (fmr. Chief Minister of Kelantan); ed. Queen's Univ., Belfast, and Lincoln's Inn, London. Chair. of Kelantan Div. of United Malays' Nat. Org. (UMNO) in early 1960s; mem. Kelantan State Assembly for [illegible] years; Exec. Dir. Bank Bumiputra 1963, Chair., Man. Dir. 1970; Exec. Dir. PERNAS 1971-74; Chair. Malaysian Nat. Insurance; led trade mission to Peking 1971; Vice-Pres. UMNO 1975–; Pres. Assoc. Malay Chambers of Commerce until Oct. 1976; Chair. PETRONAS (Nat. Oil Co.) 1974-76. Minister of Finance Oct. 1976–;Chair. IMF Meetings 1978-, Asram Devt. Bank 1977-, Islamic Devt. Bank 1977-. *Address:* Ministry of Finance, State Secretariat Building, Kuala Lumpur, Malaysia.

RÁZL, Stanislav; Czechoslovak politician; b. 13 April 1920, Sopotnice; one s. one d.; ed. School of Econs., Prague; worker 1939-44; Technician, Assen. for Chem. and Metallurgical Production, Ustí-on-Elbe 1945-48; Technician, Gen. Management of Chem. Industries, Prague 1948-51; Chief of Planning Dept., Deputy Minister, Ministry of Chem. Industry, Prague 1951-56; Enterprise Man., Assen. for Chem. and Metallurgical Production, Ustí-on-Elbe 1956-63; Chief Technologist and Economist, Tech. Econs. Research Inst. 1963-65; Dir. of Devt. Dept., Ministry of Chem. Industry 1965-68, Minister of Chem. Industry 1968; Premier of Czech Socialist Repub. Jan.-Sept. 1969, Deputy Premier 1969-; Minister of Planning 1969-71; Chair. Czech Planning Comm. 1971-; Deputy to House of Nations, Fed. Assembly of C.S.S.R. 1969-71; Chair. Govt. Environmental Council 1971-77; Award of Merit in Construction 1960, Order of Labour 1975. *Address:* Government Presidium of the Czech Socialist Republic, Prague, Czechoslovakia.

RAZUVAYEV, Grigoriy Alekseyevich; Soviet organic chemist; b. 23 Aug. 1895, Moscow; s. of Aleksey Grigoriyevich Razuvayev and Yekaterina Nikolayevna Razuvayeva; m. 2nd Yelena Vladimirovna 1946; two s. one d.; ed. Leningrad Univ.; Instructor Red Army Engineering Acad. 1925-27; Laboratory Head Inst. of High Pressure, U.S.S.R. Acad. of Sciences 1924-34; Prof. and Head of Chair. Gorky Univ. 1946-; Dir. Chemical Research Inst., Gorky Univ. 1956-, Inst. of Chemistry, Acad. of Sciences, U.S.S.R. 1963–; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-; Hon. Life mem. New York Acad. of Sciences 1975; Lenin Prize 1958, U.S.S.R. State Prizes 1971, 1976, Hero of Socialist Labour, Order of Lenin 1961, 1969, 1975 and other decorations. *Publications:* Reactions of Organometallic Compounds with Organic Peroxides (included in Vol. III of Organic Peroxides, publ. New York) 1972. *Leisure interest:* painting. *Address:* Institute of Chemistry, Academy of Sciences, U.S.S.R., Tropinina 1949, Gorky 603600, GSP-445; Prospect Gagarina 21/5, fl 7 Gorky 603022, U.S.S.R. *Telephone:* 65-49-09 (Office); 34-14-49 (Home).

REA, 2nd Baron, cr. 1935 and Baronet, of Eskdale; **Philip Russell Rea,** P.C., O.B.E., M.A., D.L., J.P.; British politician; b. 7 Feb. 1900, London; s. of 1st Baron Rea of Eskdale; m. Lorna Smith 1922; one s. (deceased) one d.; ed. Westminster School, Christ Church, Oxford, and Grenoble Univ. Underwriting mem. of Lloyds; Dir. Scottish & Mercantile Investment Co. Ltd.; served army 1914-18 and 1939-45 war; with Foreign Office 1946-50; Vice-Chair. Liberal Party Exec. 1951-54, Pres. Liberal Party 1955, Vice-Pres. 1970-; Liberal Leader, House of Lords 1955-67; Deputy Speaker, House of Lords; Chevalier, Légion d'honneur; Officer Belgian Order of the Crown; Croix de guerre with Palm; Grand Commdr. Ordre de Mérite. *Leisure interests:* music and travel. *Address:* 5 St. John's House, 30 Smith Square, London, S.W.1., England.

READ, Air Marshal Sir Charles Frederick, K.B.E., C.B., D.F.C., A.F.C.; retd. Australian air force officer; b. 9 Oct. 1918, Sydney; s. of Joseph F. Read and Ethel Mary Shelton; m. Betty Elsie Bradshaw 1946; three s.; ed. Sydney Grammar School and Imperial Defence Coll. Dir. Operations, Royal Australian Air Force 1960-64; Commandant, R.A.A.F. Acad., Point Cook, Vice. 1966-68; Officer Commanding R.A.A.F. Richmond, N.S.W. 1968-69; Deputy Chief of Staff R.A.A.F. 1969-72, Chief of Staff 1972-75; retd. 1975. *Leisure interest:* yachting. *Address:* 2007 Pittwater Road, Bayview, N.S.W., Australia. *Telephone:* 997-1686.

READ, Sir John Emms, Kt., F.C.A., F.B.I.M.; British business executive; b. 29 March 1918, Brighton; s. of William E. and Daysie E. (née Cooper) Read; m. Dorothy M. Berry 1942; two s.; ed. Brighton, Hove and Sussex Grammar School and Admin. Staff Coll., Henley-on-Thames. Commdr. Royal Navy 1939-46; Exec., Ford Motor Co. 1946-64; Exec. Dir. EMI Ltd. 1965, Joint Man. Dir. 1966, Chief Exec. 1969-, Man. Dir. 1969-73, Deputy Chair. 1973-74, Chair 1974-; Chair. Electronics Econ. Devt. Council; Dir. Dunlop Holdings Ltd., Thames Television, Capitol Industries-EMI Inc. (U.S.A.), EMI Australia, Pathé Marconi EMI France, Toshiba-EMI Japan, Post Office; mem. R.N. Film Corpn. 1975-, Engineering Industries Council, British Overseas Trade Board, Armed Forces Pay Review Board 1976-, Nat. Electronics Council 1977-, Council of Man., Brighton Festival Soc. 1977-; mem. of Court of Brunel Univ., Gov., Admin. and Staff Coll., Henley 1974-; Fellow, British Inst. of Management, Royal Soc. of Arts; Companion Inst. of Radio Engineers. *Leisure interests:* music, the arts, tennis. *Address:* EMI Limited, 20 Manchester Square, London, W1A 1ES; 21 Roedean Crescent, Brighton, England. *Telephone:* 01-486 4488 (Office); 0273-63280 (Home).

REAGAN, Ronald; American politician and former actor; b. 6 Feb. 1911, Tampico, Ill.; m. 1st Jane Wyman 1940 (divorced 1948), one s. one d.; m. 2nd Nancy Davis 1952, one s. one d.; ed. public schools at Tampico, Monmouth, Galesbury and Dixon, Illinois, and Eureka Coll. fmr. film actor and producer, radio sports announcer and editor, Central Broadcasting Co.; operated horse-breeding and cattle ranch; Player and Production Supervisor, Gen. Electric Theater TV for eight years; fmr. Pres. Screen Actors Guild, Motion Picture Industry Council; mem. Board of Dirs. Cttee. on Fundamental Educ., St. John's Hospital; U.S. Air Force 1942-46; Gov. of

Calif. 1967-74; Chair. Republican Govs. Assen. 1969; numerous awards; Republican. *Address:* 10960 Wilshire Boulevard, Los Angeles, Calif. 90024, U.S.A.

REALE, Oronzo; Italian lawyer and politican; b. 24 Oct. 1902; ed. Univ. degli Studi, Rome; Sec. Young Republican Fed. 1920-24; Founder-mem. and Exec. Partito d'Azione 1942; mem. Cttee. for Nat. Liberation; mem. Exec. Cttee. Italian Republican Party (P.R.I.) 1948-; [illegible] Chamber of Deputies 1958-; Political Sec. P.R.I. 1949-64; Minister of Justice 1964-68, 1970-71, 1974-76; Minister of Finance 1968-69; mem. Nat. Consultative Assembly 1945-46, Constitutional Court 1977-. *Address:* 1 Via del Pollaiolo 5, Rome, Italy. *Telephone:* 879432.

REARDON, Timothy James, Jr.; American government official; b. 18 May 1915; ed. Phillips Exeter Acad., Harvard Coll.; worked in Boston Advertising Agency 1938-41; Nat. Advertising Man., Lowell Sun Newspaper 1941-42; service in U.S.A.F. attaining rank of Captain 1942-46; Admin. Asst. to Senator John F. Kennedy 1947-60; Special Asst. to the Pres. for Cabinet Affairs 1961-64; Special Asst. to Chair. Federal Deposit Insurance Corpn. 1964-65, Exec. Asst. to Board of Dirs., F.D.I.C. 1965-. *Address:* Federal Deposit Insurance Corporation, Washington 1925, D.C.; 3134 Dumbarton Avenue, N.W., Washington, D.C. 20007, U.S.A. (Home)

REBBECK, Denis, C.B.E., M.A., M.SC., PH.D., B.LITT., D.L., J.P.; British shipbuilder; b. 22 Jan. 1914, Belfast, N. Ireland; s. of late Sir Frederick and Lady Rebbeck; m. Rosamond Annette K. Jameson 1938; four s.; ed. Campbell Coll., Belfast and Pembroke Coll., Cambridge. Asst. Man. Harland and Wolff Ltd., Belfast 1939, Dir. 1946, Deputy Man. Dir. 1953-62, Man. Dir. 1962-70, Chair. 1965-66; Dir. D. and W. Henderson Ltd. and A. and J. Inglis Ltd. 1946-68, Chair. 1957-68; Dir. Iron Trades Employers Insurance Assen. Ltd. and Iron Trades Mutual Insurance Co. Ltd. 1950-, Vice-Chair. 1969-72, Chair. 1972-; Belfast Harbour Commr. 1962-; Pres. Shipbuilding Employers' Fed. 1962-63; Dir. Colvilles Ltd., Glasgow 1963-67; Shipbuilding Corpn. Ltd., London 1963-73, Nat. Commercial Bank of Scotland Ltd. 1965-69; Royal Bank of Scotland Ltd. 1969-; mem. Royal Yacht Squadron; mem. Management Board, Engineering Employers Fed. 1963-75, Gen. Cttee., Lloyd's Register of Shipping; Akroyd Stuart Award, Inst. of Marine Engineers 1943; mem. Research Council and Chair. Design Cttee., British Ship Research Assen. 1965-73; mem. N. Ireland Econ. Council 1965-70; Vice-Pres. World Ship Soc. 1956-78, Pres. 1978-; mem. Council of Royal Inst. of Naval Architects 1964-72; mem. Court of Assts. and Renter Warden Worshipful Co. of Shipwrights; Dir. John Kelly Ltd. 1968-79, Deputy Chair. 1968-69, Chair 1969-79; Dir. Belships Co. Ltd. 1970-76, Chair. 1972-76; Special Consultant, Swan Hunter Group Ltd. 1970-79; Chair. Govt. Advisory Cttee. [illegible] Pilotage 1977–. *Leisure interest:* sailing. *Address:* The White House, Craigavad, Co. Down, BT18 0HE, N. Ireland, United Kingdom. *Telephone:* Holywood 2294.

REBELO DE SOUSA, Dr. Baltasar; Portuguese politician; b. 16 April 1922, Lisbon; s. of Antonio J. and Joaquina L. Rebello de Souza; m. Maria Das Neves F. Duarte 1947; three s.; ed. Faculty of Medicine, Univ. of Lisbon. Under-Sec. of State for Educ. 1955-61; Vice-Pres. Overseas Council 1963-68; Gov.-Gen. of Mozambique 1968-70; Deputy to Nat. Assembly; Minister of Health and Corpns. 1970-73, in charge of Emigration Problems 1971-73, of Overseas Provs. 1973-74; mem. Portuguese dels. to int. orgs.; Dir. of enterprises-S.P. Brazil; Univ. Prof. Legal Medicine (Brazil); mem. Board of Dirs. Assen. of Social Service and Portuguese League against Cancer; fmr. Prof. Inst. of Social Service; Grand Cross Ordem de Cristo, Ordem do Infante D. Henrique Portugal, Ordem do Cruzeiro do Sul, Ordem do Mérito Médico, Ordem do Mérito do Trabalho, Ordem Mérito Educativo (Brazil), Orden dos Cisneros (Spain), Grand Officer Ordem da Instrução Pública (Portugal), Ordem dos Santo Sepulchro's Cavaliers (Vatican), Grand Cross Ordem Colombo's Knights. *Publications:* Integral Preparation of Youth 1951, Unitary Concept of Medical Assistance and Social Assurance, Religion and Life 1952, Forms and Perspectives of Popular Culture 1956 (2nd edn. 1973), A Big Land and a Great People, One Year of Gov. 1968, Social State—reflections and basic concepts 1969, Pax Lusitana 1970, Social Political Perspectives (3 vols.) 1971, 1972, 1973. *Address:* R. António Carlos 624, São Paulo 01309, Brazil; R.S. Bernardo 102, Lisbon 2, Portugal. *Telephone:* 608150 (Lisbon); 2576846/2116022/2116211/2116416/2116750 (São Paulo).

REBEYROLLE, Paul; French artist; b. 3 Nov. 1926; ed. Lycée Gay-Lussac, Limoges. Exbns. at Salon des Indépendants, Salon d'Automne, Salon de Mai, Salon de la Jeune Peinture (France); Dir. Salon de Mai; works in collections in England, Sweden, Belgium, U.S.A., Poland, Italy, Japan, etc.; rep. at Dunn Int. Exhibition, London 1963; First Prize, la Jeune Peinture 1950, Fénéon Prize 1951, First Prize at French Section, Paris Biennale 1959. *Address:* 9 [illegible] Falguière, 75015 Paris, France.

REBLING, Eberhard, D.PHIL. German pianist and musicologist; b. 4 Dec. 1911, Ziegenhals, Königs Wusterhansen region; [illegible] Lin Jaldati; two d.; ed. Berlin Univ.; emigrated to Holland 1936; with resistance movement in Holland 1941-45; joined Netherlands CP 1946; Music Critic and Pianist, Amsterdam 1945-51; Sec.-Gen. Netherlands U.S.S.R. Soc. 1949-52; Chief Editor periodical Musik und Gesellschaft, Berlin 1952-59; joined SED 1960; Rector Deutsche Hochschule für Musik Hanns Eisler, Berlin 1959-71, Prof. 1959-; mem. Volkskammer 1963-, Steering Cttee. 1971-; Chair. Research Council for Music and Educ, Ministry of Culture; Nat. prize 1954, Peace Medal 1964, Vaterländischer Verdienstorder in Gold and other decorations. *Publications:* Een eeuw Nederlandse Danskunst 1950, Den Lustelijcken Mey 1950, Johann Sebastian Bach 1951, Ballett gestern und heute 1956, Ballett sein Wesen und Werden 1964, Ballet von A-Z 1966, Ballet Heute 1970, Der Tanz der Völker 1972, Ballettfibel 1974, Marius Petipa 1975. *Address:* 1251 Ziegenhals, Seestrasse 18, German Democratic Republic. *Telephone:* Zeuthen 836.

REBOCHO VAZ, Col. Camilo Augusto de Miranda; Portuguese army officer and administrator; b. 7 Oct. 1920, Avis; s. of Aurelio Rebocho Vaz and Marcelina da Conceição Miranda Vaz; m. Clotilde Gil da Assunção 1947; three s. two d.; ed. Univ. de Coimbra, Escola do Exército, Lisbon and Inst. de Altos Estudos Militares, Lisbon; mil. service in Portugal, Azores and Angola; 2nd Commdr., Infantry Regt., Luanda, Angola 1960; Commdr. of anti-terrorist activities 1961; Gov. District of Uige, Angola 1961-66; Gov. of Angola 1966-72; numerous military and civil decorations. *Publications:* Quatro Anos de Governo no Distrito do Uige, Angola 1967, Angola 1969, Dois Anos de Governo, Outros Dois Anos de Governo, Acção Governativa. *Leisure interest:* collecting shells and minerals. *Address:* c/o Ministério dos Negócios Estrangeiros, Lisbon, Portugal.

RECKITT, Basil Norman, M.A., T.D.; British business executive (retd.); b. 12 Aug. 1905, St. Albans; s. of Norman and Beatrice Reckitt (née Hewett); m. 1st Virginia Carre-Smith 1928 (died 1961), 2nd Mary Holmes 1966; three d.; ed. Uppingham and King's Coll., Cambridge; joined Reckitt & Sons Ltd., Hull 1927, Dir. 1937-72, later Chair.; Dir. Reckitt & Colman Ltd. 1953-72, Vice-Chair. 1953-65, Deputy Chair. 1965-66, Chair. 1966-70; Royal Artillery 1938-44; Mil. Govt., Germany 1944-45; Sheriff, Kingston upon Hull 1970-71; Chair. of Council, Hull Univ. 1971; Hon. LL.D. (Hull) 1967. *Publications:* History of Reckitt & Sons Limited, Charles I and Hull, The Lindley Affair. *Address:* Haverbrack, Milnthorpe, Cumbria, England.

REDAELLI SPREAFICO, Enrico; Italian iron and steel executive; b. 24 April 1911, Milan; ed. "Bocconi" Univ., Milan; joined Soc. Dalmine in IRI Group 1936; joined Finsider 1938, appointed Admin. Man. of Società Rejna, a firm in Finsider group 1943; Admin. Head, Società Cornigliano 1950, subsequently Admin. Man. and Asst. Gen. Man.; Gen. Man. Soc. Cornigliano 1958; Gen. Man. Italsider 1961, Man. Dir. 1962, 1972, Vice-Pres. 1972, Pres. 1973-77; Pres. CIMI Sidermar; Vice-Pres. ASSIDER; Dir. of Armco Finsider, C.M.F., Deriver, C.S.M., Alfa Romeo, Acciaierie di Piombino; mem. Ligurian Regional Financial Council; Cavaliere del Lavoro; Grand Ufficiale dell'Ordine Equestre del Santo Sepolcro di Gerusalemme. *Address:* Office: Corso Europa 13, 20122 Milan, Italy. *Telephone:* 7793.

REDCLIFFE-MAUD, Baron (Life Peer) cr. 1967, of City and County of Bristol; **John Primatt Redcliffe Maud,** G.C.B., C.B.E., M.A., A.B.; British diplomatist and college principal; b. 3 Feb. 1906, Bristol; s. of John Primatt Maud and Elizabeth Furse; [illegible] Jean Hamilton 1932; one s. three d. (one deceased); ed. Eton, New Coll., Oxford, and Harvard Coll. Fellow Univ.; Coll., Oxford 1929-39, Dean 1932-39, Univ. Lecturer in Politics, Oxford Univ. 1938-39; Councillor, Oxford City 1930-35; Master, Birkbeck Coll., Univ. of London 1939-43; Second Sec. Ministry of Food 1943-44; Second Sec. Ministry of Reconstruction 1944, Sec. 1945; Permanent Sec. Ministry of Education 1945-52, Ministry of Fuel and Power 1952-57, Ministry of Power 1957-58; mem. Economic Planning Board 1952-58; First Council Meeting, UNRRA 1943; Gen. Conf. UNESCO 1946, 1947, 1948, 1949, 1950, 1951; Exec. Board, UNESCO 1946-50; Pres. Exec. Board 1949-50; High Commr. in Union of South Africa and for Basutoland, Bechuanaland Protectorate and Swaziland, Jan. 1959-61, for Basutoland, Bechuanaland and Swaziland 1961-63; Ambassador South Africa 1961-63; Master of University Coll., Oxford 1963-76; Chair. Royal Comm. on Local Govt. in England 1966-69; High Bailiff of Westminster 1967-; Hon. Fellow New Coll.

1964-; Chair. Appts. Comm., Press Council 1973-75; Hon. LL.d. (Witwatersrand Univ. 1960, Natal Univ. 1963, Leeds Univ. 1967, Nottingham Univ. 1968); Hon. D.Soc.Sc. (Birmingham Univ.) 1968; Pres. Royal Inst. of Public Admin. 1974, British Diabetic Assn. *Publications:* English Local Government 1932, City Government: the Johannesburg Experiment 1938; contrib. to Oxford and the Groups 1934, Personal Ethics 1935, Man's Dilemma and God's Answer 1944, Education in a Changing World 1951. The British Tradition 1951, English Local Government Reformed 1974, Support for the Arts in England and Wales 1976, etc. *Address:* 221 Woodstock Road, Oxford, England.

REDDAWAY, William Brian, C.B.E., M.A., F.B.A.; British economist; b. 8 Jan. 1913, Cambridge; s. of William Fiddian Reddaway and Kate Waterland (née Sills) Reddaway; m. Barbara A. Bennett 1938; three s. one d.; ed. Oundle School, and King's Coll., Cambridge. Asst. Bank of England 1934-35; Research Fellow in Econs. Univ. of Melbourne 1936-37; Fellow of Clare Coll., Cambridge 1938–;Board of Trade 1940-47; Lecturer, Cambridge Univ. 1947-55, Dir. Dept. of Applied Econs. 1955-70; Reader in Applied Econs. 1957-65, Prof. of Political Economy 1969-; Econ. Adviser, Org. for European Econ. Co-operation (OEEC) 1951-52, Confederation of British Industries 1972-; Research Assoc. Centre for Int. Studies, New Delhi 1959-60; Visiting Lecturer, Econ. Devt. Inst., Washington 1966-67; Visiting Prof. Inst. of Devt. Studies, Dacca 1974-75; Head Inst. of Fiscal Studies Study on Tax Rates for British Man. 1977–;mem. Royal Comm. on the Press 1961-62; mem. Nat. Board of Prices and Incomes 1967-71; Editor, London and Cambridge Economic Bulletin 1951-74, Economic Journal 1971-76; Adam Smith Prize, Cambridge 1934. *Publications:* The Russian Financial System 1935, The Economics of a Declining Population 1939, The Measurement of Production Movements 1948, The Development of the Indian Economy 1962, The Effects of U.K. Direct Investment Overseas (interim report 1967, final report 1968), The Effects of the Selective Employment Tax (first report) 1970, (final report) 1973. *Leisure interests:* tennis, walking skating, squash. *Address:* 4 Adams Road, Cambridge, England. *Telephone:* 0223-50041.

REDDI, Bezwada Gopala; Indian politician; b. 5 Aug. 1907, Nellore A.P.; m. B. Lakshmikanthamma; three s. one d.; ed. Visva Bharathi Santiniketan; elected to Madras Ass. 1937, mem. 1937-46; Minister of Local Govt., Madras Govt. 1937-39, Minister of Finance 1947; Pro-Chancellor, A.P. Univ. 1951-57; Head of United Congress Legislative Party, A.P. Ass. 1955-; Chief Minister A.P. 1955-56, Home Minister 1956, Finance Minister 1957; Minister of Revenue and Civil Expenditure, Govt. of India 1958-61, Minister of Housing, Works and Supply 1961-62, Minister of Information and Broadcasting 1962-63; Gov. of Uttar Pradesh 1967-72; elected to Rajya Sabha 1958-60, to Lok Sabha 1962; mem. Indian Congress Party, Pres. A.P. Congress Cttee. 1953; Deputy Leader Congress Party 1965-67; Hon. D.Litt. *Address:* c/o Governor's Camp, Raj Bhavan, Lucknow, Uttar Pradesh, India.

REDDY, Kolli Venkata Raghunatha, M.A., LL.B.; Indian lawyer and politician; b. 4 Sept. 1924; ed. V. R. Coll., Nellore, and Annamalai Univ. and Lucknow Univ.; mem. Senate Annamalai Univ. 1947-59; Advocate, Madras High Court 1950, Supreme Court 1958, also Andhra Pradesh High Court; mem. Rajya Sabha 1962-; Union Minister of State for Industrial Devt. and Company Affairs 1967-70, of Company Affairs 1970-72, of Labour and Rehabilitation 1973-77. *Publications:* Criminal Law—Procedural and Substantial. *Address:* c/o Ministry of Labour and Rehabilitation, New Delhi, India.

REDDY, Kysasambally Chengalaraya, B.A., B.L.; Indian politician; b. 1902; ed. Pachaiyappa's Coll. and Law Coll., Madras, Univ. of Madras; mem. Mysore Legislature 1930-52; Pres. Kolar District Board 1933-37; fmr. Editor Janavani; Pres. Mysore Peoples' Federation 1935-37; effected coalition of Peoples' Fed. with Mysore Congress 1937; mem. Working Cttee., Mysore Congress 1937-52, Leader Parliamentary Party 1937-52, Pres. 1937-38 and 1946-47; mem. Exec. Council, All-India States Peoples' Conf. 1944-45, Rep. to U.K. and Continent 1945-46; mem. Constituent Assembly of India 1947-50; launched Satyagraha for the establishment of responsible govt. in Mysore State 1947; Leader Mysore Legislative Ass. (three times) and Chief Minister, Mysore State 1947-52; mem. Council of States 1952-57; M.P. (Lok Sabha) 1957, 1962-65; Gov. of Madhya Pradesh 1965-71; Union Minister of Production 1952-57; Minister of Works, Housing and Supply 1957-61, of Commerce and Industry 1961-64; LL.D. (h.c.). *Address:* Bhopal, Madhya Pradesh, India.

REDDY, Marri Channa, M.B., B.S.; Indian agriculturist and politician; b. 13 Jan. 1919; ed. Chadarghat High School and Osmania Univ.; left medical practice to devote himself to politics in Hyderabad; held organizational posts in Indian Nat. Congress Party; leader in Hyderabad Congress; mem. Rajya Sabha 1950-51; Minister of Agriculture, Andhra Pradesh 1952, later Minister of Planning, Rehabilitation, Panchyat Raj, Industry and Commerce, Commercial Taxes, Education and Finance, Andhra Pradesh; Union Minister of Steel, Mines and Metals 1967-68; Gov. of Uttar Pradesh 1974-77; Chief Minister of Andhra Pradesh Feb. 1978-. *Address:* Office of the Chief Minister, Hyderabad, Andhra Pradesh, India.

REDDY, Neelam Sanjiva; Indian politician; b. 19 May 1913, Illuru village, Anantapa District, Andhra Pradesh; ed. Adyar Arts Coll., Anantapur; Sec. Andhra Pradesh Congress Cttee. 1936-46; active in Satyagraha movement; mem. and Sec. Madras Legislative Assembly 1946; mem. Indian Constituent Assembly 1947; Minister for Prohibition, Housing and Forests, Madras Govt. 1949-51; Pres. Andhra Pradesh Congress Cttee. 1951-52; mem. Rajya Sabha 1952-53, Andhra Pradesh Legislative Assembly 1953-64; Deputy Chief Minister, Andhra Pradesh 1953-56, Chief Minister 1956-57; Leader of Andhra Congress Legislature Party 1953-64; Pres. Indian Nat. Congress 1960-62; Chief Minister of Andhra Pradesh 1962-64; Union Minister of Steel and Mines 1964-65, of Transport, Aviation, Shipping and Tourism 1966-67; mem. Lok Sabha from Hindupur, Andhra Pradesh and Speaker of Lok Sabha 1967-69; cand. in presidential election 1969; engaged in agriculture 1969-77; mem. Cttee. of Janata Party Jan. 1977; Speaker of Lok Sabha March-July 1977; Pres. of India July 1977-. *Address:* Office of the President, Rashtrapati Bhavan, New Delhi, India.

REDDY, Pingle Jaganmohan, B.E., M.B.B.S., F.R.C.S., B.COM., B.SC., LL.B.; Indian doctor and engineer; b. 23 Jan. 1910, Hyderabad; s. of late Sri Pingle Venkatarama Reddy and Smt. Chaudabai; m. Pramila J. Reddy 1935; three s. one d.; ed. Univs. of Leeds and Cambridge; legal practice 1937-46; Legal dept. Govt. of Hyderabad 1946-48; District and Sessions Judge, Secunderabad 1948; Puisne Judge, High Court, Hyderabad 1952-56; Judge, High Court, Andhra Pradesh 1956, Chief Justice 1966; Judge, Supreme Court of India 1969-75; Chair. Comm. of Inquiry into allegations against Barsi Lal and the Nagarvala Case 1977-; mem. Syndicate and Dean, Faculty of Law, Osmania Univ. 1952-59, Vice-Chancellor 1975-77. *Publications:* The Hyderabad Excess Profits Tax Act, Quest of Justice, Perspective in Education and Culture, Social Justice and the Constitution. *Address:* Plot No. 1, 7-1-22/15 Pingle Venkatram Bagh, Begumper P.O., Hyderabad. 500016, India.

REDFIELD, Alfred C., PH.D.; American teacher and research scientist; b. 15 Nov. 1890, Philadelphia, Pa.; s. of Robert S. Redfield and Mary T. Guillou; m. 1st Elizabeth S. Pratt 1913 (died 1920), 2nd Martha Putnam 1922; one s. two d.; ed. Haverford School, Haverford Coll., Harvard Univ., Christ's Coll., Cambridge, and Univ. of Munich; Asst. Prof. of Physiology 1919-20, Asst. Prof. 1921-30, Assoc. Prof. 1930-31, Prof. 1931-56, Emer. 1956-; Dir. Biological Lab., Harvard Univ. 1934; Visiting Prof., Stanford Univ. 1930; Walker Ames Prof., Univ. of Washington 1940; Senior Biologist, Woods Hole Oceanographic Inst. 1930-53, Senior Oceanographer 1954-46, Senior Oceanographer Emer. 1956-; mem. Emer. Nat. Acad. of Sciences; Hon. mem. Marine Biological Assn. of U.K. 1956-; Agassiz Medal 1956; Hon. Ph.D. (Oslo) 1956, Hon. D.Sc. (Lehigh) 1965, (Newfoundland) 1967, (Alaska) 1971. *Publications:* Numerous scientific papers in physiology, biochemistry and oceanography. *Leisure interests:* boating, painting, gardening. *Address:* 14 Maury Lane, Woods Hole, Mass., U.S.A. *Telephone:* 617-548-0987.

REDFORD, Robert; American actor; b. 18 Aug. 1937; ed. Van Nuys High School, Univ. of Colorado. *Films include:* War Hunt 1961, Situation Hopeless But Not Serious 1965, Inside Daisy Clover 1965, The Chase 1965, This Property is Condemned 1966, Barefoot in the Park 1967, Tell Them Willie Boy is Here 1969, Butch Cassidy and the Sundance Kid 1969, Downhill Racer 1969, Little Fauss and Big Halsy 1970, Jeremiah Johnson 1972, The Candidate 1972, How to Steal a Diamond in Four Uneasy Lessons 1972, The Way We Were 1973, The Sting 1973, The Great Gatsby 1974, The Great Waldo Pepper 1974, Three Days of the Condor 1975, All the President's Men 1976, A Bridge Too Far 1977. *Address:* c/o Pickwick Public Relations, 370 Lexington Avenue, New York, N.Y. 10017, U.S.A.

REDGRAVE, Sir Michael (Scudamore), Kt., C.B.E., M.A., D.LITT.; British actor and author; b. 20 March 1908, Bristol; m. Rachel Kempson 1935; one s. two d.; father of Vanessa Redgrave (*q.v.*); ed. Clifton Coll., Magdalene Coll., Cambridge, Germany and France; Liverpool Repertory Theatre 1934-36; Old Vic 1936-37; John Gielgud's Company 1937-38; Michel St. Denis's Company 1938-39, Old Vic 1949-50, Stratford-on-Avon Company 1951, 1953, 1958; appeared in Beggar's Opera and Thunder Rock 1940; served

in Royal Navy 1941-42; appeared in A Month in the Country 1943, Uncle Harry 1944, Macbeth (London and New York) 1947, Hamlet (London, Zürich, Elsinore and Holland Festivals) 1950, Winter Journey (Country Girl) 1952, Merchant of Venice, King Lear (Stratford-on-Avon, Anthony and Cleopatra (London, Stratford-on-Avon, Belgium, Paris) 1953-54, A Touch of the Sun, Hamlet (Stratford-on-Avon) 1958, The Aspern Papers 1959-60, The Tiger and the Horse 1960-61; toured Russia playing Hamlet 1958-59, The Complaisant Lover 1961-62, Out of Bounds 1962, Uncle Vanya 1962, 1963; National Theatre Co. Hamlet, Hobson's Choice, Uncle Vanya, The Master Builder 1963-64; Dir. opening season of Yvonne Arnaud Theatre, Guildford 1965; Dir. A Month in the Country 1965, The Old Boys 1971, Voyage Round My Father (London and Canada 1972, Australia 1973), The Hollow Crown (U.S.A.) 1973, Pleasure and Repentance (U.S.A.) 1974, Shakespeare's People (South Africa) 1975, South America and Canada 1976, Denmark, Canada and U.S.A. 1977; *films acted in include:* The Lady Vanishes, The Stars Look Down, Thunder Rock, The Way to the Stars, Dead of Night, Fame is the Spur, The Browning Version, The Importance of Being Earnest, The Dam Busters, The Innocents, The Loneliness of the Long Distance Runner, The Heroes of Telemark, The Hill, Oh! What a Lovely War!, Battle of Britain, Goodbye Mr. Chips, Connecting Rooms, Goodbye Gemini, The Go-Between 1971; Dir. Werther 1966, La Bohème, Glyndebourne 1967; Commdr. Order of Dannebrog 1955. *Publications:* The Seventh Man (play) 1936, Actor's Ways and Means 1953, Mask or Face 1955, The Mountebank's Tale (novel), The Aspern Papers (play) 1959, Circus Boy (play 1963. *Leisure interests:* reading, music. *Address:* 42 Ebury Mews, London, S.W.1; c/o Hutton Management Ltd., 33 Sloane Street, London, S.W.1, England.

REDGRAVE, Vanessa, C.B.E.; British actress; b. 30 Jan. 1937; d. of Sir Michael Redgrave (*q.v.*) and Rachel Kempson; m. Tony Richardson (*q.v.*) 1962 (divorced 1967); two d.; ed. Queensgate School, London, and Central School of Speech and Drama; Evening Standard Award, Best Actress 1961, and Variety Club Award 1961; Award for Best Actress, Cannes Film Festival 1966 for Morgan—A Suitable Case for Treatment; Award for Leading Actress, U.S. Nat. Soc. of Film Critics and Best Actress Award, Film Critics' Guild (U.K.) for Isadora Duncan 1969; Acad. Award (Best Supporting Actress) for Julia 1978; mem. Workers' Revolutionary Party (Cand. for Moss Side 1979). *Stage appearances in:* A Midsummer Night's Dream 1959, The Tiger and the Horse 1960, The Taming of the Shrew 1961, As You Like It 1961, Cymbeline 1962, The Seagull 1964, The Prime of Miss Jean Brodie 1966, Daniel Deronda 1969, Cato Street 1971, Threepenny Opera 1972, Twelfth Night 1972, Anthony and Cleopatra 1973, Design for Living 1973, Macbeth 1975, Lady from the Sea 1976 and 1979 (Manchester). *Films include:* Morgan—A Suitable Case for Treatment 1965, Sailor from Gibralter 1965, Camelot 1967, Blow Up 1967, Charge of the Light Brigade 1968, Isadore Duncan 1968, The Seagull 1968, A Quiet Place in the Country 1968, Dropout, The Trojan Women 1970, The Devils 1970, The Holiday 1971, Mary Queen of Scots 1971, Katherine Mansfield (BBC TV) 1973, Murder on the Orient Express 1974, Winter Rates 1974, 7% Solution 1975, Julia 1977, Agatha 1978, Yanks 1978; produced and narrated documentary film The Palestinians 1977. *Leisure interest:* changing the status quo. *Address:* 1 Ravenscourt Road, London, W.6, England. *Telephone:* 748 9015.

REECE, Hon. Eric Elliott, A.C.; Australian trade unionist and politician; b. 6 July 1909, Mathinna; s. of G. O. Reece; m. Alice L. Hanigan 1935; two s. (one deceased) two d.; ed. Launceston Jr. Tech. School; Organizer Australian Workers' Union, W. Tasmania 1935-46; mem. Fed. Exec. Australian Labor Party 40, 1949-59, Fed. Pres. 1952-53, 1954-55, Pres. Tasmanian Section 1948-59; Hon. Minister in charge of Housing and Building Supplies, Tasmania 1946-47; Minister for Lands and Works, Tasmania 1947-58, for Mines 1947-69; Premier of Tasmania 1958-69, Treas. 1959-69; Leader of the Opposition 1969-72; Premier, Treas., Minister for Mines, Tasmania 1972-75; mem. House of Assembly for Braddon, Tasmania 1946-75. *Leisure interest:* bowls. *Address:* 59 Howard Road, Glenorchy, Tasmania 7010, Australia.

REED, Oliver; British actor; b. 13 Feb. 1938, Wimbledon; s. of Peter Reed; divorced; one s. one d. *Films include:* The Rebel 1960, No Love for Johnnie 1961, Pirates of Blood River 1962, The Damned 1962, The System 1964, The Brigand of Kandahar 1965, The Trap 1966, The Shuttered Room 1966, The Jokers 1966, Hannibal Brooks 1968, Oliver 1968, The Assassination Bureau 1969, Women In Love 1969, The Lady in the Car 1970, The Devils 1971, The Hunting Party 1971, Z.P.G. 1972, Sitting Target, Triple Echo 1972, The Three Musketeers 1973, The Four Musketeers 1974, 10 Little Indians 1974, Tommy 1975, The Sellout 1975, Great Scout and Cathouse Thursday 1976, Burnt Offerings 1976, The Prince and the Pauper 1977, Assault on Paradise 1977, The Big Sleep 1978, The Brood 1979; Vice-Pres. Rosslyn Park Rugby Club. *Address:* c/o Omega Productions Suite, 505A Triumph House, 189 Regent Street, London, England.

REED, Philip Dunham, B.S. in E.E., LL.B.; American corporation executive; b. 16 Nov. 1899, Milwaukee, Wis.; s. of William Dennis Reed and Virginia (Dunham) Reed; m. Mabel M. Smith 1921; one s. one d.; ed. Univ. of Wisconsin and Fordham Univ.; with law firm 1921-; Vice-Pres. and Patent Counsel Van Heusen Products Inc. 1922-26; with Gen Electric Co. 1926-42 and 1945-59, mem. Law Dept., Asst. to Pres. and Dir. 1937-39, Chair. 1940-42, 1945-58, Chair. of Finance Cttee. 1946-59, Dir. Emer. 1968-; Chair. Int. Gen. Electric Co. until merger with parent co. 1945-52; Chief, Bureau of Industries, War Production Board 1942-; Deputy Chief U.S. Mission for Econ. Affairs, London 1942-43, Chief 1943-45; Consultant to U.S. Del. to San Francisco Conf. 1945; Chair. U.S. Del. Anglo-American Council on Productivity 1948-52; mem. Comm. on Inff. of U.S., Inf. Agency 1948-61; Pres. Int. Chamber of Commerce 1949-51, now Hon.. Pres.; mem. The Business Council 1940-, Vice-Chair. 1951-52; Trustee and mem. Research and Policy Cttee. of Cttee. for Econ. Devt. 1946-, Chair. 1948-49; Special Amb. to Mexico 1958; Dir. Fed. Reserve Bank of N.Y. 1959-65, Chair. 1960-65; Dir. of numerous companies; President's Certificate of Merit Award; Commdr. de la Légion d'honneur; hon. LL.D. (Union Coll., Brooklyn Polytechnic Inst., Univ. of Wisconsin, Swarthmore Coll.); Hon. D.Eng. (Rensselaer Polytechnic Inst.); Hon. Dr.Comm.Sc. (N.Y. Univ.); Republican. *Address:* 375 Park Avenue, N.Y10022 (Office); Rye, N.Y. 10580, U.S.A. (Home). *Telephone:* 212-PL2-1550.

REED, Thomas C., M.S.; American public official; b. 1 March 1934, New York, N.Y.; m. Leslie Jean Papenfus; three c.; ed. Cornell Univ. and Univ. of S. California. First Lieut, U.S.A.F. 1956-61; Second Engineer, Avco Research Laboratory 1961; Consultant, Lawrence Radiation Laboratory, Univ. of Calif. 1962-67; Gen. Man. Supercon Ltd. 1963-65; Appointments Sec. Office of the Gov. of California 1967; Chair., Pres., Treas. Quaker Hill Devt. Corp. 1965-73; Pres. Breckenridge Co. 1971-73; Asst. to Sec. and Deputy Sec. of Defence 1973, Dir. of Telecommunications and Command Control Systems, Dept. of Defence 1974-75, Sec. of the Air Force 1975-77. *Address:* c/o Department of the Air Force, The Pentagon, Washington, D.C. 20330, U.S.A.

REEDY George, Edward, Jr.; American government official and educationist; b. 5 Aug. 1917, East Chicago, Ind.; s. of George E. and Mary Mulvaney Reedy; m. Lillian Greenwald 1948; two s.; ed. Univ. of Chicago. Congressional Corresp. United Press, Washington, D.C. 1938-41, 1946-51; U.S. Army Air Corps 1942-45; Staff Dir. U.S. Senate Minority Policy Cttee. 1953-54, Majority Policy Cttee. 1955-60; Special Asst. to Vice-Pres. Lyndon B. Johnson 1961-63, Press Sec. to the Pres. 1964-65, Aide to the pres. 1965-66, Special Consultant to the Pres. 1968-69; Pegram Lecturer, Brookhaven Nat. Radiation Laboratory 1971; Adjunct Prof. of Political Science, State Univ. of New York 1971-72; Dean College of Journalism 1972-76; Lucius W. Nieman Prof. of Journalism, Marquette Univ. Sept. 1972-; American Specialist lecturing in South America 1976, Asia 1977, under U.S. State Dept. Cultural Exchange Program; mem. and chair. numerous govt. comms. and boards of enquiry 1966-68; Vice-Pres. for Planning, Struthers Wells Corpn. 1966-; Fellow, Woodrow Wilson Int. Center for Scholars 1970-; Duke Univ. Fellow in Communications 1973-74; Poynter Fellow, Univ. of Indiana 1974. *Publications:* Who Will Do Our Fighting For Us? 1969, The Twilight of the Presidency 1970, The Presidency in Flux 1973.*Leisure interests:* music, fishing. *Address:* College of Journalism, Marquette University, Milwaukee, Wisconsin (Office); 2307 East Newberry Boulevard, Milwaukee, Wisconsin 53211, U.S.A. (Home). *Telephone:* 414-224-7132 (Office).

REES, Albert Lloyd George, C.B.E., D.SC., PH.D., D.I.C., F.R.A.C.I., F.A.A.; Australian scientist; b. 15 Jan. 1916, Melbourne; s. of George P. Rees and Edith Targett; m. Marion Mofflin 1942; three d.; ed. Univs. of Melbourne and London; Lecturer in Chem., Univ. of W. Australia 1939; Beit Scientific Research Fellow, Imperial Coll., London 1939-41; Extra-Mural Research in Chem. Defence, Ministry of Supply, U.K., 1939-41; Research and Devt. Philips Electrical Industries, U.K. 1941-44; with Commonwealth Scientific and Industrial Research Org. (CSIRO) 1944-78, Chief Div. of Chemical Physics 1958-78; Chair. Chem. Research Labs. 1961-70; mem. Bureau and Exec. Cttee., Int. Union of Pure and Applied Chem. 1963-73, Vice-Pres. 1967-69, Pres. 1969-71; mem. Exec. Cttee. ICSU 1969-72, Gen. Cttee. ICSU 1972-76; Pres. Royal Australian Chem. Inst. (R.A.C.I.) 1967-68; mem. Council, Australian Acad. of Science 1963-68, 1969-73; mem. Board of Studies, Victoria Inst. of Colls. 1968-, mem. Council 1978-, Hon. D.App.Sc.; Liversidge Lecturer, Royal

Soc. of N.S.W. 1952; Einstein Memorial Lecturer, Australian Inst. of Physics 1970; Rennie Medal 1946, H.G. Smith medal (R.A.C.I.) 1951, Leighton Memorial Medal (R.A.C.I.) 1970. *Publications:* Chemistry of the Defect Solid State 1954, and many articles in learned journals. *Leisure interests:* golf, music, gardening. *Address:* 9 Ajana Street, North Balwyn, Victoria 3104, Australia. *Telephone:* 857-9358.

REES, Rt. Hon. Merlyn, P.C., M.SC.(ECON.); British lecturer and politician; b. 18 Dec. 1920, Cilfynydd; s. of late L. D. Rees and of E. M. Rees; m. Colleen Faith Cleveley 1949; three s.; ed. Harrow Weald Grammar School, Goldsmiths' Coll., London and London School of Econs.; served R.A.F. 1941-46, rank of Squadron Leader; Teacher, Harrow Weald Grammar School 1949-60; Labour Party Head Office 1960-62; Lecturer Luton Coll. of Technology 1962-63; mem. Parl. for Leeds South 1963-; Parl. Private Sec. to Chancellor of Exchequer 1964-65; Under-Sec. Ministry of Defence 1965-68, Home Office 1968-70; Opposition Spokesman for N. Ireland 1970-74; Sec. of State for N. Ireland 1974-76; Home Sec. 1976-79, Opposition Spokesman for Home Affairs June 1979-. *Publications* The Public Sector in the Mixed Economy 1973. *Leisure interest:* reading. *Address:* House of Commons, London, S.W.1, England.

REES, Mina, PH.D.; American mathematician and university administrator; b. 2 Aug. 1902, U.S.A.; d. of Moses Rees and Alice L. Stackhouse; m. Dr. Leopold Brahdy 1955 (deceased); no c.; ed. Hunter Coll., Columbia Univ. and Univ. of Chicago; Instructor eventually Prof. of Mathematics and Dean of Faculty Hunter Coll. 1926-43, 1953-61; Technical Aide and Exec. Asst. to Chief of Applied Maths. Panel, Office of Scientific Research and Devt. 1943-46; Head, Mathematical Branch, subsequently Dir., Mathematical Sciences Div., Office of Naval Research 1946-53; Prof. City Univ. of New York 1961-72, Prof. Emer. 1972-; Dean of Graduate Studies 1961-68, Provost 1968-69, Pres. Graduate School 1969-72, Pres. Emer. 1972-; mem. Nat. Science Board 1964-70; Chair. Council of Graduate Schools in U.S. 1970; Pres. American Assn. for Advancement of Science 1971; numerous awards including Achievement Award, American Assn. of Univ. Women 1965, President's Medal, Hunter Coll. 1970, and Elizabeth Blackwell Gold Medal 1971, Chicago Univ. Alumni Medal, Chancellor's Medal City Unit. of New York 1972; seventeen hon. degrees. *Publications:* articles in journals. *Leisure interest:* painting. *Address:* Graduate School and University Center, City University of New York, 33 West 42nd Street, New York, N.Y. 10036; 301 East 66th Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* 212-790-4467 (Office); 212-879-9467 (Home).

REES-MOGG, William; British journalist; b. 14 July 1928, Bristol; s. of Edmund Fletcher Rees-Mogg and Beatrice (née Warren); m. Gillian Shakespeare Morris 1962; two s. two d.; ed. Charterhouse and Balliol Coll., Oxford; Pres. Oxford Union 1951; Financial Times 1952-60, Chief Leader Writer 1955-60, Asst. Editor 1957-60; City Editor Sunday Times 1960-61, Political and Econ. Editor 1961-63, Deputy Editor 1964-67; Editor of The Times 1967-; Dir. The Times Ltd. 1968-, mem. Exec. Board Times Newspapers Ltd. 1968–, Dir. 1978-; Hon. LL.D. (Bath) 1977. *Publications:* The Reigning Error: the Crisis of World Inflation 1974, An Humbler Heaven 1977. *Leisure interest:* book collecting. *Address:* The Times, P.O. Box 7, New Printing House Square, Gray's Inn Road, London, WC1X 8EZ; 3 Smith Square, London, S.W.1; and The Old Rectory, Hinton Blewett, Nr. Bristol, Avon, England.

REEVES, Rt. Rev. (Richard) Ambrose, M.A.; British ecclesiastic; b. 6 Dec. 1899, Norwich; s. of Mr. and Mrs. Richard Reeves; m. A. Margaret van Ryssen; two s. (one deceased) two d.; ed. Sidney Sussex Coll., Cambridge, Coll. of the Resurrection, Mirfield, and General Theological Seminary, New York; Sec. Theological Coll. Dept. of Student Christian Movement, Curate of St. Alban's, Golders Green, London 1926-31; Rector, St. Margaret's Church, Leven, Fife 1931-35; Sec. World's Student Christian Red., Geneva 1935-37; Vicar St. James's Church, Haydock 1937-42; Rector of Liverpool 1942-49; Bishop of Johannesburg 1949-61; deported from South Africa Sept. 12th, 1960; Sec. Student Christian Movement 1962-65; Asst. Bishop of London 1962-66; St. Michael's Church, Lewes 1966-72, and Asst. Bishop of Chichester 1966-; Pres. Anti-Apartheid Movement 1970-; Prelate Order of St. John of Jerusalem 1953; S.T.D. (General Theological Seminary, New York); Fellow, Ancient Monuments Soc.; Hon. Fellow, Sidney Sussex Coll., Cambridge 1960; Hon. D.Lit. (Sussex Univ.) 1975. *Publications:* Shooting at Sharpeville: the Agony of South Africa 1960, South Africa—Yesterday and Tomorrow 1962, Let the Facts Speak 1962, Calvary Now 1965. *Leisure interests:* gardening, travel and family. *Address:* 29 Church Street, Shoreham-by-Sea, Sussex, England. *Telephone:* Shoreham 62555.

REFSHAUGE, Major-Gen. Sir William Dudley, Kt., C.B.E., E.D., M.B., B.S., F.R.C.O.G., F.R.A.C.S., F.R.A.C.P., F.A.C.M.A.; Australian health official; b. 3 April 1913, Melbourne; s. of Francis C. Refshauge and Margaret I. Brown; m. Helen E. Allwright 1942; four s. one d.; ed. Hampton High School and Scotch Coll., Melbourne and Melbourne Univ.; Resident Medical Officer, Alfred Hosp., Melbourne 1939, Women's Hosp. Melbourne 1946; Registrar, Women's Hosp. 1946-47, Medical Supt. 1948-51; Deputy Dir.-Gen. Army Medical Services 1951-55, Dir.-Gen. 1955-60; Commonwealth of Australia Dir.-Gen. of Health 1960-73; Chair. Nat. Health and Medical Research Council 1960-, Commonwealth Council for Nat. Fitness 1960-, Commonwealth Health Insurance Council 1960-, etc.; mem. Exec. Board, WHO 1967-70, Chair. 1969-70; Pres. World Health Assembly 1971; Sec.-Gen. World Medical Assn. 1973-76; Patron Australian Sports Medicine Assn.; Nat. Trustee Returned Services League of Australia 1963-73, 1976-; Chair. Board of Man. Canberra Girls Grammar School 1977. *Publications:* various publications in Medical Journal of Australia and New Zealand Medical Journal. *Leisure interests:* bowls, gardening. *Address:* 26 Birdwood Street, Hughes, A.C.T. 2605, Australia. *Telephone:* 81093.

REGAN, Donald Thomas; American investment executive; b. 21 Dec. 1918, Cambridge, Mass.; s. of William F. regan and Kathleen (née Ahern) Regan; m. Ann Gordon Buchanan 1942; two s. two d.; ed. Harvard Coll.; joined Merrill Lynch 1946, partner 1953; Vice-Pres. Merrill Lynch, Pierce, Fenner & Smith Inc. 1959, Exec. Vice-Pres. 1964, Chair. of Board and Chief Exec. Officer Jan. 1971–; Chair. of Board and Chief Exec. Officer Merrill Lynch and Co. Inc. 1973–; Dir. Securities Investor Protection Corpn. 1971-73, Beekman Downtown Hospital 1969-73; Trustee, Charles E. Merrill Trust and Univ. of Pennsylvania; Hon. LL.D. Hahnemann Medical Coll. and Hospital and Tri-State Coll. *Address:* One Liberty Plaza, 165 Broadway, New York, N.Y. 10006; Van Beuren Road, New Vernon, N.J. 07976, U.S.A. (Home) *Telephone:* 212-766-1212.

REGAN, Hon. Gerald Augustine, Q.C.; Canadian politician; b. 13 Feb. 1928, Windsor, Nova Scotia; s. of Walter E. Regan and Rose M. Greene; m. A. Carole Harrison 1956; three s. two d.; ed. St. Mary's Univ. and Dalhousie Univ.; fmrly. practising lawyer; mem. Parl. for Halifax 1963; Leader Liberal Party of Nova Scotia 1965–; mem. Nova Scotia Legislature 1967-; Premier of Nova Scotia 1970-78, Leader of the Opposition 1978-. *Leisure interests:* tennis, skiing. *Address:* c/o Ste. 1212-Bank of Commerce Tower, Halifax, Nova Scotia, Canada. *Telephone:* 424-3281.

REGAN, Leonard, F.B.I.M.; British business executive; b. 1 June 1917, Colne, Lancs.; s. of Harry Regan and Sarah Riley; three d.; ed. Nelson Grammar School, Nelson Tech. Coll., Manchester School of Art; Dir. Samuel Holden Ltd. 1958-60, Hindley Bros. (Holdings) Ltd. 1960-64, Carrington & Dewhurst Group Ltd. 1968-72; Dir. Carrington Viyella Ltd. 1972-74, Deputy Chair. 1974-75, Chair. 1975-; Chair. Gelvenor 'Textiles 1975-; Dir. Carrington Tesit (Italy) 1975-, Consolidated Textile Mills, Montreal 1975-, Pres. British Textile Confederation 1978-, Chair. Centre for Physical Distribution Man. 1978-. *Leisure interests:* golf, skiing, fishing, painting. *Address:* 1 Sandy Hall Lane, Barrowford, Nelson, Lancs.; Flat 25, 7 Prince's Gate, London, S.W.7, England. *Telephone:* Nelson 65449.

REGGIANI, Serge; Italian-born French actor and singer; b. 2 May 1922, Reggio nell' Emilia; s. of Ferruccio Reggiani and Letizia Spagni; m. 1st Janine Darcey; one s. one d.; m. 2nd Annie Noël; two s. one d.; ed. Conservatoire Nat. d'Art Dramatique; notable theatrical roles in Britannicus, Les parents terribles, Un homme comme les autres, Les trois mousquetaires, les s'aaequestrés d'Altona, etc.. *Films include:* Le carrefour des enfants perdus, Les portes de la nuit, Manon, Les amants de Vérone, La ronde, Casque d'or, Napoléon, Les salauds vont en enfer, Les misérables, Marie Octobre, La grande pagaille, La guerre continue, Tutti a casa, Le Doulos, Le guépard, Marie-Chantal contre le Docteur Kah, Les aventuriers, La 25e heure, La mafia fait la loi, L'armée des ombres, Comptes à rebours, Touche pas la femme blanche 1974, Vincent, François, Paul ... et les autres 1974, Le chat et la souris 1975, Une fille cousue de fil blanc 1977. *Address:* Le Redon, 06370 Mouans-Sartoux, France.

REGNIER, Charles; German actor and theatrical director; b. 1915; ed. school of dramatic art; acted in Vienna, Zürich, Hamburg, Cologne, Munich, Düsseldorf, Bochum and Wuppertal; appeared in many films; trans. works of Giraudoux, Cocteau, Maugham, Feydeau, Labiche, Mauriac, Colette, Barillet-Gredy, Dorin; German Critics' Prize 1955. *Address:* 8194 Ambach/Starnbergersee, Federal Republic of Germany. *Telephone:* 08177-532; and 08151-4466.

REHBERG, Poul Kristian Brandt, M.S.C., D.PHIL.; Danish zoologist; b. 29 March 1895, Middelfart; s. of Adolf Boëtius and Marie Jakobe Rehberg (née Brandt); m. Ally Margrethe Madsen 1955;

one d.; Asst. University Zoophysiological Lab., Univ. of Copenhagen 1921; Reader 1936; Prof. of Zoophysiology, Univ. of Copenhagen 1945-65; mem. Videnskabernes Selskab 1944; Defence Research Cttee. 1952-60; Chair. of Danish Cttee. Int. Union of Biological Sciences 1947-64; mem. Danish State Research Foundation 1952-61, Chair. Nat. Science section 1959-61; Chief Adviser, Civil Defence Research 1950-60; mem. Board and Exec. Politiken; Exéc. mem. Danish Atomic Energy Comm. 1956, Chair. 1962-70; Vice-Pres. World Assen. of World Federalists 1956, Acad. of Technical Science, Copenhagen 1957; mem. NATO Science Cttee. 1957-60, Danish Science Advisory Council 1966-69; Board of Carlsberg Foundation 1960-71, Chair. 1969-72; mem. Board and Vice-Chair. United Breweries Carlsberg/Tüborg 1970-71; Chair. Research Fund for Congenital Diseases 1964-73; Hon. M.D. (Lund) 1950, Hon. M.V.D. (Copenhagen) 1958. *Publications:* Studies [redacted] Kidney Function 1926; various textbooks on physiology. *Address:* Vester Søgade 146, Copenhagen V, 1601, Denmark. *Telephone:* 01-13-02-48; 03-45-44-86 (summer).

REHNQUIST, William H., LL.B., M.A.; american judge; b. 1 Oct. 1924, Milwaukee, Wis.; m.; ed. Stanford and Harvard Univs.; law clerk to U.S. Supreme Court Justice R. H. Jackson 1952-53; private practice, Evans, Kitchel and Jenckes, Phoenix, Ariz. 1953-57, Cunningham, Messenger, Carson & Elliott 1957-60, Powers & Rehnquist 1960-69; Asst. Attorney-Gen., Office of Legal Counsel, Dept. of Justice 1969-71; Assoc. Justice, Supreme Court of U.S.A. Dec. 1971–; mem. American Bar Assen., American Judicature Soc., etc. *Address:* Supreme Court of the United States, Washington, D.C. 20543, U.S.A.

REICH, John Theodore, PH.D.; Austrian-born American theatrical director; b. 30 Sept. 1906, Vienna; s. of Leopold Reich and Martha (Baxter) Reich; m. 1st Karoline Friederike van Kurzweil 1932 (deceased), 2nd Karen Ruth Lasker 1957; ed. Realgymnasium I, and Max Reinhardt School, Vienna, Vienna and Cornell Univs.; Dramaturgist and Asst. Producer, Burgtheater, Vienna 1931-32; Dramaturgist and Producer, Max Reinhardt Theatres, Vienna 1932-38; Asst. Producer, later Producer, Salzburg Festivals 1934-37; Asst., later Assoc. Prof. of Drama, Ithaca Coll., N.Y. 1938-45; Drama Dir. D.B.S. Television, New York 1945-46; Assoc. Prof. of Theatre, Smith Coll., Barnard Coll. 1947-51; Asst., later Assoc. Prof. of Theatre, Columbia Univ., Supervisor of Production Training, New York TV Workshop and also independent producer 1951-57; Head, Goodman Theatre and School of Drama, Chicago Art Inst. 1957-73; Dir. Ford Foundation's Theatre Communications Group 1965-72; Producing Dir. Goodman Theatre Resident Co. 1969-73; Principal Guest Dir. Calif. Actor's Theatre 1975-, Missouri Rep. Theatre, Juilliard School; freelance Dir. Dallas Theatre Center, Miami Ring Theatre, Penn State Theatre, etc.; Ford Foundation Award 1959; Chevalier, Ordre des Arts et Lettres 1964; Grand Badge of Honour, Austria 1971; Dr. h.c. (Lake Forest Coll., Illinois) 1972. *Publications:* Mary Stuart (adaptation of Schiller's play, with Jean Goldstone) 1958; numerous other adaptations and articles. *Leisure interests:* music, hiking. *Address:* 724 Bohemia Parkway, Sayville, N.Y. 11782, U.S.A. *Telephone:* 516-589-5997.

REICHELDERFER, Donald E.; American business executive; b. 1909, Cridersville, Ohio; m. Gladys V. Kennard; one s. one d.; ed. Ohio State Univ.; joined Armco Steel Corpn. (now Armco Inc.) 1929, Controller 1951, Vice-Pres. 1957, Exec. Vice-Pres. 1963, Dir. 1964-74, Pres. and Chief Operating Officer Dec. 1971-74; Dir. Barnitz Bank of Middletown, Central Bancorporation Inc., Central Trust Co. of Cincinnati, Monarch Machine Tool Company, Philips Industries Inc., Oglebay-Norton Co. *Adress:* Armco Steel Corporation, 703 Curtis Street, Middletown, Ohio 45042; 3101 Flemming Road, Middletown, Ohio, 45042, U.S.A. (Home).

REICHELDERFER, Francis W., A.B.; American meteorologist; b. 6 Aug. 1895, Harlan, Ind.; s. of F. A. and Mae (Carrington) Reichelderfer; m. Beatrice Hoyle; one s.; ed. Northwestern Univ., Evanston, Ill., Harvard Univ., Geophysical Inst., Bergen, Norway and Graduate School, U.S. Govt. Bureau of Standards; Apptd. Naval meteorological officer 1918; Dir. Naval Meteorological Organization 1922-28; qualified Airplane Pilot 1919 and Airship Pilot 1931; Meteorologist, First Transatlantic Flight; Int. Aviation Races, and other special assignments, and organization new services; promoted Commdr. U.S.N. 1938; Chief, United States Weather Bureau 1938-63; Hon. D.Sc. Northwestern Univ.; mem. American Assen. Advancement of Science, American Geophysical Union (Vice-Pres. 1949-53), Nat. Advisory Cttee. for Aeronautics (Vice-Chair. 1945-55), Int. Union Geodesy and Geophysics, Nat. Acad. of Sciences, American Meteorological Society (Pres. 1940-41), Inst. of Aeronautical Sciences (mem. and Hon. Fellow, Robert M. Losey award 1942, Pres. Washington Section 1945-56); Cleveland Abbe award 1963; mem. Exec. Cttee. Int. Meteorological Org. 1939-51 (Vice-Pres. 1946-51); Pres. World Meteorological Org. 1951-55; mem. U.S. Exec. Cttee. Int. Geophysical Year 1953-59, Exec. Cttee. 1954-59; Consultant, World Meteorological Org. 1964-67, Nat. Oceanic and Atmospheric Admin. 1963-75; Awards for role in meteorological cooperation among nations, Chile 1943, Cuba 1945, Japan 1960, WMO Prize 1966, American Meteorological Soc. special award 1973; Hon. Fellow, American Assen. for Advancement of Science, American Meteorological Soc., Royal Meteorological Soc., London; Hon. mem. American Soc. of Airways Pioneers. *Leisure interests:* gardening, hiking. *Address:* 3031 Sedgwick Street, N.W., (E-201), Washington, D.C. 20008, U.S.A.

REICHSTEIN, Tadeus, DR. ING. CHEM.; Swiss chemist; b. 20 July 1897, Wloclaweck, Poland; s. of Isidor Reichstein and Gustava Brockman; m. Louise Henriette Quarls v. Ufford 1927; one d.; ed. Eidgenössische Technische Hochschule, Zürich; Asst. Eidgenössische Technische Hochschule Zürich 1922-30, Prof. of Organic Chemistry 1930-38; Prof. of Pharmacy Univ. of Basel 1938-46, Prof. of Organic Chemistry 1946-67, Prof. Emer. 1967-; awarded Nobel Prize for Medicine and Physiology 1950, Copley Medal, Royal Soc. (U.K.) 1968; Dr. h.c. (Sorbonne, Geneva, Zürich, Abidjan, Basel, London and Leeds). *Leisure interests:* horticulture, botany. *Address:* Institut für Organische Chemie, St. Johanns-Ring 19, CH-4056, Basel; and Weissensteinstrasse 22, CH-4059, Basel, Switzerland. *Telephone:* 061-449090.

REID, Escott Meredith, C.C.; Canadian diplomatist (retd.); b. 21 Jan. 1905, Campbellford, Ontario; s. of Rev. A. J. Reid and Morna Meredith Reid; m. Ruth Herriot; two s. one d.; ed. Toronto and Oxford Univs.; Rockefeller Foundation Fellow 1930-32; Nat. Sec. of Canadian Inst. of Int. Affairs 1932-38; Acting Prof. of Govt. and Political Science, Dalhousie Univ., Halifax 1937-38; apptd. to Dept. of External Affairs 1939; served Ottawa, Washington, London; Asst. Under-Sec. of State for External Affairs 1947-48; Deputy Under-Sec. 1948-52; Acting Under-Sec. 1948-49; High Commr. in India 1952-57; Ambassador to German Fed. Repub. 1958-62; Dir. S. Asia and Middle East Dept. of Int. Bank for Reconstruction and Development 1962-65; Principal, Glendon Coll. and Prof. of Political Science, York Univ., Toronto 1965-69; Consultant, Canadian Int. Devt. Agency, Ottawa 1970-72; Skelton-Clark Fellow, Queen's Univ., Kingston 1972-73; Rhodes Scholar 1927-30; mem. Canadian Del. Int. Civil Aviation Conf. Chicago 1944, San Francisco 1945; Exec. Cttee. and Prep. Comm. of UN, London 1945; First, Second and Twelfth Sessions UN Gen. Assembly; Chair. Assembly Cttee. on Procedure and Organization 1947. *Publications:* The Future of the World Bank 1965, Strengthening the World Bank 1973, Time of Fear and Hope: The Making of the North Atlantic Treaty 1947-1949 1977. *Address:* R.R.2, Ste. Cécile de Masham, Quebec JOX 2WO, Canada *Telephone:* 819-456-2805.

REID, Sir Norman Robert, Kt., D.LITT., D.A., F.M.A., F.I.I.C.; British art gallery director; b. 27 Dec. 1915, London; s. of Edward Reid and Blanche Drouet; m. Jean Lindsay Bertram 1941; one s. one d.; ed. Wilson's Grammar School, London, Edinburgh Coll. of Art, and Edinburgh Univ.; Army Service 1939-46; Tate Gallery 1946-79, Deputy Keeper 1948-54, Deputy Dir. 1954-59, Keeper 1959-64, Dir. 1964-79; Fellow, Int. Inst. for Conservation of Historic and Artistic Works, Sec.-Gen. 1963-65, Vice-Chair. 1966-; Chair. British Council Fine Art Cttee. 1968-; Officer, Order of Aztec Eagle (Mexico); mem. many cttees. *Leisure interests:* painting, gardening. *Address:* The Tate Gallery, Millbank, London, S.W.1; 50 Brabourne Rise, Park Langley, Beckenham, Kent, England. (Home) *Telephone:* 01-828-1212 (Office); 01-6507088 (Home).

REID, Ogden Rogers, A.B.; American journalist and diplomatist; b. 24 June 1925, New York, N.Y.; s. of Ogden Reid and Helen Miles Rogers; m. 1949; six c.; ed. Yale Univ.; Reporter New York Herald Tribune 1950-51, various depts. 1952-53; Pres. and Editor New York Herald Tribune S.A., Paris 1953-59, Dir. 1953-; Vice-Pres. New York Herald Tribune Inc. 1954-55; Pres. and Editor New York Herald Tribune Inc. 1955-58, Dir. 1950; Amb. to Israel 1959-61; Chair. New York State Comm. Against Discrimination 1961-62; Dir. Panama Canal Co. 1956-59, Mass. Mutual Life Insurance Co. 1957-60; Congressman for Westchester County, N.Y. 1962-74; Nacional do Cruzeiro do Sul, Brazil 1956; Chevalier of the Legion of Honour 1957; Hon. LL.D., Adelphi Coll. (N.Y.); Hon. Fellow, Bar-Ilan Univ., Israel 1959; Democrat. *Publication:* How Strong is America? The Score on National Defense (with Robert S. Bird) 1950. *Leisure interests:* sailing, skiing, hunting, fishing. *Address:* Ophir Hill, Purchase, N.Y. 10577, U.S.A. *Telephone:* 914-949-1291.

REID CABRAL, Dr. Donald J.; Dominican politician, lawyer and businessman; b. 9 June 1923, Santiago de los Caballeros; s. of William C. Reid and Auristela Cabral de Reid; m. Clara A. Tejera

1949; two d.; ed. Univ. de Santo Domingo; Pres. Reid & Pellerano C.A. 1949-; Pres. Automobile Dealers' Assn. 1949-62; Vice-Pres. Council of State 1962-63; Minister of Foreign Affairs Sept.-Dec. 1963; Amb. to UN 1963; Amb. to Israel 1963; Pres. Triumvirate which ruled Dominican Repub. 1963-65; Minister of Foreign Affairs 1964; Minister of Armed Forces 1964-65. *Leisure interests:* gardening, sailing, scuba-diving. *Address:* Cervantes 8, Santo Domingo, D.N., Dominican Republic. *Telephone:* 565-4481/4; 5-5677/8; 689-3389.

REILLY, Sir (D'Arcy) Patrick, G.C.M.G., O.B.E., M.A.; British diplomatist; b. 17 March 1909, Ootacamund, India; s. of Sir D'Arcy Reilly and Florence (née Wilkinson); m. Rachel Mary Sykes 1938; two d.; ed. Winchester Coll., and New Coll., Oxford; Fellow All Souls Coll., Oxford 1932-39, 1969-, Hon. Fellow, New Coll., Oxford 1972-; entered Diplomatic Service 1933; served Teheran 1935-38, Foreign Office 1938, Algiers 1943, Paris 1944, Athens 1945; Counsellor, Athens 1947; Imperial Defence Coll. 1949; Asst. Under-Sec. of State, Foreign Office 1950-53; Minister in Paris 1953-56; Deputy Under-Sec., Foreign Office 1956; Amb. to U.S.S.R. 1957-60; Deputy Under-Sec. Foreign Office 1960-64; Official Head U.K. Del. to UN Conf. on Trade and Devt.; Amb. to France 1965-68; Pres. London Chamber of Commerce 1972-75; Chair. Banque Nat. de Paris Ltd. 1969-, United Bank for Africa 1969-74, Univ. of London Management Cttee. British Inst. in Paris 1970-, London Chamber of Commerce and Industry; Council, Bedford Coll., Univ. of London 1970-75. *Leisure interests:* travel, architecture, gardening. *Address:* Hampden Cottage, Ramsden, Oxford, OX7 3AU, England. *Telephone:* Ramsden 348.

REINERT, Heinrich, DR.RER.OEC.; German business executive; b. 29 May 1920, Leipzig; m. 1952; one d.; fmrly. with Bayer AG and subsequently mem. Man. Board FINA Raffinerie AG and FINA Bitumenwerk; mem. Man. Board VEBA-Chemie AG 67-; mem. Man. Board VEBA AG 1974-, Chair. 1973; Chair. Supervisory Board Aral AG 1973-75, 1977. *Leisure interest:* hunting. *Address:* 437 Marl, Langehegge 307, Federal Republic of Germany. *Telephone:* (0209) 3663902.

REINES, Frederick, M.E., M.S., PH.D.; American physicist; b. 16 March 1918, Paterson, N.J.; s. of Israel Reines and Gussie Cohen; m. Sylvia Samuels 1940; one s. one d.; ed. Stevens Inst. of Technology and New York Univ.; Staff mem. and Group Leader, Theoretical Div., Los Alamos Scientific Laboratory 1944-59; Prof. and Head, Dept. of Physics, Case Inst. of Technology 1959-66; Dean of Physical Sciences Univ. of Calif., Irvine 1966-74, Prof. of Physics Univ. of Calif., Irvine 1966-; Fellow, American Assn. for Advancement of Science, American Physical Soc., American Acad. of Arts and Sciences; Guggenheim Fellow 1958-59; Sloan Fellow 1959-63; Stevens Honor Award 1971; Hon. D.Sc. (Witwatersrand). *Publications:* Papers on detection of free neutrino 1953-57, observation of high energy neutrinos in the cosmic radiation 1965, effects of nuclear explosions 1950, whole body counting of natural radioactivity in humans 1953, liquid scintillation counters 1952-66, stability of baryons 1954-74. *Address:* University of California at Irvine, Irvine, Calif. 92717 (Office); 2655 Basswood Street, newport Beach, Calif. 926600, U.S.A. (Home).

REINHARDT, John Edward, M.S., PH.D.; American teacher and diplomatist; b. 8 March 1920, Glade Spring, Va.; s. of Edward Vinton Reinhardt and Alice Miller; m. Carolyn L. Daves 1947; three d.; ed. Knoxville Coll., Univs. of Chicago and Wisconsin; Instructor in English, Knoxville Coll. 1940-41, Fayetteville State Coll. 1941-42; U.S. Army 1942-46; graduate student 1946-50; Prof. of English, Virginia State Coll. 1950-56; Visiting Prof. of English, Atlanta Univ. 1953; Asst. Cultural Officer, American Embassy, Philippines 1956-58; Dir. American Cultural Center, Kyoto, Japan 1958-62; Dir. of Field Programs, American Embassy, Tokyo 1962-63; Cultural Attaché, Teheran 1963-66; Deputy Asst. Dir. of U.S. Information Agency for Far East 1966-68, for Africa 1968-70, for Far East 1970-71; Amb. to Nigeria 1971-75; Dir. U.S. Information Agency 1977-78, Int. Communication Agency April 1978-. *Leisure interests:* gardening, photography. *Address:* International Communication Agency, 1750 Pennsylvania Avenue N.W., Washington, D.C. 20547, U.S.A.

REINHARDT, Max; British publisher; b. 30 Nov. 1915, Istanbul; s. of Ernest Reinhardt and Frieda Reinhardt (née Darr); m. Joan MacDonald 1957; two d.; ed. Ecole des Hautes Etudes Commerciales, Paris, London School of Economics; Chair. Max. Reinhardt Ltd. and HFL (Publishers) Ltd. 1958-; Man. Dir. Bodley Head Group of Publishers 1957-; Joint Chair. Chatto, Bodley Head and Jonathan Cape Ltd. 1973-; mem. Council, Publishers' Assn. 1963-69, Royal Acad. of Dramatic Art 1965-. *Leisure interests:* tennis, swimming, bridge. *Address:* 16 Pelham Crescent, London, SW7 2NR, England. *Telephone:* 01-5895527.

REIS, Mauricio Rangel; Brazilian agronomist and statistician; b. 2 March 1922, Rio de Janeiro; s. of Alfredo de Souza Reis and Maria Coeli Rangel Reis; m. Themis Lima Reis 1953; one s.; fmr. Sec.-Gen. Ministry of Agriculture; Deputy Head Inst. for Applied Econ. Research, Ministry of Planning and Gen. Co-ordination; well-known for his work in developing the Amazon region; Minister of the Interior 1974-78. *Address:* c/o Ministério de Interior, SAS, Quadra 1, Bloco A, Lotes 9/10, D.F., Brazil.

REISCHAUER, Edwin Oldfather, A.M., PH.D.; American historian and diplomatist; b. 15 Oct. 1910, Tokyo, Japan; s. of August Karl and Helen Oldfather Reischauer; m. 1st Adrienne Danton 1935 (died 1955), 2nd Haru Matsukata 1956; one s. two d.; ed. Oberlin Coll., Harvard Univ., and Univ. of Paris.; studied in France, Japan, China 1933-38; Instructor Harvard 1938-42; Military Intelligence, Second World War; Special Asst. to Dir. Office of Far Eastern Affairs, Dept. of State 1945-46; Assoc. Prof. Far Eastern Languages 1946-50, Prof. 1950-61; Dir. Harvard-Yenching Inst. 1956-61; Amb. to Japan 1961-66; Prof. Harvard Univ. 1966-; Chair. Board Trustees, Harvard-Yenching Inst. 1969-; Japan Foundation Prize 1975. *Publications:* Selected Japanese Texts for University Students (3 vols; compiler, with S. Elisseeff) 1942-47, Japan Past and Present 1946, 1963, 1964 (new edn.), Translations from Early Japanese Literature (with Joseph Yamagiwa) 1951, Wanted: An Asian Policy 1955, Ennin's Dairy: The Record of a Pilgrimage to China in Search of the Law 1955, Ennin's Travels in T'ang China 1955, The United States and Japan 1950, 1965, East Asia: The Great Tradition (with John K. Fairbank) 1960, East Asia: The Modern Transformation (with Fairbank and Craig) 1965, Beyond Vietnam: The United States and Asia 1967, Japan: The Story of a Nation 1970, East Asia: Tradition and Transformation (with Fairbank and Craig) 1973, Toward the 21st Century: Education for a Changing World 1973, The Japanese 1977. *Address:* 1737 Cambridge Street, Cambridge, Mass. 02138, U.S.A. *Telephone:* 495-3220.

REISZ, Karel; British film director; b. 21 July 1926, Ostrava, Czechoslovakia; s. of Dr. Josef and Frederika Reisz; m. 1st Julia Coppard (dissolved), 2nd Betsy Blair 1963; three s.; ed. Leighton Park School, Reading, and Cambridge Univ.; came to England 1939; served with Czechoslovak section of R.A.F. 1944-46; freelanced as journalist, lecturer and teacher; published The Technique of Film Editing 1953; Films Officer, Ford Motor Co.; now film director and producer. *Leisure interest:* gardening. *Films:* Momma Don't Allow (Co-director with Tony Richardson) 1954, Every Day Except Christmas (producer) 1958, We Are the Lambeth Boys 1958 (Both for Fords), Saturday Night and Sunday Morning 1959, This Sporting Life (producer) 1962, Night Must Fall 1963, Morgan—A Suitable Case for Treatment 1965, Isadora 1969, The Gambler 1974, Dog Soldiers 1977. *Address:* Film Contracts, 2 Lower James Street, London, W.1, England.

REKOLA, Esko Johannes; Finnish lawyer and civil servant; b. 10 June 1919, Tampere; s. of Prof. Aarne Rekola and Laina Kouvo; m. 1st Raili Kilpeläinen 1945 (died 1973), three s.; m. 2nd Anna Liisa Sundquist 1974; ed. Helsinki Univ.; Chief of Taxation Dept., Ministry of Finance 1957-59, Chief of Budget Dept. 1959-63, 1964-65; Alt. Gov. Int. Bank for Reconstruction and Devt. 1962-66, Gov. 1976; Minister of Finance 1963-64; Chief of the Prime Minister's Office 1965-66; Gen. Man. Finnish State Railways 1966-73; Sec.-Gen. Ministry of Communications 1973-76; Minister of Finance 1976-77, of Economy 1977-. *Address:* H Matinlahdenkatu 3A3, SF-02230 Espoo 23, Finland. *Telephone:* 8032192.

RELLY, Gavin Walter Hamilton, M.A.; South African business executive; b. 6 Feb. 1926, Stellenbosch; m. Jane Margaret Glenton 1951; one s. two d.; ed. Diocesan Coll., Rondebosch and Trinity Coll., Oxford; joined Anglo American Corpn., Johannesburg 1949, Chair. Anglo American Corpn. (Cen. Africa) 1965-69; mem. Board Anglo American Corpn. of S.A. Ltd. 1965, Exec. Dir. 1966, Joint Deputy Chair. 1977-; Chair. Anglo American Corpn. of Canada 1970-73; mem. Board Hudson Bay Mining & Smelting Co. Ltd. 1970, Chair. 1970-73; mem. Board Rand Selection 1971, Chair. 1973-; Chair. Anglo American Industrial Corpn. 1973; mem. Board, Exec. Cttee. Engelhard Minerals & Chemicals Corpn. 1970, mem. Board Charter Consolidated Ltd. 1971. *Address:* Anglo American Corpn. of South Africa Ltd., 44 Main Street, Johannesburg, South Africa.

REMEZ, Brig.-Gen. Aharon; Israeli air force officer and diplomatist; b. 8 May 1919, Tel-Aviv; s. of David Remez; m. Rita Levy; one s. three d.; ed. Harvard Business School, Woodrow Wilson School, Princeton; agricultural training in kibbutz, Givat Haim 1937-39; Emissary to Zionist Youth Movement, U.S.A. 1939-41; Royal Air Force 1942-47; mem. kibbutz Kfar Blum 1947-; Dir. of Planning and Operations, later Chief of Staff, Israel Air Force 1948;

Commdr.-in Chief Israel Air Force 1948-51; Head, Ministry of Defence Purchasing Mission, U.S.A. 1952-53; Aviation Adviser to Minister of Defence 1953-54; Man. Dir. Solel-Boneh Koor Industries and Crafts Co. Ltd. 1954-59; mem. Knesset 1955-57; Admin. Dir. Weizmann Inst. of Science, Rehovot 1959-60; Dir. Int. Co-operation Div., Ministry for Foreign Affairs 1960-64, Adviser on Int. Co-operation to Minister for Foreign Affairs 1964-65; Amb. to U.K. 1965-70; Dir.-Gen. Israel Ports Authority 1970-; Chair. Israel Airports Authority 1977-. *Publications:* articles on aviation, management and political topics. *Leisure interests:* sculpture, Do-It-Yourself hobbies. *Address:* Israel Ports Authority, Maya Building, 74 Petah-Tiqva Road, Tel-Aviv (Office); 8 San Martin Street, Jerusalem, Israel (Home). *Telephone:* (02) 416017.

RÉMI, Richard Christian; Malagasy politician. Minister of Educ. Feb.-June 1975, of Youth 1976-77, also of Revolutionary Art and Culture June-July 1977, of Foreign Affairs Aug. 1977-; mem. Front National pour la Défense de la Révolution Socialiste Malgache. *Address:* Ministère des Affaires Etrangères, Antananarivo, Madagascar.

REMICK, Lee; American actress; b. 14 Dec. 1935, Boston, Mass.; d. of Frank Remick and F. W. Packard; m. 1st William Colleran 1957 (divorced 1969), one s. one d.; m. 2nd William R. Gowans 1970; ed. Hewitt School, New York; stage appearances in Anyone Can Whistle (musical), New York 1964, Wait Until Dark, New York 1966, Bus Stop, London 1976. *Films include:* Face in the Crowd 1956, The Long Hot Summer 1957, These Thousand Hills 1958, Anatomy of ■ Murder 1959, Wild River 1959, Sanctuary 1960, Experiment in Terror (British title Grip of Fear) 1960, Days of Wine and Roses 1961, The Running Man 1962, The Wheeler Dealers 1963, The Travelling Lady 1963, The Hallelujah Trail 1964, No Way to Treat ■ Lady 1967, The Detective 1967, Hard Contract 1968, A Severed Head 1969, Loot 1969, Sometimes ■ Great Notion 1970, A Delicate Balance 1972, Hennessy 1975, The Omen 1976, Telefon 1977, The Medusa Touch 1977; TV appearances in QB-VII, The Blue Knight, Jennie 1974, The Ambassadors 1977, Wheels (U.S.A. series) 1977-78; Golden Globe Award for The Blue Knight, Best TV Actress Award for Jennie, Soc. of Film and TV Arts 1974. *Address:* c/o International Creative Management Ltd., 22 Grafton Street, London, W.1, England. *Telephone:* 01-629 8080.

REMY, Pierre-Jean (pseudonym of Jean-Pierre Angremy); French diplomatist and author; b. 21 March 1937, Angoulême; s. of Pierre Angremy and Alice Collebrans; m. Odile Cail 1963; one s. one d.; ed. Lycée Condorcet, Inst. d'Etudes Politiques, Paris, Brandeis Univ. (U.S.A.) and Ecole Nationale d'Administration, Paris; served in Hong Kong 1963; Second Sec., Peking 1964, London 1966; First Sec. London 1968; Counsellor, Ministry of Foreign Affairs 1971; Dir. Programme Co-Ordination, O.R.T.F. 1972, Cultural Counsellor, French Embassy, London 1975-; Prix Renaudot for novel Le sac du palais d'eté 1971. *Publications:* novels: Et Gulliver mourut de sommeil 1961, Midi ou l'attentat 1962, Gauguins à gogo 1971, Le sac du palais d'ete 1971, Urbanisme (poems) 1972, Une mort sale 1973, La vie d'Adrian Putney, poète 1973, Ava, La mort de Floria Tosca, Mémoires secrets pour servir à l'histoire de ce siècle 1974, Rêver la vie 1975, La figure dans la pierre 1976, Chine: Un itinéraire 1977, Les enfants du parc 1977, Si j'étais romancier 1977. *Address:* 30 rue Pierre Nicole, 75005 Paris, France; French Embassy, 58 Knightsbridge, London, SW1X 7JT, England. *Telephone:* 033-65-41 (Paris); 01-235 8080 (London).

RENARD, H. E. Cardinal Alexandre, D. ÈS L.; French ecclesiastic; b. 7 1906: ed. Coll. Jeanne d'Arc, Grand Séminaire and Univ. Catholique de Lille; ordained priest 1931; Prof., college at Marcq 1933-36, seminary at Haubourdin 1936-38, Univ. Catholique de Lille 1938-43; Chaplain to Women Students, Lille diocese 1938; Diocesan Dir. of Works 1947; Bishop of Versailles 1953-67; Archbishop of Lyons and Primate des Gaules 1967-; created Cardinal 1967; Officier Légion d'honneur. *Publications:* include: Philosophie et pédagogie de l'école nouvelle, Possibilité de la philosophie chrétienne, Exigences spirituelles du christianisme, En équipe dans le Christ, Fidélité ■ Christ et présence ■ monde, Vie spirituelle de la religieuse aujourd'hui, Prêtres diocésains aujourd'hui, Vivre la foi en l'église, La crise et l'espérance, Seule compte la foi, Qu'est-ce qu'un chrétien?, La vie et la foi, Liberte et espérance, Que veut l'église?, Où va l'église?, L'Appel de l'ésprit. *Address:* Archevêché, 1 place de Fourvière, 69321 Lyon, Rhône, France. *Telephone:* 25-12-27.

RENAUD, Madeleine; French actress and author; b. 21 Feb. 1903; m. Jean-Louis Barrault (*q.v.*); ed. Lycée Racine and Paris Conservatoire; Pensionnaire, Comédie Française 1921-47; co-Dir. Compagnie Madeleine Renaud—Jean-Louis Barrault 1947-; plays in which she has acted important roles include Le soulier de satin, Occupe-toi d'Amélie, Les nuits de colère, Christophe Colombe, La dame aux camélias, Harold et Maude 1973, Oh les beaux jours 1974, Pas moi 1975; *films include:* Jean de la lune, La maternelle, Remorques, Le ciel est à nous, Le plaisir, Dialogue des Carmélites, Le jour le plus long, Le diable par la queue 1968, L'Humeur vagabonde 1971, La Mandarine 1972; Commdr. Légion d'honneur, Commdr. des Arts et des Lettres. *Address:* 18 avenue du Président-Wilson, 75116 Paris, France.

RENAULT, Mary (pseudonym of Mary Challans); British writer; b. 4 Sept. 1905, London; d. of Frank Challans, M.D., and Mary Challans (née Baxter); unmarried; ed. Clifton High School, Bristol, St. Hugh's Coll., Oxford, and Radcliffe Infirmary, Oxford; nurse during Second World War; resident in South Africa 1948-; Contributor to Times Literary Supplement; Fellow of Royal Soc. of Literature 1959, Pres. Cape PEN Club of South Africa 1961, Silver Pen Award 1971. *Publications:* Purposes of Love 1939, Kind ■■ Her Answers 1940, The Friendly Young Ladies 1944, Return to Night 1946, North Face 1948, The Charioteer 1953, The Last of the Wine 1956, The King Must Die 1958, The Bull from the Sea 1962, The Lion in the Gateway 1964, The Mask of Apollo 1966, Fire From Heaven 1969, The Persian Boy 1972, The Nature of Alexander 1975, The Praise Singer 1979. *Leisure interests:* conversation and dogs. *Address:* 3 Atholl Road, Camps Bay, Cape Town 8001, South Africa.

RENCHARD, William S(hyrock), A.B.; American banker; b. 1 Jan. 1908, Trenton, N.J.; s. of John A. and Lillian C. (Smith) Renchard; m. Alice Marie Fleming 1935; three d.; ed. Princeton Univ.; with the Nat. Bank of Commerce, New York 1928-29, the Guaranty Trust Co., New York 1929-30; joined the Chemical Bank 1930, Pres. and Dir. 1960-66, Chair. and Chief Exec. Officer, 1966-73, Chair. Exec. Cttee. and Dir. 1973-78, Chair. Directors' Advisory Cttee. 1978-; official of many business and public bodies. *Leisure interest:* golf. *Address:* Chemical Bank, 277 Park Avenue, New York, N.Y. 10017, U.S.A.

RENÉ, (France) Albert; Seychelles barrister and politician; b. 16 Nov. 1935, Seychelles; s. of Price René and Louisa Morgan; m. 1st Karen Handley 1956, one d.; m. 2nd Geva Adam 1975, one s.; ed. St. Maurice, Switzerland, St. Mary's Coll., Southampton, U.K., King's Coll., London; called to Bar 1957; founder and Leader, Seychelles People's United Party 1964-; mem. Parl. 1965-; Minister of Works and Land Devt. 1975-77; Prime Minister 1976-77; Pres. of Seychelles June 1977-, also C.-in-C., Minister of the Economy, Finance and Transport 1977-78, of Internal Affairs, the Public Service, Youth and Community Devt. and Agric. 1978-. *Leisure interests:* gardening, fishing. *Address:* The State House, Victoria, Mahé, Seychelles. *Telephone:* 23911.

RENEKER, Robert William, PH.B.; American business executive; b. 4 Aug. 1912, Chicago; ed. Calumet High School, and Univ. of Chicago School of Business; Purchasing Dept., Swift and Co. 1933-34, Office of Vice-Pres. 1944, later in office of Pres.; Vice-Pres. Swift and Co. 1955-64, Dir. 1959-, Pres. 1964-73; Pres. and Chief Exec. Officer Esmark Inc. 1973, Chair. of Board and Chief Exec. Officer 1973-77; Dir. and Pres. Community Fund of Chicago, The Econ. Club of Chicago; Dir. Continental Illinois Corpn., Continental Illinois Nat. Bank and Trust Co. of Chicago, Gen. Dynamics Corpn., Trans Union Corpn., The Tribune Co., Nat. Merit Scholarship Corpn., Chicago Community Trust, Chicago Metro Area Nat. Alliance of Businessmen, Chair. Board of Trustees, Univ. of Chicago; Trustee, Museum of Science and Industry, Chicago, Chicago Sunday Evening Club. *Address:* 1300 Lake Shore Drive, Chicago, Ill. 60610, U.S.A. (Home).

RENGER, Annemarie; German politician; b. 7 Oct. 1919, Leipzig; d. of Fritz Wildung and Martha (née Scholz) Wildung; m. 1st Emil Renger 1938 (killed in 2nd World War), one s.; 2nd Aleksandar Loncarevic 1965 (died 1973); private sec. to Dr. Kurt Schumacher 1945-52; managed SPD offices Berlin May-Dec. 1946; mem. Bundestag 1953-; SPD Parliamentary Group Man. 1969-72; Pres. Bundestag 1972-76, Joint Vice-Pres. 1976-; mem. SPD 1945–;mem. Presidium 1961-73; mem. for ten years of advisory assembly of European Council and Assembly of West European Union; Vice-Pres. Int. Council of Social Democratic Women of the Socialist International 1972-76; Grosses Bundesverdienstkreuz. *Address:* 5300 Bonn-Bundeshaus, Federal Republic of Germany.

RENNER, William Beach; American company executive; b. 29 Sept. 1920, Middletown, Ohio; s. of L. C. Renner and Pearl Beach Renner; m. Elizabeth Anne Kemp 1944; three s.; ed. Wittenberg Univ.; Vice-Pres. Sales, Mill Products, Aluminum Co. of American 1973-75, Pres. June 1975-, mem. Board of Dirs. 1975-; mem. Board of Dirs. Pittsburgh Nat. Bank, Pittsburgh Nat. Corpn., Pittsburgh Int. Finance Corpn, Shell Oil Co.; mem. Board Regional Industrial Devt. Corpn. of S.W. Pennsylvania, Duquesne Univ.; mem. Greater Pittsburgh Chamber of Commerce, American Soc. of Corporate

Executives, The Aluminium Assen.; mem. Citizens Sponsoring Cttee. Allegheny Conf. on Community Devt.; Trustee Shadyside Hospital. *Leisure interests:* golf, tennis, paddle tennis, music, reading. *Address:* Aluminum Company of America, 1501 Alcoa Building, Pittsburgh, Pa. 15219, U.S.A.

RENNIE, Sir John Shaw, G.C.M.G., O.B.E.; former British United Nations official; b. 12 Jan. 1917, Glasgow; s. of late John Shaw and S. W. Rennie; m. Mary Winifred Macalpine Robertson 1946; one s.; ed. Hillhead High School, Glasgow Univ., and Balliol Coll., Oxford; District Officer, Tanganyika 1940-51; Deputy Colonial Sec., Mauritius 1951-55; British Resident Commr., New Hebrides, West-[illegible] Pacific 1955-62; Gov. and C.-in-C., Mauritius 1962-68; Gov.-Gen. and C.-in-C., Mauritius March-Aug. 1968; Deputy Commr.-Gen. UN Relief and Works Agency for Palestine Refugees 1968-71, Commr.-Gen. 1971-77; LL.D. (Glasgow) 1972. *Leisure interests:* reading, music, walking. *Address:* 26 College Cross, London, N.1, England; Via Roma 33, 06050 Collazone, Italy.

RENSHAW, John Brophy; Australian politician; b. 8 Aug. 1909, Wellington, N.S.W.; ed. Binnaway School and Holy Cross Coll., Ryde, Sydney; farmer; mem. Binnaway-Coonabarabran Shire Council 1937-41; Shire Pres. 1939-40; mem. New South Wales legislature 1941-, Sec. for Lands, N.S.W. Govt. 1950-52, Sec. for Public Works 1952-56, Asst. Minister for Local Govt. 1952-53, Minister 1953-59, Minister for Highways 1956-59, Deputy Premier and Treas. 1959-62, Minister for Lands 1960-61, for Agric. 1961-62, for Industrial Devt. and Decentralization 1962-64, Premier, Treas., Minister for Industrial Devt. and Decentralization 1964-65, Treas. May 1976-; Leader of Opposition in Legislative Assembly 1965-68; Labour Party; Companion of Order of Australia. *Address:* Parliament House, Sydney, N.S.W., Australia. *Telephone:* 230-2111.

RESHETNIKOV, Fyodor Pavlovich; Soviet painter; b. 28 July 1906, Sursko-Litovskoe, Ukraine; m. Lidiya Brodskaya; one d.; ed. Moscow Arts Inst.; took part in the Sibiryakov, Chelyuskin Arctic Expeditions 1932-34; war artist in Sebastopol and Kerch 1941-42; mem. CPSU 1945-; Acad. of Arts of the U.S.S.R. 1953, Vice-Pres. Acad. of Sciences U.S.S.R. 1974; People's Artist of the U.S.S.R.; State prizewinner 1949, 1951; Order of the Red Banner of Labour, Order of the Red Star and other decorations. *Principal works:* Germans in Kerch (Bagerovo) 1942, Armoured Train Zheleznyak 1943, Home for the Holidays 1948, First Match 1952, Another Bad Mark 1952, For Peace; series of caricatures 1961-62; Vietnamese Mother 1968. *Address:* Academy of Arts of the U.S.S.R., 21 Kropotkinskaya ulitsa, Moscow, U.S.S.R.

RESNAIS, Alain; French film director; b. 3 June 1922; ed. Institut des Hautes Etudes Cinématographiques, Paris; short films directed (1948-59) include Van Gogh 1948, Guernica (with Robert Hessens) 1950, Les statues meurent aussi (with C. Marker) 1952, Nuit et brouillard 1955; Long films include: Hiroshima mon amour 1959, L'année dernière à Marienbad 1961, Muriel 1963, La guerre est finie 1966, Je t'aime 1968, Stavisky 1974, Providence 1977. *Address:* 70 rue des Plantes, 75014 Paris, France.

RESNIK, Regina; American mezzo-soprano singer; b. 30 Aug. 1924; d. of Samuel Resnik and Ruth Resnik; m. 1st Harry W. Davis 1947; one s.; m. 2nd Arbit Blatas 1975; ed. Hunter Coll., New York; concert debut, Brooklyn Acad. of Music 1942; appeared [illegible] Leonore (Fidelio), Mexico City 1943; with New York City Opera 1944-45; debut at Metropolitan Opera, New York [illegible] Leonora (Il Trovatore) 1944, with Metropolitan Opera Co. 1946-; in subsequent years sang at Chicago Opera Theatre, San Francisco Opera, etc.; Bayreuth debut (as Sieglinde) 1953, London debut 1957; has sung at Vienna, Berlin, Stuttgart, Buenos Aires, Paris, Marseilles, Salzburg; directed Carmen, Hamburg State Opera 1971, produced and acted in Falstaff, Teatr Wielki, Warsaw 1975, etc.; President's Medal, Commandeur, Arts et Lettres (France). *Address:* c/o Metropolitan Opera Co., New York, N.Y. 10018, U.S.A. *Address:* 799-3100.

RESTON, James; Scottish-born American journalist; b. 3 Nov. 1909, Clydebank, Scotland; m. Sarah Jane Fulton 1935; three s.; ed. Dayton, Ohio public schools and Illinois Univ.; first brought to U.S.A. 1910, permanently settled 1920-; began his career on Springfield (Ohio) Daily News and as sports publicity dir. for Ohio State Univ.; travelling Sec., Cincinnati Baseball Club; Sports Writer, Associated Press, New York 1934-37; Assoc. Press Corresp., London 1937-39; New York Times London Bureau 1939-41, Washington Bureau 1941; Dir. Office of War Intelligence Information Service, U.S. Embassy, London 1942; Asst. to Publisher, New York Times 1943, Acting Head, London Bureau 1943-45, Nat. Corresp. 1945, Diplomatic Corresp. 1946, Head of Washington Bureau 1953-64, Assoc. Editor 1964-68, Exec. Editor 1968-69, Vice-Pres. 1969-74, Dir. 1973-, Columnist 1973-; Co-publisher Vineyard Gazette 1968–;Hon. D.Litt. (Colgate and Rutgers Univs.), Hon. LL.D. (New York), Hon. Dr. of Journalism (Northeastern Univ.) 1976; Pulitzer Awards 1944 and 1957, George Polk Memorial Award 1954, Raymond Clapper Award 1955, etc; Lovejoy Fellow 1974; Chevalier, Légion d'honneur; Hon. Dr. of Humane Letters (Yale) 1977. *Publications:* The Artillery of the Press 1967, Sketches in the Sand 1967. *Adress:* The New York Times, 1000 Connecticut Avenue, N.W., Washington, D.C. 20036, U.S.A.

RÉTORÉ, Guy; French theatre director; b. 7 April 1924, ed. Univ. of Paris; Public Relations Dept., S.N.C.F. until 1955; Actor and Producer, Théâtre de Boulevard until 1955; formed "La Guilde" (theatrical company), Menilmontant, East Paris 1955; opened Théâtre de Menilmontant 1957; Dir. Maison de la Culture, Menilmontant 1962-; Dir. Théâtre de l'Est Parisien (also gives concerts, ballets, films and conferences). *Plays produced include:* La fille du roi (Cosmos) 1955, Life and Death of King John 1956, Grenadiers de la reine (Farquhar, adapted by Cosmos) 1957, L'Avare (Molière), Macbeth (Shakespeare), Les caprices de Marianne (Musset), La fleur à la bouche (Pirandello), Le Médecin malgré lui (Molière), Le manteau (Gogol, adapted by Cosmos) 1963, La Locandiera (Goldoni), Arden of Faversham 1964, Monsieur Alexandre (Cosmos) 1964, Macbeth (Shakespeare) 1964, Turcaret (Lesage) 1965, Measure for Measure (Shakespeare) 1965, Le voyage de Monsieur Perrichon (Labiche) 1965, Live Like Pigs (Arden), The Silver Tassie (O'Casey) 1966-67, Les 13 soleils de la rue St. Blaise (A. Gatti), La machine (Jean Cosmos) 1968-69, Lorenzaccio (Musset), L'Opéra de quat'sous (Brecht), Major Barbara (Shaw) 1969-70, Les ennemis (Gorki), L'Ane de l'hospice (Arden) 1970-71, Sainte Jeanne des abattoirs (Brecht) 1971-72, Macbeth (Shakespeare) 1972-73, Androclès et le lion 1974-75, Coquin de coq (O'Casey) 1975-76, L'Otage (Claudel) 1976-77. *Address:* Théâtre de l'Est Parisien, 17 rue Malte Brun, 75020 Paris, France. *Telephone:* 797-94-58; and 636-79-09.

RETTEL, Jean, LL.D.; Luxembourg diplomatist; b. 12 Dec. 1925, Luxembourg; ed. Univs. of Fribourg, Switzerland and Grenoble, France; practising lawyer, Luxembourg Bar 1950-54; joined Ministry of Foreign Affairs 1954; Sec. Bonn 1956-59; Counsellor and Deputy Chief, Div. of External Trade 1964-68; Chief Protocol and Legal Dept. 1968-69; Counsellor, Paris 1969-71, also Deputy Perm. Rep. to OECD; Perm. Rep. to UN 1972-76; Amb. to Switzerland, also accred. to Austria, 1976-; del. to meetings of ECOSOC and other int. confs. *Address:* Luxembourg Embassy, Kramgasse 45, Berne, Switzerland.

REUTER, Paul; French international lawyer; b. 12 Feb. 1911, Metz; s. of Fery Reuter; m. Christine Abram 1943; two s; Prof. law faculties of Nancy, Poitiers, Aix-en-Provence and Paris; teacher Institut d'Etudes Politiques, Paris 1953, Acad. of Int. Law 1952, 1961; mem. Perm. Cen. Opium Board 1948-68, Vice-Chair. 1953-68; mem. Int. Narcotics Control Board 1968-, Chair. 1974-79; Chair. Tribunal Suprême de Monaco; legal adviser, Ministry of Foreign Affairs 1948; [illegible] Perm. Court of Arbitration 1958, European Court for Nuclear Energy 1960, UN Int. Law Comm. 1964-; mem. Inst. of Int. Law, Acad. Royale de Belgique; mem. various conciliation comms., arbitration tribunals, etc.; Officier, Légion d'honneur, Cmmdr. Ordre national du Mérite. *Publications:* include: Droit international public, Institutions internationales, Organisations européennes, La communauté européenne du charbon et de l'acier, Organisations européennes and numerous other books and articles. *Leisure interests:* the sea, music, gardening. *Address:* Service Juridique du Ministère des Affaires Etrangères, 37 quai d'Orsay, 75007 Paris (Office); 72 rue de Cherche-Midi, 75006 Paris, France (Home).

REUTER, Richard Ward, B.A., L.H.D.; American international relief administrator; b. 17 Jan. 1918; ed. Amherst Coll.; admin. positions merchandising and insurance 1938-41; served (civilian) with American Friends Service Cttee. 1941-45; with CARE Inc. 1946-49, 1951-62, Exec. Dir. 1955-62; Special Asst. to Pres., Dir. U.S. "Food for Peace" Programme 1962-66; joined Int. Div. of Kraft Foods 1967, Vice-Pres. Purchasing 1969-; several orders and decorations. *Address:* International Division, Kraft Foods, 500 Peshtigo Court, Chicago, Ill. 60690, U.S.A.

REUTER, Wolfgang Christian; German business executive; b. 26 May 1924, Duisburg; s. of Dr. Hans Reuter and Helga Gran; m. Christa Féaux de Lacroix 1960; two s. one d.; fmr. dir. of various DEMAG affiliated cos. until 1956; Treas. and mem. Board of Dirs. DEMAG 1962, Pres. and Chair. of Board 1967-75, mem. Supervisory Board 1975-76. Hon. Chair. 1976-. *Leisure interests:* sailing, golf. *Address:* 4 Wittlaer/Düsseldorf, Bockumerstrasse 357, Federal Republic of Germany (Home). *Telephone:* 0211-40-16-27.

REUTHER, Victor G.; American labour union executive; b. 1 Jan. 1912; ed. Univ. of W. Virginia, Wayne Univ.; travelled abroad 1935; assembly-line worker Kelsey-Hayes Wheel Co., Detroit 1935;

Dir. United Automobile Workers (U.A.W.), Indiana 1937, Int. Rep. 1937, later Asst. Dir. War Policy Div., Dir. Educ. Programme in U.S. and Canada 1951, European Rep. 1951; fmr. Asst. to Pres. Congress of Industrial Orgs. (C.I.O.); Admin. Asst. to Pres. U.A.W., Dir. Int. Affairs Dept.; [illegible] State and Nat. Cttees. War Manpower Comm. and War Productivity Board, U.S. Govt., World War II; Co-Chair. Anglo American Council on Productivity 1949; lost an eye when shot in the face by gangsters 1949; mem. Commerce Technical Advisory Board; Democrat.

REUTOV, Olyeg Aleksandrovich; Soviet organic chemist; b. 5 Sept. 1920, Makeyevka, Donetsk Region; ed. Moscow Univ.; Soviet Army 1941-45; Instructor, Moscow Univ. 1945-54, Prof. 1954–;Head of own lab. at Moscow Univ.; research into theoretical problems of organic chemistry and application of isotopes in organic chemistry 1957-; Soviet expert on chemical and biological warfare, UN 1969-; Deputy Chair. Soviet Peace Cttee. 1974; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-64, mem. 1964-; mem. CPSU 1942–.*Publications:* Theoretical Problems of Organic Chemistry 1956, Theoretical Foundation of Organic Chemistry 1964, Mechanism and Reaction of Metallo-Organic Compounds (co-author) 1972. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

REUTTER, Hermann; German pianist and composer; b. 17 June 1900, Stuttgart; s. of Hermann and Clara Reutter; m. Lieselotte Lauk 1940; one s. two d.; studied music at Munich; Teacher of Composition, Staatliche Hochschule für Musik und Darstellende Kunst, Stuttgart 1932-36, Prof. 1950-; Dir. 1956-66; Dir. Musikhochschule, Frankfurt a.M. 1936-50. Published works include choral music, cantatas, song cycles, orchestral and solo works; operas: Odysseus, Dr. Johannes Faust, Don Juan and Faust; five one-act pieces: Saul, Ballade der Landstrasse, Lübecker Totentanz, Witwe von Ephesus, Die Brücke von San Luis Rey, Tod des Empedokles; ballet: Kirmes von Delft, Notturno Montmartre; choral: Der grosse Kalender, Pandora, Der glückliche Bauer; orchestral: Piano concertos, Concerto for Cello and Orchestra, String Symphony.*Leisure interests:* all arts. *Address:* 7 Stuttgart-Möhringen, Elfenstrasse 107, Federal Republic of Germany. *Telephone:* 711597.

REVEL, Jean-François; French writer; b. 19 Jan. 1924; m. Claude Sarraute 1966; two s. one d.; ed. Ecole Normale Supérieure and Sorbonne, Paris; teacher of French Literature, Institut Français, Mexico, later Florence 1952-56; Teacher of Philosophy, Lille and Paris 1956-61; Literary Adviser Editions Julliard and Pauvert 1961-66. Editions Laffont 1966-; Columnist of L'Express 1966-; Dir. of L'Express 1978-. *Publications:* novels: Histoire de Flore 1957; essays: Pourquoi des philosophes? 1957, Pour l'Italie 1958, Le style du général 1959, Sur Proust 1960, La cabale des dévots 1962, En France 1965, Contrecensures 1966, Histoire de la philosophie occidentale Vol. I 1968, Vol. II 1970, Ni Marx ni Jésus 1970, Les idées de notre temps 1972, La tentation totalitaire 1976, Descartes inutile et incertain 1976, La nouvelle censure 1977. *Address:* 55 quai de Bourbon, 75004 Paris, France. *Telephone:* 033-65-87.

REVELLE, Roger, PH.D.; American university professor; b. 7 March 1909, Seattle, Wash.; s. of William R. and Ella R. (Dougan) Revelle; m. Ellen Virginia Clark 1931; one s. three d.; ed. Pomona Coll. and Univ. of California; teaching Asst., Pomona Coll. 1929-30, Univ. of Calif. 1930-31; Research Asst., Univ. of Calif., Scripps Inst. of Oceanography 1931-36, Instructor 1936-41, Asst. Prof. 1941-46, Assoc. Prof. 1946-48, Assoc. Dir. 1948-50, Acting Dir. 1950-51, Dir. 1951-64, Dir. Emer. 1964-, Prof. of Oceanography 1948-64; Dir. La Jolla Campus and Dean of School of Science and Engineering Univ. of Calif. 1958-61; Science Adviser to Sec. of Interior 1961-63; Univ. of Calif. Dean of Research 1963-64; Richard Saltonstall Prof. of Population Policy, Faculty of Public Health, Harvard univ. 1964–;Dir. Harvard Center for Population Studies 1964-75; mem. Int. Assen. of Physical Oceanography (Pres 1963-67), American Assen. for Advancement of Science (Pres. 1974), American Geophysical Union, Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc.; mem. Naval Research Advisory Comm. 1959-, U.S. Nat. Comm. for UNESCO 1958-64 (Vice-Chair. 1961-64); Prof. of Science and Public Policy, Univ. of Calif., San Diego 1975; numerous hon. degrees; Albatross Medal, Swedish Royal Soc. of Science and Letters 1952; Agassiz Medal of Nat. Acad. of Sciences 1963; Order of Sitara-i-Imtiaz (Pakistan) 1964; Bowie Medal of American Geophysical Union. *Publications:* Over 100 scientific articles in professional publications. *Address:* 9 Bow Street, Cambridge, Mass. 02138 (Office); 1010 Memorial Drive, Cambridge, Mass. 02138; 7348 Vista Del Mar, La Jolla, Calif. 92037, U.S.A. (Homes). *Telephone:* 617-495-2021 (Office); 617-547-2551 (Home).

REVERDIN, Olivier, D. ÈS L.; Swiss professor, politician and editor; b. 15 July 1913, Geneva: [illegible] Renée Chaponnière 1936; three c.; ed. Univs. of Geneva and Paris, and Ecole Française d'Athènes; school teaching, Geneva and France 1938-41; Attaché Swiss Legation, Rome 1941-44: Lecturer and Asst. Prof. Ancient Greek Literature, Univ. of Geneva 1945-58, Ordinary Prof. 1958-; Parl. Editor Journal de Genève, Berne 1945-54, and Man. Editor 1955-59, Man. 1959-67, Chair. 1972-; Deputy (Liberal) of Geneva at the Conseil Nat. 1955-71, at Conseil des Etats 1971-; Chair. Fondation Hardt pour l'Etude de l'Antiquité Classique 1959-; Chair. Soc. Suisse des Sciences Humaines 1960-68; mem. Nat. Council for Scientific Research 1963-, Chair. 1968-; rep. Consultative Assembly, Council of Europe 1964-, Chair. of the Cultural and Scientific Cttee. 1966, of the Cttee. for Science and Technology 1967-69, Pres. of the Assembly 1969-72; Chair. Fondation pour le Lexicon Iconographicum Mythologiae Classicae 1973-; Vice-Pres. European Science Foundation 1974-; Hon. Fellow Acad. of Athens and Österreichische Akademie der Wissenschaften; Robert Schuman Medal. *Publications:* La religion de la cité platonicienne 1945, La guerre du Sonderbund vue par le Général Dufour 1948, Quatorze calvinistes chez les Topinambous 1957, La Crète, berceau de la civilisation occidentale 1960, Connaissance de la Suisse 1964, Entretiens [illegible] l'Antiquité Classique, Vols. V-XXIV (editor) 1978. *Address:* 8 [illegible] des Granges, 1204 Geneva, Switzerland. *Telephone:* 022-215191.

REXROTH, Kenneth; American author; b. 22 Dec. 1905, South Bend, Ind.; s. of Charles Marion Rexroth and Delia Reed; m. 1st Andree Dutcher 1926 (died 1940), 2nd Marie Kass 1940, 3rd Marthe Whitcomb Larsen 1948, 4th Carol Tinker 1975; two d.; ed. High School in Chicago; independent lecturer, Classic Revisited columns for Saturday Review, contributor and reviewer New York Times, Nation, etc.; Lecturer, Santa Barbara, Univ. of Calif.; two Guggenheim Fellowships, two Commonwealth Club medals, Eunice Tietjens Poetry Magazine Award, Shelley Memorial Award, Longview Foundation Award, Nat. Acad. of Arts and Letters Grant, Rockefeller Grant, Deutscher Akademischer Austauschdienst Grant; mem. Nat. Inst. of Arts and Letters. *Publications:* In What Hour 1940, Phoenix and Tortoise 1944, The Selected Poems of D. H. Lawrence 1947, New British Poets 1948, Signature of All Things 1949, Art of Worldly Wisdom 1949, Dragon and Unicorn 1952, In Defense of the Earth 1956 (verse): Beyond the Mountains 1951 (play); 14 Poems of O. V. Lubicz-Molosz 1952, 100 Poems from the Japanese 1955, 100 Poems from the Chinese 1956, 30 Spanish Poems 1957 (translations); A Bird in the Bush 1959 (essays); The Homestead Called Damascus 1962, Assays (essays) 1961, Poems from the Greek Anthology 1962, Natural Numbers—New and Selected Poems 1963, An Autobiographical Novel 1966, Collected Shorter Poems 1967, The Heart's Garden/The Garden's Heart 1967, The Collected Long Poems of Kenneth Rexroth 1968, The Classic Revisited, Vol. I (essays) 1968, Selected Poems of Pierre Reverdy, Love and the Turning Year, 100 More Chinese Poems, The Alternative Society (essays), With Eye and Ear (essays), The Orchid Boat: the Women Poets of China (with Ling Chung) 1973, The Elastic Retort (essays) 1973, Japanese Women Poets (with Atsumi Ikuko), Communalism, 100 More Poems from the Japanese, The Silver Swan, On Flower Wreath Hill. *Leisure interests:* skiing, mountaineering, swimming, revolution, wine and women. *Address:* 1401 E. Pepper Lane, Santa Barbara, Calif. 93108, U.S.A.

REY, Fernando (Fernando Casade Arambullet); Spanish actor; b. 20 Sept. 1917, La Coruna, Spain; has appeared in many Spanish and European films including: La Gitanilla 1940, Eugenia de Montijo 1944, Reina Santa 1947, Don Quijote de la Mancha 1947, Bienvenido Mr. Marshall 1952, Tangier Assignment 1955, Parque de Madrid 1958, Sonatas 1959, Fabiola 1960, Viridania 1961, Los Palomas 1964, Don Quijote 1966, Cervantes 1967, Tristana 1970; other films include: Guns of the Magnificent Seven 1967, Satyricon 1969, Land Raiders 1969, The Adventurers 1970, The French Connection 1971, Antony and Cleopatra 1972, Discreet Charm of the Bourgeoisie 1972, French Connection II 1975, Quintet 1979. *Address:* Avienda Habana 19, Madrid, Spain.

REY, Henri François, LIC. DE PHIL.; French writer; b. 31 July 1919; ed. Lycée de Perpignan, Univ. of Montpellier; former journalist, broadcaster and scriptwriter. *Publications:* La fête espagnole 1958 (Prix des Deux Magots), La comédie 1960, Les pianos mécaniques 1962 (Prix Interallié), Les chevaux masqués 1965, Le rachdingue 1967, Opéra pour un tyran 1967, Halleluya, [illegible] vie 1970, le Barbare 1972, Schizophrénie [illegible] soeur 1973, Dali dans [illegible] labyrinthe 1974. *Address:* 44 rue Boissonade, 75014 Paris, France.

REY, Jean, D. EN D.; Belgian lawyer and politician; b. 15 July 1902, Liège; s. of Arnold Rey; ed. Athénée Royal, Liège and Univ. of Liège; Advocate, Liège Court of Appeal 1926-; Communal Councillor, Liège 1935-58; Deputy for Liège 1939, 1946-58; Captain of

Reserves 1940; prisoner of war in Germany 1940-45; founder mem. Entente Libérale Wallone; Vice-Pres. Conseil Supérieur de la Famille 1947; Alternative del. UN 3rd Gen. Assembly, Paris 1948, Consultative Assembly, Council of Europe, 1st Session 1949, 5th Session 1953; Minister of Reconstruction (Eyskens Coalition Govt.) 1949-50, of Econ. Affairs 1954-58; mem. and Sectional Pres. for External Relations, European Econ. Community Comm. 1958-67; Pres. of combined Exec. of EEC, ECSC and Euratom 1967-70; mem. Supervisory Board, Philips Electrical Group; Pres. Sonfina Jan. 1971-; Pres. Int. European Movt. 1974-; Grand Officier, Ordre de Léopold, Grand Croix Order of Orange-Nassau, Grand Cordon Order of the Lion of Finland, Commdr. Ordre de la Couronne de Chêne, Croix de guerre. *Address:* 235 rue de la Loi, Brussels, Belgium.

REYES, Narciso G., A.B.; Philippine diplomatist and journalist; b. 6 Feb. 1914; ed. Univ. of Santo Tomas; Assoc. Ed. Philippines Commonweal, Manila 1935-41; mem. Nat. Language Faculty, Ateneo de Manila 1939-41; Assoc. Ed. Manila Post 1945-47; Assoc. News Ed. Evening News, Manila 1947-48: Man. Ed. Philippine Newspaper Guild Organ 1947-48; Adviser to Philippine Mission to UN and Rep. of the Philippines to numerous ECOSOC sessions and UN Gen. Assemblies, and many other UN activities 1948-; Philippine Amb. to U.K. 1967-70; Chair. 19th Session UN Social Devt. Comm. 1968-69; Perm. Rep. to UN 1970-77; Pres. UN Devt. Programme 1974. *Address:* c/o Ministry of Foreign Affairs, Manila, Philippines.

REYNAUD, Roger; French trade unionist and civil servant; b. 19 May 1916; former Inspector, Ministry of Finance, mem. Conseil Economique, mem. Finance Comm., Modernisation and Re-equipment Plan; Sec.-Gen. French Christian Trade Union Fed. 1945; Vice-Pres. Gen. Fed. of Govt. Employees; fmr. mem. Council, Int. Confed. of Christian Trade Unions: Mem. ECSC High Authority 1958-67; Pres. Maison de l'Europe 1968-71; mem. Council of Admin. of Inst. for Industrial Devt. 1970-73, Ecole Polytechnique 1971-: with Ministry of Labour, Employment and Population 1971-72: Officier, Légion d'honneur. *Address:* Quartier Latin, Bâtiment B, rue du Major-Flandre, 34000 Montpellier, France.

REYNOLDS, Anna, F.R.A.M.; British opera and concert singer; b. 5 June 1936, Canterbury; d. of Paul Grey Reynolds and Vera Cicely Turner; ed. Benenden School, Royal Acad. of Music; studied with Professoressa Debora Fambri, Rome; has appeared at many int. festivals including Spoleto, Edinburgh, Aix-en-Provence, Salzburg Easter Festival, Vienna, Beyreuth, Tanglewood; has sung with leading orchestras all over the world including Chicago Symphony, New York Philharmonic, Berlin Philharmonic, London Symphony, etc.; has appeared in opera performances in New York Metropolitan, La Scala, Milan, Covent Garden, Beyreuth, Rome, Chicago Lyric Opera, Teatro Colón, Buenos Aires, Teatro Fenice, Venice and many others; has recorded for Decca, EMI, Polydor, Philips. *Leisure interests:* reading, piano, travel, world-wide correspondence. *Address:* 37 Chelwood Gardens, Richmond, Surrey, TW9 4JG, England. *Telephone:* 01-876 6164.

REYNOLDS, David Parham; American industrial metals executive; b. 16 June 1915, Bristol, Tenn.; s. of late Richard Samuel Reynolds and of Julia Louise Parham; m. Margaret Trezevant Harrison 1944; three d.; ed. Princeton Univ.; Reynolds Metal Co. (now Reynolds Aluminium), Louisville 1937-, Salesman 1937-41, Asst. Man. Aircraft Parts Div. 1941-44, Asst. Vice-Pres. 1944-46, Vice-Pres. 1946-58, Exec. Vice-Pres. 1958-, and Gen Man. 1969-, Vice-Chair. Board 1975, Chair. and Chief Exec. Officer 1976-; Dir. other cos. *Leisure interests:* golf, hunting, racing horses. *Address:* Reynolds Metals Co., 6601 W. Broad Street, Richmond, Va. 23261 (Office); 8905 Tresco Road, Richmond, Va., U.S.A. (Home). *Telephone:* 804-281-4121 (Office).

REYNOLDS, John Hamilton, PH.D.; American professor of physics; b. 3 April 1923, Cambridge, Mass.; s. of Horace Mason Reynolds and Catharine Whitford Coffeen; m. Anne Burchard Arnold 1975; two s. three d. (by previous marriage); ed. Harvard Coll. and Univ. of Chicago; Assoc. physicist, Argonne Nat. Laboratory 1950; Asst. Prof. to Prof. of Physics, Univ. of Calif. at Berkeley 1950-61, Prof. 1961-; Research Prof. Miller Inst. for Basic Research in Science 1959-61, 1967-68, Faculty Research Lecturer 1974; Guggenheim Fellow, Univ. of Bristol, England 1956-57, Nat. Science Foundation Senior Postdoctoral Fellow and Visiting Prof. Univ. of São Paulo, Brazil 1963-64; Fulbright-Hays Research Award (Portugal) 1971-72; mem. Nat. Acad. of Science; U.S.-Australia Co-operative Science Program award, (Perth) 1978-79; John Price Wetherill Medal of Franklin Inst., J. Lawrence Smith Medal of Nat. Acad. of Sciences, Leonard Medal, Meteoritical Soc., NASA Exceptional Scientific Achievement Medal. *Publications:* Research papers and reviews in fields of mass spectroscopy, isotope studies in meteorites, geochronology, solar system chronology, extinct radioactivity, and lunar samples. *Leisure interests:* music, hiking, sailing. *Address:* Department of physics, university of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 415-642-4863.

REYNOLDS, J. Louis; American business executive; b. 3 May 1910, Winston-Salem, N.C.; s. of late Richard Samuel Reynolds and of Julia Louise Parham; m. Glenn Parkinson (deceased); one d.; ed. Louisville High School, McCallie School, Chattanooga, Univ. of Pennsylvania and Duke Univ.; Joined Reynolds Metals Co. 1931, Vice-Pres. and Gen. Sales Man. 1940, Vice-Pres. in charge of operations 1948; Exec. Vice-Pres. and Dir. Reynolds Int. Inc. 1956, Chair. and Chief Exec. 1959-; Pres. and Dir. Eskimo Pie Corpn., Canadian British Aluminium Corpn., Reynolds Jamaica Mines Ltd.; Dir. American Fidelity Life Insurance Co., Robertshaw Controls Co., Metropolitan Nat. Bank; Hon. LL.D.(Arkansas). *Address:* Reynolds International Inc., Richmond, Va. (Office); 5511 Cary Street Road, Richmond, Va., U.S.A. (Home).

REYNOLDS, Peter William John, C.B.E.; British business executive; b. 10 Sept. 1929, Singapore; ed. Haileybury Coll.; formerly with Walls (div. of Unilever) latterly Chair.; Asst. Man. Dir. Ranks Hovis McDougall 1971, Man. Dir. April 1972-. *Leisure interests:* squash, beagling, riding (occasionally), watching rugby football, reading, gardening. *Address:* Ranks Hovis McDougall Ltd., RHM Centre, P.O. Box 551, 152 Grosvenor Road, London SW1V 3JL (Office); White House, Beamond End, Amersham, Bucks., England (Home).

REYNOLDS, Quentin; American business executive; b. 1906, Calif.; ed. St. Mary's Coll. of California; with Safeway Stores Inc. 1923-, starting as part-time Food Clerk, then through various operating and exec. posts until Man. of San Francisco Div. 1956, Vice-Pres. 1960, Regional Retail Man. 1962, Dir. 1964, Senior Vice-Pres. in Charge of all Safeway Retail Operations in U.S., and Advertising and Market Research and Grocery Merchandising Divs. at Admin. Office 1964, Pres. and Exec. Officer in Charge of Company Operations 1966-, Chair. 1971-; appt. by Pres. Johnson to Exec. Board of Nat. Alliance of Businessmen; Dir. Calif. State Chamber of Commerce. *Address:* Safeway Stores Inc., 201 4th Street, Oakland, Calif., 94607, U.S.A.

REYNOLDS, Richard Samuel, Jr.; American business executive; b. 27 May 1908, Winston-Salem, N. Carolina; s. of R. S. Reynolds and Louise Parham Reynolds; m. Virginia Sargeant; two s. (one s. died 1971); ed. Univ. of Pennsylvania; mem. New York Stock Exchange 1930; formed Reynolds & Co. 1930; Asst. to Pres. Reynolds Metals Co. 1938, Treas. 1938-44, Vice-Pres., Treas. 1944-48, Pres. 1948-63, Chair. 1963-71, Chair., Pres. 1971-75, Chair., Chief Exec. Officer 1975-76, Chair. Exec. Cttee. 1976-77, Hon. Chair. of Board 1977-; Dir. Lawyers Title Insurance Corpn., Richmond Cen. Nat. Bank; Dir. Commonwealth Banks, Inc., Richmond; Trustee Graduate mem. Business Council, Univ. of Richmond; Trustee Emer., Univ. of Pennsylvania; Trustee, Nat. Safety Council, many other civic and business orgs.; Hon. D.S.C. (Richmond); Hon. mem. American Inst. of Architects 1970; Human Relations Award (American Jewish Cttee.) 1968, B'nai B'rith Humanitarian Award 1974, Va. State Chamber of Commerce Distinguished Service Award 1977. *Leisure interests:* horse racing, fox hunting, shooting. *Address:* Reynolds Metals Co., Richmond, Va. 23261, U.S.A.

REYNOLDS, William G.; American business executive; b. 17 Feb. 1913, Bristol, Tenn.; m. 1st Mary Spottswood Nicklas 1935, 2nd Charlene Moore 1974; two s. two d.; ed. Kentucky Military Inst., Hun Preparatory School, Brown School and Columbia Univ.; joined Reynolds Metals Co. 1939, now Exec. Vice-Pres. (Research and Devt.) and mem. Exec. Cttee.; Dir. several subsidiary cos. of Reynolds Metals; Pres. Reynolds Inst., Inc.; mem. American Ordnance Assen., Assen. of U.S. Army and American Soc. of Metals; Medal of American Soc. of Metals. *Leisure interest:* polo. *Address:* Reynolds International Inc., Richmond, Va., U.S.A.

REYRE, Jean André Marie; French banker; b. 9 Dec. 1899, Saintines, Oise; ed. Faculté de Droit de Paris and Ecole Libre des Sciences Politiques; entered Banque de Paris et des Pays-Bas 1924, Asst. Man. 1941, Man. 1945, Dir.-Gen. 1948, Dir. 1955, Vice-Pres. Dir.-Gen. 1962-67, Pres. Dir.-Gen. 1967-69; Pres. Cie. financière de Paris et des Pays-Bas 1968-69, Dir. 1970-75, Hon. Pres. 1975-; Vice-Pres. Paribas Corpn.; Pres. Compagnie Centrale de Financement; Vice-Pres. Cie. Générale de Participations et d'Entreprises, C.S.F., Soc. Belge COPEBA; Pres. Soc. de Banques pour le financement et le recouvrement 1971-, Compagnie int. pour le financement de l'énergie nucléaire (Cifen) 1972-; Pres. Int. Nuclear Finance Holding 1974-; Dir. several other companies; Commdr. Légion d'honneur, Croix de guerre (First World War). *Address:* 96 avenue de Suffren, 75015 Paris, France.

RHALLYS, George J., LL.D; Greek lawyer; b. 26 Dec. 1918; m. Helene Voultsos 1950; two d.; ed. Athens Univ.; served Reconnaissance Groups 1940-41 and Tank Corps 1945-48; elected Deputy for Athens 1950-58, 1961-67, 1974-; mem. Greek del. to European Council, Strasbourg 1953-58; Minister to Prime Minister's Office 1954-56, of Public Works and Communications 1956-58, of the Interior 1961-63, of Public Order April 1967; under house arrest April-May 1967, in prison and exile May-Sept. 1968; Minister to Prime Minister's Office 1967, 1974-77, for Co-ordination and Planning 1977-78, for Foreign Affairs May 1978-; mem. Popular Party 1950, Nat. Rally 1951, Nat. Radical Union 1956, New Democratic Party 1974; Medal of Valour, War Cross with two bars, d.S.M., and several foreign awards. *Publications:* John Rhallys 1946, The Possibility of Increasing the Yield of Greek Agriculture 1952, Democracy and Communism 1959, The Truth about the Greek Politicians (in Greek) 1971, The Technique of Violence 1972. *Leisure interest:* golf. *Address:* 4 Kanari Street, Athens, Greece.

RHAM, Georges-William de, D. ès SC. MATH.; Swiss mathematician; b. 10 Sept. 1903, Rochd, Vaud; s. of Léon de Rham and Marie (né DuPasquier) de Rham; ed. Collège d'Aigle, Gymnase classique de Lausanne, and Univs. de Lausanne et Paris; Privat-Docent, Univ. of Lausanne 1932, Extraordinary Prof. 1936-43, Full Prof. 1943-71, Hon. Prof. 1971-; Extraordinary Prof. Univ. of Geneva 1936-53, Full Prof. 1953-73, Hon. Prof. 1973-; mem. Swiss Nat. Council for Scientific Research 1956-69; Visiting Prof. Harvard Univ. 1949-50; temporary mem. Inst. for Advanced Study, Princeton 1950, 1957-58; Pres.Int. Mathematical Union 1962-66; Corresp. mem. Math. and Physics Section Acad. of Sciences, Göttingen; Foreign mem. Accad. dei Lincei; Foreign Assoc. mem. Acad. of Sciences, Inst. de France; Dr. h.c. (Univs. of Strasbourg, Grenoble, Lyon and Swiss Fed. Polytechnical Inst.); Marcel Benoist Prize. *Publications include:* Variétés différentiables, Formes, Courants, Formes harmoniques 1955. *Leisure interest:* alpinism. *Address:* 7 avenue des Bergières, Lausanne, Switzerland. *Telephone:* 021-37-19-74.

RHEA, Alexander Dodson, III; American motor executive (retd.); b. 10 May 1919, Whitney, Tex.; m. Suzanne Menocal 1945; one s.; ed. Texas Christian Univ. and Princeton Univ.; U.S. Navy 1941-45, Lt.-Commdr. U.S. Naval Reserve; Vice-Pres. Govt. Employees Insurance Co., Washington 1946-48; with Gen. Motors 1948-, posts in S. America 1948-55, in Germany and N.Y. 1955-63; Regional Group Exec. 1963; Man. N.Y. Staff, Gen. Motors Overseas Operations 1966; Man. Dir., Gen. Motors Holden's Pty. 1968; Chair. and Man. Dir. Vauxhall Motors Ltd. 1970; Chair. Gen. Motors European Advisory Council and Exec. Vice-Pres. and Dir., Gen. Motors Overseas Corpn. 1974-77. *Leisure interests:* reading, golf. *Address:* 72 Chester Square, London, S.W.1, England (Home). *Telephone:* 01-730 5935 (Home).

RHOADS, James Berton, PH.D.; American archivist; b. 17 Sept. 1928, Sioux City, Iowa; s. of James H. and Mary K. Rhoads; m. S. Angela (Handy) Rhoads 1947; one s. two d.; ed. Univ. of California (Berkeley) and the American Univ., Washington, D.C.; held various positions in the Nat. Archives 1952-65; Asst. Archivist, Civil Archives 1965-66; Deputy Archivist of U.S.A. 1966-68; Archivist of U.S.A. 1968-; mem. Fed. Council on Arts and Humanities, Harry S. Truman Library Inst. for Nat. and Int. Affairs, Org. of American Historians, American Historical Assn.; mem. Board of Trustees, Woodrow Wilson Int. Center for Scholars; Fellow, Soc. of American Archivists, Pres. 1974-75; Pres. Int. Council on Archives; Vice-Pres. Intergovernmental Council on Gen. Information Program, UNESCO, and mem. numerous other related orgs. *Publications:* numerous articles in professional journals. *Leisure interests:* reading, philately. *Address:* Room 111, National Archives Building, 8th and Pennsylvania Avenue, N.W., Washington, D.C. 20408, U.S.A. *Telephone:* (202) 523-3134.

RHODES, James Allen; American politician; b. 13 Sept. 1909, Coalton, Jackson County, Ohio; m. Helen Rawlins; three d.; ed. Ohio State Univ.; former Columbus City Auditor; Mayor of Columbus, Ohio 1943-52; Auditor of State, Ohio 1952-62; Gov. of Ohio 1963-70, 1975-; Chair. Nat. Council of Vocational Educ.; mem. U.S. Olympic Cttee.; hon. degrees from Miami, Akron, Capital, Youngstown, Wilberforce, Toledo, Cincinnati, Ohio State and Ohio Univs.; Helms Foundation Award. *Publications:* The Trial of Mary Todd Lincoln (co-author), Johnny Shiloh (co-author), The Court Martial of Commodore Perry (co-author), Teenage Hall of Fame, Alternative to Decadent Society. *Address:* State Capitol, Columbus, Ohio 43215, U.S.A.

RHODES, John Jacob, B.S., LL.B.; American lawyer and politician; b. 18 Sept. 1916, Council Grove, Kan.; s. of John J. and Gladys Thomas Rhodes; m. Mary Elizabeth (Betty) Harvey 1942; three s. one d.; ed. Kansas State Coll., Harvard Univ.; served World War II, Col.; Partner, Rhodes, Killien & Legg, law firm, Mesa, Ariz. 1946-52; Vice-Pres., Dir. Farm Home, Life Insurance Co. 1951; Vice-Chair. Ariz. State Board of Public Welfare 1951-52; mem. 83rd-94th Congresses; mem. Exec. Board, Nat. Republican Congress 1953-62; Chair. Special Projects Sub-Cttee., Repub. Policy Comm. 1961-65; Chair. Repub. Policy Comm. 1965-73; Chair. Repub. Platform Cttee. 1972; Perm. Chair. Repub. Nat. Convention 1976; Minority Leader, House of Reps. 1973-. *Leisure interest:* golf. *Address:* H-230, The Capitol, Washington, D.C. 20515 (Office); 1114 N. Cherry, Mesa, Ariz. 85201, U.S.A. (Home). *Telephone:* (202) 225-0600 (Office); (602) 833-2267 (Home).

RIABOV, Iakov Petrovich; Soviet politician; b. 1928; ed. Urakst Polytechnic Inst.; mem. CPSU 1954; Design engineer, dept. head at Sverdlovsk turbine and motor works 1946-58; Party official 1958-63; First Sec. of Sverdlovsk city cttee. CPSU 1963-66; second Sec. of Sverdlovsk region cttee. CPSU 1966-71, First Sec. 1971-; mem. Cen. Cttee. CPSU 1971-; Deputy to the Supreme Soviet, U.S.S.R.; various decorations. *Address:* Sverdlovsk Region Committee of the CPSU, Sverdlovsk, U.S.S.R.

RIAD, Mahmoud; Egyptian diplomatist; b. 8 Jan. 1917; ed. Military Acad. and General Staff Coll.; Egyptian Rep. to Mixed Armistice Comm. 1949-52; Dir. Dept. of Arab Affairs, Ministry of Foreign Affairs 1954-55; Amb. to Syria 1955-58; President's Counsellor on Foreign Affairs 1958-62; Chair. U.A.R. del. to UN Econ. Comm. for Africa 1961, Perm. Rep. to UN 1962-64; Minister of Foreign Affairs under Deputy Prime Minister for Foreign Affairs 1964-71; Deputy Premier and Minister of Foreign Affairs May 1971-Jan. 1972; Presidential Adviser Jan.-June 1972; Sec.-Gen. Arab League 1972-79. *Address:* c/o Ministry of Foreign Affairs, Cairo, Egypt.

RIBEIRO, H. E. Cardinal António, TH.D.; Portuguese ecclesiastic; b. 21 May 1928, Celorico de Basto; s. of José Ribeiro and Ana Gonçalves; ed. Seminary of Braga and Pontifical Univ., Rome; ordained priest 1953; Prof. Univ. of Lisbon 1965-67; Auxiliary Bishop of Braga 1967; Auxiliary Bishop of Lisbon 1970; Patriarch of Lisbon 1971; Cardinal-Patriarch 1973-. *Publications:* The Aevum According to Thomas Aquinas 1958, The Socialization 1964. *Leisure interests:* sport, philately, travel. *Address:* Campo dos Mártires da Pátria 45, Lisbon 1, Portugal. *Telephone:* 56-39-01.

RIBEYRE, Paul; French businessman and politician; b. 11 Dec. 1906, Aubagne; m. Andrée Offant 1939; three s.; Dir. La Reine Mineral Water Co.; Deputy from Ardèche to the two Constituent Nat. Assemblies 1945-46; Deputy to Nat. Assembly 1946-58; Senator for Ardèche 1958-; Under-Sec. of State for Public Health and Population 1949, Minister of Public Health 1951-52, of Commerce 1953, of Justice 1953-54, of Industry May 1958; Pres. Conseil Gen. de l'Ardèche 1967-, Assen. Parlementaire pour la Liberté de l'Enseignement, Club Européen de la Santé 1970; Pres. Conseil Régional Rhônes-Alpes 1974-; Mayor of Val-les-Bains 1945-; Chevalier de la Légion d'honneur; mem. Directing Cttee. of Centre Democrat Party 1966-. *Leisure interests:* music, painting. *Address:* 84 avenue Kleber, 75116 Paris, France. *Telephone:* 704-53-32.

RIBIČIČ, Mitja; Yugoslav politician; b. 1919, Trieste; ed. Univ. of Ljubljana; mem. of Communist Party 1941-; mem. Cen. Cttee., League of Communists of Slovenia, League of Communists of Yugoslavia (LCY); mem. Presidium of Cen. Cttee. of LCY; mem. Slovene del. to Chamber of Nationalities of Fed. Assembly; has held various posts in the Slovene Govt. and the Yugoslav Fed. Govt.; Pres. Fed. Exec. Council 1969-71; mem. Presidency of Fed. Repub. 1971-74, Vice-Pres. 1973-74. *Address:* Savez komunista Jugoslavije, Bulevar Lenjina 6, Novi Beograd, Yugoslavia.

RIBICOFF, Abraham A. (Abe), LL.B.; American lawyer and politician; b. 9 April 1910; ed. Univ. of Chicago; admitted to Connecticut Bar 1933; served on Conn. Legislature 1938-42; Judge Hartford Municipal Court 1942-43 and 1945-47; mem. House of Reps. 1949-53; Gov. of the State of Conn. 1955-61; Sec. of Health, Educ. and Welfare 1961-62; U.S. Senator from Conn. 1963-79; del. U.S. mission to the UN; Democrat. *Address:* Cornwall Bridge, Conn. 01754, U.S.A.

RIBOUD, Antoine Amédée Paul; French business executive; b. 24 Dec. 1918, Lyons; s. of Camille Riboud and Hélène Frachon; brother of Jean Riboud (*q.v.*); m. Lucette Hugonnard-Roche 1943; three s. one d.; ed. Ecole Supérieure de Commerce, Paris; joined Verreries Souchon-Neuvesel 1943, mem. Board of Dirs. and Sec.-Gen. 1952-62, Vice-Pres. 1962-65, Dir.-Gen. 1962-66, Pres. 1965-66; Pres. and Dir.-Gen. Soc. Boussois-Souchon-Neuvesel 1966-72; Pres. Boussois-Souchon-Neuvesel-Gervais-Danone 1973-; Vice-Pres. Cie. Gervais-Danone 1973-; Dir., later Dir.-Gen. Verreries de Gironcourt

1963-68; Dir., later Pres. and Dir.-Gen. Soc. des eaux minérales d'Evian-les-Bains 1966-70; Vice-Pres. Glaverbel-Mecaniver, Brussels 1969-; Pres. and Dir.-Gen. Soc. européenne de brasseries 1970–;Pres. Soc. moderne de boissons 1972-; Dir. cie financière de Paris et des Pays-Bas, Pricel, Cie. française Philips, Soc. des eaux minérales d'Evian, Dahlbusch, Vereenig de Glasfabrieken (Netherlands), Soc. pour l'exploitation et la vente des produits Fruité et Eva; Pres. Centre Nat. d'information pour la productivité des entreprises 1969-70, Assen. Progrès et Environnement 1971-; mem. Loan Cttee. Crédit Nat., Cercle de l'Union. *Address:* Boussois-Souchon-Neuvesel-Gervais-Danone, 22 Boulevard des Malesherbes, 75008 Paris; 126 rue Jules-Guesde, 92302 Levallois-Peret (Offices); 13 rue Laurencin, 69002 Lyons, France (Home).

RIBOUD, Jean; French industrialist; b. 15 Nov. 1919, Lyons; s. of Camille Riboud and Hélène (née Frachon); brother of Antoine Riboud (*q.v.*); m. Krishna Roy 1949; one s.; ed. Faculté de Droit, Paris, and Ecole des Sciences Politiques; Dir. of Schlumberger Ltd. (oil drillings, instruments, electronics) 1956-, Pres. and Chief Exec. Officer, Chair. 1965-; Dir.-Gen. Soc. de Prospection Electrique Schlumberger 1957-65; Dir. Cie financière de Paris et des Pays-Bas 1971-, Cie. Luxembourgeoise de Télédiffusion. *Address:* 42 rue Saint Dominique, 75007 Paris, France.

RICCARDO, John Joseph; American motor company executive; b. 2 July 1924, Little Falls, N.Y.; m. Thelma Riccardo; five c.; ed. Univ. of Michigan; formerly Man. of public accounting firm; Financial Staff Exec. on Int. Operations Staff, Chrysler Corpn. 1959-60, Gen. Man. Export-Import Div. 1960-61, Vice-Pres., then Exec. Pres. Chrysler Canada Ltd. 1961-63, Gen. Sales Man. Dodge Car and Truck Div. 1963-65, also Asst. Gen. Man. Dodge Car and Truck Div. 1964-65; Asst. Gen. Man. Chrysler-Plymouth Div. 1965-66, Vice-Pres. Marketing, Chrysler Corpn. 1966-67, Group Vice-Pres. Domestic Automotive Jan. 1967-April 1967, Group Vice-Pres. U.S. and Canadian Automotive 1967-70, Pres. Chrysler Corpn. 1970-75, Chair. and Chief Exec. Officer 1975-; served with U.S. Army Quartermaster Corps in World War II; Vice-Pres. and mem. Exec. Cttee. United Foundation of Detroit; mem. Michigan Assen. of Certified Public Accountants, American Inst. of Certified Public Accountants. *Address:* Chrysler Corporation, P.O. Box 1919, Detroit, Mich. 48288 (Office); 2243 Tottenham, Birmingham, Mich., U.S.A. (Home). *Telephone:* 313-956-2894 (Office).

RICCI, Ruggiero; American violinist; b. 24 July 1918, San Francisco; s. of Pietro Ricci and Emma Bacigalupi; m. Ruth Rink 1942, Valma Rodriguez 1957; two s. three d.; Julia Whitehurst Clemens 1978; ed. under Louis Persinger, mischei piastro, Paul Stassévitch and Georg Kulenkampff; debut with Manhattan Symphony Orchestra, New York 1929; first tour of Europe 1932; served U.S.A.F. 1942-45; now makes annual tours of U.S.A. and Europe; has made 13 tours of S. America, five tours of Australia, two tours of Japan and three tours of U.S.S.R.; played the first performances of the violin concertos of Ginastera, Von Einem and Veerhoff; specializes in violin solo literature; teacher of violin Juilliard School of Music, New York. *Address:* c/o Herbert Barrett, 1860 Broadway, New York, N.Y. 10023, U.S.A.

RICCIARDI, Franc M., M.A.; American business executive; b. 21 Aug. 1923, Glen Ridge, N.J.; s. of late John Ricciardi and Rose (Codella) Ricciardi; m. Rosemarie Stivaly 1945; three d.; ed. Rutgers Univ.; U.S. Army Service 1942-44; Asst. Prof. of Finance, Univ. of Vermont 1947-51; Assoc. Dir. New York Stock Exchange Inst. 1951-53; Vice-Pres. American Man. Assen. 1953-58; Pres. Kimball Co., Orange, N.J.; Vice-Pres. Monroe Int. 1958-64; joined Walter Kidde & Co. Inc. 1964, Pres. 1966-69, Chair. Exec. Cttee. Feb. 1969-; Chair. and Pres. Richton Int. Corpn. 1969-; Dir. Richton Int. Corpn. *Publications:* Wall Street Explains Its Operations 1951, Our Changing Economy and the Securities Markets 1951, Top Management Decision Simulation 1957. *Leisure interest:* fishing. *Address:* Richton International Corpn., 1345 Avenue of the Americas, New York, N.Y. 10019 (Office); 268 Highland Avenue, Ridgewood, N.J. 07450, U.S.A. (Home). *Telephone:* (212) 765-6480 (Office).

RICE, Oscar Knefler, B.S., PH.D.; American physical chemist; b. 12 Feb. 1903, Chicago, Ill.; s. of Oscar Guido Rice and Thekla Knefler; m. Hope Ernestyne Sherfy 1947; two d.; ed. San Diego Junior Coll. and Univ. of California at Berkeley; Nat. Research Council Fellow, Calif. Inst. of Technology and Univ. of Leipzig 1927-30; Instructor in Chem. Harvard Univ. 1930-35; Research Assoc. Univ. of Calif. at Berkeley 1935-36; Assoc. Prof. of Chem. Univ. of N. Carolina 1936-43, Prof. 1943-59, Kenan Prof. of Chem. 1959-75, Kenan Prof. Emer. 1975-; Principal Chemist, Oak Ridge Nat. Laboratory 1946-47; Visiting Prof. Va. Polytechnic Inst. 1968, Seydel-Woolley Visiting Prof. of Chem. Georgia Inst. of Technology 1969; O. M. Stewart Lecturer Univ. of M. 1948, Reilly Lecturer, Univ. of Notre Dame 1957, Barton Lecturer, Univ. of Okla. 1967; Distinguished Lecturer, Howard Univ. 1971; Welch Lecturer 1971; mem. Réunion Int. de Chimie Physique, Paris 28, 12th Solvay Congress in Chem., Brussels 1962; on Chem. Panel, Nat. Science Foundation 1958-61 and Army Research Office, Durham 1967-72; Fellow A.A.A.S., American Physical Soc., mem. American Chemical Soc. (Sec. and Chair. of Div. of Physical and Inorganic Chem. 1941-44), Chem. Soc. (London), Fed. of American Scientists (and on Board of Sponsors), N.A.S., etc.; American Chemical Soc. Award in Pure Chem. 1932, Southern Chemist Award 1961, State of N. Carolina Award in Science 1966, Florida Section Award, American Chemical Soc. 1967, Peter Debye Award, American Chemical Soc. 1970, Charles H. Stone Award, Carolina-Piedmont Section of American Chem. Soc. 1972. *Publications:* Electronic Structure and Chemical Binding 1940, Statistical Mechanics, Thermodynamics and Kinetics 1967; articles in scientific journals. *Address:* Department of Chemistry, University of North Carolina, Chapel Hill, N.C. 27514 (Office); 311 Clayton Road, Chapel Hill, N.C. 27514, U.S.A. (Home). *Telephone:* (919) 933-1218 (Office); (919) 942-1627 (Home).

RICE, Stuart Alan, B.S., A.M., PH.D.; American professor of chemistry; b. 6 Jan. 1932, New York City; s. of Laurence Harlan Rice and Helen Rayfield; m. Marian Coopersmith 1952; two d.; ed. Brooklyn Coll. and Harvard Univ.; Asst. Prof. Dept. of Chem. and Inst. for the Study of Metals, Univ. of Chicago 1957-59, Assoc. Prof. Inst. for the Study of Metals (later James Franck Inst.) 1959-60, 1960-69, Louis Block Prof. of Physical Sciences 1969-, Chair. Dept. of Chemistry 1971-, Frank P. Hixon Distinguished Service Prof. 1977–;Bourke Lecturer, Faraday Soc. 1964; Lecturer, numerous univs. in U.S. and abroad; Alfred P. Sloan Fellow 1958-62, Guggenheim Fellow 1960-61 Nat. Science Foundation Senior Postdoctoral Fellow and Visiting Prof. Univ. Libre de Bruxelles 1965-66; Louis Block Prof. of Chem., Univ. of Chicago 1969; Nat. Insts. of Health Special Research Fellow and Visiting Prof. H. C. Orsted Inst., Univ. of Copenhagen 1970-71; Fellow, American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences; Foreign mem. Royal Danish Acad. of Science and Letters 1976; A. Cressy Morrison Prize in Natural Sciences, New York Acad. of Sciences 1955, American Chem. Soc. Award in Pure Chem. 1962, Marlow Medal, Faraday Soc. 1963, Llewllyn John and Harriet Manchester Quantrell Award 1970, Leo Hendrik Baekeland Award 1971, etc. *Publications:* Polyelectrolyte Solutions (with Mitsuru Nagasawa) 1961, Statistical Mechanics of Simple Liquids (with Peter Gray) 1965; and 285 papers on chemical physics in scientific journals. *Leisure interests:* reading, carpentry. *Address:* The James Franck Institute, The University of Chicago, 5640 Ellis Avenue, Chicago, Ill. 60637 (Office); 5421 Greenwood Avenue, Chicago, Ill. 60615, U.S.A. (Home). *Telephone:* 753-8214 (Office): 667-2679 (Home).

RICE, Walter Lyman, A.B., LL.B.; American diplomatist; b. 29 July 1903, Peever, S. Dakota; m. Inger Vestergaard; one s. one d.; ed. Univ. of Minnesota and Harvard Univ.; law practice, New York City 1928-30; Special Asst. to Attorney-Gen. of U.S. 1930-41; Vice-Pres. and Dir. Reynolds Metals Co. 1941-68; also served as Gen. Counsel, Reynolds Metals Co. and Pres. and Dir. Reynolds Mining Corpn.; Amb. to Australia 1969-73; Consultant Reynolds Int. 1973–.*Address:* Lock Island, 1000 Lock Island, Richmond, Va. 23229, U.S.A.

RICH, Alexander, M.D.; American molecular biologist; b. 15 Nov. 1924, Hartford, Conn.; s. of Max Rich and Bella Shub; m. Jane Erving King 1952; two s. two d.; ed. Harvard Coll. and Harvard Medical School; served U.S. Navy 1943-46; Research Fellow, Gates and Crellin Labs., Calif. Inst. of Tech. 1949-54; Chief of Section on Physical Chem., Nat. Inst. of Mental Health 1954-58; visiting Scientist, Cavendish Lab., Cambridge, U.K. 1955-56; Assoc. Prof. of Biophysics, M.I.T. 1958-61, Prof. 1961-, William Thompson Sedgwick Prof. of Biophysics 1974-; Senior Consultant, Office of Science and Tech. Policy, Exec. Office of the Pres. 1977-; mem. Editorial Board Science 1963-69, Proceedings of the National Academy of Sciences 1973-78 and other journals; mem. Council of American Acad. of Arts and Sciences 1967-, Chair. Nominating Cttee. 1974-77; Chair. Cttee. on U.S.S.R. and E. Europe Exchange Program, N.A.S. 1973-76; Biology Team of Viking Mars Mission, NASA 1969-, Advisory Board of Acad. Forum, N.A.S. 1975-, Scientific Advisory Board of Stanford Synchrotron Radiation Project 1976-, U.S. Nat. Science Board 1976-, Board Govs. Weizmann Inst. of Science 1976-, Research Cttee., The Medical Foundation, Boston, Mass. 1976-, U.S.-U.S.S.R. Joint Comm. on Science and Tech., Dept. of State 1977-, Scientific Advisory Board, Mass. Gen. Hospital 1978-, Scientific Review Cttee., Howard Hughes Medical Inst. 1978-, and other cttees.; mem. American Chem. Soc. and other socs., N.A.S. 1970-; Fellow, Nat. Research Council 1949-

51, American Acad. of Arts and Sciences 1959, Guggenheim Foundation 1963, A.A.A.S. 1965, mem. Pontifical Acad. of Sciences, The Vatican 1978; Skylab Achievement Award, NASA 1974; Theodore von Karmin Award 1976, Presidential Award, New York Acad. of Science 1977, Newcomb Cleveland Award, American Assn. for Advancement of Science 1978. *Publications:* Structural Chemistry and Molecular Biology 1968; over 250 publications in the field of molecular structure of nucleic acid components, nucleic acids and polynucleotides, physical chem. of nucleotides and polynucleotides, molecular structure of proteins, mechanism of protein synthesis, molecular biology of the nucleic acids, X-ray crystallography, origin of life. *Leisure interests:* ocean sailing in small boats, growing tomato plants, collecting fossils. *Address:* Department of Biology, Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); 2 Walnut Avenue, Cambridge, Mass. 02140, U.S.A. (Home). *Telephone:* (617) 253-4715 (Office); (617) 547-1637 (Home).

RICHARD, Cliff; British singer and actor; b. (as Harry Roger Webb) 14 Oct. 1940, India; s. of Roger and Dorothy Webb; ed. Riversmead School, Cheshunt; first successful record Move It 1958; plays guitar; own television series on BBC and ITV; various repertory and variety seasons; Top Box Office Star of Great Britain 1962-63, 1963-64; awarded Gold Discs (for sales over ■ million each) for Living Doll, The Young Ones, Bachelor Boy, Lucky Lips, Congratulations, Power to All Our Friends, Devil Woman; also 24 Silver Discs (for sales over 250,000); films: Serious Charge 1959, Expresso Bongo 1960, The Young Ones 1961, Summer Holiday 1962, Wonderful Life 1964, Finders Keepers 1966, Two A Penny 1968, His Land, Take Me High 1973. *Publication:* Which One's Cliff? 1977. *Leisure interests:* swimming, badminton. *Address:* c/o Peter Gormley, 16 Harley House, Marylebone Road, London, NW1 4PZ, England.

RICHARD, Ivor Seward, M.A., Q.C.; British politician and diplomatist; b. 30 May 1932, Cardiff; s. of Seward Thomas and Isabella Irene Richard; m. Alison Mary Imrie 1962; two s. one d.; ed. Cheltenham Coll., Pembroke Coll., Oxford; called to the Bar 1955; M.P. for Barons Court 1964-74; Parl. Private Sec. to Sec. of State for Defence 1966-69; Under-Sec. of State for Defence for Army 1969-70; Queen's Counsel 1971; Perm. Rep. to UN 1974-79; Chair. Rhodesia Conf., Geneva 1976; labour. *publications:* Europe or the Open Sea 1971, and articles in various political journals. *Leisure interests:* playing piano, watching football, talking. *Address:* 47 Burntwood Grange Road, London, S.W.18, England (Home). *Telephone:* 01-870 1473 (Home).

RICHARDS, Arthur L.; American diplomatist (retd.); b. 21 June 1907, Emmett, Ida.; s. of Arthur A. and Sedenia (Dunford) Richards; m. Ida Elizabeth Parker; two s. one d.; ed. Pasadena Jr. Coll., George Washington Univ. and Nat. War Coll.; joined Foreign Service 1930, Mexico, Washington, Teheran, Jerusalem, Cairo, Cape Town, Pretoria, Washington, Teheran 1930-52; Dir. Office of Greek, Turkish and Iranian Affairs, Dept. of State 1952-54; Consul-Gen. Istanbul 1954-56; Operations Co-ordinator, Dept. of State 1956-58; Special Asst. to Under-Sec. of State for Law of Sea 1958-60; Amb. to Ethiopia 1960-62; Deputy Rep. of U.S. to 18-Nation Disarmament Cttee., Geneva 1963-65; Dir. Washington Int. Center 1968-73; retd. 1973. *Address:* 4902 Rockmere Court, Washington, D.C. 20016, U.S.A.

RICHARDS, Audrey Isabel, C.B.E., M.A., PH.D., F.B.A.; British anthropologist; b. 8 July 1899; d. of Henry Erle Richards, Kt., and Isabel Mary Butler; ed. Cambridge and London Univs.; Field research Bemba tribe, N.E. Rhodesia 1930-34; Basutoland 1936-40; Uganda 1950-58; Lecturer in Social Anthropology, L.S.E. 1935-38, Senior Lecturer, Univ. of the Witwatersrand, Johannesburg 1938-40; Principal, Colonial Office 1941-45; Reader in social Anthropology, London Univ. 1946-50; Dir. East African Inst. of Social Research, Makerere Coll., Uganda 1950-56; Smuts Reader in Anthropology, Univ. of Cambridge 1961-66; Pres. Royal Anthropological Inst. 1959-61; Dir. Anglia Television Co. 1959-63; Pres. African Studies Assn. 1963-66; Fellow Newnham Coll. 1956, now Hon. Fellow; Overseas Fellow, American Acad. of Arts and Sciences 1974; Rivers Memorial Medal, Wellcome Medal. *Publications:* Hunger and Work in ■ Savage Tribe 1933, Land, Labour and Diet in N. Rhodesia 1939, Chisungu, ■ Study of Girls' Initiation Ceremonies in N. Rhodesia 1956, The Changing Structure of a Ganda Village 1966, The Multicultural States of East Africa 1969, Councils ■ Action (with A. Kuper) 1971, Subsistence to Commercial Farming in Buganda 1973, Some Elmdon Families (with Jean Robin) 1975; Editor: Economic Development and Tribal Change 1954, East African Chiefs 1960. *Leisure interest:* walking. *Address:* Crawley Cottage, Elmdon, Saffron Walden, Essex, England. *Telephone:* Chrishall 540.

RICHARDS, Sir Edward Trenton, Kt., C.B.E., J.P., M.P.; Bermudan politician; b. ■ Oct. 1908, Berbice, British Guiana; s. of George A. Richards and Millicent (née Williams); m. Madree E. Williams; one s. two d.; ed. Collegiate School and Queen's Coll., British Guiana; former teacher at Berkeley Inst., Bermuda; called to the Bar, Middle Temple, London 1946; mem. Bermudan House of Assembly 1948-; fmr. Chair. Public Transportation Board, Transport Control Board, Joint Parl. Cttee. investigating Racial Discrimination in Hotels and Restaurants, Berkeley Educ. Soc. 1956-72; mem. Board of Health, Board of Social Welfare and numerous other boards and cttees.; Minister for Immigration and Labour and Deputy Govt. Leader 1968-71, Premier 1972-75; Bermudan rep. at Commonwealth Parl. Assn. Conf., Lagos 1962, Kuala Lumpur 1971; Head dels. to ILO confs., Geneva 1969, 70, 71; Hon. LL.D. (Wilberforce Univ., U.S.A.) 1960. *Leisure interests:* sport, reading, music. *Address:* "Wilton", Keith Hall Road, Warwick East, Bermuda. *Telephone:* 2-3645.

RICHARDS, Frederic Middlebrook, PH.D.; American biochemist; b. 19 Aug. 1925, New York; s. of George and Marianna Richards; m. Sarah Wheatland 1959; one s. two d.; ed. Mass Inst. Inst. of Technology and Harvard Univ.; Research Fellow, Physical Chem., Harvard Univ. 1952-53; Nat. Research Council Fellow, Carlsberg Lab., Denmark 1954; Nat. Science Foundation Fellow, Cambridge Univ., U.K. 1955; Asst. Prof. of Biochemistry, Yale Univ. 1955-59, Assoc. Prof. 1959-62, Prof. 1963-, Chair. Dept. of Molecular Biology and Biophysics 1963-67, Dept. of Molecular Biophysics and Biochemistry 1969-73; Dir. Council Int. Union of Pure and Applied Biophysics 1975-, Jane Coffin Childs Memorial Fund for Medical Research; Corpn. mem. Woods Hole Oceanographic Inst.; ■ Scientific Board Whitney Lab. for Experimental Marine Biology and Medicine; mem. Nat. Acad. of Sciences, Ameri- ■ Acad. of Arts and Sciences, American Chem. Soc., American Soc. of Biological Chemistry (Pres. 1978-80), Biophysical Soc. (Pres. 1972-73), American Crystallographic Assn.; Guggenheim Fellow 1967-68; Pfizer-Paul Lewis Award 1965; Kaj Linderstrøm-Lang Prize 1978. *Publications:* various articles in scientific journals in the general field of protein and enzyme chemistry. *Leisure interests:* sailing, skiing. *Address:* Department of Molecular Biophysics and Biochemistry, Yale University, P.O. Box 1937 Yale Station, New Haven, Conn. 06520 (Office); 69 Andrews Road, Guildford, Conn. 06437, U.S.A. (Home). *Telephone:* 203-436-2032 (Office); 203-453-3361 (Home).

RICHARDS, Ivor Armstrong, C.H., M.A., LITT.D., F.B.A.; British literary critic; b. 26 Feb. 1893; m. Dorothy Pilley 1926; ed. Clifton and Magdalene Coll., Cambridge; Lecturer in English and Moral Sciences 1922, Fellow, Magdalene Coll. 1926; Visiting Prof., Tsing Hua Univ., Peking 1929-30, Harvard 1931; mem. Cttee., King's Medal for Poetry 1933; Dir. Orthological Inst. (Basic English), China 1936-38; Univ. Lecturer, Harvard 1939-44, Prof. 1944-63, Emer. 1963; Hon. Litt.D. (Harvard), (Durham) 1978; Hon. LL.D. (Cambridge) 1977; Hon. Fellow, Magdalene Coll. Cambridge 1964; Benjamin Franklin Medal (Royal Soc. of Arts) 1978; loines Award for Poetry 1962; Emerson-Thoreau Medal 1970. *Publications:* Foundations of Aesthetics (with C. K. Ogden and James Wood) 1921, The Meaning of Meaning (with C. K. Ogden) 1923, Principles of Literary Criticism 1924, Science and Poetry 1925, Practical Criticism 1929, Mencius on the Mind 1931, Basic Rules of Reason 1933, Coleridge on Imagination 1934, Interpretation in Teaching 1938, How to Read ■ Page 1942, Basic English and its Uses 1943, Nations and Peace 1947, The Portable Coleridge 1950, The Wrath of Achilles 1950, Speculative Instruments 1955, Goodbye Earth and other Poems 1958, The Screens and other Poems 1960, Tomorrow Morning, Faustus! 1962, Why so, Socrates? 1963, abridged version Plato's Republic 1965, So Much Nearer (essays) 1968, Design for Escape, World Education thru' Modern Media 1958, Poetries and Sciences 1970, Internal Colloquies: Collected Poems to 1940 1972, Beyond 1973, Poetries: Their Media and Ends 1974, Complementarities: Uncollected Essays 1976, New and Selected Poems 1978. *Leisure interest:* Alpine Club. *Address:* Magdalene College, Cambridge; Wentworth House, 2 Chesterton Road, Cambridge, England (Home). *Telephone:* 57445 (Home).

RICHARDS, Sir Rex Edward, Kt., F.R.S., D.SC., M.A., D.PHIL.; British university administrator and professor of chemistry; b. 28 Oct. 1922, Colyton, Devon; s. of H. W. and E. N. Richards; m. Eva Edith Vago 1948; two d.; ed. Colyton Grammar School, Devon, St. John's Coll., Oxford; Fellow of Lincoln Coll., Oxford 1947-64; Dr. Lee's Prof. of Chem., Oxford 1964-70; Fellow of Exeter Coll., Oxford 1964-69; Warden Merton Coll., Oxford 1969-; Vice-Chancellor Univ. of Oxford 1977-; Tilden Lecturer 1962; Research Fellow, Harvard Univ. 1955; Hon. Fellow of St. John's Coll. and Lincoln Coll., Oxford 1968-; Assoc. Fellow, Morse Coll., Yale 1974-79; mem. Chem.

Soc. Council 1957, Faraday Soc. Council 1963, Royal Soc. Council 1973-75; Dir. IBM United Kingdom Holdings, IBM (U.K.); Hon.D.Sc. (East Anglia) 1971, (Exeter) 1975, Hon. D.Litt. (Dundee) 1977, (Leicester) 1978; Corday-Morgan Medal of Chemical Soc. 1954, Davy Medal, Royal Soc. 1976, Award in Theoretical Chem. and Spectroscopy, Chemical Soc. 1977. *Publications:* numerous contributions to scientific journals. *Leisure interest:* contemporary art. *Address:* University Offices, Wellington Square, Oxford; 19 Merton Street, Oxford, England (Home). *Telephone:* Oxford 56747.

RICHARDSON, Burton Taylor, M.A.; Canadian journalist; b. 29 Jan. 1906, Selkirk, Manitoba; s. of Rev. Frank Richardson; m. Wanda Davidson 1931; ed. Manitoba, Syracuse (U.S.A.), and London School of Economics; Staff writer of Winnipeg Free Press; correspondent in Ottawa 1940-44, in Washington, D.C. 1945, in London, England 1946; Ed. of Saskatoon Star-Phoenix 1946-48, Winnipeg Citizen 1948; Assoc. Ed. Ottawa Citizen 1949-51; Sec. to Royal Comm. on S. Saskatchewan River 1951-53; Ed. The Telegram (Toronto) 1953-62, Special Corresp. in Washington D.C. 1962-63; Special Asst. to Prime Minister Diefenbaker (later Leader of Opposition) 1963-65; Consultant, Ontario Econ. Council 1966-; Consulting Assoc. P. S. Ross and Partners 1967-75; Hon. mem. Canadian Inst. of Int. Affairs; Fellow, Royal Canadian Geographical Soc.; Chair. Stephen Leacock Centennial Cttee. 1969; Nat. Cttee. for Homage to A. Y. Jackson 1972. *Publication:* Canada and Mr. Diefenbaker 1962. *Leisure interests:* painting, golf, travel. *Address:* Apt. 705, 581 Avenue Road, Toronto, Canada. *Telephone:* 416-481-8959.

RICHARDSON, Elliot Lee, A.B., LL.B.; American lawyer and government official; b. 20 July 1920, Boston, Mass.; s. of Dr. Edward P. Richardson and Clara Shattuck Richardson; m. Anne Francis Hazard 1952; two s. one d.; ed. Harvard Coll. and Harvard Law School; Law Clerk, Supreme Court Justice Felix Frankfurter 1948-49; Asst. Sec. (Legislation), U.S. Dept. of Health, Educ. and Welfare 1957-59, Acting Sec. April-July 1958; U.S. Attorney for Mass. 1959-61; Special Asst. to U.S. Attorney-Gen. 1961; Lieut.-Gov. of Mass. 1965-67; Attorney-Gen. of Mass. 1967-69; U.S. Under-Sec. of State 1969-70; Sec. of Health, Educ. and Welfare 1970-72, of Defense 1972-73; Attorney-Gen. of U.S.A. May-Oct. 1973, resigned; Dir. Study of Operations of State and Local Govt., Woodrow Wilson Int. Center 1974; Amb. to U.K. 1975-76; Sec. of Commerce 1976-77; Amb.-at-large and Special Rep. of U.S. Pres. to Law of the Sea Conf. 1977-; mem. Board of Overseers Harvard Coll. 1966-68; hon. degrees from Springfield Coll., Mass. Coll. of Optometry, Emerson Coll. and Univ. of New Hampshire; Hon. Bencher, Middle Temple 1975. *Publications:* The Creative Balance 1976 and numerous articles. *Address:* 1100 Crest Lane, McLean, Va. 22101, U.S.A. (Home).

RICHARDSON, George Taylor, B.COMM. LL.D.; Canadian business executive; b. 22 Sept. 1924, Winnipeg, Manitoba; s. of late James A. and late Muriel (née Sprague) Richardson; brother of Hon. James Armstrong Richardson (*q.v.*); m. Tannis Maree Thorlakson 1948; two s. two d.; ed. Grosvenor and Ravenscourt Schools, Winnipeg, and Univ. of Manitoba; joined family firm of James Richardson and Sons, Ltd., Winnipeg 1946, Vice-Pres. 1954, Pres. 1966-; Senior Partner, Richardson Securities of Canada 1947-; Chair. Pioneer Grain Co. Ltd., and other subsidiaries of James Richardson and Sons, Ltd.; Gov. Hudson's Bay Company 1970-; Vice-Pres. and mem. Exec. Cttee., Canadian Imperial Bank of Commerce; Dir. Inco Ltd., Hudson's Bay Oil & Gas Co. Ltd.; mem. Winnipeg Commodity Exchange, Chicago Board of Trade and other major N. American commodity exchanges; Hon. LL.D. (Manitoba); Hon. Col. 402 City of Winnipeg Air Reserve Squadron R.C.A.F. *Leisure interests:* hunting and helicopter flying. *Address:* James Richardson and Sons Ltd., Richardson Building, 1 Lombard Place, Winnipeg, Manitoba, R3B 0Y1 (Office); Briarmeade, Lot 197, St. Mary's Road, St. Germain, Manitoba, R0G 2A0, Canada (Home). *Telephone:* 988-5811 (Office); 253-4221 (Home).

RICHARDSON, Gordon Dalyell, O.B.E., M.A., F.L.A.A.; Australian librarian (retd.); b. 23 Nov. 1917, Raymond Terrace, N.S.W.; s. of L. E. D. and Wilga (née Dale) Richardson; m. 1st Yvonne L. Spence 1940 (died 1965), 2nd Ruth Robertson 1966; one s. two d.; ed. Sydney Univ.; Asst., Public Library, New South Wales 1934-40; Infantry Officer, Australian Imperial Force 1940-45; Deputy Principal Librarian, N.S.W. 1954-56; Acting Principal Librarian 1956-57; Mitchell Librarian 1958-73; Principal Librarian and Sec. Library of N.S.W. 1959-73; Exec. mem. Library Board of N.S.W. 1959-73; Principal Archivist, N.S.W. 1961-73; Vice-Pres. Library Assn. of Australia 1964-66, Pres. 1967-68; Chair. Standing Cttee. Australian Advisory Council on Bibliographical Services 1970-72; J. A. Ferguson Memorial Lecture 1975. *Publications:* numerous papers on librarianship and archives. *Leisure interests:* gardening, motoring. *Address:* 16 Eriskay Road, Inverness IV2 3LX, Scotland. *Telephone:* Inverness 221607.

RICHARDSON, Rt. Hon. Gordon William Humphreys, P.C., M.B.E., B.A., LL.B.; British banker; b. 25 Nov. 1915, London; s. of John Robert and Nellie Richardson (née Humphreys); m. Margaret Alison Sheppard 1941; one s. one d.; ed. Nottingham High School, and Gonville and Caius Coll., Cambridge; South Notts. Hussars Yeomanry 1939, Staff Coll., Camberley 1941; called to the Bar, Gray's Inn 1947; mem. Bar Council 1951-55; Industrial and Commercial Finance Corpn. Ltd. 1949-57; Dir. J. Henry Schroder and Co. 1957-62; Chair. J. Henry Schroder Wagg and Co. Ltd. 1962-72; Chair. Schroders Ltd. 1965-73, J. Henry Schroder Banking Corpn. (U.S.A.) 1967-69, Schroders AG (Switzerland) 1967, Schroders Inc. (U.S.A.) 1969-73; Dir. Bank of England 1967-73, Gov. July 1973-; Dir. Rolls-Royce (1971) Ltd. 1971-73, ICI 1972-73; Chair. Cttee. on Turnover Taxation 1963-64; Vice-Chair. Legal and Gen. Assurance Soc. Ltd. 1959-70, Lloyds Bank Ltd. 1962-66; mem. Company Law Amendment Cttee. 1959-62; mem. Court, London Univ. 1962-65; mem. Nat. Econ. Devt. Council 1971-73; Chair. Industrial Devt. Advisory Board 1972-73; Hon. Master of Bench of Gray's Inn 1973–;H.M. Lieut. for City of London 1974-; Hon. D.Sc. (The City Univ.) 1975. *Leisure interests:* reading, walking. *Address:* Bank of England, London, EC2R 8AH, England. *Telephone:* 01-601 4444 (Office).

RICHARDSON, Ian William, F.R.S.A.M.D.; British actor; b. 7 April 1934, Edinburgh; s. of John and Margaret (Drummond) Richardson; m. Maroussia Frank 1961; two s.; ed. Heriot's School, Edinburgh, Royal Scottish Acad. of Music and Drama, Glasgow Univ.; joined Birmingham Repertory Theatre Co. 1958, playing leading parts including Hamlet; joined R.S.C., Stratford and Aldwych 1960-75, parts including: Arragon (Merchant of Venice), Sir Andrew Aguecheek (Twelfth Night) 1960, Malatesti (Duchess of Malfi) 1960, Oberon (A Midsummer Night's Dream) 1961, Tranio (Taming of the Shrew) 1961, The Doctor (The Representative) 1963, Edmund (King Lear) 1964, Antipholus of Ephesus (Comedy of Errors) 1964, Herald and Marat (Marat/Sade) 1964, 1965, Ithamore (The Jew of Malta) 1964, Ford (Merry Wives of Windsor) 1964, 1966, 1969, Antipholus of Syracuse (Comedy of Errors) 1965, Chorus (Henry V) 1965, Vindice (The Revengers Tragedy) 1965, 1969, Coriolanus 1966, Bertram (All's Well That Ends Well) 1966, Malcolm (Macbeth) 1966, Cassius (Julius Caesar) 1968, Pericles 1969, Angelo (Measure for Measure) 1970, Buckingham (Richard III) 1970, Proteus (Two Gentlemen of Verona) 1970, Prospero (The Tempest) 1970, Richard II/Bolingbroke (Richard II) 1973, Berowne (Love's Labour's Lost) 1973, Iachimo (Cymbeline) 1974, Shalimov (Summer Folk) 1974, Ford (Merry Wives of Windsor) 1975, Richard III 1975, Tom Wrench (Trelawny), Sadler's Wells 1971-72, Henry Higgins (My Fair Lady), Broadway 1974; Jack Tanner (Man and Superman), Shaw Festival Theatre, Niagara-on-the Lake, Canada; tours with R.S.C. to Europe, U.S.A., U.S.S.R., Japan; film roles include Capt. Fitzroy (The Darwin Adventure) 1971, Priest (Man of la Mancha) 1972, Marat/Sade; TV appearances include Anthony Beavis (Eyeless in Gaza) 1971, Voyage Round My Father, Canterbury Tales, Danton's Death (BBC) 1977, Sorry (BBC) 1978, Ike—The War Years (ABC TV, U.S.A.) 1978, Tinker, Tailor, Soldier, Spy (BBC) 1979; James Bridie Gold Medal (R.S.A.M.D.); Tony Nomination, New York; Drama Desk Award, New York. *Publication:* Preface to Cymbeline 1976. *Leisure interests:* archaeology, music, books, cinematography, travel. *Address:* 133 Bedford Court Mansions, Bedford Square, London, W.C.1, England. *Telephone:* 01-636 4550.

RICHARDSON, Hon. James Armstrong, P.C., M.P.; Canadian politician; b. 28 March 1922, Winnipeg; s. of late James A. Richardson and late Muriel Sprague; b. of George Taylor Richardson (*q.v.*); m. Shirley A. Rooper 1949; two s. three d.; ed. Queen's Univ., Kingston, Ont.; joined James Richardson and Sons, Ltd., Winnipeg 1945, Chair. and Chief Exec. until 1968; mem. Parl. for Winnipeg South 1968-; Minister without Portfolio July 1968-May 1969; Minister of Supply and Services 1969-72; Minister of Nat. Defence 1972-76 (resgnd); resgnd. from Liberal Party 1976 and became independent 1978. *Address:* 5209 Roblin Boulevard, Winnipeg, Manitoba, Canada (Home). *Telephone:* 832-5433 (Winnipeg).

RICHARDSON, Baron (Life Peer) cr 1979, of Lee in the County of Devon, **John Samuel Richardson,** Bt., M.V.O., M.A., M.D., F.R.C.P., F.R.C.P.(EDIN.), F.R.C.P. (IRELAND); British consultant physician; b. 16 June 1910, Sheffield; s. of Major John Watson Richardson and Elizabeth Blakeney; m. Sybil Trist 1933; two d.; ed. Charterhouse, Trinity Coll., Cambridge and St. Thomas's Hospital Medical School; various appointments at St. Thomas's Hospital and Royal Postgraduate Medical School; with R.A.M.C. during Second World

War; Deputy Dir. to Medical Unit, St. Thomas's Hospital; Consulting Physician at St. Thomas's Hospital; Consultant Physician to Metropolitan Police 1957-, London Transport Board 1964-; Pres. Gen. Medical Council 1973-; Chair. Council for Postgraduate Medical Educ. in England and Wales 1972-; Fellow, Faculty of Community Medicine; mem. Council Royal Coll. of Physicians; fmr. Pres. Royal Soc. of Medicine, Int. Soc. for Internal medicine, British Medical Assn.; Past-Master, Worshipful Soc. of Apothecaries of London; Hon. D.Sc. (Nat. Univ. of Ireland); Hadden Prize and Bristowe Medal, St. Thomas's Hospital 1936, Perkins Fellowship 1939-40; Hon. Bencher, Gray's Inn 1974. *Publications:* The Practice of Medicine 1960, Connective Tissue Disorders 1963, Anticoagulant Prophylaxis and Treatment (jointly) 1965. *Leisure interest:* gardening. *Address:* Flat 9, Weymouth House, 84 Hallam Street, London, W.1; Windcutter, Lee, North Devon, England. *Telephone:* 01-580 0709 (London).

RICHARDSON, Sir Ralph David, Kt., D.LITT. (OXON.); British actor; b. 19 Dec. 1902, Cheltenham; s. of Arthur Richardson and Lydia Russell; m. 1st Muriel Hewitt 1924 (died 1942), 2nd Meriel Forbes-Robertson 1944; one s.; ed. Xavierian Coll., Brighton; first appeared on stage Brighton 1921; acted in Eden End and Cornelius London 1935; Romeo and Juliet U.S.A. 1935-36; Promise, Bees on the Boat Deck and The Amazing Dr. Clitterhouse London 1936-37; Johnson over Jordan London 1938; A Midsummer Night's Dream and Othello Old Vic 1938; served in Fleet Air Arm 1939-44; acted at Old Vic Seasons 1944-45, 1945-46, 1946-47 (also producing Richard II); toured France, Belgium and Germany with Old Vic 1945, and appeared with the Company in New York 1946; acted and produced Royal Circle Wyndham's Theatre, London 1948; acted in The Heiress Haymarket Theatre 1949, Home at Seven Wyndham's Theatre 1950, The Three Sisters Aldwych Theatre 1951; Stratford Memorial Theatre season 1952; The White Carnation Globe Theatre 1953, A Day by The Sea 1954; tour of Australia and New Zealand 1956; Timon of Athens Old Vic, Waltz of the Toreadors New York 1957; Flowering Cherry Haymarket Theatre 1958; The Complaisant Lover Globe Theatre 1959; The Last Joke 1960; School for Scandal Haymarket Theatre 1962, Broadway 1963; Six Characters in Search of [redacted] Author Mayfair Theatre, London 1963; South American tour 1964; Carving a Statue 1964, You Never Can Tell 1966, The Rivals Haymarket Theatre 1967, The Merchant of Venice Haymarket Theatre 1967, What the Butler Saw 1969, Home (London) 1970, Home (New York) 1970, West of Suez (London) 1971, Lloyd George Knew My Father 1972, John Gabriel Borkman 1975, No Man's Land 1975, The Kingfisher 1977, The Cherry Orchard 1978 Alice's Boys 1978, The Double Dealer, Nat. Theatre 1978, The Fruits of Enlightenment, Nat. Theatre 1979; first appeared in films in The Ghoul 1933; since then films include: Things to Come, The Man Who Could Work Miracles, Bulldog Drummond, South Riding, Divorce of Lady X, The Citadel, Four Feathers, Q Planes, Night of the Fire, The Silver Fleet 1942, The Volunteer 1943, School for Secrets 1947, Anna Karenina 1947, The Fallen Idol 1948, The Heiress (Hollywood) 1948, Outcast of the Islands and Home at Seven 1951, The Sound Barrier 1952, The Holly and the Ivy 1952, Richard III 1955, Smiley 1956, The Passionate Stranger 1957, Our Man in Havana 1959, Exodus 1960, Lion of Sparta 1960, Long Day's Journey into Night 1962, Woman of Straw 1963, Dr. Zhivago 1965, Khartoum 1966, The Wrong Box 1966, Battle of Britain 1968, Oh! What a Lovely War 1968, Bed Sitting Room 1968, Midas Run 1968, Looking Glass War 1968, David Copperfield 1969, Eagle in [redacted] Cage 1970, Gingerbread House 1971, Tales from The Crypt 1971, Lady Caroline Lamb 1972, A Doll's House 1973, O Lucky Man 1973, Whoever Slew Auntie Roo 1974, Rollerball 1975, The Man in the Iron Mask 1977, Death on the Nile 1978, No Man's Land 1978. *Leisure interests:* drawing, squash rackets, tennis. *Address:* 1 Chester Terrace, Regent's Park, London, N.W.1, England.

RICHARDSON, Tony; British stage and film producer; b. 5 June 1928, Shipley, Yorks.; s. of Clarence Albert Richardson and Elsie Evans Campion; m. Vanessa Redgrave (*q.v.*) 1962 (divorced 1967); two d.; ed. Wadham Coll., Oxford; Artistic Dir. Royal Court Theatre 1956; Dir. Woodfall Film Productions Ltd. 1958-. *Plays:* produced or directed include: Look Back In Anger, The Chairs, Pericles and Othello (Stratford), The Entertainer, Luther, The Seagull, St. Joan of the Stockyards, Hamlet, Threepenny Opera, I Claudius, Arturo Ui, A Taste of Honey, Lady From the Sea. *Films:* (produced or directed): Look Back In Anger 1958, The Entertainer 1959, Saturday Night and Sunday Morning 1960, A Taste of Honey 1961, The Loneliness of the Long Distance Runner 1962, Tom Jones 1963, The Loved One 1964, Mademoiselle 1965, The Sailor from Gibraltar 1965, Red and Blue 1966, The Charge of the Light Brigade 1967, Laughter in the Dark 1968, Hamlet 1969, Ned Kelly 1969, A Delicate Balance 1973, Dead Cert 1973, Joseph Andrews 1977, Death in Canaan 1978. *Leisure interests:* tennis, travelling. *Address:* 1478 North Kings Road, Los Angeles, Calif. 90069, U.S.A.

RICHES, Edward John, M.A.; New Zealand international civil servant (retd.); b. 30 July 1905, Timaru; s. of Edward and Sarah Riches (née Campbell); m. Phyllis Barr Montgomery 1930; two d.; ed. Univ. of New Zealand and Univ. of Michigan; joined Research Div. of ILO, Geneva 1927, Asst. Econ. Adviser 1941, Acting Chief, Econ. and Statistical Section 1941-46, Econ. Adviser 1946-60, Treas. and Financial Comptroller (Asst. Dir.-Gen.) 1961-70, Special Adviser in charge of planning and construction of new headquarters 1971-75. *Address:* 121 Wheturangi Road, Auckland 5, New Zealand. *Telephone:* 540-864.

RICHES, Sir Eric William, Kt., M.C., M.S., F.R.C.S.; British consulting surgeon and urologist; b. 29 July 1897, Alford, Lincs.; s. of William Riches; m. 1st Anne Brand 1927 (died 1952), two d.; m. 2nd Susan Elizabeth Ann Kitton 1954, one d.; ed. Christ's Hosp. and Middlesex Hosp. (Univ. of London); served World War I, Capt. and Adjutant; Emer. Surgeon and Urologist, Middlesex Hosp.; fmr. Vice-Pres. Royal Coll. of Surgeons, mem. Court of Examiners 1940-46; Hon. Fellow, fmr. Pres. Medical Soc. of London; fmr. Treas. British Journal of Surgery and Chair. Editorial Cttee. British Journal of Urology; Treas. Christ's Hosp., Chair. Council of Almoners 1970-76; Hon. Fellow, Royal Soc. of Medicine 1966; mem. Int. Soc. of Surgery, Int. Soc. of Urology (Pres. 1964), British Assn. of Urological Surgeons (fmr. Pres.), Assn. Française d'Urologie, Biological and Medical Cttee. of Royal Comm. on Population; Hon. mem. Urological Socs. of Australasia, Canada, Sweden, U.S.A., American Assn. of Genito-Urinary Surgeons; Hon. Assoc. mem. French Acad. of Surgery 1961; Hon. Librarian, Royal Soc. of Medicine; Foreign Corresp. [redacted] Soc. of Pelvic Surgeons. *Publications:* Modern Trends in Urology, Series I 1953, Series 2 1960, Series 3 1970, Tumours of the Kidney and Ureter 1964; contributions in Textbook of Urology, British Surgical Practice; articles in journals. *Leisure interests:* golf, music, photography. *Address:* 12 Kensington Court Place, London, W8 5BJ, England. *Telephone:* 01-937 1091.

RICHLER, Mordecai; Canadian writer; b. 1931, Montreal; s. of Moses Isaac Richler and Lily Rosenberg; m. Florence Wood 1960; three s. two d.; ed. Montreal Hebrew Acad., Baron Byng High School and Sir George Williams Univ.; Canada Council Junior Arts Fellowship 1959, 1960; Fellowship in Creative Writing, Guggenheim Foundation, New York 1961, Canada Council, Senior Arts Fellowship 1967, Paris Review Humour Prize 1968, Writer-in-residence, Sir George Williams Univ. 1968-69; Visiting Prof. Carleton Univ., Ottawa 1972-74; Editorial Board, Book-of-the-Month Club, New York 1976; Canadian Gov.-Gen.'s Award for Fiction 1969, 1972, Golden Bear, Berlin Film Festival 1974. *Publications:* (novels) The Acrobats 1954, Son of a Smaller Hero 1955, A Choice of Enemies 1957, The Apprenticeship of Duddy Kravitz 1959, The Incomparable Atuk 1963, Cocksure 1968, St. Urbain's Horseman 1971, Images of Spain 1978; (stories) The Street 1972; (film scripts) No Love for Johnnie, Life at the Top, The Apprenticeship of Duddy Kravitz, etc.; (TV plays) The Trouble with Benny, etc.; (essays) Hunting Tigers under Glass 1969, Shovelling Trouble 1973; Canadian Writing Today (editor) 1970; (for children) Jacob Two-Two Meets the Hooded Fang 1975. *Leisure interest:* poker. *Address:* Appartment 80c, 1321 Sherbrooke Street West, Montreal, Quebec, Canada. *Telephone:* 514-288-2008.

RICHMOND, Sir John Christopher Blake, K.C.M.G.; British diplomatist; b. 7 Sept. 1909, Hitcham; s. of Ernest Tatham and Margaret Muriel Richmond (née Lubbock); m. Diana Margaret Lyle Galbraith 1939; two s. three d.; ed. Lancing Coll., Hertford Coll., Oxford, and Univ. Coll., London; on archaeological expeditions, Beisan, Jericho, Tel El Duweir, Ithaca 1931-36; H.M. Office of Works 1937-39; served in Middle East in Second World War 1939-46; Dept. of Antiquities, Palestine Govt. 1946-47; British Foreign Service, Oriental Sec., Baghdad 1947-51; Foreign Office 1951-53; Counsellor, Amman 1953-55; Consul-Gen. Houston, Texas 1955-58; British Property Comm., Cairo 1959; Political Agent, Kuwait 1959-61; Amb. to Kuwait 1961-63; Amb. to Sudan 1965-66; Lecturer in Modern Near East History, Durham Univ. 1966-74, retd; Supernumerary Fellow, St. Antony's Coll., Oxford 1963-64. *Publication:* Egypt 1798-1952 1977. *Leisure interest:* carpentry and joinery. *Address:* 20 The Avenue, Durham, England.

RICHTER, Burton, PH.D.; American physicist; b. 22 March 1931, Brooklyn, New York; s. of Abraham Richter and Fannie (Pollack); m. Laurose Becker 1960; one s. one d.; ed. Mass. Inst. of Technology; Stanford Univ. 1956-; Research Assoc. in Physics, High Energy Physics Lab., Stanford Univ. 1956-59; mem. group building first

electron storage ring and conducting a colliding beam experiment extending validity of quantum electrodynamics; Asst. Prof., Stanford Univ. 1959-63, Assoc. Prof. 1963-67; worked at Stanford Linear Accelerator Centre 1963-; set up a group which built a high energy electron positron machine (SPEAR); Full Prof., Stanford Univ. 1967-; sabbatical year at European Org. for Nuclear Research (CERN), Geneva 1975-76; E. O. Lawrence Award 1975, Nobel Prize for Physics (jointly with Samuel Ting, *q.v.*) for discovery of the heavy, long-lived "psi" particle 1976. *Publications:* over 100 articles in various scientific journals 1963-79. *Address:* Stanford Linear Accelerator Center, P.O. Box 4349, Stanford University, Stanford, Calif. 94305, U.S.A.

RICHTER, Curt Paul, B.S., PH.D.; American psychologist; b. 20 Feb. 1894, Denver, Colo.; s. of Paul Ernst Richter and Martha Dressler; m. Leslie Prince Bidwell 1936; two s. three d.; ed. Denver, Dresden, Harvard and Johns Hopkins Univs.; Dir. Psychobiology Lab., Phipps Psychiatric Clinic, Johns Hopkins Univ. 1923-; Prof. Emer., Psychobiology, Johns Hopkins Medical School 1957-; Harvey Lecturer 1942-43; Hon. Co-Chair. Int. Comm. for Study of Hunger and Thirst, Jerusalem 1974; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences, Halsted Soc., Century Assn.; Hon. mem. American Neurological Assn.; Hon. D.Sc. (Univ. of Chicago) 1968, Hon. LL.D. (Johns Hopkins Univ.) 1970, Hon. Dr.Sc. (Univ. of Pa.) 1976; Passano Award in Medicine and Biology 1977; Distinguished Citizen of Denver; Warren Soc. Medal; American Psychopathological Soc. Medal. *Publications:* Animal Behavior and Internal Drives 1927, Harvey Lecture 1942-43, Rats, Man, and the Welfare State 1959, Biological Clocks in Medicine and Psychiatry 1965, Discovery of Fire by Man—Its Effects on his 24-hour Clock and Intellectual and Cultural Revolution 1977. *Leisure interests:* tennis, squash, skiing, archaeology. *Address:* Johns Hopkins Hospital, 601 North Broadway, Baltimore, Md. 21205 (Office); 14 Meadow Road, Baltimore, Md. 21212, U.S.A. (Home). *Telephone:* 955-3128 (Office); Dr. 7-9894 (Home).

RICHTER, Hans Werner; German writer; b. 12 Nov. 1908; Prisoner-of-war in U.S.A., Second World War; freelance writer 1946-; Founder, founder mem. Group 1947. *Publications:* Die Geschlagenen 1949, Sie fielen aus Gottes Hand 1951, Spuren im Sand 1953, Du sollst nicht töten 1955, Linus oder Der Verlust der Würde 1958, Almanach der Gruppe 1947 1947-1962 1962, Bestandsaufnahme—Eine deutsche Bilanz 1962, Walther Rathenau—Reden und Schriften 1964, Plaedoyer für eine neue Regierung oder Keine Alternative 1965, Menschen in freundlicher Umgebung 1965, Doda 1966, Blinder Alarm 1970, Rose weiss, Rose rot 1971, Briefe an einem jungen Sozialisten 1974. *Address:* 8 München 60, 7 Rembrandtstrasse, Federal Republic of Germany. *Telephone:* Munich 880486.

RICHTER, Hermann, DR. RER. POL.; German business executive; b. 29 Jan. 1903; ed. Freiburg, Bonn and Cologne Univs.; Chair. Dresdner Bank A.G. 1972-78, Gold-u. Silberscheideanstalt (Degussa), Frankfurt/M., Brown Boveri & Cie. AG, Mannheim, Metalgesellschaft AG, Frankfurt/M., Kempinski Hotelbetrieb AG, Berlin, Kienzle apparate Bag GmbH, Villingen, Henkel KGaA; Vice-Chair. Farbwerke Hoechst AG, Frankfurt/M., Hapag-Lloyd AG, Hamburg-Bremen; Pres. Aktionsgemeinschaft, apparate Bag GmbH, Villingen; Pres. Aktionsgemeinschaft, Deutsches Steinkohlenrevier GmbH, Düsseldorf. *Address:* Fahneburgstrasse 21, Düsseldorf 4000, Federal Republic of Germany. *Telephone:* 62-63-37.

RICHTER, Karl; German conductor, organist and harpsichordist; b. 1926, Plauen, Saxony; ed. Kreuz-Gymnasium, Dresden and Leipzig Conservatory (under Karl Straube and Günther Ramin); Organist, Thomaskirche, Leipzig 1949-51; joined faculty of the Musikhochschule, Munich 1951; organist, Markuskirche, Munich and Dir. Munich Bach Choir 1953; founded Munich Bach Orchestra 1953; now frequently tours Europe, North and South America with the choir and orchestra; has recorded many of Bach's works including St. Matthew and St. John Passions, Mass in B Minor, Magnificat and numerous cantatas and orchestral works. *Address:* c/o Rudolf Vedder Konzertdirektion, Mauerkirchenstrasse 8, 8 Munich 80, Federal Republic of Germany.

RICHTER, Svyatoslav Theofilovich; Soviet pianist; b. 20 March 1915, Zhitomir, Ukraine; ed. Moscow State Conservatoire; won First Prize at the Third U.S.S.R. Competition of Executant Musicians 1945; extensive tours all over the world; Order of Lenin, Hero of Socialist Labour 1975 and other decorations. Repertoire includes works by Bach (cycle of 48 Preludes and Fugues), Beethoven, Schubert, Rachmaninov, Scriabin, Prokofiev, Ravel, Debussy, Mozart, Schumann, Rubinstein, Myaskovsky, Shostakovich, etc. *Address:* c/o Victor Hochhauser Ltd., 4 Holland Park Avenue, London, W.11, England; Moscow State Philharmonic Society, 31 Ulitsa Gorkogo, Moscow, U.S.S.R.

RICHTER PRADA, Gen. Pedro; Peruvian politician and army officer; fmr. Chief of Staff of the Army, fmr. Minister of the Interior; Chair. Joint Chiefs of Staff Jan. 1978-; Prime Minister of Peru Sept. 1978-. *Address:* Oficina del Primer Minister, Lima, Peru.

RICK, Charles Madeira, Jr., PH.D.; American professor and geneticist; b. 30 April 1915, Reading, Pa.; s. of Charles M. Rick and Miriam C. (Yeager) Rick; m. Martha Elizabeth Overholts 1938; one s. one d.; ed. Pennsylvania State and Harvard Univs.; Asst. Plant Breeder, W. Atlee Burpee Co., Lompoc, Calif. 1937-40; Instructor and Asst. Geneticist, Univ. of Calif. at Davis 1940, other Academic ranks, then Prof. and Geneticist 1955-; mem. Genetics Study Section of Nat. Insts. of Health 1958-62; Co-ordinator Tomato Genetics Co-operative 1950-; Visiting Lecturer, N. C. State Univ. 1956, Univ. de São Paulo, Brazil 1965, Faculty Research Lecturer, Univ. of Calif. 1961, Carnegie Visiting Prof., Univ. of Hawaii 1963; Visiting Scientist, Univ. of Puerto Rico 1968; mem. Panel in Genetic Biology, Nat. Science Foundation 1971-72; Nat. Plant Genetics Resources Board, U.S. Dept. of Agric. 1975-; mem. Nat. Acad. of Sciences; Guggenheim Fellow 1948, 1950; Centennial Lecturer Ontario Agricultural Coll., Univ. of Guelph 1974; Vaughan Research Award of American Soc. for Horticultural Science 1946, Campbell Award of A.A.A.S. 1959, M. A. Blake Award, American Soc. Horticultural Science 1974; Merit Award, Botanical Soc. of America 1976. *Publications:* 128 papers in research journals; and 113 research notes in Reports of Tomato Genetics Co-operative. *Leisure interests:* gardening, photography. *Address:* Department of Vegetable Crops, University of California, Davis, Calif. 95616 (Office); 8 Parkside Drive, Davis Calif. 95616, U.S.A. (Home). *Telephone:* 916-752-1737 (Office); 916-756-1387 (Home).

RICKETT, Sir Denis Hubert Fletcher, K.C.M.G., C.B.; former British civil servant and banker; b. 27 July 1907, Sutton, Surrey; s. of Hubert Cecil Rickett and Mabel Fletcher; m. Ruth Pauline Armstrong 1946; two s. one d.; ed. Rugby and Balliol Coll., Oxford; joined staff of Econ. Advisory Council 1931; Offices of the War Cabinet 1939; Private Sec. to Minister of Production 1943-45; Asst. (for work on atomic energy) to Chancellor of the Exchequer 1945-47; transferred to Treasury 1947; Principal Private Sec. to the Prime Minister 1950-51; Minister (economic) to U.S.A. and Head of U.K. Treasury and Supply Del. 1951-54; Third Sec., Treasury 1954-60, Second Sec. 1960-68; Vice-Pres. IBRD 1968-74; Dir. Schroder Int. 1974-, De La Rue Co. 1974-77; Adviser J. Henry Schroder Wagg & Co. 1974-; Fellow of All Souls Coll., Oxford 1929-49. *Leisure interest:* music. *Address:* 30 Warwick Avenue, London, W.9; Broomball, East Anstey, Tiverton, Devon, England. *Telephone:* 01-286 8345; Anstey Mills 324.

RICKOVER, Admiral Hyman George; American naval officer; b. 27 Jan. 1900; m. Eleonore A. Bednowicz 1974; ed. U.S. Naval Acad.; commissioned 1922; Commdr. U.S.S. Finch Minesweeper 1937; Head of Electrical Section, Bureau of Ships, U.S.N. 1939-45; Insp. Gen. 19th Fleet 1945-46; Chief of Naval Reactors Branch, Div. of Reactor Devt., U.S. Atomic Energy Comm., Dir. of Nuclear Power Div., Navy Bureau of Ships 1949-52; currently Dir. U.S. Dept. Energy Div. of Naval Reactors; Deputy Commdr. Naval Sea System Command for Nuclear Propulsion; responsible for the programme for designing and building the world's first atomic ship U.S.S. Nautilus; Adm. 1973; Hon. O.B.E. 1945, Legion of Merit 1946, Distinguished Service Medal 1961, Special Gold Congressional Medal 1959, Enrico Fermi Award 1965. *Publications:* Education and Freedom 1959, Swiss Schools and Ours 1962, American Education, A National Failure 1963, Eminent Americans: Namesakes of the Polaris Submarine Fleet 1972, How the Battleship Maine was Destroyed. *Address:* U.S. Department of Energy, Washington, D.C. 20545, U.S.A.

RIDGE, Anthony Hubert, B.A. (CANTAB.); British international civil servant; b. 5 Oct. 1913, London; s. of Timothy L. and Magdalen Ridge (née Hernig); m. Marjory J. Sage 1938; three s. one d.; ed. Christ's Hospital, Jesus Coll., Cambridge; held posts in Gen. Post Office Personnel 1937-44; Principal Private Sec. Postmaster-Gen. 1947; Deputy Regional Dir. London Postal Region 1950; Asst. Sec. Overseas Postal Services 1951; Dir. Clerical Mechanization and Bldg., GPO 1960; Deputy Dir.-Gen. Int. Bureau, Universal Postal Union 1964-73, Dir.-Gen. 1973-74. *Leisure interests:* music, gardening, walking, "popular" science, transport systems. *Address:* Staple, Postling, Hythe, Kent, England. *Telephone:* 303-862315.

RIDGWAY, General Matthew B., D.S.C. (with O.L.C.), D.S.M. (with 3rd O.L.C.); American army officer; b. 3 March 1895, Fort Monroe, Va.; s. of Thomas Ridgway and Ruth Starbuck Bunker; m. Mary

Princess Anthony 1947; one s. (deceased); ed. U.S. Military Acad.; commissioned Lieut. U.S. Army 1917 and advanced through grades to Lieut.-Gen. 1945, Gen. 1951; technical adviser to Gov.-Gen. of Philippines 1932-33; Asst. Chief of Staff 6th Corps Area 1935-36, Deputy Chief of Staff Second Army 1936; Asst. Chief of Staff Fourth Army 1937-39; accompanied Gen. Marshall to Brazil 1939; War Plans Div., War Dept. Gen. Staff 1939-42; Asst. Div. Commdr. 82nd Infantry Div. 1942, Div. Commdr. 1942; Commdg. Gen. 82nd Airborne Div., Sicily, Italy, Normandy 1942-44; Commdr. 18th Airborne Corps, Belgium, France, Germany 1944-45; Commdr. Luzon Area 1945; Commdr. Mediterranean Theatre of Operations and Deputy Supreme Allied Commdr. Mediterranean Sept. 1945-Jan. 1946; Senior U.S. Army mem. Mil. Staff Cttee., UN 1946-48; Chair. Inter-American Defence Board 1946-48; C.-in-C. Caribbean Commd. 1948-49; Deputy Army Chief of Staff for Admin. 1949-50; Commdr. Eighth Army in Korea 1950-51; Commdr. UN Command in Far East, C.-in-C. Far East and Supreme Commdr. Allied Powers in Japan 1951-52; Supreme Allied Commdr., Europe 1952-53; Chief of Staff U.S. Army 1953-55; Chair. Board of Trustees, Mellon Inst. of Industrial Research 1955-60. *Publications:* Soldier 1956, The Korean War 1967. *Leisure interests:* hunting, fishing, gardening, travel. *Address:* 918 West Waldheim Road, Fox Chapel, Pittsburgh, Pa. 15215, U.S.A. (Home). *Telephone:* 412-781-4833.

RIDING, Laura (Jackson); American writer; b. 16 Jan. 1901, New York City; d. of Nathaniel S. and Sarah Reichenthal; legally adopted surname Riding 1926; m. Schuyler B. Jackson 1941 (died 1968); ed. Cornell Univ.; mem. Fugitives (Southern U.S. poets) in early career; writing activities long centred in poetry; expanded linguistic norm of poems, affecting style of many other poets; lived abroad 1926-39, seeking in varied writing and work with others, including printing, publishing (partner in Seizin Press), to outline ground of moral unity for modern sensibility; renounced poetry and literary affiliations on return to U.S.A., seeing language itself as essential moral meeting-ground; long work with husband of language-study issued in book part finished when he died, completed alone under a Guggenheim fellowship. *Publications:* include The Close Chaplet (first of 9 vols. of poems) 1926, Contemporaries and Snobs 1927, Survey of Modernist Poetry (with Robert Graves) 1927, Anarchism is Not Enough 1928, Experts are Puzzled 1930, Progress of Stories 1935, Essays and Critical Notes, Epilogue 1935-37, A Trojan Ending 1937, Collected Poems 1938, Lives of Wives 1939; edited Epilogue 1935-37, The World and Ourselves 1938; later publs., contrib. to Chelsea 1962, 1964, 1966, 1967, 1972, 1974, Civiltà delle Macchine 1963, Art and Literature 1965, The Private Library 1972, 1973, Denver Quarterly 1974, 1975, 1976, Antaeus 1974, 1975, 1976; Selected Poems: In Five Sets U.K. 1970, U.S.A. 1973; The Telling (expanded book form) U.K. 1972, U.S.A. 1973; contribs. in anthology Revolution of the Word 1975; Rational Meaning: a New Foundation for the Definition of Words (publ. pending); It Has Taken Long, Selected Writings (volume-length, Chelsea) 1977; Collected Poems 1979. *Address:* Box 35, Wabasso, Fla 32970, U.S.A.

RIEGLE, Donald W., Jr., M.B.A.; American politician; b. 4 Feb. 1938; m. Meredith Ann White 1972; m. (divorced); 3rd Lori Hansen; ed. Flint Central High School, Flint Junior Coll., Western Michigan Univ., Univ. of Michigan, Michigan State Univ., Harvard; Senior Pricing Analyst, IBM Corpn. 1961-64; mem. faculty, Mich. State Univ., Boston Univ., Harvard Univ., Univ. of Southern Calif.; mem. U.S. House of Reps 1967-76, mem. House Cttee. on Appropriations 1967-73; changed party affiliation from Republican to Democrat Feb. 1973; mem. Special Task Force of House of Reps. on Energy and Econ. Feb. 1975-; later mem. House Cttee. on Int. Relations, Sub-Cttee. on Int. Political and Mil. Affairs, Sub-Cttee. on Int. Security and Scientific Affairs; U.S. Senator from Mich. Jan. 1977–;Hon. LL.D. (Defiance Coll., Ohio, St. Benedict's Coll., Kan.). *Publication:* O Congress (with T. Armbrister) 1972. *Address:* United States Senate, Capitol Hill, Washington, D.C. 20510, U.S.A.

RIEGNER, Gerhart M.; Swiss administrator; b. 12 Sept. 1911, Berlin; ed. Univs. of Berlin, Freiburg, Heidelberg, Paris, Graduate Inst. of Int. Studies, Geneva, and Acad. for int. Law, The Hague; Legal Sec. World Jewish Congress 1936-39, Dir. Geneva Office 1939-48, mem. World Exec. 1948-60, Dir. of Coordination 1960-65, Sec.-Gen. 1965-; Int. Chair. World Univ. Service 1949-55; Pres. Conf. of non-Govt. Orgs. at UN 1953-55, Conf. of non-Govt Orgs. in Consultative Status with UNESCO 1956-58. *Publications:* articles on legal matters, Jewish affairs and Christian-Jewish relations. *Address:* World Jewish Congress, 1 rue Varembé, Geneva (Office); 25 Avenue Wendt, Geneva, Switzerland (Home).

RIEMSDIJK, H. A. C. van; Netherlands business executive; b. 1911, Aerdenhout; brother-in-law of Frits Philips *q.v.*; joined Philips 1934; Deputy Man. Philips Nederland N.V. 1946, Man. 1949, Gen. Man. 1956; mem. Man. Board N.V. Philips Gloeilampenfabrieken 1963-, Vice-Pres. 1968-71, Pres. 1971-77, Chair. Supervisory Board 1977-. *Address:* N.V. Philips Gloeilampenfabrieken, Eindhoven, Netherlands.

RIENÄCKER, Günther, DR.PHIL.; German chemist; b. 13 May 1904, Bremen; s. of Franz and Frieda (née Kröger) Rienäcker; m. Lotte Christiansen 1931; two s. one d.; ed. Univ. of Munich; Prof. Univ. of Göttingen 1936-42; Prof. and Dir. Inst. of Inorganic Chem., Univ. of Rostock 1942-54; Prof. of Inorganic Chem., Univ. of Berlin 1954-, Dir. 1st Chemical Inst. 1954-62; [redacted] Akad. der Wissenschaften der D.D.R., Dir. of its Inst. for Research into Catalysts 1951-69, Gen. Sec. 1957-68; mem. Exec. Council, Kulturbund der D.D.R., Deutsche Akad. der Naturforscher Leopoldina; Hon. mem. Hungarian Acad. of Sciences; Foreign mem. Acad. of Sciences, U.S.S.R.; mem. Inst. d'Egypte, Cairo; Dr. Rer. Nat. h.c. (Rostock) 1969, (Leuna-Merseburg) 1974; Nat. Prize 1955, many other prizes and awards; Vaterländischer Verdienstorden in Gold; Editor Zeitschrift anorganische allgemeine Chemie. *Leisure interests:* chemistry, music. *Address:* DDR-111 Berlin-Niederschönhausen, Tschaikowskistrasse 40-42, German Democratic Republic. *Telephone:* 4829741.

RIESMAN, David, A.B., LL.B., LL.D., D.LIT., ED.D.; American social scientist; b. 1909, Philadelphia, Pa.; s. of Dr. David and Eleanor F. Riesman; m. Evelyn Hastings Thompson 1936; two s. two d.; ed. Harvard Univ. and Harvard Law School; Law clerk to Mr. Justice Brandeis, Supreme Court 1935-36; Practised law 1936-37; Prof. of Law, Buffalo Univ. 1937-41; Deputy Asst. Dist. Attorney, N.Y. County 1942-43; Asst. Treas. Sperry Gyroscope Co. 1943-46; Prof. Social Sciences, Chicago Univ. 1946-58; Prof. Social Sciences, Harvard 1958-; mem. Carnegie Comm. on Future of Higher Educ. 1967–;Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford 1968-69; mem. Inst. for Advanced Study, Princeton 1971-72; on board of editors, Sociology of Education, Technology and Culture, Universities Quarterly; Nat. Sponsor, Cttee. for a Sane Nuclear Policy; Dir. Nat. Movement for Student Vote; numerous hon. degrees. *Publications:* The Lonely Crowd 1950, Faces in the Crowd 1952, Thorstein Veblen: A Critical Interpretation 1953, Individualism Reconsidered 1954, Constraint and Variety in American Education 1956, Abundance for what? 1964, The Academic Revolution (with Christopher Jencks) 1968, Academic Values and Mass Education (with Joseph Gusfield and Zelda Gamson) 1970, Education and Politics at Harvard (with Seymour M. Lipset) 1975, The Perpetual Dream—Experiment and Reform in the American College (with G. Grant) 1978. *Address:* Department of Social Relations, William James Hall 280, Harvard University, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-495-3822.

RIETZ, Hans; German politician; b. 26 April 1914, Könnern, Kreis Bernburg; ed. secondary school, Bitterfeld; former locksmith; mem. Dem. Peasants' Party (DBD) 1949-, Deputy Chair. 1967-; mem. G.D.R. Volkskammer 1954-; Vice-Chair. Council of State 1960-76; mem. Presidium Volkskammer 1976-; Vaterländischer Verdienstorden in Gold (twice) and other decorations. *Address:* Volkskammer, Berlin, German Democratic Republic.

RIFA'I, Abdul Monem; Jordanian diplomatist; b. 1917, Tyre, Lebanon; m.; ed. American Univ. of Beirut; in service of King Abdullah 1938; Chief Sec. of Govt. and Chief Censor 1940; Asst. Chief of Royal Court 1941-42; Consul-Gen. in Cairo, Lebanon and Syria 1943-44; del. to Treaty Conf. with Great Britain 1946; Counsellor in Washington, and del. to UN 1949; Minister to Iran and Pakistan 1949; Amb. to U.S.A. 1953-57, to Lebanon 1957-58, to Great Britain 1958; Dir. of Radio, Press and Tourism 1958-59; Rep. to UN 1959-64; Amb. to United Arab Republic 1966-67 (withdrawn Feb. 1967); Minister of Foreign Affairs 1967-69; Prime Minister March-Aug. 1969, June-Sept. 1970; Deputy Prime Minister and Minister of Foreign Affairs 1969-70; Personal Rep. to H.M. King Hussein 1972-73; Perm. Rep. to Arab League 1973; Amb. to Egypt Sept.-Dec. 1973; Special Adviser to H.M. King Hussein on Int. Affairs 1973-74; mem. Senate 1974-; numerous decorations. *Address:* The Senate, Amman, Jordan.

RIFAI, Rashid M. S. al-, M.S.ENG., PH.D., M.I.E.E.; Iraqi electrical engineer; b. 1 May 1929; ed. American Univ. of Beirut, Lebanon, Univ. of Bristol, England, Purdue and Rice Univs., U.S.A.; Engineer, Directorate Gen. of Posts, Telephones and Telegraph 1954-62; Chief Engineer, Gen. Co. for Electrical Industries 1968; Minister for Presidential Affairs July 1968, of Oil and Minerals 1968-69; Minister of State 1969-71; Minister of Planning 1971-72, of Communications 1972-75, of Work and Housing 1974-75; Amb. to Belgium 1976-, to Luxembourg 1977-; Perm. Rep. to EEC 1977-. *Address:* Permanent Mission of Iraq to the European Communities, Avenue de la Floride 131, 1080 Brussels, Belgium.

RIFA'I, Zaid al-, M.A.; Jordanian diplomatist; b. 27 Nov. 1936, Amman; s. of Samir Pasha al-Rifa'i and Alia Shukry; m. Muna Talhouni 1965; one s. one d.; ed. Victoria Coll., Cairo, and Harvard and Columbia Univs.; joined diplomatic service 1957; served at embassies in Cairo, Beirut and London and at the Perm. Mission of Jordan at UN; Chief of Royal Protocol 1965; Sec.-Gen. of Royal Court and Private Sec. to H.M. King Hussein 1967; Chief of Royal Court 1969; Amb. to U.K. 1970-72; Political Adviser to King Hussein March 1972; Prime Minister and Minister for Foreign Affairs and Defence 1973-76. *Leisure interests:* music, reading, bridge, water-skiing, sailing, tennis. *Address:* c/o Prime Minister's Office, Amman, Jordan.

RIFBJERG, Klaus; Danish author; b. 15 Dec. 1931, Copenhagen; s. of Thorvald Rifbjerg and Lilly Nielsen; m. Inge Merete Gerner 1955; one s. two d.; ed. Princeton Univ., U.S.A., and Univ. of Copenhagen; Literary critic, Information 1955-57, Politiken 1959- (Copenhagen daily newspapers); Aarestrup Medal 1964, Danish Critics' Award 1965, Grant of Honour from the Danish Dramatists 1966, Danish Acad. Award 1966, Golden Laurels 1967, Soren Gyldendal Award 1969, Nordic Council Award 1970, Grant of Honour from the Danish Writers' Guild 1973. *Publications:* novels: Den Kroniske Uskyld 1958, Operaelsken 1966, Arkivet 1967, Lonni Og Karl 1968, Anna (Jeg) Anna 1970, Marts 1970 1970, Leif den Lykkelige JR. 1971, Til Spanien 1971, Lena Jorgensen, Klintevej 4, 2650 Hvidovre 1971, Brevet til Gerda 1972, R.R. 1972, Spinatfuglene 1973, Dilettanterne 1973, Du skal ikke vaere ked af det Amalia 1974, En hugorm i solen 1974, Vejen ad hvilken 1975, Tak for turen 1975, Kiks 1976, Tango 1978, Dobbeltgoenger 1978, Joker 1979; short stories: Og Andre Historier 1964, Rejsende 1969, Den Syende Jomfru 1972, Sommer 1974; non-fiction: I Medgang Og Modgang 1970; plays: Gris Pa Gaflen 1962, Hva's Skal Vi Lave 1963, Udviklinger 1965, Hvad en Mand Har Brug For 1966, Voks 1968, Ar 1970, Narrene 1971, Svaret Blaeser i Vinden 1971, Kiks 1976, Det Korte af det lange 1976, Twist 1976, Et bortvendt ansigt 1977, Drengene 1977, Dered majestæt! 1977; several vols. of poetry; twenty radio plays. *Address:* c/o Gyldendal Publishers, 3 Klareboderne, 1001 Copenhagen; Toldbodgade 73, DK-1253, Copenhagen K, Denmark (Home).

RIGBY, Sir Ivo Charles Clayton, Kt.; British judge; b. 2 June 1911; s. of the late James and Elisabeth Rigby; m. 1st Agnes Bothway 1937, 2nd Kathleen Turquand Young (née Jones) 1954; no c.; ed. Magdalen Coll., Oxford and Inner Temple; called to the Bar 1932; Magistrate, Gambia 1935-38; Chief Magistrate, Crown Counsel and Pres. of Dist. Court, Palestine 1938-48; Asst. Judge, Nyasaland 1948-54; Pres. of Sessions Court, Malaya 1954-55; Puisne Judge, Malaya 1956-61; Senior Puisne Judge, Hong Kong 1961-70, Chief Justice of Hong Kong and Brunei 1970-73, Pres. Court of Appeal, Brunei 1973-; Recorder of the Crown Court 1975, Metropolitan Stipendiary Magistrate 1976. *Publication:* The Law Reports of Nyasaland 1934-52. *Leisure interests:* squash, cricket, bridge. *Address:* 8 More's Garden, Cheyne Walk, London, SW3 5BB, England. *Telephone:* 01-352 0120.

RIGG, Enid Diana Elizabeth; British actress; b. 20 July 1938, Doncaster, Yorks.; d. of Louis and Beryl (Helliwell) Rigg; m. Menahem Gueffen 1973 (divorced 1976); one d.; ed. Fulneck Girls' School, Pudsey, Yorks, R.A.D.A.; Assoc. Artist of R.S.C., Aldwych 1959-64, where roles included: Andromache (Troilus and Cressida), 2nd Ondine, Violanta and Princess Bertha (Oxdine), Philippe Trincant (The Devils), Gwendolen (Becket), Bianca (The Taming of the Shrew), Madame de Tourvel (The Art of Seduction), Helena (A Midsummer Night's Dream), Adriana (Comedy of Errors), Cordelia (King Lear), Nurse Monika Stettler (The Physicists), Lady Macduff (Macbeth), Viola (Twelfth Night); toured Eastern Europe, U.S.S.R., U.S.A. in King Lear, Comedy of Errors 1964; mem. Nat. Theatre 1972, roles included: Dottie Moore (Jumpers) 1972, Hippolita ('Tis Pity She's A Whore) 1972, Lady Macbeth (Macbeth) 1972, Célimène (The Misanthrope), Washington and New York 1973, 1975, The Governor's Wife (Phaedra Britannica) 1975, rejoined Nat. Theatre at the Lyttelton to play Ilona in The Guards- [illegible] 1978; other stage appearances include: Heloise (Abelard and Heloise), London 1970, Los Angeles, New York 1971, Eliza Doolittle (Pygmalion) London 1974; Ruth Carson (Night and Day) 1978; TV appearances include Sentimental Agent 1963, A Comedy of Errors 1964, Emma Peel (The Avengers) 1965-67, The Hothouse 1964, Women Beware Women 1965, Married Alive 1970, Diana (U.S. series) 1973, In This House of Brede 1975, Three Piece Suite 1977, Klytamnestra in The Oresteia 1979; films include: A Midsummer Night's Dream 1969, The Assassination Bureau 1969, On Her Majesty's Secret Service 1969, Julius Caesar 1970. The Hospital 1971, Theatre of Blood 1973, A Little Night Music 1977; Plays and Players Award for Best Actress (Phaedra Britannica, Night and Day 1978). *Leisure interests:* reading, writing, cooking, travel.

RIGGS, Lorrin Andrews, A.B., M.A., PH.D.; American psychologist; b. 11 June 1912, Harput, Turkey; s. of Ernest Wilson and Alice (Shepard) Riggs; m. Doris Robinson 1937; two s.; ed. Dartmouth Coll. and Clark Univ.; N.R.C. Fellow, Biological Sciences, Univ. of Pa. 1936-37; Instructor Univ. of Vermont 1937-38, 1939-41; with Brown Univ. 1938-39, 1941-, Research Assoc., Research Psychologist Nat. Defence Research Cttee., Asst. Prof., Assoc. Prof. 1938-51, Prof. of Psychology 1951-; L. Herbert Ballou Foundation Prof. of Psychology 1960-68, Edgar J. Marston Univ. Prof. of Psychology 1968-77, Prof. Emer. 1977-; Guggenheim Fellow, Univ. of Cambridge 1971-72; Assoc. Editor Journal of Optical Soc. of America, Experimental Psychology; mem. American Psychological Assn. (Div. Pres. 1962-63), Eastern Psychological Assn. (Pres. 1975-76), A.A.A.S. (Chair. and Vice-Pres. Section 1 1964), Optical Soc. of America, Nat. Acad. of Sciences, American Physiological Soc., Int. Brain Research Org., Soc. for Neuroscience, Int. Soc. of Clinical Electroretinography, Soc. of Experimental Psychologists, American Acad. of Arts and Sciences, Assn. for Research in Vision and Ophthalmology (Pres. 1977); Howard Crosby Warren Medal, Soc. of Experimental Psychologists 1957, Jonas S. Friedenwald Award, Assn. for Research in Ophthalmology 1966, Edgar D. Tillyer Award, Optical Soc. of America 1969, Charles F. Prentice Award, American Acad. of Optometry 1973, Distinguished Scientific Contribution Award, American Psychological Assn. 1974, Kenneth Craik Award, Cambridge Univ. 1979. *Publications:* Numerous scientific articles on vision and physiological psychology. *Address:* Hunter Laboratory of Psychology, Brown University, Providence, R.I. 02912, U.S.A. *Telephone:* 401-863-2512.

RIIS, Povl, M.D.; Danish physician and professor of medicine; b. 28 Dec. 1925, Copenhagen; s. of Lars Otto and Eva Elisabeth (née Erdmann) Riis; m. Else Harne 1954; one s. three d.; ed. Univ. of Copenhagen; Specialist in internal medicine 1960, gastroenterology 1963; Head of Medical Dept. B, Gentofte Univ. Hosp. 1963-76; Prof. of Internal Medicine, Univ. of Copenhagen 1974-; Head of Gastroenterological Dept. C, Herlev Univ. Hosp. 1976-; Asst. Ed. Journal of the Danish Medical Assn. 1957-67, Chief Ed. 1967-; Ed. Bibliothek for Laeger 1965-, Danish Medical Bulletin 1968-; mem. Board, Danish Soc. for Internal Medicine 1962-67, Danish Anti-Cancer League 1970-75, Danish Soc. for Theoretical and Applied Therapy 1972-77; mem. Danish Medical Research Council 1968-74, Chair. 1972-74; mem. Danish Science Advisory Board 1972-74, Co-Chair. 1974; mem. Nordic Scientific Co-ordination Cttee. for Medicine 1968-72, Chair. 1970-72; Chair. Nordic Medical Publs Cttee. 1970-72; Vice-Pres. European Science Foundation (ESF) 1974-77, mem. Exec. Council 1977-; Chair. ESF Cttee. on Genetic Manipulation 1975-77, Chair. ESF Liaison Cttee. on General Manipulation 1977-; mem. Council for Int. Org. of Medical Sciences Advisory Cttee. 1977; mem. Trustees Foundation of 1870 1976, Trier-Hausen Foundation 1977; Alfred Benzon Prize, August Krogh Prize 1974, Christensen-Ceson Prize 1976. *Publications:* Contributor: Handbook of Scientific Methodology (in Danish) 1971, World Medical Assn. Helsinki Declaration 1975-, We Shall All Die—but how? (in Danish) 1977; Author: Handbook of Internal Medicine (in Danish) 1968; many articles in medical journals. *Leisure interests:* tennis, music, mountain walking. *Address:* Herlev University Hospital, 2730 Herlev (Office); Nerievej 7, 2900 Hellerup, Denmark (Home). *Telephone:* 02-942733 (Office); 01-HE 9688 (Home).

RIKER, Albert Joyce, PH.D.; American plant pathologist; b. 1894, Wheeling, W. Va.; ed. Oberlin Coll., Univ. of Wisconsin and in Paris and London; taught Botany, Univ. of Cincinnati; Bacteriologist, Cincinnati Base Hospital during First World War; joined Staff of Univ. of Wis. 1942, Prof. 1931-64, Prof. Emer. 1964-; Fellow, A.A.A.S., American Acad. of Microbiology; mem. numerous learned socs. including Nat. Acad. of Sciences (Chair. Botany Section 1959-62), American Assn. for Cancer Research, American Phytopathological Soc., Botanical Soc. of America, Indian Phytopathological Soc.; awarded American Men of Science Star 1944 and Eighth Int. Botanical Congress Medal, Paris 1954. *Publications:* Introduction to Methods of Research in Plant Pathology; and more than 300 technical papers (in co-operation with students and colleagues). *Address:* 2760 East Eighth Street, Tucson, Ariz. 85716, U.S.A. *Telephone:* 325-6235.

RIKLIS, Meshulam; American (b. Turkish) business executive; b. 1923; ed. High School, Israel, Univ. of Mexico and Ohio State Univ.; Co-Dir. Youth Activities and Mil. Training, Hertzlia High School, Tel-Aviv 1942; went to U.S. 1947, naturalized 1955; Teacher of Hebrew, Talmud Torah School, Minneapolis 1951; Research Dept., Piper, Jaffray and Hopwood 1951-53, Sales Rep. 1953-56; Chair., Chief Exec. Officer Rapid Electrotype Co., American Colortype Co. 1956-57; Pres. Rapid-American Corpn. 1957-58, 1976-, Chair. 1958-; Chair. McCrory Corpn., Glen Alden Corpn. 1965-.

Address: Rapid American Corporation, 711 Fifth Avenue, New York, N.Y. 10022 (Office); 7 Shelter Bay Drive, Kings Point, Long Island, N.Y., U.S.A. (Home).

RILEY, Bridget, C.B.E., A.R.C.A.; British artist; b. 24 April 1931, London; d. of John Fisher Riley and Bessie Louise (née Gladstone); ed. Cheltenham Ladies' Coll., Goldsmiths Coll. of Art and Royal Coll. of Art, London; first one-man exhbn. in London at Gallery One 1962, followed by others in England, America, Switzerland, Australia and Japan; has exhibited in group shows in Australia, Italy, France, Holland, Germany, Israel, America, Japan and Argentina; represented Great Britain at Biennale des Jeunes, Paris 1965, at Venice Biennale 1968; retrospective exhbn. Europe and U.K. 1970-72; paintings, drawings, and prints in public collections in England, Ireland, Switzerland, Netherlands, Austria, America, Australia and New Zealand; AICA Critics Prize 1963; Prize in Open Section, John Moores Liverpool Exhbn. 1963; Peter Stuyvesant Foundation Travel Bursary to U.S.A. 1964; Major Painting Prize, Venice Biennale 1968; Prize at Tokyo Print Biennale 1971; founder mem. and fmr. Dir. S.P.A.C.E. Ltd.; mem. Royal Soc.; Hon. Dr. of Letters (Manchester Univ.) 1976. *Address:* 7 Royal Crescent, London, W.11, England. *Telephone:* 01-603 4469.

RILEY, Richard A.; American business executive; b. 27 March 1916, Fall River, Mass.; m. Helen Fox 1941; one s. one d.; ed. Providence Coll., R.I.; joined Firestone Tire and Rubber Co. 1939; Pres. Firestone Rubber and Latex Products Co. 1960-65, Synthetic Rubber and Latex Co. 1965-68; Pres. Firestone Steel Products Co. 1968; Vice-Pres. Firestone Tire and Rubber Co. (merged with Borg-Warner Corpn. 1978) 1968, Dir. 1970-, Exec. Vice-Pres. 1971, Pres. 1972-76, Chair. 1976-, Chief Exec. Officer 1973-; mem. Board of Dirs. Rubber Mfrs. Assn.; Hon. D.Sc. (Bradford Durfee Coll. of Technology) 1961; Hon. D.B.A. (Providence Coll.) 1969. *Address:* Firestone Tire and Rubber Co., 1200 Firestone Parkway, Akron, Ohio 44317, U.S.A.

RIMALT, Elimelech, PH.D.; Israeli politician; b. 1 Nov. 1907, Bochnia, Poland; s. of Samuel and Cilli Rimalt; m. Wilmer Gelmann 1933; two s.; ed. Hebrew High School, Cracow, Poland, Univ. of Vienna and Rabbinical Seminary, Vienna, Austria; emigrated to Palestine from Austria 1939, and served as Head of Schools in Ramat Gan, Israel and Dir. of Educ. Dept. of Ramat Gan Municipality; Deputy Mayor of Ramat Gan 1955-59; Founder Union of Gen. Zionist (now Liberal) Workers; mem. Knesset; Chair. Liberal Party in fifth Knesset; Co-Chair. Herut-Liberal bloc (Gahal), Knesset 1965-68; Minister of Posts, Israel Govt. 1969-71; Past Chair. or mem. of numerous Parl. Cttees., fmr. Chair. Liberal Party, Co-Chair. Likud block; Chair. Board of Dirs, Kameri Theater, Tel Aviv. *Publications:* Scientific works in the field of Semitic languages. *Leisure interests:* history, philosophy, research on Aramaic Dialects. *Address:* Ramat-Gan 19, Haam Hatsarfatt Boulevard, Tel Aviv, Israel. *Telephone:* 03-790507.

RIMINGTON, Claude, M.A., PH.D., D.SC., F.R.S.; British university professor; b. 17 Nov. 1902, London; s. of George Garthwaite Rimington and Hilda Klyne; m. Soffi Andersen 1929; one d.; ed. Cambridge and London Univs.; Biochemist, Woollen Industries' Research Assn., Leeds 1928-31; Empire Marketing Board Research Fellow at Onderstepoort Veterinary Research Lab., Pretoria, South Africa 1931-36; Scientific Research Officer, Div. of Veterinary Services, Govt. of Union of S. Africa 1936-37; Biochemist on staff of Nat. Inst. for Medical Research of Medical Research Council of Great Britain 1937-45; Prof. of Chemical Pathology, Univ. of London, and Head of Dept. of Chemical Pathology, Univ. Coll. Hospital Medical School 1945-67, Emer. Prof. Univ. of London 1967-; Hon. F.R.C.P.(E). *Leisure interests:* literature, languages. *Address:* Askerøy, Per Vestra Sandøy 4915, Norway.

RINCHIN, Lodongiyn; Mongolian agronomist and politician; b. 25 July 1929, Gobi Altai; ed. Agricultural Inst., U.S.S.R.; Agronomist, Chief of Dept., Chief Agronomist Ministry of Livestock Husbandry 1955-60; Deputy Minister, First Deputy Minister of Agric. 1960-67; Chair Supreme Council, Agricultural Co-operative Board 1967-70; Minister of Foreign Affairs 1970-76, of Agric. Aug. 1976-; mem. Cen. Cttee. Mongolian People's Revolutionary Party 1961-; Deputy to the Great People's Hural; various state orders and medals. *Address:* Ministry of Agriculture, Ulan Bator, Mongolia.

RING, Sir Lindsay Roberts, G.B.E., J.P.; British executive; b. 1 May 1914, London; s. of George Arthur Ring and Helen Rhoda Mason Ring (née Stedman); m. Hazel Doris Nichols 1940; two s. one d.; ed. Dulwich Coll. and Mecklenburg, Germany; served Europe and Middle East, Major, Royal Army Service Corps 1939-45; Underwriting mem. Lloyd's 1964; Chair. Ring and Brymer (Birchs) Ltd.; Chair. Hotel and Catering Trades Benevolent Assn. 1962-71; mem. Board of Verge of Royal Palaces; Gov. Farrington's School; Hon. Treas. Church Army Housing; mem. Court of Assts., Armourers' and Braziers' Co., Master 1972; Common Councilman for Ward of Bishopsgate, City of London 1964-68, Alderman for Ward of Vintry 1968; Sheriff, City of London 1967-68; Lord Mayor of London 1975-76; mem. Gaming Board for Great Britain 1977, Northern Ireland Devt. Agency 1977; Hon. D.Sc. 1976, Hon. D.Litt. 1976; Freeman, City of London 1935; Hon. Freeman of Coleraine (Londonderry); Hon. Col. 151st Transport Regt. Greater London Royal Corps of Transport (V); Fellow, Hotel and Catering Inst.; Commdr. Légion d'honneur, Order Rio Branca (Brazil), Diego de Losada (Venezuela); K.St.J. *Leisure interest:* gardening. *Address:* Chalvedune, Wilderness Road, Chislehurst, Kent, BR7 5EY, England. *Telephone:* 01-467 3199.

RINGADOO, Sir Veerasamy, Kt., BAR.-AT-LAW ; Mauritius politician; b. 1920, Port Louis; m. Lydie Vadamootoo 1954; one s. one d.; ed. Port Louis Grammar School and London School of Economics, England; called to the Bar 1949; elected Municipal Councillor 1956; elected mem. Legis. Council for Moka-Flacq 1951-67; Minister for Labour and Social Security 1959-64, for Educ. 1964-67, of Agric. and Natural Resources 1967-68, of Finance June 1968-; attended London Constitutional Conf. 1965; First mem., Legis. Assembly (M.L.A.) for Quartier Militaire and Moka 1967- (Lab); Gov. IMF, Chair. African Devt. Bank and African Devt. Fund 1977-78; Officer, Ordre National Malgache; Hon.LL.D. (Mauritius). *Address:* Ministry of Finance, Port Louis; corner of Farquhar and Sir Celicourt Antelme Streets, Quatre-Bornes, Mauritius (Home).

RINKEL, Andreas; Netherlands ecclesiastic; b. 10 Jan 1889; ed. Old Catholic Seminary, Amersfoort; ordained Priest 1914; Vicar Enkhuizen 1914-20, Amersfoort; 1920-37; Prof. of Theology, Ethics and Liturgy 1920-48; Canon of the Metropolitan Chapter of Utrecht 1926-70, Hon. Canon 1970-; Archbishop of Utrecht 1937-70; Editor of Geloof en Leven 1915-20, of De Oud-Katholiek 1920-36, of Internationale Kirchliche Zeitschrift 1920-37; Hon. D.Th.(twice). *Publications:* Handboek voor geloofs—en Zedeleer 1930, Die Heilige Eucharistie; Sermons: Van heerlijkheid tot heerlijkheid 1923, Uit den rijkdom rijner genade (3 vols.) 1925, De moelijke weg 1930, De gave Gods 1930; Essays: Psalter (2 vols.) 1937, Dogmatic Lectures 1956; Composer of liturgical church music, masses and hymns. *Address:* Emmalaan 8, Utrecht, Netherlands. *Telephone:* 030-516989.

RINSER, Luise; German author; b. 30 April 1911, Pitzling/Oberbayern; d. of Joseph and Luise Rinser; m. 1st Horst-Guenther Schnell 1939 (deceased), 2nd Carl Orff (*q.v.*); two s.; School teacher 1935-39; works banned 1941; imprisoned 1944-45; after World War II became literary critic of Neue Zeitung, Munich; now free-lance writer; mem. Akad. der Künste, PEN Centre of Fed. Repub. of Germany. *Publications:* novels: Die gläsernen Ringe 1940, Mitte des Lebens 1950, Daniela 1953, Abenteuer der Tugend 1957, Tobias 1968; Der schwarze Esel 1974; short stories: Ein Bündel weisser Narzissen 1956; essays: Schwerpunkt, Über die Hoffnung, Vom Sinn der Traurigkeit, Unterentwickeltes Land Frau, Wie, wenn wir ärmer würden 1974, Dem Tode geweiht 1974; letters: Hochzeit der Widersprüche 1973; diaries: Gefängnis/Tagebuch 1946, Baustelle 1970, Grenz-Übergänge 1972; play: Philemon; travel: Süd Korea 1976; children's: Bruder Feuer 1975, Wenn die Wale kämpfen 1976. *Leisure interests:* politics, theology. *Address:* Rocca di Papa, Rome, Italy. *telephone:* 94-90-87.

RIOPELLE, Jean-Paul; Canadian painter; b. 1923, Canada. settled in Paris 1947; participated in L'Imaginaire exhbn., Galerie du Luxembourg 1947, Surrealist exhbn., Galerie Maeght 1947; one-man shows, Paris 1949, New York 1954, London 1956; chosen by J. J. Sweeney for Younger European Painters Exhbn., Guggenheim Museum, New York 1953-54; works in the Tate Gallery and Nat. Gallery of Canada and in private collections; Canada Council Medal 1966. *Address:* c/o Galerie Maeght, rue du Teheran, 75008 Paris, France; c/o Arthur Tooth & Sons Ltd., 31 Bruton Street, London, W.1, England.

RÍOS, Juan; Peruvian poet, dramatist and dramatic critic; b. 28 Sept. 1914, Barranco, Lima; s. of Rogelio Ríos and Victoria Rey (de Ríos); m. Rosa Saco 1946; one d.; National Prize for Playwriting 1946, 1950, 1952, 1954, 1960; Nat. Poetry Prize 1948, 1953; Writers' Fellowship, UNESCO, Europe and Egypt 1960-61; writer for Oiga; mem. Academia Peruana de la Lengua Correspondiente a la Española. *Publications:* Canción de Siempre 1941, Malstrom 1941, La Pintura Contemporánea en el Perú 1946, Teatro (I) 1961, Ayar Manko 1963. *Address:* Dos de Mayo 657, Miraflores, Lima 18, Peru. *Telephone:* 255218 (Lima).

RIPLEY, S. Dillon, B.A., PH.D.; American museum director and zoologist; b. 20 Sept. 1913, New York; s. of Louis Arthur Ripley and Constance Ballie (Rose); m. Mary Moncrieffe Livingston 1949; three d.; ed. St. Paul's School, Concord, N.H., and Yale and Harvard Univs.; Zoological Collector, Acad. of Natural Science, Philadelphia 1936-39; Voluntary Asst. American Museum of Natural History, New York 1939-40; Asst. Harvard Univ. 1941-42; Asst. Curator Birds, Smithsonian Inst. 1942, Sec. 1964-; Lecturer Yale Univ. 1946-52, Asst. Prof. 1949-55, Assoc. Prof. Zoology 1955-61, Prof. of Biology 1961-64; Guggenheim Foundation Fellow 1954; Fellow or mem. of numerous scientific socs. in U.S. and abroad, including Nat. Acad. of Sciences and British Ornithologists' Union; Hon.M.A. (Yale Univ.), Hon. D.H.L. (Marlboro Coll.,Williams Coll.), Hon. D.Sc. (George Washington Univ. Catholic Univ., Maryland Univ., Cambridge Univ., Trinity Coll. and Brown Univ.), Hon. LL.D. (Dickinson Coll., Hofstra Univ., Yale Univ.), Hon. D.Eng. (Stevens Inst. Tech.), New York Zoological Soc. Medal 1966, Royal Zoological Soc. of Antwerp Medal 1970, Order of White Elephant and Freedom Medal (Thailand), Officier, Ordre Français des Arts et Lettres (France), Commdr. Dannebrog (Denmark), Golden Ark (Netherlands, Grand Cross del Mérito Civil (Spain), Holland Soc. Medal 1977, Commdr. Order of Merit (Poland). *Publications:* The Trail of the Money Bird 1942, Search for the Spiny Babbler 1952, A Paddling of Ducks 1957, A Synopsis of the Birds of India and Pakistan 1961, Ornithological Books in the Yale Library (Co-Author) 1961, Land and Wildlife, Tropical Asia 1964, 1974, Handbook of the Birds of India and Pakistan (Co-author), Vol. I 1968, Vols. II and III 1969, Vol. IV 1970, Vol. V 1972, Vol VI 1971, Vol. VII 1972, Vol. VIII, Vol. IX 1973, Vol. X 1974, The Sacred Grove/Essays on Museums 1969. The Paradox of the Human Condition 1975, Rails of the World 1977; contributions to numerous journals. *Leisure interests:* travel, observing and collecting waterfowl, especially watching ducks. *Address:* Smithsonian Institution, Washington, D.C. 20560 (Office); 2324 Massachusetts Avenue, N.W., Washington, D.C. 20008; Summer: Paddling Ponds, Litchfield, Conn. 06759, U.S.A. (Homes). *Telephone:* 202-381-5005 (Office); 202-232-3131 (Home); 203-JO7-8208 (Summer).

RIPPON, Angela; British journalist, producer and newsreader; b. 12 Oct. 1944, Plymouth, Devon; d. of John and Edna Rippon; m. Christopher Dare 1967; ed. Plymouth Grammar School; Editor, Producer and Presenter, Westward Television (ITV) 1967-73; Presenter and Reporter, BBC TV Plymouth 1966-69; Reporter, BBC TV Nat. News 1973-75, Newsreader 1975-; Vice-Pres. Int. Club for Women in TV 1979-; Newsreader of the Year 1975, 1976, 1977. *Leisure interests:* cooking, gardening, riding. *Address:* c/o BBC TV Centre, Shepherds Bush, London, W.12, England. *Telephone:* 01-743 8000.

RIPPON, Rt. Hon. Geoffrey, P.C., Q.C., M.A., M.P.; British barrister and politician; b. 28 May 1924; ed. King's Coll., Taunton and Brasenose Coll., Oxford; called to Bar, Middle Temple 1948; mem. Surbiton Borough Council 1945-54, Mayor 1951- 52; mem. London County Council 1952-61; M.P. for Norwich 1955-64, for Hexham 1966-; Parl. Sec. Ministry of Aviation 1959-61; Joint Parl. Sec. Ministry of Housing and Local Govt. 1961-62; Minister of Public Building and Works 1962-64; Dir. Fairey Co. Ltd.; Dir. Bristol Aeroplane Co.; Dir. and Chair. Holland and Hannen & Cubitts 1964-70; Deputy Chair. Drake & Scull Ltd. 1964-70; Chair. Dun and Bradstreet (U.K.) 1975-, Britannia Arrow 1977–, Brasseys Publishers Ltd. 1977-, Britannia Financial Services 1978–; Minister of Technology June-July 1970; Chancellor of Duchy of Lancaster in charge of negotiations for British entry to Common Market 1970-72; Sec. of State for the Environment 1972-74; Leader, Conservative Group, European Parl.; Pres. British section, Council of European Municipalities 1956-; Pres. British section, European League for Econ. Co-operation 1969-; mem. Court Univ. of London 1958-; Hon. Fellow, Brasenose Coll., Oxford. *Publications:* Forward from Victory (co-author) 1943, The Rent Act 1957. *Address:* House of Commons, London, S.W.1, England.

RISCHBIETER, Karlos; Brazilian central banker; b. 24 Oct. 1927, Blumenau; s. of Luiz and Elga (Ebert) Rischbieter; m. Francisca Maria Rischbieter 1958; one s. one d.; ed. Eng. School Paraná Fed. Univ., courses in Paris and Curitiba, Paraná. Engineer and adviser to private cos. 1953-61; Head of Planning Area in Paraná State Devt. Co. (CODEPAR) 1962, then Admin. Dir., Financial Dir. then Pres. CODEPAR until 1965; Adviser to Pres. of Brazilian Coffee Inst., also Rep. of Inst. in Hamburg 1965-67; mem. Planning Advisory Council (CONSPLAN) in Ministry of Planning 1965-67; Pres. Bank of Devt. of State of Paraná (BADEP) 1972-74, Fed. Savings Bank (CEF) 1974-77, Banco do Brasil 1977-; Commdr. Order of Rio Branco; Commdr. Aeronautical Order of Merit. *Leisure interests:* painting, classical music, opera. *Address:* Banco do Brasil S.A., Eixo Rodoviário Sul–Setor Bancário Sul, Lote 23-20, Plano Piloto, Brasília, D.F. 70.000, Caixa Posta 562, Brazil. *Telephone:* (061) 224 2553, 224-3553.

RISHTYA, Kassim; Afghan writer and diplomatist; b. 21 March 1913, Kabul; s. of Said Habib-Zainab; m. 1st Noorjahan Ziai 1930 (died 1946), one s. one d.; m. 2nd Gulalai Kabir-Seraj 1971; ed. Istiqlal High School, Kabul; Clerk in Press Section, Ministry of Foreign Affairs 1932; Chief Clerk Foreign Relations Section, Ministry of Communications 1932; trans. at Afghan Acad. of Literature 1933, mem. 1934; Editor Kabul Almanach and Kabul Magazine 1936-38; Dir. Publs. Div. 1936, Vice-Pres. 1938; Dir.-Gen. of Publs.; Press Dept. 1940-44, Pres. 1948; Pres. Govt. Econ. Planning Board 1949, Govt. Co-operative Org. 1952, Bakhtar News Agency 1954; Minister of Information 1956-60, 1963, of Finance 1964; Afghan del. to UN 10th Gen. Assembly; headed Press del. to U.S.S.R. 1956; Amb. to Czechoslovakia, Poland and Hungary 1960-62, to United Arab Repub. 1962-63 (also accred. to Lebanon, Sudan, Greece), to Japan 1970-73 (retd.). *Publications:* Afghanistan in the 19th Century, Jawani Afghan, Jamaluddin Afghani, Afghanistan 1977, and several novels. *Address:* Zarghoona Watt 26, Kolola Pushta, Kabul, Afghanistan.

RISTERUCCI, Jean, L. EN D.; French civil servant and diplomatist; b. 11 April 1911, Bustanico, Corsica; s. of Paul M. Risterucci and Marie D. Renucci; m. Micheline Gérard 1944; five c.; ed. Ecole Nat. de la France d'Outre-Mer; official in Indochina Civil Service 1935-52; Political Adviser to High Commr. 1950-52; High Commr. in Cambodia 1952-54; Dir. du Cabinet to Sec. of State for Armed Forces (Air); Insp.-Gen. (Admin. Affairs), French West Africa; High Commr. in Gabon 1959-60, High Rep. 1960-62; Dir. of Overseas Territories 1963; High Commr. in Pacific and New Hebrides and Gov. of New Caledonia 1965-69; retd. 1973; Pres. and Dir.-Gen. Soc. de la mise en valeur agricole de la Corse 1974-; Commdr. Légion d'honneur, Croix de guerre, Médaille de l'Aéronautique; Commdr. or Grand Officier in Cambodian, Vietnamese and Laotian orders; Grand Officier of the Equatorial Star (Gabon). *Address:* 78 rue Charles Laffitte, 92200 Neuilly-sur-Seine, France, *Telephone:* 722-70-90.

RITBLAT, John Henry, F.S.V.A.; British business executive; b. 1935; m. Isabel Ritblat 1960; two s. one d.; ed. Dulwich Coll., Coll. of Estate Management, London Univ.; Chair. The British Land Co. Ltd., W. Crowther & Sons Ltd.; Senior Partner Conrad Ritblat & Co., Consultant Surveyors and Valuers; Crown Estates Paving Commr. *Leisure interests:* golf, skiing, squash, books, architecture. *Address:* 14 Manchester Square, London, W.1, England. *Telephone:* 01-935 4499.

RITCHIE, Albert Edgar, B.A.; Canadian diplomatist; b. 20 Dec. 1916, Andover, N.B.; s. of Stanley W. and Beatrice (Walker) Ritchie; m. Gwendolin Perdue 1941; two s. two d.; ed. Mount Allison and Oxford Univs.; Deputy Under-Sec. of State for External Affairs 1964-66; Amb. to U.S.A. 1966-70; Under-Sec. of State for External Affairs, Ottawa 1970-74; Special Adviser to Privy Council 1974; Amb. to Ireland 1976-; Hon. LL.D. (Mount Allison Univ.) 1966, (St. Thomas Univ.) 1968. *Leisure interests:* skating, walking, fishing. *Address:* Canadian Embassy, 65 St. Stephen's Green, Dublin 2, Ireland; 16 Carlyle Avenue, Ottawa, K1S 4Y3, Ont., Canada.

RITCHIE, Cedric E.; Canadian banker; b. 22 Aug. 1927, Upper Kent, N.B.; s. of E. Thomas Ritchie and Marion (née Henderson) Ritchie; m. Barbara Binnington 1956; two d.; ed. Bath High School, N.B.; joined The Bank of Nova Scotia, Bath N.B. 1945, served various branches in the Maritime Provinces and Montreal, Asst. Insp. 1954-56, Chief Accountant 1960-63, Asst. Gen. Man. Admin. 1963-66, Joint Gen. Man. 1966-68, Chief Gen. Man. Int. 1968-70, Chief Gen. Man. 1970-72, elected ■ Dir. 1972, Pres. and Chief Exec. Officer Dec. 1972-, Chair. of Board Dec. 1974-. *Leisure interests:* golf, skiing, curling. *Address:* The Bank of Nova Scotia, General Office, 44 King Street, West, Toronto M5H 1E2, Canada.

RITCHIE, Charles Stewart Almon, C.C.; Canadian diplomatist; b. 23 Sept. 1906; ed. Halifax, Oxford, Harvard and Paris Univs.; Third Sec. Dept. of External Affairs 1934-36, Washington 1936-39; Second Sec., London 1939-43; First Sec., London 1943-45, Ottawa 1945-47; Counsellor, Paris 1947-50; Asst. Under-Sec., Ottawa 1950-52; Deputy Under-Sec. 1952-54; Amb. to German Fed. Repub. and Head of Mil. Mission, Berlin 1954-58; Perm. Rep. to UN 1958-62; Amb. to U.S.A. 1962-66; Perm. Rep. to NATO 1966-67; Canadian High Commr. in UK. 1967-71; Special Adviser to Privy Council, Canada 1971-73. *Publications:* The Siren Years: Undiplomatic Diaries 1937-45 1975, An Appetite for Life: The Education of a Young Diplomat 1978. *Address:* Apt. 10, 216 Metcalfe Street, Ottawa, Ont., Canada.

RITCHIE, James Martin; Scottish business executive; b. 29 May 1917, Glasgow; s. of Sir James and Lady Ritchie; m. Noreen M. L. Johnston 1939; three s.; ed. Strathallan School; joined Andrew Ritchie & Son Ltd., Glasgow (family business) 1934, Dir. 1938; war service 1939-45; rejoined Andrew Ritchie & Son Ltd. 1945, Man. Dir. 1950; Gen. Man. Bowater-Eburite Ltd. (after merger) 1956; Dir. Bowater Paper Corpn. Ltd. 1959, Man. Dir. 1964, Deputy Chair. 1967, Chair. 1969-72; Vice-Chair. British Enkalon Ltd. 1974-75, Chair. 1975-; Dir. Vickers Ltd., British Enkalon Ltd., Haymills Holdings Ltd. (Chair. 1977-), Sun Alliance and London Insurance Group. *Leisure interest:* golf. *Address:* The Court House, Fulmer, Bucks., England. *Telephone:* Fulmer 2585.

RITCHIE, Robert James, C.B.E.; Australian airline executive; b. 5 Nov. 1915, Hurlstone Park, N.S.W.; s. of R. L. H. Ritchie; m. Gwendoline Rose Lester 1937; four s. one d.; ed. Cleveland Street High School, Sydney; joined Amalgamated Wireless (Australasia) Ltd. 1929, later flew with Kingsford Smith Aerial Services Ltd., Sydney, and Mandated Airlines Ltd., New Guinea; Pilot, W. R. Carpenter & Co. 1938; First Officer, Qantas Airways Ltd. 1943, Capt. 1944, Flight Capt. 1946; Flight Capt. (Constellations) 1947-48; Flight Supt., Kangaroo Service 1947-48; Asst. Operations Man., Qantas 1949-55, Technical Man. 1955-59, Dir. of Technical Services 1959-61, Deputy Chief Exec. and Deputy Gen. Man. 1961-67, Gen. Man. 1967-76, Dir. 1970-76. *Leisure interests:* golf, swimming. *Address:* Qantas House, 70 Hunter Street, Sydney, New South Wales (Office); 12 Graham Avenue, Pymble, N.S.W., Australia (Home).

RITCHIE-CALDER, Baron (Life Peer), cr. 1966, of Balmashannar; **Peter Ritchie Ritchie-Calder,** C.B.E., M.A.; British writer and university professor; b. (Peter) Ritchie Calder, 1 July 1906, Forfar; s. of David Lindsay Calder and Georgina Ritchie; m. Mabel Jane Forbes McKail 1927; three s. two d.; ed. Forfar Acad., Scotland. Police Court Reporter, Dundee Courier 1922, Daily News (London) 1926-30, Daily Chronicle 1930, Daily Herald 1930-41; Dir. of Plans of Political Warfare, Foreign Office 1941-45; Special Adviser, Supreme H.Q. 1945; Science Editor News Chronicle 1945-57; Editorial Staff, New Statesman 1945-57; mem. Council, British Assn. 1945-60, U.K. Del. UNESCO 1946, 1947, 1966, 1968; Special Adviser, FAO Famine Conf. 1946, UN and Specialized Agencies Missions for Deserts 1949-50, S.E. Asia 1951, 1962, Arctic 1955, Congo 1960; UN Sec. Atoms for Peace Conf. 1955, 1958; Prof. of Int. Relations, Edinburgh Univ. 1961-67; Visiting Prof. Heriot Watt Univ. 1973-; Chair. Edinburgh Univ. Settlement; Fellow World Acad. of Arts and Science; Chair. U.K. Metrication Board 1969-72; Founder mem. and fmr. Chair. Assn. British Science Writers; mem. Gen. Council, Open Univ. 1969-; mem. Panel to advise U.S. Library of Congress 1976-; Senior Fellow, Center for Study of Democratic Insts., Santa Barbara, Calif. 1972-75; UNESCO Kalinga Prize 1960, Victor Gollancz Award 1969; D. Univ. (Open Univ.) 1975; Hon. D.Sc. (York Univ., Toronto) 1976. *Publications:* The Birth of the Future 1934, Conquest of Suffering 1935, Roving Commission 1935, The Lesson of London 1941, Carry on London 1941, Start Planning Britain Now 1941, Profile of Science 1951, Men Against the Desert 1951, The Lamp is Lit 1951, Men Against Ignorance 1953, Men Against the Jungle 1954, Science Makes Sense 1955, Medicine and Man 1957, Men Against the Frozen North 1958, Ten Steps Forward 1958, The Hand of Life 1959, From Magic to Medicine 1959, The Inheritors 1960, Agony of the Congo 1961, Living With the Atom 1962, The Life Savers 1962, Commonsense about a Starving World 1962, Two-Way Passage 1964, Man and the Cosmos 1968, Evolution of the Machine 1968, Leonardo and the Age of the Eye 1971, How Long Have We Got? 1972, Pollution of the Mediterranean 1972. *Address:* 1 Randolph Place, Edinburgh 3, Scotland; 10 Denny Crescent, London, S.E.11, England. *Telephone:* 031-225 5565; 01-735 8969.

RITHAUDEEN AL-HAJ BIN TENGKU ISMAIL, Y.M. Tengku Ahmad; Malaysian barrister and politician; b. 24 Jan. 1932; mem. of Royal family of Kelantan; ed. Nottingham Univ. and Lincoln's Inn, U.K.; Circuit Magistrate in Ipoh 1956-58, Pres. of Sessions Court 1958-60; Deputy Public Prosecutor and Fed. Counsel 1960-62; mem. Council of Advisers to Ruler of State of Kelantan (MPR), resgnd to enter private practice; Chair. East Coast Bar Cttee. of Malaya; Chair. Sri Nilam Co-operative Soc., Malaysia; mem. Malayan Council 1967, 1968, 1969, 1970; Sponsor, Adabi Foundation; Sponsor, Kelantan Youth; Adviser, Kesatria; Chair. Farmers' Org. Authority; Minister with Special Functions Assisting Prime Minister on Foreign Affairs 1973-75; mem. Supreme Council, United Malays' Nat. Org. June 1975-; Minister for Foreign Affairs Aug. 1975-. *Address:* Ministry of Foreign Affairs, Kuala Lumpur, Malaysia.

RITSCHARD, Willi; Swiss politician; b. 28 Sept 1918, Deitingen/So.; s. of Ernest F. Ritschard and Frieda Ryf; m. Greti Hostettler 1941; one s. one d.; ed. Schweizerische Arbeiterschule; [illegible] of the Municipal 1943; Mayor 1947-59; mem. City Council, Solothurn Canton 1945-63; Nat. Councillor 1955-63; mem. Council of States for Solothurn Canton 1964-73; mem. Fed. Council 1973-, Vice-Pres. Jan.-Dec. 1977; Pres. of Swiss Confed. Jan.-Dec. 1978; Head of Dept of Transport, Communications and Energy 1973-; Social Democrat. *Leisure interests:* gardening, mountain walking. *Address:* Département des transports et communications et de l'énergie, 3003 Berne, Bundeshaus-Nord, Amthausgasse 15, Switzerland.

RITT, Martin; American film director; b. 2 March 1920, New York; s. of Morris and Rose Ritt; ed. Elon Coll; numerous Broadway acting appearances 1937-55; appeared in films: Winged Victory 1944, End of the Game 1976, Hollywood on Trial 1977; directed numerous productions on Broadway incl. Mr. Peebles and Mr. Hooker 1946, Yellow Jack 1947, The Big People 1947, Set My People Free 1948, The Man 1950, Cry of the Peacock 1950, Golden Boy 1954, Boy Meets Girl 1954, The Front Page 1954, A View from the Bridge 1955, A Memory of Two Mondays 1955; films directed: A Man is Ten Feet Tall 1956, Edge of the City 1956, The Down Payment 1957, The Long Hot Summer 1957, The Sound and the Fury 1958, The Black Orchid 1959, Five Branded Women 1960, Paris Blues 1961, Adventures of a Young Man 1962, Hud 1963, The Outrage 1964, The Spy Who Came in from the Cold 1965, Hombre 1967, The Brotherhood 1968, The Molly Maguires 1969, The Great White Hope 1970, Sounder 1972, Pete'n'Tillie 1972, Conrack 1974, The Front 1976, Casey's Shadow 1977; mem. Screen Dirs. Guild, American Fed. of TV and Radio Artists, Screen Actors Guild; Peabody Award. *Address:* International Creative Management, 8899 Beverly Boulevard, Los Angeles, Calif. 90048, U.S.A.

RITTER-AISLÁN, Eduardo, PH.D.; Panamanian diplomatist and educator; b. 11 Sept. 1916, Panama; s. of Federico Ritter and Juana Aislán de Ritter; m. 1st Elida Domingo 1939 (died 1956), 2nd Katharine Mason 1958; three s. three d.; ed. Univ. de Panamá and Pontificia Univ. Javeriana de Bogotá, Colombia; Private Sec. to Pres. of Repub. of Panama 1951; Prof. of Languages, Washington and Jefferson Coll., Washington, Pa. 1946-47; Prof. of Romance Languages, Howard Univ., Washington, D.C. 1947-49; Prof. of Philosophy, Univ. de Panamá 1949-53, 1955-57, 1963-65; Amb. to Colombia 1957-58, 1960-61; Alt. Amb. to UN 1958-60; Amb. to OAS 1965-71, Chair. Council of OAS 1966-67; decorations from Govts. of Panama, Colombia, Peru, Nicaragua, Vatican, and from Orgs. in U.S.A., Greece, Denmark, France and Italy. *Publications:* Umbral 1940, Crisalida 1941, Nenúfares: Poemas Orientales 1941, Mastil 1947, Poemas 1950, Espigas al Viento 1951, Rosicler (First Prize in Nat. Contest 'Ricardo Miró') 1955, Silva de Amor y otros poemas 1957, Tornasol 1967, Así hablaba Bem Asser 1968. *Leisure interests:* chess, weight-lifting, painting. *Address:* Betania 783, Panama City, Panama.

RITZEL, Gerhard Albert Johannes, DR. RER. POL.; German diplomatist; b. 12 April 1923, Michelstadt; s. of Heinrich G. and Elisabeth (née Lack) Ritzel: m. Ursula Fastenrodt 1966; one s. two d.; ed. Univs. of Basel, Geneva, Zürich and Heidelberg; Deputy Chief of Research, Jelmoli S.A., Zürich; entered foreign service 1951, posted to Bombay, Colombo, New York and Los Angeles; Foreign Office, Bonn 1960, Chef de Cabinet 1967; Chancellor's Office 1969; Amb. to Norway 1970-74, to Czechoslovakia 1974-77, to Iran 1977-79. *Address:* c/o Ministerium des Ausseren, 5300 Bonn 1, Adenauerallee 99-103, Federal republic of germany.

RIVERO, Admiral Horacio, Jr.; American diplomatist and retd. naval officer; b. 16 May 1910, Ponce, Puerto Rico; s. of Horacio Rivero and Margarita DeLucca; m. Hazel Hooper 1941; one d.; ed. Univ. Naval Acad., and Massachusetts Institute of Technology; commissioned ensign, U.S. Navy 1931, served in U.S.S. San Juan 1942-44, in U.S.S. Pittsburgh 1944-45; with Staff Office, Atomic Defence, Navy Dept. 1945-48; Commdg. Officer U.S.S. W.C. Law 1948; with Weapons Systems Evaluation Group 1949-51; Commdg. Officer U.S.S. Noble 1951-52; Nat. War Coll. 1953; Staff C.-in-C. Pacific Fleet 1953-55; Deputy Chief Armed Forces Special Weapons Project 1955-57; Commdr. Destroyer Flotilla 1957-58; Dir. Long Range Objectives, Navy Dept. 1958-60; Deputy Chief Staff C.-in-C. Atlantic Command and Fleet 1960-62, Commdr. Amphibious Force 1962-63; Dir. Navy Program Planning 1963-64; Vice-Chief Naval Operations 1964-68; C.-in-C. Allied Forces, S. Europe 1968-72; Amb. to Spain 1972-74; D.S.M., Legion of Merit and decorations from Ecuador, Brazil, Spain, Greece, Italy and Turkey. *Address:* 1424 Tenth Street, Coronado, Calif., U.S.A.

RIVETTE, Jacques; French film director; b. 1 March 1928; ed. Lycée Corneille, Rouen; Journalist and Critic on Cahiers du Cinéma 1953-; Asst. to Jacques Becker and Jean Renoir 1954; Dir. of Films 1956-. *Films:* Le coup du berger (director) 1956, Paris nous appartient (author and director) 1958-60, La Religieuse (director) 1966, L'Amour fou 1968, Out One: Spectre 1973, Céline et Julie vont en bateau 1974, Le vengeur, Duelle 1976. *Address:* 20 boulevard de la Bastille, 75012 Paris, France.

RIVIÈRE, Georges Henri; French ethnologist and museologist; b. 1897, Paris; Hon. Chief Keeper of Musée national des arts et traditions populaires; Perm. Adviser of Int. Council of Museums 1967-; Head, courses on Museum Administration, Univ. of Paris 1970-; Officier, Légion d'honneur. *Address:* ICOM, Maison de l'Unesco, 1 rue Miollis, 75015 Paris; 7 rue Pierre Louÿs, 75016 Paris, France. *Telephone:* 527-79-62 (Home).

RIVLIN, Moshe; Israeli executive; b. 16 Jan. 1925, Jerusalem; s. of Itzhak and Esther Rivlin; m. Ruth Moav (Horbaty) 1950; two d.; ed. Teachers' Seminary, Graduate Aluma Inst. for Jewish Studies, Mizrachi Teacher's College and School for Political Science, Hebrew Univ., Jerusalem. Major in ZAHAL 1948-49; Consul in U.S.A. 1952-58; Dir., Information Dept., The Jewish Agency 1958-60, Sec.-Gen. 1960-66, Dir.-Gen. and Head of Admin. and Public Relations Dept. 1966-71; elected Dir.-Gen. of reconstituted Jewish Agency 1971-; Assoc. mem. Exec., World Zionist Org. 1971; Chair. Keren Kayenietti Leisrael; Chair. Board of Dirs. Keren Kayemeth Leisrael 1977-; Nat. Chair. Haganah Veterans Asscn. in Israel; mem. Board of Govs. Ben-Gurion Univ., Coll. for Public Admin., Jewish Telegraphic Agency; mem. Exec. Cttee. Yad Ben-Zvi, mem. Council Yad Ben-Gurion; mem. Board of Dirs. Jerusalem Post, El Al, Hebrew Univ. *Address:* P.O. Box 283, Jerusalem; Hapalmach Street 34, Jerusalem, Israel (Home). *Telephone:* 39013 (Office), 02-35175 (Home).

ROA BASTOS, Augusto; Paraguayan writer and journalist; b. 1917; ed. Asunción; awarded John Simon Guggenheim Memorial Foundation 1971. *Publications:* Poetry: El Ruiseñor y la Aurora 1936, El Naranjal Ardiente 1947-49; Novels: El Trueno entre las Hojas 1953, Hijo de Hombre 1960, El Baldío 1966, Los Pies sobre el Agua 1967, Madera Quemada 1967, Moriencia 1969, Cuerpo Presente y otros cuentos 1971, Yo el Supremo 1974, Los Congresos 1974, El Somnámbulo 1976; Screen plays: El Trueno entre las Hojas 1955, Hijo de Hombre 1960, Shunko 1960, Alias Gardelito 1963, Castigo al Traidor 1966, El Señor Presidente 1966, Don Segundo Sombra 1968. *Address:* Berutti 2828, Martínez, Buenos Aires, Argentina.

ROA GARCIA, Dr. Raúl; Cuban author, professor and politician; b. 18 April 1907, Havana; Lecturer in Law and Social Sciences, then Prof. Univ. de la Habana; Dean of Social Sciences 1948-59; Cuban Rep., OAS 1956-58; Minister of Foreign Affairs 1959-76; Vice-Pres. Nat. Assembly of People's Power 1976-; mem. Council of State; Prof. of Merit of Univ. de la Habana; Guggenheim Fellow 1945-46; Nat. journalism award Justo de Lara 1954. *Publications:* Historia de las Doctrinas Sociales 1948, Quince Años Después 1950, Viento Sur 1953, Retorno ■ la Alborada 1964. *Address:* Asamblea Nacional de Poder Popular, Havana, Cuba.

ROBBE-GRILLET, Alain; French writer, film-maker and agronomist; b. 18 Aug. 1922, Brest; s. of Gaston Robbe-Grillet and Yvonne Canu; m. Catherine Rstakian 1957; ed. Lycée Buffon, Lycée St. Louis and Inst. Nat. Agronomique, Paris; Chargé de Mission, Inst. Nat. de la Statistique 1945-48; Engineer Inst. des Fruits Tropicaux (Guinea, Morocco, Martinique and Guadeloupe) 1949-51; Literary Adviser Editions de Minuit. *Publications:* Novels: Les gommes 1953, Le voyeur 1955, La jalousie 1957, Dans le labyrinthe 1959, La maison de rendez-vous 1965, Projet pour une révolution à New York 1970, Topologie d'une cité fantôme 1976, La belle captive 1977, Un régicide 1978, Souvenirs du triangle d'or 1978; short stories:Instantanés 1962; essay: Pour un nouveau roman 1964; films: L'Année dernière à Marienbad 1961, L'Immortelle 1963 (dir.), Trans-Europ-Express 1967 (dir.), L'homme qui ment 1968, L'Eden et après 1970, Glissements progressifs du plaisir 1974, Le jeu avec le feu 1975. *Address:* 18 boulevard Maillot, 92 Neuilly-sur-Seine, France. *Telephone:* 722-31-22.

ROBBINS, Baron (Life Peer), cr. 1959, of Clare Market; **Lionel Charles Robbins,** C.B., C.H., B.SC.(ECON.), M.A., F.B.A.; British economist; b. 22 Nov. 1898; s. of late Rowland Richard Robbins, C.B.E.; m. Iris Elizabeth Gardiner 1924; one s. one d.; ed. Univ. Coll., London, and London School of Economics; served First World War 1916-19; Lecturer, New Coll., Oxford 1924, L.S.E. 1925-27; Fellow and Lecturer, New Coll., Oxford 1927-29; Prof. of Economics in Univ. of London 1929-61; Hon. Fellow Univ. Coll., London, L.S.E., London Graduate School of Business Studies, Manchester Coll. of Science and Technology; Dir. Econ. Section Offices of the War Cabinet 1941-45; mem. Council Royal Econ. Soc., Board of Trustees, Nat. Gallery 1952-59, 1960-74, Tate Gallery 1953-59, 1962-67; Dir. Royal Opera House, Covent Garden 1956-; Chair. Financial Times 1961-71; Pres. British Acad. 1962-67; Chair. Prime Minister's Cttee. on Higher Educ. 1961-63; Chancellor, Univ. of Stirling 1968-78; Chair. Court of Govs., L.S.E. 1968-74, mem. 1974-; mem. Acad. dei Lincei, American Philosophical Soc., American Acad. of Arts and Sciences; Hon. L.H.D. (Columbia); Hon. D.Litt. (Durham, Exeter, Strathclyde, Sheffield, Heriot Watt); Hon. LL.D. (Strasbourg, Exeter, Leicester and Cambridge Univs. and Univ. of Calif.); Doutor en Ciências Económicas e Financeiras (Tech. Univ., Lisbon); Hon. D.Sc.(Econ) (London), and numerous other hon. degrees. *Publications:* An Essay on the Nature and Significance of Economic Science, The Great Depression, Economic Planning and International Order, The Economic Basis of Class Conflict and Other Essays in Political Economy, The Economic Causes of War, The Economic Problem in Peace and War, The Theory of Economic Policy in English Classical Political Economy, The Economist in the Twentieth Century, Robert Torrens and the Evolution of Classical Economics, Politics and Economics, The University in the Modern World, The Theory of Economic Development in the History of Economic Thought, The Evolution of Modern Economic Theory, Autobiography of an Economist, Money, Trade and International Relations, Political Economy Past and Present. *Leisure interest:* the arts. *Address:* 10 Meadway Close, London, N.W.11, England.

ROBBINS, Frederick Chapman, A.B., B.S., M.D.; American scientist and university professor; b. 25 Aug. 1916, Auburn, Ala.; m. Alice Havemeyer Northrop 1948; two d.; ed. Univ. of Missouri and Harvard Medical School; served U.S. Army 1942-46; Senior Fellow, Nat. Research Council 1948-50; Research Fellow, Harvard Medical School 1948-50; Instructor, Harvard Medical School 1950-51, Assoc. (Pediatrics) 1951-52; Assoc., Research Div. of Infectious Disease, Children's Medical Center, Boston 1950-52; Assoc. Physician and Assoc. Dir. of Isolation Services, Children's Hospital, Boston 1950-52; Research Fellow, Boston Lying-in Hospital 1950-52; Asst. Children's Medical Service, Mass. Gen. Hospital, Boston 1950-52; Dir. Dept. of Pediatrics and Contagious Diseases, Cleveland Metropolitan Gen. Hospital 1952-66; Prof. of Pediatrics, Case Western Reserve Univ. School of Medicine, Cleveland 1952-, Dean 1966-; Assoc. Pediatrician Univ. Hospitals, Cleveland 1952-; mem. Nat. Acad. of Sciences 1972, American Philosophical Soc. 1972; Hon. D.Sc. (John Carrol and Mo. Univs.); Hon. LL.D. (New Mexico) 1968; Bronze Star 1945; First Mead Johnson Award (jointly) 1953; Nobel Prize (jointly) 1954; Medical Mutual Honor Award for 1969. *Publications:* various scientific papers related to virus and rickettsial diseases, especially 'Q' fever in the Mediterranean area and cultivation of poliomyelitis viruses in tissue culture. *Address:* Case Western Reserve University, 2119 Abington Road, Cleveland, Ohio 44106; 2467 Guilford Road, Cleveland Heights, Ohio 44118, U.S.A. (Home). *Telephone:* 216-368-2820.

ROBBINS, Harold (pseudonym of Francis Kane); American author; b. 21 May 1916, New York; m. 1st Lillian Machnivitz (dissolved); m. later Grace Palermo; two d.; ed. George Washington High School, New York; food and commodity dealer, New York until 1940; Shipping Clerk, later Dir. of Budget and Planning, Universal Pictures, New York 1940-46. *Publications:* Never Love ■ Stranger 1948, The Dream Merchants 1949, A Stone for Danny Fisher 1952, Never Leave Me 1953, 79 Park Avenue 1955, Stiletto 1960, The Carpetbaggers 1961, Where Love Has Gone 1962, The Adventurers 1966, The Inheritors 1969, The Betsy 1971, The Pirate 1974, The Lonely Lady 1976, Dreams Die First 1977. *Address:* Trident Press, 630 Fifth Avenue, New York, N.Y. 10020, U.S.A.; Le Cannet, Cannes, France (Home).

ROBBINS, Jerome; American choreographer and director; b. 11 Oct. 1918; ed. New York Univ.; Dancer in Broadway choruses 1938-40; American Ballet Theatre soloist 1941-46; Assoc. Artistic Dir., New York City Ballet 1949-; formed Ballets: U.S.A.; touring U.S. and Europe 1958-; Antoinette Perry (Tony) Award for Fiddler on the Roof 1965. *Choreographed:* Ballets: Fancy Free 1944, Interplay 1945, Facsimile 1947, Pas de Trois 1947, The Cage 1951, Fanfare 1953, Afternoon of ■ Faun 1953, The Concert 1956, N.Y. Export op. Jazz 1958, Moves 1961, Events 1961, Les Noces 1965, Dances at a Gathering 1970, Requiem Canticles 1972, In the Night, The Dybbuk Variations 1974, Mother Goose 1975, and many others; Musicals include: On the Town 1945, High Button Schoes 1947, Call Me Madam 1950, The King and I 1951 (film 1956), The Pajama Game (co-dir.) 1954, Bells are Ringing (dir.) 1956, West Side Story (dir. and choreographer) 1957, (film 1960), Gypsy (dir. and choreographer) 1959, Oh Dad, Poor Dad (dir.) 1962, Fiddler on the

Roof (dir. and choreographer) 1964; Opera: The Tender Land 1954. *Address:* c/o New York City Ballet, New York State Theatre, Lincoln Center, New York, N.Y. 10023, U.S.A.

ROBBINS, John Dennis, O.B.E., T.D., F.C.A.; British accountant, retd. company executive and merchant; b. 28 July 1915, London; s. of Duncan Ross Robbins and Harriette Winifred Robbins (née Goodyear); m. Joan Mary Mason 1942; one s. two d.; ed. Aldenham School; commissioned Middlesex Regt. 1939; served North Africa, Italy, Middle East and twice mentioned in despatches; retd. ■ Lieut.-Col. 1946; Partner, Kay Keeping & Co. (chartered accountants) 1946-49; Gen. Man. The British Metal Corpn. Ltd. 1950, Dir. 1952, a Man. Dir. 1963; Dir. Amalgamated Metal Corpn. Ltd. 1965, Chair. 1975-77; Dir. Aluminium Bahrain 1967-75, Chair. 1969-75; Dir. Smith & Nephew Associated Cos., London Board of Advice, Nat. Bank of Australasia Ltd. *Leisure interests:* gardening, shooting, fly-fishing. *Address:* Inworth Hall, Kelvedon, near Colchester, Essex, England. *Telephone:* Kelvedon (0376) 70318.

ROBBINS, John Everett, M.A., PH.D.; Canadian international official and university administrator (retd.); b. 9 Oct. 1903, Hampton, Ont.; s. of John and Gertrude (Brown) Robbins; m. Catherine Saint-Denis 1934; two s.; ed. schools in Ontario and Manitoba and Univs. of Manitoba and Ottawa. Dir. of Educ. and Information Divs., Dominion Bureau of Statistics 1930-51; Dir. of Educ. for Palestine Refugees (UNESCO) in Middle East 1951-52; Ed.-in-Chief Encyclopedia Canadiana 1953-58; Sec.-Treas. Humanities Research Council of Canada and Social Science Research Council of Canada 1958-60; Pres. Brandon Coll. 1960-67, Brandon Univ. 1967-69; First Amb. of Canada to the Vatican 1970-73; Chair. of Exec. Amnesty Int. Canada 1973-74, Treas. 1974-75; Dir. Canadian Writers' Foundation, Pres. 1976-78; Treas. World Federalists of Canada 1976-77, Pres. 1977-79. *Publications:* Numerous reports, monographs and articles. *Leisure interests:* United Nations Assen., Canadian Assen. for Adult Educ., Amnesty International, Canada. *Address:* 336 Island Park Drive, Ottawa K1Y OA7, Ontario, Canada. *Telephone:* 728-3061.

ROBENS OF WOLDINGHAM, Baron, cr. 1961 (Life Peer), of Woldingham in the County of Surrey; **Alfred Robens,** P.C., D.C.L., LL.D.; British politician; b. 18 Dec. 1910, Manchester; s. of George and Edith Robens; m. Eva Powell 1937; ed. Council School; Official of Union of Distributive and Allied Workers 1935-45; Manchester City Councillor 1942-45; Labour M.P. for Wansbeck Div. of Northumberland 1945-50, Blyth 1950-60; Parl. Private Sec. to Minister of Transport 1945-47; Parl. Sec. Minister of Fuel and Power 1947-51; Minister of Labour April-Oct. 1951; Labour Relations Consultant, Atomic Power Construction Ltd. 1960; Deputy Chair. Nat. Coal Board 1960-61, Chair. 1961-71; Chair. Johnson Matthey and Co. Ltd. 1971-, Vickers Ltd. 1971-; mem. NEDC 1962-71; Pres. Advertising Assen. 1963-67; Chair. Foundation on Automation and Employment 1970; Chair. Council of the Manchester Business School 1970-; mem. Royal Comm. on Trade Unions and Employers' Assens. 1965-68; Chair. Govt. Enquiry into Safety and Health of People at Work; Chair. Engineering Industries Council 1975-; Gov. Queen Elizabeth's Training Coll. for the Disabled 1951-; Chair. of Govs. Guy's Hosp. 1965-74; Dir. J. H. Sankey and Son Ltd., Bank of England 1966-, St. Regis Paper Co. (U.K.) 1971-, St. Regis Int. (U.K.) 1976-, Trust-Houses-Forte 1971-, Times Newspapers, Chair. Joint Econ. Mission to Malta 1967; Chancellor, Univ. of Surrey 1966-77; Hon. D. Civil Law (Newcastle), Hon. LL.D. (Leicester and Manchester Univs.); Albert Medal of R.S.A. 1977. *Publications:* Human Engineering 1970, Ten Year Stint 1971. *Leisure interest:* gardening. *Address:* Walton Manor, Walton-on-the-Hill, Surrey, England.

ROBERT, Louis; French archaeologist; b. 15 Feb. 1904, Laurière, Haute-Vienne; s. of Léon and Valentine Robert; m. Jeanne Vanseveren 1938; ed. Paris Univ., Ecole Normale Supérieure; mem. French School, Athens 1927-32; Dir. of Studies, Ecole des Hautes Etudes 1932-74; Prof. of Greek Epigraphy and Antiquities, Coll. de France 1939-74; dir. excavations at Amyzon 1949 and Claros (Temple of Apollo) 1950-61; mem. Acad. des Inscriptions et Belles Lettres (Pres. 1955 and 1966) and of numerous foreign acads.; Officier Légion d'honneur. *Publications:* Villes d'Asie Mineure, Etudes anatoliennes, Les gladiateurs dans l'Orient Grec, Etudes de numismatique grecque, Hellenica (13 vols.), Noms indigènes dans l'Asie Mineure, La Carie (with his wife, Jeanne Robert), Monnaies antiques ■ Troade, Monnaies grecques, Opera Minora Selecta (4 vols.), etc. *Address:* 31 avenue René Coty, 75014 Paris, France.

ROBERTHALL, Baron (Life Peer), cr. 1969, of Silverspur, Queensland and Trenance, Cornwall; **Robert Lowe Hall,** K.C.M.G., C.B., M.A., B.ENG.; British economist; b. 6 March 1901, Tenterfield, N.S.W., Australia; s. of Edgar and Rose Hall; m. 1st Laura Margaret Linfoot 1932 (dissolved 1968), two d.; m. 2nd Perilla Thyme Nowell-Smith 1968; ed. Univ. of Queensland and Magdalen Coll., Oxford; Lecturer in Econs., Trinity Coll., Oxford 1926-27; Fellow of Trinity Coll., Oxford 1927-49; temporary civil servant 1939-45; Dir. Econ. Section, Cabinet Office 1947-53; Econ. Adviser to Her Majesty's Govt. 1953-61; mem. of Econ. Planning Board 1947-61; Vice-Pres. Royal Econ. Soc. (Pres. 1958-60); Advisory Dir. Unilever Ltd. 1961-71; Adviser, Tube Investments Ltd. 1961-76; Principal, Hertford Coll., Oxford 1964-67; Pres. Soc. of Business Economists 1968-73. *Publications:* Earning and Spending 1934, The Economic System in ■ Socialist State 1936, The Place of the Economist in Government (Sidney Ball Lecture, Oxford) 1956, Planning (Rede Lecture, Cambridge) 1963. *Leisure interest:* gardening. *Address:* 7A Carey Mansions, Rutherford Street, London, S.W.1; Trenance, Newquay, Cornwall, England. *Telephone:* 01-834 7041 (London); St. Mawgan 242 (Cornwall).

ROBERTO, Holden (*see* Holden, Roberto)

ROBERTS, Chalmers McGeagh, A.B.; American journalist; b. 18 Nov. 1910; m. Lois Hall 1941; two s. one d.; ed. Amherst Coll.; Reporter Washington Post, D.C. 1933-34, Associated Press, Pittsburgh Bureau 1934-35, Toledo News-Bee 1936-38, Japan Times, Tokyo 1938-39; Asst. Man. Ed. Washington Daily News 1939-41; Sunday Ed. Washington Times-Herald 1941; Office of War Information, London and Washington 1941-43; U.S. Army Air Force 1943-46; Life magazine 1946-47; Washington Star 1947-49; Washington Post 1949-, Chief Diplomatic corresp. 1954-71, Columnist 1971-; Hon. Dr. of Humane Letters 1963. *Publications:* Washington Past and Present 1950, Can We Meet the Russians Half Way? 1958, The Nuclear Years: the Arms Race and Arms Control, 1945-70 1970, First Rough Draft: ■ Journalist's Journal of Our Times 1973, The Washington Post: The First 100 Years 1977. *Address:* Washington Post, 1150 15th Street, N.W., Washington, D.C. 20071 (Office); 6699 MacArthur Boulevard, Washington, D.C. 20016, U.S.A. (Home).

ROBERTS, David Arthur, C.M.G.; British diplomatist; b. 8 Aug. 1924, Aberystwyth; ed. Hereford Cathedral School, Jesus Coll., Oxford; Served Royal Armoured Corps 1943-46; joined H.M. Diplomatic Service 1947; Private Sec., Baghdad 1948-49; Commercial Sec., Tokyo 1949-51; Foreign Office 1951-53; Consular Div., Alexandria 1953-55; Second and First Sec., Khartoum 1955-58; Foreign Office 1958-60; Regional Information Officer for French-speaking Africa 1960-61, Chargé d'Affaires, Bamako and Lomé 1960-61; Foreign Office 1962-63; Head of Chancery, Damascus 1963-66; Political Agent in the Trucial States, Dubai 1966-68; Head of Accommodation Dept., Foreign Office 1968-71; High Commr. in Barbados 1971-73; Amb. to Syria 1973-76; High Commr. in Sierra Leone 1976-77; Amb. to United Arab Emirates 1977. *Address:* c/o Foreign and Commonwealth Office, King Charles Street, London, S.W.1, England.

ROBERTS, Sir Denys Tudor Emil, K.B.E., Q.C., M.A., B.C.L.; British barrister and administrator; b. 19 Jan. 1923, London; s. of William David Roberts and Dorothy Eliza Morrison; m. 1949 (dissolved 1971); one s. one d.; ed. Aldenham School, Wadham Coll., Oxford and Lincoln's Inn; Captain, Royal Artillery 1943-46; English Bar 1950-53; Crown Counsel, Nyasaland (now Malawi) 1953-59; Attorney-Gen., Gibraltar 1960-62; Solicitor-Gen., Hong Kong 1962-66, Attorney-Gen. 1966-73; Colonial Sec., Hong Kong 1973-76, Chief Sec. 1976-, Chief Justice 1979-. *Publications:* five novels 1955-65. *Leisure interests:* writing, cricket, tennis, walking. *Address:* Supreme Court, Hong Kong (Office); Chief Justice's House, Gough Hill Road, Hong Kong (Home).

ROBERTS, Sir Frank Kenyon, G.C.M.G., G.C.V.O., M.A.; British diplomatist (retd.), international official and businessman; b. 27 Oct. 1907, Buenos Aires, Argentina; s. of Henry George Roberts and Gertrude Kenyon; m. Celeste Leila B. Shoucair 1937; ed. Bedales and Rugby Schools and Trinity Coll., Cambridge; Third Sec. Foreign Office 1930-32, British Embassy, Paris 1932-35; Second Sec. Cairo 1935-37, Foreign Office 1937-45 (First Sec. 1941, Head of Central Dept. 1941-45, Acting Counsellor 1943); Chargé d'Affaires to Czechoslovak Govt. in London 1943; Minister to U.S.S.R. 1945-47; Private Sec. to Foreign Sec. 1947-49; mission to Moscow 1948; Deputy High Commr. in India 1949-51; Deputy Under-Sec. of State, Foreign Office 1951-54; Amb. to Yugoslavia 1954-57; U.K. Perm. Rep. on N. Atlantic Council 1957-60; Amb. to U.S.S.R. 1960-62, to Fed. Repub. of Germany 1963-68; Advisory Dir. Unilever Ltd., Dir. Dunlop Holdings Ltd., Hoechst (U.K.), Mercedes-Benz (U.K); fmr. adviser on Int. Affairs to Lloyds; Pres. British Atlantic Cttee. 1973-; Pres. Atlantic Treaty Assen. 1969-73, Vice-Pres. 1973-; Chair. European-Atlantic Group 1970-73, Pres. 1973-; Gov. Atlantic Inst. for Int. Affairs; mem. Review Cttee. on Overseas Representation 1968-69; mem. Council of the Royal Inst.

for Int. Affairs; Pres. German Chamber of Industry and Commerce 1971-74, Vice-Pres. 1974-; Grand Cross of German Order of Merit. *Leisure interests:* golf, reading, travelling, international relations. *Address:* 25 Kensington Court Gardens, London, W8 5QF, England. *Telephone:* 01-937 1140.

ROBERTS, George A., D.SC.; American business executive; b. 18 Feb. 1919, Uniontown, Pa.; s. of Jacob Earle Roberts and Mary Mildred Bower; m. Jeanne Polk Roberts 1971; two s. one d.; ed. Carnegie Inst. of Technology; Pres. and Chair. of the Board, Vasco Metals Corpn. until 1966; Pres. and mem. of the Board of Dirs., Teledyne Inc. (following merger with Vasco Metals) 1966-; fmr. Int. Pres. American Soc. for Metals, Pres. American Soc. for Metals Foundation for Educ. and Research, Trustee Council for Profit Sharing Industries, Trustee Trade Relations Council and Chair. of the Board Metallurgy-Ceramics Foundation Inc.; mem. Board of Trustees, Carnegie-Mellon Univ.; Fellow of the Metallurgical Soc. of the American Inst. of Mining, Metallurgical and Petroleum Engineers and the American Soc. for Metals; mem. Nat. Acad. of Engineering. *Publications:* Tool Steels; many technical papers. *Address:* Teledyne Inc., 1901 Avenue of the Stars, Los Angeles, Calif. 90067, U.S.A.

ROBERTS, Henry Reginald, B.A.; American (b. Canadian) life assurance executive; b. 2 June 1916, Toronto, Ont.; s. of Alfred Reginald and Mary Margaret (Creighton) Roberts; m. Margaret Elizabeth Fisher 1940; two s. two d.; ed. Univ. of Toronto; with Mfrs. Life Insurance Co., Toronto 1937-42; went to U.S. 1945, naturalized 1954; joined Conn. Gen. Life Insurance Co., Hartford 1945, Second Vice-Pres. 1958-60, Exec. Vice-Pres. and Dir. 1960-61, Pres. and Chief Exec. Officer 1961-76; Chair. of Board Aetna Insurance Co. (affiliate) 1966, Chair. Investment Cttees. both cos. 1966; Pres. and Dir. Conn. Gen. Insurance Corpn. (parent co.) 1967-76, Chair. 1976-; Dir. Gen. Foods Corpn., S. New England Telephone Co., Greater Hartford Corpn.; mem. Advisory Cttee. on Business Programs, Brookings Inst.; Dir. Int. Exec. Service Corps; Trustee, Rensselear Polytechnic Inst. of Conn., Conn. Public Expenditure Council, Kingswood-Oxford School; mem. advisory board, Council for Financial Aid to Educ.; fmr. Dir. Health Insurance Inst., Inst. of Life Insurance; Chair. Insurance Assn. of Conn.; mem. Special Cttee. on Capital Funding of Atomic Energy Devt. of American Life Insurance Assn.; Fellow, Soc. of Actuaries; Hon. L.H.D. (Clarkson Coll. of Technology), Hon. LL.D. (Trinity Coll., Univ. of Hartford). *Address:* Connecticut General Life Insurance Company, Hartford, Conn. 06152 (Office); 171 Bloomfield Avenue, Hartford, Conn., U.S.A. (Home). *Telephone:* 203-243-8811.

ROBERTS, John Alexander Fraser, C.B.E., F.R.S., M.A., M.D., D.SC., F.R.C.P., F.R.C.PSYCH.; British geneticist; b. [redacted] Sept. 1899, Denbigh.; s. of Robert H. and Elizabeth M. Roberts; m. 1st Doris Breamer Hare 1941, 2nd Margaret Dorothy Ralph 1975; two d.; ed. Univs. of Cambridge, Edinburgh, Bristol and Univ. Coll. of N. Wales, Bangor; Research Asst. Animal Breeding Research Dept., Univ. of Edinburgh 1922-28; Biologist, Wool Industries Research Assn. 1928-31; Macaulay Research Fellow, Univ. of Edinburgh 1931-33; Dir. of Research, Burden Mental Research Dept., Bristol 1933-57; Surgeon-Commdr. R.N.V.R. and Consultant, Medical Statistics, Royal Navy 1942-46; Lecturer, London School of Hygiene and Tropical Medicine; Dir. Clinical Genetics Research Unit, Medical Research Council 1957-64; Consultant in medical genetics, Great Ormond Street Children's Hospital, London; Geneticist, Paediatric Research Unit, Guy's Hospital, London 1964-; Hon. Consultant in Medical Genetics 1964-. *Publications:* An Introduction to Medical Genetics 1940; papers in medical and genetical journals. *Leisure interest:* mountain walks. *Address:* Paediatric Research Unit, Guy's Hospital Medical School, London, S.E.1; 10 Aspley Road, Wandsworth, London, S.W.18, England. *Telephone:* 01-407 7600, Ext. 2340; 01-874 4826 (Home).

ROBERTS, John D., PH.D.; American chemist and educator; b. 8 June 1918, Los Angeles, Calif.; s. of Allen Andrew Roberts and Flora Dombrowski; m. Edith M. Johnson 1942; three s. one d.; ed. Univ. of Calif. at Los Angeles; Instructor Univ. of Calif. at Los Angeles; Nat. Research Fellow in Chem., Harvard Univ. 1945-46, Instructor 1946; Instructor M.I.T. 1946-47, Asst. Prof. 1947-50, Assoc. Prof. 1950-53; Guggenheim Fellow, Calif. Inst. of Technology 1952-53, Prof. of Organic Chem. 1953-72, Inst. Prof. of Chem. 1972–,Chair. Div. of Chem. and Chemical Engineering 1963-68, Acting Chair. 1972-73; Visiting Prof. Ohio State Univ. 1952, Harvard Univ. 1959-60, Univ. of Munich 1962; Distinguished Visiting Prof. Univ. of Iowa 1967; Visiting Prof. Stanford Univ. 1973; mem. Nat. Acad. of Sciences Chair. Section of Chem. 1968-71, of Mathematical and Physical Sciences 1976-78, Class I 1977-79; mem. American Philosophical Society 1974; Dr. h.c. (Munich and Temple Univ.); American Chemical Soc. Award in Pure Chem. 1954, Harrison Howe Award 1957, Roger Adams Award 1967, Univ. of Calif. at Los Angeles Alumni Achievement Award 1967, Nichols Medal 1972, Richard C. Tolman Medal 1975, Michelson-Morley Award 1976, James F. Norris Award 1979. *Publications:* Nuclear Magnetic Resonance 1958, Spin-Spin Splitting in High Resolution Nuclear Magnetic Resonance Spectra 1961, Molecular Orbital Calculations 1961, Basic Principles of Organic Chemistry 1965, Modern Organic Chemistry 1967, Organic Chemistry, Methane to Macromolecules 1971; and numerous articles 1940-. *Leisure interests:* tennis, skiing, sailing, classical music, colour photography. *Address:* Gates and Crellin Laboratories, California Institute of Technology, Pasadena, Calif. 91125, U.S.A. *Telephone:* 213-795-6841.

ROBERTS, Walter Orr, PH.D.; American solar astronomer; b. 20 Aug. 1915, West Bridgewater, Mass.; s. of Ernest Marion and Alice Elliot Orr Roberts; m. Janet Naomi Smock 1940; three s. one d.; ed. public schools, Brockton, Mass., Amherst Coll. and Harvard Univ.; est. and directed solar coronagraph station of Harvard Coll. Observatory, Climax, Colorado 1940-46; Dir. High Altitude Observatory, Boulder, Colorado 1946-60; Dir. Nat. Center for Atmospheric Research, Boulder 1960-68; Pres. Univ. Corpn. for Atmospheric Research, Boulder 1960-73, Trustee 1960-75; Pres. A.A.A.S. 1968; Trustee, The MITRE Corpn. 1960-, Amherst Coll. 1964-70, Kettering Foundation 1964-70, Max C. Fleischmann Foundation 1967–, Aspen Inst. for Humanistic Studies 1970-, Int. Fed. of Insts. for Advanced Study 1971-; Dir. Program on Science, Technology and Humanism, Aspen Inst. for Humanistic Studies 1974-77; Dir. Program on Food, Climate and the World's Future, Aspen Inst. for Humanistic Studies 1977-; Head of Subcttee. of U.S.-U.S.S.R. Co-operative Programme on Man's Impact on the Environment 1973-75; mem. Editorial Board Journal of Planetary and Space Science, U.S.-Japan Cttee. on Scientific Co-operation 1968-, Environmental Group, UN Assn. of U.S.A. 1970-75; fmr. mem. Advisory Cttee. World Meteorological Org., Geophysics Board of Nat. Acad. of Sciences, Gen. mem. Board of Dirs., Int. Inst. for Environment and Devt. Affairs 1971-76, mem. Ctte. on Int. Environmental Programs of the Nat. Acad. of Sciences 1971-75, Defense Science Board, Dept. of Defense 1972-75; Sec. Marconi Int. Fellowship Council 1974-; Dir. Air Force Acad. Foundation 1973–, mem. Founding Board Civilian/Mil. Inst. 1975-, Chair. Task Force on Science and Tech. 1975-; Dir. Worldwatch Inst. 1975-; Trustee, Upper Atmosphere Research Corpn. 1971-74; Hon. D.Sc. (Ripon Coll., Amherst Coll., The Colorado Coll., C. W. Post Coll. of L.I. Univ., Carleton Coll., Southwestern at Memphis, Colo., Denver Univs.); Hodgkins Medal, Smithsonian Inst. 1973. *Leisure interests:* music, gardening, flying. *Address:* 1919 14th Street No. 811, Boulder, Colo. 80302 (Office); 1829 Bluebell Avenue, Boulder, Colo. 80302, U.S.A. (Home). *Telephone:* (303) 443-1230 (Office).

ROBERTSON, Harold Rocke, C.C., M.D., C.M., F.R.C.S., F.A.C.S., F.R.S.C., D.C.L., LL.D., D.SC.; Canadian surgeon; b. 4 Aug. 1912, Victoria, B.C.; s. of Harold Bruce Robertson and Helen McGregor Rogers; m. Beatrice Roslyn Arnold 1937; three s. one d.; ed. St. Michael's School, Victoria, B.C., Ecole Nouvelle, Coppet, Switzerland, Brentwood Coll., Victoria, B.C., and McGill Univ.; Chief of Surgery, Shaughnessy Hospital, D.V.A., Vancouver 1945-59; Chief of Surgery, Vancouver Gen. Hospital 1950-59; Prof. of Surgery, Univ. of B.C. 1950-59; Surgeon-in-Chief, Montreal Gen. Hospital 1959-62; Prof. of Surgery, Chair. of Dept., McGill Univ. 1959-62; Principal and Vice-Chancellor, McGill Univ. 1962-70; Pres. Conf. of Rectors and Principals of Quebec Univs. 1968-. *Publications:* Numerous articles in medical journals and medical textbooks. *Leisure interests:* tennis, fishing, gardening, golf. *Address:* 301 Buena Vista Road, Ontario K1M 0W1, Canada. *Telephone:* (613) 746-5409.

ROBERTSON, James Louis; American government official; b. 31 Oct. 1907, Broken Bow, Neb.; m. Julia Jensen 1928; three s.; ed. Grinnell Coll., Iowa, George Washington Univ., and Harvard Law School; U.S. Senate Post Office 1927; later Special Agent, Fed. Bureau of Investigation; admitted to Court of Appeals Bar, D.C. 1931, to Supreme Court of United States 1935; Office of Comptroller of Currency 1933-43; U.S. Naval Reserve 1943-44; Deputy Comptroller of Currency 1944-52; mem. Board of Govs. Fed. Reserve System 1952-, Vice-Chair. 1966-73. *Leisure interests:* reading, tennis, squash. *Address:* Federal Reserve Board, Washington, D.C. 20551 (Office); 5114 Brookview Drive, Westhaven, Md., U.S.A. (Home). *Telephone:* RE 7-1100, Ext. 217 (Office).

ROBERTSON, Sir James Wilson, K.T., G.C.M.G., G.C.V.O., K.B.E., M.A.; British overseas administrator (retd.); b. 27 Oct. 1899, Broughty Ferry, Angus; s. of James Robertson and Margaret Eva Wilson; m. Nancy Walker 1926; one s. one d.; ed. Merohiston Castle School, Edinburgh and Balliol Coll., Oxford; Asst. District Commr. Sudan Political Service 1922, District Commr. 1933; Compensation Commr. Jebel Aulia Dam 1936; Sub. Gov. White Nile Province

1937; Deputy Gov. Gezira Province 1939, Acting Gov. 1940-41; Asst. Civil Sec. 1941-42; Deputy Civil Sec. 1942-45, Civil Sec. 1945-53 (periodically Acting Gov.-Gen. of the Sudan); Chair. British Guiana Constitutional Comm. 1954; Dir. Uganda Co. Ltd. 1954-55, 1961-69; Hon. Fellow, Balliol Coll. 1953-; Gov.-Gen. and C.-in-C. Nigeria 1955-60; Chair. Commonwealth Inst. 1961-68; Dir. Barclays Bank D.C.O. 1961-71; Commr. Kenya Coastal Strip Inquiry 1961, Chair. Royal Overseas League 1962-68; Deputy Chair. Nat. Cttee. for Commonwealth Immigrants 1965-68; Gov. Queen Mary Coll., Univ. of London 1961-72; mem. Exec. Council, Royal Commonwealth Soc. for the Blind 1961-; Hon. LL.D. (Leeds). *Publication:* Transition in Africa from Direct Rule to Independence. *Leisure interests:* walking, gardening. *Address:* The Old Bakehouse, Cholsey, Oxfordshire, England; Douglas Cottage, Killichonan, Rannoch Station, Perthshire, Scotland. *Telephone:* Cholsey 651234; Bridge of Gaur 242.

ROBERTSON, John Monteath, C.B.E, PH.D., D.SC., LL.D., F.R.I.C., F.INST.P., F.R.S., F.R.S.E.; British professor of chemistry; b. 24 July 1900, Perthshire, Scotland; s. of William Robertson and Jane Monteath; m. Stella Kennard Nairn 1930; two s. one d.; ed. Perth Acad. and Glasgow Univ.; Commonwealth Fellow, U.S.A. 1928-30; mem. of staff, Davy Faraday Research Laboratory, The Royal Institution, London 1930-39; Senior Lecturer in Physical Chemistry, Univ. of Sheffield 1939-41; Scientific Adviser (Chemical) H.Q. Bomber Command, R.A.F. 1941-42; Gardiner Prof. of Chem. and Dir. of the Chemical Laboratories, Univ. of Glasgow 1942-70, Emer. Prof. 1970-; mem. Univ. Grants Cttee. 1960-64; mem. Turin Acad. of Sciences; Davy Medal, Royal Soc. 1960, Longstaff Medal, Chem. Soc. 1966, Paracelsus Medal, Swiss Chemical Soc. 1971; Pres. Chemical Soc. 1962-64; Hon. LL.D. (Aberdeen), Hon. D.Sc. (Strathclyde). *Publications:* Organic Crystals and Molecules 1953, Organic Structure Reports (Editor) 1940-53, 1957, 1960, 1961, Computing Methods and the Phase Problem (Editor) 1961, International Review of Science, Physical Chemistry Vol. II (Editor) 1972, 1975; about 300 research papers in Journal of the Chemical Society and Proceedings of the Royal Society, etc. *Leisure interest:* travel. *Address:* The University, Glasgow, W.2.; 42 Bailie Drive, Bearsden, Glasgow, Scotland (Home). *Telephone:* 041-942-2640 (Home).

ROBERTSON, Sir Rutherford Ness, Kt., C.M.G., D.SC., PH.D., F.R.S.; Australian botanist; b. 29 Sept. 1913, Melbourne; s. of Rev. J. Robertson; m. Mary Rogerson 1937; one s.; ed. St. Andrew's Coll., Christchurch, New Zealand, Sydney Univ., and St. John's Coll., Cambridge; Asst. Lecturer, later Lecturer in Botany, Sydney Univ. 1939-46; Senior Research Officer, later Chief Research Officer, Commonwealth Scientific and Industrial Research Org. (C.S.I.R.O.), Div. of Food Preservation 1946-59, mem. Exec. of C.S.I.R.O. 1959-62; Visiting Prof. Univ. of Calif. 1958-59; Prof. of Botany, Univ. of Adelaide 1962-69; Chair. Australian Research Grants Cttee. 1965-69; Master, Univ. House, Australian Nat. Univ., Canberra 1969-72; Dir. Research School of Biological Sciences 1972-78; Hon. Assoc. Sydney Univ. 1979-; Deputy Chair. Australian Science and Tech. Council 1977-; Fellow, Australian Acad. of Science 1954, Pres. 1970-74; Foreign Assoc. U.S. Acad. of Sciences 1962; Pres. Australian and New Zealand Assn. for the Advancement of Science 1965; Foreign mem. American Philosophical Soc. 1971, Hon. mem. Royal Soc. of New Zealand 1971, Hon. Foreign mem. A.A.A.S. 1973, Hon. Fellow St. John's Coll. Cambridge 1973; Clarke Memorial Medal, Royal Soc. of N.S.W. 1954; Farrer Memorial Medal 1963; A.N.Z.A.A.S. Medal 1968; Mueller Medal 1970; Burnet Medal 1975. *Publications:* Electrolytes in Plant Cells (co-author) 1961, Protons, Electrons Phosphorylation and Active Transport 1968. *Leisure interests:* riding, watercolours. *Address:* School of Biological Sciences, Sydney University, Sydney NSW 2006, Australia. *Telephone:* 692-2385.

ROBICHAUD, Hédard J., M.P.; Canadian politician; b. 1911; ed. Académie Sainte-Famille, Tracadie, Sacred Heart Coll. and Saint Joseph Univ.; Insp. of Fisheries, Dominion Govt. 1939-46; Dir. of Fisheries, N.B. 1946-52; M.P. 1953-68, Minister of Fisheries 1963-68; Senator 1968-; Lieut.-Gov. New Brunswick 1972-; Liberal. *Address:* Government House, Fredericton, New Brunswick, Canada.

ROBICHAUD, Hon. Louis Joseph, C.C., P.C., Q.C.; Canadian politician; b. 21 Oct. 1925, St. Anthony, Kent County, N.B.; s. of Amédée and Annie (née Richard) Robichaud; m. Lorraine Savoie 1951; three s. one d.; ed. Sacred Heart and Laval Univs.; private law practice 1951-60; mem. N.B. Legislature 1952-, Leader of Opposition 1958-60, 1970-; Premier of N.B. 1960-70, Attorney-Gen. 1960-65, Minister of Youth 1968-70; mem. Senate Dec. 1973-; numerous hon. degrees; Companion of the Order of Canada 1971; Liberal. *Address:* 2365 Georgina Drive, Ottawa, Ont., Canada.

ROBINSON, Sir Albert Edward Phineas, Kt., M.A.; British business executive; b. 1915; ed. Durban High School and Stellenbosch, London, Cambridge and Leiden Univs.; Barrister-at-Law, Lincoln's Inn; Imperial Light Horse, N. Africa 1940-43; mem. Johannesburg City Council and Leader United Party in Council 1945-48; United Party M.P., South African Parl. 1947-53; perm. resident in S. Rhodesia 1953; Dir. banks, building socs., several financial and industrial cos. 1953-61; Chair. Cen. African Airways Corpn. 1957-61; mem. Monckton Comm. 1960; High Commr., Fed. of Rhodesia and Nyasaland in the U.K. 1961-63; Chair. Johannesburg Consolidated Investment Co. Ltd. 1971-, Rustenburg Platinum Mines Ltd. 1971-; Dir. Anglo-American Corpn. of South Africa Ltd.; Dir. Anglo-American Corpn. Rhodesia Ltd. and others. *Address:* P.O. Box 590, Johannesburg, South Africa; Rumbaru Park, P.O. Box 2341, Rhodesia.

ROBINSON, (Arthur Napoleon) Raymond, M.A., LL.B., M.P.; Trinidad and Tobago barrister, economist and politician; b. 16 Dec. 1926, Calder Hall; s. of James Andrew Robinson and Emily Isabella Robinson; m. Patricia Jean Rawlins 1961; one s. one d.; ed. Bishop's High School, Tobago, St. John's Coll., Oxford and Innter Temple, London; M.P. West Indies 1958-61; Rep. of Trinidad and Tobago Council of Univ. of West Indies 1959-61; Minister of Finance and Gov. for Trinidad Board of Govs. of IMF and IBRD 1961-67; Deputy Leader, People's National Movement 1967-70; Minister of External Affairs 1967-68; Consultant to the Foundation for the Establishment of an Int. Criminal Court 1971; Chair. Democratic Action Congress 1971-; Rep. for Tobago East, House of Reps. 1976–;Visiting scholar, Harvard Univ. 1971; Studentship Prize, Inner Temple; Distinguished Int. Criminal Law Award 1977. *Publications:* The New Frontier and the New Africa 1961, Fiscal Reform in Trinidad and Tobago 1966, The Path of Progress 1967, The Teacher and Nationalism 1967, The Mechanics of Independence 1971 and contributions to Encyclopaedia Britannica. *Leisure interests:* walking, swimming, travel, reading, modern music. *Address:* 21 Ellerslie Park, Maraval, Trinidad; Robinson Street, Scarborough, Tobago, Trinidad and Tobago. *Telephone:* 62-25544 (Trinidad); 639-2281 (Tobago).

ROBINSON, Sir (Edward) Austin (Gossage), Kt., C.M.G., O.B.E., F.B.A., M.A.; British economist; b. 20 Nov. 1897, Farnham; s. of Rev. A. G. Robinson (Canon of Winchester Cathedral) and Edith (née Sidebotham) Robinson; m. Joan Maurice (*q.v.* Joan Robinson) 1926; two d.; ed. Marlborough Coll. and Christ's Coll., Cambridge; Fellow of Corpus Christi Coll. Cambridge 1923-26; Tutor to H.H. the Maharajah of Gwalior 1926-28; Univ. Lecturer Cambridge 1929; Fellow of Sidney Sussex Coll. Cambridge 1931-; mem. Econ. Section War Cabinet 1939-42; Chief Econ. Adviser and Head of Programmes Div., Ministry of Production 1942-45; mem. Reparations Mission, Moscow and Berlin 1945; Econ. Adviser, Board of Trade 1945-46; Cen. Econ. Planning Staff 1947-48; mem. U.K. Del. to OEEC 1948; Reader in Econs. Univ. of Cambridge 1949, Prof. of Econs. 1950-65, Emer. 1966-; Sec. Royal Econ. Soc. 1946-72; Treas. Int. Econ. Assn. 1950-59, Pres. 1959-62; mem. Exec. Council Dept. Scientific and Industrial Research 1954-59; OEEC Adviser on Italian Devt. 1954-58; Chair. OEEC Energy Advisory Comm. 1957-60; Dir. of Econs., Ministry of Power 1967-68; Joint Ed. The Economic Journal 1944-72. *Publications:* The Structure of Competitive Industry 1932, Monopoly 1940; Editor or Joint Editor: Economic Consequences of the Size of Nations 1960, Economic Development of Africa South of the Sahara 1963, Problems in Economic Development 1965, The Economics of Education (with J. E. Vaizey) 1966, Backward Areas in Advanced Countries 1969, Economic Development in South Asia 1970, Economic Prospects of Bangladesh 1973. *Leisure interest:* visiting developing countries. *Address:* 62 Grange Road, Cambridge, England.

ROBINSON, Eric Laidlaw; Australian politician and company director; b. 18 Jan. 1929, Brisbane; s. of A. N. Robinson and Mrs. Robinson; m. Narelle Jones 1965; ed. Slade School, Warwick, Queensland; Dir. of various cos. in marine and sporting goods; Chair. Playground and Recreation Assn. of Queensland 1962-67, Queensland Freedom from Hunger Campaign 1966-68; fmr. [redacted] Brisbane Chamber of Commerce; Chair. and Man. Dir. Robinson Holdings Pty. Ltd.; Pres. Queensland Div. of Liberal Party 1968-73; mem. for McPherson, Qld., House of Reps. 1972-; Minister for the Capital Territory 1975-76, for Posts and Telecommunications 1976-77, for Finance Dec. 1977-, Minister Assisting the Treasurer 1976-77; Leader Australian Del. IMF and World Bank Annual Meetings 1978, Commonwealth Finance Ministers Meeting 1978; Liberal. *Leisure interests:* fishing, boating and water-skiing. *Address:* Parliament House, Canberra, A.C.T. 2600, Australia. *Telephone:* (062) 73 1091.

ROBINSON, Forbes; British opera singer; b. 21 May 1926, Macclesfield, Cheshire; s. of Wilfred and Gertrude Robinson; m. Marion Stubbs 1952; two d.; ed. Kings School, Macclesfield, St. Pauls Coll., Cheltenham, and Loughborough Coll.; trained in Leicester, Manchester and at La Scala, Milan 1952-53; Debut, Covent Garden 1954, and Promenade Concerts 1957; Principal Bass, Royal Opera House, Covent Garden 1954-; has sung in opera and concerts in Europe Argentina, Canada and the U.S.A. and many festivals in Europe, also in four television operas and own radio series; created title role King Priam (Tippett) and was the first to play the speaking role of Moses in Moses and Aaron (Schönberg) in English; first British singer to sing Don Giovanni at Covent Garden for over 100 years 1970; guest artist with Handel Opera, Sadler's Wells Opera, Scottish Opera and Welsh Nat. Opera; won Great Caruso Voice Contest 1952; Opera Medal 1963. *Leisure interests:* swimming, walking. *Address:* 225 Princes Gardens, London, W.3, England. *Telephone:* 01-992 5498.

ROBINSON, James D., III, M.B.A.; American company executive; b. 19 Nov. 1935, Atlanta, Ga.; m. Bettye Bradley; one s. one d.; ed. Georgia Inst. of Tech., Harvard Graduate School of Business Admin.; Officer, U.S. Naval Supply Corps 1957-59; various depts. of Morgan Guaranty Trust Co. 1961-66, Asst. Vice-Pres. and Staff Asst. to Chair. and Pres. 1967; Gen. Partner, Corp. Finance Dept., White, Weld & Co. 1968; Exec. Vice-Pres. American Express Co. 1970-75, with responsibility for Travel-Related Services Group 1973-75, mem. Chairman's Advisory Council 1973-75, a Dir. April 1975-, Pres. American Express Co. 1975-77, Chair. of Board and Chief Exec. Officer April 1977-; Pres. and Chief Exec. Officer (Banking), American Express Int. Banking Corpn. 1971-73, Vice-Chair. 1973-75, Dir. 1973-; Chair. American Express Credit Corpn. 1973-75; now also Dir. various subsidiaries; Dir. Fireman's Fund American Insurance Co., Coca-Cola Co., Union Pacific Corpn., Trust Co. of Ga., Bristol Myers Co.; Pres., mem. Board of Man., mem. Exec. Cttee., Memorial Hosp. for Cancer and Allied Diseases; mem. Board of Trustees, Memorial Sloan-Kettering Cancer Center, Foxcroft School; mem. Council on Foreign Relations, Rockefeller Univ. Council. *Address:* American Express Company, New York, N.Y. (Office); 435 East 52nd Street, New York, N.Y. 10022 (Home); and c/o Property Management, Cottonwood 1475, Sun Valley, Ida. 83353, U.S.A.

ROBINSON, Prof. Joan Violet; British economist; b. 31 Oct. 1903; m. Sir Austin Robinson (*q.v.*) 1926; two d.; ed. St. Paul's Girls' School, London and Girton Coll., Cambridge; Asst. Lecturer in Econs., Cambridge Univ. 1931, Lecturer 1937-49, Reader 1949-65, Prof. 1965-71; retd. 1973; Special Prof. Stanford Univ., Spring 1969. *Publications:* Economics of Imperfect Competition 1933, Essays in the Theory of Employment 1937, Introduction to the Theory of Employment 1937, Essay on Marxian Economics 1942, Collected Economic Papers Vols. I to V 1951-79, The Rate of Interest and Other Essays 1952, The Accumulation of Capital 1956, Essays in the Theory of Economic Growth 1962, Economic Philosophy 1963, Economics: An Awkward Corner 1966, The Cultural Revolution in China 1969, Freedom and Necessity 1970, Economic Heresies 1971, Introduction to Modern Economics (with John Eatwell) 1973, Modern Economics (contributor) 1978. *Address:* 62 Grange Road, Cambridge, England.

ROBINSON, John Armstrong, C.M.G.; British diplomatist; b. 18 Dec. 1925. H.M. Forces 1944-46; Foreign Office 1949-50; Second Sec., Delhi 1950-52; Foreign Office 1952-53; Helsinki 1953-56; Second, later First Sec., Paris 1956-58; Foreign Office 1958-61; First Sec., U.K. Del. to EEC 1962-67; Counsellor, Foreign Office 1967; Head of European Econ. Integration Dept., FCO 1968-70; mem. team of nine officials for negotiations on U.K. entry into EEC 1970-71; Asst. Under-Sec. of State, FCO 1971-73; Amb. to Algeria 1974-78. *Address:* c/o Foreign and Commonwealth Office, London, S.W.1, England.

ROBINSON, Rt. Rev. John Arthur Thomas, M.A., PH.D., B.D., D.D.; British ecclesiastic and writer; b. 15 June 1919, Canterbury; s. of Rev. Canon A. W. and Mrs. Beatrice Robinson; m. Ruth Grace 1947; one s. three d.; ed. Marlborough Coll., Jesus and Trinity Colls., Cambridge, and Westcott House, Cambridge; Curate, St. Matthew, Moorfields, Bristol 1945-48; Chaplain, Wells Theological Coll. 1948-51; Fellow and Dean, Clare Coll., Cambridge 1951-59; Asst. Lecturer in Divinity, Cambridge 1953-54, Lecturer 1954-59; Lecturer in Theology, Trinity Coll., Cambridge 1969-, Fellow and Dean of Chapel 1969-; Examining Chaplain to Archbishop of Canterbury 1953-59; Six Preacher, Canterbury Cathedral 1958-68; Bishop Suffragan of Woolwich 1959-69; Asst. Bishop of Southwark 1969-; Proctor in Convocation, Diocese of Southwark 1960-70; Hulsean Lecturer, Cambridge Univ. 1970. *Publications:* In the End, God . . . 1950, The Body 1952, Jesus and His Coming 1957, On Being the Church in the World 1960, Christ Comes In 1960, Liturgy Coming to Life 1960, Twelve New Testament Studies 1962, Honest to God 1963, The Honest to God Debate 1963, Christian Morals Today 1964, The New Reformation? 1965, But That I Can't Believe! 1967, Exploration into God 1967, Christian Freedom in ■ Permissive Society 1970, The Difference in Being ■ Christian Today 1972, The Human Face of God 1973, Redating the New Testament 1976, Can We Trust the New Testament? 1977, Wrestling with Romans 1979. *Address:* Trinity College, Cambridge, England. *Telephone:* Cambridge 58201.

ROBINSON, John Foster, C.B.E., D.L., T.D.; British business executive; b. 2 Feb. 1909, Bristol; s. of late Sir Foster Gotch Robinson and late Marguerite Victoria M. Clarke; m. Margaret Paterson 1935 (deceased); two s. two d.; ed. Harrow and Christ Church, Oxford; Dir. E. S. and A. Robinson Ltd. 1943-48, Man. Dir. 1948-58, Deputy Chair. 1958-61, Chair. E. S. and A. Robinson (Holdings) Ltd. 1961–; Deputy Chair. Dickinson Robinson Group Ltd. 1966-68, Chair. 1968-74, Hon. Vice-Pres. 1974-; Chair. John Dickinson and Co. Ltd. 1968-74; Dir. Eagle Star Insurance Co. Ltd. 1968-; mem. South-West Regional Board Nat. Westminster Bank Ltd. 1969-76; Dir. Bristol and West Building Soc., Nat. Westminster Bank Ltd. *Leisure interests:* shooting, fishing, cricket, golf. *Address:* St. George's Hill, Easton-in-Gordano, Bristol, BS20 0PX, England.

ROBINSON, Rt. Hon. Kenneth, P.C.; British politician and administrator; b. 19 March 1911, Warrington; s. of late Clarence Robinson and of Marion Robinson (née Linnell); m. Helen Elizabeth Edwards 1941; one d.; ed. Oundle School; Insurance Broker, Lloyds' 1927-40; Naval Service 1941-46; Company Sec. 1946-49; M.P. 1949-70; Asst. Whip 1950-51, Opposition Whip 1951-54; Minister of Health 1964-68; Minister for PLanning and Land, Ministry of Housing and Local Govt. Nov. 1968-Oct.1969; Vice-Pres. Assen. for Mental Health 1958-; mem. Exec. Cttee. The Nat. Trust 1951-64, 1971-77; Chair. English Nat. Opera 1972-77, Arts Council of Great Britain 1977-; Man. Dir. Personnel, British Steel Corpn. 1971-74; Chair. London Transport Exec. 1975-78; Fellow Chartered Inst. of Transport, Hon. Fellow Royal Coll. Gen. Practitioners; Labour. *Publications:* Wilkie Collins, a Biography 1951, Policy for Mental Health 1958, Patterns of Care 1961, Look at Parliament 1962. *Address:* 12 Grove Terrace, London, N.W.5, England.

ROBINSON, Kenneth Ernest, C.B.E., M.A., D.LITT., LL.D., F.R.HIST.S.; British historian and university administrator; b. 9 March 1914, London; s. of late Ernest and Isabel Robinson; m. Stephanie Christine S. Wilson 1938; one s. one d.; ed. Monoux Grammar School, Walthamstow, Hertford Coll., Oxford, and London School of Economics; entered Colonial Office 1936; Asst. Sec. 1946-48, resigned; Fellow of Nuffield Coll. 1948-57, Librarian 1951-57; Reader in Commonwealth Govt., Oxford 1948-57; Leverhulme Research Fellow 1952-53; Visiting Lecturer, School of Advanced Int. Studies, Johns Hopkins Univ. 1954, Duke Univ. 1963, Acadia Univ. 1963; part-time mem., Directing Staff, Civil Service Selection Board 1951-56, Chair. Panel 1972-77; Prof. of Commonwealth Affairs and Dir. of Inst. of Commonwealth Studies, Univ. of London 1957-65; mem. Colonial Econ. Research Cttee. 1949-62, Colonial Social Science Research Council 1958-62, Council of Overseas Devt. Inst. 1960-65, Royal Inst. of Int. Affairs 1962-65, Int. African Inst.1960-65, African Studies Assen. of U.K. 1963-65, 1978-, Assen. of Commonwealth Univs. 1967-69, Royal Asiatic Soc. Hong Kong Branch 1965-69, Hong Kong Man. Assen. 1966-72, Council, Univ. of Cape Coast 1972-74, Inter-Univ. Council for Higher Educ. Overseas 1973-, Royal Commonwealth Soc. 1974-; Gov. L.S.E. 1959-65; Vice-Chancellor, Univ. of Hong Kong 1965-72; Hallsworth Resident Fellow, Manchester Univ. 1972-74, Callendar Lecturer, Aberdeen Univ. 1979; Dir. Survey of Resources for Commonwealth Studies, Univ. of London 1974-75; J.P. Hong Kong 1967-72; Corresp. mem. Acad. des Sciences d'Outre-Mer, Paris; Hon. LL.D. (Chinese Univ. of Hong Kong) 1969; Hon. Dr. (Open Univ.) 1978; Editor Journal of Commonwealth Political Studies 1961-65; Special Commonwealth Award, Ministry of Overseas Devt. 1965. *Publications:* Africa Today (co-author) 1955, Africa in the Modern World (co-author) 1955, Five Elections in Africa (with W. J. M. Mackenzie) 1960, Essays in Imperial Government (with A. F. Madden) 1963, The Dilemmas of Trusteeship 1965, A Decade of the Commonwealth (with W. B. Hamilton and C. Goodwin) 1966, University Co-operation and Asian Development (co-author) 1967, L'Europe au XIXe et XXe siècles, Vol. VII (co-author) 1967. *Address:* The Old Rectory, Church Westcote, Oxford, OX7 6SF; 10c St. Augustine's Road, London, NW1 9RN, England. *Telephone:* Shipton under Wychwood 830586; 01-485 1198.

ROBINSON, Raymond (*see* Robinson, Arthur Napoleon Raymond).

ROBLES, Marco Aurelio; Panamanian politician; b. 8 Nov. 1905; former govt. official; Minister of Govt. and Justice 1960-64; Pres. of Panama 1964-68. *Address:* Panama City, Panama.

ROBSON, Donald, B.COMM.; British banker; b. 29 Oct. 1910, Yorkshire; s. of Herbert William Robson and Ida (née Sanderson); m. Doreen Elizabeth Buzzel 1956; two s.; ed. Malton Grammar School, London Univ.; joint Gen. Man. Westminster Bank Ltd. 1959-67; Man. Dir. Int. Commercial Bank Ltd. 1967-76; Chair. Guinness Mahon and Co. Ltd. 1976-, resgnd. 1978, Dir. 1978-. *Leisure interests:* sailing, French. *Address:* c/o Guinness Mahon and Co. Ltd., 32 St. Mary At Hill, London, E.C.3, England. *Telephone:* 01-623 9333.

ROBSON, Dame Flora McKenzie, D.B.E.; British actress; b. 28 March 1902, South Shields, Durham; d. of D. M. Robson and Eliza McKenzie; ed. Palmers Green High School, London; D.Litt. h.c. (Durham, London, Oxford Univs. and Univ. of Wales); Hon. Fellow, St. Anne's Coll., Oxford 1975, Sunderland Tech. Coll. 1975; Orders of White Lion and White Rose, Finland. Appearances include Will Shakespeare 1921 (début), Desire Under the Elms 1931, Dangerous Corner 1932, For Services Rendered 1932, All God's Chillun 1932, Shakespeare production at the Old Vic 1932-33; plays: Ladies in Retirement, Black Chiffon and Macbeth in U.S.A. 1939-50; The House by the Lake 1956-58, Ibsen's Ghosts 1958-59, The Aspern Papers 1959-60, Time and Yellow Roses 1961, The Corn is Green 1961, Close Quarters 1963, John Gabriel Borkman 1963, Importance of Being Earnest 1968, 1975, The Old Ladies 1969 in London; Brother and Sister 1967 on tour; Ring Round the Moon 1968 in London; also films in London and Hollywood 1931-, including Wuthering Heights 1939, Black Narcissus 1947, Innocent Sinners 1947, Young Cassidy 1965, Alice in Wonderland 1972, Dominique 1977, Les Miserables 1978, A Man Called Intrepid, Oresteia of Aeschylus. *Leisure interests:* gros-point needlework, reading. *Address:* 7 Wykeham Terrace, Dyke Road, Brighton, Sussex, BN1 3FF, England.

ROBSON, William Alexander, PH.D., LL.M.; British jurist and political scientist; b. 14 July 1895, London; s. of late Jack Robson; m. Juliette Alvin 1929; two s. one d.; ed. London School of Economics and Political Science; Barrister; Founder and Joint Ed. The Political Quarterly 1930-75; Principal, Mines Dept. 1940-42, Ministry of Fuel and Power 1942-43; Asst. Sec. Air Ministry 1943, Civil Aviation 1945; Prof. of Public Admin L.S.E. 1947-62, Emer. 1962–; mem. Council Town and Country Planning Assn., Vice-Pres. Inst. of Public Admin., Dept. Cttee. Greater London Planning Admin., Cttee. on training in Public Admin. for Overseas Countries; Pres. Int. Political Science Assn. 1952-55; Vice-Pres. Political Studies Assn.; Chair. Greater London Group; Consultant to Govts. of Lebanon, Nigeria, Turkey, Japan, Isle of Man, UNICEF, State Charter Revision Comm. for New York and Marshall Inquiry on Greater London; Hon. Fellow, L.S.E.; Dir. h.c. (Paris, Lille, Grenoble, Algiers); Hon. D.Litt. (Durham and Manchester Univs.); Hon. D.Soc.Sc. (Birmingham Univ.). *Publications:* The Town Councillor (with Rt. Hon. C. R. Attlee), Justice and Administrative Law, The Development of Local Government, The Relation of Wealth to Welfare, The Law of Local Government Audit, A Century of Municipal Progress, Civilization and the Growth of Law, The British Civil Servant, Public Enterprise, The Government and Misgovernment of London, Social Security, The British System of Government, Planning and Performance, The War and the Planning Outlook, Population and the People, British Government since 1918, Problems of Nationalised Industry, The University Teaching of Political Science, Great Cities of the World, The Civil Service in Britain and France, Nationalised Industry and Public Ownership, The Governors and the Governed, Local Government in Crisis, Politics and Government at Home and Abroad, Man and the Social Sciences, Welfare State and Welfare Society. *Leisure interests:* walking, swimming, theatre, cinema, reading. *Address:* 48 Lanchester Road, London, N.6, England. *Telephone:* 01-883 1331.

ROCA, Eduardo Alejandro; Argentine lawyer and diplomatist; b. 15 Dec. 1921, Buenos Aires; s. of Marcos Roca and María Teresa Hunter; m. Magdalena Figueroa 1947; three s. three d.; ed. School of Law, Univ. de Buenos Aires; has specialized in commercial law, insurance and financial matters; fmr. Under-Sec. of Justice, Inspector of Corpns.; Rep. of Argentina on Council of OAS 1966-68; Amb. to U.S.A. Sept. 1968-Oct. 1969; Chair. Chamber of Corpn. of Buenos Aires 1970-73; Chair. Board Siemens Argentina S.A. *Address:* Sarmiento 643, Buenos Aires (Office); Santa Fé 1575, Buenos Aires, Argentina (Home). *Telephone:* 45-3451 (Office); 42-4294 (Home).

ROCA CALDERÍO, Blas; Cuban politician; b. 1908, Manzanillo, Oriente; ed. Grammar School; former cobbler; official Cuban Shoe Workers' Union 1929-30; Sec.-Gen. Partido Comunista de Cuba (IC Section) 1934-39; del. Constituent Assembly 1939-40; M.P. 1940-52; Sec.-Gen. Partido Popular Socialista 1942-60; mem. Cen. Cttee., Political Bureau and Secr. Partido Comunista; Dir. Hoy 1962-65; Vice-Pres. Council of State, Pres. Nat. Ass. of People's Power 1976-. *Publications:* Los Fundamentos del Socialismo en Cuba, Aclaraciones (3 vols.), Martí Revolucionario Radical (pamphlet 1948), Veneno en "La Quincena" 1961. *Address:* Prado y Teniente Rey, Havana, Cuba.

ROCHA-E-SILVA, Maurício, DR.MED.; Brazilian pharmacologist and biochemist; b. 1910, Rio de Janeiro; s. of João Olavo da Rocha e Silva and Alzira Couto Rocha e Silva; one s. two d.; ed. Univ. do Rio de Janeiro; Research Asst., Faculty of Sciences of Univ. de São Paulo 1935-37; Asst. Instituto Biológico, São Paulo 1937-42, Head of Dept. of Biochemistry and Pharmacodynamics 1942-; Lecturer, Univs. do Brasil and de São Paulo 1952; Prof. Pharmacology, Univ. de São Paulo 1957-; Co-founder and Pres. Brazilian Assn. for Advancement of Science; Fellow of Guggenheim Foundation, New York for research work in U.S.A. 1940-42; Fellow of British Council for research work in London 1946-47; Fogarty Scholar, Nat. Inst. of Health, Bethesda, Md. 1973-74; full mem. Brazilian Acad. of Sciences; Hon. mem. American Acad. of Allergy. *Publications:* Histamine and Anaphylaxis 1946, Bradykinin 1949, Histamine, its Role in Anaphylaxis and Allergy 1955, Histamine and Antihistaminics (section of book) 1966, Foundations of Pharmacology 1961, 1968, 1969, 1973, Kinin Hormones 1970, Chemical Mediators of Acute Inflammatory Reaction 1972, Fondamenti di Farmacologia (Italian edn.) 1974, A Bradykinin Anthology 1975, Histamine and Antihistaminics (part II). *Leisure interests:* photography, painting, travel. *Address:* Department of Pharmacology, Universidad de São Paulo, Ribeirão Preto, São Paulo, Brazil.

ROCHDALE, Viscount, cr. 1960, 2nd Baron, cr. 1913; **John Durival Kemp,** O.B.E., T.D., D.L., B.A.; British industrialist; b. 5 June 1906, Rochdale, Lancs.; m. Elinor Dorothea Pease 1931; one s.; ed. Eton Coll., and Trinity Coll., Cambridge; Man. and later Dir., Kelsall & Kemp Ltd., Rochdale 1928-39; served with British Expeditionary Force in France 1939-40; attached to U.S. Forces in Pacific with rank of Colonel 1944; later with Combined Operations Command, India; Brigadier 1945; mem. Cen. Transport Consultative Cttee. 1952-57; Pres. Nat. Union of Mfrs. 1953-56; Vice-Pres. British Productivity Council 1955-56; Gov. B.B.C. 1954-59; Dir. Consett Iron Co. 1956-67; Chair. The Cotton Board 1957-62; Chair. Kelsall & Kemp Ltd., Rochdale 1950-71, Harland and Wolff Ltd., Belfast 1971-75; Dir. Nat. and Commercial Banking Group Ltd. 1971-77; Chair. Cttee. of Enquiry into the Major Docks of Great Britain 1961-62; Deputy Chair. William Glyn's Bank Ltd. 1973-77; Pres. British Legion (North Western Area) 1954-61, Econ. League 1963-69, North-West Industrial Devt. Assn. 1974; mem. Western Hemisphere Exports Council 1953-64; mem. Past Upper Bailiff, Worshipful Co. of Weavers; Chair. Nat. Ports Council 1963-67, Cttee. of Inquiry into Shipping Industry 1967-70; Chair. Rosehill Arts Trust Ltd. 1971. *Leisure interests:* forestry, gardening. *Address:* Lingholm, Keswick, Cumbria, England. *Telephone:* Keswick 72003.

ROCHE, (Eamonn) Kevin; American architect; b. 14 June 1922, Dublin, Ireland; s. of Eamon and Alice (Harding) Roche; m. Jane Tuohy 1963; two s. three d.; ed. Nat. Univ. of Ireland and Illinois Inst. of Technology; with Eero Saarinen & Assocs. 1950-66, Chief Designer 1954-66; Partner, Kevin Roche, John Dinkeloo and Assocs. 1966-; mem. Nat. Inst. of Arts and Letters, American Acad. in Rome 1968-71; mem. Fine Arts Comm., Washington, D.C.; Academician Nat. Acad. of Design; mem. Board of Trustees, Woodrow Wilson Int. Center for Scholars, Smithsonian Inst.; Brunner Award, Nat. Acad. of Arts and Letters 1965, Brandeis Univ. Creative Arts Award 1967, ASIO 1976 Total Design Award, Académie d'Architecture 1977 Grand Gold Medal and other awards. *Major works include:* IBM World Fair Pavilion, New York; Oakland Museum; Rochester Inst. of Technology; Ford Foundation Headquarters, New York; Fine Arts Center, Univ. of Mass.; Power Center for the Performing Arts, Univ. of Mich.; Creative Arts Center, Wesleyan Univ., Middletown, Conn.; Nat. Fisheries Center and Aquarium, Washington, D.C. (with Charles Eames, *q.v.*); Coll. Life Insurance Co. of America Headquarters, Indianapolis; Fed. Reserve Bank of New York, New York; Major Expansion Program, Master Plan, Metropolitan Museum of Art, New York; Fiat H.Q., Turin, Italy; Office Complex, UN Devt. Corpn., New York; Denver Center for the Performing Arts, Denver, Colo.; John Deere & Co., West Office Bldg., Moline, Ill.; Union Carbide Corpn. World HQ, Conn.; General Foods Corpn. Headquarters, Rye, New York; John Deere Insurance Co. Headquarters, Moline, Ill.; Bell Telephone Labs. Expansion, Holmdel, N.J. *Address:* Kevin Roche, John Dinkeloo & Associates, 20 Davis Street, Hamden, Conn. 06517, U.S.A. *Telephone:* 203-777-7251.

ROCHE, Emile; French international civil servant; b. 24 Sept. 1893. Journalist, Editor of Cri des Flandres 1927, Dir. of La république, 1929-39 La semaine economique et financière 1948-50; Pres. Radical-Socialist Fed. of the North 1932-56; mem. of Econ. Council 1951-, Pres. 1954-59; mem. French Econ. and Social Council 1959, Pres. 1959-74, Hon. Pres. 1974-; Pres. Econ. and Social Cttee. of EEC and of Euratom 1962-64; Grand Croix Légion d'honneur 1976. *Publications:* Cailloux que j'ai connu, L'or n'est plus roi, On a voté ... et maintenant, Perspectives franco-marocaines, L'ère des métamorphoses. *Address:* 92 Avenue Henri-Martin, 75116 Paris, France.

ROCHE, James M.; American motor executive; b. 16 Dec. 1906, Elgin, Ill.; s. of Thomas E. and Gertrude (Bull) Roche; m. Louise McMillan 1929; two s. one d.; ed. La Salle Univ., Chicago; General Motors 1927-; Statistician, Cadillac Sales and Service Branch, Chicago 1927; Head of Business Man. Dept., Cadillac Motor Car Div., Detroit 1935; Gen. Sales Manager, Cadillac Motor Car Div. 1950-57, Gen. Manager 1957-60; Vice-Pres. Gen. Motors 1957-60, Vice-Pres. (Gen. Motors Marketing Staff) 1960-62, Exec. Vice-Pres. and Dir. 1962-65; Pres., Chief Operating Officer, Chair. Exec. Cttee., Dir. and mem. Finance Cttee. Gen. Motors 1965-67, Chair. 1967-72, now Dir.; Dir. Pepsico Inc., Jack Eckerd Corpn., New York Stock Exchange. *Leisure interests*: reading, music, fishing. *Address* 425 Dunston Road, Bloomfield Hills, Mich. 48013, U.S.A.

ROCHE, Jean Casimir Henri Hilaire, D. en MED., D. es SC.; French university professor; b. 14 Jan. 1901, Sorgues; s. of Gaston Roche and Marie Lointier; m. Elsa Barman 1937; three s. (one deceased) two d. (one deceased); Asst. in Physiology, Montpellier Univ. 1920-23; Lecturer in Biochemistry, Univ. of Strasbourg 1925-30; Prof. of Biochemistry, Univ of Lyon 1930-31, Marseilles Univ. 1931-47; Hon. Prof. 1948; Dir. of Laboratory Comparative Biochemistry, Ecole des Hautes Etudes, Paris 1941-; Prof of Biochemistry, Collège de France, Paris 1947-72; Rector, Univ. of Paris 1961-69; Dir. of Laboratoire Maritime du Collège de France, Concarneau, Brittany and Pres. Inst. des Hautes Etudes, Tunis (Univ. of Paris); Rector, Gen. Del. of Minister of Educ. to Univ. Int. Affairs 1970-72; Vice-Pres. Int. Assen. of Univs.; Pres. Soc. of Friends of Univs. of Paris; mem. Acad. des Sciences, Acad. de Médecine; Hon. mem. Accademia dei Lincei (Rome), Royal Acad. of Sciences, Sweden, Denmark, Nat. Acad. of Sciences (Argentina), Belgian Acad. of Medicine, Bulgarian Acad., Hungarian Acad., Romanian Acad.; Hon. D.C.L. (Oxford), Hon. D.SC. (London, Frankfurt, New York, Bucharest, Montreal, Southampton, Pamplona, Bradford, Boston), D. Med.(Naples, Liège, Buenos Aires, São Paulo-Campinos), D. Phil. (Tel Aviv). *Publications*. Essai sur la biochimie général et comparée des pigments respiratoires 1936, Précis de chimie 1934. *Leisure interest*: archaeology. *Address*: 6 boulevard Jourdan, 75014 Paris, France. *Telephone:* 589-92-60.

ROCHE, John P., A.B., A.M. PH.D., LITT.D.; American professor of politics and history; b. 7 May 1923, Brooklyn, N.Y.; s. of Walter John and Ruth Pearson Roche; m. Constance Ludwig 1947; one d; ed. Hofstra Coll. and Cornell Univ.; Instructor, than Assoc. Prof. of Political Science, Haverford Coll. 1949-56; Prof. of Politics and History, Brandeis Univ. 1956-73, Chair. Dept of Politics 1956-59, 1961-65, Dean, Faculty of Arts and Sciences 1958-60, Henry R. Luce Prof. of Civilization and Foreign Affairs and Academic Dean, Fletcher School of Law and Diplomacy 1973-, Acting Dean 1978-79; Visiting appts.: Swarthmore Coll., Cornell and Columbia Univs. and M.I.T. and Lecturer, Univ. of Aix-en-Provence; Fellow, Fund for the Advancement of Educ. 1954-55, Rockefeller Foundation 1961-62, 1965-66; Nat. Chair. Americans for Democratic Action 1962-65; Consultant, Vice-Pres. Hubert H. Humphrey and U.S. Dept. of State 1964-66; Special Consultant to the Pres. of the U.S. 1966-68; mem. Presidential Comm. on Int. Radio Broadcasting 1972-73; Trustee, Woodrow Wilson Center for Scholars, Smithsonian Inst., Dubinsky Foundation; mem. U.S. Board for Int. Broadcasting 1974-78; mem. Council of Foregin Relations. *Publications*. The Dynamics of Democratic Government (with Murray S. Stedman, Jr.) 1954, Aspects of Liberty 1958, Courts and Rights 1961, The American Image: the Political Process (with Leonard W. Levy) 1963, The Quest for the Dream: The Development of Civil Liberties and Human Relations in Modern America 1963, Shadow and Substance: Essays on the Theory and Structure of Politics 1964, The Crossroad Papers 1965, The Dynamics of Modern Government (with Meehan and Stedman) 66, John Marshall: Major Opinions and Other Writings (Editor) 1967, Sentenced to Life: Reflections on Politics, Education and Law 1974, The American Revolution—A Heritage of Change (co/author) 1975, The Vietnam Legacy (contributor) 1976, American Nationality 1607-1978: An Overview 1979; numerous articles on law and politics. *Address:* Fletcher School of Law and Diplomacy, Medford, Mass. 02155 (Office); 15 Bay State Road, Weston, Mass. 02193, U.S.A. (Home). *Telephone*: 617-628-5000 (Office), 617-899-5085 (Home).

ROCHE, Kevin (*see* Roche, Eamonn Kevin).

ROCHE, Marcel M.D., M.A.; Venezuelan parasitologist; b. 15 Aug. 1920, Caracas; s. of Luis and Beatrice Roche; m. 1st María Teresa Rolands 1948 (deceased), one s. three d.; m. 2nd Flor Blanco-Fombona 1972; ed. Coll. Sainte Croix de Neuilly, St. Joseph's Coll., Philadelphia, Johns Hopkins Univ., Baltimore, and Harvard School of Medicine, Boston; Intern, Johns Hopkins Hospital, Baltimore 1946-47; Asst. Resident, Peter Bent Brigham Hospital, Boston 1947-48; Research Fellow, Harvard School of Medicine, Boston 1948-50; Research work, New York Public Health Research Inst. 1950-51; Dir. Luis Roche Inst. for Medical Research 1952-58; Dir. Venezuelan Inst. for Scientific Research 1958-69, Chief of Dept. of Physiopathology 1958-; Pres. Consejo Nacional de Investigaciones Científicas y Tecnológicas 1969-72; Simón Bolívar Prof. of Latin American Studies, Univ. of Cambridge 1970-71; D.Sc. (h.c.). *Leisure interest*: playing the cello. *Address* Avenida Luis Roche 41, Altamira, Caracas, Venezuela. *Telephone*: 322366.

ROCHESTER, George Dixon, PH.D., F.R.S., F.INST.P. British professor of physics; b. 4 Feb. 1908, Wallsend; s. of Thomas and Ellen Rochester; m. Idaline Bayliffe 1938; one s. one d.; ed. Wallsend Grammar School, Univs. of Durham, Stockholm and California; Earl Grey Scholar, Durham Univ. 1926-29; Earl Grey Fellow, Stockholm Univ. 1934-35; Commonwealth Fund Fellow Univ. of Calif. 1935-37; Asst. Lecturer, Manchester Univ. 1937-46, Lecturer 1946-49, Senior Lecturer 1949-53, Reader 1953-55, Prof. of Physics 1955-73, Emer. 1973-; Scientific Adviser in Civil Defence, N.W. Region 1952-55; mem. Council of Council for Nat. Academic Awards (CNAA) 1964-74; Second Pro-Vice-Chancellor, Durham Univ. 1967-69, Pro-Vice-Chancellor 1969-70; Hon D.Sc. (Newcastle) 1973, (CNAA) 1975, Hon. Fellowship (Newcastle-upon-Tyne Polytechnic) 1977; C.V. Boys Prizeman 1956; Symons Memorial Lecturer, Meteorological Soc. 1962. *Publications:* (with J. G. Wilson) Cloud Chamber Photographs of the Cosmic Radiation 1952; also scientific papers on elementary particles, cosmic rays and spectroscopy. *Leisure interests:* odd jobs, reading, walking, television. *Address:* 18 Dryburn Road, Durham, DH1 5AJ, England. *Telephone:* Durham 64796.

ROCHET, Waldeck; French agriculturist and politician; b. 5 April 1905, Sainte-Choix; Market gardener; Deputy to Nat. Ass. 1936-40, 1954-72; Del. to Provisional Consultative Ass. 1944; Pres. Agricultural Cttee., Nat. Ass. 1946-47; Dir. of La Terre; Pres. Communist Party in Nat. Ass. 1958-59, 1962-64; Deputy Sec.-Gen. of Communist Party until 1964, Sec.-Gen. 1964-72, Hon. Pres. 1972–.*Publications:* L'Avenir du parti communiste français 1969, Ecrits politiques 1956-1969 1976. *Address:* 14 rue Jules-Gauthier, 92000 Nanterre, France.

ROCK, John; American physician; b. 24 March 1890, Marlborough, Mass.; s. of Frank S. Rock and Ann Jane Murphy; m. Anna Thorndike 1925; one s. four d. ed. Harvard Coll., and Harvard Medical School; practised obstetrics at Boston and Brookline, Mass. 1921-44, gynaecology 1921-; Surgeon, Free Hospital for Women, Brookline 1924-56, Consulting Gynaecologist 1956-; Dir. Fertility and Endocrine Clinic 1926-56; Clinical Prof. of Gynaecology, Harvard Medical School, Boston 1947-56, Emer. Prof. 1956-; mem. Board of Consultation, Mass. Gen Hospital, Boston 1945-60, Hon. Surgeon 1960-; Dir. Rock Reproductive Clinic, Inc. (fmrly. Rock Reproductive Study Center) 1956-69; Lasker Award of Planned Parenthood Fed. of America, Ortho Award of American Soc. for the Study of Sterility; Oliver Bird Medal 1963, Modern Medicine Award 1966, Margaret Sanger Award 1976; Hon. Sc.D. (Amherst Coll); Dr. h.c. (Univ. of San Marcos, Lima); Hon. LL.D.,(Harvard). *Publications:* The Time Has Come, A Catholic Doctor's Proposals to End The Battle Over Birth Control 1963; Co-author Voluntary Parenthood 1949, and numerous articles. *Leisure interests:* reading, writing, clinical research in human reproduction. *Address:* Temple, New Hampshire 03084, U.S.A. *Telephone:* 603-878-1722.

ROCKEFELLER, David, B.S., PH.D.; American banker b. 12 June 1915, New York; s. of John Davison Jr. and Abby Greene (née Aldrich) Rockefeller; brother of John, Laurance and Nelson Rockfeller (q.v.); m. Margaret McGrath 1940; two s. four d.; ed. Harvard Univ. and Univ of Chicago; Sec. to Mayor Fiorello H. La Guardia, New York 1940-41; Asst. Regional Dir. U.S. Office of Defense 1941-42; Officer of Defense, Health and Welfare, U.S. Army 1942-45; Foreign Dept. Chase Nat. Bank 1946-48, 2nd Vice-Pres. 1948-49, Vice-Pres. 1949-51, Snr. Vice-Pres. 1951-55; Exec. Vice-Pres. Chase Manhattan Bank 1955-57, Dir. 1957-, Vice-Chair. Board of Dirs.1957-61, Pres and Chair. Exec. Cttee. 1961-69, Chair. and

Chief Exec. Officer 1969-; Chair. Rockefeller Univ. 1950-75, Chair Exec. Cttee. 1975-, Council on Foreign Relations and other chairmanships; Vice-Chair. Museum of Modern Art; Trustee Rockefeller Brothers Fund, Vice-Chair. 1969-; Rockefeller Family Fund, John F. Kennedy Library, Chicago Univ., Life Trustee 1966–; Dir. Rockefeller Center Inc., New York Clearing House, Int. Exec. Service Corps, Chair. 1964-68, Council of the Americas, Chair. 1965-70, Center for Inter-American Relations, Chair. 1966-70; Hon. LL.D. from eight univs.; numerous American and foreign awards. *Publications:* Unused Resources and Economic Waste 1940, Creative Management in Banking 1964. *Address:* 1 Chase Manhattan Plaza, New York, N.Y. 10015, U.S.A.

ROCKEFELLER, James S.; American businessman; b. 8 June 1902, New York; s. of William G. and Elsie (Stillman) Rockefeller; m. Nancy Carnegie 1925; two s. two d.; ed. Yale Univ.; worked with Brown Brothers & Co. 1924-30; joined Nat. City Bank of New York (now Citibank) 1930, Asst. Cashier 1931, Asst. Vice-Pres. 1933, Vice-Pres. 1940, Senior Vice-Pres. 1948, Exec. Vice-Pres. 1952, Pres. and Dir. 1952-59, Chair. and Dir. 1959-67; served with U.S. Army 1942-46; Dir. First Nat. City Trust Co. (Bahamas) Ltd., Pan American World Airways, Cranston Print Works Co.; Vice-Pres. and Dir. Indian Spring Land Co.; mem. Board of Managers of the Memorial Hosp. for Cancer and Allied Diseases, New York; Trustee of Estate of William Rockefeller, American Museum of Natural History. *Leisure interests:* farming, shooting, fishing. *Address:* c/o Citibank, Room 2900, 399 Park Avenue, New York, N.Y. 10022, U.S.A. *Telephone:* 212-559-4444.

ROCKEFELLER, Laurance Spelman, O.B.E., A.B.; American conservationist and business executive; b. 26 May 1910, New York; s. of John Davison Jr. and Abby Greene (née Aldrich) Rockefeller; brother of David (q.v.), the late John and the late Nelson Rockefeller; m. Mary French 1934; one s. three d.; ed. Princeton Univ.; served in U.S.N.R. 1942-45; Dir. Eastern Airlines 1938-61, 1976-; Chair. Rockefeller Center 1953-56, 1958-66, now Dir., Hudson River Valley Comm. 1965-66, New York Zoological Soc., Rockefeller Brothers Fund, Citizens' Advisory Cttee. on Environmental Quality 1969-73; Pres. American Conservation Assn.; Jackson Hole Preserve Inc., Palisades Interstate Park Comm.; Trustee, Princeton Univ., Alfred P. Sloan Foundation, Nat. Geographical Soc., N.Y. State Historic Trust, Nat. Park Foundation; mem. Nat. Cancer Advisory Board, State Council of Parks and Outdoor Recreation; Commdr. Ordre Royal du Lion (Belgium) 1950 and several American awards. *Address:* Room 5600, 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A.

ROCKWELL, Willard Frederick, Jr., B.S. American industrialist; b. 3 March 1941, Boston; s. of Willard F. and Clara Thayer Rockwell; m. Constance Templeton 1942; four s. one d.; ed. Pennsylvannia State Univ.; Cost Accountant, Pittsburgh Equitable Meter Co. 1935-36, Accountant 1937-39, Vice-Pres., Controller 1939-43, Vice-Pres., Gen. Man. 1945-47; Asst. to Controller, Timken-Detroit Axle Co. 1933-37; Pres., Rockwell-Standard Corpn. 1963-67; Chair. of Board North American Rockwell (now Rockwell Int. Corpn.) 1967-, Chief Exec. Officer 1970-74; Pres. Rockwell Mfg. Co. 1947-64, Vice-Chair. 1964-71, Chair. 1971-73; Dir., Allegheny Ludlum Industries Inc., Mellon Bank N.A., Lone Star Industries Inc., El Paso Natural Gas Co., Kearney and Trecker Corpn.; mem. Citizens' Advisory Cttee. on Environmental Quality; U.S. Dir., U.S.-U.S.S.R. Trade and Econ. Council, New York; mem. Nat. Council Foreign Policy Assn.; mem. American Inst. of Industrial Engineers, American Petroleum Inst., etc.; mem. Board of Trustees, Univ. of S. Calif.; Trustee Midwest Research Inst., Kansas City, Southwest Research Inst., San Antonio; Fellow R.S.A., London American Soc. of Mechanical Engineers; Hon. mem. Soc. of Mfg. Engineers; Hon. LL.D. (Grove City Coll., Lambeth Coll.), Hon. D.Eng. (Tufts Univ., Washington and Jefferson Coll.). *Address:* Rockwell International Corpn., 600 Grant Street, Pittsburgh, Pa. 15219, U.S.A. *Telephone:* (412) 565-2000.

RODDIS, Louis, Jr.; American business executive; b. 9 Sept. 1918, Charleston, S.C.; ed. U.S. Naval Acad. and Massachusetts Inst. of Technology; former U.S. Naval Officer; helped to develop ■ prototype ship propulsion reactor and participated in design of U.S.S. Nautilus and other early naval nuclear projects; with Div. of Reactor Devt. U.S. Atomic Energy Comm. 1955-58; Pres. Pennsylvania Electric Co. (subsidiary of Gen. Public Utilities Corpn.) 1958-67, Chair. of Board 1967-69; Dir. Nuclear Activities of Gen. Public Utilities Corpn.1967-69; Pres. and mem. Board of Trustees, Consolidated Edison Co. of New York Inc. 1969-73, Vice-Chair. 1973-74; Pres., Chief Exec. Officer, John J. McMullen Assocs., Inc. 1975-76, Consulting Engineer 1976-; active in ■ wide variety of public services, charitable, industrial and trade orgs.; consultant to several govt. agencies; Dir. and Past Pres. Atomic Industrial Forum, American Nuclear Soc.; ■■■ Nat. Acad. of Engineering and other professional socs; Outstanding Service Award, U.S. Atomic Energy Comm. 1957. *Address:* 110 Broad Street, Charleston, s.c. 29401, U.S.A.

RODE, Ebbe; Danish actor; b. 10 May 1910; s. of Helge and Edith Rode; m. Nina Pens 1959; mem. staff Dagmarteatret 1931, Royal Theatre, Copenhagen 1932-57, 1965-; guest actor at theatres in Denmark, Iceland, Norway and Sweden; Knight of the Order of Dannebrog. Leading roles in plays including: Etienne, Topaze, Winterset, Ah! Wilderness, Waterloo-Bridge, Caesar and Cleopatra, Dolls House, Pygmalion, Otto Frank, The School for Scandal, The Price, The Father; has acted in numerous films and on television and radio. *Publications:* My Meeting with Albert Schweitzer in His Hospital, numerous speeches, poems, memoirs, articles and books about actors and acting. *Address:* Solbakken 28, 2830 Virum; The Royal Theatre, Copenhagen, Denmark.

RODENBOURG, Eugène; Luxembourg lawyer; b. 18 Sept. 1895, Luxembourg; Advocate 1920; Justice of Peace, Rédange 1927; Judge, District Court, Kiekirck 1927, Luxembourg (City) 1929; Advocate-Gen. 1937; Public Prosecutor 1945; Pres. District Court of Luxembourg 1946; Vice-Pres. High Court of Justice 1959-60, Hon. Vice-Pres. 1960-; Councillor of State 1947-, Vice-Pres. Council of State 1969-; Judge, European Court of Human Rights 1958-76. *Address:* 20 rue des Roses, Luxembourg.

RODENSTOCK, Rudolf (Rolf), DR.RER.POL.; German manufacturer; b. 1 July 1917; ed. Technical Univ., Munich; Prof. with special duties, Univ of Munich 1956; proprietor of Optische Werke G. Rodenstock, Munich; Pres. Landesverband der Bayerischen Industrie, Munich; mem. Presidency, Bundesvereinigung der Deutschen Arbeitgeberverbände, Cologne; Pres. Industrie- und Handelskammer, Munich 1971-78; Vice-Pres. Bundesverband der Deutschen Industrie (Fed. of German Industries), Cologne, Pres. Sept. 1978–; mem. Board Deutsche Allgemeine Spiegelglas A.G., Münchener Rückversicherungs-Ges., Bayernwerk A.G., Messe- u. Austellungs A.G., Industriekreditbank A.G., Gesellschaft der Freunde der Bayerischen Akad. der Wissenschaften, Munich, Deutsches Industrieinstitut, Cologne. *Address:* Bundersverband der Deutschen Industrie, 5000 Köln 51, Oberländer Ufer 84-88, Federal Republic of Germany.

RODGERS, John, M.S., PH.D.; American professor of geology; b. 11 July 1914, Albany, N.Y.; s. of Henry D. and Louise W. (Allen) Rodgers; unmarried; ed. Albany Acad., Cornell and Yale Univs.; Dept. of Geology, Cornell Univ. 1935-36, Instructor 1936-37; Field Geologist, U.S. Geological Survey 1938-, in full time employment 1940-46; Scientific Consultant, U.S. Army Corps. of Engineers 1944-46; Instructor, Yale Univ. 1946-47, Asst. Prof. 1947-52, Assoc. Prof. 1952-59, Prof. 1959-, Silliman Prof. of Geol. 1962-; Gen. Sec. Int. Comm. on Stratigraphy 1952-60; Senior Fellow, Nat. Science Foundation 1959-60; Commr. Conn. Geol. and Nat. History Survey 1960-71; Visiting Lecturer, Coll. de France 1960; Exchange scholar Soviet Union 1967; Asst. Ed. American Journal of Science 1948-54, Ed. 1954-; mem. N.A.S.; Hon. mem. Geol. Soc. of London 1970; Pres. Conn. Acad. of Arts and Sciences 1969, Geol. Soc. of America 1970; Hon. mem. Soc. Géologique de France 1973; Hon. Foreign mem., U.S.S.R. Acad. of Sciences 1976; Foreign Corresp. mem. Acad. real de Ciencias, Barcelona 1976; John Simon Guggenheim Fellow (Australia) 1973-74; Medal of Freedom, U.S. Army. *Publications:* Principles of Stratigraphy (with C. Dunbar) 1957, The Tectonics of the Appalachians 1970; many articles on geology. *Leisure interests:* music (piano), travel, reading (history, philosophy). *Address:* Department of Geology, Yale University, New Haven, Conn. 06520, U.S.A.

RODGERS, Sir John (Charles), Bart., M.A., F.S.S., F.B.I.M., F.R.S.A., F.I.S., D.L., M.P.; British administrator and politician; b. 5 Oct. 1906, York; s. of Charles and Maud Mary Rodgers; m. Betsy Aikin-Sneath, J.P. 1931; two s.; ed. St. Peter's York, Ecole des Roches, France, and Keble Coll., Oxford; Sub-Warden, Mary Ward Settlement, London 1929; Lecturer and Admin. Asst. Hull Univ. 1930; Founder British Market Research Bureau Ltd. 1933, Chair. 1933-53, 1978-; Foreign Office 1939, 1944 and 1945; Special Mission to Portugal Dec. 1945; Dir. commercial Relations Div., Ministry of Information 1939-41; Dept. of Overseas Trade Dir. Post War Export Planning 1941-42; Ministry of Production 1942-43, Dir. of Industrial Information; Founder Gov. Admin. Staff Coll. 1948, now Vice-Pres.; BBC Gen. Advisory Council 1946-52; M.P. 1950-; Parl. Private Sec. to Sir David (now Viscount) Eccles at Ministries of Works, Educ., and Board of Trade 1951-57; Parl Sec. to Board of Trade and Minister for Regional Devt. and Employment 1958-60; Select Cttee. on Public Accounts 1970-75, on Expenditure 1974-; mem. Exec. Cttee. British Council 1957-58, Tucker Cttee. on Evidence before

Examining Justices 1957; mem. of Council and leader Parl. Panel Inst. of Dirs. 1955-58; Dir. British Film Inst. 1958-59; Int. Pres. Centre Européen de Documentation et Information 1966-69; Vice-Pres. INFRA (Int. Freedom Acad.) 1966-68; Council Exec. Foundation for Management Educ. 1960-, Council British Inst. of Man. 1965-69; Vice-Chair. Exec. Cttee. PEP (Political and Econ. Planning) 1962-69; U.K. Del. and leader of Conservative group, Parl. Assembly Council of Europe and Western European Union 1969-; Chair. Anglo-Finnish, Anglo-Taiwan, Anglo-Mexican and Anglo-Spanish All-Party Parl. groups; Chair., Caribbean Sub-Cttee. Conservative Foreign and Commonwealth Cttee.; Vice-Pres. British Section, European League for Econ. Co-operation 1972-; Deputy Lieut. County of Kent 1973; fmrly. Deputy Chair. J. Walter Thompson Co. Ltd.; Vice-Chair. Cocoa Merchants Ltd.; Dir. History Today Ltd., mem. Council of Nat. Trust 1977- etc.; Past Master Worshipful Company of Masons and Freeman of City of London; Grand Cross of Liechtenstein, Commdr., Order of Dom Infante Henrique (Portugal), Knight Grand Cross of Civil Merit (Spain), Grand Officer, Order of Leopold II (Belgium); Conservative. *Publications:* Mary Ward Settlement: ■ History 1930, Marketing Survey of the United Kingdom (joint) 1936-38, The Old Public Schools of England 1938, The English Woodland 1942, Industry Looks at the New Order (joint) 1942, English Rivers 1945, Tobias and Raphael 1948, York 1951, One Nation (joint) 1951; Editor: Poems of Thomas Gray 1953, Change is our Ally 1955, Automation and the Consumer (joint) 1957, Monopolies and the Consumer's Interests (joint) 1963, etc. *Leisure interests:* travel and theatre. *Address:* 72 Berkeley House, Hay Hill London, W.1; and The Dower House, Groombridge Kent. England. *Telephone:* 01-629 5220; Groombridge 213.

RODGERS, Richard; American composer; b. 28 june 1902, New York; s. of Dr. and Mrs. William Rodgers; m. Dorothy Feiner 1930; two d.; ed. Columbia Univ. and Inst. of Musical Art, New York; produced various shows; Pres. Dramatists' Guild 1943-47; Pres. and Producing Dir., Lincoln Center for the Performing Arts Music Theatre; mem. Nat. Inst. of Arts and Letters, Authors' League, American Dramatists' Guild, Nat. Asscn. of Composers and Conductors; Award, Entertainment Hall of Fame 1975. First score Lido Lady 1926; later shows include Pal Joey 1940, Oklahoma (Pulitzer Award) 1943, Carousel 1945, Allegro 1947, South Pacific (Pulitzer Prize) 1949, The King and I 1951, Me and Juliet 1953, Pipe Dream 1955, Cinderella (TV) 1957, Flower Drum Song 1958, The Sound of Music 1959, No Strings 1963, Do I Hear ■ Waltz? 1965, Androcles and the Lion (TV) 1967, Two by Two 1970, Rex 1976; scores for films Love Me Tonight, State Fair and others; scores for TV series Victory at Sea 1952, Winston Churchill: The Valiant Years 1960. *Publication:* Musical Stages (autobiography). *Address:* c/o Rodgers and Hammerstein, 598 Madison Avenue, New York, N.Y. 10022, U.S.A.

RODGERS, Rt. Hon. William Thomas, P.C., M.A.; British politician; b. 28 Oct. 1928, Liverpool; s. of William Arthur and Gertrude Helen Rodgers; m. Silvia Schulman 1955; three d.; ed. Sudley Road Council School and Quarry Bank High School, Liverpool and Magdalen Coll., Oxford; Gen. Sec. Fabian Soc. 1953-60; Labour Candidate for Bristol West 1957; Borough Councillor, St. Marylebone 1958-62; M.P. for Stockton-on-Tees 1962-74, for Stockton Div. of Teeside 1974-; Parl. Under-Sec. of State, Dept. of Econ. Affairs 1964-67, Foreign Office 1967-68; Leader, U.K. del. to Council of Europe and Assembly of WEU 1967-68; Minister of State, Board of Trade 1968-69, Treasury 1969-70; Chair. Expenditure Cttee., on Trade and Industry 1971-74; Minister of State, Ministry of Defence 1974-76; Sec. of State for Transport 1976-79; Opposition Spokesman for Defence June 1979-. *Publications:* Hugh Gaitskell 1906-1963 (editor) 1964, The People Into Parliament (co-author) 1966. *Leisure interests:* reading, walking, cinema. *Address:* House of Commons, Westminster, London, S.W.1; 48 Patshull Road, London, N.W.5, England (Home). *Telephone:* 01-485 9997 (Home).

RODINO, Peter Wallace, Jr.; American politician; b. 7 June 1909, Newark, N.J.; m. Marianna Stango 1941; one s. one d.; ed. New Jersey Law School; admitted to N.J. Bar 1938; mem. House of Reps. for N.J. 1948-74; Chair. House Judiciary Cttee. 1973; Del. North Atlantic Asscn., Intergovernmental Cttee. for European Migration 1962- (Chair. 1971-72); mem. Pres. Select Comm. on Western Hemisphere Immigration; del. North Atlantic Ass.; Chair. Impeachment investigation of Pres. Richard Nixon 1973-74; Knight Order of the Crown (Italy), Grand Knight Order of Merit (Italy), and others. *Address:* 970 Broad Street, Newark, N.J. 07102 and Room 2462, House Office Building, Washington, D.C. 20515 (Offices); 205 Grafton Avenue, Newark, N.J. 07104 (Home).

RODINÒ DI MIGLIONE, Marcello; Italian broadcasting official; b. 17 April 1906; ed. Univ. of Naples: former Dir.-Gen. Southern Italy Power Co.(S.M.E.); fmr. Treas. Nat. Asscn. of Electrical Companies; fmr. Del. Manager Radiotelevisione Italiana (R.A.I.); fmr. Del. Man. S.I.P.R.A. (advertising agency), M.C.M. (Southern Cotton Mfg.); Pres. Telespazio; fmr. Pres. European Broadcasting Union; Pres. Associazone Società Italiane per Azione (ASSONIME); Cavaliere del Lavoro and other decorations. *Address:* Telespazio, Corso d'Italia 42, 00198 Rome; Assonime, Piazza Venezia 11, 00187 Rome, Italy.

RODIONOV, Aleksey Alekseyevich; Soviet diplomatist; b. 27 March 1922, Pesochnoye, Gorky Region; ed. U.S.S.R. Finance and Economics (Correspondence) Inst.; Young Communist League and CP work 1940-64; First Sec. Omsk City Cttee., CPSU 1953-60; Sec. Omsk Regional Cttee., CPSU 1960-62; Diplomatic Service 1964-; Counsellor-Minister, New Delhi 1964-66; Amb. to Burma 1966-68; Minister of Foreign Affairs of R.S.F.S.R. 1968-71; Amb. to Pakistan 1971; Order of Red Banner (three times). *Address:* Ministry of Foreign Affairs of R.S.F.S.R., Prospekt Mira 79, moscow, U.S.S.R.

RODIONOV, Nikolay Nikolayevich; Soviet politician; b. 30 April 1915; ed. Moscow Steel Inst. Engineer, Magnitogorsk and Leningrad 1941-48; mem. CPSU 1944-; party work, Leningrad 1948-54; Second Sec. Leningrad City Cttee. CPSU 1954-56, First Sec. 1957-60; Second Sec. Leningrad District Cttee. 1956-57; Second Sec. Cen. Cttee. CP Kazakhstan 1960-62; Deputy Chair. Council of Nat. Economy, Leningrad Econ. Region 1962-65; First Sec. Chelyabinsk Regional Cttee. of the CPSU 1965-70; Deputy Minister of U.S.S.R. for Foreign Affairs 1970-; Amb. to Yugolslavia 1978-; Cand. ■■■ Cen. Cttee. CPSU 1961-66, mem. 1966-; Deputy to U.S.S.R. Supreme Soviet 1958-70; Order of Lenin, Order of October Revolution and other decorations. *Address:* Embassy of the U.S.S.R., Belgrade, Yugoslavia.

RÖDÖNYI, Károly; Hungarian engineer and politician (retd.); b. 1911, Budapest; s. of Károly Rödönyi and Maria Vida; m. 1948; two c.; ed. Technical Univ. of Budapest; joined Communist Party 1946; with Weiss Manfred Iron and Metal Works, Csepel 1936; Railway Engineer 1938, Official at local railway management sections of Budapest, Debrecen and Szeged; with Hungarian State Railways 1951, Deputy Gen. Dir. 1957-63, Gen. Dir. 1963-74; Deputy Minister, Ministry of Posts and Communications 1963-70, First Deputy Minister and State Sec. 1971, Minister 1974-76; mem. Hungarian Acad. of Sciences Railway Cttee.; Pres. Fed. for Communication Science 1963-; Chair. Int. Railway Asscn. 1971-72; awards from railway authorities of U.S.S.R., Czechoslovakia, German Democratic Repub. and Poland; Medal of Merit for Socialist Labour 1955, 1956, Labour Order of Merit 1963, Medal of Merit. *Address:* c/o Ministry of Posts and Communications, Dob-utca 75/81, 1400 Budapest, Hungary. *Telephone:* 220-220.

RODRIGUEZ, Carlos Rafael; Cuban journalist, writer and politician; b. 23 May 1913. mem. Partido Comunista 1932-, Exec. Cttee. 1940-; Dir. Escuela Económica, Univ. de la Habana 1960-62; Editor Hoy 1959-62; Pres. Nat. Land Reform Inst. 1962-65; mem. Central Cttee. and Nat. Secr. Cuban C.P. 1966; Vice-Pres. Council of Ministers 1971-; Council of State 1976-; mem. Exec. Cttee. for Foreign Affairs 1972-76; mem. Exec. Cttee. COMECON 1972-. *Address:* Comité Central del Partido Comunista, Plaza de la Revolución, Havana, Cuba.

RODRIGUEZ LARA, Maj.-Gen. Guillermo; Ecuadorean army officer; b. 4 Nov. 1923; ed. Quito Mil. Acad. and studies abroad; Commander-in-Chief of Army 1971; President of Ecuador (following coup d'état) 1972-76.

RODRIGUEZ MONEGAL, Emir; Uruguayan writer; b. 28 July 1921; ed. Lycée Français, Montevideo, and Univ. de la República; Teacher of general literature, secondary schools, Montevideo 1945-52; Prof. of English Literature, Instituto de Profesores, Montevideo 1952-62; Visiting Prof. of Latin American Literature, El Colegio de México, Mexico 1964; Visiting Prof. Harvard Univ. 1965; Editor Mundo Nuevo (literary magazine), Paris 1965. *Publications:* El juicio de los parricidas 1956, Obras completas de José Enrique Rodó (Editor) 1957, Las raíces de Horacio Quiroga 1960, Literatura uruguaya del medio siglo 1966, El viajero inmóvil: Introducción ■ Pablo Neruda 1966, Vínculo de Sangre 1969.

RODRIGUEZ RAMOS, Manuel, A.B., LL.B., M.C.L.; American writer, lawyer and law professor; b. 1908, San Juan, Puerto Rico; ed. Univ of Puerto Rico and Tulane Univ. of Louisiana; private law practice 1932-36; Under-Sec. of Justice of Puerto Rico 1936-44; law lecturer (ad honorem) Coll. of Law, Univ. of Puerto Rico; Visiting Prof. Coll. of Law, Tulane Univ. 1946-47; Visiting Prof. Luxembourg Univ.; Dean, Faculty of Law, Univ. of Puerto Rico 1944-60, Dean Emer. 1961-; Dir. Legal Aid Soc. of Puerto Rico; fmr. Gov. Puerto Rico Rotary Int.; Chief Ed. Revista Jurídica de la Universidad de Puerto Rico 1932, and Faculty Adviser 1944-; Adviser to Revista

de Legislación y Jurisprudencia de Puerto Rico; Order of the Coif, Hon. LL.D. *Publications:* books and articles on comparative and administrative law. *Address:* P.O. Box 1175, Hato Rey, Puerto Rico 00919, U.S.A.

RODRÍGUEZ Y RODRÍGUEZ, Jesús; Mexican financial official; b. 2 March 1920, México, D.F.; ed. Universidad Nacional Autónoma de México; joined Secretariat of Finance and Public Credit 1942, Under-Sec. for Finance and Credit 1959-70; Exec. Dir. for Mexico, Panama and Dominican Repub., IDB Feb. 1971-; Prof. of Admin. Law, Univ. Nacional Autónoma de México; First Vice-Pres. Inter-American Econ. and Social Council; Acting Chair. Inter-American Cttee. on Alliance for Progress; del. to numerous int. confs. *Address:* Inter-American Development Bank, 808 17th Street, N.W., Washington, D.C. 20577, U.S.A.

ROEDER, Kenneth David, M.A.; American professor of physiology; b. 9 March 1908, England; s. of Carl David Roeder and Grace (Phillips) Roeder; m. Sonja von Cancrin 1931; one s. one d.; ed. Bembridge School, Isle of Wight, England and Cambridge and Toronto Univs; mem. of Biology Dept., Tufts Univ., Mass. 1931-, Prof of Physiology 1948-, Chair. of Biology Dept. 1959-64; Fellow A.A.A.S.; mem. Nat. Acad. of Sciences, Leopoldina Soc. (Halle G.D.R.); Hon. Fellow, Royal Entomological Soc. (London); Hon. D.Sc. (Tufts Univ.). *Publications:* Insect Physiology 1953, Nerve Cells and Insect Behaviour 1967; and about 70 papers on insect neurophysiology and behaviour. *Leisure interests:* research, photography. *Address:* Department of Biology, Tufts University, Medford, Mass. 02155, (Office); 454 Monument Street, Concord, Mass. 01742, U.S.A. (Home). *Telephone:* 617-628-5000, Ext. 332 (Office); 617-369-9451 (Home).

ROEG, Nicolas Jack; British film director; b. 15 Aug. 1928, London; s. of Jack Nicolas Roeg and Mabel Roeg; m. Susan Rennie Stephen 1957; four s.; ed. Mercers School; *Principle films:* [redacted] *cinematographer:* The Caretaker 1963, Nothing but the Best 1964, Fahrenheit 451 1966, Far from the Madding Crowd 1967, Petulia 1968; Dir: Performance 1968, Walkabout 1970, Don't Look Now 1972, The Man who Fell to Earth 1975. *Address:* Flat E, 2 Oxford and Cambridge Mansions, Old Marylebone Road, London, N.W.1, England.

ROEM, Mohammad; Indonesian politician; b. 16 May 1908, Parakan, Kedu Central Java; s. of Dzoelkarnain Djojosasmi and Siti Tarbiyah; m. Markisah Dahlia 1932; one s. one d.; ed. Law School, Batavia, Jakarta; Solicitor in private practice, Jakarta 1940-67; fmr. leader of Islamic Youth Movement; Indonesian Minister of the Interior 1946-48; mem. del. in Dutch-Indonesian talks leading to Agreement Linggajati 1947, Renville Agreement 1948; Chair. Indonesian del. leading to Van Roijem-Roem Statements 1949; Deputy Chair. Round Table Conf. with Netherlands Govt. 1949; first High Commr. of Indonesia to the Netherlands 1950; Minister of Foreign Affairs 1950-51, of Home Affairs 1952-53; First Vice-Premier 1956-57; mem. Exec. Cttee. Masjumi Party 1945-62, 3rd Deputy Chair. 1959; fmr. Pres. Islamic Univ., Medan 1953-62; detained 1962-66; founder-mem. Partai Muslimin Indonesia 1967, Chair. 1968-72; mem. World Muslim Congress 1975-; mem. Board Dirs. Asian Conf. for Religion and Peace. *Publications:* Bunga Rampai Sejarah I (1972), II (1977). *Leisure interests:* swimming, horse-riding. *Address:* c/o Jalan Teuku Cik Ditiro 58, Jakarta-Pusat, Indonesia. *Telephone:* 343393.

ROEMER, Karl Josef; German lawyer; b. 30 Jan. 1899, Völklingen, Saar; m. Brita Weyer 1948; one s.; ed. Cologne, Munich, Freiburg i. Br. and Bonn Univs; worked for [redacted] private bank 1921-24, later Assessor and Judge, Cologne; official banking inst. in Berlin 1932-48, Chief of External Relations Dept., Advocate 1936-46; Advocate, Courts of First Instance and Appeal, Saarbrücken 1947-53; attached to Bonn Govt. Services for study of problems of economic re-organization; mem. Sonderstelle Geld und Kredit (monetary reform); Counsellor to Govt. on int. law and foreign jurisdiction 1947-53, on judicial missions abroad for Fed. Govt. 1948-52; Advocate Gen. E.C.S.C. Court 1952-58, Court of Justice to European Communities 1958-72; German Red Cross, Golden Grand Cross, Grosses Verdienstkreuz mit Stern und Schulterband of Fed. Repub. of Germany; Ordre de Mérite du Grand Duchy of Luxembourg (1st Class), Grande Ufficial dell'Oridine al Merito della Repubblica Italiana; Légion d'honneur; Dr. jur. h.c., (Univ. of Munich). *Address:* 26 rue Frantz-Clément, Luxembourg *Telephone:* 26 793 (Home).

ROGERS, Benjamin, M.SC. (ECON.); Canadian fmr. diplomatist; b. 3 Aug. 1911, Vernon, B.C.; s. of Reginald Heber and Anna (Fraser) Rogers; m. Frances Morrison 1939; one s.; ed. Dalhousie Univ., and Univ of London; with Royal Inst. of Int. Affairs, London 1935-36; Acting Nat. Sec. Canadian Inst. of Int. Affairs 1937-38; entered Dept. of External Affairs 1938; served Australia 1939-43, U.S.A. 1943-44, Brazil 1944-48, Dept. of External Affairs 1948-50; Chargé d'Affaires, Prague 1950-52; Dept of External Affairs 1952-55; Amb. to Peru 1955-58, Amb. to Turkey 1958-60; Deputy High Commr. to U.K. 1960-64; Amb. to Spain and Morocco 1964-69; Amb. to Italy and High Commr. to Malta 1970-72; Chief of Protocol, Dept. of External Affairs 1972-75; retd. *Publications:* Canada Looks Abroad (with R.A. McKay) 1938. *Leisure interests:* painting, skiing, writing. *Address:* 450 Piccadilly Avenue, Ottawa K1Y OH6, Canada. *Telephone:* (613) 728-0914.

ROGERS, Gen. Bernard William, M.A.; American [redacted]y officer; b. 16 July 1921, Fairview, Kan.; s. of late W.H. Rogers [redacted]d of Mrs. Rogers; m. Ann Ellen Jones 1944; one s. two d.; ed. Kansas State Coll., U.S. Mil. Acad., Univ. of Oxford, U.S. Army Command and Gen. Staff Coll., U.S. Army War Coll.; Commdg. Officer, Third Bn., Ninth Infantry Regt., Second Infantry Div., Korea 1952-53; Commdr., First Battle Group, 19th Infantry, 24th Infantry Div., Augsburg, Fed. Repub. of Germany 1960-61; Exec. Officer to the Chair., Joint Chiefs of Staff, the Pentagon 1962-66; Asst. Div. Commdr., First Infantry Div., Repub. of Viet-Nam 1966-67; Commdt. of Cadets, U.S. Mil. Acad. 1967-69; Commdg. Gen., Fifth Infantry Div., Fort Carson, Colo. 1969-70; Chief of Legislative Section, Office of the U.S. Sec. of the Army 1971-72; Deputy Chief of Staff for Personnel 1972-74; Commdg. Gen., U.S. Armed Forces Command, Fort McPherson , Ga. 1974-76; Chief of Staff, U.S. Army 1976-79, Supreme Allied Commdr. Europe, NATO 1979-; Rhodes Scholar 1947-50; D.S.C. 1967. *Publication:* Cedar Falls-Junction City: [redacted] Turning Point 1974. *Leisure interest:* golf. *Address:* Supreme Headquarters, Casteau, 32 Chausée de Binche, B.7000, Mons, Belgium.

ROGERS, (N.) Ernesto, DR. ARCH.; Italian architect; b. 16 March 1909; ed. School of Architecture, Milan. Prof. of Theory of Architecture at Milan Polytechnic; Private practice with others in Town Planning, Architecture, Interior Decoration and Industrial Design, Milan; works include houses, factories, pavilions, health resort for children at Legnano 1939; Post Office, Rome 1939; monument to the dead in German concentration camps at Milan Cemetery 1946; Olivetti Showroom, Fifth Ave., New York; Italian Merchant Navy Pavilion at Int. Exhbn., Paris 1937, U.S. Pavilion at Triennale 1951; restoration of Sforza Castle Museums 1956; Torre Velasca, Milan; Canadian Pavilion, Venice Biennale; Italian Pavilion (in collaboration), Brussels int. Exhbn. 1958; town planning studies (in collaboration): Pavia 1933, Milan 1945, regional plan for Valle d'Aosta 1936-37, Elba Island 1940; Consultant for Town Planning, Buenos Aires 1948, Adviser for Town Planning, Lima 1948; Visiting Prof. Lausanne Univ. 1944-45, Geneva Univ. 1945, Tucuman Univ. 1948, Architectural Assn. School, London 1949; Prof. Italian Culture, Univ. of Calif. 1959; Lecturer other univs. and cultural centres, Europe, America and Asia; mem. Council CIAM (Congrès Int. d'Architecture Moderne); mem. Cttee. of Five Architects, UNESCO; Accademia di S. Luca, Rome, World Acad. of Art and Science; Editor Domus magazine 1946-47, Casabella-Continuita magazine 1954-64. *Publications:* Stile (with Banfi, Belgiojoso, Peressutti) 1936; in collaboration: Piano regionale della Valle d'Aosta 1943, Piano A.R. 1945, The Heart of the City 1952, Auguste Perret Esperienza dell'Architettura 1958, Utopia della Realtà 1965 (with others). *Address:* Studio Architetti B.D.P.R., Via dei Chiostri 2, Milan, Italy.

ROGERS, Ginger (Virginia McMath); American actress; b. 16 July 1911, Independence, Mo.; m. G. William Marshall (divorced). commenced dancing [redacted] as performer in stage shows on cinema circuit, later graduating to musical shows on Broadway, and films; Acad. Award Best Actress for Kitty Foyle 1940. *Stage appearances include:* Top Speed 1929, Girl Crazy 1930, Hello Dolly 1965, Mame (London) 1969. *Films include:* Young Man of Manhattan 1930, Flying Down to Rio (the first of eleven musicals co-starring Fred Astaire, q.v.) 1933, Gold Diggers of 1933 1933, Forty Second Street 1933, Gay Divorcee 1934, Roberta 1934, Top Hat 1935, Follow the Fleet 1936, Swing Time 1936, Shall We Dance 1937, Stage Door 1938, carefree 1938, Vivacious Lady 1938, The Story of Vernon and Irene Castle 1939, Kitty Foyle 1940, Tom, Dick and Harry 1941, Lady in the Dark 1943, The Major and the Minor 1943, Weekend at the Waldorf 1945, It Had to Be You 1948, The Barkeleys of Broadway 1948, We're Not Married 1952, Monkey Business 1953, Forever Female 1954, Black Widow 1954, Tight Spot 1955, Oh Men, Oh Women 1957, The Confession 1965. *Leisure interests:* oil painting, tennis, golf. *Address:* Rogers Rogue River Ranch, Route 1, Box 472, Eagle Point, Ore. 97524, U.S.A.

ROGERS, Paul; British actor; b. 22 March 1917; ed. Newton Abbot Grammar School, Devon and Michael Chekhov Theatre Studio; first stage appearance at Scala Theatre 1938; Stratford on

Avon Shakespeare Memorial Theatre 1939; Royal Navy 1940-46; with Bristol Old Vic Co. 1947-49, London Old Vic 1949-53, 1955-56; *shows include:* The Merchant of Venice 1952, The Confidential Clerk 1953, Macbeth 1954, The Taming of the Shrew; toured Australia ■ Hamlet 1957; The Elder Statesman 1958, King Lear 1958, Mr. Fox of Venice 1959, The Merry Wives of Windsor 1959, A Winter's Tale 1959, One More River 1959, JB 61, Photo Finish 1962, The Seagull 1964, Season of Goodwill 1964, The Homecoming 1965, 1968, Timon of Athens (Stratford) 1965, The Government Inspector 1966, Henry IV (Stratford) 1966, Plaza Suite 1969, The Happy Apple 1970, Sleuth (London 1970, New York 1971), Othello (Old Vic) 1974, Heatbreak House (Nat. Theatre) 1975, The Marrying of Ann Leete (Aldwych) 1975, The Return of A. J. Raffles (Aldwych) 1975, The Zykovs (Aldwych) 1976, Volpone, The Madras House (Nat. Theatre) 1977, Half Life (Nat. Theatre), Eclipse (Royal Court Theatre) 1978, Merchant of Venice (birmingham Repertory Co.) 1979; *Films include:* A Midsummer Night's Dream 1968, The Looking-Glass War 1969, The Reckoning 1969, The Homecoming 1973, The Abdication 1975, Mr. Quilp 1975. *Address:* 9 Hillside Gardens, Highgate. London, N.6. England.

ROGERS, William P., LL.B.; American lawyer and government official; b. 23 June 1913, Norfolk, N.Y.; m. 1936; three s. one d.; ed. Canton High School, New York, Colgate Univ. and Cornell Univ. Law School; joined law firm of Cadwalader, Wickersham and Taft, New York 1937; Asst. District Attorney, County 1938-42, 1946-47; officer in U.S. Navy 1942-46; Chief Counsel, Senate War Investigating Cttee. 1947-48, Senate Permanent Investigating Cttee. 1948-50; mem. law firm of Dwight, Royall, Harris, Koegel and Caskey 1950-53; Deputy Attorney Gen. of the U.S. 1953-57, Attorney Gen. 1957-61; U.S. Rep., Gen. Assembly UN 1965; U.S. Rep., UN Ad Hoc Cttee. ■ S.W. Africa 1967; mem. Pres. Comm. on Law Enforcement and Admin. of Justice 1965-67; with Royall, Koegel, Rogers and Wells 1961-69; U.S. Sec. of State 1969-73; with law firm of Rogers and Wells 1973-. *Address:* 200 Park Avenue, New York, N.Y. 10017, U.S.A.

ROHDE, Helmut; German journalist and politician; b. 9 Nov. 1925, Hanover; m. Hanna Müller 1950; one s.; ed. Acad. for Labour, Political Studies and Econs.; Journalist, German Press Agency; Press Officer, Ministry for Social Affairs, Lower Saxony; mem. Parl. (Bundestag) 1957-; mem. European Parl. 1964-; Parl. State Sec. Fed. Ministry of Labour and Social Affairs 1969-74; Chair. SPD Working Group for Issues Concerning Employees 1973-; Fed. Minister for Educ. and Science 1974-78; Paul Klinger Prize 1974, Gold Medal, Assen. of War-Blinded. *Publications:* Sozialplanung—Theorie und Praxis der deutschen Sozialdemokratie, Gesellschaftspolitische Planung und Praxis, Für eine soziale Zukunft, and numerous articles on social and education policy. *Leisure interests:* modern art, music, modern jazz. *Address:* 3 Hannover, Munzelerstrasse 14c, Federal Republic of Germany. *Telephone:* 42-39-55.

ROHLIČEK, Rudolf, D.SC.; Czechoslovak politician; b. 14 July 1929, Malacky; ed. School of Economics, Bratislava; Head of Dept., Investment Bank, Bratislava 1948-58; Chief Sec. District Cttee., CP of Slovakia 1958-60; post-graduate studies 1960-63; offical, Cen. Cttee., CP of Czechoslovakia 1963-64; various offices, Cen. Cttee., CP of Slovakia 1964-67; Head of Dept., Cen. Cttee., CP of Czechoslovakia 1967-69; Minister of Finance, Fed. Govt. 1969-73, Deputy Prime Minister 1973-; Head of Czechoslovak del. to CMEA Perm. Comm. for Financial Questions 1970-73, Perm. Rep. to CMEA 1973-; Deputy, House of People, Fed. Ass. Č.S.S.R. 1971-; Chair. Č.S.S.R. Govt. Comm. for Questions of Rationalization of State Admin. 1970; Chair. Council for Int. Econ. and Scientific Tech. Co-operation 1974-; mem. Cen. Cttee. of CP of Czechoslovakia 1971-; Chair., Govt. Cttee. for Foreign Tourism 1976-; Order of Labour 1973. *Publications:* Finance and Technical Progress 1966, Finance and Efficiency 1974. *Address:* Government Presidium of Czechoslovakia, nábř. kpt. Jaroše 4, Prague, Czechoslovakia.

ROHMER, Eric (pseudonym of Jean-Marie Maurice Scherer); French film director; b. 1920; ed. in Paris; School teacher and journalist until 1955; film critic of Revue du cinéma, Arts, Temps modernes, La Parisienne 1949-63; founded (with others) and former co-editor of La Gazette du cinéma (review); contributed to fmr. and co-editor of Cahiers du cinéma; co-dir. Soc. des Films du Losange; made educational films for French TV 1964-70; wrote and directed Présentation ou Charlotte et son steak 1951, Véronique et son cancre 1958, Le signe du lion (first feature) 1959, La boulangère de Monceau 1962, La carrière de Suzanne 1963, La collectionneuse 1966, Ma nuit chez Maud 1969, Le genou de Claire 1970, l'Amour l'après-midi 1972, La Marquise d'O 1976, Percival le Gallois 1978; Prix Max-Ophuls 1970 (for Ma nuit chez Maud); Prix Louis-Delluc 1971, Prix du Meilleur Film du Festival de Saint-Sébastien 1971, Prix Méliès 1971 (all for Le genou de Claire). *Publications:* Alfred Hitchcock, Charlie Chaplin 1973, Six contes moraux 1974, L'Organisation de l'espace dans le "Faust" de Murnau 1977. *Address:* 26 avenue Pierre-1er-de-Serbie, 75116 Paris, France.

RÖHRS, Karl, DR.RER.POL.; German business executive; b. 14 Dec. 1910, Freilingen, Niedersachsen; s. of August and Emma (née Sasse) Röhrs; m. Marga Dücker 1936; ed. Univs. of Berlin and Hamburg; joined Vereinigte Aluminium-Werke AG (VAW) 1937, Deputy mem. Man. Board 1946, mem. 1951, Chair. Man. Board 1962-68, Chair. Advisory Board 1969-; mem. Man. Board, Vereinigte Industrie-Unternehmungen AG 1951-76 (Chair. 1962-68). *Address:* 53 Bonn 2, Im Hohn 29, Federal Republic of Germany.

ROJAS DE MORENO DIAZ, Maria Eugenia; Colombian politician; b. 1934; d. of the late Gen. Gustavo Rojas Pinilla (Pres. of Colombia 1953-57); m. Samuel Moreno Díaz; two s.; mem. of the Senate; Majority Leader, Bogotá City Council; Leader, Alianza Nacional Popular (ANAPO). *Address:* El Senado, Bogotá, D.E., Colombia.

ROLANDIS, Nicos A.; Cypriot barrister, company executive and politician; b. 10 Dec. 1934, Limassol; m. Lelia Aivaliotis; one s. two d.; ed. Pancyprian Gymnasium Nicosia, Middle Temple London; called to the bar, Middle Temple 1956; practised law in Cyprus for a short time then entered business; exec. positions with many industrial and commercial cos.; active in politics 1976-, founder mem. Democratic Camp (now Democratic Party); shareholder in newspaper Eleftheri Kypros; Minister of Foreign Affairs March 1978-. *Address:* Ministry of Foreign Affairs, Nicosia; Vasilissis Amalias 8A, Nicosia, Cyprus (Home). *Telephone:* 402101 (Office); 45039 (Home).

ROLDÓS AGUILERA, Jaime; Ecuadorian politician. Prof. of Law; Pres. Cand. of Concentración de Fuerzas Populares (CFP) 1978-79; Pres. (elect) of Ecuador Aug. 1979-. *Address:* Oficina del Presidente, Quito. Ecuador.

ROLL, Baron (Life Peer), cr. 1977, of Ipsden in the County of Oxford; **Eric Roll,** K.C.M.G., C.B., PH.D., B.COM.; British banker and former civil servant; b. 1 Dec. 1907, Austria; s. of Mathias and Fany (Frendel) Roll; m. Winifred Taylor 1934; two d.; ed. Univ. of Birmingham; Asst. Lecturer, Univ. Coll., Hull 1930, Prof. of Econs. and Commerce 1935-39; Special Fellow, Rockefeller Foundation 1939-41; Deputy mem., Combined Food Bd. 1941-46; Asst. Sec. Ministry of Food 1946-47, The Treasury 1947, Under-Sec. 1948-53; Chair. Econ. Cttee., OEEC 1948-53; Minister, U.K. del. to NATO 1952-53; Under-Sec. Ministry of Agric., Fisheries and Food 1953-57; Exec. Dir. Int. Sugar Council 1957-59; Deputy Sec. Ministry of Agric., Fisheries and Food 1960-61; Deputy Leader, U.K. del. to EEC Brussels Conf. 1961-63; Econ. Minister and Head of U.K. Treasury del., Washington 1963-65; Exec. Dir. for U.K., IMF, Perm. Under-Sec. of State, Dept. of Econ. Affairs 1964-66; Chair. S. G. Warburg & Co. Ltd. 1974; Chair. Mercury Securities 1974-; Dir. Chrysler (U.K.) Ltd., Times Newspapers Ltd., Bunzl Pulp & Paper Ltd.; Chair. NEDC Cttee. on Finance for Industry Dec.1975-; Hon. Chair. Book Devt. Council; Chancellor, Southampton Univ. 1974–; Hon. D.Sc. (Hull, Birmingham), Hon. LL.D. (Southampton). *Publications:* An Early Experiment in Industrial Organization 1930, Spotlight on Germany 1933, About Money 1934, Elements of Economic Theory 1935, Organized Labour (co-author) 1938, The British Commonwealth at War (co-author) 1943, The Combined Food Board 1957, The World after Keynes 1968, A History of Economic Thought 1973, Uses and Abuses of Economics 1979. *Leisure interests:* reading, music. *Address:* c/o S. G. Warburg and Co., Ltd., 30 Gresham Street, London, EC2B 2EP, England.

ROLL, Lyle Charles; American business executive; b. 13 Sept. 1907, Easton, Ill.; ed. Illinois Wesleyan Univ. Kellogg Co. 1927-, Sales Man. Kellogg Co. of Canada 1947-49, Asst. to Pres. Kellogg Co. 1949-52, Vice-Pres. 1952, Exec. Vice-Pres. 1953-57, Pres. Gen. Man. 1957-68, Chair. and Chief Exec. 1963-73, Vice-Chair. and Chair. Exec. Cttee. 1973-; Dir. Consumers Power Co., Grocery Mfrs. of America, J. M. Smuckers Co.; Trustee, W. K. Kellogg Foundation; Dir. The Banker's Life, Des Moines, Iowa. *Address:* Kellogg Company, Battle Creek, Mich. 49016, U.S.A.

ROLLEFSON, Ragnar, M.A., PH.D.; American physicist; b. 23 Aug. 1906, Chicago, Ill.; s. of Carl J. and Marie (Krohn) Rollefson; m. Erna Brambora 1936; two s. two d.; ed. Univ. of Wisconsin; Instructor in Physics, Univ. of Wisc. 1930-36, Asst. Prof. 1936-42, Assoc. Prof. 1942-46, Prof. 1946-76, Emer. 1976-, Chair. Physics Dept. 1947-51, 1952-56, 1957-61; with Radar Laboratory, M.I.T. 1942-45; Chief Scientist, Naval Research Laboratory Field Station 1946, Lincoln Lab. M.I.T. 1951-52, Chief Scientist, U.S. Army 1956-

57; Acting Dir. Univ. Research Assen. Devt. Laboratory 1957-60; Dir. Int. Scientific Affairs, State Dept. 1962-64. *Leisure interests:* sports, travel. *Address:* Department of Physics, University of Wisconsin, Madison, Wis. (Office); 4206 Wanetah Trail, Madison, Wis., U.S.A. (Home). *Telephone:* 274-0635.

ROLLIER, François; French motor executive; b. 2 Feb. 1915, Paris; m. five c.; ed. Faculté de Droit, Paris; admitted to Annecy Bar; joined Soc. Michelin 1956; Man. Cie. Générale des Etablissements Michelin, Manufacture Française des Pneumatiques Michelin; Deputy Chair. Citroën S.A. June-Dec. 1970, Chair. 1971-76; Pres. Soc. de Participation et de Développement Industriel (PAREDI) 1971-; Pres., Dir.-Gen. Citroën Hispania 1973-76; Dir. Banque Nat. de Paris 1973-75, Cie. Financière Michelin, Geneva, Soc. Aussedat-Rey 1976-. *Address:* 19 cours Sablon, 63000 Clermont-Ferrand; 14-16 rue Singer, 75016 Paris and 12 rue Jean-Mermoz, Annecy-le-Vieux, 74000 Annecy, France.

ROLLINS, Reed Clark, B.A., M.S., PH.D.; American botanist; b. 7 Dec. 1911, Lyman, Wyoming; s. of William Clarence Rollins and Clara Rachel Slade Rollins; m. 1st Alberta Fitz-Gerald 1939 (divorced 1975) 2nd Kathryn W. Roby 1978; one s. one d.; ed. Univ. of Wyoming, State Coll. of Washington, Harvard Univ.; Teaching Fellow, State Coll. of Washington 1934-36; teaching asst., summer school Univ. of Wyoming 1935, in biology, Harvard 1936-37; instructor biology, asst. curator, Dudley Herbarium, Stanford 1940-41; asst. Prof. curator 1941-47, assoc. Prof., curator 1947-48; assoc. geneticist, Guayule Research Project, Dept. of Agric. 1943-45; principal geneticist, Stanford Research Inst. 1946-47; geneticist div. rubber plant investigations, Dept. of Agric. 1947-48; Assoc. Prof., botany and Dir., Gray Herbarium, Harvard Univ. 1948-54; Asa Gray Prof. of Systematic Botany, Dir., Gray Herbarium 1948-78; Supervisor, Bussey Inst., Harvard Univ. 1954-68; Fellow, Soc. of Fellows, Harvard Univ.; mem. N.A.S., American Soc. of Naturalists (Vice-Pres. 1960, Pres. 1966), A.A.A.S. American Inst. of Biological Sciences, Genetics Soc. of America; Chair. Inst. of Plant Sciences, Harvard Univ. 1965-69, Botnay section 1977-; Chair. Admin. Cttee. Farlow Library and Herbarium, Harvard Univ. 1974-78; Centenary Medal, French Botanical Soc., Certificate of Merit, Botanical Soc. of America, Congress Medals XI and XII Int. Botanical Congress. *Publications:* Revised edition of Fernald and Kinsey's Edible Wild Plants of Eastern North America, The Genus Lesquerella (Cruciferae) in North America (with E. Shaw), articles and technical papers in professional journals. *address:* Gray Herbarium, 22 Divinity Avenue, Cambridge, Mass. 02138 (Office); 19 Chauncy Street, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 617-495-2364 (Office); 617-876-5442 (Home).

ROLSHOVEN, Hubertus, DR. ING; German mining executive and administrator; b. 15 Feb. 1913, Schellerten; s. of Franz and Therese (Meulenbergh) Rolshoven; m. Sofie Dorothea von Wunsch; four s.; ed. Univs. of Tübingen and Bonn, Technische Hochschulen Aachen and Berlin; Engineer, Bochum 1945-47; Works Man. Consolidation Colliery, Gelsenkirchen 1947-53; Man. Mining Works, Essen 1953-56; Man. Dir. Management Board, Hansa Bergbau A.G., Dortmund 1956-57; Chair. of Management Board Saarbergwerke A.G., Saarbrücken 1957-69; Prof. Saarland Univ.; Dir. European Acad. Otzenhausen; Pres. Inst. für regional-politische Zusammenarbeit in innergemeinschaftlichen Grenzräumen, VDI-Gesellschaft Energietechnik. *Publications:* Beobachtungen über die Geologie des Kunnitales und des oberen Ramistales im Cercergebirge 1939, Der Steinkohlenbergbau an der Saar 1960, Wirtschaftsgrundlagen im Montandreieck Saar-Lothringen-Luxemburg 1965, Das Industriedreieck Saar-Lothringen-Luxemburg, Rohstoffwirtschaft und Rohstoffpolitik 1968, Rohstoffe für die Welt von morgen, Mineralrohstoffe Grundlage der Industriewirtschaft 1972, Energierohstoffe-Mangel oder Überfluss? 1978. *Leisure interests:* hunting, riding. *Address:* Am Blauberg 1, 6600 Saarbrücken, Federal Republic of Germany. *Telephone:* 405-3203.

ROMAN, Herschel Lewis, PH.D.; American professor of genetics; b. 29 Sept. 1914, Szumsk, Poland; s. of Isadore Roman and Anna Bluwstejn; m. Caryl Kahn Roman 1938; two d.; ed. Univ. of Missouri; Instructor to Prof. of Botany, Univ. of Washington, Seattle, Wash. 1942-52; Prof. of Botany, Univ. of Washington, 1952-59, Prof. and Chair. Dept. of Genetics 1959-; mem. N.A.S., American Acad. of Arts and Sciences; Pres. Genetics Soc. of America 1968; Guggenheim Fellow, Univ. of Paris 1952-53, Fullbright Scholar 1956-57; Visiting Prof. Australian Nat. Univ., Canberra 1966. *Publications:* papers on cytogenetic studies in maize 1947-51, on the genetics of yeast 1951-. *Leisure interests:* gardening, tourism. *Address:* Department of Genetics, University of Washington, Seattle, Wash. 98105; 5619 77th, N.E., Seattle, Wash. 98115, U.S.A. (Home). *Telephone:* 206-543-1657 (Office); 206-LA5-8224 (Home).

ROMANOV, Aleksandr Iosifovich; Soviet diplomatist; b. 18 Oct. 1912, Shchepino, Vladimir Region; m.; two d.; ed. Higher Engineering and education in the Humanities; former Engineer; Foreign Service 1946-, Ministry of Foreign Affairs, and Minister-Counsellor, London 1960-64; Amb. to Nigeria 1964-70; Ministry of Foreign Affairs 1970-73; Amb. to Netherlands 1973-. *Address:* Andries Bickerweg 2, The Hague, The Netherlands. *Telephone:* 333875.

ROMANOV, Aleksey Vladimirovich; Soviet journalist and politician; b. 16 Feb. 1908, Byelev, Tula Region; ed. Higher Literary Courses and Higher Party School; mem. CPSU 1939-; successively journalist, Sec. Pravda, Editor Gorkovskaya Kommuna, and Sovyetskaya Byelorussia 1929-49; Deputy Chief Ed. For ■ Lasting Peace, For ■ People's Democracy 1949-55; on staff of Cen. Cttee. CPSU 1955-65; mem. Bureau Cen. Cttee. of R.S.F.S.R. 1961-72; Chair. State Cttee. on Cinematography 1963-72; Ed.-in-Chief Sovyetskaya Kultura 1972-; Cand. mem. Cen. Cttee. CPSU 1961-; Deputy to U.S.S.R. Supreme Soviet 1962-74; Order of Lenin. *Address:* Sovyetskaya Kultura, 73 Novoslobodskaya ulitsa, Moscow, U.S.S.R.

ROMANOV, Grigoriy Vasilyevich; Soviet politician; b. 7 Feb. 1923; ed. Leningrad Shipbuilding Inst.; mem. of CPSU 1944-; Army service 1941-45; Designer, head of section, construction bureau, Ministry of Shipbuilding Industry 1946-54; Party official 1954-61; Sec. Leningrad City Cttee. CPSU 1961-62; Sec. Leningrad Region Cttee. CPSU 1962-70; First Sec. 1970-; mem. CPSU Cen. Cttee. 1966-, Cand. mem. Politburo 1973-76, mem. March 1976-; Deputy to U.S.S.R. Supreme Soviet 1966-, mem. Presidium 1970-; Order of Lenin and various decorations. *Address:* Leningrad Region Committee of the CPSU, Leningrad, U.S.S.R.

ROMANOV, Pavel Konstantinovich; Soviet publishing official; b. 1913; ed. Leningrad Inst. of Transport Engineering, and Higher Party School, Moscow; with Soviet Army 1941-45; Staff of CPSU Cen. Cttee. 1945-57; fmr. Head of Glavlit (censorship org.) until 1963; Chair. State Cttee. on the Press and Publishing 1963-65, First Deputy Chair. 1965-. *Address:* State Committee ■■ the Press and Publishing, 26 Petrovka, Moscow, U.S.S.R.

ROMANOVSKY, Sergey Kalistratovich; Soviet politician and diplomatist; b. 21 Oct. 1923, Novoseltsy, Rudnya District, Smolensk Region; ed. Moscow Inst. of Int. Relations; Deputy Chair. U.S.S.R. Cttee. for Youth Orgs. 1948-57; Sec. of Komsomol (Young Communist League) 1957-59; Deputy Minister of Culture, U.S.S.R. 1959-60; Deputy Chair. Cttee. for Cultural Relations with Foreign Countries 1960-62, Chair. 1962-67; Chair. U.S.S.R. Comm. for UNESCO 1962-68; Amb. to Norway 1968-75; Deputy to U.S.S.R. Supreme Soviet until 1970. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

ROMANSKY, Monroe James, M.D., F.A.C.P.; American physician and professor of medicine; b. 16 March 1911, Hartford, Conn.; s. of Benjamin Romansky and Henrietta Levine Romansky; m. Evelyn Muriel Lackman 1943; four s.; ed. Univ. of Maine, Univ. of Rochester School of Medicine; Intern, Strong Memorial Hosp., Univ. of Rochester, N.Y. 1937-38, Asst. Resident 1938-39, Chief Resident 1940-41; James Gleason Research Fellow, Univ. of Rochester 1939-40; Instructor, Investigator for Surgeon Gen. U.S. Army, at Univ. of Rochester 1941-42; Medical Corps, U.S. Army 1942-46; Chief of Biochem. and Antibiotic Research, Walter Read Army Hosp., Washington, D.C. 1942-46; Assoc. Prof. George Washington Univ. School of Medicine 1946-57; Prof., George Washington Univ. Medical Center 1957-, Dir. of Infectious Diseases Div. and Research Lab. 1950-69; Dir. George Washington Univ. Medical Div. at D.C. Gen. Hosp. 1950-69; Consultant, Walter Reed Army Hosp. 1946-, Veterans Admin. Hosp. 1952-, Nat. Inst. of Health 1953-, to Surgeon Gen. U.S.A.F. 1966-; mem. Editorial Board, Antimicrobial Agents and Chemotherapy 1961-72; mem. Trustees Council, Univ. of Rochester 1965-; Diplomate, American Board of Internal Medicine, Examiner 1965, 1967, 1969; mem. Infectious Diseases Soc. (Founding Council 1963-66), American Soc. of Internal Medicine, American Fed. for Clinical Research, Soc. for Experimental Biology and Medicine, American Soc. of Microbiology, Soc. of Medical Consultants to Armed Forces, Washington Acad. of Medicine; Army Legion of Merit. *Publications:* numerous publs. on subjects in antibiotics and infectious diseases. *Address:* 5480 Wisconsin Avenue, Washington, D.C. 20015 (Office); 6609 32nd Place, N.W., Washington, D.C. 20015, U.S.A. (Home). *Telephone:* (301) 652-5000 (Office); (202) EM 2-4567 (Home).

ROMANUS, Sven Einar; Swedish judge; b. 19 Jan. 1906, Karlstad; s. of Anton and Reidunn (Lindboe) Romanus; m. Alfhild Sandfaerhus 1932; one s. two d.; ed. Univ. of Stockholm; Justice,

Supreme Court 1951-69, Chief Justice 1969-73; Minister of Justice 1976-; Commdr. Grand Cross, Order of North Star. *Address:* Kummelvaegan 14, 16139 Bromma, Sweden. *telephone:* 08-25 98 62.

ROMÁNY, Pál, D.SC.; Hungarian agronomist and politician; s. of Pál Romány and Jolán Tasi; m. Erzsébet Markó 1957; one d.; ed. Gödöllö Univ. of Agronomy; joined Hungarian CP 1949; various posts in Ministry of Agric. and in State Farm Admin., Pest-Nógrád County 1952-58, later Chair. Board for State Farms, Borsod-Heves County; Deputy Leader, Dept. of Political Econ., Hungarian Socialist Workers' Party, Sec. Cen. Cttee. Board on Co-operative Policy 1967-70, Pres. 1974-75; First Sec. Bács-Kiskun County Cttee. 1970, mem. Cen. Cttee. 1970-, Head of Cen. Cttee. Dept. for Regional Econ. Devt. 1973-75; Minister of Agric. and Food 1975-; Chair. Comm. for Agric. History, Hungarian Acad. of Sciences 1971-; Gold Award, Labour Order of Merit 1967, 1975; Tessedik Sámuel Memorial Medal 1973. *Leisure interest:* swimming. *Address:* Ministry of Agriculture and Food, 1055 Budapest, Kossuth L. tér 11, Hungary. *Telephone:* 113-000.

ROMEO LUCAS GARCIA, Gen. Fernando; Guatemalan politician; Minister of Defence 1975-77; Pres. of Guatemala March 1979-. *Address:* Oficina del Presidente, Guatemala City, Guatemala.

ROMERO, Gen. Carlos Humberto; Salvadorian army officer and politician; b. Chalatenango; s. of late José María Romero and of Victoria Mena de Romero; m. Gloria Guerrero de Romero; two s. two d.; ed. Capitán General Gerardo Barrios Mil. School, Escuela de Armas y Servicios, Escuela de Comando y Estado Mayor Manuel Enrique Araujo; Section Commd., Adjutant, and Paymaster, Capitán Gen. Gerardo Barrios Mil. School and other mil. bodies; Regt. Commdr. Cavalry; Second Officer 1st Infantry Regt.; Sub-Dir. Escuela de Armas y Servicios and Head Dept. Personnel, Gen. Staff Armed Forces; Mil. Attaché to Embassy, Mexico; Head of Staff of Presidency of Repub.; Minister Defence and Public Security; Pres. Cen. American Defense Council 1973-77; Pres. of Repub. of El Salvador July 1977-; del. 7th Conf. of American Armies 1966, 2nd Conf. of Cen. American Defense Council 1960, 6th Conf. of American Intelligence Officials 1967; Partido de Conciliación Nacional. *Address:* Oficina del Presidente, Casa Presidencial, San Salvador, El Salvador.

ROMERO-BARCELÓ, Carlos Antonio, LL.B.; Puerto Rican lawyer and politician; b. 4 Sept. 1932, San Juan, Puerto Rico; s. of Antonio Romero-Moreno and Josefina Barceló-Bird; m. 1st, two s.; m. 2nd Kathleen Donnelly 1966, one s. one d.; ed. Phillips Exeter Acad., N.H., Yale Univ., Univ. of Puerto Rico; admitted to bar, San Juan, Puerto Rico 1956; Pres. Citizens for State 1951, 1965-67; Mayor of San Juan 1969-77; Pres. New Progressive Party 1974-, Nat. League of Cities 1974-75; Gov. of Puerto Rico Jan. 1977-; Hon. LL.D. (Univ. of Bridgeport, Conn.) 1977. *Publications:* Statehood is for the Poor 1973. *Leisure interests:* reading, horse riding, boxing, baseball. *Address:* La Fortaleza, San Juan, Puerto Rico 00901. *Telephone:* (809) 724-2100.

ROMITA, Pier Luigi, DR.ENG.; Italian politician; b. 27 July 1924, Turin; s. of Giuseppe Romita and Maria Stella; m. Antonia Magri 1961; one d.; ed. University of Rome; mem. Italian Parl. 1958-; Prof., Milan Univ. 1963-; Under-Sec. for Public Works 1963, for Public Educ. 1966, for Internal Affairs 1968, for Public Educ. 1970; Minister of Scientific and Technological Research 1972-73; Sec.-Gen. Partido Socialista Democratico 1976-78. *Address:* c/o Partido Socialista Democratico, Via Santa Maria in Via 12, 00187, Rome, Italy.

ROMNEY, George Wilcken; American businessman and politician; b. 8 July 1907, Chihuahua, Mexico; s. of Gaskell and Anna (Pratt) Romney; m. Leonore La Fount 1931; two s. two d.; ed. Latter-Day Saints Univ. and Univ. of Utah; Mormon missionary in U.K. 1927-28; Tariff Specialist to U.S. Senator David I. Walsh 1929; joined Aluminum Co. of America 1929, later its Rep. and also of Aluminum Wares Assen., Washington, D.C.; Detroit Man. Automobile Mfrs'. Assen. 1939, Gen. Man. 1942-48; Man. Dir. Automotive Council for War Production 1941, also connected with Automotive Council for Air Defense; U.S. Employer del. to ILO Metal Trades Industries Confs. Toledo (Ohio), Stockholm and Geneva 1946-49; Asst. to Pres. Nash-Kelvinator Corpn. 1948-50, Vice-Pres. 1950-54, Exec. Vice-Pres. and Dir. 1954; Pres. and Chair. American Motors Corpn. (successor co. to Nash-Kelvinator Corpn.) 1954-62; Gov. of Michigan 1963-68; U.S. Sec. of Housing 1969-72; Chair., Nat. Cen. for Voluntary Action 1973-; fmr. Chair., Redisco Inc.; Dir., Redisco of Canada Ltd., Kelvinator Ltd. (Great Britain), Kelvinator of Canada Ltd., American Motors of Canada Ltd., Douglas Aircraft Corpn.; numerous awards include Vermilye Medal (Franklin Inst. of Philadelphia) 1959; fmr. Pres., Detroit Stake, Church of Jesus Christ of Latter Day Saints (Mormon); Hon. LL.D. (Wayne State Univ. and Brigham Young Univ.); Industry's "Man of the Year", Associated Press 1958, 1959, 1960; Republican. *Address:* National Center for Voluntary Action, 1735 I Street, N.W., Washington, D.C. 20006; East Valley Road, Bloomfield Hills, Mich. 48013, U.S.A. (Home).

ROMPE, Robert, DR.PHIL.; German physicist; b. 10 Sept. 1905, St. Petersburg (now Leningrad), Russia; ed. Technical Univ., Berlin-Charlottenburg and Bonn Univ.; mem. CP 1932, Socialist Unity Party (SED) 1946-; Head of High Schools and Science Section, Cen. Admin. for Education 1945-; Prof. of Physics and Dir. II Physical Inst. of Humboldt Univ., Berlin 1946-; mem. G.D.R. Acad. of Sciences and Dir. of its Inst. für Strahlungsquellen 1949-58; mem. Exec. Cttee. Forschungsgemeinschaft der naturwissenschaftlichen, technischen und medizinischen Institut, G.D.R. Acad. of Sciences; mem. Research Council of G.D.R.; Deputy Pres. Council for Peaceful Use of Atomic Energy; mem. Cen. Cttee. SED 1958-; Chair. Physics Soc. G.D.R.; Foreign mem. Czechoslovak Acad. of Sciences; Nat. Prize 1951; Vaterländischer Verdienstorden in Silver and Gold; Euler Medal of U.S.S.R. Acad. of Sciences 1957 and other decorations. *Address:* Ekhoffstrasse 27, Berlin-Köpenick, German Democratic Republic.

ROMUALDEZ, Eduardo Z.; Philippine financial administrator and diplomatist; b. 22 Nov. 1909, Tolosa, Leyte; m. Concepción A. Veloso; ed. Univs. of the Philippines and Santo Tomás, and Georgetown Univ., Washington, D.C.; Pres. Bankers Assen. of the Philippines 1950-53; Dir. Chamber of Commerce of the Philippines 1950-52; Vice-Pres. American Bankers' Assen. 1951-56; Chair. Board of Dirs., Philippine Air Lines (PAL) 1954-62, Pres. 1961-62; Alt. Gov. IMF 1956-61, IBRD 1956-61, IFC 1957-61; Pres. Philippine Trust Co. 1947-54, 1962-, Fidelity and Surety Co. of the Philippines Inc. 1947-54, 1962-; Sec. of Finance, Repub. of the Philippines 1965-70; Chair. Asian Devt. Bank 1967-68; Amb. to U.S.A. 1971- (also accred. to Dominican Repub.); mem. numerous cttees., etc., and del. to many int. confs. *Address:* Embassy of the Philippines, 1617 Massachusetts Avenue, N.W., Washington, D.C. 20036, U.S.A.

ROMULO, Brig.-Gen. Carlos Peña; Philippine writer, educator, diplomatist and politician; b. 14 Jan. 1899; m. 1st Virginia Romulo 1924 (died 1968), 2nd Beth Day 1979; ed. Univ. of the Philippines and Colombia Univ.; Assoc. Prof. of English, Univ. of the Philippines 1926-30, mem. Board of Regents 1931-41; Ed.-in-Chief TVT Publications 1931, Publisher DMHM Newspapers 1937-41; Staff of Gen. MacArthur and Sec. of Information and Public Relations, Philippine War Cabinet in U.S.A. 1943-44, Brigadier Gen. 1944; Acting-Sec. of Public Instruction 1944-45, Chief del. to UN 1945-55, Pres. Gen. Assembly 1949-50, Security Council 1957; Sec. of Foreign Affairs 1950-52; Amb. to the U.S.A. 1952-53, 1955-62, Special Envoy 1954-55, concurrently Minister to Cuba 1959; Pres. Univ. of the Philippines 1962-68, Philippine Acad. of Sciences and Humanities; Presidential Adviser on Foreign Affairs; Sec. Dept. of Educ. 1966-68; Sec. of Foreign Affairs 1968-; numerous decorations, honours, hon. degrees and awards. *Publications:* I saw the Fall of the Philippines 1942, Mother America 1943, My Brother Americans 1945, Crusade in Asia 1955, The Meaning of Bandung 1956, The Magsaysay Story 1956, Friend to Friend 1958, I Walked with Heroes (An Autobiography) 1961, Contemporary Nationalism and World Order 1964, Mission to Asia 1964, Identity and Change 1965, Evasions and Response 1966, The University and External Aid 1967, Clarifying the Asian Mystique 1969. *Address:* Department of Foreign Affairs, Padre Faura, Manila; and 74 McKinley Road, Forbes Park, Makati, Rizal, Philippines.

RONAN, Sean G., M.A., LL.B.; Irish civil servant; b. 11 Jan. 1924, Cork; s. of John Ronan and Mary Hogan; m. Brigid Teresa McGuinness 1949; one s. three d.; ed. Nat. Univ. of Ireland, Univ. Coll., Dublin; Exec. Officer Revenue Commrs. 1942-46; Admin. Officer Ministry of Finance 1946-49; Third Sec. Ministry of Foreign Affairs 1949-51, First Sec. 1951-55; Consul-Gen., Chicago 1955-60; Counsellor Ministry of Foreign Affairs 1960-64; Asst. Sec.-Gen. for Political, UN and Cultural Affairs and Information, Ministry of Foreign Affairs 1964-72; Amb. to Fed. Repub. of Germany 1972-73; Dir.-Gen. for Information, Comm. of European Communities 1973-77; Great Order of Merit with Star of Fed. Rep. of Germany 1973. *Leisure interests:* literary and cultural. *Address:* c/o The Ministry of Foreign Affairs, 80 St. Stephens Green, Dublin 2, Ireland.

RONCHI, Vasco; Italian professor of physics; b. 19 Dec. 1897, Florence; s. of Giorgio Ronchi and Maria Bartoli; m. Edda Suckert 1926; two d.; ed. Univs. of Pisa and Florence and Scuola Normale Superiore, Pisa; Army service 1915-19; Reader, Inst. of Physics, Florence Univ. 1920-27; Founder-Dir. Istituto Nazionale di Ottica di Firenze-Arcetri 1927-; Pres. of Council, Int. Union of History and Philosophy of Science of ICSU 1957-69; Pres. Italian Optical

Assn. 1939-, Assn. of Astronautical Sciences 1956-, Italian Group of Scientific History 1957-, Giorgio Ronchi Foundation 1945-, Industrial School Benvenuto Cellini 1943-, Ignazio Porro Foundation 1967; mem. of numerous cttees. of Consiglio Nazionale delle Ricerche and int. comms.; mem. numerous nat. and int. acads.; Fellow Optical Soc. of America; Chevalier, Légion d'honneur, France; Cavaliere di Gran Croce dell'Ordine al Merito, Italy; numerous medals. *Major work:* Inventor of Ronchi test for interferential testing of optical instruments. *Publications:* Lezioni di Ottica Ondulatoria, Storia della luce, Optics, the Science of Vision, Critica dei fondamenti dell'acustica e dell' ottica, Sul modo di sperimentare, Galileo e il suo cannocchiale, The Nature of Light, New Optics, Two Thousand Years of Conflict between Reason and Sense, Perspective based on New Optics, etc. *Address:* 1 Largo E. Fermi, 50125 Florence, Italy. *Telephone:* 23-11-63.

ROOD, Henry Fairbank, A.B., A.M.; American insurance executive; b. 14 Sept. 1906, Port Chester, N.Y.; s. of Henry Martin Rood and Grace S. F. (Mellen) Rood; m. Ruth N. winchester 1929; three s.; ed. Oberlin Coll. and Univ. of Michigan; with Lincoln Nat. Life Insurance Co., Fort Wayne, Ind. 1931-37, Actuary 1949-58, Second Vice-Pres. 1948-52, Vice-Pres. 1954-58, Senior Vice-Pres. 1958-64, Pres. 1964-68, Chair. and Chief Exec. Officer Lincoln Nat. Corpn. 1968-71, Hon. Chair. 1972-; Hon. Chair., Lincoln Nat. Life Insurance Co. of New York 1972-; Chair. American States Insurance Co., American Economy Insurance Co., American States Life Insurance Co., American Union Insurance Co. of New York, American States Insurance Co. of Texas 1968-71; Dir. N. Atlantic Reassurance Co., Paris 1963-71, Dominion-Lincoln Assurance Co., London 1965-71, Lincoln Nat. Bank & Trust Co., Fort Wayne 1965-; Chicago Title and Trust Co. 1970-71; LNC Devt. Corpn. and LNC Land Sales Inc.; Fellow, Soc. of Actuaries 1937-, Past Pres. 1966-67; mem. Indiana Acad. 1977; official of numerous other insurance orgs.; U.S. Naval Reserve 1943-46; Distinguished Hoosier Award 1971. *Leisure interests:* reading, bridge, golf. *Address:* 5505 Old Mill Road, Fort Wayne, Ind. 46807, U.S.A. *Telephone:* 219-744-5363.

ROOD, Johannes (Jon) Joseph Van, PH.D., M.D.; Netherlands immunologist; b. 7 April 1926, The Hague; s. of Albert van Rood and Rientje Röell; m. Sacha Bsse. van Tuyll van Serooskerken 1957; one s. two d.; ed. Univ. of Leiden; worked in bloodbanking 1952-; in charge of Bloodbank and foundation of Dept. of Immunohaematology, Univ. Hospital, Leiden 1957; work in tissue typing 1958–; worked on antibody synthesis in Public Health Research Inst., New York 1962; Lecturer in Immunohaematology, Univ. of Leiden 1965-, Prof. in Internal Medicine 1969-; Founder Eurotransplant 1967. *Publications:* Leukocyte Antibodies in Sera of Pregnant Women 1958, Platelet Survival 1959, Erythrocyte Survival with DFP 32 1961, Leukocyte Groups, the Normal Lymphocyte Transfer Test and Homograft Sensitivity 1965, Platelet Transfusion 1965, The Relevance of Leukocyte Antigens 1967, A Proposal for International Co-operation: EUROTRANSPLANT 1967, Transplantation of Bone-marrow cells and Fetal Thymus in an Infant with Lymphonenic Immunological Deficiency 1969, The 4a and 4b Antigens: Do They or Don't They? 1970, Anti HL-A 2 Inhibitor in Normal Human Serum 1970, HL-A Identical Phenotypes and Genotypes in Unrelated Individuals 1970, HL-A and the Group Five System in Hodgkin's Disease 1971, The (Relative) Importance of HL-A Matching in Kidney Transplantation 1971, Simultaneous Detection of Two Cell Populations by Two Colour Fluorescence and Application to the Recognition of B Cell Determinants 1976, HL-A-linked Control of Susceptibility to Tuberculoid Leprosy and Association with HL-A-DR types 1978. *Address:* Department of Immunohaematology, University Hospital, Leiden, Netherlands. *Telephone:* 071-147222/4800.

ROOKE, Sir Denis Eric, Kt., C.B.E., B.SC.(ENG.), F.R.S.; British engineer and executive; b. 2 April 1924, London; s. of F. G. Rooke; m. Elizabeth Brenda Evans 1949; one d.; ed. Westminster City School, Addey and Stanhope School, Univ. Coll., London; served with Royal Electrical and Mechanical Engineers in U.K. and India 1944-49; joined S.E. Gas Board 1949, Asst. Mechanical Engineer 1949, Deputy Man. of Works 1954, Devt. Engineer 1959; seconded to N. Thames Gas Board 1957; mem. technical team aboard Methane Pioneer 1959; Devt. Engineer, Gas Council 1960 (name changed to British Gas Corpn. 1973), mem. for Production and Supply 1966-71, Deputy Chair. 1972-76, Chair. June 1976-; mem. Offshore Energy Tech. Board 1975-78; mem. Nat. Econ. Devt. Council (NEDC) 1976, British Nat. Oil Corpn. (BNOC) 1976, U.K. Energy Comm. 1977; Chair. Council for Nat. Academic Awards 1978; Fellow, Univ. Coll., London 1972, Inst. of Chemical Engineers, Inst. of Gas Engineers (Pres. 1975-76), Inst. of Mechanical Engineers; Hon. D.Sc. (Salford). *Publications:* numerous papers to learned socs. and professional asscns. *Leisure interests:* photography, listening to music. *Address:* British Gas Corporation, 59 Bryanston Street, London, W1A 2AZ (Office); 23 Hardy Road, Blackheath, London, SE3 7NS, England (Home). *Telephone:* 01-723 7030 (Office).

ROOM, Thomas Gerald, SC.D., F.R.S., F.A.A.; British mathematician; b. 10 Nov. 1902, London; s. of Ernest W. Room and E. Elisabeth Henry; m. Jessie Bannerman 1937; s. two d.; ed. Alleyn's School, London, St. John's Coll., Cambridge; Lecturer in Mathematics, Liverpool Univ. 1925-27; Fellow, St. John's Coll., Cambridge 1926-29; Lecturer in Mathematics, Cambridge Univ. 1927-35; Prof. of Mathematics, Sydney Univ. 1935-68, Emer. 1968–,Dean Faculty of Science 1952-56, 1960-65; Visiting Prof. of Mathematics, Univ. of Washington 1948, Univ. of Tenn. 1949, Univ. of Sussex 1966, Univ. of London 1969-70; mem. Princeton Inst. of Advanced Study 1948 and 1957; Visiting Sr. Fellow, Westfield Coll., Univ. of London 1969-70; Staff Tutor, Open Univ. 1971, Visiting Prof. 1972-74. *Publications:* Geometry of Determinantal Loci 1939, The Sorting Process 1966, A Background to Geometry 1967, Miniquaternion Geometry 1971. *Address:* High Walden, St. Ives, N.S.W. 2075, Australia. *Telephone:* (Sydney) 449-5743.

ROOS, Joseph Marie-Philippe; French public servant; b. 13 March 1906, Paris; s. of Joseph Roos and Aimée Bègue; m. Suzanne Pellet 1932; two d.; ed. Ecole Polytechnique and Ecole Supérieure Aéronautique; Dir. of Air Transport, Ministry of Public Works 1946-47; Gen. Man. Société des Usines Chausson 1947-55, Chair. 1955-61; Pres. Air France 1961-67, Hon. Pres., Dir. 1968-76; Pres. Inst. of Air Transport 1960-72; Grand Officier, Légion d'honneur, Ordre nat. du Mérite, Croix de guerre. *Address:* 37 rue Chardon-Lagache, 75016 Paris, France.

ROOSA, Robert V., A.B., M.A., PH.D.; American banker and fmr. government official; b. 21 June 1918, Marquette, Mich.; s. of Harvey Mapes Rosa and Ruth Lagerquist; m. Ruth Grace Amende 1946; two d.; ed. Univ. of Michigan; Teacher of Econs., Michigan, Harvard, M.I.T. 1939-43; Fed. Reserve Bank of New York 1946-60, Vice-Pres. Research Dept. 1956-60; Under-Sec. for Monetary Affairs, U.S. Treas. 1961-64; Chair. The Brookings Inst. 1975-, Partner Brown Bros. Harriman and Co. 1965-; Dir. American Express Co. 1966, Texaco Inc. 1969, Owens-Corning Fiberglas Corpn. 1969; Trustee The Rockefeller Foundation 1967; American Acad. of Arts and Sciences, American Philosophical Soc.; Independent Democrat. *Publications:* Money, Trade and Economic Growth (Editor) 1951, Federal Reserve Operations in the Money and Government Securities Markets 1956, Monetary Reform for the World Economy 1965, The Dollar and World Liquidity 1967, The Balance of Payments: Free Versus Fixed Exchange Rates (with Milton Friedman) 1967. *Address:* 59 Wall Street, New York, N.Y. 10005 (Office); 30 Woodlands Road, Harrison, N.Y. 10528, U.S.A. (Home). *Telephone:* 212-483 5318 (Office); 914-967-7646 (Home).

ROOSEVELT, Franklin Delano, Jr.; American lawyer and politician; b. 17 Aug. 1914; s. of the late Franklin Delano Roosevelt (31st President of the U.S.) and Eleanor Roosevelt; m. Felicia W. Warburg (divorced 1976); ed. Harvard, and Univ. of Virginia; U.S. Naval service 1941-45; mem. U.S. House of Reps. 1949-53; Pres., Roosevelt Automobile Co. 1958-63; Under-Sec. of Commerce 1963-65; Chair. Equal Employment Opportunity Comm. 1965-66; Chair. Board Fiat-Roosevelt Motors; Cand. for Gov. of New York 1966; Democrat. *Address:* Clove Creek Farm, Poughquag, N.Y. 12570, U.S.A.

ROOTES, 2nd Baron (cr. 1959) of Ramsbury; **William Geoffrey Rootes,** F.B.I.M., F.R.S.A.; British company director; b. 14 June 1917; s. of 1st Baron Rootes, G.B.E.; m. Marian Slater (née Hayter) 1946; one s. d.; ed. Harrow and Christ Church, Oxford; War Service 1939-45, R.A.S.C.; rejoined Rootes Motors 1946, Man. Dir. 1962-67, Deputy Chair. 1965-67, Chair. 1967-70; Chair. Chrysler U.K. 1967-73; Dir. First Nat. City Trust Co. (Bahamas) Ltd.; Pres. Motor and Cycle Trades Benevolent Fund 1968-70, Motor Industry Research Assn. 1970-71, Inst. of Motor Industry 1973-75; mem. Nat. Advisory Council, Motor Mfg. Industry 1964-71,Nat. Econ. Devt. Ctte., Motor Mfg. Industry 1968-73, British Nat. Export Council (Chair. American Cttee. 1969-71), Council, CBI 1967-74, Europe Cttee., CBI 1972-76, Council Inst. of Dirs., Council Warwick Univ. 1956-74, Council Soc. of Motor Mfrs. (Pres. 1960-61, Chair. Exec. Cttee. 1972-73); Dir. Joseph Lucas (Industries) Ltd. 1973-, Rank Hovis McDougall Ltd. 1973-; Chair. Game Conservancy May 1975-. *Leisure interests:* shooting, tennis, fishing. *Address:* North Standen House, Hungerford, Berks., England; Glenalmond House, Glenalmond, Perthshire, Scotland.

ROQUEMAUREL, Marquis Ithier de; French business executive; b. 15 Sept. 1914, Villetoureix, Dordogne; s. of late Marquis de Roquemaurel and Madeleine Meunier du Houssoy; m. Claude du Pouget de Nadaillac; two s. d.; ed. Collège Stanislas, Paris and

Ecole Centrale des Arts et Manufactures, Paris; pres./Dir.-Gen. Brodard and Taupin (printers) 1950-; Dir. Ancienne Société Anonyme de Rotogravure d'Art, Brussels 1954-, Librairie Hachette 1955-, Agence et Messageries de Presse, Belgium (also Pres.) 1959–,Société d'Etudes et de Publications Economiques 1962-, Réalités in America (also Pres./Dir.-Gen.) 1962-, Office d'Editions Générales-Presse 1963-; Man. F.E.P. (France Editions & Publications) 1964-; Deputy Dir.-Gen. Librairie Hachette 1964-67, Pres./Dir.-Gen. 1967-76; Man. Société de Gérance des Messageries 1967-, Télé-7 Jours 1968-; Dir. Crédit Foncier Franco-Canadien 1968-, Cie. Française d'Exploitations Commerciales 1968-, Femmes d'Aujourd'hui, Belgium 1968-, Sociedad General Española de Librería, Spain 1968-; Officier, Légion d'honneur, Ordre du Cèdre, Chevalier, Ordre de Leopold, Croix de guerre and many other decorations. *Leisure interests:* yachting, equitation, golf. *Address:* 22 rue la Boétie 75008 Paris (Office); 51 rue de Babylone, 75007 Paris, France (Home).

ROS, Enrique Jorge, LL.D.; Argentine diplomatist; b. 16 July 1927; ed. Univs. Buenos Aires and Paris; Perm. Mission to OAS 1956-58, to UN 1959-63; Chargé d'Affaires, The Hague 1965-67; Embassy, London 1967-71; Head of Mission, Peking 1973-75; Amb. to Israel 1976-77, to UN Aug. 1977-; decorations from Bolivia, Brazil, Chile, Colombia, Ecuador, Paraguay, Peru, Venezuela. *Leisure interest:* reading. *Address:* Permanent Mission of Argentina to the United Nations, 1 United Nations Plaza, 25th Floor, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 688-6300.

ROSALES, H. E. Cardinal Julio R.; Philippine ecclesiastic; b. 18 Sept. 1906, Calbayog City, Samar; ordained 1929; First Bishop of Tagbiliran 1946-49; Archbishop of Cebú 1949-; Pres. Bishops Conf. of Philippines 1961-65, 1974-76; cr. Cardinal 1969; mem. Sacred Congregation of the Clergy and Sacred Congregation of Catholic Educ., Rome; Grand Cross of Isabel la Católica (Spain), Grand Cross, Order of St. Raymundo de Pennafort, Knight Order of Corpus Christi in Toledo; LL.D. (Univ. of San Carlos), D.H. (De La Salle Coll.). *Address:* Archbishop's Residence, P.O. Box 52, Cebú City, Philippines.

ROSANIA, Lucas, D.ECON.; Italian financial executive; b. 19 March 1908, Barranquilla; m. Lea Ballini; ed. Univ. of Florence; Asst. Prof. of Financial Science and Econs., Univ. of Florence; Research Dept. Banca d'Italia 1937, Head of Dept. 1960, with Operational Dept. (dealing with securities) 1964, Gen. Man. Milan Branch 1968; mem. Cttee for Reform of the Stock Exchange, Ministry of Finance; Chair. of Cttee., Milan Stock Exchange 1968; Expert, Cttee. for the Right of Establishment of Banks in the EEC; Vice-Pres. and Vice Chair. Board of Dirs. European Investment Bank 1970-76, Hon. Vice-Pres. 1976. *Address:* 131 via Friggeri, Rome, Italy (Home). *Telephone:* 34-72-92 (Home).

RÖSCH, Jean; French astronomer; b. 5 Jan. 1915; s. of Dr. Gabriel Rösch and Lucile Forgues; m. Raymonde Postel 1937; ed. Lycée in Algiers and Ecole Normale Supérieure, Paris. Astronomical Asst. Observatory of Bordeaux 1940-43, Asst. Astronomer 1943-47, Dir. Pic du Midi Observatory (now Observatoires du Pic du Midi et de Toulouse) 1947-; Lecturer, Univ. of Bordeaux 1943-63; Prof. of Astronomy, Univ. de Paris à la Sorbonne (now Univ. Pierre et Marie Curie) 1964-; research on astronomical subjects including binocular vision, the solar system and telescopic images. and choice of sites for observatories; Pres. and mem. numerous astronomical comms.; Pres. Soc. Astronomique de France 1966-69; Corresp. Bureau des Longitudes 1968-; Chevalier Légion d'honneur; Prix Benjamin Valz 1942, Médaille Janssen 1944, Prix Ancel, Acad. des Sciences 1971, Prix des Trois Physiciens 1974. *Publications:* Numerous works on astronomy. *Leisure interest:* mountaineering. *Address:* Observatoires du Pic du Midi et de Toulouse, 65200 Bagnères-de-Bigorre; and Institut d'Astrophysique, 98 bis boulevard Arago, 75014 Paris, France. *Telephone:* 62-95-00-69.

RÖSCH, Otto; Austrian politician; b. 24 March 1917, Vienna; s. of Otto and Marie (née Gusenbauer) Rösch; m. Elfriede Rösch 1938 (dissolved); one s. three d.; ed. Volksschule, Vienna, Bundeserziehungsanstalt Traiskirchen, and Univs. of Vienna and Graz. Mil. service 1940-45; Sec. (for region of Styria) to Assen. of Socialist Municipal Reps. 1949; mem. Bundesrat 1951; mem. Styrian Ass. 1953; mem. Lower Austrian Assembly and Sec. of State, Fed. Ministry of Defence 1959-66; mem. Lower Austrian Provincial Govt. 1966; Fed. Minister of Interior 1970-77; Minister of Defence June 1977-; Grosses Silbernes Ehrenzeichen, Silbernes Komturkreuz Socialist Party. *Publications:* articles in the press and political documents. *Leisure interests:* films, skiing. *Address:* Bundesministerium für Landesverteidigung, Vienna, Austria.

ROSE, Bram, M.D., PH.D., F.R.S.(C.); Canadian physician; b. 21 April 1907; m. Rosa Mary Johnson 1940; two s. one d.; ed. Westmount High School and McGill Univ. Research Asst. McGill Univ. Clinic 1936-39, Research Assoc. 1939-40; R.C.A.F. 1940-46; Asst. Physician, Royal Victoria Hospital, Montreal 1942; Asst. Prof. of Medicine, McGill Univ. Clinic 1950; Assoc. Physician Royal Victoria Hospital 1951; Assoc. Prof. of Medicine, McGill Univ. Clinic 1955; Physician, Royal Victoria Hospital 1961; Prof. of Experimental Medicine, McGill Univ. Clinic 1963-75, Prof. Emer. 1978-; Consultant in Allergy and Dir. of Allergy Lab., Queen Mary Veterans Hospital 1949-; Hon. Consultant in Medicine, Jewish Gen. Hospital, Montreal 1957-; Regional Cons., Jewish Nat. Home for Asthmatic Children, Denver 1959-; Dir. Div. of Immunochemistry and Allergy, Univ. Clinic, Royal Victoria Hospital 1955-; fmr. Pres. Canadian Soc. of Immunology; Past Pres. of Canadian and American Acads. of Allergy, Int. Assen. of Allergology; mem. Training Grant Cttee., Nat. Inst. of Allergy and Immunology, Nat. Inst. of Health, Bethesda, Maryland; Centennial Medal 1967, Jubilee Medal 1977. *Publications:* Over 150 works, on histamine, cardiac catheterization, metabolism, shock, (blackout) acceleration in aircraft, ACTH, cortisone, immunoglobulins, and immune mechanisms in disease; Section Editor of Immunological Diseases 1966, 1971, 1978. *Leisure interests:* music, skiing, electronics. *Address:* Division of Immunochemistry and Allergy, 11th Floor Medical Wing, Royal Victoria Hospital, Montreal 2, Quebec (Office); 3 Magog, Quebec J1X 3W4, Canada (Home). *Telephone:* (819) 843-5817.

ROSE, Eliot Joseph Benn; British publisher; b. 7 June 1909, London; s. of Col. E.A. and Mrs. Julia E. Rose; m. Susan P. Gibson 1946; one s. one d.; ed. Rugby, and New Coll., Oxford; served R.A.F. 1939-45; Literary Ed. The Observer 1948-51; Dir. Int. Press Inst., Zürich 1952-62; Dir. Survey of Race Relations in Britain 1963-69; Editorial Dir., Westminster Press 1970-74; Chair., Penguin Books Ltd., Viking Penguin Inc. *Publications:* Colour and Citizenship 1969. *Leisure interest:* music. *Address:* 37 Pembroke Square, London, W.8, England. *Telephone:* 01-937 3772.

ROSE, Comte François de Tricornot de; French diplomatist (retd.); b. 3 Nov. 1910; m. Yvonne Daday 1933; two d.; ed. Ecole Libre des Sciences Politiques, Paris. Sec. Embassy to U.K. 1937-40, Italy 1945-46; mem. French del. to UN 1946-50; Minister to Spain 1952-56; Ministry of Foreign Affairs, Paris 1956-60; mem. Atomic Energy Comm. (Paris) 1950-64; Pres. European Nuclear Research Org. (CERN) 1958-60; Deputy Chief of Staff, Nat. Defence 1961-62; Amb. to Portugal 1964-69; amb. and Perm. Rep. to North Atlantic Council 1970-75; Amb. de France; mem. Board Int. Inst. Strategic Studies (London); mem. Trilateral Comm. (European Group); Vice-Pres. French Red Cross; Pres. Soc. Nouvelle Pathé Cinéma, SCANIA (France); Officier Légion d'honneur, Croix de guerre. *Publications:* La France et la défence de l'Europe 1976. *Leisure interests:* golf, skiing, shooting. *Address:* 5 rue du Faubourg Saint-Honoré, 75008 Paris, France (Home).

ROSE, Leonard; American cellist; b. 27 July 1918, Washington, D.C.; s. of Harry Rose and Jennie Frankel Rose; m. Xenia Petschek Rose 1965; one s. one d.; ed. Miami, Florida, Curtis Inst. of Music. Asst. Solo Cellist, NBC Symphony Orchestra 1938; Solo Cellist, Cleveland Orchestra 1939-43, New York Philharmonic Orchestra 1943-51; Cello Teacher, Juilliard School 1943-, Curtis Inst. 1951-62; Cello soloist in recitals and with most major orchestras in N. and S. America, Europe, Middle East, Far East; recorded with CBS Records; performing trio with Isaac Stern and Eugene Istomin; Ford Foundation Grant 1963; Hon. D.Mus. (Hartford) 1965. *Publications:* Edited major portion of cello literature for Int. Music Co. of New York. *Leisure interests:* cooking, golf, painting, antiques, reading. *Address:* 19 Overlook Road, Hastings-on-Hudson, N.Y. 10706. U.S.A.

ROSE, William Cumming, B.S., PH.D.; American professor emeritus of biochemistry; b. 4 April 1887, Greenville, S.C.; s. of Rev. John M. Rose and Mary Santos; m. Zula F. Hedrick 1913; ed. Davidson Coll., Yale Univ. and Univ. of Freiburg. Instructor in Physiological Chem., Univ. of Pa. 1911-13; Assoc. Prof. of Biochem., Coll. of Medicine of Univ. of Texas 1913-14, Prof. of Biochem. and Head of Dept. 1914-22; Prof. of Biochem. at Univ. of Ill. 1922-53, Research Prof. 1953-55, Research Prof. Emer. 1955-; mem. of Editorial Board Journal of Nutrition 1935-39, Journal of Biological Chemistry 1936-49; Pres. American Soc. of Biological Chemists 1937-39, American Inst. of Nutrition 1945-46; mem. of numerous scientific advisory bodies 1936-57, including Scientific Advisory Cttee. of Nutrition Foundation Inc. 1943-57; discovered, isolated, identified and established the spatial configuration of the dietary essential amino acid, Threonine; Fellow A.A.A.S.; mem. Nat. Acad. of Sciences, American Chemical Soc.; Hon. mem. Harvey Soc. of New York; Hon. Sc.D. (Davidson Coll., Yale Univ. and Univs. of

Chicago and Ill.); Osborn Mendel Award of American Inst. of Nutrition 1949, American Chemical Society's Willard Gibbs Medal 1952 and Charles F. Spencer Award 1957, Twentieth Anniversary Award of Nutrition Foundation 1961, Nat. Medal of Science awarded by the Pres. of U.S.A. 1966. *Publications:* Numerous scientific articles on the metabolism of creatinine, creatinine purines, and amino acids. *Leisure interests:* photography, amateur ornithology. *Address:* Apartment 204, The Oaks, 405 West University Avenue, Champaign, Ill. 61820, U.S.A. *Telephone:* 217-352-7709.

ROSEMAN, Saul, M.S. PH.D.; American biochemist; b. 9 March 1921, Brooklyn, N.Y.; s. of Emil and Rose (née Markowitz) Roseman; m. Martha Ozrowitz 1941; one s. two d.; ed. City Coll. of New York and Univ. of Wisconsin. Instructor to Asst. Prof., Univ. of Chicago 1948-53; Asst. Prof. of Biological Chem., Univ. of Mich. 1953-65; Prof. of Biology, Johns Hopkins Univ. 1965-, Chair., Dept. of Biology 1969-73, Dir., McCollum-Pratt Inst. 1969-73; Ralph S. O'Connor Prof. of Biology; Consultant, Nat. Cystic Fibrosis Research Foundation. Nat, Science Foundation, American Cancer Soc., Hosp. for Sick Children, Toronto; mem. American Soc. of Biological Chemists, American Acad. of Arts and Sciences, American Chemical Soc., Nat. Acad. of Sciences., A.A.A.S., Biophysical Soc., American Assen. of Univ. Profs.; Scientific Counsellor to Nat. Cancer Inst.; Counsellor to American Soc. of Biological Chemists; mem. Editorial Board: Journal of Biological Chemistry 1962-75, Journal of Lipid Research 1967-, Journal of Membrane Biology 1969-, Biochimica et Biophysica Acta 1971-, Biochemistry 1977-; awarded Sesquicentennial Award (Univ. of Mich.) 1967, 15th Annual T. Duckett Jones Memorial Award, Helen Hay Whitney Foundation 1973, Rosensteihl Award (Brandeis Univ.) 1974. *Publications:* over 100 original articles in scientific journals. *Leisure interests:* sailing, music, reading, athletics. *Address:* Department of Biology and McCollum-Pratt Institute, The Johns Hopkins University, Md. 21218 (Office); 8206 Cranwood Court, Baltimore, Md. 21208. U.S.A. (Home). *Telephone:* 338-7333 (Office); 486-7439 (Home).

ROSEN, Charles, PH.D.; American pianist; b. 5 May 1927, New York City; s. of Irwin Rosen and Anita Gerber; ed. Juilliard School of Music, Princeton Univ.; studied piano with Moriz Rosenthal and Hedwig Kanner-Rosenthal 1938-45; recital debut, New York 1951; first complete recording of Debussy Etudes 1951; première of Double Concerto by Elliott Carter, New York 1961; has played recitals and [redacted] soloist with orchestras throughout America and Europe; has made over 25 recordings including Stravinsky: Movements with composer conducting 1962, Schumann: Davidsbündlertänze 1963, Bach: Art of Fugue, Two Ricercars, Goldberg Variations 1971, Beethoven: Last Six Sonatas 1972, Boulez: Piano Music, Vol. I; Prof. of Music, State Univ. of N.Y. 1972-; Nat. Book Award 1972; Edison Prize, Netherlands 1974; Guggenheim Fellowship 1974; Messenger Lectures, Cornell Univ. 1975, Block Lectures, Univ. of Calif., Berkeley 1977; Dr. Mus. h.c. (Trinity Coll., Dublin 1976, Leeds Univ. 1976). *Publications:* The Classical Style: Haydn, Mozart, Beethoven 1971, Schoenberg 1975, and several articles on music. *Address:* 101 West 78th Street, New York, N.Y. 10024, U.S.A.; 3 place Boulnois, Paris 17e, France.

ROSEN, Martin M., M.A.; American executive and economist; b. 7 Aug. 1919, Cincinnati, Ohio; s. of Samuel Rosen and Sarah Fradkin; m. Judith Jacobs 1949; two s. four d.; ed. Univs. of Cincinnati and Minnesota. Economist, U.S. Treasury Dept. 1941-42; served with U.S. Army 1942-46; Deputy Chief, Finance Div. U.S. Element, Allied Comm. for Austria 1945-46; mem. of Econ. Staff, Int. Bank 1946; on leave to be Consultant to W.A. Harriman. U.S. Special Rep. in Europe 1948; Acting Chief Economist 1948, Chief Economist 1950, Asst. to Dir. Econ. Staff 1951, Asst. Dir. Dept. of Operations, Europe, Africa and Australasia 1952, Asst. Dir. Dept. of Technical Operations 1955, Dir. Dept. of Operations, Far East, IBRD 1957-61; Dir. Dept. of Operations, Far East. Int. Development Assen. (IDA) 1960-61; Exec. Vice-Pres. Int. Finance Corpn. 1961-69; Chair. and Dir. First Washington Securities Corpn. 1969–;Pres. Model, Roland and Co. Inc. 1972-73, Co-Chair. 1973-74; Vice-Chair. Shields Model Roland Inc. 1974-77; Chair. First Washington Interamerican Finance Corpn.; Man. Dir. Sanati Corpn. N.V.; Dir. Atlantic Bank of New York, Logetronics Inc., Bates Manufacturing Co. Inc., Int. Developers Inc., Foreign Policy Assen.; mem. Int. Advisory Cttee., American Security Bank; decorated by Govts of Columbia, Japan, Mauritania and Senegal. *Address:* First Washington Securities Corpn., 1735 Eye Street, N.W., Washington, D.C. 20006 (Office) 2115 Paul Spring Road, Alexandria, Va. 22307, U.S.A. (Home). *Telephone:* 296-2394 (Office); 768-7751 (Home).

ROSEN, Milton William, B.S.; American engineer and physicist; b. 25 July 1915, Philadelphia, Pa.; s. of Abraham and Regina (Weiss) Rosen; m. Josephine Haar 1948; three d.; ed. Univ. of Pennsylvania, Univ. of Pittsburgh, and California Inst. of Technology. Engineer Westinghouse Electric and Mfg. Co. 1937-38; Engineer-physicist Naval Research Lab., Washington 1940-58, Scientific Officer Viking Rocket 1947-55, Head Rocket Devt. Branch 1953-55, Technical Dir. Project Vanguard (earth satellite) 1955-58; Engineer NASA 1958-74; Chief Rocket Vehicle Devt. Programs 1958-59, Asst. Dir. Launch Vehicle Programs 1960-61, Dir. Launch Vehicles and Propulsion 1961-63; Senior Scientist, Office of DOD and Interagency Affairs, NASA 1963-72; Deputy Assoc. Admin. for Space Science (Eng.) 1972-74; Exec. Sec. Space Science Board 1974-78, Exec. Sec. Cttee. on Impacts of Stratospheric Change 1978-, Nat. Acad. of Sciences; Chair. Greater Washington Assen. of Unitarian Churches 1966-68. *Publications:* The Viking Rocket Story 1955. *Leisure interests:* music, tennis, art collecting, rug making. *Address:* National Academy of Sciences, Washington, D.C. 20418 (Office); 5610 Alta Vista Road, Bethesda, Maryland 20034, U.S.A. (Home). *Telephone:* 202-389-6746 (Office); 301-530-1497 (Home).

ROSEN, Shlomo; Israeli politician; b. 21 June 1905; active in Histadrut, missions abroad; mem. Exec. Cttee., Jewish Agency; mem. Exec. Comm., Mapam (United Workers' Party); mem. Knesset (Parl.), Deputy Speaker 1965-; Sec. Kibbutz Movement; Minister for Immigration and Absorption 1974-77. *Address:* c/o The Knesset, Jerusalem, Israel.

ROSENBLITH, Walter Alter; American scientist and university professor; b. 21 Sept. 1913, Vienna, Austria; s. of David A. and Gabriele (Roth) Rosenblith; m. Judy O. Francis 1941; one s. one d.; ed. Berlin, Lausanne, Paris, Bordeaux Univs. Research, Paris 1938-39, N.Y. Univ. 1939-40, Univ. Calif. (Los Angeles) Grad. Scholar and Asst. in Physics 1940-43; Asst. Prof., Assoc. Prof., Acting Head, Dept. of Physics, South Dakota School of Mines and Technology 1943-47; Research Fellow, Harvard Univ., Psycho-Acoustic Laboratory 1947-51; Assoc. Prof., Communications Biophysics, M.I.T. 1951-57, Prof. 1957-, Inst. Prof. 1975-; Research Assoc. in Otology, Harvard Medical School and Massachusetts Eye and Ear Infirmary 1957-; Chair. M.I.T. Faculty 1967-69; Assoc. Provost M.I.T. 1969-71, Provost 1971-; Fellow, American Acad. of Arts and Sciences, Acoustical Soc. of America, World Acad. of Art and Science, New York Acad. of Sciences, Inst. of Electrical and Electronic Engineers; mem. Nat. Acad. of Eng., Nat. Acad. of Sciences, Inst. of Medicine (also Council mem. 1970-76), Life Science Panel, Pres.'s Science Advisory Cttee. 1961-66; Cen. Council, Exec. cttee. and Hon. Treas. Inst. Brain Research Org. (UNESCO) 1960-68, Council Int. Union for Pure and Applied Biophysics 1964-69; Inaugural Lecturer, Tata Inst. for Fundamental Research 1962; Weizmann Memorial Lectures 1962; Consultant, WHO 1964-65; mem. Nat. Acad. of Sciences Nat. Research Council Brain Science Cttee. 1965-68, Pres.'s Cttee. on Urban Housing 1967-68; Dir. Kaiser Industries 1968-; Scientific Adviser, Callier Center for Communication Disorders 1968-, mem. Foundation 1975-; mem. Board Dirs. and Govs., American Cttee., Weizmann Inst. of Science 1968-, Advisory Cttee. to Dir. Nat. Inst. of Health 1970-74, Nat. Research Council Gov. Board 1974-76; Chair. Nat. Research Council Cttee. of R and D Needs of Physically Handicapped 1975-76. *Publications:* Noise and Man (with K.N. Stevens) 1953, Processing Neuroelectric Data (Editor) 1959, Sensory Communication (Editor) 1961, and contributor of numerous articles and chapters to professional publications. *Address:* Massachusetts Institute of Technology, Room 3-240, Cambridge. Mass, 02139; 164 Mason Terrace, Brookline, Mass. 02146, U.S.A. (Home). *Telephone:* 617-734-1110 (Home).

ROSENNE, Shabtai, LL.B.. PH.D.; Israeli lawyer and diplomatist; b. 24 Nov. 1917; ed. London Univ. and Hebrew Univ. of Jerusalem. Advocate (Israel), Political Dept., Jewish Agency for Palestine 1946-48; Legal Adviser, Ministry of Foreign Affairs 1948-66; Deputy Perm. Rep. to UN 1967-71; Perm. Rep. to UN, Geneva 1971-78; Ministry of Foreign Affairs 1974-; mem. Israeli del. to UN Gen. Assemblies 1948-78, Vice-Chair. Legal Cttee. Gen. Assembly 1960; mem. Israeli del. to Armistice Negotiations with Egypt, Jordan, Lebanon and Syria 1949; mem. Israel del. to UN Conf. on Law of the Sea 1958, 1960, 1973-79; Chair. Israel del. to un Conf. on Law of Treaties 1968, 1969, mem. other UN confs.; Govt. Rep. before Int. Court of Justice in several cases; mem. Int. Law Comm. 1962-71, UN Comm. on Human Rights 1968-70; Visiting Prof., Bar Ilan Univ. 1976-; [redacted] Inst. of Int. Law 1963-, Rapporteur, Termination and Modification of Treaties 1965; Hon. mem. American Soc. of Int. Law 1976; Israel Prize 1960, Certificate of Merit, American Soc. of Int. Law 1968. *Publications:* International Court of Justice 1957, The Time Factor in Jurisdiction of the International Court of Justice 1960, The Law and Practice of the International Court (2

vols.) 1965, The Law of Treaties: Guide to the Vienna Convention 1970, The World Court: What It Is And How It Works 1973; and numerous articles, mainly on law. *Address:* Ministry of Foreign Affairs, Jerusalem, Israel.

ROSENTHAL, Abraham Michael; American newspaperman; b. 2 May 1922, Sault St. Marie, Ont., Canada; m. Ann Marie Burke 1949; three s.; New York Times 1944-, UN Bureau 1946-54, New Delhi 1954-58, Warsaw 1958-59, Geneva 1959-61, Tokyo 1961-63, Metropolitan Editor 1963-66, Asst. Man. Editor 1966-68, Assoc. Man. Editor 1968-69, Man. Editor 1969-77, Exec. Editor 1977-; Pulitzer Prize 1960. *Publications:* 38 Witnesses, One More Victim (co-author). *Address:* New York Times, 229 West 43rd Street, New York, N.Y. 10036, U.S.A. *Telephone:* 556-1234.

ROSENTHAL, Philip, M.A.; German ceramics and glass executive and politician; b. 23 Oct. 1916, Berlin; s. of Dr. Philipp Rosenthal and Maria (née Frank); m. Lavinia McLeod Day; two s. three d.; ed. Wittelsbacher Gymnasium, Munich, St. Laurence Coll., Ramsgate, and Exeter Coll., Oxford. Advertising Man. Rosenthal AG 1950-58, Chair. Man. Board Rosenthal AG, Selb 1958-70; Chair. Advisory Board Rosenthal Isolatoren GmbH, Selb until 1970; SPD mem. of Parl. 1969-; Parl. Sec of State at Ministry of Econs. and Finance 1970-71; Chair. SPD-comm. on workers' capital sharing; Supervisory Board, Hanover Fair, VIAG; Pres. German Design Council, Darmstadt and Bauhaus-Archiv. *Publications:* on design, co-determination and capital sharing. *Leisure interests:* mountaineering, walking, rowing. *Address:* 8672 Erkersreuth, Schloss Erkersreuth, Federal Republic of Germany. *Telephone:* Selb 721.

ROSENZWEIG-DIAZ, Roberto de; Mexican diplomatist; b. 30 June 1924, The Hague, Netherlands; s. of Alfonso de Rosenzweig-Díaz and Elisa Azmitia de Rosenzweig-Díaz; m. Margarita Olloqui de Rosenzweig-Díaz 1951; one d.; ed. Ecole des Roches, France, High School in Panama Canal Zone, Colegio Franco-Mexicano, Mexico, Exeter Coll., Oxford, England. Foreign service, serving 1946-47 as Third Sec., London, Second Sec., Paris, First Sec., Rio de Janeiro, Minister Counsellor, Paris; Amb. to El Salvador, later to Egypt 1968-74; Adviser and Alt. del. to UN Gen. Assembly 1954-60; served Drugs Comm. of ECOSOC, Fourth Cttee. of Gen. Assembly 1970, 1973, 1975; Head of del. to Gen. Assembly 1976; Perm. Rep. to UN and Amb. to Bahamas 1976-78; Knight Commdr. Orden del Cruzeiro do Sul (Brazil); Ordre national du Mérite (France); José Matías Delgado Nat. Order; Gran Cruz de Plata and other decorations. *Address:* Matías Romero 121, México, D.F., Mexico (Home). *Telephone:* 575-1628 (Home).

ROSHCHIN, Aleksey Aleksandrovich; Soviet diplomatist; b. 2 Jan, 1905. Moscow; ed. Leningrad Inst. of National Economy; mem. CPSU 1928-; Diplomatic Service 1936-; Asst. Head, later Head, Third Western Dept., U.S.S.R. Foreign Ministry 1938-39; Counsellor to Chief Soviet Rep. on European Consultative Comm., London 1944-46; Deputy Head, later Head, U.S.S.R. Foreign Ministry UN Dept. 1946-52; Senior Counsellor Soviet Mission to UN 1952-53; Deputy Head U.S.S.R. Foreign Ministry UN Dept. 1953-54, Deputy Head, Int. Orgs. Dept. 1954-56; Counsellor-Minister, London 1956-59; Counsellor, Office of U.S.S.R. Foreign Minister 1959-64; Head of Second European Dept., U.S.S.R. Foreign Ministry 1964-66; Soviet Rep. on Eighteen-Nations Disarmament Cttee., Geneva 1966-; Orders and medals of U.S.S.R. *Address:* Eighteen-Nations Disarmament Committee, Geneva, Switzerland.

ROSHOLT, Aanon Michael; South African chartered accountant and business executive; b. 1920, Johannesburg; m. Beatrice Ash 1948; three s.; commissioned as Lieut., Natal Field Artillery, World War II, prisoner-of-war 1942-45; joined firm of C.A.'s Goldby, Panchaud and Webber, and later became Senior Partner; non-exec. mem. of the Board, Thos. Barlow and Sons Ltd. 1961-63, Dir. 1963, Joint Deputy Chair. 1963-68, Man. Dir. 1968-72; Vice-Chair. and Chief Exec., Barlow Rand Ltd. Nov. 1972-; Dir. of various cos. in the Barlow Rand Group; Dir. The Standard Bank of S.A., S.A. Breweries Ltd. and several other cos.; Chair. Ash Brothers; Gov. Michaelhouse School; Chair. Finance Cttee., African Children's Feeding Scheme. *Leisure interests:* squash, golf, deep-sea fishing, photography. *Address:* Barlow Rand Ltd., P.O. Box 782248 Sandton 2146, South Africa.

ROSICKÝ, Bohumir, DR.RER.NAT., D.SC.; Czechoslovak professor of parasitology; b. 18 April 1922, Brno; ed. Charles Univ., Prague; mem. of staff, Rovnost (Brno daily paper) 1945-46; Chemical Research Worker, Lab. Head in chemical industry 1947-50; specialist, Cen. Biological Inst., Prague 1950-53; Head, Dept. of Parasitology, Biological Inst., Czechoslovak Acad. of Sciences, Prague 1954-61; Dir. Inst. of Parasitology, Prague 1962-; Prof. Natural Sciences, Comenius Univ., Bratislava 1965-; corresp. mem. Czechoslovak Acad. of Sciences 1960-70, Academician 1970-, Vice-Pres. 1970-77; Deputy to Czech Nat. Council 1969-, mem. Presidium 1969-; WHO Consultant, India 1964-65; mem. Joint WHO/FAO UN Panel of Zoonoses; mem. Presidium Czech Nat. Council 1976–; Dir. Inst. of Parasitology 1963-71; Corresp. mem. Bulgarian Acad. of Sciences 1974; State Prize 1954; Klement Gottwald State Prize (with team) 1956, 1972, G. Mendel Gold Medal 1970, Silver Plaque of Czechoslovak Acad. of Sciences 1972, Order of Cyril and Method (Bulgaria) 1972, Krzyz Oficerski (Poland) 1973. *Publications:* Modern Insecticides (co-author) 1951, Czechoslovak Fauna-Aphaniptera 1957, Parasitologische Arbeitsmethoden (co-author) 1965; 130 papers on ecology, taxonomy, entomology, medical zoology and parasitology. *Address:* Institute of Parasitology of Czechoslovak Academy of Sciences, Flemingovo nám. 2, 166 32 Prague 6, Czechoslovakia.

ROSINI, Giuseppe; Italian shipping executive; b. 1901. Engineer, later Deputy Man. Soc. Grandi Fucine Italiane Gio'Fossati & Co. 1927; later Man. Stabilimento Fossati, and Fonderie ghisa e Metalli, of Ansaldo Co.; Consultant Cantieri Riuniti dell' Adriático, Cantieri del Quarnaro, Motomeccanica, Stabilimento di S. Eustacchio 1945-46; Gen. Man. Soc. Industriale S. Giorgio-Genoa 1948; Man. Dir. and Gen. Man. Ansaldo Co. 1949-59; Pres. FINMARE 1959-; numerous decorations. *Address:* c/o FINMARE, Via Barberini n. 22, Rome, Italy.

ROSS, Alan Strode Campbell, M.A.; British philologist; b. 1 Feb. 1907, Brecon; s. of Archibald Campbell Carne Ross and Millicent Strode Cobham; m. Elizabeth Stefanyja Olszewska 1932 (deceased 1973); one s.; ed. Malvern Coll., and Balliol Coll., Oxford; won Henry Skynner Scholarship in Astronomy to Balliol Coll. Oxford 1924; Asst. Lecturer in English Language Leeds Univ. 1929-36, Lecturer 1936-39; seconded to Foreign Office 1940-45; Lecturer in English Language Birmingham Univ. 1946, Reader 1947, Prof. 1948-51, Prof. of Linguistics 1951-74; Corresp. mem. Société Finno-ougrienne. *Publications:* The Dream of the Rood (with B. Dickins) 1934, Studies in the Accidence of the Lindisfarne Gospels 1937, The 'Numeral-signs' of the Mohenjo-daro Script 1938, The 'Terfinnas' and the 'Beormas' of Ohthere 1940, Essentials of Anglo-Saxon Grammar 1948, Tables for Old English Sound-changes 1951, Ginger 1952, Noblesse Oblige (with Nancy Mitford and others) 1956, Lindisfarne Gospels, Urs Graf Edition (with several others) 1957, 1961, Etymology 1958, Essentials of German Grammar 1963, Essentials of English 1964, The Pitcairnese Language (with A.W. Moverley) 1964, I.I. Revzin's Models of Language (trans. with N.F.C. Owen) 1966, Arts v. Science (Editor) 1967, What are U? (with several others) 1969, Durham Ritual (with others) 1970, How to Pronounce it 1970, Don't say It 1973. *Leisure interests:* land rovering, croquet. *Address:* 37 Phoenix Way, Southwick, Sussex, BN4 4HP, England. *Telephone:* Brighton 595027.

ROSS, Sir Archibald David Manisty, K.C.M.G., M.A.; British businessman and fmr. diplomatist; b. 12 Oct. 1911, Budleigh Salterton, Devon; s. of John Archibald Ross, I.C.S., and Dorothea Manisty; m. Mary Melville Macfadyen 1939; one s. one d.; ed. Winchester, and New Coll., Oxford. Diplomatic Service 1936-71; Minister, Rome 1953-56; Asst. Under-Sec. of State 1956-60; Amb. to Portugal 1961-66, to Sweden 1966-71; Chair., Alfa-Laval Co. Ltd., and UK Cos. of the Saab-Scania group. *Leisure interests:* tennis, music. *Address:* 17 Ennismore Gardens, London, S.W.7, England.

ROSS, Lewis Nathan, C.M.G., F.C.A.; New Zealand company director and banker; b. 7 March 1911, Auckland; s. of Robert and Raie Ross; m. Ella M. Burns; one d. two s.; ed. Auckland Grammar School, Univ. of Auckland; commenced practice as a chartered accountant in Auckland 1932; Pres. Assoc. Chambers of Commerce of New Zealand 1956-57, New Zealand Soc. of Accountants 1972-73; Chair. Govt. Cttee. to Review Taxation in New Zealand 1966-67; mem. Nat. Devt. Council 1969-74; now Chair. Bank of New Zealand, New Zealand Insurance Co. Ltd., Rex Consolidated Ltd., New Zealand Sugar Co. Ltd.; Dir. New Zealand Forest Products Ltd., L.D. Nathan & Co. Ltd. and several other cos. *Publications:* Taxation: principles, purpose and incidence 1972; one research lecture, several booklets and articles on finance and taxation. *Address:* Achilles House, Customs Street, P.O. Box 881, Auckland (Office); 11 Rewiti Street, Orakei, Auckland, New Zealand (Home). *Telephone:* 798-665 (Office); 547-449 (Home).

ROSS, Rt. Hon. William, P.C., M.B.E.; (cr. Life Peer June 1979); British politician; b. 7 April 1911; ed. Ayr Acad., and Glasgow Univ.; former schoolmaster; Army service, World War II; M.P. for Kilmarnock 1946-79; Sec. of State for Scotland 1964-70, 1974-76; Labour. *Address:* 10 Chapelpark Road, Ayr, Scotland (Home).

ROSSELAND, Svein; Norwegian astronomer; b. 31 March 1894, Kvam, Hardanger; s. of Isak and Ragna Rosseland; m. Ragna Michelsen 1924; one s.; ed. Oslo Univ. Prof. of Astronomy, Oslo Univ. 1928-64, Dir. and Founder, Univ. Inst. of Theoretical Astrophysics 1934; Visiting Prof. Harvard Univ. 1929-30; Prof. of Astronomy Princeton Univ. 1941-46; Exec. Cttee. mem. Royal Norwegian Council of Scientific and Industrial Research 1946-53, Vice-Pres. 1947-51; Chair. Research Cttee., Central Inst. of Industrial Research 1950-56, Vice-Chair. of Board 1956-; mem. Norwegian Acad. of Sciences and Letters, Pres. 1948-60, and Vice-Pres. 1949-59, Dean Faculty of Science 1951-53; founded Oslo Solar Observatory 1954; founded Astrophysica Norvegica 1934; Dir. and Founder Oslo Space Track Facility 1960; contrib. to Handbuch der Astrophysik; mem. NATO Science Cttee. 1958-65; mem. scientific socs. in Norway, Sweden, Denmark, Belgium, England, U.S.A. and India; Commdr. with Star Royal Order of St. Olaf; Hon. D.Sc. (Copenhagen and Stockholm). *Publications:* Astrophysik auf atomtheoretischer Grundlage 1931, Theoretical Astrophysics 1936, The Pulsation Theory of Variable Stars 1949. *Leisure interest:* photography. *Address:* Institute of Theoretical Astrophysics, Box 1029, Blindern, Oslo 3 (Office); Ovenbakken 18C, 1345 Østerås, Norway (Home). *Telephone:* Oslo 244760 (Home).

ROSSI, H.E. Cardinal Agnelo; Brazilian ecclesiastic; b. 4 May 1913; ordained priest 1937; Bishop of Barra do Pirai 1956; Archbishop of São Paulo 1964; cr. Cardinal 1965; Prefect, Sacred Congregation for the Evangelization of the People 1970-; Grand Chancellor Pontificia Universita Urbaniana. *Address:* Collegio Urbano di Propaganda Fide, Villa Betania, Via Urbano VIII, 00165 Rome, Italy. *Telephone:* 560331.

ROSSI, Bruno B.; American professor; b. 13 April 1905, Venice, Italy; s. of Rino Rossi and Lina Minerbi Rossi; m. Nora Lombroso 1938; one s. two d.; ed. Univs. of Padua and Bologna. Asst. Univ. of Florence 1928-32; Prof. Univ. of Padua 1932-38; Assoc. Prof. Cornell Univ., Ithaca, N.Y. 1940-43; Staff mem. Los Alamos Lab., N.M. 1943-46; Prof. of Physics, M.I.T. 1946-66, Inst. Prof. 1966, Inst. Prof. Emer. 1970-; Hon. Prof. Univ. Mayor de San Andres, La Paz, Bolivia; Hon. Fellow Tata Inst. Fundamental Research, Bombay 1971; mem. Physics Cttee. of NASA; Dr. h.c. (Palermo, Durham 1974, Univ. of Chicago 1977); Research Corpn. Scientific Award; Order of Merit of the Repub. of Italy; Italian Physical Soc. Gold Medal 1970; Int. Feltrinelli Award, Accademia dei Lincei, Cresson Medal, Franklin Inst., Philadephia 1974, Rumford Prize, American Acad. of Arts and Sciences 1976. *Publications:* Ionization Chambers and Counters (Co-Author) 1949, High Energy Particles 1952, Optics 1957, Cosmic Rays 1964, Introduction to the Physics of Space (Co-Author) 1970; about 150 papers. *Address:* Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Mass., U.S.A. *Telephone:* 253-4283.

ROSSIDES, Zenon George; Cypriot diplomatist; b. 8 Feb. 1895; ed. Limassol Coll. and Middle Temple, London; called to bar 1923; law practice in Cyprus and England 1925-54; mem. nat. del. of Cyprus to London 1929; rep. Nat. Council of Cyprus in London 1930-31; arrested by Colonial Admin. during nat. uprising 1931, confined to Kythrea village 1931-33; mem. Ethnarchy Council of Cyprus 1946-48, 1950-59; mem. Nat. del. to London 1946; observer for Cyprus to UN Gen. Ass. 1951-52, 1954-58; attended Afro-Asian Conf., Bandung 1955; Chief Rep. of Greek Cypriots at London Conf. for Establishment of Repub. of Cyprus 1959-60; Amb., Perm. Rep. of Cyprus to UN, Chair. of del. to Gen. Ass. 1960-; Amb. to U.S.A. 1960-73; attended Founding Conf. of Non-Aligned Countries, Belgrade 1961, Second Conf., Cairo 1964; Vice-Pres. UN Gen. Ass. 1961, 1963, 1966, 1971; Chair. UN Special Cttee. on Territories under Portuguese Admin. 1962, Legal Cttee. of Gen. Ass. 1971, UN Cttee. on Relations with the Host Country 1971-, UN Special Cttee. on Definition of Agoression 1972; mem. UN Admin. Tribunal 1966–,UN Cttee. on Elimination of Racial Discrimination 1969-71, Int. Law Comm. 1971-, Preparatory Cttee. on Conf. on Human Environment. *Publications:* Self-determination and Other Aspects of the Question of Cyprus 1930, The Island of Cyprus and Union with Greece 1951, The Problem of Cyprus, Its Political and Legal Aspects 1958; various articles on political and legal subjects, and poetry. *Address:* Permanent Mission of Cyprus to the United Nations, 820 Second Avenue, 12th Floor, New York, N.y. 10017, u.S.a.

ROSSINI, Frederick Dominic, M.S., PH.D., D.SC., D.ENG.SC., LITT.D.; American chemist; b. 18 July 1899, Monongahela, Pa.; m. Anne K. Landgraff 1932; one s.; ed. Carnegie Inst. of Technology, and Univ. of Calif. Asst. in Physics, Carnegie Inst. of Technology 1923-24, Asst. in Mathematics 1924-26; Teaching Fellow in Chemistry, Univ. of Calif. 1926-28; Physical Chemist, Nat. Bureau of Standards 1928-50, Chief of Section on Thermochemistry and Hydrocarbons 1936-50, Lecturer in Chemical Thermodynamics, Graduate School Nat. Bureau of Standards 1934-50; Dir. American Petroleum Inst. Research Projects 1935-60; Silliman Prof., Head Dept. of Chemistry, Dir. Chemical and Petroleum Research Lab., Carnegie Inst. of Technology 1950-60; Dean, Coll. of Science and Assoc. Dean Graduate School. Univ. of Notre Dame 1960-67, vice-Pres. for Research 1967-71; Prof. of Chemistry, Rice Univ. 1971-78; Board of Editors Journal of American Chemical Society 1946-56; Comm. on Thermochemistry, Int. Union of Pure and Applied Chemistry 1934-61; Pres. Comm. on Chemical Thermodynamics 1952-61; Consultant Nat. Science Foundation 1952-62; Chair. Div. of Petroleum Chemistry, American Chemical Soc. 1954; Marburg Lecturer American Soc. for Testing materials 1953; Chair. Div. Chemistry and Chemical Tech., Nat. Research Council 1955-58; Pres. Albertus Magnus Guild 1961-65, Asscn. Midwest Univ. 1967-68, Cttee. on Data for Science and Technology of the Int. Council of Scientific Unions 1966-70, World Petroleum Congresses 1967-75; Vice-Pres. Argonne Univ. Asscn. 1968-70; mem. Nat. Acad. of Science; Dr. h.c. (Univ. of Lund, Sweden) 1974; awards include Priestley Medal (American Chem. Soc. 1971), Redwood Medal (Inst. of Petroleum, U.K.) 1972, Carl Engler Medal (Deutsche Gesellschaft für Mineralölwissenschaft und Kohlecheme, Fed. Repub. of Germany) 1976, Nat. Medal of Science (U.S.A.) 1977. *Publications:* 11 books and 252 papers. *Address:* 2131 N.E. 58 Court, Fort Lauderdale, Fla. 33308, U.S.A. (Home).

ROSTA, Endre, D.IUR.; Hungarian jurist; b. 18 July 1909, Berettyószéplak; m. Simone Pasche 1946; three d.; ed. Budapest and Graz. Official, Cen. Cttee. Hungarian CP 1945-48, later Hungarian Working People's Party; Head of Press Dept. of Prime Minister's Office; Judge, later Vice-Pres. High Court for Econ. Affairs; science-policy and legal adviser Hungarian Acad. of Sciences Research Inst. for Computer Technology and Automation and Centre of Computer Technology and Org., Hungarian Telecommunications Asscn. Exec. Chair. Inst. for Cultural Relations 1961-69, Chair. 1970-77; Labour Order of Merit golden degree. *Leisure interests:* logic, mathematics. *Address:* H-1124 Budapest, Stromfeld Aurélut 34, Hungary. *Telephone:* 852-496.

ROSTOW, Eugene Victor, LL.D. (brother of Walt Whitman Rostow, *q.v.*); American lawyer, economist and government official; b. 25 Aug. 1913, Brooklyn, N.Y.; s. of Victor A. and Lilian Rostow; m. Edna B. Greenberg 1933; two s. one d.; ed. Yale Coll., King's Coll., Cambridge, and Yale Law School; admitted to N.Y. Bar 1938, practised in New York City 1937-38; mem. Faculty, Law School, Yale 1938-, Prof. of Law 1944-, Sterling Prof. of Law and Public Affairs 1964-, Dean 1955-65 (on leave 1966-69); Visiting Prof., Univ. of Chicago 1941; Pitt Prof. of American History and Insts., Professorial Fellow, King's Coll., Cambridge 1959-60; Guggenheim Fellow 1959-60; Adviser to Dept. of State 1942-44, 1961-66; Asst. Exec. Sec. Econ. Comm. for Europe, UN 1949-50; Under-Sec. of State for Political Affairs, Dept. of State 1966-69; Eastman Visiting Prof. and Fellow of Balliol Coll., Oxford 1970-71; Pres. Atlantic Treaty Asscn. 1973-76; Fellow, American Acad. of Arts and Sciences; Hon. LL.D. (Cambridge); Kt. Commdr. Order of the Crown, Belgium, Chevalier, Légion d'honneur. *Publications:* Planning for Freedom 1959, The Sovereign Prerogative 1962, Law, Power and the Pursuit of Peace 1968, Peace in the Balance 1972, Editor Is Law Dead? 1971, The Ideal in Law 1978. *Address:* 208 St. Ronan Street, New Haven, Conn. 06511; and (summer) Peru, Vermont 05152, U.S.A.

ROSTOW, Walt Whitman, PH.D.; American economist; b. 7 Oct. 1916, New York, N.Y.; s. of Victor A. and Lilian H. Rostow; brother of Eugene Rostow (*q.v.*); m. Elspeth Vaughan Davies 1947; one s. one d.; ed. Yale and Oxford Univs. Instructor in Econs. Columbia Univ. 1940-41; served as Major, 1942-45; Asst. Chief German-Austrian Econ. Div. State Dept. 1945-46; Harmsworth Prof. of American History, Oxford Univ. 1946-47; Asst. to Exec. Sec. UN Econ. Comm. for Europe 1947-49; Pitt Prof. of American History Cambridge Univ. 1949-50; Prof. of Econ. History M.I.T. and Staff mem. M.I.T. Center for Int. Studies 1951-60; Deputy Special Asst. to the Pres. for Nat. Security Affairs Jan.-Nov. 1961; Counsellor and Chair. Policy Planning Council, Dept. of State 1961-66; Special Asst., The White House 1966-69; currently Prof. of Econs. and History, Univ. of Texas; Legion of Merit, Hon. O.B.E. (U.K.), Presidential Medal of Freedom (with distinction) 1969. *Publications:* The American Diplomatic Revolution 1947, Essays on the British Economy of the XIX century 1948, The Process of economic Growth 1952, The Growth and Fluctuation of the British Economy 1790-1850 (with A.D. Gayer and A.J. Schwartz) 1953, The Dynamics of Soviet Society (with A. Levin and others) 1953, The Prospects for Communist China (with others) 1954, An American Policy in Asia (with R.W. Hatch) 1955, A Proposal: Key to an Effective Foreign Policy (with Max F. Millikan) 1957, The United States in the World Arena

1960, The Stages of Economic Growth 1960; View from the Seventh Floor 1964, A design for Asian Development 1965, East-West Relations: Is Detente Possible? (with William E. Griffith) 1969, Politics and the Stages of Growth 1971, The Diffusion of Power 1972, How it All Began 1975, The World Economy: History and Prospect 1978, Getting from Here to There 1978. *Leisure interest:* tennis. *Address:* 1 Wildwind Point, Austin, Tex., U.S.A.

ROSTROPOVICH, Mstislav Leopoldovich; Soviet-born 'cellist, conductor and accompanist; b. 27 March 1927, Baku, Azerbaizhan S.S.R.; m. Galina Vishnevskaya (*q.v.*) 1955; two d.; ed. Moscow Conservatoire. 'Cello début (U.S.S.R.) 1940; numerous concert tours in U.S.S.R. and abroad ■ soloist and 'cellist in trio with Emil Gilels (*q.v.*) and Leonid Kogan (*q.v.*) since 1947; début in U.S.A. as 'cellist 1955, ■ conductor 1975; Music Dir. Nat. Symphony Orchestra (Washington, D.C.) 1977-; Co-Dir. Aldeburgh Festival (U.K.) 1977–; Prof. Moscow and Leningrad Conservatoires 1960-78; among composers who have written works for him are Prokofiev, Shostakovich, Miaskovsky, Khachaturian, Kabalevsky, Britten, Piston and Bernstein; Hon. mem. Acad. of St. Cecilia (Rome), Acad. of Arts and Sciences (U.S.A.), Hon. F.R.A.M.; Hon. D.Mus. from 11 univs.; First Prize at All-Union Competition of Musicans 1945, Int. 'Cellist Competition 1947, 1950, 'Cellist Competition 1949, U.S.S.R. State Prize 1951, People's Artist of the U.S.S.R., Lenin Prize 1964, Gold Medal, Royal Philharmonic Soc. (U.K.), Siemens Prize (Fed. Repub. of Germany), Commdr. Ordre des Arts et des Lettres (France). *Address:* c/o National Symphony Orchestra, John J. Kennedy Centre for the Performing Arts, Washington, D.C. 20566, U.S.A. *Telephone:* (202) 785-8100.

ROTA, Francesco; Italian business executive; b. 28 May 1909, Turin; ed. Istituto Tecnico, Turin and Univ. of Turin; joined Istituto Bancario S. Paolo di Torino 1928, Sec.-Gen. 1945, Dir.-Gen. 1957-68, Hon. Dir.-Gen. 1968-; Deputy Dir.-Gen. Fiat S.p.A. 1968-69, Co-Dir.-Gen. 1969-78; Dir. Mediocredito Centrale; mem. Board, Banque Française et Italienne pour l'Amérique du Sud, IFI, Locat FISPAO, and Italo-Soviet Chamber of Commerce; Dir. citroën S.A. 1971-; Cavaliere del Lavoro. *Address:* Corso Rosselli 9, Turin, Italy (Home).

ROTA, Giorgio, M.POL.SC.; Italian civil servant and international banking official; b. 29 Nov. 1913, Gorizia; s. of Oscar and Irma Collioud; m. Elena Cambi 1947; two s.; ed. Ca' Foscari, Venice Univ. Civil Servant 1940; Welfare Officer, then Dir. Refugee Camps in Southern Italy, UN Relief and Rehabilitation Admin. (UNRRA) 1945-46; in charge of Import-Export Problems, Ministry of Foreign Trade 1947-50; Gen. Treasury Admin., Overseas Dept. of Ministry of the Treasury 1950-68, Alt. to Minister of the Treasury in the Group of Ten 1963-68; Exec. Dir. for Italy, Portugal and Spain of IBRD, IFC and IDA Nov. 1968-; Italian Rep. at confs. of IMF, IBRD, IFC, etc. since 1950. *Leisure interest:* photography. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C. 20433, U.S.A. *Telephone:* 477-2391.

ROTBERG, Eugene Harvey, LL.B.; American World Bank official; b. 19 Jan. 1930, Philadelphia, Pa.; s. of Irving Bernard Rotberg and Blanche Grace Rotberg; m. Dr. Iris Sybil Comens 1954; two d.; ed. Temple Univ. and Univ. of Pennsylvania.; mem. Pennsylvania and D.C. Bar; with U.S. Securities and Exchange Comm. 1957-68, Chief Counsel, Office of Policy Research, Sec. 1963-66; Assoc. Dir. Markets and Regulation, Sec. 1966-68; Vice-Pres. and Treas. IBRD and affiliates (IDA and IFC) Jan. 1969-; professorial Lecturer in Law, George Washington Univ. Law School 1965-; Distinguished Service Award, U.S. Govt. (Securities and Exchange Comm.) 1968; Alumni Award, Temple Univ. 1969; Distinguished Scholar Award, Hofstra Univ. *Leisure interests:* theatre, travel. *Address:* International Bank for Reconstruction and Development 1818 H Street, N.W., Washington, D.C. 20433 (Office); 10822 Childs Court, Silver Spring, Md. 20901, U.S.A. (Home). *Telephone:* 477-2213 (Office); 593-4134 (Home).

ROTBLAT, Joseph, C.B.E., M.A., D.SC., PH.D.; British (b. Polish) physicist; b. 4 Nov. 1908, Warsaw; ed. Univ. of Warsaw; Research Fellow, Radiological Lab. of Scientific Soc. of Warsaw 1933-39; Asst. Dir. of Atomic Physics, Inst. of Free Univ. of Poland 1937-39; Oliver Lodge Fellow, Univ. of Liverpool 1939-40; Lecturer, later Senior Lecturer, Dept. of Physics, Univ. of Liverpool 1940-49, Dir. of Research in Nuclear Physics, Univ. of Liverpool 1945-49; Prof. of Physics in Univ. of London, at St. Bartholomew's Hosp. Medical Coll. 1950-76; mem. Polish Acad. of Sciences, American Acad. of Arts and Sciences; Sec.-Gen. the Pugwash Confs.; Editor Physics in Medicine and Biology; Pres. Hosp. Physicists' Assn. British Inst. of Radiology; Pres. Int. Youth Science Fortnight. *Publications:* Atomic Energy, ■ Survey 1954, Atoms and the Universe 1956, 1973, Science and World Affairs 1962, Aspects of Medical Physics 1966, Pugwash 1967, Scientists in the Quest for Peace 1972, Nuclear Reactors: to Breed or Not to Breed? 1977. *Leisure interests:* travel, music. *Address:* 8 Asmara Road, London, N.W.2, England. *Telephone:* 01-435 1471.

ROTH, Klaus Friedrich, B.A., M.SC., PH.D., F.R.S.; British mathematician; b. 29 Oct. 1925, Breslau, Germany; s. of Dr. Franz Roth and Mathilde Roth (née Liebrecht); m. Dr. Melek Khairy 1955; ed. St. Paul's School, London, Peterhouse, Cambridge, and Univ. Coll., London; Asst. Master Gordonstoun School 1945-46; Postgraduate student Univ. Coll., London 1946-48; mem. Mathematics Dept. Univ. Coll., London 1948-66 (title of Prof. in Univ. of London conferred 1961); Prof. of Pure Mathematics (Theory of Numbers), Imperial Coll., London 1966-; Visiting Lecturer, M.I.T. 1956-57, Visiting Prof. 1965-66; Fellow of Royal Soc. 1960-; Foreign Hon. mem. American Acad. of Arts and Sciences 1966-; Fields Medal Int. Congress of Mathematicians 1958. *Publications:* papers in journals of learned societies. *Leisure interests:* chess, cinema. *Address:* Department of Mathematics, Imperial College of Science and Technology, 180 Queen's Gate, London, SW7 2BZ (Office); 24 Burnsall Street, London, SW3 3ST, England (Home). *Telephone:* 01-589 5111 (Office); 01-352 1363 (Home).

ROTH, Sir Martin, Kt., M.D., F.R.C.P., F.R.C. PSYCH.; British professor of psychiatry; b. 6 Nov. 1917, Budapest, Hungary; s. of Samuel Simon Roth and late Regina Roth; m. Constance Heller 1945; three d.; ed. St. Mary's Hospital Medical School, London and McGill Univs.; Dir. of Clinical Research, Graylingwell Hosp. 1950-55; Visiting Asst. Prof. McGill Univ. 1954; Prof. of Psychological Medicine, Univ. of Newcastle-upon-Tyne (fmrly. Durham Univ.) 1956-77; Prof. of Psychiatry, Univ. of Cambridge 1977-; Hon. Physician Royal Victoria Infirmary, Newcastle-upon-Tyne 1956-; mem. Medical Research Council 1964-68; mem. Clinical Research Board 1964-70, Chair. Grants Cttee. 1968-70; Co-Editor British Journal of Psychiatry 1968-; mem. Cen. Health Services Council, Standing Medical Advisory Cttee., Dept. of Health and Social Security 1968-75; Visiting Prof. Swedish univs. 1967; Mayne Guest Prof. Univ. of Queensland 1968; Pres. Section of Psychiatry, Royal Soc. of Medicine 1968-69; First Pres. Royal Coll. of Psychiatrists 1971-75; Hon. mem. Soc. Royale de Médicine Mentale de Belgique 1970, Canadian Psychiatric Assn. 1972; Corresp. mem. Deutsche Gesellschaft für Psychiatrie und Nervenheilkunde 1970; Adolf Meyer Lecturer, American Psychiatric Assn. 1971; Visiting Prof. Univ. of Iowa 1976, Univ. of Indianapolis 1976; Distinguished Fellow American Psychiatric Assn. 1972; Hon. Fellow Australian and New Zealand Coll. of Psychiatrists 1974, Royal Coll. of Psychiatrists 1975, Hon. Sc.D. (Dublin) 1977, Anna Monika Award 1977, Paul Hoch Award 1979. *Publications:* Clinical Psychiatry (with W. Mayer-Gross and Eliot Slater) 1954, Italian, Spanish, Portuguese and Chinese trans.; Editor: Psychiatry, Genetics and Epilepsy: A Tribute to Eliot Slater 1979. *Leisure interests:* English, French and Russian literature of the 19th and 20th Centuries, contemporary and classical music, visual arts, travel, swimming. *Address:* Department of Psychiatry, New Addenbrooke's Hospital, Hills Road, Cambridge CB2 2QQ, England. *Telephone:* (0223) 44014.

ROTH, Philip, M.A.; American writer; b. 19 March 1933, Newark, N.J.; s. of Bess Finkel Roth and Herman Roth; ed. Bucknell Univ. and Univ. of Chicago; in U.S. Army 1955-56; Lecturer in English, Univ. of Chicago 1956-58; Visiting Lecturer, Univ. of Iowa Writers' Workshop 1960-62; Writer-in-Residence, Princeton Univ. 1962-64, Univ. of Pa. 1965, 1966, 1970-76, 1978; Visiting Lecturer, State Univ. of N.Y., Stony Brook 1967, 1968; Houghton Mifflin Literary Fellow 1959; Guggenheim Fellowship Grant in Rome 1959-60, Rockefeller Grant 1965, Ford Foundation Grant in Rome 1966; mem. Nat. Inst. of Arts and Letters 1970-; Daroff Award of Jewish Book Council of America 1959, Award of Nat. Inst. of Arts and Letters 1959, Nat. Book Award for Fiction 1960. *Publications:* Goodbye Columbus (novella and stories) 1959; novels: Letting Go 1962, When She Was Good 1967, Portnoy's Complaint 1969, Our Gang 1971, The Breast 1972, The Great American Novel 1973, My Life ■ a Man 1974, Reading Myself and Others (essays) 1975, The Professor of Desire 1977. *Address:* c/o Farrar, Straus and Giroux, 19 Union Square, New York, N.Y., U.S.A.

ROTH, William V., Jr.; American politician; b. 22 July 1921, Great Falls, Mont.; s. of William V. and Clara Nelson Roth; m. Jane Richards 1965; one s. one d.; ed. Univ. of Oregon and Harvard Univ.; admitted to Del. Bar and U.S. Supreme Court; fmr. Congressman from Delaware; mem. Republican Nat. Cttee. 1961-64; Senator from Del. 1971-. *Address:* New Senate Office Building, Washington, D.C. 20510, U.S.A.

ROTHA, Paul, F.R.S.A.; British film producer, writer and journalist; b. 3 June 1907, London; ed. Highgate School and Slade School of

Art, London; Painter and designer; art critic, The Connoisseur 1927-28; produced documentary films for Empire Marketing Board, The Times, Shell-Mex, etc.; formed own cos. 1941 and 1944; awarded gold medals Venice Film Festival 1934; Brussels Film Festival 1935; British Film Acad. award 1948, UN award 1953, Top Award, Leipzig 1963; mem. Council British Film Acad. 1947-51, Fellow 1951, Chair. of Council 1951; Head of Television Documentary BBC 1953-55; Simon Senior Research Fellow, Univ. of Manchester 1967-68; Hon. mem. Critics' Circle, London 1969. *Productions include:* The World Is Rich, World of Plenty, Land of Promise, Total War in Britain, A City Speaks, Contact, To-day We Live, Cover to Cover, The Future's in the Air, The Face of Britain, New Worlds for Old, The Fourth Estate, World Without End (with Basil Wright); No Resting Place 1950, Cat and Mouse (features) 1957, Cradle of Genius 1959, The Life of Adolf Hitler 1960, 1961, De Overval (Silent Raid) (Dutch Feature) 1962. *Publications:* The Film Till Now 1930, 1949, 1960, 1963, 1964, 1967, Celluloid: The Film Today 1931, Documentary Film 1935, 1939, 1952, 1964, Movie Parade 1936, 1950, Portrait of a Flying Yorkshireman 1952, Television in the Making 1956, Rotha on the Film 1958, The Innocent Eye, biography of Robert J. Flaherty (with Basil Wright and A. Calder-Marshall) 1963, Documentary Diary, A History of the British Documentary Film 1973, Film Criticism: Richard Winnington 1975. *Address:* c/o John Farquharson Ltd., Bell House, Bell Yard, London, WC2A 2UU, England.

ROTHÉ, Jean-Pierre-Edmond, D. ES SC.; French university professor; b. 16 Nov. 1906, Nancy; s. of Edmond Rothé; m. Marguerite Méjan 1942; two s. two d.; Asst. Faculty of Sciences, Strasbourg Univ. 1928, Asst. Prof. 1937, Prof. 1945-76, Hon. Prof. 1976–;Dir. Inst. de Physique du Globe de Strasbourg 1946-76; Hon. Sec.-Gen. Int. Assen. of Seismology of Int. Union of Geodesy and Geophysics; fmr. Dir. Int. Bureau of Seismology; Chevalier, Légion d'honneur. *Publications:* Contribution à l'étude des anomalies de champ magnétique terrestre 1937, Séismes et volcans 1946, 1958, 1962, 1968, 1972, 1977, Prospection géophysique, Vol. I 1949, Vol. II 1951, La radioactivité des Vosges hercyniennes 1957, The Seismicity of the Earth (1953-1965) 1969, Earthquakes and Reservoir Loadings 1969, Séismes artificiels 1970, Séismicité de la France 1972. *Leisure interests:* tennis, skiing. *Address:* 160 rue d'Alco, 34100 Montpellier, France. *Telephone:* (67) 75-81-42.

ROTHENBERGER, Anneliese; German opera singer (soprano); b. 19 June 1926; ed. Real and Musikochschule, Mannheim; Debut, Coblenz Theatre 1947; with State Opera Hamburg, Munich, Vienna 1948-70; Guest singer at La Scala, Milan, Metropolitan Opera, New York, Salzburg Festival, etc. *Films:* Die Fledermaus 1955, Der Rosenkavalier. *Address:* 8268 Salenstein ▬ Untersee, Switzerland.

ROTHENSTEIN, Sir John Knewstub Maurice, Kt., C.B.E., M.A., PH.D., LL.D., F.M.A.; British writer and art director; b. 11 July 1901, London; s. of Sir William Rothenstein and Alice M. Knewstub; m. Elizabeth Kennard Smith 1929; one d.; ed. Bedales School, Worcester Coll., Oxford, and Univ. Coll., London; Asst. Prof. of Art History Univ. of Kentucky 1927-28, Univ. of Pittsburgh 1928-29; Dir. of City Art Galleries Leeds 1932-34, Sheffield 1933-38; Dir. and Keeper Tate Gallery 1938-64; mem. British Council 1938-64; mem. Art Panel, Arts Council Great Britain 1942-52, 1954-56; mem. Advisory Cttee. on decoration of Westminster Cathedral 1953-; mem. Council Friends of the Tate Gallery 1958-; Hon. Fellow, Worcester Coll., Oxford 1963-; Fellow, Univ. Coll. London 1976; Rector Univ. of St. Andrews 1964-67; Pres. Friends of Bradford Art Galleries and Museums 1972-; Editor The Masters 1965-67; Visiting Prof. of Art History, Fordham Univ., N.Y. 1967-68, Agnes Scott Coll., Georgia 1969-70; Distinguished Prof., Brooklyn Coll. of the City Univ., New York 1971 and 1972; Regents' Lecturer, Univ. of Calif. at Irvine 1973; Kt. Commdr., Order of Aztec Eagle (Mexico) 1953, Order of St. Gregory the Great 1976. *Publications:* The Portrait Drawings of William Rothenstein, 1889-1925 1926, Eric Gill 1927, The Artists of the 1890's 1928, Morning Sorrow (novel) 1930, Sixteen Letters from Oscar Wilde (editor) 1930, British Artists and the War 1931, Nineteenth Century Painting 1932, An Introduction to English Painting 1933, The Life and Death of Conder 1938, Augustus John 1944, Edward Burra 1945, Manet 1945, Foreign Pictures in the Tate Gallery 1949, Turner 1949, 1960, London's River, an Anthology (with Father Vincent Turner, S.J.) 1951, Modern English Painters, Vol. I Sickert to Smith 1952, Vol. II, Lewis to Moore 1956, Vol. III, Wood to Hockney 1974, The Moderns and their World (introduction) 1957, The Tate Gallery 1958, 1962, British Art since 1900: ▬ Anthology 1962, Matthew Smith 1962, Paul Nash 1962, Augustus John 1963, Sickert 1963, Turner (with Martin Butlin) 1964, Francis Bacon (with Ronald Alley) 1964, Summer's Lease (autobiography I) 1965, Brave Day, Hideous Night (II) 1966, BBC TV: Collection and Recollection 1968, Churchill the Painter (COI) 1968, Time's Thievish Progress (III) 1970, Stanley Spencer: Letters and Reminiscences 1978, Stanley Spencer: The Man 1979, Victor Hammer: Artist and Craftsman 1978, Walter Greaves 1979. *Address:* Beauforest House, Newington, Dorchester-on-Thames, Oxfordshire, OX9 8AG; 8 Tryon Street, London, SW3 3LH, England.

ROTHERMERE, 3rd. Viscount; **Vere Harold Esmond;** British newspaper owner; b. 27 Aug. 1925, London; s. of 2nd Viscount Rothermere and Margaret Hunam Redhead; m. Mrs. Patricia Evelyn Beverley Brooks (née Matthews) 1957; one s. two d. one step d.; ed. Eton, Kent School Conn., U.S.A.; General Manager of Daily Sketch 1955-63; Vice-Chair. Assoc. Newspapers Group Ltd. 1963-71, Chair. 1971-; Chair., Daily Mail and General Trust Ltd. 1978-; Dir., Reuters Ltd., Consolidated Bathurst (Canada); Chair. U.K. Section Commonwealth Press Union 1977. Fellow, Royal Soc. of Arts, British Inst. of Man.; Commdr. Order of Lion of Finland; Commdr. Order of Merit(Italy). *Leisure interests:* painting, sailing, reading. *Address:* New Carmelite House, Carmelite Street, London, E.C.4., England.; London Daily Mail, 220 East 42nd. Street, New York, NY, U.S.A.; 36 rue de Sentier, Paris 75002, France. *Telephone:* 01-353-6000 (London), 212 986-1950 (New York) 508-4841 (Paris).

ROTHSCHILD, 3rd Baron, cr. 1885; **Nathaniel Mayer Victor Rothschild,** G.B.E., G.M., PH.D., SC.D., F.R.S.; British; b. 31 Oct. 1910, London; s. of Nathaniel C. Rothschild and Rozsika V. Wertheimstein; m. 1st Barbara J. Hutchinson 1933, 2nd Teresa G. Mayor 1946; two s. four d.; ed. Harrow and Trinity Coll., Cambridge; Fellow of Trinity Coll., Cambridge 1935-39; Mil. Intelligence 1939-45; B.O.A.C. 1946-48; Chair. Agric. Research Council 1948-58; mem. B.B.C. Gen. Advisory Council 1952-56; Asst. Dir. of Research, Dept. of Zoology, Cambridge Univ. 1950-70; Research Co-ordinator of Royal Dutch Shell Group of Cos. 1965-70; mem. Council for Scientific Policy 1965-67, Cen. Advisory Council for Science and Technology; Dir.-Gen. Cen. Policy Review Staff, Cabinet Office 1971-74; mem. Board, Chair. N. M. Rothschild & Sons 1975-76, Rothschilds Continuation Ltd. 1976-; Chair. Royal Comm. on Gambling 1976–; delivered Dimbleby Lecture 1978; Hon. Fellow, Trinity Coll., Cambridge, Weizmann Inst. of Science, Israel, Bellairs Research Inst. of McGill Univ., Barbados, Univ. Coll., Cambridge, Inst. of Biology, Imperial Coll. of Science and Tech.; Hon. D.Sc. (Newcastle, Manchester, Technion, Haifa, City Univ., London, Bath 1978), Hon. Ph.D. (Tel-Aviv Univ., Hebrew Univ.), Hon. LL.D. (Univ. of London); American Legion of Merit, American Bronze Star, Melchett Medal 1971, R.S.A. Medal 1972. *Publications:* A Classification of Living Animals, Fertilization, The History of Tom Jones, A Changeling, Meditations of a Broomstick 1977, and ▪ number of scientific papers. *Leisure interests:* golf, jazz. *Address:* 11 Herschel Road, Cambridge, CB3 9AG, England. *Telephone:* 50488.

ROTHSCHILD, Baron Alain James Gustave Jules de; French banker; b. 7 Jan. 1910; ed. Univ. de Paris, Partner in Banque de Rothschild Frères 1946-67; Vice-Pres. Banque Rothschild 1968; Pres. Soc. d'investissement du Nord 1963-67, Cie. du Nord 1968, Vice-Pres. Conseil de Surveillance, Banque Rothschild, Discount Bank (France) 1976, Consistoire Cen. Israélite de France 1967-, Rep. Council of Jewish Inst. of France 1976-; Mayor of Chamant 1959-; Officier, Légion d'honneur, Croix de guerre. *Address:* 21 rue Laffitte, 75009 Paris, France.

ROTHSCHILD, Edmund Leopold de; British merchant banker; b. 2 Jan. 1916, London; s. of Lionel N. de Rothschild and Marie Louise Beer; m. Elizabeth E. Lentner 1948; two s. two d.; Deputy Chair. British Newfoundland Corpn. Ltd. 1963-69, Churchill Falls (Labrador) Corpn. Ltd. 1966-69; Pres. N. M. Rothschild & Sons Ltd. 1975-; Chair. Tokyo Pacific Holdings (Seaboard) N.V., Tokyo Pacific Holdings N.V., Straflo Ltd.; Dir. Alliance Assurance Co. Ltd., Sun Alliance and London Insurance ltd., Sun Insurance Office Ltd., Brinco Ltd., Carreras Rothmans Ltd., Rothmans Int. Ltd., Alfred Dunhill Ltd., Exbury Gardens Ltd.; Pres. Assen. of Jewish Ex-Servicemen and Women; Vice-Chair. Cen. British Fund for Jewish Relief and Rehabilitation; mem. Council Royal Nat. Pension Fund for Nurses; Trustee, Queen's Nursing Inst., British Freedom from Hunger Campaign; Vice-Pres. Council of Christians and Jews, Friends of Hebrew Univ. *Publications:* Window on the World. *Leisure interests:* gardening, shooting, fishing, photography. *Address:* N. M. Rothschild & Sons Ltd., New Court, St. Swithins Lane, London, EC4P 4DU, England.

ROTHSCHILD, Baron Elie Robert de, F.R.S.M.; French banker; b. 29 May 1917, Paris; s. of Baron Robert de Rothschild and Nelly Beer; m. Liliane Fould-Springer 1942; one s. two d.; ed. Lycée Louis le Grand, Faculty of Law, Univ. de Paris; Pres. and Dir.-Gen. de P.L.M., La Féderation Continentale; Vice-Pres. du Conseil de Surveillance de la Banque Rothschild, Cie. d'assurances "La Con-

corde"; Pres. Rothschild Bank, Zürich; Dir. Tokyo Capital Holdings, Arrows Capital N.V.; Officier Légion d'honneur, Croix de guerre, Ufficiale Ordine Al Merito della Repubblica Italiana. *Leisure interests:* shooting, yachting. *Address:* 21 rue Laffitte, 75009 Paris, (Office); 11 rue Masseran, 75007 Paris, France (Home). *Telephone:* 247-82-47 (Office); 306 90-90 (Home).

ROTHSCHILD, Baron Guy Edouard Alphonse Paul de; French banker; b. 21 May 1909, Paris; m. 1st Alix Schey de Koromla, 2nd Baronne Marie-Hélène van Zuylen van Nyevelt; two s.; ed. Lycées Condorcet and Louis le Grand, Univ. de Paris; Dir. Banque Rothschild, Société IMETAL, Rio Tinto Zinc Corpn. 1962-68, New Court Securities Corpn., Soc. Minière et Métallurgique de Peñarroya, Centro Asegurador S.A. Madrid; Officier Légion d'honneur, Croix de guerre. *Leisure interests:* breeding and racing horses. *Address:* 2 rue St. Louis en l'Isle 75004 Paris, France.

ROTHSCHILD, Robert, DR.RER.POL.; Belgian diplomatist (retd.); b. 16 Dec. 1911, Brussels; s. of Bernard Rothschild and Marianne von Rynveld; one d.; ed. Univ. of Brussels and Acad. of Int. Law, The Hague; entered Foreign Office 1937; served Lisbon 1941, Chungking 1944, Shanghai 1946, Washington, D.C. 1950; Deputy Permanent Rep. to NATO 1952; Chef de Cabinet, Foreign Office 1954-58; Amb. to Yugoslavia 1958-60; Deputy Chief of Diplomatic Mission to the Republic of Congo 1960; Chef de Cabinet, Foreign Office 1961-64; Ambassador to Switzerland 1964-66, to France 1966-73, to U.K. and Perm. Rep. to W.E.U. Council 1973-76; awards include Commdr. Order of Leopold (Belgium), Commdr. Légion d'honneur (France), Hon. K.C.M.G. (U.K.). *Address:* 51 Avenue Général de Gaulle, Brussels, Belgium; 43 Ranelagh Grove, London, S.W.1, England. *Telephone:* 730-6352 (London).

ROTOV, Boris Georgiyevich (see Nikodim).

RÖTZSCH, Helmut, D.PHIL.; German librarian; b. 17 Dec. 1923, Leipzig; ed. Buchhändler-Lehranstalt, Leipzig, and Karl-Marx Univ., Leipzig; Dir. of Admin. and Personnel Dept., Deutsche Bücherei 1950-52, Dir. of Acquisition Dept. 1953-58, Deputy Dir. 1959-61, Dir.-Gen. 1961-; Town Councillor, Leipzig 1961-; Pres. Bibliotheksverband der D.D.R. 1968-74, mem. of presidency 1974–;Distinguished Service Medal of G.D.R. 1959, Bronze Medal 1964; Titular Prof. Librarianship and Information Science 1970; Wilhelm Bracke Gold Medal 1973; Order Banner of Labour 1976. *Publications:* Der Börsenverein der deutschen Buchhändler zu Leipzig und die Deutsche Bücherei 1962, Die Deutsche Bücherei—die Deutsche Nationalbibliothek 1962, Anton Graff und seine Buchhändlerporträts 1965; Editor: Deutsche Bücherei 1912-62, Jahrbuch der Deutschen Bücherei 1965-, Beiträge zur Geschichte des Buchwesens 1965-. *Address:* Karl-Rothe-Strasse 15, 7022 Leipzig, German Democratic Republic. *Telephone:* 52206.

ROUAMBA, Tensoré Paul; Upper Voltan diplomatist; b. 28 March 1933, Ouagadougou; m. Jeanne Zongo; two s. two d.; ed. Univs. of Bordeaux, Grenoble and Paris; mem. Constitutional Chamber of Supreme Court of Upper Volta; fmr. Asst. Prof., Centre of Tropical Geography, Univ. of Abidjan; Prof. at Normal School, Ouagadougou 1963-65; Perm. Rep. of Upper Volta to UN 1966-72; Amb. to U.S.A. and Canada 1966-72, to Nigeria 1972, to Ghana 1972-. *Leisure interests:* basketball, bridge, horse-riding. *Address:* Embassy of Upper Volta, House No. 772/3, Asylum Down, off Farrar Avenue, P.O. Box 651, Accra, Ghana.

ROUGEMONT, Denis de, L. ÈS L.; Swiss author; b. 8 Sept. 1906, Neuchâtel; s. of Georges de Rougemont and Alice-Sophie Bovet; m. Anahite Repond 1952; one s. one d.; Lecturer, Univ. of Frankfurt-on-Main 1935-36; Prof. Ecole Libre des Hautes Etudes, New York 1941; one of the founders of the Personalist Movement in Paris 1933, contrib. to leading periodicals in Europe, North and South America; Pres. Centre Européen de la Culture; Chair. Exec. Cttee. Congress for Cultural Freedom 1951-66; Chair. Round Table Council of Europe 1953, 1955; Chair. European Assen. of Music Festivals, Prof. Inst. Univ. d'Etudes Européennes, Geneva; Corresp. mem. Acad. des Sciences morales et politiques, Paris, Acad. of Athens. *Publications:* Politique de la personne, Penser avec les mains, journal d'un intellectuel en chômage, Journal d'Allemagne, L'amour et L'Occident (new version 1956), Nicolas de Flue, Mission ou démission de la Suisse, The Heart of Europe, La part du diable, Les personnes du drame, Lettres sur la bombe atomique, Vivre en Amérique, Journal des deux-mondes, L'Europe en jeu, Doctrine fabuleuse, Suite neuchâteloise, Lettres aux Députés Européens, La Confédération helvétique, L'aventure occidentale de l'homme, Comme toi-même, Vingt-huit siècles d'Europe, Les chances de l'Europe, The Christian Opportunity, La Suisse ou l'histoire d'un peuple heureux, Journal d'une époque (1926-1946), Lettre ouverte aux Europeéns, Le cheminement des Esprits (1946-1970), L'un et le divers, Les méfaits de l'instruction publique, Les dirigeants et les finalités de la société occidentale, L'avenir est notre affaire. *Leisure interest:* dry-stone walling. *Address:* 01.630 St. Genis-Pouilly, France. *Telephone:* (50) 41.13.85.

ROUHANI, Fuad, LL.M.; Iranian lawyer and executive; b. 23 Oct. 1907, Teheran; s. of Ali Akbar Rouhani; m. Rohan Fath-Aazam 1927; two d.; ed. Teheran, London Univ.; Anglo-Iranian Oil Co., Legal and Admin. Branches 1926-51; Chief Legal Adviser, Nat. Iranian Oil Co. 1951-54, Dir. 1954-79, Man. Dir., Deputy Chair. 1956-79; Sec.-Gen. and Chair. Board of Govs., OPEC 1961-64; Prof. of Iranian Studies at Columbia Univ. 1964-65; Sec.-Gen., Org. of Regional Co-operation for Devt. between Iran, Pakistan and Turkey 1965-68; Amb. 1965; Adviser to Prime Minister of Iran; now in private practice as expert on Iranian and int. law; part-time Legal Adviser to Cen. Bank of Iran 1972; reappointed Adviser to Prime Minister and to Cen. Bank 1976; D. en D. (Paris) 1968. *Leisure interests:* music, philosophy, religions, languages.

ROUILLON, Fernand; French diplomatist; b. 11 Dec. 1920, Condrieu (Rhône); m. Annick Chavoix 1946; nine c. ed. Tivoli Coll., School of Political Sciences, Bordeaux Univ.; with Ministry of Foreign Affairs 1944-; Dept. of Econ. Affairs 1944-47; Tunis, London (NATO) and Ottawa 1947-56; Dept. of Eastern Europe 1956-58, of Cultural Affairs 1958-60; Rabat, New York (UN), and Athens 1960-70; Asst. Dir. Dept. of Middle East 1970-75; Amb. to Syria June 1975-; Chevalier, Légion d'honneur; Officier, Ordre nationale du Mérite. *Address:* French Embassy, rue Ata Ayoubi, Damascus, Syria.

ROULEAU, Joseph-Alfred; Canadian bass singer; b. 26 Feb. 1929, Matane, Quebec; s. of Joseph-Alfred Rouleau and Florence Bouchard; m. Renée Moreau 1952; one s. two d.; ed. Coll. Jean De Brebeuf, Montreal, Univ. of Montreal, Conservatoire of Music, Province of Quebec; three years in Milan for singing studies; debut in Montreal 1955, at Royal Opera House, Covent Garden 1957-, has sung over 30 roles at Covent Garden; guest artist at principal Opera Houses all over the world; tours of Canada 1960, Australia (with Joan Sutherland) 1965, Russia 1966, 1969, Romania, S. Africa 1974, 1975, 1976; Paris Opera 1975; recordings for E.M.I. include: Scenes from Anna Bolena, Ruddigore, Romeo et Juliette (Gounod); for L'oiseau lyre: L'enfance du Christ (Berlioz); for Decca: Semiramide, Boris Godunov, Renard (Stravinsky), and recording of French operatic arias with Royal Opera House Orchestra; several awards including Prix Calixa-Lavallée 1967 (La Société St. Jean Baptiste, Montreal). *Major roles include:* Boris Godunov (Boris Godunov), Philip II (Don Carlo), Basilio (Barber of Seville), Mephisto (Faust), Dosifei (Khovanschina), Don Quixote (Don Quixote). *Address:* Royal Opera House, London, W.C.2; 76 Brookside Avenue, Beaconsfield, Que. H9W 5C6, Canada (Home). *Telephone:* 01-467 5315.

ROUMAJON, Yves Pierre Jean; French psychiatrist; b. 13 Dec. 1914, Aix-en-Provence; s. of late Joseph Roumajon and Camille Guilbaud; m. 1954; one s.; ed. Lycée Champollion, Grenoble, Collège Municipal de Chalons-sur-Marne, Lycée Faidherbe, Lille, and Lycée Louis-le-Grand, Paris; fmr. Intern, Hôpitaux Psychiatriques de la Seine; Medical Head of Psychiatric Service, Choquan Hospital, S. Viet-Nam 1950-52; Head of Clinic, Faculty of Medicine 1953; Doctor, Seine Centre for Educational Guidance for Children and Adolescents 1953-60; Psychiatrist, Educ. Service for Young Prisoners, Fresnes Prison 1958-70; medical Dir. C.M.P. Vauhallan 1970; Expert at Paris Court of Appeal 1958-, and Court of Cassation 1963-; mem. Board of Dirs. Int. Soc. of Criminology 1963, Treas. 1972; Pres. Assen. française de Criminologie 1969; Officier Légion d'honneur, Croix de guerre 1939-45, etc. *Publications:* Ils ne sont pas nés délinquants 1977. *Address:* 5 rue Cambon, Paris 1er, France. *Telephone:* 260-81-10.

ROUS, Sir Stanley Ford, Kt., C.B.E., J.P.; British sports administrator; b. 25 April 1895, Mutford, Suffolk; s. of George S. and Alice Rous; m. Adrienne Gacon 1924; ed. St. Luke's Coll., Exeter; served European War 1914-18; Asst. Master Watford Grammar School 1921-34; Sec. of the Football Fed. 1960; Chair. The Central Council of Physical Recreation 1946-73, Hon. Vice-Pres. 1973-; mem. Int. Fed. of Assen. Football, Pres. 1961-74, Hon. Life Pres. 1974-; Vice-Pres. Arts Educational Schools; Chevalier, Couronne de Chêne, Luxembourg; Chevalier de la Légion d'honneur France; Commendatore dell'Ordine al merito della Repubblica Italiana; Commdr. de l'Ordre du Ouissam Alaouite (Morocco) 1968; Commdr. Ordre nat. du Lion (Senegal) 1975; Grand Cross of Merit, Order of Merit, Fed. Repub. of Germany 1974. *Address:* 115 Ladbroke Road, London, W.11, England. *Telephone:* 01-727 4113.

ROUSE, Irving, B.S., PH.D.; American professor of anthropology; b. 29 Aug. 1913, Rochester, N.Y.; s. of B. Irving Rouse and Louise Bohachek; m. Mary Mikami 1939; two s.; Asst., then Assoc. Curator,

Peabody Museum of Natural History, Yale Univ. 1938-62, Instructor to Assoc. Prof. 1939-54, Prof. of Anthropology 1954-; fmr. Chair. Dept. of Anthropology; Pres. Soc. for American Archaeology 1952-53, American Anthropological Assn. 1967-68; Charles J. MacCurdy Prof. of Anthropology (Yale Univ.) 1969-; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences, New York Acad. of Sciences, Royal Anthropological Inst.; Pres. Assn. for Field Archaeology 1977-79; A. Cressy Morrison Prize in Natural Sciences, Viking Fund Medal in Anthropology. *Publications:* Prehistory in Haiti 1939, Culture of the Ft. Liberté Region, Haiti 1941, Archeology of the Maniabón Hills, Cuba 1942, A Survey of Indian River Archeology, Florida 1951, Porto Rican Prehistory 1952, An Archeological Chronology of Venezuela (with J. M. Cruxent) 1958, Venezuelan Archeology (with J. M. Cruxent) 1963, Introduction to Prehistory 1972. *Leisure interests:* singing, swimming. *Address:* Department of Anthropology, Yale University, New Haven, Conn. 06520 (Office); 12 Ridgewood Terrace, North Haven, Conn. 06473, U.S.A. (Home). *Telephone:* 203-436-8421.

ROUSSEL, Claude; French journalist; b. 7 Feb. 1919, Paris; s. of Pierre Roussel; m. Aasa Billquist 1955; one s. one d.; ed. Lycée Louis-le-Grand, Ecole Normal Supérieure; French Resistance 1941-44; co-founder Agence Information et Documentation and of Agence France-Presse 1944; Asst. Sec.-Gen., later Sec.-Gen. Agence France-Presse 1944-51, Dir. in Scandinavia 1951-54, Sec.-Gen. 1954-75, Pres.-Dir.-Gen. 1975-78; Pres. Union Européenne des Agences Photographiques 1960-65; Chevalier, Légion d'honneur. *Leisure interests:* tennis, swimming, skiing. *Address:* 13 rue Nicolo, 75016 Paris, France.

ROUSSELET, Marcel, D. en D., D. és L.; French lawyer; b. 6 Dec. 1893; ed. Nancy and Paris Univs.; entered Magistracy 1920; Deputy at Tribunal de la Seine 1932; Pres. Tribunal de la Seine 1944-50; First Pres. Paris Court of Appeals 1950-62, First Hon. Pres. Sept. 1962-; mem. l'Institut de France, Acad. des Sciences Morales et Politiques 1959-; Commdr. de la Légion d'honneur. *Publications:* Les livres fonciers en Alsace Lorraine 1920, La magistrature sous la monarchie de juillet 1937, L'affaire du duc de Praslin et la magistrature 1937, Histoire de la justice 1943, Les souverains devant la justice 1946, Histoire de la magistrature française des origines à nos jours 1957, Berryer devant la cour d'assises 1965, Les cas de conscience du magistrat 1967. *Address:* 52 rue des Ecoles, 75005 Paris, France.

ROUSSIN, André Jean Paul, B. ÉS L.; French playwright; b. 22 Jan. 1911; ed. Inst. Mélizan, Marseilles; left journalism to found "Le Rideau Gris" with Louis Ducreux; mem. Académie Française 1973-; Officier de Mérite Nat.; Commdr. des Arts et Lettres; Officier, Légion d'honneur. *Plays include:* Am-stram-gram, Une grande fille toute simple, Jean-Baptiste le mal-aimé, Le tombeau d'Achille, La sainte famille, La petite hutte, Les oeufs d'Autriche, Nina, Bobosse, Lorsque l'enfant paraît, La main de César, Le mari, la femme et la mort, L'amour fou, La mamma, Une femme qui dit la vérité, Les Glorieuses, L'Ecole des autres, Un amour qui ne finit pas, La voyante, La locomotive, On ne sait jamais, Le claque; (essays) Patience et impatiences 1953, Un contentement raisonnable 1965, La boîte à couleurs 1974. *Address:* 12 Place des Victoires, 75002 Paris, France.

ROUX, Abraham Johannes Andries, D.SC.(ENG.), M.SC., M.I.MECH.E.; South African nuclear scientist; b. 18 Oct. 1914, Bethlehem, Orange Free State; s. of Abraham J. A. Roux and Anna S. Naude; m. Ulrica Prinsloo 1939; one s. one d.; ed. Univ. of the Witwatersrand; Lecturer, Dept. of Mechanical Engineering, Witwatersrand Univ. 1939-43; Senior Lecturer, Stellenbosch Univ. 1944-46; Principal Research Officer, Nat. Building Research Inst., Council for Scientific and Industrial Research (C.S.I.R.) 1946-51, Officer in Charge C.S.I.R. Mech. Engineering Research Unit 1952; Dir. Nat. Physical Research Lab. 1952-55, Nat. Mech. Engineering Research Inst., C.S.I.R. 1955-57, Vice-Pres. C.S.I.R. 1957-69; Part-time Dir. Atomic Energy Research Programme 1957-59, Dir. of Research, Atomic Energy Board 1959-60, Dir. Atomic Energy Board 1960-64, Dir.-Gen. 1964-67, Chair. 1967-70, Pres. 1971-; Chair. Nat. Inst. for Metallurgy 1967-76, UCOR 1970-; Vice-Chair. S.A. Akad. vir Wetenskap en Kuns 1961, Chair. 1963; mem. Board of Dirs. Nuclear Fuels Corpn. 1968-77; mem. Prime Minister's Scientific Advisory Council 1962-75, Univs. Advisory Cttee. 1966-74, 1976-, C.S.I.R. 1966-, S.A. Council of Professional Engs. 1968, Prime Minister's Planning Advisory Cttee. 1974-, Cttee. on Energy Policy, Dept. of Planning and the Environment 1974-; Hon. mem. S.A. Inst. of Mining and Metallurgy; Hon. D.Sc. (Stellenbosch, Witwatersrand Univs.); Hendrik Verwoerd Award (with Dr. W. L. Grant *q.v.*). *Publications:* Mechanical Engineering Research in South Africa 1952, Mechanical Engineering in Relation to Industry 1955-57, Developments in the Field of Nuclear Power and their Impact on South Africa 1958, The Atomic Energy Research and Development Programme of South Africa 1959, Science, Industry and the Professional Society 1960, The First Reactor Installation of the Republic of South Africa 1962, South Africa's Programme of Nuclear Research 1962, The Scope of Research and Development in the Field of Radioisotopes and Nuclear Radiation in South Africa 1964, Nuclear Engineering in South Africa 1964, Power Generation in South Africa with Special Reference to the Introduction of Nuclear Power (Co-author) 1966, Nuclear Energy in South Africa 1967, Energy for the Coming Century—Nuclear Energy 1969, Policy Aspects of the Introduction of Nuclear Power in South Africa (Co-author) 1969, South Africa's Position in the World Energy Picture 1973, Exploitation of South Africa's Mineral Potential 1974, The South African Uranium Enrichment Project 1975, Nuclear Fuel Cycle Developments in South Africa 1976. *Leisure interest:* golf. *Address:* Atomic Energy Board, Private Bag X256, Pretoria 0001 (Office); 79 Stella Street, Brooklyn, Pretoria 0002, South Africa (Home). *Telephone:* 79-4441, Ext. 200.

ROUX, Ambroise Marie Casimir; French business executive; b. 26 June 1921, Piscop, Val d'Oise; s. of André Roux and Cécile Marcilhacy; m. Françoise Marion 1946; one s. one d.; ed. Collège Stanislas, Paris, Ecole Polytechnique, Ecole des Ponts et Chaussées, Ecole Supérieure de l'Electricité; Engineer, Civil Eng. Dept. 1944-51; Exec. Dir. Office of Sec. of State for Industry and Commerce, Industry Dept. 1952-55; Senior Vice-Pres. Compagnie Générale d'Electricité, Paris 1955-63, Pres. 1963-, Dir. 1966-, Chair. of Board 1970-; Vice-Chair. Crédit Commercial de France 1974-; Dir. and Hon. Chair. Pétrofigaz; Chair. of Board, Cie. Industrielle des Télécommunications CITAL-CATEL 1966-, Cie. Electro Financière 1969, AFNOR 1972-; Dir. Alsthom-Atlantique, Crédit National, Société La Radio technique, Péchiney Ugine Kuhlmann, Cie. Financiére de Paris et des Pays-Bas, Soc. Nat. d'Investissement; Vice-Chair. Fed. French Industries 1966-74, First Vice-Chair. 1975-; Chair. AGREF 1976-; Commdr. Légion d'honneur; Commdr. Mérite commercial; Officier de l'Instruction publique. *Address:* 54 rue La Boétie, 75382 Paris Cedex 08; Home; 17 place des Etats-Unis, 75116 Paris, France. *Telephone:* 563-14-14.

ROUX, Jacques; French diplomatist; b. 1 March 1907, Avignon; s. of Pierre Roux and Jeanne Sivan; m. Consuelo Eyre 1964; ed. Collège Saint-Joseph, Avignon, Facultés de droit d'Aix [illegible] Provence et de Paris, Ecole libre de sciences politiques; Diplomatic Service, London 1934-37; Ministry of Foreign Affairs 1937; Sec. Chungking 1945, Counsellor Nanking 1946; Dir. of Asian Dept., Ministry of Foreign Affairs 1952-56, Asst. Dir.-Gen. of Political Affairs 1956, 1957-63, Asst. Dir. Office of Minister 1956-57; Amb. to United Arab Republic 1963-68, to Switzerland 1969-72; Minister of Monaco, Berne 1972-; Commdr. Légion d'honneur. *Address:* Elfenaustrasse 65, 3074 Muri-Berne, Switzerland.

ROWICKI, Witold; Polish conductor and composer; b. 26 Feb. 1914, Taganrog, U.S.S.R.; s. of Jan and Nadieżda Rowicki; m. Joanna Nowak 1939; one s. one d.; ed. Cracow Conservatoire; debut as conductor 1932; appearances as soloist and in chamber ensembles 1932-45; Founder, Musical Dir. and Chief Conductor Radio Symphony Orchestra, Katowice 1945-50; Prof. Superior School of Music, Warsaw 1952-54; Organizer, Musical Dir. and Chief Conductor Warsaw Philharmonic Orchestra, now Nat. Philharmonic Orchestra 1950-55, 1958-77; Dir. Teatre Wielki Opera Centre 1965-70; Dir. summer courses of interpretation for conductors, Vienna 1976-78; conducted in many European, African, Asian, North and South American countries, and Australia; Grand Prix du Disque, Acad. Charles Cros, Paris 1959, Minister of Culture and Art Prize 1963, 1977 (1st Class), Grand Prix Belge 1965, Edison Prize, Amsterdam 1965, Grand Prix Nat. du Disque, Paris 1966, State Prize 1966, Award of Union of Composers 1962, Officers Cross of Polonia Restituta, Order of the Banner of Labour (1st class), etc. *Address:* Ul. Chocimska 35, m. 12, 00-791 Warsaw, Poland. *Telephone:* 49-80-64.

ROWLAND, Air Marshal Sir James Anthony, K.B.E., D.F.C., A.F.C., B.E., C.ENG., F.R.AE.S., F.I.E. (Aust.); Australian air force officer; b. 1 Nov. 1922, Armidale, N.S.W.; s. of Commdr. Louis Claude Rowland and Elsie Jean Wright; m. Faye Alison Doughton 1955; one d.; ed. Univ. of Sydney; Master Bomber, Pathfinder Force, Bomber Command R.A.F. 1944; with R.A.A.F.; Chief Test Pilot, Aircraft Research and Devt. Unit 1951-54, C.O. 1958-60; Officer Commanding Research and Devt. 1958-60; Chief Tech. Officer, No. 82 Wing 1957, Mirage Mission, Paris 1961-64; Commanding No. 3 Aircraft Depot, Amberley 1967-68; Senior Tech. Staff Officer, HQ Operational Command 1969-70; with Dept. of Air: Dir.-Gen. of Aircraft Eng. 1972, Air Mem. for Tech. Services 1973-74; Chief of Air Staff, R.A.A.F. 1975-; Councillor, Royal Aeronautical Soc., Australian Branch 1973-75. *Publications:* official reports, contri-

butions to journals. *Leisure interests:* carpentry, history, skiing, surfing. *Address:* Department of Defence, Russell Office, Canberra, A.C.T. (Office); 4 Galway Place, Deakin, A.C.T. 2600, Australia (Home). *Telephone:* 65-5474 (Office); 813483 (Home).

ROWLAND, John Russell; Australian diplomatist; b. 10 Feb. 1925, Armidale, N.S.W.; s. of L. C. and E. J. Rowland; m. Moira Enid Armstrong 1956; one s. two d.; ed. Cranbrook School, Sydney, and Univ. of Sydney; Dept. of External Affairs 1944-, served Moscow 1946-48, Saigon 1952, 1954-55, Washington 1955-56, London 1957-59; Asst. Sec., Dept. of External Affairs 1961-65; Amb. to U.S.S.R. 1965-68, First Asst. Sec. Dept. of External Affairs 1969; High Commr. in Malaysia 1969-72, Amb. to Austria, Czechoslovakia, Hungary and Switzerland 1973-74, to France 1978; Deputy Sec., Dept. of Foreign Affairs 1975-78. *Publications:* The Feast of Ancestors 1965, Snow 1971 (poetry), Times and Places 1976 (poetry), The Clock Inside 1979 (poetry). *Address:* Department of Foreign Affairs, Administrative Building, Canberra, A.C.T. 2600, Australia.

ROWLING, Rt. Hon. Wallace Edward, M.A.; New Zealand politician; b. 15 Nov. 1927, Motueka, South Island; m. Glen Elna Reeves 1951; two s. one d.; ed. Nelson Coll. and Canterbury Univ.; Former Educ. Officer, New Zealand Army, now Col. Commdt. N.Z. Army Educ. Corps; mem. Parl. for Buller 1962-72, Tasman 1972-; Pres. Labour Party 1970-73; Minister of Finance 1972-74; Prime Minister 1974-75, also Minister of Foreign Affairs, of Legislative Dept., in charge of N.Z. Security Intelligence Dept., the Audit Dept; Leader of Opposition 1975-. *Leisure interests:* golf, badminton. *Address:* Parliament Buildings, Wellington, New Zealand. *Telephone:* Wellington 736025.

ROWSE, Alfred Leslie, D.LITT., F.R.S.L.; British historian and writer; b. 4 Dec. 1903, St. Austell, Cornwall; ed. in Cornwall, and Christ Church, Oxford; Fellow British Acad.; Emer. Fellow All Souls Coll., Oxford. *Publications:* Sir Richard Grenville of the Revenge 1937, Tudor Cornwall 1941, Poems of a Decade 1931-41, A Cornish Childhood 1942, The Spirit of English History 1943, Poems Chiefly Cornish 1944, The English Spirit 1944, West Country Stories 1945, The Use of History 1946, Poems of Deliverance 1946, The End of an Epoch 1947, The England of Elizabeth 1950, The English Past 1951 (revised edn. entitled Times, Persons, Places 1965), Lucien Romier's History of France trans. and completed 1953, The Expansion of Elizabethan England 1955, The Early Churchills 1956, The Later Churchills 1958, Poems Partly American 1959, The Elizabethans and America 1959, St. Austell: Church, Town, Parish 1960, Appeasement: A Study in Political Decline 1961, Ralegh and the Throckmortons 1962, William Shakespeare: A Biography 1963, Shakespeare's Sonnets 1964 (rev. edn.) 1973, Christopher Marlowe: A Biography 1964, A Cornishman at Oxford 1965, Shakespeare's Southampton 1965, Bosworth Field and the Wars of the Roses 1966, Poems of Cornwall and America 1967, Cornish Stories 1967, A Cornish Anthology 1968, The Cornish in America 1969, The Elizabethan Renaissance: Vol. I The Life of the Society 1971, Vol. II The Cultural Achievement 1972, The Tower of London in the History of the Nation 1972, Strange Encounter: Poems 1972, Shakespeare the Man 1973, Simon Forman: Sex and Society in Shakespeare's Age 1974, Windsor Castle in the History of the Nation 1974, Peter, The White Cat of Trenarren 1974, Victorian and Edwardian Cornwall (with Sir John Betjeman) 1974, Oxford in the History of the Nation 1975, Discoveries and Reviews from Renaissance to Restoration 1975, Jonathan Swift—Major Prophet 1975, A Cornishman Abroad 1976, Brown Buck: A Californian Fantasy 1976, Matthew Arnold: Poet and Prophet 1976, Shakespeare the Elizabethan 1976, Homosexuals in History: Ambivalence in Society, Literature and the Arts 1977, Milton the Purity 1977, Heritage of Britain 1977, The Road to Oxford: Poems 1978, The Poems of Shakepeare's Dark Lady (ed. with introduction) 1978, The Byrons and Trevanions 1978, The Annotated Shakespeare 1978, Roper's Life of Sir Thomas More (ed. with Letters and introduction) 1979, A Man of the Thirties 1979, Portraits and Views 1979, Three Cornish Cats 1979, Story of Britain 1979. *Leisure interests:* seeing historic places, music, gardening. *Address:* Trenarren, St. Austell, Cornwall, England.

ROY, Bhabesh Chandra, D.I.C., M.SC., DR.ING.; Indian geologist; b. 1 Aug. 1907; ed. Imperial Coll., London, Univ. of Nancy, and Univ. of Freiberg, Germany; joined Geological Survey of India 1937, Dir. 1958-61, Dir.-Gen. 1961-65; UN Fellow in U.S.A. and Canada 1957; mem. Oil and Natural Gas Comm. 1964-65; Del. to ECAFE Mineral Confs. in Tokyo 1955, Kuala Lumpur 1958, U.S.S.R., U.K., France and Germany 1955, Rome and Bandung 1963, Vienna 1964, Antwerp 1966, Mexico City 1967, New Zealand 1970; Leader Del. Int. Geological Congress, Copenhagen 1960; and numerous other int. geological meetings; Pres. Geological, Mining and Metallurgical Inst. of India 1958-59, Indian Assen. Geohydrologists 1970-71; Co-ordinator Geological Map for Asia and Far East 1958-68; Vice-Pres. Int. Union of Geological Sciences 1961-68; Sec.-Gen. Int. Congress, New Delhi 1964; Chair. Dept. of Geology, Univ. of Nigeria 1966-67, U.G.C. Prof., Presidency Coll., Calcutta 1968-; Editor Journal of Mines, Metals and Fuels 1968-; Vice-Pres. I.G.C. Comm., History of Geological Sciences 1968-76; Fellow, Nat. Inst. of Sciences of India; Medallist Czechoslovak Acad. Sciences 1969. *Publications include:* Mineral Resources of Bombay 1961, Economic Geology and Mineral Resources of Saurashtra 1953, The Nellore Mica Belt 1956, The Economic Geology and Mineral Resources of Rajasthan and Ajmer 1957; numerous articles on Geology and Mineral Resources. *Leisure interests:* music, photography. *Address:* 37/3, Southend Park, Calcutta 29, West Bengal, India. *Telephone:* 46-3189.

ROY, Claude; French writer; b. 28 Aug. 1915; ed. Univ. of Paris; war service 1939-40; imprisoned and escaped 1940; in the Free Zone of France 1940-43; contributed to the review Poésie 1940, 1941, etc., and to the review Fontaine; mem. Resistance in Southern Zone, Les Etoiles movement; contributed to the clandestine Press Les Lettres Françaises; War Corresp. after the Liberation; Croix de guerre; Prix Fémina-Vacaresco 1970. *Publications:* L'enfance de l'art 1941, Clefs pour l'Amérique, Clefs pour la Chine, Descriptions critiques, La nuit est le manteau des pauvres, Le soleil sur la terre, Le malheur d'aimer, Le journal des voyages, L'homme en question, Gérard Philipe (with Anne Philipe), Léone et les siens, L'armour du théâtre, La dérobée, Jean Vilar, Défense de la littérature 1968, Le verbe aimer 1969, Moi je (memoirs) 1969, Nous (memoirs 1944-56) 1972, Le soleil des romantiques 1974, Enfantasques 1974, Somme toute 1975 (memoirs 1955-75), Nouvelles enfantasques 1978. *Address:* Editions Gallimard, 5 rue Sébastien-Bottin, 75007 Paris, France.

ROY, H.E. Cardinal Maurice, D.D., D.PH.; French Canadian ecclesiastic; b. 25 Jan. 1905, Quebec; s. of the Hon. Justice Ferdinand Roy and Mariette Legendre: ed. Laval Univ., Quebec, Inst. Angelicum, Rome, and Inst. Catholique and Sorbonne, Paris; ordained Priest 1927; Prof. of Theology, Laval Univ. 1930-46; Army Chaplain (Canadian Army Overseas) 1939, 1945; Rector of Grand Seminary (School of Theology), Laval Univ. 1946; Bishop of Trois Rivières, Quebec 1946-47; Archbishop (R.C.) of Quebec 1947-; Bishop Ordinary to Canadian Armed Forces; Primate of Canada 1956-; cr. Cardinal by Pope Paul VI 1965; Pres. Council of Laity and Pontifical Comm. for Justice and Peace 1967-77. *Leisure interests:* painting, canoeing. *Address:* Archevêché, C.P. 459, Quebec 4, Quebec, Canada.

ROY, Maurice; French engineer; b. 7 Nov. 1899; ed. Ecole Polytechnique, and Ecole Nat. Supérieure des Mines; Engineer Corps des Mines 1922; Prof Ecole Nat. des Ponts et Chaussées 1926-50, concurrently Prof. Ecole Nat. Supérieure de l'Aéronautique; Dir. La Science Aérienne 1930-35; Prof. Ecole Polytechnique 1947-69; Dir. Office Nat. d'Etudes et de Recherches Aéronautiques 1949-62; Scientific Adviser, Dir. Soc. Nat. d'Etudes et de Construction de Moteurs d'Avion 1949-73; Hon. Chair. Int. Council of Aeronautical Sciences; fmr. Pres. Int. Union of Theoretical and Applied Mechanics, then Vice-Pres.; Pres. Int. Cttee. on Space Research 1962-72; fmr. Pres. French Mathematical Soc.; mem. Acad. des Sciences; Grand Officier Légion d'honneur; F.I.Ae.S. (U.S.), F.R.Ae.S. (U.K.). *Publications include:* papers on jet propulsion and theory of flight. *Address:* 86 avenue Niel, 75017 Paris, France. *Telephone:* 924-01-02.

ROY CHOWDHURY, Devi Prasad, M.B.E.; Indian sculptor and painter; b. 15 June 1899, Rangpur (now Bangladesh); s. of Uma Prasad and Himangni Devi Roy Chowdhury; m. Charulata Banerji 1929; one s.; Prin. Govt. Coll. of Arts and Crafts, Madras 1929-57; fmr. Chair. Lalita Kala Akad., New Delhi; Dir. and Pres. Art Seminar of UNESCO, Tokyo 1955; many prizes in Nat. Modern Sculpture exhbns., Govt. of India; Hon. Dr. of Lit. (Rabindra Bharati Univ., Calcutta) 1968; Padma Bhushan 1958. *Sculptures include:* Martyrs' Memorial in Bronze at Bihar, Triumph of Labour at Madras and New Delhi, Mahatma Gandhi at Madras and Calcutta, Rhythm, Nat. Museum, New Delhi, Motilal Nehru at Parl. House, Delhi, Martyrs' Memorial consisting of eleven double life size figures in bronze, New Delhi, numerous awards for sculpture. *Publications:* Eleven books of short stories and novels, and articles on art. *Leisure interest:* big game hunting. *Address:* 63 Shambhu Nath Pandit Street, Calcutta 25, West Bengal, India. *Telephone:* 47-2921.

ROYER, Jean; French politician; b. 31 Oct. 1920, Nevers; s. of Léon-Antoine Royer and Odette Bourgoin: m. Lucienne Leux 1944; two s. two d.; ed. Ecole primaire supérieure Paul-Louis-Courier,

Tours and Univ. de Poitiers; teacher at Langeais 1945-48, at Sainte-Maure 1950-54, at Tours 1954-58; del. of R.P.F. (Rassemblement du Peuple Français) 1947-51; Ind. Deputy to Nat. Assembly 1958-73, May 1976-; Mayor of Tours 1959-; Councillor for Tours-ouest district 1961-; Minister of Commerce, Trades and Crafts 1973-74, of Posts and Telecommunications March-May 1974. *Address:* Assemblée Nationale, 75355 Paris; 62 rue des Pierres-Plates, Saint-Avertin, 37170 Chambray-les-Tours, France.

ROYO, Aristides; Panamanian lawyer and head of state; b. 1940; ed. Nat. Institute, Panama City, Univ. of Bologna; Public Prosecutor 1965; mem. Comms. to draft Penal Code and new Constitution; Minister of Educ. 1973; President of Panama 1978-; mem. team to negotiate Panama Canal Treaty with U.S.A. *Address:* Oficina del Presidente, Panama City, Panama.

ROYSTER, Vermont Connecticut, A.B., LL.D.; American journalist; b. 30 April 1914, Raleigh, N.C.; s. of Wilbur H. and Olivette B. Royster; m. Francis Claypole 1937; two d.; ed. Univ. of North Carolina; Reporter New York City News Bureau 1936, Wall Street Journal 1936; Washington Corresp. Wall Street Journal 1936-41, 1945-46, Chief Washington Corresp. 1946-48, Editorial Writer and Columnist 1946-48, Assoc. Editor 1948-51, Senior Assoc. Editor 1951-58, Editor 1958-71, Contrib. Editor and Columnist 1971-; Sr. Vice-Pres. Dow Jones & Co. Inc. 1960-71, Dir. 1970-; Pres. American Soc. of Newspaper Editors 1965-66; Kenan Prof. Journalism and Public Affairs, Univ. of N. Carolina 1971-; Fellow, Inst. of Policy Sciences 1973-; frequent Radio and TV appearances; served U.S. Navy 1941-45; mem. Pulitzer Board for Prizes in Journalism and Letters; Hon. Litt.D. (Temple Univ., Phila.), Hon. L.H.D. (Elon Coll., N.C.); Pulitzer Prize for editorial writing 1953 and other awards. *Publications:* Journey through the Soviet Union 1964, A Pride of Prejudices 1967. *Leisure interest:* boating. *Address:* c/o Wall Street Journal, 22 Cortlandt Street, New York, N.Y. 10007, U.S.A.

ROZENKO, Pyotr Akimovich; Soviet politician; b. 1907; ed. Donetsk Mining Inst.; Mining Engineer 1931-54; mem. CPSU 1943–; Dep. Ministry of Coal Industry, Ukraine 1954; Dep. Chair. Council of Ministers Ukraine 1954-57, 1959-63; First Deputy Chair. State Planning Comm. of Ukraine 1957-59, Chair. 1959-63, 1967-; First Deputy Chair. Ukrainian S.S.R. Council of Ministers 1963-; mem. Cen. Cttee. of CPSU 1961-66, Cand. mem. 1966-; Deputy to U.S.S.R. Supreme Soviet 1958-, Chair. Planning and Budgetary Comm. *Address:* Council of Ministers of the Ukrainian S.S.R., Kiev, U.S.S.R.

RÓŻEWICZ, Tadeusz; Polish poet and playwright; b. 9 Oct. 1921, Radomsko; ed. Univ. of Cracow; fmr. factory worker and teacher; State Prize for Poetry 1955, 1956; Literary Prize, City of Cracow 1959; Prize of Minister of Culture and Art 1962, State Prize 1st Class 1966, Cmmdr. Cross of Order Polonia Restituta 1970, Medal of 30th Anniversary of People's Poland 1974, Order of Banner of Labour (2nd class) 1977. *Publications:* 15 vols. of poetry including Niepokój (Faces of Anxiety), Czerwona rękawiczka (The Red Glove), Czas który idzie (The Time Which Goes On), Równina (The Plain), Srebrny klos (The Silver Ear), Rozmowa z księciem (Conversation with the Prince), Zielona róza (The Green Rose), Nic w płaszczu Prospera (Nothing in Prosper's Overcoat), Twarz (The Face), Duszyczka (A Little Soul); *Plays include:* Kartoteka (The Card Index), Grupa Laokoona (Laocoon's Group), Świadkowie albo nasza mała stabilizacja (The Witnesses), Akt przerywany (The Interrupted Act), Smieszny staruszek (The Funny Man), Wyszed z domu (Gone Out), Spaghetti i miecz (Spaghetti and the Sword), Stara kobieta wysiaduje (The Old Woman Broods), Białe małżeństwo (White Marriage), Odejście Głodomora (Starveling's Departure); some prose collections. *Address:* Ul. Januszewicka 13 m. 14, 53-136, Wrocław, Poland. *Telephone:* 643-38.

ROZHDESTVENSKY, Gennadiy Nikolayevich; Soviet conductor; b. 4 May 1931, Moscow; ed. Moscow State Conservatoire; Asst. Conductor, Bolshoi Theatre 1951, Conductor 1956-60, Prin. Conductor 1965-70; Chief Conductor of U.S.S.R. Radio and TV Symphony Orchestra 1961-74; Chief Conductor Stockholm Philharmonia 1974-77, Moscow Chamber Orchestra 1974-; Principal Conductor BBC Symphony Orchestra 1978-; has been guest conductor for numerous orchestras throughout Europe, America and Asia; Lecturer Moscow Conservatoire; Hon. mem. Swedica Royal Acad. 1975; Merited and People's Artist of the R.S.F.S.R. 1966, Lenin Prizewinner 1970, Order of Red Banner and other decorations. *Address:* BBC Symphony Orchestra, Delaware Road, Maida Vale, London, W9 2LG, England.

ROZHDESTVENSKY, Robert Ivanovich; Soviet author and poet; b. 20 Jan. 1932, Kosikha Village, Altai District. ed. Gorky Institute of Literature, Moscow. Writer and poet 1950-; Order of Red Banner, Order of Lenin and several medals. *Publications include:* poetry: Flags of Spring 1955, To My Contemporary 1962, Radius of Action 1965, Vera's Son 1966, The Dedication 1970, Requiem 1970, In All Earnestness 1970, The Artist Aleksandra Bill 1970, The Heart's Radar 1971, The Return: Verse of Several Years 1972, The Line 1973, In the Twenty Years 1973, Before the Holiday: Verse and Poems 1974; Verse translated into many languages. *Address:* USSR Union of Writers, Ulitsa Vorovskogo 52, Moscow U.S.S.R.

RUARK, Arthur Edward, PH.D.; American physicist; b. 9 Nov. 1899, Washington, D.C.; s. of Oliver M. and Margaret G. Ruark; m. Sarah G. Hazen 1927 (died 1967); four d.; ed. Johns Hopkins Univ.; worked at Bureau of Standards 1921-26; Asst. Prof. Yale Univ. 1926-27; Mellon Inst. of Industrial Research 1927-29; Head of Physics Division, Gulf Research Lab. 1929; Prof. of Physics, Univ. of Pittsburgh 1930-34; Head of Physics Dept. and Kenan Research Prof. Univ. of North Carolina 1934-44: Consultant, Naval Research Lab. 1944-46; Head Research Div., Applied Physics Lab. of Johns Hopkins Univ. 1946-47; Asst. Dir. Inst. for Co-operative Research, Johns Hopkins Univ. 1948-49; Head Navy Research Project, Johns Hopkins Univ. 1949-52; Temerson Prof. of Physics, Univ. of Alabama 1952-56; Chief Controlled Thermonuclear Branch, U.S. Atomic Energy Comm. 1957-60; Asst. Dir. of Research, U.S. Atomic Energy Comm. 1961-65, Senior Assoc. Dir. of Research 1966-69. *Publications:* Atoms, Molecules and Quanta (with Harold C. Urey), Atomic Physics (with mems. of the Pittsburgh Physics Staff) and articles on Atomic Physics. *Address:* 4101 Byeford Court, Kensington, Maryland 20795, U.S.A.

RUBBRA, Edmund, C.B.E., M.A., D.MUS., LL.D.; British composer; b. 23 May 1901, Northampton; s. of Edmund J. Rubbra and Mary J. Bailey; m. 2nd Colette Yardley 1975; two s.; ed. Reading Univ., Royal Coll. of Music; Lecturer in Music, Oxford Univ. 1947-68; Senior Research Fellow, Worcester Coll., Oxford 1968-71, Hon. Fellow 1971-; Hon. Fellow of Guildhall School of Music and Drama, London; Hon. mem. Royal Acad. of Music, London; Hon. Fellow Int. Poetry Soc. 1973; Hon. D.Litt. (Reading Univ.) 1978. Orchestral works include: ten Symphonies, two Overtures and Farnaby Improvisations; Concertos for piano, violin and viola; vocal works include: sets of songs for tenor and baritone (with strings) and Ode for Contralto and Orchestra; motets, madrigals and [redacted] for unaccompanied voices; seven works for chorus and orchestra; chamber music includes: sonatas for violin, 'cello and oboe with piano, four string quartets, piano quintet, two piano trios, and works with recorder; songs with string quartet, harp or piano; preludes for piano, works for solo harp. *Leisure interests:* reading, gardening. *Publications:* Counterpoint 1960, Collected Essays on Gustav Holst 1974. *Address:* Lindens, Bull Lane, Gerrard's Cross, Bucks., England. *Telephone:* Gerrards Cross 84650.

RUBEN, Vitaliy Petrovich; Soviet politician; b. 26 Feb. 1914, Moscow; ed. Yaroslav Agricultural Coll., Higher Party School; worked as agronomist and teacher until 1941; party work 1941-44; worked with Cen. Cttee. CP of Latvia 1944-47; Second Sec. Daugavpils Regional Cttee. CP of Latvia 1947-48; attended CPSU School 1948-51; Cen. Cttee. CP of Latvia, Councils of Agric. and Gosplan of Latvia 1951-61; Dep. Chair. Council of Ministers, Latvian S.S.R. 1961-62, Chair. 1962-70; Chair. Presidium of Supreme Soviet of Latvian S.S.R. 1970-74; Vice-Chair. Presidium of U.S.S.R. Supreme Soviet 1970-74; Vice-Chair. Presidium of U.S.S.R. Supreme Soviet 1970-74; Cand. mem. Cen. Cttee. CPSU 1966-; mem. Cen. Cttee. CPSU 1976-; Deputy to U.S.S.R. Supreme Soviet 1962-; Chair. Soviet of Nationalities, U.S.S.R. Supreme Soviet 1974–; Order of Lenin (three times), Order of the October Revolution, Badge of Honour and other decorations. *Address:* Presidium of the U.S.S.R. Supreme Soviet, The Kremlin, Moscow, U.S.S.R.

RUBEN, Yuriy Yanovich; Soviet politician; b. 15 April 1925; ed. Latvian State Univ. and Higher Party School of CPSU Cen. Cttee; mem. CPSU 1953-; engaged in Komsomol work 1952-55; engaged in party work 1955-60; First Sec. Liepaia City Cttee., CP of Latvia 1960-63, First Sec. Riga City Cttee. 1963-66; Sec. Cen. Cttee., Latvian CP 1966-70; Chair. Council of Ministers of Latvian S.S.R. 1970-; Deputy to U.S.S.R. Supreme Soviet 1970-; Cand. mem. Cen. Cttee. CPSU 1971-; mem. Bureau of Cen. Cttee. of CP of Latvia; Order of Lenin (twice), Order of the October Revolution, Order of the Red Banner and other decorations. *Address:* Council of Ministers of Latvian S.S.R., Riga, U.S.S.R.

RUBINSTEIN, Artur; Polish pianist virtuoso; b. 28 Jan. 1887, Łódź; s. of Ignace and Félice (Heyman) Rubinstein; m. Aniela Mlynarska 1932; two s. two d.; ed. Warsaw and Berlin Acad. Music; first concert in Berlin 1901; with Philadelphia Philharmonic Orchestra 1906; tours in Europe, South America, Australia, China, Japan;

recitals throughout the world; Hon. mem. Accademia de Santa Cecilia, Rome and Brazil, Acad. of Stockholm, etc.; Assoc. mem. Acad. des Beaux Arts (France) 1971-; Hon. Citizen of Philadelphia, Chicago, Columbia; Grand Croix de la Légion d'honneur; Commdr. des Arts et Lettres, Order of Leopold 1st (Belgium), Chilean Merit, Officer of Santiago (Portugal), Polonia Restituta (Poland), Order of Grand Cross of Alfonso el Sabio (Spain), U.S. Medal of Freedom 1976, Commdr. Cross with Star of Order of Merit (Poland) 1978, etc.; Hon. Dr. Mus. (Northwestern, Yale, Brown, Rutgers, Columbia Univs., Hebrew Univ. (Jerusalem), etc.). *Publication:* My Young Years (autobiog.) 1973. *Address:* c/o Wilfrid Van Wyck, Troon, Old Mill Lane, Bray, SL6 2BG, Berks., England; and 22 square de l'avenue Foch, 75116 Paris, France.

RUBOTTOM, Roy Richard, Jr.; American diplomatist, educator and university administrator; b. 13 Feb. 1912 Brownwood, Tex.; s. of Roy Richard Rubottom and Jennie Eleanor Watkins; m. Billy Ruth Young 1938; two s. one d.; ed. Southern Methodist and Texas Univs.; in commerce 1935-37; Asst. Dean, Student Life Tex. Univ. 1937-41; served in U.S. Navy (Commander) 1941-46; Naval liaison officer, Mexico 1943-45; Naval Attaché, Paraguay 1945-46; Appointed Foreign Service Officer 1947; Embassy Sec. and Consul, Bogotá 1947-49; in charge Mexican Affairs, State Dept. 1950-52; Dir. Mid-American Affairs 1952-53; 1st Sec., Madrid Embassy 1953-54; Dir. Operations Mission, Madrid 1954-56; Deputy Asst. Sec. and Acting Asst. Sec., of State for Inter-American Affairs 1956; Asst. Sec. 1957-60; Amb. to Argentina 1960-61; faculty adviser for State Dept., Naval War Coll. 1961-64; Vice-Pres. Southern Methodist Univ., Tex. 1964-71, Prof. of Govt. and Scholar-in-Residence 1975-, Dir. Center of Ibero-American Civilizations 1975-77; Pres. Univ. of the Americas 1971-73; Hon. LL.D. (South-western Coll., Winfield, Kansas) 1968. *Leisure interests:* swimming, travel, reading. *Address:* Southern Methodist University, Dallas, Tex. 75275; 3429 University Blvd., Dallas, Tex 75205, U.S.A. (Home).

RUCINSKI, Joseph; American (b. Polish) economist; b. 13 Aug. 1907, Kiev, Ukraine; s. of Roman and Maria Rucinski: m. Wanda Zofia Princess Lubormirska 1965; ed. Inst. Supérieur de Commerce, Antwerp, and Univ. of Geneva; mem. Money and Credit Dept. of the Polish Ministry of Finance 1932-39; Financial Counsellor of the Polish Embassy, London 1939-42; Economic Adviser to the Polish Foreign Office in London 1942; went to the U.S. 1945; joined staff of the Int. Bank 1946; Asst. Dir. of the Dept. of Operations for Asia and the Middle East 1952 and Dir. 1955; Dir. of the Dept. of Operations for South Asia and the Middle East 1957-61; Vice-Pres. Kaiser Industries Dec. 1961-67; Vice-Pres. Allied Chemical Corpn. 1967-70, Consultant 1971-. *Leisure interests:* music, photography, deep-sea fishing. *Address:* Allied Chemical Corporation, 61 Broadway, New York, N.Y. 10006; Hawthorne Towers, 36 Hawthorne Place, Montclair, N.J. 07042, U.S.A. *Telephone:* 422-7300, Ext. 2273 (Office); 201-746-2764 (Home).

RUCKELSHAUS, William Doyle; American government official; b. 24 July 1934, Indianapolis, Ind.; s. of John K. and Marion (Doyle) Covington Ruckelshaus; m. Jill E. Strickland 1962; one s. four d.; ed. Portsmouth Priory School, R.I. and Princeton and Harvard Univs.; served with U.S. Army 1953-55; admitted to Indiana Bar 1960; joined family firm Ruckelshaus, Bobbit & O'Connor 1960-69; Partner Ruckelshaus, Beveridge, Fairbanks & Diamond (fmrly. Ruckelshaus, Beveridge & Fairbanks); Deputy Attorney-Gen. Ind. 1960-62; Minority Attorney, Ind. State Senate 1965-67; mem. Indiana House of Reps. 1967-69; Asst. Attorney-Gen., U.S. Civil Div. 1969-70; Dir. Environmental Protection Agency 1970-73; Acting Dir. Fed. Bureau of Investigation 1973; Deputy Attorney-Gen. 1973; Sr. Vice-Pres. Weyerhaeuser Co. 1976-; mem. Board of Dirs. Cummins Engine Co., Inc., Peabody-Galion Corpn., Church and Dwight Co. Inc.; mem. several U.S. bar asscns. *Publication:* Reapportionment—A Continuing Problem 1963. *Leisure interests:* tennis, fishing, reading. *Address:* 1015 Evergreen Point Road, Medina, Wash. 98039, U.S.A. *Telephone:* (206) 453-0863.

RUDA, José María, LL.D.; Argentine lawyer and diplomatist; b. 9 Aug. 1924, Buenos Aires; s. of José Maria Ruda and Margarita Comas de Ruda; m. Maria Haydée Arnold 1949; five c.; ed. Univ. de Buenos Aires and New York Univ.; Office of Legal Affairs, UN Secr. 1951-55; Sec. of State, Salta Province, Argentina 1956-57; Counsellor, La Paz 1957-60; mem. Argentine Del. to UN 1959-, Chair. Argentine Del. 1965, Perm. Rep. to UN 1966-70; Assoc. Prof. of Int. Law, Univ. de Buenos Aires 1959-71, Prof. of Int. Law 1971–; Under-Sec. of State for Foreign Affairs and Worship 1970-73; Visiting Prof. Colegio de México 1963; mem. Int. Law Comm. of UN 1964-73; Judge, Int. Court of Justice 1973; mem. ILO Panel of Experts 1978-; Del to numerous int. confs. *Publications include:* The Powers of the General Assembly of the UN in Political and Security Matters 1956, Jurisdiction of the International Court 1959, Relations Between the United Nations and the Organization of American States in Connexion with International Peace and Security 1959 A Study in Politics and Law: The United Nations 1962, The Evolution of International Law, International Instruments 1976. *Address:* International Court of Justice, Peace Palace, The Hague, Netherlands; Callao 1707, Buenos Aires, Argentina.

RUDBERG, Erik Gustav, D.SC.: Swedish physicist; b. 17 Nov. 1902, Stockholm; s. of Dr. Ture Albert Rudberg and Emma Teresia Frederika (née Munck); m. Birgit Holmgren 1930; ed. Stockholm Univ., Göttingen Univ., King's Coll., London Univ.; Asst. Stockholm Univ. 1922-24, Lecturer 1929; Asst. Nobel Inst. 1924-30; Instructor in Physics, M.I.T. 1931-32, Asst. Prof. 1932-36; Dir. of Applied Physics Research Laboratory, Allmänna Svenska Elektriska Aktiebolaget 1936-39; Prof. and Head of Physics Dept., Chalmers Univ. of Tech., Gothenburg 1939-45; Dir. Swedish Inst. of Metal Research 1945-59; Perm. Sec. Royal Swedish Acad. of Sciences 1959-72, Prof. Emer. 1973-; Pres. European Physical Soc. 1970-71; mem. Swedish Eng. Acad., Royal Acad. of Sciences; Hon. mem. Swedish Soc. of Metallurgy, Swedish Soc. of Mountaineers, Soc. française de Métallurgie; Foreign mem. Romanian Acad. of Sciences, Indian Acad. of Sciences; Liljevalch Fellow, Göttingen 1924; Ramsay Fellow, London 1925-27; Rockefeller Fellow, Franklin Inst., Philadelphia 1930-31; Fellow, American Physical Soc. *Publications:* scientific papers on electron emission, electron theory of metals, electron collisions, vapour pressure of metals, metallography, chemical reaction velocities, solid-state physics. *Leisure interests:* sailing, skiing, mountaineering, wildlife studies, carpentry. *Address:* Sjoevretsvaegen 48, S-15024 Roenninge, Sweden.

RUDENKO, Roman Andreyevich; Soviet lawyer; b. 30 July 1907, Ukraine; ed. Moscow Legal Academy; at the Procurator's Office 1929-; Chief Soviet Prosecutor at the Nuremberg Trials 1945-46; Procurator of the Ukraine 1944-53: State Judiciary Counsellor, Procurator-Gen. of the U.S.S.R. 1953-; mem. CPSU 1926-, Cand. mem. CPSU Cen. Cttee. 1956-61, mem. 1961-; Deputy to U.S.S.R. Supreme Soviet 1950-; has attended Confs. of the Int. Assen. of Democratic Lawyers; LL.D. (h.c.) Charles Univ. Prague and Humboldt Univ. Berlin; awarded Order of Lenin (five times), Order of the Red Banner of Labour, Hero of Socialist Labour, etc. *Address:* Office of the Procurator-General of the U.S.S.R., 15A Pushkinskaya Street, Moscow, U.S.S.R.

RUDENKO, Marshal Sergey Ignatiyevich; Soviet air-force officer; b. 20 Oct. 1904, Korob, Chernigov Region, Ukraine; ed. Zhukovsky Air Force Acad.; Commdr. of an air army, taking part in the fighting at Stalingrad, Kursk, Berlin, in Byelorussia; Chief of Staff of Air Force 1949-58, First Deputy C.-in-C. Soviet Air Force 1956-58; Chief of Gagarin Air Force Acad. 1968-73; Insp., Counsellor of Gen. Inspectorate of Minister of Defence 1973-; Marshal of Aviation 1955-; mem. CPSU 1928-; Cand. mem. Cen. Cttee. CPSU 1961-66; Hero of the Soviet Union; awarded Order of Lenin (four times), Gold Star Medal, Suvorov (three times), Red Banner (four times), Kutuzov, also Polish honours. *Address:* Ministry of Defence, 34 Maurice Thorez Embankment, Moscow, U.S.S.R.

RUDHART, Hans Wilhelm, DR. RER. POL.; German business executive; b. 30 Sept. 1902; Vice-Pres. Gutehoffnungshütte Aktienverein and Gutehoffnungshütte Sterkrade AG 1958-68, mem. Board 1969-; Pres. Employers' Feds.; mem. of management of German Industry Inst., Fed. Assen. of German Industry, Trade Assen. of Iron and Steel Industry, etc.; mem. or Pres. of Board of Dirs. Schwäbische Hüttenwerke GmbH, Zahnräderfabrik Augsburg Renk AG, Eisenwerk Nürnberg AG, Vereinigte Aluminiumwerke AG, Bonn Gutehoffnungshütte Schwerte GmbH, UTMAL, India, The Libyan Drilling and Servicing Co. Ltd., Associated Tunnelling Co. Ltd., London; Grosses Bundesverdienstkreuz. *Publications:* Die preussische Staatsbank mit besonderer Berücksichtigung der letzten zwei Jahrzehnte. *Address:* 43 Essen-Bredeney, Am Tann 7, Federal Republic of Germany.

RUDING, H. O. (Onno), DR. ECON.; Netherlands economist, banker and international official; b. 15 Aug. 1939, Breda; s. of Dr. R. Ruding and A. M. Ruding (née Fehmers); m. Renée V. Hekking 1971; one s. one d.; ed. grammar school (Gymnasium) in Breda, Netherlands School of Econs. at Rotterdam; Head of Int. Monetary Affairs Div., Treasury-Gen. of Ministry of Finance 1965-70; Joint Gen. Man. Amsterdam-Rotterdam Bank, N.V., Head of Securities Underwriting, New Issue and Corporate Finance Dept. 1971-76; Exec. Dir. for Cyprus, Israel, Netherlands, Romania and Yugoslavia, IMF Jan. 1977-. *Publication:* Towards an Integrated European Capital Market? 1969. *Leisure interests:* history, golf, chess.

Address: 700 19th Street, N.W., Washington, D.C. 20431; 4995 Glenbrook Road N.W., Washington D.C. 20016, U.S.A. (Home). *Telephone:* 477-6045/6 (Office); (202) 363-6331 (Home).

RUDNEV, Konstantin Nikolayevich; Soviet politician; b. 22 June 1911; ed. Tula Engineering Inst.; electrical fitter 1929-30; Chief Eng. 1935-48; Sr. Exec. Ministry of Defence Equipment 1948-52; Deputy Minister of Armaments 1952-53; Deputy Minister of the Defence Industry 1953-58; Chair. State Cttee. of Defence Equipment 1958-61; Chair. State Cttee. for Co-ordination of Scientific Research Work 1961-65; Deputy Chair. U.S.S.R. Council of Ministers 1961-65; Minister of Instrument Making, Automation and Control Devices Industry 1965-; mem. CPSU 1941-, Cen. Cttee. 1961-; Deputy to U.S.S.R. Supreme Soviet 1962-; Hero of Socialist Labour, Orders of Lenin, "Hammer and Sickle" Gold Medal, etc. *Address:* Ministry of Instrument Making, Automation and Control Devices Industry, Moscow, U.S.S.R.

RUDNICKI, Adolf; Polish writer; b. 19 Feb. 1912, Warsaw; ed. Commercial School, Warsaw; soldier, Polish campaign 1939; mem. Resistance 1942-44, Warsaw insurrection 1944; Co-editor Kuźnica 1945-49; State Prize 1955, 1966, Officer's Cross Order of Polonia Restituta 1956; *Publications:* Szczury (Rats), Żołnierze (Soldiers), Niekochana (The Unloved One), Lato (Summer), Ucieczka z Jasnej Polany (Flight from Yasna Polyana), Zywe i martwe morze (Living and Dead Seas), Pałeczka czyli każdemu to na czym mu mniej zależy (The Baton, or To Each What He Least Cares For), Niebieskie kartki (Blue Pages, 8 vols. of short stories and essays), Krowa (The Cow), Złote okna (Golden Windows), Młode cierpienia (The Young Sufferings), Manfred (drama), 50 opowiadań (50 stories), Wybór opowiadań (selected stories) 1976, Niekochana i inne opowiadania (The Unloved One and other stories) 1976, Noc będzie chłodna, Niebo u purpurze (Night Will Be Chilly, Sky Will Be Purple) 1977. *Address:* Ul Kanonia 16/18m. 4, 00-278 Warsaw, Poland. *Telephone:* 31-3609.

RUDOLF, Tadeusz, M.ECON.; Polish politician; b. 22 Jan. 1926, Bochnia; ed. High School of Social Sciences, Party School, Polish United Workers' Party; worked in Cable Factory, Cracow 1944; active mem. Fighting Youth Union and Polish Youth Union; First Sec. PUWP Town Cttee., Zakopane 1948-50; Chair. Comm. for Youth Questions, PUWP Town Cttee., Warsaw 1957; Sec. Cen. Cttee., Socialist Youth Union; Deputy Chief Organizational Dept., Cen. Cttee. of PUWP; 1st Sec. Voivodship Cttee., Kielce 1968-72; Deputy to Seym 1969-76; Deputy mem. Cen. Cttee., PUWP 1968-71, mem. 1971-; Vice-Chair. Cen. Council of Trade Unions 1972-74; Chair. Seym Comm. of Econ. Plan, Budget and Finance 1973-74; Minister of Labour, Wages and Social Affairs Nov. 1974-; Order of Banner of Labour 1st Class and others. *Address:* Ministerstwo Pracy, Płac i Spraw Socjalnych, ul. Nowogrodzka 1/3, 00-513 Warsaw, Poland. *Telephone:* 28-77-34 (Office).

RUDOLPH, Paul Marvin, M.ARCH.; American architect; b. 23 Oct. 1918; ed. Alabama Polytechnic Inst., and Harvard Univ.; Fellow in Architecture, Harvard Univ. 1941-42; Officer in Charge, Ship Construction, U.S. Naval Reserve, Brooklyn Navy Yard 1943-46; Partner, architectural firm of Twitchell & Rudolph, Sarasota (Florida) 1947-51; architectural practice Sarasota, Cambridge, Newhaven 1952-65; Boston, N.Y. 1965-; Chair. Dept. of Architecture, Yale Univ. 1958-65; numerous honours and awards including Best House of the Year Award, American Inst. of Architects 1949, Outstanding Young Architects Award, São Paulo Int. Competition 1954, House chosen by Architectural Record as one of fifty most significant buildings completed since 1900 1956, Arnold Brunner Prize in Architecture, American Acad. of Arts and Letters 1958, Boston Arts Festival Award for Commercial Building; Award of Merit A.I.A. Honors Award 1962, 1964, First Honor Award A.I.A. Honors Award 1964, Architectural Record Award of Excellence for House Design 1963. *Important projects include:* Good Design Exhibition (Chicago Merchandise Mart and New York Museum of Modern Art) 1951, U.S. Embassy, Amman, Jordan 1954, Art, Music and Drama Building, Wellesly Coll., Mass., Junior-Senior High School, Sarasota, Blue Cross-Blue Shield Inc. Headquarters Building, Boston, Greeley Memorial Laboratory, Yale Forestry School 1957, Arts and Architecture Building, Yale Univ., Church Street Redevelopment Project, New Haven, Conn., Tuskegee Inst., Montgomery, Ala. 1958, work at Yale 1960, Auburn 1961, and Endo Laboratories, Garden City, N.Y., Parking Garage, New Haven, Conn., I.B.M. Components Div. Facilities, East Fishkill, N.Y., Elderly Housing, New Haven, Creative Arts Center for Colgate Univ., N.Y., New Town of Stafford Harbor, Virginia 1967, Orange County Govt. Center, Goshen, N.Y. 1967, New Haven Govt. Center 1968. *Address:* 54 West 57th Street, New York, N.Y., U.S.A.

RUDOWSKI, Witold Janusz; Polish professor of surgery; b. 17 July 1918, Piotrków Trybunalski; s. of Maksymilian Rudowski, judge of Supreme Court of Poland and Stefania Rudowska; m. Irena Rutkowska 1940; two s. one d.; ed. Clandestine Univ., Warsaw; Assoc. Prof. of Surgery, Warsaw Univ. 1954-61, Prof. Extraordinary 1961-70, Prof. 1970-; Consultant Surgeon and Senior Research Worker, Madame M. Curie Cancer Insts. in Warsaw 1948-64; Dir. and Head, Dept. of Surgery, Inst. of Haematology and Blood Transfusion, Warsaw 1964-; Chair. Scientific Council to Minister of Health and Social Welfare 1970-75; Expert WHO 1975-; Vice-Pres. Int. Fed. of Surgical Colls., Pres. 1975-; Pres. Int. Fed. of Surgical Asscns. 1978-; Deputy Chair. Polish Haematological Soc.; Sec.-Gen. Polish Surgeons' Soc.; Corresp. mem. Polish Acad. of Sciences 1973–, N. Pacific Surgical Assn. 1974, Italian Soc. of Surgical Investigations 1975; Hon. mem. W. African Coll. of Surgeons 1975, Czechoslovakian Soc. of Physicians, Surgical Section; Hon. Fellow, American Coll. of Surgeons 1971, Royal Coll. of Surgeons of Edinburgh 1972, Royal Coll. of Surgeons of England 1973, Royal Coll. of Physicians and Surgeons of Canada 1974, Coll. of Dutch Surgeons, Swedish Surgical Soc., Royal Coll. of Surgeons of Ireland 1978, Royal Australasian Coll. of Surgeons 1979; Dr. h.c. (Poznań Medical Acad.) 1975; Silver Cross of Virtuti Militari 1944, Gold Cross of Merit 1956, Knight's Cross Order of Polonia Restituta 1967, Medal for Warsaw 1970, State Award in Science 1972, 1978, State Prize (2nd class, collective) 1978. *Publications:* Burn—Therapy and Research 1976, Disorders of Hemostasis in Surgery 1977; and 350 papers in Polish and other languages on cancer, clinical pathophysiology, burns and blood transfusion. *Leisure interests:* literature, music. *Address:* Aleja Armii Ludowej 17-1, 00-632 Warsaw, Poland. *Telephone:* 49-85-06 (Office); 25-44-39 (Home).

RUDZIŃSKI, Witold; Polish musicologist and composer; b. 14 March 1913, Siebież; s. of Henryk and Maria Rudziński; m. Nina Rewieńska 1958; one s. two d.; ed. Wilno and Paris; Prof. Wilno Conservatoire 1939-42, Łódź Conservatoire 1945-47; Dir. Dept. of Music, Ministry of Culture 1947-48; Editor Muzyka 1950-56; Prof. State Superior School of Music, Warsaw 1957-; Chief Dept. of Theory of Music; Officer and Commdr. Cross of Polonia Restituta, Minister of Culture and Arts Prize, 1st Class 1976, etc.; works include Piano Concerto, two Symphonies, Symphonic Suite, two String Quartets, two Sonatas for piano and violin, cantata, flute quartet, song cycle, chamber works for piano, flute, 'cello, woodwind and percussion instruments; Operas: Janko Muzykant, Komendant Paryża (Commander of Paris), Odprawa posłów greckich (Dismissal of the Greek Envoys), Sulamita (Sulamith), Chłopi (The Peasants); Music poem Dach świata (Roof of the World) for recitative and orchestra; Gaude Mater Polonia for solo voice, choir, recitative and orchestra; Lipce (oratorio). *Publications:* Musical encyclopaedia. monographs on Moniuszko and Bartok, studies in musical rhythm. *Leisure interests:* history, linguistics. *Address:* Państwowa Wyższa Szkoła Muzyczna, ul. Okólnik 2, Warsaw; ul. Narbutta 50 m.6, 02.541 Warsaw, Poland. *Telephone:* 49 34 77.

RUETE, Hans-Helmuth, DR. JUR.; German diplomatist; b. 21 Dec. 1914, Petersburg; s. of Dr. med. Alfred E. and Margarita (née Bohnstedt) Ruete; m. Ruth Arfsten 1948; one s. two d.; ed. Univs. of Marburg, Kiel, Lausanne and Tokyo; Asst. Univ. of Marburg 1946-49; Judge 1949; Ministry of Justice 1950; joined diplomatic service 1952; Second Sec., Tokyo 1952-56; Foreign Office, Bonn 1956-60; Prof. Univ. of Marburg 1956-60; Harvard Univ. Center for Int. Affairs 1960-61; Consul-Gen., Calcutta 1961-64; Deputy Head of Political Dept., Ministry of Foreign Affairs 1964, Head of Political Dept. II 1966-70; Amb. to France 1970-72, to Poland 1972-77, to U.K. 1977-. *Publications:* Der Einfluss des abendländischen Rechts auf die Rechtsgestaltung in China und Japan 1940. *Leisure interests:* literature, music (plays piano and 'cello), theatre. *Address:* Embassy of the Federal Republic of Germany, 23 Belgrave Square, London, SW1X 8PZ, England. *Telephone:* 01-235 5033.

RUF, Sep; German architect; b. 9 March 1908; ed. Technische Hochschule, Munich; freelance architect 1931-; Prof., Acad. of Fine Arts, Nuremberg 1947-53, Acad. of Fine Arts, Munich 1953-72; in partnership with Goller, Mayer, Oberberger and Thomeier 1971-; mem. Akad. der Künste, Berlin Cultural Prize of City of Nuremberg. *Major works include:* branches of Bayerische Staatsbank, Nuremberg and Erlangen; new buildings for Acad. of Fine Arts, Nuremberg; Maxburg Admin. Buildings (with Prof. Theo Pabst), Munich; German Pavilion, Brussels World Fair (with Prof. Egon Eiermann); new building for Church of St. John of Capistran, Munich; Max-Planck-Institut für Physik und Astrophysik (Heisenberg Inst.), Munich; renovation and extensions of the Germanisches Nationalmuseum, Nuremberg; admin. bldgs. of the Deutsche Forschungsgemeinschaft, Bad Godesberg and Berliner Handelsgesellschaft,

Frankfurt/Main; reception rooms for residence of Federal Chancellor, Bonn; extensions to the Bayerische Staatsbibliothek, Munich; Seminarkapelle, Fulda; München Hilton Hotel; Esso Motor Hotel München; IBM Rechenzentrale u. Verwaltungsgebäude München; Technisches Zentrum und Verwaltungsbebäude Bayerische Vereinsbank München, Geschäfthaus, Goetheplatz, Munich; offices for Würth Schraubenfabrik, Künzelsau. *Address:* 8022 Grünwald/Obb., Hubertusstrasse 66, Federal Republic of Germany. *Telephone:* 6-49-21-66.

RUFFINI, Attilio; Italian politician; b. 31 Dec. 1924, Mantua; ed. Catholic Univ. of Milan; joined Democrazia Cristiana (DC) 1945, later Head of Political Secretariat, then Deputy Sec. of Party; mem. Chamber of Deputies for Palermo 1963-; Under-Sec. in Ministry of Educ., later at Treasury; Minister of Transport 1976-77, of Defence Sept. 1977-. *Address:* Ministry of Defence, Rome, Italy.

RUGAMBWA, H.E. Cardinal Laurian; Tanzanian ecclesiastic; b. 12 July 1912; s. of D. Rushubirwa and A. Mukaboshezi; ed. Rubya Seminary, Katigondo Seminary, De Propaganda Fide Univ., Rome; ordained Priest 1943; missionary work in East Africa; studied canon law in Rome; Bishop of Rutabo 1952; created Cardinal by Pope John XXIII 1960; transferred to Bukoba Diocese 1960, to Dar es Salaam Archdiocese 1969; Hon. LL.D. (Notre Dame, St. Joseph's Coll., Philadelphia, Rosary Hill Coll.), Hon. H.L.D. (Coll. of New Rochelle), Hon. Dr. (Catholic Univ. of America, Georgetown Univ., Washington); mem. Comm. for Revision of Canon Law; mem. Knights of Columbus, Sacred Congregation for the Causes of Saints. *Address:* St. Joseph, P.O. Box 167, Dar es Salaam, Tanzania. *Telephone:* Dar es Salaam 22031 (Office); 68734 (Home).

RUGGIERO, Renato; Italian diplomatist; b. 9 April 1930, Naples; ed. Univ. of Naples; entered Diplomatic Service 1955; First Vice-Consul, São Paulo 1956; Second Sec., Italian Embassy, Moscow 1959, First Sec., Washington, D.C. 1962; with Ministry of Foreign Affairs 1964-65; Counsellor, Italian Embassy, Belgrade 1966; Chef de Cabinet, Ministry of Foreign Affairs 1968; First Counsellor for Social Affairs, Perm. Mission to European Communities 1969; Chef de Cabinet, then Principal Counsellor to Pres. Comm. of European Communities 1970-73; Dir.-Gen. of Regional Policy 1973-76; Dir.-Gen. for Information 1977-78; Knight, Order of Merit. *Address:* c/o Directorate-General for Information, Commission of the European Communities, 200 rue de la Loi, 1049 Brussels, Belgium.

RUKEYSER, Muriel; American writer; b. 15 Dec. 1913, New York, N.Y.; one s.; ed. Vassar Coll., Columbia Univ.; taught at Sarah Lawrence Coll., Bronxville, N.Y., for many years, also at San Francisco State Univ., New York Univ., City Coll., New York; worked with Americans for Amnesty, Nat. Council for Universal and Unconditional Amnesty (NCUUA), U.S. Cttee. for Justice in Latin America; Pres. PEN American Center 1975-76, Vice-Pres. 1976-; mem. Board, Teachers and Writers Collaborative; mem. Nat. Acad. of Arts and Letters, Nat. Inst. of Arts and Letters, Soc. of American Historians, History of Science Soc.; Fellow, American Council of Learned Socs.; Colleague, Cathedral of St. John the Divine; poem in new Reform Jewish Prayerbook; Hon. D.Litt. (Rutgers Univ., New Brunswick, N.J.), Translation Award, Swedish Acad.; Guggenheim Award; Shelley Award, Poetry Soc. 1977; Copernicus Award, Acad. of American Poets 1977. *Publications:* poetry: Theory of Flight 1935, U.S. 1 1938, A Turning Wind 1939, Beast in View 1944, The Green Wave 1948, Orpheus 1949, Elegies 1950, Selected Poems 1951, Body of Waking 1958, Waterlily Fire 1962, The Speed of Darkness 1968, Breaking Open 1971, The Gates 1976, Collected Poems 1979; prose and poetry: One Life 1957; prose: Willard Gibbs 1942, The Life of Poetry 1949, The Traces of Thomas Hariot 1971; translations: Sun Stone 1963, Selected Poems of Octavio Paz 1963, Selected Poems of Gunnar Ekelöf (with Leif Sjöberg) 1967. *Address:* 463 West Street, New York, N.Y. 10014, U.S.A. *Telephone:* (212) 691-4870.

RUKMINI, Devi; Indian dancer and arts patron; b. 1904, Madurai; d. of Nilakanta and Seshammal Sastri; m. Dr. G. S. Arundale 1920 (deceased); started dancing under Anna Pavlova; extensive tours throughout India and Europe with dance recitals and lectures; lecture visits to U.S.A.; also lectures and writes on Theosophy, Religion, Art, Culture, Educ., etc.; Dir. Arundale Training Centre for Teachers, Int. Soc. for the Prevention of Cruelty to Animals, London for India, Dr. V. Swaminatha Iyer Tamil Library; Head Int. Theosophical Centre, Huizen, Holland; Pres. The Bharata Samaj, Indian Vegetarian Congress, Kalakshetra (Int. Art Centre), Besant Centenary Trust, Young Men's Indian Assn.; Chair. Animal Welfare Board and mem. of various int. animal welfare orgs.; fmr. mem. of Rajya Sabha (Parl.); decorations: Padma Bhushan 1956, Sangit Natak Akademi Award 1957, Queen Victoria Silver Medal of R.S.P.C.A. 1958, Prani Mitra (Animal Welfare Board) 1968; Hon. D.H. (Wayne Univ.) 1960; Hon. doctorate (Rabindra Bharathi Univ.) 1971; Desikothama (Viswabharati Univ.) 1972; Fellowship, Sangit Natak Akademi 1968. *Productions:* The Light of Asia, Incidents from the Life of Bishma, Karaikal Ammayar (Tamil), Kutrala Kuravanji (temple drama), Kumara Sambhavm, Sita Swayamwaram, Sri Rama Vanagamanam Paduka Pattabhishekham, Sabari Moksham, Choodamani Pradhanam, Maha Pattabhishekkam, Gita Govindam, Usha Parinayam, Andal Charitram, Kannapar Kuravanji, Rukmini Kalajanam, Shyama, Krishnamari Kuravanji, Dhruva Charithram. *Publications:* Yoga: Art or Science, Message of Beauty to Civilisation, Women as Artists, Dance and Music, The Creative Spirit, Art and Education. *Address:* Animal Welfare Board of India, Gandhinagar, Madras-20; Kalakshetra, Madras-41, India. *Telephone:* 74307 (Office); 74836 (Home).

RUMOR, Mariano; Italian politician; b. 16 June 1915, Vicenza (Venezia); mem. of Parl. 1948-; Deputy Sec. Christian Democrat Party 1954-64, Sec.-Gen. 1964-65, now Political Sec.; fmr. Under-Sec. for Agriculture, fmr. Under-Sec. to the Presidency; Minister of Agriculture 1959-63, of Interior 1963; Pres. European Union of Christian Democrats 1965-; Prime Minister of Italy 1968-69, 1969-70, March-July 1970, 1973-74; Minister of Interior 1972-73, of Foreign Affairs 1974-76. *Address:* c/o Ministry of Foreign Affairs, Piazzale della Farnesina, Rome, Italy.

RUMSFELD, Donald H.; American fmr. government official; b. 9 July 1932, Chicago; s. of George and Jeannette Rumsfeld; m. Joyce Pierson 1954; one s. two d.; ed. Princeton Univ.; mem. 88th-91st Congresses; Republican; Dir. Office of Econ. Opportunity 1969-70; Dir. Cost of Living Council, Counsellor to Pres. 1971-73; Amb. to NATO 1973-74; Asst. to Pres. Ford 1974-75; Sec. of Defense 1975-77; mem. Cabinet 1969-72, 1974-77, mem. Board of Dirs. Sears Roebuck and Co., CIE Geomines S.A., Rand-Corpn., of Govs. Atlantic Inst. for Int. Affairs; 54 hon. degrees. *Leisure interests:* sports, history and reading. *Address:* G.D. Searle and Co., Box 1045, Skokie, Ill. 60076, U.S.A.

RUMYANTSEV, Aleksey Matveyevich; Soviet journalist and politician; b. 16 Feb. 1905, Mintsovo, Galich District, Kostroma Region; ed. Kharkov Economics Inst. Commissariat of Agriculture, later Justice, Ukraine 1926-30; Dir. Inst. of Econs., U.S.S.R. Acad of Sciences, Head Social Science Dept., Ukrainian Acad. of Sciences 1930-43; mem. CPSU 1940-; party work, Kharkov Regional Cttee., Communist Party of Ukraine 1943-52; on staff of Central Cttee. of CPSU 1952-55; Editor-in-Chief Kommunist 1955-58, Problemy Mira i Sotsialisma (Problems of Peace and Socialism) 1958-64, Pravda Nov. 1964-65; Sec. Econ. Branch of the U.S.S.R. Acad. of Sciences 1965-67; Vice-Pres. U.S.S.R. Acad. of Sciences 1967-71; Dir. Inst. of Concrete Investigations, Acad. of Sciences 1968-71; mem. Presidium U.S.S.R. Acad. of Sciences 1971-; mem. Cen. Cttee. of CPSU 1952-59, 1961-76; Corresp. mem. U.S.S.R. Acad. of Sciences 1960-66, mem. 1966-, Vice-Pres. 1966; Corresp. mem. Acad. Sciences of G.D.R.; Order of Lenin (twice), Order of October Revolution and others. *Publications:* (in Russian) Origin of Private Property 1947, On the Subject of Political Economy 1960, On the Categories and Laws of the Political Economy of the Formation of Communism 1966, The Leninist Pattern and the Development of Political Economy 1967, Problems of the Contemporary Science of Society 1969, Sources in the Evolution of the Ideas of Mao Tse-Tung 1972. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

RUNCIMAN, The Hon. Sir Steven (James Cochran Stevenson), Kt., M.A., F.B.S.; British historian; b. 7 July 1903, Northumberland; s. of 1st Viscount Runciman and Hilda Stevenson; ed. Eton Coll., and Trinity Coll., Cambridge; Fellow Trinity Coll., Cambridge 1927-38; Lecturer Cambridge Univ. 1931-38; Press Attaché, British Legation, Sofia 1940-41; Prof. of Byzantine Studies, Istanbul Univ. 1942-45; Rep. of British Council, Greece 1945-47; Chair. Anglo-Hellenic League 1951-67; Trustee, British Museum 1960-67; Fellow British Acad. 1957; Hon. Fellow Trinity Coll., Cambridge; Foreign mem. American Philosophical Soc. 1965; Kt. Commdr. Order of the Phoenix (Greece); Hon. Litt.D. (Cambridge, Chicago, Durham, London, Oxford, St. Andrews and Birmingham); Hon. LL.D. (Glasgow); Hon. D. Phil. (Salonika); Hon. D.D. (Wabash, U.S.A.); Hon. D. Litt. Hum. (Ball State, U.S.A.); Silver PEN award 1969; Apptd. by Oecumenical Patriarch, Grand Orator of the Great Church 1970. *Publications:* The Emperor Romanus Lecapenus 1929, The First Bulgarian Empire 1930, Byzantine Civilisation 1933, The Medieval Manichee 1947, History of the Crusades (3 vols.) 1951-54, The Eastern Schism 1955, The Sicilian Vespers 1958, The White Rajahs 1960, The Fall of Constantinople 1453 1965, The Great Church in Captivity 1968, The Last Byzantine

Renaissance 1970, The Orthodox Churches and the Secular State 1972, Byzantine Style and Civilization 1975, The Byzantine Theocracy 1977. *Address:* Elshieshields, Lockerbie, Dumfriesshire, Scotland. *Telephone:* Lochmaben 280.

RUNCIMAN OF DOXFORD, 2nd Viscount, cr. 1937; **Walter Leslie Runciman,** Bt., A.F.C., O.B.E., M.A.; British shipowner and industrialist; b. 26 Aug. 1900, Newcastle upon Tyne; s. of 1st Viscount Runciman of Doxford, P.C.; m. Katherine Schuyler Garrison 1932; one s.; ed. Eton and Trinity Coll., Cambridge; Dir. Walter Runciman & Co. Ltd.; Pres. Royal Inst. of Naval Architects 1951-61; Chair. North of England Shipowners' Assn. 1931-32; Chair. Council, Armstrong Coll., Durham Univ. 1935-37; Dir.-Gen. British Overseas Airways Corpn. 1940-43; Air Attaché, Teheran 1943-46; Pres. Chamber of Shipping of the U.K. 1952, Chair. Gen. Council of British Shipping 1952; Chair. Trustees, Nat. Maritime Museum 1963-73; Hon. D.C.L. (Durham). *Leisure interests:* sailing, shooting. *Address:* 46 Abbey Lodge, Park Road, London, N.W.8, England.

RUNCORN, Stanley Keith, M.A., SC.D., PH.D., F.R.S.; British physicist; b. 19 Nov. 1922, Southport, Lancs.; s. of W. H. Runcorn and Lily Idena Roberts; unmarried; ed. George V Grammar School, Southport and Gonville and Caius Coll., Cambridge; Experimental Officer, Radar Research and Devt. Establishment, Malvern 1943-46; Asst. Lecturer, Univ. of Manchester 1946-48, Lecturer 1948-49; Asst. Dir. of Research in Geophysics, Cambridge Univ. 1950-55; Fellow, Gonville and Caius Coll., Cambridge; Prof. of Physics and Head of School of Physics, Univ. of Newcastle upon Tyne; recipient lunar samples from Apollo missions; Rutherford Memorial Lecturer, Kenya, Tanzania and Uganda 1970; Du Toit Memorial Lecture (South Africa) 1972; Hon. mem. European Geophysical Soc. 1977; Hon. D.Sc. Utrecht 1969 and Ghent Univs. 1971; Vetlesen Prize, Columbia Univ. 1971; Napier Shaw Prize, Royal Meteorological Soc. 1959, Charles Chree Medal and Prize, Inst. of Physics 1969. *Publications:* Editor of Continental Drift 1962, Methods & Techniques in Geophysics (2 vols.) 1966, Mantles of the Earth and Terrestrial Planets 1968, The Application of Modern Physics to the Earth & Planetary Interiors 1969, Palaeogeophysics 1970; Co-Editor of Physics and Chemistry of the Earth (Vols. 1-7) 1956-66, Methods in Palaeomagnetism 1967, Magnetism and the Cosmos 1967, Palaeogeophysics 1970, The Moon 1971; Author of approximately 140 scientific papers. *Address:* School of Physics, University of Newcastle upon Tyne, Newcastle upon Tyne, NE1 7RU; 16 Moorside Court, Fenham, Newcastle upon Tyne, England (Home). *Telephone:* Newcastle 28511 (Office).

RUPERT, Anthony Edward, M.SC., F.I.A.M.; South African business executive; b. 4 Oct. 1916, Graaff Reinet; s. of John P. Rupert and Hester A. van Eeden; m. H. Goote 1941; two s. one d.; ed. Volks High School, Graaff Reinet, and Univs. of Pretoria and Stellenbosch; Lecturer in Chemistry, Pretoria Univ. 1939-41; Founder and Chair. Rembrandt Group of Companies (tobacco) 1948-; Chair. Technical and Industrial Investments Ltd. 1950-; Chancellor, Univ. of Port Elizabeth; Pres. S.A. Nature Foundation; Chair. Historical Homes of South Africa Ltd.; Dir. S.A. Reserve Bank; Vice-Chair. Urban Foundation; mem. Rockefeller Univ. Council; Fellow of the Int. Acad. of Management; Hon. Fellow, Coll. of Medicine of South Africa; mem. South African Chemical Inst., Exec. Council World Wildlife Fund, South African Inst. of Management, South African Acad. for Arts and Science; Hon.Prof. Univ. of Pretoria 1964-; Hon. Prof. in Business Admin. at Univs of Pretoria and Stellenbosch; Hon. mem. Lesotho Medical Assn., Hon. D.Sc. (Pretoria), Hon. D.Comm. (Stellenbosch). *Publications:* Progress through Partnership, Leaders on Leadership, Inflation—How to Curb Public Enemy Number One. *Leisure interests:* research, art. *Address:* Alexander Street, Stellenbosch (Office); 13 Thibault Street, Mostertsdrift, Stellenbosch, South Africa (Home). *Telephone:* Stellenbosch 2331 (Office).

RUSAKOV, Konstantin Viktorovich; Soviet politician; b. 1909; ed. Leningrad Polytechnical Inst.; Member CPSU 1943-; Official of the People's Commissariat, then Ministry of Fish Industry 1939-50, Minister of Fish Industry 1950-52, dismissed for 'bureaucratic inefficiency'; Counsellor at Soviet Embassy Warsaw 1958-60, worked in CC, CPSU 1960-62; Soviet Amb. to Mongolia 1962-65; First Deputy Head of CC Dept. for Relations with Ruling Communist and Workers' Parties 1965-68, Head 1968-72, 77-; mem. of CC, CPSU 1971-; Asst. to Mr. Brezhnev in European affairs 1972-77; Sec. of CC, CPSU May 1977-; various decorations. *Address:* Central Committee of the CPSU, Staraya Ploshchad 4, Moscow, U.S.S.R.

RUSH, Kenneth, A.B., J.D.; American lawyer, diplomatist and businessman; b. 17 Jan. 1910, Walla Walla, Wash.; s. of David C. and Emma K. Kidwell Rush; m. Jane Gilbert Smith 1937; three s. one d.; ed. Univ. of Tennessee, and Yale Univ. Law School; Assoc. Chadbourne, Stanchfield & Levy (now Chadbourne, Parke, Whiteside & Wolff) 1932-36; joined Union Carbide Corpn. April-Sept. 1936 and Aug. 1937-July 1969, Vice-Pres. 1949-61, Exec. Vice-Pres. 1961-66, Pres. 1966-69, mem. Exec. Cttee. 1966-69; Dir. Union Carbide Corpn. 1958-69; Asst. Prof. of Law, Duke Univ. Law School 1936-37; Dir. U.S. Council Int. Chamber of Commerce 1955-69, American Sugar Co. (now Amstar Corpn.) 1962-69, Foreign Policy Assn. 1964-69; Dir. and [redacted] Exec. Cttee., Manufacturing Chemists Assn. 1965-67, Chair. 1966-67; Dir. Talcott Nat. Corpn. 1961-67, Bankers Trust Co. 1966-69, Bankers Trust New York Corpn. 1966-69; Trustee, Inst. of Int. Educ. 1968-69; Gov. The Pinnacle Club 1966-69; Sec.-Treas. and Trustee, Grand Cen. Art Galleries Inc. 1951-69; mem. Devt. Council, Univ. of Tennessee, Council on Foreign Relations, Industries Advisory Cttee. of the Advertising Council Inc. 1966-69, Public Advisory Cttee. on U.S. Trade Policy of L. B. Johnson 1968-69, U.S. Dept. of Commerce Advisory Cttee. on Foreign Direct Investment Program 1969, Pilgrims of the United States; Amb. to Fed. Repub. of Germany 1969-72; Negotiator of Quadripartite Agreement on Berlin 1971; Deputy Sec. of Defense 1972-73; Deputy Sec. of State 1973-74; Acting Sec. State Sept. 1973; Counsellor to the Pres. for Econ. Policy 1974; mem. Nat. Security Council; Chair. Council on Int. Econ. Policy, the President's Cttee. on East-West Trade Policy, President's Food Cttee., President's Cttee. on Energy, Council for Wages and Price Stability 1974; Chair. Joint Presidential-Congressional Steering Cttee, for Conf. on Inflation Sept. 1974; Amb. to France 1974-77; Gov. American Red Cross 1972-74; Chair. Board of Foreign Service 1973-74; Trustee, The Taft School 1957-62; Dir. El Paso Co. 1977-, Chair. The Atlantic Council 1977-, Alliance to Save Energy 1977-; Hon. LL.D. (Tusculum Coll.) 1961; Grand Cross, Order of Merit, Germany 1972; Dept. of Defense Medal for Distinguished Public Service 1973, Gold Medal, French Senate 1977. *Leisure interest:* golf. *Address:* 3147 O Street, Washington, D.C., N.W. 20007, U.S.A. *Telephone:* (202) 333-8215.

RUSHTON, William Albert Hugh, F.R.S., M.R.C.S. (LOND.), SC.D., PH.D.; British physiologist; b. 8 Dec. 1901, London; s. of William Rushton and Alice née Amsler; m. Marjorie Glasson Kendrick 1930; two s. two d.; ed. Gresham's School, Holt, Emmanuel Coll., Cambridge, and Univ. Coll. Hospital, London; Stokes Student, Pembroke Coll., Cambridge 1927-29; Johnson Foundation Fellow, Univ. of Pennsylvania 1929-31; Research Fellow, Emmanuel Coll., Cambridge 1930-32, 1935-37, Lecturer in Physiology, Univ. of Cambridge 1935-53, Dir. of Medical Studies, Trinity Coll., Cambridge 1936-66, Fellow of Trinity 1938-; Reader in Physiology, Univ. of Cambridge 1953-56, Prof. of Visual Physiology 1966-68, Asst. in Physiological Research 1976-, Prof. Emer. 1977-; Distinguished Research Prof. Florida State Univ. 1968-76; Visiting Resident Prof. Univ. of Sydney and Australian Nat. Univ. Canberra 1973-74; Pres. Soc. Psychical Research 1969-71; Foreign Hon. mem. American Acad. of Arts and Sciences 1963, Swedish Royal Soc. 1969; awarded Prentice Medal of American Acad. of Optometry 1963, Newton Medal of the Colour Group 1965, Feldberg Prize 1967, Royal Medal of Royal Soc. for Biological Sciences 1970, American Optometric Assn. Journalism Award 1970, Proctor Medal of American Assn. for Research in Ophthalmology 1971, Silliman Lecturer, Yale Univ. 1966, Waynflete Lecturer, Oxford 1968; Fogarty Scholar (American Nat. Inst. of Health) 1972-73; Hon. D.Sc. (Case Western Reserve Univ.) 1969. *Publications include:* 35 papers in Journal of Physiology on nerve excitation and conduction 1927-51, 140 in Journal of Physiology and Vision Res on visual pigments and mechanism of vision 1951-. *Leisure interest:* music (viola and bassoon). *Address:* Trinity College, Cambridge, England. *Telephone:* Cambridge 58201.

RUSINEK, Michał; Polish writer; b. 29 Sept. 1904, Cracow; s. of Piotr and Maria Rusinek; m. Josephine Rusinek 1932; two d.; ed. Cracow Univ.; Dir. Acad. of Letters, Warsaw 1934-39; prisoner at Mauthausen concentration camp during the war; Head of Dept. Ministry of Culture and Art 1946-48; Sec.-Gen. of Polish PEN Club 1946-; Vice-Pres. Polish Writers Union, Warsaw 1956-; Vice-Pres. Union of Polish Authors and Composers; Hon. Chair. Int. Writers' Fund, London PEN Club; Vice-Pres. Centre Société Européenne de Culture (SEC); Man. Dir. Authors Agency; Editor-in-Chief Polish Literature—Littérature Polonaise; Literary Prize of Cracow 1934; Literary Pietrzak Prize 1976; Gold Cross of Merit 1947; Chevalier's Cross of Polonia Restituta 1956, Commdr.'s Cross 1959; Order of Banner of Labour, 1st Class 1970, etc. *Publications:* novels: Burza nad brukiem, Człowiek ▪ bramy, Ziemia miodem płynąca, Pluton z Dzikiej Łaki, Z barykady w dolinę głodu, Wiosna admirała,

Muszkieter z Itamariki, Królestwo psychy, Niebieskie ptaki, Zielone złoto, Kolorowe podróże, Prawo jesieni, Igraszki Nieba, Malowane życie, Opowieści niezmyślone, Ziemia Kopernika, Dżika plaza, Opowieści niezmyślone dawne i nowe 1976; plays: Kobieta we mgle, Pawilon pod sosnami, Jedna ojczyzna, Dwie Ewy; screenplay for Pierwszy start. *Leisure interests:* chess, gardening (roses). *Address:* Ul. Odolańska 30, 02-562 Warsaw, Poland. *Telephone:* 45-03-21.

RUSK, Dean, M.A.; American fmr. Secretary of State; b. 9 Feb. 1909; ed. Davidson Coll., N.C., St. John's Coll., Oxford, and Univ. of Calif. Law School; Assoc. Prof. of Govt., Mills Coll. Calif. 1934-38, Dean of Faculty 1938-40, mil. service 1940-46; Asst. Chief Div. of Int. Security Affairs, U.S. Dept. of State 1946; Special Asst. to Sec. of War 1946-47; Dir. of Office of UN Affairs 1947-49, Asst. Sec. of State 1949, Deputy Under-Sec. of State 1949-50, Asst. Sec. of State for Far Eastern Affairs 1950-52; Pres. The Rockefeller Foundation 1952-61; Sec. of State 1961-69; Prof. of Int. Law, Univ. of Georgia 1970-; Pres. Gen. Educ. Board 1952-61; mem. Assen. of American Rhodes Scholars, American Soc. of Int. Law, Council on Foreign Relations; awards include Legion of Merit with Oak Leaf Cluster and Cecil Peace Prize 1933; Hon. K.B.E. 1976; Hon. LL.D. (18 univs. and colls.); Hon. L.H.D. (3 univs. and colls.); Hon. D.C.L. Oxon, 1962, Hon. Fellow (St. John's Coll., Oxford); Democrat. *Address:* University of Georgia, Athens, Georgia, U.S.A.

RUSSELL, Sir Archibald Edward, Kt., C.B.E., D.SC., F.R.AE.S., F.A.I.A.A., F.R.S.; British aircraft engineer and executive (retd.); b. 30 May 1904, Wotton-under-Edge, Glos.; ed. Bristol Univ.; joined The Bristol Aeroplane Co. Ltd. 1926, Chief Engineer of Aircraft Div. 1943, elected to the Board 1951, assumed title of Chief Engineer (Aircraft) 1955, Dir. and Chief Engineer of Bristol Aircraft Ltd. 1956, Technical Dir. Filton Div. of British Aircraft Corpn. 1960-69, Man. Dir. Filton Div. 1966-69, then Chair. 1967-69; fmr. Dir. of British Aircraft Corpn. Ltd. and British Chair. of Anglo-French Concorde Cttee. of Dirs. (Aircraft) 1965-69; Vice-Chair. BAC-Sud Aviation Concorde Cttee. 1969-70. *Address:* Glendower House, Clifton Park, Bristol 8, England.

RUSSELL, Donald Joseph; American businessman; b 3 Jan. 1900, Denver, Colo.; s. of Donald M. Russell and Josephine Nunan; m. Mary L. Herring 1921; two d.; ed. Stanford Univ.; with Southern Pacific Co. 1920-72, Asst. to Pres. 1941, Vice-Pres. 1941-51, Exec. Vice-Pres. 1951, Pres. 1952-64, Chair. 1964-72, Hon. Dir. 1972-; Dir. Emer. Tenneco Inc.; Founding Dir. Stanford Research Inst.; Hon. mem. The Business Council. *Address:* Southern Pacific Bldg., One Market Plaza, San Francisco, Calif. 94105 (Office); 2298 Pacific Avenue, San Francisco, Calif. 94115 U.S.A. (Home).

RUSSELL, Donald Stuart; American lawyer and politician; b. 22 Feb. 1906; ed. Univ. of Michigan; admitted to S. Carolina Bar 1928; legal practice 1930-42; mem. Price Adjustment Board, War Dept., Wash. 1942; Asst. to Dir. Econ. Stabilisation 1942, Asst. to Dir. War Mobilisation 1943; U.S. Army 1944; Deputy Dir. Office of War Mobilisation Reconversion 1945; Asst. Sec. of State 1945-47; Pres. Univ. of S. Carolina 1952-57; legal practice 1957-62; Gov. of S. Carolina 1962-65; Senator from S. Carolina 1965-66; Fed. Judge (Fourth Circuit) 1966-; Democrat. *Address:* 716 Otis Boulevard, Spartanburg, South Carolina 29302, U.S.A.

RUSSELL, Francis Henry, A.B., LL.D., LL.D.; American lawyer and diplomatist; b. 1 Oct. 1904, Cambridge, Mass.; s. of James P. Russell and Edith B. Pratt; m. Ruth A. Libbey 1932; one s. one d.; ed. Tufts Coll., and Harvard Law School; private law practice 1929-41; Chief Div. of World Trade Intelligence Dept. of State 1941-45; Dir. Office of Public Affairs 1945-52, and Chair. Nat. Conf. on American Foreign Policy Dept. of State 1949-50-51; Counsellor, Embassy, Tel-Aviv 1952-54, Chargé d'affaires 1953-54; Special Asst. to the Sec. of State 1955-56; Amb. to New Zealand 1957-61, to Ghana 1961-62, to Tunisia 1962-69; U.S. del. Colombo Plan Ministerial Conf. 1959; Amb. in Residence, Fletcher School of Law and Diplomacy, Tufts Univ. 1970-. *Leisure interests:* archaeology, farming. *Address:* North Parish Road, Turner, Maine, U.S.A. *Telephone:* 207-224-7432.

RUSSELL, George, B.S.; American automobile executive; b. 15 March 1905, Glasgow, Scotland; s. of James C. Russell and Elizabeth S. Chapman; m. Mary Love Rose 1936; one s. one d.; ed. Univ. of Minnesota; Treasurer, Gen. Motors Corpn. 1951-56, Vice-Pres. (Finance) and Dir. 1956, Exec. Vice-Pres. and Dir. 1958, Vice-Chair. of Board and Chair. Finance Cttee. 1967-70, Dir. mem. Finance Cttee. and Public Policy Cttee. 1970-74; Dir. Kennecott Copper Corpn., S.S. Kresge Co., Nat. Bank of Detroit, First Nat. Bank in Palm Beach 1970-77; Trustee, Kresge Foundation; Hon. LL.D. (Univ. of Strathclyde). *Leisure interests:* golf, travel. *Address:* 283 Lone Pine Road, Bloomfield Hills, Mich. 48013, also 11741 Lake House Court, North Palm Beach, Fla. 33408, U.S.A. *Telephone:* 313-644-8154, also (305) 626-3641.

RUSSELL, Sir Gordon (see Russell, Sir (Sydney) Gordon)

RUSSELL, Admiral James Sargent; American naval officer; b. 22 March 1903, Tacoma, Wash.; s. of Ambrose J. Russell and Loella J. Sargent; m. 1st Dorothy Johnson 1929 (deceased 1965), 2nd Geraldine Haus Rahn 1966; two s.; ed. Naval Acad., Annapolis and Calif. Inst. of Technology; Merchant Marine 1918-22; U.S. Navy 1926-65, Naval Aviator 1929-65, Admiral 1958-65; Aircraft Carrier Desk, Bureau of Aeronautics 1939-41, Dir. of Military Requirements 1943-44; Commdng. Officer, Aircraft Squadron 1942; Chief of Staff to Commdr. Carrier Div. 2, Pacific Campaigns 1944-45; Commdng. Officer U.S.S. Bairoko 1946-47, U.S.S. Coral Sea 1951-52; Deputy Dir., Military Application, Atomic Energy Comm. 1947-51; Office of Chief of Naval Operations 1952-54; Commdr. Carrier Div. 17 and 5, Pacific Fleet 1954-55; Chief, Bureau of Aeronautics 1955-57; Dep. Commdr. Atlantic Fleet 1957-58; Vice-Chief of Naval Operations 1958-61; C.-in-C. NATO Forces in Southern Europe 1962-65; recalled to active duty to direct review of safety in aircraft-carrier operations 1967, and to chair an evaluation group in Viet-Nam 1968; Consultant to Boeing Co. 1965-; Dir. Alaska Airlines 1965-70, Airtronics Inc. 1965-72; Collier Trophy 1956; D.F.C., D.S.M., etc. *Leisure interests:* aviation, swimming, sailing, gardening. *Address:* 7734 Walnut Avenue, S.W., Tacoma, Washington 98498, U.S.A. *Telephone:* 206-588-9356.

RUSSELL, Sir John Wriothesley, G.C.V.O., C.M.G.; retd. British diplomatist; b. 23 Aug. 1914, Wollaton, Notts.; s. of Sir Thomas Russell Pasha; m. Aliki Diplarakos 1945; one s. one d.; ed. Eton Coll., and Trinity Coll., Cambridge; Foreign Service 1937-74, Served Vienna, Foreign Office, Moscow, Washington, Warsaw, Brussels, Rome, New York 1936-53; First Dir.-Gen. Brussels Treaty Perm. Org., London 1948; Counsellor 1953, Dir.-Gen. British Information Services, New York 1953-56; Counsellor, Teheran 1956-59; Foreign Office Spokesman (Head of News Dept., Foreign Office) 1959-62; Amb. to Ethiopia 1962-66, to Brazil 1966-69, to Spain 1969-74; Foreign Affairs Adviser, Rolls-Royce Ltd. *Address:* 80 Chester Square, London, S.W.1, England.

RUSSELL, Ken; British film director; b. 3 July 1927, Southampton; m. Shirley Russell; five c.; ed. Nautical Coll., Pangbourne; fmr. actor and freelance magazine photographer; has directed many television documentaries for BBC which have been shown all over the world; has directed the following television documentaries: Elgar, Bartok, Debussy, Henri Rousseau, Isadora Duncan, Delius, Richard Strauss, Clouds of Glory; films: French Dressing 1964, Billion Dollar Brain 1967, Women in Love 1969, The Music Lovers 1970, The Devils 1971, The Boyfriend 1971, Savage Messiah 1972, Mahler 1973, Tommy 1974, Lisztomania 1975, Valentino 1977.

RUSSELL, Sir (Sydney) Gordon, C.B.E., M.C., R.D.I., F.S.I.A.D.; British industrial designer; b. 20 May 1892, London; s. of S. B. and Elizabeth Russell; m. Constance Denning 1921; three s. one d.; ed. Campden Grammar School; served with Worcestershire Regt. 1914-19; partner Russell & Sons 1919; Dir. Gordon Russell Ltd., The Lygon Arms Ltd., Chair. 1970-76; mem. Art Workers' Guild 1926–, Master 1962; elected Royal Designer for Industry 1940, Master of Faculty 1947-49; mem. Utility Furniture Cttee. and Furniture Production Cttee., Board of Trade 1943-47; original mem. Council of Industrial Design (now Design Council) 1944, Dir. of Council of Industrial Design 1947-59, mem. 1960-; mem. Design Panel, British Railways Board 1956-66; Pres. Design and Industries Assen. 1959-62; mem. Bank Note Design Cttee. of Bank of England 1960-70, Arts Advisory Cttee. of UNESCO Nat. Comm., U.K. 1960-66, Nat. Council for Diplomas in Arts and Design 1961-68, Crafts Advisory Cttee. 1971-74; Albert Medal of Royal Soc. of Arts 1962; Hon. F.R.I.B.A., Senior Fellow, R.C.A.; Hon. A.I.L.A.; Hon. LL.D. (Birmingham Univ.) 1960; Hon. Dr. (York Univ.) 1969; (Officer Order of Vasa (Sweden); Commdr. Order of St. Olav (Norway). *Publications:* The Story of Furniture 1947, The Things We See: Furniture 1948, Looking at Furniture 1964, Designer's Trade (autobiography) 1968. *Leisure interests:* gardening and handwork of many kinds. *Address:* Kingcombe, Chipping Campden, Gloucestershire, England. *Telephone:* Evesham 840253.

RUSSELL OF LIVERPOOL, 2nd Baron, cr. 1919; **Edward Frederick Langley Russell,** C.B.E., M.C.; British author; b. 10 April 1895, Liverpool; m. 1st Alix de Bréviare d'Alaincourt 1946 (died 1971); m. 2nd Selma Brayley 1972 (died 1977); ed. Liverpool Coll., and St. John's Coll., Oxford; served in British Army in France 1914-18, later with Indian Cavalry; served in office of Judge Advocate-Gen. 1934-54; during Second World War Dep. Judge Advocate-Gen. to B.E.F., First Army, Allied Force H.Q. and British Army of

the Rhine; responsible for all War Crimes trials in British Zone of Germany 1946-51; awarded Mil. Cross (2 bars), Légion d'honneur. *Publications:* The Scourge of the Swastika 1954, Though the Heavens Fall 1956, The Knights of Bushido 1958, That Reminds Me 1959, If I Forget Thee 1960, The Royal Conscience 1961, The Trial of Adolf Eichmann 1962, Knight of the Sword 1964, Deadman's Hill: Was Hanratty Guilty? 1965, Caroline the Unhappy Queen 1967, Return of the Swastika 1968, Henry of Navarre 1969, The French Corsairs 1970. *Address:* House of Lords, London, S.W.1, England.

RUST, Josef, DR.JUR.; German business executive; b. 12 Nov. 1907, Bremen-Blumenthal; ed. Univs. of Göttingen, Munich and Berlin; Assessor, Oldenburg Bar; with State Ministry of the Economy 1934; again at Oldenburg Bar 1945-48; Finance Ministry of Lower Saxony 1948; Dir. Dept. of Econ. and Finance, Fed. Chancellory 1949-52; Dir. Dept. of Raw Materials Industry, Fed. Ministry of the Economy 1952-55; Sec. of State, Fed. Ministry of Defence 1955; Chair. Man. Board, Wintershall AG 1959, now Chair. Supervisory Board: mem. Supervisory Board, Volkswagenwerk AG, Chair. 1966-74; mem. supervisory boards of various other German industrial companies. *Address:* 35 Kassel-Wilhelmshöhe, Steinhöferstrasse 4, Federal Republic of Germany.

RUSTOMJI, Nari Kaikhosru, M.A.; Indian civil servant (retd.); b. 16 May 1919, Lahore; s. of K. J. Rustomji and Homai Cooper; m. 1st Hilla Master 1951 (died 1953), 2nd Avi Dalal 1963; three d.; ed. Bedford School and Christ's Coll., Cambridge, England; joined Indian Civil Service 1941; Under-Sec. Assam Home and Political Dept. 1944; Adviser to Gov. of Assam 1948, Dewan (Prime Minister) of Sikkim, Speaker, Sikkim Council, Pres. Sikkim Exec. Council 1954-59; Adviser to Governor of Assam for North East Frontier Agency and Nagaland 1959; Adviser to King of Bhutan 1963-66; Chief Sec. to Gov. of Assam 1966, to Govt. of Meghalaya 1971; Ford Foundation Fellowship 1964, Visiting Fellow Cambridge 1979-80. *Publications:* Enchanted Frontiers: Sikkim, Bhutan and India's North-Eastern Borderlands, Bhutan: The Dragon Kingdom in Crisis. *Leisure interests:* music, writing, wildlife. *Address:* "Jony Castle", 96 Wodehouse Road, Colaba, Bombay 400 005, India. *Telephone:* Bombay 212208.

RUTSTEIN, David Davis, M.D.; American physician and professor; b. 5 Feb. 1909, Wilkes-Barre, Pa.; s. of Harry and Nellie (née Davis) Rutstein; m. 1st Mazie E. Weissman 1935, one d. one s.; m. 2nd Ruth E. Rickel 1951; ed. Harvard Univ.; Asst. and Research Fellow, Harvard Medical School 1936-47, Prof. of Preventive Medicine and Head of Dept. 1947-69, Ridley Watts Prof. 1966-76; Visiting Inst. Lecturer, M.I.T. 1970-71; Asst. Prof. Albany Medical Coll. 1940-43, Asst. Attending Physician, Albany Hosp. 1939-42; various assoc. and consulting posts; mem. and chair. comms. of WHO 1956, 1958, 1966, and other int. confs. and programmes; Foreign Corresp. mem. Acad. Nat. de Médecine (France); mem. Royal Soc. of Medicine (U.K.), various American asscns.; Vice-Pres. American Heart Assen. (Gold Heart Award 1959); Chevalier, Légion d'honneur (France); Benjamin Franklin Magazine Award 1957; Jubilee Medal, Swedish Medical Soc. 1966. *Publications:* Lifetime and Health Record 1958, The Coming Revolution in Medicine 1967, Engineering and Living Systems 1970, Blueprint for Medical Care 1974; also scientific papers. *Address:* 98 Winthrop Street, Cambridge, Mass. 02138, U.S.A. (Home).

RUTTEN, Franciscus Josephus Theodorus, DR. PSYCH., DR. LIT.; Netherlands psychologist; b. 15 Sept. 1899, Schinnen; s. of Renier Rutten and Josephine Douven; m. Hilda Elisabeth Cornelia Leën 1927; one s. four d.; ed. Univs. of Utrecht and Louvain, Sorbonne, Leipzig and Vienna Univs.; Teacher, St. Ignatius Coll., Amsterdam; Asst. Psychological Laboratory, Univ. of Nijmegen; Extra. Prof. Univ. of Nijmegen 1930, Ord. Prof. 1933, Rector Magnificus 1940, Dir. of Psychological Laboratory; arrested by Germans 1944; Minister of Education, Arts and Sciences 1948-52; Catholic Party; mem. New York Acad. of Sciences; Commdr. Order of Orange Nassau; Grand Cross Order of the Crown (Belgium); Grand Cross Order of Phoenix (Greece); Oak Crown (Luxembourg); Dr. h.c. Univ. of Athens. *Publications:* Felix Timmermans 1928, Psychologie der waarneming (Psychology of Perception) 1930, Symposion over het probleem der psychologie (Symposium of Psychological Problems) 1939, Training en opleiding tot vakman (Training and Instruction for Craftsmen) 1947, De overgang van het agrarische volkstype in het industriele type (The transition of an agricultural worker into an industrial worker) 1947, Persoonlijkheid in de spiegel der samenleving (Personality reflected in the Community) 1947, Menselijke Verhoudingen (Human Relations) 1955, Analyse gebarentaal doofstommen 1957, De geschiedkundige ontwikkeling der Sociale psychologie in Nederland 1958, Interhuman relations: How do they stand today? 1960, De methode van Nijmegen (The Method of Nijmegen), De ontwikkeling in het onderwijs van doven (The development of education of deaf men), Qu'en est-il des relations interhumaines? (What about inter-human relations?), Une étude de cas concernant le peuple néerlandais (A [illegible] study about Dutch people), Zelfstandigheid en afhankelijkheid van bejaarden (Independency and dependency of aged people), Psychologie [illegible] het toerisme (Psychology of tourism), Mensbeelden in de theoretische psychologie (Conception of [illegible] in psychological theories), Gedrag en Functie (Behaviour and Function), Gewone Psychologie (Life Psychology and Scientific Psychology). *Leisure interest:* belles lettres. *Address:* Pater Brugmanstraat 1, Nijmegen, Netherlands. *Telephone:* 080-224066.

RŮŽEK, Miloslav, PH.DR.; Czechoslovak diplomatist; b. 25 Jan. 1923, Kamenná Lhota; m. Věra Černohlávková 1949, two s. two d.; ed. Charles Univ., Prague; Local Govt. 1945-49, Ministry of Education and Culture 1949-50, Foreign Trade 1950-54, of Foreign Affairs 1954-; Counsellor, London 1954-57; Section Head, Ministry of Foreign Affairs 1957-59, 1963-66; Amb. to U.S.A. 1959-63, to U.K. 1966-71; Deputy Minister of Foreign Affairs 1971-75; Perm. Rep. to UN, Geneva 1975-; Distinction "For Merits in Construction" 1973. *Address:* Mission of Czechoslovakia to UN at Geneva, 9 chemin de l'Ancienne Route, 1218 Grand-Saconne, Geneva, Switzerland.

RYABINKINA, Yelena Lvovna; Soviet ballet dancer; b. 1941, Moscow; ed. Bolshoi Theatre Ballet School; joined Bolshoi Theatre Ballet Company 1959; Hon. Actress of R.S.F.S.R.; principal roles: Odette-Odille (Swan Lake), Raimonde (Raimonde), Mirta (Giselle), Kitri (Don Quixote), Vanina Vanini (Vanina Vanini), Persian Dance (Khovanshchina), Zarema (Fountain of Bakhchisarai), etc. *Address:* State Academic Bolshoi Theatre of the U.S.S.R., Ploshchad Sverdlova, Moscow, U.S.S.R.

RYABOV, Yakov Petrovich; Soviet politician; b. 1928; ed. Urals Polytechnical Inst.; Member CPSU 1954-; design technician, design engineer, departmental head at Sverdlovsk Turbine and Motor Works 1946-58; party work 1958-63; First Sec. Sverdlovsk City Cttee. CPSU 1963-66, Second Sec. 1966-71, First Sec. Sverdlov Regional Cttee. CPSU 1971-76; [illegible] of the CC, CPSU 1971-; Sec. of the CC, CPSU with Responsibility for Defence Industry 1976-79; various decorations. First Deputy Chair. of Gesplan April 1979–. *Address:* Central Committee of the CPSU, Staraya Ploshchad 4. Moscow, U.S.S.R.

RYAN, Most Rev. Dermot, D.D., B.D., S.T.L., L.S.S., M.A.; Irish ecclesiastic; b. 27 June 1924, Dublin; s. of Dr. Andrew and Theresa (née McKenna) Ryan; ed. Belvedere Coll., Dublin, Holy Cross Coll., Clonliffe, Univ. Coll., Dublin, St. Patrick's Coll., Maynooth, St. John Lateran Univ., Rome, Gregorian Univ., Rome, and Pontifical Biblical Inst., Rome; Prof. of Fundamental Dogmatic Theology, Holy Cross Coll., Clonliffe 1955-57; part-time Prof. of Eastern Languages, Univ. Coll., Dublin 1957; Visiting Prof. (Old Testament Studies), Clonliffe Coll. 1967; appointed to Chair. of Semitic Languages, Univ. Coll., Dublin 1969; Archbishop of Dublin and Primate of Ireland Feb. 1972-. *Publications:* Group Study of Bible in Europe 1957, Sacraments Foreshadowed 1964, The Mass in Christian Life 1965, Teaching Scripture 1966, Commentaries on the Old Testament books of Hosea, Amos, Micah and Zachariah 1969. *Leisure interests:* golf, squash. *Address:* Archbishop's House, Dublin 9, Ireland. *Telephone:* 373732.

RYAN, Gen. John Dale; American air force officer; b. 10 Dec. 1915, Cherokee, Iowa; s. of Edward T. Ryan and Mabel C. Dubel; m. Jo Guidera 1939; two s. one d.; ed. U.S. Military Acad., West Point; served Second World War; Dir. of Training, Advanced Bombardment School, Midland Field, Tex. 1942-Aug. 1943; Operations Officer H.Q. Second Air Force, Colorado Springs Aug. 1943-Jan. 1944; Commdr. Second Bombardment Group and Operations Officer, 5th Bombardment Wing, 15th Air Force in Italy Jan. 1944-Feb. 1945; Air Training Command at Carswell, Tex. and participation in Bikini Atoll nuclear weapons tests April 1945-Sept. 1946; Eighth Air Force Dir. of Operations and commdr. at various U.S. bases Sept. 1946-June 1956; with Strategic Air Command June 1956-1957; U.S.A.F. Insp.-Gen. Aug. 1963-Aug 1964; Vice-C.-in-C. Aug. 1964-Nov. 1964, C.-in-C. Dec. 1964-67; C.-in-C. Pacific Air Force 1967-68; Vice-Chief of Staff U.S.A.F. 1968-69, Chief of Staff U.S.A.F. 1969-73; numerous decorations, including D.S.M., Legion of Merit and Croix de guerre avec palme, Gallantry Cross (Viet-Nam); Hon. LL.D. (Creighton Univ., Omaha) 1966, (Akron Univ., Ohio) 1967. *Address:* H.Q. U.S.A.F. (A.F.C.C.S.), Room 4E929, The Pentagon, Washington, D.C. 20330; Quarters 5, Fort Myer, Va. 22211, U.S.A. (Home).

RYAN, Peter Allen, B.A., M.M.; Australian publisher; b. 4 Sept. 1923, Melbourne; s. of Emmett F. and Alice D. Ryan; m. Gladys A.

Davidson 1947; one s. one d.; ed. Malvern Grammar School, Melbourne and Univ. of Melbourne; mil. service 1942-45; Dir. United Service Publicity Pty. Ltd. 1953-57; Public Relations Manager, Imperial Chemical Industries of Australia and New Zealand Ltd. 1957-61; Asst. to Vice-Chancellor, Univ. of Melbourne 1962; Dir. Melbourne Univ. Press 1962-. *Publications:* Fear Drive My Feet 1959, The Preparation of Manuscripts 1966, Encylopaedia of Papua and New Guinea (Gen. Editor) 1972, Redmond Barry 1973. *Leisure interests:* reading, writing, riding. *Address:* 932 Swanston Street, Carlton, Vic. 3053, Australia. *Telephone:* 347-3455.

RYAN, Richie, T.D., B.A.; Irish politician and lawyer; b. 1929, Dublin; s. of James R. Ryan and Irene Boyle; m. Mairéad King 1956; three s. two d.; ed. Synge St. Christian Brothers' School, Dublin, Univ. College, Dublin, Inc. Law Soc. of Ireland Law School; Auditor of Literary and Historical Soc., Univ. Coll., Dublin 1950-51; Personal Asst. to Minister for Justice 1954-57; mem. Dáil (House of Reps.) 1959-; mem. Dublin City Council 1960-73; Commdr. of Irish Lights 1960-; Del. to Consultative Assembly of Council of Europe 1967-73; Chair. Dublin Health Authority 1957-58; Amnesty Int. Rep. in Middle East 1969-70; mem. of European Parl. 1973, 1977-; Trustee of Fine Gael Party and Spokesman on Foreign Affairs 1973; Minister for Finance, Minister for the Public Service 1973-77; Chair. Board Govs. IMF and World Bank 1976-77; Pres. EEC Council of Ministers of Finance and Economy 1975; Gov. European Investment Bank 1973-77; mem. Inc. Law Soc. of Ireland, Inst. of Taxation in Ireland, Dublin Grand Opera Soc., Royal Dublin Soc., An Taisce, Royal Zoological Soc. of Ireland, Amnesty Int. (Irish Section); mem. Fine Gael Party. *Leisure interests:* reading, theatre, music. *Address:* Leinster House, Dublin 2 (Office); St. Mary's, 127 Templeogue Road, Terenure, Dublin 6, Ireland (Home). *Telephone:* 789911 (Office).

RYAN, Robert Joseph; American diplomatist; b. 1914, Hatfield, Mass.; s. of Thomas W. and Hannah W. Ryan; m. Mary O'Leary 1938; two s.; ed. Massachusetts State Coll. and Columbus Univ.; mem. D.C. Bar; Dept. of State 1937-; Exec. Dir. Bureau of Near Eastern South Asian and African Affairs 1955-58; Nat. War Coll. 1958; Admin. Counsellor, Paris 1959-64; Amb. to Niger 1964-68; Deputy Asst. Sec. for Org. and Management 1968-69, Dir. Admin. Man. Services, UN 1969-72; Asst. Sec.-Gen for Gen. Services, UN 1972-77, Consultant UNA/U.S.A. 1978-. *Address:* Aquarius Condominium, 1575 Ocean Shore Boulevard, Apartment 901, Ormond Beach, Fla. 32074, U.S.A.

RYBAKOV, Boris Aleksandrovich; Soviet historian and archaeologist; b. 3 June 1908, Moscow; ed. Moscow Univ.; Dir. archaeological expeditions at Vyshgorod, Moscow, Zvenigorod, Chernigov, etc. 1932-; Assoc. Inst. of History of Material Culture, U.S.S.R. Acad. of Sciences 1936-39; Lecturer, Moscow Univ. 1938-43, Prof. 1943-; Dir. Inst. of History of Material Culture, now Inst. of Archaeology, U.S.S.R. Acad. of Sciences 1943-; Pres. U.S.S.R.-Greece Soc.; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-58, mem. CP 1958-; Bureau mem. Dept. of Historical Science, U.S.S.R. Acad. of Sciences 1957-, Sec. 1973-75; Bureau mem. Nat. Cttee. of Soviet Historians 1957-; Foreign mem. Czechoslovak Acad. of Sciences, Polish Acad. of Sciences 1970; State Prize 1949, 1952; Hero of Socialist Labour 1978. *Publications include:* The Radimichians 1932, Chernigov Antiquities 1949, Russian Systems of Linear Measurements from 11th—15th Century 1949, Handicraft of Ancient Russia 1948, Three Bogatyrs 1969, The "Slovo" and its Contemporaries 1970, Russian Applied Art of the X–XIII Centuries 1971, Russian Chroniclers and the Author of the "Slovo" 1972, Poland and Russia XVII–XIX Centuries 1974, Russian Maps of Muscovy from 15th to Beginning of 16th Centuries 1974, The 1073 Chronicle of Syatoslav 1977, Cultural Exchange in Eastern Europe in the 16th Century 1976. *Address:* Institute of Archaeology, U.S.S.R. Academy of Sciences, 19 D. Ulyanov, Moscow, U.S.S.R.

RYBICKI, Zygmunt, M.A., LL.D.; Polish university rector; b. 15 May 1925, Panki; s. of Stanisław and Maria Górska; m. Maria Warowna 1952; two d.; ed. Univ. of Warsaw; in Polish Partisan Army 1942-45; Civil Office of Pres. of Poland 1947; Scientific worker Acad. of Political Sciences 1948-50, Faculty of Law, Warsaw Univ. 1950; Prof. of Admin. Law, Univ. of Warsaw 1959; Dir. Ministry of Higher Educ. 1963-65; Deputy Rector Warsaw Univ. 1965-69, Rector 1969-; Pres. Popular Knowledge Soc. 1969-77; Deputy mem. Cen. Cttee., Polish United Workers' Party 1971-; Pres. Cttee. of Legal Science, Polish Acad. of Sciences 1972-74; mem. Int. Political Sciences Asscn., American Asscn. for Public Admin. Sciences, Asscn. du Droit Comparé; Knight and Officer Order of Polonia Restituta, Cross for Valour, Partisan Cross, Golden Cross of Merit, S. Vavilov Medal (U.S.S.R.) 1973, Commdr. Nat. Order of Merit (France) 1975, Commdr. Order of Henry the Sailor (Portugal) 1976, Grand Officer Cross of Crown Order (Belgium) 1977, Order of the Banner of Labour (1st class) 1977; Prize of Polish Inst. of Int. Affairs (for Economic Admin. in Poland) 1976. *Publications:* Council of Workers' Delegates in Poland 1918-19 1962, The Structure and Functioning of People's Councils in the Polish People's Republic 1965, Administrative Law: Aspects of Planned Economy 1968, System of Local Government in Poland 1971, Economic Administration in COMECON Countries (Council of Mutual Economic Assistance) 1974, Economic Administration in Poland 1975. *Leisure interest:* touring. *Address:* Uniwersytet Warszawski, Krakowskie Przedmieście 26/28, 00-325 Warsaw; Grażyny 22 m. 7, 02-548 Warsaw, Poland (Home). *Telephone:* 26-18-47 (Office); 45-30-17 (Home).

RYCHLEWSKI, Jan, D.ENG.; Polish scientist; b. 23 May 1934, Moscow, U.S.S.R.; ed. Tech. Univ., Warsaw; Dr. of Tech. Sciences 1964-65, Asst. Prof. 1965-70, Extraordinary Prof. 1970-; Scientist, Inst. of Fundamental Technological Problems, Polish Acad. of Sciences (IPPT PAN) 1958-, Head of Lab. of Math. Theory of Plasticity, Dept. of Continuous Mediums Mechanics; Co-organizer of S. Banach Math. Centre, Warsaw; Corresp. mem. Polish Acad. of Sciences 1973-, mem. Presidium and Sec. 1978-; mem. Polish United Workers' Party (PZPR) 1952-; First Deputy Chief of Dept. of Science and Educ., Cen. Cttee. PZPR 1972-; Gold Cross of Merit, Chevaliers' Cross of Order of Polonia Restituta and other decorations. *Publications:* over 50 works on problems of mechanics of continuous mediums, including Plastyczność ciał o skokowej niejednorodności 1966, Niewrażliwość materiałów na zmiany dróg odkształcenia 1972, Teoria materiałów 1975; Co-author Teoria plastyczności 1962. *Address:* Instytut Podstawowych Problemów Techniki PAN, ul. Swiętokrzyska 21, 00-049 Warsaw; Home: Al. Niepodległości 132 m. 70, 00-554 Warsaw, Poland.

RYDBECK, Olof, B.A., B.L.; Swedish diplomatist and radio administrator; b. 15 April 1913, Djursholm; s. of Oscar Rydbeck and Signe Olson; m. Monica Schell 1940; one s. one d.; ed. Djursholm Secondary School, Uppsala Univ.; Attaché Ministry for Foreign Affairs 1939, Berlin 1940, Ankara 1941; Second Sec. Ministry for Foreign Affairs 1943-45, Washington 1945-46; First Sec. Washington 1946-50, Bonn 1950-53; Head of Press Section Ministry for Foreign Affairs 1953-55; Dir.-Gen. Swedish Broadcasting Corpn. 1955-70; mem. Board for Psychological Defence Preparedness 1954-70, Board of Dirs. Stockholm Concert Soc. 1955-62, Cen. Cttee. Swedish Red Cross 1955-70, Council Swedish Inst. 1956-70, Royal Acad. of Music 1962-; Board of Dirs. T.T. (Swedish Central News Agency) 1967-70, Inst. of Int. Affairs 1967-; Chair. Int. Broadcasting Inst. 1967-70, mem. 1970-, UNESCO Advisory Cttee. on Outer Space Communications 1967-70; Pres. European Broadcasting Union 1961-64, Hon. Chair. 1964-; Perm. Rep. to UN 1970-76; Amb. to U.K. 1976-79. *Leisure interests:* music, literature. *Address:* c/o Ministry of Foreign Affairs, 7 Juniplassen 1, Oslo, Norway.

RYDER OF EATON HASTINGS, Baron (Life Peer), cr. 1975; **Sydney Thomas (Don) Ryder,** Kt.; British business executive; b. 16 Sept. 1916, Ealing, London; s. of John Ryder; m. Eileen Winifred Dodds 1950; one s. one d.; Ed. Stock Exchange Gazette 1950-60; Joint Man. Dir. Kelly Iliffe Holdings and Assoc. Iliffe Press 1960-61, Sole Man. Dir. 1961-63; Dir. Int. Publishing Corpn. 1963-70; Man. Dir. Reed Paper Group 1963-68, Chair., Chief Exec. Reed Int. 1968-74; Industrial Adviser, Cabinet Office 1974-75; Chair. Nat. Enterprise Board 1975-77; Dir. Metropolitan Estate Property Corpn. Ltd. 1972-75; part-time mem. British Gas Corpn. 1973-78; mem. of Council, British Inst. of Management 1970-, Cranfield Inst. of Technology 1970-, Industrial Soc. 1971-, Nat. Econ. Devt. Council 1975-; Pres. Nat. Materials Handling Centre 1970-; Vice-Pres. Royal Soc. for Prevention of Accidents 1973-. *Leisure interests:* sailing, squash, chess. *Address:* c/o National Enterprise Board, 12/18 Grosvenor Gardens, London, SW1W 0DW, England.

RYDIN, Bo, B.SC.; Swedish business executive; b. 7 May 1932; with Stockholms Enskilda Bank 1956-57; Marma-Långrör AB 1957-60; A.B. Gullhögens Bruk 1960, Pres. and Chief Exec. Officer 1965-71; Pres. and Chief Exec. Officer Svenska Cellulosa Aktiebolaget 1972-; mem. Board Borås Invest AB, Svenska Handelsbanken, AB Industrivärden, Mölnlycke AB, Papierwerke Waldhof-Aschaffenburg AG, Papeteries Léon Clergeau SA, Papelera Navarra SA; Chair. Sundsvall Chamber of Commerce; British Consul. *Address:* Svenska Cellulosa Aktiebolaget, 851 88 Sundsvall, Sweden.

RYELANDT, Baron Daniel-Benoit, D. EN D.; Belgian barrister; b. 1903; ed. Univ. of Louvain; Barrister, Brussels Court of Appeal 1927; Sec. to Prime Minister 1932; Head of Secretariat of Ministries of Interior and Agriculture 1934-38; Gen. Manager of Agence-Télégraphique Belge de Presse (Belga) 1938-, now Chair.; mem. of Cttee. of Revue Générale Belge (monthly). *Address:* Agence Belga, 1 blvd. Charlemagne, 1040 Brussels; 6 rue de la Science, Brussels, Belgium.

RYERSON, Knowles Augustus, M.S., LL.D.; American horticulturalist and educationist; b. 17 Oct. 1892, Seattle, Wash.; s. of Will A. Ryerson and Jessie Knowles; m. 1st Emma Mary Freeman (deceased), 2nd Edith Palmer Popenoe 1969; one s. (deceased); ed. Univ. of Calif.; Agricultural damage investigator, American Peace Comm. 1919; mem. staff Univ. of California Agricultural Extension Service 1919-25; Horticulturalist Haiti Agricultural Experimental Station 1925-27; Horticultural Survey of Palestine 1927; Dir. Div. of Foreign Plant Introduction U.S. Dept. of Agriculture 1928-34; Chief Bureau of Plant Industry 1934; fmrly. in charge Tropical and Sub-Tropical Fruit Investigations U.S. Dept. of Agriculture 1935-37; Dir. and Prof. of Horticulture Coll. of Agric. Univ. of Calif., Davis Campus 1937-52; Dean Coll. of Agric., Berkeley Campus 1952-60, Prof. Emer. 1960-; on leave, serving ■ Special Rep. Pacific Ocean Area, Board of Economic Warfare, Foreign Economic Admin. 1942-44; Chair. Pacific Science Board, Nat. Research Council (U.S.) 1946-53; mem. Hopkins Comm. Civil Govt., Guam and Samoa 1947; mem. Research Council, South Pacific Comm. 1948-53, 1963-, Commr. 1953-56, Senior Commr. 1956-63; Admin. Board Inter-American Inst. of Agricultural Sciences, Costa Rica 1945-54, Chair. 1950-54; Sr. Agricultural Officer ECA, Bangkok, Thailand 1950-51; U.S. Rep. Pacific Science Council 1950-63; U.S. Rep. UN/South Pacific Comm. Jt. Project Rhinoceros Beetle Control Operations Board 1963-; Special Asst. to Chancellor, Santa Cruz Campus (South Pacific Studies) and to Chancellor, Davis Campus (Arboretum), Univ. of Calif.; Fellow, American Assen. for the Advancement of Science, Washington Acad. of Science; Berkeley Fellow; President's Citation 1946; Chevalier de Mérite agricole (France), Ouissam Alouite (Morocco), Bronze Medal Soc. d'Acclimatation (France), Frank L. Meyer Medal for Plant Exploration, Centennial Award Distinguished Service (Santa Cruz Campus and Berkeley Campus, Univ. of Calif.), State Agricultural Experiment Station Centennial Medal, American Horticultural Soc. Citation. *Publication:* The World is my Campus. *Leisure interests:* gardening, amateur astronomy. *Address:* 101 Giannini Hall, University of California, Berkeley, Calif. 94720, U.S.A.

RYLAND, Sir (Albert) William (Cecil), Kt., C.B., COMP.I.E.E.; British posts and telecommunications executive; b. 10 Nov. 1913, Tunbridge Wells; m. Sybil Wookey 1946; one s. one d.; ed. Gosforth County Grammar School; Asst. Traffic Supt. 1934, Asst. Surveyor 1938; war service 1939-45; Principal 1949, Principal Private Sec. to Postmaster-Gen. 1954; Asst. Sec. 1955, Dir. of Establishments and Org. 1958; Dir. of Inland Telecommunications 1961-65, Dep. Dir.-Gen. 1965-67; Man. Dir. Telecommunications 1967-69; Deputy Chair. and Chief Exec. The Post Office 1969-71, Chair. and Chief Exec. 1971-77; mem. Standing Cttee. on Pay and Comparability 1979-; Liveryman of Worshipful Co. of Gardeners; Hon. C.G.I.A. *Address:* 23 Howland Street, London, W1P 6HQ (Office); 13 Mill View Gardens, Croydon, CR0 5HW, England (Home). *Telephone:* 01-631 2345 (Office); 01-656 4224 (Home).

RYLE, Sir Martin, Kt., M.A., F.R.S.; British physicist and astronomer; b. 27 Sept. 1918; ed. Bradfield Coll., and Christ Church, Oxford; worked at Telecommunications Research Estab. 1939-45; ICI Fellowship, Cambridge 1945; Univ. Lecturer 1948; Fellow of Trinity Coll., Cambridge 1949-; Reader in Physics, Cambridge Univ. 1957-59, Prof. Radio Astronomy 1959-; Dir. Mullard Radio Astronomy Observatory 1958-; mem. Soviet Acad. of Sciences 1971-; Henry Draper Medal, U.S. Nat. Acad. of Sciences 1965; Astronomer Royal 1972-; Royal Soc. Medal 1973, Nobel Prize for Physics (with Antony Hewish, *q.v.*) 1974. *Address:* 5A Herschel Road, Cambridge, England.

RYRIE, William Sinclair, C.B., M.A.; British civil servant and international official; b. 10 Nov. 1928, Calcutta, India; s. of Rev. Dr. Frank and Mabel M. Ryrie; m. 1st Dorrit Klein 1953 (dissolved 1969), two s. one d.; m. 2nd Christine G. Thomson 1969, one s.; ed. Heriots School, Edinburgh, Edinburgh Univ.; army service, Lieut. Intelligence Corps in Malaya 1951-53 (dispatches 1953); joined Colonial Office ■ Asst. Principal 1953; seconded to Govt. of Uganda 1956-58; Principal, UN Affairs, Colonial Office 1959-63; Principal, Balance of Payments Div. of H.M. Treasury 1963-66, Asst. Sec. for Int. Monetary Affairs 1966-69; Principal Private Sec. to Chancellor of the Exchequer 1969-71; Under-Sec., Public Sector Group in Treasury 1971-75; Econ. Minister, Embassy in U.S.A. and Exec. Dir. of IMF, IBRD, IDA, IFC Oct 1975-. *Leisure interests:* music, photography. *Address:* 76 Kalorama Circle, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* (202) 477-3186 (Office); (202) 462-6212 (Home).

RYSANEK, Leonie; Austrian soprano; b. 14 Nov. 1928, Vienna; d. of Peter and Josefine (née Hoeberth) Rysanek; m. Ernst Ludwig Gausman 1968; ed. Vienna Conservatory; roles include Sieglinde (Die Walküre) Bayreuth 1951, Senta (Der fliegende Holländer) San Francisco 1956, Lady Macbeth, Metropolitan Opera 1959, Crysothemis (Elektra) Paris 1973, Medea, Athens 1973, Gioconda, Berlin 1974, die Kaiserin (Die Frau ohne Schatten) Salzburg Festival 1974, (Salome) 1974, (Die Walküre) 1975, Kundry (Pasifal) Hamburg 1977, Santuzza (Cavalleria Rusticana) Munich 1978; also frequent appearances in New York, Munich, Milan, London, Edinburgh, Aix en Provence, Hamburg, Budapest, Vienna, Paris, Moscow, San Francisco, Bayreuth; Kammersängerin of Austria and Bavaria; Chappel Gold Medal of Singing (London), Silver Rose (Vienna Philharmonic), Austrian Gold Cross (1st Class) for Arts and Science, Cigale d'or (France) 1976; hon. mem. Vienna Staatsoper. *Address:* 8201 Altenbeuern über Rosenheim, Federal Republic of Germany.

RYSSDAL, Rolv Einar Rasmussen, CAND.JUR.; Norwegian judge; b. 27 Oct. 1914, Bergen; s. of Anders Rasmussen Ryssdal and Martha Seim; m. Signe Marie Stray 1954; two s. one d.; ed. Oslo Univ.; Deputy Crown Prosecutor, Attorney-Gen.'s Office 1945; called to the Bar of the Supreme Court 1948; Under-Sec. of Justice 1956; Justice, Supreme Court 1964, Chief Justice 1969-; Judge European Court of Human Rights 1973-; Commdr. with Star, Order of St. Olav (Norway); Commdr. 1st Class, Order of Dannebrog (Denmark); Commdr. Order of Nordstjerne (Sweden). *Address:* Supreme Court, Grubbegt. 1, Oslo 1; Øvre Ullern terrasse 34, Oslo 3, Norway (Home).

RYSTE, Ruth Anlaug; Norwegian politician; b. 24 July 1932, Bamble; d. of Hans and Christine Skaugen; m. Øyvind Ryste 1954; Official, then Head of Section, Bamble Insurance Office 1950-70; Sec. Norwegian Inst., of Tech. 1970-73; Personal Sec. of Minister of Consumer Affairs and Administration 1973-75; Sec., Civil Servants Assen. 1975-76; Minister of Social Affairs 1976-; mem. of Bamble Local Bd.; mem. Norwegian Confed. of Trade Unions 1969-71; mem. Bd. of Nat. Theatre 1975-; mem. Central Bd. of Norwegian Labour Party 1976-. *Address:* Ministry of Social Affairs, Postboks 8011, Dep. Oslo; Vassfaret 12, Oslo 3, Norway (Home). *Telephone:* 11 85 00.

RYTKHEU, Yuriy Sergeyevich; Soviet writer; b. 8 March 1930, Uellen, Chukotka N.O., Magadan Region; ed. Leningrad Univ.; foremost Chukchi writer; works have been translated into Russian; started writing for the newspaper Soviet Chukotka 1947; mem. CPSU 1967-; Badge of Honour. *Publications:* Short stories: Friends and Comrades, People of our Coast 1953, When the Snow Melts (novel) 1960, The Sorceress of Konerga 1960, The Saga of Chukotka 1960, Farewell to the Gods (short stories) 1961, Nunivak (tales) 1963, The Magic Gauntlet (novel) 1963, In the Vale of the Little Sunbeams (novel) 1963, The Walrus of Dissent (stories) 1964, Blue Peppers (stories) 1964, Wings Are Becoming Stronger in Flight (novel) 1964, Bear Stew (verses) 1965, The Finest Ships 1967, Dream at the Onset of Rust 1969, Frost on the Threshold 1970, The Harpoon Thrower 1971, Dream in the Mist (novel) 1972, White Snows (novel) 1976, When the Whales Depart 1976. *Address:* Union of Writers of the U.S.S.R., Ul. Vorovskogo 52, Moscow, U.S.S.R.

RYZHOV, Nikita Semyonovich; Soviet diplomatist; b. 8 June 1907, Baryatino, Smolensk Region; ed. Moscow Industrial Acad.; fmr. U.S.S.R. Minister of Textile Light Industry; Diplomatic Service 1957-; Amb. to Turkey 1957-66, to Italy 1966-; mem. Central Auditing Comm. of CPSU 1966-. *Address:* U.S.S.R. Embassy, Via Gaeta 5, Rome, Italy.

S

SÁ CARNEIRO, Dr. Francisco; Portuguese lawyer and politician; b. 19 July 1934, Oporto; s. of José Gualberto and Maria Francisca Sá Carneiro; m. Isabel Nunes Matos Sá Carneiro 1956; three s. two d.; ed. Law Faculty, Lisbon Univ.; co-founder, Confronto Co-operative; Pres. Revista dos Tribunais; Independent mem. Nat. Assembly, author of eight major legislative proposals 1969-73, resigned 1973; worked with Expresso and other newspapers; Founder and Sec.-Gen. Popular Democratic Party (PPD), later the Social Democratic Party (PSD) 1974-78, and Pres. (re-elected) mem. PSD Nat. Council Jan. 1978-; Minister without Portfolio May-July 1974. *Publications:* Uma Tentativa de Participação Politica 1971, Revisão da Constituição Politica 1971, As Revisões da Constituição Politica 1973, Ser ou Não Ser Deputado? 1973, Por uma Social-Democracia 1975, Poder Civil, Autoridade Democrática e Social-Democracia 1975. *Leisure interests:* swimming, tennis, reading. *Address:* Partido Social Democrático, Av. Duque de Loulé 12, Lisbon; Rua Marechal Saldanha No. 337—2°E, Porto, Portugal (Home). *Telephone:* 557102 (Home).

SA'AD, Farid, (see Sa'd, Farid).

SAARINEN, Aarne; Finnish politician; b. 5 Dec. 1913, Degerby; s. of Armas R. Saarinen and Maria Tomminen; m. Helmi Aho 1933; three c.; fmr. mason; fmr. mem. Social-Democratic Party; Joined Finland-U.S.S.R. Soc. 1940; mem. Finnish Communist Party 1944, mem. Central Cttee. 1957-, mem. Political Bureau 1964-, Chair. Finnish Communist Party 1966-; Officer Building Workers' Union 1945, Sec. for Educ. 1947-50, Pres. 1954-66; mem. Diet 1962-; mem. Gen. Council of World Fed. of Trade Unions 1961-69; Vice-Pres. Finnish People's Democratic League 1973-, Finnish Peace Cttee. *Address:* Suomen Kommunistinen Puolue, Sturenkatu 4, 00510 Helsinki 51, Finland. *Telephone:* 750844.

SABA, Elias, B.LITT.; Lebanese economist and politician; b. 1932, Lebanon; s. of Shukri Saba and Guilnar Abou Haidar; m. Hind Sabri Shurbagi 1960; five d.; ed. American Univ. of Beirut and Univ. of Oxford; Econ. Adviser to Ministry of Finance and Petroleum, Kuwait and Kuwait Fund for Arab Econ. Devt. 1961-62; Chair. Dept. of Econs., American Univ. of Beirut 1963-67; Assoc. Prof. of Econs., American Univ. of Beirut 1967-69; Deputy Prime Minister of the Lebanon, Minister of Finance and of Defence 1970-72; Econ. and Financial Adviser to the Pres. 1972-73; Chair., Gen. Man. St. Charles City Centre S.A.R.L. 1974-; Chair. and Chief Exec. Arab Int. Finance Co. (ARINFI) S.A., Switzerland 1974-; mem. Nat. Dialogue Cttee. 1975. *Publications:* Postwar Developments in the Foreign Exchange Systems of Lebanon and Syria 1962. *Address:* P.O. Box 9500, Beirut, Lebanon. *Telephone:* 302885, 363271, 350350/1.

SABA, Hanna, D. EN D.; Egyptian jurist and diplomatist; b. 23 July 1909, Damietta; s. of S. Saba Bey and Catherine Fackr; m. Carmen Sednaoui 1937; one s. two d.; ed. Coll. of Jesuit Fathers, Cairo, Faculté de Droit, Paris, and Ecole libre des Sciences politiques, Paris; Ministry of Foreign Affairs, Cairo 1942, Counsellor 1946, Minister 1952; Dir. of Treaties Div., UN Secr. 1946-50; Juridical Adviser, UNESCO 1950-67; Asst. Dir.-Gen. of UNESCO 1967-71, Alt. Chair. Appeals Board 1973; Vice-Chair. Council of Arbitrations Franco Arabe Chamber of Commerce; Grand Officer of Merit (Egypt); Officer of the Nile; Grand Cross of Merit; Ordre de Malte. *Publications:* L'Islam et la nationalité 1932, L'évolution dans la technique des traités, Les droits économiques et sociaux dans le projet de pacte des droits de l'homme, Les ententes et accords régionaux dans la Charte des Nations Unies (Course at Acad. of Int. Law, The Hague 1952), L'activité quasi-législative des institutions spécialisées des Nations Unies (Course at Acad. of Int. Law, The Hague 1964). *Leisure interest:* golf. *Address:* 3 boulevard de la Saussaye, Neuilly (Hauts de Seine) 92.200, France.

SABAH, Sheikh Jaber al-Ahmad al-Jaber as-; Amir of Kuwait; b. 1928, Kuwait; ed. Almubarakiyyah School, Kuwait, and private tutors; Gov. of Ahmadi and Oil areas 1949-59; Pres. Dept. of Finance and Economy 1959; Minister of Finance, Industry and Commerce 1963; Minister of Finance, Industry and Commerce 1965; Prime Minister 1965-67; Crown Prince 1966-77; Amir Jan. 1978-, succeeding his uncle. *Address:* Sief Palace, Amiry Diwan, Kuwait (official residence).

SABAH, Sheikh Saad al-Abdullah as-Salem as-; Kuwaiti politician; Deputy Pres., Police and Public Security Dept. until 1961; Minister of the Interior 1961-65; Minister of the Interior and Defence 1965-78; Head of Ministerial Cttee. on Labour Problems 1975-78; Crown Prince Jan. 1978-; Prime Minister Feb. 1978-. *Address:* Office of the Prime Minister, Kuwait City, Kuwait.

SABAH, Sheikh Sabah al-Ahmad al-Jaber as-; Kuwaiti politician; b. 1929; ed. Mubarakiyyah National School, Kuwait and privately; mem. Supreme Cttee. 1955-62; Minister of Public Information and Guidance and of Social Affairs 1962-63; Minister of Foreign Affairs 1963-, acting Minister of Finance and Oil 1965, Minister of the Interior 1978; Deputy Prime Minister Feb. 1978-. *Address:* Ministry of Foreign Affairs, Kuwait City, Kuwait.

SABAH, Sheikh Salim as-; Kuwaiti diplomatist; b. 18 June 1937; s. of the late Sheikh Sabah as-Salim as-Sabah, Amir of Kuwait; ed. Secondary School Kuwait, Gray's Inn, London, and Christ Church, Oxford; joined Foreign Service 1963; fmr. Head Political Dept. Ministry of Foreign Affairs; Amb. to the U.K. 1965-70; also to Norway, Denmark and Sweden 1968-70; Amb. to U.S.A. 1970-75, also accred. to Canada; rep. of Kuwait to confs. in Middle East and Africa, including Arab Summit Conf., Casablanca Oct. 1965, Minister of Social Affairs and Labour 1975-78, of Defence 1978-. *Address:* Ministry of Defence, Kuwait City, Kuwait.

SABAH, Sheikh Saud Nasir as-; Kuwaiti diplomatist; b. 3 Oct. 1944, Kuwait; Barrister-at-Law, Gray's Inn, Legal Dept., Ministry of Foreign Affairs; Rep. to Sixth Cttee., UN Gen. Assembly 1969-74, to Seabed Cttee. 1969-73; Pres. IMCO 1977-78; Vice-Chair. del. to Conf. on Law of the Sea 1974-75; rep. of del. to Conf. on Law of Treaties 1969; Amb. to U.K., also accred. to Denmark, Norway and Sweden 1975-. *Address:* Embassy of Kuwait, 46 Queen's Gate, London, W1N 2AX, England.

SABATIER, Robert; French writer; b. 17 Aug. 1928; fmr. manual worker and factory executive; produced journal La Cassette; lauréat de la Soc. des gens de lettres 1961; Grand Prix de Poésie de l'Académie française 1969 for Chateaux de millions d'années; Antonin-Artaud Prize and Prix Appollinaire for poems Les fêtes solaires; mem. l'Académie Goncourt. *Publications:* Alain et le nègre 1953, Le marchand de sable 1954, Le goût de la cendre 1955, Les fêtes solaires 1955, Boulevard 1956, Canard au sang 1958, Saint Vincent de Paul, Dédicace d'un navire 1959, La Sainte-Farce 1960, La mort d'un figuier 1962, Dessin sur un trottoir 1964, Les poisons délectables (poems) 1965, Le Chinois d'Afrique 1966, Dictionnaire de la mort 1967, Les châteaux de millions d'années (poems) 1969, Les allumettes suédoises 1969, Trois sucettes à la menthe 1972, Noisettes sauvages 1974, Histoire de la poésie française des origines à nos jours (2 vols.) 1975. *Address:* 23 rue Fantin Latour, Paris 16e, France.

SÁBATO, Ernesto; Argentine writer; b. 24 June 1911, Rojas; m. Matilde Kusminsky-Richter; two s.; ed. Universidad Nacional de la Plata; fmr. Dir. of Cultural Relations, Argentina; has lectured in following Univs.: Paris, Columbia, Berkeley, Madrid, Warsaw, Bucharest, Bonn, Milan, Pavia, Florence, etc.; mem. the Club of Rome, Ribbon of Honour, Argentine Soc. of Letters; Chevalier, Ordre des Arts et des Lettres de la République Française, Prize of the Inst. of Foreign Relations (Stuttgart) 1973, Grand Prize of Argentine Writer's Soc. 1974, Prix Meilleur Livre Etranger for Abaddon el Exterminador (Paris) 1977, Chevalier de la Légion d'honneur 1978. *Publications:* Uno y el Universo 1945, Hombres y Engranajes 1951, Heterdoxia 1953, El escritor y sus fantasmas 1963, Tres Aproximaciones a la Literatura de Nuestro Tiempo 1969 (essays); El Túnel 1947, Sobre Héroes y Tumbas 1961, Abaddon el Exterminador, El Angel de las Tinieblas 1976 (novels). *Address:* Severino Langeri 3135, Santos Lugares, Argentina. *Telephone:* 757-1373.

SABER, Mohieddin, PH.D.; Sudanese international official and former politician; b. 1919, Dalgo; ed. Cairo Univ., Bordeaux Univ., France, Sorbonne, Paris; Dir. Ministry of Social Affairs 1954; Lecturer in Anthropology, Cairo Univ. in Khartoum 1956-59; Editor-in-Chief El Esteglal and Sout El Sudan, daily papers 1955; Man. El Zaman daily paper 1957-59; UNESCO Expert and Head of Social Sciences Dept., Arab States Training Centre for Community Devt., Sirs el Layyan, Menoufia, Egypt 1959-68; mem. Constituent Assembly of Sudan 1968-69; Minister of Educ. 1969-72; Dir. Arab Literacy and Adult Educ. Org. (ARLO) 1973-75; Dir.-Gen. Arab League Educational, Cultural and Scientific Org. (ALECSO) 1975-; Perm. mem. Afro-Asian Writers' Assen.; Loyal Son of the Sudan Order 1971, Order of the Repub. (Egypt) 1970, Nat. Order (Chad) 1972.

Publications: Cultural Change and Community Development 1962, Researches in Community Development Programmes 1963, Local Government and Community Development in Developing Countries 1963, Nomad and Nomadism—Concepts and Approaches (with Dr. Lewis Meleka) 1966, Adult Education in the Sudan 1969, The New Educational System in the Sudan 1970, Studies on Issues Related to Development and Adult Education 1975, Adult Education ■■ Science (co-author) 1975; numerous studies and papers. *Address:* Arab League Educational, Cultural and Scientific Organization, 109 Tahrir Street, Dokki, Cairo, Egypt.

SABIN, Albert B(ruce), B.S., M.D.; American virologist; b. 26 Aug. 1906, Bialystok, Russia; s. of Jacob and Tilly Krugman Sabin; m. 1st Sylvia Tregillus (deceased) 1935, 2nd Jane Blach Warner (divorced) 1967, 3rd Heloisa Dunshee de Abranches 1972; two d.; ed. New York Univ.; Research Assoc. in bacteriology, New York Univ. Coll. of Medicine 1926-31; House Physician, Bellevue Hospital, New York City 1932-33; Fellow in Medicine, Nat. Research Council, Lister Inst. (England) 1934; Asst., Rockefeller Inst., N.Y.C. 1935-37, Assoc. 1937-39; Assoc. Prof. of Research Pediatrics, Univ. of Cincinnati Coll. of Medicine 1939-46, Prof. 1946-60, Distinguished Service Prof. 1960-70; Pres. Weizmann Inst. of Science 1970-72; Fogarty Scholar, Nat. Insts. of Health, U.S.A. 1973; Expert Consultant Nat. Cancer Inst. 1973-74; Distinguished Research Prof. of Biomedicine, Medical Univ. South Carolina 1974-; Consultant, Surgeon Gen., U.S. Army 1974-; Consultant to Asst. Sec. for Health, Dept. of Health, Educ. and Welfare (U.S.A.) 1975-77, WHO Advisory Panel 1975-; developer of oral polio vaccine; Medical Corps U.S. Army, Second World War; mem. U.S. Army Medical Research and Devt. Advisory Panel 1974-, Advisory Panel on Medical Research, Pan American Health Org. (Washington D.C.) 1973-76; mem. Nat. Acad. of Sciences (U.S.A.), American Acad. of Arts and Sciences (Fellow), A.A.A.S.; hon. ■■■ numerous acads. and socs.; numerous hon. degrees; Hon. Fellow, Royal Soc. of Health, London; Int. Antonio Feltrinelli Prize 1964, Lasker Award 1965, Royal Soc. of Health Gold Medal 1969, Nat. Medal of Science (U.S.A.) 1971, Distinguished Civilian Service Medal, U.S. Army 1973, Statesman in Medicine Award 1973, and numerous awards and honours for work in medical research. *Leisure interests:* foreign affairs, music, art, philosophy. *Address:* Medical University of South Carolina, Charleston, South Carolina 29403, U.S.A. *Telephone:* (803) 792-2165.

SABRI, Wing-Commdr. Ali; Egyptian air force officer and politician; b. 30 Aug. 1920; ed. Military Acad. and Air Force Acad.; fought in Palestine War 1948; Minister for Presidential Affairs, Egypt 1957-58, U.A.R. 1958-62; Pres. Exec. Council 1962-64, Prime Minister 1964-65; Vice-Pres. of Republic Oct. 1965-67; Sec.-Gen. Arab Socialist Union Oct. 1965-67, 1968-70; Deputy Prime Minister and Minister of Local Govt. June-Oct. 1967; Resident Minister for Suez Canal Zone Oct. 1967-68; Vice-Pres. of Egypt 1970-71; charged with treason and sentenced to death Dec. 1971; sentence later commuted to life imprisonment.

SACHER, Paul; Swiss musician; b. 28 April 1906, Basel; m. Maja Stehlin 1934; ed. Univ. and Conservatoire of Basel; founder of Basel Chamber Orchestra 1926, with Chamber Choir 1928; founder of Schola Cantorum Basiliensis 1933; conductor of Collegium Musicum Zürich 1941-; Dir. Basel Acad. of Music 1954-69; has conducted in almost all European countries; Hon. Pres. Assen. of Swiss Musicians; Hon. mem. I.S.C.M.; Dr. Phil. h.c. of Basel Univ.; Schönberg Medal 1953; Mozart Medal 1956, Litteris et artibus Medal 1st Class (Vienna) 1972. *Publications:* Articles in reports of Basel Chamber Orchestra, and book on Adolf Hamm (organist). *Leisure interests:* trees, gardening, books. *Address:* Schönenberg, 4133 Pratteln BL, Basel, Switzerland. *Telephone:* 061-815100.

SACHS, Robert Green, PH.D.; American professor of physics; b. 4 May 1916, Hagerstown, Md.; s. of Henry M. and Anna (Green) Sachs; m. 1st Selma Solomon 1941, 2nd Jean K. Woolf, 3rd Carolyn L. Wolf 1968; two s. three d., one step s. two step d.; ed. Baltimore City Coll., and Johns Hopkins Univ.; Research Fellow, George Washington Univ. 1939-41; Instructor, Purdue Univ. 1941-43; Section Chief, Ballistic Research Lab. Aberdeen (Md.) Proving Ground 1943-45; Dir. Theoretical Physics Div., Argonne National Lab. 1945-47; Assoc. Prof. of Physics, Univ. of Wisconsin 1947-48, Prof. 1948-64; Assoc. Dir. Argonne Nat. Lab. 1964-68; Prof. of Physics, Univ. of Chicago 1964-, Dir. Enrico Fermi Inst. 1968-73; Vice-Pres. Chair. A.A.A.S., Physics Section 1970-71; Dir. Argonne Nat. Laboratory 1973-79; Visiting Prof., Princeton Univ. 1955-56, Univ. of Paris 1959-60, Tohoku Univ., Japan Sept.-Nov. 1974; mem. Nat. Acad. of Sciences, Chair. Physics Section 1977-; Fellow, American Acad. of Arts and Sciences; Guggenheim Fellowship 1959-60; Hon. D.Sc. (Purdue Univ.) 1967, (Univ. of Ill.) 1977. *Publications:* Nuclear Theory 1953; numerous articles in scientific journals. *Leisure interest:* sailing. *Address:* The Enrico Fermi Institute, Univ. of Chicago, 5630 Ellis Avenue, Chicago, Ill. 60637; 5490 South Shore Drive, Chicago, Ill. 60615, U.S.A. (Home). *Telephone:* 312-753-8614 (Office); 312-752-2077 (Home).

SA'D, Farid Ali, B.SC.; Jordanian business executive and politician; b. 1908, Umm el Fahm, Palestine; s. of Ali Sa'd and Almaza Ownallah; m. Khadijeh Yousef Khalidi 1943; one s. three d.; ed. American Univ. of Beirut; Teacher 1928-35; District Gov., Palestine Govt. 1935-43; Dir. Arab Bank in Haifa 1943-48; mem. Board of Dirs. Jordan Tobacco Co. 1949-55, Pres. 1955-; Minister of Finance 1972-73; mem. Board of Trustees, American Univ. of Beirut, Univ. of Jordan. *Leisure interests:* sports, mainly walking. *Address:* Jordan Tobacco and Cigarette Co. Ltd., P.O. Box 59, Amman, Jordan. *Telephone:* 77112.

SADAT, Col. Mohamed Anwar El-; Egyptian army officer and politician; b. 25 Dec. 1918, Tala Dist., Menufia Governorate; s. of Mohamed El-Sadat; m. Jihan Sadat; one s. three d. (also three d. by previous marriage); ed. Military Coll.; commissioned 1938; fmr. Gen. Sec. Islamic Congress; participated in Officers' coup 1952; Editor Al Jumhuriya and Al Tahrir 1955-56; Minister of State 1955-56; Vice-Chair. Nat. Assembly 1957-60, Chair. 1960-68; Gen. Sec. Egyptian Nat. Union 1957-61; Chair. Afro-Asian Solidarity Council 1961; Speaker U.A.R. Nat. Assembly 1961-69; mem. Presidential Council 1962-64; Vice-Pres. of Egypt 1964-66, 1969-70; interim Pres. of Egypt Sept.-Oct. 1970, Pres. Oct. 1970-, Prime Minister 1973-74; proclaimed Military Gov.-Gen. March 1973; Pres. Council Fed. of Arab Repubs. 1971-; Chair. Arab Socialist Union 1970-, mem. Higher Council on Nuclear Energy 1975-; Sinai Medal 1974; awarded Nobel Prize for Peace (shared with Prime Minister Begin) 1978; Methodist Peace Prize 1978. *Publications:* Unknown Pages 1955, The Secrets of the Egyptian Revolution 1957, The Story of Arab Unity 1957, My Son, this is your Uncle Gamal 1958, The Complete Story of the Revolution 1961, For a New Resurrection 1963, In Search of Identity (autobiog.) 1978. *Address:* The Presidential Palace, Abdeen, Cairo, Egypt.

SADAWI, A. M. Suhail Al; Libyan oil executive; b. 1928, Beirut; ed. American Univ. of Beirut; with Gulf Oil Corpn., Libya 1958-61; Int. Labour Office, Geneva 1962-63; Head, Gen. Econ. Section, Org. of Petroleum Exporting Countries (OPEC) 1963; participated in negotiations for amendment of Libyan Petroleum Law 1965; mem. Pricing Comm., Libya 1967, Chair. 1968; Asst. Under Sec., Libyan Ministry of Petroleum 1968; Deputy Dir. Gen. Libyan Nat. Petroleum Corpn. 1968; Sec.-Gen. Org. of Arab Petroleum Exporting Countries 1970-73. *Address:* Arab Economists Petroleum Affairs (Consultants), P.O. Box 8840, Beirut, Lebanon. *Telephone:* 352319.

SADEK, Gen. Mohammed Ahmed; Egyptian army officer; ed. Frunze Military Academy, U.S.S.R.; served in Egyptian army, World War II, Palestine War 1948, Suez Campaign 1956; Mil. Attaché, Egyptian Embassy to Fed. Repub. of Germany 1964; Dir. of Studies, Mil. Acad., Cairo 1965-67; Dir. of Information, Army Intelligence Dept. 1967; Chief of Staff of the Army Sept. 1969; Minister of War and Mil. Production May 1971-72; Deputy Premier for Nat. Defence Jan.-Oct. 1972; mem. Supreme Council of the Armed Forces. *Address:* Ministry of War, Cairo, Egypt.

SADIE, Stanley John, M.A., PH.D., MUS.B.; British writer on music; b. 30 Oct. 1930, Wembley; m. 1st Adèle Bloom 1953 (died 1978); two s. one d.; m. 2nd Julie Anne McCormack Vertrees; ed. St. Paul's School, London, Gonville and Caius Coll., Cambridge; Prof. Trinity Coll. of Music 1957-65; Music Critic, The Times 1964-; Editor, The Musical Times 1967-, New Grove Dictionary of Music and Musicians 1970-, Master Musicians series 1976-; broadcaster on musical subjects; editor of 18th-century music; mem. Critics' Circle, Int. Musicological Soc., American Musicological Soc.; mem. Royal Musical Assen. *Publications:* Handel 1962, Mozart 1966, The Pan Book of Opera/The Opera Guide (with A. Jacobs) 1964, Beethoven 1967, Handel 1968, Handel Concertos 1973. *Leisure interest:* watching cricket. *Address:* 1 Carlisle Gardens, Harrow, Middx., HA3 0JX, England. *Telephone:* 01-907 6515.

SADLER, Donald Harry, O.B.E., M.A.; British astronomer; b. 22 Aug. 1908, Dewsbury, Yorkshire; s. of James W. Sadler and Gertrude Needham; m. Flora Munro McBain 1954; ed. Trinity Coll., Cambridge; entered H.M. Nautical Almanac Office 1930, Deputy Superintendent 1933, Superintendent 1936-71; Sec. Royal Astronomical Society 1939-47; Pres. Royal Inst. of Navigation 1953-55, Hon. mem. 1972; Gen. Sec. Int. Astronomical Union 1958-64; Vice-Pres. Council of Fed. of Astronomical and Geophysical Services 1966-68, Pres. 1968-70; Pres. Royal Astronomical Soc. 1967-69; retd. 1972. *Leisure interests:* bridge, chess. *Address:* 8 Collington Rise, Bexhill-on-Sea, Sussex, England. *Telephone:* Cooden 3572.

SADLI, Mohammad, M.SC., PH.D.; Indonesian politician; b. 10 June 1922; m. Saparinah Subali 1954; ed. Univs. of Gadjah Mada and Indonesia, Massachusetts Inst. of Technology, Univ. of California (Berkeley) and Harvard Univ.; Lecturer, later Prof. of Econs., Univ. of Indonesia 1957-, Army Staff Coll. 1958-65, Navy Staff Coll. 1958-65; Dir. Inst. of Econ. and Social Research, Faculty of Econs., Univ. of Indonesia 1957-63; Asst. to Pres., Univ. of Indonesia 1963-64; mem. Gov. Council, UN Asian Inst. of Devt. and Planning 1963-64; Chair. Indonesian Economists Assn. 1966-72; Chair. Tech. Cttee. for Foreign Investment 1967-73; Minister of Manpower 1971-73, of Mines 1973-; Chair. Board of Govt. Commrs. PERTA-MINA State Oil Co. 1973-; mem. U.N. Group on Multinational Cos. 1973-74. *Leisure interests:* reading, golf, bowling. *Address:* Ministry of Mines, Merdeka Selatan 18, Jakarta; Brawijaya IV, 24 Kebayoran Baru, Jakarta-Selatan, Indonesia (Home). *Telephone:* 50232 (Office); 772599 (Home).

SADOVE, A. Robert, PH.D.; American international finance official; b. 8 Sept. 1921, Lake Placid, N.Y.; m.; one s. three d.; ed. Harvard Univ.; Staff economist, Gass, Bell and Associates (Consulting Economists) 1950-56; Adviser, German-Israel Reparations Mission, Cologne 1952-53; Industrial Devt. Adviser, Govt. of Israel 1953-54; Asst. Prof. of Economics, George Washington Univ. 1954-56; Economist, Transportation Div., Public Utilities Div. and Economics Dept. IBRD 1956-62, Economic Adviser Projects Dept. 1962-68; Dir. Transportation Projects Dept. and Acting Dir. Tourism Projects Dept. 1968-69, Special Projects Dept. IBRD 1969-72, Urban Projects Dept. 1972-74, Special Studies, East Asia and Pacific 1974-, Special Operations, Office of the Vice-Pres. Projects Staff 1975-. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W. Washington, D.C. 20433, U.S.A.

SADOVSKY, Mikhail Aleksandrovich; Soviet physicist; b. 6 Nov. 1904, St. Petersburg (now Leningrad); ed. Leningrad Polytechnical Inst.; Scientific Worker, U.S.S.R. Acad. of Sciences Seismological Inst. 1930-41; mem. staff Presidium U.S.S.R. Acad. of Sciences 1941-46; Deputy Dir. U.S.S.R. Acad. of Sciences Inst. of Chemical Physics 1946-63; Dir. U.S.S.R. Acad. of Sciences Schmidt Inst. of Earth Physics 1963-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-; mem. CPSU 1941-; Academician-Sec. U.S.S.R. Acad. of Sciences Section of Earth-Science 1966; Hero of Socialist Labour 1949; State Prize 1948, 1949, 1951, 1953; Lenin Prize 1962; Order of Lenin (four times), Order of October Revolution, and other decorations. *Address:* O. Y. Schmidt Institute of Earth Physics, B. Gruzinskaya ulitsa 10, Moscow, U.S.S.R.

SÁDOVSKÝ, Štefan, ING., C.SC.; Czechoslovak politician; b. 13 Oct. 1928, Vlkas; ed. Coll. of Economy, Bratislava; Sec. West Slovak Regional Cttee., CP of Slovakia 1962-66; Chair. West Slovak Regional Nat. Cttee. 1966-67; Deputy, Slovak Nat. Council 1966-; mem. Central Cttee. CP of Slovakia 1970; mem. Central Cttee. CP of Czechoslovakia 1966-; Candidate mem. Presidium Central Cttee. of CP of Czechoslovakia 1966-68; Sec. Central Cttee. CP of Czechoslovakia 1967-68; Chair. Agricultural Comm., Central Cttee. CP of Czechoslovakia 1967-69; Sec. Central Cttee. CP of Slovakia, mem. Secretariat of Central Cttee. CP of Slovakia 1968-69; mem. Central Cttee. Presidium 1968-70, First Sec. May 1969-Jan. 1970; mem. Secr. Cen. Cttee. CP of Czechoslovakia April-Aug. 1968, Oct. 1969-Jan. 1970, and mem. Exec. Cttee. of Presidium 1968-69; Premier of Slovak Socialist Republic Jan.-May 1969, Deputy Premier Feb. 1970-Dec. 1970; Deputy to House of Nations, Fed. Assembly 1968-71; Chair. Legislative Council, Govt. of S.S.R. 1970; mem. Legislative Council, Govt. of C.S.S.R. 1970; Chair. Slovak Govt. Council for Nat. Cttees. 1970-.

SADOVSKY, Vissarion Dmitriyevich; Soviet metallurgist; b. 6 Aug. 1908, Omsk; ed. Kazan State Univ.; Head of Laboratory, Zlatoust Instrumental Plant 1930-35; Research Worker, Head of Lab., Inst. of Metal Physics, U.S.S.R. Acad. of Sciences 1935-; Lecturer, Urals Polytechnical Univ. 1944-59, Prof. 1946; mem. U.S.S.R. Acad. of Sciences 1970-; Order of Lenin, Hero of Socialist Labour, Hammer and Sickle Gold Medal and other decorations. *Publications:* scientific works in the field of physical metallurgical science and the heat treatment of steel. *Address:* Institute of Metal Physics, Sverdlovsk, U.S.S.R.

SADRON, Charles Louis; French research scientist; b. 12 May 1902, Cluis, Indre; m. 1st Marie-Louise Eck 1931 (died), 2nd Geneviève Aubel; one d.; ed. Lycée de Chateauroux and Univs. of Poitiers and Strasbourg; Prof. at Lycées of Troyes 1927-28 and Strasbourg 1928-31; engaged on aeronautical research 1931-33; Rockefeller Scholar (Inst. of Technology Pasadena) 1933-34; research sponsored by Nat. Research Fund 1934-37; Prof. Univ. of Strasbourg, 1937-62, Muséum Nat. d'Histoire Naturelle, Paris 1962-75; Scientific Adviser to UNESCO 1946-47; Dir. Centre de Recherches sur les Macromolécules, Strasbourg 1947-67; Sec. Int. Comm. on Macromolecular Chemistry 1952-57; mem. Consultative Cttee. of Scientific and Technical Research 1958-60; Hon. Dir. Centre de Biophysique Moléculaire, Orléans; mem. Acad. Royale Scientifique, Liège; Lauréat de l'Institut; Fellow, New York Acad. of Science; Dr. h.c. Univs. of Montreal, Uppsala; Officier de la Légion d'honneur, Croix de guerre, Commdr. des Palmes Académiques. *Publications:* About 170 publications on magnetism, mechanics of fluids, physical chemistry of macromolecules, particularly biological macromolecules, biophysics. *Leisure interests:* music, hunting, fishing. *Address:* Centre de Biophysique Moléculaire, avenue de la Recherche Scientifique, 45045 Orléans 02, France. *Telephone:* (38) 63 10 14.

SADYKOV, Abid Sadykovich; Soviet chemist; b. 15 Nov. 1913, Tashkent, Uzbekistan; ed. Central Asia State Univ.; Teacher, Uzbek State Univ. 1939-41, Central Asia State Univ. 1941-46; Dir. Inst. of Chemistry, Uzbek Acad. of Sciences 1946-50; Rector, Tashkent State Univ. 1958-66; Prof. mem. Uzbek Acad. of Sciences 1947-, Pres. 1966-, Head of Section, Bio-organic Chem. 1973-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-72, mem. 1972-; mem. CPSU 1946-; mem. Cen. Cttee. CP of Uzbekistan; Hero of Socialist Labour 1973; Order of Lenin (four times), and other decorations. *Publications:* The Chemistry of Alkaloids 1956, Cotton Leaves as Valuable Chemical Raw Material 1967, Chemistry of Central Asian Flora 1973, Synthesis of Organic Preparations of the Pyridine Type 1974. *Address:* Uzbek S.S.R. Academy of Sciences, Ul. Kuibysheva 15, Tashkent, U.S.S.R.

SAELAND, Einar; Norwegian scientist; b. 3 April 1915, Trondheim; s. of the late Prof. Sem Saeland and Gudrun Schöning, M.D.; m. Elsebe Stoltenberg 1951; one s. one d.; ed. Oslo Univ. and Coll. de France; Research Chemist, Norsk Hydro 1939-42; Research Scientist, Norwegian Defence Research Establishment 1947-50; Research Scientist and Head of Isotope Dept., Netherlands-Norwegian Joint Establishment for Nuclear Energy Research 1951-57; Deputy Dir. OECD Nuclear Energy Agency (NEA) 1958-62, Deputy Dir.-Gen. 1962-64, Dir.-Gen. 1964-76. *Publications:* Scientific works on nuclear chemistry, radiation chemistry and application of radioactive isotopes. *Address:* Nuclear Energy Agency, 38 boulevard Suchet, 75016 Paris, France. *Telephone:* 524-96-50.

SAFDIE, Moshe, B.ARCH.; Canadian (b. in Palestine) architect; b. 14 July 1938, Haifa; s. of Leon Safdie and Rachael Esses; m. Nina Nusynowicz 1959; one s. one d.; ed. McGill Univ. Montreal, Canada; with Van Ginkle & Assocs., Montreal 1961-62; Louis I. Kahn, Philadelphia 1962-63; architect, planner Canadian Corpn. for 1967 World Exhbn. 1963; Moshe Safdie & Assocs., Montreal 1964-, commissioned to execute Habitat '67 1964; Visiting Prof. McGill Univ. 1970-71; Davenport Prof. of Architecture, Yale Univ. 1971-72; Lieut.-Gov. Gold Medal (Canada) 1961, Massey Medal for Architecture (Canada) 1969, A.R.I.A. Sinergy Award (U.S.A.) 1970. *Publications:* Beyond Habitat 1970, The Japan Architect 1970, The Coldspring Presentation 1972, Horizon 1973, For Everyone a Garden 1974. *Address:* 1315 de Maisonneuve boulevard W., Montreal, H3G 1M4, Quebec (Office); 1011 Habitat '67, Cité du Havre, Montreal 103, Quebec, Canada (Home). *Telephone:* 514-849-2381 (Office); 514-871-9549 (Home).

SAFFAR, Salman Mohamed al-, PH.D.; Bahraini diplomatist; b. 1931, Bahrain; m. ed. Baghdad Univ., Iraq and Sorbonne, Paris; Primary School teacher, Bahrain 1949-54, Secondary school teacher 1959-60; with Ministry of Foreign Affairs 1960-; Permanent Rep. to UN Sept. 1971-. *Address:* Permanent Mission of Bahrain at United Nations, 747 Third Avenue, New York, N.Y. 10017, U.S.A.

SAFRONCHUK, Vasiliy Stepanovich; Soviet diplomatist; b. 16 Feb. 1925, Lozovatka, Dnepropetrovsk region, Ukraine; ed. Moscow Inst. of International Relations; Lecturer, researcher at Moscow Inst. of Int. Relations 1955-59; First Sec. Counsellor at Soviet Embassy in U.K.; Deputy Chief Second European Dept. Foreign Ministry; Amb. to Ghana 1967-71; Deputy Perm. Rep. of U.S.S.R. to UN 1971-. *Address:* U.S.S.R. Permanent Mission of the UN, 136 East 67th Street, New York, N.Y. 10021, U.S.A.

SAGAN, Carl, PH.D., SC.D.; American scientist and author; b. 9 Nov. 1934, New York; s. of Samuel and Rachel Sagan; m. three s.; ed. Univ. of Chicago; Asst. Prof. of Genetics, Stanford Univ. Medical School 1962-63; Asst. Prof. of Astronomy, Harvard Univ., and Astrophysicist, Smithsonian Astrophysical Observatory 1963-68; Dir. Lab. for Planetary Studies, Cornell Univ. 1968-, David Duncan Prof. of Astronomy and Space Sciences 1970-, Assoc. Dir. of Center for Radiophysics and Space Research 1975-; Visiting Assoc., California Inst. of Tech. 1971-72, 1976-77; Chair. Div. for Planetary Sciences, American Astronomical Soc. 1975-76, Astronomy Section of A.A.A.S. 1975-76; Editor-in-Chief ICARUS: International Jour-

nal of Solar System Studies 1968-; Vice-Chair. Working Group on Moon and Planets of Cttee. on Space Research (COSPAR) of ICSU 1968-75; mem. various advisory boards, NASA 1959-, Investigator of interplanetary missions 1962, 1971-72, 1976; mem. or Fellow Int. Astronomical Union, American Astronomical Soc., American Geophysical Union, American Physical Soc., Int. Acad. of Astronautics, Int. Soc. for Study of Origins of Life; NASA Medal 1972, 1977, Prix Galabert 1973, Campbell Award 1974, K. Roberts Prize 1974, Joseph Priestley Award 1975, Klumpke-Roberts Prize 1975, Pulitzer Prize 1978. *Publications:* Intelligent Life in the Universe 1966, Planets 1966, Planetary Exploration 1970, The Air War in Indochina 1971, UFOs: A Scientific Debate 1972, The Cosmic Connection 1973, Communication with Extraterrestrial Intelligence 1973, Mars and the Mind of Man 1973, Other Worlds 1975, The Dragons of Eden 1977, The Murmurs of Earth: The Voyager Interstellar Record 1978, Broc'as Brain 1979; 350 scientific papers and articles. *Address:* Laboratory for Planetary Studies, Center for Radiophysics and Space Research, Cornell University, Ithaca, N.Y. 14853, U.S.A. *Telephone:* (607) 256-4971, 4972.

SAGAN, Françoise (pseudonym of Françoise Quoirez); French writer; b. 21 June 1935; ed. Couvent des Oiseaux and Couvent du Sacré Coeur, Paris. Prix des Critiques for Bonjour tristesse 1954. *Publications:* Bonjour tristesse 1954, Un certain sourire 1956, Dans un mois, dans un an 1957, Aimez-vous Brahms . . . 1959, La chamade 1965, Le garde du coeur 1968, Un peu de soleil dans l'eau froide 1969, Des bleus à l'âme 1972, Il est des parfums (with Guillaume Hanoteau) 1973, Les merveilleux nuages 1973, Un profil perdu 1974, Réponses 1975, Des yeux de soie 1976; scenario for the ballet Le rendez-vous manqué (with Michel Magne); own film adaption of Dans un mois, dans un an; Dir. Les fougères bleues (film) 1976; *Plays:* Château en Suède 1959, Les violons parfois . . . 1961, La robe mauve de valentine 1963, Bonheur, impair et passe 1964, Le cheval évanoui 1966, L'écharde 1966, Un piano dans l'herbe 1970, Zaphorie 1973, Le lit défait 1977. *Address:* Editions Flammarion, 26 rue Racine, 75006 Paris, France.

SAGDEYEV, Roald Zinnurovich, D.SC.; Soviet physicist; b. 26 Dec. 1932, Moscow; ed. Moscow State Univ.; Research Worker, Inst. of Atomic Energy, U.S.S.R. Acad. of Sciences 1956-61; Head of Laboratory, Inst. of Nuclear Physics, Siberian Dept., Acad. of Sciences 1961-70, Inst. of High Temperature Physics of U.S.S.R. Acad. of Sciences 1970-73; Prof. Novosibirsk State Univ. 1964-; Dir. Inst. of Space Research 1973-; Corresp. mem. U.S.S.R. Acad. of Sciences 1964, Academician 1968-; Order of October Revolution, Order of Red Banner, and other decorations. *Address:* U.S.S.R. Academy of Sciences, 14 Lenin Prospect, Moscow, U.S.S.R.

SAGET, Louis Joseph Edouard; French government official; b. 27 April 1915, Paris; m. Anne Vincens 1940; five c.; ed. Univ. de Paris; Mayor of Tananarive 1954-56; First Counsellor, French Embassy, Madagascar 1959-60; High Commr. in Comoro Islands 1960-62; Commissaire aux Comptes, European Launcher Devt. Org. 1963-66; Gov. of French Somaliland 1966-67; High Commr. in Djibouti 1967-69; Conseiller maître à la Cour des Comptes 1970-; Pres. Agence nationale pour l'amélioration de l'habitat 1971-78, Comm. de terminologie du ministère de la Défense 1973-; Investigator, Comité central d'enquête sur le coût et le rendement des services publics 1974-; Officier Légion d'honneur, Croix de guerre, Commdr. de l'Etoile noire, Commdr. de l'Ordre nat. Malgache, Grand Commdr. of the Order of the Star of Ethiopia, Commdr. de l'Etoile equatoriale de Gabon, Nat. Order of Upper Volta, Order of the Leopard of Zaire. *Leisure interest:* nature. *Address:* 13 rue Cambon 75001 Paris (Office); 1 rue de Laborde, 91660 Méréville, France (Home).

SÁGHY, Vilmos, EC.D.; Hungarian economist and politician; b. 9 Jan. 1922, Győrzámoly, Győr County; s. of Zsigmond Sághy and Rozália Pécsi; m. Ágnes Kertész 1949; two s. ed. Econ. and Tech. Acad. and Univ. of Agronomy; began career as Head of Div. in ■ company; First Asst. in Econ. and Tech. Acad.; various posts in party admin. 1952-54; Deputy Minister of Food 1954-63; Vice-Pres. Nat. Planning Office 1963-67; First Deputy Minister of Agric. and Food 1967-70; First Deputy Minister, then Sec. of State for Internal Trade 1970-76, Minister 1976-; recipient of several Hungarian and foreign awards. *Leisure interests:* handicrafts, gardening. *Address:* Ministry of Internal Trade, Vigado-utca 6, Budapest V, Hungary. *Telephone:* 185-044.

SAHAY, Bhagwan, B.SC.; Indian civil servant and diplomatist; b. 15 Feb. 1905; ed. Univ. of Allahabad and School of Oriental Studies, London; joined Indian Civil Service 1929; District Magistrate 1935-37; Deputy Sec. Industries Dept., United Provinces 1937-39, Commr. Census Operations 1939-41; Sec. Indian Council of Agricultural Research, New Delhi 1941-43; Joint Sec. Dept. of Agriculture, Govt. of India 1944-45; Commr. of Food and Civil Supplies 1946-49; Chief Sec., United Provinces 1949-51; Chief Commr. of Himachal Pradesh 1951-52, of Bhopal State 1952-54; Amb. to Nepal 1954-59; Chief Commr. of Delhi 1959-63; Lieut.-Gov. of Himachal Pradesh 1963, then Kerala; Gov. of Jammu and Kashmir 1967-73; Padma Bhushan 1961. *Address:* c/o Office of the Governor, Srinagar, Jammu and Kashmir, India.

SAHEKI, Isamu, LL.B.; Japanese transport executive; b. 25 March 1903, Ehime Prefecture; s. of Genzaburo and Yoshi Saheki; m. Chiyoko Nagai 1932; one s. three d.; ed. Tokyo Imperial Univ.; Exec. Kinki Nippon Railway Co. 1925-, Sr. Man. Dir. 1947-51, Pres. 1951-73, Chair. 1973-; Chair. Kintetsu Business Group-Kintetsu Miyako hotels, Kinki Nippon Tourist Co., Kintetsu Motors Co., Kintetsu Dept. Stores; Pres. Osaka Chamber of Commerce and Industry; Vice-Pres. Fed. of Econ. Orgs.; Adviser Japan Airlines; founder of Yamato Bunka-Kan Museum; Blue Ribbon Medal. *Leisure interests:* Kiyomoto (Japanese music), Bunraku, golf. *Address:* 2-1-4 Tomigaoka, Nara City, Japan, 631 (Home). *Telephone:* 0742(45)4550.

SAHGAL, Mrs. Nayantara; Indian writer; b. 10 May 1927, Allahabad; d. of Ranjit Sitaram and Vijaya Lakshmi Pandit; m. Gautam Sahgal 1949 (divorced 1967); one s. two d.; ed. Wellesley Coll., U.S.A.; Scholar-in-Residence, holding creative writing seminar, Southern Methodist Univ., Dallas, Texas 1973, 1977; Adviser English Language Board, Sahitya Akademi (Nat. Acad. of Letters), New Delhi; Fellow, Radcliffe Inst. (Harvard Univ.) 1976. *Publications:* Prison and Chocolate Cake 1954, A Time to be Happy 1958, From Fear Set Free 1962, This Time of Morning 1965, Storm in Chandigarh 1969, History of the Freedom Movement 1970, The Day in Shadow 1972, A Situation in New Delhi 1977. *Leisure interests:* reading (novels, politics, philosophy), music (Indian, Western, Classical), walking. *Address:* 10 Massey Hall, Jai Singh Road, New Delhi 110001, India.

SAHLOUL, Ali Ahmed, B.SC.; Sudanese diplomatist; b. 22 Nov. 1930, Suakin; m.; two c.; ed. London School of Econs.; Third Sec. in New Delhi 1956-58; served in Econ. Section of Foreign Ministry 1958-64, Head of Section 1961-64; First Sec. at Embassy, Cairo 1964-65; Amb. to India and non-resident Amb. to Sri Lanka, Malaysia, Indonesia 1972, to Belgium, to the Netherlands and the EEC 1977; Dir. of Dept. for Socialist Countries, Ministry of Foreign Affairs 1970-71; Under Sec. of Ministry of Planning 1971-72; Dep. Perm. Rep. to UN 1965-70, Perm. Rep. to UN Office, Geneva 1975-77, Permanent Rep. to UN 1978-; Chair. of Sudanese Del. to Second Negotiating Conference on the Common Fund of the Integrated Programme for Commodities 1977. *Address:* Permanent Mission of Sudan to the United Nations, 757 Third Avenue, 14th Floor, New York, N.Y. 10017, U.S.A.

SAHM, Heinz-Ulrich, DR.JUR.; German diplomatist; b. 13 Oct. 1917, Bochum; s. of Heinrich and Dora (née Rolffs) Sahm; m. Insea Hohlt 1949; four s. two d.; ed. Städtisches Gymnasium, Danzig, Kaiserin-Augusta-Gymnasium, Berlin, Klosterschule Roszleben and Univs. of Munich, Kiel and Freiburg; joined diplomatic service 1951; Amb. to U.S.S.R. 1972-77, to Turkey 1977-. *Address:* Embassy of the Federal Republic of Germany, Ankara, Atatürk Bulvari 116, Turkey.

SAID, El-Said Mostafa El-, LL.B., LL.D.; Egyptian lawyer and professor; b. 7 Oct. 1908; ed. Mansourah Secondary School and Cairo Univ.; Public Prosecutor 1929-38; Lecturer and Asst. Prof. of Criminal Law, Cairo Univ. 1932-42; Prof. of Criminal Law, Alexandria Univ. 1942; Dean of Faculty of Law, Alexandria Univ. 1946; Attorney-Gen., Alexandria Court of Appeal 1949; Prof. of Criminal Law, Cairo Univ. 1950, Dean of Faculty of Law, Cairo Univ. 1952; Rector of Alexandria Univ. 1954-58; Rector of Cairo Univ. 1958-61; Amb. to Portugal 1962-64, to Somalia 1964-68, to German Democratic Repub. 1972-77; Chair. of Supreme Council of the Univs. *Publications:* On the Scope and Exercise of Marital Rights 1936, The Egyptian Penal Code Annotated, 3rd edition 1937, Crimes of Forgery Under the Egyptian Law, 4th edition 1953, Principles of Criminal Law, 4th edition 1962, The Expansion of Higher Education in the United Arab Republic 1960, International Study of University Admissions, the United Arab Republic 1962. *Address:* c/o Ministry of Foreign Affairs, Cairo, Egypt.

SAID, Faisal al-; Omani diplomatist; b. 1927, Muscat; attached to Ministry of Foreign Affairs, Muscat 1953-57; lived abroad 1957-70; Perm. Under-Sec. Ministry of Educ. 1970-72; Minister of Econ. Affairs 1972; Perm. Rep. to UN, Amb. to U.S.A. 1972-73; Minister of Educ. 1973-76, of Omani Heritage 1976-. *Address:* Ministry of Omani Heritage, Muscat, Oman.

SAID, Hakim Mohammed; Pakistani physician; b. 9 Jan. 1920; s. of late Hakim Abdul Majeed; ed. Ayurvedic and Unani Tibbia

(Medical) Coll., Delhi; Founder, Sec.-Gen. Soc. for Promotion of Eastern Medicine 1956; Founder, Pres. Coll. of Eastern Medicine, Karachi 1958; Pres. Inst. of Health and Medical Research, Hamdard Nat. Foundation, Soc. for the Promotion and Improvement of Libraries, Hamdard Acad., Pakistan Historical Soc., Ibn-i-Khaldun Educ. Soc.; Chair. Hamdard Waqf Labs.; organized Health of the Nation Conf., Karachi 1971, formed Nat. Health Cttee.; Consultant mem. Tech. Devt. Board, Union Int. d'Education pour la Santé, Paris until 1976; mem. numerous socs.; participant, organizer many int. confs. and congresses; Sitara-i-Imtiaz (Award for Social and Educ. Service, Govt. of Pakistan) 1966, Sadiq Dost (Award from people of Bahawalpur). *Publications include:* Medicine in China, Europe Nama, Germany Nama, Wonders of the Human Body, Health of the Nation, The Employer and Employee, Tazkàr-i-Muhammad, Pharmacopoeia of Eastern Medicine, Main Currents of Contemporary Thought in Pakistan (2 vols.), Maqalat-i-Sham-i-Hamdard, Maqalat-i Ibn al-Haitham, Pharmacographia Indica. *Address:* Hamdard National Foundation, Hamdard Centre, Nazimabad, Karachi 18 (Office); Hamdard Manzil, 58/1 Shikarpur Colony, New Town, Karachi 5, Pakistan (Home).

SAIF AL-ISLAM, Mohamed al-Badr, H.R.H.; fmr. Imam of the Yemen; b. 1927; ed. Coll. for Higher Education, Sana'a (Yemen); Minister for Foreign Affairs 1955-61, and Minister of Defence and C.-in-C. 1955-62; succeeded to Imamate on the death of his father, Imam Ahmed Sept. 1962; in hills, Yemen, leading Royalist Forces in civil war 1962-68; replaced by Imamate Council May 1968; in exile in Saudi Arabia 1968-. *Address:* Jeddah, Saudi Arabia.

SAIFUDIN; Chinese (Uighur) politician; b. 1916, Artush, Sinkiang; ed. Cen. Asia Univ., Moscow; Leader of Uighur Uprisings 1933, 1944; Minister of Educ., E. Turkistan Repub. 1945; Deputy Chair. Sinkiang People's Govt. 1949-54, Chair. 1955-68; Deputy Commdr. Sinkiang Mil. Region, People's Liberation Army 1949; Second Sec. CCP Sinkiang 1956-68; Alt. mem. 8th Cen. Cttee. of CCP 1956; Pres. Sinkiang Univ. 1964; Vice-Chair. Sinkiang Revolutionary Cttee. 1968, Chair. 1972-78; mem. 9th Cen. Cttee. of CCP 1969; Second Sec. CCP Sinkiang 1971, First Sec. 1973-78; Alt. mem. Politburo, 10th Cen. Cttee. of CCP 1973; Political Commissar Sinkiang Mil. Region, PLA 1974-78; Alt. mem. Politburo, 11th Cen. Cttee. of CCP 1977; Exec. Chair. Presidium 5th Nat. People's Congress; Vice-Chair. Cttee. 5th Nat. People's Congress 1978-. *Address:* People's Republic of China.

SAINER, Leonard, LL.B.; British solicitor and business executive; b. 12 Oct. 1909, London; s. of Archer and Sarah Sainer; ed. Central Foundation School, University Coll., London; Sr. Partner, Titmuss, Sainer and Webb (solicitors); Chair. Sears Holdings Ltd. and principal subsidiaries, including: Lewis Investment Trust Ltd., Selfridges Ltd., Mappin and Webb Ltd., British Shoe Corpn. Ltd.; Chair. United Real Property Trust Ltd., Dir. First Nat. Finance Corpn. Ltd. *Address:* Sears Holdings Ltd., 40 Duke Street, London, W1M 6AN; Titmuss, Sainer and Webb, 2 Serjeants' Inn, London, EC4Y 1LT; 15 Chesterfield House, South Audley Street, London, W.1, England (Home).

SAINSBURY, Baron (Life Peer), cr. 1962, of Drury Lane; **Alan John Sainsbury;** British retail executive; b. 13 Aug. 1902; s. of John Benjamin and Mabel Miriam Sainsbury; m. 1st Doreen Davan Adams 1925 (dissolved), three s.; m. 2nd Anne Elizabeth Lewy 1944, one d.; ed. Haileybury School; J. Sainsbury Ltd. (grocery and provision firm) 1921-, Chair. 1956-67, Joint Pres. 1967-; mem. Williams' Cttee. on Milk Distribution 1947-48, Food Research Advisory Cttee. 1960-70, (Chair. 1965-70), Econ. Devt. Cttee. for the Distributive Trades (N.E.D.C.) 1964-68, Exec. Cttee. PEP 1970-76; Vice-Pres. Royal Soc. for Encouragement of Arts, Manufacturers and Commerce 1962-66, The Assen. of Agriculture 1965-73; Pres. Grocer's Inst. 1963-66, Dir. 1966-; Pres. Pestalozzi Children's Village Trust 1963-, Multiple Shops Fed. 1963-65, Royal Inst. Public Health and Hygiene 1965-70; Chair. Cttee. of Inquiry into relationship of pharmaceutical industry with Nat. Health Service 1965-67; mem. Labour Party 1945-; mem. Court of Univ. of Essex 1966-76; Gov. City Literary Inst. 1967-69; Pres. Distributive Trades Educ. and Training Council 1975-; Chair. of Trustees, Overseas Students Advisory Bureau, Uganda Asian Relief Trust 1972-74; mem. Council English Stage Co. 1975-, Writers and Scholars Educational Trust 1975-; mem. House of Lords Select Cttee. on European Communities; Hon. Fellow, Inst. of Food Science and Technology. *Address:* J. Sainsbury Ltd., Stamford House, Stamford Street, London, S.E.1, England. *Telephone:* 01-928-6775.

SAINT BRIDES, Baron (Life Peer), cr. 1977, of Hasguard in the County of Dyfed; **(John) Morrice (Cairns) James,** P.C., G.C.M.G., C.V.O., M.B.E.; British diplomatist; b. 30 April 1916; s. of Lewis Cairns James; m. 1st Elizabeth Piesse (died 1966), 2nd Geneviève Sarasin 1968; one s. two d.; ed. Bradfield, Oxford Univ.; joined Dominions Office 1939; Royal Navy, Royal Marines Second World War; staff of U.K. High Comm. in S. Africa 1946-47; Commonwealth Relations Office, London 1947-52; Deputy U.K. High Commr., Lahore 1952-53, Karachi 1955-56; Deputy U.K. High Commr., India 1958-61, U.K. High Commr., Pakistan 1961-65; Deputy Under-Sec. of State, Commonwealth Office, London 1966-68, Perm. Under-Sec. of State 1968; High Commr. to India 1968-71; High Commr. to Australia 1971-76; King of Arms of the Most Distinguished Order of Saint Michael and Saint George 1975. *Leisure interests:* travel, shooting, photography. *Address:* La Plotte, Cap Saint-Pierre 83990, Saint-Tropez, France.

ST. JOHN-STEVAS, Rt. Hon. Norman Antony Francis, P.C., M.P., F.R.S.L.; British politician, barrister, author and journalist; b. 18 May 1929; ed. Ratcliffe, Cambridge, Christ Church, Oxford and Yale; Barrister, Middle Temple 1952; Lecturer, King's Coll., London 1953-56; Tutor in Jurisprudence, Christ Church, Oxford 1953-55, Merton Coll., Oxford 1955-57; Founder mem. Inst. of Higher European Studies, Bolzano 1955; Legal Adviser to Sir Alan Herbert's Cttee. on Book Censorship 1954-59; Legal and Political Corresp., The Economist 1959-64; Conservative M.P. for Chelmsford 1964-; Sec. Conservative Party Home Affairs Cttee. 1969-72; mem. Fulbright Comm. 1961; Parl. Select Cttee. Race Relations and Immigration 1970-72; Parl. Under-Sec. for Educ. and Science 1972-73; Minister of State for the Arts 1973-74; mem. Parl. Select Cttee. on Race Relations and Immigration 1970-72, on Civil List 1971-; mem. Shadow Cabinet 1974-79, Shadow Leader of the House of Commons 1978-79, Opposition Spokesman on Educ. 1974-78, Science 1974-78 and the Arts 1974-79; Chancellor of the Duchy of Lancaster May 1979-; Minister for the Arts May 1979-; Vice-Chair.Cons. Parl. N. Ireland Cttee. 1972-; Vice-Chair. Cons. Group for Europe 1972-75; founder mem. Christian-Social Inst. of Culture, Rome 1969; Hon. Sec. Fed. of Conservative Students 1971-73; Editor The Dublin (Wiseman Review) 1961; Kt. Grand Cross St. Lazarus of Jerusalem 1963; Cavaliere Ordine al Merito della Repubblica (Italy) 1965, Commendatore 1978. *Publications:* Obscenity and the Law 1956, Walter Bagehot 1959, Life, Death and the Law 1961, The Right to Life 1963, Law and Morals 1964, The Literary Essays of Walter Bagehot 1965, The Historical Essays of Walter Bagehot 1968, The Agonising Choice 1971, The Political Essays of Walter Bagehot 1974, The Economic Works of Walter Bagehot 1978. *Leisure interests:* reading, talking, listening to music, travelling, walking. *Address:* 34 Montpelier Square, London, S.W.1, England. *Telephone:* 01-589 3001.

SAINT LAURENT, Yves (Henri Donat Mathieu); French couturier; b. 1 Aug. 1936, Oran, Algeria; s. of Charles Mathieu Saint Laurent and Lucienne Andrée Wilbaux, ed. Lycée d'Oran; career dedicated to haute couture; designer; partner and successor of Christian Dior 1954; shareholder Yves Saint Laurent S.A. 1962-; works include: costume sketches for Roland Petit's ballets Chants de Maldoror 1962, Adagio and Variations, Notre Dame de Paris 1965; sketches for costumes for le Mariage de Figaro (Compagnie Madeleine Renaud—Jean Louis Barrault) 1964, scenery and costumes for Zizi Jeanmaire's shows at the Alhambra 1962 and Théâtre National de Paris 1963, costumes for Edward Albee's A Delicate Balance (Théâtre de France) 1967; films: costumes for Luis Buñuel's Belle de Jour 1967, La Chamade (from the novel of Françoise Sagan) 1968, Alain Resnais' Stavisky; Oscars from Neiman-Marcus (Dallas) 1958 and Harper's Bazaar 1966. *Publication:* illustrated book La Vilaine Lulu 1967. *Address:* 5 avenue Marceau, 75016 Paris (Office); 55 rue de Babylone, 75007 Paris, France (Home).

SAITO, Eishiro; Japanese steel industry executive; b. 22 Nov. 1911, Niigata City; s. of Jooru and Jome Saito; m. Toshiku Kato 1939; one s. one d.; ed. Tokyo Imperial Univ.; joined Japan Iron and Steel Co. Ltd. 1941; Dir. Yawata Iron and Steel Co. Ltd. 1961, Man. Dir. 1962, Sr. Man. Dir. 1968; Sr. Man. Dir. Nippon Steel Corpn. 1970, Exec. Vice-Pres. 1973, Rep. Dir. and Pres. 1977-; Dir. Japan Iron and Steel Fed., The Kozai Club (Steel Materials Club); Vice Chair. Japan Iron and Steel Exporters' Assocn.; Sr. Dir. Japan Fed. of Econ. Orgs.; Vice Chair. Japan Cttee. of Econ. Devt.; Chair. Int. Iron and Steel Inst. 1977-; Blue Ribbon Medal 1967. *Leisure interests:* golf, "Go", reading. *Address:* Nippon Steel Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100, Japan; 135 Minami-Aoyama 5-chome, Minato-ku, Tokyo (Home). *Telephone:* (03) 242-4111.

SAITO, Kiyoshi; Japanese wood print artist; b. 1907, Fukushima Pref.; m. Fumiko Kamiya 1932; one d.; first specialized in oil painting and held many exhbns. in Japan; later turned to wood printing, often using Haniwa (Ancient Clay Image) as material; one-man exhbn. Corcoran Gallery of Art, Washington, D.C. 1957; numerous exhbns. throughout U.S.A. 1957-59; took part in Asia

and Africa Art exhbn. sponsored by Egyptian Govt. and won prize 1957; one-man exhbns. at Nordness Gallery, New York 1962, Sydney and Melbourne 1965, Fine Arts Gallery of San Diego 1969; two-man exhbn. Hawaii Museum 1964; awarded the Int. Biennial Exhbn. of Prints in Yugoslavia; awarded Prize for Japanese Artist at Int. Arts Exhbn., Brazil. *Address:* 1-23-14, Nishimikado, Kamakura City, Kanagawa Pref., Japan. *Telephone:* 0467-22-2170.

SAITO, Kunikichi; Japanese politician; b. 1909; specialized in welfare and medical affairs, Labour Ministry; mem. for Fukushima Prefecture, House of Representatives; Deputy Sec.-Gen. Liberal Democratic Party (LDP), Chair. House of Representatives Finance Cttee., Deputy Chief Cabinet Sec., Parl. Vice-Minister of Finance, Minister of Health and Welfare 1972-74, Sec.-Gen. of LDP Dec. 1978-. *Address:* House of Representatives, Tokyo, Japan.

SAITO, Nobufusa, D.SC.; Japanese atomic scientist; b. 28 Sept. 1916, Tokyo; m. Haruko Umeda 1944; one s. two d.; ed. Tokyo Imperial Univ.; fmr. Asst. Prof., Kyushu and Seoul Univs., Prof. of Inorganic Chem., Tokyo Univ. 1956-65; Chief Researcher, Inst. of Physical and Chemical Research 1959-76; fmr. Consultant to Int. Atomic Energy Agency (I.A.E.A.), Dir. of Isotopes Div. 1963-65; Prof. Inorganic and Nuclear Chem., Tokyo Univ. 1965-77, Dir. Radioisotope Centre 1970-77; Prof. Inorganic and Analytical Chem. Toho Univ. 1978-; Dir. Japan Radioisotopes Assn. 1967-; Technical Adviser, Japan Atomic Energy Research Inst. 1966-; mem. Chemical Soc. of Japan (Vice-Pres. 1976-78), American Chemical Soc., Atomic Energy Soc. of Japan, Japan Soc. for Analytical Chem., Pres. 1979-; Co-Editor Int. Journal of Applied Radiation & Isotopes; Chem. Soc. of Japan Award 1974. *Leisure interests:* music, travel. *Address:* 5-12-9, Koshigoe, Kamakura, Japan, 248. *Telephone:* 0467-31-3178.

SAITO, Shizuo; Japanese diplomatist; b. 1914, Tokyo; s. of Kichinosuke and Sanko Saito; m. Akiko Saito née Araki 1950; two s.; ed. Tokyo Imperial Univ.; Counsellor, London 1959-62; Minister in Bangkok 1962-63; Dir. UN Bureau 1963-64, Amb. to Indonesia 1964-66, to Australia 1970-74, concurrently to Fiji 1972-74 and to Nauru 1972-74; Perm. Rep. to UN 1974-76; Pres. Foreign Press Centre of Japan, Asia Pacific Assn.; Lecturer, Keio Univ.; Special Adviser to Prince Hitachi 1977-. *Publications:* Through the Window of the UN 1976, On the UN 1977, Private Papers on Japanese Occupation of Indonesia 1977. *Leisure interests:* painting, golf. *Address:* c/o Ministry of Foreign Affairs, Tokyo, Japan.

SAITO, Shoichi; Japanese automobile executive; b. 1 June 1908, Chikusa, Aichi-ken; s. of Yoshihiro and Taka Saito; m. Mitsu Kawamoto 1938; three s.; ed. Tohoku Univ.; Exec.; Vice-Pres. Toyota Motor Co. Ltd. 1967-72, Chair. 1972-; Dir. Toyota Motor Sales U.S.A. Inc. 1967-; Pres. Soc. of Automotive Engineers of Japan 1968-72, Japan Patent Assns. 1977-; Auditor Aichi Steel Works Ltd. 1960-, Aisin Seiki Co. Ltd. 1965-, Towa Real Estate Co. Ltd. 1971-, Toyoda Gosei Co. Ltd. 1972-, Toyoda Automatic Loom Works Ltd. 1973-; Hon. Blue Ribbon Medal 1970. *Leisure interests:* skating, tennis, golf, music. *Address:* Toyota Motor Co. Ltd., 1 Toyota-cho, Toyota-shi, Aichi-ken; 26 Takamine-cho, Showa-ku, Nagoya-shi, Aichi-ken, Japan 471 (Home). *Telephone:* 0565-28-2121 (Office).

SAKAMOTO, Isamu; Japanese business executive; b. 23 Oct. 1911; s. of Tanekichi and Fusa Sakamoto; m. Chizuko Takeuchi 1937; four c.; ed. Kyoto Univ.; Dir. and Man. Engineering Div. and Research and Devt. Labs., Sumitomo Electric Industries, Ltd. (SEI) 1958; Man. Dir. SEI 1961, Exec. Vice-Pres. May 1969, Pres. 1969-73, Chair. of Board Nov. 1973-; Chair. Nuclear Fuel Industries Ltd.; Dir. Meidensha Ltd., Sumitomo-3M Co. Ltd.; Chair. Japan-U.S. Soc. of Osaka; fmr. Chair. Int. Wrought Copper Council. *Address:* 5-3, 2-chome, Fujishirodai, Suita City, Osaka Pref., Japan. *Telephone:* 06-872-2837.

SAKATA, Michita; Japanese politician; b. 1916, Kyu-Shu; s. of Michio and Yo Sakata; m. Michiyo Sakata 1948; two s. two d.; ed. Tokyo Imperial Univ.; fmr. Private Sec. to Minister of Commerce and Industry; fmr. Parl. Vice-Minister for Transport; fmr. Minister of Health and Welfare; fmr. Minister of Education; mem. House of Reps.; Dir. Defence Agency 1974-76; Liberal Democrat. *Leisure interests:* music, painting. *Address:* Dai-ichi Gi-in-kaikan, 2-2-1, Nagato-cho, Chiyoda-ku Tokyo, Japan. *Telephone:* Tokyo 581-4877.

SAKHAROV, Andrey Dmitriyevich, D.PHIL.; Soviet nuclear physicist; b. 21 May 1921, Moscow; m. 2nd Yelena Bonner 1971; one s. one d.; ed. Moscow State Univ.; Physicist, P.N. Lebedev Physics Inst., Acad. of Sciences 1945-; mem. Acad. of Sciences of U.S.S.R. (Dept. of Nuclear Physics) 1953-; mem. American Acad. of Arts and Sciences 1969-, Nat. Acad. of Sciences 1972-; with Igor Tamm achieved important breakthrough in field of controlled nuclear fusion leading to devt. of Soviet hydrogen bomb; formed Human Rights Cttee. 1970; Eleanor Roosevelt Peace Award 1973, Cino del Duca Prize 1974, Reinhold Niebohr Prize, Univ. of Chicago 1974, Nobel Peace Prize 1975. *Publications include:* Progress, Peaceful Co-existence and Intellectual Freedom 1968, Sakharov Speaks 1974, My Country and the World 1975, Alarm and Hope 1979, and basic works on problems of theoretical physics. *Address:* U.S.S.R. Academy of Sciences, Leninsky prospekt 14, Moscow, U.S.S.R.

SAKURADA, Takeshi; Japanese textile executive; b. 17 March 1904, Hiroshima; s. of Sai and Naka Sakurada; m. Fumi Yokoyama 1932; two s. one d.; ed. Tokyo Univ.; Nisshin Spinning Co. Ltd. 1943-, Man. Dir. 1944-45, Pres. 1945-64, Chair. of Board 1964-70, Adviser 1970-; Dir. The Industry Club of Japan 1949-; Adviser Japan Broadcasting Co. Ltd. 1954-; Auditor Fuji Television Broadcasting Co. Ltd. 1967-; Dir. New Japan Radio Co. Ltd. 1959-, Toho Rayon Co. Ltd. 1966-; Promotor and Auditor Arabian Oil Co. Ltd. 1958-; mem. Public Security Comm. 1964-; Deputy Chair. Fiscal System Council 1965-75, Chair. 1975-; Chair. Toho Rayon Co. Ltd. 1969-; fmr. Pres. Japan Fed. of Employers' Assns. *Leisure interests:* oil painting, golf. *Address:* 8, 22-Kamiyamacho, Shibuya-ku, Tokyo, Japan.

SAKURAUCHI, Yoshio; Japanese politician; b. 1912; ed. Keio Univ.; mem. of House of Reps. Liberal Democratic Party (LDP); Minister of Int. Trade and Industry July 1964-65; Minister of Agric. and Forestry 1972-73, of Construction 1977-78; fmr. Chair. LDP Policy Affairs Council; Chair. House of Reps. Foreign Affairs Cttee. 1971. *Address:* c/o Ministry of Agriculture and Forestry, House of Representatives, Tokyo, Japan.

SALACROU, Armand Camille; French playwright; b. 9 Aug. 1899; ed. Faculty of Medicine, Faculty of Letters, Faculty of Law, Paris; thirty plays produced in Paris, first performance in Théâtre de l'Oeuvre 1925, first included in repertoire of Comédie-Française 1944; fmr. Pres. Société des Auteurs et Compositeurs Dramatiques; fmr. Pres. of Int. Theatre Inst. (UNESCO); mem. Acad. Goncourt; Commandeur de la Légion d'honneur. *Plays:* Le pont de l'Europe 1927, Atlas-Hotel 1931, Une femme libre 1934, L'inconnue d'Arras 1935, La terre est ronde 1938, Histoire de rire 1939, Les fiancés du Havre 1944, Les nuits de la colère 1946, L'Archipel Lenoir 1947, Les invités du Bon Dieu, Sens interdit 1953, Le miroir, Une femme trop honnête 1956, Boulevard Durand 1960, Comme les chardons 1964, etc. *Address:* Villa Maritime, 8 rue Guy de Maupassant, 76600 Le Havre, France.

SALAH, Abdulla A.; Jordanian diplomatist; b. 31 Dec. 1922; ed. Bishop Gobat's School, Jerusalem, and American Univ. of Beirut; Field Educ. Officer, UN Relief and Works Agency (UNRWA), Jordan 1952-62; Amb. to Kuwait 1962-63, to India 1963-64, to France 1964-66, 1967-70; Minister of Foreign Affairs Dec. 1966-67, 1970-72; Amb. to U.S.A. (also accred. to Mexico) 1973-; several decorations. *Address:* Embassy of Jordan, 2319 Wyoming Avenue, N.W., Washington, D.C., U.S.A.

SALAM, Abdus, M.A., PH.D., D.SC., F.R.S.; Pakistani university professor; b. 29 Jan. 1926, Jhang; ed. St. John's Coll., Cambridge and Govt. Coll., Lahore; Prof. of Mathematics, Govt. Coll., Lahore 1951-54; Head, Mathematics Dept., Panjab Univ., Lahore 1952-54; Lecturer, Univ. of Cambridge 1954-56; Prof. of Theoretical Physics, Imperial Coll. of Science and Technology, Univ. of London 1957-; mem. Pakistan Atomic Energy Comm. 1959, Pakistan Science Council 1962-, Chief Scientific Adviser to Pres. 1961-74; Gov., Int. Atomic Energy Agency 1962-63; Dir. Int. Centre for Theoretical Physics, Trieste 1964-; mem. UN Advisory Cttee. on Science and Technology 1964, Chair. 1971; Vice-Pres. IUPAP 1973; mem. Scientific Council Stockholm Int. Peace Research Inst. (SIPRI) 1970-; mem. London and American Physical Socs.; Fellow, Royal Swedish Acad. of Sciences 1970; Foreign mem. U.S.S.R. Acad. of Sciences, American Academy of Arts and Sciences; many awards including Atoms for Peace Award 1968. *Publications:* about 200 articles. *Address:* Department of Physics, Imperial College of Science and Technology, London, S.W.7, England; International Centre for Theoretical Physics, P.O. Box 586, 34100, Trieste, Italy. *Telephone:* 01-589-5111, ext. 2513; and Trieste 224281.

SALAM, Saeb; Lebanese politician; b. 1905, Beirut; s. of Selim and Koulthoum Salam; m. Tamima Mardam Bey 1945; three s. two d.; ed. American Univ. of Beirut, London School of Economics; elected Provisional Head, Lebanese Govt. 1943; Deputy 1943-47, 1951, 1960-; Minister of Interior 1946, 1960-61, 1970-73, of Foreign Affairs 1946; Prime Minister 1952, 1953, 1960-61, 1970-73, concurrently Minister of Defence 1961; mem. Nat. Dialogue Cttee. 1975; pioneer Lebanese civil aviation 1945, Pres. Middle East Airlines

Co., Beirut 1945-56; Pres. Nat. Fats and Oil Co. Ltd., Beirut. *Leisure interests:* hunting, swimming, reading, riding. *Address:* Rue Moussaitbé, B.P. 206, Beirut, Lebanon.

SALAN, Raoul Albin Louis; French army officer; b. 1899; ed. Coll. de St. Cyr; 2nd Lieut. 1919, Lieut. 1921, Capt. 1930, Commandant 1938, Lieut. Col. 1941; Head, Deuxième Bureau, French West Africa 1941-43; Col. 1943; Gén. de Brigade, commanding 9th Division of Colonial Infantry, later 14th Div. of Infantry 1944; Commdr. French troops in China and at Tongkin 1945-46; Gén. de Division, commanding Tongkin troops 1947; Commandant Supérieur, French troops in Far East 1948; Gén. de Corps d'Armée, C.-in-C. Indochina 1952-53; Inspector Gen., Land Defence 1953; mem. Conseil Supérieur de la Guerre et des Forces Armées 1955; Commdr. 10th Army District, Supreme Commdr., Algeria 1956-May 1958; Del. Gen. of French Govt., C.-in-C., Algeria May-Dec. 1958; Military Gov. of Paris 1959-60; in exile 1960-61; implicated in Algiers revolt April 1961, sentenced to death in absentia July 1961, captured in Algiers April 1962; sentenced to life imprisonment and stripped of military honours May 1962; granted pardon June 1968; Médaille militaire, Grand Croix de la Légion d'honneur, Croix de guerre (1914-18 and 1939-45), Croix de guerre T.O.E., C.B.E., D.S.C. (U.S.A.). *Publications:* Etude sur les langues "Lu" du Haut-Laos, memoirs Fin d'un Empire (4 vols.), Indochine Rouge, Le message d'Hô Chi Minh. *Address:* 41 boulevard Raspail, 75007 Paris, France.

SALAS, Rafael M., M.P.A., LL.B.; Philippine international administrator; b. 7 Aug. 1928, Bago, Negros Occidental; s. of Ernesto S. Salas and Isabel Montinola; m. Carmelita J. Rodriguez 1967; two s.; ed. Univ. of the Philippines, Harvard Univ.; Chair. Presidential Consultative Council of Students 1954; Univ. of the Philippines, Lecturer in Political Science and Econs. 1955-59, in Law 1963-66, Asst. Vice-Pres. 1962-63, mem. Board of Regents 1966-69; Asst. to Exec. Sec., Office of Pres. 1954-55; Tech. Adviser to Pres. 1956-57; Supervising Economist, Nat. Econ. Council 1957-60, Exec. Dir. (cabinet rank) 1960-61, Acting Chair. 1966, 1968; Special Asst. to Pres., Local Govts. 1961; Gen. Man. The Manila Chronicle 1963-65; Board Chair., Govt. Service Insurance System 1966; Action Officer Nat. Rice and Corn Sufficiency Prog. 1966-69; Nat. Projects Overall Co-ordinator and Action Officer 1966-69; Chair. Govt. Reorganization Comm. 1968-69; Exec. Sec. of the Philippines 1966-69; Exec. Sec. UNESCO Nat. Comm. of the Philippines 1957; Asst. Sec.-Gen. 2nd Asia Productivity Conf., Manila 1960; Adviser, Philippine Del., 17th, 18th, 19th Gen. Sessions of ECAFE (New Delhi 1961, Tokyo 1962, Manila 1963); Amb. to Indonesia, Merdeka Day 1967; Vice-Pres. UN Int. Conf. on Human Rights, Teheran 1968; mem. Philippine Del., 23rd Session UN Gen. Assembly 1968; Under Sec.-Gen., Exec. Dir. UNFPA (UN Fund for Population Activities) 1969-; Hon. Ph.D., D.H.I., LL.D.; many foreign orders; numerous awards incl. Management Man of the Year Award, Management Assn. of the Philippines 1966. *Publications:* People: An International Choice 1976, and numerous articles on govt. management and population issues. *Leisure interest:* reading. *Address:* UNFPA, United Nations Plaza, New York, N.Y. 10017, U.S.A.

SALAS, Xavier de, DR. EN FIL. Y LETRAS, LIC. EN DER.; Spanish art historian; b. 4 June 1907, Barcelona; s. of Francisco Javier de Salas y de Milans and of María Teresa Bosch Tintorer; m. María del Carmen de Ortueta 1940; three s. one d.; ed. Univs. of Madrid, Barcelona, Vienna and Berlin; Asst. Prof., Faculty of Philosophy and Letters, Barcelona 1931-40, Temp. Asst. Prof. of History of Art 1940-43, Prof. 1943-45; Prof. of History of Art, Univs. of Barcelona 1945-, and Madrid 1963-; Dir. Museo de Cataluña, Barcelona 1940-47; Deputy Dir. Cttee. of Museums of Barcelona 1940-47; Dir. Spanish Inst., London and Cultural Attaché, Spanish Embassy, London 1947-63, Hon. Attaché 1963-; Deputy Dir. Museo del Prado 1961-70, Dir. 1970-; mem. Real Academia de Buenas Letras de Barcelona 1943-56, Corresp. mem. 1956-; mem. Real Academia Artes de San Fernando 1967; corresp. mem. Hispanic Soc., New York and several Spanish acads.; hon. Academician, Royal Acad., London; Assoc. mem. Royal Flemish Acad. of Language and Literature; Pres. Spanish Cttee. of Int. Council of Museums (ICOM); Pres. Consultative Cttee. of ICOM 1971-74; Pres. Int. Cttee. of Art History 1973. *Publications:* Miguel Angel y El Greco 1967 and over 150 articles on painting and sculpture in learned journals. *Leisure interests:* driving and walking. *Address:* Pedro de Valdivia No. 4, Madrid 6, Spain; also Upper 5A Albany, Piccadilly, London, W.1, England.

SALATO, Esika Macu, C.B.E.; Fijian civil servant and international official; b. 1 May 1915; ed. Queen Victoria School and Central Medical School; medical practice 1935-74; Fiji Royal Naval Reserve Force 1943-46; Deputy Dir. Medical Services 1965-68, Dir. 1968-74; Mayor of Suva 1970; Acting High Commr. in U.K. and Rep. to EEC 1974; Sec.-Gen. South Pacific Comm. Oct. 1975-. *Address:* Secretariat, South Pacific Commission, Post Box D 5, Nouméa, New Caledonia.

SALAZAR LÓPEZ, H.E. Cardinal José; Mexican ecclesiastic; b. 12 Jan. 1910, Ameca, Guadalajara; ordained 1934; consecrated titular Bishop of Prusiade 1961; transferred to Zamora 1967; Archbishop of Guadalajara 1970-; created Cardinal by Pope Paul VI 1973; Pres. Mexican Episcopal Conf. 1973-. *Address:* Palacio Arzobispal, Apartado Postal I-331, Guadalajara, Jal., Mexico.

SALAZAR NAVARRETE, Fernando; Costa Rican diplomatist; b. 22 April 1930, San José; ed. Univ. de Costa Rica; Official Mayor, Univ. de Costa Rica 1958; Sec.-Gen. Juventud del Partido de Liberación Nacional (PLN) 1958-64; Deputy to Legislative Assembly 1962-66; Vice-Pres. Comm. of Int. Affairs, (PLN) 1967-68; Amb. to Colombia 1970-72; Vice-Minister of Foreign Affairs 1972-73; Perm. Rep. to UN 1973-78. *Address:* c/o Permanent Mission of Costa Rica to the United Nations, 211 East 43rd Street, Room 1002A, New York, N.Y. 10017, U.S.A.

SALCEDO-BASTARDO, José Luis; Venezuelan writer and diplomatist; b. 15 March 1926, Carípano, Sucre; s. of Joaquín and Catalina (née Bastardo) Salcedo-Arocha; m. María Cecilia Avila 1968; four s.; ed. Universidad Central de Venezuela, Univ. de Paris and London School of Economics; Teacher of Social Sciences 1945; Chief Ed. Revista Nacional de Cultura 1948-50; Asst. Lecturer, Universidad Central de Venezuela 1949; Founder Rector, Univ. of Santa María, Caracas 1953; Senator for State of Sucre mem. Senate Foreign Relations Cttee. 1958; Ambassador to Ecuador 1959-61, to Brazil 1961-63; Prof. of Sociology, Univ. Central de Venezuela 1964; Pres. Nat. Inst. of Culture and Fine Arts 1965-67; Vice-Pres., Supreme Electoral Council 1970-74; Amb. to France 1974-76; Sec.-Gen. to Presidency 1976-77; Minister of State for Science, Tech. and Culture 1977-78. *Publications:* Por el Mundo Sociológico de Cecilio Acosta 1945, En Fuga hacia la Gloria 1947, Visión y Revisión de Bolívar 1957, Biografía de Don Egidio Montesinos 1957, Tesis para la Unión 1963, Bases de una Acción Cultural 1965, Historia Fundamental de Venezuela 1970, La Conciencia del Presente 1971, Carabobo: Nacionalidad e Historia 1972, Bolívar: Un Continente y un Destino 1972, El Primer Deber 1973, Despolitizar la Historia: una tarea para el desarrollo 1973, De la Historia y los Deberes 1975. *Leisure interest:* travelling abroad. *Address:* Apartado Postal 2777, Caracas, Venezuela.

SALEH, Lt.-Col. Ali Abdullah; Yemeni army officer and politician; b. c. 1942; Security Chief, Taiz Province until June 1978; mem. Provisional Presidential Council, Deputy C.-in-C. of Armed Forces June-July 1978; Pres. of Yemen Arab Repub. and C.-in-C. of Armed Forces July 1978-. *Address:* Office of the President, Sana'a, Yemen Arab Republic.

SALEK, Lieut.-Col. Mustapha Ould; Mauritanian army officer and politician; Chief of Staff of Armed Forces 1968-69, March 1978; fmr. Dir. Société Nat. d'Import/Export (SONIMEX); Commdr. Third Mil. Region 1977; Head of State and Chair. Mil. Cttee. for National Recovery July 1978-. *Address:* Military Committee for National Recovery, Nouakchott, Mauritania.

SALEM, Gen. Mamdouh Muhammad; Egyptian police officer, administrator and politician; b. 1918, Alexandria; ed. Police Acad.; Police Commdr., Alexandria 1946-68; Gov. of Assiyut 1968-70, of Alexandria 1970; Deputy Prime Minister, Minister of the Interior 1971-75; Prime Minister 1975-78, also Minister of the Interior Feb.-Oct. 1977; Leader Arab Socialist Party 1975-78; mem. Higher Council for Nuclear Energy 1975. *Address:* c/o Office of the Prime Minister, Cairo, Egypt.

SALIFOU, Illa; Niger diplomatist; b. 17 Feb. 1932, Madaoua; s. of Salifou and Larba Mayaki; m. Bernadette Soares 1955; five s. two d.; ed. Univ. Inst. for Higher Int. Studies; Dir. Admin. and Legislative Div., Ministry of Justice 1960-61; First Sec., later Counsellor, Washington, D.C. until 1966; Dir. de Cabinet, Ministry of Foreign Affairs and Co-operation 1968-70, 1971-74, Technical Counsellor, Dir. Consular and Admin. Affairs 1970-71; Perm. Rep. to UN 1974-76; Amb. to U.S.A. 1974-76, to U.S.S.R., Poland, Romania, Yugoslavia, Czechoslovakia, India, German Democratic Republic 1976-79. *Leisure interests:* photography, music, reading. *Address:* c/o Embassy of Niger, 7-31 Kursovoi Per., Moscow, U.S.S.R. *Telephone:* 290-01-01.

SALIM, Khalil; Jordanian politician and banker; b. 1921, El-Husn; s. of Dalleh Salim; m. Mary Salfity; two s. four d.; ed. American Univ. of Beirut, Univs. of London and Columbia Univ.; Teacher in Secondary Schools 1941-49; Lecturer Teachers' Coll. 1950; Dir. Cultural Affairs 1952; Sec. Jordan Nat. Comm. for UNESCO 1950-58; Asst. Under-Sec. of Educ. 1955-62; Minister of

Social Affairs 1962; Minister of State, Prime Minister's Office 1962-63; Chair. Authority for Tourism and Antiquities 1962-63, Minister of Nat. Economy 1962-63; Gov. Cen. Bank of Jordan 1963-73; Chair. Board of Jordan Co-operation Union 1965-68; Amb. to France (also accred. to Belgium) 1974-78; mem. Jordan Devt. Board and mem. Board of Trustees Univ. of Jordan; Deputy Chair. ALIA; Chair. Gen. Insurance Corpn.; Sec.-Gen. Royal Scientific Soc.; Chair. Inst. of Banking Studies; Deputy Chair. Council of Scientific Research; mem. Higher Exec. Cttee. Jordanian Nat. Union. *Publications:* Reorganization of Educational Administration in Jordan 1960, 15 textbooks on mathematics and numerous articles on mathematics, popular science, education, economics and banking. *Leisure interests:* reading-writing, bridge. *Address:* c/o Ministry of Foreign Affairs, Amman, Jordan.

SALIM, Salim Ahmed; Tanzanian diplomatist; b. 1942, Zanzibar; ed. Lumumba Coll., Zanzibar and Univ. of Delhi; Publicity Sec. of UMMA Party and Chief Editor of its official organ Sauti ya UMMA 1963; Exec. Sec. United Front of Opposition Parties and Chief Editor of its newspaper; Sec. Gen. All-Zanzibar Journalists Union 1963; Amb. to United Arab Republic 1964-65; High Commr. to India 1965-68; Dir. African and Middle East Affairs Div., Ministry of Foreign Affairs 1968-69; Amb. to People's Repub. of China and Democratic People's Repub. of Korea June-Dec. 1969; Perm. Rep. to UN Feb. 1970-, also High Commr. to Jamaica, accred. to Guyana, Trinidad and Tobago, and Amb. to Cuba April 1971-; fmr. del. of Tanzania at UN Gen. Assembly and other int. confs. *Address:* Permanent Mission of Tanzania to the United Nations, 201 East 42nd Street, 8th Floor, New York, N.Y. 10017, U.S.A.

SALINGER, J(erome) D(avid); American author; b. 1 Jan. 1919; ed. Manhattan public schools and a military coll.; travelled in Europe 1937-38; army service with 4th Infantry Div. (Staff Sergeant) 1942-46; mem. Légion d'honneur. *Publications:* The Catcher in the Rye 1951, Franny and Zooey, Raise High the Roof Beam, Carpenters 1963 (novels), For Esmé with Love and Squalor (stories); numerous stories, mostly in the New Yorker 1948-. *Address:* c/o Harold Ober Associates Inc., 40 E 49th Street, New York, N.Y. 10017, U.S.A.

SALINGER, Pierre Emil George, B.S.; American journalist and politician; b. 14 June 1925, San Francisco; s. of the late Herbert Edgar Salinger and of Jehanne Bietry Carlson; m. 3rd Nicole Helene Gillmann 1965; three s. one d.; ed. Univ. of San Francisco; San Francisco Chronicle 1942-55; U.S. Navy Second World War; Press Officer, Calif., Stevenson for Pres. Campaign 1952, Richard Graves for Gov. (Calif.) 1954; West Coast Ed., Contributing Ed. Collier's Magazine 1955-56; Investigator, Senate Labor Rackets Cttee. 1957-59; Press Sec. to Senator John F. Kennedy 1959-61, to Pres. John F. Kennedy 1961-63, to Pres. Lyndon Johnson 1963-64; U.S. Senator from Calif. 1964-65; Dir. Nat. Gen. Productions 1965-; Vice-Pres. Nat. Gen. Corpn. 1965-, Continental Airlines 1965-68; Chair. Great America Management and Research Co. Int. (Gramco) 1968-, Deputy Chair. Gramco (U.K.) Ltd. 1970-71; Senior Vice-Pres. Amprop Inc. 1969; Roving Editor L'Express, Paris 1973-; Roving reporter in Europe for ABC (TV); lecturer at over 60 U.S. univs. and colls. 1965-69; Trustee, Robert F. Kennedy Memorial Foundation, American Coll. in Paris 1973-; Légion d'honneur 1978; Democrat. *Publications:* A Tribute to John F. Kennedy 1964, With Kennedy 1966, A Tribute to Robert F. Kennedy 1968, On Instructions of my Government 1971, For the Eyes of the President Only (novel) 1971, Je suis un américain 1975, La France et le nouveau monde 1976. *Address:* 248 rue de Rivoli, 75001 Paris, France (Home).

SALIS, Jean Rodolphe de, D. ès L.; Swiss professor; b. 12 Dec. 1901, Berne; m. Elsie Huber 1940; one s.; ed. Gymnase de Berne and Univs. of Montpellier, Berne, Berlin and Paris; corresp. of Der Bund in Paris 1930-35; syndic of the foreign press in Paris 1931-35; Prof. of History, Swiss Inst. of Technology, Zürich 1935-68; commentator of Radio Beromuenster ("Weltchronik") 1940-47; observer at First Gen. Assembly of UNESCO 1946; Prof. Univ. of Vienna, Summer 1947; mem. of University Comm. (Germany, British Zone) 1948; Del. to UNESCO Gen. Conf. 1954, 1960; Pres. Pro Helvetia Foundation 1952-64; Dr. h.c. (Geneva) 1959; Officier Légion d'honneur; Grosses Silbernes Ehrenzeichen Oesterreich. *Publications:* Sismondi, La vie et l'oeuvre d'un cosmopolite philosophe (2 vols.) 1932, Rainer Maria Rilkes Schweizer Jahre 1936, Giuseppe Motta, Dreissig Jahre Eidgenössiche Politik 1941, Fritz Wotruba 1947, Weltgeschichte der Neuesten Zeit, Vol. I 1951, Vol. II 1955, Vol. III 1960, Im Lauf der Jahre 1962, Weltchronik 1939-45, Schwierige Schweiz 1968, Grenzüberschreitungen, Ein Lebensbericht (Vol. I) 1975, (Vol. II) 1978. *Leisure interests:* music, theatre, hunting. *Address:* Schloss Brunegg, Aargau, Switzerland. *Telephone:* 56-11-44.

SALISBURY, Harrison Evans, B.A.; American journalist; b. 14 Nov. 1908; s. of Percy P. and Georgiana E. Salisbury; m. 1st Mary Hollis 1933 (divorced), 2nd Charlotte Rand 1964; two s.; ed. Univ. of Minnesota; United Press Int. 1930-48; Moscow Corresp., New York Times 1949-54, Nat. Affairs Editor 1961-63, Asst. Man. Editor 1964-72, Assoc. Editor 1972-; mem. American Acad. of Arts and Sciences 1969-, Nat. Inst. of Arts and Letters 1972- (Pres. 1975-76); Pulitzer Prize for Int. Correspondence 1955; George Polk Memorial Journalism Award 1958, 1967. *Publications:* Russia on the Way 1946, American in Russia 1955, The Shook-Up Generation 1959, To Moscow—and Beyond 1960, Moscow Journal 1961, A New Russia? 1962, The Northern Palmyra Affair 1962, Orbit of China 1967, Behind the Lines—Hanoi 1967, The Soviet Union: The 50 Years 1967, The 900 Days, The Siege of Leningrad 1969, The Coming War Between Russia and China 1970, The Many Americas Shall be One 1971, The Eloquence of Protest 1972, To Peking—and Beyond 1973, The Gates of Hell 1975, Travels around America 1976, Black Night, White Snow—Russia's Revolutions 1905-1917 1978. *Address:* The New York Times, 229 West 43rd Street, New York, N.Y. 10036; Box 70, Taconic, Conn. 06079, U.S.A. (Home). *Telephone:* (203) 824-7074 (Home).

SALK, Jonas Edward, B.SC., M.D.; American scientist; b. 28 Oct. 1914, New York; s. of Daniel Salk and Dora Press; m. 1st Donna Lindsay 1939 (dissolved 1968), 2nd Francoise Gilot 1970; three s.; ed. New York Univ. Coll. of Medicine and Coll. of New York City; Fellow in Chem., New York Univ. Coll. of Medicine 1935-36, Christian A. Herter Fellow 1936-38, Fellow in Bacteriology 1939-40; Intern, Mt. Sinai Hosp., New York 1940-42; Nat. Research Council Fellow, School of Public Health, Univ. of Michigan 1942-43, Research Fellow in Epidemiology 1943-44, Research Assoc. in Epidemiology 1944-46, Asst. Prof. 1946-47; Assoc. Prof. of Bacteriology, of Virus Research, School of Medicine, Univ. of Pittsburgh 1947-49, Dir. of Virus Research Lab. 1947-63, Research Prof. 1949-55; Commonwealth Prof. Preventive Medicine 1955-57; Commonwealth Prof. Experimental Medicine 1957-63; Dir. Salk Inst. for Biological Studies 1963-75, Resident Fellow 1963-, Founding Dir. 1975-; Consultant to Sec. of War in Epidemic Diseases 1944-47; Consultant to Sec. of Army in Epidemic Diseases 1947-54; specialist polio research; mem. American Epidemiological Soc., American Soc. for Clinical Investigation, Soc. for Experimental Biology and Medicine; Fellow of American Public Health Assen., American Assen. for the Advancement of Science, Assen. American Physicians, American Acad. of Arts and Sciences; Hon. Fellow, American Acad. of Pediatrics, Royal Soc. of Health, Weizmann Inst., Univ. of Calif., San Diego, All India Inst. of Med. Sciences; several hon. degrees; Jawaharlal Nehru Award for Int. Understanding 1976, and many other awards and prizes. *Publications:* Man Unfolding 1972, The Survivial of the Wisest 1973, and over 90 scientific papers. *Address:* The Salk Institute for Biological Studies, P.O. Box 1809, San Diego, Calif. 92112, U.S.A. *Telephone:* 714-453-4100.

SALLAL, Marshal Abdullah as-; Yemeni army officer and politician; b. 1917; ed. in Iraq; returned to Yemen from Iraq 1939; imprisoned 1939; Army Service 1940-48, 1955-67; imprisoned 1948-55; Gov. of Hodeida 1959-62; Chief of Staff to Imam Mohammed Sept. 1962; led coup against the Imam and proclaimed ■ repub. Sept. 1962; Pres. of the Revolutionary Council, Commdr.-in-Chief of the Republican forces, Yemeni Civil War 1962-67, concurrently Prime Minister 1962-67; deposed Nov. 1967; now living in Egypt.

SALLAM, Mohamed Abdulaziz, B.A.; Yemeni diplomatist; b. 15 Dec. 1933, Taiz; s. of Abdulaziz Mohamed Sallam; m. Maryam Ahmed al-Awami 1960; three s.; ed. secondary school in Helwan, Egypt, Stockbridge School, Mass. and Temple Univ., Philadelphia, Pa., U.S.A.; engaged in private sector 1960-61; Instructor, Belguis Coll. 1961-62; Dir.-Gen. Ministry of Public Health 1962-63; Minister and Chargé d'affaires, Embassy in Baghdad 1963-64; Deputy Minister of Foreign Affairs 1964-65; Chair. Board, Yemen Drug Co. 1965-66; Minister of Foreign Affairs 1966-67; Dir.-Gen. Office of the Prime Minister 1970-71; Amb. in Ministry of Foreign Affairs 1971-73; Minister with rank of Amb., Embassy in London 1973-74; Amb., Deputy Perm. Rep. to UN 1974-76, Perm. Rep. 1976-78; leader of dels. to various int. confs. incl. UN Gen Assembly 1965, Fifth Emergency Special Session, Fourth Summit Conf. of Arab League 1967. *Leisure interests:* chess, music. *Address:* c/o Ministry of Foreign Affairs, Sana'a, Yemen Arab Republic.

SALLÉ, Jean-Paul; French international civil servant; b. 16 March 1910, Raincy; s. of Gen. Gaston Sallé and Yvonne de La Marnierre; m. Françoise Cheysson 1934; one s. one d.; ed. Ecole Sainte-Geneviève, Versailles and Ecole Nationale Supérieure des Mines, Paris; Engineer, Ets. Skoda, Prague 1935; Dir. Franco-Yugoslav Bureau for Econ. Research 1939; Div. Chief in mil. govt. in Austria 1945; Adviser, IMF, Washington, D.C. 1946; Dir. IMF

European Office 1963; Assoc. Prof. Paris Univ. 1974; Croix de guerre. *Address:* 231 rue Saint-Honoré, 75001 Paris, France (Home).

SALLINGER, Rudolf; Austrian business executive; b. 3 Sept. 1916; ed. Technische Hochschule, Vienna; Proprietor of stonemason's firm, Vienna 1943-; Head of Guild of Stone-Masons, Vienna 1950, later Deputy Head of Fed. of Guilds; Chair. Trade Section, Chamber of Commerce, Vienna; Pres. Chamber of Commerce, Vienna 1960-64; Pres. Fed. of Chambers of Commerce 1964-; Pres. Austrian Nat. Cttee. for Int. Trade; mem. Nationalrat 1966-; Pres. Fed. Econ. Chamber 1966-; numerous decorations. *Address:* Bundeskammer der gewerblichen Wirtschaft, 1010 Vienna, Stubenring 12, Austria.

SALMAN, Salah, M.D., F.A.C.S.; Lebanese physician and government official; b. 24 Jan. 1936, Beirut; ed. American Univ. of Beirut School of Medicine, Johns Hopkins Univ. School of Medicine, U.S.A.; Minister of Public Health March-June 1972; Assoc. Prof. and Chair. of Dept of Otolaryngology, American Univ. of Beirut 1974-; Minister of the Interior, Housing and Co-operatives Dec. 1976-; Penrose Award, Faculties of Medical Sciences 1961. *Publications:* 19 papers in int. and local medical journals in otolaryngology and allied subjects. *Address:* Ministry of the Interior, Beirut; American University of Beirut; Lyon Street, Najjar Building, Beirut, Lebanon (Home).

SALMON, Baron (Life Peer), cr. 1972, of Sandwich, Kent; **Cyril Barnet Salmon,** P.C.; British judge; b. 28 Dec. 1903, London; s. of Montague Salmon and Marian Trevor; m. 1st Rencie Anderfelt 1929 (died 1942), 2nd Jean, Lady Morris 1946; one s. one d.; ed. Mill Hill and Pembroke Coll., Cambridge; called to the Bar, Middle Temple 1925, Master, Treasurer 1972, Hon. Fellow; Q.C. 1945; Judge, High Court of Justice, Queen's Bench Div. 1957-64; Lord Justice of Appeal 1964-72; Lord of Appeal in Ordinary 1972-; Chair. Royal Comm. on Standards of Conduct in Public Life 1974-76; Hon. D.C.L. (Kent) 1978. *Leisure interests:* fishing, golf. *Address:* 57 Westminster Gardens, Marsham Street, London, S.W.1; Manwood Place, Sandwich, Kent, England.

SALMON, Brian Lawson, C.B.E.; British business executive (retd.); b. 30 June 1917, London; s. of Julius Salmon and Emma Constance Gluckstein; m. Annette Wilson Mackay 1946; two s. one d.; ed. Malvern Coll.; joined J. Lyons & Co. 1935, Dir. 1961-, Joint Man. Dir. 1967-69, Deputy Chair. 1969-72, Chair. 1972-77; Vice-Chair. Board of Govs., Westminster Hospital Group 1963-74; a Vice-Chair. Royal Coll. of Nursing 1972; Chair. Cttee. on Sr. Nursing Staff Structure 1963-66, Camden and Islington Area Health Authority (Teaching) 1974-77; Chair. Supply Board Working Group, Dept of Health and Social Security 1977. *Leisure interests:* theatre, ballet. *Address:* 34 Kingston House North, Princes Gate, London, SW7 1LN, England. *Telephone:* 01-589 1382.

SALMON, Geoffrey Isidore Hamilton, C.B.E.; British businessman; b. 14 Jan. 1908, London; s. of Harry and Lena (née Gluckstein) Salmon; m. Peggy Rica (née Jacobs) 1936; two s. one d.; ed. Malvern Coll. and Jesus Coll., Cambridge; Hon. Catering Adviser to the Army 1959-71; Chair. J. Lyons & Co. Ltd. 1968-72, Pres. 1972-77. *Address:* 10 Stavordale Lodge, 12 Melbury Road, London, W14 8LW, England.

SALMON, Neil Lawson; British business executive; b. 17 Feb. 1921, London; s. of Julius and Mimi Salmon; m. Yvonne Helene Isaacs 1944; one s. one d.; ed. Malvern Coll., Institut Minerva, Zürich, Switzerland; joined J. Lyons and Co. Ltd. 1938, Dir. 1965-, Joint Man. Dir. 1967-69, Group Man. Dir. 1969-72, Deputy Chair. 1972-77, 1978-, Chair. 1977-78. *Leisure interests:* opera, ballet, theatre, wine, puzzles. *Address:* J. Lyons and Co. Ltd., Cadby Hall, London, W14 0PA, England. *Telephone:* 01-603 2040 (Ext. 2342).

SALMON, Robert; French journalist; b. 6 April 1918; ed. Lycée Louis le Grand, Ecole Normale Supérieure and at the Sorbonne; mem. Provisional Consultative Assembly 1944, First Constituent Assembly 1945; Founder Pres. and Dir. Gen. France-Soir 1944-; fmr. Pres. Soc. France-Editions (Elle, Le Journal de Dimanche, Paris-Presse, etc.), Hon. Pres. 1976-; fmr. Pres. Soc. de Publications Economiques (Réalités, Connaissance des Arts, Entreprise, etc.); Sec.-Gen. Féd. Nat. de la Presse 1951-; Hon. Pres. French Cttee. Int. Press Inst.; mem. Fondation Nationale des Sciences Politiques 1973-; Prof. Inst. d'Etudes Politiques, Univ. of Paris, etc. *Publications:* Le sentiment de l'existence chez Maine de Biran 1943, Notions élémentaires de psychologie 1947, L'organisation actuelle de la presse française 1955, Information et publicité 1956, L'Information économique, clé de la prosperité 1963. *Address:* 100 rue Réaumur, 75002 Paris, France.

SALMON, Sir Samuel Isidore, Kt., M.A.; British company executive; b. 18 Oct. 1900, London; s. of Sir Isidore and Lady Salmon; m. Lallah W. Benjamin; one s. one d.; ed. Bedales School and Jesus Coll., Cambridge; J. Lyons & Co. Ltd. (catering and food manufacturing business) 1922-, Dir. 1933-, Man. Dir. 1949-65, Chair. 1965-68, Pres. 1968-72; mem. London County Council 1949-65, Greater London Council 1965-67; Mayor of Hammersmith 1968; Vice-Chair. Metropolitan Water Board 1969, Chair. 1970-; Gov. Regent St. Polytechnic 1950-76. *Leisure interests:* reading, bridge, fishing. *Address:* 14 Carlos Place, London W.1, England. *Telephone:* 01-629 6217.

SALMON, Thomas P., LL.B., LL.M.; American lawyer and politician; b. 19 Aug. 1932, Cleveland, Ohio; s. of Thomas A. and Luch Conlon Salmon; m. 1958; one s. three d.; ed. Boston College, Boston College Law School, New York Univ. Law School; Judge of Municipal Court, Bellows Falls, Vermont 1963-65; mem. Vt. House of Reps. 1965-70; Minority leader, mem. House Rules Cttee., Chair., House Judiciary Cttee. 1969-70; Gov. of State of Vt. 1972-77; Chair. New England Govs.' Conf. 1974; State Co-Chair. New England Regional Comm. Jan. 1975; mem. Exec. Council Nat. Govs.' Conf. June 1974; mem. of American County and Local Bar Assn.; American Trial Lawyers Assn.; Democrat. *Leisure interests:* sports, music, hiking, cross-country skiing, golf. *Address:* 24 Atkinson Street, Bellows Falls, Vermont 05101, U.S.A. (Home). *Telephone:* 802-463-4234.

SALPETER, Edwin E., M.SC., PH.D.; American physicist and professor; b. 3 Dec. 1924, Vienna, Austria; s. of Jakob L. and Friedericke Salpeter; m. Miriam M. Mark 1950; two d.; ed. Sydney Boys' High School, Australia and Univ. of Birmingham, England; Dept. of Scientific and Industrial Research Fellow, Univ. of Birmingham, England 1948-49; Research Assoc., then Assoc. Prof., Cornell Univ., U.S. 1949-56, Prof. of Physics and Astrophysics 1956-71; J.G. White Distinguished Prof. of Physical Sciences 1971-; Visiting Prof. Australian Nat. Univ. 1954, Sydney Univ. 1960, Cambridge Univ. 1968; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc., Deutsche Akademie Leopoldina; Hon. D.Sc. (Chicago and Case Western Reserve Univs.). *Publications:* One book and over 100 scientific papers on quantum mechanics, plasma physics and theoretical astrophysics. *Leisure interests:* tennis, skiing, photography. *Address:* Laboratory of Nuclear Studies, Cornell Univ., Ithaca, N.Y. 14853 (Office); 116 Westbourne Lane, Ithaca, N.Y. 14850, U.S.A. (Home). *Telephone:* 607-256-3302.

SALT, George, SC.D., F.R.S.; British zoologist; b. 12 Dec. 1903, Loughborough; s. of Walter Salt and Mary Cecilia Hulme; m. Joyce Laing 1939; two s.; ed. Univs. of Alberta, Harvard and Cambridge; Entomologist with United Fruit Co., Repub. of Colombia 1926-27, with Imperial Inst. of Entomology 1928-31; Royal Soc. Moseley Research Student 1932-33; Fellow, King's Coll., Cambridge 1933-; Lecturer in Zoology, Cambridge Univ. 1937-65; Dean, King's Coll. 1939-45, Tutor for Advanced Students 1945-51; Reader in Animal Ecology, Univ. of Cambridge 1965-71; Visiting Prof. Univ. of Calif. 1966; Murchison Grant, Royal Geographical Soc. 1951; Fellow of Royal Soc. 1956; Pres. Cambridge Philosophical Soc. 1970-72. *Publications:* Experimental Studies in Insect Parasitism 1–16 1934-72, Ecology of Upper Kilimanjaro 1954, Defence Reactions of Insects to Metazoan Parasites 1963, Resistance of Insect Parasitoids to the Defence Reactions of their Hosts 1968, The Cellular Defence Reactions of Insects 1970, and numerous scientific papers. *Leisure interests:* mountaineering, gardening, calligraphy and illumination. *Address:* King's College, Cambridge; 21 Barton Road, Cambridge, CB3 9LB, England (Home). *Telephone:* 50411 (King's Coll.).

SALTZMAN, Charles Eskridge, B.S., B.A., M.A.; American investment banker; b. 19 Sept. 1903, Zamboanga, Philippines; s. of Major Gen. Charles McKinley Saltzman and Mary Eskridge Saltzman; m. 1st Gertrude Lamont 1931 (divorced), 2nd Cynthia Southall Myrick 1947 (divorced), 3rd Clotilde Knapp McCormick 1978; two s. (one deceased) two d.; ed. Cornell Univ., U.S. Military Acad., and Oxford Univ.; with New York Telephone Co., successively Commercial Engineer, Commercial Asst. Man., Commercial Man., Directory Production Man. 1930-35; with New York Stock Exchange 1935-49, beginning as Asst. to Exec. Vice-Pres., later Sec. and Vice-Pres.; on mil. leave of absence 1940-46; served as 2nd Lieut. Corps of Engineers, U.S. Army 1925-30; Commissioned 1st Lieut. New York Nat. Guard 1930, advanced to Lieut.-Col. 1940, on active duty in U.S. Army 1940-46; serving overseas 1942-46, Brig.-Gen. 1945; Major-Gen., retd.; on leave of absence from New York Stock Exchange for government service 1947-49; Special Asst. to Sec. of State 1947; Asst. Sec. of State in charge of occupied areas 1947-49; Gen. Partner, Henry Sears & Co. 1949-56 (on leave of absence for govt. service June 1954-Jan. 1955); Under-Sec. of State for Admin. June 1954-Jan. 1955; partner Goldman Sachs & Co. 1956-; Nat.

Pres. English-Speaking Union of United States 1961-66; awarded D.S.M. (U.S.), L.M. (U.S.), O.B.E. (U.K.), Croix de guerre (France), Bronze Medal (Italy), Ouissam Alouitte (Morocco), Cross of Merit (Poland), The War Medal (Brazil); Grand Officer, Order of the Crown of Italy. *Leisure interests:* travel, tennis. *Address:* 55 Broad Street, New York, N.Y. 10004 (Office); 30 East 62nd Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* (212) 676-8360 (Office); (212) 759-5655 (Home).

SALVADOR Y DIAZ-BENJUMEA, Lt.-Gen. Julio; Spanish air force officer and politician; b. 22 May 1910, Cádiz; s. of Luis and María Teresa; m. María Teresa Martínez Bidón 1939; four s. three d.; ed. Toledo Infantry Acad.; commissioned 1928, Lieut.-Col. 1945, Col. 1952, Brig.-Gen. 1963, Gen. of Div. 1966; fmr. Dir. Fighter Pilots' School; Military attaché (air), Washington; Dir. Military Air Acad.; Second-in-Command, Alto Estado Mayor; Minister of Aviation 1969-73; numerous military awards and medals. *Address:* c/o Ministry of Aviation, Madrid, Spain. *Telephone:* 243-24-20.

SALVETTI, Carlo; Italian physicist; b. 30 Dec. 1918, Milan; m. Piera Pinto 1951; two d.; ed. Univ. of Milan; fmr. Prof. of Theoretical Physics, Univ. of Bari; Dir.-Gen. Nuclear Study Centre, Ispra 1957-59; Dir. Int. Atomic Energy Agency (IAEA) Research Div. 1959-62; Gov. for Italy to IAEA 1962-64, 1968-70, Chair. Board of Govs. IAEA 1963-64; Chair. European Atomic Energy Soc. 1967-68, mem. EAES Council 1963-72; Chair. Euratom Scientific and Technical Cttee. 1969-70, mem. 1967-73; Chair. ENEA-OECD Steering Cttee. 1969-73; Chair. ANS, Italian Section 1971-75; Prof. of Gen. Physics, Univ. of Milan; Vice Pres., Italian Nat. Cttee. for Nuclear Energy (C.N.E.N.) 1964-; Vice-Chair. Italian Forum for Nuclear Energy (FIEN) 1965-; Chair. Italian Cttee. for Ind. Application of Radioisotopes (COMISOTOP) 1966-; Chair. Italian Nuclear Soc. (SNI) 1975-; mem. Board European Nuclear Soc. (ENS) 1975-; mem. Consultative Cttee. on Fusion (CCF) within Comm. of European Communities 1976-; Fellow, American Nuclear Soc. 1970-. *Address:* Viale Regina Margherita 125, CNEN, 00198 Rome, Italy. *Telephone:* 85282200.

SALZMAN, Herbert, B.A.; American diplomatist and company executive; b. 2 May 1916, New York, N.Y.; s. of William and Minnie (Reich) Salzman; m. Rita Fredericks 1947; two s.; ed. Yale Univ., Harvard Business School, Columbia Graduate School of Business; served in U.S. Navy (Ensign to Lieut.-Commdr.) 1941-46; Vice-Pres. Production, Standard Bag Corpn. 1946-55, Vice-Pres. Sales 1955-59, Pres. 1959-66; Asst. Admin., Agency for Int. Devt. (AID) 1966-71; Acting Pres. Overseas Private Investment Corpn. 1969-71, Exec. Vice-Pres. 1971-73, Dir. 1973-77; Dir. Kennedy Center Productions Inc. 1974-; Vice-Chair. and Trustee, Kennedy Center for the Performing Arts 1976-; Dir. Starwood Corpn. 1976-77; U.S. Amb. to OECD 1977-. *Publications:* How to Reduce and Manage the Political Risks of Investment in Less Developed Countries 1975. *Leisure interests:* skiing, tennis. *Address:* American Mission to the Organisation for Economic Co-operation and Development, 19 rue de Franqueville, 75016 Paris; 12 rue Weber, 75116 Paris, France (Home). *Telephone:* 524-9737 (Office); 500-4441 (Home).

SALZMAN, Pnina; Israeli pianist; b. Tel-Aviv; m. Igal Weissmann 1947; one d.; ed. Ecole normale de musique and Conservatoire national de musique, Paris; gave first concert in Paris at age of twelve; since then has given concerts in Israel, Japan, U.S.S.R., S. Africa, Australia, New Zealand, France, Britain, Belgium, Denmark, Sweden, Norway, Finland, U.S.A., etc., under baton of Sir Malcolm Sargent, Charles Munch, Koussevitsky, etc.; over 300 concerts with Israeli orchestras and regular performances with orchestras all over the world; Prof. of Piano, Tel-Aviv Univ. *Leisure interests:* gardening, painting, graphology *Address:* A20 Dubnov Street, Tel-Aviv, Israel. *Telephone:* 261993.

SAMARAKIS, Antonis; Greek author; b. 16 Aug. 1919, Athens; s. of Evripidis Samarakis and Adriani Pantelopoulos; m. Eleni Kourebanas 1963; ed. Univ. of Athens; Chief of Emigration, Refugees and Technical Assistance Depts., Ministry of Labour 1935-40, 1944-63; active in resistance movt. during second World War; has served on many humanitarian missions in many parts of the world for ILO, UNHCR, ICEM and Council of Europe; Expert on social and labour problems (many African countries, chiefly Guinea) ILO 1968-69; denied ■ passport Oct. 1970; mem. PEN, Nat. Soc. of Authors; Officier, Ordre de Léopold II (Belgium); hon. citizen of San Francisco and New Orleans; Greek Nat. Book Award 1962, Greek Prize of the Twelve 1966, Grand Prix de la Littérature policière (France) 1970. *Publications:* short stories: Wanted: Hope 1954, I Refuse 1961, The Jungle 1966, The Passport (in Nea Kimina 2) 1971; novels: Danger Signal 1959, The Flaw 1965; contributor to The Child's Song (anthology of poems for children); works have been translated into 16 languages and frequently adapted for cinema and television. *Leisure interest:* travel. *Address:* 53 Taygetou and Ippolytu Streets, Athens 806, Greece. *Telephone:* 202-9044 (Home).

SAMARAN, Charles, LITT.D.; French historian and paleographer; b. 28 Oct. 1879, Cravencères, Gers; s. of Victor Bertrand Samaran and Prospérie Baurens; m. Marie C. Taffanel 1912; three d.; ed. Ecole des Chartes and Ecole des Hautes Etudes; fmr. mem. French School in Rome; mem. Société Nationale des Antiquaires since 1930; mem. Cttee. of Historical Works 1928-; Prof. of Latin and French Paleography, Ecole des Hautes Etudes 1927-; Prof. of Bibliography and Archive Administration, Ecole des Chartes 1933-52; Dir. Archives de France 1941-48, Hon. Dir. 1948-; Pres. Int. Council of Archives 1948; mem. Acad. des Inscriptions et Belles-Lettres 1941; Pres. Int. Coll. of Paleography 1952; Pres. Comm. Supérieure des Archives 1958, History and Philology Sec., Comité des Travaux historiques et scientifiques 1959, Conseil de perfectionnement de l'Ecole des Chartes 1961; Editor Histoire Littéraire de la France 1961, Du Journal des Savants 1965; Grand Prix Littéraire de la Ville de Paris 1970, Prix Osiris, Inst. de France 1974. *Publications:* La fiscalité pontificale en France au XIVe siècle (Bordin Prize 1905), La maison d'Armagnac au XVe siècle (Gobert Prize 1907), Les diplômes originaux des Mérovingiens 1908, D'Artagnan, capitaine des mousquetaires du roi 1912 (Montyon Prize of Acad. Française), Jacques Casanova, Vénitien 1914, Jean de Bilhères-Lagraulas, cardinal de Saint-Denis 1921, Chronique latine inédite de Jean Chartier 1928, Thomas Basin, Histoire de Charles VII et de Louis XI (5 vols.) 1933, 1944, 1963, 1966, 1972, Auctarium Chartularii Universitatis Parisiensis (Estrade-Delcros Prize) (4 vols.) 1935, 1937, 1938, 1942, Etudes sandionysiennes 1944, Aspects de l'Université de Paris 1948, Balzac Livre du Centenaire 1952, Alexandre Dumas, Trois mousquetaires 1956, Les institutions féodales en Gascogne au moyen âge 1957, Manuscrits latins datés (5 vols.) 1959, 1962, 1965, 1968, 1974, L'histoire et ses méthodes (with others) 1961, Pierre Bersuire 1962, Vocation universitaire de Paris 1962, Alexandre Dumas: Vingt Ans Après 1962, De Rousseau à Nerval 1964, Chartes de Gascogne 1966, Actes de l'Abbaye de Bonnefont 1970, La commanderie de l'Hôpital-Sainte-Christie 1973, Thomas Basin, Apologie 1974, Une longue vie d'érudit recueil de travaux (2 vols.) 1978. *Address:* 8 avenue Gourgaud, Paris 75017, France. *Telephone:* 754-90-23.

SAMATER, Lieut.-Gen. Mohammed Ali; Somali army officer and politician; b. 1931, Chisimaio; ed. Intermediate School, Mogadishu, Mil. Acad., Rome; Commandant Somali Police 1956; Head Police Station, Merca 1956-58; Maj.-Adjutant Somali Police 1958-65; Mil. Acad., Moscow 1965-67; Brig.-Gen. Nat. Army 1967, Maj.-Gen. 1973; Vice-Pres. Supreme Revolutionary Council, Sec. of State for Defence 1971-76, C.-in-C. Armed Forces 1971-78; Vice-Pres. Politburo, Somali Socialist Revolutionary Party, Minister of Defence 1976-. *Address:* Ministry of Defence, Mogadishu, Somalia.

SAMAYOA CHINCHILLA, Carlos; Guatemalan writer; b. 10 Dec. 1898, Guatemala City; s. of Luis C. Samayoa and Josefina de Samayoa; m. Amelia Evangelina Paz 1947; one d.; ed. Instituto Nacional de Varones and Escuela Politécnica; Ed. Diario de Centro América 1922-28; Secr. of Presidency 1932; Under-Sec. of the Presidency 1944; Minister of Guatemala to Colombia 1944-46; Dir. Nat. Library 1947-48; Amb. to Venezuela 1948; Dir. Diario del Pueblo 1950, voluntary exile in El Salvador 1950-54, Co-founder Gen. Directorate of Fine Arts of El Salvador; Dir. Guatemala Inst. of Anthropology and History 1954-70; Founder 'Santiago' Museum, 'Libro Antiguo' Museum, and Museum of Arts and Crafts; numerous medals. *Publications:* Madre Milpa 1934, Cuatro Suertes 1936, La Casa de la Muerta 1941, El Dictador y Yo 1950, Estampas de la Costa Grande 1954, El Quetzal no es Rojo 1956, Chapines de Ayer 1957, The Art of the Ancient Maya 1959, Approximación al Arte Maya 1964. *Address:* 4a Calle 14-22 Zona 13, Guatemala City, Guatemala (Home).

SAMBASIVAN, Dr. G.; Indian malariologist; b. 6 July 1907; s. of Govindan and Bharati; Malariologist, Travancore 1935; World Health Organization 1949-, Senior Malaria Adviser, South East Asia Regional Office of WHO, New Delhi 1961-64; Dir. WHO Malaria Eradication Activities 1964-70; mem. WHO Malaria Expert Panel. *Leisure interests:* tennis and photography. *Address:* 31 avenue de Budé, 1202 Geneva, Switzerland. *Telephone:* 022-345240.

SAMKALDEN, Ivo; Netherlands civil servant and university professor; b. 10 Aug. 1912; ed. Univ. of Leiden; Sec. Comm.-Gen. for Neths. E. Indies 1946; Asst. Prof. of Public Law, Leiden Univ. 1947-48; Head of Legislative and Juridical Dept., Ministry of Agriculture, Fisheries and Food 1948-52; Prof. of Law and Political Science, Agricultural Univ., Wageningen 1952-56; Minister of Justice of the Netherlands 1956-58, 1965-66; Prof. Int. Law, Leiden

Univ. 1958-65, 1967; Mayor of Amsterdam 1967-77; mem. Partij van de Arbeid (Labour Party). *Address:* Singel 324, Amsterdam, Netherlands.

SAMMET, Rolf, DR.RER.NAT.; German chemicals executive; b. 21 Feb. 1920, Stuttgart; s. of Dr. Paul and Else (née Hillman) Sammet; m. Hilde Beckerwerth; one s. two d.; ed. Gymnasium and Technische Hochschule, Stuttgart and Technische Hochschule, Munich; Asst. Inst. for Organic Chemistry 1945-47; joined Hoechst AG 1949, Divisional Adviser, Dept of Technical Management 1952-54, Man. 1957, Departmental Dir. 1960; Deputy mem. of Board, Hoechst AG 1962, Chief Exec. Officer 1966-, Chair. of Board 1969-; Hon. Prof. Univ. Frankfurt/Main 1975-. *Address:* Hoechst AG, 623 Frankfurt/Main—80, Federal Republic of Germany. *Telephone:* Frankfurt 305-7892.

SAMORÉ, H. E. Cardinal Antonio; Vatican ecclesiastic; b. 4 Dec. 1905, Bardi (Parma); s. of Gino Samoré and Giuseppina Basini; ordained 1928; Archbishop 1950-; Cardinal 1967; librarian and archivist to the Holy Roman Church (Santa Romana Chiesa). *Address:* The Vatican, Rome, Italy. *Telephone:* Vatican 698, Ext. 3301, 4938 (Office), Ext. 3164 (Home).

SAMPEDRO, José Luis; Spanish economist and novelist; b. 1 Feb. 1917, Barcelona; s. of Luis and Matilde Sampedro; m. Isabel Pellicer Iturrioz 1944; one d.; ed. Madrid Univ.; Civil Service, Ministry of Finance 1935-50, 1957-62; Asst. Prof. of Econ. Structure, Madrid Univ. 1947-55, Prof. 1955-69; Economist, Ministry of Commerce 1951-57; Adviser to Spanish Del. to UN 1956-58; Special Prof. of Econ. Sociology, Madrid Univ. 1962-65; Asst. Gen. Dir. Banco Exterior de España 1962-69; Visiting Prof. Univ. of Salford 1969-70, Univ. of Liverpool 1970-71; Econ. Adviser Customs Bureau, Ministry of Finance 1971-; nominated mem. Senate June 1977-; Spanish Nat. Award for new playwrights 1950. *Publications:* Economics: Principles of Industrial Location 1954, Effects of European Economic Integration 1957, Economic Reality and Structural Analysis 1958, The European Future of Spain 1960, Regional Profiles of Spain 1964, Decisive Forces in World Economics 1967, Economic Structure 1969, Conscience of Underdevelopment 1973, Inflation Unabridged 1976; Fiction: Congreso en Estocolmo (Congress in Stockholm) 1952, El Río que nos lleva (The River which Carries Us) 1962, El Caballo Desnudo (The Naked Horse) 1970; plays: La Paloma de Cartón (The Paper Dove) 1950, Un sitio para vivir (A Place to Live in) 1956. *Leisure interest:* human communication. *Address:* Marqués de Urquijo 11, Madrid 8, Spain. *Telephone:* 2472416.

SAMPER, Armando; Colombian agricultural economist; b. 9 April 1920, Bogotá; s. of late Daniel Samper Ortega and of Mayita Gnecco de Samper; m. Jean K. de Samper 1945; two s. two d.; ed. Cornell Univ., U.S.A.; Research and teaching posts in agricultural econs., Colombia 1943-49; Inter-American Inst. of Agricultural Sciences of OAS, Turrialba, Costa Rica 1949-69, Head of Scientific Communications Service 1949-54, Dir. of Regional Services 1955-60, Dir. of Inst. 1960-69; Visiting Prof. Univ. of Chicago 1954-55; Minister of Agric. 1966-67, 1969-70; Agricultural Adviser, Banco de la República, Bogotá 1970-72; Chancellor Univ. de Bogotá 1971; FAO Asst. Dir.-Gen. for Latin American Affairs, Santiago, Chile 1972-74; Pres. Nat. Corpn. for Forestry Research and Devt. (CONIF), Bogotá 1975-77, Consultant 1978-; Pres. Colombian Sugar Cane Research Centre 1978-; mem. Latin American Plant Science Assen., Colombian Assen. of Professional Agriculturists, Soc. for Int. Devt., Int. Assen. of Agricultural Econs., Econ. Soc. of Friends of the Country, Int. Inst. of Tropical Agric., Amazonia 2000 Foundation. *Publications:* Importancia del Café en el Comercio Exterior de Colombia 1948, A Case Study of Cooperation in Secondary Education in Chile 1957, Política de Transformación Rural 1967, Memoria del Ministro de Agricultura al Congreso Nacional 1966-67, Desarrollo Institucional y Desarrollo Agrícola (3 vols.) 1969, El Cuartrenio de la Transformación Rural 1966-70. *Address:* Apartado Aéreo 100-286, Bogotá, D.E., Colombia. *Telephone:* 36-65-83 (Office); 54-44-84 (Home).

SAMPHAN, Khieu (see Khieu Samphan).

SAMPSON, Anthony (Terrell Seward) M.A.; British writer and journalist; b. 3 Aug. 1926, Billingham, Durham; s. of Michael Sampson and Phyllis (née Seward); m. Sally Bentlif 1965; one s. one d.; ed. Westminster School and Christ Church, Oxford; served with Royal Navy 1944-47; Sub Lieut. R.N.V.R. 1946; Editor Drum magazine, Johannesburg 1951-55; Editorial Staff, The Observer 1955-66, Chief American Corresp. 1973-74, Editor The Observer Colour Magazine 1965-66; Assoc. Prof. Univ. of Vincennes, Paris 1968-70; Contributing Editor Newsweek 1977-; awarded Prix Inter de la Presse for The Seven Sisters 1976. *Publications:* Drum, ■ Venture into the New Africa 1956, The Treason Cage 1958, Commonsense about Africa 1960, (with S. Pienaar), Anatomy of Britain 1962, Anatomy of Britain Today 1965, South Africa: Two Views of Separate Development 1966, Macmillan: ■ Study in Ambiguity 1968, The New Anatomy of Britain 1971, The Sovereign State: the Secret History of ITT 1973, The Seven Sisters 1975, The Arms Bazaar 1977. *Leisure interest:* gardening. *Address:* 27 Ladbroke Grove, London W.11; 2 Valley Farm, Walberswick, Suffolk, England. *Telephone:* 01-727 4188 (London); Southwold 722080 (Suffolk).

SAMUELS, Nathaniel; American government and international official; b. 20 Oct. 1908, Chicago, Ill.; s. of Maurice and Sarah Altman Samuels; m. Mary Elizabeth Hyman 1952; two s.; ed. Harvard Univ.; admitted Ill. bar 1935, practised law 1935-42; war service 1942-46; assigned to Mission for Econ. Affairs, London 1945-46; various exec. posts, SOFINA engineering and investment firm, Brussels 1946-55; Special Adviser, later Dir. of Div. of Industrial Resources, Mutual Security Agency, Paris 1952-53; various posts Kuhn, Loeb & Co. 1955-69, 1972-, Chair. Board 1977-; Deputy Under-Sec. of State for Econ. Affairs 1969-72; Act. Gov. IMF, IBRD 1969-72; Dir. Int. Basic Economy Corpn. 1963-69, Chair. 1972-77; Chair. Louis Dreyfus Holdings and Dir. Banque Louis Dreyfus, Paris 1974-; fmrly. mem. Cttee. on Int. Monetary Relations and Cttee. on Foreign Investment and Economic Devt.; mem. Council on Foreign Relations of New York. *Publications:* articles in Foreign Affairs and Columbia Journal of World Business. *Address:* 40 Wall Street, New York, N.Y. 10005; 775 Park Avenue, New York, N.Y. 10021, U.S.A. (Home).

SAMUELSON, Paul Anthony, PH.D., LL.D., D.LITT., D.SC.; American economist; b. 15 May 1915, Gary, Ind.; s. of Frank Samuelson and Ella Lipton; m. Marion E. Crawford 1938; four s. (including triplets) two d.; ed. Hyde Park High School Chicago, Univ. of Chicago and Harvard Univ.; Prof. of Econs. at M.I.T. 1940-, Inst. Prof. 1966-, mem. Radiation Lab. Staff 1944-45; Consultant to Nat. Resources Planning Board 1941-43, to War Production Board 1945, to U.S. Treasury 1945-52, 1961-, to Rand Corpn. 1949-, to Council of Econ. Advisers 1960-68, to Fed. Reserve Board 1965-, to Loomis, Sayles & Co. Boston and to Burden Investors Services Inc.; Research Advisory Board Cttee. for Econ. Devt. 1960; Advisory Board to Pres. Eisenhower's Comm. on Nat. Goals 1960; Nat. Task Force on Econ. Educ. 1960-61; Special Comm. on Social Sciences of Nat. Science Foundation 1968-; Comm. on Money and Credit; Econ. Adviser to Pres. Kennedy during election campaign; author of report to Pres. Kennedy on State of American Economy 1961; on Editorial Board of Econometrica; Guggenheim Fellow 1948-49; numerous honorary degrees; mem. American Acad. of Arts and Sciences, American Economic Assen. (Pres. 1961), Int. Economic Assen. (Pres. 1965-68, lifetime hon. Pres.); Fellow American Philosophical Soc., Econometric Soc. (Council mem., Vice-Pres. 1950, Pres. 1951); Corresp. Fellow British Acad.; several awards including Nobel Prize for Economic Science 1970, Albert Einstein Commemorative Award 1971. *Publications:* Foundations of Economic Analysis 1947 (2nd edn. 1961), Economics 1948, 1952, 1955, 1958, 1961, 1964, 1967, 1970, 1973, 1976 (21 translations), Readings in Economics (with R.L. Bishop and J.R. Coleman) 1952, 1955, 1958, 1967, 1973, Linear Programming and Economic Analysis 1958, Collected Scientific Papers, I and II 1966, III 1972, Collected Scientific Papers of Paul A. Samuelson (vols. I–IV) 1965, 1972, 1978; author and joint author of numerous articles on economics. *Leisure interest:* tennis. *Address:* Massachusetts Institute of Technology, Cambridge, Mass. 02139; 75 Clairemont Road, Belmont, Mass. 02178, U.S.A. (Home). *Telephone:* 617-253-3368 (M.I.T.).

SAN YU, Brig.-Gen.; Burmese army officer and politician (retd.); b. 1919, Prome; ed. Univ. of Rangoon and an American mil. coll.; commissioned 1942, served in Second World War; Mil. Sec. to Chief of Gen. Staff 1956-59; Officer commanding the North and Northwest mil. areas; mem. Revolutionary Council, Deputy Chief of Gen. Staff, Commdr. of Land Forces and Minister of Finance and Revenue 1963; Gen. Sec. Cen. Organizing Cttee., Burmese Socialist Programme Party 1965-78, re-elected 1978; Minister of Nat. Planning, Finance and Revenue 1969-72; Deputy Prime Minister 1971-74; Minister of Defence 1972-74; Chief of Gen. Staff 1972-74; Sec. Council of State 1974-; Vice-Chair. Socialist Econ. Planning Cttee. *Address:* Council of State, Rangoon, Burma.

SANANIKONE, Phoui; Laotian politician; b. 1903; Head of Province 1941-46; Pres. Chamber of Deputies 1948-50, 1960-74; Prime Minister and Pres. of the Council of Ministers 1950-51, 1958-59; Minister of Foreign Affairs 1953-54, 1954-56, 1957-58, 1959; Vice-Pres. Council of Ministers 1953-56; numerous other cabinet posts; Pres. Nationalist group, Rassemblement du Peuple Lao 1962-

74; sentenced to death *in absentia* Sept. 1975; Grand Croix Ordre Royal du Million d'Eléphants et du Parasol Blanc; Commdr. Légion d'honneur; Croix de guerre avec palme.

SANBAR, Moshe, M.A.(ECON.); Israeli banker and economist; b. 29 March 1926, Kecskemét, Hungary; s. of Shlomo and Miriam (Klansner) Sandberg; m. Bracha Rabinovich 1951; two d.; ed. Univ. of Budapest and Hebrew Univ., Jerusalem; immigrated to Israel 1948; Project Dir. Israel Inst. of Applied Social Research and later Deputy Dir. 1951-58; Lecturer in Statistics, Hebrew Univ., Jerusalem 1957-61; Deputy Dir. Internal State Revenue Div., Ministry of Finance 1958-63; Econ. Adviser to Ministry of Finance 1963-68; Dir. of the Budgets, Ministry of Finance 1964-68; Deputy Chair. and later Chair., Industrial Devt. Bank of Israel 1968-71; Chief Econ. Adviser to Minister of Finance 1969-71; Deputy Minister of Commerce 1970-71; Gov. Bank of Israel 1971-76; Chair. Electrochemical Inds. (Frutarom) Ltd., Haifa 1976, State Comm. on Local Govt.; Chair. HABIMA Nat. Theatre. *Publications:* My Longest Year (Yad Vashem Prize) 1966; numerous articles in professional journals. *Address:* 44 Pincas Street, Tel-Aviv, Israel (Home). *Telephone:* (04) 913-163 (Office); (03) 446-060 (Home).

SANÇAR, Ilhami, B.A.; Turkish lawyer; b. 1909, Göredes; m.; ed. secondary school, Izmir, Univ. of Ankara; appointed bailiff 1934; Attorney-Gen. for Menemen 1936, for Urgüp 1939; worked as lawyer in local govt. 1939; practised as barrister 1940; mem. National Assembly 1961; Deputy for Istanbul 1961, 1965-; Minister of National Defence 1961-65, 1973-74, 1974. *Address:* Tunali Hilmi Caddesi No. 90/7 Kavaklidere, Ankara, Turkey.

SANCAR, Gen. Semih; Turkish army officer; b. 1911, Erzurum; m.; two c.; ed. Artillery School, War Acad.; served in Turkish Army as Commdr. of Artillery Battery and Battalion, Asst. Commdr. Army Corps Artillery, Dept. Chief, Branch Section Dir. in Land Forces and Gen. Staff H.Q.; then Instructor War Acad.; Dir. of Personnel, Dir. of Operations Turkish Gen. Staff; promoted to rank of Gen. 1969; Commdr. of Gendarmerie 1969; Commdr. 2nd. Army; Commdr. Turkish Land Forces 1972-73; Chief of Gen. Staff 1973-78. *Address:* c/o General Staff Headquarters, Ankara, Turkey.

SÁNCHEZ, Luis Alberto, PH.D., LIT.D., HIST.D.; Peruvian university professor and politician; b. 1900; ed. Sacré Coeur, Universidad Mayor de San Marcos; Asst. Dir. Nat. Library of Peru 1928-30; Dean, Faculty of Philosophy, History and Literature, Univ. Mayor de San Marcos, Lima 1946, 1961, Rector 1946-48, 1961-64; mem. of the Chamber of Deps. 1931-36, 1945-48, Pres. 1945; Special Amb. to Colombia 1946, Mexico 1960-61; Dir. Editorial Ercilla, Santiago, Chile 1935-45; mem. Exec. Nat. Cttee. of the Partido Aprista Peruano (APRA Party) 1931-34, 1945-49, 1956-; mem. Board of Trustees American Inst. for Free Labor Development, Washington 1962-; exiled 1932-33, 1934-45, 1948-56; Nat. Culture Prize 1959, 1960; Peruvian and foreign honours. *Publications:* La Literatura Peruana (6 vols.) 1951, Historia General de América (2 vols.) 1942, 6th edn. 1958, Proceso y Contenido de la Novela Hispano-Americana 1953, Historia de la Literatura Americana 1951, Escritores Representativos de América (2 vols.) 1957, Examen Espectral de América Latina 1962. *Address:* P.O. Box 673, Lima, Peru.

SÁNCHEZ-GAVITO, Vicente, A.B., LL.B.; Mexican diplomatist; b. 25 May 1910, México, D.F.; s. of Vicente Sánchez-Gavito and María Pina y Aguayo; m. María Marguia 1936; six d.; ed. Univ. Nacional Autónoma de México and Escuela Libre de Derecho; entered Diplomatic Service of Mexico 1935-; Counsellor, Embassy in Washington 1943-47; Dir.-Gen. Diplomatic Service, Foreign Office 1947-51; Minister, Washington 1956-58, Amb. 1959; Amb. to Brazil 1965-70, to U.K. 1970-73, to Fed. Repub. of Germany 1975-76; mem. UN Tribunals in Libya and Eritrea 1951-55; Mexican Rep., Council of OAS 1959-65, Chair. of Council 1960, Chair. Interamerican Peace Cttee. 1961, Honduras-Nicaragua Mixed Comm. 1961; mem. Mexican Dels. to numerous Foreign Ministers' Meetings and Extraordinary Interamerican Confs. of OAS (Pres. of Mexican Dels. to 9th Foreign Ministers' Meeting and to 1st Extraordinary Interamerican Conf.); Orders of the Southern Cross (Brazil), Liberator (Venezuela), Ethiopian Star, Cedar of Lebanon, Orange-Nassau (Netherlands). *Leisure interest:* chess. *Address:* c/o Secretaría de Relaciones Exteriores, Avda. Nonoalco 1, Tlatelolco, México 3, D.F., Mexico.

SÁNCHEZ HERNÁNDEZ, Col. Fidel; Salvadorian army officer and politician; b. 7 July 1917; Mil. Attaché, Washington 1960-62; Minister of Interior 1962-66; Pres. of El Salvador 1967-72; Leader of Partido de Conciliación Nacional (PCN). *Address:* Partido de Conciliación Nacional, Calle Arce 1128, San Salvador, El Salvador.

SÁNCHEZ MÉNDEZ, Jorge; Costa Rican economist and politician; ed. School of Econ. and Social Services, Costa Rica; rep. on Exec. Council of Gen. Treaty of Cen. American Econ. Integration 1965; Prof. Cen. American Econ. Univ.; head of dels. to ECLA, LAFTA 1967; Deputy Minister of Econs., Industry and Commerce 1970-72, Minister 1972-73, 1974-77. *Address:* c/o Ministerio de Economía, Industria y Comercio, San José, Costa Rica.

SÁNCHEZ-VILELLA, Roberto; Puerto Rican politician; b. 19 Feb. 1913, Mayaguez; s. of Luis Sánchez-Frasqueri and Angela Vilella-Vélez; m. Jeanette Ramos-Buonomo 1967; one s. three d.; ed. Ohio State Univ.; Sub-Commr. of the Interior 1941-42; Dir. Transportation Authority of Puerto Rico 1942-45; Special Asst. to Pres. of Senate 1946-47; Resident Engineer Caribe Hilton Hotel 1947-48; Exec. Sec. to Govt. 1949-51; Sec. of State 1952-64; Gov. Puerto Rico 1965-69; Prof. School of Public Admin. 1974-; Pres. People's Party; mem. Puerto Rico Coll. of Engineers, American Soc. of Public Administrators; Hon. LL.D. (Ohio State Univ.) 1966. *Leisure interests:* reading, dominoes. *Address:* 414 Muñoz Rivera Avenue, Suite 7-A, Stop 31-1/2, Hato Rey, Puerto Rico 00918 *Telephone:* 753-9156.

SANDAGE, Allan Rex, PH.D., D.SC.; American astronomer; b. 18 June 1926, Iowa City; s. of Charles H. Sandage and Dorothy M. Briggs; m. Mary L. Connelly 1959; two s.; ed. Univ. of Illinois and California Inst. of Technology; staff mem. Mount Wilson and Palomar Observatories 1952-; Asst. Astronomer Hale Observatories, Calif. 1952-56, Astronomer 1956-; Visiting Lecturer, Harvard Univ. 1957; Consultant, Nat. Science Foundation 1961-63; mem. Cttee. on Science and Public Policy 1965; Philips Lecturer, Haverford Coll. 1968; Research Assoc. Australian Nat. Univ. 1968-69; Fulbright-Hayes Scholar 1972; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, A.A.A.S., Royal and American Astronomical Socs.; numerous hon. degrees; Helen Warner Prize of American Astronomical Soc. 1960, Russell Prize 1973; Eddington Medal, Royal Astronomical Soc. (U.K.) 1963; Pope Pius XI Gold Medal, Pontifical Acad. of Sciences 1966; Gold Medal, Royal Astronomical Soc. (U.K.) 1967, Rittenhouse Medal 1968, Nat. Medal of Scientific Merit 1971, Elliott Gresson Medal, Franklin Inst. 1973, Gold Medal of Pacific Astronomical Soc. 1975. *Publications:* Numerous scientific papers and Hubble Atlas of Galaxies. *Leisure interest:* gardening. *Address:* 813 Santa Barbara Street, Pasadena, Calif. 91106 (Office); 8319 Josard Road, San Gabriel, Calif. 91775, U.S.A. (Home). *Telephone:* (213) 285-5086 (Home).

SANDBERG, Michael Graham Ruddock, O.B.E., J.P.; British banker; b. 31 May 1927, Thames Ditton, Surrey; s. of late Gerald Arthur Clifford and late Ethel Marion (née Ruddock) Sandberg; m. Carmel Mary Roseleen Donnelly; two s. two d.; ed. Saint Edward's School, Oxford; mil. service 1945-48, commissioned into 6th DCO Lancers, Indian Army, later 1st King's Dragoon Guards; joined Hongkong and Shanghai Banking Corpn. 1948, Deputy Chair. 1973-77, Chair. 1977-; Chair. Mercantile Bank Ltd. 1977-; Unofficial mem. of Exec. Council of Hong Kong 1978-; Steward, Royal Jockey Club 1972-. *Leisure interests:* horse racing, cricket, horology. *Address:* c/o The Hongkong and Shanghai Banking Corporation, 1 Queen's Road Central, Hong Kong. *Telephone:* 5-222011.

SANDBERG, Willem; Netherlands museum director; b. 24 Oct. 1897, Amersfoort; m. Alida Swaneveld 1926; one s. two d.; ed. Acad. of Fine Arts, Amsterdam, Univs. of Vienna and Utrecht. Designer in Amsterdam 1928-38; Asst. Dir. Municipal Museums, Amsterdam 1938-45, Dir. 1945-62; Head, Int. Section "Art since 1950" U.S. World's Fair, Seattle, Wash. 1962; Chair. Exec. Cttee. Israel Museum, Jerusalem 1964-68, 1971-72; Erasmus Lecturer, Harvard Univ., U.S.A. 1969; Co-founder Fed. of Professional Artists in the Netherlands 1945, Pres. 1947-51; Vice-Pres. Netherlands Arts Council 1948-60; Pres. Acad. Council, Jerusalem 1973-; Hon. degree (Univ. of Buffalo, New York) 1962; Gold Medallist American Inst. of Graphic Arts, City of Amsterdam, Dutch State Prize for Graphic Design 1968; Erasmus Prize 1975; many foreign decorations. *Publications:* many articles on art and museum building; Co-editor Pioneers of Modern Art. *Leisure interest:* designing. *Address:* Dirk Schaeferstraat 37, Amsterdam, Netherlands. *Telephone:* 725385.

SANDBLOM, (John) Philip, M.D., M.S.; Swedish professor of surgery and university administrator; b. 29 Oct. 1903, Chicago, Ill., U.S.A.; s. of Dr. John N. Sandblom and Ellen Chinlund; m. Grace Schaefer 1932; three s. two d.; ed. Northwestern Univ. and Karolinska Institutet, Stockholm. Assoc. Prof. of Surgery, Karolinska Institutet, Stockholm 1944; Surgeon-in-Chief, Crown Princess Louise's Children's Hospital 1945-50; Prof. of Surgery and Head of Dept. of Surgery, Lund Univ. 1950-70, Vice-Chancellor of Lund Univ. 1957-68; Visiting Prof. Univ. of Calif., San Diego 1972-73, Univ. of Lausanne 1973-; mem. of Board, Soc. for Modern Art 1936-46, Gen. Art Soc. 1943-70; Treas. Swedish Surgical Soc. 1946-52,

Pres. 1957-58, 1970; mem. Insurance Advisory Board 1947-50; Corresp. mem. Deutsche Gesellschaft für Chirurgie, and Norwegian Surgical Soc.; Pres. Soc. Int. de Chirurgie 1967; Hon. Fellow, American Coll. of Surgeons, Royal Coll. of Surgeons in Edinburgh and Ireland; Hon. mem. American Surgical Assn., Southern Surgical Assn., Soc. Int. de Chirurgie, Assn. of Surgeons of Great Britain and Ireland, Swedish, Danish, French, Italian, Northern, Swiss and Finnish Surgical Socs.; Ph.D. h.c. and many other hon. degrees. *Publications:* Function of the Human Gall Bladder, Function of the Sphincter Oddi., Tensile Strength of Healing Wounds, Hemobilia, The Responsibility of Society to Surgery, The Role of the University in the World of Violence, The Difference in Men, Portal Hypertension, Ill Artists; teaching film: Atraumatic Surgical Technique, and various papers. *Leisure interests:* collecting works of modern art, sailing, skiing. *Address:* 2 chemin des Bluets, 1012 Lausanne, Switzerland. *Telephone:* 021-296877.

SANDERS, Donald Neil, B.ECON.; Australian central banker; b. 21 June 1927, Sydney; s. of L. G. Sanders; m. Betty Elaine Constance 1952; four s. one d.; ed. Univ. of Sydney. Commonwealth Bank of Australia 1943-60; Australian Treasury 1956; Bank of England 1960; with Reserve Bank of Australia 1960-, Supt., Credit Policy Div. of Banking Dept. 1964-66, Deputy Man. of Banking Dept. 1966-67, of Research Dept. 1967-70, Chief Man. of Securities Markets Dept. 1970-72, of Banking and Finance Dept. 1972-74, Adviser and Chief Man. of Banking and Finance Dept. 1974-75, Deputy Gov. and Deputy Chair. of Board 1975-. *Address:* Reserve Bank of Australia, 65 Martin Place, Sydney, N.S.W. 2000, Australia.

SANDILANDS, Sir Francis Edwin Prescott, Kt., C.B.E., M.A.; British insurance executive; b. 11 Dec. 1913, Chatham; s. of Lt.-Col. Prescott Sandilands and Gladys Baird Murton; m. Susan Gillian Jackson 1939; two s.; ed. Eton and Corpus Christi Coll., Cambridge; joined Commercial Union Group of insurance cos. 1935, Chief Exec. 1958-72, Vice-Chair. 1968-72, Chair. 1972-; Chair. Royal Trust Co. of Canada (U.K.) 1974-, British Insurance Assn. 1965-67, Cttee. on Inflation Accounting (Sandilands Cttee.) 1974-75, Cttee. on Invisible Exports 1976; Dir. Finance for Industry Ltd., Imperial Chemical Industries Ltd., Kleinwort, Benson Lonsdale Ltd., Plessey Co. Ltd., Trafalgar House Ltd., Royal Opera House 1975-; Pres. Insurance Inst. of London 1969-70; Treas. Univ. Coll., London 1973-; Hon. Fellow, Corpus Christi Coll., Cambridge 1975; Trustee, British Museum; Commdr. Order of Crown of Belgium. *Leisure interests:* music, medieval history, gardening. *Address:* Commercial Union Insurance Company Ltd., St. Helen's, 1 Undershaft, London E.C.3 (Office); 53 Cadogan Square, London, S.W.1, England (Home). *Telephone:* 01-283 7500 (Office); 01-235 6384 (Home).

SANDOUNGOUT, Marcel; Gabonese trade unionist and diplomatist; b. 25 Oct. 1927; fmr. trade unionist, Gabon; fmr. Chef de Cabinet to Minister of Planning for Agriculture; Chief, Div. for Int. Orgs., Ministry of Foreign Affairs 1960; mem. Nat. Assembly 1961, Chair. Cttee. for Foreign Affairs and Defence, 1961, 1962; Del. to Defence Council of African and Malagasy Union 1961, 1962; Minister of Health and Social Affairs May-Dec. 1962, for Public Works, Tourism and Posts and Telecommunications 1963-64; Amb. to Fed. Repub. of Germany, Belgium, Netherlands, Norway, Denmark, Sweden and Luxembourg 1964-66; Perm. Rep. to GATT and EEC 1964-66; Perm. Rep. to UN 1967-68; Amb. to Dahomey and Senegal 1969-71, to Ivory Coast 1971-72, to France (also accred. to Austria, Switzerland and Tunisia) 1972-. *Address:* Embassy of Gabon, 26 bis avenue Raphael, 75016 Paris, France.

SANFORD, Terry, A.B., J.D., LL.D., LITT.D.; American university president, lawyer and politician; b. 20 Aug. 1917, Laurinberg, N.C.; s. of late Cecil L. Sanford and of Elizabeth Martin; m. Margaret Rose Knight 1942; one s. one d.; ed. Presbyterian Junior Coll., Univ. of North Carolina and Univ. of N.C. School of law; attorney at Law and partner in private law firm N.C. 1948-60; mem. N.C. State Ports Authority 1950-53; N.C. State Senator 1953-55; Gov. N.C. 1961-65; mem. Board of Trustees Berea Coll., Methodist Coll. Fayetteville 1958- (Chair. 1958-68), Shaw Univ., Univ. of N.C. 1961- (Chair. 1961-65); Pres. Duke Univ. 1969-; Trustee Howard Univ. 1971-74; Trustee and mem. numerous orgs. mainly concerned with educ., children's welfare, govt., regional and urban problems; mem. Advisory Board Nat. Assn. for Retarded Children 1965; mem. Board of Dirs. Arts Council of America 1965-70; Trustee Nat. Council on Crime and Delinquency 1969-; mem. Advisory Cttee. for Institutional Relations, Nat. Science Foundation 1971-; mem. American Bar Assn. Special Cttee. on Co-ordination of Judicial Improvements 1971-72; Chair. Board of Dirs. Nat. Council of Independent Colls. and Univs. 1971-; mem. American and N.C. Bar Assns., American Judicature Soc., American Acad. of Political Science; several honorary degrees. *Publications:* But What About People 1966, Storm Over the States 1967. *Address:* Office of the President, Duke University, Durham, N.C. 27706, U.S.A.

SA'NGAD CHALORYOO, Admiral, B.SC.; Thai naval officer and politician; b. 4 March 1915, Suphan Buri; ed. Ban Som Chao Dej Phraya School, Royal Naval Acad., Naval Command and Staff Coll., Nat. Defence Coll., Naval War Coll., also naval training in U.S.A. Commanding Officer, H.T.M.S. Tongplew 1952, H.T.M.S. Tachine 1953-56; Commanded Royal Thai Navy Flotilla on active service in Korean war 1953-55; Chief of Staff, Anti-Submarine Sqn. 1956, C.O. of Sqn. 1957; Chief of Staff, Royal Fleet 1962; Asst. Chief of Naval Staff for Operations 1964; Deputy Chief of Naval Staff 1969; Deputy Chief of Staff, Supreme Command HQ 1971; C.-in-C. Royal Fleet 1972; Deputy C.-in-C. Royal Thai Navy 1973, C.-in-C. 1973-76; Supreme Commdr. Armed Forces 1975-76; retd. Sept. 1976; Special Officer of First Regt. of Royal Guards 1976; several posts in Nat. Assembly 1976; Minister of Defence 5-6 Oct. 1976; Chair. Nat. Admin. Reform Council deposing govt. of M.R. Seni Pramoj (*q.v.*) 6-22 Oct. 1976; Minister of Defence Oct. 1976-Oct. 1977; Chair. Prime Minister's Advisory Council Nov. 1976-Oct. 1977, Chair. Revolutionary Council deposing govt. of Thanin Kraivichien (*q.v.*) Oct.-Nov. 1977; Pres. Nat. Policy Council Nov. 1977-; Knight Grand Cordon, Special Class, of Order of the White Elephant; Knight Grand Cordon of Order of the Crown; Knight Grand Commdr., Second Class, of Order of Chula Chom Klao; Victory Medal. *Address:* National Policy Council, Bangkok; 199 Soi Tesaban 17, Muang District, Smut Prakan, Thailand (Home).

SANGER, Frederick, C.B.E., B.A., PH.D., F.R.S.; British research biochemist; b. 13 Aug. 1918, Rendcomb, Glos.; s. of Frederick Sanger and Cicely Crewdson; m. Joan Howe 1940; two s. one d.; ed. Bryanston School and St. John's Coll., Cambridge; biochemical research at Cambridge 1940-; Beit Memorial Fellowship 1944-51; mem. Scientific Staff, Medical Research Council 1951-; Fellow, Kin's Coll., Cambridge 1954-; Hon. Foreign mem. American Acad. of Arts and Sciences 1958-; hon. mem. American Soc. of Biological Chemists, Japanese Biochemical Soc.; corresp. mem. Asociación Química de Argentina; mem. Acad. of Science of Argentina and Brazil, World Acad. of Arts and Science; foreign assoc. Nat. Acad. of Sciences (U.S.A.); Corday-Morgan Medal and Prize, Chemical Soc. 1951, Nobel Prize for Chemistry 1958, Alfred Benzon Prize 1966; Royal Medal (Royal Soc.) 1969; Hopkins Memorial Medal 1971; Gairdner Foundation Annual Award 1971, Hanbury Memorial Medal 1976, William Bate Hardy Prize 1976, Copley Medal 1977, G.W. Wheland Award 1978; Hon. D.Sc. (Leicester, Oxford, Strasbourg). *Publications:* Various papers on protein and nucleic acid structure and metabolism in scientific journals. *Leisure interests:* boating, skiing, gardening. *Address:* Medical Research Council Laboratory of Molecular Biology, Hills Road, Cambridge, England. *Telephone:* Cambridge 48011.

SANGER, Ruth Ann, PH.D., F.R.S.; British medical research scientist; b. 6 June 1918, Southport, Queensland; d. of Hubert Sanger and Katharine M. Ross (Cameron); m. Robert Russell Race, C.B.E., F.R.C.P., F.R.S. (*q.v.*) 1956; no c.; ed. Abbotsleigh, Sydney and Sydney and London Univs.; mem. of scientific staff, Red Cross Blood Transfusion Service, Sydney 1941-46, Medical Research Council Blood Group Unit, Lister Inst., London 1946-, Dir. 1973-; Karl Landsteiner Award, American Assn. of Blood Banks (with Dr. R. R. Race) 1957, Philip Levine Award, American Soc. of Clinical Pathologists (with Dr. R. R. Race) 1970, Gairdner Award, Toronto 1972, Oliver Memorial Award 1973. *Publications:* Blood Groups in Man (with Dr. R. R. Race) 1950, 6th edition 1975; many papers on blood groups in medical and scientific journals. *Leisure interests:* boating, gardening. *Address:* Medical Research Council Blood Group Unit., Wolfson House, University College London, 4 Stephenson Way, London NW1 2HE; 22 Vicarage Road, East Sheen, London, SW14 8RU, England (Home). *Telephone:* 01-388 7752 (Office); 01-876 1508 (Home).

SANGUINETI, Edoardo; Italian writer; b. 9 Dec. 1930, Genoa; s. of Giovanni Sanguineti and Giuseppina Cocchi; m. Luciana Garabello 1954; three s. one d.; ed. Univ. degli Studi, Turin. Former Prof. of Italian Literature, Univ. of Genoa. *Publications:* Laborintus 1956, Opus metricum 1960, Interpretazione di Malebolge 1961, Tre studi danteschi 1961, Tra liberty e crepuscolarismo 1961 and 1965, Alberto Morovia 1962, K. ■ altre cose 1962, Passaggio 1963, Capriccio italiano 1963, Triperuno 1964, Ideologia e linguaggio 1965, Il realismo di Dante 1966, Guido Gozzano 1966, Il Giuco dell' Oca 1967, Le Baccanti di Euripide (trans.) 1968, Fedra di Seneca (trans.) 1969, T.A.T. 1969, Teatro 1969, Poesia Italiana del Novecento 1969, Il Giuoco del Satyricon 1970, Orlando Furioso (with L. Ronconi) 1970, Renga (with O. Paz, J. Roubaud, C. Tomlinson) 1971, Storie Naturali 1971, Wirrwarr 1972, Catamerone 1974, Le Troiane di

Euripide (trans.) 1974, Giornalino 1976, Postkarten 1978, Le Coefore di Eschilo (trans.) 1978. *Address:* Via Cabella 11, 16122 Genoa, Italy. *Telephone:* 010-813263.

SANGUINETTI, Alexandre: French politician; b. 27 March 1913; ed. Coll. Stanislas, Paris and Ecole de Droit, Cairo; war service, Second World War; Head of Office, Ministry of Information 1959-61, Ministry of the Interior 1961-62; mem. Chamber of Deputies 1962-; Minister for Veterans 1966-67; Vice-Pres. Comm. for Nat. Defence 1962-66, Pres. 1968-; Pres. regional council of Midi-Pyrenées (U.D.R., now R.P.R.) 1970-; Sec.-Gen. Union des Démocrates pour la République 1973-74; Officier, Légion d'honneur, Médaille militaire, Croix de guerre. Histoire du Soldat de la Violence et des Pouvoirs 1979. *Publications:* La France et l'arme atomique, Une nouvelle résistance, Réformer la démocratie?, Une armée, Pourquoi faire?, Sujets ou citoyens. *Address:* c/o Rassemblement pour la République, 123 rue de Lille, 75007 Paris, France.

SANJABI, Karim; LL.D.; Iranian lawyer and politician; b. 1904; s. of Sardar Nasser Sanjabi; ed. Pol. Science School, Teheran, Teheran Univ. and Univ. of the Sorbonne; entered Ministry of Educ. 1934; with Ministry of Finance 1939; Prof. of Law; arrested by British during World War II, banned from Kermanshah during War; founding mem. Mihan movement; worked with Prime Minister Mossadeq during period of Nat. Front Govt.; arrested several times; mem. Cen. Cttee. Nat. Front 1960-; arrested 1961; Minister of Foreign Affairs Feb.-April 1979. *Address:* c/o Ministry of Foreign Affairs, Teheran, Iran.

SANMINIATELLI, Bino; Italian artist and writer; b. 7 May 1896, Florence; s. of Count Senator Donato Samminiatelli and Countess Marta Camerini; m. Countess Elena dei Principi di Castelbarco Albani 1921; one s. two d.; ed. Univs. of Padua, Rome and Siena; mem. Futurist and Dada movements, Dir. with painter Prampolini of avant-garde magazine Noi; writer and drawing artist represented with etchings in important int. and nat. exhbns. in Venice and Rome; works hung in most important nat. galleries of modern art, also exhibited internationally; etchings published by Ceschima and De Luca; Vice-Pres. Dante Alighieri Soc.; Pres. Cento Amici del Libro; literary prizes: Viareggio Prize 1933, Encomio della Reale Accad. d'Italia 1935, Rustichello Prize 1961, Marzotto Prize 1963. *Publications:* Fiamme a Monteluce 1938, L'Omnibus del Corso 1940, Cervo in Maremma 1942, Gente in Famiglia 1951, Le Proibizioni 1954, Il Viaggiatore sedentario 1953, Mi dico addio 1959, La Mora 1961, Il Permesso di Vivere 1963, Vita di Michelangelo 1964, Quasi un uomo 1968, Ultimo Tempo 1977; contributor to Il Tempo, Il Corriere della Sera, Il Resto del Carlino etc. *Leisure interests:* agriculture, archaeology, travel. *Address:* Vignamaggio, 50022 Greve in Chianti, Florence, Italy, *Telephone:* 055-85007.

SANSBURY, Rt. Rev. Cyril Kenneth, D.D.; British ecclesiastic; b. 21 Jan. 1905; ed. St. Paul's School, London, Peterhouse, Cambridge, and Westcott House, Cambridge; ordained Deacon 1928, Priest 1929; Curate, Diocese of Southwark 1928-32; Missionary in Japan 1932-41; Prof. Central Theological Coll., Tokyo, and Chaplain, St. Andrew's Church. Tokyo 1934-41; Chaplain, Royal Canadian Air Force 1941-45; Warden, Lincoln Theological Coll. 1945-52; Canon and Prebendary, Lincoln Cathedral 1948-53; Warden, St. Augustine's Coll., Canterbury 1952-61; Hon. Canon of Canterbury 1953-61; Bishop of Singapore and Malaya 1961-66; Gen. Sec. British Council of Churches 1966-73; Asst. Bishop, Diocese of London 1966-73; Priest-in-charge St. Mary in the Marsh and Hon. Minor Canon, Norwich Cathedral. *Publications:* Truth, Unity and Concord, Anglican Faith in an Ecumenical Setting 1967, Combating Racism, The British Churches and the World Council of Churches Programme to Combat Racism 1975. *Address:* 53 The Close, Norwich, NR1 4EG, England. *Telephone:* 0603-618808

SANTA MARIA, Luigi; Italian business executive; b. 20 Nov. 1912, Naples; s. of Alberto and Elena Monarine; m. Cesarina Pica; two s. one d.; graduated in law; Pres. Lombard Union of Mfrs. of Artificial Textile Fibres; mem. Exec. Council Gen. Confederation of Industry 1970-73; Pres., Man. Dir. Snia Viscosa S.p.A. *Address:* Via Serbelloni 14, 20121 Milan, Italy. *Telephone:* 709795.

SANTORINI, Paul E.; Greek scientist and engineer; emeritus professor of physics; b. 8 June 1893, Odessa, m. 1st Gertrude Bonn 1922, one s.; m. 3rd Anastasie Pierrakou 1967; ed. Swiss Fed. Inst. of Tech., Zürich (engineering), Univ. of Zürich (physics) and Univ. of Athens (physics and mathematics). Engineer, Löntschwek Hydro-electric plant, Glarus, Switzerland 1918-19; Engineer, Ministry of Communications, Athens 1919-22; Dir. Athens Construction Co. 1922-30; Dir. Dept. of Hydrometry, Ministry of Agric. 1930-46; Extraordinary Prof. of Applied Physics, Athens Univ. 1935; invented High-frequency Absorbomicrometer 1929, Absorbomicrometric Balance 1934; discovered "Elastic Inertia Effect" in concrete mass under deformation 1930; Electronic Weapons Research, Greek Army Gen. Staff, Athens 1936-40; built Greece's Radar, the first centimetric wavelength radar 1936-39 and the first Proximity Fuse 1936; discovered natural and obtained artificial propagation of centimetric electromagnetic waves beyond optical line of sight, by Dispersion Effect on top of natural obstacles (S.-Effect) 1937; holds the two basic patents for the "Electronic Brain H" for automatic guiding of missiles type Nike 1942; established lowest duration limit of observable physical phenomena in nature 1958; proposed new hypothetical Universe Continuum, Nice (France) 1969, proposed new theory of emergence of Universe ("Small" Bang of infinitesimal original Continuum Particle ■ opposed to Lemaître's "Big" Bang), Nice (France) 1970; Ordinary Prof. of Experimental Physics and Dir. of Experimental Physics Lab. The Nat. Technical Univ. of Athens 1946-64, Prof. Emer. 1964-; Chief Greek Govt. Del. to numerous Int. Scientific Congresses 1931-; Hon. Pres. 7th Int. Congress Philosophy, Nice 1969; Pres. Hellenic Soc. for Research and Invention 1969-71; Fellow, New York Acad. of Sciences 1965; Fellow of Royal Soc. of Arts (London); mem. or corresp. mem. many Acads. of Sciences, Insts. and Learned Socs. 1960-; recipient of numerous hon. degrees and awards; medals include Gold Medal, Royal Inst. Agricultural Sciences 1960; Fermat Medal, Acad. of Sciences of Toulouse 1961; Vermeil Medal, French Soc. for Research and Invention (Paris) 1968; Hon. Vermeil Medal, French Soc. for Encouragement au Progrès (Paris) 1969; Grand Gold Medal "Archimedes" for Research and Invention 1970; Commdr. Royal Order of Georege I and Commdr. Royal Order of Phoenix (Greece) and many foreign decorations. *Publications:* about 300, the most recent being: Evolution de la pensée vers une nouvelle conception panthéistique de l'Univers 1968, Considérations philosophiques sur un nouveau continuum hypothétique espace-temps-matière-esprit et sur le sens physique du "rien" absolu 1969, Considérations sur la naissance de l'univers, conduisant à une théorie de sa croissance progressive à partir d'une hypothétique particule primitive de continuum espace-temps-matière-esprit 1970, Essai d'un traitement philosophique de la création de l'univers comme système physiquement non-clos 1971, Les points noirs de Schwarzschild et les points blancs de Hjellming considérés comme deux étapes successives d'un seul phénomène dans un univers en croissance progressive 1971, L'intelligence humaine—une modeste étape à l'échelon terrestre dans l'évolution de l'esprit absolu universel 1971, Philosophical considerations in connection with the Emergence of the Universe 1973, The Multiple Successive Small Bangs Theory of the Universe 1973, Life in the Universe 1974, Evolution of the Universe 1977. *Leisure interest:* classical music. *Address:* P.O. Box 1949, Athens, Greece. *Telephone:* 524-6902.

SANTOS, João Oliveira, LL.D.; Brazilian international trade and banking expert; b. 26 Oct. 1914, Rio de Janeiro; s. of João Barbosa dos Santos and Albertina de Oliveira Santos; m. Margarita Beatriz Williams 1959; two s. one d.; ed. Universidade do Brasil and American Univ., Washington, D.C.; at Ministry of Labour, Industry and Commerce, Brazil 1935, 1942, 1950-54; on active service in Brazilian Air Force 1943-45; Lecturer American Univ., Washington 1945-46; Deputy Dir. and Acting Dir. Dept. of Econ. and Social Affairs, Gen. Secr. OAS, Washington, D.C. 1955-58; Sec.-Gen. Latin American Coffee Agreement 1958-59, Coffee Study Group, Wash. 1958-75, Int. Coffee Agreement, Washington, D.C. 1959-63; Exec. Dir. Int. Coffee Org., London 1963-68; Operations Man. and Vice-Pres. in charge of the fund for Special Operations, Inter-American Devt. Bank, Washington, D.C. 1968-74; Dir. Laureano S.A., Stock Brokers and Sociedade Industrial de Equipamentos Especiais Ltda. (both Rio de Janeiro); Consultant on Commodities for UN 1962; Order of the Sun of Peru, Order of Honour, Merit of Haiti and Order of Rubén Darío of Nicaragua, Order of San Carlos (Colombia), Order of Merit (Ecuador), Order of José Matías Delgado (El Salvador), Order of Duarte Sánchez y Mella (Dominican Republic), Order Infante Dom Henrique (Portugal), Medal Santos Dumont (Brazil) and others. *Address:* Avenida Rio Branco, 157, Rio de Janeiro, Brazil (Office); Avenida Vieira Souto, 442 Apartamento 202, Rio de Janeiro, Brazil; also 7214 Park Terrace Drive, Alexandria, Virginia., 22307, U.S.A. (Home).

SANTRY, Arthur J., Jr.; American business executive; ed. Williams Coll. and Harvard Law School; fmr. Partner, Putnam, Bell, Santry and Ray (law firm), Boston, Mass.; joined Combustion Eng. Inc. 1956, Dir. 1957, Pres and Chief Exec. Officer 1963-; Dir. American Arbitration Assn., Bristol-Myers Co., Emhart Corpn., Jenney Oil Co., Inc., North American Reassurance Co., Putnam Trust Co., N. American Reinsurance Corpn., Arkwright-Boston Mfrs., Mutual Insurance Co. *Address:* Combustion Engineering Inc., 900 Long Ridge Road, Stamford, Conn. 06902, U.S.A.

SAOUMA, Edouard; Lebanese agricultural engineer and international official; b. 6 Nov. 1926, Beirut; m. Inès Forero; one s. two

d.; ed. St. Joseph's Univ. School of Eng., Beirut, Ecole nat. Supérieure d'Agronomie, Montpellier, France; Dir. Tel Amara Agricultural School 1952-53, Nat. Centre for Farm Mechanization 1954-55; Sec.-Gen. Nat. Fed. of Lebanese Agronomists 1955; Dir.-Gen. Nat. Inst. for Agricultural Research 1955-62; mem. Governing Board, Nat. Grains Office 1960-62; Lebanese del. to FAO 1955-62, Deputy Regional Rep. for Asia and Far East 1962-65, mem. of Secr. 1963-, Dir. Land and Water Devt. Div. 1965-75, Dir.-Gen. of FAO 1976-; Minister of Agric. Fisheries and Forestry Oct.-Nov. 1970; Accademico Corrispondente dell' Accademia Nazionale di Agricultura (Italy); Dr. h.c. (Univs. of Peru, Korea, Uruguay, Indonesia); Order of the Cedar (Lebanon), Said Akl Prize (Lebanon); Chevalier du Mérite agricole (France), Grand Croix Ordre nat. du Chad, du Ghana, de la Haute Volta. *Publications:* technical publs. in agriculture. *Address:* Food and Agriculture Organization of the United Nations, Via delle Terme di Caracalla, 00100 Rome, Italy. *Telephone:* 5797.

SAPEIKA, Norman, M.D., PH.D., F.R.S.S.AF.; South African professor of pharmacology; b. 17 Jan. 1909, Oudtshoorn; s. of Raphael and Leah Sapeika; m. 1st Simone Gusta Silverberg 1942, two s. one d.; m. 2nd Sara Lea Bobrov 1976; ed. Boys High School, Kimberley and Univ. of Cape Town. Wernher Beit Asst. in Pharmacology, Univ. of Cape Town 1933-47, Senior Lecturer 1944-55, Assoc. Prof. 1956-65; Prof. of Pharmacology 1965-74, Emer. Prof. 1975-; Pres. Royal Soc. of S. Africa 1972-74; Pres. Athenaeum Trust 1970-76; Medical Dir. R & C Pharmaceuticals (Pty.) Ltd. 1975-77; mem. Drugs Control Council 1966-71. *Publications:* Actions and Uses of Drugs 1943, 9th edn. 1972, Food Pharmacology 1969, and chapters in books. *Address:* 70 Mervot Street, Savyon 56915, Israel *Telephone:* 755965.

SAPENA PASTOR, Raúl, B.SC., B.LITT., LL.D.; Paraguayan university professor and politician; b. 9 Oct. 1908; m. Juana Brugada Montero; two s. two d.; ed. Univ. Paraguay; fmr. mem. Supreme Court of Justice of Paraguay, Pres. Civil and Commercial Court of Appeals, Attorney-Gen., Judge Civil and Criminal Courts; Minister to Bolivia 1941, to Uruguay 1942-44; Amb. to Argentina 1948-49; Del. to numerous Inter-American and Int. Confs.; fmr. Prof. of Public Int. Law and Prof. of Political Economy, School of Law and Social Sciences and Dean of the School, Prof. of Private Int. Law at School of Econ. Sciences, Univ. Paraguay; Rector Nat. Univ. of Paraguay 1954-55; Counsellor of State 1947-48, 1956-; fmr. Pres. Banco de Paraguay, Dir. Banco de la República del Paraguay, Sec. to Ministry of Economy, Legal Adviser to Foreign Ministry; Minster of Foreign Affairs 1956-76; mem. Perm. Court of Arbitration, The Hague 1945-; mem. Nat. Senate 1973-; Paraguayan Rep. Inter-American Council of Jurisprudence since its inception; Vice-Pres. Gen. Assembly of UN 1957; Pres. Paraguayan Del. to Gen. Assembly of UN 1958-; Pres. Nat. Comm. for Codification of Int. Law, Nat. Council Foreign Trade; Prof. Private Int. Law, School of Law and Social Sciences; Vice-Pres. Paraguayan Acad. Law and Social Sciences; mem. American Soc. Int. Law; hon. mem. Inst. Spanish Culture, Madrid; numerous foreign decorations. *Publications include:* Derecho Internacional Privado, Vol. I 1944. *Address:* Venezuela 157, Asunción, Paraguay.

SAPORTA, Marc, B.A., PH.M., LL.D.; French writer; b. 20 March 1923; ed. Univs. of Paris and Madrid; worked in the Dept. of Cultural Activities UNESCO 1948-53, Asst. Editor Informations et Documents 1954-71, Editor 1971-78; Chief Dept. of Publs. Int. Communication Agency (Paris) 1978-; Literary Critic L'Express 1954-71, La Quinzaine Littéraire 1966-71. *Publications:* Les lois de l'air 1953, La convention universelle du droit d'auteur de l'UNESCO 1952, Le grand défi: U.S.A.-U.S.S.R., I 1967, II 1968 (Editor and Co-Author), Histoire du roman américain 1970, La vie quotidienne contemporaine aux U.S.A. 1972, Go West 1976; Novels: Le furet 1959, La distribution 1961, La quête 1961, Composition numéro un 1962, Les invités 1964. *Address:* 9 rue Saint-Didier, 75016 Paris, France.

SARACENO, Pasquale, PH.D.; Italian economist; b. 14 June 1903; ed. Milan Univ.; joined Istituto per la Ricostruzione Industriale (I.R.I.) 1933, now General Economic Adviser; Prof. of Industrial Econs., Univ. Inst. of Venice (now Univ. degli Studi) 1959-77; Pres. SVIMEZ (Southern Italy Industrial Development Assen.); Pres. ITALSIEL (Electronic Information Systems); mem. of Board, Cassa per il Mezzogiorno; Gold Medal Benemeriti Scuola, Cultura ed Arte, Gran Croce al merito della Repubblica Italiana. *Publications:* Elementi per un piano economico 1949-52 1948, Lo sviluppo economico dei paesi sovrapopolati 1952, L'IRI-Origini, ordinamente e attività 1956, Iniziativa privata e azione pubblica nei piani di sviluppo economico 1959, Lo Stato e l'Economia 1963, La produzione industriale 1967, Ricostruzione e Pianificazione 1943-1948 1969, L'economia dei Paesi industralizzati 1970, La programmazione negli anni 70 1969, La produzione industriale 1973, Il governo delle aziende 1973, Intervista sulla ricostruzione 1943-53 1977. *Address:* 8 Via Fratelli, Rome, Italy.

SARAGAT, Giuseppe; Italian politician; b. 19 Sept. 1898; ed. Universita degli Studi, Turin. Bank Clerk 1919-26; joined Socialist Party 1922; Sec. Turin Branch 1922, associated with party magazine Rivoluzione Liberale; lived in exile first in Vienna 1926-35, then Paris 1935-43; associated with Italian Socialist weeklies Rinascità and Libertà; returned to Italy 1943, mem. executive of Socialist Party; Minister without Portfolio 1944; Pres. Constituent Assembly 1946; Ambassador to France 1945-47; Sec. Italian Socialist Labour Party 1947-64; Deputy Prime Minister 1947-49, 1954-57; Minister of Merchant Marine 1947-49; Minister of Foreign Affairs 1963-64; fmr. mem. of the Senate; Pres. of Italian Repub. 1964-71; Pres. Social Democratic Party 1975-; Life Senator. *Publications:* L'humanisme marxiste, Socialismo e libertà 1944, Quaranta anni di lotta per la democrazia, scritti e discorsi 1925-1965 1966. *Address:* c/o Partito Socialista Democratico, Via Santa Maria in Via 12, 00187 Rome. Italy.

SARASIN, Alfred Emanuel; Swiss banker; b. 13 April 1922, Basel; s. of Bernhard and Rosemarie Sarasin-La Roche; m. Colette de Loriol 1950; two d.; ed. secondary educ. in Geneva and New York. Partner, A. Sarasin & Cie., bankers 1950-; mem. Board, Swiss Bankers' Assen. 1958-, Chair. 1965, now Pres.; Pres. Basel Stock Exchange for 7 years; Liberal mem. Great Council of Canton of Basel City for 5 years, resigned; Pres. Soc. Int. Pirelli S.A., Union Trading Co. Ltd., Grands Magasins Jelmoli S.A., Kraftwerke Brusio S.A.; mem. Board of about 20 industrial and commercial cos., incl. Burlington Schappe Ltd., Hero Conserven Lenzburg, Motor Columbus S.A.; mem. Board, Basel and Swiss Chambers of Commerce; Chair. Budget Comm., ICC. *Leisure interests:* shooting, fishing. *Address:* Freiestrasse 107, CH-4002 Basel; Hinterwenkenweg 3, CH-4125 Riehen, Switzerland (Home). *Telephone:* 23-00-55 (Office); 49-92-75 (Home).

SARASIN, Pote; Thai lawyer, politician and international administrator; b. 25 March 1907, Bangkok; m.; five s. one d.; ed. Wilbraham Acad., Mass., and Middle Temple, London; practised law in Thailand 1933-45; mem. Senate 1948-50; Deputy Minister of Foreign Affairs 1948, Minister of Foreign Affairs 1948-50; represented Thailand on UN Korea Commission 1950; Amb. to U.S.A. 1952-57; Del. to UN 1952-55; Prime Minister 1957-58; Sec.-Gen. SEATO 1957-63; Minister of Econ. Affairs and Nat. Devt., Thailand 1963-68; Minister of Econ. Affairs Feb. 1968-69; Vice-Chair. United Thai People's Party 1968; Deputy Prime Minister and Minister of Nat. Devt. 1969-71; mem. Nat. Exec. Council and Dir. Econ., Finance and Industry Affairs 1971-72; mem. Thai Bar Assen. *Address:* Saha-Pracha-Thai, 1/226, Sri Ayudhya, Dusit, Bangkok, Thailand.

SARBANES, Paul Spyros, B.A., LL.B.; American lawyer and politician; b. 3 Feb. 1933, Salisbury, Md.; s. of Spyros P. and Matina (née Tsigounis) Sarbanes; m. Christine Dunbar 1960; two s. one d.; ed. Princeton Univ., Balliol Coll., Oxford, Harvard Law School. Rhodes Scholar, Balliol Coll., Oxford 1954-57; admitted to Maryland Bar 1960; Law Clerk to Circuit Judge 1960-61; Assoc., Piper and Marbury, Baltimore 1961-62; Admin. Asst. to Chair. Council of Econ. Advisers 1962-63; Exec. Dir. Charter Revision Comm., Baltimore 1963-64; Assoc., Venable, Baetjer & Howard, Baltimore 1965-70; mem. Md. House of Dels. 1967-71, U.S. House of Reps. 1971-76, Senator from Md. Jan. 1977-; Democrat. *Address:* United States Senate, Capitol Hill, Washington, D.C. 20510, U.S.A.

SARC, Omer Celâl, DR.RER.POL.; Turkish professor and administrator; b. 1901, Istanbul; s. of Celâl Bey (former Cabinet Minister); m. Cenan Paker 1937; one s.; ed. Robert Coll., Istanbul, Handelshochschule, Berlin, and Univ. of Berlin. Asst. Prof. of Econs., Univ. of Istanbul 1926, Assoc. Prof. of Applied Econs. and Statistics 1933, Prof. of Applied Econs. and Statistics 1938-55, 1957-, Dean of Faculty of Economics 1936-48, Rector of the Univ. 1949-51, 1963-65, Dir. Inst. of Statistics 1953-; Visiting Prof., Columbia Univ., School of Int. Affairs 1954-55, 1967-68; Chief, Middle East Unit, Dept. of Econ. Affairs, UN, New York 1955-56; Dir. Econ. and Social Affairs, Council of Europe 1959-61; Officier, Légion d'honneur, German Great Cross of Merit; Hon. Dr. Jur. (Fouad I Univ., Cairo). *Publications:* Agricultural and Industrial Policy 1934, Theory of Statistics 1935, The Foundations of Turkish Economy 1950. *Address:* Kalipci Sok 156-1, Divan AP, Tesvikiye, Istanbul, Turkey. *Telephone:* 477867.

SARDANIS, Andreas Sotiris; Zambian company director; b. 13 March 1931, Cyprus; m. Danae Gavas 1962; two s.; ed. in Cyprus; emigrated to Zambia 1950; managerial posts in trading and transport undertakings 1950-62; Chair. and Man. Dir. Industrial Devt.

Corpn. 1965-70; Perm. Sec. Ministry of Commerce, Industry and Foreign Trade 1968; later Perm. Ministry of Trade, Industry and Mines, and Perm. Sec. Ministry of Devt. and Finance; Man. Dir. Zambia Industrial and Mining Corpn. Ltd. (ZIMCO) and Chair. of its subsidiaries, Indeco Ltd, and Mindeco Ltd. April 1970-71; Perm. Sec., Ministry of State Participation April-Dec. 1970; Joint Man. Dir. of new co. to streamline Lonrho's interests W. of the Zambesi, Jan.-May 1971; Man. Dir. Sardanis Assocs. 1971-. *Address:* Sardanis Associates Services Ltd., Excel House, 42 Upper Berkeley Street, London W1H 7PL, England; Sardanis Associates (Zambia) Ltd., P.O. Box 2943, Lusaka, Zambia. *Telephone:* 73027 (Lusaka).

SARELL, Sir Roderick Francis Gisbert, K.C.M.G., K.C.V.O.; British diplomatist (retd.); b. 23 Jan. 1913, Dunkirk, France; s. of Philip Charles Sarell; m. Pamela Muriel Crowther-Smith 1946; three s.; ed. Radley and Magdalen Coll., Oxford. Consular Service 1936-46, Vice-Consul, Persia 1937, Italian E. Africa 1939, Iraq 1940-42, Second Sec. Addis Ababa 1942-46; Foreign Service 1946-73, Rome, Bucharest, Foreign Office, Rangoon 1946-56; Consul-Gen., Algiers 1956-59; Counsellor, Foreign Office 1959-63; Amb. to Libya 1964-69, to Turkey 1969-73. *Leisure interests:* walking, swimming, music. *Address:* The Litten, Hampstead Norreys, Newbury, Berks., England. *Telephone:* Hermitage 201274.

SARGANT, William Walters, M.A., M.B., F.R.C.P., D.M.P.; British psychiatrist and author; b. 1907, Highgate, London; s. of Norman Sargant and Alice Walters; m. Margaret Gien 1940; ed. Leys School, St. John's Coll., Cambridge and Geraldine Harmsworth School, St. Mary's Hospital, Paddington. Asst. to Medical Professorial Unit, St. Mary's Hospital 1932-34; Medical Officer and Physician Maudsley Hospital, London 1935-49; Asst. Clinical Dir. Sutton Emergency Hospital 1939-47; Physician in Charge of Dept. of Psychological Medicine, St. Thomas's Hospital, London 1948-72; Rockefeller Travelling Fellow and Research Fellow, Harvard Medical School, U.S. 1938-39; Visiting Prof. of Neuropsychiatry, Duke Univ. Medical School, U.S. 1947-48; Registrar Royal Medico-Psychological Assn.; Pres. Section of Psychiatry, Royal Soc. of Medicine 1956-57; Examiner in Psychological Medicine, Conjoint Board of England 1960-63; Assoc. Sec. World Psychiatric Assn. 1961-66; Lecturer American Soc. of Biological Psychiatry and New York Coll. of Medicine 1964; Hon. F.R.C. Psych.; Starkey Medal, Royal Soc. of Health 1973, Mark Twain Award 1975. *Publications:* Psychiatric papers in medical journals; Physical Methods of Treatment in Psychiatry 1944, 5th edn. 1963, Battle for the Mind 1957, The Unquiet Mind 1967, The Mind Possessed 1973. *Address:* 19 Hamilton Terrace, London, N.W.8, England. *Telephone:* 01-286 7702.

SARGENT, Francis Williams; American fmr. state governor; b. 29 July 1915, Hamilton, Mass.; s. of Francis W. and Margery (Lee) Sargent; m. Jessie Fay 1938; one s. two d.; ed. Noble and Greenough School, and Mass. Inst. of Technology. Architect, Coolidge, Shepley, Bullfinch and Abbot 1939-41, Sargent & Sweeney 1941-42; served, U.S. Army 1942-45; founder-owner Goose Hummock Shop Inc., Orleans 1946; Dir. Mass. Div. of Marine Fisheries 1947-56; U.S. Commr., Int. Comm. for the Northwest Atlantic Fisheries 1951-62; Chair., Atlantic States Marine Fisheries Comm. 1956-59; Mass. Water Resources Comm. 1956-59; Commr. Mass. Dept. of Natural Resources 1956-59; Exec. Dir. U.S. Outdoor Recreation Resources Review Comm 1959-62; Chair. Merrimac Valley Flood Control Comm. 1956-59; Dir. Mass. Div. of Fisheries and Game 1963; Adviser, Calif. Park and Recreation 1964-68; Assoc. Commr. Mass. Dept. of Public Works 1963-65, Commr. 1965-66; Lieut. Gov. of Mass. 1966-69; Gov. of Mass. 1969-74; Sr. Lecturer Harvard Graduate School of Design, M.I.T. School of Architecture and Planning, M.I.T.-Harvard Joint Center for Urban Studies 1975-76; weekly syndicated columnist, TV and radio commentator 1978-; Fellow, Inst. of Politics, John F. Kennedy School of Govt., Harvard 1975; Republican mem. or trustee of various educ. and other public orgs.; numerous hon. degrees. *Leisure interests:* skiing, boating, fishing, golf. *Address:* 16 Arlington Street, Boston, Mass. 02116, U.S.A. *Telephone:* 617-247-0006.

SARGENT, John Turner; American publisher; b. 26 June 1924. Doubleday and Co. Inc., Editor 1949-50, Advertising and Publicity, Trade Sales manager 1950-60, Vice-Pres, and Dir. 1960-61, Pres. 1961-; Trustee East River Savings Bank, New York Public Library, New York Zoological Soc. *Address:* Doubleday and Co. Inc., 245 Park Avenue, New York, N.Y. 10017 (Office); Halsey Lane, Watermill, N.Y. 11976, U.S.A. (Home).

SARIN CHHAK, Dr.; Cambodian diplomat and politician; fmr. Amb. to Egypt; Minister of Foreign Affairs, Royal Govt. of Nat. Union 1970-76 (in Phnom-Penh 1975-76).

SARKIS, Elias, L. EN D.; Lebanese banker and politician; b. 20 July 1924; ed. Université Saint Joseph, Beirut; fmr. Magistrate, Cour des Comptes; Pres. Management Cttee. of Intra Bank 1967; fmr. Dir.-Gen. Cabinet of Presidency; Gov. Bank of Lebanon 1968-76; Pres. of Lebanon Sept. 1976-; Pres. Comm. Supérieure des Banques; Medal of Independence 1st Class, Jordan. *Address:* Présidence de la République, Palais de Baabda, Beirut; Mar Takla Beirut, Lebanon. (Home). *Telephone:* 280-561 (Home).

SARLÓS, István; Hungarian politician; b. 30 Oct. 1921, Budapest; ed. Budapest Univ.; joined Working-Class Movement and the Social Democrat Party 1939; held various mass organizational and Party positions 1945-59; First Sec. of 6th District Cttee. Hungarian Socialist Workers' Party 1959-63, mem. Cen. Cttee. 1966-; Chair. Budapest Metropolitan Council Exec. Cttee. 1963-70; head of editorial Board daily Népszabadság 1970-74; Gen. Sec. Patriotic People's Front 1974-; mem. Politburo, HSWP Cen. Cttee. 1975-; Labour Order of Merit, Golden degree 1970. *Leisure interest:* reading. *Address:* National Council of the Patriotic People's Front, Belgrád rakpart 24, 1360 Budapest V, Hungary. *Telephone:* 182-850.

SARMENTO RODRIGUES, Vice-Admiral Manoel Maria, K.C.V.O., O.B.E.; Portuguese naval officer and overseas administrator; b. 20 June 1899, F.E. Cinta; s. of A.M. Rodrigues and Isabel Morais Sarmento; m. Margarida Guerra Jungueiro 1935; one s. two d.; ed. Univ. of Coimbra and Naval School, Lisbon. Lieutenant 1922; Commdg. Officer torpedo boat Lis 1924; A.D.C. to Gov.-Gen. of Portuguese India 1925; Commdg. Officer gunboat Faro 1929; Port Capt., Chinde, Portuguese E. Africa 1931; Commdg. Officer river gunboat Tete 1932; Port Capt. Quelimane, Portuguese E. Africa 1935; Naval Staff 1938; Chief of Staff, Light Flotilla 1939, Home Fleet 1940; Commdg. Officer destroyer Lima 1941; Gov. of Portuguese Guinea 1945; Prof. Colonial School, Lisbon 1949-; Deputy for Mozambique, Nat. Assembly 1949-57; Portuguese Del. Comm. of Technical Co-operation in Africa South of the Sahara 1949, 1950; Commdg. Officer Fleet Air Arm 1950; Minister for Overseas Provinces 1950-55; Pres. I.N.C.I.D.I. 1955-57; Commdg. Officer Portuguese Naval Squadron 1955-; Commdr. Portuguese Naval Group, Supt. Naval Acad. 1957-61; Pres. African Advisory Cttee. ILO 1959; Advisory Cttee. Bilderberg Meetings 1959; Gov.- Gen. and C.-in-C. Armed Forces, Mozambique 1961-64; Pres. Centre of Maritime Studies, Lisbon; Grand Cross Portuguese Orders of Christ, Empire, Avis and Prince Henry; Commdr. Légion d'honneur; U.S. Legion of Merit; Grand Cross Lion Belgique, Gregorius Magnus Vatican; Crown of Thailand, Cedar of Lebanon, Naval Merit of Spain, D. S. y Mella Dominican Repub.; mem. Acad. des Sciences d'Outre Mer, Paris. Acad. Marine, Paris and Acad. of Sciences, Lisbon; hon. citizen of many Portuguese towns and overseas territories, of the city of Oakland, Calif. and of the state of Calif. *Publications:* The Heroic Life of Nelson 1941, The Battle of the Atlantic 1942, Anchorages of the Azores Islands 1943, The Government of Guinea 1949, Unity of the Portuguese Nation 1956, The Presence of Mozambique in the Life of the Nation 1965, and several other books and articles. *Leisure interests:* sailing, big game hunting in Africa, whaling in Azores. *Address:* R. Jorge Alvares, 3-5° Lisbon 3, Portugal. *Telephone:* 612381.

SARNOFF, Robert W.; American electronics and communications executive; b. 2 July 1918, New York; s. of late Gen. David Sarnoff and Lizette Hermant; m. Anna Moffo (*q.v.*) 1974; three d. (by two previous marriages); ed. Harvard Univ. and Columbia Univ. Law School; with Radio Div., New York World's Fair 1939; Office of the Co-ordinator of Information 1941; served in U.S. Navy, including duty in South Pacific 1942-45; exec. in Cowles publishing and broadcasting enterprises in Des Moines and New York 1945-48; with Nat. Broadcasting Co. (NBC) 1948-66, mem. Board of Dirs. 1953-, Exec. Vice-Pres. 1955-58, Chair. and Chief Exec. Officer 1958-66; Dir. RCA Corpn. 1957, Pres. 1966-71, Chief Exec. Officer 1968-75, Chair. of Board 1970-75; Dir. RCA Global Communications, Inc., Hertz Corpn., Banquet Foods Corpn., Coronet Industries, Mfrs. Hanover Trust Co., N.Y. Stock Exchange, American Home Products Inc.; Trustee, John Fitzgerald Kennedy Library Corpn.; Chair. Board of Business Cttee. for the Arts; mem. U.S. Foundation for Int. Scouting; mem. Econ. Club of N.Y.; Fellow, Imperial Coll. of Service and Technology 1973-; Hon. Fellow, Royal Television Soc. 1973-; Officer Ordre des Arts et des Lettres 1966; Commdr. Italian Order of Merit 1968; Belgian Order of Crown 1971; Commdr. Cross, First Class, Austria; other int. awards; hon. doctorates from 16 American colls and univs. *Address:* 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A. *Telephone:* 212-CO-5-5900.

SAROYAN, William; American writer; b. 31 Aug. 1908, Fresno, Calif.; s. of Armenak and Takoohi Saroyan; m. Carol Marcus 1943

(dissolved 1949); one s. one d. *Publications:* short stories: The Daring Young Man on the Flying Trapeze 1934, Inhale and Exhale, Three Times Three, The Gay and Melancholy Flux 1936, Little Children 1937, Love, Here is My Hat, The Trouble with Tigers 1938, Peace, It's Wonderful 1939, Saroyan's Fables, My Name is Aram 1940, Dear Baby 1944, The Assyrian 1950, The whole Voyald 1957; plays: My Heart's in the Highlands, The Time of Your Life (Pulitzer Prize) 1939 (film 1947), Love's Old Sweet Song 1940, The Beautiful People 1941, Sweeney in the Trees, Across the Board on Tomorrow Morning 1941, Razzle Dazzle (16 plays) 1942, Get Away, Old Man 1946, Jim Dandy, Fat Man in ■ Famine 1947, The Slaughter of the Innocents 1952, The Cave Dwellers 1956, Sam, The Highest Jumper of Them All (or The London Comedy) 1960, Here Comes There Goes you Know Who (autobiography) 1962; novels: The Human Comedy 1943 (film 1944), The Adventures of Wesley Jackson 1946, Rock Wagram 1951, Tracy's Tiger 1952, The Laughing Matter 1955, Papa, You're Crazy 1957, Boys and Girls Together 1963, One Day in the Afternoon of the World 1964, Not Dying 1966, Look at Us (with A. Rothstein) 1967, I Used to Believe I Had Forever, Now I'm Not So Sure (short stories) 1968, Letters from 74 Rue Taitbout, or Don't Go, But If You Must, Say Hello to Everybody 1969, Days of Life and Death and Escape to the Moon 1971, Places Where I've Done Time (autobiography) 1973, The Tooth and My Father 1974. *Address:* 2729 W. Griffith Way, Fresno, Calif. 93705, U.S.A.

SARPANEVA, Timo Tapani; Finnish designer; b. 31 Oct. 1926; s. of Akseli Johannes Sarpaneva and Martta Sofia Karimo; m. 1st Ann-Mari Holmberg (divorced) 2nd Marfatta Svennerig; three s. one d.; ed. Industrial Art Inst., Helsinki. Designer for A. Ahlström Oy, Iittala Glassworks 1950-; Teacher in Textile Printing and Design, Industrial Art Inst. Helsinki 1953-57; Artistic Dir. Porin Puuvilla Cotton Mill 1955-66; AB Kinnasand Textile Mill, Sweden 1964-; Designer for Juhava Oy, Jughans AG, Fed. Repub. of Germany, Opa Oy, Primo Oy,; Rosenlew Oy, Rosenthal AG, Fed. Repub. of Germany, Villayhtymä; invited by Brazilian Govt. to lecture on and exhibit Finnish art glass 1958; Exhbn. architect for Finnish industrial art exhbns. in most European countries, Japan and U.S.A.; architect for Finnish Section, Expo 67, Montreal; private exhbns. in Finland, Sweden, Norway, Denmark, Iceland, Netherlands, England, Germany, France, Italy, U.S.A., Brazil, U.S.S.R.; mem. Board of Dirs. Asscn. of Arts and Crafts, State Cttee. of Design, Board of Inst. of Industrial Design; numerous awards, including three Grand Prix at Milan Triennali; Hon. Dr. of Design, Royal Coll. of Art, London 1967; Commdr. Order of Lion of Finland. *Address:* Via Navegna 7, Minusio, Locarno, Switzerland.

SARRAUTE, Nathalie, L. ÈS L., L. EN D.; French writer; b. 18 July 1902, Ivanovo, Russia; d. of Ilya Tcherniak and Pauline Chatounovski; m. Raymond Sarraute 1925; three d.; ed. Univs. of Paris and Oxford. Prix International de Littérature 1964. *Publications:* Tropismes 1939, Portrait d'un inconnu 1948, Martereau 1953, L'ère du soupçon 1956, Le Planétarium 1959, Les fruits d'or 1963, Le silence 1964, Le mensonge 1966, Entre la vie et la mort 1968, Isma 1970, Vous les entendez? C'est beau 1975, Disent les imbéciles 1976, Elle est là 1978. *Address:* 12 avenue Pierre 1 de Serbie, 75116 Paris, France.

SARRE, Claude-Alain; French industrialist; b. 10 April 1928, Douai; s. of Henri Sarre and Claudine Vau; m. Simone Allien 1952; two s. one d.; ed. Inst. d'Etudes Politiques, Paris; with Cie. Air France; joined Soc. André Citroën 1955, Commercial Dir. Jan.1968, Chair., Man. Dir. Soc. Automobiles Citroën and Soc. Commerciale Citroën Aug. 1968; joined Lainière de Roubaix-Prouvost Masurel S.A. 1970, Chair., Man. Dir. Dec. 1971-; Pres. Soc. Detim Holding 1973-; Chair. Inst. de Devt. Ind. 1975-; Dir. Soc. Sommer-Allibert 1976. *Address:* 25 avenue Gustave Delory, 59100 Roubaix, France. *Telephone:* 70-05-08.

SARRÜF, Füad, B.A., LL.D.; Lebanese author and university official; b. 20 Dec. 1900; s. of Hanna Sarrüf and Helen Juraidini; m. Lily Majdalany 1928; one d.; ed. Shwaifat Nat. Coll., and American Univ. of Beirut. Teacher and Headmaster, Lebanon 1919-22; Asst. Editor Al-Muqtataf (monthly), Cairo 1922-27, Editor 1927-44; Editor Al-Mukhtar (Arabic edition of Reader's Digest), Cairo 1943-47; Columnist, Al-Ahram (daily), Cairo 1948-51; Vice-Pres. in charge of Univ. Relations, American Univ. Beirut 1952-68; Editor Al-Abhath (Univ. Quarterly), Beirut 1959-65; started Dept. of Journalism, American Univ., Cairo 1935-43; Pres. Lebanese Nat. Comm. for UNESCO; mem. Exec. Board of UNESCO 1966-70, Vice-Pres. 1970-72, Pres. 1972-74; fmr. mem., later Sec., Vice-Pres. Egyptian Assn. for the Advancement of Science 1930-52; mem. Lebanese Nat. Research Council, Baalbek Int. Festival Cttee.; Hon. LL.D. (Univ. of The Pacific, Calif.) 1958; several decorations. *Publications:* Conquests of Modern Science, Pillars of Modern Science 1935, Horizons of Modern Science 1939, The Conquest Goes On 1944, Horizons Without End 1958, Man and the Universe 1961, Modern Science in Modern Society 1966, The Eternal Fire, numerous other books. *Leisure interests:* reading, science, bridge. *Address:* 55 rue du Caire, Hamra, Beirut, Lebanon. *Telephone:* 343-919

SARTRE, Jean-Paul; French writer; b. 21 June 1905; ed. Lycée Henri IV and Ecole Normale Supérieure, Paris; taught at Lycée du Havre, and later travelled in Egypt, Greece and Italy 1929-34; at Inst. Français, Berlin 1934; taught philosophy at Lycée Pasteur de Neuilly-sur-Seine 1935-39 and Lycée Condorcet; army 1939-41 (prisoner of war 1940-41); active in resistance movement 1941-44; resgnd. from teaching 1944; Founder Dir. Les Temps Modernes; was offered, but declined, Nobel Prize for Literature 1964; Dir. Tout 1970-74, Révolution 1971-74, Libération 1973-74, La France Sauvage 1973-. *Publications:* Philosophy: L'imagination 1936, Esquisse d'une théorie des émotions 1939, L'imaginaire, psychologie phénoménologique de l'imagination 1940, L'être et le néant 1943, Critique de la raison dialectique 1960, La transcendence de l'égo 1965; Novels: La nausée 1938, Le mur 1939, Les chemins de la liberté 1945; Plays: Les mouches 1943, Huis-clos 1944, Morts sans sépulture 1946, La putain respectueuse 1946, Les mains sales 1948, Le diable et le bon Dieu 1951, Nekrassov 1955, Les séquestrés d'Altona 1960; Essays: L'existentialisme est un humanisme 1946, Situations I-X 1947-, Qu'est-ce que la littérature? 1947, Baudelaire 1947, Saint Genet, comédien et martyr 1952, Merleau-Ponty vivant 1961, Le peintre sans privilège 1962, Marxisme et existentialisme (with Roger Garaudy) 1963, Les communistes et la paix 1969, Le spectre de Staline 1969, L'idiot de la famille (vol. III of biography of Flaubert) 1972; Screenplays: Les feux sont faits 1947, L'engrenage 1949; Les mots (memoirs) 1964. *Address:* Editions Gallimard, rue Sébastien-Bottin, 75007 Paris; 220 boulevard Raspail, 75014 Paris, France.

SARY, Ieng (see Ieng Sary).

SASAKI, Kunihiko; Japanese banker; b. 20 Dec. 1908, Formosa; s. of late Mikisaburo and Matsuko Sasaki; m. Shizue Shigemura 1937; two s. one d.; ed. Tokyo Univ.; Man. Planning and Co-ordination Dept., Head Office Business Div., Yasuda Bank 1947-48; Man. Planning and Co-ordination Dept., Head Office Business Div., Fuji Bank 1948-49, Man. Credit Dept. 1949-50, Deputy Man. Osaka Branch 1950-51, Chief Man. Foreign Div. 1951-54, Dir. 1954-57, Man. Dir. 1957-63, Deputy Pres. 1963-71, Chair. of Board and Pres. 1971-75, Dir. and Hon. Chair. 1975-. *Leisure interest:* reading. *Address:* The Fuji Bank Ltd., 1-chome, Otemachi, Chiyoda-ku, Tokyo; 18-10, 6-chome, Matsubara, Setagaya-ku, Tokyo, Japan (Home).

SASAKI, Tadashi; Japanese banker; b. 19 May 1907, Sendai City; s. of Totaro and Tane Sasaki; m. Kusuko Tsukasaki (deceased); one s. one d.; ed. Dept. of Econs., Tokyo Imperial Univ. (now Tokyo Univ.); joined the Bank of Japan 1930, Chief Personnel, Dept. 1946-47, Chief Co-ordination Dept. 1947-51, Chief, Business Dept. 1951-54, Exec. Dir. 1954-62, Vice-Gov. 1962-69; Gov. The Bank of Japan Dec. 1969-74; Chair. Keizai Doyukai (Japan Cttee. for Econ. Devt.) 1975-. *Leisure interests:* reading, golf. *Address:* 5-34-10 Yoyogi, Shibuya-ku, Tokyo 151, Japan (Home).

SASAKI, Yoshitake; Japanese politician; Dir. Atomic Energy Comm. 1956; mem. Liberal Democratic Party, fmr. Head of LDP Cttee. on Science and Technology; mem. House of Reps. (five times); Dir. Science and Technology Agency 1974-76. *Address:* House of Representatives, Tokyo, Japan.

SASSEN, Emmanuel Marie Joseph Antony, DR. JUR.; Netherlands politician and international administrator; b. 8 Sept. 1911, 's-Hertogenbosch; m. Sophie Marie Louise Romme 1939; one s. two d.; ed. Roman Catholic Univ., Nijmegen. Lawyer at 's-Hertogenbosch; mem. of Provincial Govt. of Noord-Brabant; mem. of Second Chamber; Vice-Pres. of Roman Catholic Democratic Party 1946-48; Minister for Overseas Territories 1948-49; Senator 1952-58; rep. Joint Assembly of European Coal and Steel Community 1952-58; mem. Euratom Comm. 1958-67; mem. Combined Exec. of EEC, ECSC and Euratom 1967-70; Perm. Rep. of Netherlands to European Communities 1971-. *Leisure interests:* music, swimming, and painting. *Address:* 62 rue Belliard, 1040 Brussels, Belgium. *Telephone:* 13-65-70.

SASSER, James Ralph, J.D.; American politician; b. 30 Sept. 1931, Memphis, Tenn.; m. Mary Ballantine Gorman 1962; two c.; ed. Vanderbilt Univ.; served U.S. Marine Corps Reverse 1958-65; Chair. Tennessee Democratic State Cttee. 1973-76; mem. U.S. Senate for Tennessee Jan. 1977-. *Address:* United States Senate, Capitol Hill, Washington, D.C. 20510, U.S.A.

SASSOU-NGUESSO, Col. Denis; Congolese army officer and Head of State. Member of Council of State 1976-77; First Vice-Pres., Mil. Cttee. of the Parti Congolais du Travail (PCT), charged with the co-ordination of PCT activities 1977-79, concurrently Minister of Nat. Defence; President of the Congo People's Republic March 1979-. *Address:* Office du Président, Comité Militaire du Parti Congolais du Travail, Brazzaville, Congo People's Republic.

SATHE, Ramchandra, M.D., F.R.C.P.; Indian physician; b. 28 Nov. 1905, Ahmedabad; s. of Vishwanath Mahadeo and Laxmibai Vishwanath Sathe; m. Dr. Kashibai R. Sathe 1935; one s. one d.; ed. Elphinstone High School, Elphinstone Coll., Grant Medical Coll., Bombay, and St. Bartholomew's Hospital, London. Emeritus Prof. of Medicine, Grant Medical Coll., Bombay; Hon. Dir. of Postgraduate Studies in Medicine, Grant Medical Coll., Bombay; Pres. Diabetic Assen. of India 1956-76; Pres. Assen. of Physicians of India 1960, Indian Medical Assen. 1962, World Medical Assen. 1962-63; Vice-Chancellor Bombay Univ. 1963-66; Deputy Pres. Elect, World Conf. on Medical Educ. 1966; mem. Health Survey and Planning Cttee., Drugs and Equipment Standards Cttee., Indian Pharmacopoeia Cttee., Nat. Formulary Cttee., Govt. of India; J. J. Gold Medal for Clinical Medicine; Hewlett Prize for Hygiene. *Publications include:* articles on nutritional oedema, cirrhosis of liver, treatment of hypertension, diabetes, jaundice, etc. *Address:* Nagindas Mansion, Girgaum Road, near Opera House, Bombay 400 044, India. *Telephone:* 356465.

SATPATHY, Nandini; Indian politician, social worker and short-story writer; b. 9 June 1931, Cuttack; d. of Kalindi Charan Panigrahi and Ratnamani Panigrahi; m. Shri Debendra Satpathy; two s.; ed. Ravenshaw Coll., Cuttack. Leader of the students' movements in Orissa and Sec. Girls Students' Assen. 1948-49; took part in many welfare activities, organized and became Sec. of the Orissa Women's Relief Cttee.; organized Orissa branch, Assen. of Social and Moral Hygiene in India 1958; associated with numerous nat. welfare, literary and other orgs.; mem. Rajya Sabba (Upper House) 1962-72; Deputy Minister for Information and Broadcasting (Orissa) 1966-69; Deputy Minister attached to Prime Minister 1969-70, Minister of State for Information and Broadcasting 1971-72; Leader Indian film del. to Moscow 1966, 1968 and Taskent 1972; del. Gen. Conf. UNESCO, Paris 1972; mem. Indian del. to Commemorative Session UN, N.Y.C. 1970; Chief Minister of Orissa 1972-73, 1974-76; resigned from Congress Party Feb. 1977; mem. All India Janata Party Exec. Cttee., Orissa Legis. Assembly; fmr. mem. Working Cttee. of the All India Congress Cttee. and Advisory Council Youth Congress; Chair, Orissa Flood and Cyclone Relief Cttee.; Chair. Children's Film Soc., Bombay; mem. Board of Dirs. Int. Centre of Films for Children and Young People, Paris 1968-; Editor Dharitri (Mother Earth) and Kalana (Assessment), monthly magazines; received many literary prizes. *Publications:* Ketoti Katha, collection of short stories. *Leisure interests:* reading and story writing. *Address:* 107 Surya Nagar, Bhubaneswar, Orissa; 60 Lodi Estate, New Delhi, India. *Telephone:* 53200, 50784 (Bhubaneswar); 618253 (New Delhi).

SATRE, Pierre Henri; French aeronautical engineer (retd.); b. 4 May 1909, Grenoble; s. of Alfred Satre and Maria (Fauché) Satre; m. Marie-Jeanne Servant 1941; two s. three d.; ed. Lycée Thiers, Marseille; Engineer, Centre d'essais du matérial aérien, Villa coublay 1934-36, service technique aéronautique 1936-41; Chief Engineer Toulouse engineering office of Soc. Sud Aviation 1941-59, Technical Dir. Sud Aviation 1959-69, Aircraft Technical Dir. 1970-73, Deputy to Aircraft Div. Dir. 1974; research on the following aeroplanes: Armagnac 1949, Grognard 1950, Caravelle 1955, Durandal 1956, Concorde 1969; retd. 1974; Laureate Acad. des Sciences; Commdr. Légion d'honneur, Médaille de l'Aéronautique, Commdr. Ordre nat. dur Mérite. *Address:* 2 allée du Lac Supérieur, 78110 Le Vesinet, France. *Telephone:* 071-11-86.

SATTERTHWAITE, Joseph Charles, A.M.; American diplomatist; b. 4 March 1900, Tecumseh, Michigan; s. of J. Newton Satterthwaite and Eva Perry Satterthwaite; m. Leyla Ilbars 1945; one d.; ed. Univ. of Michigan; entered U.S. Foreign Service 1924, first post at Stuttgart; Dept. of State, Washington 1926-27; Guadalajara, Mexico 1927-29; Mexico City 1929-34; Buenos Aires 1934-37; Baghdad 1937-40; Ankara 1940-44; Chargé d'affaires, Damascus 1944-45; Office of Near Eastern and African Affairs, Dept. of State 1945; Sec. U.S. Dels., North and Central American Regional Radio Conf., Mexico City 1933, and Inter-American Conf. for the Maintenance of Peace, Buenos Aires 1936; Sec.-Gen., U.S. Del., Int. Telecommunications Conf., Cairo 1938; Minister and Chief of U.S. Special Diplomatic Mission to the Kingdom of Nepal 1947; Dir. Office of Near Eastern and African Affairs 1948-49; Amb. to Ceylon 1949-53; Diplomatic Agent at Tangier, Morocco (with rank of Minister) 1953-55; Amb. to Burma 1955-57; Dir.-Gen. of Foreign Service 1957-58; Asst. Sec. of State for African Affairs 1958-61; Amb. to South Africa 1961-65; private consultant 1966-; mem. American Foreign Service Assen. (Pres. 1959), Diplomatic and Consular Officers (Pres. 1974-75), Middle East Inst.; mem. Board of Dirs. Int. Student House; mem. Washington Inst. of Foreign Affairs; Hon. LL.D. (Univ. of Michigan) 1958. *Leisure interests:* travel, music. *Address:* 5120 Upton Street, N.W., Washington, D.C. 20016, U.S.A. (Home). *Telephone:* 362-7260 (Home).

SAUD AL-FAISAL, H.R.H. Prince, B.A.(ECONS.) Saudi Arabian diplomatist; b. Riyadh; s. of late King Faisal; ed. Princeton Univ., U.S.A.; fmr. Deputy Minister of Petroleum and Mineral Resources; Minister of State for Foreign Affairs March-Oct. 1975, Minister of Foreign Affairs Oct. 1975-; leader del. to UN Gen. Assembly 1976; Special Envoy of H.M. King Khaled in diplomatic efforts to resolve Algerian-Moroccan conflict over Western Sahara, and the civil war in Lebanon; mem. Saudi Arabian del. to Arab restricted Summit, Riyadh, Oct. 1976 and to full Summit Conf. of Arab League, Oct. 1976; Founding mem. King Faisal's Int. Charity Soc. *Leisure interest:* reading. *Address:* Ministry of Foreign Affairs, Jeddah, Saudi Arabia.

SAUDI ARABIA, King of (see Khalid ibn Abdul Aziz).

SAUL, Ralph Southey, B.A., LL.B.; American lawyer and stock exchange official; b. 21 May 1922, Brooklyn, N.Y.; s. of Walter Emerson and Helen Douglas; m. Bette Jane Bertschinger 1956; one s. one d.; ed. Univ. of Chicago and Yale Law School; war Service, U.S. Naval Reserve 1943-46; attached to American Embassy, Prague 1947-48; admitted to District of Columbia Bar 1951, to New York Bar 1952; Assoc., firm of Lyeth and Voorhees, New York City 1951-52; Asst. Counsel to Gov. of New York State 1952-54; Staff Attorney, Radio Corpn. of America 1954-58; with Securities and Exchange Comm. 1958-65, Dir. Div. of Trading and Markets 1963-65; Vice-Pres. for Corporate Devt., Investors Diversified Services, Inc. 1965-66; Pres. American Stock Exchange 1966-71; Vice-Chair. First Boston Corpn. 1971-74; Chair., Chief Exec. Officer INA Corpn., Philadelphia. *Address:* INA Corporation, 1600 Arch Street, Philadelphia, Pa. 19101; 549 Avonwood Road, Haverford, Pa. 19041, U.S.A.

SAUNDERS, Sir John Anthony Holt, Kt., C.B.E., D.S.O., M.C.; British banker; b. 1917, London; s. of E. B. Saunders; m. Enid M. D. Cassidy 1942; two d.; ed. Bromsgrove School; British Army 1940-45; rejoined Hongkong and Shanghai Banking Corpn. 1945, Chair. 1964-72, Chair. London Advisory Cttee. 1972-77; mem. Exec. Council Hong Kong Govt. 1966-72; Chair. of Stewards, Royal Hong Kong Jockey Club 1967-72; Chair. Int. Commercial Bank Ltd. 1972-, Amalgamated Metal Corpn. Ltd. 1977-; Dir. P & O SN Co., Rediffusion Ltd., World Shipping and Investment Co., Hong Kong, World Maritime Ltd., Bermuda; Hon. D.Sc. (Hong Kong) 1969; Commdr. Order of Prince Henry the Navigator (Portugal) 1966. *Leisure interest:* travel. *Address:* The Dairy House, Maresfield Park, Uckfield, Sussex, England.

SAUNDERS, Stuart Thomas, A.B., LL.B.; American lawyer and transport executive; b. 16 July 1909; ed. Roanoke Coll. and Harvard Univ. Law School; Law practice, Washington, D.C. 1934-39; mem. firm Douglas, Obear and Campbell 1936-39; Asst. Gen. Solicitor Norfolk & Western Railway Co. 1939-54, Gen. Counsel 1954-56, Exec. Vice-Pres. 1956-58, Pres. 1958-63; Chair. Board and Chief Exec. Officer Pa, Railroad Co. 1963-70, Consultant 1971-; Dir. Chase Manhattan Bank, U.S. Steel Corpn., Equitable Life Assurance Soc., Georgia-Pacific Corpn., First Pa. Banking and Trust Co., Bell Telephone Co. of Pa., First Nat. Exchange Bank of Va., Philadelphia Saving Fund Soc., Virginia Hot Springs Inc., Philadelphia Orchestra Assen.; Trustee several educational orgs.; mem. President's Advisory Cttee. on Labour-Management Policy. *Address:* 801 East Main Street, Richmond, Va. 23219; 202 Nottingham Road, Richmond, Va. 23221, U.S.A. (Home).

SAUNIER-SEÏTÉ, Alice Louise; French educator and politician; b. 26 April 1925, Saint-Jean-le-Centenier; d. of Daniel and Marie-Louise (Lascombe) Saunier; m. 1st Elie-Jacques Picard 1947; two s.; m. 2nd Jérôme Seïté (deceased); ed. Lycée de Tournon, Facultés des Lettres et des Sciences de Paris, Ecole nat. des langues orientales vivantes; Attachée, then Chargée de recherche, Nat. Centre for Scientific Research (C.N.R.S.) 1958-63; lecturer in geography, faculté des lettres, Rennes 1963-65, Prof. 1965-69; mem. Nat. Cttee. for Scientific Research 1963-70; mem. Perm. Section C.N.R.S. 1967-70; Dir. Collège littéraire universitaire, Brest 1966-68, Dean of faculté des lettres, 1968-69; Dir. Inst. universitaire de technologie, Sceaux 1970-73; Prof. Univ. of Paris XI 1969-73, Vice-Pres. 1970-71; Rector, Acad. of Rheims 1973-76; Sec. of State for Univs. 1976-77, Minister of Univs. Jan. 1978-; Town Councillor, Monso 1971-; Pres. Corsican Inst. of Prehistoric Studies; mem. German Soc. of Polar Studies; Chevalier de la Légion d'honneur;

Medaille d'or de la jeunesse et des sports; Medal of C.N.R.S.; Medal of Société de géographie de Paris. *Leisure interests:* fencing, sea fishing. *Address:* Ministère des universités, 61-65 rue Dutot, 75732 Paris, France.

SAUVAGNARGUES, Jean Victor; French diplomatist and politician; b. 2 April 1915, Paris; m. Lise Marie L'Evesque 1948; two s. two d.; ed. Ecole Normale Supérieure; Ministry of Foreign Affairs 1941-, attached to French Embassy, Bucharest, later on staff of Gen. de Gaulle 1945-46; Head of Political Service for German Affairs 1946-49, Deputy Dir. for Central Europe 1949-54; in office of Antoine Pinay, Minister of Foreign Affairs 1955-56; Dir. Gen. for Moroccan and Tunisian Affairs Jan.-March 1956; Ambassador to Ethiopia 1956-60; Dir. for Middle Eastern Affairs and African Affairs; Amb. to Tunisia 1962-70, to Fed. Repub. of Germany 1970-74, to U.K. Nov. 1977-; Minister of Foreign Affairs 1974-76; Officier, Légion d'honneur; G.C.M.G.; Conseiller Diplomatique du Gouvernement 1977. *Address:* French Embassy, 58 Knightsbridge, London, SW1X 7JT; 11 Kensington Palace Gardens, W8 4QP, England (Residence). *Telephone:* 01-235 8080 (Office); 01-229 9411 (Residence).

SAUVÉ, Jeanne (Benoit); Canadian journalist and politician; b. 26 April 1922, Prud'Homme, Sask.; d. of Charles Albert Benoit and Anna Vaillant; m. Maurice Sauvé 1948; one s.; ed. Univs. of Ottawa and Paris; Nat. Pres., Jeunesse Etudiante Catholique, Montreal 1942-47; Founder Del. to int. confs., Fédération des Mouvements de Jeunesse du Québec 1947; Student, London and French Teacher, London Co. Council 1948-50; Asst. to Dir., Youth Section, UNESCO, Paris 1951; Journalist and Broadcaster, CBC, Contrib. to CTV, NBC and CBS 1952-72; Union des Artistes, Montreal, mem. of the Board 1961-, Vice-Pres. 1968-70; Canadian Inst. on Public Affairs, Vice-Pres. 1962-64, Pres. 1964; mem. Canadian Centennial Comm. 1966; Gen. Sec., Fédération des Auteurs et des Artistes du Canada 1966-72; mem. of the Board, Montreal YMCA 1968; Dir., Bushnell Communications Ltd., Ottawa 1969-72; Dir., CKAC Radio Station, Montreal 1969-72; Free-lance editorial contribs. to Montreal Star and Toronto Star 1970-72; M.P. for Montreal-Ahuntsic 1972-; Minister of State in charge of Science and Technology 1972-74, for Environment 1974-75, of Communications 1975-79; lecture tours in Canada and U.S.A.; named one of seven founding mems. of the Inst. of Political Research by the Rt. Hon. Pierre Trudeau 1972; D.Sc.h.c. (New Brunswick Univ.) 1974. *Address:* 281 Avenue McDougall, Montreal H2V 3P3, Quebec, Canada.

SAUVY, Alfred; French economist, sociologist and demographer; b. 31 Oct. 1898, Villeneuve de la Raho; s. of Louis Sauvy and Jeanne Tisseyre; m. Marthe Lamberet 1932; one d.; ed. Ecole Polytechnique; Dir. Institut de Conjoncture 1937-45; Sec.-Gen. for Family and Population 1945; Dir. Institut National d'Etudes Démographiques 1945-62; mem. UN Statistical Comm. 1946-47; Pres. UN Population Comm. 1950-53; Pres. Société de Statistique de Paris 1947; Prof. of Econs. and Opinion, Inst. of Political Studies 1942-58; mem. Int. Statistical Inst.; Pres. Int. Population Union 1961-63; Dr. h.c. Geneva, Brussels, Liège, Utrecht, Palermo and Montreal Univs.; Prof. Social Demography (Life of Populations), Collège de France 1959-69; fmr. Dir. Institut de Démographie de l'Université de Paris 1957-69; Prof. of Economy and Population, Univ. Paris 1962-, Univ. of Louvain 1974-76, Ecole Polytechnique 1975-; Commandeur de la Légion d'honneur. *Publications:* Principal works: Essai sur la conjoncture et la prévision économique 1938, Richesse et population 1944, Le pouvoir et l'opinion 1949, Théorie générale de la population 1952-66, L'opinion publique 1956, La bureaucratie 1956, La nature sociale 1957, La montée des jeunes 1959, Le plan Sauvy 1960, Les limites de la vie humaine 1961, Fertility and Survival 1961, Malthus et les deux Marx 1963, 1966, Mythologie de notre temps 1965, 1971, Histoire économique de la France entre les deux guerres Vol. 1 (1918-1931) 1965, Vol. II De Pierre Laval à Paul Reynaud 1967, Vol. III 1971, Vol. IV 1975, Les quatres roues de la fortune 1968, Socialisme en liberté 1970, General Theory of Population 1970, La révolte des jeunes 1970, De Paul Reynaud à Charles de Gaulle 1972, Croissance zéro? 1973, 2nd edn. 1975, Vers l'enseignement pour tous 1974, La fin des riches 1975, L'économie du diable 1976, Eléments de démographie 1977, Coût et valeur de la vie humaine 1977. *Leisure interests:* theatre, humour, ancient books on economy and population. *Address:* 76 rue Lepic, 75018 Paris, France.

SAVALAS, Telly (Aristotle), B.A.; American actor; b. 21 Jan. 1923, Long Island, N.Y.; s. of the late Nicholas Constantine and of Christina (née Kapsallis) Savalas; m. 2nd Marilynn Gardner 1955 (divorced 1974), three d.; m. 3rd Sarah Adams 1974, one s.; ed. Columbia Univ.; worked with Voice of America radio broadcasts; joined U.S. State Dept., became Exec. Dir. of Information Services; worked on television network documentaries; began film acting career 1960; began appearances in television series Kojak in U.S.A. 1973, in U.K. 1974. *Films include:* Birdman of Alcatraz 1962, Genghis Khan 1965, The Battle of the Bulge 1965, The Greatest Story Ever Told 1965, Beau Geste 1966, The Dirty Dozen 1967, The Scalphunters 1968, Buona Sera Mrs. Campbell 1968, The Assassination Bureau 1968, On Her Majesty's Secret Service 1969, Crooks and Coronets 1969, Mackenna's Gold 1969, Kelly's Heroes 1970, A Town Called Bastard 1970, Pancho Villa 1971, Horror Express 1972, Inside Out 1975, Diamond Mercenaries 1975, Capricorn One 1977. *Address:* c/o International Creative Managements, 22 Grafton Street, London W.1, England; and Alexander Tucker, 9200 Sunset Boulevard, Los Angeles, Calif. 90069, U.S.A. *Telephone:* 01-629 8080 (London Agent).

SAVANG VATTHANA, H.M. Boroma-setha Khatya Sourya Vongsa Phra Maha Sri, L. EN D.; fmr. King of Laos; b. 13 Nov. 1907; ed. Paris Univ.; took active part in politics during the lifetime of his father; Chief Del. Arbitration Comm. Washington 1947, Japanese Peace Treaty Conf. San Francisco 1951; appointed Regent Aug. 1959; succeeded his father King Sisavang Vong Oct. 1959, abdicated Nov. 1975 (monarchy abolished Dec. 1975); Supreme Advisor to Pres. of Laos 1975-77; arrested and sent for re-education 1977.

SAVIĆ, Pavle; Yugoslav physical chemist; b. 10 Jan. 1909, Salonika, Greece; ed. Univ. Belgrade; Asst. Prof., Univ. of Belgrade 1932-34; worked with Mme. Joliot-Curie at Inst. for Radium, Paris, 1935-39; discovered together fission of uranium nucleus and thence basis for practical use of nuclear energy; lecturer, Univ. of Belgrade 1940-41; active in People's Liberation War 1941-45; Prof. of Chemistry, Univ. of Belgrade 1945-66; Inst. for Physical Problems, Acad. of Sciences of U.S.S.R. 1945-46; Head, Physical Chem. Inst., Univ. of Belgrade, 1947-66; founder of Boris Kidrič Inst. for Nuclear Sciences, Vincă, Pres. the Scientific Council 1948-58; Vice-Pres. Fed. Comm. for Nuclear Energy 1955-60; Pres. Serbian Acad. of Sciences and Arts 1971-; mem. Yugoslav Acad. of Sciences, Nat. Acad. of Sciences, New York; foreign mem. Acad. of Sciences of U.S.S.R.; hon. mem. Hungarian Acad. of Sciences; corresp. mem. Slovenian Acad. of Sciences and Arts; mem. Macedonian Acad. of Sciences and Arts, Acad. of Sciences and Arts of Bosnia and Herzegovina, Athens Acad. of Sciences; numerous Yugoslav and foreign awards and decorations, including Order of Labour, First Class 1954 and Officier de la Légion d'honneur 1965 and 1976. *Publications:* The Behaviour of Materials under High Pressures, Vols. I-IV (with R. Kašanin) 1962-64, Od atoma do nebeskih tela 1970, Nauka i društvo 1978; also many papers on nuclear physics. *Address:* Bulevar Revolucije 257/III, Entrance 5, Flat 32, Belgrade, Yugoslavia.

SAVIMBI, Dr. Jonas; Angolan nationalist leader; b. 1934; ed. Univ. of Lausanne; fmr. Sec.-Gen. União das Populações de Angola (U.P.A.); Foreign Minister of Governo Revolucionário de Angola no Exílio (G.R.A.E.) 1962-July 1964; resigned from G.R.A.E. at OAU meeting, Cairo July 1964; studied at Univ. of Lausanne 1964-65; moved to Lusaka; founded União Nacional para a Independência Total de Angola (U.N.I.T.A.) near Luso, March 1966; Pres. U.N.I.T.A. March 1966-; Leader U.N.I.T.A. forces in guerrilla war against the Portuguese and in Angolan civil war against M.P.L.A. forces after Portuguese withdrawal in Nov. 1975; proclaimed Pres. of People's Dem. Repub. of Angola Nov. 1975 (rival M.P.L.A. regime is recognized internationally); engaged in sporadic fighting against M.P.L.A. 1976-.

SAW, U Ba; Burmese politician; b. 17 Nov. 1914, Ramree; s. of U Lu Pyu and Daw Nwe Ma Pyu; m. Daw Pyu Pyu 1935; two s. two d.; ed. Govt. High School, Kyaukpyu, and Ananda Coll., Colombo, Ceylon; joint Editor Burma Propaganda Office, British Ministry of Information (Far-Eastern Bureau), New Delhi 1943; guerrilla warfare training in India and Ceylon 1944; parachuted to Kyaukpyu District as leader of Resistance campaign in Southern Arakan 1944; formed Kyaukpyu District Anti-Fascist People's Freedom League and People's Volunteer Org. (Pres. and mem. Exec. both orgs.); mem. Constituent Assembly for Kyaukpyu North 1948-50; Special District Commr. Kyaukpyu District 1950-51; elected to Union Parl. for Kyaukpyu (South) 1951-62; Minister for Minorities and Refugee Welfare 1952-53, for Relief Resettlement and Social Welfare 1953-56, for Religious Affairs and Social Welfare 1956-58, for Social Welfare and Religious Affairs, Union Culture Health, Immigration and Nat. Registration 1960-62; Amb. to Thailand and the Philippines 1962-64, to U.S.S.R., Romania, Poland, Czechoslovakia and Hungary 1964-68, to United Kingdom, Sweden, Norway and Denmark 1968-71, to Fed. Repub. of Germany 1971-76, concurrently accred. to Finland 1972-76, and to EEC 1973-76. *Leisure interests:* gardening, painting, reading. *Address:* c/o Ministry of Foreign Affairs, Rangoon, Burma.

SAWALLISCH, Wolfgang; German conductor; b. 26 Aug 1923, Munich; ed. Wittelsbacher Gymnasium, Munich; studied under Profs. Ruoff, Haas and Sachsse; mil. service 1942-46, prisoner of war in Italy; conductor Augsburg 1947-53; Musical Dir. Aachen 1953-58, Wiesbaden 1958-60, Cologne Opera 1960-63; Conductor Hamburg Philharmonic Orchestra 1960-73, Hon. mem. 1973-; Principal Conductor Vienna Symphony Orchestra 1960-70; Prof. Staatliche Hochschule für Musik, Cologne 1960-63; Musical Dir. Bayerische Staatsoper Munich 1971-; Perm. conductor Teatro alla Scala, Milan; conducted at many Festivals; recordings in U.S.A. and Britain; Hon. Conductor NHK Symphony Orchestra, Tokyo 1967; Artistic Dir. Suisse Romande Orchestra, Geneva; Accademico Onorario Santa Cecilia; Österreichisches Ehrenkreuz für Kunst und Wissenschaft, Bayerischer Verdienstorden. *Address:* 8211 Grassau, Hinterm Bichl 2, Federal Republic of Germany. *Telephone:* 08641-2315 (Home).

SAWAMURA, Kaichi; Japanese business executive; b. 1 Jan. 1916; ed. Chiba Univ.; joined Toppan Printing Co., Ltd. 1936, Dir. 1959, Man. Dir. 1960, Exec. Man. Dir. 1965, Pres. 1967-; Dir. Japan Fed. of Employers Assen.; Chair. Toppan Printing Co. (Hong Kong) Ltd.; Pres. Toppan Printing Co. (Singapore) Pte., Ltd., Toppan Printing Co. (America) Inc.; Auditor, Nippon Cultural Broadcasting Inc.; mem. Tokyo Chamber of Commerce; Chair. Japan Printers' Assen. *Address:* Toppan Printing Co. Ltd., 1-5-1 Taito, Taitoku, Tokyo, Japan.

SAWAMURA, Takayoshi, B.COM.SC.; Japanese business executive; b. 6 Feb. 1913; ed. Kobe Univ.; joined Nippon Express Co. Ltd., Dir. 1964, Man. Dir. 1966, Senior Man. Dir. 1966, Pres. 1968-; Ministry of Transport Award 1972. *Address:* 3-12-9, Soto-Kanda, Chiyoda-ku; 5-15-5, Shimoigusa, Suginami-ku, Tokyo, Japan (Home).

SAWAYA, Paulo; Brazilian scientist; b. 9 Nov. 1903, Carmo do Rio Claro, Minas Gerais; s. of Jorge Paulo and Malaque Sawaya; m. Sonia Barros Sawaya 1935; five s. five d.; ed. Faculty of Medicine, Univ. São Paulo; Asst. Prof. of Zoology, Univ. de São Paulo 1937, Assoc. Prof. 1938, Prof. of Gen. and Animal Physiology 1939-, Head of Dept., Dean Faculty Sciences, Philosophy and Letters 1939-70; Dean, Institute of Bio-sciences 1971-74; Consultant, Nat. Research Council Rio de Janeiro 1956 and Univ. de Brasília; Pres. Technical Council of Education, São Paulo; Dir. Marine Biological Inst., Univ. de São Paulo; main fields of research: colour changes in animal neurosecretion, muscular physiology of invertebrates. *Address:* Rua André Fernandes 205, Apt. 111A, P.O. Box 11.230, 01000 São Paulo, SP, Brazil. *Telephone:* 852-30-15 and 211-5028.

SAWDY, Peter Bryan; British company executive; b. 17 Sept. 1931, London; s. of Alfred Eustace Leon and Beatrice (Lang) Sawdy; m. Anne Stonor 1955; two d.; ed. Ampleforth Coll., London School of Econs. (External); national service, commissioned Queen's Regt., also served Parachute Regt. Egypt and Iraq 1951-53; Exec. Trainee, Brooke Bond & Co. Ltd. 1953; Buying Exec., Brooke Bond Ceylon Ltd. 1956, Chair. 1964; Dir. Brooke Bond & Co. Ltd. 1968; Dir. Brooke Bond Liebig Ltd. 1968, Man. Dir. 1975-77; Chief Exec. Brooke Bond Liebig Group July 1977-. *Leisure interests:* squash, golf, 20th-century literature. *Address:* Leaveston, West Street, Mayfield, Sussex; and 18 Elm Park Road, London, S.W.3, England. *Telephone:* Mayfield 2116.

SAXBE, William B., LL.D.; American lawyer and politician; b. 25 June 1916, Mechanicsburg, Ohio; m. Ardath (Dolly) Kleinhans 1940; two s. one d.; ed. Mechanicsburg High Schools and Ohio State Univ.; mem. Ohio House of Reps. 1947-54 (Majority Leader 1951-52, Speaker of the House 1953-54); Chair. Ohio Program Comm. 1953; Ohio Attorney-Gen. 1957-58, 1963-68; Chair. Ohio Crime Comm. 1969-70, Ohio Alliance for Energy, Growth and Jobs; Senator 1969-73; Attorney-Gen. 1973-74; Amb. to India 1975-76; Partner law firm Chester, Saxbe, Hoffman and Willcox; Dir. First Ohio Bank Group, Columbus, Mohawk Rubber Co., Hudson, Big Drum Inc., Columbus, Ohio Acceleration Corpn.; mem. Cttee. on Armed Services, Govt. Operations, Post Office, Civil Service and Special Cttee. on Ageing; Republican. *Address:* c/o Department of State, Washington, D.C. 20520, U.S.A.

SAXENA, Surrendra Kumar, M.A., M.SOC.SC., PH.D.; Indian international co-operative official; b. 3 April 1926; m. Ingalill Gunnel Amanda Friberg; one s. two d.; ed. Univ. of Agra, Inst. of Social Studies, The Hague, Municipal Univ., Amsterdam; Asst. Prof, Dept. of Econs., Birla Coll. 1949-52; Research Fellow, Inst. of Social Studies, The Hague 1955-56; with ICA Regional Office and Educ. Centre for S.E. Asia 1959-61, Regional Officer 1961-68; Dir. Int. Co-operative Alliance (ICA) 1968-; Vice-Pres. Union of Int. Asscns., Brussels; Chair. India Devt. Group, London; Dr. h.c. Univ. of Sherbrooke, Canada; Severin Jorgensen Prize (Copenhagen) 1978. *Publications:* Nationalisation and Industrial Conflict: Example of British Coal Mining 1955, Agricultural Co-operation in S.E. Asia 1961, Role of Foreign Aid in Development of Co-operative Processing 1965, Activities and Role of the International Co-operative Alliance in S.E. Asia 1966, The International Co-operative Alliance and Co-operative Trade 1967. *Leisure interests:* golf, Indian music. *Address:* International Co-operative Alliance, 11 Upper Grosvenor Street, London, W1X 9PA; 6 Hoe Meadow, Seelys Estate, Beaconsfield, Bucks., HP9 1TD, England (Home). *Telephone:* 01-499 5991. (Office).

SAY, Rt. Rev. Richard David, D.D.; British ecclesiastic; b. 4 Oct. 1914, London; s. of Commdr. Richard Say, O.B.E., R.N.V.R., and Kathleen Mary Wildy; m. Irene Frances Rayner, J.P., 1943; two s. (one deceased) two d.; ed. Univ. Coll. School, Christ's Coll., Cambridge and Ridley Hall, Cambridge; Curate of St. Martin-in-the-Fields 1943-50, Gen. Sec., Church of England Youth Council 1944-47; Gen. Sec., British Council of Churches 1947-55; Rector of Hatfield and Domestic Chaplain to Marquess of Salisbury, K.G. 1955-61; Hon. Canon of St. Albans 1957-61; Bishop of Rochester 1961-; Church of England del. to World Council of Churches 1948, 1954, and 1961; Sub-Prelate of the Order of St. John of Jerusalem; Chaplain to the Pilgrims of Great Britain 1968-; mem. House of Lords 1969-; High Almoner to H.M. the Queen 1970-; Deputy Pro-Chancellor, Univ. of Kent 1977-. *Leisure interests:* history and travel. *Address:* Bishopscourt, Rochester, Kent, ME1 1TS, England. *Telephone:* Medway 42721.

SAYEM, Abusadat Mohammed, B.A., B.L.; Bangladesh lawyer and politician; b. 1 March 1916; ed. Rangpur Zilla School, Presidency Coll., Calcutta, Carmichael Coll., Rangpur, Univ. Law Coll., Calcutta; Advocate, Calcutta High Court 1944; joined Dacca High Court Bar 1947; Examiner in Law, Dacca Univ.; mem. Local Board, State Bank of Pakistan until 1956; Sponsor, Gen. Sec. and Vice-Pres. East Pakistan Lawyers Assen.; fmr. Sec. and Vice-Pres. High Court Bar Assen.; Advocate, Fed. Court of Pakistan 1951-59; Senior Advocate, Supreme Court of Pakistan 1959-62; mem. Bar Council until 1962; Judge High Court, Dacca 1962; mem. of various legal comms. of enquiry; mem. East Pakistan Election Comm. for Nat. and Provincial Assemblies 1970-71; Chief Justice, High Court of Bangladesh Jan.-Dec. 1972, Supreme Court 1972-75; Pres. of Bangladesh 1975-77, Chief Martial Law Admin 1975-76, Minister of Law, of Parl. Affairs, of Foreign Affairs. of Defence, Justice and Agric. 1975-77; resigned. *Address:* 105 Azimpur Road, Dacca 5, Bangladesh.

SAYER, Guy Mowbray, C.B.E., J.P.; British banker (retd.); b. 18 June 1924, London; m. Marie Anne Sophie Mertens 1951; one s. two d.; ed. Hong Kong, Shrewsbury School, England; with The Hongkong and Shanghai Banking Corpn. 1946-77, Accountant, Rangoon Branch 1961, Man. 1963, Man. Osaka Branch 1964, Monkok Branch 1965, Staff Controller, Head Office 1968, Gen. Man. 1969, Dir. 1970, Deputy Chair. 1971, Chair. 1972-77, mem. London Advisory Cttee., Chair. Mercantile Bank Ltd. 1973-77, Hongkong Bank, of Calif. 1972-77; Dir. Mercantile Credits Ltd., Sydney 1971-77, Int. Commerical Bank Ltd., London 1969-77, British Bank of the Middle East 1979-; Hon. LL.D. (Univ. of Hong Kong) 1978; Fellow, Inst. of Bankers, London; Liveryman, Worshipful Company of Innholders, Freeman of the City of London. *Address:* 65 Cadogan Square, London, S.W.1., England.

SCALI, John Alfred, B.S.; American diplomatist; b. 27 April 1918, Canton, Ohio; s. of Paul M. and Lucy (Leone) Scali; m. 1st Helen Lauinger Glock 1945, 2nd Denise Scale 1973; three d.; ed. Boston Univ.; Reporter Boston Herald 1942 and Boston Bureau, United Press (UP) 1942-43; Associated Press, War Corresp. European Theatre of Operations 1944 and later Diplomatic Corresp., Wash. Bureau 1945-61; Diplomatic Corresp. ABC Television and Radio, Wash. 1961-71; Special Consultant for Foreign Affairs to the Pres. 1971-73; Amb., Perm. Rep. to UN 1973-75; mem. A.F.T.R.A.; Journalism Award, Univ. of S. Calif. 1964; special award, Wash. Chapter Nat. Acad. of Arts and Sciences 1964; John Scali Award created by Washington Chapter of A.F.T.R.A. 1964; Man of the Year award in Journalism, Boston Univ. 1965; special award Overseas Press Clubs 1965; Rizzuto Gold Medal Award 1974; Hon. degrees (Malone and York Colls.) 1974. *Address:* Waldorf Astoria Towers, Park Avenue, New York, N.Y. 10022, U.S.A.

SCAMMON, Richard M.; American psephologist; b. 17 July 1915, Minneapolis, Minn.; s. of Dr. Richard E. and Mrs. Julia (Simms) Scammon; m. Mary Stark Allen 1952; one d.; ed. Univ. of Minnesota, London School of Economics, Univ. of London and Univ. of Michigan; Research Sec., Radio Office, Univ. of Chicago 1939-41; Army Service 1941-46; Chief, Political Activities Branch, Civil Admin. Div., Office of Military Govt. United States (Germany)

1946-48; Chief, Div. of Research for Western Europe, Dept. of State 1948-55; Dir. Elections Research Center, Governmental Affairs Inst., Washington 1955-61, 1965-; Dir. of the Census 1961-65; Chair. U.S. Del. to Observe Elections in U.S.S.R. 1958, Chair. President's Comm. on Registration and Voting Participation 1963, OAS Electoral Mission to the Dominican Repub. 1966; Pres. Nat. Council on Public Polls 1969-70; Chair. Select Comm. on Western Hemisphere Immigration 1966-68; mem. U.S. Del. to UN Gen. Assembly 1973. *Publications:* Editor, America Votes Vol. 1 1956, Vol. 2 1958, Vol. 3 1960, Vol. 4 1962, Vol. 5 1964, Vol. 6 1966, Vol. 7 1968, Vol. 8 1970, Vol. 9 1972, Vol. 10 1973, Vol. 11 1975, Vol. 12 1977, Vol. 13 1979, Editor America at the Polls 1965, Co-Author This U.S.A. 1965, The Real Majority 1970. *Address:* 5508 Greystone Street, Chevy Chase, Maryland 20015, U.S.A. *Telephone:* 202-387-6066.

SCANLON, Baron (Life Peer) cr. 1979 of Davyhulme in the County of Greater Manchester; **Hugh Parr Scanlon;** British trade unionist; b. 26 Oct. 1913, Australia; m. Nora Markey 1943; two d.; ed. Stretford Elementary School, Nat. Council of Labour Colls.; Apprentice; Instrument Maker; Shop Steward, Convener Associated Electrical Industries, Trafford Park; Div. Organizer Amalgamated Engineering Union, Manchester 1947-63, mem. Exec. Council AEU London 1963-67; Pres. Amalgamated Union of Engineering Workers (AUEW) 1967-78; Vice-Pres., mem. Exec. Cttee. IMF; mem. Nat. Econ. Devt. Council (NEDC) 1971-; mem. Metrication Board 1973-; Pres. European Metal-workers' Fed. 1974-; Chair. Eng. Industry Training Board 1975-; mem. Trades Union Congress (TUC) Gen. Council, TUC Econ. Cttee. Nat. Enterprise Board, Gas Board. *Leisure interests:* golf, swimming, gardening. *Address:* 30 Crown Woods Way, Eltham, London, S.E.9, England.

SCARASCIA-MUGNOZZA, Carlo, DR.JUR.; Italian lawyer; b. 19 Jan. 1920, Rome; mem. Chamber of Deputies 1953; Vice-Pres. Christian Democrat Parliamentary Group 1958-62; Leader, Italian del. to UNESCO 1962; Sec. of State for Educ. 1962-63, for Justice June-Dec. 1963; mem. European Parl. 1961, Chair. Political Cttee. 1971-72; Vice-Pres. of Comm. of the European Communities, Commr. for Agriculture 1972-73; Commr. for Press and Information, Transport Policy, Environment and Consumer Protection, Relations with the European Parl. 1973-77.

SCARFE, Gerald A.; British cartoonist; b. 1 June 1936, London; has contributed cartoons to Punch 1960-, Private Eye 1961-, Daily Mail 1966-, The Sunday Times 1967-, Time 1967-; exhibited at Grosvenor Gallery (group exhbns.) 1969, 1970, Pavilion d'Humour, Montreal 1969, Expo 1970, Osaka 1970; one-man exhbns. Waddell Gallery, New York 1968, 1970, Vincent Price Gallery, Chicago 1969, Grosvenor Gallery 1969, Nat. Portrait Gallery 1971; animation and film directing BBC 1969-; Zagreb Prize for BBC film Long Drawn Out Trip 1973. *Publications:* Gerald Scarfe's People 1966, Indecent Exposure 1973, Expletive Deleted: The Life and Times of Richard Nixon 1974, The Cherrywood Cannon 1978. *Leisure interests:* drawing, painting, sculpting. *Address:* 10 Cheyne Walk, London, S.W.3, England.

SCARMAN, Rt. Hon. Lord Justice; Leslie George Scarman, Q.C.; British judge; b. 29 July 1911, London; s. of George Charles and Ida Irene Scarman; m. Ruth Clement Wright 1947; one s.; ed. Radley Coll. and Oxford Univ.; Harmsworth Law Scholar, Middle Temple 1936; R.A.F. (Volunteer Reserve) 1940-45; Judge, High Court of Justice, England 1961; Chair. Law Comm. for England and Wales 1965-72; Lord Justice of Appeal 1973-77, Lord of Appeal in Ordinary 1977-. *Publications:* Pattern of Law Reform 1967, English Law—the New Dimension 1974. *Leisure interests:* music, walking, gardening, history. *Address:* House of Lords, London, S.W.1. *Telephone:* 219-3000.

SCELBA, Mario, D.JUR.; Italian politician; b. 5 Sept. 1901, Caltagirone; m. Nerina Palestini 1929; one d.; ed. Rome Univ.; Founder mem. Italian People's Party 1919; practised ■ lawyer after suppression of People's Party 1926-; re-entered politics 1941 and became one of founders of Christian Democrat Party and newspaper Il Popolo; Minister for Posts and Telecommunications 1945-47; Minister of the Interior 1947-53, 1960-62; Prime Minister and Minister of the Interior 1954-55; mem. Chamber of Deputies; Deputy to the European Parliamentary Assembly 1958-, Pres. 1969-71; Pres. Nat. Council of the Christian Democrat Party 1966; mem. Senate; Pres. Senate's Comm. on Foreign Affairs; hon. degrees Univ. of Ottawa, Columbia Univ. (Washington), Fordham Univ. and St. John's Univ. (New York). *Address:* European Parliament, Centre Européen, Kirchberg, Luxembourg; and Via Barberini 47, Rome, Italy. *Telephone:* 48-54-56 (Rome).

SCERRI, Arthur J.; Maltese politician and diplomat; b. 31 Jan. 1921, Senglea; m. Ruby (née Howell); one d.; ed. St Mary's Coll., Cospicua and technical studies; Draughtsman, G.E.C. Elliot Co. Ltd. 1950-71; draughtsman Procon (London) Ltd. Jan.-July 1971; High Commr. for Malta in London July 1971-, concurrently Amb. to U.S.S.R. 1972-, Amb. to Iran 1972-, High Commr. to Cyprus 1972-; Rep. Malta Labour Party in U.K. 1954-71; London corresp. Voice of Malta 1954-71; Sec. Mediterranean and Middle East Cttee. of the Movement for Colonial Freedom; fmr. Chair. Maltese Labour Movement in England, assisted in organizing Malta Freedom Fund. *Leisure interests:* politics, reading, philately (Maltese). *Address:* Malta High Commission, Malta House, 24 Haymarket, London, SW1Y 4DJ, England. *Telephone:* 01-930 9851.

SCHAAF, C(arl) Hart, A.B., PH.D.; American United Nations official; b. 14 Jan. 1912, Ft. Wayne, Ind.; s. of Albert H. and Bertha May Hart Schaaf; m. Barbara J. Crook 1945; two s.; ed. Univ. of Michigan, Montpelier, Stockholm; Assoc. Prof. of Admin. Coll. of William and Mary (Richmond Div.) 1940-42; State Rationing Admin., Virginia 1942-43; Asst. Deputy Dir.-Gen. and Chief, Supply for Europe, UN Relief and Rehabilitation Admin. 1944-47; Assoc. Prof. of Admin., School of Business and Public Admin., Cornell Univ. 1947-49; Exec. Dir., United World Federalists 1949; Deputy Exec. Sec. UN/ECAFE 1949-54; Resident Rep. in Israel for UN/TAB 1954-57, in the Philippines 1957-59; Exec. Agent Cttee. for Co-ordination of Investigations of the Lower Mekong Basin 1959-70; Dir. Career Secr. of UN; Resident Rep. in Sri Lanka and the Maldives 1969-. *Publications:* Fiscal Planning at the State Level 1941, Economic Co-operation in Asia 1950, The United Nations Economic Commission for Asia and the Far East 1953, The Lower Mekong (with Russell Fifield) 1963, Burke's Idea or Partition (play) 1948. *Leisure interests:* golf, piano. *Address:* United Nations, P.O. Box 1505, Colombo, Sri Lanka.

SCHACHMAN, Howard Kapnek, B.S., PH.D.; American educator and biochemist; b. 5 Dec. 1918, Philadelphia, Pa.; s. of Morris H. Schachman and Rose Kapnek Schachman; m. Ethel H. Lazarus 1945; two s.; ed. Mass. Inst. of Technology and Princeton Univ.; Fellow, Nat. Inst. of Health 1946-48; Instructor (Biochem.), Univ. of Calif., Berkeley 1948-50, Asst. Prof. 1950-54, Assoc. Prof. 1955-59, Prof. of Biochem. and Molecular Biology 1959-, Research Biochemist to Virus Lab. 1959-; Chair. Dept. of Molecular Biology and Dir. Virus Lab. 1969-76; mem. Nat. Acad. of Sciences; Calif. Section Award, American Chemical Soc. 1958; E. H. Sargent & Co. Award for Chemical Instrumentation, American Chemical Soc. 1962; John Scott Award, City of Philadelphia 1964; Warren Triennial Prize, Mass. Gen. Hosp 1965; Hon. D.Sc. (Northwestern Univ.) 1974, Scholar-in-residence Fogarty Int. Center, NIH 1977-78. *Publications:* Ultracentrifugation in Biochemistry 1959; articles. *Leisure interest:* sports. *Address:* Molecular Biology and Virus Laboratory, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 642-7046.

SCHACHT ARISTEGUIETA, Efrain; Venezuelan lawyer and politician; b. Caracas; ed. Univ. Central de Venezuela; Lecturer, School of Int. Studies, Univ. Central de Venezuela; Lecturer Free School of Journalism; Lecturer in Int. Public Law, Univ. Central de Venezuela; Co-founder, Pres. Colegio de Internacionalistas de Venezuela; Minister of Foreign Affairs 1974-75; Sec.-Gen. of the Presidency 1975-77. *Publications:* Elements of International Law, The International Concept of Liberty, International Juridical Questions. *Address:* Oficina del Presidente, Palacio Miraflores, Caracas, Venezuela.

SCHAEBERLE, Robert M.; American business executive; b. 1923, New Jersey; m.; three c.; ed. Dartmouth Coll.; served U.S. Navy, World War II (rank of Lieut.-Commdr.); joined Nabisco Inc. 1946, Controller 1960, Vice-Pres. and Asst. to Pres. 1962, Vice-Pres. for Finance 1964, Exec. Vice-Pres. 1964-66, Pres. 1966-73, Chief Operating Officer 1972-73, Chair. of Board and Chief Exec. Officer June 1973-, Dir. and mem. Exec. Cttee.; Dir. Libbey-Owens-Ford Co.; mem. Advisory Board, Chemical Bank New York Trust Co., Emergency Cttee. for American Trade; Dir. of several cos. *Address:* Nabisco Inc., East Hanover, New Jersey 07936, U.S.A.

SCHAEFER, Alfred, LL.D.; Swiss banker; b. 30 Jan. 1905, Aarau; s. of Adolf Schaefer and Martha Brugger; m. Dorrit E. Hunziker 1932; one s. one d.; ed. Univs. of Geneva, Zurich and Rome; with Union Bank of Switzerland 1931, Deputy Man. 1934-37, Man. 1937-41, Gen. Man. 1941-53, Chief Gen. Man. 1953, Chair. Board of Dirs. 1964-76; Chair. and mem. of many other companies. *Publications:* numerous publs. on banking problems. *Leisure interests:* riding, history. *Address:* Seestrasse 14, 8702 Zollikon, Switzerland (Home).

SCHAEFER, Walter Erich, DR.PHIL.; German theatre director and playwright; b. 16 March 1901, Hemmingen/Württemberg; s. of Friedrich Schaefer and Hildegard née Speidel; m. Irmgard Sigel 1926; two s. two d.; ed. Karls-gymnasium, Stuttgart, and Eberhard-

Karls-Universitat, Tübingen; Writer, Lecturer at Stuttgarter Musikhochschule; Dramatic Producer, Stuttgart 1929-33, Mannheim 1934-38; Dir. and Chief Dramatic Producer, Kassel 1939-47, Augsburg 1948-49; Supt. then Gen. Supt. Württembergische Staatstheater, Stuttgart 1949-72; Dir. Wiener Staatsoper 1962-63; Grosses Verdienstkreuz 1959, with Star 1971; Officier de l'Ordre des Arts et des Lettres 1965; Verdienstmedaille des Landes Baden-Württemberg; Stuttgarter Bürgermedaille. *Publications:* novels: Die 12 Stunden Gottes 1926, Die letzte Wandlung 1928; theatre: Günther Rennert—Regisseur in dieser Zeit 1962, Martha Moedl 1967, Wieland Wagner 1970; Die Stuttgarter Staatsoper 1972, Gespräche mit Cranko 1974; Bühne eines Lebens 1975, Kleine Wellen auf dem Fluss des Lebens 1976; plays: Richter Feuerbach 1930, Der 18 Oktober 1932, Schwarzmann und die Magd 1933, Die Reise nach Paris 1936, Theres und die Hoheit 1940, Das Feuer 1941, Die Verschwörung 1949, Aus Abend und Morgen (Hora Mortis) 1952, radio: plays Malmgren 1929, Die fünf Sekunden des Mahatma Gandhi 1949, Der Staatssekretar 1949, Spiel der Gedanken 1950, Konferenz in Cristobal 1952, Die Himmelfahrt des Physikers M.N. 1958, Die Nacht im alten Hotel 1969. *Address:* 7000 Stuttgart-Sonnenberg, Feuerreiterweg 32, Federal Republic of Germany. *Telephone:* 763673.

SCHAEFERS, Wolfgang Friedrich Wilhelm, DR.ING.; German engineer and executive; b. 11 Dec. 1930, Oberhausen; s. of Friedrich Schaefers and Adele (née Verhufen); m. Christel Weingarten 1954; two s.; ed. Rheinisch-Westfälische Technische Hochschule, Aachen; Works Man. with Mannesmann AG 1961-62; mem. Man. Board Verein Deutscher Eisenhüttenleute 1962-64 (also currently); Technical Works Man. Rheinstahl Hüttenwerke AG 1964-69; mem. Man. Board Rheinstahl AG (Thyssen Industrie AG from April 1976) 1969-75, Spokesman 1975-76, Chair. Jan. 1976-; Chair. Supervisory Board Thyssen Nordseewerke GmbH, Thyssen Schalker Verein GmbH, Thyssen Giesserei AG, Österreichische Salen-Kunstoffwerk Gesellschaft mbH; Chair. Advisory Board Thyssen Industrie AG Henschel; Vice Chair. Supervisory Board Henschel Flugzeug-werke AG; mem. Supervisory Board, Messerschmitt-Bölkow-Blohm GmbH, München; mem. Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V., Deutsche-Türkische Gesellschaft für Kulhur, Wirtschaft und Handel e.V. and other socs.; Special mem. South African Inst. of Foundrymen; Cttee. or Board positions with nine firms and asscns. in steel and other sectors. *Publications:* numerous publs. on technical subjects, including steel production. *Leisure interests:* sailing, hunting. *Address:* Thyssen Industrie AG, Am Thyssenhaus 1, D 4300 Essen, Federal Republic of Germany. *Telephone:* 0201 1063000 (Office).

SCHAEFFER, Claude Frédéric Armand (see Schaeffer-Forrer, Claude F. A.).

SCHAEFFER, Pierre; French engineer, writer and composer; b. 14 Aug. 1910; s. of Henri Schaeffer and Lucie Labriet; m. Jacqueline de Lisle 1963; two d.; ed. Ecole Polytechnique and Ecole supérieure d'eléctricité et des télécommunications; Dir. of Research, Office de Radiodiffusion-Télévision Française 1959; ■ leader of movement for development of musique concrète (works include Symphonie pour un homme seul and music for films); mem. Centre Nat. de la Recherche Scientifique; Assoc. Prof., Conservatoire nat. de Musique; Officier Légion d'honneur, Chevalier des Palmes académiques. *Publications:* Amérique, nous t'ignorons (essay) 1946, Les enfants de coeur (novel) 1949, A la recherche d'une musique concrète 1952, Traité des objets musicaux 1966, La musique concrète 1967, Solfège de l'objet sonore 1967, L'observateur observe 1967, 1975, Le gardien de volcan 1969, L'avenir à reculons 1970, Machines à communiquer, Vol. I Genèse des simulacres 1970, Vol. II Pouvoir et communication 1972, Le trièdre fertile 1975, Les antennes de Jéricho 1978, Oeuvres de musique concrète et eléctronique 1977-78. *Leisure interest:* philosophy. *Address:* 13 rue des Petits-Champs, 75001 Paris, France. *Telephone:* 296-55-77.

SCHAEFFER-FORRER, Claude F. A., M.A.; French archaeologist; b. 6 March 1898, Strasbourg (Alsace), Bas Rhin; s. of Heinrich Schaeffer and Irma Wiernsberger; m. Odile Forrer 1923; one s. two d.; ed. Strasbourg and Paris Univs.; Curator Prehistoric, Roman and Early Medieval Museum, Palais Rohan, Strasbourg 1921-32; Curator Coins and Medals Dept. Strasbourg Univ. 1926-32; Curator French Nat. Museums 1933-46; Dir. of Research at Nat. Centre of Scientific Research, Paris 1946-54; Prof. Collège de France 1954-69; Vice-Pres. Comm. des Fouilles, Direction des Relations Culturelles, Ministry of Foreign Affairs; Dir. expedition Ras Shamra, Syria 1929-70 (discovered Canaanite alphabetic cuneiform records); Cyprus 1932, 1934, 1935, 1946, 1947, 1949-70, Malatya, Turkey 1946, 1947, 1948, 1950; mem. Archaeological Cttee. Min. of Educ.; Hon. Fellow St. John's Coll., Oxford; mem. Académie des Inscriptions, Inst. de France; Hon. mem. Nat. Society of Antiquaries France, Royal Acad. Denmark; corresp. mem. Belgian Royal Acad.; corresp. Fellow of British Acad.; Hon. Fellow Royal Anthropological Inst. of Great Britain and Ireland, Royal Asian Soc., etc.; Hon. mem. Deutsche Morgenländische Gesellschaft; served as Capt. Corvette with Free French Naval Forces 1940-45; D.Litt. h.c. (Oxon.), D.C.L. h.c. (Glasgow); Hon. F.S.A.; Gold Medal, Soc. of Antiquaries 1958, Scientific and Philological Soc., Famagusta, Cyprus 1965; Hon. Citizen of Lattaquie (Syria) and Famagusta (Cyprus). *Publications:* Haches néolitiques 1924, Tertres funéraires préhistoriques dans la forêt de Haguenau (2 vols.) 1926, 1930, Missions en Chypre 1936, Ugaritica I 1939, Cuneiform Texts of Ras Shamra-Ugarit 1939, Stratigraphie comparée et Chronologie de l'Asie occidentale 1948, Ugaritica II 1949, Enkomi-Alasia 1952, Ugaritica III 1956, IV 1961, V 1968, VI 1969, VII 1978, Alasia I 1971. *Leisure interests:* travel, mountains, research in forestry. *Address:* Le Castel Blanc, 16 rue Turgot, 78100 St. Germain-en-Laye; La Chaumière, 67 Fréland, Alsace; L'Escale, P.O. Box 16, 83 La Croix-Valmer, France. *Telephone:* 963-4225, (94) 97-62-14, (89) 47-17-50.

SCHAETZEL, John Robert; American writer and business consultant; b. 28 Jan. 1917, Holtville, Calif.; ed. Pomona Coll., California, Univ. of Mexico and Harvard Univ.; Admin. Asst., Bureau of the Budget 1942; Special Asst. to Dir. of Office of Int. Trade Policy, Dept. of State 1945-50; Special Asst. to Asst. Sec. of State for Econ. Affairs 1950-54; Nat. War Coll. 1954-55; Officer in charge of peaceful uses of atomic energy, Office of Special Asst. to Sec. for Disarmament and Atomic Energy 1955-59; mem. Presidential Task Force 1960-61; Special Asst. to Under-Sec. of State for Econ. Affairs 1961, to Under-Sec. of State 1961-62; Deputy Asst. Sec. of State for Atlantic Affairs 1962-66; Amb. to European Communities 1966-72, resigned; Chair. Task Force on Consultation for Trilateral Comm.; Vice-Pres. Atlantic Visitors, Johns Hopkins Bologna Center; mem. Council on Foreign Relations, New York; mem. Board and Consultant Honeywell Inc.; Sr. Fellow, Woodrow Wilson Fellowship Foundation; Rockefeller Public Service Award 1959. *Publications:* The Unhinged Alliance—America and the European Community 1975; numerous articles for many journals. *Address:* 2 Bay Tree Lane, Washington, D.C. 20016, U.S.A. *Telephone:* (301) 229-5316.

SCHAFF, Adam, PH.D.; Polish sociologist and philosopher; b. 1913, Lwów (now Lvov, U.S.S.R.); s. of Maks Schaff and Ernestina Schaff de domo Felix; m. Anna Schaff 1935 (died 1975); one d.; m. 2nd Teresa Schaff 1976; ed. Lwów Univ. and Ecole des Sciences Politiques et Economiques, Paris; scientific work in U.S.S.R. 1940-45; Prof. Łódź Univ. 1945-48; Prof. of Philosophy, Warsaw Univ. 1948-70; Dir. Polish United Workers' Party Inst. of Social Sciences 1950-57; mem. Polish Acad. of Sciences (Chair. Philosophy Cttee. 1951-68, Dir. Inst. of Philosophy and Sociology 1957-68); Visiting Prof., Univ. of Vienna 1969-72, Hon. Prof. of Philosophy 1972-; mem. Bulgarian Acad. of Sciences; mem. Cen. Cttee. Polish United Workers' Party 1959-68; mem. Exec. Cttee. Int. Fed. of Philosophical Asscns.; mem. of Int. Inst. of Philosophy, Paris; Pres. Board of Dirs. of the European Centre for Social Sciences in Vienna; Editor Myśl Współczesna (Contemporary Thought) 1946-51, Myśl Filozoficzna (Philosophical Thought) 1951-56; Dr. h.c. Mich. Univ., Ann Arbor 1967; Dr. h.c. Sorbonne 1975. *Publications:* Pojęcie i słowo (Concept and Word) 1946, W stęp do teorii marksizmu (Introduction to the Theory of Marxism) 1947, Narodziny i rozwój filozofii marksistowskiej (Birth and Development of Marxist Philosophy) 1949, Z zagadnień marksistowskiej teorii prawdy (Some Problems of the Marxist Theory of Truth) 1951, Obiektywny Charakter Praw Historii (The Objective Character of Historical Laws) 1955, W stęp do Semantyki (Introduction to Semantics) 1960, Filozofia Człowieka (A Philosophy of Man) 1962, Język i poznanie (Language and Cognition) 1963, Marksizm ■ jednostka ludzka (Marxism and the Human Individual) 1965, Szkice ■ filozofii języky (Essays in the philosophy of Language) 1967, Historia i Prawda (History and Truth) 1970, Gramatyka generatywna ■ koncepcja wrodzonych idei (Generative Grammar and Conception of Innate Ideas) 1972, Strukturalizm i Marksizm (Structuralism and Marxism) 1975, Entfremdung als soziales Phänomen (Alienation as ■ Social Phenomenon) 1977. *Address:* Aleja I Armii W.P. 2/4 m. 24, 00-582 Warsaw, Poland. *Telephone:* 28-18-32.

SCHÄFFER, Bogusław; Polish composer; b. 6 June 1929, Lwów (now Lvov, U.S.S.R); ed. State Higher School of Music, Jagiellonian Univ., Cracow; wrote first dodecaphonic music for orchestra, Music for Strings: Nocturne 1953; Assoc. Prof. State Higher School of Music, Cracow 1963-; Chief Editor Forum Musicum 1967-; G. Fitelberg Prize 1959, 1960, 1964; A. Malawski Prize 1962; Minister of Culture and Arts Prize 1971, Union of Polish Composers Prize 1977. *Publications:* Nowa Muzyka. Problemy współczesnej techniki

kompozytorskiej (New music. Problems of contemporary technique in composing) 1958, Klasycy dodekafonii (Classics of dodecaphonic music) 1964, Leksykon kompozytorów XX wieku (Lexicon of 20th century composers) 1965, W kręgu nowej muzyki (In the sphere of new music) 1967, Maly informator muzyki XX wieku 1975; Chief works Extrema, Tertium datur, A little symphony, Scultura, S'alto for alto, Collage and form, Electronic music, Visual music, Herakhtiana, also film and theatre music. *Address:* Osiedle Kolorowe 4, 31-938 Cracow, Poland. *Telephone:* 419-60.

SCHAFFNER, Franklin James: American film director and producer; b. 30 May 1920, Tokyo, Japan; s. of Paul Franklin and Sarah (née Swords) Schaffner; m. Helen Jean Gilchrist 1948; two d.; ed. Franklin and Marshall Coll.; served in U.S.N.R. 1942-46, final rank Lieutenant; directed numerous television programmes including Studio One 1948-51, Person to Person 1956-58, Playhouse 90 1958-60; *films include:* The Stripper 1963, The Best Man 1964, The War Lord 1965, The Double Man 1967, Planet of the Apes 1968, Patton 1969, Nicholas and Alexandra 1971, Papillon 1973, Islands in the Stream 1977, The Boys from Brazil 1978; also directed Advise and Consent, Broadway 1961; numerous awards, including Variety Critics Poll Award for Advise and Consent, Dirs. Guild of America Award, and Oscar for Patton, 1971; mem. Dirs. Guild of America, Nat. Acad. TV Arts and Sciences. *Address:* c/o Executive Business Management, 132 S Rodeo Street, Beverly Hills, Calif. 90212, U.S.A.

SCHAFFNER, Hans; Swiss lawyer and fmr. politician; b. 16 Dec. 1908; ed. Universität Bern.; Advocate 1934; Sec. High Court of Berne 1938-41; Lawyer to Directorate of Fed. Industry, Trade and Labour Office 1938-41; Head of Fed. Cen. Comm. for War Econ. 1941-45; Del. of Fed. Govt. for Trade Agreements 1946-61; Dir. Div. of Commerce, Fed. Dept. of Public Economy 1954-61; mem. Steering Board for Trade of OEEC 1953-61; mem. Fed. Council, Head of Fed. Dept. of Public Economy 1961-69; Vice-Pres. Fed. Council Jan.-Dec. 1965, Pres. of Swiss Confed. Jan.-Dec. 1966; Vice-Chair. Sandoz Basel; Pres. Ministerial Council of Org. for Econ. Cooperation and Devt. (OECD) 1965; mem. UN Group on Multinationals 1973; Dr. h.c. (Berne) 1959. *Address:* Junkerngasse 59, Berne, Switzerland.

SCHAIRER, George Swift, M.S.; American aircraft and missile design engineer; b. 19 May 1913, Wilkinsburg, Pa.; s. of Otto Sorg Schairer and Elizabeth Blanch Swift Schairer; m. Mary Pauline Tarbox 1935; two s. two d.; ed. Oakmont Public School, Oakmont, Pa., Summit New Jersey High School, Swarthmore Coll., Mass. Inst. of Technology, and Advanced Management Program, Hawaii Univ.; Automotive Engineer, Bendix Aviation Corpn., South Bend, Ind. 1935-37; Engineer, Consolidated Vultee Aircraft Corpn., San Diego 1937-39; Chief Aerodynamist, Boeing Co. 1939-46, Staff Engineer (Aerodynamics and Power Plant) 1946-51, Chief of Technical Staff 1951-56, Asst. Chief Engineer 1956-57, Dir. of Research 1957-59, Vice-Pres. (Research and Devt.) 1959-71, Vice-Pres. Research 1971-78 (retired); consultant The Boeing Co. 1978-; mem. Nat. Acad. of Sciences 1968-; Hon. Fellow, American Inst. of Aeronautics and Astronautics; mem. Nat. Acad. of Engineering, Aeronautics and Space Eng. Board of Nat. Research Council, Int. Acad. of Astronautics; official of numerous other orgs.; Sylvanus Albert Reed Award, Inst. of Aeronautical Sciences 1949; Daniel Guggenheim Medal 1967; Hon. D.Eng. (Swarthmore Coll.) 1958. *Publications:* Numerous papers on aeronautics and related subjects. *Leisure interests:* sailing, model airplane building, photography, fine arts. *Address:* The Boeing Company, P.O. Box 3707, Seattle, Wash. 98124 (Office); 4242 Hunts Point Road, Bellevue, Wash., U.S.A. (Home).

SCHALLY, Andrew Victor, PH.D.; American medical researcher; b. 30 Nov. 1926, Wilno, Poland (now Vilnius, U.S.S.R.); s. of Casimir Peter and Maria (Lacka) Schally; m. 1st Margaret Rachel White, one s. one d.; m. 2nd Sra. Ana Maria de Medeiros-Comaru 1976; ed. Bridge of Allen, Scotland, London Univ., McGill Univ., Montreal, Canada; Asst. Prof. of Physiology and Asst. Prof. of Biochem., Baylor Univ. Coll. of Medicine, Houston, Tex. 1960-62; Chief, Endocrine and Polypeptide Laboratories, Veterans Admin. Hosp., New Orleans, La. 1962-; Senior Medical Investigator, Veterans Admin. 1973-; Assoc. Prof. of Medicine, Tulane Univ. School of Medicine, New Orleans, La. 1962-67, Prof. of Medicine 1967-; Charles Mickle Award 1974, Gairdner Foundation Award 1974, Edward T. Tyler Award 1975, Borden Award in the Medical Sciences (Assn. of American Medical Colls.) 1975, Lasker Award 1975, shared half of Nobel Prize for Physiology or Medicine with Roger Guillemin (*q.v.*) for discoveries concerning peptide hormones 1977. *Publications:* Numerous scientific papers, particularly concerning hormones. *Leisure interest:* swimming. *Address:* Veterans Administration Hospital, 1601 Perdido Street, New Orleans, La. 70146, U.S.A. *Telephone:* (504) 568-0811, Ext. 208; (504) 889-0566 (Home).

SCHAPER, Gen. Heye; Netherlands air force officer (retd.); b. 8 Sept. 1906, Joure; s. of John Schaper and Wietske van der Zee; m. T. Feenstra 1942; three s.; Sub-Lieut. Netherlands Naval Reserve 1930; served with submarine and later naval aviation Holland and Dutch East Indies 1938; Flying Instructor and Test Pilot, Holland 1940; evacuated to England and served as pilot in R.A.F. 1940-42; prisoner of war 1942-45; Commanding Officer, Netherlands Naval Air Service, Dutch East Indies 1945-46; Head of naval aviation, Ministry of Navy, Holland 1946-49; Rear-Adm. and Flag Officer Air, Royal Netherlands Navy 1949; transferred to Royal Netherlands Air Force as Deputy Chief of Staff, in rank of Major-Gen. 1954; Chief of Staff, Royal Netherlands Air Force Lieut.-Gen. 1956-61; Chair. Joint Chiefs of Staff 1957-59; Chief of the Mil. House of H.M. Queen Juliana 1962; Sec. of State for Air 1966-67; Chief of the Mil. House of H.M. Queen Juliana 1967-76; Willemsorde and D.F.C.; Chancellor, Netherlands Orders of Knighthood 1959-. *Leisure interests:* sailing, game-shooting. *Address:* Javastraat 1950, The Hague, Netherlands. *Telephone:* 070-606816.

SCHARF, Kurt Franz Wilhelm, TH.D., D.D.; German ecclesiastic; b. 12 Oct. 1902, Landsberg/Warthe; s. of Johannes Scharf and Margarethe Rüdel; m. 1st Ingeborg Sommerwerck 1928 (died 1929), 2nd Renate Scharf 1933; one s. four d.; ed. Tübingen, Jena and Halle/Saale Univs.; Pastor Friesack 1928, Sachsenhausen 1933; Präses Brotherhood of Brandenburg Confessional Churches 1935; Chair. Conf. of Brotherhoods of Confessional Churches in Germany 1937; several times arrested and forbidden to preach and publish by Nazi regime; Präses Brandenburg Confessional Synod 1935; Provost Berlin-Brandenburg Province 1945; Chair. Utd. Evangelical Church 1955, Dept. Chair. 1961-; Chair. Evangelical Church in Germany 1961-67; Bishop of Berlin-Brandenburg (Evangelical Church) 1966-76; Vice-Pres. United World Bible Soc. 1966-69; mem. Cen. Cttee. World Council of Churches 1968-75; Publisher Rundbriefe der Bekennenden Kirche 1933-45 (illegal 1935-45); Hon. Th.D. Humboldt Univ. Berlin; Hon. D.D. Eden Seminary Webster Groves (Mass.); Buber-Rosenzweig Medal, Jüdisch-Christlicher Koordinierungsrat, Comenius-Medal. *Leisure interest:* chess. *Address:* Am Hirschsprung 35, Berlin 33, Federal Republic of Germany. *Telephone:* 831-2600.

SCHARRER, Berta Vogel, PH.D.; American professor of anatomy; b. 1 Dec. 1906, Munich, Germany; d. of Karl Vogel and Johanna Greis; m. Dr. Ernst Albert Scharrer 1934 (deceased); ed. Univ. of Munich; Research Assoc., Univ. of Frankfurt Neurological Inst. 1934-37, Univ. of Chicago, U.S. 1937-38, Rockefeller Inst. 1938-40, Western Reserve Univ., Cleveland, Ohio 1940-46; Asst. Prof. (Research) and John Simon Guggenheim Fellow, Univ. of Colorado 1946-54; Prof. Albert Einstein Coll. of Medicine, New York 1955-77, Prof. emeritus of anatomy and neuroscience; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Deutsche Akad. der Naturforscher Leopoldina, Royal Netherlands Acad. of Arts and Sciences; Pres. American Assn of Anatomists 1978-79; Dr. med. h.c. (Univ. of Giessen, Fed. Repub. of Germany) 1976, hon. degrees of Dr. Sc. (Northwestern Univ.) 1977, (Univ. of N.C.) 1978; Kraepelin Gold Medal 1978. *Publications:* Neuroendocrinology (with E. Scharrer) 1963; and other publications in the fields of comparative endocrinology and neurosecretion. *Leisure interests:* music, reading. *Address:* Department of Anatomy, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, N.Y. 10461, U.S.A. *Telephone:* 212-430-2835.

SCHAWLOW, Arthur Leonard, M.A., PH.D., LL.D., D.SC.; American professor of physics; b. 5 May 1921, Mount Vernon, N.Y.; s. of Arthur and Helen (Mason) Schawlow; m. Aurelia Keith Townes 1951; one s. two d.; ed. Univ. of Toronto; Postdoctoral Fellow and Research Assoc., Columbia Univ. 1949-51; Research Physicist, Bell Telephone Laboratories 1951-61; Visiting Assoc. Prof., Columbia Univ. 1960; Prof. of Physics, Stanford Univ. 1961-, Chair. Dept. of Physics 1966-70; Dir. Optical Soc. of America 1966-69, Pres. 1975; mem. Council, American Physical Soc. 1966-70, Chair. Div. of Electron and Atomic Physics 1974, Vice Pres. Elect 1979, Vice Pres. 1980; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Thomas Young Medal and Prize (Inst. of Physics and Physical Soc. U.K.), Ballantine Medal (Franklin Inst.), Liebmann Prize (Inst. of Electrical and Electronic Engineers); Calif. Scientist of the Year 1973; Geoffrey Frew Fellowship (Australian Acad. of Sciences) 1973; Frederic Ives Medal (Optical Soc. of America) 1976; Marconi Int. Fellowship 1977; hon. doctorates from Univs. of Ghent, Toronto, Bradford. *Publications:* Microwave Spectroscopy (with C. H. Townes) 1955, and over 100 scientific

papers. *Leisure interest:* jazz music. *Address:* Department of Physics, Stanford University, Stanford, Calif. 94305; 849 Esplanada Way, Stanford, Calif. 94305, U.S.A. (Home).

SCHEEL, Walter; German politician; b. 8 July 1919, Solingen; m. Dr. Mildred Scheel 1969; two s. two d.; ed. Reform-Gymnasium, Solingen; served German Air Force, World War II; fmr. head of market research org.; fmr. mem. Landtag North Rhine-Westphalia; mem. Bundestag 1953-74, Vice-Pres. 1967-69; Fed. Minister for Econ. Co-operation 1961-66; Chair. of Free Democrats 1968-74; Vice-Chancellor, Minister of Foreign Affairs 1969-74; Pres. Fed. Repub. of Germany 1974-79. *Publications:* Konturen einer neuen Welt 1965, Formeln deutscher Politik 1968, Warum Mitbestimmung und wie 1970, Die Freiburger Thesen der Liberalen (with K.-H. Flach and W. Maihofer) 1972, Bundestagreden 1972, Reden und Interviews 1972. *Leisure interest:* modern art. *Address:* c/o Freie Demokratische Partei, Baunscheidtstrasse, Thomas-Dehler-Haus, D-5300, Bonn 12, Federal Republic of Germany.

SCHEELE, Leonard Andrew, A.B., M.D.; American physician; b. 25 July 1907, Fort Wayne, Ind.; s. of Martin F. Scheele and Minnie C. Vogely; m. Frances K. McCormick 1929; one s. two d.; ed. Michigan and Wayne Univs.; various appointments in United States Public Health service, Surgeon-General 1948-56; Pres. Warner Chilcott Laboratories 1956-60; Senior Vice-Pres. Warner-Lambert Co. 1960-72, Dir. 1957-62, 1963-68; Pres. Warner-Lambert Research Inst. 1965-68; served in Second World War, holding assignments in military govt. and civil affairs in Africa, Italy, and later in N.W. Europe 1943-45 as Consultant in Public Health and Med. admin. *Leisure interests:* photography, gardening, travel. *Address:* 700 New Hampshire Avenue, N.W., Washington, D.C. 20037, U.S.A. *Telephone:* 202-338-2273.

SCHELL, Maximilian; Swiss actor; b. 8 Dec. 1930, Vienna; s. of Hermann Ferdinand Schell and Margarete Noe von Nordberg; ed. Humanistiches Gymansium, Basle, Freies Gymnasium, Zürich, and Univs. of Zürich, Basel and Munich; Corporal, Swiss Army 1948-49; various appearances on stage in Switzerland and Germany 1952-55; German debut in Children, Mothers and the General 1955; American film debut in Young Lions 1957, on Broadway stage in Interlock 1958; Critics Award (Broadway) 1958; New York Critics Award 1961, 1978; Golden Globe Award 1961; Acad Award 1961, 1970; Silver Award San Sebastian 1970; Bundesfilmpreis 1970; Film Critics' Award, Chicago 1973; Golden Globe 1974; Goldene Schale 1974; Silver Shell San Sebastian 1975. *Principal films acted in:* Judgment at Nuremberg 1961, Five Finger Exercise 1961, Reluctant Saint 1962, Condemned of Altona 1962, Topkapi 1964, Return from the Ashes 1965, Beyond the Mountains 1966, The Deadly Affair 1966, Counterpoint 1966, Krakatoa, East of Java 1967, The Castle 1968, First Love 1969, Pope Joan 1971, Paulina 1880 1971, The Pedestrian 1973, The Odessa File 1974, The Man in a Glass Booth, Assassination 1975, Cross of Iron 1977, Julia 1977; Producer, Dir. First Love 1969, Dir. and wrote screenplay End of the Game 1975. *Principal plays acted in:* Hamlet, Prince of Homburg, Manner-house, Don Carlos, Sappho (Durrell), A Patriot for Me, The Twins of Venice, Old Times; Dir. All for the Best, A Patriot for Me, Hamlet, Pygmalion, La Traviata 1975, Tales from the Vienna Woods, Nat. Theatre 1977. *Address:* c/o William Morris Agency, New York, N.Y., U.S.A. (Office); Keplerstrasse 2, 8 Munich 80, Federal Republic of Germany (Home). *Telephone:* 089-478577 (Home).

SCHELLE, Carel Jan van, LL.D.; Netherlands diplomatist; b. 26 Aug. 1913, Wassenaar; m. Elsie R. Headde; ed. Leiden Univ.; joined Ministry of Foreign Affairs 1940; dismissed by occupation authorities 1941; served with the Ministry of Foreign Affairs 1945-46; attached to Netherlands Embassy, Paris 1946-50; mem. Netherlands delegation to Indonesian-Dutch negotiations 1948-50; Head Political Section, Netherlands High Commissioner's Office, Jakarta 1950-54; NATO Defence Coll., Paris 1954-55; Counsellor, Netherlands Embassy, Ottawa 1955-58; Minister Plenipotentiary and Head Financial and Econ. Section, Netherlands Del. to NATO, Paris 1958-61; Head European Div., Ministry of Foreign Affairs 1961-63. Head of Personnel 1963-69; Private Sec. to H.R.H. Princess Beatrix and H.R.H. Prince Claus of the Netherlands 1965-66 and temporarily attached to H.R.H. Princess Beatrix during two world tours; Amb. to Belgium 1969-76; Commdr. Order of the House of Orange; Knight Order of the Netherlands Lion; Officer Order of Orange Nassau; Grand Officer Order of Merit, Luxembourg; Grand Cross of Merit Order of Merit of the Fed. Repub. of Germany; Officer Légion d'honneur. *Address:* c/o Ministry of Foreign Affairs, The Hague, Netherlands.

SCHELLING, Friedrich Wilhelm Eugen Eberhard von; German banker; b. 3 May 1906, Berlin; s. of Ulrich and Lina (von Jagemann) von Schelling, great-grandson of F. W. J. von Schelling, philosopher (1775-1854); m. Hildegard Oelkers 1932; one s. one d.; ed. Kaiserin Augusta Gymnasium, Berlin and Univs. of Heidelberg and Berlin; Judge, Berlin 1931-32; Reichsbank, Berlin 1932-45; Reichsbankdirektor, Hamburg 1946-48; Bank deutscher Länder, Frankfurt (Main) 1948-57; Pres. of Landeszentralbank of Free and Hanseatic City of Hamburg 1957-74; Grosses Bundesverdienstkreuz mit Stern. *Address:* Kaspar-Ohm-Weg 16, 2 Hamburg 64, Federal Republic of Germany. *Telephone:* 5-36-11-90 (Home).

SCHELSKY, Helmut, DR. PHIL.; German sociologist; b. 14 Oct. 1912; ed. Univs. of Königsberg and Leipzig; Privatdozent of Philosophy and Sociology, Univ. of Königsberg; Assoc. Prof., Univ. of Strasbourg 1943-44; German Red Cross and journalism 1944-48; Prof. of Sociology, Akademie für Gemeinwirtschaft, Hamburg 1948-53; Prof. of Sociology, Univ. of Münster. *Publications:* Arbeitslosigkeit und Berufsnot der Jugend (2 vols.) 1953, Wandlungen der deutschen Familie in der Gegenwart, Aufgaben und Grenzen der Betriebssoziologie 1954, Arbeiterjugend gestern und heute 1955, Soziologie der Sexualität 1955, Die sozialen Folgen der Automatisierung 1957, Schule und Erziehung in der industriellen Gesellschaft 1957, Die skeptische Generation 1957, Ortsbestimmung der deutschen Soziologie 1959, Die soziale Idee der deutschen Universität 1960, Anpassung oder Widerstand? 1961, Der Mensch in der wissenschaftlichen Zivilisation 1961, Einsamkeit und Freiheit, Idee und Gestalt der deutschen Universität und ihrer Reformen 1963, Auf der Suche nach Wirklichkeit 1965, Grundzüge einer neuen Universität 1966, Abschied von der Hochschulpolitik 1969, Zur Theorie der Institution 1970, Friede auf Zeit, die Zukunft der Olympischen Spiele 1973, Systemüberwindung, Demokratisierung und Gewaltenteilung, 3rd edn. 1973, Die Arbeit tun die Anderen, Klassenkampf und Priesterherrschaft der Intellektuellen 1975, Der selbstandige und der betreute Mensch 1976. *Address:* Pleistermühlenweg 101, Münster/Westf. 44, Federal Republic of Germany. *Telephone:* (0251) 314241.

SCHENCK, Michael U. R. von, DR. IUR.; Swiss diplomatist; b. 21 April 1931, Basel; s. of Dr. Ernst von Schenck and Selma Oettinger; m. Annagret Nussbaumer 1967; ed. Humanistisches Gymnasium and Univ., Basle, and in Lausanne; Swiss Trade Fair 1950-55; Die Woche 1950-55; Swiss Foreign Ministry 1957-67, Del. to OECD 1958, Del. to UN 1959-61, UN Narcotics Conf. 1961, Swiss Technical Assistance Authority 1961-67; Founder and Dir. Swiss Volunteers for Devt. 1962-67; Sec.-Gen. Int. Sec. for Volunteer Service (ISVS) 1967-71; Harvard Univ. 1972-73; Rep. to IAEA and UNIDO, Swiss Embassy, Vienna 1973-77; Head Econ. Dept., Swiss Embassy, Bonn 1977-. *Publications:* Der Statutenwechsel im internationalen Obligationenrecht 1955, Volunteer Manpower for Development 1967, Conferencia Regional sobre Servicio Voluntario 1968, An International Peace Corps 1968, Youth Today 1968, Youth's Role in Development 1968, International Volunteer Service 1969. *Leisure interests:* skiing, hiking. *Address:* Embassy of Switzerland, Gotenstrasse 156, 5300 Bonn-Bad Godesberg, Federal Republic of Germany.

SCHENDEL, Arthur F. E. Van. PH.D.; Netherlands museum director (redt.); b. 18 May 1910, Ede; s. of Arthur van Schendel; m. J. E. Reesink 1941; two s. two d.; ed. High School, Florence, Italy, and Univ. Paris; Asst. Dept. of Paintings Rijksmuseum, Amsterdam 1935, later Curator and Dir. of Dept., Gen. Dir. Rijksmuseum 1959-75; Pres. Int. Inst. for the Conservation of Historic and Artistic Works 1961-64; Pres. Int. Council of Museums 1965-72; has published articles on Rembrandt in Oud-Holland, etc. *Publications:* Le Dessin e Lombardie jusqu'au 15ème siècle 1938, G. H. Breitner 1939, The Rijksmuseum 1966. *Address:* Vossiusstraat 44, Amsterdam, Netherlands (Home). *Telephone:* 79-22-21.

SCHERAGA, Harold A., PH.D.; American professor of chemistry; b. 18 Oct. 1921, Brooklyn, N.Y.; s. of Samuel and Etta Scheraga; m. Miriam Kurnow 1943; one s. two d.; ed. City Coll. of New York and Duke Univ.; American Chemical Soc. Postdoctoral Fellow Harvard Medical School 1946-47; Instructor of Chem. Cornell Univ. 1947-50, Asst. Prof. 1950-53, Assoc. Prof. 1953-58, Prof. 1958-, Todd Prof. 1965-, Chair. Chem. Dept. 1960-67; Guggenheim Fellow and Fulbright Research Scholar Carlsberg Lab., Copenhagen 1956-57, Weizmann Inst., Rehovoth, Israel 1963; Nat. Inst. of Health Special Fellow Weizman Inst., Rehovoth, Israel 1970; Visiting Lecturer Wool Research Labs. C.S.I.R.O., Australia Dec. 1959; Visiting Prof. Japan Soc. for the Promotion of Science 1977; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Vice-Chair. Cornell Section American Chemical Soc. 1954-55, Chair. 1955-56, Councillor 1959-62; mem. Advisory Panel in Molecular Biology Nat. Science Foundation 1960-62; mem. Editorial Board numerous scientific journals; mem. Biochem. Training Cttee., Nat. Insts. of Health 1963-65; mem. Comm. on Molecular Biophysics Int. Union for Pure and Applied Biophysics 1967-69; mem. Comm. on Macromolecular

Biophysics Int. Union for Pure and Applied Biophysics 1969-75, Pres. 1972-75; mem. Comm. on Subcellular and Macromolecular Biophysics Int. Union for Pure and Applied Biophysics 1975-78; mem. Exec. Comm. Div. of Biological Chem. American Chemical Soc. 1966-69; Vice-Chair. Div. of Biological Chem. American Chemical Soc. 1970, Chair. 1971; mem. Council Biophysical Soc. 1967-70; mem. Research Career Award Cttee. Nat. Inst. of Health 1967-71; mem. Board of Governors Weizmann Inst., Rehovoth, Israel 1970-; Eli Lilly Award in Biochem. 1975; Welch Foundation Lecturer 1962; Harvey Lecturer 1968; Gallagher Lecturer 1968-69, Lemieux Lecturer 1973, Hill Lecturer 1976; Hon. Sc.D. (Duke Univ.) 1961; Townsend Harris Medal C.C.N.Y. 1970; Nichols Medal, N.Y. Section, American Chem. Soc. 1974; City Coll. Chem. Alumni Scientific Achievement Award Medal 1977; American Chem. Soc. Kendall Award in colloid chem. 1978. *Publications:* Protein Structure 1961, Theory of Helix-Coil Transitions in Biopolymers 1970; 450 articles; research on physical chem. of proteins and other macromolecules; structure of water; chemistry of blood clotting. *Leisure interests:* golf, skiing. *Address:* Department of Chemistry, Cornell University, Ithaca, N.Y. 14853; 212 Homestead Terrace, Ithaca, N.Y. 14850, U.S.A. (Home). *Telephone:* 607-256-4034 (Office); 607-272-5155 (Home).

SCHERER, H. E. Cardinal Vicente; Brazilian ecclesiastic; b. 5 Feb. 1903, Bom Princípio, Rio Grande do Sul; s. of Pedro Scherer and Ana Oppermann Scherer; ed. primary school, Seminário Central de São Leopoldo and Pontifical Gregorian Univ., Rome; ordained priest in Rome 1926; Private Sec. to Archbishop of Porto Alegre 1927-33; organizer of Parishes of Tapes and Barra do Ribeiro 1933-35; Parish Priest São Geraldo, Porto Alegre 1935-46; Auxiliary Bishop of Porto Alegre 1946; Archbishop of Porto Alegre 1946-; cr. Cardinal 1969. *Address:* Residência Arquiepiscopal, Rue Espírito Santo 95, Porto Alegre, RS, Brazil.

SCHERGER, Air Chief Marshal Sir Frederick Rudolph Williams, K.B.E., C.B., D.S.O., A.F.C.; Australian air force officer; b. 18 May 1904, Ararat, Victoria; s. of Frederick Hermann Scherger and Sarah Jane Chamberlain; m. 1st Thelma L. Harricks 1929 (deceased); one d.; m. 2nd Mrs. J. Robertson 1975; ed. Royal Mil. Coll., Duntroon; transferred to R.A.A.F. 1924; Flying Instructor 1925-34 and Chief Flying Instructor 1934-39, Point Cook; R.A.A.F. Chief Test Pilot 1939; Dir. of Training 1938-40; A.O.C. New Guinea 1943-44; Task Force Commdr. Allied Air Forces in attacks and landings at Aitape and Noemfoor; A.O.C. First Tactical Air Force, New Guinea 1945; attended Imperial Defence Coll. 1946; Deputy Chief of Air Staff 1947-51; Head, Australian Joint Services Staff, Washington 1951-52; loaned to R.A.F. as A.O.C. Malaya 1952-54; Air mem. for Personnel 1954-57; Chief of Air Staff, R.A.A.F. 1957-60; Chair. Chiefs of Staff Cttee. 1960-66; Chair. Australian Nat. Airlines Comm. 1966-75, Constructors John Brown (Aust.), Mono Pumps (Aust.); Dir. ICL (Aust.), Plessey Pacific, Assoc. Broadcasting Services. *Leisure interests:* golf, shooting. *Address:* 45 Stephens Street, North Balwyn, 3104 Vic., Australia.

SCHERRER-BYLUND, Paul, PH.D.; Swiss librarian; b. 18 Aug. 1900, St. Gallen; s. of Gustav Hermann Scherrer and Sophie Gehrig; m. 1st Tamara Wintsch 1929, 2nd Barbro Bylund 1963; two s. one d.; ed. Univs. of Munich, Berlin and Glasgow; Asst. Librarian Univ. Library of Basel 1928-31, Librarian 1931-47; Chief Librarian, Library of Swiss Fed. Inst. of Technology, Zürich 1947-52, Dir. 1953-62; Dir. Central Library Zürich Univ. 1963-71; fmr. Vice-Pres. Swiss Assen. of Librarians and fmr. Pres. Swiss Soc. of Bibliophiles; fmr. Pres. Gottfried-Keller-Gesellschaft; Hon. mem. Int. Assen. Bibliophily, Swiss Soc. of Bibliophiles, Naturforschende Gesellschaft, Zürich; Award of Kulturförderungskommission, Zurich 1973. *Publications:* include Thomas Murners Verhältnis zum Humanismus, untersucht auf Grund seiner "Reformatio poetarum" 1929, Zwei neue Schriften Thomas Murners 1929, Zum Kampfmotiv bei Thomas Murner 1935, Erasmus im Spiegel von Thomas Murners Reformationspublizistik 1936, Die Toten in der deutschen Lyrik zweier Weltkriege 1944, Sub aeternitatis specie 1953, Vom Werden und von den Aufgaben der Bibliotheken technischer Hochschulen 1955, Die Gründung des Eidg. Polytechnicums und das schweizerische Nationalbewusstsein 1955, Bibliotheken und Bibliothekare als Träger kultureller Aufgaben 1956, Epigonen-Angst 1957, Vornehmheit, Illusion und Wirklichkeit als Grundmotive des "Felix Krull" 1958, Bruchstücke der Buddenbrooks-Urhandschrift 1958, Die Bibliothek des deutschen Patentamtes und die kulturellen Aufgaben technischer Bibliotheken 1959, Aus Thomas Manns Vorarbeiten zu den Buddenbrooks 1959, Thomas Manns Mutter liefert Rezepte für die Buddenbrooks 1959, Thomas Mann und die Wirklichkeit 1960, Ueber den Sinn des Thomas Mann Archivs 1961, Von der Macht und der Sendung des Buchdrucks 1961, Die Zeit im bibliothekarischen Beruf 1965, Die Stellung des Bibliothekars in der modernen Gesellschaft 1967, Schweizerische Gesichtspunkte zum Problem der Universalbibliothek 1967, Tradition und Technik in den Bibliotheken 1968, Gottfried Keller und die Buchillustration 1972. *Address:* Beckhammer 1932, Zürich 8057, Switzerland (Home). *Telephone:* 01-28-27-10.

SCHIEDER, Theodor, DR. PHIL.; German historian; b. 11 April 1908, Oettingen, Bavaria; s. of Heinrich Schieder and Marga (née Autenrieth); m. Eva Rogalsky 1934; three s. one d.; ed. Gymnasium bei St. Anna, Augsburg, and Univs. of Munich and Berlin; Dozent in History Univ. of Königsberg 1940-42, Prof. of History 1942-45; Guest Prof., Univ. of Cologne 1947-48, Prof. of Medieval and Modern History, Univ. of Cologne 1948-76, Emer. Prof. 1976-; Pres. of Historical Comm. of Bavarian Acad. of Sciences, Munich 1964-; mem. Acad. of Sciences and Literature, Mainz, Bavarian Acad. of Sciences, Munich, Rhine-Westphalia Acad. of Sciences, Düsseldorf (Pres. 1978); Kongel Danske Videnskabernes Selskab Copenhagen; Visiting mem. Inst. for Advanced Study 1968; Grosses Verdienstkreuz der Bundesrepublik Deutschland mit Stern; Orden pour le Mérite für Wissenschaften und Künste. *Publications:* Staat und Gesellschaft im Wandel unserer Zeit 58, 1970, Das Deutsche Kaiserreich von 1871 als Nationalstaat 1961, Begegnungen mit der Geschichte 1962, Nietzsche und Bismarck 1963, Der Nationalstaat in Europa als historisches Phänomen 1964, Geschichte als Wissenschaft 1965, 1968, Handbuch der Europäischen Geschichte (Ed.), Vol. VI 1968, Vol. IV 1968, Vol. III 1971, Vol. I 1976, Vol. VII 1979, Zum Problem des Staatenpluralismus in der modernen Welt 1969, Reichsgründung 1870-71, 1790, Hermann Rauschnings "Gespräche mit Hitler" als Geschichtsquelle 1972, Ohne Geschichte sein? 1973, Revolution und Gesellschaft 1973, Staatensystem als Vormacht der Welt 1978, Editor Historische Zeitschrift. *Address:* 5000 Köln 41 (Lindenthal), Gyrhofstrasse 21, Federal Republic of Germany. *Telephone:* 415820.

SCHIFF, Dorothy; American communications consultant; b. 11 March 1903; ed. Bryn Mawr Coll.; Editor-in-Chief and publisher New York Post; owner 1939-77; French Legion of Honour 1947. *Address:* 210 South Street, New York 2, N.Y., U.S.A.

SCHIFF, Emile Louis Constant; Netherlands diplomatist; b. 2 March 1918; ed. Rijksuniversiteit, Leiden; Second Sec., Washington 1945-49; Second, later First Sec., Madrid 1949-52; Private Sec. to Ministers of Foreign Affairs, The Hague 1952-54; Counsellor Perm. Mission to UN 1955-59; Minister, Washington 1959-64; Amb. to Indonesia 1965-68; Sec.-Gen. Ministry of Foreign Affairs 1968-77; Amb. to Australia 1977-; Knight, Order of Netherlands Lion and many foreign awards. *Leisure interest:* golf. *Address:* Netherlands Embassy, Canberra, A.C.T. 2600, Australia. *Telephone:* 733-111.

SCHIFFER, Menahem Max, PH.D.; American professor of mathematics; b. 24 Sept. 1911, Berlin, Germany; s. of Chaim Schiffer and Miriam née Alpern; m. Fanya Rabinovics 1937; one d.; ed. Oberrealschule, Berlin, Berlin Univ. and Hebrew Univ., Jerusalem; Jr. Asst. Hebrew Univ., Jerusalem 1934-38, Sr. Asst. 1938-43, Lecturer 1943-46; Visiting Lecturer Harvard Univ. 1946-49, Princeton Univ. 1949-50; Prof. Hebrew Univ., Jerusalem 1950-51; Prof. of Math. Stanford Univ. 1951-77; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Foreign mem. Finnish Acad. of Sciences 1975; Hon. D.Sc. (Israel Inst. of Technology) 1973. *Publications:* Co-author: Kernel Functions in Mathematical Physics 1953, Functionals of Finite Riemann Surfaces 1954, Introduction to General Relativity 1965; numerous articles in mathematical journals. *Leisure interests:* history, philosophy, rare books, walking, travel. *Address:* 3748 Laguna Avenue, Palo Alto, Calif. 94306, U.S.A. *Telephone:* 415-493-9154.

SCHILLER, Karl, DR. RER. POL.; German economist and politician; b. 24 April 1911, Breslau; ed. Univs. of Kiel, Frankfurt am Main, Berlin and Heidelberg; Univ. Asst., Heidelberg 1934-35; Head of Research Group Inst. for World Econs., Kiel 1935-41; Army Service 1941-45; Visiting Prof. Univ. of Kiel 1945-46; Prof. of Econs., Dir. of Social Econ. Seminars and Inst. for Foreign Trade and Overseas Commerce, Univ. of Foreign Trade and Overseas Commerce, Univ. of Hamburg 1947-72, Rector Univ. of Hamburg 1956-58; mem. Council of Scientific Advisers Fed. Ministry of Econs. 1947-72; mem. Council of Scientific Advisers Fed. Ministry of Econ. Cooperation 1963-66; Senator for Econs., Hamburg 1948-53, Berlin 1961-65; mem. Bundesrat 1949-53, 1961-65; Deputy Chair. Econ. Cttee., Exec. Cttee. of SPD 1962-64, Chair. 1964-72, mem. Exec. Cttee. SPD 1964-72, mem. Presidium 1966-72, mem. Bundestag, Deputy Chair. and Econ. Spokesman of SPD Parl. Group 1965-72; Fed. Minister of Econs. 1966-71, of Econs. and Finance 1971-72 (resgnd.); Pres. Econ. Devt. of Equatorial and Southern Africa (EDESA) 1973-. *Publications:* Aufgaben und Versuche: Zur neuen

Ordnung von Wirtschaft und Gesellschaft 1953, Der Ökonom und die Gesellschaft: Das freiheitliche und soziale Element in der Wirtschaftspolitik 1964, Berliner Wirtschaft und deutsche Politik, Reden und Aufsätze 1961-1964 1964, Reden zur Wirtschafts- und Finanzpolitik 1966, Aufgeklärte Marktwirtschaft-Kollektive Vernunft in Politik und Wirtschaft 1969; numerous economic and political articles. *Address:* 2 Hamburg 55, Kuulsbag 26, Federal Republic of Germany.

SCHILPP, Paul Arthur, M.A., B.D., PH.D.; American (German-born) university professor, philosopher and writer; b. 6 Feb. 1897, Dillenburg, Hessen, Germany; s. of the Rev. Hermann and Emilie (Dittmar) Schilpp; m. E. Madelon Golden 1950; one s. one d.; ed. Bayreuth Gymnasium, Baldwin-Wallace Coll. (Ohio), Northwestern Univ., Garrett Theol. Seminary, Evanston, and Stanford Univ.; Prof. of Psychology and Religious Educ., Coll of Puget Sound 1922-23, Prof. of Philosophy, Coll. of the Pacific 1923-34; Lecturer, Assoc. Prof. and (since 1950) Prof. of Philosophy, Northwestern Univ. 1936-65, Emer. 1965-; Distinguished Visiting Research Prof. of Philosophy Southern Ill. Univ., Carbondale 1965-; Visiting Prof., Ohio State Univ. 1931, Univ. of Munich 1948, Pacific Philosophy Inst. 1954; Founder, Pres. and Editor Library of Living philosophers; Watumull Foundation Research Fellowship for India 1950-51; Pres. American Philosophical Assn. (Western Div.) 1958-59; Memorial Lecturer, Arizona State Univ. 1963; Hon. Litt.D. (Baldwin-Wallace Coll.); Hon. L.H.D. (Springfield Coll., Mass.) 1963, (Kent State Univ., Ohio) 1975. *Publications:* Do We Need a New Religion? 1929, Kant's Pre-Critical Ethics 1938, The Quest for Religious Realism 1938, Lamentations on Christmas 1945, Human Nature and Progress 1954, The Crisis in Science and Education 1963; Editor and Contributor Higher Education Faces the Future 1930, Theology and Modern Life 1940, Library of Living Philosophers (14 vols. so far published) 1939-74, The Student Seeks an Answer 1960, New Frontiers of Christianity 1962, In Albert Schweitzer's Realms 1962, Religion Ponders Science 1964, The World of Philosophy (Pakistan) 1966, The Critique of War 1969, Value and Valuation 1972. *Leisure interests:* chess, travel, music. *Address:* Department of Philosophy, Southern Illinois University, Carbondale, Ill. 62901, U.S.A.; and 9 Hillcrest Drive, Carbondale Ill. *Telephone:* 618-536-6641 (Office) 618-549-6335 (Home).

SCHIÖTTZ-CHRISTENSEN, Alf Krabbe, B.A., B.LITT.; Danish journalist; b. 12 Feb. 1909, Nörresundby; s. of Lauritz Alexander Schiöttz-Christensen and Thora Anna Krabbe; m. 1st Ebba Jorgensen 1944 (died 1964), 2nd Inger Larsen 1967; ed. Univ. of Copenhagen and Columbia Univ.; on staff of Seattle Times 1931; Corresp. to Danish newspapers, League of Nations 1932-33; Editorial Staff, Aalborg Stiftstidende newspaper 1933, Dir., Chief Editor 1940-, Publr. 1950-; Dir. Aalborg Stiftsbogtrykkeri (printing works) 1940-; Pres. Nordjyske Distriktsaviser 1975; Vice-Pres. Danish Newspaper Publishers Assn.; mem. Exec. Cttee. Fed. Int. des Editeurs de Journaux (FIEJ) 1961, Vice-Pres. 1974-; mem. Exec. Cttee. Int. Newspaper and Colour Assn.—FIEJ Inst. 1969, Treas. 1975; several foreign decorations. *Leisure interest:* aviation. *Address:* Aalborg Stifstidende, 7 Nytorv, 9100, Aalborg, Denmark. *Telephone:* 08-12-58-00 (Office); 08-12-57-92 (Home).

SCHIOTZ, Fredrik Axel, TH.M., TH.D., D.D., LL.D., LITT.D., L.H.D., J.C.D.; American ecclesiastic; b. 15 June 1901, Chicago, Ill.; s. of Jacob Schiotz and Stina Akerholt; m. Dagny Aasen 1928; three s. one d.; ed. St. Olaf Coll., Northfield, Minn., and Luther Theological Seminary, St. Paul, Minn.; Pastor Lutheran congregations 1930-38, 1945-48; Exec. Sec. Student Service Comm. on Younger Churches and Orphaned Missions of Nat. Lutheran Council 1948-54; Pres. Evangelical Lutheran Church 1954-60; Chair. Comm. on World Mission of Lutheran World Fed. 1949-57, Vice-Chair. 1957-63; Chair. Board for Lutheran World Fed. Broadcasting Service 1960-64; Pres. American Lutheran Church 1961-70, Pres. Emer. 1971-; Pres. Lutheran World Fed. 1963-70; mem. Nat. Lutheran Council Exec. Cttee. 1955-70; mem. Lutheran Council, U.S.A., Exec. Cttee. 1967-71; mem. World Council of Churches Cen. Cttee. 1961-71; Commdr. with star, Order of St. Olav. *Publications:* Release 1935. *Leisure interests:* reading, walking, sports, fishing. *Address:* The American Lutheran Church, 422 South Firth Street, Minneapolis, Minn. 55415 (Office); 5567 Waldeck Crossing, Minneapolis, Minn. 55432, U.S.A. (Home). *Telephone:* 338-3821 (Office); 574-1212 (Home).

SCHIRMER, Hans Heinrich Theodor, DR.PHIL.; German diplomatist; b. 9 Jan. 1911, Berlin; s. of Lt.-Gen. Hermann Schirmer and Henrietta née Hansen; m. Gabrielle Archard 1951; one s. one d.; ed. Univ. of Heidelberg; Foreign Service, Berlin 1939-43; mil. service and prisoner-of-war 1943-46; Head, Foreign Affairs Div., Press and Information Office of German Fed. Govt. 1950-55; Counsellor Cairo 1955-60; Consul-Gen. Hong Kong 1961-62; Asst. Sec. Press and Information Office 1966-68; Amb. to Australia 1968-70, to Austria 1970-74; Rep. of Fed. Republic of Germany in European-Arab Dialogue; Grosses Bundersverdrenstkreuz. *Leisure interests:* history, ornithology, swimming. *Address:* Auswärtiges Amt, Bonn, Federal Republic of Germany.

SCHJELDERUP, Kristian Vilhelm Koren, B.D., D.D.; Norwegian ecclesiastic; b. 18 Jan. 1894; ed. Univs. of Oslo, Marburg, Berlin and Strasbourg.; Assoc. Prof. of Theology, Univ. of Oslo 1921-27; mem. The Christian Michelsen Inst. for Science and Spiritual Freedom, Bergen 1930-35; Founder and first Pres. the Norwegian Academy of Humanism (Nansen-skolen) 1938-45; ordained Minister of Norwegian Church 1945; Bishop of Hamar 1947-64; mem. Int. Psychoanalytical Pres. Norwegian Polio Assn.; Commdr. Order of St. Olav. *Publications:* Religionens sandhet i lys av den relativitetsteoretiske virkelighetsopfatning 1921, Der mennesker blir guder 1923, Hvem Jesus var og hvad kirken har gjort ham til 1924, Religion og religioner 1926, Die Askese 1928, Über drei Haupttypen der religiösen Erlebnisformen 1932, Toleransens og fordragelighetens problem 1934, På vei mot hedenskapet 1935, Guds hus i fangeleiren 1945, Oppgjor med nazismens ideologi 1945, Tiden kaller pd kirken 1948, Den grunn hvor pd jeg bygger 1957, Ved Dören 1960, Veien jeg måtte på 1962, Lys i mörket 1965, Under åpen himmel 1969, Jeg tror Herre, hjlep min vantro 1973, and numerous articles. *Address:* Peder Claussönsgt. 19, Kristiansand 5, Norway. *Telephone:* 26336.

SCHLAUCH, Margaret, A.B., M.A., PH.D.; Polish (b. American) philologist; b. 25 Sept. 1898, Philadelphia, Pa.; d. of William Storb Schlauch and Margaret Brosnahan Schlauch; ed. Barnard Coll. and Columbia Univ., New York; Asst. Prof., New York Univ. 1927-31, Assoc. Prof. 1931-40, Full Prof. 1940-51; Prof. of English Philology, Warsaw Univ., Poland 1951-68, Chair. of Dept. 1953-68, Prof. Emeritus 1968-; Visiting Prof., Univ. of Connecticut 1966-70; Pres. Soc. for Polish-Icelandic Friendship; Corresp. mem. Polish Acad. of Sciences; Officer's Cross of Order of Polonia Restituta, Knight Order of the Falcon, Iceland. *Publications:* Chaucer's Constance 1927, Medieval Narrative 1928, The Saga of the Volsungs 1930, The Gift of Tongues 1942, English Medieval Literature and its Social Foundations 1956, Modern English and American Poetry 1956, Zarys wersyfikacji angielskiej (Outline of English Versification) 1958, The English Language in Modern Times 1959, Antecedents of the English Novel 1963, Language and the Study of Languages Today 1967, Polish trans. 1967, Stare Sagi Islandzkie (Old Icelandic Sagas) 1975. *Address:* Ul. Brzozowa 10 m. 12, 00-286 Warsaw, Poland. *Telephone:* 31-78-12.

SCHLEBUSCH, Alwyn Louis, B.A., LL.B.; South African politician; b. 16 Sept. 1917, Lady Grey, Cape Prov.; ed. Kroonstad, Univ. of Stellenbosch, Univ. of Pretoria; fmr. Attorney and later Mayor, Henneman 1948-49, 1951-52; Farmer 1953-; mem. Prov. Council, Orange Free State 1958-62; M.P. for Kroonstad 1962-; Deputy Speaker House of Assembly 1974, Speaker 1975; Minister of Public Works 1976-68, of Immigration Jan. 1976-, of the Interior Jan. 1978-79, of Justice June 1979-; fmr. Chair. Prime Minister's Comm. of Enquiry into Certain Orgs. *Address:* Veritas Building, Volkstem Avenue, Private Bag X81 0001, Pretoria, South Africa.

SCHLEI, Marie; German politician; b. 26 Nov. 1919, Reetz, near Stargard, Pomerania; m. twice (first husband killed in World War II); two s. one d.; ed. teacher training in evening classes, Berlin; Post office clerk in eastern Germany; fled to western Germany 1945; moved to Berlin 1947; schoolteacher in Wedding, Berlin, later Headmistress, then School Insp.; mem. SPD 1949-; mem. Bundestag (Parl.) 1969-; mem. Exec. Cttee. of SPD Parl. Group 1972-; Parl. Sec. of State in Fed. Chancellery 1974-76; Fed. Minister for Econ. Co-operation 1976-68. *Publications:* (with Joachim Wagner) Freiheit, Gerechtigkeit, Solidarität—Grundwerte und praktische Politik (Freedom, Justice, Solidarity—Basic Values and Practical policy) 1976, (with Dorothea Brück) Wege zur Selbstbestimmung—Sozialpolitik also Mittel der Emanzipation (Towards Self-determination—Social Policy as a Means of Emancipation) 1976. *Address:* c/o Bundesministerium für wirtschaftliche Zusammenarbeit, 53 Bonn, Friedrich-Ebert-Allee 116, Federal Republic of Germany.

SCHLENKER, Rudolf; German tobacco executive; b. 18 June 1915, Dortmund; m. Liselotte Riesenberg 1944; two s. one d.; ed. business management studies, Cologne; Adviser Provincial Economy Office, Württemberg Baden and in Provincial Parl. after Second World War, later in Econ. Admin. Office, Frankfurt; in Fed. Ministry of Economy, Bonn 1949-51, in Washington, D.C. 1951-53; mem. Man. Board H. F. and Ph. F. Reemtsma 1953-75, Spokesman of Man. Board 1958, Chair. of Man. Board 1962-75; Chair. Cigarette Industry Assn.; Vice-Pres. Hamburg Chamber of Commerce, Pres.

1975-; Vice-Pres. Deutscher Industrie- und Handelstag 1976-; mem. Advisory Board Deutsche Bank A.G., Badische Anilin & Sodafabrik A.G., Hapag-Lloyd A.G., Nord-Deutsche und Hamburg-Bremer Versicherungs-AG; mem. Advisory Council Aachener und Münchener Feuer-Versicherung AG, Gerling-Konzern, Henkel GmbH, Hermes Kreditversicherungs AG. *Address:* Deutscher Industrie- und Handerstag, 53 Bonn, Adenauerallee 148 (Office); Frenssenstr. 54, 2000 Hamburg 55 (Blankenese), Federal Republic of Germany (Home). *Telephone:* 0411-86-29-76 (Home).

SCHLESINGER, Arthur, Jr., A.B.; American writer and educator; b. 15 Oct. 1917, Columbus, Ohio; s. of Arthur Meier and the late Elizabeth Bancroft Schlesinger; m. 1st Marian Cannon 1940, two s. two d. m. 2nd Alexandra Emmet 1971, one s.; ed. Phillips Exeter Acad., Harvard Univ. and Peterhouse, Cambridge, England; Soc. of Fellows Harvard 1939-42; with Office of War Information 1942-43; Office of Strategic Services 1943-45; U.S. Army 1945; Assoc. Prof. of History, Harvard Univ. 1946-54, Prof. 1954-61; Special Asst. to Pres. of U.S.A. 1961-64; Schweitzer Prof. of the Humanities, City Univ. of N.Y. 1966-; Consultant, Econ. Co-operation Admin. 1948, Mutual Security Admin. 1951-52; fmr. mem. Board of Trustees, John F. Kennedy Centre for the Performing Arts; mem. Adlai Stevenson campaign staff 1952 and 1956; mem. American Historical Assn., Nat. Inst. of Arts and Letters, Board of Dirs. John F. Kennedy Library, Harry S. Truman Library Inst., American Civil Liberties Union etc.; Hon. Litt.D. (Muhlenberg) 1950, Hon. LL.D. (Bethany) 1956, (New School for Social Research) 1966; Hon. D.C.L. (New Brunswick) 1960; Hon. L.H.D. (Tusculum Coll.) 1966, Hon. L.H.D. (Rhode Island Coll.) 1969, Hon. Litt.D. (Aquinas Coll.) 1971, Hon. LL.D. (Western New England Coll.) 1974, Hon. LL.D. (Rippon Coll.) 1976, (Iona Coll.) 1977; Parkman Prize 1957, Pulitzer Prize for History 1946, for Biography 1966; Nat. Book Award 1966, Gold Medal, Nat. Inst. of Arts and Letters 1967. *Publications:* Orestes A. Brownson: A Pilgrim's Progress 1939, The Age of Jackson 1945, The Vital Center (English title The Politics of Freedom) 1949, The General and the President (with R. H. Rovere) 1951, The Age of Roosevelt: Vol. I The Crisis of the Old Order 1957, Vol. II The Coming of the New Deal 1958, Vol. III The Politics of Upheaval 1960, Kennedy or Nixon 1960, The Politics of Hope 1963, Paths of American Thought (ed. with Morton White) 1963, A Thousand Days: John F. Kennedy in the White House, 1965, The Bitter Heritage: Vietnam and American Democracy 1941-1966 1967, The Crisis of Confidence 1969, History of American Presidential Elections (ed. with F. L. Israel) 1971, The Imperial Presidency 1973, Robert Kennedy and His Times 1978. *Address:* City University of New York, 33 West 42nd Street, New York, N.Y. 10036, U.S.A. (Office). *Telephone:* 790-4261.

SCHLESINGER, James Rodney, M.A., PH.D.; American economist and government official; b. 15 Feb. 1929, New York, N.Y.; s. of Julius and Rhea (Rogen) Schlesinger; m. Rachel Mellinger 1954; four s. four d.; ed. Harvard Univ.; Asst. and Assoc. Prof., Univ. of Virginia 1955-63; Senior Staff mem. RAND Corpn. 1963-67, Dir. Strategic Studies 1967-69; Asst. Dir., Office of Management and Budget 1969-71; Chair. U.S. Atomic Energy Comm. 1971-73; Dir. Cen. Intelligence Agency Feb.-May 1973; Sec. of Defence 1973-75; Special Asst. to Pres. for Energy Jan.-Aug. 1977; U.S. Sec. for Energy Aug. 1977-; Distinguished Service Medal from U.S. Intelligence Community 1976. *Address:* Department of Energy, Washington, D.C. 20545, U.S.A.

SCHLESINGER, John Richard, C.B.E.; British film and theatre director; b. 16 Feb. 1926, London; s. of Dr. Bernard Schlesinger and Winifred Henrietta Regensburg; ed. Uppingham School and Balliol Coll. Oxford; early career as actor on television and in films Singlehanded, Battle of the River Plate, Brothers in Law and numerous others; directed shorts for Tonight and Monitor; made films for BBC Television including part of The Valiant Years; joined Sapphire Films for Four Just Men; Assoc. Dir. Nat. Theatre 1973-. *Major films:* Terminus 1961 (Venice Golden Lion), A Kind of Loving 1962 (Berlin Golden Bear), Billy Liar 1963, Darling 1965 (New York Film Critics' Award), Far From the Madding Crowd 1967, Midnight Cowboy 1968 (Dirs. Guild of America Award, Acad. Award for best Dir. and British Film Acad. Award), Sunday Bloody Sunday 1970 (David Donatello Award, British Film Acad. Award), Olympic Marathon in Visions of Eight 1973, The Day of the Locust 1974, Marathon Man 1976, Yanks 1978; *plays:* No Why (John Whiting), Aldwych Theatre 1964, Timon of Athens, Royal Shakespeare Theatre, Stratford 1965, Days in the Trees, Aldwych 1966, I and Albert, Piccadilly Theatre 1972, Heartbreak House, Nat. Theatre 1975, Julius Caesar, Nat. Theatre 1977. *Address:* c/o Michael Oliver, Berger, Oliver and Co., 40 Piccadilly, London, W.1, England. *Telephone:* 01-734 7421.

SCHLESINGER, John Samuel; South African business executive; b. 1923; ed. Michaelhouse and Harvard Univ.; U.S. Army Air Corps World War II; Dir. Schlesinger group of insurance, banking and property cos. in U.K. including Schlesinger European Investments Ltd., Throgmorton Securities Ltd., Trident Insurance Co. Ltd., London Consolidated Properties Ltd., Dorrington Investment Ltd. *Address:* Schlesinger Organization, P.O. Box 1182, Johannesburg, South Africa.

SCHLESINGER, Theodore; American retail executive; b. 27 Oct. 1908; ed. City Coll. of New York and Fordham Univ.; Allied Stores Corpn. 1929-, Asst. to Pres. 1939-45, Vice-Pres. 1945-59, Pres. and Chief Exec. Officer 1959-69, Chair. 1970-74. *Address:* Allied Stores Corporation, 1114 Avenue of The Americas, New York, N.Y. 10036, U.S.A.

SCHLIEKER, Willy Hermann; German industrialist; b. 1914; ed. Elementary and High School in Hamburg; Sales Rep. German export firm in Haiti 1936-38; Export Man. Ruhr steel construction firm 1939; with raw material dept. Vereinigte Stahlwerke, Düsseldorf 1940-42; Steel Controller Ministry of War Production 1943-45; Industrial Adviser 1946-47; since 1948 built up the Schlieker Group, comprising Schlieker Yard (shipbuilding), Schlieker Kessel-u. Maschinenbau (engines and boilers), Reederei Willy H. Schlieker & Co. (shipping) (all Hamburg), Walzwerk Neviges (electrical sheet-mill), Metallund Katlwalzwerk Langenberg (strip mill), Schlieker Eisenhandel GmbH (steel), Schrottverwertung Niederrhein GmbH (scrap), Schlieker Anlagen-Export GmbH, Düsseldorf. *Address:* Fischers Allee 97, Hamburg-Altona, Federal Republic of Germany.

SCHLIER, Heinrich; German university professor; b. 1900, Neuburg; s. of H. Schlier and Paula Puls; m. Erna Haas 1927; two s. two d.; ed. Univs. of Leipzig and Marburg; Pastor 1927; Reader, Jena 1928; Marburg Univ. 1930; Lecturer, Theological School, Elberfeld 1935; Pastor, Lutheran Church, Elberfeld 1937; Prof. of the New Testament and Church History Bonn Univ. 1945, Hon. Prof. 1952; Dr. h.c. *Publications:* Religionsgeschichtliche Untersuchungen zu den Ignatiusbriefen 1929, Christus und die Kirche im Epheserbrief 1930, Der Brief an die Galater 1951, 1962, 1965, Der Brief an die Epheser 1957, 1959, 1961, 1963, 1965, 1968, Die Zeit der Kirche 1963, 1965, 1972, Besinnung auf das NT 1964, 1968, Über die Auferstehung Jesu Christi 1968, 1969, Das Ende der Zeit 1971, Der Römerbrief Kommentar 1977, Grundzüge einer paulisischen Theologie 1978. *Leisure interest:* world literature. *Address:* Wegelerstrasse 2, Bonn, Federal Republic of Germany. *Telephone:* 02221/653416.

SCHLOSSER, Hermann; German business executive; b. 8 Oct. 1889; ed. Landgraf-Ludwigs-Gymnasium, Giessen; commercial studies, Hamburg 1908-10; commercial posts, Calcutta and New Delhi 1910-14; joined Deutsche Goldund Silber-Scheidenanstalt (Degussa) 1915; mil. service 1915-18; Degussa 1918-, mem. Board of Dirs. 1926-39, Chair. Board of Dirs. 1939, Chair. Supervisory Board 1959, Hon. Chair. 1965-; Hon. mem. Asscn. of the Chemical Industry. *Address:* Degussa, 6 Frankfurt am Main, Weissfrauenstrasse 9, Postfach 2644, Federal Republic of Germany. *Telephone:* 218-2300.

SCHMAUS, Michael, DR. THEOL.; German theologian and university professor; b. 17 July 1897; ed. Gymnasium Rosenheim and Univ. Munich; ordained 1922; Lecturer Philosophische-theologische Hochschule und Seminar, Freising 1924-29; Lecturer Munich Univ. 1927-29; Prof. of Dogmatic Theology, German Univ. in Prague 1929-33; Prof. Univ. Münster 1933-46, Munich 1946-65, Emer. 1965-, Visiting Prof. Chicago 1969-70; Rector Munich Univ. 1951-52; Peritus of Second Vatican Council 1960-65; mem. Bavarian Acad. of Sciences; Commdr. of Greek Order of Phoenix; Commdr. Spanish Order of Civil Merit; Bayerischer Verdienstorden; Grosses Bundesverdienstkreuz; Päpstlicher Ehrenprälat; Erzbischöflicher Geistliches Rat. *Publications:* Die psychologische Trinitätslehre des Heiligen Augustinus 1927, Der Liber propugnatorius des Thomas Anglicus 1930, Katholische Dogmatik, 8 Vols. 1938-64, Von den letzten Dingen 1948, Handbuch der Katholischen Dogmatik 1969-70, Die Denkform Augustins in seinem Werk "De Trinitate" 1962, Wahrheit als Heilsbegegnung 1964, articles, translations and several series. *Address:* 8035 Gauting bei München, Junkerstrasse 5, Federal Republic of Germany. *Telephone:* Munich 850 2800.

SCHMEISSER, Kurt; German foreign trade official; b. 21 May 1909, Dürrenebersdorf bei Gera; head of China and Glass, and Machine Export Trade Corpns. 1950-58; Foreign Trade Rep. of German Democratic Republic in Iraq and Sweden 1958-62; Gen. Dir. of Int. Leipzig Trade Fair 1962-71, Dir. 1971-; Vaterländischer Verdienstorden in Bronze, and other decorations. *Address:* Leipziger Messeamt, Markt 11/15, 701 Leipzig, German Democratic Republic. *Telephone:* 2030.

SCHMELZER, W. K. Norbert; Netherlands politician; b. 22 March 1921; m.; three c.; ed. Catholic Univ., Tilburg; with Unilever N.V., Rotterdam 1947-50; Ministry of Econ. Affairs 1950-56; State Sec. for Home Affairs 1958-59, for Gen. Affairs 1959-63; mem. Second Chamber of Parl. 1963-71; Minister of Foreign Affairs 1971-73; Industrial Adviser 1973-; Grand Officer Order of Orange-Nassau; Commdr. Order of Netherlands Lion; Ordre national du Mérite and others; Catholic People's Party. *Address:* Park Ond-Wassenaar 1, Flat 40, Wassenaar, Netherlands.

SCHMID, Erich, DR. PHIL.; Austrian scientist; b. 4 May 1896, Bruck a. d. Mur; s. of Dr. med. K. Schmid and A. Monschein; m. Margarete Ludwig 1922 (deceased); one s. three d.; ed. Univ. Wien; mem. staff Kaiser Wilhelm-Inst. für Faserstoffchemie 1922-24; metallurgist, Metallgesellschaft A.G., Frankfurt 1924-28; Head of Physics Dept. Kaiser Wilhelm-Inst. für Metallforschung, Berlin-Dahlem 1928-32; Teacher at Technische Hochschule, Berlin 1932; Prof. and Head of Physics Inst. Univ. of Fribourg (Switzerland) 1932-36; Head of Metal Labs. Metallgesellschaft A.G., Frankfurt 1936-45; Head of Labs. of Vacuumschmelze A.G., Hanau am Main 1946-51; Prof. of Physics and Head of Second Physics Inst. Univ. of Vienna 1951-67, Emer. 1967-; Pres. Austrian Acad. of Sciences 1963-73, Vice-Pres. 1966-67, 1973-; mem. Deutsche Akad. der Naturforscher Leopoldina, Akad. der Wissenschaften der D.D.R., Sächsische Akad. der Wissenschaften zu Leipzig, New York Acad. of Sciences; Hon. mem. Österreichische Physikalische Ges., Japanese Soc. of Metallurgy; Foreign mem. Max-Planck Inst. für Metallforschung, Stuttgart; Dr.Mont.h.c., Dr.Rer.Nat.h.c.; numerous medals and decorations. *Publications:* Kristallplastizität (with W. Boas) 1935, Gleitlager (with R. Weber) 1953, Texturen in Metallen und Legierungen 1957, Bedeutung von Korpuskularbestrahlung für die Eigenschaften von Festkörpern (with K. Lintner) 1955, Werkstoffe des Reaktorbaues (with K. Lintner) 1962, Radiation Damage 1970, Behaviour of Insonated Metals (with K. Lintner) 1970. *Leisure interests:* music, mountains. *Address:* 1090 Vienna, Universitätsstrasse 10, Austria. *Telephone:* 42-40-062.

SCHMID, Karl (Carlo), DR. JUR.; German lawyer, writer and politician; b. 3 Dec. 1896, Perpignan, France; s. of Josef Schmid and Anna (Erra) Schmid; m. Lydia (Hermes) Schmid 1921; three s. (one deceased) one d.; ed. Univ. of Tübingen and Kaiser Wilhelm Inst. of Foreign Public and Int. Law; Lawyer 1924, Judge 1925; Dozent Univ. of Tübingen 1929; Prof. of Public Law 1945-50; Pres. of Social Democratic Party in Württemberg 1946-; mem. Central Cttee. of SPD 1947-; Minister of State in Württemberg 1945-52; mem. of Diet 1946-; mem. of Parl. Council in Bonn 1948-49; mem. and Vice-Pres. Bundestag 1949-73; Prof. of Political Science Univ. of Frankfurt 1953, now Emer.; Minister for Bundesrat and the Länder 1966-69; mem. Council of Europe; mem. PEN; Presidential candidate 1959; Pres. Parl. Assembly of the Western European Union; Dr. h.c. (Sorbonne, Paul) 1973; Goethepreis der Stadt Frankfurt/Main 1967; Hanseatischer Goethepreis 1975. *Publications:* Machiavelli 1956, Politik und Geist 1962; trans. of Baudelaire and Calderón, trans. of Malraux's Antimémoires 1968; Gesammelte Werke 1973. *Address:* 5340 Bad Honnef 6, Paul-Keller-Strasse 34, Federal Republic of Germany. *Telephone:* 02224-80088.

SCHMIDHEINY, Max, DIPL.ENG.; Swiss engineer and industrialist; b. 3 April 1908; s. of Ernst and Vera Schmidheiny-Kuster; m. 1942; three s. one d.; ed. Gymnasium Trogen and Eidgenössische Technische Hochschule, Zürich; Pres. and Dir. of many companies in Switzerland and abroad; fmrly Nat. Councillor and mem. Swiss Chamber od Commerce; fmr. Chair. Brown, Boveri; Vice-Chair. 1978, mem. Board; Chair. HOLDERBANK Financière Glarus Ltd. 1974-; Hon. Freeman of Pagig/Gr.; Dr. h.c. (Univ. of Basel, Graduate School of Econs., Business and Public Admin., St. Gall). *Leisure interest:* flying. *Address:* HOLDERBANK Financière Glarus Ltd., Glarus, Switzerland.

SCHMIDT, Adolph William; American diplomatist; b. 1904; m. Helen Sedgeley Mellon 1936; one s. one d.; ed. Univs. of Princeton, Harvard, Dijon, Berlin and Paris; with Mellon Nat. Bank & Trust Co. 1929-38; with A. W. Mellon, Pittsburgh 1938-42; war service 1942-46; Gov. T. Mellon & Sons 1946-69; Chair. Pa. State Planning Board 1955-67, etc.; U.S. Del., Conf. on North Atlantic Community 1957 and Atlantic Congress 1959; mem. U.S. Citizens Comm. on NATO 1961-62; U.S. Del. Atlantic Convention of NATO nations 1962; Dir. Atlantic Council of U.S. 1962-69; Adviser U.S. Del., Economic Comm. for Europe 1967; mem. Board of Govs. Atlantic Inst., Paris 1960-69; Amb. to Canada 1969-74; mem. Canadian-American Cttee. 1974-; Hon. LL.D. (Univs. of Pittsburgh and New Brunswick, and Princeton Univ.); Hon. L.H.D. (Chatham Coll.). *Address:* R. D4, Ligonier, Pa. 15658, U.S.A.

SCHMIDT, Aleksander; Polish politician; b. 6 May 1919, Wierzbica, near Ostróda; ed. grammar school at Naklo; participated in September Campaign and in the defence of Warsaw; mem. United Peasants' Party (ZSL) 1945-, mem. Presidium of Bydgoszcz Voivodship Cttee. 1950-58, mem. Chief Cttee. 1959-, Presidium of Chief Cttee. 1971-; Vice-Chair. Presidium of Bydgoszcz Voivodship Nat. Council 1950-58; Chair. 1958-71; Chair. Bydgoszcz Voivodship Cttee., Nat. Unity Front 1956-71, mem. All-Poland Cttee. 1959-73; Deputy to Seym 1961-; Pres. Cen. Union of Agricultural Co-operatives 1971-73; mem. Council of State 1972-76; Deputy Chair. Supreme Board of Control 1976-; Medal of 10th Anniversary of People's Poland, Order of Banner of Labour, 1st and 2nd Class, Commdr.'s Cross with Star, Chevalier's Cross of Order Polonia Restituta, Cross of Valour. *Address:* Najwyższa Izba Kontroli, ul. Marszałkowska 82, 00-517, Warsaw, Poland.

SCHMIDT, Arno Otto; German novelist; b. 18 Jan. 1914, Hamburg; s. of Otto Schmidt and Klara Ehrentraut; m. Alice Murawski 1937; ed. Univ. of Breslau; employed 1934-39; Soldier and Prisoner of War 1939-45; Writer 1946-; Grand Prize for Literature, Akademie für Wissenschaft und Literatur, Mainz 1950; Fontanepreis 1964, Grand Award for Literature, Fed. German Industries 1965, Goethe Prize 1973. *Publications:* Leviathan 1949, Brands Haide 1951, Aus dem Leben eines Fauns 1953, Das steinerne Herz 1956, Die Gelehrtenrepublik 1957, Dya [redacted] sore 1958, Rosen und Porree 1959, Kaff 1960, Belphegor 1961, Kühe in Halbtrauer 1964, Die Ritter vom Geist 1965, Trommler beim Zaren 1966, Der Triton mit dem Sonnenschirm 1969, Zettels Traum 1970, Die Schule der Atheisten 1972, Abend mit Goldrand 1975; Biography: Fouqué und einige seiner Zeitgenossen 1958, Sitara und der Weg dorthin (Karl May) 1963; translations from English (Hunter, Ellin, Faulkner, Poe, Cooper, Collins, Joyce, E. Bulwer-Lytton, etc.). *Address:* 3101 Bargfeld Krs. Celle Nr. 37, Federal Republic of Germany. *Telephone:* Steinhorst 500.

SCHMIDT, Carl Frederic, A.B., M.D.; American physician, pharmacologist, physiologist; b. 29 July 1893, Lebanon, Pa.; s. of Jacob Charles Schmidt and Mary Ellen (Greth) Schmidt; m. Elizabeth Viola Gruber 1920; one s. one d.; ed. Lebanon Valley Coll. and Univ. of Pennsylvania; Instructor Dept. of Pharmacology Univ. of Pa. 1919; Assoc. in Pharmacology Peking Union Medical Coll. 1922-24; Asst. Prof. Dept. of Pharmacology Univ. of Pa. 1924-29, Assoc. Prof. 1929-31, Prof. 1931-39, Head of Dept. of Pharmacology 1939-59, Emer. 1959-; Man. Editor Circulation Research 1957-62; Research Dir. Aerospace Medical Research Dept., U.S. Naval Air. Devt. Center 1962-69; Clinical Prof. of Pharmacology, Univ. of S. Florida 1970-; Pres. American Soc. of Pharmacology and Exp. Therapeutics 1948-50; Sec. Int. Council of Pharmacologists 1953-59; Vice-Pres. Int. Union of Physiological Sciences, Pres. Section on Pharmacology 1959-65; Chair. Panel on Physiology U.S. Research and Devt. Board 1948-50, Pharmacology Study Section U.S. Nat. Insts. of Health 1947-51, Advisory Cttee. Life Insurance Medical Research Fund 1954-55, Cttee. on Continuing Medical Educ. of Drug Research Board of U.S. Nat. Acad. of Sciences 1964-69; mem. American Physiology Soc., American Heart Assn., American Acad. of Arts and Sciences; Hon. Pres. Int. Union of Pharmacology 1966-; Hon. Sc.D. (Lebanon Valley Coll.) 1955, (Univ. of Pa.) 1965; Hon. Med.Sc.D. (Charles Univ., Prague) 1963; Hachmeister Award, Georgetown Univ. 1951; Schmiedeberg Plakette, German Pharmacological Soc. 1963. *Major works:* Ephedrine and other Chinese drugs 1923-26; Physiology and pharmacology of: respiration 1926-68, of aerospace medicine 1942-66, of cerebral circulation 1928-66; section on respiration in Bard-Macleod's Textbook of Physiology 1946-56; reviews or monographs on cerebral circulation 1950-60, respiratory control 1940, 1941, 1945, 1951, aerospace pharmacology 1961, 1965, continuing medical education 1969, education on drug abuse 1970. *Leisure interests:* fishing, gardening, photography, hiking, motoring. *Address:* Surfside Tower, 15462 Gulf Boulevard, Madeira Beach, Fla. 33708, U.S.A. *Telephone:* 813-596-3552.

SCHMIDT, Chauncey Everett, B.S., M.B.A.; American banker; b. 7 June 1931, Oxford, Ia.; s. of Walter F. Schmidt and Vilda Saxton; m. Anne Garrett McWilliams 1954; one s. two d.; ed. U.S. Naval Acad., Harvard Graduate School of Business Admin.; with First Nat. Bank of Chicago 1959-, Vice-Pres. 1965, Gen. Man., London 1966, Gen. Man. for Europe, Middle East and Africa 1968, Senior Vice-Pres. 1969, Exec. Vice-Pres. 1972, Vice-Chair. 1973, Pres. 1974-75; Chair. of Board, Pres. and Chief Exec. Officer, Bank of Calif. 1976-; Trustee Art Inst. of Chicago, Chicago Symphony Orch., Hadley School for the Blind; mem. Assn. of Reserve City Bankers. *Leisure interests:* tennis, swimming. *Address:* The Bank of California, N.A., 400 California Street, San Francisco, Calif. 94104 (Office); 2122 Middlefork Road, Northfield, Ill. 60093, U.S.A. (Home). *Telephone:* 212-446-0325 (Home).

SCHMIDT, Helmut, German economist and politician; b. 23 Dec. 1918, Hamburg; s. of Gustav and Ludovica Schmidt; m. Hannelore Glaser 1942; one d.; ed. Lichtwarkschule and Univ. Hamburg; Man. Transport Admin. of State of Hamburg 1949-53; mem. Social Democrat Party 1946-; mem. Bundestag 1953-62, 1965-; Chair. Social Democrat (SPD) Parl. Party in Bundestag 1967-69; Vice-Chair. SPD 1968-; Senator (Minister) for Domestic Affairs in Hamburg 1961-65; Minister of Defence 1969-72, for Econ. and Finance July-Dec. 1972, of Finance 1972-74; Fed. Chancellor May 1974-; Hon. D.C.L. (Oxford) 1979; European Prize for Statesmanship (F.U.S. Foundation) 1979. *Publications:* Defence or Retaliation 1962, Beiträge 1967, Strategie des Gleichgewichts 1969 (English edition "Balance of Power" 1970), Auf dem Fundament des Godesberger Programms 1973, Bundestagsreden (2nd edition) 1975, Kontinuität und Konzentration (2nd edition) 1976, Als Christ in der Politischen Entscheidung 1976. *Address:* Bundeskanzleramt, Adenauerallee 139-141, 53 Bonn 1, Federal Republic of Germany.

SCHMIDT, Maarten, PH.D., SC.D.; Netherlands astronomer; b. 28 Dec. 1929, Groningen; s. of W. Schmidt and A. W. Haringhuizen; m. Cornelia J. Tom 1955; three d.; ed. Univs. of Groningen and Leiden; Scientific Officer Univ. of Leiden Observatory 1949-59; Carnegie Fellow Mt. Wilson Observatory, Pasadena 1956-58; Assoc. Prof. Calif. Inst. of Technology 1959-64, Prof. of Astronomy 1964-; discovered large red shifts in spectra of quasi-stellar radio sources (quasars); Rumford Award, American Acad. of Arts and Sciences 1968. *Leisure interest:* classical music. *Address:* California Institute of Technology, Pasadena, Calif. 91125, U.S.A. *Telephone:* 213-795-6841.

SCHMIDT, Werner P., DR.RER.POL.; German business executive; b. 5 July 1932, Borken, Westphalia; m. Annely Bresser 1957; one s. one d.; ed. Univ. of Münster, Kalamazoo Coll., Michigan, Univ. of Cologne; Sales Planning Man., Marketing Man., Domestic Sales Man., Ford Werke AG 1956-67; Export Man., Volkswagen Werk AG 1967-71; Pres. Volkswagen do Brasil 1971-73; Chair. Management Board, Audi NSU Auto Union AG 1973-75, mem. Management Board, Volkswagen AG 1975-. *Address:* Volkswagen AG, 3180 Wolfsburg, Federal Republic of Germany.

SCHMIDT-CLAUSEN, Kurt Hermann, DR.THEOL.; German international church official; b. 1 Oct. 1920, Hanover; m. Erika Rokahr 1943; one s. one d.; ed. Hanover Gymnasium, Univs. of Vienna and Göttingen, Christ Church Coll. Oxford, and Loccum Preachers' Seminary; Pastor City Parish, Hanover 1951-52; mem. Admin. Staff Evangelical Lutheran Church of Hanover 1952-55; Pastor Wunstorf Suburban Parish (near Hanover) 1955-60; Asst. Exec. Sec., later Acting Exec. Sec., Lutheran World Fed. 1960-61, Exec. Sec. 1961-64, Gen. Sec. 1964-65, mem. Exec. Cttee. 1972-; Chair. Ecumenical Comm., Evangelical Lutheran Church of Hanover; Chair. Ecumenical Comm., United Evangelical Lutheran Church of Germany; Editor Lutherische Monatshefte (monthly); Landessuperintendent of Osnabrück Diocese. *Publications:* Vorweggenommene Einheit 1964, Reformation als Oekumenisches Ereignis 1970. *Leisure interest:* Roman archaeology. *Address:* 4500 Osnabrück, Bismarckstrasse 8, Federal Republic of Germany.

SCHMIDT-NIELSEN, Knut, DR. PHIL.; American professor of physiology; b. 24 Sept. 1915, Norway; s. of Sigval and Signe Torborg (Sturzen-Becker) Schmidt-Nielsen; ed. Oslo and Copenhagen Univs.; Research Fellow Carlsberg Labs., Copenhagen 1941-44; Research Fellow, Univ. of Copenhagen 1944-46; Research Assoc. Swarthmore Coll. Dept. of Zoology 1946-48; Research Assoc. Stanford Univ. Dept. of Physiology 1948-49; Docent Univ. of Oslo 1947-49; Asst. Prof. Univ. of Cincinnati Coll. of Medicine 1949-52; Prof. of Physiology Dept. of Zoology Duke Univ. 1952-; James B. Duke Prof. of Physiology 1963-; mem. Nat. Acad. of Sciences, Royal Norwegian Soc. of Arts and Science 1973, Royal Danish Acad. 1975; Fellow, American Acad. of Arts and Sciences, N.Y. Acad. of Science, American Assn. for Advancement of Science; Foreign Assoc. Acad. des Sciences (France) 1968, Guggenheim Fellow, Algeria 1953-54; Brody Memorial Lecturer Univ. of Mo. 1962; Harvey Soc. Lecturer 1962 (Hon. mem. 1962); Regents' Lecturer Univ. of Calif. (Davis) 1963; Hans Gadow Lecturer Cambridge Univ. 1971; Visiting Agassiz Prof. Harvard Univ. 1972; mem. numerous scientific Cttees, including Advisory Board to the Physiological Research Laboratory Scripps Inst. of Oceanography 1963-69, Chair. 1968-69; U.S. Nat. Cttee. for Int. Union of Physiological Sciences 1966-78, Vice-Chair. 1969-78; Biomedical Engineering Advisory Cttee., Duke Univ. 1968-; Animal Resources Advisory Cttee., Nat. Institute of Health 1968; mem. Organizing Cttee., First Int. Conf. Comparative Physiology 1972, Pres. 1972-; mem. Advisory Board, Bio-Medical Sciences, Inc. 1973-74; Chair. Interunion Comm. on Comparative Physiology 1976-; mem. Editorial Board several scientific journals. *Publications:* Animal Physiology 1960, Desert Animals, Physiological Problems of Heat and Water 1964, How Animals Work 1972, Animal Physiology, Adaptation and Environment 1975 (Spanish trans. 1976); numerous articles. *Address:* Department of Zoology, Duke University, Durham, N.C. 27706, U.S.A. *Telephone:* 919-684-2687.

SCHMIT, André, L. EN DR.; French civil servant; b. 12 Feb. 1915, Geneva, Switzerland; m. Nicole Delmas 1942; two s. one d.; ed. Ecole des Sciences Politiques, Ecole Nat. de la France d'Outre-Mer (Indo-China) and Cambridge Univ.; Colonial Admin. (Senegal and Indo-China) 1941-45; Asst. Dir. Press Relations, Ministry of Information 1936, Inspector Gen. 1946; Dir. Press Council 1947; Dir. Nouvelles Messageries de la Presse Parisienne 1949-; Chef de Cabinet, Ministry of Public Works and Reconstruction 1954-55; Chef de Cabinet, Ministry of State 1956-57, Ministry of Defence 1957; Chef de Cabinet of Pres. of Nat. Assembly 1958-; Directeur du Cabinet of Pres. of Nat. Assembly June 1969-; Pres. Bill-posting and Advertising Administration 1964; Officier Légion d'honneur; Commdr. Ordre nat. du Mérite. *Address:* 48 avenue de New York, 75016 Paris, France.

SCHMITT, Francis Otto, PH.D.; American neurobiologist; b. 23 Nov. 1903, St. Louis, Mo.; s. of Otto Franz and Clara Elizabeth (Senniger) Schmitt; m. Barbara Hecker 1927; two s. (one deceased) one d.; ed. Univ. Coll., London, Kaiser Wilhelm Inst., Berlin-Dahlem, Washington Univ., Univ. of Calif., Berkeley, St. Louis Univ.; Asst. Prof. of Zoology, Washington Univ. 1929-34, Assoc. Prof. 1934-38, Prof. 1938-40, Head of Dept. 1940; Prof. of Biology, M.I.T. 1941, Head of Dept. 1942-55, Inst. Prof. 1955-69, Inst. Prof. Emer. 1969-, Chair. Neurosciences Research Program 1962-74, mem. 1974-; mem. Nat. Acad. Sciences, Nat. Research Council's Cttee. on Neurobiology 1945, Cttee. on Growth 1946-50, Cttee. on Radiation Cataracts 1949-53, Cttee. on Atherosclerosis 1953-54, Biology Council 1954-56, Nat. Advisory Health Council U.S. Public Health Service 1959-63, Nat. Advisory Gen. Medical Sciences Council 1969-71; mem. Board of Science Consultants of Sloan-Kettering Inst. of Cancer Research 1963-71, Cttee. for Fellowships for Basic Neuroscience Research, Sloan Foundation 1971-, Nat. Advisory Council Marine Biomedical Inst., Univ. of Texas 1973-, Nat. Insts. of Health 1976-; Trustee and exec. mem. of several insts.; Fellow, American Acad. of Arts and Sciences (Council mem. 1950-52, 1964-65), A.A.A.S., New York Acad. of Sciences; mem. numerous scientific socs. including Soc. of Gen. Physiologists, American Philosophical Soc. (Council mem. 1964-66, Vice-Pres. 1973-75), Soc. for Growth and Devt. (Treas. 1945-46, Pres. 1947), Biophysical Soc. (Council mem.), Electron Microscope Soc. of America (Dir. 1944-47, Pres. 1949), Nat. Acad. of Sciences, Swedish Royal Acad. of Sciences, Soc. Philomathique de Paris; Hon. D.Sc. (six univs.), Hon. M.D. (Univ. of Gothenburg, Sweden), Hon. LL.D. (Wittenburg Univ. and Juniata Coll.); Alsop Award of American Leather Chemical Assn. 1947, Lasker Award of American Public Health Assn. 1956, T. Duckett Jones Memorial Award of Helen Hay Whitney Foundation 1963. *Publications:* Fundamental Transfer Processes in Aqueous Biomolecular System 1960, Macromolecular Specificity and Biological Memory 1962, Neurosciences—A Study Program 1967, Neurosciences—Second Study Program 1970, Neurosciences—Third Study Program 1973, Neurosciences Research Symposium Vols. I-VII 1966-74, Functional Linkage in Biomolecular Systems 1974. *Leisure interest:* music. *Address:* Massachusetts Institute of Technology, Neurosciences Research Program, 165 Allandale Street, Jamaica Plain, Mass. 02130; 72 Byron Road, Weston, Mass. 02193, U.S.A. (Home). *Telephone:* 617-522-6700 (Office); 617-235-6975 (Home).

SCHMITT, Harrison H.; American politician and fmr. astronaut; b. 3 July 1935, Santa Rita, N.M.; s. of Harrison A. and Ethel Hagan Schmitt; ed. Calif. Inst. of Technology, Univ. of Oslo, Norway, and Harvard Univ.; Fulbright Fellowship 1957-58, Kennecott Fellowship in Geology 1958-59, Harvard Fellowship 1959-60, Harvard Travelling Fellowship 1960, Parker Travelling Fellowship 1961-62, Nat. Science Foundation Postdoctoral Fellowship, Dept. of Geological Sciences, Harvard 1963-64; has done geological work for Norwegian Geological Survey, Oslo, and for U.S. Geological Survey, N.M. and Montana; with U.S. Geological Survey Astrogeology Dept. until 1965; Project Chief on photo and telescopic mapping of moon and planets; selected as scientist-astronaut by NASA June 1965; completed flight training 1966; Lunar Module pilot Apollo XVII Dec. 1972; Chief, Astronaut Office, Science and Applications, Johnson Space Center 1974; Asst. Admin., Energy Programs, NASA, Washington, D.C. 1974-76; Senator from New Mexico Jan. 1977-; Republican. *Address:* Senate Office Building, Washington, D.C. 20510, U.S.A.

SCHMITT-VOCKENHAUSEN, Hermann, DR.JUR.; German politician and publisher; b. 31 Jan. 1923, Vockenhausen; s. of Valentin and Katharina (née Wolf) Schmitt; m. Ruth Schulz 1951; one d.; ed. Goethe-Gymnasium, Frankfurt-am-Main and Univ. of Frankfurt; Adviser Hessisches Innenministerium 1945-48; with Max Gehlen Verlag 1950-77; head of own publishing houses; mem. Bundestag (SPD) 1953-, Chair. Inner Council 1961-69, Vice-Pres. 1969-; Pres. Deutscher Städte-und Gemeindebund 1973-; Pres. Deutsche-Ibero-Amerikanische Gesellschaft; mem. Zentral Komitee der Deutschen Katholiken; Dr. h.c. (Seoul Nat. Univ.). *Publication:* Die Wahlprüfung in Bund und Ländern unter Einbeziehung Österreichs und der Schweiz. *Leisure interests:* football, stamps. *Address:* 6232 Bad Soden (Taunus), Oranienstrasse 20, Federal Republic of Germany. *Telephone:* 06196/23129.

SCHMITZ, Wolfgang, LL.D.; Austrian economist, banker and editor; b. 28 May 1923, Vienna; s. of Dr. Hans Schmitz and Maria Habel; m. Dr. Elisabeth Mayr-Harting 1951; one s. four d.; ed. Univs. of Vienna and Fribourg (Switzerland), Catholic Univ., Washington, D.C.; legal practice 1949-50; Austrian Fed. Econ. Chamber 1950-64, Sec. Econ. Policy Dept. and Sec. Austrian Nat. Cttee. of Int. Chamber of Commerce 1950-64; Chair. Beirat für Wirtschafts- und Sozialfragen 1963-64; Head of Econ. Policy Dept. Jan.-April 1964; Fed. Minister of Finance 1964-68; Pres. Austrian Nat. Bank 1968-73, Inst. for Advanced Studies 1968-; Gov. of World Bank for Austria 1964-68, of IMF 1968-73; Dir. Austrian Inst. for Econ. Research 1968-73; Hon. Pres. Austro-American Soc., Austro-Japanese Soc.; Lecturer Univ. Innsbruck; Chair. of Ed. Cttee. Europäische Rundschau, Vienna; Co-editor Die Furche, Vienna; Hon. LL.D. (St. John's Univ., New York). *Publications:* Der Ausgleich der Familienlasten-Allgemeine Theorie und praktische Verwirklichung in Österreich 1955, Die Österreichische Wirtschaftspolitik im Zeichen der Europäischen Integration 1960, Die Österreichische Wirtschafts- und Sozialpolitik, Würdigung, Kritik, Ansatzpunkte 1961, Geldwertstabilität und Wirtschaftswachstum —Währungspolitik im Spannungsfeld des Konjunkturveraufs (editor) 1970, Convertibility, Multilateralism and Freedom—World Economic Policy in the Seventies (editor) 1972, International Investment—Growth and Crisis 1975, Die antizyklische Konjunktur-politik—eine Illusion 1976, and numerous articles on economic, financial and social policy matters. *Address:* c/o Austrian Federal Economic Chamber, 10 Biberstrasse, 1010 Vienna; Gustav Tschermak Gasse 3/2, 1180 Vienna, Austria (Home). *Telephone:* 522216 (Office); 343333 (Home).

SCHMÜCKER, Kurt; German politician; b. 10 Nov. 1919, Löningen; s. of Friedrich and Gertrud Schmücker; m. Ilse Varelmann 1944; two s. four d.; ed. Secondary School and Trade School; apprentice to printing and journalism; mil. service 1939-46; printing works, Oldenburg 1946-, owner 1954-; mem. Bundestag 1949-72, Chair. Econ. Policy Cttee; Minister of Economics 1963-66, for Fed. Property 1966-69; Christian Democrat. *Leisure interest:* classical music. *Address:* 4573 Löningen/Oldberg, Allee, Federal Republic of Germany.

SCHMÜCKER, Toni; German business executive; b. 23 April 1921, Frechen; mem. Board Ford-Werke AG 1961-68, Rheinstahl AG March-July 1968; Chair. of Board Rheinstahl AG 1968-75; Chair. Man. Board Volkswagenwerk AG 1975-; Chair. Supervisory Board Audi NSU Auto Union 1975-. *Address:* Volkswagenwerk AG, 318 Wolfsburg, Federal Republic of Germany. *Telephone:* 05361/221 (Office).

SCHMUDE, Dr. Jürgen; German lawyer and politician; b. 9 June 1936, Insterburg; m.; two c.; ed. Göttingen, Berlin, Bonn, Cologne Univs.; practised law, Essen; mem. Social Democratic Party; various local party functions 1957-; mem. town council and del. district council, Moers 1964-71; mem. Bundestag 1969-; Sec. of State to Fed. Minister of the Interior 1974-76; Fed. Minister of Educ. and Science Feb. 1978-. *Address:* Bundesministerium für Bildung und Wissenschaft, Stresemannstrasse 2, 5300 Bonn-Bad-Godesberg, Federal Republic of Germany.

SCHNEIDER, Alan Leo (Abram Leopoldovitch); American (b. Russian) theatre director and lecturer; b. 12 Dec. 1917, Kharkov, Russia; s. of Leo Victor and Rebecka (Malkin); m. Eugenie Muckle 1953; one s. one d.; ed. Forest Park High School, Baltimore, Maryland, Maryland Inst. of Art, Baltimore, Johns Hopkins Univ., Univs. of Maryland and Wisconsin and Cornell Univ.; Office of War Information 1943-44; Instructor Speech and Drama Dept. The Catholic Univ. of America 1941-47, Asst. Prof. 1949-52; Artistic Dir. Arena Stage, Washington, D.C. 1952-53, Assoc. Dir. 1961-63, 1972-; Drama Critic The New Leader 1962-63; Assoc. Dir. Tyrone Guthrie Theatre 1964; Artistic Dir. Ithaca Festival Theater 1963-, Actors Studio Theatre 1962-; mem. Board of Dirs. Theatre Communications Group 1963-; Prof. of Theatre Arts Boston Univ. 1972-; mem. Advisory Board New Dramatists Cttee. 1955-, Tulane Drama Review 1962-, N.Y. State Council on the Arts 1965-, Nat. Theatre Conf. 1965, Exec. Board Soc. of Stage Dirs. and Choreographers 1972-; mem. Advisory Board Nat. Endowment for the Arts 1974-; Assoc. Dir. Drama Div. Juilliard School of Music 1975-76, Dir. Theater Center Juilliard School 1976-; Chair. Theater Panel Nat. Endowment of the Arts; Vice-Pres. Soc. of Stage Dirs. and Choreographers 1976-; Lecturer at major Univs. in U.S. 1945-; has directed plays in U.S.A., England, Israel, France and U.S.S.R.; recent awards include Antoinette Perry Award for Virginia Woolf 1963, "Obie" Award for Pinter plays 1963, Prix Filmcritica, Venice 1965, Prix Special du Jury, Touts 1966, Preis der Kurzfilmtage, Oberhausen 1966, Drama Desk Award for Outstanding Dir. (Texas Trilogy) 1977; Hon. L.H.D. (Hofstra Univ.) 1974. *Plays directed include:* The Skin of Our Teeth 1955, Waiting for Godot 1956, 1971, The Trip to Bountiful 1956, Endgame 1958; Happy Days 1961, The Caucasian Chalk Circle 1961, The Dumbwaiter 1962, The Collection 1962, Who's Afraid of Virginia Woolf? 1962, 1964, Herakles 1965, Slapstick Tragedy 1966, A Delicate Balance 1966, The Cherry Orchard 1966, The Birthday Party 1967, You Know I Can't Hear You When the Water's Running 1967, I Never Sang for My Father 1967, Box-Mao-Box 1968, Inquest 1970, Saved 1970, Moonchildren 1971, Not I 1972, Uptight 1972, The Foursome 1972, Enemies 1973, Our Town 1973, The Madness of God 1974, 1976, The Last Meeting of the Knights of the White Magnolia 1975, A Texas Trilogy 1976, Footfalls 1977, That Time 1977, Loose Ends 1979. *Films and TV:* Oedipus the King 1956, The Life of Samuel Johnson 1957, The Years Between 1958, The Secret of Freedom 1959, Waiting for Godot 1960, Film 1964, Act Without Words, II 1965, Eh, Joe? 1966, Krapp's Last Tape 1971, The Madness of God 1975. *Leisure interests:* swimming, walking, reading, being at home. *Address:* 30 Scenic Drive, Hastings-on-Hudson, N.Y. 10706, U.S.A.

SCHNEIDER, Liliane Louise Hélène; French company executive; b. 26 Sept. 1902. Cinematographer 1931; Dir. of Schneider and Co. 1960; Dir. of Usines Schneider 1960-70; Dir. and Hon. Pres. Schneider S.A. 1966-; Chevalier Légion d'honneur. *Address:* 42 rue d'Anjou, 75008 Paris, France.

SCHNEIDER, William George, PH.D., F.R.C.S., F.R.S.; Canadian physical chemist; b. 1 June 1915, Wolseley, Saskatchewan; s. of Michael Schneider and Phillipina Kraushaar; m. Jean Purves 1940; two d.; ed. Saskatchewan, McGill and Harvard Univs.; Research Physicist Oceanographic Inst., Woods Hole, Mass., U.S. 1943-46; Research Chemist Div. of Pure Chem. Nat. Research Council of Canada, Ottawa 1946, Dir. Div. of Pure Chem. 1963-66, Vice-Pres. (Scientific) 1965-67, Pres. 1967-; Hon. LL.D. (Alberta, Laurentian); Hon. D.Sc. (Memorial, Saskatchewan, Moncton, McMaster, Laval, York, New Brunswick, Montreal, McGill, Acadia, Regina), D.Sc. (Ottowa Univ.) 1978; Henry Marshall Tory Medal of the Royal Soc. of Canada; Chemical Inst . of Canada Medal, Montreal Medal 1973, Decorated Order of Canada 1977. *Publications:* High Resolution Nuclear Magnetic Resonance (with J. A. Pople and H. J. Bernstein) 1959; over 120 scientific papers. *Leisure interests:* skiing, tennis. *Address:* National Research Council of Canada, Ottawa, Ont. K1A 0R6, Canada. *Telephone:* 613-993-2024.

SCHNEIDERHAN, Wolfgang; Austrian violinist; b. 28 May 1915; m. Irmgard Seefried (*q.v.*) 1948; two d.; studied under Prof. Julius Winkler and Prof. Ottokar Sevcik; debut in Copenhagen 1926; leader Vienna Symphonic Orchestra 1933-37, Vienna Philarmonic Orchestra 1937-39; mem. Schneiderhan Quartet 1937-51; Prof. Mozarteum, Salzburg 1938-56; Prof. Staatsakademie, Vienna 1939-50; Prof. Musik-Hochschule, Vienna 1975-; formed trio with Edwin Discher and Enrico Mainardi 1949-55; Leader of master classes, Lucerne 1949-; founded Festival of Strings, Lucerne 1956; Conductor 1965-; mem. Royal Acad. of Music, Stockholm; Hon. mem. Verein des Beethoven-Hauses, Bonn 1964-; Schubert Medal 1927, Musikpreis Stadt Berlin 1940, Mozart Medal 1941, 1953, Nicolai Medal (Vienna Philharmonic) 1942, Grosses Ehrenkreuz (1st class) 1961, Grosses Verdienstorden (Fed. Repub. of Germany) 1965, Ritterkreuz Daneborg-Orden (Denmark) 1963. *Musical arrangements:* Beethoven Violin Concerto 1968, works by Brahms, Mozart, Haydn, Tartuii, Viotti 1977. *Address:* Kaasgrabeng. 98 A, 1190 Vienna, Austria.

SCHNITZER, Moshe, M.A.; Israeli diamond exporter; b. 21 Jan. 1921; ed. Balfour High School, Tel-Aviv, Hebrew Univ. of Jerusalem; Chair. Assen. of Diamond Instructors 1943-46; Vice-Pres. Israel Diamond Exchange 1951-66, Pres. 1966-; Pres. Israel Exporters' Assen. of Diamonds 1962-; World Pres. Int. Fed. of Diamond Exchanges 1968-72; partner Diamond Export Enterprise 1953-; mem. Consulting Cttee. to Minister of Commerce and Industry 1968-; Editor The Diamond; Most Distinguished Exporter of Israel

1964. *Publication:* Diamond Book (in Hebrew) 1946. *Address:* Israel Diamond Exchange, 3 Jabotinsky Road, Ramat Gan; and 78 Sharet Street, Tel-Aviv, Israel.

SCHNURRE, Wolfdietrich; German writer; b. 22 Aug. 1920, Frankfurt am Main; s. of Dr. Otto Schnurre; m. Marina Schnurre 1966, one s.; ed. Humanistisches Gymnasium; Army Service 1939-45; Freelance writer 1945-; Founder-mem. "Group 47" 1947; mem. Akademie für Sprache und Dichtung 1959, West German PEN 1958-61; Young Generation Prize, City of Berlin 1958, Immermann Prize, Düsseldorf 1959, George Mackensen Literature Prize 1962. *Publications:* Aufzeichnungen des Pudels Ali (satire) 1951, 1962, Kassiber (poems) 1956, 1964, Abendländler (satirical poems) 1957, Protest im Parterre (fables) 1957, Eine Rechnung, die Nicht Aufgeht (short stories) 1958, Als Vaters Bart noch Rot War (novel) 1958, Das Los Unserer Stadt (novel) 1959, Man Sollte Dagegen Sein (short stories) 1960, Die Mauer des 13 August (documentary) 1961, Berlin—eine Stadt Wird Geteilt (documentary) 1962, Funke im Reisig (short stories) 1963, Schreibtisch unter freiem Himmel (essays) 1964; Ohne Einsatz Kein Spiel (short stories) 1964, Die Erzählungen (stories) 1966, Spreezimmer möbliert (radio plays) 1967, Die Zwengel (for children) 1967, Was ich für mein Leben gern tue (collection of prose pieces) 1968, Ein Schneemann für den grossen Bruder (for children) 1969, Gocko (for children) 1970, Die Sache mit den Meerschweinchen (for children) 1970, Schnurre heiter (short stories) 1970, Die Wandlung des Hippipotamos (satire) 1970, Immer mehr Meerschweinchen (for children) 1971, Der Spatz in der Hand (tales and verse) 1971, Wie der Koalabär wieder lachen lernte (for children) 1971, Der Meerschweinchendieb (for children) 1972, Auf Tauchstation (prose pieces) 1973, Ich frag ja bloss (dialogue) 1973, Der wahre Noah (satire) 1974, Schnurren und Murren (for children) 1974, Ich brauche Dich (short stories) 1976. *Leisure interest:* drawing. *Address:* Goethestrasse 29, 1 Berlin 37, Federal Republic of Germany. *Telephone:* 802-80-63.

SCHNYDER, Felix; Swiss diplomatist; b. 5 March 1910, Burgdorf; m. Sigrid Bucher 1941; one d.; ed. Berne Univ.; served in Swiss Foreign Service, Berne, Moscow, Berlin, Washington 1940-57; Swiss Minister to Israel 1957-58; Perm. Swiss observer at UN 1958-60; Chair. Exec. Cttee. UNICEF 1960; UN High Commr. for Refugees 1961-65; Amb. to U.S.A. 1966-75; Pres. Swiss Nat. Comm. for UNESCO 1975-. *Leisure interests:* chess, gardening, mountaineering. *Address:* Via Navegna 25, 6648 Minusio, Locarno, Switzerland.

SCHOCKEMÖHLE, Alwin; German show jumper; b. 27 May 1935, Osterbrock, Kreis Meppen; s. of Aloys and Josefa (née Borgerding) Schockemöhle; m. Gabriele Wilshaus 1966 (divorced 1978); two s. one d.; began riding 1946, in public events 1948-; trained in Mil. riding 1954-55; reserve for Mil. and Showjumping, Melbourne Olympics 1956; specialized in showjumping 1956-77; first Derby win, riding "Bachus", Hamburg 1957; continually in int. showjumping events 1960-77; Showjumping Champion Fed. Repub. of Germany (four times); second in European Championship (three times); European Champion riding "Warwick" 1975, 1976; Gold Medal (Team Award) Rome Olympics 1960; Gold Medal (Individual Award) and Silver Medal (Team Award) riding "Warwick" Montreal Olympics 1976. *Publication:* Sportkamerad Pferd (A Horse for Companion in Sport). *Address:* c/o Werner Schockemöhle, Hebbelstrasse, 2842 Lohne-Hopen, Federal Republic of Germany.

SCHOCKEN, Gershom Gustav; Israeli editor and publisher; b. Sept. 1912; ed. Univ. of Heidelberg and London School of Economics; joined staff of Haaretz (daily newspaper) 1937; publisher and editor 1939-; Dir. Schocken Publishing House Ltd.; mem. Knesset (Parliament) 1955-59. *Address:* Haaretz Building, 21 Salman Schocken Street, P.O. Box 233, Tel-Aviv, Israel. *Telephone:* Tel-Aviv 623311.

SCHOEMAN, Hendrik; South African politician; b. 11 June 1927, Delmas, Transvaal; m. Christelle Loedolff; two s. one d.; ed. Afrikaans Boys' High School, Pretoria; mem. for Standerton Nat. Party 1966-; Deputy Minister of Agric. 1968-72, Minister July 1972-; fmr. Chair. of Board Langeberg Co-operative; Chair. of Delmas Agricultural Corpn., Delmas Consumer Corpn.; mem. of Co-operative Council and Maize Cttee., Transvaal Agricultural Union; widespread farming interests. *Address:* Ministry of Agriculture, Pretoria, Republic of South Africa.

SCHOLANDER, Per Fredrik, M.D., PH.D.; American scientist; b. 29 Nov. 1905, Orebro, Sweden; s. of Torkel F. and Agnethe Faye-Hansen Scholander; m. Susan Irving Scholander 1951; ed. Univ. of Oslo; botanical explorations in Greenland and Spitsbergen 1930-32; Research Fellow in Physiology, Univ. of Oslo 1932-39; Rockefeller Fellow 1939-41; Research Assoc. Dept. of Zoology, Swarthmore Coll. 1939-43; U.S. Air Force 1943-46; Research Biologist 1946-49; Research Fellow, Harvard Medical School 1949-51; Physiologist, Woods Hole Oceanographic Inst. 1952-55; Prof. of Physiology and Dir. Inst. of Zoophysiology, Univ. of Oslo 1955-58; Prof. of Physiology, Scripps Inst. of Oceanography, Univ. of Calif. 1958-74; Dir. Physiological Research Lab., Univ. of Calif. at San Diego 1963-70; mem. Royal Swedish Acad. of Sciences 1974; mem. Nat. Acad. of Sciences, American Philosophical Soc. etc.; Guggenheim Fellowship 1969; Hon. D.Sc. (Alaska) 1973, (Uppsala) 1977. *Publication:* Osmosis and Tensile Solvent (co-author) 1976. *Address:* 8374 Paseo del Ocaso, La Jolla, Calif. 92037, U.S.A.

SCHOLEM, Gershom, PH.D.; Israeli professor; b. 5 Dec. 1897, Berlin, Germany; s. of Arthur Scholem and Betty née Hirsch; m. 1st Elsa Burchhard 1923 (divorced 1936), 2nd Fania Freud 1936; ed. Berlin, Jena, Berne and Munich Univs.; Lecturer Hebrew Univ., Jerusalem 1925, Prof. of Jewish Mysticism 1933-65; Dean, Hebrew Univ. 1941-43, now Prof. Emer. Inst. of Jewish Studies; Visiting Prof. Jewish Inst. of Religion, New York 1938, 1949, Brown Univ., Providence, R.I. 1956-57, Hebrew Union Coll., Cincinnati 1966, Boston Univ. 1975; Pres. Israel Acad. of Sciences and Humanities 1968-74; mem. British Acad., Dutch Acad. of Sciences, American Acad. of Arts and Sciences (Boston), American Acad. for Jewish Research, Westfälische Akad. der Wissenschaften, Akad. der Künste, Berlin; Israel State Prize 1958, Rothschild Prize 1962, Reuchlin Prize 1969, Harvey Prize 1974, Literature Prize, Bavarian Acad. of Arts 1974. *Publications:* forty books on Judaism and Jewish Mysticism (in Hebrew, German and English). *Address:* The Israel Academy of Sciences and Humanities, P.O. Box 4040, Jerusalem; 28 Abarbanel Street, Jerusalem, Israel (Home). *Telephone:* 36211 (Office); 32693 (Home).

SCHOLEY, Robert; British engineer; b. 8 Oct. 1921, Sheffield; s. of Harold and Eveline Scholey; m. Joan Methley 1946; two d.; ed. King Edward VII School, Sheffield Univ.; joined United Steel Co. 1947, holding various engineering and production posts within the organization until the nationalization of the steel industry; Dir. Rotherham Div., Midland Group (British Steel Corpn.) 1968, Dir. Special Steels Div., Steelworks Group 1970, Man. Dir. Operations 1972, Man. Dir. Strip Mills Div. 1972-73, Chief Exec., mem. of Board 1973-76, Deputy Chair. and Chief Exec. Sept. 1976-. *Leisure interests:* history of the arts, reading, photography, camping, gardening. *Address:* British Steel Corporation, 33 Grosvenor Place, London, SW1X 7JG; The Coach House, Much Hadham, Herts., England (Home). *Telephone:* 01-235 1212 (Office); Much Hadham 2908 (Home).

SCHOLL, Günther; German diplomatist; b. 11 Jan. 1909, Stettin; s. of Hermann Scholl and Hertha née Krause; m. 1st Brunhild Meister (died 1969), two d.; m. 2nd Dr. Anna Elisabeth Wolff 1971; two d.; Scientific Asst., Foreign Office 1939-45; at Diergardt-Mevissen III coal mine 1945-50; Ministry of Interior 1950-52; rose through German Diplomatic Service, Belgrade 1954-56, Foreign Office 1956-60, Moscow 1960-63; Amb. to Pakistan 1963-70, to Denmark 1970-73; Commdr., Order of Phoenix, Grosses Bundesverdienstkreuz mit Stern, Hilal-i-Quaid-i-Azam (Pakistan), Grand Cross of Dannebrog (Denmark). *Leisure interests:* art, history, music, sport. *Address:* 8000 Munich 19, Zuccalistrasse 17a, Federal Republic of Germany. *Telephone:* 17-55-20.

SCHON, Baron (Life Peer), cr. 1976, of Whitehaven in the County of Cumbria; **Frank Schon,** Kt.; British industrialist; b. 18 May 1912, Vienna, Austria; s. of Dr. Frederick Schon and Henriette (née Nettel); m. Gertrude Secher 1936; two d.; ed. Rainer Gymnasium, Univ. of Prague, Univ. of Vienna; co-founder Marchon Products Ltd. 1939, Solway Chemicals Ltd. 1943, Chair. and Man. Dir. of both until 1967; mem. Nat. Research Devt. Corpn. 1967-79, Chair. 1969-79; Chair. Cumberland Devt. Council 1964-68; Dir. Albright & Wilson Ltd. 1956-67, Blue Circle Industries Ltd. 1967-; mem. Council, King's Coll., Newcastle, in Durham Univ. 1959-63; mem. Council, Univ. of Newcastle upon Tyne 1963-66, mem. Univ. Court 1963-78; mem. Northern Econ. Planning Council 1965-68, Industrial Reorganization Corpn. 1966-71, Advisory Council of Tech. 1968-70; Part-time mem. Northern Gas Board 1963-66; Hon. D.C.L. (Durham Univ.) 1961; Freeman of Whitehaven 1961. *Leisure interests:* golf, reading. *Address:* 82 Prince Albert Court, 33 Prince Albert Road, London NW8 7LU, England. *Telephone:* 01-586 1461.

SCHONBERG, Harold C.; American music critic; b. 29 Nov. 1915, New York, N.Y.; s. of David and Minnie Schonberg; m. 1st Rosalyn Krokover 1942 (died 1973), 2nd Helene Cornell 1975: ed. Brooklyn Coll. and New York Univ.; Assoc. Editor American Music Lover 1938-42; Music Critic New York Sun 1946-50; Contributing Editor and Record Columnist Musical Courier 1948-52; Music and Record Critic New York Times 1950-60, Senior Music Critic 1960-; columnist for The Gramophone (London) 1948-60; Contributing Ed. Int. Encyclopaedia of Music and Musicians; U.S. Army

service 1942-46; Pulitzer Prize for Criticism 1971. *Publications:* The Guide to Long-Playing Records: Chamber and Solo Instrument Music 1955, The Collector's Chopin and Schumann 1959, The Great Pianists 1963, The Great Conductors 1967, Lives of the Great Composers 1970, Grandmasters of Chess 1973, contributing Editor International Cyclopedia of Music and Musicians. *Leisure interests:* chess, golf, poker, backgammon. *Address:* 118 Riverside Drive, New York, N.Y. 10024, U.S.A. *Telephone:* 212-873-2619.

SCHÖNBERG, Mario; Brazilian university professor; b. 2 July 1916; ed. Univ. de São Paulo and Escola Politécnica of Univ. de São Paulo; Instructor in Physics, Polytechnic, São Paulo 1936; Asst. Prof. Theoretical Physics, Univ. de São Paulo 1937; worked in Rome, Zürich, Coll. de France, Paris, Washington, D.C., Princeton Univ., and Yerkes Observatory 1938-42; returned to Brazil 1942-48, 1953-; Prof. of Pure, Celestial and Higher Mechanics, Univ. de São Paulo 1944-, Prof. of Quantum Mechanics 1944-62, Dir. Dept. of Physics 1953-61; with Free Univ. of Brussels 1948-53; mem. Brazilian Acad. of Sciences 1942. *Publications:* 80 papers on theoretical, mathematical and experimental physics and astrophysics, and pure mathematics; articles on art criticism. *Address:* Universidade de São Paulo, Caixa Postal 9105, São Paulo, SP; Rua São Vicente de Paulo 501, Apto. 105, São Paulo, SP, Brazil (Home).

SCHÖNZELER, Hans-Hubert; British (b. German) musician; b. 22 June 1925, Leipzig; m. 1962 (separated); one s.; ed. Sydney Conservatorium, Australia, Paris Conservatoire, France, Academia Chigiana, Italy, studied with Rafael Kubelik, Wilhelm Furtwängler; conductor and musicologist 1952-; conductor 20th Century Ensemble, London 1957-61; Resident Conductor, West Australian Symphony Orchestra 1967; Guest engagements in numerous European countries, Australia, Canada; now freelance; Dir. Ernst Eulenburg Ltd., London 1959-63; numerous gramophone recordings; Hon. Mem. Dvořák Soc., Prague; Hon. Prof. (Austria); Medal of Honor, Bruckner Soc. of America, Bruckner Medal Int. Bruckner Soc., Vienna. *Publications:* Bruckner 1970, Of German Music 1976, Dvořák 1979; numerous articles. *Leisure interest:* sleeping. *Address:* c/o Savage Club, 9 Fitzmaurice Place, London, W.1, England.

SCHOTMAN, Johan Wilhelm, M.D.; Netherlands psychiatrist, philosopher, poet and writer; b. 10 March 1892, Hoogeveen; s. of M. Schotman and J. W. Veltman; m. 1st Constance Kokke 1917 (deceased), 2nd Maria Yanchevskaya 1923 (divorced), 3rd Hendrika van den Wyngaard 1935; two s. three d.; ed. Leiden Univ.; practised as Physician 1919-21; Hydrographic Expedition to Lunghai Railroad, China 1921-27; Asst. Psychiatrist, Santpoort Mental Hospital 1927-28; Psychiatrist, Maasoord Mental Hospital, Poortugaal near Rotterdam 1928-37; Practice as Consultant Psychiatrist Gouda 1937-39, Bussum 1939-48; retd.; Pres. Nederlandsche Vertalingen Society 1931-41; Dir. Zwolle Historical Museum 1954-62; mem. Netherlands Soc. of Literature, PEN Club; Pres. Zwolle Branch Dickens Fellowship; Dir. Art School "Gerard Terboch". *Publications:* Poetry: Der Geesten Gemoeting 1927, Cloisonné 1936, Hellevaart 1947; Philosophy and Psychology: De schone gave 1927, Naar open water 1936, Jodulphus en de Kater 1939, De macht tot Vrijheid 1946, China Ongereed 1941; Prose: Het Vermolmde Boeddhabeeld I 1927, II 1928, III 1929, Wind in Bamboestengels 1946, Arcadië en Asfalt; Essays: Analysen en Retouches 1953; and several other works; translations of about 45 works from English, French, German, Latin and in 1969 the Sji Sjing in verse from Chinese. *Leisure interests:* gardening, carpentry. *Address:* Willemskade II, Zwolle, Netherlands. *Telephone:* 05200 141941.

SCHOU, August, M.A.; Norwegian historian; b. 19 Nov. 1903, Oslo; s. of Aage Schou and Hallfrid Hall; m. Harriet Haaland 1937; two d.; ed. Univ. of Oslo; Secretary of review Samtiden 1930-47; Teacher, Mercantile Gymnasium of Oslo 1934-44; Dir. Norwegian Nobel Inst. 1946-74; mem. Alliance Française; Knight, Legion of Honour. *Publications:* Histoire de l'Internationalisme, Vol. II 1954, Vol. III 1963, Economics—a History 1944, History of the Norwegian Posts 1947, History of the Nobel Peace Prize 1950, Aschehougf's History of the World, Vol. IV 1955. *Leisure interests:* literature, art. *Address:* c/o Norwegian Nobel Institute, 19 Drammensveien, Oslo, Norway.

SCHRAM-NIELSEN, Erik, PH.D.; Danish diplomatist; b. 6 June 1911, Copenhagen; s. of Ejnar Schram-Nielsen; m. Grethe Volkert 1939; two d.; ed. Metropolitan School, Copenhagen and Univ. of Copenhagen; entered Foreign Service 1936; studied in the Middle East 1937-38; Deputy Under-Sec. of State, Ministry of Foreign Affairs 1959-61; Perm. Rep. to NATO 1961-66; Amb. to France 1966-71, to Sweden 1971-77. *Publication:* System of Damages in Islamic Law 1945. *Leisure interests:* riding, shooting. *Address:* c/o Ministry of Foreign Affairs, Copenhagen, Denmark.

SCHRAMM, Wilbur, A.M., PH.D., LITT.D.; American educationist; b. 5 Aug. 1907, Marietta, Ohio; s. of A. A. and Louise Schramm; m. Elizabeth Donaldson 1934; one s. one d.; ed. Marietta Coll., and Harvard and Iowa Univs.; newspaper reporter and desk editor, Corresp. of Associated Press 1924-30; Asst. Prof., Assoc. Prof. and later Prof. of English, Univ. of Iowa 1935-41; Editor, Harcourt, Brace & Co. (publishers) 1941; Dir. of educational services, U.S. Office of War Information 1942-43; Educational Consultant to Navy Dept. 1943; Educational Adviser to War Department 1943-46; Dir. School of Journalism, Univ. of Iowa 1943-47; Asst. to the Pres., Dir. Inst. of Communications Research, Dir. Univ. Press, and Prof. Univ. of Ill. 1947-55, Dean, Div. of Communications 1950-55; Prof. Communications Stanford Univ. 1955-73, Dir. Inst. for Communication Research 1958-73; Janet M. Peck Prof. of Int. Communications 1962, Prof. of Educ. 1967-73; Dir. East-West Communication Inst., 1973-76; Distinguished Researcher East-West Center 1976-; Chair. U.S. Nat. Council on Research in Journalism; Fellow, Center for Advanced Study in the Behavioral Sciences 1959-60; mem. Nat. Acad. of Educ., Editorial Board Public Opinion Quarterly, Journalism Quarterly, Communication Review; Aw Boon Haw Prof. of Communication, Chinese Univ. of Hong Kong Aug. 1977-78; Howard R. Marsh Visiting Prof. of Communication, Univ. of Michigan 1978-79; Senior Fellow East-West Center 1979-. *Publications:* Approaches to a Science of English Verse 1935, American Medley (stories) 1937, Francis Parkman 1938, Literary Scholarship 1941, Windwagon Smith and Other Yarns 1947, The Lost Train 1948, The Reds Take ■ City 1951; Editor: The Story Workshop 1939, Two Creative Traditions 1940, American Literature 1946, Iowa Studies in Newspaper Reading 1946-47, Communications in Modern Society 1948, Process and Effects of Mass Communication 1954, 1971, Four Theories of The Press 1956, Responsibility in Mass Communications 1957, One day in the World's Press 1959, The Impact of Educational Television 1960, Television in the Lives of our Children 1961, The Science of Human Communication 1963, The People Look at Educational Television 1963, Mass Media and National Development 1964, Communication and Change in the Developing Countries 1966, The New Media: Memo to Educational Planners 1967, Communications in Family Planning 1971, Quality in Instructional Television 1973, Men, Messages, Media: A Look at Human Communication 1973, Handbook of Communication (with Pool) 1973, Communication and Change—the Last Ten Years 1976, Big Media, Little Media 1977. *Address:* East-West Center, 1777 East-West Road, Honolulu, Hawaii (Office); 1650 Ala Moana, Apartment 3009, Honolulu, Hawaii, 96815 (Home). *Telephone:* (808) 948-7266 (Office); (808) 946-5539 (Home).

SCHREIBER, Marc, LL.D., LIC. POL. SC.; fmr. Belgian United Nations official; b. 5 Sept. 1915; s. of Ignace and Helen Schreiber; m. Myriam E. Nassaux 1940; one s. one d.; ed. Brussels Univ.; Scientific Assoc., Inst. of Sociology Solvay, Univ. of Brussels 1938; mem. Brussels Bar 1939; Asst. Belgian Programme Organizer B.B.C., London 1940-41; Exec. Asst. to Belgian Minister of Foreign Affairs and Information 1941-43; Asst. Legal Adviser, Belgian Ministry for Foreign Affairs and Chargé de Mission 1943-45; Assoc. Chief, Legal Section and Chief, Drafting and Co-ordination Section, UN Preparatory Comm. 1945; Legal Adviser, UN Secr. 1946-48, Senior Legal Adviser 1953; Deputy Dir.-Gen. Legal Div. UN 1953-66; Dir. UN Information Centre, Paris 1960-61; Scientific Assoc. Columbia Univ. N.Y. 1965-; Dir. Div. of Human Rights, UN 1966-77, has acted ■■ legal adviser or ■■ Sec. or Rep. to the Sec.-Gen. at many UN meetings, confs. and field missions; Exec. Sec. International Conf. on Human Rights, Teheran 1968; mem. UN sub-comm. on prevention of discrimination and protection of minorities; Special adviser to Belgian Minister of Foreign Affairs. *Publications:* Belgium 1945, La pratique récente des Nations Unies dans le domaine des droits de l'homme, and contributions to various publs. *Leisure interests:* music, reading, travel. *Address:* Les Pins Noirs, 26A avenue Emile van Becelaere, 1170 Brussels, Belgium. *Telephone:* (02) 660-51-03 (Belgium).

SCHREYER, Edward Richard, B.A., B.PED., B.E.D., M.A.; Canadian politician; b. 21 Dec. 1935, Beausejour, Manitoba; s. of John J. Schreyer and Elizabeth Gottfried; m. Lilly Schulz 1960; two s. two d.; ed. Cromwell Public School, Beausejour Collegiate, United Coll., St. John's Coll. and Univ. of Manitoba; Teacher of Political Science and Int. Relations, Univ. of Manitoba; mem. for Brokenhead, Manitoba Legislature 1958, re-elected 1959, 1962; mem. Parl. for Springfield Constituency 1965-68, for Selkirk 1968; Leader, Manitoba New Democratic Party June 1969-; Premier of Manitoba, Pres. of the Council and Minister of Dominion-Provincial Relations 1969-77, Minister of Industry and Commerce July-Dec. 1969, of Finance 1975-77; Leader of the Opposition Oct. 1977-; Canadian Gov.-Gen. Dec. 1978-; mem. Canadian Assen. of Univ. Teachers,

Commonwealth Parliamentary Assn., Inter-Parliamentary Union. *Leisure interests:* reading, baseball, squash, hockey. *Address:* c/o Government House, Ottawa, Ont. K1A 0A1; 3069 Henderson Highway, East St. Paul, Winnipeg, Manitoba, Canada. *Telephone:* (204) 946-7155 (Office).

SCHRIEFFER, John Robert, MS., PH.D.; American professor of physics; b. 31 May 1931, Oak Park, Ill.; m. Anne Grete Thomson 1960; one s. two d.; ed. Mass. Inst. of Technology and Univ. of Illinois; Nat. Science Foundation Fellow, Univ. of Birmingham, U.K., and Univ. Inst. for Theoretical Physics, Copenhagen 1957-58; Asst. Prof., Univ. of Chicago 1957-60, Univ. of Illinois 1959-60; Assoc. Prof., Univ. of Ill. 1960-62; Univ. of Pennsylvania 1962-, Mary Amanda Wood Prof. of Physics 1964-; Andrew D. White Prof. Cornell Univ. 1969-75; mem. Nat. Acad. of Sciences, American Acad. Arts and Sciences, mem. American Philosophical Soc. 1974; Guggenheim Fellow 1967-68; hon. doctorates (Geneva, Technische Hochschule, Munich, Univs. of Pa., Ill. and Cincinatti 1977); Buckley Prize 1968; Comstock Prize (Nat. Acad. of Sciences) 1968; Nobel Prize in Physics (with J. Bardeen (q.v.) and L. N. Cooper) 1972; John Ericsson Medal (American Soc. of Swedish Engineers) 1976. *Address:* Department of Physics, University of Pennsylvania, Philadelphia, Pa. 19104; 1303 Club House Road, Gladwyne, Pa. 19035, U.S.A. (Home). *Telephone:* 215-594-7003 (Office); 215-LA5-8993 (Home).

SCHRODER, Dr. Gerhard; German lawyer and politician; b. 11 Sept. 1910; ed. Kaiser-Wilhelm-Gymnasium, Trier and Univs. of Königsberg, Edinburgh, Berlin and Bonn; Asst. Law Faculty Bonn Univ. and Kaiser-Wilhelm Inst. for Int. Private Law, Berlin 1933-36; practice in Berlin 1936-39; served 1939-45 war; served Land Govt. Nordrhein-Westfalen 1945-47; mem. post-war Comm. on Electoral Law; practice in Düsseldorf since 1947; concerned with reorganization of mining and iron and steel industries 1947-53; mem. (Christian Democratic Union) Federal Parl. 1949-; Minister of the Interior 1953-61, of Foreign Affairs 1961-66, of Defence 1966-69; Chair. Foreign Affairs Cttee. of Parl. Nov. 1969-. *Publication:* Decision for Europe 1964. *Address:* Pappelweg 25a, 5300 Bonn-Bad Godesberg, Federal Republic of Germany. *Telephone:* 161.

SCHRÖDER, Gerhard; German public servant; b. 3 March 1921; ed. Marburg Univ.; Officer, Radio, Film and Press Affairs, Ministry of Education, Lower Saxony 1952-59; Head of Arts Dept., Ministry of Education, Lower Saxony 1960-61; mem. Admin. Council, North German Radio 1955-61; Dir.-Gen. Norddeutscher Rundfunk (North German Radio and TV) 1961-74; Chair. ARD (Assen. of German Broadcasting Orgs.) 1970-71; Dir.-Gen. Radio Bremen 1974-. *Address:* Radio Bremen, Heinrich-Hertz-Strasse 13, 28 Bremen 33, Postfach, Federal Republic of Germany.

SCHRÖDER, Kurt, DR. PHIL.; German mathematician; b. 31 July 1909, Berlin; s. of Otto Schröder and Anna Paul; m. Ruth Hase 1937; one s. one d.; ed. Friedrich-Wilhelms Universität, Berlin; Lecturer, Berlin 1940; Prof. of Applied Mathematics and Dir. Mathematical Inst., Humboldt Universität zu Berlin 1946-72, Pro-Rector for Research 1951, Rector of Univ. 1959-65; mem. Acad. of Sciences of G.D.R. 1952-; mem. Research Council of Council of Ministers of G.D.R. 1957-; Dir. Inst. Advanced Mathematics, Inst. of Engineering, Machinery and Mechanics of the Deutsche Akademie der Wissenschaften zu Berlin 1971-72; Pres. Mathematical Soc. of G.D.R. 1962-72; Vaterländischer Verdienstorden in Gold; Nationalpreis, and other decorations. *Leisure interest:* art. *Address:* 1187 Berlin-Karrlinenhof, Rehfeldstrasse 6, Berlin, German Democratic Republic.

SCHROEDER, Hermann; German composer; b. 26 March 1904, Bernkastel/Mosel; m. Gisela Fassbinder 1940; ed. Universität Innsbruck and Musikhochschule Köln; Teacher, Rheinische Musikschule, Cologne 1930-38; Organist, Trier Cathedral 1938, Head of City Music Acad., Trier 1940-46; Teacher, Musikhochschule, Cologne 1946-48. Prof. 1948-; Lecturer, Univ. of Bonn 1946-, Univ. of Cologne 1956-61; Acting Dir. of Musikhochschule, Cologne 1958-61; Leader, Cologne Bach Soc. 1947-61; Robert Schumann Prize (City of Düsseldorf) 1952; Arts Prize (Rheinland-Pfalz Province) 1956; Order of Gregory the Great; Dr. h.c. (Univ. Bonn) 1974. *Compositions include:* organ music, operatic and orchestral music. *Address:* 5 Köln 51 (Bayenthal), Bernhardstrasse 145, Federal Republic of Germany. *Telephone:* 0221-386338.

SCHULBERG, Budd; American novelist and scriptwriter; b. 27 March 1914, New York, N.Y.; s. of Benjamin P. and Adeline (Jaffe) Schulberg; m. 1st Virginia Ray 1936 (divorced 1942), one d.; m. 2nd Victoria Anderson 1943 (divorced 1964), two s.; m. 3rd Geraldine Brooks 1964 (died 1977); ed. Deerfield Acad. and Dartmouth Coll.; short-story writer and novelist 1936-; Screenwriter for Samuel Goldwyn, David O. Selznick and Walter Wanger, Hollywood, Calif. 1936-40; Lieut. U.S. Navy 1943-46, assigned to Office of Strategic Service; taught writing courses and conducted workshops at various institutes in the U.S.; mem. Authors Guild, Dramatists Guild, American Civil Liberties Union, American Soc. Composers Authors and Publishers, Sphinx, Board of Trustees, Humanitas Prize, Advisory Cttee. on Black Participation John F. Kennedy Center for the Performing Arts; Founder Watts Writers Workshop, Frederick Douglass Creative Arts Center, New York; numerous awards for writings. *Publications:* novels: What Makes Sammy Run? 1941, The Harder They Fall 1947 (screen adaptation 1955), The Disenchanted 1950, Waterfront 1955, Sanctuary V 1969, Some Faces in the Crowd (short stories) 1953, From the Ashes: Voices of Watts (Editor and author of introduction) 1967, Loser and Still Champion: Muhammad Ali 1972, The Four Seasons of Success 1972, Swan Watch (with Geraldine Brooks) 1975; plays: Winter Carnival (with F. Scott Fitzgerald) 1939, The Pharmacist's Mate 1951, On the Waterfront 1954, A Face in the Crowd (German Film Critics Award) 1957, Wind Across the Everglades 1958, The Disenchanted 1958, What Makes Sammy Run (television play 1959, stage 1964); stories and articles in numerous anthologies; contrib. to Newsday Syndicate, Esquire, Saturday Review, Life, Harper's, Playboy, Intellectual Digest, The New Republic. *Leisure interests:* bird watching, boxing, fishing, Mexican archaeology, Black Arts movement. *Address:* c/o Ad Schulberg, 300 East 57th Street, New York, N.Y. 10022 (Office); Westhampton Beach, New York, N.Y. 11978, U.S.A.

SCHULLER, Gunther; American composer and conductor; b. 22 Nov. 1925, New York; s. of Arthur E. and Elsie (Bernatz) Schuller; m. Marjorie Black; two s.; ed. St. Thomas Choir School, New York, N.Y. and Manhattan School of Music; Soloist, French horn, Metropolitan Opera Orchestra 1945-59; Teacher, Manhattan School of Music 1950; Music Dir. First Int. Jazz Festival, Washington 1962; Pres. New England Conservatory of Music 1967-77; Artistic Dir. Summer Activities, Boston Symphony Orchestra, Tanglewood 1969, Berkshire Music Center 1972-, mem. Nat. Inst. of Arts and Letters, Nat. Endowment for the Arts, Mass. Council on the Arts and Humanities; Creative Arts Award, Brandeis Univ. 1960; Nat. Inst. Arts and Letters Award 1960; Guggenheim Grant 1962-63; ASCAP Deems Taylor Award 1970; Rogers and Hammerstein Award 1971; Hon. D.Mus. (Northeastern Univ. 1967, Colby Coll. 1969, Ill. Univ. 1970, Williams Coll. 1975). *Compositions include:* Symphony for Brass and Percussion 1950, Fantasy for Unaccompanied Cello 1951, Recitative and Rondo for Violin and Piano 1953, Dramatic Overture 1951, Music for Violin, Piano and Percussion 1957, String Quartet No. 1 1957, Woodwind Quintet 1958, Concertino for Jazz Quartet and Orchestra 1959, Seven Studies on Themes of Paul Klee 1959, Spectra 1958, Conversations 1960, Variants (ballet with choreography by Balanchine) 1961, Music for Brass Quintet 1961, String Quartet No. 2 1965, Symphony 1965, Sacred Cantata 1966, Gala Music (Concerto for Orchestra) 1966, The Visitation (opera commissioned by Hamburg State Opera) 1966, Movements for Flute and Strings, Six Renaissance Lyrics, Triplum I 1967, Shapes and Designs 1968, Fisherman and his Wife (opera) 1970, Capriccio Stravagante 1972, Tre Invenzioni 1972, Three Nocturnes 1973, Four Soundscapes 1974, Triplum II 1975, Violin Concerto 1976, Concerto for Horn and Orchestra 1976. *Publications:* Horn Technique 1962, Early Jazz, its Roots and Musical Development,, Vol. I 1968. *Address:* c/o Margun Music Inc., 167 Dudley Road, Newton Center, Mass. 02159, U.S.A. *Telephone:* 617-332-6398.

SCHULTHEISZ, Emil, M.D., PH.D.; Hungarian physician and politician; b. 1923, Budapest; ed. Univ. of Liberal Arts, Kolozsvár (now Cluj, Romania), and Medical Univs. of Debrecen and Budapest; practised in Budapest Hospitals 1950-54; qualified as specialist for internal diseases 1954; Chief of Internal Dept., Cen. State Hospital 1960, Vice-Dir., later Dir. 1970-72; Deputy Minister of Health, later First Deputy Minister and Sec. of State for Health 1972; Minister of Health 1974-; Chief Dir. Semmelweis Museum of Medical History until 1973; mem. numerous medical socs. in Hungary and abroad. *Publications:* one book and more than 100 medical articles. *Address:* Ministry of Health, V. Akadémia-utca 10, 1361 Budapest, Hungary. *Telephone:* 114-600.

SCHULTZE, Charles Louis, PH.D.; American economist and government official; b. 12 Dec. 1924, Alexandria, Va.; ed. Georgetown Univ. and Univ. of Maryland; U.S. Army 1943-46; Admin. Asst. Democratic Nat. Cttee. 1948; Research Specialist, Army Security Agency 1948-49; Instructor, Coll. of St. Thomas (St. Paul, Minn.) 1949-51; Economist, Office of Price Stabilization 1951-52, Council of Econ. Advisers 1952-53, 1955-59, Machine and Allied Products Inst. 1953-54; Assoc. Prof. of Econs., Indiana Univ. 1959-61; Prof. of Econs., Univ. of Maryland 1961-62, 1968; Asst. Dir., Bureau of the Budget 1962-65, Dir. 1965-68; Sr. Fellow, Brookings Inst., Washington 1968-; Chair. Council of Econ. Advisers to Pres.

1977-. *Publications:* Recent Inflation in the United States 1959, Prices, Costs and Output for the Postwar Decade 1959, National Income Analysis 1964. *Address:* 5826 Nevada Avenue, N.W., Washington, D.C. 20015, U.S.A. (Home).

SCHULZ, Charles Monroe; American cartoonist; b. 26 Nov. 1922, Minneapolis, Minn.; s. of Carl and Dena Schulz (née Halverson); m. Joyce Halverson 1949; two s. three d.; Cartoonist for St. Paul Pioneer Press, St. Paul, Minn., Saturday Evening Post 1948-49; created syndicated comic strip Peanuts 1950; Hon. L.H.D. (Anderson Coll., Ind.) 1963; Outstanding Cartoonist award (Nat. Cartoonist Soc.) 1956; Emmy Award (CBS children's programme A Charlie Brown Christmas 1966). *Publications:* collected cartoons published in book form: Peanuts 1952, More Peanuts 1954, Good Grief, More Peanuts 1956, Good Ol' Charlie Brown, Snoopy, You're Out of Your Mind Charlie Brown, But We Love You Charlie Brown, Peanuts Revisited, Go Fly a Kite Charlie Brown, Peanuts Every Sunday, You Can Do It Charlie Brown, Happiness is ■ Warm Puppy 1962, Love is Walking Hand in Hand 1965, A Charlie Brown Christmas 1965, You Need Help, Charlie Brown 1969, Charlie Brown's All-Stars 1966, You've Had It Charlie Brown 1969, The Snoopy Festival 1974, Its Your Turn Snoopy 1978; author and illustrator of Snoopy and the Red Baron 1966, Snoopy and His Sopwith Camel 1969, The Snoopy Come Home Movie Book 1972, The Charlie Brown Dictionary. *Address:* 2162 Coffee Lane, Sebastopol, Calif. 95472, U.S.A.

SCHULZ, Peter; German lawyer; b. 25 April 1930, Rostock; s. of Albert Schulz and Emmi Munck; m. Dr. Sonja Planeth 1955; one s. one d.; ed. Univ. of Hamburg; Practising lawyer, Hamburg 1959-; mem. Hamburg City Council 1961-, Senator for Justice 1966-71; fmr. Deputy Regional Chair. Social Democratic Party, Hamburg-North; Second Burgomaster of Hamburg and Deputy Pres. of the Senate and Dept. of Educ. 1970-71; Chief Burgomaster of Hamburg and Pres. of Senate 1971-74. *Address:* Senat der Freien und Hansestadt Hamburg, Senatskanzlei, 2 Hamburg 1, Rathaus, Federal Republic of Germany.

SCHULZE, Rudolf; German politician; b. 18 Nov. 1918, Chemnitz (now Karl-Marx-Stadt); war service 1939-45; prisoner of war in U.S.S.R. 1945-48; mem. Christlich-Demokratische Union (CDU) 1948-, CDU Presidium 1954-; mem. Volkskammer (People's Chamber), C.D.R. 1958-; Minister of Posts and Telecommunications Nov. 1963-; Deputy Chair. Council of Ministers Nov. 1971-; Vaterländischer Verdienstorden in Silver (twice) and other decorations. *Address:* Minsterrat, Berlin, German Democratic Republic.

SCHUMAN, Frederick Lewis, PH.D.; American political scientist; b. 22 Feb. 1904, Chicago, Ill.; s. of August and Ella Schulze Schuman; m. Lily Caroline Abell 1930; two s.; ed. Chicago Univ.; Instructor in Political Science, Chicago Univ. 1927-32; Fellow, Acad. Political and Social Science, Berlin 1933; Woodrow Wilson Prof. of Govt., Williams Coll. 1936-68, Prof. Emer. 1968-; Prof. of Political Science, Portland State Univ. 1968-69; Fellow, Social Science Research Council 1929-30, American Acad. Political and Social Science 1933; mem. American Political Science Assen., American Society Int. Law; Principal Political Analyst, Foreign Broadcasting Intelligence Service, Fed. Communications Comm. 1942-43; Visiting Lecturer in Int. Relations, Harvard 1938, California 1939 and 1955, Cornell 1944, Columbia 1946, Chicago 1956, Central Washington Coll. 1959, Portland State Coll. 1961, Stanford 1963, Hawaii 1963. *Publications:* American Policy toward Russia since 1917 1928, War and Diplomacy in the French Republic 1931, International Politics 1933, Conduct of German Foreign Affairs 1934, Rotary? 1934, Hitler and the Nazi Dictatorship 1935, Germany since 1918 1937, Europe on the Eve 1939, Night Over Europe 1941, Design for Power 1942, Soviet Politics 1946, The Commonwealth of Man 1952, Russia since 1917 1957, International Politics 1958, Government in the Soviet Union 1961, The Cold War: Retrospect and Prospect 1962, International Politics (7th edition) 1969. *Leisure interests:* travel, photography, swimming. *Address:* 1717 South West Park, Portland, Ore. 97201, U.S.A.

SCHUMAN, William Howard, B.S., M.A.; American musician; b. 4 Aug. 1910; ed. Columbia Univ. and privately; Lecturer and Dir. of Chorus, Sarah Lawrence Coll., Bronxville 1935-45; Dir. of Publications, G. Schirmer Inc. 1945-51; Pres. Juilliard School of Music 1945-62, Pres. Emer. 1962-; Pres. Lincoln Center for the Performing Arts 1962-69, Pres. Emer. 1969-; Chair. of Board Videorecord Corpn. 1970-; Fellow, Nat. Inst. of Arts and Letters, American Acad. of Arts and Letters; Hon. mem. Royal Acad. of Music; Guggenheim Fellowships; Honorary doctorates from Chicago Musical Coll., Univ. of Wisconsin, Philadelphia Conservatory of Music, Cincinnati Coll. of Music, Columbia Univ., Hartt Coll. of Music, Colgate Univ., Allegheny Coll., New York Univ., Brandeis Univ., Oberlin Coll., Adelphi Coll., Northwestern Univ., Bates Coll. and others; Pulitzer Prize for Music 1943; Award of Nat. Inst. of Arts and Letters, League of Composers Award, New York Critics Circle Award and Award of Merit of Nat. Assen. of American Composers and Conductors. *Compositions include:* ten symphonies, four string quartets, "Amaryllis" Variation for String Trio, American Festival Overture, Credendum, New England Triptych, Circus Overture, Concerto for Piano and Orchestra, Concerto for Violin and Orchestra, A Song of Orpheus (fantasy for 'cello and orchestra), The Witch of Endor, In Praise of Shahn, Quartettino for Four Bassoons, Variations for String Trio, The Mighty Casey (opera), secular cantatas and music for ballets, band works and piano music. *Address:* Richmond Hill Road, Greenwich, Conn. 06830, U.S.A.

SCHUMANN, Horst; German politician; b. 6 Feb. 1924; ed. elementary school; fmr. piano-maker, fmr. mem. Kommunistische Partei Deutschlands; mem. SED 1945-; District Sec. Freie Deutsche Jugend (FDJ), Leipzig 1947-48; Sec. for Pioneer Questions in Saxony FDJ 1949-50; First Sec. Saxon FDJ 1950-52; First Sec. FDJ District Headquarters 1952-55; mem. Bureau of Cen. Cttee. of FDJ 1955-, Cent. Cttee. SED 1959-; First Sec. Cen. Cttee. FDJ 1959-; mem. State Council 1960-, Volkskammer 1963-. *Address:* Unter den Linden 36-38, Berlin W.8, German Democratic Republic.

SCHUMANN, Maurice; French writer and politician; b. 10 April 1911; m. Lucie Daniel 1944; three d.; with Havas News Agency 1932-40; Chief Official Broadcaster, B.B.C. French Service 1940-44; Liaison Officer with Allied Expeditionary Forces from D-Day until liberation of Paris; mem. of French Provisional Consultative Assembly Nov. 1944-July 1945; mem. of both Constituent Assemblies Oct. 1945-May 1946 and June-Nov. 1946; Chair Mouvement Républicain Populaire (MRP) 1945-49; Deputy for Nord 1945-73; Sec. of State for Foreign Affairs 1951-54; Pres. Foreign Affairs Comm. of Nat. Assembly 1959; Minister of State attached to the Prime Minister's Office (Territorial Planning) April-May 1962; Minister of State for Scientific Research 1967-68; Minister of Social Affairs 1968-69, of Foreign Affairs 1969-73; Senator, Département du Nord 1974-; Deputy-speaker (Vice-Pres.) du Sénat 1977, chief contrib. to L'Aube; mem. Acad. Française 1974; Hon. LL.D. (Cantab.) 1972; Grand Prix Catholique de Litterature (for Angoise et certitude) 1978; Compagnon de la Libération; Chevalier Légion d'honneur, Order of Léopold; Croix de guerre. *Publications:* Le germanisme en marche 1938, Mussolini 1939, Les problèmes ukrainiens et la paix européenne 1939, Honneur et patrie 1946, Le vrai malaise des intellectuels de gauche 1957, Le rendezvous avec quelqu'un (novel) 1961, La voix du couvre-feu (novel) 1964, Les flots roulant au loin (novel) 1973, La communication (novel) 1974, La mort née de leur propre vie: essai sur Péguy, Simone Weil et Gandhi 1974, Angoisse et certitude 1978. *Address:* 53 avenue Maréchal-Lyautey, 75016 Paris, France.

SCHÜRER, Gerhard; German politician; b. 14 April 1921, Zwickau; fmr. machine fitter; mem. SED 1948-; Dept. Head for Planning, Dept. of Planning and Finance, Central Cttee. of SED 1951; Student at CPSU Party Univ. 1955-58: Head of Dept. of Planning and Finance, SED Cen. Cttee 1960-62; Deputy Chair. G.D.R. State Planning Comm. 1962-63, First Deputy Chair. 1963-65, Chair. 1965-; mem. Council of Ministers 1965, Deputy Chair. 1967-; mem. Cen. Cttee. of SED 1963; Vaterländische Verdienstorden in Silver and Gold and other decorations. *Address:* State Planning Commission, Berlin, German Democratic Republic.

SCHÜRMANN, Leo, D.IUR.; Swiss jurist and banker; b. 1917, Olten; m. Cécile Baur 1943; one s. one d.; ed. Univ. of Basel; Advocate and Notary, Clerk of Court and Legal Sec., canton of Soleure 1940; engaged in banking 1947; own law office 1949; Chief Justice, canton of Soleure 1953-74; Habilitation at Fribourg Univ. 1956, Extraordinary Prof. 1964-; Chair. Swiss Cartel Comm., also of various Fed. and Cantonal Cttees. of Experts 1964-74; Cantonal Councillor 1957-69; Nat. Councillor 1959-74; mem. Board of Gen. Mans. Swiss Nat. Bank July 1974- (Vice-Chair. 1976), Head Second Dept., Berne 1976. *Publications:* Textbook on the Economic Articles of the Federal Constitution, Handbook of Economic Administrative Law 1978. Author of bills, inter alia on the laws on town and country planning and on housing devt., of the Fed. Decree on measures against abuses in the rental system, of an executive order related to the environmental protection article, of a new press article in the Fed. Constitution and a press-promoting law, of the Fed. law on investment assistance to mountain areas, of the law enacted by the canton of Soleure on admin. judicature, of the law on disaster provisions and of communal decrees 1964-74. *Address:* Banque Nationale Suisse, 3003 Berne, Switzerland. *Telephone:* (031) 61-79-45.

SCHUSTER, Günter, D.SC.; German scientist; b. 17 Dec. 1918, Bonn; ed. Univs. of Göttingen and Bonn; Asst. Bonn Univ. 1948-

50, Scientific Asst. Inst. of Applied Physics 1950-55, Head of Physical Studies 1956-65; Adviser, Ministry of Scientific Research 1965-67; Dir. Nuclear Research and Technique Div., Ministry of Education and Science 1968-71; Deputy Dir.-Gen. of Industrial, Technological and Scientific Affairs Comm. of the European Communities 1971-73, Dir.-Gen. of Research, Science and Educ. 1973-. *Address:* Directorate-General of Research, Science and Education, Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium. *Telephone:* 735-00-40.

SCHUT, Willem Fredrik; Netherlands civil engineer and politician; b. 21 Aug. 1920, Amsterdam; m. G. E. Boot 1945; two s. six d.; ed. Secondary School, Amsterdam and Technological Inst., Delft; Planner, Inst. of Town and Country Planning, South Holland 1943, Deputy Dir. 1945-46, Dir. 1946-67: Private Planning Consultant, Middelburg 1956-67; Minister of Housing and Physical Planning 1967-71; Dir. Town and Country Planning 1971-; mem. Scientific Council for Govt. Policy 1972-78; Bronze Cross 1946; Grand Cross in Order of Merit of Luxembourg 1967; Grand Cross Order of the Crown of Belgium 1969; Knight, Order of Lion of the Netherlands 1971. *Address:* Town and Country, Delftsestraat 15B, Rotterdam; Mr. P. D. Kleylaan I, Nieuwerkerk aan den Ijssel, Netherlands (Home). *Telephone:* 146922 (Office); 01803-4734 (Home).

SCHÜTTENHELM, Emile A.; Netherlands fmr. broadcasting executive; b. 23 Nov. 1909, The Hague; s. of Abraham Schüttenhelm and Helena van Went; m. Nora Consolación; two s. one d.; ed. Delft Technical Coll. and Utrecht Univ.; Lieut. Mil. Police 1937-40; Asst. Inspector for Social Welfare 1940-45; Dir. Roman Catholic Youth Movement 1945-48; Deputy Dir. for Youth and Adult Educ., Ministry for Educ. and Sciences 1948-55, Dir. Dept. for Youth and Adult Educ. and Social Pedagogic Training 1955-59; Pres., Netherlands Television Foundation (N.T.S.) 1959-69, Netherlands Broadcasting Foundation (N.O.S.) 1969-75; Chair. Assen. for Broadcasting in Hospitals and Homes for the Aged, Netherlands Broadcasting Foundation 1975-, Liturgical Ecumenical Centre, Soc. for the Queen Wilhelmina Cancer Research Fund, Dutch Camping Council, Foundation of the Green Heart of Amsterdam, Assen. of Museums, Brabant 1970-77, Royal Dutch Land Devt. Soc. Amsterdam Foundation for Information on Part-Time Work; Vice-Pres. Foundation for Civic Educ. Dir. Escon B.V. (Netherlands), Eurocomp p.v.b.a. (Belgium); mem. Belgium-Netherlands Tech. Comm. Cultural Agreement; Knight, Order of the Lion of the Netherlands, Officer, Order of Orange-Nassau, Knight, Order of St. Gregory the Great, Commdr. de la Couronne (Belgium). *Leisure interests:* sailing, golf, camping. *Address:* Koningslaan 12, 1405 GL Bussum, Netherlands. *Telephone:* 02159-45310.

SCHÜTZ, Klaus; German politician and diplomatist; b. 17 Sept. 1926; m. Heide Schütz; ed. Paulsen-Real-Gymnasium, Humboldt Univ. zu Berlin and Harvard Univ., U.S.A.; war service, seriously wounded 1944-45; Asst., Inst. für Politische Wissenschaften, Freie Univ., Berlin 1951; mem. City Assembly 1954-57; mem. Bundestag 1957-61; Liaison Senator between Berlin Senate and Bonn Govt. 1961-66; mem. Bundesrat 1961-77, Pres. 1967-68; Under-Sec. Ministry of Foreign Affairs 1966-67: Governing Mayor of West Berlin 1967-77; Chair. Berlin Social Democratic Party 1968-77; Amb. to Israel Aug. 1977-. *Address:* Embassy of the Federal Republic of Germany, 16 Soutine Street, Tel-Aviv, Israel.

SCHÜTZ, Paul, DR. RER. POL.; German banker; b. 27 June 1910, Tholey, Saar; s. of Nikolaus Schütz and Barbara Schütz (née Simon); m. Christiane Waelder 1947; ed. Univs. of Würzburg, Berlin and Freiburg im Breisgau; industrial posts 1936-46; Chair. Man. Board of ■ credit house 1947-61; Pres. of Saarland Assen. of Savings and Deposit Banks 1955-61; Pres. of Landeszentralbank im Saarland 1961-; mem. of Board of Deutsche Bundesbank, Frankfurt. *Address:* Willi-Graf-Strasse 30, 66 Saarbrücken 3, Federal Republic of Germany.

SCHUURMANS, Constant, LL.D., PH.D.; Belgian diplomatist; b. 8 Dec. 1914, Achel; s. of Antoine and Clemence Meyers; Foreign Service 1946-; Second Sec., later First Sec., Paris 1948-52; Sec. to Sec.-Gen. of Ministry of Foreign Affairs 1952-58; Chef de Cabinet, Ministry of Foreign Affairs 1958-61; Amb. to Greece 1962-65; Perm. Rep. to UN 1965-70; Amb. to Fed. Repub. of Germany 1970-76; Amb. and Perm. Rep. to NATO Council March 1976-. *Address:* Leeuwerikendreef, 20, 1900 Overijse, Belgium (Home). *Telephone:* (02) 657-11-85 (Home).

SCHWABE, Kurt, DR. ING. HABIL.; German engineer; b. 29 May 1905, Reichenbach, Saxony; Teacher, Technische Hochschule Dresden 1933, Prof. of Physical and Electrical Chemistry 1949-70, Rector (now Technische Universität Dresden) 1961-65; mem. Acad. of Sciences of G.D.R., E. Berlin, Saxon Acad. of Sciences, Leipzig (Pres. 1965-); Nat. Prize (First Class), Order of Banner of Labour, Hero of Labour; Dr. rer. nat. h.c. (Karl-Marx-Stadt, Merseburg and Dresden). *Address:* Sächsische Akademie der Wissenschaften zu Leipzig, 701 Leipzig, Goethestrasse 3-5; Meinsberg 70, Post DDR-7305 Waldheim, German Democratic Republic. *Telephone:* Waldheim 667.

SCHWALB LÓPEZ ALDAÑA, Fernando; Peruvian politician; b. 26 Aug. 1916, Lima; m.; three c.; ed. Pontifica Univ. Católica del Perú; entered Ministry of Foreign Affairs 1933; entered diplomatic service 1939; Second Sec., Washington, D.C. 1944-45, First Sec. 1945-48, Minister Counsellor 1948; private law practice 1949-50, 1950-53, 1968-69; Alt. Exec. Dir. IBRD 1950; Senator from Lima 1962 (prevented from taking office by coup d'état); Minister of Foreign Affairs 1963-65; Chair. Council of Ministers 1963-65; Chair. Peruvian Del. to Gen. Ass. of UN 1963; Pres. Banco Central de Reserva del Perú 1966-68; Rep. of Pres. to Bogotá Meeting of Presidents 1966; Banco de la República, Bogotá 1969; Consultant, Cen. Banking Service, IMF 1969-; mem. Partido Acción Popular. *Address:* Jirón Carabaya 940, Of. 201, Lima, Perú. *Telephone:* 281020.

SCHWARZ, Rudolf, C.B.E.; British conductor; b. 29 April 1905, Vienna, Austria; s. of Josef Schwarz and Bertha Roth; m. Greta Ohlson 1950; two s. one d.; ed. in Vienna; Conductor, Opera House, Düsseldorf 1923-27, Opera House, Karlsruhe 1927-33; worked for Jewish Cultural Organisation in Berlin 1936-41; Conductor, Bournemouth Municipal Orchestra 1947-51, City of Birmingham Symphony Orchestra 1951-57; Conductor-in-Chief B.B.C. Symphony Orchestra 1957-62; Conductor Northern Sinfonia Orchestra, Newcastle upon Tyne 1964-73; Principal Guest Conductor Bournemouth Symphony Orchestra and Northern Sinfonia Orchestra; Hon. D.Mus. (Univ. Newcastle upon Tyne). *Address:* 24 Wildcroft Manor, London, S.W.15, England.

SCHWARZ, Štefan, DR.SC.; Czechoslovak mathematician; b. 18 May 1914, Nové Město nad Váhom; ed. Universita Karlova, Prague; Asst. Charles Univ., Prague 1937; Docent, Univ. of Bratislava 1945; Professor, Technical Univ., Bratislava 1947-; mem. Czechoslovak Acad. of Sciences 1960-, Vice-Pres. 1965-70; mem. Slovak Acad. of Sciences 1953-, Vice-Pres. 1958-65, Pres. 1965-70, mem. Presidium 1972-; Dir. Mathematical Inst. 1963-; mem. Cen. Cttee. of C.P. of Czechoslovakia 1966-71, and of Slovakia 1966-68; Dir. Mathematical Inst. of Slovak Acad. of Sciences 1974-, mem. Presidium, Slovak Acad. of Sciences 1974-; State Prize 1955; Order of Labour 1964; Hon. Gold Plaque of Czechoslovak Acad. of Sciences for Services to Science and Mankind 1969; Gold Medal, Slovak Acad. of Sciences 1974. *Publications:* Three books and about 75 papers, mostly on algebra and number theory, in particular on theory of semi-groups. *Address:* Porubského 10, Bratislava, Czechoslovakia.

SCHWARZKOPF, Elisabeth; German singer; b. 9 Dec. 1915, Janotchin; d. of Friedrich and Elisabeth (née Fröhlich) Schwarzkopf; m. Walter Legge (died 1979); ed. Berlin Conservatoire and in England; debut in Parsifal 1938; Zerbinetta in Ariadne auf Naxos 1941; sang at inauguration of post-war Bayreuth Festival; since 1947 principal soprano at Vienna State Opera, La Scala Milan, Covent Garden, San Francisco; Metropolitan Opera, New York 1964-66; guest singer, Salzburg Festival 1947-64;, created Anne Trulove in Stravinsky's Rake's Progress; principal roles include Contessa, Le nozze di Figaro, Marschallin, Rosenkavalier, Fiordiligi, Cosí fan Tutte, Eva, Meistersinger, Donna Elvira, Don Giovanni, Gräfin, Capriccio, etc.; in recent years has concentrated on recitals of German songs; Hon. D.Mus. (Cambridge) 1976. *Leisure interests:* tennis, mountain walking. *Address:* c/o Musical Adviser Establishment, Vaduz, Liechtenstein.

SCHWARZSCHILD, Martin, PH.D.; American professor of astronomy; b. 31 May 1912, Potsdam, Germany; s. of Karl Schwarzschild and Else (Rosenbach) Schwarzschild; m. Barbara Cherry 1945; ed. Gymnasium and Univ. of Göttingen; Research Fellow, Univ. of Oslo, Norway 1936-37, Harvard Univ. 1937-40; Lecturer, Asst. Prof., Columbia Univ. 1940-47; Prof., Princeton Univ. 1947-50, Higgins Prof. Astronomy 1950-; Vice-Pres. Int. Astronomical Union 1964-70, American Astronomical Soc. 1967-69, Pres. 1970-72; Fellow, American Acad. of Arts and Sciences; mem. Akad. der Naturforscher Leopoldina, Nat. Acad. of Sciences, Norwegian Acad. of Science and Letters; Life mem. Astronomical Soc. of the Pacific, Royal Astronomical Soc. of Canada; Foreign mem. Royal Netherlands Acad. of Sciences and Letters, Royal Danish Acad. of Sciences and Letters; Corresp. mem. Soc. Royale des Sciences de Liège; Assoc. Royal Astronomical Soc.; Hon. D.Sc. (Swarthmore Coll.) 1960, (Columbia Univ.) 1973; Draper Medal, Nat. Acad. of Sciences, Eddington Medal and Gold Medal, Royal Astronomical Soc., Bruce Medal, Astronomical Soc. of the Pacific,

Albert A. Michelson Award, Case Western Reserve Univ., Dannie Heinemann Prize, Akad. der Wissenschaften zu Göttingen, Rittenhouse Silver Medal, Rittenhouse Astronomical Soc., Prix Janssen, Soc. Astronomique de France. *Publications:* Structure and Evolution of the Stars; numerous articles on research on internal constitution and evolution of stars, and on astronomical observations with telescopes carried by balloons into stratosphere. *Leisure interests:* collecting minerals and fossils, bird-photography. *Address:* Princeton University Observatory, Peyton Hall, Princeton, N.J. 08540; 12 Ober Road, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 609-452-3802 (Office); 609-924-4369 (Home).

SCHWEDHELM, Karl; German writer and broadcasting official; b. 14 Aug. 1915, Berlin; s. of Adolf and Charlotte Schwedhelm; m. Hildegard Bühler 1941; one s. one d.; ed. Universität Berlin; Former librarian; with Süddeutscher Rundfunk 1947-, now Dir. of Dept. of Literature; mem. PEN, Acad. of Sciences and Literature, Mainz. *Publications:* Dichtungen der Marceline Desbordes-Valmore 1947, Fährte der Fische 1955, E. Glissant: Carthago 1959, Nelly Sachs 1968, Propheten des Nationalismus 1969, Hagia Sophia (Coll. "Lynkeus") 1973. *Leisure interests:* archaeology, speleology. *Address:* 7176 Braunsbach-Steinkirchen, Im Bonich 74, Federal Republic of Germany. *Telephone:* 07906-8284.

SCHWEIKER, Richard Schultz; American politician; b. 1 June 1926, Norristown, Pa.; s. of Malcolm A. Schweiker and Blanche Schultz; m. Claire Joan Coleman 1955; two s. three d.; ed. Pennsylvania State Univ.; Business exec. 1950-60; mem. U.S. House of Reps. 1960-68; U.S. Senator from Pennsylvania 1969-; Republican. *Address:* U.S. Senate, Washington, D.C. 20510, U.S.A. *Telephone:* 202-224-4254.

SCHWEIKHER, Paul, B.F.A., M.A.; American architect; b. 28 July 1903, Denver, Colo.; s. of Frederick Schweikher and Elizabeth Ann Williams; m. Dorothy Mueller 1923; one s.; ed. Colorado and Yale Univs.; private architectural practice 1933-; co-founder, Chicago Workshops 1933-35; Lieut. Commdr. in U.S. Naval Reserve 1941-45; Partner, Schweikher and Elting 1945-53; Visiting Critic in Architecture, Yale Univ. 1947-51, Prof. of Architecture, Chair. Dept. of Architecture 1953-56; Prof. Head, Dept. of Architecture, Carnegie Mellon Univ. 1956-69, Prof. Emer. 1969-; lecturer, panellist and juror at many educ. and professional insts. 1946-; mem. Fulbright Fellowships in Architecture selection cttee. 1953-55, interviewing cttee. for American Acad. in Rome fellowships 1955; Adviser, Memphis (Tenn.) Arts Center Competition 1956; Consultant on master planning, Yale Univ. 1953-56, Maryville Coll., Tenn. 1954-58; Buffalo Univ. 1955-57; mem. Arts Club of Chicago (Board of Dirs. 1939-56), Pittsburgh Planning Comm. 1961-63; mem. Advisory Council, Princeton Univ. School of Architecture 1960-70; Adviser, Allegheny Square Competition, Pittsburgh 1964; Visiting Prof. Princeton 1960-61; Ford Foundation research grant for theatre design 1960-61; life mem. Chicago Art Inst. 1946; Fellow, Silliman Coll., Yale 1954-55; architectural work at exhbns. New York Museum of Modern Art and several other museums and insts. 1933-; Distinguished Citizen Award, Denver 1958, Architect of the Year, Pittsburgh 1966, Artist of the Year, Pittsburgh 1968, and other awards. *Leisure interests:* painting, sculpture, travel. *Address:* P.O. Box 1408, Sedona, Arizona 86336, U.S.A. *Telephone:* 602-282-3722.

SCHWEITZER, Pierre-Paul; French banker; b. 29 May 1912, Strasbourg; s. of Paul and Emma (Munch) Schweitzer; m. Catherine Hatt 1941; one s. one d.; ed. Univs. of Strasbourg and Paris; Official, French Treasury 1936-47; Alt. Exec. Dir. for France, IMF 1947-48; Sec.-Gen. Interministerial Comm. European Econ. Co-operation 1948-49; Financial Attaché, French Embassy, Washington, D.C. 1949-53; Dir. of Treasury, Ministry of Finance 1953-60; Deputy Gov. Bank of France 1960-63; Man. Dir., Chair. Exec. Board IMF 1963-73; Inspecteur général honoraire des finances; Chair. Bank of America Int., Luxembourg 1974-77, Banque Petrofigaz, Paris, Cie. de Participations et d'Investissements Holding, Luxembourg, Compagnie Monegasque de Banque de Monaco 1978-; Advisory Dir. Unilever N.V., Rotterdam 1974; Dir. Robeco Group, Rotterdam 1974; Hon. LL.D. (Yale) 1966, (Harvard) 1966, (Leeds) 1968, (New York) 1968, (George Washington Univ.) 1972, (Univ. of Wales) 1972, (Williams Univ.) 1973; Grand Officier Légion d'honneur, Croix de guerre, Médaille de la Résistance. *Address:* 19 rue de Valois, 75001 Paris, France. *Telephone:* 261-48-85.

SCHWINGER, Julian Seymour, PH.D.; American physicist; b. 12 Feb. 1918; ed. Columbia Univ.; Nat. Research Council Fellow 1939-40; Research Assoc. Univ. of Calif. (Berkeley) 1940-41; Instructor, later Asst. Prof. Purdue Univ. 1941-43; staff mem. Radiation Lab., M.I.T. 1943-46; mem. staff Metallurgy Lab., Univ. of Chicago 1943; Assoc. Prof. Harvard Univ. 1945-47, Prof. 1947-72, Higgins Prof. 1966-72; Prof. of Physics, Univ. of Calif. 1972-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, A.A.A.S., New York Acad. Sciences, American Physical Soc., Civil Liberties Union; Editor Quantum Electrodynamics 1958; Nobel Prize for Physics (with R. Feynman and S. Tomonaga) 1965, and other awards. *Publications:* Discontinuities in Wave Guides 1968, Particles, Sources and Fields 1970, Vol. II 1973, Quantum Kinematics and Dynamics 1970. *Address:* Department of Physics, University of California at Los Angeles, Calif. 90024, U.S.A.

SCHWYZER, Robert, DR. PHIL.; Swiss molecular biologist; b. 8 Dec. 1920, Zürich; s. of Robert Schwyzer and Rose Schätzle; m. Rose Nägeli 1948; two s. one d.; ed. primary school, Nathan Hale, Minneapolis, U.S.A., Canton High School (A), Zürich, and Dept. of Chemistry, Univ. of Zürich; Privatdozent, Univ. of Zürich 1951-59, Asst. Prof. 1960-63; initiation of Polypeptide Research, Head of Polypeptide Research Group, Ciba Ltd., Basle 1952-63, Asst. Man. 1960-63; Prof. and Head of (new) Dept. of Molecular Biology, Swiss Fed. Inst. of Technology, Zürich 1963-; Werner Award, Swiss Chemical Soc. 1957; Ruzicka Prize, Swiss Fed. Inst. of Technology 1959; Otto Nägeli Award, Switzerland 1964; Vernon Stouffer Award, American Heart Assn., Cleveland 1968. *Publications:* Scientific papers on syntheses of biologically active polypeptides; structure activity relationships in this field; structure-conformation-activity relationships; structure-receptor relationships. *Leisure interests:* mountain climbing, skiing, literature. *Address:* Institut für Molekularbiologie und Biophysik, Eidgenössische Technische Hochschule, 8093 Zürich; 8180 Bülach, Switzerland (Home). *Telephone:* 01-575770; 01-807111 (Home).

SCIASCIA, Leonardo; Italian writer; b. 8 Jan. 1921; ed. Istituto Magistrale Caltanissetta; has won many prizes including Premio Crotone, Premio Libera Stampa Lugano, and Premio Prato. *Publications:* Le parrocchie di Regalpetra 1956, Gli zii di Sicilia 1958, Il giorno della civetta 1961 (Mafia Vendetta 1963), Pirandello e la Sicilia 1961, Il consiglio d'Egitto 1963, A ciascuno li suo 1963, Morte dell'inquisitore 1964, Feste religiose in Sicilia 1965, Recitazione della controversia liparitana 1969, Il contesto 1971, Il mare colore del vino 1973. *Address:* Via Redentore 131, Caltanissetta, Italy.

SCOFIELD, Paul, C.B.E.; British actor; b. 21 Jan. 1922; m. Joy Parker; one s. one d.; trained London Mask Theatre Drama School; Birmingham Repertory Theatre 1941 and 1943-46; Stratford-on-Avon Shakespeare Memorial Theatre 1946-48; Arts Theatre 1946; Phoenix Theatre 1947; with H. M. Tennent 1949-56; Assoc. Dir. Nat. Theatre 1970-71; Hon. LL.D. (Glasgow Univ.), Hon. D.Lit. (Kent Univ.) 1973; Shakespeare Prize, Hamburg 1972; Danish Film Acad. Award; Tony Award. *Has appeared in:* Chekhov's Seagull, Anouilh's Ring Round the Moon, Charles Morgan's The River Line; Richard II, Time Remembered, A Question of Fact, Hamlet (also in Moscow), Power and the Glory, Family Reunion, A Dead Secret, Expresso Bongo, The Complaisant Lover, A Man for all Seasons, Stratford Festival, Ont., Canada 1961, Coriolanus, Don Armado New York 1961-62, A Man for All Seasons London 1962-63, King Lear 1963 (E. Europe, Helsinki, Moscow, New York 1964), Timon of Athens 1965, The Government Inspector London 1966, Staircase 1967, Macbeth 1968, The Hotel in Amsterdam 1968, Uncle Vanya 1970, The Captain of Köpenik 1971, Rules of the Game 1971, Savages 1973, The Tempest 1974, 1975, Dimetos 1976, Volpone 1977, The Madras House 1977, The Family 1978; Films: The Train 1963, A Man for All Seasons 1967 (Oscar and New York Film Critics Award, Moscow Film Festival and British Film Acad. Awards), King Lear 1970, Scorpio 1972, A Delicate Balance 1972; Television: The Ambassadors 1977. *Address:* The Gables, Balcombe, Sussex, England.

SCOTT, Sir Bernard Francis William, Kt., C.B.E., T.D., F.I.MECH.E., F.B.I.M., F.R.S.A.; British business executive; b. 19 Nov. 1914, Kings Norton; s. of Francis William Robert Scott and Agnes Edith Kett; m. Charlotte Kathleen Laidlow 1942; one s. two d.; ed. Bishop Vesey's Grammar School, Epsom Coll.; joined Joseph Lucas Ltd. 1931; Personal Asst. to Oliver Lucas 1936; army service in World War II, mentioned in despatches 1944; Sales Dir. Joseph Lucas (Electrical) Ltd. 1947; Vice-Chair., Gen. Man. CAV Ltd. 1959; Dir. Joseph Lucas (Industries) Ltd. 1968, Chair. Lucas Industries Ltd. 1974-, Lucas Aerospace Holdings 1977-; Chair. European Components Service, British Nat. Export Council 1966-71; Exec. Cttee., Council, Soc. of Motor Mfrs. & Traders 1971-, British Overseas Trade Board 1973-; mem. Council Confed. of British Industry 1974; Dir. Lloyds Bank 1975-, Lloyds Bank Int. 1978-; Boots Co. Ltd. 1976-; Pres. Motor Ind. Research Assn. 1975-77; Vice-Pres. Eng. Employers' Fed., Assn. of British Chambers of Commerce, Nat. Assn. of Boys' Clubs, Int. of Motor Industry, SMM&T; mem. British Overseas Trade Board, Nat. Defence Industries Council, Eng. Industries Council. *Leisure interests:* sailing,

gardening. *Address:* Lucas Industries Ltd., Lucas House, 46 Park Street, London, W1Y 4DJ; and Burchetts Green House, Burchetts Green, Berks., England.

SCOTT, Sir David Aubrey, G.C.M.G.; British diplomatist (retd.), company director; b. 3 Aug. 1919, London; s. of the late H. S. and of Barbara E. Scott, J.P.; m. Vera Kathleen Ibbitson 1941; two s. one d.; ed. Charterhouse and Birmingham Univ.; Royal Artillery 1939-47; Chief Radar Adviser, British Mil. Mission to Egyptian Army 1945-47; Commonwealth Relations Office 1948-50, South Africa 1951-53; Cabinet Office 1954-56; Singapore 1956-58; British Deputy High Commr. in Fed. of Rhodesia and Nyasaland 1961-63; Imperial Defence Coll. 1964; Deputy High Commr. in India 1965-67; High Commr. in Uganda 1967-70; Amb. to Rwanda (non-resident) 1967-70; Asst. Under-Sec. of State, Foreign and Commonwealth Office 1970-72; High Commr. New Zealand and Gov. of Pitcairn Island 1973-75; Amb. to South Africa 1976-79. *Leisure interests:* bird-watching, music, theatre. *Address:* 23 Petersham Mews, London, S.W.7, England. *Telephone:* 01-589 0424 (London).

SCOTT, Rev. Edward Walter, B.A., L.TH.; Canadian ecclesiastic; b. 30 April 1919, Edmonton, Alberta; s. of Thomas and Kathleen Scott; m. Isabel Florence Brannan 1942; one s. three d.; ed. Univ. of British Columbia, Anglican Theological Coll., British Columbia; ordained in Anglican Church 1942; Parish Priest in Seal Cove, Prince Rupert, B.C. 1942-45; Gen. Sec. Student Christian Movement, Univ. of Manitoba 1945-50; Rector, Church of St. John the Baptist, Fort Garry 1949-55, St. Jude's Church, Winnipeg 1955-60; Dir. of Social Service and Priest in charge of Indian Work, Diocese of Rupert's Land 1960-64; Assoc. Sec., Council for Social Service (now called Social Action), Nat. Office of Anglican Church 1964-66; Bishop of Kootenay 1966-; Primate of Anglican Church of Canada 1971-; Moderator, Exec. and Cen. Cttees. of WCC 1975-. *Leisure interest:* carpentry. *Address:* 600 Jarvis Street, Toronto, Ont., M4Y 2J6 (Office); 29 Hawthorn Avenue, Toronto, Ont., M4W 2Z1, Canada (Home). *Telephone:* (416) 924-9192 (Office); (416) 920-1975 (Home).

SCOTT, George C(ampbell); American actor, producer and director; b. 18 Oct. 1927, Wise, Va.; s. of George C. Scott and late Helena Scott; ed. Redford High School and Univ. of Missouri; appeared in Richard III, New York Shakespeare Festival 1957; subsequent theatrical appearances included As You Like It, Children of Darkness 1957-58; Broadway appearances in Comes a Day 1958, The Andersonville Trial 1959, The Wall 1960; co-founder Theater of Mich. Company 1961; produced, directed and appeared in General Seeger 1962 and produced Great Day in the Morning 1962; Dir. Death of a Salesman, N.Y. 1975, All God's Chillun Got Wings 1975. *Films include:* The Hanging Tree 1958, Anatomy of a Murder 1959, The Hustler 1962, Dr. Strangelove 1963, The List of Adrian Messenger 1963, The Yellow Rolls-Royce 1964, The Bible 1966, The Flim-Flam Man 1967, Petulia 1969, Patton: Lust for Glory 1970, Jane Eyre 1971, They Might be Giants 1971, The Hospital 1972, Precinct 1945, Oklahoma Crude, Rage (also dir.), Day of the Dolphin 1973, Bank Shot (also dir.), The Savage is Loose (also dir.), The Hindenberg, Sly Fox 1976, The Prince and The Pauper 1976, Islands in the Stream 1977, Movie Movie 1978, Hard Core 1979; refused Acad. Award (Oscar) for Patton: Lust for Glory 1971. TV series: East Side, West Side 1963-64. *Address:* Jane Deacy Agency, 119 East 54th Street, New York, N.Y. 10022, U.S.A.

SCOTT, Rev. G(uthrie) Michael; British ecclesiastic; b. 30 July 1907, Lowfield Heath, Sussex; s. of Rev. Perceval Caleb Scott and Ethel Maud Burn; ed. King's Coll., Taunton, St. Paul's Coll., Grahamstown, South Africa, and Chichester Theological Coll.; Curate of Slaugham 1930-32, St. Stephen's, Kensington 1932-34; Domestic Chaplain to Bishop of Bombay 1935-37; Chaplain to St. Paul's Cathedral, Calcutta 1937-38, Kasauli 1938-39; Curate to St. Alban's Coloured Mission, Johannesburg 1943-46; Rep. of Herero, Berg, Damara and Nama Tribes of South-West Africa at UN 1948; prohibited from South Africa 1950; Hon. Dir. Africa Bureau, London 1952-68; mem. Nagaland Peace Mission 1964-66, expelled by India 1966; special licence to officiate in the Diocese of Chichester 1949-; Hon. D.S.T., Gen. Theological Seminary, U.S.A. 1972; Hon. Canon, St. George's Cathedral, Windhoek, Namibia 1975-. *Publications:* Shadow over Africa 1950, Attitude to Africa 1951, The Orphans' Heritage 1958, A Time to Speak 1958, The Nagas: India's Problem or the World's. *Leisure interests:* walking, reading, listening, swimming. *Address:* c/o Lloyd's Bank, 6 Pall Mall, London, S.W.1, England. *Telephone:* 01-722 5787.

SCOTT, Hugh, A.B., LL.B.; American lawyer and politician; b. 11 Nov. 1900, Fredericksburg Va.; s. of Hugh and Jennie Lee Lewis Scott; m. Marian Huntington Chase 1924; one d.; ed. Pennsylvania Univ., Randolph-Macon Coll. and Virginia Univ.; Asst. District Attorney, Philadelphia 1926-41; mem. U.S. House of Reps. (6th Pa. District) 1940-42, 1944-58; served in U.S. Merchant Marine and Navy (Commdr.) in World War II and in Navy in Korean War; fmr. Gen. Counsel, Republican Nat. Cttee.; Nat. Chair., Republican Nat. Cttee. 1948-49; Chair. of Regional Organization, Eisenhower campaign and on personal staff, Chair. Eisenhower Headquarters Cttee. 1952; U.S. Senator from Pennsylvania 1958-77; mem. Judiciary, Foreign Relations and Rules Cttees.; Republican Minority Leader in Senate 1969-77; Presidential delegate at numerous international confs.; Vice-Chair. U.S. Del. to Interparl. Union; Counsel to firm of Obermayer, Rebmann, Maxwell and Hippel, Philadelphia; mem. Philadelphia and American Bar Asscns., Pennsylvania Bar Assn. (fmr. Chair. Criminal Law Cttee.), American Soc. of Int. Law, Comm. on Critical Choices for America, Philadelphia Museum of Art Oriental Art Cttee., Museum of Commonwealth of Virginia, Freer Gallery of Art; 30 hon. degrees from American univs. and colls.; Commdr. Royal Order of Phoenix; Grand Cross, Order of El Quetzal, Order of Service Merit; Gold Medal, Pa. Soc. 1973; Republican. *Publications:* Scott on Bailments 1931, How to Go into Politics 1949, Politics, U.S.A. (co-author) 1960, The Golden Age of Chinese Art 1967, Come to the Party 1968, How to Run for Public Office and Win 1968. *Leisure interests:* collecting Chinese art, travel. *Address:* Senate Office Building, Washington, D.C. 20510; 3014 Woodland Drive, N.W., Washington D.C. 20008, U.S.A. *Telephone:* 225-6324 (Office); 337-1979 (Home).

SCOTT, Sir Ian Dixon, K.C.M.G., K.C.V.O., C.I.E.; British diplomat; b. 6 March 1909, Inverness; s. of Thomas Henderson Scott, M.I.C.E., O.B.E., and Mary Agnes (née Dixon); m. Hon. Anna Drusilla Lindsay 1937; one s. four d.; ed. Queen's Royal Coll., Trinidad, Balliol Coll., Oxford, London School of Econs.; entered Indian Civil Service 1932; joined Indian Political Service 1935; Asst. Commr., N.W. Frontier Province 1935; Asst. Political Officer, Chitral 1936-37; Census Supt., N.W. Frontier Province 1940-41; Asst. Dir. of Intelligence, Peshawar 1941; Principal, Islamia Coll., Peshawar 1942-45; Deputy Private Sec. to the Viceroy 1945-47; with John Lewis Partnership 1948-50; Foreign Service, London 1950, First Sec. Foreign Office 1950-51; British Legation, Helsinki 1952-53; First Sec. and Head of Chancery, Lebanon 1954, Counsellor 1956, Chargé d'Affaires 1956, 1957, 1958; Imperial Defence Coll. 1959; Amb. to Congo 1960-61, to Sudan 1961-65, to Norway 1965-68; Dir. Clarksons Holiday Holdings Ltd. 1969, Chair. 1972-73; Chair. Davell and Rufford (Holdings) Ltd. 1970-72; Chair. Board of Govs., Felixstowe Coll. 1972-, Suffolk Area Health Authority 1973-77; mem. of Council, Dr. Barnardo's 1970-, Chair. 1972-78, Pres. Indian Civil Service Assn 1977-. *Publication:* Tumbled House 1969. *Leisure interest:* sailing. *Address:* Ash House, Alde Lane, Aldeburgh, Suffolk, England.

SCOTT, J. L.; American business executive; b. 2 Feb. 1930; m.; two c.; ed. Coll. of Idaho, Harvard Univ.; with Western Enterprises Inc. 1952-53; Gen. Supervisor Albertson's Inc. 1953-61, Exec. Vice-Pres. 1961-66, Pres., Dir. 1966-72, Vice-Chair., Chief Exec. Officer 1972-74; Vice-Chair., Dir. Great Atlantic & Pacific Tea Co. Inc. Jan. 1975, Chair., Chief Exec. Officer Feb. 1975-; Dir. Morrison-Knudsen Co., Bendix Corpn. *Address:* The Great Atlantic & Pacific Tea Co. Inc., Two Paragon Drive, Montvale, N.J. 07645, U.S.A.

SCOTT, John Vivian, LL.B.; New Zealand diplomatist; b. 19 Nov. 1920; m.; three d.; ed. Victoria Univ., Wellington; joined New Zealand Dept. of External Affairs 1947; has served in Canberra, New York and London; mem. New Zealand Perm. Mission at UN 1951-55; Amb. to Japan 1965-69; Perm. Rep. to UN 1969-73; Deputy Sec. of Foreign Affairs 1973-. *Address:* 95A Jubilee Road, Khandallah, Wellington 4, New Zealand.

SCOTT, Michael; Irish architect; b. 24 June 1905, Drogheda, Co. Louth; s. of William Scott and Hilda Daly; m. Patricia Nixon 1932; four s. one d.; ed. Belvedere Coll., Dublin; Architectural pupil with Messrs. Jones & Kelly, Dublin; Partner, Scott, Tallon, Walker Architects (fmrly. Michael Scott & Partners) 1929-; Chair. Irish Directions, Cttee., Bldg. Centre of Ireland, Dublin Theatre Festival, ROSC 1967, 1971, 1977; mem. Stamp Design Advisory Comm., Council of Bolton Street Coll. of Technology, Council of Royal Coll. of Art, London, Arts Advisory Cttee. of Dublin Corpn., An Taisce Council; Past Pres. Architectural Assn., Belvedere Coll. Union; Fellow, Royal Inst. of Architects of Ireland 1946; Hon. Fellow, Royal Soc. of Ulster Architects 1967, American Inst. of Architects 1972, Structural Engineers; Dr. h.c. Royal Coll. of Art 1969, Hon. D.Litt. Trinity Coll., Dublin 1970; RIAI Triennial Gold Medal for Bus Terminus and offices of CIE, Dublin 1953-55; Royal Inst. of British Architects Gold Medal 1975; Knight's Cross, Order of Icelandic Falcon 1974. *Leisure interests:* drawing, theatre, music, sunbathing, swimming. *Address:* 19 Merrion Square, Dublin 2; Geragh, Sandycove Point, Sandycove, Co. Dublin, Ireland (Home). *Telephone:* 760621 (Office); 803515 (Home).

SCOTT, Rev. Michael (see Scott, Rev. Guthrie Michael).

SCOTT, Sir Peter (Markham), C.B.E., D.S.C., M.A.; British artist and ornithologist; b. 14 Sept. 1909, London; s. of late Capt. Robert Falcon Scott and Kathleen Bruce; m. 1st Elizabeth J. Howard 1942 (divorced 1951), one d.; m. 2nd Philippa Talbot-Ponsonby 1951, one d.; ed. Oundle School, Trinity Coll., Cambridge, Munich State Acad., and Royal Acad., London; founded, now Hon. Dir., The Wildfowl Trust 1946; Rep. Great Britain in Olympic Games, in single-handed sailing (bronze medal) 1936; served in Navy during 1939-45 War; Pres. Int. Yacht Racing Union 1955-69; Chair. Olympic Int. Yacht Racing Jury, Melbourne 1956, Naples 1960, Tokyo 1964; 1st Vice-Pres. and Chair. World Wildlife Fund; Vice-Pres. Inland Waterways Assn.; mem. Council of Winston Churchill Memorial Trust; Pres. Wildlife Youth Service; Chair. Survival Service Comm. of Int. Union for the Conservation of Nature and Natural Resources; Chancellor Birmingham Univ. 1974-; Hon. LL.D. (Aberdeen and Exeter); Cherry Kearton Medal R.G.S. 1967; Albert Medal, R.S.A. 1970; Bernard Tucker Medal B.O.U. 1970; Arthur Allan Medal Cornell Univ. 1971; Gold Medal, N.Y. Zoological Soc. 1974; Icelandic Order of Falcon 1969. *Publications:* Morning Flight 1935, Wild Chorus 1938, The Battle of the Narrow Seas 1945, Portrait Drawings 1949, Key to the Wild Fowl of the World 1949, Wild Geese and Eskimos 1951, A Thousand Geese (with James Fisher) 1953, The Eye of the Wind 1961; illustrated many books incl. Bird in the Bush (Lord Kennet), Grey Goose, and Through the Air (Michael Bratby), The Snow Goose (Paul Gallico), The Swans (with the Wildfowl Trust), etc.; Joint Editor and Illustrator of Wildfowl Trust Annual Reports 1948-. *Leisure interests:* exploring, bird-watching. *Address:* The Wildfowl Trust, Slimbridge, Glos., GL2 7BT, England. *Telephone:* Cambridge (Glos.) 333.

SCOTT, Robert Walter; American fmr. state governor; b. 13 June 1929, Alamance Co., N.C.; s. of W. Kerr Scott (fmr. Gov. of N.C. and U.S. Senator) and Mary Elizabeth (White) Scott; m. Jessie Rae Osborne 1951; one s. four d.; ed. Duke and North Carolina State Univs.; served in Counter Intelligence Corps U.S. Army 1953-55; fmr. Lieut.-Gov. of North Carolina; Gov. of North Carolina Jan. 1969-73, Past Chair. or mem. of numerous state cttees.; Exec. Vice-Pres. North Carolina Agri-business Council 1972-75; Pres. Scott Enterprises, Govt. Relations and Acceptance Group, Inc. 1975-. *Address:* 1 Haw River, N.C. 27258, U.S.A.

SCOTT, William George, C.B.E.; British artist; b. 15 Feb. 1913, Scotland; m. Hilda Mary Lucas 1936; two s.; ed. Enniskillen, Belfast School of Art and Royal Acad. Schools, London; exhbns. at Leger Gallery 1942, 1944, 1946, Leicester Gallery 1948, 1951, Hanover Gallery 1953, 1956, 1961, 1965, 1967, 1969, Tate Gallery 1963 (all in London); Martha Jackson Gallery, New York 1954, 1958, 1973, 1975; Venice Biennale 1958; São Paulo, Brazil 1953, 1961; Retrospective exhbn. Tate Gallery 1972; exhbn. Gimpel Fils, London 1974, 1976, 1978, Gallery Kasahara, Tokyo 1976, Gallery Moos, Toronto 1978; Hon. Dr. R.C.A.; Hon. D.Litt. (Queen's Univ., Belfast, and Dublin Univ.). *Leisure interest:* farming. *Address:* 13 Edith Terrace, Chelsea, London, S.W.10, England. *Telephone:* 01-352 8044.

SCOTT, William L.; American lawyer and politician; b. 1 July 1915, Williamsburg, Va.; s. of William David Scott and Nora Bell Ingram; m. Ruth Inez Huffman 1940; two s. one d.; ed. Nat. Univ.; admitted to Va. bar; Trial Attorney, Dept. of Justice 1942-60; Special Asst. to solicitor, Dept. of Interior 1960-61; private law practice, Fairfax, Va. 1961-66; Republican Senator from Va. 1966-79. *Address:* 3930 West Ox Road, Fairfax County, Virginia 22030, U.S.A. (Home).

SCOTT, Wilton Elege, B.A.; American business executive; b. 3 Jan. 1913, Elgin, Tex.; s. of Samuel S. Scott and Clara Schuerman; m. Loradean Allen 1942; one s. two d.; ed. Univ. of Texas; Surface Geologist, Standard Oil of New Jersey in Venezuela 1936-38; Geologist Cities Service, New Mexico 1938-40, District Geologist 1940-44; Chief Geologist Buffalo Oil Co., Dallas, Tex. 1944-54, Vice-Pres. for Oil and Gas Exploration in Midland, Tex. 1954-55; Oil and Gas Exploration Man. Tenneco Inc. 1955, Vice-Pres. 1956-60, Sr. Vice-Pres. Tenneco Oil Co. and Tennessee Gas and Oil Co. 1959-61; Pres. Tenneco Oil Co. 1961-70; Sr. Vice-Pres. Tenneco Inc. 1966, Dir. 1966, Exec. Vice-Pres. 1970-73, Vice-Chair. Jan.-April 1974, Pres., Chief Exec. Officer 1974-75, Chair. Pres. and Chief Exec. Officer 1975-77, Chair. and Chief Exec. Officer 1977-78 now Dir., mem. Nat. Petroleum Council, American Assn. of Petroleum Geologists and numerous other asscns.; mem. Board of Dirs. Houston Chamber of Commerce, U.S.S.R.-U.S. Trade Econ. Council, Republic of Texas Corpn.; Founding mem., Advisory Trustees for the United Fund of Houston and Harris County. *Leisure interests:* fishing, hunting, golf. *Address:* Tenneco Inc., P.O. Box 2511, Houston, Tex. 77001; 107 Glynn Way Drive, Houston, Tex., U.S.A. *Telephone:* (713) 757-4251 (Office).

SCOTTER, Gen. Sir William, K.C.B., O.B.E., M.C., M.B.I.M.; British army officer; b. 9 Feb. 1922, Wallasey, Cheshire; s. of Claude Norman and Hilda Marie (Turner) Scotter; m. Jean Stiren 1947; one s. two d.; ed. St. Bees School, Cumbria; service in ranks, Scots Guards 1941-42; commissioned 7th Gurkha Rifles 1942; war service 1/7 Gurkha Rifles, Burma (MC, wounded twice) 1944-45; postwar service in Border Regt., 1/2 Gurkhas: India, Malaya, U.K., Bahrain, Aden, Guyana, Germany; Instructor, Staff Coll. Camberley 1960-63; C.O. King's Own Border Regt. 1965-67; Commdr. 19 Infantry Brigade 1967-69; Chief of Staff, Southern Command and HQ U.K. Land Forces 1970-72; Dir. Mil. Operations in Ministry of Defence 1972-75; Vice Chief of Gen. Staff 1975-78; C.-in-C. British Army of the Rhine (BAOR) and Northern Army Group. *Leisure interests:* ball games, sawing logs, reading. *Address:* c/o Midland Bank Ltd., Court Square, Carlisle, Cumberland, England.

SCOTTO, Renata; Italian soprano; b. 1934; ed. under Ghirardini at Milan; joined La Scala Opera Company after début in La Traviata at Teatro Nuovo, Milan 1953; then studied under Merlino and Mercedes Llopart; known for roles in La Sonnambula, I Puritani, L'Elisir d'amore, Lucia di Lammermoor, Falstaff, La Bohème, Turandot, I Capuleti, etc. *Address:* c/o Il Teatro alla Scala, via Filodrammatici 2, Milan, Italy.

SCOWCROFT, Lieut.-Gen. Brent, M.A. PH.D.; American air force officer and government official; b. 19 March 1925, Odgen, Utah; s. of James and Lucile Balantyne Scowcroft; m. Marian Horner 1951; one d.; ed. U.S. Mil. Acad., West Point, and Columbia Univ.; Operational and Admin. positions in U.S. Air Force 1948-53; taught Russian history ■ Asst. Prof., Dept. of Social Sciences, U.S. Mil. Acad., West Point 1953-57; Asst. Air Attaché, U.S. Embassy, Belgrade 1959-61; Assoc. Prof., Political Science Dept., U.S. Air Force Acad., Colorado 1962-63, Prof., Head of Dept. 1963-64; Plans and Operations Section, Air Force HQ, Washington 1964-66; various Nat. Security posts with Dept. of Defense 1968-72; Mil. Asst. to Pres., The White House 1972, Deputy Asst. to Pres. for Nat. Security Affairs 1973-75, Asst. to Pres. for Nat. Security Affairs 1975-77; mem. Pres.' Gen. Advisory Cttee. on Arms Control 1977-; Defense D.S.M., Air Force D.S.M. (with two oak leaf clusters), Legion of Merit (with oak leaf cluster), Air Force Commendation Medal, Nat. Security Medal. *Address:* c/o Department of Defense, The Pentagon, Washington, D.C. 20301, U.S.A.

SCRANTON, William W., A.B., LL.B.; American lawyer and politician; b. 19 July 1917, Madison; s. of Worthington and Marion Margery Warren Scranton; m. Mary Lowe Chamberlin 1942; three s. one d.; ed. Hotchkiss School, Yale Univ. and Yale Univ. Law School; U.S. Army Air Force 1941-45; Pennsylvania bar 1946; Assoc. O'Malley, Harris, Harris and Warren 1946-47; Vice-Pres. Int. Textbook Co., Scranton, Pa. 1947-52, later Dir. and mem. Exec. Cttee.; Pres. Scranton-Lackawanna Trust Co. 1954-56; Chair. Board and Dir. Northestern Pennsylvania Broadcasting Co. 1957-61; Special Asst. to U.S. Sec. of State 1959-60; mem. U.S. House of Reps. 1961-63; Gov. of Pennsylvania 1963-67; Special Envoy to Middle East on behalf of Pres.-elect Nixon Dec. 1968; Chair. President's Commission on Campus Unrest 1970; Special Consultant to the Pres. 1974; Perm. Rep. to UN 1976-77; Chair of Board Northeastern Bank of Pa. 1974-76; Chair. UNA; Dir. American Express Co., Bethlehem Steel Co., Cummins Engines Co., IBM Corpn., New York Times Co., Scott Paper Co.; numerous hon. degrees; Republican. *Address:* Box 116, Dalton, Pennsylvania, U.S.A.

SCRIBNER, Charles, Jr., A.B.; American publisher; b. 13 July 1921, Quogue, N.Y.; s. of Charles Scribner and Vera (Bloodgood) Scribner; m. Joan Sunderland 1949; three s.; ed. St Paul's School and Princeton Univ.; in U.S. Navy 1943-46, 1950-52; Advertising Man., Charles Scribner's Sons 1946-48, Production Man. 1948-50, Pres. 1952-77, Chair. 1977-; Pres. Princeton Univ. Press. 1957-68, American Book Publisher's Council 1966-68; Trustee, Princeton Univ. 1969-. *Address:* Charles Scribner's Sons, 597 Fifth Avenue, New York, N.Y. 10017; 22 East 70th Street, New York, N.Y. 10021, U.S.A. (Home).

SCRIMSHAW, Nevin Stewart, M.D., PH.D.; American professor of nutrition; b. 20 Jan. 1918, Milwaukee, Wis.; s. of Stewart and Harriet F.S. Scrimshaw; m. Mary Ware Goodrich 1941; four s. one d.; ed. Ohio Wesleyan Univ., Harvard Univ. and Univ. of Rochester. Consultant in Nutrition, Pan American Sanitary Bureau, Regional Office of the Americas, WHO 1948-49, Regional Adviser in Nutrition 1949-53; Dir. Inst. of Nutrition of Cen. America and Panama (INCAP), Guatemala 1949-61, Consulting Dir. 1961-65, Consultant 1965-; Adjunct Prof., Public Health Nutrition, Columbia Univ.

1959-61, Visiting Lecturer 1961-66; Visiting Lecturer on Tropical Public Health, Harvard Univ. 1968-; Institute Professor and Head, Dept. of Nutrition and Food Science, Mass. Inst. of Technology 1961-, Dir. Clinical Research Centre 1962-66, Principal Investigator 1962-; Fellow, American Assen. for Advancement of Science; mem. Nat. Acad. of Sciences and numerous other nat. and foreign scientific socs. and asscns.; mem. numerous cttees. and advisory panels to UN agencies and other orgs; Int. Award, Inst. of Food Technologists 1969, Goldberger Award in Clinical Nutrition, American Medical Assen. 1969, First James R. Killian Jr. Faculty Achievement Award, M.I.T., 1972, McCollum Award, American Soc. for Clinical Nutrition 1975, Conrad A. Elvehjem Award, American Inst. of Nutrition 1976, 1st Bolton L. Corson Medal, Franklin Inst. 1976, etc. *Publications:* over 400 scientific articles on various aspects of human and animal nutrition, nutrition and infection, agricultural and food chemistry, and public health. *Address:* Department of Nutrition and Food Science, Massachusetts Institute of Technology, Cambridge, Mass. 02139, U.S.A. *Telephone:* 617-253-5101.

SCRIPPS, Charles Edward; American newspaper publisher; b. 27 Jan. 1920; ed. William and Mary Coll. and Pomona Coll. Reporter, Cleveland Press, Ohio 1941; Successor-Trustee, Edward W. Scripps Trust 1945, Chair. Board of Trustees 1948-; Vice Pres., Dir. E.W. Scripps Co. 1946-, Chair. of Board 1953-; Chair. Scripps-Howard Newspaper Group. *Address:* Central Trust Tower, Cincinnati, Ohio 45202 (Office); 1883 Madison Road, Cincinnati, Ohio 45206, U.S.A. (Home).

SCRIVENER, Ronald Stratford, C.M.G.; British diplomatist (retd.); b. 29 Dec. 1919, London; s. of late Sir Patrick Scrivener, K.C.M.G. and Margaret M. Scrivener (née Dorling); m. 1st Elizabeth Drake-Brockman 1947 (dissolved 1952), 2nd Mary O.A.S.J. Hohler (née Lane); two step s. two step d.; ed. Westminster School, St. Catharine's Coll., Cambridge and privately in France and Austria; entered diplomatic service Dec. 1945; has served in Berlin, Buenos Aires, Vienna, Caracas, Berne, Bangkok; Amb. to Panama 1969-70, to Czechoslovakia 1971-74; Asst. Under-Sec. of State, Foreign and Commonwealth Office 1974-76; Dir. British-Soviet Chamber of Commerce 1977-. *Leisure interests:* travel, fishing. *Address:* 72 Bedford Gardens, London W.8. England. *Telephone:* 01-727 1584.

SCULLY, Vincent William Thomas, C.M.G., F.C.A.; Canadian company executive (retd.); b. 9 Jan. 1900, Ballymahon, Ireland; s. of James and Katherine (Monaghan) Scully; m. Sylvia Grier 1930; one s.; ed. Christian Brothers School, New Ross (Ireland), and Trinity Coll., Dublin; practised as chartered accountant with Clarkson, Gorden, Dilworth and Nash, Toronto 1925-32; chartered accountant Ontario 1929; Dir. and Sec.-Treas. J.D. Woods & Co. Ltd. 1932-45; Comptroller and Sec.-Treas., York Knitting Mills Ltd. 1932-45; Sec.-Treas. Plateau Co. Ltd. (Crown Co.) 1940-41; Treas. and subsequently Pres. War Supplies Ltd. (Crown Co.) 1941-44; Pres. Victory Aircraft Ltd. (Crown Co.) 1944-45; Deputy Minister of Reconstruction and Supply and Vice-Pres. Nat. Research Council 1945-47; Deputy Minister of Nat. Revenue for Taxation, Canada 1948-51; Comptroller The Steel Co., Canada Ltd. 1951, Pres. 1957-66, Chair. of Board 1966-71, Chair. Exec. Cttee. 1971-74; Dir. Royal Canadian Geographical Soc.; Dir. Moore Corpn. Ltd.; awarded United States Medal of Freedom (Bronze Palm). *Leisure interests:* reading and photography. *Address:* 9 Deer Park Crescent, Apt. 1203, Toronto, Ont. M4V 2C4, Canada.

SCULTHORPE, Peter Joshua, O.B.E.; Australian composer; b. 29 April 1929, Launceston, Tasmania; s. of Joshua Sculthorpe and Edna Moorhouse; ed. Launceston Grammar School, Univ. of Melbourne and Wadham Coll., Oxford; Senior Lecturer in Music, Univ. of Sydney 1963-; Visiting Fellow, Yale Univ. 1965-67; Reader in Music, Univ of Sydney 1968; Visiting Prof. of Music, Univ. of Sussex 1971-72; comms. from bodies including Australian Broadcasting Comm., Birmingham Chamber Music Soc., Australian Elizabethan Theatre Trust and Australian Ballet; Australian Council Composers' Award 1975-78. *Compositions published include:* The Loneliness of Bunjil 1954, Sonatina 1954, Violin Sonata 1955, Irkanda I 1955, II 1959, III 1960, IV 1961, Ulterior Motifs, a musical farce and music for various revues 1957-59, Sonata for Viola and Percussion 1960, Orchestral Suite (from film They Found a Cave) 1962, Sonata for Piano 1963, The Fifth Continent 1963, String Quartet No. 6 1965, South by Five 1965, Sun Music I 1965, Sun Music for Voices 1966, Sun Music III 1967, IV 1967, Morning Song for the Christ Child 1966, Red Landscape 1966, Tabuh Tabuhan 1968, Autumn Song 1968, Sea Chant 1968, Sun Music II 1969, Orchestral Suite (from film The Age of Consent) 1968, Sun Music Ballet 1968, Ketjak for orchestra 1969, String Quartet Music 1969, Love 200 for pop group and orchestra 1970, The Stars Turn 1970, Music for Japan 1970, Rain 1970, Dream 1970, Rain 1965-70, Snow, Moon & Flowers 1971, Landscape 1971, Stars 1971, How The Stars Were Made 1971, Ketjak 1972, Koto Music 1972, Rites of Passage 1973, Music of Early 1974; various works for radio, television, theatre and film. *Address:* 147B Queen Street, Woollahra, Sydney, New South Wales 2025, Australia. *Telephone:* 324701.

SEABORG, Glenn T(heodore), B.A., PH.D.; American chemist; b. 19 April 1912, Ishpeming, Mich.; s. of H. Theodore and Selma (Erickson) Seaborg; m. Helen L. Griggs 1942; four s. two d.; ed. Univ. of California; Research Assoc., Univ. of Calif. 1937-39, Instructor 1939-41, Asst. Prof. 1941-45, Prof. of Chem. 1945-71, Dir. Nuclear Chemical Research, Lawrence Radiation Laboratory 1946-58, 1972-75, Assoc. Dir. Lawrence Radiation Laboratory 1954-61, Chancellor, Univ. of Calif., Berkeley 1958-61, on leave of absence to head plutonium chem. work of Manhattan Project at Univ. of Chicago Metallurgical Laboratory 1942-46; on leave of absence to serve as Chair. U.S. Atomic Energy Comm 1961-71; Univ. Prof. 1971-; Assoc. Dir. Lawrence Berkeley Laboratory 1972-; Chair. Steering Cttee., Chemical Educ. Material Study (CHEM Study), Nat. Science Foundation 1959-74; Pres. Board of Trustees, Science Service 1966-; mem. Board of Trustees, Educational Broadcasting Corpn. 1970-73; mem. Nat. Programming Council for Public Television 1970-72; Pres. American Assen. for the Advancement of Science 1972, Chair. of the Board 1973; Pres. American Chem. Soc. 1976; co-discoverer of elements 94 (plutonium), 95 (americium), 96 (curium), 97 (berkelium), 98 (californium), 99 (einsteinium), 100 (fermium), 101 (mendelevium), 102 (nobelium) and 106; author of actinide concept of heavy element electronic structure; Nobel Prize in Chem. 1951; Enrico Fermi Award 1959; Franklin Medal 1963; Arches of Science Award 1968; foreign mem. ten nat. acads. of science, including U.S.S.R.; Officier Légion d'honneur 1973; other awards include more than 40 hon. degrees. *Publications:* The Transuranium Elements: Research Papers (ed. with J.J. Katz and W.M. Manning) 1949, Production and Separation of U^{233} (ed. with L. I. Katzin) 1951, The Actinide Elements (ed. with J.J. Katz) 1954, Comprehensive Inorganic Chemistry Vol. I (with others) 1953, The Chemistry of the Actinide Elements (with J.J. Katz) 1957, The Transuranium Elements 1958, Elements of the Universe (with E.G. Valens) 1958, Man-made Transuranium Elements 1963, Education and the Atom (with D.M. Wilkes) 1964, The Nuclear Properties of the Heavy Elements, Vol. I: Systematics of Nuclear Structure and Radioactivity, and Vol. II: Detailed Radioactivity Properties (with E.K. Hyde and I. Perlman) 1964, Man and Atom (with W.R. Corliss) 1971, Nuclear Milestones 1972; more than 200 papers on nuclear chemistry and physics, etc. *Address:* Lawrence Berkeley Laboratory, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* (415) 843-2740.

SEAMANS, Robert Channing, Jr.; American scientist and government official; b. 30 Oct. 1918, Salem Mass.; s. of Robert Channing and Pauline (Bosson) Seamans; m. Eugenia Merrill 1942; three s. two d.; ed. Harvard and Mass. Inst. of Technology. Massachusetts Inst. of Technology 1941-55, teaching and project management positions, successively Assoc. Prof. Dept. of Aeronautical Engineering, Chief Engineer Project Meteor, Dir. Flight Control Laboratory; Radio Corpn. of America 1955-60, successively Man. Airborne Systems Lab., Chief Systems Engineer Airborne Systems Dept., Chief Engineer Missile Electronics and Control Div.; Assoc. Administrator and later Deputy Administrator Nat. Aeronautics and Space Admin. (NASA) 1960-68; Consultant to Admin. (NASA) 1968-69; Sec. of Air Force 1969-73; Visiting Prof. of Aeronautics and Astronautics and of Management, Mass. Inst of Technology 1968, Jerome Clarke Hunsaker Prof. 1968-69, Henry R. Luce Prof. of Environment and Public Policy 1977, Dean of Engineering 1978-; Dir. Mass. Tech. Devt. Corpn. 1978; mem. Nat. Acad. of Eng. 1968-, Pres. 1973-74; Admin., Energy Research and Devt. Admin. 1974-77; mem. Scientific Advisory Board, U.S. Air Force 1957-62, Assoc. Adviser 1962-67; Nat. Del. to Advisory Group for Aerospace Research and Devt. (NATO) 1966-69; Dir. Air Products and Chemicals Inc., Alliance to Save Energy, Charles Stark Draper Lab. Inc., Combustion Eng. Inc., Eli Lilly and Co., Johnny Appleseed's Inc.; mem. Int. Acad of Astronautics, American Acad. of Arts and Sciences, Nat. Space Club, Council on Foreign Relations, Foreign Policy Assen., American Inst. of Aeronautics and Astronautics, American Philosophical Soc., Nat. Acad. of Eng., American Astronautical Soc., American Soc. for Public Admin., American Assen for Advancement of Science; Fellow, Inst. of Electrical and Electronic Engs.; Hon. Fellow, American Inst. of Aeronautics and Astronautics and Astronautics; Trustee Aerospace Corpn., Carnegie Inst. of Washington, D.C., Boston Science Museum, Nat. Fund for Minority Eng. Students, Nat. Geographic Soc., Sea Educ. Assoc. U.S.A.F. Historical Foundation; Hon. Degrees; D.Sc. (Rollins Coll.) 1962, (New York Univ.) 1967; D. Eng. (Norwich Acad.) 1971, (Notre Dame) 1974, (Rensselaer Polytech. Inst.) 1974; LL.D. (Univ. of Wyoming) 1975; Doctor of Public Service (George Washington

Univ.) 1975; *Awards include:* Naval Ordnance Devt. Award 1945; Lawrence Sperry Award, American Inst. of Aeronautics and Astronautics 1951; NASA Distinguished Service Medal 1965, 1969; General Thomas D. White U.S. Air Force Space Trophy 1973; Dept. of Defense Distinguished Public Service Medal 1973; Dept. of Air Force Exceptional Civilian Award 1973. *Leisure interests:* tennis, sailing, skiing. *Address:* Massachusetts Institute of Technology, Room 1-206, 77 Massachusetts Avenue, Cambridge, Mass. 02139, U.S.A. *Telephone:* (617) 253-3292 (Office).

SEARLE, Humphrey, M.A., C.B.E., F.R.C.M.; British composer; b. 26 Aug. 1915, Oxford; s. of Humphrey Frederic Searle, and Charlotte Mathilde Mary Schlich; m. 1st Margaret Gillen Gray 1949 (died 1957), 2nd Fiona Elizabeth Anne Nicholson 1960; ed. Winchester Coll., New Coll., Oxford, and Royal Coll. of Music; studied privately with Anton Webern; mem. BBC Music Dept. 1938-40; army service 1940-46; Producer BBC Music Dept. 1946-48; Gen. Sec. Int. Soc. for Contemporary Music 1947-49; mem. Sadler's Wells Ballet Advisory Panel 1951-57; Hon. Sec. Liszt Soc. 1950-62; Resident Composer, Standford Univ., Calif., U.S.A. 1964-65; Prof. of Composition, Royal Coll. of Music, London 1965-; Guest Composer Aspen Music Festival, Colorado, U.S.A. 1967; Guest Prof. Staatliche Hochschule für Musik, Karlsruhe 1968-72; Visiting Prof., Univ. of Southern California 1975-77; Hon. Prof. Fellow, Univ. Coll of Wales, Aberystwyth, 1977. *Compositions include:* First Piano Concerto 1944, Trilogy on Texts of Edith Sitwell and James Joyce 1949-52, Poem for 22 Strings 1950, Piano Sonata 1951, First Symphony 1953, Second Piano Concerto 1955, Noctambules (ballet) 1956, The Great Peacock (ballet) 1958, The Diary of a Madman (opera) 1958, Second Symphony 1958, Third Symphony 1960, Fourth Symphony 1962, Dualities (ballet) 1963, The Photo of the Colonal (opera) 1964, Fifth Symphony 1964, Scherzi for Orchestra 1964, The Canticle of the Rose 1965, Oxus scena 1967, Hamlet (opera) 1968, Sinfonietta for nine instruments 1969, Jerusalem (Blake) 1970, Hamlet Suite 1970, Zodiac Variations 1970, Labyrinth 1971, Cello Fantasia 1972, Les Fleurs du Mal 1972, Fantasy-Toccata for organ 1973, Kubla Khan 1974, Five for Guitar 1974, Skimbleshanks (T.S. Eliot) 1975, Contemplations 1975, Fantasia on British Airs 1976, Dr. Faustus (cantata). 1977, music for the Oresteia 1978, Tamesis 1979; music for stage, radio, TV and films. *Publications:* The Music of Liszt 1966, Twentieth Century Counterpoint 1954, Ballet Music: An Introduction 1973, 20th Century Composers 3 1972. *Leisure interest:* travel. *Address:* 44 Ordnance Hill, London, N.W.8, England. *Telephone:* 01-722 5182.

SEARLE, Ronald, A.G.I., F.S.I.A.; British artist; b. 3 March 1920, Cambridge; s. of William James and Nellie (Hunt) Searle; m. 1st Kaye Webb (dissolved 1967), one s. one d.; m. 2nd Monica Koenig 1967; ed. Central School, Cambridge and Cambridge School of Art; first drawings published 1935-39; served with Royal Engineers 1939-46; prisoner-of-war in Japanese camps 1942-45; contributor to nat. publs. 1946-; mem. Punch 'Table' 1956-; special features artist Life magazine 1955-; Holiday 1957, The New Yorker 1966-; One-Man Exhbns. Leicester Galleries (London) 1950, 1954, 1957, Kraushaar Gallery (New York) 1959, Bianchini Gallery (New York) 1963, Kunsthalle (Bremen) 1965, in Paris 1966, 1967, 1968, 1969, 1970, 1971, Bibliothèque Nationale 1973, in Munich 1967, 1968, 1969, 1970, 1971, 1973, 1976, in London 1968, etc.; work rep. in Victoria and Albert Museum and British Museum (London), Bibliothèque Nationale, Paris and in several German and American museums; designer of several films including John Gilpin, On the Twelfth Day, Energetically Yours (awards at Venice, Edinburgh, San Francisco and other film festivals), Germany 1960, Toulouse-Lautrec, Dick Deadeye, or Duty Done 1975; designed animation sequences for films Those Magnificent Men in their Flying Machines 1965, Monte-Carlo or Bust! 1969, Scrooge 1970; Los Angeles Art Dirs. Club Medal 1959, Philadelphia Art Dirs. Club Medal 1959, Nat. Cartoonists' Soc. Award 1959, 1960, Gold Medal, III Biennale, Tolentino, Italy 1965, Prix de la Critique Belge 1968, Grand Prix de l'Humour noir (France) 1971, Prix d'Humour, Festival d'Avignon 1971, Medal of French Circus 1971, Prix Internationale "Charles Huard" 1972, La Monnaie de Paris Medal 1974. *Publications:* Forty drawings 1946, John Gilpin 1952, Souls in Torment 1953, Rake's Progress 1955, Merry England 1956, Paris Sketchbook 1957, The St. Trinian's Story (with Kaye Webb) 1959, U.S.A. For Beginners 1959, Russia for Beginners 1960, The Big City 1958 (all with Alex Atkinson), Refugees 1960 1960, Which Way did he Go? 1961, Escape from the Amazon 1963, From Frozen North to Filthy Lucre 1964, Those Magnificent Men in their Flying Machines 1965, Haven't We Met Before Somewhere? (with Heinz Huber) 1966, Searle's Cats 1967, The Square Egg 1968, Hello—Where did all the People Go? 1969, Secret Sketchbook 1970, The Second Coming of Toulouse-Lautrec 1970, The Addict 1971, More Cats 1975, Designs for Gilbert and Sullivan 1975, Paris! Paris! (with Irwin Shaw) 1977, Searle's Zoodiac 1977, Ronald Searle (monograph) 1978, etc. *Address:* c/o Hope Leresche and Sayle, 11 Jubilee Place, London, SW3 3TE, England; John Locke Studio, 15 East 76th Street, New York, N.Y. 10021, U.S.A. *Telephone:* 01-352 4311 (London); BU-8-8010 (New York).

SEARS, Ernest Robert, B.S., M.A., PH.D.; American geneticist; b. 15 Oct. 1910, Oregon; s. of Jacob P. Sears and A. Estella McKee; m. 1st Caroline F. Eichorn 1936, 2nd Lotti M. Steinitz 1950; two s. two d.; ed. Oregon State Coll. and Harvard Univ.; Geneticist, U.S. Dept. of Agriculture 1936-; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Göttingen); Agronomy Soc. Award 1951, Hoblitzelle Award 1958, Gamma Sigma Delta Award 1958, U.S. Dept. of Agriculture Superior Service Award 1958, Mo. Sigma Xi Research Award 1970, Ore. State Univ. Distinguished Service Award 1973; Genetics Soc. of Canada Award of Excellence 1977. *Publications:* 90 papers and articles on wheat cytogenetics. *Address:* Curtis Hall, University of Missouri, Columbia, Mo. 65201, U.S.A. *Telephone:* 314-882-7225.

SEARS, Paul Bigelow, B.SC., B.A., M.A., PH.D.; American ecologist; b. 17 Dec. 1891, Bucyrus, Ohio; s. of Rufus Victor and Sallie Harris Sears; m. W. Marjorie Lea McCutcheon 1917; one s. two d.; ed. Ohio Wesleyan Univ., Univ. of Nebraska, and Univ. of Chicago; Instructor in Botany, Ohio State Univ. 1915-19; Asst. Prof. Univ. of Nebraska 1919-25, Assoc. Prof. 1925-27; Prof. and Head of Dept. of Botany, Univ. of Oklahoma 1927-38, Oberlin Coll. 1938-50; Dir. of Conservation, Yale Univ. 1950-60; Chair. Botany Dept., Yale 1953-55; Pres. American Assen. for the Advancement of Science 1956, Chair. of Board of Dirs. 1957; mem. Nat. Science Board 1958-64; Hon. Pres. Nat. Audubon Soc.; Trustee, Pacific Tropical Botanical Garden 1963-71; Hon. D.Sc. (Ohio Wesleyan); Hon. Litt. D. (Marietta Coll.); Hon. LL.D. (Arkansas, Nebraska and Wayne State Univs.); Hon. D.Sc. (Oberlin Coll. and Bowling Green State Univ.), citations and medals for ecology and conservation. *Publications:* Deserts on the March 1935, This is our World 1937, Life and Environment 1939, Charles Darwin 1950, Where There is Life 1962, The Living Landscape 1966, Lands Beyond the Forest 1968, Wild Wealth (co-author) 1971; numerous technical and general articles on ecology. *Leisure interests:* farming, sketching, writing and lecturing on ecology. *Address:* 17 Las Milpas, Taos, New Mexico 87571, U.S.A. *Telephone:* 1-505-758-4637.

SEAWELL, William Thomas, B.S., J.D.; American airline executive; b. 27 Jan. 1918, Pine Bluff, Ark.; s. of George M. Seawell and Harriet A. Aldridge; m. Judith T. Alexander 1941; one s. one d.; ed. U.S. Military Acad. and Harvard Law School; served U.S.A.F. 1942-63, retd. Brig-Gen.; Vice-Pres. (Operations and Engineering) Air Transport Assen. 1963-65, Senior Vice-Pres. (Operations) American Airlines Inc. 1965-68; Pres. Rolls-Royce Aero Engines Inc. 1968-71; Pres. and Chief Operating Officer, Pan American World Airways Inc. 1971-72, Chair. Board, Pres. and Chief Exec. Officer 1972-75, Chair. Board and Chief Exec. Officer 1976-; Dir. Cluett, Peabody and Co. Inc., The Lehman Corpn., J. Ray McDermott and Co. Inc., Silver Star Distinguished Flying Cross, Air Medal, Croix de guerre. *Address:* Pan American World Airways Inc., Pan Am Building, New York, N.Y. 10017 U.S.A.

SECK, Assane; Senegalese politician; b. 10 Feb. 1919, Inor, Sédhiou; ed. Primary School, Sédhiou, Ecole Nat. William Ponty, Sébikotane, Lycée Draguinan, France, Univ. of Paris; Lecturer, Faculty of Literature, Univ. of Dakar 1956; Asst. Master Maurice Delafosse Tech. Secondary School, Dakar 1956-66; mem. Constituent Assembly 1957; Asst. Sec.-Gen. Parti du regroupement africain Sénégal 1957-58; Minister of Cultural Affairs 1966-68, of Nat. Educ. 1968-73, of Foreign Affairs 1973-75, of State for Foreign Affairs 1975-78, of Cultural Affairs March 1978-; mem. Nat. Assembly 1968-; Admin Sec. Polit. Bureau, Parti Socialiste Sénégalais Feb. 1978-. *Address:* Ministère de Culture, Dakar, Senegal.

SECOMSKI, Kazimierz, DR.ECON.SC.; Polish economist and politician; b. 26 Nov. 1910, Kamieńsk, Piotrków Trybunalski District; ed. economic studies; Prof. Univ. of Łódź 1947, Main School of Planning and Statistics, Warsaw 1948-; mem. Polish Acad. of Sciences 1961-, Head Cttee. of Econ. Sciences, mem. Presidium 1972-; Vice-Chair. State Comm. of Econ. Planning 1955-56; Vice-Chair. Econ. Council, Council of Ministers 1957-62; Vice-Chair. Planning Comm., Council of Ministers 1957-68, First Vice-Chair. 1971-76; Deputy Prime Minister Dec 1976-; Chair. Chief Council of Polish Econ. Soc., State Prize 2nd Class 1970, 1st Class 1974; Order of Builders of People's Poland 1974; Order of Banner of Labour, 1st and 2nd class; Dr. h.c. (Warsaw Univ.) 1975. *Publications:* Planowanie inwestycji 1954-55, Wstęp do teorii rozmieszczenia sił wytwórczych 1956, Studia ■ zakresu efektywności inwestycji 1957, Podstawy planowania perspektywicznego 1966, Elementy polityki ekonomicznej 1970, Prognostyka 1971, Polityka Społeczno-Ekonomiczna. Zarys Teorii 1977. *Address:* Urząd Rady Ministrów, Aleje Ujazdowski I, 00 583 Warsaw, Poland.

SEDNEY, Jules; Surinam politician; b. 28 Sept. 1922, Paramaribo; ed. Graaf van Zinzendorfschool, Mulo and Univ. of Amsterdam; fmr. teacher; held senior post with Cen. Bank of Surinam 1956-58; Minister of Finance 1958-63; Dir Industrial Devt. Comm. of Surinam and Nat. Devt. Bank 1963; left Nationale Partij Suriname (NPS) and joined Progressieve Nationale Partij (PNP) 1967; Prime Minister and Minister of Gen. Affairs 1970-73. *Address:* Progressieve Nationale Partij, Keizerstraat 195, Paramaribo, Surinam.

SEDOV, Leonid Ivanovich; Soviet foreign trade corporation official; b. 7 Jan. 1917; ed. Moscow Mining Inst.; Mineworker, Khabarovsk Territory 1940-41; Red Army 1941-44; Soyuzpromexport 1944-46; Soviet Trade Mission in Britain 1946-51; U.S.S.R. Ministry to Foreign Trade 1951-55; Trade Counsellor, Soviet Embassy, Indonesia 1955-56, Trade Rep. in Indonesia 1956-60; Chair. Soyuzpromexport (coal and mineral) 1960-64; Head of Dept. U.S.S.R. Ministry of Foreign Trade 1964-; mem. C.P.S.U.; Badge of Honour etc. *Address:* Ministry of Foreign Trade, 32/34 Smolenskaya-Sennaya ploshschad, Moscow, U.S.S.R.

SEDOV, Leonid Ivanovich; Soviet scientist; b. 14 Nov. 1907, Rostov-on-Don; s. of Ivan and Raisa Sedov; m. Galia Tolstova 1931; one s. one d.; ed. Moscow Univ. at the Aero-hydro-dynamics Inst. 1931-; Prof. at Moscow Univ. 1937-; at the Central Aircraft Engine Designing Inst. 1947-; mem. U.S.S.R. Acad. of Sciences 1953-; Chief Editor Cosmic Research; Pres. Int. Astronautical Fed. 1960-62, Vice-Pres. 1962-; Foreign mem. Acad. des Sciences; awarded five Orders of Lenin, two Orders of Red Banner, Chaplygin Prize 1946, State Prize 1952, Lomonosov Prize 1954, Hero of Socialist Labour 1967, Belsch Prize 1968, Légion d'honneur 1971; Liapounov Medal 1974, H. Obert Gold Ring 1976, D. and F. Guggenheim Int. Astronautics Award 1977; Hon. mem. of a number of foreign acads. and univs. *Publications:* Extension of Powerful Blasts, Two Dimensional Problems in Hydro-dynamics and Aerodynamics, Similarity and Dimensional Methods in Mechanics 1944, Some Unsteady Movements in Compressible Liquid 1945, Introduction to Continuous Mechanics 1962, Nonlinear Mechanics of Continuous Media 1969, Mechanics of Continuous Media, Vols. I and II 1973. *Address:* Moscow V-234, Leninskie Gory, MGU, Zona II, kv. 84, U.S.S.R.

SEDWITZ, Walter J., M.A., PH.D.; American economist; b. 14 April 1925, Austria; s. of Emil H. Sedwitz and Anna de Pitt; m. Jacqueline Maltaire 1951; two s.; ed. Univ. de Paris à la Sorbonne and Columbia Univ.; fmr. Dir. of Latin American Studies, Council on Foreign Relations; Economist, UN 49, U.S. Dept. of Commerce 1951-53; Research Fellow, Council on Foreign Relations 1953-54; Dir. of Research Dept., Fed. Reserve Bank of New York 1953-59; Adviser to several Latin American countries in econ. and financial sphere 1953-59; Prof. of Econs. and Senior Research Fellow, Boston Univ.; Dir. Dept. of Econs., Pan American Union, Org. of American States (OAS) Washington 1961-63; Asst. Sec. for Econ. and Social Affairs, OAS 1963-; Exec. Sec. Inter-American Econ. and Social Council, OAS 1963-; Exec. Sec. Inter-American Cttee. on Alliance for Progress; Trustee, Panamerican Devt. Foundation; mem. Council on Foreign Relations, Center for Interamerican Relations, American Econ. Assn. *Publications:* Inflexible Interest Rates and Monetary Policy, Monetary Controls in Underdeveloped Countries, The Mexican Devaluation of 1954, Toward a Latin-American Common Market, The Alliance for Progress and Multi-lateral Economic Cooperation. *Leisure interests:* piano, winter sports. *Address:* Inter-American Economic and Social Council, General Secretariat, Washington, D.C. 20006; 6704 Tulip Hill Terrace, Bethesda, Maryland, U.S.A. (Home). *Telephone:* 652-1848.

SEEBOHM, Baron (Life Peer), cr. 1972, of Hertford; **Frederick Seebohm,** Kt.; British banker; b. 18 Jan 1909, Hitchin Herts.; s. of Hugh Exton Seebohm and Leslie Gribble; m. Evangeline Hurst 1932; one s. two d.; ed. Leighton Park School, Reading, and Trinity Coll., Cambridge; Barclays Bank Ltd. 1929-; Sheffield, York and Birmingham, Dir. 1947-, Deputy Chair. 1968-74; Dir. Barclays Bank D.C.O., now Barclays Bank Int., 1951-55, Vice-Chair. 1955-59, Deputy Chair. 1959-65, Chair. 1965-72, Chair. London Cttee. 1965-72; Chair. Finance for Industry Ltd., Industrial and Commerical Finance Corpn. Ltd., Finance Corpn. for Industry Ltd., ICFC Trustee Co. Ltd., Tech. Devt. Capital Ltd., Gardens Pensions Trustees Ltd., Ship Mortgage Finance Co. Ltd., Finance for Shipping Ltd., Estate Duties Investment Trust Ltd.; Dir. Friends' Provident Life Office, Equity Capital for Industry Ltd.; numerous other directorships; Pres. Inst. of Bankers 1966-68; Chair. Export Guarantees Advisory Council 1967-72; High Sherriff of Hertfordshire 1970-71; Gov. London School of Econs. and Political Science; official of commercial, social and educational orgs. *Leisure interest:* painting. *Address:* Finance for Industry Ltd., 91 Waterloo Road, London, SE1 8XP; Brook House, Dedham, Nr. Colchester, Essex, England (Home). *Telephone:* 01-928 7822 (Office); Dedham 3372 (Home).

SEEFEHLNER, Egon Hugo, DR.IUR.; Austrian opera director; b. 3 June 1912, Vienna; s. of Dr. Egon Ewald Seefehlner and Charlotte de Kerpely-Krassó; ed. Theresianum, Univ. of Vienna, Konsularakademie; Co-founder and Gen. Sec. Austrian Cultural Assn. 1945; Chief Editor Der Turm (cultural) magazine 1945; also in Ministry of Educ.; organized art exhbns., especially modern painting and sculpture; Gen. Sec. Wiener Konzerthausgesellschaft 1946-61; Founded and organized Vienna Int. Music Festivals; Deputy Dir. Vienna State Opera 1954-61, Gen. Man. Sept. 1976-; Deputy Gen. Man. and Gen. Sec. Deutsche Oper, Berlin 1961-72, Gen. Man. 1972-76; Commdr's Cross, Papal Order of Silvester; Officier Ordre des Arts et des Lettres; Goldenes Ehrenzeichen für Verdienste um das Land Wien; Österreichisches Ehrenkreuz für Wissenschaft und Kunst, 1st Class. *Address:* Staatsoper, Vienna, Austria; Goldschmiedgasse 10, 1 Berlin 19, Federal Republic of Germany.

SEEFELDER, Matthias, DR.RER.NAT.; German Industrial executive; b. 1920, Boos, Kreis Memmingen, Bavaria; ed. Humanistisches Gymnasium, Univ. of Munich; joined BASF AG 1951, Deputy mem. Man. Board 1971, mem. Man. Board 1973, Chair. Man. Board 1974-, mem. Board of Dirs. of Hack-Stiftung; Hon. Prof., Faculty of Chem., Univ. of Heidelberg 1974; Pres. Assn. of Chem. Industries, Frankfurt 1978-79; mem. Advisory Board, Deutsches Museum, Munich; Senator, Max-Planck-Gesellschaft; corresp. mem. Acad. Sciences and Literature, Mainz. *Address:* BASF Aktiengesellschaft, 6700 Ludwigshafen, Federal Republic of Germany. *Telephone:* 0621-603 454.

SEEFRIED, Irmgard; Austrian singer; b. 9 Oct. 1919, Köngetried, Bavaria; m. Wolfgang Schneiderhan (*q.v.*); two d.; ed. Augsburg Conservatoire; Aachen 1940-41; Vienna State Opera 1943-; numerous world-wide concert tours and engagements; has appeared at festivals in Salzburg, Florence, Lucerne, Edinburgh, Perugia, Athens, Amsterdam, etc.; numerous recordings; Hon. mem. Boston Symphony 1954, Vienna State Opera 1969; awarded title of Kammersängerin 1947, Lili Lehmann Medal 1953, Mozart Medal 1953, Royal Danish Dannebrog Order, 1st Class, 1963, Grosser Verdienst-Kreuz, Fed. Repub. of Germany 1963, Ehrenring, Vienna State Opera, 1969, Hugo Wolf Medal 1971, Culture Prize (Luxembourg) 1977. *Address:* 1190 Vienna, Kaasgrabeng. 98A, Austria.

SEEISO, Constantine Bereng (see H.M. King Moshoeshoe II).

SEELYE, Talcott Williams; American diplomatist; b. 6 March 1922, Beirut, Lebanon; s. of Laurens and Kate C. Seelye; m. Joan Hazeltine 1950; one s. three d.; ed. Deerfield Acad., Amherst Coll. and George Washington Univ. Army service 1943-46; teacher, Deerfield Acad., Deerfield, Mass. 1947-48; speech writer, Washington 1948-49; joined State Dept. 1949; served in Germany, Jordan and Lebanon; Consul, Kuwait 1956-60; Chargé d'Affaires, Saudi Arabia 1965-66, Deputy Chief of Mission 1966-68; Amb. to Tunisia 1972-76; Deputy Asst. Sec. for African Affairs 1976-; Special Presidential Emissary to Lebanon June-Aug. 1976; Amb. to Syria 1978-; mem. Exec. Advisory Council Hampshire Coll.; White House Commendation; Hon. LL.D. (Amherst Coll.) 1974. *Publications:* articles in various journals. *Leisure interests:* sport, music, archaeology. *Address:* American Embassy, 5 Sharia al-Mansour, Damascus, Syria.

SEFRIN, Max; German politician; b. 21 Nov. 1913, Stambach/Pfalz; ed. Oberrealschule; served as pilot, Second World War; prisoner of war in U.S.S.R.; on return worked as man. of private firm; Hon. Councillor for Trade and Supply, City Council of Jüterborg 1946-; mem. Volkskammer (People's Chamber), G.D.R. 1952-; mem. Christian Dem. Union (CDU) 1946-, and Pres. of CDU group in Volkskammer 1952-58, Deputy Gen. Sec. 1966-; Deputy Chair. Council of Ministers and Minister of Health 1958-71; Chair. CDU Viet-Nam Cttee.; 1965- Deputy Chair. Cttee. on Nat. Defence, Volkskammer, 1971-; Vaterländischer Verdienstorden in Bronze and Gold (twice). *Address:* Christlich-Demokratische Union, Otto-Nuschke-Strasse 59-60, 108 Berlin, German Democratic Republic.

SEGAL, George, B.A.; American film actor and producer; b. 13 Feb. 1934, New York, N.Y.; s. of George Segal and Fanny (Bodkin); m. Marion Sobol 1956; two d.; ed. Manhasset Bay High School, Great Neck Junior High School, The George School, Haverford Coll., Columbia Coll.; *Films include;* The Young Doctors 1961, Act One 1962, The Longest Day 1962, Invitation to a Gunfighter 1964, The New Interns 1964, Ship of Fools 1965, King Rat 1965, Who's Afraid of Virginia Woolf? 1966, The Quiller Memorandum 1966, Bye Bye Braverman 1968, No Way to Treat a Lady 1968, The

Bridge at Remagen 1969, She Couldn't Say No 1969, The Southern Star 1969, Loving 1970, Where's Poppa? 1970, The Owl and the Pussy Cat 1970, Born to Win 1972, The Hot Rock 1972, A Touch of Class 1972, Blume in Love 1972, The Terminal Man 1973, California Split 1973, Blackbird 1974, Russian Roulette 1975, The Duchess and the Dirtwater Fox 1976, Fun with Dick and Jane 1976, Rollercoaster 1977. *Address:* c/o Julius Lefkowitz & Co., 1350 6th Avenue, New York, N.Y. 10019, U.S.A.

SEGAL, Ronald Michael, B.A.; South African author; b. 14 July 1932, Cape Town; s. of Leon and Mary Segal; m. Susan Wolff 1962; one s. two d.; ed. Univ. of Cape Town and Trinity Coll., Cambridge; Dir. Faculty and Cultural Studies Nat. Union of South African Students 1951-52; Pres. Univ. of Cape Town Council of Univ. Socs. 1951; won Philip Francis du Pont Fellowship to Univ. of Virginia (U.S.A.) 1955 but returned to South Africa to found Africa South (quarterly) 1956; helped launch economic boycott April 1959; banned by South Africa Govt. from all meetings July 1959; in England with Africa South in Exile, April 1960-61; Gen. Editor Penguin African Library 1961-; Hon. Sec. South African Freedom Assen. 1960-61; Convenor, Int. Conf. on Econ. Sanctions against South Africa 1964, Int. Conf. on S.W. Africa 1966; Visiting Fellow, Center for Study of Democratic Insts., Santa Barbara 1973. *Publications:* The Tokolosh (a fantasy) 1960, Political Africa: A Who's Who of Personalities and Parties 1961, African Profiles 1962, Into Exile 1963, Sanctions Against South Africa (Editor) 1964, The Crisis of India 1965, The Race War 1966, South West Africa: Travesty of Trust (Editor) 1967, America's Receding Future 1968, The Struggle against History 1971, Whose Jerusalem? The Conflicts of Israel 1973, The Decline and Fall of the American Dollar 1974, The Tragedy of Leon Trotsky 1979. *Leisure interest:* day-dreaming. *Address:* The Old Manor House, Manor Road, Walton-on-Thames, Surrey, England. *Telephone:* Walton-on-Thames 27766.

SÉGALAT, André, L. EN. D.; French administrative official; b. 10 Aug. 1910, Paris; ed. Lycées Charlemagne and Louis-le-Grand, Faculté de Droit, Paris and Ecole des Sciences Politiques; Auditeur Conseil d'Etat 1937, Maître des Requêtes 1944, Conseiller d'Etat 1960-75; Sec.-Gen. of the Govt. 1946-58; Chair. Board of Dirs. of the Société Nat. des Chemins de Fer Français 1958-75; mem. Board of Dirs. Ecole Polytechnique 1945-74; mem. Board, Ordre de la Légion d'honneur 1973-; Pres. Groupement de l'Industrie Chimique 1976-; Pres. Interinfra (Int. Co. for devt. of infrastructures) 1976–; Grand Officier de L'Ordre nat. du Mérite; Grand Officier Légion d'honneur. *Address:* 24 rue Lafayette, 75009 Paris, France.

SÉGARD, Norbert, D.SC.; French scientist and politician; b. 3 Oct. 1922, Aniche (Nord); m. three c. Founder Dir. Inst. Supérieur d'Electronique du Nord, Dir. des Hautes Etudes Industrielles; Pres. Féd. des Ecoles Supérieures d'Ingénieurs et de Cadres; mem. Council, Scientific Soc. of Brussels, Pres. 1970-71; Dir. Eng. Section, Inst. Européen pour la formation Professionnelle, Paris 1961, Milan 1963, Munich 1965, Paris 1967; Dir. Fondation pour l'Innovation; mem. many French and foreign professional socs.; mem. High Council of Nat. Educ., Nat. Council of Higher Educ. and Research; mem. Nord Regional Council; Deputy for Lille 1973; Sec. of State for Foreign Trade 1974-75, Minister Feb. 1975-Jan. 1976; Sec. of State for Posts and Telecommunications 1976-; several decorations. *Address:* Ministère des Postes et Télécommunications, Paris, France.

SEGAWA, Minoru; Japanese investment executive; b. 31 March 1906; ed. Osaka Commercial Univ.; Nomura Securities Ltd., 1929-; Dir. 1946-, Man. Dir. 1948-52, Exec. Vice-Pres. 1952-59, Pres. 1959-68, Chair. 1968-; Dir. Tokyo Securities Dealers Assen. 1962-; Tokyo Stock Exchange 1962- (now Chair.), Mainichi Broadcasting Co. Ltd. 1953-, Nippon Koka Railway Co. Ltd. 1961-; Auditor, Toho Distiller Co. Ltd. 1953-, Tokyo Koku Precision Instrument Co. 1957-. *Address:* Nomura Securities Co. Ltd., 1 Nihonbashi 1-chome, Chuo-ku, Tokyo 103; and 15-14 Minami-Aoyama 1-chome, Minato-ku, Tokyo, Japan

SEGERS, Paul Willem; Belgium politician; b. 21 Dec. 1900, Antwerp; ed. Catholic Univ. of Louvain; Sec. Gen. Fed. of Christian Workers 1927-47, Pres. 1947; mem. City Council of Antwerp 1932-; Alderman of City of Antwerp 1939-49; Senator 1949-; Minister of Communications 1949-54, 1958-61; Minister of Nat. Defence 1961-65, Vice-Pres. of Council and Minister in charge of Co-ordination of Social Policies 1965-66; Minister of State 1967, of Nat. Defence 1968-71; Christian Socialist Party; seven Belgian and foreign awards. *Address:* Avenue Rubens 1, Antwerp, Belgium.

SEGERSTEDT, Torgny, D.PHIL.; Swedish university administrator; b. 11 Aug. 1908, Mellerud; s. of Prof. Torgny and Augusta Segerstedt; m. Marie Louise Karling 1934; one s. two d.; ed. Lund Univ.; Asst. Prof. in Moral Philosophy, Lund Univ. 1934-38; Prof. of Moral Philosophy, Uppsala Univ. 1938, of Sociology 1947, Dean of Faculty of Philosophy 1947-54, and Rector 1955-78; Chair. Social Science Research Council; Chair. Univ. Comm. 1957-63; Chair. Bank of Sweden Research Council 1965-74; mem. Swedish Acad.; Grand Commdr. Order of Northern Star; Commdr. of the Order of Finnish White Rose; Officier Légion d'honneur; Dr. h.c. (Univ. of Helsinki, Finland, Uppsala Univ., Sweden, Upsala Coll., N.J., U.S.A., Univ of Aberdeen, U.K., Univ. of Florida, Gainesville, U.S.A., Cracow). *Publications:* Value and Reality in Bradley's Philosophy 1934, The Problem of Knowledge in Scottish Philosophy 1935, Common-Sense-Skolan 1937, Värde och Verklighet (Value and Reality) 1938, Demokratins Problem 1939, Ordens Makt 1944, Människan i industrisamhället 1952, 1955, The Nature of Social Reality 1966, Gesellschaftliche Herrschaft als soziologisches Konzept 1968, Den Akademiska Friheten I-III 1971-76. *Address:* P.O. Box 115, 75104 Uppsala, Sweden.

SEGHERS, Anna (pseudonym of Netty Radvanyi, née Reiling); German author; b. 19 Nov. 1900, Mainz; mem. Akad. der Künste der D.D.R.; Pres. German Writers' Assen.; Dr. h.c. (Jena); Kleist Prize 1928; Nat. Prize 1951, 1959, 1971; mem. Lenin Peace Prize Cttee.; Lenin Peace Prize 1951, Vaterländischer Verienstorden in Silver and Gold and other decorations. *Publications:* Der Aufstand der Fischer von Sankt Barbara 1928, Die Gefährten 1932, Das siebte Kreus 1942, Transit 1948, Die Toten bleiben jung 1949, Der Mann und sein Name 1952, Der Bienenstock 1953, Brot und Salz 1958, Die Entscheidung (novel) 1959, Das Licht auf dem Galgen (story) 1961, Karibische Geschichten (stories) 1962, Über Tolstoi—Über Dostojewski (essays) 1963, Die Kraft der Schwachen (novel) 1965, Das wirkliche Blau (stories) 1967, Das Vertraune (novel) 1968, Sonderbare Begegnungen (stories), Überfahrt 1971. *Address:* Aufbau Verlag, Französischestrasse 32, 108 Berlin, German Democratic Republic.

SEGHERS, Pierre, D. ÈS L.; French writer, poet and literary editor; b. 5 Jan. 1906, Paris; s. of Charles and Marthe (Lebbe) Seghers; m. Colette Peugniez 1968; one d.; also one s. one d. (by previous marriage); ed. Coll. de Carpentras (Vaucluse) and Univ. of Paris; while serving with army (1939) founded magazine Poètes Casqués published yearly as Poésie 1940, 1941, etc. until 1948 active in production and distribution of clandestine publications 1940-44, founder mem. Comité National des Ecrivains early collaborator on Parisien libéré; founded Autour du monde (anthology of foreign poets) 1952; two films with Félix Labisse (*q.v.*), television and radio productions; Officier de la Légion d'honneur, Officier de l'Ordre de Léopold, Officer of the Order of the Southern Cross (Brazil); Officier des Arts et des Lettres; Prix Apollinaire 1958, Aigle d'or de la poésie 1971, Grand Prix Int. Christo Botev (Sofia) 1976, Grand Prix du Disque 1976. *Publications:* Bonne espérance 1939, L'homme du commun, ou Jean Dubuffet 1944, Le domaine public 1945, Le futur antérieur 1947, Poèmes choisis 1952, Le coeur-volant 1954, Racines 1957, Les pierres 1958 , Chansons et complaintes (4 vols.) 1959-70, Piranèse 1960, Le livre d'or de la poésie française 1962, Dialogues 1967, Les mots couverts 1970, Clavé 1972, Les poètes maudits 1972, Dis-moi ma vie 1973, La résistance et ses poètes 1974, Le mur de son 1976, Au seuil de l'oubli 1976, Le jardin des roses (trans.) 1977, Le temps des merveilles (complete poetry collection) 1978, Hâfiz, le divân 1978. *Address:* 228 boulevard Raspail, 75014 Paris, France. *Telephone:* 320-28-88.

SEGOVIA, Andrés; Spanish guitarist; b. 18 Feb. 1894, Linares; m. Emilia Segovia; two s. concerts throughout the world 1914-; has taught at Santiago de Compostela and Acad. Chigi, Siena; has adapted works of Bach, Haydn, Mozart and other composers for the guitar; mem. Real Academia de Bellas Artes de San Fernando 1978-; Hon. D.Mus. (Oxon). 1972; Gold Medal for Meritorious Work (Spain). *Publications:* Segovia: an Autobiography of the Years 1893-1920. *Address:* c/o Ibbs and Tillett Ltd., 124 Wigmore Street, London, W.1. England.

SEGRÈ, Emilio, PH.D.; American physicist; b. 1. Feb. 1905, Tivoli, Rome, Italy; s. of Giuseppe and Amelia (Treves) Segrè; m. 1st Elfriede Spiro 1936 (deceased), one s. two d.; m. 2nd Rosa Mines 1972; ed. Univ of Rome; Asst. Prof. Univ. of Rome 1928-35; Prof. of Physics and Dir. Physics Laboratory Palermo Univ. 1936-38; Research Asst. and Lecturer Univ. of Calif., Berkeley 1938-42; Group Leader Los Alamos Scientific Laboratory 1942-46; naturalized U.S. citizen 1944; Prof. of Physics Univ. of Calif., Berkeley 1946-, Emeritus 1972; Prof. of Physics, Univ. of Rome 1974-75; mem. Nat. Acad. of Sciences, American Philosophical Soc., Accad. dei Lincei, Heidelberg Acad. of Sciences, American Acad. of Arts and Sciences, Indian Acad. of Sciences, etc.; Rockefeller Fellow 1931; Fulbright Fellow 1953; Guggenheim Fellow 1958; Hoffman Medal (German Chemical Soc.), Cannizzaro Medal (Accad. dei

Lincei), Nobel Prize in Physics (with Owen Chamberlain) 1959; Hon. D.Sc. Palermo Univ., Gustavus Adolphus Coll., S. Marcos Univ., Lima, Tel Aviv Univ.,745 etc.; Grand Ufficiale al Merito della Republicà (Italy); co-discoverer of the elements Technetium Astatine and Plutonium, of the slow neutrons and the anti-proton. *Publications:* Numerous papers on atomic and nuclear physics in Physical Review, Proceedings of the Royal Society (London), Nature, Nuovo Cimento; books: Nuclei and Particles, Enrico Fermi physicist, Personaggi e Scoperte nella Fisica contemporanea, etc. *Leisure interests:* hiking, fishing. *Address:* Department of Physics, University of California, Berkeley, Calif. 94720; 3802 Quail Ridge Road, Lafayette, Calif. 94549, U.S.A. (Home). *Telephone:* (415) 254-5231.

SEGUY, Georges; French trade unionist; b. 16 March 1927; three c. apprentice typographer 1942; mem. French C.P. 1942-; arrested by Gestapo and deported to Mauthausen Concentration Camp 1944; electrician, S.N.C.F. (French Railways) 1945; Sec. of Fédération C.G.T. des Cheminots 1949-65, Sec. of C.G.T. 1965-67; Sec.-Gen. of Confédération Générale du Travail (C.G.T.) 1967; mem. Leadership Cttee. Parti Communiste Français. *Publications:* Le mai de la C.G.T., Lutter (autobiographical). *Address:* Confédération Générale du Travail, 213 rue Lafayette, 75480 Paris Cedex 10, France. *Telephone:* 200-33-31 (Office).

SEHGAL, Amar Nath, B.SC., M.A.; Indian sculptor; b. 5 Feb. 1922, Campbellpur, West Pakistan; s. of Ram Asra Mal and Parmeshwari Devi; m. Shukla Dhawan 1954; two s.; ed. Punjab Univ., Govt. Coll., Lahore, and New York Univ.; one-man exhbns. New York 1950-51, Paris 1952, East Africa and India; Hon. Art Consultant to Ministry of Community Devt., Govt. of India 1955-66; organized sculpture exhbns. in Belgrade 1964, Musée d'Art Moderne, Paris 1965, Paulskirche Frankfurt 1965, Haus am Lutzoplatz West Berlin 1966, Musées Royaux D'Art et Histoire, Brussels 1966, Musée Etat Luxembourg 1966, Wiener Secession, Vienna 1966, Flemish Acad. Arts 1967, Tokyo Int. Fair 1973, etc.; retrospective exhbn. Nat. Gallery of Modern Art, New Delhi 1972, City Hall, Ottawa 1975, Aerogolf, Luxembourg 1975, India House, New York 1976, Rathaus, Fransheim, Fed. Repub. of Germany 1977; participated in Sculpture Biennale, Musée Rodin, Paris 1966 and UNESCO Conf. on role of art in contemporary soc. 1974; Sculpture Award, Lalit Kala Acad. 1957; President's Award, Lalit Kala Acad. 1958 (donated to Prime Minister Nehru during Chinese invasion). *Major works:* Voice of Africa (Ghana) 1959, A Cricketer 1961, Mahatma Gandhi, Amritsar, To Space Unknown (bronze; Moscow) 1963; commissioned to decorate Vigyan Bhawan (India's Int. Conferences Building) with bronze sculptural mural depicting rural life of India; bronze work Conquest of the Moon, White House Collection 1969; Anguished Cries (bronze) monument, W. Berlin 1971; Gandhi monument, Luxembourg 1971; Monument to Aviation, New Delhi Airport, 1972; works in Jerusalem, Vienna, Paris, West Berlin, Antwerp, Luxembourg, Connecticut, New Delhi. *Publications:* Arts and Aesthetics, Organising Exhibitions in Rural Areas, Der Innere Rhythmus (poems) 1975. *Leisure interests:* writing poetry, photography. *Address:* J-23 Jangpura Extension, New Delhi 14, India. *Telephone:* 79206

SEIBERT, Donald Vincent; American retail executive; b. 17 Aug. 1923, Hamilton, Ohio; s. of Carl F. Seibert and Minnie L. Wells; m. Verna S. Stone 1944; one s. two d.; ed. Univ. of Cincinnati; joined J. C. Penney Co. Inc. as shoe salesman 1947, Store Man. 1957, District Man. 1959, Dir. of Planning and Research 1963, of Catalogue Operations 1964, of Int. Operations 1972, of Corporate Planning and Devt. 1973, Chair. and Chief Exec. Officer 1974-; Dir. Continental Can Co. Inc. 1975-, Citicorp, Sperry Rand Corpn.; Chair. Board of Trustees, Nyack Coll. 1972; Hon. LL.D., Hon. D.C.S.; William Howard Taft Award, Univ. of Cincinnati 1975. *Leisure interests:* music, art, reading, tennis. *Address:* J.C. Penney Co., Inc., 1301 Avenue of the Americas, New York, N.Y. 10019; Murray Hill, N.J., U.S.A. (Home). *Telephone:* (212) 957-5753 (Office).

SEIDENFADEN, Erik; Danish writer and college warden; b. 24 April 1910, Hasle; s. of Aage Seidenfaden and Annalise Teilmann Harck; m. 1st Jytte Kaastrup Olsen 1935 (dissolved), 2nd Lone Knutson 1953 (died 1978); one s. two d.; university education; with Nationaltidende, Copenhagen 1931-34; London corresp. of Berlingske Tidende 1935-37; city editor of Politiken 1937, Rome corresp. 1940; during German occupation of Denmark was head of Free Danish information services in Stockholm; Editor-in-Chief of independent daily Information and monthly review of foreign affairs Fremtiden 1946-66; Warden Danish Students' Coll., La Cité Int. de l'Université, Paris 1966-; contributor on foreign affairs to Scandinavian, English and American newspapers and periodicals; Diplomatic Columnist Berlingske Tidende 1967-; Copenhagen Corresp. The Times, London; mem. Council of the Inst. for Strategic Studies, London 1966-76; Pres. Students Assen., Copenhagen Univ. 1964-65; mem. Conseil d'Administration and Asst. Del.-Gen. de la Cité Int. de l'Université de Paris 1970-75; mem. Trilateral Comm. 1976; Hon. M.B.E. (U.K.); Knight of Dannebrog (Denmark). *Publications:* Borgerkrig i Spanien (Civil War in Spain) 1936, Hitler beskyddar Danmark (Hitler Protects Denmark) 1943 (published in Stockholm), Spidser 1948, Den hellige krig om det hellige land 1956, Nuclear Arms and Foreign Policy 1960, Disengagement 1961, Disarmament 1962, Nato and Denmark 1968, The Roads Towards Europe 1970. *Address:* La Fondation Danoise, 9 boulevard Jourdan, Paris 14e, France. *Telephone:* 589-2947.

SEIDENFADEN, Gunnar, D.PH. & SC.; Danish scientist and diplomatist; b. 24 Feb. 1908, Varde; s. of Aage Seidenfaden and Annalise Teilmann Harck; m. Alix Arnstedt 1939; one s. four d.; ed. Copenhagen Univ.; expeditions to Greenland 1928-34, Thailand 1934-35, Spitzbergen 1938; U.S.A., Canada, Alaska 1947-49, South America 1950, Far East 1955-57, China and Japan 1958, Thailand 1964-78; Danish Foreign Service 1940-73, Washington 1945-50, Ministry of Foreign Affairs, Copenhagen 1950-55, Amb. S.E. Asia 1955-59, to U.S.S.R. 1959-61; Deputy Under-Sec. of State 1961-67; Chair. Nat. Security Cttee. 1968-70; Amb. for Environment Problems 1970-78; mem. Royal Danish Acad. of Sciences and Letters; Danish and foreign awards. *Publications:* Modern Arctic Exploration 1938, The Orchids of Thailand (with Tem Smitinand) 1959-65. *Leisure interest:* East-Asiatic orchids. *Address:* Borsholmgård pr. 3100 Hornbak, Denmark. *Telephone:* 03240106.

SEIDLER, Harry, O.B.E., M.ARCH.; Australian architect; b. 25 June 1923, Vienna, Austria; s. of Max and Rose Weidler; m. Penelope Evatt 1958; one s. one d.; ed. Wasagymnasium, Vienna, Austria, Cambridge Technical School, U.K., Univ. of Manitoba, Canada, Harvard Univ. and Black Mountain Coll., U.S.A.; postgraduate work under Walter Gropius, Harvard Univ. 1946; study with painter Josef Albers, Black Mountain Coll. 1946; Chief Asst. with Marcel Breuer, New York 1946-48; Principal Architect, Harry Seidler and Assocs., Sydney, Australia 1948-; Sir John Sulman Medal 1951; Architecture and Arts Building of the Year Award 1960. *Major Works:* flats and housing units in Australia, urban redevelopment projects for McMahons Point 1957, city centre redevelopment "Australia Square", Sydney 1962-66; Commonwealth Trade Office Complex, Canberra 1970-72; High Rise Apartments, Acapulco 1970; M.L.C. Center, Martin Place, Sydney 1972-75; Conzinc Rio Tinto H.Q. Melbourne 1972-75; Australian Embassy, Paris 1974-76; Hon. Fellow, American Inst. of Architects 1966; Hon. Fellow, Royal Australian Inst. of Architects; Wilkinson Award 1965, 1966, 1967; Sir John Sulman Medal 1967, Civic Design Award 1967, Pan Pacific Citation of the American Inst. of Architects 1968, R.A.I.A. Gold Medal 1976. *Publications:* Houses, Interiors and Projects 1949-1954, Harry Seidler 1955-63, Architecture in the New World. *Address:* 2 Glen Street, Milsons Point, New South Wales 2061 (Office); 13 Kalang Avenue, Killara, N.S.W. 2071, Australia (Home). *Telephone:* 9221388 (Office); 4985986 (Home).

SEIFERT, Jaroslav; Czechoslovak poet; b. 23 Sept. 1901, Prague; m. Marie Ulrichová 1928; one s. one d.; ed. secondary school, Prague; writer and journalist for various Prague dailies and periodicals; Co-founder Devětsil Art Assen. 1920; Editor Rovnost, Brno 1922, Sršatec (periodical) 1922-25; Editor in Chief Nová scéna (theatre monthly) 1930; Editor Pestré Květy (weekly) 1931-33, Ranní noviny (daily) 1933-39, Nádrodní práce 1939-45, Práce (daily) 1945-49; State Prizes 1936, 1955, 1968; Acting Chair. Union of Czechoslovak Writers 1968-69, Chair. 1969-70; Nat. Artist 1966. *Publications:* include: Ruce Venušiny (Venus' Hands—State Prize) 1936, Maminka (Mother—State Prize) 1954, Koncert na ostrově (Concert at the Island—State Prize) 1968, Odlévání zvonů, Halleyova kometa, Světlem oděná, Mozart in Prague (publ. in English, French and German) 1970, Morový sloup (Pests Column) 1978, Deśník z Piccadilly (Umbrella from Piccadilly) 1978, Všechny krásy světa (All Beauty of the World) 1978, etc. *Leisure interest:* botany. *Address:* Břevnov U Ladronky 23/1338, Prague 6, Czechoslovakia. *Telephone:* 35-78-71.

SEIFERT, Robin (Richard), J.P., F.R.I.B.A., DIP.ARCH.; British architect; b. 25 Nov. 1910, Switzerland; s. of William Seifert; m. Josephine Jeannette Harding 1939; two s. one d.; ed. Central Foundation School, London and Univ. Coll., London; commenced architectural practice 1934; Corps of Royal Engineers 1940-44; Indian Army 1944-46; Hon. Lt.-Col. 1946; private practice 1948-; Principal of R. Seifert and Partners; Liveryman, City of London; fmr. mem. British Waterways Board 1971-74, Home Office Cttee. of Management for Homeless Discharged Prisoners; fmr. mem. Council R.I.B.A. 1971-74. *Principal works include:* Centre Point, St. Giles Circus; Drapers Gardens; Nat. Provincial Bank H.Q.;

Royal Garden Hotel, Kensington; Tolworth Towers, Surbiton; Woolworth House, Marylebone Rd.; I.C.T.H.Q., Putney; Kellogg House, Baker Street, The Times Newspaper Bldg., Printing House Square, Guiness Mahon Bank, Gracechurch Street, Dunlop House, King Street, St. James's, B.S.C. Research Labs., Middlesbrough, Britannia Hotel, Park Tower Hotel, London, Heathrow Hotel, Sobell Sports Centre, A.T.V. Centre Birmingham, Int. Press Centre, Metropolitan Police H.Q., Putney, Wembley Conference Centre, Princess Grace Hospital, Marylebone Road, Euston Square Station. *Leisure interests:* chess, violin. *Address:* R. Seifert and Partners, 34 Red Lion Square, London, W.C.1; Eleventrees, Milespit Hill, Mill Hill, London, N.W.7, England (Home). *Telephone:* 01-242-1644 (Office); 01-959 3397 (Home).

SEIGNER, Louis; French actor, b. 23 June 1903; ed. Lycée de Lyon and Conservatoires d'Art dramatique de Lyon et de Paris; actor, Théâtre des Celestins, Lyon 1919-23, Théâtre de l'Odéon, Paris 1923-39; Pensionnaire, Comédie Française 1939-43, Sociétaire 1943, Doyen 1960, Hon. Sociétaire 1971; Prof. Conservatoire National d'Art Dramatique 1962-; Officier Légion d'honneur, Commdr. des Arts et des Lettres. *Plays acted in include:* Le Roi soleil, Madame Sans-Gêne, Cyrano de Bergerac, Pelléas et Mélisande, Le Chevalier Canepin, Le Dindon. *Films acted in include:* La Symphonie fantastique, Nous sommes tous des assassins, La belle Otéro, Marguerite de la nuit, Le bourgeois gentilhomme, La vérité, L'eclipse, Les amitiés particulières, Le soleil noir, Prêtres interdits, La race des seigneurs, Section speciale. *Address:* 12 rue Pierre-Curie, Paris 5e, France.

SEIP, Heige Lunde; Norwegian journalist and politician; b. 5 March 1919, Surnadal; s. of Torkel Arup S. Seip and Helga Lunde; m. Therese Holth 1943; three d.; ed. Oslo, Harvard (U.S.A.) and Cambridge (England) Univs.; Asst. Oslo Univ. 1939; Statistical Sec. Norwegian Leather Board 1941; Consultant Rieber A/S 1942, Ministry of Finance 1945; Div. Head Ministry of Commerce 1948, Chief Division, Central Bureau of Statistics, Oslo 1952-; Chief Political Editor Dagbladet (Oslo daily) 1954, Editor-in-Chief 1954-65; mem. Norwegian Parliament 1953-61 and 1965-73; mem. Nordic Cultural Comm. 1955-61, Nordic Council 1958-62, 1971-73; Minister of Labour and Local Affairs 1965-71; Chair. Liberal Party 1971-73; Sec.-Gen. Nordic Council 1973-77; Chief Editor Norwegian Journal of Commerce and Shipping 1977-. *Publications:* Kommunenes Ökonomi 1949. *Leisure interests:* fishing, travelling, stamp collecting. *Address:* Gl. Drammensveg 146, Blommenholm, Norway.

SEITZ, Frederick, A.B., PH.D.; American physicist; b. 4 July 1911, San Francisco; s. of Frederick and Emily Seitz; m. Elizabeth K. Marshall 1935; ed. Stanford and Princeton Univs.; Instructor of Physics, Univ. of Rochester 1935-36, Asst. Prof. 1936-37; on staff of Research Laboratory of Gen. Electric Co. 1937-39; Asst. Prof., Univ. of Pa. 1939-41; Assoc. Prof. 1941-42, Prof. and Head of Dept. of Physics, Carnegie Inst. of Technology 1942-49; Prof. Physics Univ. of Ill. 1949-57, Head of Dept. 1957-64, Dean Graduate Coll. and Vice-Pres. of Research 1964-65; NATO Science Adviser 1959-60; mem. American Philosophical Soc., Full-time Pres. Nat. Acad. of Sciences 1962-69, American Physics Soc. 1961; Pres. Rockefeller Univ. 1968-; mem. numerous advisory cttees., incl. Advisory Group on Anticipated Advances in Science and Tech. (White House) 1975-, Nat. Aeronautics and Space Admin. (SPAC) 1973- (Chair. 1976-77), Nat. Cancer Advisory Board 1976-; Chair. of Board, John Simon Guggenheim Foundation 1976-; Dir. Ogden Corpn. 1977-; mem. American Acad. of Arts and Sciences; mem. Board of Trustees, Rockefeller Univ., Univ. Corpn. for Atmospheric Research (UCAR) 1975-, American Museum of Natural History 1975-; Nat. Medal of Science 1973-; several hon. degrees. *Publications:* The Modern Theory of Solids 1940, The Physics of Metals 1943, Solid State Physics 1955. *Address:* Rockefeller University, 66th Street and York Avenue, New York, N.Y. 10021, U.S.A. *Telephone:* (212) 360-1234.

SEKYI, Henry Van Hien, B.A.; Ghanaian diplomatist; b. 15 Jan. 1928; m. Maria Joyce Tachie-Menson 1958; one s. one d.; ed. Univ. Coll. of the Gold Coast (now Univ. of Ghana), King's Coll., Cambridge Univ. and London School of Econs.; entered Foreign Service 1957; successively Third Sec., Second Sec. and First Sec., Ghana Embassy, Washington 1958-61; First Sec. and later Counsellor, Ghana Embassy, Rome 1962; Ministry of Foreign Affairs, Dir. divs. of Eastern Europe and China, Middle East and Asia, UN Affairs, Personnel and Admin. 1962-65; Acting Principal Sec. 1965; Ghana High Commr. to Australia 1966-70; Amb. to Italy 1970-72; High Commr. to U.K. 1972-75; Supervising Dir. of the Political Dept., Ministry of Foreign Affairs, 1975-76, Senior Principal Sec. July 1976-. *Leisure interests:* classics, music, Africana, gymnastics. *Address:* c/o Ministry of Foreign Affairs, Accra, Ghana.

SELA, Michael (Salomonowicz), M.SC., PH.D.; Israeli chemist and immunologist; b. 6 March 1924, Tomaszow, Poland; s. of Jakob and Roza Salomonowicz; m. 1st Margalit Liebman 1948 (died 1975), three d.; m. 2nd Sara Kika 1976; ed. Hebrew Univ., Jerusalem and Geneva Univ.; joined Weizmann Inst. of Science 1950, Head Dept. of Chemical Immunology 1962-75, Vice-Pres. 1970-71, Dean Faculty of Biology 1970-73, mem. Board of Govs. 1970, Pres. 1975; W. Garfield Weston Prof. of Immunology; Visiting Scientist, Nat. Insts. of Health, Bethesda 1956-57, 1960-61; Visiting Prof. Molecular Biology, Univ. of California, Berkeley 1967-68; Fogarty Scholar-in-Residence, Fogarty Int. Center, Bethesda, Md. 1973-74; mem. WHO Expert Advisory Panel of Immunology 1962-, Int. Cell Research Org. 1965-; mem. Council, Int. Union of Pure and Applied Biophysics 1972-; Chair. Council, European Molecular Biology Org. 1975-; Pres. Int. Union Immunological Socs. 1977-; Founder mem. Acad. of Sciences at Philadelphia 1978; Chair. Scientific Advisory Cttee. European Molecular Lab. Heidelberg 1978-; mem. Comité de Direction Inst. de Recherches Scientifiques sur le Cancer (France) 1977-, Scientific and Tech. Advisory Cttee. UNDP, WHO Advisory Cttee on Medical Research 1979-; mem. of Council and Hon. Vice-Chair Yad Chaim Weizmann, Rehovot 1977-; mem. other int. bodies; serves on many editorial boards, including European Journal of Immunology, European Journal of Biochemistry, and Immunogenetics; mem. Israel Acad. of Sciences and Humanities 1971, Pontifical Acad. of Science 1975; Hon. Mem. American Soc. Biological Chemists 1968, American Assn. of Immunologists 1973, Scandinavian Soc. for Immunology 1971, Harvey Soc. 1972; Foreign mem. Max-Planck Soc., Freiburg 1967; Foreign Assoc. U.S. Nat. Acad. of Sciences 1976; Foreign Hon. mem. American Acad. Arts and Sciences 1971; awarded Nat. Insts. of Health Lectureship 1973; Israel Prize Natural Sciences 1959, Rothschild Prize for Chem. 1968, Otto Warburg Medal, German Soc. of Biological Chem. 1968, Emil von Behring Prize, Phillipps Univ. 1973. *Publications:* over 400 in immunology, biochemistry and molecular biology; Editor The Antigens (4 vols. published). *Address:* Weizmann Institute of Science, Rehovot, Israel. *Telephone:* 054-82111.

SELECMAN, Charles E.; American business executive; b. 17 Sept. 1928, Dallas, Tex.; m.; three d.; ed. Southern Methodist Univ.; fmrly. employed by Gen. Motors Corpn. and Chance Vought Aircraft; Divisional Personnel Man., Axelson Div., U.S. Industries Inc. 1956, Exec. Vice-Pres., Axelson Div. 1966; Vice-Pres. U.S. Industries Inc. 1967, Exec. Vice-Pres. and Dir. 1968, Pres. 1970-73, Vice-Chair. and Chief Exec. 1973-74; owner Charles E. Selecman and Assocs. 1974-75; Pres., Chief Exec. Officer E. T. Barwick Industries Inc. 1975-. *Address:* 5775-C Peachtree, Dunwoody Road, N.E. Atlanta, Ga. 30342 (Office); 470 W. Paces Ferry Road, N.W. Atlanta, Ga. 30305 U.S.A. (Home).

SELEM, Kam; Nigerian police officer; b. 1924, Dikwa, North-Eastern State; s. of Mallam Bashir; m. Amne Shettima 1953; three s. three d.; ed. Dikwa Elementary School and Bornu Secondary School; enlisted in Nigeria Police Force April 1942; trained at Police Coll., Kaduna; Detective, Kano until 1950; Sub-Insp. of Police 1950-53; Asst. Supt. 1953-55; Deputy Supt. 1955-59; attended Officers' Course, Ryton-on-Dunsmore, U.K. 1956; Supt. of Police 1959-60; Chief Supt. 1960-61; Asst. Commr. of Police 1961-62; Deputy Commr. March-Sept. 1962; Commr. of Police in command of Northern Region 1962-65; Deputy Insp.-Gen. 1965-66; Insp.-Gen. 1966-75; mem. Supreme Mil. Council and Fed. Exec. Council 1966-75; mem. Constituent Assembly 1977-; Fed. Commr., Internal Affairs 1967-75; Pres. Nigeria Branch of Int. Police Assn.; mem. Int. Assn. of Chiefs of Police; Defence Medal; Colonial Police Meritorious Service Medal; Queen's Police Medal for distinguished service; Nigerian Independence Medal; Nigeria Police Medal for Long Service; Commdr. Order of St. John. *Leisure interests:* lawn tennis, hunting, swimming, farming, golf. *Address:* c/o Force Headquarters, The Nigeria Police, Moloney Street, Lagos, Nigeria.

SELIGMAN, Henry, O.B.E., PH.D.; British scientist; b. 25 Feb. 1909, Frankfurt-am-Main, Germany; s. of Milton Chase Seligman and Marie Gans; m. Lesley Bradley 1941; two s.; ed. Liebigschule, Frankfurt-am-Main, Univs. of Lausanne, Paris and Zürich; joined Atomic Energy Team, Cavendish Laboratory, Cambridge 1941; worked on atomic research with N.R.C., Canada 1943-46; founded Isotope Div., Harwell 1947, Deputy Dir.-Gen. of Research and Isotopes at the Int. Atomic Energy Agency, Vienna 1958-69, Scientific Adviser 1969-; Pres. Joint Cttee. on Applied Radioactivity, Int. Council of Scientific Unions (ICSU) 1957-69; Pres. and Dir. EXEC AG, Basel 1974-; Cultural Medal of Monaco. *Leisure interests:* skiing, music, modern art. *Address:* Scherpegasse 8/VI/3, 1190 Vienna, Austria. *Telephone:* 323225.

SELKIRK, 10th Earl of; **George Nigel Douglas-Hamilton,** P.C., G.C.M.G., G.B.E., A.F.C., Q.C.; Scottish advocate and politician; b. 4

Jan. 1906, Dorset; m. Darell Sale Barker 1949; ed. Eton, Balliol Coll., Oxford, and Univs. of Edinburgh, Bonn, Vienna and Paris; admitted to Faculty of Advocates 1934; commanded 603 Squadron A.A.F. 1934-38; mem. Edinburgh Town Council 1935-40; Commr. for Gen. Board of Control (Scotland) 1936-39 and for Special Areas (Scotland) 1937-39; served R.A.F. 1939-45; elected Scots Rep. Peer 1945-63; served successively in Churchill, Eden and Macmillan govts. 1951-60; Paymaster Gen. 1953-55; Chancellor of the Duchy of Lancaster 1955-57; First Lord of the Admiralty 1957-59; U.K. Commr. for Singapore and Commr.-Gen. for S.E. Asia, Singapore 1959-63; U.K. Council Rep. to South-East Asia Treaty Org. 1960-63; Chair. Conservative Commonwealth Council 1965-72, Victoria League 1971-77; Pres. Building Socs. Assn., Nat. Ski Fed. of Great Britain 1964-68, Royal Soc. for Asian Affairs 1965-76; Freeman of Hamilton 1937. *Address:* 60 Eaton Place, London, S.W.1, England. *Telephone:* 01-235-6926.

SELLERS, Peter Richard Henry, C.B.E.; British actor; b. 8 Sept. 1925; m. 1st Anne Howe 1951 (divorced 1964), one s. one d.; m. 2nd Britt Ekland 1964 (divorced 1969), one d.; m. 3rd Miranda Quarry 1970 (divorced 1974); m. 4th Lynn Frederick 1977; ed. St. Aloysius Coll., Highgate; debut at Windmill Theatre 1948; toured 1949-54; radio shows include Ray's ■ Laugh, The Goon Show; television shows Idiots Weekly, A Show Called Fred, Son of Fred; films The Ladykillers, The Smallest Show on Earth, The Naked Truth, Tom Thumb, Carleton Browne of the F.O., The Mouse that Roared, I'm Alright Jack, Up the Creek, Two Way Stretch, Battle of the Sexes, Never Let Go, The Millionairess, Mr. Topaze, The Running, Jumping and Standing Still Film, Only Two Can Play, The Waltz of the Toreadors, Lolita, The Wrong Arm of the Law, Heavens Above!, Dr. Strangelove, The Pink Panther, The World of Henry Orient, What's New, Pussycat?, A Shot in the Dark, After the Fox, Casino Royale, The Bobo, The Party, I Love You Alice B. Toklas, The Magic Christian, A Day at the Beach, Hoffman, There's A Girl in My Soup, Where Does it Hurt?, Alice's Adventures in Wonderland, The Blockhouse, The Optimists of Nine Elms, Soft Beds and Hard Battles, The Great McGonagall, Ghost in the Noonday Sun, The Return of the Pink Panther, Murder by Death, The Pink Panther Strikes Again, The Revenge of the Pink Panther, Being There; British Film Acad. Award 1959, Golden Gate Trophy 1959, San Sebastian 1962, Award for Best Actor, Iran Film Festival 1973, Evening News Best Actor 1976. *Address:* c/o Barclays Bank Ltd., 119 Waterloo Road, London, S.E.1, England.

SELLERS, Robert Vernon; American business executive; b. 26 March 1927, Bartlesville, Okla.; s. of C. Vernon and Helen (Weeks) Sellers; m. Anna Marie Hughes 1950; two s. two d.; ed. Univ. of Kansas; joined Cities Service Oil Co. 1951; Man. Planning and Devt. Dept., Cities Service Co. 1963-66, Staff Vice-Pres. (Corporate Planning Dept.) 1966-68, Asst. Treas. 1968, Treas. 1968-69, Vice-Pres. 1969-71, Dir. and mem. Exec. Cttee. 1969-, Vice-Chair. 1971-72, Chair. of Board, Chief Exec. Officer and Chair. Exec. Cttee. 1972-, Chair. Financce Cttee. 1973-; Dir. John Hancock Mutual Life Insurance Co., Metropolitan Tulsa Chamber of Commerce, Southern Growth Policies Board; Dir. and mem. Exec. Cttee., American Petroleum Inst.; Nat. Advisory Council of Salvation Army, Nat. Petroleum Council, Conf. Board, Univ. of Kansas School of Business Advisory Board; Trustee, Cttee. for Econ. Devt., U.S. Council of Int. Chamber of Commerce, Univ. of Tulsa. *Address:* Cities Service Company, Box 300, Tulsa, Okla. 74102; 2131 East 29th Street, Tulsa, Okla. 74114, U.S.A. (Home).

SELLICK, Phyllis, O.B.E., F.R.A.M.; British concert pianist; b. 16 June 1911, Newbury Park, Essex; m. Cyril Smith 1937 (died 1974); one s. one d.; ed. Glenarm Coll., Ilford, Royal Acad. of Music and in Paris; Prof. Royal Coll. of Music, London; Hon. F.R.C.M. *Leisure interests:* gardening, cooking, yoga. *Address:* 33 Fife Road, London, SW14 7EJ, England.

SELLIN, (Johan) Thorsten, A.M., PH.D., LL.D.; American sociologist; b. 26 Oct. 1896, Örnsköldsvik, Sweden; s. of Jonas and Martha Westmans; m. Amy J. Anderson 1920; three s.; ed. primary and secondary schools in Sweden, Augustana Coll., Rock Island, Illinois and Univs. of Pennsylvania, Minnesota and Paris; Asst. Prof., Univ. of Pa. 22-30, Prof. of Sociology 1930-67, Emeritus Prof. 1967-; Lecturer, Columbia Univ. 1935-46; Visiting Prof. Univs. of Uppsala, Stockholm and Lund 1946-47, Princeton Univ. 1949, Univ. of Calif 1958, Queen's Coll., New York 1968-69; Fulbright Lecturer, Cambridge Univ. 1959-60; Sec.-Gen. Int. Penal and Penitentiary Comm. 1950-51, 12th Int. Penal and Penitentiary Congress 1950; Consultant, Swedish Penal Code Comm. 1946-47, American Law Inst. Youth Correction and Model Penal Code projects; Official, UN Comms. of Experts on Prevention of Crime and Treatment of Offenders 1949-56; Pres. Int. Soc. of Criminology 1956-66, Int. Penal and Penitentiary Foundation 1965-71; Pres. Fourth Int. Congress of Criminology 1960 (Hon. Pres. Fifth Congress 1965); Gen. Rapporteur First UN World Congress on Prevention of Crime and Treatment of Offenders; Editor Annals of the American Acad. of Political and Social Science 1929-68; mem. American Philosophical Soc., Social Science Research Council, Royal Soc. of Humanistic Knowledge (Lund), History of Law Soc. (Paris), Mexican Acad. of Penal Sciences; Grand Officer Order of North Star (Sweden); Penitentiary Medal (France); Gold Medal German Criminological Soc.; Hon. Dr. (Augustana Coll. and Univs. of Uppsala, Pennsylvania, Copenhagen, Leiden and Brussels). *Publications:* Crime in the Depression 1937, Culture Conflict and Crime 1938, The Criminality of Youth 1940, Pioneering in Penology 1944, The Death Penalty 1959, The Measurement of Delinquency (co-author) 1964, Delinquency in ■ Birth Cohort (co-author) 1972, Slavery and the Penal System 1976; Editor: Capital Punishment 1967. *Address:* Gilmanton, N.H. 03237, U.S.A. *Telephone:* 1-603-267-6309.

SELLNER, Gustav Rudolf; German theatre director; b. 25 May 1905, Traunstein, Upper Bavaria; s. of Gustav and Frieda (Elliesen) Sellner; m. Ilse Pässler 1951; one s. one d.; ed. Gymnasium, Univ. of Munich, and drama training at Kammerspiele, Munich. Actor, Producer, Stage Dir. and Dir., Oldenburg, Göttingen, Hanover 1924-38; Producer at Kiel, Essen and Hamburg 1945-51; Dir. Hessisches Landestheater, Darmstadt 1951-72, Deutsche Oper, Berlin 1961-72; Pres. Int. Richard-Strauss-Gesellschaft 1967-; numerous awards and prizes. *First performances include:* Alkmene (Giselher Klebe) Berlin 1961, Dir Orestie (Darius Milhaud) Berlin 1963, Montezuma (Roger Sessions) Berlin 1964, Der Junge Lord (Hans Werner Henze) Berlin 1965, Die Bassariden (Henze) Salzburg 1966, Zwischenfälle bei einer Notlandung (Boris Blacher) Hamburg 1966, Prometheus (Carl Orff) Stuttgart 1968, Odysseys (Luigi Dallapiccola) Berlin 1968, 200,000 Taler (Boris Blacher) Berlin 1969, Melusine (Aribert Reimann) Berlin/Schwetzingen 1971; leading part in film The Pedestrian 1973. *Publications:* include Theatralische Landschaft (with Werner Wien) 1962. *Leisure interests:* modern arts, architecture. *Address:* 7741 Koenigsfeld-Burgberg, Prof. Domagkweg 106, Federal Republic of Germany *Telephone:* 07725/7674.

SELMER, Ragnhild Elisabeth Schweigaard; Norwegian judge and politician; b. 18 Oct. 1923, Oslo; d. of Niels Schweigaard and Betty Reimers; m. Prof. Knut S. Selmer; one s. one d.; ed. Univ. of Oslo; Assistant Judge, Municipal Court of Asker and Baerum 1950-55; mem. Oslo City Council 1951-55; Law Section, Ministry of Justice 1955-65; Judge, Court of Probate, Oslo 1965; Minister of Justice 1965-70; Supreme Court Judge 1971-; Conservative. *Leisure interests:* reading, family life. *Address:* Supreme Court of Norway, Oslo, Norway.

SELYE, Hans, PH.D., D.SC., M.D., F.R.S.C.; Canadian university professor; b. 26 Jan. 1907, Vienna, Austria; s. of Dr. Hugo Selye and Maria Felicitas Langbank; m. 2nd Louise Drevet (1978); three s. two d.; ed. Prague, Paris, Rome and McGill Univs.; Asst. in Experimental Pathology at Univ. of Prague 1929-31; Rockefeller Research Fellow in Biochemical Hygiene, Johns Hopkins Univ. 1931; Rockefeller Research Fellow in Biochemistry, McGill Univ. 1932-33, Lecturer 1933-34, Asst. Prof. 1934-37; Asst. Prof. of Histology, McGill Univ. 1937-41, Assoc. Prof. 1941-45; Prof. and Dir. of Institute of Experimental Medicine and Surgery, Univ. of Montreal 1945-76; Prof. Emeritus Univ. of Montreal 1977-; Pres. Int. Inst. of Stress 1976-; Guest Lecturer U.S.A. and Canada 1950-; consultant to Surgeon-Gen., U.S. Army 1947-57; Hon. Prof. Guatemala, Univ. of San Carlos; Fellow, N.Y. Acad. of Sciences and American Assn. for the Advancement of Science, American Geriatrics Soc., Int. Coll. of Surgeons (Hon.), and numerous other North and South American and European Acads. and Socs.; numerous honorary degrees; awards include: Casgrain and Charbonneau prize; Gordon Wilson medal; Heberden Research Medal; Medal of Accad. Medico Fisica of Florence; Semmelweiss Medal (New York), Henderson Gold Medal, American Coll. of Angiology Award 1959, Western Soc. of Periodontology Award 1960, Samuel Charles Miller Memorial Award 1960, B'nai B'rith Humanitarian Award 1961, Prix de l'Oeuvre Scientifique, Assn. médecins langue française de Canada 1974, Queen Elizabeth Silver Jubilee Medal (Canada) 1977; Hon. Citizen of Verona 1955. *Publications:* The Steroids 1943, Ovarian Tumors 1946, Textbook of Endocrinology 1949, Stress 1950, On the Experimental Morphology of the Adrenal Cortex 1950, First Annual Report on Stress 1951, Second Annual Report on Stress 1952, The Story of the Adaptation Syndrome 1952, Third Annual Report on Stress 1953, Fourth Annual Report on Stress 1954, Fifth Annual Report on Stress 1955, The Stress of Life 1956 (2nd edn. 1976), The Chemical Prevention of Cardiac Necroses 1958, The Pluricausal Cardiopathies 1961, Calciphylaxis 1962, From Dream to Discovery 1964, The Mast Cells 1965, Thrombohemorrhagic Phenomena 1966, In Vivo 1967, Anaphylactoid Edema 1968,

Experimental Cardiovascular Diseases 1970, Hormones and Resistance 1971, Stress without Distress 1974, Stress in Health and Disease 1976, The Stress of My Life 1977, Selye's Guide to Stress Research 1979, and over 1,600 scientific papers. *Address:* Institut International du Stress, Université de Montreal, P.O. Box 6128, Montreal; and 659 Milton Street, Montreal, Quebec, Canada. *Telephone:* 343-6378/9.

SEMEGA-JANNEH, Bocar Ousman, M.B.E.; Gambian diplomatist; b. 21 July 1910; s. of late Ousman Semega-Janneh and Koumba Tunkara; m. 1936; several c.; ed. Mohammedan Primary School and Methodist Boys' High School; joined Gambia Surveys Dept. 1931, Senior Surveyor 1948, Dir. 1953-66; mem. Bathurst (now Banjul) City Council 1951-67, Mayor 1965-67; High Commr. to Senegal 1967-71, also accred. as Amb. to Mali, Mauritania, Guinea and Liberia and High Commr. to Sierra Leone 1969-71; High Commr. to U.K. 1971-, also accred. ■ Amb. to Fed. Germany, France, Austria, Sweden, Switzerland, The Vatican, Rome; del. to UN Gen. Assembly and to OAU 1968-; Grand Officer, Order of Merit (Senegal, Mauritania). *Leisure interests:* football, cricket, lawn tennis, golf. *Address:* The Gambia High Commission, 60 Ennismore Gardens, London, S.W.7, England.

SEMENOV (see Semyonov).

SEMICHASTNY, Vladimir Yefimovich; Soviet politician; b. 1924; ed. Kemerovo Chemical Technological Inst.; fmr. First Sec., Communist League of Youth; fmr. senior official, Soviet Communist Party, Moscow; fmr. Sec. Communist Party of Azerbaijan; Chair. State Security Cttee. of Council of Ministers of U.S.S.R. 1961-67; First Vice-Chair. Ukrainian Council of Ministers June 1967-; Cand. mem. Central Ctttee. CPSU 1956-64, mem. 1964-71. *Address:* Council of Ministers of Ukrainian S.S.R., Kiev, U.S.S.R.

SEMKOW, Jerzy (Georg), M.A.(MUS.); Polish conductor; b. 12 Oct. 1928, Radomsko; s. of Alexander and Valerie Sienczak Semkow; ed. Jagiellonian Univ. of Cracow, High School of Music, Cracow and Leningrad Music Conservatoire; Asst. Conductor, Leningrad Philharmonic Orch. 1954-56; Conductor, Bolshoi Opera and Ballet Theatre, Moscow 1956-58; Artistic Dir. and Principal Conductor, Warsaw Nat. Opera 1959-61; Perm. Conductor, Danish Royal Opera, Copenhagen 1966-71; Musical Dir. and Principal Conductor St. Louis Symphony Orchestra 1975-; guest conductor of London Philharmonic, New York Philharmonic, Chicago Symphony, Boston Symphony and many other leading European and American orchestras; engagements at Covent Garden, La Scala, Berlin, Vienna, Madrid, Paris, Rome, etc.; Commdr. Cross of Polonia Restituta. *Leisure interests:* reading, yachting. *Address:* "Propaganda Musicale", Via Sicilia 154, Rome, Italy; c/o W. Hansen Koncertdirektion, Gothersgade 9-11, Copenhagen, Denmark; Ul. Dynasy 6/1, 00-354 Warsaw, Poland. *Telephone:* 11-7888 (Copenhagen); 26-37-82 (Warsaw).

SEMYONOV, Nikolay Nikolayevich, D.SC.; Soviet scientist; b. 15 April 1896, Saratov; ed. Leningrad State Univ.; Asst. Dir. and Laboratory Man. Physico-Technical Inst., Leningrad 1920-30; Asst. Prof. Leningrad Polytechnic Inst. 1928; Dir. Inst. of Chemical Physics, Leningrad 1931-; Prof. Moscow State Univ. 1944-; Deputy to U.S.S.R. Supreme Soviet; mem. CPSU 1947-; mem. U.S.S.R. Acad. of Sciences 1932-, Sec., Chemistry Section, 1957-63, Vice-Pres. 1963-71, mem. Presidium, Academician, Sec. Dept. of Chemical Sciences 1957-; Cand. mem. Cen. Cttee. CPSU 1961-66; mem. Chemical Soc. of England 1943-; Foreign mem. Royal Soc. of England 1958, Hon. mem. Indian Acad. of Sciences 1959; Hon. mem. Hungarian Acad. of Sciences 1961; Hon. life mem. New York Acad. of Sciences 1962; Foreign associate, Nat. Acad. of Sciences, U.S.A. 1963; Hon. mem. Czech. and Romanian Acads. of Sciences 1965; Corresp. mem. German Acad. of Sciences, Berlin; Foreign mem. Bulgarian Acad. of Sciences 1969; mem. American Chem. Soc. 1976; Hon. Fellow Royal Soc. of Edinburgh 1966; Dr. h.c. (Oxford Univ.) 1960, (Brussels Univ.) 1962, (Milan Univ.) 1964, (Univs. of Budapest, Prague and London) 1965, (Humboldt Univ., Berlin) 1975; Order of Lenin (seven); Order of Red Banner of Labour; shared Nobel Prize for Chemistry with Sir Cyril Hinshelwood for discoveries concerning chemical kinetics 1956 (first Soviet citizen to be awarded Nobel Prize); State Prize 1941; Lomonosov Gold Medal (U.S.S.R. Acad. of Sciences) 1969; Hero of Socialist Labour 1966; mem. German Acad. of Naturalists (Leopoldina) 1959. *Publications:* Chain Reactions 1934, Some Problems of Chemical Kinetics and Reactivity 1954 (2nd edn. revised and translated into English 1958), and over 200 articles in the field of chemical physics. *Address:* Institute of Chemical Physics, U.S.S.R. Academy of Sciences, Vorobyevskoe chaussée 2-6, Moscow, U.S.S.R.

SEMYONOV, Vladimir Semyonovich; Soviet diplomatist and politician; b. 16 Feb. 1911, Krasnoslobodskoe, Tambov Region; ed. Moscow Inst. of Philosophy, History and Literature; Counsellor in Kaunas 1939-40, Berlin 1940-41, Stockholm 1942-45; Political Adviser Berlin 1945-53; rank of Minister 1945, of Amb. 1949; High Commr. in Germany 1953-54; Deputy Foreign Minister 1955-; mem. CPSU 1938, Cand. Central Auditing Comm. CPSU 1952-66; Alt. mem. CPSU Central Cttee. 1966-; Head U.S.S.R. Del. to Strategic Arms Limitations Talks (SALT) 1969-; Amb. to Fed. Repub. of Germany 1978-; Order of Lenin (twice), Order of October Revolution and other decorations. *Address:* U.S.S.R. Embassy, Waldstrasse 42, 5300 Bonn, Federal Republic of Germany.

SEN, Amartya Kumar, M.A., PH.D., F.B.A.; Indian economist; b. 3 Nov. 1933, Santiniketan, Bengal; s. of Ashutosh and Amita Sen; m. 1st Nabaneeta Dev 1960 (divorced 1975), two d.; m 2nd Eva Colorni 1978; one s. two d.; ed. Presidency Coll., Calcutta and Trinity Coll., Cambridge; Prof. of Econs., Jadavpur Univ., Calcutta 1956-58; Fellow, Trinity Coll., Cambridge 1957-63; Prof. of Econs., Univ. of Delhi 1963-71, Chair. Dept. of Econs. 1966-68; Hon. Dir. Agricultural Econs. Research Centre, Delhi 1966-68, 1969-71; Prof. of Econs. London School of Econs. 1971-77, Oxford Univ. 1977-; Visiting Prof., Univ. of Calif., Berkeley 1964-65, Harvard Univ. 1968-69; Andrew D. White Prof.-at-Large Cornell Univ 1978-; Fellow, Econometric Soc. Hon. D.Litt. (Univ. of Saskatchewan, Canada) 1979. *Publications:* Choice of Techniques: An Aspect of Planned Economic Development 1960, Growth Economics 1970, Collective Choice and Social Welfare 1970, On Economic Inequality 1973, Employment, Technology and Development 1975; articles in various journals in econs., philosophy and political science. *Address:* Nuffield College, Oxford, OX1 1NF, England. *Telephone:* 0865-48014.

SEN, Dr. Binay Ranjan; Indian diplomatist and international administrator; b. 1 Jan. 1898, Dibrugahr, Assam; s. of the late Dr. K. M. Sen and Mrs. Saudamini Sen; m. Chiroprava Chatterjee 1931; four d.; ed. Calcutta and Oxford Univs.; Dist. Magistrate, Midnapore 1937-40; Revenue Sec., Govt. of Bengal 1940-43, Dir. of Civil Evacuation 1942-43; Relief Commr. 1942-43; Dir.-Gen. of Food, Govt. of India 1943-46, Sec., Dept. of Food 1946-47; Minister in Washington 1947-48; Sec. Ministry of Agriculture 1948; Chargé d'Affaires and Minister in Washington 1948-50; Indian Ambassador to Italy and Yugoslavia 1950-51 and 1952-55, to U.S.A. 1951-52; Ambassador to Japan 1955-56; Dir.-Gen. Food and Agriculture Org. of UN (FAO) 1956-67; several hon. doctorates; Hon. Fellow, St. Catherine's Coll., Oxford; Knight Commdr. of the Ordine Piano; Knight Grand Cross of the Order of Pope S. Silvestri; Padma Vibhusan; decorations from govts. of Morocco, South Korea, Ivory Coast, Chad, Gabon and Lebanon. *Leisure interests:* western music and reading. *Address:* 14/2 Palm Avenue, Calcutta 19, India. *Telephone:* 44-0757.

SEN, Samar, B.A., B.SC.(ECON.); Indian diplomatist; b. 10 Aug. 1914, Dacca (now in Bangladesh); s. of late Surendranath and Charubla Sen; m. Shelia Lall 1950; two s. two d.; ed. Univs. of Calcutta, London and Oxford, and Lincoln's Inn; joined Indian Civil Service 1938; held several posts in Bengal 1939-46; Under-Sec., Dept. of External Affairs; Liaison Officer to UN 1946-48; Deputy Sec., Ministry of External Affairs and Commonwealth Relations; Head of Chancery, High Comm., London 1949; Deputy Sec. in charge of External Publicity, Ministry of External Affairs 1951-53; Consul-Gen. and rep. to Int. Orgs. Geneva 1953-55; Chair. Int. Comm., Laos 1955-57; Joint Sec. Ministry of External Affairs 1957-59; High Commr to Australia and New Zealand 1959-62; Amb. to Algeria 1962-64, to Lebanon, Jordan and Kuwait and High Commr. to Cyprus 1964-66; High Commr. to Pakistan 1966-69; Perm. Rep. to UN 1969-74; High Commr to Bangladesh 1974-76; Amb. to Sweden 1977-78; Kaiser-i-Hind 1943, Padma Shri 1957. *Leisure interests:* reading, chess, bridge *Address:* c/o Ministry of Foreign Affairs, New Delhi, India.

SEN, Satyendra Nath, M.A., PH.D.; Indian university administrator; b. April 1907; ed. London Univ.; fmr. Dean of Faculties of Arts and Commerce, Univ. of Calcutta, Prof. of Econs. 1958-, Vice-Chancellor 1968-; Visiting Prof. Princeton and Stanford Univs. 1962-63; mem. Gov. Body, Research and Training School, Indian Statistical Inst., Calcutta; mem. Board of Trustees, Indian Museum, Victoria Memorial, Mahajati Sadan (all in Calcutta); Chair. Cttee. for the Review of Univ. and Coll. Teachers' Salaries; mem. various govt. advisory bodies, etc. *Publications:* Central Banking in Underdeveloped Money Markets 1952, The City of Calcutta: A Socio-economic survey 1954-55 to 1957-58 1960, The Co-operative Movement in West Bengal 1966, Industrial Relations in the Jute Industry in West Bengal (with T. Piplai) 1968. *Address:* Office of the Vice-Chancellor, University of Calcutta, College Street, Calcutta, West Bengal 700073, India.

SEN, S.R., PH.D.; Indian international bank official; b. 2 July 1916, Noakhali; s. of late Satya R. Sen and of Ashalata Sen; m. Anita Sen 1948; two s.; ed. Calcutta Univ., Univ. of Dacca and London School of Econs. Taught economics, Univ. of Dacca 1940-48; Deputy Econ. Adviser, Govt. of India 1948-51; Econ. and Statistical Adviser, Ministry of Food and Agric., Govt. of India 1951-58; Joint Sec. (Plan Co-ordination and Admin.), Planning Comm. 1959-63; Adviser (Programme Admin.) and Additional Sec., Govt. of India 1963-69; Vice-Chair. Irrigation Comm., Govt. of India 1969-70; Amb. and Exec. Dir. IBRD, IFC and IDA 1970-; has taken part in and led numerous Indian and int. agric. and devt. comms., and delegations; Pres. Int. Assn. of Agric. Economists 1970. *Publications:* Strategy for Agricultural Development, Economics of Sir James Steuart, Population and Food Supply, Planning Machinery in India, Growth and Instability in Indian Agriculture, Politics of Indian Economy, Decision Making and Agriculture. *Leisure interest:* photography. *Address:* International Bank for Reconstruction and Development, 1818 H Street, N.W., Washington, D.C. 20433, U.S.A.; 41 Poorvi Marg, Vasant Vihar, New Delhi, 11057, India. *Telephone:* 477-2223 (Office); 229-9200 (Home); 675861 (India).

SEN, Sukumar, M.A., PH.D., J.P.; Indian philologist; b. 30 Jan. 1900, Calcutta; s. of Harendranath and Navanalini Sen; m. Sunila Ghosh 1928; one s. one d.; ed. Raj Coll., Burdwan, Sanskrit Coll. and Univ. of Calcutta. Research Student Univ. of Calcutta 1924-26, Khaira Research Scholar 1927-29, Lecturer 1930-54, Khaira Prof. of Indian Linguistics and Phonetics and Head of Dept. of Comparative Philology 1954-64; Pres. Linguistic Soc. of India 1954; Fellow Asiatic Soc.; Chair. Paribhaska Samsad, Govt. of W. Bengal. *Publications:* English History of Brajabuli Literature 1935, Old Persian Inscriptions of the Akhaemenian Emperors 1941, History and Prehistory of Sanskrit 1957, History of Bengali Literature 1959, etc.; Bengali: History of Bengali Literature, 4 vols. 1941-58, History of Indian Literature. *Leisure interest:* reading detective fiction. *Address:* 403 Grand Trunk Road, Burdwan; 10 Raja Rajkissen Street, Calcutta 6, India. *Telephone:* (Bur) 144; (Calcutta) 557783.

SENANAYAKE, Maithripala; Ceylonese politician; b. 1916; ed. St. Joseph's Coll., Anuradhapura, St. John's Coll., Jaffna, and Nalanda Vidyalaya, Colombo; joined Govt. Service 1940, Cultivation Officer 1940-47; mem. Parl. 1947-; Minister of Transport and Works 1956-Dec. 1959; Minister of Industries, Home Affairs and Cultural Affairs July 1960-July 1963; Minister of Commerce and Industries July 1963-June 1964, of Rural and Industrial Devt. 1964-65, of Irrigation, Power and Highways 1970-77; Leader of the House of Reps. 1970-77; Sri Lanka Freedom Party. *Address:* 121 MacCarthy Road, Colombo 7, Sri Lanka.

SENARD, Jacques, L. EN D.; French diplomatist; b. 21 Nov. 1919, Corgoloin, Côte d'Or; s. of Daniel Senard and Magdeleine Mistral Bernard; m. Mireille de la Croix de Chevrières de Sayve; two s. one d.; ed. Ecole Nationale d'Administration; Press Service, Ministry of Foreign Affairs 1947-49; attached to Ministry of Foreign Affairs 1950; attached to Cen. Admin. 1951; attached to Ministry of Foreign Affairs 1951-56; attached to Cen. Admin. for Europe 1956-61; attached to NATO 1961-64; attached to Cen. Admin. 1964-65; First Councillor, Cairo 1965-67; attached to Gen. Secr., Ministry of Foreign Affairs 1967-69; Head of Protocol 1969-72; Amb. to Netherlands 1972-76, to Egypt 1976-. *Address:* 29 avenue Taha Hussein (ex Guizeh), Guizeh, Egypt; 2 rue d'Andigné, Paris 16e, France. *Telephone:* 848-609 (Office and residence).

SENDER, Ramón José, LIC. EN FIL. Y LET.; Spanish-born American author and educator; b. 3 Feb. 1901; ed. Colegio de la Sagrada Familia, Reus (Catalonia), Inst. de Zaragoza, Inst. de Teruel and Madrid Univ.; Infantry Officer, Morocco 1923-24; Editor El Sol, Madrid 1924-31; free-lance writer 1931-36; Major on Gen. Staff, Spanish Republican Army 1936-39; Prof. of Spanish Literature, Amherst Coll., Mass. 1943-44, Denver Univ. 1944; Prof. of Spanish Literature, New Mexico Univ. 1947-63, Prof. Emer. 1963; Visiting Prof. Ohio State Univ. 1951, Univ. of Calif. 1962; Medal of Morocco, Spanish Mil. Cross of Merit; Planeta Prize 1969. *Publications:* Pro Patria 1934, Seven Red Sundays 1935, Mr. Witt among the Rebels 1936, Counter-attack in Spain 1938, A Man's Place 1940, Dark Wedding 1943, Chronicle of Dawn 1944, The King and the Queen 1948, The Sphere 1949, The Affable Hangman 1954, Before Noon 1957, Requiem for a Spanish Peasant 1960, Exemplary Novels of Cibola 1963, Tres Ejemplos de Amor y Una Teoria 1969, Aventura equinoccial de Lope de Aguirre 1970, Nocturno de los 14 1970, Tanit 1970, El Angel Anfibio 1971, Las criaturas saturnianas 1971, La Luna de los perros 1972, La antesala 1973, El fugitivo 1973. *Address:* American Literary Agency, 11 Riverside Drive, New York, N.Y. 10023, U.S.A.

SENDLER, Hans-Jörg; German steel executive; b. 16 Sept. 1910, Malmédy (now in Belgium); s. of Dr. Carl and Olga (née Kalthoff) Sendler; joined Otto Wolff-Konzern 1931; mem. Man. Board, Düsseldorfer Eisenhüttengesellschaft AG, Ratingen (subsidiary of Otto Wolff-Konzern) 1935; mem. Man. Board, Eisen- und Hüttenwerk Thale AG, Cologne (Otto Wolff-Konzern) 1940, Chair. Man. Board 1946; mem. Man. Board, Stahlwerke Bochum AG 1947, Chair. 1955; mem. Man. Board Klöckner-Werke AG, Duisburg 1956, Chair. 1970-74, mem. Supervisory Board 1974-; mem. numerous supervisory boards. *Address:* Freytagstrasse 6, 4000 Düsseldorf 1, Federal Republic of Germany.

SENGHOR, Léopold Sédar; Senegalese writer and politician; b. 9 Oct. 1906; m. Colette Hubert 1957; ed. Lycée de Dakar, Lycée Louis-le-Grand, Paris and Univ. de Paris; Classics Teacher, Lycée Descartes, Tours 1935-44, Lycée Marcelin Berthelot, Paris 1944-48; mem. Constituent Assemblies 1945-46; Deputy from Senegal to Nat. Assembly 1946-58; Prof., Ecole Nat. de la France d'Outre-Mer 1948-58; Sec. of State, Présidence du Conseil 1955-56; mem. Consultative Assembly, Council of Europe; Pres. Fed. Assembly, Mali Fed. of Senegal and Sudan 1959-60, Pres. Senegal Repub. 1960-, also Minister of Defence 1968-69; Chair. OCAM 1972-74; Sec.-Gen. Union Progressiste Sénégalaise (from 1977 Parti Socialiste Sénégalais), nat. party of Parti Fédéraliste Africain (PFA); Chair ECONAS 1978-79; mem. Inst. Français, Acad. des Sciences morales et politiques 1969; Dag Hammarskjöld Prize 1965; Peace Prize of German Book Trade, Frankfurt; Haile Sellassie African Research Prize 1973; Apollinaire Prize for Poetry 1974. *Publications:* Chants d'ombres (poems) 1945, Hosties noires (poems) 1948, Chants pour Naëtt (poems) 1949, Ethiopiques (poems) 1956, Nocturnes (poems) 1961, Langage et poésie négro-africaine 1954, L'apport de la poésie nègre 1953, Esthéthique négro-africain 1956, Collected Poems 1977. *Address:* Présidence de la République, Dakar, Senegal.

SENGOKU, Jo, LL.B.; Japanese business executive; b. 26 Jan. 1904, Osaka; m. Tetsuko Sasaki 1935; no c.; ed. Tokyo Univ.; Dir. Kuraray Co. Ltd. 1942, Man. Dir. 1945, Senior Man. Dir. 1948, Vice-Pres. 1961, Pres. 1968-75, now Chair.; Pres. Kyowa Gas Chemical Industry Co. 1961-; Dir. Keihanshin Real Estate Co. 1952-, Sanyo Broadcasting Co. 1969-, Hotel Plaza 1969-; Man. Dir. Kurashiki Cen. Hosp. 1973-; Blue Ribbon Medal 1967; Second Order of Merit with the Order of the Sacred Treasure 1974. *Leisure interests:* golf, race-horse owner, music. *Address:* 1-37, Kumoicho, Nishinomiya, Hyogo Prefecture, Japan.

SENOUSSI, Badreddine, M.A., LL.M.; Moroccan diplomatist; b. 30 March 1933, Fez; s. of Ahmed and Zineb Senoussi; m. Touria Kerdoudi 1958; three s.; ed. Lycée Rabat, and Univs. of Rabat and Paris; Counsellor, High Tribunal of Rabat 1956; with Ministry of State in charge of admin. 1957; Gen. Sec. Nat. Tobacco Office 1958; Chief of Royal Cabinet 1963; Under-Sec. of State for Commerce, Industry, Mines and Merchant Marine 1964, for Admin. Affairs 1965; Minister of Post Offices and Telecommunications 1966; Minister of Youth, Sport and Social Affairs 1970; Deputy to Chamber of Reps. 1970; Amb. to U.S.A. 1971-74, to Iran 1974-76, to U.K. 1976-; numerous foreign awards and decorations. *Leisure interests:* tennis, water skiing, hunting. *Address:* Embassy of Morocco, 49 Queen's Gate Gardens, London, SW7 5NE, England. *Telephone:* 01-584 8827.

ŠEPER, H.E. Cardinal Franjo, PH.D., TH.D.; Yugoslav ecclesiastic; b. 2 Oct. 1905, Osijek; s. of Alois Šeper and Maria Kelemen; ed. Gregorian Univ., Rome; Sec. to Archbishop of Zagreb 1934-41; Rector Zagreb Major Seminary 1941-51, Church of Christ the King, Zagreb 1951-54; Archbishop Coadjutor to Cardinal Stepinac 1954-60; Archbishop of Zagreb 1960-69, cr. Cardinal 1965; Prefect of the Sacred Congregation for the Doctrine of the Faith, Rome 1968-; Hon. LL.D. *Address:* Piazza della Città Leonina 1, 00193 Rome, Italy. *Telephone:* 654-27-95.

SÉPINSKI, Augustin Joseph Antoine, B.C.L., D.TH.; French ecclesiastic; b. 26 July 1900, St. Julien-les-Metz; ed. Franciscan Studium (Metz) and Strasbourg Univ.; entered Order of Friars Minor (Franciscans) 1919, ordained priest 1924; Dir. Coll. St. Antoine, Metz 1929-33, Phalsbourg 1933-38; Minister Provincial, Metz 1938-45; Del. Gen. for Southern France 1943-45; Definitor Gen., Rome 1945-51; Minister Gen. of the Order 1951- (re-elected 1957); Titular Archbishop of Assura 1965; Apostolic Del. of Jerusalem, Palestine, Cyprus 1965; Apostolic Nuncio to Uruguay 1969-75; retd.; Chevalier Légion d'honneur; Dr. h.c. Univs. of St. Bonaventure (New York) and Dublin and Quincy Coll. (Ill.) *Publication:* La Psychologie du Christ chez Saint Bonaventure 1948; trans. Cristo Interiore secondo San Bonaventura 1964. *Address:* Convento S. Maria Immacolata "La Palma", Salita Mauro 14, 80136 Naples, Italy.

SEPPALA, Richard Rafael, Barrister-at-Law; Finnish diplomatist; b. 15 Jan. 1905; ed. Turku Lyceum, Hamina Reserve Officers' School, Helsinki Univ.; entered Foreign Service 1930; served in Riga, Rio de Janeiro and London; Chief of Bureau, Ministry of Foreign Affairs 1942-43, Asst. Dir. and Dir. Political Dept. 1943-48; Consul Gen. and Permanent Observer, UN 1948-53; Sec.-Gen. Ministry of Foreign Affairs 1953; Sec. of State 1954-56; Amb. to France 1956-58, 1965-72, to U.S.A. 1958-65; Perm. Rep. to UNESCO 1967-72, OECD 1968-69; Grand Commdr. White Rose of Finland, Crown of Belgium, Légion d'honneur, Icelandic, Netherlands, Polish, Brazilian, Mexican and British decorations. *Address:* Jt, Lokkalantie 16 B47, Helsinki, Finland.

SERAPHIM, His Beatitude Archbishop; Greek ecclesiastic; b. 1913, Artesianon, Karditsa, Thessaly; ed. Theological School, Univ. of Athens; ordained 1938; participated in Nat. Resistance against Nazi occupation; Clerk, later Sec. of Holy Synod; Metropolitan of Arta 1949, of Ioannina 1958; Archbishop of Athens and All Greece 1974-; participated in First Pan-Orthodox Conf. of Rhodes. *Address:* c/o Holy Synod of the Church of Greece, Athens, Greece.

SERBER, Robert, PH.D.; American physicist; b. 14 Mar. 1909, Philadelphia, Pa.; ed. Lehigh Univ. and Univ. of Wisconsin; Nat. Research Fellow, Univ. of Calif. 1934-36, Research Assoc. 1936-38, Prof. 1946-51; Asst. Prof. Univ. of Illinois 1938-40, Assoc. Prof. 1940-45, Prof. 1945; Prof. Columbia Univ. 1951-, Chair. Dept. of Physics 1975-; Consultant, Metallurgical Laboratory, Chicago 1942-43, Brookhaven Nat. Lab. 1951-; Senior Scientist Los Alamos Lab. 1943-45; Dir. Physics Measurements, Atomic Bomb Mission to Japan 1945; mem. Atomic Bomb Group, Marianas 1945, Solvay Conf., Brussels 1948; Vice-Pres. American Physical Soc. 1969; Guggenheim Fellow; mem. of Advisory Cttee. to Nat. Accelerator Lab. 1967, and of numerous other scientific cttees.; mem. Nat. Acad. of Sciences. *Address:* Department of Physics, Columbia University, New York, N.Y. 10027; 450 Riverside Drive, New York, N.Y. 10027, U.S.A. (Home).

SERENI, Vittorio, LAUR. IN LETT.; Italian writer and publisher; b. 27 July 1913, Luino (Varese); s. of Enrico Sereni and Maria Colombi; m. Maria Luisa Bonfanti 1940; three d.; ed. Univ. of Milan; Literary Dir. Arnoldo Mondadori Editore 1958-; Premio Libera Stampa 1956, Premio Montefeltro 1965, Premio Antonio Feltrinelli 1972 per la poesia (Accademia Nazionale dei Lincei), Premio Città di Monselice 1976. *Publications:* Frontiera 1941, 1966, Poesie 1942, Diario d'Algeria 1947, 1965, Gli Immediati Dintorni 1962, L'opzione 1964, Gli Strumenti Umani 1965, 1975, Ventisei 1970, Sei Poesie e Sei Disegni 1972, Poesie scelte 1973, Un posto di Vacanza 1973, Letture Preliminari 1973. *Leisure interest:* football. *Address:* Arnoldo Mondadori Editore, Via Blanca di Savoia 12, Milan; Via P.A. Paravia, 37, Milan, Italy (Home). *Telephone:* 4033701.

SERGENT, René Edmond; French civil servant; b. 16 Jan. 1904, Paris; m. Monique Schweisguth 1931; three s. three d.; ed. Ecole Polytechnique; with Ministry of Finance 1929-37; Financial Dir. Nat. Societies for Aeronautical Construction 1937-40; mem. and later Dir. Foreign Trade Dept., Ministry of Finance 1940-44; Chair. French Economic and Financial Dept., Berlin Control Comm. 1945-47; Financial Attaché, French Embassy, London 1947; Asst. Sec.-Gen. (Economics and Finance), N.A.T.O. 1952-55; Sec.-Gen. Organisation for European Economic Co-operation 1955-60; Vice-Pres. Syndicat Gén. de la Construction Electrique 1960-69; Pres. Groupement des Industries de la Construction Electrique 1969-75, Soc. Bancaire de Paris 1970-72; Officier Légion d'honneur. *Address:* 1 boulevard de Beauséjour, 75016 Paris, France. *Telephone:* 288-30-31.

SERISAWA, Kojiro; Japanese author; b. 5 May 1897, Numazu; s. of Tsumehal and Haru Serisawa; m. Kanae Serisawa 1927; three d.; ed. Tokyo and Paris Univs.; Admin. Official Ministry of Agriculture 1922-25; Prof. at Chuo Univ. 1930-32; Pres. Japanese PEN Club 1948-; mem. of Japanese Acad.; awarded Prix des Amitiés Françaises 1959, Prix of Japanese Govt. 1970, of Japanese Acad. 1972, Commandeur de l'Ordre des Arts et des Lettres 1974. *Publications:* Death in Paris 1940, One World 1954, Mrs. Aida 1957, Under the Shadow of Love and Death 1953, House on the Hill 1959, Parting 1961, Love, Intelligence and Sadness 1962, Fate of Man (14 vols.) 1962-71, La porte étroite 1975. *Address:* 5-8-3 Higashi Nakano, Nagano-ku, Tokyo, Japan. *Telephone:* 03-361-2913.

SERKIN, Rudolf; American pianist; b. 28 March 1903, Eger, Bohemia; m. Irene Busch 1935; two s. four d.; debut with the Vienna Symphony Orchestra 1915; with Adolf Busch in ■ series of sonatas for violin and piano; American debut 1933; appeared with Toscanini 1934, 1936, with Nat. Orchestral Assn. 1937; annual tours of the U.S.A. 1934-; Head Piano Dept., later Dir., Curtis Inst. of Music; Artistic Dir. and Pres. Marlboro School of Music; mem. American Acad. of Arts and Sciences, Nat. Council on the Arts, Carnegie Comm. Report; Presidential Medal of Freedom 1963; Hon. mem. Philharmonic Soc. of New York 1971, Neue Bachgesellschaft, Bonn, Acad. of St. Cecilia, Rome, Verein Beethoven Haus, Bonn, Riemenschneider-Bach Inst.; Fifth annual Pa. award for Excellence in the Field of Performing Arts 1971; Dr. h.c. Curtis Inst., Temple Univ., Univ. of Vermont, Williams Coll., Oberlin Coll., Univ. of Rochester, Harvard Univ. *Address:* R.F.D.3, Brattleboro, Vt. 05301, U.S.A.

SERLACHIUS, Ralph Erik; Finnish industrialist; b. 24 Jan. 1901, Mänttä; s. of Gösta and Sigrid (Serlachius) Serlachius; m. Brita Idman 1931; one s. two d.; ed. Dresden Technical Univ. and Ecole des Hautes Etudes Commerciales, Paris; Chair. G. A. Serlachius Ltd. 1942-, Man. Dir. 1942-68; Chair. The Art Foundation of Gösta Serlachius; Chair., Deputy Chair. or Dir. many other companies and asscns.; Counsellor of Mines 1948; Minister of Communications and Public Works 1953-54; Dr. Tech. h.c. (Åbo Acad.); Cross of Liberty, 3rd and 4th class; Commdr. with Grand Cross and Chancellor, Orders of the White Rose of Finland and of the Lion of Finland; Commdr. Légion d'honneur, and other foreign decorations. *Leisure interests:* fishing, shooting. *Address:* Honkahovi, Mänttä, Finland. *Telephone:* Mänttä 47131.

SEROCKI, Kazimierz; Polish composer; b. 3 March 1922, Toruń; ed. Warsaw, Łódź and Paris; State Artistic Prize 1952; Prize of Minister of Culture and Art 1st Class 1963, State Prize 1st Class 1972; Award of Tribune Internationale des Compositeurs UNESCO 1965; G. Fitelberg Prize 1956, 1958, 1960; Prize of the Union of Polish Composers 1965 and many other int. and nat. prizes; numerous decorations including Commdr. Cross Order of Polonia Restituta. *Compositions include* two symphonies 1952, 1953 (one choral), Sinfonietta for two string orchestras 1956, Heart of the Night 1956, Eyes Of Air (song cycles) 1957, Musica concertante for chamber orchestra 1958, Episodes for strings and three groups of percussion 1959, Segments for seven instrumental groups 1961, Symphonic frescoes 1964, Niobe for two voices, choir and orchestra, Continuum for percussion 1966, Forte e Piano (for 2 pianos and Orchestra) 1967, Dramatic Story (for orchestra) 1968-71, Poesies (for soprano and chamber orchestra) 1969, Swinging Music (for clarinet, trombone, bass and piano) 1970, Fantasmagoria (for piano and percussion) 1970-71, Fantasia Elegiaca (for organ and orchestra) 1971-72, Impromptu Fantasque (for recorders, mandolins, guitars, percussion and piano) 1973, Concerto alla Cadenza (for recorder and orchestra), Arrangements (for 1-4 recorders), Ad Libitum (for orchestra) 1973-77, Pianophonie (for piano, electronic transformation of sound and orchestra) 1976-78; chamber and piano music. *Address:* Post Box 63, 00-957 Warsaw, Poland. *Telephone:* 410796.

SERRANO-CAMARGO, Gabriel; Colombian architect; b. 24 March 1909; s. of Angel M. Serrano and Paulina Camargo; m. Stella Navia 1946; three s. two d.; ed. Univ. Nacional de Colombia; Founder and for 33 years collaborator and Dir. of Dept. of Architecture Cuellar Serrano Gómez; Pres. Colombian Del. to congresses in Mexico, Moscow, London and Washington, D.C.; Counsellor and Prof. Univ. Nacional de Colombia; mem. Comm. for Regulatory Plan of Bogotá; Pres. Board of Dirs. Museum of Modern Art, Bogotá; Pres. Soc. of Architects; Pres. Pan-American Fed. of Architectural Socs.; Hon. Pres. Colombian Soc. of Architects; mem. American Inst. of Architects, Colls. of Architects of Brazil, Chile, Venezuela, Puerto Rico, Uruguay, Paraguay; Cruz de Boyaca; Nat. Engineering Prize 1948, Nat. Architects Prize 1962. *Address:* Edificio Seguros Bolívar, Carrera 10A, No. 16-39, 15°, Bogotá, D.E., Colombia. *Telephone:* 410-612.

SERT, José Luis, M.ARCH.; American architect; b. 1 July 1902, Barcelona, Spain; s. of Francisco and Genara (López) Sert; m. Ramona Longas 1938; one d.; ed. Barcelona Escuela Superior de Arquitectura; worked with Le Corbusier, Paris 1929-30; private practice in Barcelona 1929-38; settled in U.S. 1939; co-founder and Partner Town Planning Associates, New York 1941-56; naturalized U.S. citizen 1951; Co-Founder and Partner, Sert, Jackson and Assocs. (fmrly. Sert, Jackson and Gourley) 1957-; Dean and Prof. Harvard Univ. Graduate School of Design 1953-69, Prof. Emer. 1969-; mem. Int. Congress of Modern Architecture (Pres. 1947-56), Advisory Council, Princeton School of Architecture and Urban Planning 1972-; Fellow, American Inst. of Architects; mem. American Inst. of Planners, American Acad. Arts and Sciences, Nat. Inst. Arts and Letters; Hon. mem. R.I.B.A., Peruvian Inst. of Urbanism, Soc. Colombiana de Arquitectos; Hon. M.A., Hon. Art.D. (Harvard Univ.), Hon. Litt.D. (Boston Coll.). *Projects include:* U.S. Embassy, Baghdad; Harvard Univ. Holyoke Center, Married Students Dormitories, Undergraduate Science Center, Center for Study of World

Religions; Boston Univ. Student Union, Mugar Library, Law and Educ. Bldgs.; Archdiocese of Boston, St. Botolph's Chapel; Cambridge, Mass., Martin Luther King Jr. Elementary School, Negea Service Corpn.; Mass. Bay Transportation Authority, Bowdoin Square Station, North Quincy Rapid Transit Station; Worcester, Mass., Urban renewal plan for cen. business district; Besançon, France, School of Fine and Applied Arts; Chalon-sur-Saône, France, Carmelite Convent; Maeght, France, Musée Foundation; Design Consultant Univ. of Guelph Admin. and Liberal Arts Bldgs., Library, Univ. Center; Master Plans for Havana, Bogotá, etc. *Publications:* Can Our Cities Survive? 1947, The Heart of the City (with Rogers and Tyrwhitt) 1952, Antoni Gaudi (with Sweeney) 1960. *Address:* 44 Brattle Street, Cambridge, Mass. 02138 (Office); 64 Francis Avenue, Cambridge, Mass. 02115, U.S.A. (Home). *Telephone:* (617) 876-4015.

SERTOLI, Giandomenico, IUR.D.; Italian international civil servant and banker; b. 26 Sept. 1922, Vicenza; s. of Giovanni F. and Angela Maddalena Sertoli; m. Marianne Roblin 1946; two s.; ed. Univ. of Padua and Institut des Hautes Etudes Internationales, Geneva; Asst. to the Pres. and Sec. Board of Dirs., ARAR, Rome 1946-54; mem. Finance Dept., European Coal and Steel Community, Luxembourg 1954-58; Deputy Man. Finance and Treasury Dept., European Investment Bank 1958-60, Man. 1960-68; Financial Adviser to Banca Commerciale Italiana 1968-, Deputy Gen. Man. 1969, Gen. Man. 1976; Vice-Chair. Banca della Svizzera Italiana 1978. *Leisure interests:* tennis, skiing, bridge. *Address:* Banca della Svizzera Italiana, Via Magatti 2, Lugano, Switzerland; 18 quai Gustave Ador, 1207 Geneva. *Telephone:* 210220; 363358.

SERVAN-SCHREIBER, Jean-Claude, L. EN DR.; French newspaperman; b. 11 April 1918; ed. Oxford and Sorbonne Univs.; served World War II in Flanders 1940, in Resistance 1941-42, in North Africa 1943, France 1944, Germany 1945; with Les Echos 1946-65, Gen. Man. 1957, Dir. 1963-65; Deputy for Paris 1965-67; Asst. Sec.-Gen. U.N.R.-U.D.T.; mem. Board Jacques de Saint Phalle et Cie. (advertising agency), Paris; Pres. Rassemblement français pour Israël May 1967; Dir.-Gen. Régie française de publicité 1968; mem. Bureau du Comité pour un nouveau contrat social and Pres. Comm. de contrôle et des statuts du mouvement pour le socialisme par la participation 1971-; Pres. Council for Econ. and Social Revival of Nîmes 1972-; Pres. Groupe Européen des Régisseurs de Publicité Télévisée 1975-; Officier de la Légion d'honneur, Médaille mil., Croix de guerre, Croix du Combattant volontaire de la Résistance, Legion of Merit (U.S.A.). *Address:* 18 rue de Marignan, 75008 Paris, France.

SERVAN-SCHREIBER, Jean-Jacques; French journalist and writer; b. 13 Feb. 1924; ed. Ecole Polytechnique, Paris; joined as a volunteer the Free French Army of Gen. de Gaulle as fighter pilot 1943 (U.S. Air Force); diplomatic editor of Le Monde 1948-51; founder L'Express, Dir. 1953-77; Sec.-Gen. Social Radical Party 1969-71, Pres. 1971-75, 1977-; Deputy for Nancy to Nat. Assembly 1970-78; re-elected 1973, 1978 (election declared invalid July 1978); (founder Mouvement Réformateur with Jean Lecanuet, *q.v.*) 1972; Minister of Reforms June 1974; Pres. Regional Council of Lorraine 1976-, Radical Party 1977; Croix de la Valeur mil. *Publications:* Lieutenant en Algérie 1957, Le défi Américain 1967, Le réveil de la France 1969, Ciel et terre 1970, Forcer le destin 1970, Le pouvoir régional 1971, Appel à la réforme 1972, Le projet réformateur 1973, L'arme de la confiance 1976, Le manifeste 1977. *Address:* Assemblée Nationale Paris, 7e; 8 place de la Carrière, 54-Nancy, France (Home).

SERVOLINI, Luigi, D.LIT., D.F.A.; Italian xylographer, writer and art critic; b. 1 March 1906, Leghorn (Livorno), Tuscany; s. of Carlo Servolini; m. Odetta Andreoni 1930; one s. one d.; ed. Pisa Univ., Acad. of Fine Arts, Carrara; Prof. of Xylography and Lithography, R. Istituto del Libro di Urbino, and Dir. of Library, Urbino Univ. 1930-39; Dir. artistic and cultural insts. at Forli 1939-53; First Gen. Dir. Istituto Rizzoli per l'Insegnamento delle arti grafiche, Milan 1953-56; Prof. History of Art; Headmaster; Prof. Special School for Art Historians, Istituto Storia d'Arte, Univ. of Pisa 1969-72; Pres. "Incisori d'Italia" Assen.; also painter and lithographer and has since 1923 taken part in many important exhbns.; works represented in 80 European and American Public Galleries; has won several prizes; Hon. mem. Accademico Disegno, Florence; Editor "Comanducci" Dictionary; mem. Ordine dei Giornalisti (Rome) 1935; Editor La Voce degli IDIT (fortnightly); Pres. of Engraving Art Acad., Rome; Grand Officer Italian Repub. *Publications:* Ugo da Carpi 1929, La Xilografia a chiaroscuro italiana nei secoli XVI, XVII e XVIII 1930, Tecnica della Xilografia 1935, A. Bosse 1937, Problemi e aspetti dell'Incisione 1939, J. de Barbari 1943, Pittura gotica romagnola 1944, Xilografia giapponese 1949, La Xilografia 1950, Incisione italiana di cinque secoli 1951, Incidere 1952, 1961, Dizionario Incisori ital. moderni e contemporanei 1955, Mosaico di Romagna 1957, Autobiografia di Bodoni 1958, I procedimenti artistici e industriali della Grafica 1959-63, Gli Incisori d'Italia 1960, Il Comanducci: Dizionario dei Pittori (5 vols.) 4th edn. 1971-73, Acqueforti di Giovanni Fattori 1966, Athena: Storia dell' Arte classica e italiana (3 vols.) 1966-68, Dalla pietra litografica alla stampa offset 1968, L'Arte di Incidere 3rd edn. 1971, La Serigrafia Originale 1973, Gli Incisori d'Italia, Vol. II, 1974, Tecnica della Xilografia giapponese 1975, La storia e le tecniche dell' Incisione 1977, Ugo da Carpi: i chiaroscuri e le altre Opere 1977. *Leisure interests:* ancient and modern prints, ex libris, hypnotism. *Address:* 57100 Livorno, Via Bernadetto Borromei II, Italy. *Telephone:* 0586-34444.

SESHADRI, Tiruvenkata Rajendra, M.A., PH.D., F.R.S.; Indian chemist; b. 3 Feb. 1900, Kulittalai, Madras State; s. of R. T. and Namagiri Iyengar; m. Kamala Seshadri 1924; three d.; ed. Univs. of Madras, Manchester, London, Edinburgh, Graz; Prof. Univ. of Andhra 1933-49, Univ. of Delhi 1949-; has acted as adviser to Ministries of Educ., Agriculture, Industry and Defence, to Council of Scientific and Industrial Research, Indian Council of Agricultural Research, Indian Council of Medical Research, Univ. Grants Comm., Dept. of Defence Research and Dept. of Atomic Energy; Past Pres. Indian Nat. Science Acad., Indian Science Congress, Indian Pharmaceutical Assen., Indian Pharmaceutical Congress, Indian Chem. Soc.; Past Chair. North India Section, Royal Inst. of Chem.; Pres. Oil Technologists Assen. of India; fmr. Vice-Pres. Indian Acad. of Sciences; awarded title of Padma-Bhushan, Govt. of India; mem. Deutsche Akademie der Naturforscher, Leopoldina; Bhatnagar and Saha Medals, Indian Nat. Science Acad.; Acharya Ray Medal, Indian Chem. Soc.; Hon. D.Sc. (Univs. Andhra, Banaras, Delhi, Osmania, Venkateswara). *Publications:* approximately 1,100 articles on chemistry, utilization of Indian natural resources, agricultural commodities and forest products, in Indian and foreign scientific journals. *Address:* Department of Chemistry, University of Delhi, Delhi 7; No. 4a Model Town, Delhi-9, India (Home). *Telephone:* 228348 (Home).

SESSIONS, Roger Huntington, A.B., B.M.; American composer and teacher; b. 28 Dec. 1896; ed. Harvard Coll., Yale Univ. School of Music and private studies with Ernest Bloch; Asst., later Instructor, Smith Coll. 1917-21, Teacher and Asst. to Dir., Cleveland Inst. of Music 1921-25; Guggenheim Fellowship, Florence 1926-28, Walter Damrosch Fellowship, American Acad. in Rome 1928-31, Carnegie Foundation Fellowship, Berlin 1931-33; Lecturer, New School for Social Research, New York, and Teacher, Malkin Conservatory, Boston 1933-34; Lecturer, Boston Univ. Coll. of Music, and Teacher, Dalcroze School of Music, New York 1934-35; private teaching, musical composition, New York 1935-45; Instructor, Asst. Prof. and Assoc. Prof., Princeton Univ. 1935-45; Prof. of Music, Univ. of Calif., Berkeley 1945 (sabbatical leave, Fulbright Award, Florence 1951-52); William Shubael Conant Prof. Music Princeton Univ. 1953-65; mem. faculty Juilliard School of Music 1965-; mem. Int. Soc. for Contemporary Music, Pres. U.S. Section 1934-42, Nat. Inst. of Arts and Letters 1938-, American Acad. of Arts and Letters 1953-, Akad. der Künste, Berlin 1960-, American Acad. of Arts and Sciences 1961-; Hon. D. Mus. (Wesleyan, Rutgers, Harvard Univs.); Pulitzer Special Citation for Music 1974. *Compositions include:* Concerto for Violin and Orchestra 1937, String Quartet No. 1 in E Minor 1938, Duo for Violin and Piano 1948, String Quartet No. 2, Sonata No. 2 for Pianoforte 1948, Symphony No. 2 1949, Symphony No. 3 1957, No. 4 1958, String Quintet 1958, Divertimento for Orchestra 1960, Montezuma (opera) 1963, Symphony No. 5 1964, No. 6 1966, Six Pieces for Violin Solo 1966, Symphony No. 7 1967, Symphony No. 8 1968, Rhapsody for Orchestra 1970, Concertino for Chamber Orchestra 1972. *Publications:* The Intent of the Artist 1941, The Musical Experience of Composer, Performer, and Listener 1950, Harmonic Practice 1951, Questions About Music 1970. *Address:* 63 Stanworth Lane, Princeton, N.J. 08540, U.S.A.

SETER, Mordecai; Israeli composer; b. 1916, Russia; s. of Itzhac and Beraha Seter; m. Dina Pevsner 1939; two c.; studied Paris with Paul Dukas and Nadia Boulanger 1932-37; Assoc. Prof. Israel Acad. of Music, Tel Aviv; Tel-Aviv Municipality Prize 1945, 1954; Prix Soc. d'Auteurs et de Compositeurs 1956; Prix Italia 1962; Israel State Prize 1965. *Works include:* Sabbath Cantata 1940, Festivals 1947, Festive Songs 1951, Three Motets 1951, Midnight Vigil 1962, Dithyramb 1966, Jerusalem 1966 (choral music); Ricercar 1956, Variations 1959-67, Sinfonietta 1961, Jephthah's Daughter 1965, Meditation 1967, etc. (symphonic music); The Legend of Judith 1962, Part Real, Part Dream 1964 (ballet); Fantasia 1964, Yemenite Suite 1967, Rounds 1968 (orchestral); Partita (for violin and piano) 1951, Elegy (for viola or 'cello and piano) 1954, Trio ('cello, violin and piano), Chaccone and Scherzo (piano) 1954, Chamber Music

1970 (six works for different instrumental combinations: Intimo, Monodrama, Epigrams, Requiem, Quartet, Autumn) 1970; Soliloquio, Cappricci, Intervals, Sine Nomine, Janus (for piano) 1972-73; Concertante (for violin, oboe, horn and piano) 1973; Trio (for violin, 'cello and piano) 1973; Wood-Wind Trio 1974; Quintet (for violin, 'cello, flute, horn and piano) 1975; Ensemble (for six instruments) 1975; Three String Quartets 1976; Solo and Tutti (for clarinet and string quartet) 1976; Music (for string quartet) 1976; String Quartet No. IV 1977; violin sonatas, educ. music, etc. *Address:* The Israel Academy of Music, Tel Aviv; 1 Karny Street, Ramat Aviv, Tel Aviv, Israel (Home). *Telephone:* 416111 (Office); 417766 (Home).

SETHI, Shri Prakash Chandra, B.A., LL.B.; Indian politician; b. 19 Oct. 1920, Jhalrapatan, Rajasthan; s. of Shri Bhanwarlal Sethi; m. 1939; five d.; ed. Madhav Coll., Ujjain and Holkar Coll., Indore; Pres. Madhav Nagar Ward Congress 1947, Ujjain District Congress 1951, 1954, 1957, Textile Clerks Assen. 1948-49; Madhya Bharat Employees Assen. Vice-Pres. 1942, 1949, 1952; Treas. Madhya Bharat Congress 1954-55; mem. Ujjain District and Madhya Baharat Congress Cttee. Exec. 1953-57; Dir. Ujjain District Co-operative Bank 1957-59; A.I.C.C. Zonal Rep. for Karnatak, Maharashtra, Bombay and Gujarat 1955-56; observer for Bihar Dec. 1966; elected to Rajya Sabha Feb. 1961, April 1964, to Lok Sabha Feb. 1967; Deputy Minister for Steel, Heavy Industries and Mines, Cen. Govt. 1962-67, Minister of State 1967-69; Minister for Revenue and Expenditure 1969-70; Minister of Defence Production 1970-71; Minister of Petroleum and Chemicals 1971-72; Chief Minister Madhya Pradesh 1972-75; Minister of Fertilizers and Chemicals 1975-77; Rep. Govt. of India at Commonwealth Finance Ministers' Conference, Barbados 1969; leader of del. to Colombo Plan Conf., Victoria 1969; Gov. for India, Asian Devt. Bank, Manila, and Int. Bank for Reconstruction and Devt. 1969; arrested Oct. 1977. *Leisure interests:* tennis, travel, music, and reading. *Address:* c/o Ministry of Fertilizers and Chemicals, New Delhi, India.

SETHNA, Homi Nusserwanji, B.SC., M.S.E., D.SC.; Indian engineer; b. 24 Aug. 1923; ed. St. Xavier's School and Coll., Bombay, Univ. of Bombay, and Michigan Univ.; Works Man. Indian Rare Earths Ltd. (Govt. Co.) 1949-50; joined Atomic Energy Establishment, Trombay (now Bhabha Atomic Research Centre) 1959, Dir. 1966; constructed Monazite Plant, Alwaye, Kerala, Thorium and Uranium Metal Plants and Plutonium Plant, Trombay, Bombay, and Uranium Mill, Jadugoda, Bihar; Deputy Sec.-Gen. of UN Conf. on Peaceful Uses of Atomic Energy, Geneva 1958; Chair. Fertilizer Corpn. of India Ltd. until 1973, Madras and Rajasthan Atomic Power Project Boards; mem. Scientific Advisory Cttee. to Cabinet 1961; mem. Int. Atomic Energy Agency (IAEA) 1966, UN Cttee. of Specialists on Nuclear Technology and the developing countries; mem. for Research and Devt., Atomic Energy Comm. 1966-, Dir. 1966; Sec. to Govt. of India, Dept. Atomic Energy; Chair. Atomic Energy Comm. 1972, Board of Govs. Indian Inst. of Tech. 1971-74, mem. Cttee. on Scientific Research, Planning Comm.; mem. Board of Govs. Tata Memorial Centre, Indian Rare Earths Ltd., Electronics Corpn. of India Ltd.; mem. Gov. Council Tata Inst. of Fundamental Research; mem. Scientific study team, Govt. of India; mem. UN Scientific Advisory Cttee., Scientific Advisory Cttee., IAEE; mem. Indian Inst. of Chemical Engineers, Inst. of Engineers; Life mem. Indian Acad. of Science; Fellow, Indian Nat. Science Acad.; Dr. h.c. (Marathwada Univ.) 1973; Hon. LL.D. (Bombay) 1974; Hon. Dr. Tech. (Jawaharlal Nehru Tech. Univ.) 1974; Hon. D.Sc. (Roorkee and Karnataka Univs. and Indian Inst. of Tech., Bombay) 1975, (Orissa and Mysore Univs.) 1976, (Utkal Univ.) 1977; Padma Shri Award 1959, Shanti Swarup Bhatnagar Memorial Award 1960, Padma Bhushan 1966, Sesquicentennial Award, Univ. of Michigan 1967, Sir Walter Puckey Award 1971, Sir William Jones Memorial Medal 1974, Padma Vibhushan 1975, Sir Devprasad Sarbadhikari Gold Medal 1975. *Address:* 12th Floor, Dept. of Atomic Energy Officers' Apartments, Little Gibbs Road No. 2, Malabar Hill, Bombay 400 006, India; Old Yacht Club, Chhatrapati Shivaji Maharaj Marg, Bombay 400 039 (Home).

SETHNESS, Charles O., A.B., M.B.A.; American investment banker and international official; b. 24 Feb. 1941, Evanston, Ill.; s. of C. Olin Sethness and Alison Louise Burge; m. 2nd Geraldine Greene 1977; one s., one step.-s. two step.-d.; ed. Princeton Univ. and Harvard Business School; Senior Credit Analyst, American Nat. Bank and Trust Co. of Chicago 1963-64; Research Asst. Harvard Business School 1966-67; with Morgan Stanley and Co. 1967-73, 1975-; Vice-Pres. 1972-73, Man. Dir. 1975-; Morgan & Cie. Int. S.A., Paris 1971-73; Exec. Dir. IBRD, IFC, IDA 1973-75; Special Asst. to Sec. of Treasury 1973-75. *Address:* Morgan Stanley and Co., 1251 Avenue of the Americas, New York, N.Y. 10020; 131 Shore Road, Old Greenwich, Conn. 06870, U.S.A. (Home). *Telephone:* 212-974-4050 (Office); 203-637-2922 (Home).

SETSHOGO, Boithoko Moonwa, B.A.; Botswana civil servant and diplomatist; b. 16 June 1941, Serowe; m. Jennifer Tlalane 1971; two d.; ed. Moeng Coll. and Univ. of Botswana, Lesotho and Swaziland; District Officer, Kanye 1969-70; First Sec., High Comm. in London 1970-72; Clerk to the Cabinet 1972-73; Under-Sec., Ministry of Commerce and Industry 1973-75; High Commr. to U.K. 1975-78; Dir. of Information and Broadcasting 1978-. *Leisure interests:* music, sport, reading, theatre, films, opera. *Address:* Department of Information and Broadcasting, Private Bag 0060, Gaborone, Botswana.

SETTE, Pietro, LL.D.; Italian lawyer and executive; b. 1915, Bari; m. Renata Pes 1956; two s.; ed. Univ. of Bari; practice in commercial law, corpn. law, law of commercial credit 1938-; lecturer, Univ. of Rome 1939-50; Chair. Finanziaria Breda and assoc. cos. 1951-76, Società MCS 1957-75, Nuova Iniziativa per il Sud (INSUD) 1963-76, Ente Partecipazione e Finanzia Industria Manifatturiera (EFIM) 1963-75, Ente Nazionale Idrocarburi (ENI) 1975-79, Istituto per la Ricostruzione Industriale (IRI) 1979-; mem. Board ENI 1960-74; fmr. mem. del. to ECSC; fmr. Vice-Pres. Finmeccanica; fmr. Pres. Terni; now mem. Board EFIM, Finanziaria Breda, INSUD, Banco di Roma, IBM Europe; now also mem. Arbitration Council of Italy, European Advisory Council, CEEP; Knight, Grand Cross, Order of Merit (Italy), Cavaliere del Lavoro; Dr. of Mining Eng. h.c. (Univ. of Cagliari). *Address:* Istituto per la Ricostruzione Industriale (IRI), Via Veneto 89, Rome, Italy.

SETTE CAMARA, José; Brazilian diplomatist; b. 4 April 1920, Alfenas, Minas Gerais; ed. Univ. de Minas Gerais and McGill Univ., Canada; Brazilian Diplomatic Service 1945-; Third Sec. Washington 1947; Vice-Consul, Montreal 1947-50; Third Sec. UN, New York 1950-52; Sec. to Civil Household of Pres. of Brazil 1952-55, Deputy Head of Civil Household 1956-59, Head 1959-60; Consul, Florence 1955-56; Provisional Gov., State of Guanabara 1960; Head Perm. Del. of Brazil to UN, Geneva 1960-61; Amb. to Canada 1961-62; Mayor of Brasília 1962-63; Amb. to Switzerland 1963-64; Perm. Rep. to UN 1964-68; Publr. Jornal do Brasil 1969-; mem. UN Int. Law Comm. 1970-; Judge, Int. Court of Justice 1979-. *Address:* International Court of Justice, Peace Palace, The Hague, Amsterdam.

SEVAREID, Eric; American news correspondent; b. 26 Nov. 1912, Velva, N.D.; ed. Univ. of Minnesota; Reporter, Minneapolis Journal 1936; joined Columbia Broadcasting System (CBS) 1939; war correspondent, France and London 1939-40; CBS Washington Bureau 1940-43; war corresp. China 1943; subsequently covered final stages of war in Europe; returned to U.S.A. to cover founding of UN, San Francisco Conf. 1945; attached to CBS Washington Bureau 1946-59; roving European corresp., London 1959-61; returned to New York and served as moderator for various broadcasts 1961-64; Nat. Corresp., CBS News 1964-77, Consultant 1977-; War Corresp. Vietnam 1966; George Foster Peabody Award 1950, 1964, 1967; Order of the Crown (Belgium); Freedom Medal (Norway); Alfred I. Du Pont Award; George Polk Award and numerous other awards and decorations; several hon. degrees. *Publications:* several books incl. Not So Wild a Dream 1946, In One Ear 1952, Small Sounds in the Night 1956, This is Eric Sevareid 1964, essays and articles. *Address:* CBS News, 2020 M Street, Washington, D.C. 20036, U.S.A.

SEVERNY, Andrey Borisovich, D.SC.; Soviet astro-physicist; b. 11 May 1913, Tula; one s. one d.; ed. Moscow State Univ.; Dir. Crimean Astrophysical Observatory, U.S.S.R. Acad. of Sciences; Vice-Pres. Int. Astronomical Union 1964-70; designed optical scheme of large tower Sun telescope; expert on solar physics and stellar magnetism; mem. Royal Astronomical Soc.; corresp. mem. Heidelberg Acad., Corresp. mem., Göttingen Acad. of Sciences 1958; mem. CPSU 1941, Int. Astronautical Acad.; Academician, U.S.S.R. Acad. of Sciences 1968-; State Prize 1952; Hero of Socialist Labour 1973; Order of Lenin, Order of October Revolution and other decorations; Dr. h.c. (Univ. Newcastle, Wrocław Univ., Poland). *Address:* Poselok Nauchny, Crimean Region 334413, U.S.S.R. *Telephone:* 166; 107 (Observatory).

SEVILLA-SACASA, Guillermo; Nicaraguan diplomatist; jurist and congressman; b. 1908, León; m. Doña Lillian Somoza; nine c.; ed. Inst. Nacional de Occidente, Univ. of León, Nicaragua; began diplomatic career 1934; Amb. to U.S.A. 1943-, also accred. to Canada; Perm. Rep. to UN 1978-; Dean, Diplomatic Corps accredited to the White House 1958-; fmr. Amb. to Dominican Repub. and Cuba; Perm. Rep. to OAS, Pres. Council, OAS 1946, 1974; Amb. to numerous govts., incl. Panama, Colombia, Peru, Costa Rica, Japan, China, Korea; rep. Nicaragua in more than 150 Int. Confs., meetings and assemblies; Del. Bretton Woods Conf. 1944, San Francisco Conf. 1945; signed UN and OAS charters; Head of Nicaraguan Del. to special meetings commemorating 10th, 20th

and 25th anniversaries of the UN Charter; attended all Gen. Assemblies of UN; Vice-Pres. of UN Gen. Assembly 1968, 1974, Pres. of Security Council July 1970 and Oct. 1971; Pres. Special Mission, Security Council, to Senegal 1971; Pres. of various Inter-American Confs.; Gov. for Nicaragua at World Bank and IMF; fmr. Prof. Int. and Civil Law; fmr. Judge (civil, criminal, local and district); fmr. Rep. House and Senate of Nicaragua; fmr. Pres. Nat. Congress of Nicaragua; awarded more than 45 foreign decorations; mem. many Insts.; Hon. Pres. Pan-American Soc., U.S.A. *Publication:* Expropriación. *Address:* c/o Ministry of Foreign Affairs, Managua, Nicaragua.

SEYDEWITZ, Max; German writer and fmr. politician; b. 19 Dec. 1892, Forst; m. Ruth Seydewitz 1928; three s. one d.; in youth apprenticed to printing trade; Ed. of Social Democratic newspaper in Halle 1918; Chief Ed. Sächsisches Volksblatt, Zwickau 1920; elected to Reichstag 1924; co-publisher and Ed. Der Klassenkampf (fortnightly) 1927; left Social Democratic Party (SPD) and was founder mem. and first Chair. Socialist Workers' Party (SAP) 1931; emigrated to Czechoslovakia 1933, Norway 1938, Sweden 1940; returned to Germany 1945; mem. Communist Party 1945, SED 1946-; Editor of periodical Einheit 1946, Dir. Berlin Radio 1946; Prime Minister of Saxony 1947-52; mem. Volkskammer (People's Chamber), G.D.R. 1949, Pres. of Economic and Financial Cttee. 1953-63; Dir.-Gen. State Art Collection Dresden 1955-68; Hon. Pres. Museum Council, Ministry of Culture; Vaterländischer Verdiendstorden in Silver and Gold (twice) and other decorations. *Publications:* Todesstrahlen und andere Kriegswaffen 1934, Stalin oder Trotzki? 1936, Hakenkreuz über Europa 1938, Den tyska hemmafronten 1943, Civil Life in Wartime Germany 1944, Es geht um Deutschland 1949, Jde o Nemecko 1950, Wo blieben unsere Männer? 1954, Dresden mahnt Europa 1955, Niemiecka Republika Demokratyczna 1955, Die Unbesiegbare Stadt 1955, Der Antisemitismus in Westdeutschland (with Ruth Seydewitz) 1956, Mezi Odrou a Rynem 1957, Das Dresdener Galeriebuch and Die Dresdener Kunstschätze (with Ruth Seydewitz) 1957, Deutschland-Zwischen Oder und Rhein 1958, Die grosse Kraft 1961, Goethe und der General Winter 1962, Germania meschdu Odrom i Rejnom, Moskau 1960, Die Dame mit dem Hermelin (with Ruth Seydewitz, trans. into 5 languages) 1963, Das Dresdener Galeriebuch (with Ruth Seydewitz), Die Dresdener Kunstschätze (with Ruth Seydewitz), Der verschenkte Herkules (with Ruth Seydewitz), Dresden—Musen und Menschen 1971, Das Mädchen mit der Perle (with Ruth Seydewitz) 1972, Es hat sich gelohnt zu leben—Erkenntnisse und Bekenntnisse von Max Seydewitz Vol. I 1976,—Mein sozialistisches Vaterland, Vol. II 1978. *Address:* 8051 Dresden, Heideflügel 18, German Democratic Republic.

SEYDOU, Amadou; Niger scholar and diplomatist; b. 1928; ed. Dakar, Inst. des Hautes Etudes, Algiers, Al Azhar Univ., Cairo and Univ. of Paris; fmr. teacher, founded Nat. School of Medersa 1960; Chargé d'Affaires, Niger Embassy, Paris 1960-61, Amb. to France 1961-66, concurrently to U.K. 1964-66; Dir. Dept. of Culture, UNESCO Oct. 1967-74; Amb. to France (also accred. to Italy, Spain, Switzerland and U.K.) Oct. 1974-; Commandeur Légion d'honneur. *Address:* Ambassade de Niger, rue de Longchamp 154, 75116 Paris, France.

SEYDOUX FORNIER DE CLAUSONNE, François, L. ES L., L. EN D.; French diplomatist; b. 15 Feb. 1905, Berlin; s. of Jacques Seydoux; brother of Roger Seydoux Fornier de Clausonne (*q.v.*); m. Beatrice Thurneyssen 1930; one s. four d.; ed. Ecole Libre des Sciences Politiques, Univ. de Paris, Law Faculty; Sec. Berlin 1933, Counsellor 1938; mem. Bureau d'Etudes Clandestin, Ministry of Foreign Affairs 1943; First Counsellor, Brussels 1945; Sec.-Gen. French del. to UN Gen. Assembly, Paris 1946; Dir. European Affairs, Ministry of Foreign Affairs 1949-55; Amb. to Austria 1955-58, to Fed. Repub. of Germany 1958-62, to NATO 1962-64, to Fed. Repub. of Germany 1965-70; Amb. de France 1965; Admin. State rep. of Havas agency 1969-76; State Councillor 1970-76; Prés. de la Maison de l'Europe 1971-; Pres. Conseil supérieur de l'Agence France-Presse 1971-; mem. Council of Admin. ORTF 1971-72; Grand Officier Légion d'honneur; Prix Charlemagne 1970. *Address:* 14 rue des Sablons, 75116 Paris, France.

SEYDOUX FORNIER DE CLAUSONNE, Roger, L. es D.; French diplomatist; b. 28 March 1908; s. of Jacques Seydoux; brother of Francois Seydoux Fornier de Clausonne (*q.v.*); Asst. to Financial Attaché, French Embassy, London 1931-32; Asst., Office of French Resident-Gen., Morocco 1933; Sec.-Gen. Ecole des Sciences Politiques, Paris 1934-45, Dir. 1942; Dir. Inst. d'Etudes Politiques de l'Université de Paris 1947; Head of Cultural Relations, French Foreign Office 1947-50; Vice-Pres. UNESCO 1948; Consul-Gen. New York 1950-52; Minister in Washington 1952-54; Minister in Tunisia 1954-56; High Commr. in Tunisia 1955-56, Amb. 1956-57; Dir.-Gen. of Culture and Technical Affairs, Ministry of Foreign Affairs 1956; Amb. to Morocco 1960-62; Amb. and Perm. Rep. to UN, New York 1962-67; Perm. Rep. to NATO 1967-68; Amb. to U.S.S.R. 1968-73; Amb. de France 1970; Admin., Fondation Nationale des Sciences Politiques; Vice-Pres. Cie. Gen. de Banque (SOFICAM); Pres. de la Fondation de France; Dir. Union Industrielle de Crédit; Grand Officier Légion d'honneur; Croix de guerre. *Address:* 18 rue de Bourgogne, Paris 7e, France.

SEYMOUR, Lynn, C.B.E.; Canadian ballet dancer; b. 8 March 1939, Wainwright, Alberta; d. of E. V. Springett; m. 1st Colin Jones 1963 (divorced 1974), three d.; m. 2nd Philip Pace; ed. Royal Ballet School; Graduated into Royal Ballet 1957; promoted to Soloist rank 1958, to Principal 1958; joined Deutsche Oper, Berlin 1966; Guest Artist, Royal Ballet 1970-78; Artistic Dir. of Ballet Bayerische Staatsoper 1978-; Guest Artist with other cos. incl. Alvin Ailey; Evening Standard Drama Award 1977. *Ballets:* The Burrow 1958, Swan Lake 1958, Giselle 1958, The Invitation 1960, The Two Pigeons 1961, Symphony 1963, Romeo and Juliet 1964, Anastasia 1966, Dances at a Gathering, The Concert, The Seven Deadly Sins, Flowers 1972, Shukumei, The Four Seasons 1975, Side Show, Rituals 1975, Manon Lescaut 1976, A Month in the Country 1976, Mayerling 1978, Manon 1978. *Address:* Bayerische Staatsoper, 8000 Munich, Max-Joseph-Platz 2, Federal Republic of Germany.

SEYNES, Philippe de; French United Nations official; b. 4 Jan. 1910; ed. Ecole Libre des Sciences Politiques, Univ. de Paris; Insp. des Finances 1936-39; mobilized 1939; prisoner of war 1940-45; mem. French Mission in Germany, later Dep. Sec.-Gen. Allied Reparations Agency Brussels 1945-49; Financial Adviser to French Del. to U.N. 1949-54, on staff of Minister of Foreign Affairs 1954 (Adviser to M. Mendès-France); Under-Sec. for Econ. and Social Affairs, United Nations 1955-68, Under-Sec.-Gen. 1968-74; Dir. Programme for the Future, UNITAR 1975-; Pres. Assen. Int. Futuribles 1976-; Officier, Légion d'honneur, Croix de guerre. *Address:* Association Internationale Futuribles, 10 rue Cernuschi, 75017 Paris; 12 avenue d'Eylau, 75116 Paris, France.

SHA FENG; Chinese government official; Minister of Agriculture and Forestry 1969-78. *Address:* People's Republic of China.

SHAABI, Qahtan Muhammed al-; Southern Yemen politician; b. 1920; ed. school in Aden, and studied agricultural engineering, Khartoum Univ.; Dir. of Agriculture, Lahej State 1955-58; joined South Arabian League 1958, Public Relations Officer 1959-60; Adviser to Ministry of South Yemen Affairs, Govt. of Yemen People's Repub. 1963; founder-mem. Nat. Liberation Front (N.L.F.) 1963, later Sec.-Gen.; mem. N.L.F. Del. to Geneva talks on independence of S. Arabia Nov. 1967; Pres. of People's Repub. of Southern Yemen, also Prime Minister and Supreme Commdr. of Armed Forces Nov 1967-June 1969. *Address:* Aden, People's Democratic Republic of Yemen.

SHACKLETON, Baron (Life Peer), cr. 1958; **Edward Arthur Alexander Shackleton,** K.G., P.C., O.B.E., M.A.; British politician; b. 15 July 1911; s. of the late Sir Ernest Shackleton, Antarctic explorer; m. Betty Muriel Marguerite Homan 1938; one s. one d.; ed. Radley Coll. and Magadalen Coll., Oxford; Surveyor, Oxford Univ. Expedition to Sarawak 1932; Organizer and Surveyor, Oxford Univ. Expedition to Ellesmereland 1934-35; Royal Air Force 1940-45; M.P. 1946-55; Parl. Private Sec. to Minister of Supply 1945-50, to Lord Pres. of Council 1950-51, to Foreign Sec. 1951; Minister of Defence for the Royal Air Force 1964-67, Minister without Portfolio and Deputy Leader House of Lords 1967-68; mem. Cabinet 1968-70; Leader, House of Lords 1968-70; Lord Privy Seal Jan.-April 1968, 1968-70; Paymaster-Gen. April-Nov. 1968; Leader of Opposition, House of Lords 1970-74; Chair. Eastern European Trade Council Sept. 1977-, RTZ Development Enterprises etc.; Exec. Dir. Rio Tinto-Zinc Corpn. Ltd., Deputy Chair. 1975-; fmr. Pres. Assen. of Special Libraries and Information Bureaux; Pres. Royal Geographical Soc. 1971-74; Head of Govt. team to examine economy of Falkland Islands; Pres. Arctic Club 1960; Pres. Parl. and Scientific Cttee.; Chair. Political Hons. Scrutiny Cttee. 1977-, Royal Inst. of Int. Affairs 1977-; Cuthbert Peek Award, Royal Geographical Soc. 1933, Ludwig Medallist, Munich Geog. Soc. 1938; Labour. *Publications:* Arctic Journeys, Nansen the Explorer, Borneo Jungle (part author), Review of the Operation of the Prevention of Terrorism (Temporary Provisions) Acts 1974 and 1976, Economic Survey of the Falkland Islands 1976. *Address:* 6 St. James' Square, London S.W.1, England. *Telephone:* 01-930 2399.

SHAFEI, Col. Hussein Mahmoud El-; Egyptian army officer and politician; b. 8 Feb. 1918, Tanta; s. of Mahmoud El-Shafei; m. Magda Gubr 1948; two s. one d.; ed. Mil. Coll., Cairo; commissioned as 2nd Lieut. 1938; took part in Palestine hostilities 1948; graduated

from Staff Officers' Coll. 1953 and apptd. Officer-in-Charge Cavalry Corps; Minister of War and Marine 1954, of Social Affairs (Egypt) 1954-58; Minister of Labour and Social Affairs, U.A.R. 1958-61; Vice-Pres. of U.A.R. and Minister of Social Affairs and Waqfs 1961-62; mem. Presidency Council 1962-64; Vice-Pres. of U.A.R. (Egypt) 1964-67, 1970-75; Deputy Prime Minister and Minister of Religious Institutions (Waqfs) 1967-70; Pres. Egyptian del. to OAU Summit Conf. 1973-74; participated in preparing constitution of federation between Egypt, Syria and Libya. *Leisure interests:* riding, tennis, swimming, drawing. *Address:* 6 Sharai Wizaret, El Ziraä Dokki, Giza, Egypt. *Telephone:* 705844, 705222.

SHAFFER, George Wilson, A.B., PH.D.; American psychologist; b. 23 Nov. 1901, Baltimore, Md.; s. of George E. Shaffer and Alice M. Wilson; m. Margaret Cowles 1931; ed. Johns Hopkins Univ.; Dir. Physical Educ., Playground Athletic League, Baltimore, Md. 1917-28; Prof. of Psychology, Univ. of Baltimore 1928-34; Lecturer Psychology and Dir. of Health of Physical Educ., Johns Hopkins Univ. 1934; Dean, Coll. of Arts and Sciences 1942; Prof. of Psychology 1941, Dean of Univ. 1947; Chief Psychologist Sheppard Pratt Mental Hospital 1928-; Visiting Prof. of Psychology, William and Mary Coll. (Summers) 1933 and 1934, Goucher Coll. 1944, Univ. of Calif. 1954; Board of Examiners Nat. Comm. of Clinical and Experimental Hypnosis; Editor International Journal of Clinical and Experimental Hypnosis; Adviser to House and Senate on mental health problems; Fellow, American Psychological Assn., American Psychopathological Assn., etc.; Diploma Abnormal and Clinical Psychology; Distinguished Psychology Award 1969; Eisenhower Medal 1971. *Publications:* Textbook of Abnormal Psychology 1934, Case Histories in Clinical and Abnormal Psychology 1947, Fundamental Concepts in Clinical Psychology 1952, One Hundred Years History of Recreation at Johns Hopkins, etc. *Leisure interests:* sports, bridge. *Address:* De Sota Apartments, 3409 Greenway, Baltimore, Md. 21212, U.S.A. (Home). *Telephone:* Bel 59205 (Home).

SHAFFER, John Hixon, M.SC.; American transportation executive; b. 25 Feb. 1919, Everett, Pa.; m. Joan Van Vleck 1943; one s. two d.; ed. Franklin and Marshall Acad., Lancaster, Pa., U.S. Military Acad., West Point, U.S. Air Force Engineering School, Dayton, Ohio and Columbia Univ.; Production Project Officer, Air Force B-50 Program 1946-48, Weapons System Program Man. of B-47 Program Sept. 1948-54; resigned Air Force comm. as Lieut.-Col. 1954; Gen. Production Man. and Asst. Plant Man. of Mercury Assembly Plant, Ford Motor Co., Metuchen, N.J. Jan. 1954, Asst. to Group Vice-Pres., Automotive, T.R.W. Jan. 1957-58, Vice-Pres. Marketing and Sales of Equipment Group (Defense) Jan. 1958-62, Corporate Vice-Pres. (Customer Requirements) 1962-69; Administrator, Fed. Aviation Admin., Washington, D.C. 1969-73; Pres. Pioneer Van Lines Inc.; Dir. Beech Aircraft Corpn., TRE Inc.; Wright Brothers Memorial Trophy 1972; Distinguished Service Medal 1972; Sec. of Transportation Outstanding Performance Medal 1973. *Leisure interests:* golf, hunting, fishing, reading. *Address:* 2727 Unicorn Lane, Washington, D.C. 20015, U.S.A. (Home).

SHAFFER, Peter Levin; British playwright; b. 15 May 1926; ed. St. Paul's School, London, and Trinity Coll., Cambridge; Evening Standard Drama Award 1958; New York Drama Critics Circle Award 1959-60; Antoinette Perry Award for Best Play (Equus) 1975. *Plays:* Five Finger Exercise 1958, The Private Ear and The Public Eye 1962, The Royal Hunt of the Sun 1964, Black Comedy 1965, White Liars 1967, The Battle of Shrivings 1970, Equus 1973 (film 1977); also television plays. *Address:* 18 Earls Terrace, Kensington High Street, London, W.8, England. *Telephone:* 01-602 6892.

SHAFFER, Raymond F.; American business executive; b. 6 April 1912, Harding, Kan.; ed. Kansas Univ.; joined Greyhound Corpn. 1946, Corporate Exec. Vice-Pres. 1964-70, Dir. 1966-, Pres. Greyhound Lines Inc. 1967, mem. Exec. Ctee. 1969, Pres. May 1970-, Chair. May 1977-. *Address:* The Greyhound Corporation, Greyhound Tower, Phoenix, Ariz. 85077, U.S.A.

SHAFIQ, Mohammad Musa, M.A.; Afghan politician; b. 1924, Kabul; ed. Ghazi High School, Al Azhar Univ., Cairo and Columbia Univ., U.S.A.; joined Ministry of Justice 1957, later became Dir. Legislative Dept.; also taught at Faculty of Law and Political Science, Kabul Univ.; Partner, private law firm, Kabul 1961; Deputy Minister of Justice 1963-66; Adviser, Ministry of Foreign Affairs 1966-68; Amb. to Egypt, also accred. to Lebanon, Sudan and Ghana 1968-71; Minister of Foreign Affairs 1971-73; Prime Minister 1972-73 (deposed by mil. coup); in detention 1973-75.

SHAGINIYAN, Marietta Sergeyevna; Russian authoress, poetess and philologist; b. 1888, Moscow; ed. Moscow Higher Women's Courses; first works publ. at age of 15; mem. CPSU 1942-; Corresp. mem. Armenian Acad. Sc. 1950-; mem. of Board of U.S.S.R. Union of Writers 1954-; Awards include 3 Orders of Lenin, 2 Orders of the Red Banner, Order of the Red Star, Badge of Honour, Stalin Prize 1951 and several medals. *Publications:* over 70 publs. of verse, novels, stories, textbooks, philological research etc. and include: First Meetings 1909, Orientalia 1913, Personal Destiny 1916-23, Changes 1923, The Adventure of ■ Society Lady 1924-25, Agitprop (story) 1924-25, Messmend (futurist novel) 1924-25, Kik (novel) 1929, Hydrocentral 1931, The Ulyanov Family (novel) 1957, Resurrection from the Dead (novel) 1964, The First All-Russian (novel) 1966, Biography of Armenian artist Martiros Saryan. *Address:* U.S.S.R. Union of Writers, Ulitsa Vorouskago 52, Moscow, U.S.S.R.

SHAH OF IRAN, former (*see* Pahlavi, Mohammad Reza).

SHAH, Shri Kodardas Kalidas, B.A., LL.B.; Indian lawyer and politician; b. 27 Oct. 1908, Goregaon, Kolaba; s. of Shri Kalidas Bechardas Shah; m. Madhuben K. Shah 1944; two s. three d.; ed. Gujarat Coll. and New Poona Coll.; joined Nat. Movement 1930, in custody 1932, detained for participation in "Quit India" Campaign 1942; Fellow S.P. Coll., Poona; Teacher, Poddar High School, Santa Cruz, Bombay; started legal practice, Bombay 1934; Legal Adviser to Maharajah of Baroda 1948; mem. Bombay Legislative Assembly 1952, Rajya Sabha (Upper House of Parl.) 1960-61, 1970-71; Gen. Sec. Bombay Pradesh Cttee., Vice-Pres. 1955-57, Pres. 1957-60; Gen. Sec. All-India Congress Cttee. 1962-63; Union Minister of Information and Broadcasting 1967-69; Union Minister of Health, Family Planning, Works, Housing and Urban Devt. 1969-71; Union Minister of Health and Family Planning 1971-72; Gov. of Tamil Nadu 1971-76; Sec. Bombay Famine Relief Cttee.; Leader Indian Del. to Apartheid Conf., London 1964; Count Bernadotte Medal, Red Cross 1970. *Leisure interests:* cricket, tennis, swimming, riding, cards. *Address:* 99 Maharshi Karve Road, Bombay 20, India.

SHAHA, Rishikesh; Nepalese politician and diplomatist; b. 1925, Tansen, Palpain Province; s. of Raja Tarak Bahadur Shaha and Madan Dibeshwari; m. Siddhanta Rajyalakshmi 1946; one s.; ed. Patna Univ. and Allahabad Univ., India; Lecturer in English and Nepalese Literature, Tri-Chandra Coll. 1945-48; Opposition Leader, First Advisory Assembly 1952; Gen. Sec., Nepalese Congress 1953-55; Perm. Rep. (with rank of Amb.) to UN 1956-61; Amb. to U.S.A. 1958-61; Chair. UN Int. Comm. investigating death of Dag Hammarskjöld 1961; Minister of Finance, Planning and Economic Affairs 1961-62, of Foreign Affairs July-Sept. 1962; Amb.-at-large 1962-63; Chair. Standing Cttee., Council of State 1963-64; Visiting Prof. East-West Center, Univ. of Hawaii 1965-66; mem. Parl. 1967-70; Solitary confinement 1969-70; Visiting Prof., School of Int. Studies of Jawaharlal Nehru Univ. 1971; Regent's Prof., Univ. of Calif. at Berkeley 1971-72; returned to Nepal, arrested Dec. 1974; Fellow, Woodrow Wilson Int. Center for Scholars, Washington, D.C. 1976-77; returned to Nepal, arrested May 1977. *Publications:* Nepal and the World 1954, Heroes and Builders of Nepal (in U.K.) 1965, An Introduction to Nepal 1975, Nepali Politics—Retrospect and Prospect (in U.K.) 1975. *Leisure interests:* reading, writing, big game hunting. *Address:* Shri Nivas, Kamal Pokhari, Kathmandu, Nepal. *Telephone:* 11766.

SHAHI, Agha, M.A., LL.B.; Pakistani diplomatist; b. 25 Aug. 1920, Bangalore; s. of Agha Abdullah; ed. Madras Univ. and Allahabad Univ.; Indian Civil Service 1943; Pakistan Foreign Service 1951-; Deputy Sec., Ministry of Foreign Affairs, in charge of UN and Int. Confs. Branch 1951-55; First Counsellor and Minister, Wash. 1955-58; Deputy Perm. Rep. to UN 1958-61; Dir.-Gen. in charge Divs. of UN and Int. Conf. Affairs, Soviet, Chinese and Arab Affairs, Ministry of Foreign Affairs 1961-64; Additional Foreign Sec. 1964-67; Perm. Rep. to UN 1967-72; Pakistan Rep. to Security Council 1968-69; Pres. UN Security Council Jan. 1968; Pres. Governing Council for UN Devt. Programme 1969; Pakistan Rep. to Conf. of the Cttee. on Disarmament 1969; Foreign Sec. 1972-; Chair. Pakistan Del. UN Gen. Assembly 1973-77; Sec.-Gen. Foreign Affairs 1977-78; Adviser to Pres. on Foreign Affairs August 1978-; Chair. UN Advisory Board on Disarmament Studies Nov. 1978-. *Leisure interests:* riding, reading. *Address:* Ministry of Foreign Affairs, Islamabad, Pakistan.

SHAKESPEARE, Frank J., Jr.; American communications executive and government official; b. 9 April 1925, New York City; s. of Frank J. Shakespeare Sr. and Frances Hughes Shakespeare; m. Deborah Ann Spaeth Shakespeare 1954; one s. two d.; ed. Holy Cross Coll., Worcester, Mass.; Liberty Mutual Insurance Co., Washington, D.C. 1947-49; Procter and Gamble Co. 1949-50; Radio Station WOR, New York 1950, Columbia Broadcasting System 1950; Gen Man. WXIX-TV, Milwaukee, Wis. 1957-59; Vice-Pres.

and Gen. Man. WCBS-TV, New York 1959-63; Vice-Pres and Asst. to Pres. CBS-TV Network 1963-65; Exec Vice-Pres. CBS-TV Stations 1965-67; Pres. CBS Television Service Div. 1967-69; Dir. U.S. Information Agency 1969-73; Exec. Vice-Pres. Westinghouse Electric Co. 1973-75; Pres. RKO Gen. 1975-; Young Man of Year, New York City 1960. *Address:* RKO General, 1440 Broadway, New York, N.Y. 10018, U.S.A.

SHAKIROV, Midkhat Zakirovich; Soviet engineer and politician; b. 1916; ed. Bezhitsa Machine-Building Inst.; Fitter at a factory 1934-41, Engineer, Chief Engineer and Deputy Dir. 1941-47; mem. CPSU 1944-; Sec. CPSU District Cttee. and Chief Engineer, Bashkirian A.S.S.R. Ministry of Local Industry 1947-52; Chief Engineer, Head, Oil Main Pipeline Construction Org. 1952-63; First Sec., Ufa City Cttee., CPSU 1963-69; First Sec., Bashkir Regional Cttee., CPSU 1969-; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. Presidium 1970-; mem. Cen. Cttee., CPSU 1971-; various decorations. *Address:* Bashkir Regional Cttee. of CPSU, Ufa, U.S.S.R.

SHAKO, Juxon Levi Madoka; Kenyan politician; b. 1918, Taita district; s. of Mwakio Kiwinda and Constance M. Kidelo; m. 1937; four s. six d.; ed. Alliance High School; Teacher, Teachers' Training Centre, Machakos, teacher and headmaster at various schools 1937-52; joined provincial admin. 1952; Asst. District Officer 1953-55; District Asst., Kisii District 1955-Jan. 1960; District Officer Jan. 1960-62; District Commr. for Kitui 1962-Jan. 1963; Senior District Commr. Jan. 1963-Jan. 1964; Amb. to Fed. Repub. of Germany and to France 1964; Perm. Sec. Ministry of Defence 1967; Chair. East African Harbour Corpn. 1968-69; Minister of Tourism and Wildlife 1969-74; Chair. Leyland Kenya Ltd. 1975-, Kenya Meat Comm. 1975-78. *Leisure interests:* gardening and music. *Address:* Wundanyi Market, P.O. Box 1054, Wundanyi, Kenya.

SHAMOYA, Leonard Hantebele, B.A., M.TECH.; Zambian diplomatist; b. 20 Dec. 1936, Mazabuka; s. of Chiyupa Shamoya and Kavumbu Shamoya; m. 1964; two s. three d.; ed. Univ. of London and Brunel Univ.; Secretarial Asst., Roan Consolidated Mines Ltd., Ndola 1963-69, Chief Personnel Officer 1970-75; mem. Ndola City Council 1966-75, Mayor 1966-68, 1970-75; Dir. Bank of Zambia 1966-75, Zambia Nat. Building Soc. 1972-75, Shell and BP Ltd. 1974-75; Deputy Chair. Local Govt. Assn. 1967-75; Constituency Sec., Ndola North, United Nat. Independence Party (UNIP) 1970-75; Deputy Chair. Zambia Inst. of Personnel Management 1964-75; High Commr. in U.K., non-residential Amb. to Netherlands (also accred. to the Vatican City) 1975-77. *Leisure interests:* football, rowing. *Address:* c/o CISB Ltd., P.O. Box 2100, Kitwe, Zambia.

SHANE, Charles Donald, A.B., PH.D.; American astronomer; b. 6 Sept. 1895, Auburn, Calif.; s. of Charles Nelson Shane and Annette Futhey; m. 1st Ethel Haskett 1917 (died 1919), one s.; 2nd Mary Lea Heger 1920, one s.; ed. Univ. of California; Instructor, Univ. of Calif. 1920-24, Asst. Prof. 1924-29, Assoc. Prof. 1929-35, Prof. 1935-45; Astronomer, Lick Observatory, Univ. of Calif. 1945-63, Dir. 1945-58; Asst. Dir. Radiation Lab. Univ. of Calif. 1942-44; Dir. of Personnel Los Alamos 1944-45; Pres. Assn. of Univs. for Research in Astronomy Inc. 1957-62; Hon. LL.D. *Leisure interests:* gardening, travel, serious literature, especially historical. *Address:* P.O. Box 582, Santa Cruz, Calif., U.S.A. *Telephone:* 408-438-1142.

SHANG TAN; Chinese army officer; Commdr. Honan Mil. District 1978-. *Address:* People's Republic of China.

SHANKAR (Shankar Pillai, K.); Indian newspaper cartoonist; b. 31 July 1902; fmr. cartoonist for Hindustan Times, New Delhi; founded Indian News Chronicle, Delhi 1947; Founder and Editor Shankar's Weekly 1948-; initiated Shankar's Int. Children's Art Competition 1949; founded Children's Book Trust 1957 of which he is now Exec. Trustee; founder and Ed. Children's World Magazine 1968; Dir. Int. Dolls Museum; founder and Dir. Children's Library and Reading Room. *Address:* 9 Purana Kila Road, New Delhi 1, India.

SHANKAR, Ravi; Indian sitar player and composer; b. 7 April 1920; ed. under Ustad Allauddin, Khan of Maihar; trained in the Guru-Shishya tradition; pupil of Ustad Allauddin Khan 1938; solo sitar player; fmr. Dir. of Music All-India Radio and founder of the Nat. Orchestra; Founder-Dir. Kinnara School of Music, Bombay 1962-, Kinnara School of Music, Los Angeles 1967; Founder, Int. Dolls Museum and Children's Library and Reading Room; many recordings of traditional and experimental variety in India, U.K. and the U.S.A.; Concert tours in Europe, U.S.A. and the East; Visiting Lecturer Univ. of Calif. 1965; appeared in film, Raga 1974; Fellow Sangeet Natak Akademi 1976; Silver Bear of Berlin; Award of Indian Nat. Acad. for Music, Dance and Drama 1962; award of Padma Bhushan 1967, Int. Music Council UNESCO Award 1975. *Film Scores:* Pather Panchali, The Flute and the Arrow, Nava Rasa Ranga, Charly, etc. and many musical compositions including Concerto for Sitar 1971. *Publication:* My Music, My Life 1969. *Address:* c/o K. C. Vajifdar, 17 Warden Court, 2nd Floor, August Kranti Marg, Gowalia Tank, Bombay 400036, India. *Telephone:* 82-05-86; 82-74-18.

SHANKS, Michael; British economist; b. 12 April 1927, London; s. of Alan James and Margaret Shanks (née Lee); m. 1st Elizabeth Juliet Richardson 1953 (died 1972), three s. one d.; m. 2nd Patricia Jaffé (née Aspin) 1973; four step.-s. two step.-d; ed. Balliol Coll., Oxford; Lecturer in Econs., William Coll., Mass. 1950-51; Leader, Feature Writer, then Labour Corresp., Industrial Editor Financial Times 1953-64; Econ. Corresp. Sunday Times 1964-65; Industrial Policy Co-ordinator Dept. of Econ. Affairs 1965-67; Econ. Adviser Leyland Motors Ltd. 1967-68; Dir. Marketing Services and Econ. Planning, British Leyland Motor Corpn. 1968-71; Chief Exec. Finance and Planning, British Oxygen 1971-72, Dir. Group Strategy 1973, Non-exec. Dir. BOC Int. Ltd. 1976-; Chair. dataSTREAM Int. Ltd. 1977-; Dir. George Bassett Holdings Ltd. 1977-, P-E Int. Ltd. 1977-, Environmental Resources Ltd. 1977-, Royal Ordnance Factories Board 1977-; Chair. Nat. Consumer Council 1977-; Dir.-Gen. for Social Affairs, Comm. of European Communities 1973-76; Dir. Henley Centre for Forecasting 1977-, mem. Council of Man. 1976-; mem. Nat. Econ. Devt. Council 1977-; Visiting Prof., Brunel Univ. 1973-; Visiting Fellow, Univ. of Lancaster 1969-; mem. Acad. Council of Wilton Park, mem. Council, Foundation of Management Educ.; Adviser, relations with EEC Consumer Councils; Fellow, British Inst. of Management. *Publications:* The Stagnant Society 1960, Britain and the New Europe (with John Lambert) 1962, The Innovators 1967, The Lessons of Public Enterprise, The Quest for Growth 1973, European Social Policy Today and Tomorrow 1977, Planning and Politics: The British Experience 1960-76 1977, What's Wrong With the Modern World? 1978. *Leisure interests:* gardening, travelling, reading. *Address:* 701 Mountjoy, Barbican, London, E.C.2; Clapton Revel, Wooburn Moor, Bucks., England. *Telephone:* 01-628 5919 (London); 06285-27733.

SHANN, Keith Charles Owen, C.B.E., B.A.; Australian diplomatist and public servant; b. 22 Nov. 1917, Kew, Victoria; s. of Frank Shann and Eileen Caplen Hall; m. Betty Evans 1944; two s. one d.; ed. Trinity Grammar School, Kew, and Trinity Coll., Melbourne Univ., Australia; Treasury 1939, Dept. of Labour and Nat. Service 1940-46; United Nations Div., Dept. of External Affairs 1946-49; Australian Mission to UN, New York 1949-52; Head, UN Branch, Dept. of External Affairs 1952-55; Australian Minister to the Philippines 1955-56, Ambassador 1956-59; Rapporteur UN Comm. on Hungary 1957; Australian External Affairs Officer, London 1959-62; Amb. to Indonesia 1962-66; First Asst. Sec. Dept. of External Affairs 1966-70; Deputy Sec., Dept. of Foreign Affairs 1970-74; Amb. to Japan 1974-77; Chair. Australian Public Service Board 1977-78; Dir. Mount Isa Mines Holdings 1978-; mem. Australia-Japan Foundation 1978-, Consultative Cttee. on Relations with Japan 1978-, Council Canberra Coll. of Educ. 1978-; Adviser on Govt. Activities, Parl. Public Accounts Cttee. 1978-. *Leisure interests:* gardening, golf, music. *Address:* 11 Grey Street, Deakin, Canberra 2600, Australia (Home). *Telephone:* 73-1390 (Home).

SHANNON, Claude Elwood, PH.D.; American applied mathematician; b. 30 April 1916; ed. Univ. of Michigan and Massachusetts Inst. of Technology; Research mathematician Bell Telephone Laboratories 1941-56, Consultant 1957-72; Visiting Prof. of Communication Sciences M.I.T. 1956, Prof. of Communication Sciences and Math. 1957-58, Donner Prof. of Science 1958-; Fellow Center for Advanced Study in the Behavioral Sciences, Stanford, Calif. 1957-58, Inst. of Radio Engineers; Visiting Fellow, All Souls Coll., Oxford 1978; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, I.R.E., American Mathematical Soc.; Hon. D.Sc. (Oxford) 1978; Alfred Noble Prize A.I.E.E., Morris Liebman Award I.R.E., Stuart Ballantine Medal, Franklin Soc., Research Corpn. Award, Harvey Prize, Technion, Haifa, Israel. *Publications:* Mathematical Theory of Communication 1949; numerous technical papers; Editor (with J. McCarthy) Automata Studies 1956. *Address:* Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Mass. 02139, U.S.A.

SHANNON, James Augustine, A.B., M.D., PH.D.; American medical research administrator; b. 9 Aug. 1904, Hollis, N.Y.; s. of James A. Shannon and Anna Maraison Shannon; m. Dr. Alice Waterhouse 1933; one s. one d.; ed. Coll. of Holy Cross, Worcester, Mass. and New York Univ. Coll. of Medicine and Graduate School; Asst. Prof. of Physiology, New York Univ. 1935-41, Asst. Prof. of Medicine 1941-42, Assoc. Prof. of Medicine 1942-46; Consulting Physician N.Y. hospitals 1938-44; Dir. Squibb Inst. for Medical Research.

New Brunswick, New Jersey 1946-49; Chair. Malaria Study Section, Nat. Insts. of Health, Bethesda, Maryland 1946-47, Assoc. Dir. Nat. Heart Inst. 1949-52, Assoc. Dir. Nat. Inst. of Health 1952-55, Dir. 1955-68; Special Consultant to Surgeon-Gen., U.S. Public Health Service 1946-49; mem. WHO Advisory Comm. on Medical Research 1959-63; Consultant, President's Science Advisory Comm. 1959-65, Advisory Comm. on Research to AID 1963-, PAHO Advisory Comm. on Medical Research 1962-; Prof. Biomedical Sciences Rockefeller Univ. 1969-75, Adjunct Prof. 1976-; Scholar in Human Biology Elinor Roosevelt Cancer Inst. Univ. of Colorado 1977-; mem. U.S. Nat. Acad. of Sciences 1965-, Philosophical Soc. 1965-; mem. American Acad. of Arts and Sciences 1965-; special adviser to Pres. Nat. Acad. Sciences 1968-; Presidential Medal for Merit 1948, Nat. Acad. of Sciences Public Welfare Medal 1962; Rockefeller Public Service Award 1964, Presidential Distinguished Fed. Civilian Service Award 1966; Nat. Medal for Science 1966; several hon. degrees; chair. and mem. of numerous cttees. of Nat. Research Council. *Address:* 5101 River Road, Chevy Chase, Md. 20016, U.S.A.

SHANNON, William Vincent, M.A., D.LITT.; American journalist and diplomatist; b. 24 Aug. 1927, Worcester, Mass.; s. of Patrick Joseph and Nora Agnes (McNamara) Shannon; m. Elizabeth McNelly 1961; three s.; ed. Clark Univ., Worcester, Mass., Harvard; Assoc. Editor, The Letters of Theodore Roosevelt and Research Assoc. (summer and fall terms) Massachusetts Inst. of Tech. 1949; freelance writer on politics, Washington, D.C. 1949-51; on Washington Staff of New York Post as News Corresp. 1951-57, columnist on nat. affairs 1957-64, mem. Editorial Board of New York Times, specializing in nat. affairs, politics, conservation 1964-77; Amb. to Ireland July 1977-; Page One Award, New York Newspaper Guild; Edward J. Meeman Award 1968, 1976; Gold Medal, Eire Soc. of Boston 1975. *Publications:* The Truman Merry-Go-Round (with R. S. Allen) 1950, The American Irish 1964, The Heir Apparent 1967, They Could Not Trust The King 1974. *Leisure interests:* reading, jogging, fishing. *Address:* Embassy of the United States, 42 Elgin Road, Ballsbridge, Dublin 4, Ireland. *Telephone:* 688-777.

SHANTARAM, V(ankudre); Indian film director, producer and actor; b. 18 Nov. 1901; ed. Kolhapur High School; worked in film industry 1920-; Founder mem. Prabhat Film Co., Poona; fmr. Chief Producer Govt. of India Films Div., mem. Censor Board, Film Advisory Board. Film Enquiry Cttee.; has directed and produced over 60 films 1926-, including King of Ayodhya, Chandrasena, Duniya-na-mane, Shakuntala (first Indian film released in U.S.A.), Ramjoshi, Amar Bhoopali, Jhanak Jhanak Payal Baaje and Do Ankhen Barah Haath (11 awards incl. Berlin Gold Bear, Int. Catholic Award and Hollywood Foreign Press Award). *Address:* Rajkamal Kalamandir Private Ltd., Parel, Bombay 12, India.

SHAPIRO, Ascher H(erman), S.B., SC.D.; American mechanical engineering educator and consultant; b. 20 May 1916, New York City; s. of Bernard Shapiro and Jennie (Kaplan) Shapiro; m. 1st Sylvia Helen Charm 1939, 2nd Regina Julia Lee 1961; one s. two d.; ed. Massachusetts Inst. of Technology; mem. Teaching Faculty M.I.T. 1938-, Ford Prof. of Engineering 1962-75, Chair. of Faculty 1964-65, Head of Dept. of Mechanical Engineering 1965-74, Inst. Prof. 1975-; Visiting Prof., Cambridge Univ. 1955-56; Founder and Chair. Nat. Cttee. for Fluid Mechanics Films 1962-; mem. U.S. Air Force Scientific Advisory Board 1964-66; Councillor, American Acad. of Arts and Sciences 1966-69; mem. Editorial Board M.I.T. Press 1977-; Consultant to Govt. and Industry in propulsion, compressors and turbines, fluid dynamics; mem. Board of Govs., Israel Inst. of Tech.; Fellow, American Acad. of Arts and Sciences, A.S.M.E., A.I.A.A.; mem. Nat. Acad. of Sciences, Nat. Acad. of Engineering; Dr Sc. h.c. (Salford, U.K.) 1978; Naval Ordnance Devt. Award 1945, Joint Certificate for Outstanding Contribution, War and Navy Depts. 1947, Richards Memorial Award of A.S.M.E. 1960, Worcester Reed Warner Medal of A.S.M.E. 1965, Lamme Medal of American Soc. for Eng. Educ. 1977, Townsend Harris Medal (College of the City of New York) 1978. *Publications:* The Dynamics and Thermodynamics of Compressible Fluid Flow Vol. I 1953, Vol. II 1954, Physical Measurements in Gas Dynamics and Combustion (Contrib. to) 1954, Shape and Flow: The Fluid Dynamics of Drag 1961, Handbook of Fluid Dynamics (Contrib. to) 1961; and numerous technical articles in fields of thermodynamics, propulsion, gas dynamics, fluid mechanics, educational films, biomedical engineering. *Address:* Headquarters, Mechanical Engineering Department, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Mass. 02139; 111 Perkins Street, Jamaica Plain, Mass. 02174, U.S.A. (Home). *Telephone:* 617-253-2009 (Office); 617-522-4418 (Home).

SHAPIRO, Eli, PH.D.; American economist and business consultant; b. 13 June 1916, New York; s. of Samuel Shapiro and Pauline Kushel Shapiro; m. Beatrice Ferbend 1946; one s. one d.; ed. Brooklyn Coll., Columbia Univ.; Prof. of Finance, Univ. of Chicago 1946-51; Prof. of Finance and Assoc. Dean M.I.T. 1952-61; Sylvan C. Coleman Prof. of Financial Management, Harvard Univ. 1962-70; Alfred P. Sloan Prof. of Management M.I.T. 1976-; Dir. and Chair. Finance Cttee., The Travelers Corpn. 1971-76, Vice-Chair. The Travelers Corpn. 1976-78. *Publications:* Personal Finance Industry and its Credit Standards (with others) 1939, Money and Banking (with Steiner) 1941, Development of Wisconsin Credit Union Movement 1947, Money and Banking (with Steiner and Solomon) 1958, Corporate Sources and Uses of Funds (with Meiselman) 1963, Money and Banking (with Solomon and White) 1968, The Role of Private Placements in Corporate Finance (with Wolf) 1972, Capital for Productivity and Jobs (with White) 1977. *Address:* Massachusetts Institute of Technology, Cambridge, Mass. 02139; 180 Beacon Street, Boston, Mass. 02116, U.S.A. (Home).

SHAPIRO, Harry L(ionel), A.B., A.M., PH.D.; American anthropologist; b. 19 March 1902, Boston, Mass.: s. of Jacob Shapiro and Rose Clemens Shapiro; m. Janice Sandler Shapiro 1938 (died 1962); two s. one d.; ed. Harvard Univ.; Tutor, Harvard Univ. 1925-26; Asst. Curator, American Museum of Natural History 1926-31, Assoc. Curator 1931-42, Chair. of Dept. of Anthropology and Curator 1942-70, Curator Emer. 1970; Research Prof., Hawaii 1930-35; Prof., Columbia Univ., New York City 1938-73; Prof., Univ. of Pittsburgh 1970; Assoc., Bishop Museum, Honolulu; mem. Board of Dirs. Louise Wise Services 1958-; Sec. American Soc. of Physical Anthropology 1935-39, Vice-Pres. 1941-42; Pres. American Anthropological Assn. 1948, American Ethnological Soc. 1942-43, American Eugenics Soc. 1956-63; Fellow, Nat. Acad. of Sciences, American Acad. of Sciences; mem. Social Science Research Council, American Eugenics Soc.; Hon. mem. Die Anthropologische Gesellschaft, Vienna; mem. Board of Field Foundation; Theodore Roosevelt Distinguished Service Medal 1964; New York Acad. of Sciences Award for Scientific Achievement 1977. *Publications:* Heritage of the Bounty 1936, Migration and Environment 1939, Aspects of Culture 1956, Man, Culture and Society (Editor) 1956, The Jewish People 1960, Peking Man 1975. *Leisure interests:* music, literature, gardening. *Address:* American Museum of Natural History, Central Park West at 79th Street, New York, N.Y. 10024; 26 East 91st Street, New York, N.Y., U.S.A. (Home).

SHAPIRO, Irving S., LL.B.; American business executive; b. 15 July 1916, Minneapolis, Minn.; s. of Samuel and Frieda Shapiro; m. Charlotte Farsht 1942; one s. one d.; ed. Univ. of Minnesota; with U.S. Office of Price Admin. 1942-43; U.S. Justice Dept. 1943-51; E. I. du Pont de Nemours & Co. 1951-, Legal Dept. 1951-65, Asst. Gen. Counsel 1965, Vice-Pres., Dir., mem. Exec. Cttee. 1970, Senior Vice-Pres. 1972, Vice-Chair. Board of Dirs. 1973-74, Chair., Chief Exec. Officer 1974-. *Address:* E. I. du Pont de Nemours & Co., 9000 du Pont Building, Wilmington, Delaware 19898, U.S.A.

SHAPIRO, Jacob Shimshon, LL.B.; Israeli lawyer and politician; b. 1902, Russia; ed. Kharkov Univ. and Law School, Jerusalem; went to Palestine 1924; Co-founder Kibbutz Givat Hashlosha; First Attorney-Gen., Govt. of Israel 1948-49; Minister of Justice 1966-72, 1972-73; Israeli Labour Party. *Address:* 10 K.K.L. Boulevard, Tel-Aviv, Israel.

SHAPIRO, Karl Jay; American poet; b. 10 Nov. 1913; s. of Joseph and Sara Shapiro; m. 1st 1945, 2nd 1967; one s. two d.; ed. Johns Hopkins Univ.; served with U.S. Army 1941-45; Consultant in poetry, Library of Congress 1946-47; Assoc. Prof. of Writing, Johns Hopkins Univ. 1947-50; Ed. Poetry 1950-55; Prof. of Writing, Univ. of Nebraska 1956-66; Prof. of English, Univ. of Illinois at Chicago Circle 1966-68; Prof. of English Univ. of Calif. at Davis 1955-56, 1968-; Editor Prairie Schooner 1956-63; Guggenheim Fellowship 1945-46, 1953-54; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Sciences; Fellow in American Letters, Library of Congress; Hon. D.H.L. (Wayne State) 1960, Hon. D. Litt. (Bucknell) 1972; Jeanette S. Davis Prize 1942; Levinson Prize 1943; Contemporary Poetry Prize 1943; American Acad. of Arts and Letters Grant 1944; Pulitzer Prize (Poetry) 1945; Shelley Memorial Prize 1945; Bollingen Prize for Poetry 1969. *Publications:* Poems 1935, Person, Place and Thing 1942, The Place of Love 1942, V-Letter and Other Poems 1944, Essay on Rime 1945, Trial of a Poet 1947, Bibliography of Modern Prosody 1948, Poems 1942-53 1953, Beyond Criticism 1953, Poems of a Jew 1958; Ed. Newberry Library Bulletin 1953-, In Defence of Ignorance 1960, American Poetry Anthology 1960, The Bourgeois Poet 1964, A Prosody Handbook (with Robert Beum) 1965, To Abolish Children 1968, White-haired Lover 1968, Selected Poems 1968, Edsel (novel) 1971, The Poetry Wreck (selected essays) 1975, Adult Bookstore (poems) 1976, Collected Poems 1940-1978 1978. *Leisure interest:* painting.

Address: 313 Sproul Hall, University of California at Davis, Davis, Calif. 95616 (Office); 3416 Cutter Place, Davis, Calif. 95616, U.S.A. (Home). *Telephone:* 756-2378 (Home).

SHAPLEIGH, Warren McKinney; American business executive; b. 27 Oct. 1920, St. Louis, Mo.; m. Jane Smith 1945; two d.; ed. St. Louis Country Day School, Yale Univ.; U.S. Navy 1942-46; Vice-Pres. Buying & Merchandising, Shapleigh Hardware Co. 1946-56; Pres. Washington Land & Mining Co. 1956-63; Pres. Hipolite Co. 1956-59; Vice-Pres. Sterling Aluminium Products 1959-61; Man. Diversification Planning, Ralston Purina Co. 1961-63, Vice-Pres. Consumer Products Div. 1963-70, Dir. 1966-, Exec. Vice-Pres. 1968-72, Pres. Consumer Products Group 1970-72, Pres. 1972-; Dir. Brown Group Inc., St. Louis 1969-, St. Louis Union Trust Co. 1972-, First Nat. Bank, St. Louis 1972-, J. P. Morgan & Co. 1974-, Morgan Guaranty Trust 1974-, and other cos.; mem. Grocery Mfrs. of America 1961-, Exec. Cttee. Cereal Inst. 1962-72, Board of Dirs., Pet Food Inst. 1962-72; mem. Board of Trustees, Washington Univ. 1966-, Yale Univ. Devt. Board 1971-, Govt. Research Inst., St. Louis 1972-, The Brookings Inst., Washington, D.C. 1972-, and many other civic orgs. *Leisure interests:* skiing, tennis, sailing, gardening. *Address:* Ralston Purina Co., Checkerboard Square, St. Louis, Mo. 63188; 1310 Mason Road, St. Louis, Mo. 63131, U.S.A. (Home).

SHAPP, Milton Jerrold; American state governor; b. 25 June 1912, Cleveland, Ohio; s. of Aaron and Eva Smelsey Shapiro; m. Muriel Matzkin Shapp 1947; one s. two d.; ed. Case Inst. of Technology, Cleveland, Ohio; Founded the Jerrold Corpn. (pioneer company in the community antenna television business) 1946, resigned to stand as governor 1966; Gov. of Pennsylvania 1971-79; Cand. for Dem. nomination for Pres. of U.S.A. 1976; numerous awards and citations; Democrat. *Publications:* various reports. *Leisure interests:* music, art. *Address:* 626 S. Bowman Avenue, Merion, Pa. 19066 U.S.A.

SHARAF, Abdul Hamid; Jordanian diplomatist; fmr. Head, Arab and Palestine Affairs, Ministry of Foreign Affairs; Dir. Broadcasting Service 1963-64; Dir., Political Dept., Ministry of Foreign Affairs; Asst. Chief of Royal Cabinet 1964-65; Minister of Information 1965-67; Amb. to U.S.A. 1967-72, to Canada 1969-72; Perm. Rep. to UN 1972-76. *Address:* c/o Ministry of Foreign Affairs, Amman, Jordan.

SHARBAUGH, H. Robert, M.S.; American business executive; b. 22 Oct. 1928, Pittsburgh, Pa.; s. of Oliver M. and Sadie M. (Wingenroth) Sharbaugh; m. Ivy Gallacher 1951; two s. one d.; ed. Carnegie Inst. of Technology and Mass. Inst. of Technology; joined Sun Oil Co. as junior engineer 1948, Chief Operating Officer 1969-74, Pres. 1970-75, Chief Exec. Officer 1974-78, Chair. Board 1975-79; mem. Board of Dirs. American Petroleum Inst., Girard Co. and Girard Bank Subsidiary; Hon. D.Sc. (Ursinus Coll., Pa.). *Address:* 706 Larchwood Lane, Villanora, Pa. 19087, U.S.A.

SHAREF, Ze'ev; Israeli politician; b. 1906, Bukovina, Romania; m.; three s. one d.; went to Palestine 1925, worked as labourer; joined Kibbutz Givat Brenner 1929; Sec. Israel Sports Org. of Gen. Fed. of Labour in Israel (Histadrut); active in Hagana 1940; Sec. of Political Dept. of Jewish Agency 1943-47; worked on admin. blueprint of Jewish State 1947-48; Sec. of Israel Govt. 1948-57; Dir.-Gen. of Prime Minister's Office 1948-49; Civil Service Commr. 1951-52; Dir. of State Revenue, Ministry of Finance 1954-61; Special Adviser to Prime Minister 1964-65; mem. Knesset 1965-; Chair. of Ports Authority 1962-66; Minister of Commerce and Industry 1966-69, Minister of Finance Aug. 1968-Dec. 1969; Minister of Housing 1969-74; Mapai. *Publication:* Shlosha Yamin (Three Days). *Address:* 25 Shemariahu Levin Street, Jerusalem, Israel.

SHARIF, Omar (Michael Chalhoub); Egyptian actor; b. 10 April 1932, Cairo; s. of Claire and Joseph Chalhoub; m. Faten Hamama 1967; one s.; ed. Victoria Coll., Cairo; Salesman, lumber-import firm; made first film The Blazing Sun 1953; starred in 24 Egyptian films and two French co-production films during following five years; commenced int. film career with Lawrence of Arabia. *Films include:* Lawrence of Arabia, The Fall of the Roman Empire, Behold a Pale Horse, Genghis Khan, The Yellow Rolls-Royce, Doctor Zhivago, Night of the Generals, Mackenna's Gold, Funny Girl, Cinderella-Italian Style, Mayerling, The Appointment, Che, The Last Valley, The Horsemen, The Burglars, The Island, The Tamarind Seed, Juggernaut, Funny Lady, Ace Up My Sleeve, Crime and Passion. *Publication:* The Eternal Male (autobiog.) 1978. *Leisure interests:* bridge and horse racing. *Address:* c/o William Morris Agency (U.K.) Ltd., 147 Wardour Street, London, W.1, England.

SHARIF-EMAMI, Jaffar, G.C.M.G.; Iranian engineer and politician; b. 8 Sept. 1910, Teheran; s. of Haji Mohamed Hossein and Kobra Emami; m. Mrs. Eshrat Moazzami 1946; one s. two d.; ed. Secondary School, Teheran, German Central Railway School and Borås Technical School, Sweden; joined Iranian State Railways 1931, Technical Deputy Gen. Dir. 1942, Gen. Dir. 1950-51; Chair. and Man. Dir. Independent Irrigation Corpn. 1946-50; Under-Sec. of State to Ministry of Roads and Communications, Minister of Roads and Communications 1950-51; mem. High Council, Plan Org. 1951-52, Man. Dir. and Chair. High Council Plan Org. 1953-54; Senator from Teheran 1955-57, 1963-, Pres. of Senate 1963-; Minister of Industry and Mines 1957-60; Prime Minister 1960-61, Aug-Nov 1978; Deputy Custodian Pahlavi's Foundation 1962-; mem. Board of Trustees Queen Pahlavi's Foundation 1966-; Chair. Industrial and Mining Devt. Bank 1963-; Pres. Iranian Assen. of World Federalists 1963-; Pres. Iranian Engineers Assen. 1966-; Pres. Third Constituent Assembly 1967-; Pres. of 22nd Int. Conf. of the Red Cross 1973; Pres. Int. Bankers Assen. 1975; Dir. Red Lion and Sun 1963, Vice-Pres. 1963, Deputy Chair. 1966-; mem. American Soc. of Civil Engineers 1946-, Board of Dirs. Royal Org. of Social Services 1962-, Board of Trustees, Pahlavi Univ. 1962, Nat. Univ. Teheran 1962, Aria Mehr Tech. Univ., Teheran 1965; mem. of Board of Founders of Soc. for Preservation of Nat. Monuments 1966; Iranian decorations: Order of Homayoun (1st Grade), Order of Taj (1st Class) and eight others; foreign decorations incl. Grosses Kreuz Verdienstorden (Germany), Grand Croix de la Légion d'honneur (France), Order of Rising Sun, 1st Class (Japan), Order of St. Michael and St. George (U.K.) and 23 others. *Leisure interests:* sport, swimming, riding, reading. *Address:* 27 avenue Foch II, Paris 16eme, France.

SHARIPOV, Adiy, M.SC.; Soviet politician and writer; b. 1912; ed. Kazakh Pedagogical Inst.; Teacher, secondary school, and special secondary school 1931-40; Soviet Army Service 1940-41; anti-Nazi guerrilla warfare, Byelorussia 1941-44; mem. CPSU 1945-; Deputy Minister, Minister of Educ., Kazakh S.S.R. 1944-63; Vice-Chair. Council of Ministers and Minister for Foreign Affairs, Kazakh S.S.R. 1963-66; First Sec. Board of Kazakh S.S.R. Union of Writers 1966-; mem. Central Cttee. Kazakh CP 1958-; Deputy to U.S.S.R. Supreme Soviet 1966-70; Vice-Chair. Soviet of Union, U.S.S.R. Supreme Soviet 1966-70; Merited Teacher of Kazakh S.S.R. *Publications:* include: Guerilla's Daughter (novel) 1961, Creative Activity of Jumgali Sain (monograph) 1963. *Address:* Kazakh Union of Writers, Alma-Ata, U.S.S.R.

SHARMA, Shanker Dayal, M.A., LL.M., PH.D.; Indian barrister and politician; b. 19 Aug. 1918; ed. Lucknow Univ., Cambridge Univ. and Lincoln's Inn; lawyer 1942-; mem. All India Congress Cttee. 1950-; Pres. Bhopal State Congress Cttee. 1950-52; Chief Minister of Bhopal 1952-56; mem. Cen. Advisory Board of Educ. 1952-64; mem. Consultative Cttees. on Legislation, Bhopal and Madhya Pradesh Legislative Assemblies 1952-64; Minister, Madhya Pradesh Govt. 1956-67; Gen. Sec. Indian Nat. Congress 1968-72; Pres. All India Congress Cttee. 1972-74; mem. Lok Sabha (Parl.) 1971-77; Minister of Communications 1974-77; Served as Chair. and mem. of numerous parl. cttees.; Editor-in-Chief Light and Learning, Ilm-au-Noor; Editor Lucknow Law Journal; Hon. D.P.A. (London), LL.D. (Vikram and Bhopal Univs.) *Publication:* Congress Approach to International Affairs. *Leisure interests:* travel, reading, swimming. *Address:* 135/1 Professor's Colony, Bhopal, India.

SHARON, Major-Gen. Ariel; Israeli army officer (retd.) and politician; b. 1928; active in Hagana since early youth; Instructor, Jewish Police units 1947; Platoon Commdr. Alexandroni Brigade; Regimental Intelligence Officer 1948; Co. Commdr. 1949; Commdr. Brigade Reconnaissance Unit 1949-50; Intelligence Officer, Cen. Command and Northern Command 1950-52; studies at Hebrew Univ. 1952-53; in charge of Unit 101, on numerous reprisal operations until 1957; studies Staff Coll., Camberley, U.K. 1957-58; Training Commdr., Gen. Staff 1958; Commdr. Infantry School 1958-69; Commdr. Armoured Brigade 1962; Head of Staff, Northern Command 1964; law studies, Tel-Aviv Univ. 1966; Head Brigade Group during Six-Day War 1967; resigned from Army July 1973; recalled as Commdr. Cen. Section of Sinai Front during Yom Kippur War Oct. 1973, forged bridgehead across Suez Canal; with others formed Likud Front Sept. 1973; mem. Knesset (Parl.) 1973-74, 1977-; Adviser to Prime Minister 1975-; Minister of Agric. June 1977-. *Address:* Ministry of Agriculture, Jerusalem, Israel.

SHARP, Margery, B.A.; British writer; ed. London Univ. *Publications:* The Flowering Thorn, Four Gardens 1935, The Nutmeg Tree 1937 (play, U.S.A. 1940, England 1941), Cluny Brown 1944, Britannia Mews 1946, The Foolish Gentlewoman 1948 (play, England 1949), Lise Lillywhite 1951, The Gypsy in the Parlour 1954, The Eye of Love 1957, The Rescuers 1959, Something Light 1960, Martha in Paris 1962, Miss Bianca (for children) 1962, The Turret

1963, Martha, Eric and George 1964, The Sun in Scorpio 1965, Miss Bianca in the Salt Mines (for children) 1966, Lost at the Fair (for children) 1967, In Pious Memory 1968, Rosa 1969, Miss Bianca in the Orient (for children) 1970, Miss Bianca in the Antarctic (for children) 1971, The Innocents 1971, Miss Bianca and the Bridesmaid (for children) 1972, The Lost Chapel Picnic 1973, The Faithful Servants 1975, Bernard the Brave (for children) 1976, Summer Visits 1977, Bernard into Battle (for children) 1978. *Address:* 32 Crag Path, Aldeburgh, Suffolk, England.

SHARP, Hon. (William) Mitchell, B.A.; Canadian government official; b. 11 May 1911, Winnipeg, Manitoba; s. of Thomas and Elizabeth (Little) Sharp; m 1st Daisy Boyd 1938 (deceased), one s.; m. 2nd Jeannette Dugal 1976; Director Econ. Policy Div. of Dept. of Finance 1947; M.P. 1963-78 (resigned); fmr. Deputy Minister of Trade and Commerce; fmr. Vice-Pres. Brazilian Traction Co.; Minister of Trade and Commerce 1963-65, of Finance 1965-68; Sec. of State for External Affairs 1968-74; Pres. of Privy Council, Leader of House of Commons 1974-76 (resigned); Commr. Northern Pipeline Agency. *Address:* P.O. Box 160S, Station B, Ottawa, K1P 5AO, Canada.

SHAUB, Harold A.; American business executive; b. 28 Nov. 1915, Lancaster County, Pa.; s. of Arthur and Clara Cramer Shaub; m. Eileen Bair 1939; one s. two d.; ed. Drexel Univ.; Asst. Plant Man., Campbell Soup Co., Chicago 1956-57; Vice-Pres.-Gen. Man., Campbell Soup Co., Ltd., Toronto 1957-60, Pres. 1960-66; Senior Vice-Pres. Campbell Soup Co., Camden, N.J. 1968-70, Exec. Vice-Pres. and Dir. 1970-72, Pres. and Chief Exec. Officer 1972-; Pres. Pepperidge Farm Inc., Norwalk, Conn. 1966-68; Chair. Penjerdel Corpn., Board of Trustees Drexel Univ.; Regional Vice-Pres. and Dir. Nat. Assn. of Mfrs.; dir. numerous commercial concerns. *Leisure interests:* golf, curling, fishing, hunting. *Address:* Campbell Soup Company, Campbell Place, Camden, N.J. 08101, U.S.A.

SHAW, Irwin, B.A.; American writer; b. 27 Feb. 1913, New York City; s. of William and Rose Shaw, m. Marion Edwards 1939; one s.; ed. Brooklyn Coll.; fmrly. worked on radio; served in U.S. Army in Europe and Africa during Second World War; contributor to The New Yorker, Esquire, etc. *Publications:* Plays: Bury the Dead, Siege, The Gentle People, Retreat to Pleasure, Sons and Soldiers, The Assassin, The Survivors (with Peter Viertel), Children from their Games; Short Stories: Sailor off the Bremen, Welcome to the City, Act of Faith, Mixed Company, Tip on a Dead Jockey, Whispers in Bedlam, Love on a Dark Street, God Was Here But He Left Early, Five Decades 1979; Novels: The Young Lions, The Troubled Air, Lucy Crown, Two Weeks in Another Town, Voices of a Summer Day, Rich Man, Poor Man 1970, Evening in Byzantium 1973, Nightwork 1975, Beggarman, Thief 1977; Travel: In the Company of Dolphins, Paris! Paris! (with Ronald Searle) 1977. *Address:* P.O. Box 39, Klosters, Switzerland; c/o Weidenfeld and Nicolson, 11 St. John's Hill, London, S.W.11, England.

SHAWCROSS, Baron (Life Peer), cr. 1959, of Friston; **Hartley William Shawcross,** Kt., P.C., G.B.E., Q.C., LL.D.; British jurist, politician and businessman; b. 4 Feb. 1902, Giessen, Germany; s. of John and Hilda Shawcross; m. Joan Winifred Mather (died 1974); two s. one d.; ed. Dulwich Coll. and abroad; called to Bar 1925; Senior Law Lecturer Liverpool Univ. 1927-34; Deputy Regional Commr. S.E. Region 1941; Regional Commr. N.W. Region 1942-45; Recorder of Salford 1941-45; Chair. Catering Wages Comm. 1943-45; Asst. Chair. East Sussex Quarter Sessions 1941; Labour M.P. for St. Helens 1945-58; Attorney-General 1945-51; Pres. Board of Trade April-Nov. 1951; Judge of Int. Court of Arbitration, The Hague; Chair. Royal Comm. on the Press 1961-62; Chair. British Medical Research Council 1962-65; Chair. "Justice" (British branch of Int. Comm. of Jurists) 1956-73; Chief Prosecutor, Nuremberg Trials 1945-46; U.K. del. UN 1945-49; withdrew from Labour Party 1958; mem. Monckton Comm. 1959-60 (resigned); Pres. Rainer Foundation until 1972; Chair. Int. Chamber of Commerce Special Comm. of Eminent Persons on Ethical Practices; Chair. Dominion Lincoln Assurance Co. Ltd., Thames Television Co. Ltd. 1969-74, Upjohn and Co. Ltd. to 1977, City of London Panel on Takeovers and Mergers 1969-, Press Council 1974-78, London and Continental Bankers 1974-; Dir. Shell Transport and Trading Co. Ltd. until 1973, EMI Ltd. European, Enterprises Devt. Co. S.A. (Luxembourg), Hawker Siddeley Group Ltd., Times Newspapers Ltd. 1967-74, Ranks, Hovis Macdougall Ltd. until 1977 (consultant 1977-), Caffyns Ltd. (now Deputy Chair.), Morgan et Cie. S.A., Morgan et Cie. International S.A. until 1976; Special Adviser to Morgan Guaranty Trust Co. of New York; mem. Court of London Univ. until 1978; Sussex Univ. Exec. Council, Pro-Chancellor 1962-65, Chancellor 1965-; mem. Int. Cttee. of Jurists, Board of Trustees, American Univ. of Beirut, Council of Int. Chambers of Commerce; Hon. mem. New York and American Bar Asscns.; Hon. LL.D. (Columbia, Bristol, Michigan, Lehigh, Liverpool, Hull Univs.); Hon. D.C.L. (New Brunswick Univ. and London). *Leisure interest:* yachting. *Address:* Friston Place, Sussex; 12 Grays Inn Square, London, W.C.1, England. *Telephone:* East Dean 2206; and 01-242 5500.

SHAWE-TAYLOR, Desmond Christopher, C.B.E.; British music critic; b. 29 May 1907; s. of Frank and Agnes Shawe-Taylor (née Ussher); ed. Shrewsbury School, Oriel Coll., Oxford; Music critic, New Statesman 1945-58, Sunday Times 1958-; Guest music critic, New Yorker 1973-74; served in Royal Artillery 1939-45. *Publications:* Covent Garden 1948, The Record Guide (with Edward Sackville-West, later Lord Sackville) 1951-56. *Leisure interests:* travel, croquet, gramophone. *Address:* Long Crichel House, Wimborne, Dorset; 15 Furlong Road, London, N7 8LS, England. *Telephone:* Tarrant Hinton 250; 01-607 4854.

SHAWN, William; American editor; b. 31 Aug. 1907; ed. Univ. of Michigan; Reporter, Las Vegas (N.M.) Optic 1928; Midwest Editor Int. Illustrated News, Chicago 1929; reporter The New Yorker 1933-35, Assoc. Editor 1935-39, Man. Editor 1939-52, Editor The New Yorker 1952-. *Address:* 25 West 43rd Street, New York, N.Y. 10036 (Office); 1150 Fifth Avenue, New York, N.Y. 10028, U.S.A. (Home).

SHAZLY, Lt.-Gen. Saad Mohamed el-Hosseiny el-, M.POL.SC.; Egyptian army officer and diplomatist; b. 1 April 1922, Cairo; s. of Mohamed el-Hosseiny el-Shazly and Tafida Ibrahim el-Shazly; m. Zeinat Mohamed Metwally 1942; ed. Khedive Ismail Secondary School, Cairo, Cairo Univ., Mil. Coll., and in U.S.S.R; Officer of the Guards 1943-48; Platoon Commdr. Arab-Israeli War 1948; Commdr. of Parachute School 1954-56; Commdr. of Parachute Battalion 1956-58; Commdr. United Arab Repub. Contingent, UN, Congo 1959-60; Defence Attaché, London 1961-63; Brig. Commdr. in Yemen Civil War 1965-66; Commdr. Shazly Group, Egyptian-Israeli War 1967; Commdr. of Special Forces 1967-69; Commdr. Red Sea District 1970-71; Chief of Staff of Egyptian Armed Forces 1971-73; Amb. to U.K. 1974-75, to Portugal 1975-78; holder of twenty-two decorations including Order of the Repub., 1st Class, Etoile d'honneur, Médaille mil. du Courage, Médaille du Congo, Knight, Syrian Order of Honour. *Leisure interests:* gliding, shooting, fencing, golf, camping, chess. *Address:* 39 Gamal Eldin Eldessuky, Helipolis, Cairo, Egypt.

SHCHELOKOV, Gen. Nikolay Anisimovich; Soviet politician; b. 26 Nov. 1910, Almaznaya; ed. Dnepropetrovsk Metallurgical Inst.; mem. CPSU 1931-; Miner 1926-32; Engineer 1933-38; Local Govt. and Party work 1938-41; Army service 1941-46; Head of Dept., Central Cttee. of CP of Ukraine 1947-51; First Vice-Chair., Council of Ministers of Moldavian S.S.R. 1951-62, 1965; Chair. Moldavian Council of Nat. Econ. 1957-58, 1962-65; Second Sec., Central Cttee. of Moldavian CP 1965-66; U.S.S.R. Minister of Public Order 1966-69, of the Interior 1969-; Cand. mem. CPSU Cen. Cttee. 1966-68, mem. 1968-; Deputy to U.S.S.R. Supreme Soviet 1954-; Order of October Revolution, Order of Lenin (3 times), Order of Red Banner (twice) and numerous Soviet and foreign orders and medals. *Address:* Ministry of the Interior, 5 Ulitsa Ogareva, Moscow, U.S.S.R.

SHCHERBACHEVICH, Aleksey Florianovich; Soviet diplomatist; b. 12 Oct. 1913, St. Petersburg (now Leningrad); ed. Novosibirsk Inst. of Geodesy Engineers and High Diplomatic School, Ministry of Foreign Affairs; at Ministry of Foreign Affairs, U.S.S.R. until 1954; Second Sec. Soviet Embassy, Finland 1954-56; ranking official, Ministry of Foreign Affairs 1956-60, 1964-67; First Sec., Soviet Embassy, Argentina 1960-64; Counsellor Soviet Embassy, Chile 1967-70; Amb. to Bolivia 1970-75. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

SHCHERBITSKY, Vladimir Vasiliyevich; Soviet politician; b. 17 Feb. 1918, Verkhnedneprovsk; ed. Dnepropetrovsk Chemical Engineering Inst.; Instructor, Young Communist League District Cttee. 1934-35; served Soviet Army 1941-45; mem. CPSU 1941-, Ukraine Supreme Soviet 1935; mem. Presidium Ukraine Communist Party 1957; Sec. Central Cttee. 1957-61; Prime Minister of Ukraine 1961-63 and Oct. 1965-May 1972; Cand. mem. of Presidium of the Central Cttee. of CPSU 1961-63, 1965-66, Cand. mem. Politburo 1966-71, mem. 1971-; First Sec. Dnepropetrovsk Industrial Regional Cttee. CP of Ukraine 1963-65; First Sec. Dnepropetrovsk Regional Cttee. CP of Ukraine 1964-65; mem. Cen. Cttee. of CPSU 1961-; First Sec., Cen. Cttee. CP of Ukraine May 1972-; Deputy to U.S.S.R. Supreme Soviet 1958-; mem. Presidium of U.S.S.R. Supreme Soviet 1972; Order of Lenin (6 times), Order of October Revolution, Hero of Socialist Labour (twice) and other decorations. *Address:* Central Committee of the Communist Party of the Ukraine, Kiev, U.S.S.R.

SHCHUKIN, Lt. Gen. Aleksandr Nikolayevich; Soviet radio engineer; b. 22 July 1900, St. Petersburg (now Leningrad); ed. Leningrad Electrotechnical Inst.; Instructor, Leningrad Electrotechnical Inst. 1929-41, Prof. 1933-; Leningrad Naval Acad. 1933-45; Corresp. mem., U.S.S.R. Acad. of Sciences 1946-53, mem. 1953-; mem. CPSU 1944-; Presidium mem. Lenin Prize Cttee. for Science and Technology 1960-, Deputy Head 1965-69; Head of Scientific Council of U.S.S.R. Acad. of Sciences (dealing with problem of spread of radio waves) 1969-; Hero of Socialist Labour (twice), U.S.S.R. State Prize, Order of Lenin (5 times) and other decorations. *Publications:* numerous works on radio engineering. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

SHEA, Joseph Francis; American scientist; b. 5 Sept. 1926; ed. Univ. of Michigan; Instructor, Eng. Mechanics, Univ. of Mich. 1948-50, 1953-55; Research Mathematician, Bell Telephone Lab. 1950-53, Devt. Engineer 1955-59; Dir., Advanced System R. and D., and Man. Titan Inertial Guidance Program, A.C. Spark Plug 1959-61; Space Program Dir. Space Technology Lab. 1961-62; Deputy Dir., Manned Space Flight (Systems), Nat. Aeronautics and Space Admin. 1962-63, Program Manager Apollo Spacecraft, Manned Spacecraft Center 1963-67; Deputy Assoc. Man. for Manned Space Flight April-July 1967; Vice-Pres. Polaroid Corpn. 1967-68; Sr. Vice-Pres. and Gen. Man. equipment division, Raytheon Co. 1968-. *Address:* 15 Dogwood Road, Weston, Mass. 02193, U.S.A.

SHEARER, Rt. Hon. Hugh Lawson; Jamaican politician; b. 18 May 1923, Martha Brae, Trelawny; ed. St. Simon's Coll.; journalist Jamaica Worker 1941-47; mem. Kingston and St. Andrew Corpn. 1947-51; mem. House of Reps. 1955-59; mem. Legislative Council (now Senate) 1961-66; Minister without Portfolio and Leader of Govt. Business in the Senate 1962-67; Deputy Leader Jamaica Labour Party 1967-74; Jamaican del. to UN 1962-72; Prime Minister, Minister of Defence and Minister of External Affairs 1967-72; Leader of the Opposition 1972-74; Island Supervisor, Bustamante Industrial Trade Union 1953, Vice-Pres. 1960-; Hon. LL.D. (Howard Univ.). *Address:* Bustamante Industrial Trade Union, 98 Duke Street, Kingston, Jamaica.

SHEARES, Benjamin Henry, L.M.S., M.D., M.S., F.R.C.O.G., F.A.C.S.; Singapore doctor and Head of State; b. 12 Aug. 1907, Singapore; s. of Edwin H. Sheares and Lilian J. Gomes; m. Yeo Seh Geok; two s. one d.; ed. St. Andrew's School, Raffles Inst., and King Edward VII Coll. of Medicine, Singapore; Asst. Medical Officer, Outram Road Gen. Hospital 1929-31; Head Dept. of Obstetrics and Gynaecology, Kandang Kerbau Hosp., also Medical Supt. 1942-45; Acting Prof. King Edward VII Coll. of Medicine 1945; Hon. Consultant, British Military Hosp. 1948; Prof. of Obstetrics & Gynaecology, Univ. of Malaya in Singapore 1950-60; private practice 1960-; Hon. Consultant Kandang Kerbau Hosp. 1960-; Pres. of the Repub. of Singapore Jan. 1971-; Hon. Fellow Royal Soc. of Medicine 1975-; Litt. D. h.c., G.C.B.; Dato of Kedah and also of Kelantan (Malaysia), Star of Indonesia 1974, Ancient Order of Sikatuna (Raja) (Philippines) 1976. *Publications:* about 20 articles on obstetrics and gynaecology in professional journals. *Leisure interests:* swimming, theatre and cinema. *Address:* The Istana, Singapore 9. *Telephone:* 375522.

SHEEHAN, John C(lark), PH.D.; American professor of organic chemistry; b. 23 Sept. 1915, Battle Creek, Mich.; m.; three c.; ed. Univ. of Michigan; Research Assoc., Nat. Defense Research Cttee. Project Michigan 1941; Research Chemist Merck and Co., N.J. 1941-46; Asst. Prof. of Chemistry, M.I.T. 1946-49, Assoc. Prof. 1949-52, Prof. of Organic Chemistry 1952-, Camille Dreyfus Prof. of Chemistry 1969-; held editorial posts on scientific journals; fmr. Consultant to Arms Control and Disarmament Agency, U.S. State Dept.; Consultant to the President's Scientific Advisory Cttee. (Office of Science and Technology); Reilly Lecturer Univ. of Notre Dame 1953, Swiss-American Foundation Lecturer 1958, McGregory Lecturer 1958, A. H. Robins Lecturer 1975; fmr. mem. and Chair. of numerous scientific cttees.; mem. American Chemical Soc. (Chair. Div. of Organic Chemistry 1959-60, Past Chair. Grants and Fellowships Cttee., mem. Nat. Finance Cttee., Chair. Int. Activities Cttee.), Nat. Acad. of Sciences, American Acad. of Arts and Sciences, New York Acad. of Arts and Sciences, Chemical Soc., London; Hon. D.Sc. (Notre Dame); American Chemical Soc. Award in Pure Chemistry 1951, American Chemical Soc. Award for Creative Work in Synthetic Chemistry 1959, John Scott Award and Medal of City of Philadelphia 1964, Synthetic Organic Chemical Mfrs. Assn. Medal 1969, Outstanding Achievement Award 1971. *Leisure interests:* tennis, boating, colour photography. *Address:* Department of Chemistry, Massachusetts Institute of Technology, Cambridge, Mass. 02139; 10 Moon Hill Road, Lexington, Mass. 02173, U.S.A. (Home).

SHEEHAN, H.E. Cardinal Lawrence Joseph; American ecclesiastic; b. 18 March 1898; ed. St. Charles Coll., Catonsville, St. Mary's Seminary, Baltimore and North American Coll., Rome; ordained priest 1922; Asst. St. Patrick's Church, Washington, D.C. 1922-45, parish priest 1941-45; named Titular Bishop of Lydda and Auxiliary to the Archbishop of Baltimore and Washington 1945; Pastor of St. Philip and St. James Church, Baltimore 1945-53; first Bishop of Bridgeport, Connecticut 1953-61; Co-adjutor Archbishop of Baltimore 1961, Archbishop 1961-74; created Cardinal 1965; mem. Secretariat for Promotion of Christian Unity 1964-; Consultor, Comm. for Revision of Code of Canon Law 1964-; Chair. Bishops' Comm. for Ecumenical Affairs 1964-; Press Dept. Nat. Catholic Welfare Conf. 1964-. *Address:* 408 North Charles Street, Baltimore, Md. 21201, U.S.A.

SHEEN, Most Rev. Fulton John, J.C.B., PH.D., S.T.D.; American Roman Catholic bishop; b. 8 May 1895, El Paso, Ill.; s. of Newton and Delia Fulton Sheen; ed. St. Viator Coll., Catholic Univ. of America, Angelicum Coll., Rome, and Louvain Univ., Belgium (Agrégé en Philosophie); ordained 1919; Papal Chamberlain 1934; Domestic Prelate 1935; Nat. Dir. Society for the Propagation of the Faith 1950-66; Prof. of Philosophy, Catholic Univ. of America 1926-50; Auxiliary Bishop of New York 1951-66; Bishop of Rochester 1966-69; Titular Archbishop of Newport 1969-; Titular Bishop of Caesariana 1951-; radio and television series for many years; editor World-mission and Mission; Episcopal Synod 1967; Hon. LL.D., Hon. Litt.D., Hon. L.H.D.; Cardinal Mazella Philosophy Medal (Georgetown Univ.). *Publications:* God and Intelligence 1925, Life of All Living 1929, Divine Romance 1930, Eternal Galilean 1934, Moral Universe 1936, Cross and Beatitudes 1937, God and Country 1941, Declaration of Dependence 1941, God and War and Peace 1942, Love One Another 1944, Communism and the Conscience of the West 1948, Lift Up Your Heart 1950, Way to Happiness 1954, God Love You 1955, Life is Worth Living, IV and V, 1956 and 1957, Life of Christ 1958, This is the Mass 1958, This is Rome 1960, Go to Heaven 1960, This is the Holy Land 1961, These are the Sacraments 1962, The Priest is not his own 1963, Missions and the World Crisis 1963, The Power of Love 1964, Christmas Inspirations 1966, Lenten and Easter Inspirations, Guide to Contentment, The Quotable Bishop Sheen, Footprints in a Darkened Forest 1967, Parents and Children 1970, Those Mysterious Priests 1974, etc. *Leisure interests:* tennis, reading. *Address:* 205 East 78th Street, New York, N.Y. 10021, U.S.A.

SHEHU, Mehmet; Albanian politician; b. 10 Jan. 1913; ed. Tirana Technical Coll., higher studies in France; fought in Spanish Civil War; Chief of Staff Albanian Nat. Army 1946; mem. Political Bureau Albanian Party of Labour 1948-; Vice-Pres. Council of Ministers and Minister of the Interior 1948-54; Chair. Council of Ministers July 1954-, also Minister of Nat. Defence Oct. 1974-. *Address:* Office of the Council of Ministers, Tirana, Albania.

SHEIKHLY, Abdul Kareem Abdul Sattar Al-; Iraqi politician; b. 14 June 1937, Baghdad; m. Sawsaw Al-Sheikhly 1971; one s. one d.; political emigré in Cairo 1960-63; Asst. Attaché Iraqi Embassy, Beirut 1963-64; Minister of Foreign Affairs 1968-71; Perm. Rep. to UN 1971-77. *Address:* c/o Ministry of Foreign Affairs, Baghdad, Iraq.

SHELEPIN, Aleksandr Nikolayevich; Soviet politician and fmr. trade union official; b. 18 Aug. 1918, Moscow; ed. Moscow Inst. of History, Philosophy and Literature; held exec. positions in Moscow City Cttee. of Young Communist League 1943-52; Sec. Cen. Cttee. of Young Communist League, and also mem. U.S.S.R. Cttee. for Physical Culture and Sports under U.S.S.R. Council of Ministers 1945-53; First Sec., Cen. Cttee. of the Lenin Young Communist League 1952; mem. Cen. Cttee. CPSU 1952; Deputy to U.S.S.R. Supreme Soviet 1954-; mem. U.S.S.R. Slav Cttee.; Chair. State Security Cttee. Dec.1958-61; mem. Secr. of the Presidium of the Cen. Cttee. of CPSU 1961-64, 1966-Sept. 1967, of Presidium 1964-66, of Political Bureau 1966-75; Chair. CP Cttee. of Party State Control 1962-65; Deputy Chair. Council of Ministers 1962-65; Chair. All-Union Council of Trade Unions 1967-75; awarded Order of Lenin (twice), Order of the Red Star, and other decorations. *Address:* Central Committee of the CPSU, Moscow, U.S.S.R.

SHELEST, Pyotr Yefimovich; Soviet politician; b. 1908; ed. Mariupol Metallurgical Inst.; mem. CPSU 1928-; Engineer, Mariupol and Kharkov 1932-41; party work, Chelyabinsk, Moscow, Suratov, Leningrad and Kiev 1941-54; Second Sec., Kiev City Cttee., Ukraine CP, later Second Sec. Kiev Regional Cttee. 1954-57, First Sec. 1957-62; mem. Presidium Cen. Cttee. of Ukraine CP

1961-73, Sec. Cen. Cttee. 1962-63, First Sec. 1963-65, 1966-72; mem. Cen. Cttee of CPSU 1961-76, Candidate mem. 1963-64, Presidium mem. 1964-66, mem. Politburo 1966-73; mem. Presidium of Supreme Soviet of U.S.S.R. 1966-72; Deputy Chair. U.S.S.R. Council of Ministers 1972-73; Hero of Socialist Labour 1968, Orders of Lenin, Hammer and Sickle Gold Medal, and other decorations.

SHEMIN, David, B.S., A.M., PH.D.; American professor of biochemistry; b. 18 March 1911, New York City; s. of Louis Shemin and Mary Bushkoff Shemin; m. 1st Mildred Sumpter (died 1962), 2nd Charlotte Norton 1963; two d.; ed. Coll. of City of New York and Columbia Univ.; Asst. Prof. of Biochem., Columbia Univ. 1945-49, Assoc. Prof. 1949-53, Prof. 1953-68; Prof. of Biochem., Northwestern Univ. 1968-, Chair. Dept. of Biochem.; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Guggenheim Fellowship, Commonwealth Fund Fellow. *Publications:* Biosynthesis of Porphyrins (Harvey Lecture) 1955; Editor Biochemical Preparations Vol. 5 1957; about 100 publs. in scientific journals dealing with amino acid metabolism, porphyrin and B12 synthesis, enzymology. *Leisure interests:* reading, music, photography, gardening, tennis, swimming, snorkling and jogging. *Address:* Department of Biochemistry and Molecular Biology, Northwestern University, Evanston, Ill. 60201; 902 Lincoln Street, Evanston, Ill. 60201, U.S.A. *Telephone:* 312-492-5060 (Office); 312-491-9898 (Home).

SHEN, James C.H., M.A.; Chinese diplomatist; b. 15 June 1909; ed. Yenching Univ., Peiping, Univ. of Missouri, Columbia, U.S.A.; Editor Cen. News Agency, Nanking 1936-37; Chief Editorial Section, Int. Dept., Ministry of Information, Chungking 1938-43; Dir. Pacific Coast Bureau, Ministry of Information 1943-47; Dir. of Int. Dept., Govt. Information Office 1947-48, Dir.-Gen. 1961-66; Sec. to Pres. of Repub. of China, Taipei 1956-59; Dir. of Information Dept., Ministry of Foreign Affairs, Taipei 1959-61; Amb. to Australia 1966-68; Vice-Minister of Foreign Affairs 1968-71; Amb. to U.S.A. 1971-79; Faculty-Alumni Gold Medal (Univ. of Missouri) 1972. *Address:* c/o Ministry of Foreign Affairs, Taipei, Taiwan.

SHENOUDA III, Anba, B.A., B.D.; Egyptian ecclesiastic; b. 3 Aug. 1923; ed. Cairo Univ. and Coptic Orthodox Theological Coll.; theological teacher and writer; fmr. Bishop and Prof. of Theology, Orthodox Clerical Coll., Cairo; 1st Chair., Assen. of Theological Colls. in the Near East; 117th Pope of Alexandria and Patriarch of the See of St. Mark of Egypt, the Near East and All Africa (Coptic Orthodox Church) 1971-. *Address:* Coptic Orthodox Patriarchate, Anba Ruiess Building, Ramses Street, Abbasiya, Cairo, Egypt.

SHEPARD, Alan B., Jr.; American astronaut; b. 18 Nov. 1923, E. Derry, N.H.; m. Louise Brewer; two d.; ed. U.S. Naval Acad.; destroyer service in Pacific, U.S. Navy, Second World War; naval flight experience 1947-58; graduated from Naval War Coll., Newport, R.I. 1958; Air Readiness Officer, Staff of C.-in-C. Atlantic Fleet 1958-59; selected by NASA as astronaut April 1959; pilot of Mercury-Redstone III (sub-orbital flight, and first American in space) 1961; Chief, Astronaut Office 1965-74; Commdr. Apollo XIV Jan.-Feb. 1971; partner, Marathon Construction Co., Houston 1974-; Pres. Windward Distributing Co., Houston 1974-; NASA Distinguished Service Medal 1961; U.S. Nat. Space Hall of Fame Award 1969, Langley Medal 1969, Congressional Medal of Honor (Space) 1978.

SHEPARD, Horace Armor; American business executive; b. 15 Nov. 1912, Purvis, Miss.; s. of Horace and Carolyn (Hand) Shepard; m. Lucy Dunbar 1937; three d.; ed. Murphy High School and Auburn Univ.; U.S. Air Force 1935-51, Brig. Gen. 1947; Dir. of Procurement and Engineering U.S.A.F. Headquarters 1950-51; Vice-Pres., Asst. to Gen. Manager, Thompson Ramo Wooldridge Inc. 1951-57, Vice-Pres. and Gen. Manager 1961-62, Pres. 1962-69, Chair. of Board 1969-77; Legion of Merit. *Address:* RD 1, Box 311D, Old Mill Road, Gates Mills, Ohio 44040, U.S.A. *Telephone:* (216) 461-8877 (Home).

SHEPHEARD, Peter Faulkner, C.B.E., B.ARCH.; British architect, town planner and landscape architect; b. 11 Nov. 1913, Birkenhead; s. of Thomas Faulkner Shepheard, F.R.I.B.A., and Catherine Emily Shepheard; m. Mary Bailey 1943; one s. one d.; ed. Birkenhead School, Liverpool School of Architecture. Asst. to Derek Bridgwater 1937-40; Royal Ordinance Factories, Ministry of Supply 1940-43; Technical Officer on Greater London Plan, later on Research and Master Plan, Stevenage New Town, Ministry of Town and Country Planning 1943-47; Deputy Chief Architect and Planner, Stevenage Devt. Corpn. 1947-48; private practice 1948-; Visiting Prof. of Landscape Architecture, Graduate School of Fine Arts, Univ. of Pennsylvania 1959-70, Prof. of Architecture and Environmental Design 1971-, Dean 1971-78; Pres. Royal Inst. of British Architects (RIBA) 1969-71; Pres. Architectural Assen. 1954-55, Inst. of Landscape Architects 1965-66; mem. Royal Fine Art Comm. 1968-71, Countryside Comm. 1968-71; Artistic Advisor, Commonwealth War Graves Comm. 1977-; R.I.B.A. Distinction in Town Planning 1956; Hon. Fellow, Royal Architectural Inst. of Canada 1972, American Inst. of Architects 1973. *Publications:* Modern Gardens 1963, Gardens 1969, Illustrator A Book of Ducks and Woodland Birds. *Leisure interests:* music, poetry, drawing, gardening. *Address:* 7 Eton Villas, London, N.W.3, England; 204 West Chestnut Hill Avenue, Philadelphia, Pa. 19118, U.S.A. *Telephone:* 01-722 7115 (London).

SHEPHERD, 2nd Baron, cr. 1946, of Spalding; **Malcolm Newton Shepherd,** P.C.; British politician; b. 27 Sept. 1918, Blackburn; s. of George Robert and Ada Shepherd; m. Allison Redmond 1941; two s.; ed. Friends' School, Saffron Walden; Opposition Chief Whip, House of Lords 1963-64, Govt. Chief Whip 1964-67, Minister of State, Commonwealth Office 1967-68, Foreign and Commonwealth Office 1968-70; Deputy Leader of House of Lords 1967-70, Deputy Leader of the Opposition, House of Lords 1970-74; Lord Privy Seal, Leader of House of Lords 1974-76 (resigned); Chair. Packaging Council, Nat. Bus Co. 1978; Deputy Chair. Sterling Group of Cos. 1976; Chair. Medical Research Council 1978-; mem. Health Educ. Council 1978; Adviser, Sun Hung Kai Securities, Hong Kong 1978-; Labour. *Leisure interest:* golf. *Address:* Queen Anne's Chambers, 41 Tothill Street, London S.W.1, England. *Telephone:* 01-273 4465.

SHEPILOV, Dmitriy Trofimovich; Soviet journalist and politician; Dir. Propaganda and Agitation Dept., Cen. Cttee. CPSU 1949, full mem. Cen. Cttee. 1952, and one of its Secs. 1954; Chief Editor Pravda 1952-56; mem. Supreme Soviet Council of Nationalities 1954 and Chair. Foreign Affairs Comm.; mem. Soviet Del. to China 1954, to Yugoslavia 1955, and to Egypt 1955 and 1956; Minister of Foreign Affairs 1956-57; Dir. Inst. of Econ. Acad. of Sciences of Kirghiz S.S.R. 1957-62; engaged in scientific work 1962-. *Address:* Academy of Sciences, Moscow, U.S.S.R.

SHEPLEY, James Robinson; American publishing executive; b. 16 Aug. 1917, Harrisburg, Pa.; ed. Dickinson Coll.; Reporter Daily Patriot, Harrisburg, Pittsburgh Press and United Press; Washington correspondent Time and Life magazines 1942-45; Capt. and Staff Officer Potsdam Conf. 1945; attached U.S. Chief of Staff 1945-46; with Time 1946, Chief Washington news bureau 1948-57, Chief Time-Life U.S. and Canadian bureaux 1957-60; with Nixon Presidential campaign 1960; Asst. publisher Life 1960-63, publisher Fortune 1964-67, Time 1967-69; Pres. Time Inc. 1969-; War Dept. Citation. *Publication:* The Hydrogen Bomb 1954 (co-author). *Address:* Time-Life Building, Rockefeller Center, New York, N.Y. 10020, U.S.A.

SHEPPARD, Richard, C.B.E., R.A., F.R.I.B.A.; British architect; b. 2 July 1910, Bristol; s. of William Sheppard and Hilda (née Kirby-Evans); m. 1st Jean Shufflebotham, A.R.I.B.A. 1938, one s. one d.; m. 2nd Marjorie Head 1976; ed. Bristol Grammar School, Royal West of England Acad. School of Architecture, Bristol, Architectural Assen. School of Architecture; asst. in various offices 1934-37; Staff, Architectural Assen. School of Architecture 1937-41; private practice 1937-, Senior Partner Richard Sheppard, Robson & Partners; numerous Royal Inst. of British Architects Awards and Civic Trust Awards (Architecture). Buildings designed by partnership include: City Univ., London; Brunel Univ.; Science and Arts Bldgs., Univ. of Newcastle; Churchill Coll., Cambridge; Manchester Polytechnic; Worcester Technical Coll.; Campus West, Theatre and Social Amenities Centre, Welwyn Garden City; Gwent Square, Cwmbran New Town, Monmouthshire; Waltham Cross Cen. Area Redevt.; West Midlands Teachers' Training Coll., Walsall. *Publications:* Building for the People 1945, Prefabrication and Building 1946, and many technical articles. *Leisure interest:* looking at the work of others. *Address:* Richard Sheppard, Robson & Partners, 77 Parkway, London, NW1 7PU (Office); The Old Rectory, Little Berkhamsted, nr. Hertford, Herts., England (Home). *Telephone:* 01-485 4161 (Office); Cuffley 5066 (Home).

SHERER, Albert William, Jr., LL.B.; American diplomatist; b. 16 Jan. 1916, Wheaton, Ill.; s. of Albert W. Sherer and Linda van Nostrand; m. Carroll Russell Sherer 1944; three c.; ed. Yale and Harvard Univs.; Amb. to Togo 1967-70, to Guinea 1970-72, to Czechoslovakia 1972-75 and concurrently Chief U.S. Del. to Conf. on Security and Co-operation in Europe, Geneva 1974-75; mem. U.S. Mission to UN 1975, Deputy U.S. Rep., Security Council 1975-. *Leisure interests:* tennis, golf, gardening. *Address:* United States Mission to the United Nations, 799 United Nations Plaza, New York, N.Y. 10017, U.S.A. *Telephone:* 826-4488.

SHERFIELD, 1st Baron, cr. 1964; **Roger Mellor Makins,** G.C.B., G.C.M.G.; British diplomatist, public servant and business

executive; b. 3 Feb. 1904; s. of Brig.-Gen. Sir Ernest Makins, K.B.E., D.S.O. and Florence Mellor; m. Alice Davis 1934; two s. four d.; ed. Winchester and Christ Church, Oxford; Barrister 1927; Foreign Service 1928, Washington and Oslo; mem. Staff of Resident Minister in W. Africa 1942, of Resident Minister, Allied Force H.Q. Mediterranean 1943-44; Minister in Washington 1945-47; Asst. Under-Sec. of State for Foreign Affairs 1947-48, Deputy Under-Sec. 1948-52; Amb. to U.S.A. 1952-56; Joint Perm. Sec. to Treasury 1956-59; Chair. U.K. Atomic Energy Authority 1960-64; Chair. Industrial and Commercial Finance Corpn. 1964-74, Estate Duties Investment Trust 1966-73, Ship Mortgage Finance Co. 1966-74, Hill Samuel Group Ltd. 1966-70, Technical Devt. Capital Ltd. 1966-74, A. C. Cossor Ltd. 1968-, Raytheon Europe Int. Co. 1970-, Wells Fargo Ltd. 1972-, Finance for Industry Ltd. 1973-74; Fellow, All Souls Coll., Oxford; Fellow and Warden, Winchester Coll. 1974-79; Chair. Governing Body Imperial Coll. of Science and Technology 1962-74; Chair. Marshall Aid Commemoration Comm. 1966-73; Trustee, Kennedy Memorial Trust 1964-74; Chancellor, Univ. of Reading 1970-; Pres. Parl. and Scientific Cttee. 1969-73; Pres. British Standards Inst. 1970-73; Hon. D.C.L. (Oxford), Hon. F.I.C.E., Hon. D.Litt. (Reading), Hon. LL.D. (London); Hon. Student, Christ Church (Oxford), Hon. D.L. (Hants). *Leisure interests:* shooting, gardening. *Address:* 81 Onslow Square, London S.W.1, England.

SHERMAN, Frank (Howard); Canadian iron and steel executive; b. 4 Oct. 1916, Bellevue, Pa., U.S.A.; s. of Frank A. Sherman; m. Catherine Audrey Carpenter 1941 (deceased 1972); two s.; ed. Westdale Secondary School, Hamilton, Ont. and Queen's Univ.; Metallurgical Asst., Dominion Foundries and Steel, Ltd. (Dofasco) 1939-40, in Devt. and Operation of Armaments Dept. 1940-44, Asst. Works Man. 1945-47, Works Man. 1947-49, Vice-Pres. and Works Man. 1949-52, Exec. Vice-Pres. 1952-57, Gen. Man. 1957-59, Pres. and Gen. Man. 1959-64, Pres. and Chief Exec. Officer 1964-; Dir. American Iron and Steel Inst., Arnaud Railway Co., Bank of Nova Scotia, Canada Devt. Corpn., Canadian Pacific Ltd., Canron Ltd., Crown Life Insurance Co., Dominion Foundries and Steel Ltd., Great Lakes Waterways Devt. Assen., Knoll Lakes Minerals Ltd., Nat. Steel Car Corpn., Ltd., Wabush Lake Railway Co. Ltd.; mem. Board of Govs. McMaster Univ., Hamilton Philharmonic Orchestra, Art Gallery of Hamilton; mem. Nat. Exec. Council, Canadian Manufacturers' Assen. *Leisure interests:* golf, photography, boating, fishing, skeet shooting, hunting, horse-racing, tennis. *Address:* P.O. Box 460, 1330 Burlington Street East, Hamilton, Ont. L8N 3J5, Canada. *Telephone:* 416-544-3761.

SHERRILL, Rt. Rev. Henry Knox, D.D.; American ecclesiastic; b. 6 Nov. 1890, Brooklyn, N.Y.; s. of Henry Williams and Maria Knox Sherrill; m. Barbara Harris Sherrill 1921; three s. one d.; ed. Hotchkiss School, Yale Univ. and Episcopal Theological School, Cambridge, Mass.; Deacon 1914, Priest 1915, Protestant Episcopal Church; Asst. Minister, Trinity Church, Boston 1914-17; Red Cross and U.S. Army Chaplain in France 1917-19; received Medal of Merit (U.S.); Rector Church of Our Saviour, Brookline, Mass. 1919-23; Trinity Church, Boston 1923-30; Bishop of Mass. 1930-47; Presiding Bishop 1947-58; Pres. Nat. Council of Churches of Christ in U.S.A. 1950-52; Pres. World Council of Churches 1954-61; mem. President's Comm. on Civil Rights 1947; Fellow Corpn., Yale Univ.; Fellow American Acad. Arts and Sciences; Trustee Boston Univ.; Hon. LL.D. (Boston); Hon. D.D. (Harvard, Trinity Coll., Philadelphia Divinity School, Princeton, Columbia, Hobart Coll., Univs. of Edinburgh and Rochester, Seabury Western Theological Seminary); Hon. S.T.D. (Gen. Theological Seminary); Hon. D.C.L. (Union Coll.). *Publications:* William Lawrence—Later Years of a Happy Life, The Church's Ministry in Our Time 1948, Among Friends 1962. *Address:* Boxford, Mass. 01921, U.S.A. *Telephone:* (617) 887-5543.

SHERRILL, William Wayne, B.B.A., M.B.A.; American government official; b. 23 Aug. 1926, Houston, Tex.; m. 1st Sue Poer 1948 (divorced 1972), three d.; m. 2nd Sharon Blansfield 1972; ed. Univ. of Houston and Harvard Graduate School of Business; served in Second World War with U.S. Marine Corps; with Southwestern Bell Telephone Co. until 1954; Admin., City Court System of City of Houston; Exec. Asst. to the Mayor; Chief Admin. Officer and City Treas.; Investment Analyst; Pres. of Homestead Bank and Exec. Vice-Pres. of Jamaica Corpn. in Houston 1963; Dir. Fed. Deposit Insurance Corpn. 1966-67; mem. Board of Govs., Fed. Reserve System 1967-71; fmr. Pres. Associated Corpn. of N. America. *Leisure interests:* tennis, boating. *Address:* 1700 West Loop South, 1200 Houston, Tex. 77027 (Office); Houston, Tex. 77005, U.S.A. (Home).

SHERROD, Robert Lee, A.B.; American writer; b. 8 Feb. 1909; s. of Joseph Arnold and Victoria Evers Sherrod; m. 1st Elizabeth Hudson 1936 (died 1958), two s.; m. 2nd Margaret Carson Ruff 1961 (divorced 1972); m. 3rd Mary Gay Labrot Leonhardt 1972; ed. Univ. of Georgia; Newspaper reporter 1929-35; Corresp. Time and Life 1935-52; Far East Corresp. Saturday Evening Post 1952-55, Man. Editor 1955-62, Editor 1962-63, Editor-at-Large 1963-65; Vice-Pres. and Editorial Co-ordinator, Curtis Publishing Co. 1965-66; contract writer, Life 1967-72; Historical Adviser to U.S. Marine Corps 1973-76; mem. President's Advisory Cttee. Univ. Ga. 1975-; Benjamin Franklin Award 1955. *Publications:* Tarawa, The Story of a Battle 1944, On to Westward 1945, 'Life's' Picture History of World War II 1950, History of Marine Corps Aviation 1952, Kobunsha's History of the Pacific War 1950, Apollo Expeditions to the Moon (co-author) 1975. *Address:* 4000 Cathedral Avenue, N.W., Washington, D.C. 20016 (Office); 4000 Massachusetts Avenue, N.W., Washington, D.C. 20016, U.S.A. (Home).

SHEVCHENKO, Arkadiy Nikolayevich, D.JUR.; Soviet diplomatist; b. 11 Oct. 1930, Gorlovka, Ukraine; m. Lenguina Iosifovna Shevchenko 1951; one s. one d.; ed. Moscow State Inst. of Int. Relations; joined Ministry of Foreign Affairs 1956, held senior diplomatic posts in Dept. of Int. Orgs. 1956-63; Counsellor, then Senior Counsellor, Perm. Mission to UN 1963-70; Adviser to Minister of Foreign Affairs, with rank of Amb. 1970-73; part-time Senior Research Fellow, Inst. of U.S. Studies, U.S.S.R. Acad. of Sciences 1970-73; UN Under Sec.-Gen. for Political and Security Council Affairs 1973-78; several U.S.S.R. decorations. *Publications:* Struggle of the Soviet Union for Disarmament 1961, Current Problems of Disarmament 1965, and other books and various articles on the problems in int. relations and int. law. *Leisure interests:* research, journalism.

SHIBAEV, Aleksey Ivanovich; Soviet politician; b. 1915; ed. Gorky State University; mem. CPSU 1940-; apprentice, tech. draftsman, designer at Krasnoe Sormovo Works, Gorky 1933-43, party organiser at works, Dir. of works 1943-55, Sec., 1955-59; First Sec. Saratov Regional Cttee. CPSU 1959-76; Member Cen. Cttee., CPSU 1961-; Deputy to USSR Supreme Soviet 1962-; Chair. of All-Union Cen. Council of Trade Unions 1976-; various decorations. *Address:* All-Union Central Council of Trade Unions, Moscow, U.S.S.R.

SHIBATA, Yuji; Japanese inorganic chemist; b. 28 Jan. 1882, Tokyo; s. of Shokei and Chika Shibata; m. Nami Sugimura 1914; one s.; ed. Imperial Univ. of Tokyo, Univs. of Leipzig, Zürich and Paris; Prof. Inorganic Chemistry, Univ. of Tokyo 1913-42; Prof. Univ. of Nagoya 1942-48; Rector Tokyo Metropolitan Univ. 1949-57; mem. Japan. Acad. 1944, Pres. 1962-70; Hon. mem. Romanian Acad.; Sakurai Medal, Japan Chemical Soc. 1919, Imperial Medal of Japan Acad. 1927. *Major works include:* study of colour change of salt solutions, study of absorption spectra of the metal complexes, works on spectrochemistry, co-ordination chemistry and geochemistry. *Address:* 1-30-8 Ookayama, Megurogu, Tokyo, Japan.

SHIGA, Yoshio; Japanese journalist; b. 8 Jan. 1901, Kitakyushu-City; s. of Fudesuke and Tama Kawamoto; m. Taeko Watanabe 1929; ed. Imperial Univ., Tokyo; joined Communist Party 1923; Editor Marxism 1926; elected mem. of Central Cttee. of Communist Party 1927; imprisoned for political reasons 1928-45; re-elected mem. of Central Cttee. 1945; mem. of House of Representatives 1946-47 and 1949-50; removed from public office by Gen. MacArthur, June 1950; underground activity 1950-54; re-elected mem. House of Reps. 1955-; mem. Presidium Central Cttee. Japanese Communist Party, expelled from Party 1964; founded the Voice of Japan; with newspaper Heiwa To Shakaishugi 1977; mem. Editorial Cttee. Moscow Peace Manifesto 1957. *Publications:* Eighteen Years of Imprisonment 1947, On the State 1949, Japanese Revolutionaries 1956, On Japan 1960, I Appeal Against the Atomic Bomb 1964, Japanese Imperialism 1972, Collective Security of Asia 1973, Problems of Communist Movement in Japan 1974, Kuril Problems (2 vols.) 1975, Yesterday, Today and Tomorrow 1976, October Revolution and Japan 1977, Notes on the History of Communist Party of Japan 1979. *Address:* 26-15, Minamicho-3, Kichijoji, Musashino City, Tokyo 180, Japan. *Telephone:* 0422-43-8374.

SHIGUER, Muhammad Hadou; Moroccan politician; b. 1932; ed. Mohammed V Univ.; taught for 12 years; mem. Nat. Assembly; Minister of Posts and Telecommunications 1964-66, of Agriculture 1966-67, of the Royal Cabinet 1967, of Defence 1967-68, of Primary Educ. 1968-72, of Nat. Educ. 1972-73, of the Interior 1973-77, of Co-operation and Professional Training 1977-78, of Relations with Parliament 1978-. *Address:* c/o Ministry of Relations with Parliament, Rabat, Morocco.

SHIH HSIN-AN; Chinese party official; Deputy Political Commissar, Kweichow Military District, PLA 1958, Political Commissar 1964-. *Address:* People's Republic of China.

SHILLING, John Woollerton; South African mining official; b. 9 June 1913, S. Africa; s. of late Rev. and Mrs. W. W. Shilling; m.

1st Eileen P. Hargreaves 1942 (deceased), one s. two d.; m. 2nd Maureen Yardley (née Watt) 1971; ed. Kingswood Coll., Grahamstown, C.P.; mem. Side Bar 1934-39; mil. service 1942-45; Legal Adviser, Transvaal and O.F.S. Chamber of Mines 1946-53; Dir./Man. Anglo-American Corpn. of S. Africa Ltd. 1953-74; Chair. of coal, gold and uranium divs. in Anglo-American Group; Chair. Nuclear Fuels Corpn. of S. Africa Ltd. 1969-74; Pres. S. African Chamber of Mines 1971-72; retd. Sept. 1974; Uranium consultant, South African Atomic Energy Board since retirement. *Leisure interests:* shooting, fishing, tennis. *Address:* 109 Boundary Lane, Parkmore, Johannesburg 2196, South Africa. *Telephone:* 11-283-4329.

SHILO, Nikolay Alekseyevich; Soviet geologist; b. 7 April 1913, Pyatigorsk, Stavropolye Region; s. of Aleksey Vasilyevich and Akulina Dmitriyevna Shilo; m. Valeria Arsentyevna Shilo 1954; one s. two d.; ed. Leningrad Mining Inst.; Geologist in gold fields in north-eastern district of U.S.S.R. 1937-49; Scientific Assoc., U.S.S.R. Research Inst. of Gold and Rare Metals 1949-60; Dir. North-Eastern Complex Research Inst., Siberian Dept. of U.S.S.R. Acad. of Sciences (Magadan) 1960-, Chair. of Presidium 1977-; corresp. mem. U.S.S.R. Acad. of Sciences 1964-70, Academician 1970-; mem. CPSU 1941-, U.S.S.R. Acad. of Sciences, Far Eastern Branch 1970-; Pres. Far East Centre U.S.S.R. Acad. of Sciences (Vladivostok) 1977; Order of Lenin (twice), Hero of Socialist Labour 1973, and other decorations. *Leisure interests:* politics, economics, poetry. *Address:* NECRI, Portovaya Street 16, Magadan 685000; FEC, Leninskaya Street 50, Vladivostok 690003; Bestegeva 40, Apartment 39, Vladivostok 690003, U.S.S.R. (Home). *Telephone:* 3-06-11 (Office, Magadan); 2-25-28 (Office, Vladivostok); 2-85-25 (Home).

SHIMA, Shigenobu; Japanese former diplomatist; b. 1907, Inchon, Korea; s. of Shigeharu and Sada (Nishimura) Shima; m. Sanaye Shimasuye 1935; two d.; ed. Univ. of Tokyo; entered diplomatic service 1930; served London 1931-35; Private Sec. to Foreign Minister 1936-37; Peking, Tientsin and Tsingtao 1937-41; Foreign Ministry 1942-47; Dir. Osaka Liaison Office 1948-51; Counsellor (European Affairs), Foreign Ministry 1951-53; Minister in Washington 1954-57; Amb. to Sweden 1957-59; Deputy Vice-Minister for Foreign Affairs 1959-62, Vice-Minister 1963-64; Amb. to U.K. 1964-68; Grand Master of Ceremonies, Imperial Japanese Court 1968-73; Adviser to Foreign Minister 1977-. *Address:* Shirogane 4-10-11, Minato-ku, Tokyo 108, Japan. *Telephone:* (03) 443-0677.

SHIMODA, Takeso; Japanese diplomat, lawyer; b. 3 April 1907, Tokyo; s. of Dr. Jiro and Iku (Kitagawa) Shimoda; m. Mitsue Suzuki 1938; one s. two d.; ed. Tokyo Imperial Univ.; entered Japanese Diplomatic Service 1931, served Nanking, Moscow, The Hague; Dir. Treaties Bureau, Ministry of Foreign Affairs 1952-57; Minister to U.S.A. 1957-60; Adviser to Minister of Foreign Affairs 1960-61; Ambassador to Belgium and Chief of Japanese Del. to European Communities 1960-63; Amb. to U.S.S.R. 1963-65; Vice Minister of Foreign Affairs 1965-67; Amb. to U.S.A. 1967-70; Justice of the Supreme Court 1970-77; Judge, Perm. Court of Arbitration 1972-; admitted to Tokyo Bar; Adviser to Minister of Foreign Affairs 1977-; Pres. Honda Foundation 1978-; Dir. Japanese Assen. of Int. Law, Japanese Assen. of Maritime Law; Hon. mem. American Bar Assen.; Hon. LL.D. (Univ. of Nebraska); numerous foreign decorations. *Leisure interests:* golf, fishing. *Address:* 4-16, Nishikatu 1-chome, Bunkyo-ku, Tokyo, Japan. *Telephone:* 03-811-2660.

SHINDE, Annasaheb, P., B.A., LL.B.; Indian politician, lawyer and agriculturist; b. 21 Jan. 1922, Padali, Maharashtra Province; s. of Shri Pandurang Vithoba Shinde; m. Shrimati Hirabai 1947; three s. one d.; ed. Wildon Coll., Bombay, Baroda Coll., Law Colls., Poona and Ahmedabad; practised law before political imprisonment 1944; organized landowning farmers who had leased land to private sugar factories for nominal rents and became heavily involved in educational and agricultural projects; fmr. Chair. Maharashtra State Co-operative Sugar Factories Fed.; organizer of numerous co-operative insts. in fields of agriculture, finance and educ.; now Pres. Nat. Fed. of Co-operative Sugar Factories Ltd., New Delhi; mem. 3rd Lok Sabha 1962-67; Parl. Sec. to Minister of Food and Agric. 1962-63, to Minister for Community Devt. and Co-operation 1966-67; Minister of State, Ministry of Food, Agric., Community Devt. and Co-operation 1967-74, Ministry of Agric. and Irrigation 1974-77; Alt. Chair. Indian del. 2nd World Food Congress, The Hague 1970; del. Int. Sugar Conf., Geneva 1977. *Publications:* Problems of Indian Agriculture and Food, The Indo-Pakistan Conflict. *Leisure interests:* gardening, reading. *Address:* 338 Gurdwara Rakabganj Road, New Delhi, India.

SHINDO, Sadakazu; Japanese business executive; b. 4 March 1910, Kure City, Hiroshima Pref.; s. of (late) Tokuichi and Fuji Shindo; m. Eiko Higashii 1964; one s. one d.; ed. Kyushu Univ.; Pres., Mitsubishi Electric Corpn. *Leisure interests:* golf, photography. *Address:* Mitsubishi Electric Corpn., 2-2-3 Marunouchi Chiyoda-ku, Tokyo; 3-36-8-101 Yoyogi, Shibuya-ku, Tokyo, Japan. *Telephone:* 03-374-0777 (Home).

SHINICHI, Ishino; Japanese banker; b. 13 March 1912, Kobe; m. Kazuko Ujiie 1936; ed. Tokyo Imperial Univ.; Deputy Vice-Minister of Finance 1957; Dir.-Gen. Banking Bureau 1959, Budget Bureau 1961, Vice-Minister 1963, retd. from Ministry of Finance 1965; Pres. Bank of Kobe Ltd. 1967-73, The Taiyo Kobe Bank Ltd. (following merger of Bank of Kobe Ltd. with Taiyo Bank) 1973-. *Leisure interests:* golf, haiku, Go. *Address:* Taiyo Kobe Bank Ltd., 56 Naniwa-cho, Ikuka-ku, Kobe 650, Japan.

SHINKAFI, Umaru Ali, LL.B.; Nigerian government official and former police officer; b. 19 Jan. 1937, Kaura Namoda, Sokoto State; m.; four c.; ed. Barewa Coll., Zaria, Police Coll., Ikeja, Univ. of Lagos (part-time), Nigerian Law School; gen. Police Duties until 1962, Investigation Duties 1962-74, admin. branch 1974-75; Commr. for Internal Affairs 1975-78; now also Acting Deputy Commr. of Police; qualified as Barrister and as Solicitor of Supreme Court. *Address:* c/o Federal Executive Council, Lagos, Nigeria.

SHINN, Richard Randolph; American insurance executive; b. 7 Jan. 1918, Lakewood, N.J.; s. of Clayton Randolph and Carrie McGravey Shinn; m. Mary Helen Shea; one s. two d.; ed. Lakewood public schools and Rider Coll., Trenton, N.J.; joined Metropolitan Life's Group Insurance Div. 1939; Asst. to Group Sales Man. 1948-50, Asst. Man. on group staff 1950-52, responsible for group sales unit 1952-53; Asst. Vice-Pres. 1953-57, Third Vice-Pres. 1957-59, Second Vice-Pres. 1959-63, Vice-Pres. 1963-64, Senior Vice-Pres. 1964-65, Admin. Vice-Pres. 1965-66, Exec. Vice-Pres. 1966-68, Senior Exec. Vice-Pres. 1968, with exec. responsibility for Exec. Office for Personal Insurance, Pres. and mem. Board of Dirs. 1969-73, Pres. and Chief Exec. Officer 1973-; mem. Board of Dirs. Chase Manhattan Bank, May Dept. Stores Co., Allied Chemicals and Board of Trustees, American Coll. of Life Underwriters. *Leisure interests:* outdoor sports, including yachting and golf. *Address:* Metropolitan Life Insurance Company, 1 Madison Avenue, New York, N.Y. 10010 (Office); 31 Lindsay Drive, Greenwich, Conn. 06830, U.S.A. (Home).

SHINOHARA, Shuichi; Japanese banker; b. 13 Oct. 1906, Nagano-shi, Nagano Pref.; s. of Shigetaro and Hana Shinohara; m. Shizu Miyajima 1932; two d.; ed. Faculty of Law, Univ. of Tokyo; joined The Bank of Japan 1930, Chief, Statistics Dept. 1946, Man. Sendai Branch 1947, Deputy Chief, Personnel Dept. 1952, Chief, Business Dept. 1954, Chief, Bank Relations and Supervision Dept. 1957-58; Deputy Pres. The Kyowa Bank Ltd. 1958-62, Pres. 1962-71, Chair. 1971-78, Hon. Chair. June 1978-. *Leisure interest:* golf. *Address:* The Kyowa Bank Ltd., 5-1 Marunouchi, 1-chome Chiyoda-ku, Tokyo; 7-13, Nishiogi Kita 1-chome, Suginami-ku, Tokyo, Japan. *Telephone:* 390-4080.

SHINTO, Hisashi, D.ENG.; Japanese industrial executive; b. 2 July 1910, Fukuoka Prefecture; s. of Yasuhide Shinto and Michiyo Shinto; m. Michiko Kushiro 1936; three s. one d.; ed. Saga Senior High School and Kyushu Imperial Univ.; entered Harima Shipbuilding & Eng. Co. Ltd. 1934; entered Nat. Bulk Carriers Corpn., Kure Yard 1951; Man. Dir. Ishikawajima-Harima Heavy Industries Ltd. (IHI), Div. Man. of Shipbuilding Div. 1960, Exec. Vice-Pres. IHI 1964, Pres. IHI 1972-; Dir. Tokyo Shibaura Electric Co. Ltd. (Toshiba) 1966-; Medal of Honour with Blue Ribbon. *Leisure interests:* golf, photography. *Address:* New Ohtemachi Building, Ohtemachi 2-chome, Chiyodaku, Tokyo 100 (Office); 9-15, Zenpukuji 1-chome, Suginami-ku, Tokyo 167, Japan (Home). *Telephone:* 03-244-6496 (Office); 03-390-0219 (Home).

SHINWELL, Baron (Life Peer), cr. 1970, of Easington, Durham; **Emanuel Shinwell,** P.C., C.H.; British politician; b. 18 Oct. 1884, London; Labour M.P. for Linlithgow 1922-24, 1928-31, Seaham 1935-50, Easington 1950-70; Financial Sec., War Office 1929-30; Parl. Sec. to Dept. of Mines 1924, 1930-31; Minister of Fuel and Power 1945-47; Sec. of State for War 1947-50; Minister of Defence 1950-51; fmr. Chair. and mem. Nat. Exec. Labour Party; Chair. Parl. Labour Party 1964-67. *Publications:* The Britain I Want 1943, When the Men Come Home 1944, Conflict without Malice 1955, The Labour Story 1963, I've Lived Through It All (autobiog.) 1973. *Address:* House of Lords, London, S.W.1, England.

SHIRENDEV, Badzaryn, DR.HIST.; Mongolian historian and politician; b. 14 May 1912; ed. School of Agriculture at Tsetserleg, Mongolian Workers' Faculty at Ulan-Ude, U.S.S.R., Lunacharskiy Inst., Moscow, Teacher Training Inst., Irkutsk, Inst. of Oriental Studies, Moscow; Man. of ■ commune 1930-31; army service on

special duty with Marshal Choybalsan 1941-43; Rector of Mongolian State Univ. 1944-51; Minister of Educ. 1951-54; Chair. Mongolian Peace Cttee. 1950-57; First Deputy Chair. Council of Ministers 1954-57; mem. Acad. of Sciences 1951-, Pres. 1958; Chair. Perm. Cttee. of Int. Congress of Mongolists 1970-; Chair. Mongolian Assn. of Graduates from Soviet Educ. Insts. 1972-; fmr. Deputy Chair. of People's Great Hural (Assembly); Deputy to People's Great Hural; mem. Political Bureau of Mongolian People's Revolutionary Party (MPRP) Cen. Cttee, 1953-58; mem. MPRP Cen. Cttee. 1966-; Hon. mem. Acad. of Sciences of Hungary; Hon. Dr. Litt. (Leeds); Order of Sühbaatar. *Address:* Academy of Sciences, Ulan Bator, Mongolia.

SHIRER, William Lawrence, B.A., LITT.D.; American author and journalist; b. 23 Feb. 1904, Chicago, Illinois; ed. Coe Coll.; Foreign corresp. various American newspapers, Europe, Near East and India 1925-45; Pres. Authors' Guild 1956-57; contrib. various publs.; Légion d'honneur. *Publications:* Berlin Diary 1941, End of a Berlin Diary 1947, The Traitor (novel) 1950, Midcentury Journey 1952, Stranger Come Home (novel) 1954, The Challenge of Scandinavia 1955, The Consul's Wife (novel) 1956, The Rise and Fall of the Third Reich 1960, The Rise and Fall of Adolf Hitler 1961, The Sinking of the Bismarck 1962, The Collapse of the Third Republic 1969, 20th Century Journey, A Memoir of a Life and the Times 1976. *Leisure interests:* music, gardening, sailing, hiking. *Address:* Box 487, Lenox, Mass. 01240, U.S.A.

SHIRLEY, George; American tenor; b. 18 April 1934, Indianapolis, Ind.; s. of Irving E. and Daisy (née Bell) Shirley; m. Gladys Lee Ishop 1956; one s. one d.; ed. Wayne State Univ.; debuts with Metropolitan Opera, New York Opera, Festival of Two Worlds (Spoleto, Italy), Santa Fé Opera 1961, Teatro Colón, Buenos Aires 1965, La Scala, Milan 1965, Glyndebourne Festival 1966, Royal Opera, Covent Garden, Scottish Opera 1967, Vienna Festival 1972, San Francisco Opera 1977, Chicago Lyric Opera 1977; Hon. H.D.H. (Wilberforce Univ.); Nat. Arts Club Award 1960, Concorso di Musica e Danza (Italy) 1960. *Leisure interests:* tennis, sketching and cartoons, writing. *Address:* c/o Judd Concert Bureau, 127 West 69th Street, New York, N.Y. 10023, U.S.A.; Artists International Management, 5 Regent's Park Road, London, NW1 7TL, England; and Ann Summers Dossena, Via Maria dei Fiori 42, 00187 Rome, Italy. *Telephone:* (212) 580-7144 (U.S.A.); 01-485 1099 (U.K.).

SHIRLEY-QUIRK, John, C.B.E., B.SC.; British concert and opera singer; b. 28 Aug. 1931, Liverpool; s. of Joseph Stanley and Amelia Shirley-Quirk; m. Dr. Patricia Hastie 1952; one s. one d.; ed. Holt School, Liverpool, and Liverpool Univ.; Flying Officer, R.A.F. (Educ. Branch) 1952-55; Asst. Lecturer, Acton Tech. Coll. 1956-60; Vicar Choral, St. Paul's Cathedral 1960-61; professional singer 1961-; Hon. R.A.M. 1972; D.Mus. h.c. (Liverpool) 1976; many recordings and first performances, particularly works of Benjamin Britten. *Leisure interests:* clocks, canals, trees. *Address:* White House, 82 Heath End Road, Flackwell Heath, Bucks., HP10 9ES, England. *Telephone:* 06285 21325.

SHISHIDO, Fukushige, B.COM.; Japanese business executive; b. 27 Sept. 1913, Fukushima prefecture; s. of Hisakichi and Tai Shishido; m. Sono Sōma 1941; three s.; ed. Kobe Univ. of Commerce; with Dai-ichi Kangyo Bank Ltd. 1937-63; Dir. Fuji Electric Co. Ltd. 1963-65, Man. Dir. 1965-70, Exec. Dir. 1970-72, Vice-Pres. 1972-74, Pres. 1974-; Auditor, Fujitsu Ltd. 1965-. *Leisure interests,* Go, golf. *Address:* 3-25 Chihaya-cho, Toshima-ku, 171 Tokyo, Japan. *Telephone:* (03) 957-5044.

SHITIKOV, Aleksey Pavlovich; Soviet politician; b. 14 March, 1912, Gorka; ed. Gorki Agricultural Inst. and Higher Party School; Member CPSU 1939-; party work, Soviet army 1941-45; Apparatus, Khabarovsk Territorial Cttee. CPSU 1945-48, 1950-52; Sec. Kamchatka Regional Cttee. CPSU, The First Sec. Jewish Autonomous Region 1948-55; Sec. Khabarovsk Territorial Cttee. CPSU 1955-57, First Sec. 1957-70; Chair. Soviet of Union, U.S.S.R. Supreme Soviet 1970-, U.S.S.R. Parl. Group of Inter-parl. Union 1970-; mem. Central Cttee. CPSU 1961-; Deputy to U.S.S.R. Supreme Soviet 1954-; mem. Cttee. for Foreign Affairs, Soviet of Union 1970-; Chair. Soviet Cttee. for European Security and Co-operation 1971-; Order of Lenin (thrice) and other decorations. *Address:* Presidium of the U.S.S.R. Supreme Soviet, The Kremlin, Moscow.

SHKLOVSKY, Iosif Samuilovich; Soviet astrophysicist; b. 1 July 1916, Glukhov, Ukraine; ed. Moscow Univ.; Head, Dept. of Radio Astronomy, Shternberg Astronomical Inst., Moscow 1938-; Prof. Moscow Univ.; Lenin Prize 1960; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-, Inst. of Space Research, U.S.S.R. Acad. of Sciences 1968-; Foreign mem. American Acad. of Sciences; mem. British Astronomical Soc.; Lenin Prize 1960. *Publications:* The Solar Corona 1951, The Nature of the Aurora Polaris' Radiance 1952, The Origin of Cosmic Rays and Radio Astronomy 1953, The Origin of the Crab Nebula's Radiance 1953, Radio Astronomy 1955, Cosmic Radio-Frequency Emission 1956, The Nature of the Earth's Third Radiation Belt 1960, On the Distant Planet of Venus 1961, The Universe, Life and Reason 1962, Stars: Their Origin, Life and Extinction 1975, Super New Stars 1976. *Address:* Moscow State University, Leninskie Gory, Moscow, U.S.S.R.

SHKLOVSKY, Viktor Borisovich; Soviet writer, literary critic; b. 1893; ed. St. Petersburg Univ.; started writing 1914-; helped found with R. Jakobson Soc. for Study of Poetic Language Theory and contributed to formalistic method 1914-23; took part in Lef (Left Literary Front movement and magazine) 1923; Order of Red Banner of Labour 1963; Hon. Dr. (Oxford Univ.) 1972. *Publications include:* Transmental Language and Poetry 1916, Art as a Device 1917, Sentimental Journey, Memoirs 1917-22, 1923 (trans. Eng. 1970), The Horse's Trot 1923, Theory of Prose 1925, The Successes and Failures of Maxim Gorky 1926, How To Write A Script 1927, The Hamburg Account 1928, The Material and Style of Leo Tolstoy's 'War and Peace' 1928, The Writer's Craft 1928, Matvey Komarov 1929, Zoo, or Letters Not About Love 1929, Chulkov and Levshin 1933, Life of the Artist Fedotov 1936, Notes on Pushkin's Prose 1937, On Mayakovsky 1940, Meetings 1944, The Masters of Old 1951, Russian Classical Prose 1953, Pro et Contra: On Dostoevsky 1957, Historical Tales 1958, Artisitic Prose 1959, Once Upon A Time (Russian: Zhili-byli) Memoirs 1962, Leo Tolstoy 1963, In Forty Years (Memoirs) 1965, Tales about Prose 1966, The Old and New 1966, Collected Works (4 vols.) 1973-74; Scenarios: The Captain's Daughter, Minin and Pozharsky 1939, Alisher Navoi 1948. *Address:* U.S.S.R. Union of Writers, Ulitsa Vorovskogo 52, Moscow, U.S.S.R.

SHKURATOV, Ivan Fedorovich; Soviet trade union official; b. 9 Jan. 1912, Bolshaya Krasnastavka, Voronezh Region; ed. Moscow Zootechnical Inst.; State Farm Zootechnician 1935-40; Soviet Army 1941-46; State Farm Dir. 1946-49; U.S.S.R. Ministry of State Farms 1949-56; Dep. Chair. Cen. Cttee. of Agricultural Workers' Union 1956-58, Sec. 1958-62, Chair. 1962-; Sec. All-Union Cen. Council of Trade Unions 1964-68; mem. Presidium All-Union Cen. Council of Trade Unions 1968-; mem. CPSU; Order of Red Star, Red Banner of Labour, Badge of Honour, etc. *Address:* Cen. Cttee. of Agricultural Workers' Union, 41 Leninsky Prospekt, Moscow, U.S.S.R.

SHLAUDEMAN, Harry Walter, B.A.; American diplomatist; b. 17 May 1926, Los Angeles, Calif.; s. of Karl Whitman and Eleanor Pixley Shlaudeman; m. Carol Jean Dickey 1948; two s. one d.; ed. Stanford Univ., Calif.; served U.S. Marine Corps. 1944-46; joined U.S. Foreign Service 1955; Vice-Consul, Baranquilla, Colombia 1955-56; Political Officer, Bogotá, Colombia 1956-58; assigned language training, Washington, D.C. 1958-59; Consul, Sofia, Bulgaria 1960-62; Chief of Political Section, Santo Domingo, Dominican Repub. 1962-64; Officer in Charge of Dominican Affairs, Dept. of State, Washington, D.C. 1964-65, Asst. Dir. Office of Caribbean Affairs 1965-66, Sr. Seminar Foreign Policy 1966-67, Special Asst. to Sec. of State 1967-69, Dir. INR RAR, Dept. of State 1969; Deputy Chief of Mission, Counsellor of Embassy, Santiago, Chile 1969-73; Deputy Asst. Sec. of State for Inter-American Affairs 1973-75; Amb. to Venezuela 1975-76; Asst. Sec. of State for Inter-American Affairs 1976-77; Amb. to Peru 1977-. *Leisure interest:* golf. *Address:* American Embassy, Avda. Inca Garcilaso de la Vega 1400, Lima, Peru.

SHOCKLEY, William (Bradford), B.SC., PH.D.; American scientist; b. 13 Feb. 1910, London, England; s. of William Hillman and May (née Bradford) Shockley; m. 1st Jean Alberta Bailey 1933; two s. one d.; m. 2nd Emmy Lanning 1955; ed. California Inst. of Technology, Massachusetts Inst. of Technology; Mem. Tech. Staff 1936-42, Dir. Solid State Physics Research Program 1945-54 and Dir. Transistor Physics Research 1954-55, Bell Telephone Laboratories; Dir. of Research, anti-submarine Warfare Operations Research Group U.S. Navy 1942-44; Expert Consultant, Office of the Sec. of War 1944-45; Visiting Lecturer Princeton Univ. 1946; Scientific Adviser, Policy Council, Joint Research and Devt. Board 1947-49; Scientific Advisory Panel, U.S. Army 1951-63; Visiting Prof. California Inst. of Tech. 1954-55; Deputy Dir. and Dir. of Research, Weapons Systems Evaluation Group, Dept. of Defence 1954-55; Dir. Semi-conductor Laboratory of Beckman Instruments Inc. 1955-58; Pres. Shockley Transistor Corpn. 1958-60; Dir. Shockley Transistor (unit of Clevite Transistor) 1960-63; Mem. of President's Science Advisory Comm. on Scientific and Technical Manpower 1962; Alexander M. Poniatoff Prof. of Eng. and Applied Science, Stanford Univ. 1963-75, Emer. Prof. 1975-; mem. Air Force Scientific Advisory Board 1958-62; Exec. Consultant to Bell Labs. 1965-75; Sr. Consultant to Army Scientific Advisory Panel; inventor of junction transistor; research on energy bands of solids, ferrom-

agnetic domains, plastic properties of metals, theory of grain boundaries, order and disorder in alloys, semi-conductor theory applied to devices and device defects such as dislocations, electro-magnetic theory, mental tools for scientific thinking; operations research on human quality statistics; holder of over 90 U.S. patents; mem. Scientific and Tech. Advisory Comm. to NASA, Nat. Acad. of Sciences, American Inst. of Physics, Inventors Hall of Fame of Nat. Council of Patent Law Assn.; Fellow I.E.E.E.; Hon. Dr. (Univ. of Pa.) 1955, (Rutgers) 1956, (Gustavus Adolphus Coll.) 1963; numerous awards 1946-69 including Medal for Merit 1946, Morris Liebman Prize (I.E.E.E.) 1952, O.E. Buckley Prize (American Physics Soc.) 1953, Nobel Prize for Physics 1956; Comstock Prize (Nat. Acad. of Sciences), Holley Medal (American Soc. of Mechanical Engineers) Wilhelm Exner Medal (Österreichischer Gewerbeverein) 1963, NASA Certificate of Appreciation 1969 and NASA Public Service Group Achievement Award 1969. *Publications:* Electrons and Holes in Semi-conductors 1950, Imperfections of Nearly Perfect Crystals 1952; Mechanics (co-author) 1966, and many articles. *Leisure interests:* swimming, skin diving, mountain climbing. *Address:* Stanford Electronics Laboratories, Department of Electrical Engineering, McC 202 Stanford University, Stanford, Calif. 94305 (Office); 797 Esplanada Way, Stanford, Calif. 94305, U.S.A. (Home). *Telephone:* 497-4675 (Office).

SHOGO, Watanabe; Japanese executive; b. 31 Aug. 1915; m. Murako Tajima 1943; two s. one d.; ed. Tokyo Univ.; with the Industrial Bank of Japan Ltd. 1938-62; Man. Dir. Nikko Securities Co. 1962, Senior Man. Dir. 1963, Vice-Pres. 1966, Pres. 1970-, Chair. 1973-; Dir. Nikko Research Centre Ltd. 1970-, Japan Fund Inc. 1973- (Vice-Chair. 1974-), Private Investment Co. for Asia (PICA) 1975-, Tokyo Stock Exchange 1973-; Exec. Dir. Japan Fed. of Employers' Assn. 1970-; Trustee, Japan Cttee. for Econ. Devt. 1971-; Man. Dir. Fed. of Econ. Orgs. (Keidanren) 1970-; Pres. Bond Underwriters Assn. of Japan 1972-73; mem. Trilateral Comm. 1973-; Chair. Securities Dealers Assn. of Japan 1975-; mem. Securities and Exchange Council 1976-, Financial System Council 1976-, Taxation System Council of Govt. *Leisure interest:* oil painting. *Address:* Nikko Securities Company Ltd., 3-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo (Office); 6-2, Eifuku 3-chome, Suginami-ku, Tokyo, Japan (Home). *Telephone:* (03) 283-2211 (Office).

SHOKIN, Aleksandr Ivanovich; Soviet politician; b. 28 Oct. 1909, Moscow; ed. Bauman Higher Technical School, Moscow; Engineer, Ministry of Shipbuilding Industry 1932-38, Chief Engineer, Ministry of Shipbuilding Industries 1938-43; State work 1943-49; Dep. Minister, U.S.S.R. Communications Industry 1949-53, First Dept. Minister 1955-57; First Dep. Chair. State Cttee. of U.S.S.R. Council of Ministers for Electronics 1958-61, Chair 1961-65; U.S.S.R. Minister of Electronics Industries 1965-; mem. CPSU 1936-; Cand. mem. Cen. Cttee. of CPSU 1961-66, mem. 1966-; Deputy to U.S.S.R. Supreme Soviet 1962-; State Prize 1952, 1953; Order of Lenin (six times) and other decorations. *Address:* U.S.S.R. Ministry of Electronics Industries, Moscow, U.S.S.R.

SHOLOKHOV, Mikhail Aleksandrovich; Soviet novelist; b. 24 May 1905, Khutor Kruzhilin, Rostov Region (fmrly.283 Region of Don Kossak Army); mem. Acad. of Sciences of U.S.S.R. 1939-; mem. CPSU 1932-; awarded State Prize 1941; corresp., broadcaster; Deputy to Supreme Soviet 1946-; mem. Comm. for Foreign Affairs, Soviet of Nationalities; mem. Presidium Union of Soviet Writers 1954-; mem. CPSU Cen. Cttee. 1961-; Nobel Prize for Literature 1965; Hero of Socialist Labour 1967; Lenin Prize; Order of Lenin (eight times); Hon.D.Iur. (St. Andrews) 1975. *Publications:* Woman with Two Husbands 1925, The Heart of Alyoshka 1925, Stories of the Don 1926, And Quiet Flows the Don (4 vols.) 1928-40, Virgin Soil Upturned 1932-33, 2nd vol. 1959, They Fought for their Country 1966, One Man's Destiny 1967; Short stories: The Mortal Enemy, Dry Rot, The Family Man, The Colt, Collected Works (vols. 1-8) 1959-62, My Homeland 1970, At the Bidding of the Heart (articles) 1970, The Deathless Trumpeter 1973, Put'-dorozhen'ka (The Path) 1973, Stories 1975. *Address:* U.S.S.R. Union of Writers, Ulitsa Vorovskogo 52, Moscow, U.S.S.R.

SHONE, Sir Robert Minshull, C.B.E., M.A., M.ENG.; British economist; b. 1906, Birkenhead; ed. Sedbergh School, Liverpool Univ. and Univ. of Chicago; Industrial work 1928-32; Commonwealth Fellow (U.S.A.) 1932-34; Lecturer, London School of Econs. 1935-36; Gen. Dir. Ministry of Supply, Iron and Steel Control 1942-45; Dir. British Iron and Steel Fed. 1950-53; exec. mem. Iron and Steel Board 1953-61; Dir.-Gen. Nat. Econ. Devt. Council 1962-66; Dir. M. and G. Holdings Ltd. 1966-; Visiting Prof. of Applied Econs., City Univ. (London) 1967-; Dir. Rank Org. Ltd. 1968-78, A.P.V. Holdings Ltd. 1970-76; Special Prof. Nottingham Univ. 1971-73. *Publications:* Problems of Investment 1971, Price and Investment Relationships 1975, and numerous articles in journals. *Leisure interest:* golf. *Address:* 7 Windmill Hill, London, N.W.3, England. *Telephone:* 01-435 1930.

SHONFIELD, Sir Andrew Akiba, Kt.; British economist; b. 10 Aug. 1917, Tadworth, Surrey; s. of Dr. Avigdor Schonfeld and Rachel Lea Sternberg; m. Zuzanna Maria Przeworska; one s. one d.; ed. Magdalen Coll., Oxford Univ.; army service World War II; Econ. Affairs Commentator on radio, television and in newspapers 1947; Foreign Ed., Financial Times 1949-57; Econ. Ed., The Observer 1958-61; Dir. of Studies, Royal Inst. of Int. Affairs, 1961-68, Dir. 1972-77; Prof. of Econs., European Univ. Inst., Florence 1978-; Chair., Social Science Research Council 1969-71; mem. Royal Comm. on Trade Unions and Employers' Asscns. 1965-67; mem. Duncan Cttee. on British Overseas Representation 1968-69; mem. Vedel Cttee. on EEC Insts., European Comm. 1971-72; Reith Lecturer 1972; Hon. D.Lit. (Loughborough); Cortina-Ulysse Prize (Europe: Journey to an Unknown Destination) 1974. *Publications:* British Economic Policy since the War 1958, The Attack on World Poverty 1960, A Man Beside Himself (novel) 1964, Modern Capitalism: the Changing Balance of Public and Private Power 1965, Europe: Journey to an Unknown Destination 1973, International Economic Relations of the Western World 1959-1971 (editor) 1976. *Address:* European University Institute, Badia Fiesolana, via dei Roccettini, 50016-S. Domenico di Fiesole, Italy. *Telephone:* (055) 477-931 (Office).

SHONO, Senkichi, LL.B.; Japanese banker; b. 22 Sept. 1913, Tokyo; s. of Danroku and Shige Shono; m. Yuki Minoda 1943; one s. two d.; ed. Tokyo Univ.; joined The Mitsui Trust and Banking Co., Ltd. 1937, Dir. and Man., Security Dept. 1959, Dir. and Man. Nagoya Branch 1962, Man. Dir. and Man., Head Office Business Dept. 1965, Senior Man. Dir. 1968, Pres. 1971-; Dir. Japan Fed. of Employers Assn. 1971-, Fed. of Econ. Orgs. 1971-, Mitsui Devt. Co. 1972-, Mitsui Memorial Hosp. 1972-, Mitsui Kanko Devt. Co. Ltd. 1973-. *Leisure interests:* listening to music, reading, golf. *Address:* Mitsui Trust & Banking Co. Ltd., 1-1 Nihonbashi-Muromachi, 2-chome, Chuo-ku, 103 Tokyo (Office); 1605 Fueda, Kamakura-shi, Kanagawa Pref., 248 Japan (Home). *Telephone:* 03-270-9511 (Office); 0467-31-1647 (Home).

SHOPPEE, Charles William, M.A., D.PHIL., PH.D., D.SC., F.R.S.; British university professor; b. 24 Feb. 1904, London; elder s. of J. W. and Elizabeth Shoppee; m. Eileen Alice West 1929; one d.; ed. Stationers' Company School, London, and Univs. of London, Leeds and Basel; Senior Student of Royal Comm. for Exhbn. of 1851 1926-28; Asst. Lecturer and Lecturer in Organic Chem., Univ. of Leeds 1929-39; Rockefeller Research Fellow, Univ. of Basel 1939-45; Reader in Chem., Univ. of London, at Royal Cancer Hospital 1945-48; Prof. of Chem., Univ. of Wales, at Univ. Coll., Swansea 1948-56; Prof. of Organic Chem., Univ. of Sydney 1956-69, now Emer.; Robert A. Welch Foundation Prof. of Chem., Tex. Technological Univ. 1970-75; Reilly Lecturer, Univ. of Notre Dame 1951; Visiting Prof. of Organic Chem., Duke Univ. 1963, Univ. of Georgia 1966, Univ. of Miss. 1968, Fellow, Australian Acad. of Science 1958-; Hon. Prof. Fellow Macquarie Univ. 1975-. *Publications:* Some 200 scientific papers in Journal of Chemical Society (London), Journal of American Chemical Society and Helvetica Chimica Acta. *Leisure interests:* bowls, music. *Address:* 41 Kenthurst Road, St. Ives, N.S.W. 2075, Australia. *Telephone:* 449 7603.

SHORE, Rt. Hon. Peter (David), P.C., M.P.; British politician; b. 20 May 1924; m. Elizabeth Catherine Wrong 1948; two s. (one deceased) two d.; ed. Quarry Bank High School, Liverpool, and King's Coll., Cambridge; mem. Labour Party 1948-; Head of Research Dept., Labour Party 1959-64; M.P. for Stepney 1964-74, for Tower Hamlets, Stepney and Poplar 1974-; Parl. Private Sec. to Prime Minister 1965-66; Joint Parl. Sec. Ministry of Tech. 1966-67; Sec. of State for Econ. Affairs 1967-69; Minister without Portfolio 1969-70; Labour Party Spokesman on European Affairs 1971-74; Sec. of State for Trade 1974-76, for the Environment 1976-79; Pres. British Overseas Trade Board 1974-76; Opposition Spokesman for Foreign Affairs June 1979-. *Publication:* Entitled to Know 1966. *Leisure interest:* swimming. *Address:* House of Commons, London, S.W.1, England.

SHORE, Thomas Spencer, A.B., B.J., M.B.A.; American industrialist; b. 24 June 1903; ed. Univ. of Missouri and Harvard Univ.; with Goldman, Sachs & Co. N.Y. (Investment Bankers) 1926-31; Vice-Pres. and Treas. The General Tire & Rubber Co., Akron, Ohio 1931-43; Gen. Partner, Goldman, Sachs & Co., New York 1943-48; Pres. Eagle-Picher Industries Inc., Cincinnati, (fmrly Eagle-Picher Co.) 1949-68, Chair. 1968-; Dir. Cen. Trust Co., Cincinnati, Gas and Electric Co., Cluett, Peabody & Co., Kroger Co., Federated Dept. Stores Inc., Cincinnati Reds Inc., Armco Steel Corpn., Middletown,

Ohio. *Address:* American Building, Cincinnati, Ohio 45202 (Office); Edwards and Walsh Roads, Cincinnati, Ohio 45208, U.S.A. (Home).

SHORES, Louis, A.B., B.S. in L.S., M.S., PH.D.; American librarian, editor and writer; b. 14 Sept. 1904, Buffalo, N.Y.; s. of Paul and Ernestine Lutenber Shores; m. Geraldine Urist 1931; ed. Toledo, Columbia Univs., City of New York Coll., Chicago Univ. and George Peabody Coll.; served in New York Public Library 1926-28; Fisk Univ. 1928-33; Dir. and Prof., Library School, George Peabody Coll. 1933-46; Dean, Library School, Florida State Univ. 1946-67, Dean Emer. 1967-; Visiting Prof. McGill Univ. 1930, Univ. of Dayton 1931, Colorado State Coll. 1936, Univ. of Southern Ill. 1968, Univ. of Colorado 1969, Dalhousie Univ. 1970; Ed.-in-Chief, Colliers Encyclopedia 1960-; charter mem. President's Club, Univ. Fla. 1977; Dir. Assen. of Coll. and Reference Librarians; Legion of Merit; Fulbright Fellow, U.K. 1951-52; Isadore Gilbert Mudge Award in Reference Librarianship 1967; Beta Phi Mu Int. Library Science Honorary in Library Educ. 1967; Hon. Dr. Humanistic Letters (Dallas Baptist Coll.). *Publications:* Origins of the American College Library 1934, Bibliographies and Summaries in Education (with another) 1936, Basic Reference Books 1937, 1939, How to Study (with another) 1948, General Education (with others) 1949, Highways in the Sky 1947, Challenges to Librarianship 1953, Basic Reference Sources 1954, Instructional Materials 1960, Mark Hopkins Log 1965, The Library College (with others) 1966, Tex-Tec (with others) 1968, Library-College U.S.A. 1970, Looking Forward to 1999 1972, Library Education 1972, Audiovisual Librarianship 1973, Quiet World 1975, The Generic Book 1976, Speculation: Concern with Ultimates 1977, Encyclopedia: A Commonplace Book 1977, and numerous articles. *Leisure interests:* hiking, reading, book collecting, extrasensory perception. *Address:* Florida State University, Tallahassee, Florida (Office); 2013 W. Randolph Circle, Tallahassee, Florida, 32303 U.S.A. (Home). *Telephone:* 599-3132 (Office); 385-12708 (Home).

SHORT, Rt. Hon. Edward Watson (see Glenamara, Baron).

SHOUKRY, Mohammed Anwar; Egyptian egyptologist; b. 1905; ed. Cairo Univ. Inst. of Egyptology and Univ. of Göttingen; Asst. Prof. of Egyptology Cairo Univ. 1948-52, Prof. 1952; Chief Archaeologist Cen. of Documentation of Egyptian Art and Civilisation 1956-59; Dir.-Gen. Dept. of Egyptian Antiquities 1959-66; Asst. Under-Sec. of State, Ministry of Culture and Nat. Guidance 1961-70; Resident Archaeologist in Nubia 1964. *Publications:* Die Grabstatue im Alten Reich, Egyptian Art from the Beginning till the End of the Ancient Kingdom (in Arabic). *Address:* c/o Ministry of Culture, Cairo, Egypt.

SHOWERING, Keith Stanley; British business executive; b. 6 Aug. 1930, Shepton Mallet, Somerset; s. of late Herbert M. V. Showering and of Ada A. Showering; m. Marie Sadie Golden 1954; four s. two d.; ed. Wells Cathedral School; joined Showerings Ltd., Cidermakers and Brewers 1947, Dir. 1951; Founder Dir. Showerings, Vine Products & Whiteways Ltd. 1961, Deputy Chair. 1964-71, Chief Exec. 1971; Man. Dir. Harveys of Bristol Ltd., John Harvey & Sons Ltd. 1966-71; Chair. John Harvey & Sons Ltd. 1971; Dir. Allied Breweries Ltd. 1968, Vice-Chair. 1969-75, Deputy Chair., Chair. 1975, Chair. and Chief Exec. 1977-; Dir. Guardian Royal Exchange 1971, Vice-Chair. 1974; Dir. Tooheys 1976-, J. Lyons 1978- (Acting Chair. 1978-79), Holland & Holland Ltd. 1978-, Midland Bank Ltd. 1979-. *Leisure interests:* farming, shooting. *Address:* Allied Breweries Ltd., 160 St. John Street, London, EC1P 1AR, England.

SHRIMALI, Kalu Lal, M.A., PH.D., LL.D., D.LITT.; Indian educationist and politician; b. 30 Dec. 1909, Udaipur, Rajasthan; s. of R. L. and K. Shrimali; m. Gangabai Shrimali 1926; two s. three d.; ed. Banaras Hindu Univ., Calcutta Univ. and Columbia Univ., New York; Dean, Faculty of Educ. Univ. of Rajputana 1951-54; Parl. Sec. Ministry of Educ. New Delhi 1953-55, Deputy Minister for Educ. 1955-57, Minister of State in Ministry of Educ. and Scientific Research 1957-58, Minister of Educ. 1958-63; Vice-Chancellor Univ. of Mysore 1964-69; Vice-Chancellor, Banaras Hindu Univ. 1969-77; Chair. Assen. of Commonwealth Univs. 1969-70; mem. Admin. Board, Int. Assen. of Univs. 1970-74, Vice-Pres. 1975-; Chair. Inter-Univ. Board of India 1972-73; Pres. All-India Fed. of Educ. Asscns.; Leader Indian Del. to U.S.S.R. (sponsored by Nat. Cttee., Indo-Soviet Cultural Soc.) June 1973; life mem. Vidya Bhawan Soc. 1931; Hon. D.Litt. (Banaras Hindu Univ. and Mysore Univ.), Hon. LL.D. (Vikram Univ.), Hon. D.Sc. (Kiev Univ.); Padma Vibhushan 1976. *Publications:* Bachon Ki Kuch Samasyayen (Hindi), Shiksha aur Bhartiya Loktantra (Hindi), The Wardha Scheme, Adventures in Education, Problems of Education in India, Education in Changing India, The Prospects for Democracy in India, A Search for Values in Indian Education. *Leisure interest:* gardening. *Address:* c/o Banares Hindu University, Varanasi 5, Uttar Pradesh, India. *Telephone:* 62339.

SHRIVER, (Robert) Sargent, Jr., B.S., LL.D.; American executive and public servant; b. 9 Nov. 1915, Westminster, Maryland; m. Eunice Kennedy 1953; four s. one d.; ed. Yale Univ.; admitted to N.Y. Bar 1941; served U.S. Navy 1941-45; Asst. Editor Newsweek 1945-46; Exec. Dir. The Joseph P. Kennedy, Jr. Foundation 1955-; Asst. Gen. Man. The Merchandise Mart 1948-61; mem. Chicago Board of Educ. 1955-60, Pres. 1956-60; Dir. The Peace Corps 1961-66, Office of Econ. Opportunity 1964-68; Special Asst. to the Pres. 1964-68; Amb. to France 1968-70; Democratic Vice-Presidential Cand. 1972; Partner, Fried, Frank, Harris, Shriver & Jacobson 1971-; official of numerous educational bodies; Hon. LL.D., Hon. L.H.D., Hon. D.C.L., etc. from numerous univs.; Golden Heart Presidential Award (Philippines), Médaille de Vermeil (City of Paris) and many national awards. *Address:* c/o Fried, Frank, Harris, Shriver & Jacobson, 120 Broadway, New York, N.Y. 10005; and 600 New Hampshire Avenue, N.W., Washington, D.C., U.S.A. *Telephone:* (212) 964-6500 (N.Y.); (202) 342-3555 (Washington, D.C.).

SHUCKBURGH, Sir Evelyn, G.C.M.G., C.B.; British fmr. diplomatist; b. 26 May 1909, London; s. of Sir John Shuckburgh, K.C.M.G., C.B.; m. Hon. Nancy Brett 1937; two s. one d.; ed. Winchester Coll. and King's Coll., Cambridge; joined Foreign Office 1933; served Cairo 1937-39, Ottawa 1940-42, Buenos Aires 1942-45, Prague 1945-47; Head of South American Dept., Foreign Office 1947-48, Western Dept., Western Orgs. Dept. 1949-51; Private Sec. to Sec. of State for Foreign Affairs 1951-54; Asst. Under-Sec. of State, Foreign Office 1954-56; seconded to Imperial Defence Coll. as civilian instructor 1956-58; Asst. Sec.-Gen. (Political Affairs) NATO 1958-60; Deputy Under-Sec. Foreign Office, responsible for NATO, Western European Union, Council of Europe and W. European Countries 1960-62; Perm. Rep. to NATO 1962-66; Amb. to Italy 1966-69; Chair. Exec. Cttee., British Red Cross Soc. 1970-, Chair. Council 1976-; mem. Standing Comm. Int. Red Cross 1974-, Chair. 1977-. *Leisure interests:* music, cabinet making. *Address:* High Wood, Watlington, Oxford, England. *Telephone:* Watlington 2433.

SHUKLA, Shyama Charan; Indian politician; b. 27 Feb. 1925, Raipur; ed. Raipur, Banaras and Nagpur; mem. of Parl. for Vidhan Sabha 1957-; Minister for Irrigation 1967; Chief Minister, Madhya Pradesh 1969-72, 1975-77; Chief Ed., Founder Mahakoshal. *Address:* c/o Chief Minister's Residence, Shamla Road, Bhopal, Madhya Pradesh, India.

SHUKLA, Vidya Charan, B.A.; Indian politician; b. 2 Aug. 1929, Raipur; s. of Ravi Shanker and Bhawani Shukla; m. Sarala Shukla 1951; three d.; ed. Morris Coll., and Univ. Coll. of Law, Nagpur; mem., Lok Sabha 1957-62, 1962-67, 1967-70, 1971-77; Deputy Minister of Communications and Parl. Affairs Jan.-Feb. 1966; Deputy Minister for Home Affairs 1966-67; Minister of State in Ministry of Home Affairs 1967-70; Minister of Revenue and Expenditure in Ministry of Finance 1970-71, Minister of Defence Production 1971-74, Minister of State for Planning 1974-75, for Information and Broadcasting 1975-77; convicted for destroying film Feb. 1979. *Leisure interests:* hunting, tracking and photography. *Address:* 146 Sundernagar, New Delhi 110003, India. *Telephone:* 693124.

SHULL, Harrison, PH.D.; American professor of chemistry; b. 17 Aug. 1923, Princeton, N.J.; s. of Prof. George H. Shull and Mary J. Nicholl; m. 1st Jeanne L. Johnson 1948 (dissolved 1962), 2nd Wil J. Bentley 1962; five s. three d.; ed. Princeton Univ. and Univ. of California (Berkeley); Nat. Research Council post-doctoral Fellow, Univ. of Chicago 1948-49; Asst. Prof., Iowa State Univ., Ames, Iowa 1949-54; Assoc. Prof., Indiana Univ. 1955-58, Prof. 1958-61, Research Prof. 1961-, Dir. Research Computing Center 1959-63, Dean Graduate School 1965-72; Nat. Science Foundation Senior post-doctoral Fellow 1968-69; Guggenheim Fellow 1954-55; Alfred P. Sloan Research Fellow 1956-58; Vice-Chancellor for Research and Devt., Indiana Univ. 1972-76; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences. *Publications:* numerous articles in Journal of Chemical Physics, Physical Review, Journal of Physical Chemistry etc. *Address:* Chemistry Department, Indiana University, Bloomington, Ind. 47401 (Office); 2807 Pine Lane, Bloomington, Ind. 47401, U.S.A. (Home).

SHULTZ, George Pratt, B.A., PH.D.; American economist, educator and government official; b. 13 Dec. 1920, New York; s. of Birl E. and Margaret Lennox Pratt Shultz; m. Helena M. O'Brien 1946; two s. three d.; ed. Princeton Univ. and Mass. Inst. of Technology; Assoc. Prof. of Industrial Relations, M.I.T. 1955-57; Senior Staff Economist, President's Council of Econ. Advisers 1955-56; Prof. of Industrial Relations, Graduate School of Business, Univ. of Chicago

1957-68; Consultant to Office of U.S. Sec. of Labor 1959-60; mem. Illinois Governor's Cttee. on Unemployment 1961-62; Consultant to Pres. Advisory Comm. on Labor-Man. Policy 1961-62; Dean, Graduate School of Business, Univ. of Chicago 1962-68; Chair. U.S. Dept. of Labor Task Force on U.S. Employment Service 1965-68; mem. U.S. Dept. of Labor Nat. Manpower Policy Task Force 1966-68; Pres. Industrial Research Assn. 1968; U.S. Sec. of Labor 1969-70; Dir. Office of Man. and Budget, Exec. Office of the Pres. 1970-72; U.S. Sec. of Treasury 1972-74; Chair. Council on Econ. Policy 1973-74; Exec. Vice-Pres. Bechtel Corpn. 1974-75, Pres. 1975-; Prof. of Man. and Public Policy, Graduate School of Business, Stanford Univ. 1974-; mem. Foreign Intelligence Advisory Board 1974-; mem. Treasury Advisory Cttee. on Reform of Int. Monetary System 1975-; Dir. J. P. Morgan 1974-, Borg-Warner Corpn., J. I. Case Co., Stein Roe and Farnham Stock Fund and Balanced Fund, Fellow, Center for Advancement of Study in the Behavioral Sciences, Stanford, Calif. *Publications:* The Dynamics of a Labor Market, Management Organization and the Computer, Strategies for the Displaced Worker, Guidelines, Informal Controls and the Market Place, Economic Policy beyond the Headlines (co-author). *Leisure interests:* golf, tennis. *Address:* 776 Dolores Street, Stanford, Calif. 94305, U.S.A.

SHUMAUSKAS, Moteyus Yuozovich; Soviet politician; b. 15 Nov. 1905, Kaunas City, Lithuania; ed. Int. Lenin School; Member CPSU 1924; forced labour and concentration camps 1929, 1931-37, 1939-40; Deputy, People's Seym, Lithuania 1940-; Deputy Chair. Council of Lithuanian People's Commissariat 1941-46; Chair. Lithuanian Planning Cttee. 1944-50; Deputy, U.S.S.R. Supreme Soviet 1946-; mem. Lithuanian S.S.R. Supreme Soviet 1947-; mem. Bureau Cen. Cttee. Lithuanian CP 1949-63, 1966-76, mem. Presidium 1963-66; First Sec. Shyaulyay Party Cttee. 1950-53; First Deputy Chair. Lithuanian Council of Ministers 1953, Chair. 1956-67; Cand. mem. Cen. Cttee. CPSU 1956-76; Pres. of Presidium of Supreme Soviet of Lithuanian S.S.R. 1967-75; Vice-Chair. Presidium of Supreme Soviet of U.S.S.R. 1967-75 (retd.); Order of Lenin; Hero of Socialist Labour 1975; Order of the Red Banner of Labour; Order of the Great Patriotic War (1st Class); Order (2nd Class) of the Cross of Grunvald, Poland. *Address:* c/o Presidium of Supreme Soviet of Lithuanian S.S.R., Vilnius, U.S.S.R.

SHUMWAY, Forrest N.; American business executive; b. 21 March 1927; ed. Stanford Univ.; in U.S. Marine Corps; Senior Law Clerk and Deputy County Counsel, Los Angeles until 1957; joined Legal Dept., Signal Oil and Gas Co. (now Signal Companies Inc.) 1957, Sec. 1959-60, Asst. Gen. Counsel 1960-61, Vice-Pres. and Gen. Counsel 1961-64, Dir. 1961-, Pres. 1964-, Chief Exec. Officer 1968-; Dir. The Garrett Corpn., Mack Trucks Inc., W. R. Grace & Co., Transamerica Corpn., United Calif. Bank; official of civic orgs. *Address:* Signal Companies Inc., 9665 Wilshire Boulevard, Beverly Hills, Calif. 90212, U.S.A.

SHUMWAY, Norman Edward, M.D., PH.D.; American surgeon; b. 1923, Kalamazoo, Mich.; m. Mary Lou Sturman; one s. three d.; ed. Vanderbilt Univ. and Univ. of Minnesota; Intern, Univ. of Minnesota Hospitals 1949-50, Medical Fellow in Surgery 1950-51, 1953, 1954; Nat. Heart Inst. Research Fellow 1954-56, Special Trainee 1956-57; mem. Surgical Staff, Stanford Univ. Hospitals 1958-, Asst. Prof. of Surgery 1959-61, Assoc. Prof. 1961-65, Head of Div. of Cardiovascular Surgery 1964-74, Prof. of Surgery 1965-74, Prof. Cardiovascular Surgery 1974-; Chair. Dept. of Cardiovascular Surgery, Stanford Univ. Medical Center 1974-; has performed heart transplant operations. *Address:* Department of Cardiovascular Surgery, Stanford University Medical Center, Stanford, Calif. 94305, U.S.A. *Telephone:* (415) 497-5771.

SHUWA, Maj.-Gen. Muhammed; Nigerian army officer and government official; b. 1 Sept. 1939, Masharte, Borne State; m.; three c.; ed. Barewa Coll., Zaria, Royal Mil. Acad., Sandhurst, Joint Services Staff Coll., Royal Coll. of Defence Studies, London; Platoon Commdr. 1961, Co. Commdr. 1963-65, Battalion Commdr. 1966; Brigade Commdr. and Div. Commdr. during civil war 1967; Principal Gen. Staff Officer, Army HQ 1970-75; Fed. Commr. for Trade 1975-78, for Works and Housing July 1978-. *Address:* Federal Executive Council, Lagos, Nigeria.

SIAD BARRE, Maj.-Gen. Muhammad; Somali army officer and politician; b. 1919, Lugh District; Chief Insp., Somali Police Force; Col., Vice-Commdt. Somali Nat. Army 1960, Commdt. 1965, Maj.-Gen. 1966, C.-in-C. of the Armed Forces; led successful coup against govt. Oct. 1969; Head of State Oct. 1969-; Pres. Supreme Revolutionary Council 1969-76; Sec.-Gen. Somali Socialist Revolutionary Party (SRP) July 1976-; Chair. Council of Ministers July 1976-; Chair. OAU 1974-75. *Address:* Office of the Head of State, Mogadishu, Somalia.

SIASSI, Ali-Akbar, PH.D.; Iranian psychologist and politician; b. 1896, Teheran; s. of Mohammad Hassan and Sedigheh Sadeghi; m. Roshan Maleh Bayat 1932; three s. one d.; ed. Persia and France; Prof., Univ. of Teheran 1927-; Head of Dept. of Advanced Studies of the Min. of Educ. 1932; Chancellor of the Univ. of Teheran 1942; Min. of Educ. 1943; drafted bill and law for national compulsory free education, and took necessary measures for its enforcement 1943; Min. of State without portfolio 1945; Minister of Educ. 1948-50; Minister of Foreign Affairs 1950; mem. of the Supreme Council of Educ.; del III Int. Congress of Persian Art and Archaeology 1935, UN Conf. San Francisco 1945; Pres. Iranian del. UNESCO Conf. Paris 1949, Int. Conf. of Univs. 1950, UNESCO Conf. Paris 1951, Int. Conf. of Univs., Mexico City 1960, Royal Soc. Tricentenary Celebrations, London 1960; Perm. mem. of the Persian Acad.; Hon. Pres. Univ. of Teheran; mem. Int. Cttee. Scientific and Cultural History of Humanity; Pres. Iranian Psychological Assn., Iranian Council of Phil. and Human Sciences, Irane-Djavan Assn.; mem. Int. Council of Psychologists, Int. Assn. of Applied Psychology and others; Commdr. Légion d'honneur; Commdr. Palmes académiques, Nishane-Elmy and others; Hon. degrees, Univ. Charles I, Prague, Strasbourg Univ., etc. *Publications include:* L'Education en Perse 1921, La Perse au Contact de l'Occident 1931, La Méthode des Tests 1931, Le Génie et l'Art iraniens aux prises avec l'Islam 1935, De l'Unesco à la Sorbonne 1953, L'Iran au XIXe siècle (all in French); Psychology 1938, Educational Psychology for Teachers' Colleges 1941, Introduction to Philosophy 1947, Logic and Methodology 1948, Mind and Body 1953, The Psychology of Avicenna and its similarities with the Modern Psychology 1954, Logic 1956, Ethics 1957, Logic and Philosophy 1958, Intelligence and Reason 1962, Criminal Psychology 1964, Psychology of Personality 1970, Theories of Personality 1975 (all in Persian). *Leisure interests:* reading, writing, travelling, bridge.

SIBLEY, Antoinette, C.B.E.; British ballerina; b. 27 Feb. 1939, Bromley, Kent; d. of Edward G. Sibley and Winifred Smith; m. 1st Michael Somes 1964 (dissolved); m. 2nd Panton Corbett 1974, one d.; joined the Royal Ballet 1956, Soloist 1959, Principal Ballerina 1960-; dances leading roles in: Swan Lake, Sleeping Beauty, Coppelia, The Nutcracker, La Fille Mal Gardée, Romeo and Juliet, Jabez and the Devil (created role of Mary), The Dream (created Titania), Jazz Calendar (created Friday's Child), Enigma Variations (created Dorabella), Thais (created Thais), Triad (created the Girl), Manon, etc.; made film The Turning Point 1978. *Publication:* Sibley and Dowell 1976. *Leisure interests:* doing nothing, opera, cinema, reading. *Address:* c/o The Royal Ballet, Covent Garden, London, W.C.2, England.

SICAT, Gerardo P., M.A., PH.D.; Philippine professor of economics and government official; b. 7 Oct. 1935; s. of Eloy S. Sicat and Flora C. Pasión; m. Loretta S. Makasiar 1958; one s. three d.; ed. Univ. of the Philippines and Massachusetts Inst. of Technology; Prof. of Econ., Univ. of the Philippines 1969-, Regent 1972-; Chair. Nat. Econ. Council 1970-72; Dir.-Gen. Nat. Econ. and Devt. Authority, Govt. of the Philippines 1972-, Sec., Econ. Planning 1974-. *Publications:* Production Functions in Philippine Manufacturing 1964, Regional Economic Development in the Philippines 1970, Philippine Development and Economic Policy 1972 and several other works. *Leisure interests:* tennis, swimming, running. *Address:* National Economic and Development Authority, Padre Faura Street, Ermita, Manila, Philippines. *Telephone:* 59-48-75; 58-56-14; 59-70-91.

SICKINGHE, Jonkheer Feyo Onno Joost, LL.D.; Netherlands business executive; b. 1 May 1926, The Hague; s. of Jonkheer D. W. Sickinghe and Jonkvrouwe W. J. M. E. Radermacher Schorer; m. M. C. van Eeghen 1952; two s. two d.; ed. Univ. of Utrecht; Solicitor 1952-55; various staff functions within VMF Stork 1955-67; Man. Dir. Koninklijke Machinefabriek Stork N.V. 1967; mem. Board of Man., Verenigde Machinefabrieken Stork N.V. 1969, Chair. 1971-; mem. Board of Dirs. De Nederlandsche Bank N.V., Hagemeijer N.V., European Community Trust N.V. 1973-, Amrobank N.V. 1974; Pres. Utrecht Univ. Foundation; mem. Board, Protestant Political Party (CHU), Advisory Board, R. J. Reynolds Industries Inc.; Exec. mem. Fed. of Netherlands Industry. *Leisure interests:* sailing, theatre. *Address:* Oud Blaricummerweg 7, Naarden, Netherlands. *Telephone:* 02159-43728.

SICLAIT, Raoul, LIC. EN DROIT; Haitian diplomatist; b. 3 April 1921, Petit-Goave; ed. Nat. Schools of Agriculture, Accounting and Journalism, and Univ. of Haiti; Asst. Dept. of Foreign Affairs 1957; Dir. Int. Congresses and Confs. Dept. 1958; First Sec., Santo Domingo 1960, Consul-Gen., Chargé d'affaires 1961; Minister-Counsellor, Del. to OAS 1962, Perm. Mission to UN 1963; Deputy

Perm. Rep. to UN 1964-73, Perm. Rep. 1973-76; rep. to UN Gen. Assembly 1963-76; Vice-Chair. Special Cttee. on Apartheid 1972-76. *Address:* c/o Ministry of Foreign Affairs, Port-au-Prince, Haiti.

SIDAROUSS, H.E. Cardinal Stephanos I; Egyptian ecclesiastic; b. 22 Feb. 1904, Cairo; ed. Jesuits' Coll. Cairo, Univ. de Paris and Ecole libre des sciences politiques; Barrister, Egypt 1926-32; Vincentian Priest 1939-; Prof. Seminaries at Evreux, Dax and Beauvais (France); Rector Coptic Catholic Seminary, Tahta 1946, Tanta 1947-53, Maadi 1953-58; Auxiliary Bishop to the Patriarch of Alexandria, 1947-58, Patriarch 1958-; created Cardinal 1965. *Address:* 34 Ibn Sandar Street, Koubbeh Bridge, Cairo, Egypt. *Telephone:* 821-740; 827-816.

SIDDALL, Norman, C.B.E., C.ENG., F.I.MIN.E., F.B.I.M., F.R.S.A.; British mining engineer; b. 1918; ed. King Edward VII School, Sheffield, Sheffield Univ.; with B.A. Collieries Ltd. 1938- Undermanager, then Asst. Man. of Gedling Colliery, later as Man. of Bestwood Colliery, Nottingham 1936-47; Area Gen. Man. of No. 5 Area in East Midlands Div.; Area Gen. Man. of No. 1 (Bolsover) Area 1957; Chief Mining Eng., H.Q. Production Dept. 1966; Dir.-Gen. of Production 1967; mem. Nat. Coal Board 1971, Deputy Chair. 1973-; Vice-Chair. Int. Organizing Cttee. World Mining Congress 1977-; mem. American Inst. of Mining Engineers. *Address:* National Coal Board, Hobart House, Grosvenor Place, London, SW1X 7AE, England. *Telephone:* 01-235 2020.

SIDDIQI, M. Raziuddin, M.A., PH.D., D.S.; Pakistani educationist and scientist; b. 2 Jan. 1908, Hyderabad (Deccan): s. of M. Muzaffaruddin Siddiqi and Amatullah Begum; m. Khurshid Jahan Kazim Yar Jung 1933; one s. three d.; ed. Osmania, Cambridge, Berlin, Göttingen, Leipzig, Paris Univs.; Prof. of Mathematics, Dir. of Research and Vice-Chancellor, Osmania Univ. 1931-50; Dir. of Research and Vice-Chancellor, Peshawar Univ. 1950-58; Vice-Chancellor, Univ. of Sind 1959-64; Pres. Pakistan Acad. of Sciences 1961-67, Sec. 1953-61, 1969-; Vice-Chancellor, Univ. of Islamabad 1965-73; Joint Sec. (in charge) Scientific and Technological Research Div., President's Secr. *Publications:* Lectures on Quantum Mechanics 1937, Boundary Problems in Non-linear Partial Differential Equations 1938, Theory of Relativity 1940, Problems of Education 1943, Iqbal's Concept of Time and Space 1973, Establishing a new University: Policies and Procedures. *Leisure interests:* educational, scientific, literary studies and writings. *Address:* Pakistan Academy of Sciences, Islamabad; House 34, Street 32, Shalimar 7/1, Islamabad, Pakistan (Home). *Telephone:* 27240; 26689.

SIDDIQUI, Salimuzzaman, M.B.E., D.PHIL., F.R.S.; Pakistani scientist; b. 19 Oct. 1897, Subeha, U.P., India; s. of late Shaikh Mohammad Zaman and Maqbul-Un-Nisa; m. Shakira Khatoon 1926; three s.: ed. Muslim Univ., Aligarh, India, Univ. Coll. London and Univ. of Frankfurt-am-Main; Dir. Research Inst., Ayurvedic and Unam Tibbi Coll., Delhi 1928-40; Organic Chemist, Council of Scientific and Industrial Research (India) 1940-44, Acting Dir. 1944-47; Dir. Nat. Chemical Lab. (India) 1947-51; Dir. Dept. Scientific and Industrial Research (Pakistan) 1951-66; Dir. and Chair. Pakistan Council of Scientific and Industrial Research 1951-66; Chair. Nat. Science Council 1962-66; Dir. Postgraduate Inst. of Chem., Univ. of Karachi, Pakistan 1966-; Pres. Pakistan Acad. of Sciences 1967; mem. Vatican Acad. of Sciences and Pontifical Academician; Gold Medal, Soviet Acad. of Sciences 1958; President's Pride of Performance Medal (Pakistan) 1966; Hon. D.Sc. (Karachi and Leeds); D.Med. h.c. (Frankfurt). *Publications:* Over a hundred research papers and memoirs on chemical studies relating to alkaloids, also studies on natural resins, plant bitters and plant colouring matters. Granted over 50 patents to processes concerned with utilization of natural products. *Leisure interests:* painting, chess. *Address:* Postgraduate Institute of Chemistry, University of Karachi, Karachi (Office); 8 A, Karachi University Campus, Country Club Road, Karachi 32, Pakistan (Home). *Telephone:* 413414 (Office); 416993 (Home).

SIDENBLADH, Göran; Swedish architect and town planner; b. 19 March 1912, Stockholm; s. of Karl E. Sidenbladh and Gertrud Bernström; m. Suzanne Hedenlund 1944; two d.; ed. Royal Institute of Polytechnics, Stockholm; Asst. Planner, Stockholm County Council; Consultant and with Göteborg City Planning Dept. 1936-43; Senior Planner, Stockholm Planning Dept. 1944-55, Dir. 1955-73; Consultant, Prof., Nordic Inst. for Planning, Stockholm 1973-77; mem. Royal Swedish Acad. of Eng. Sciences 1962-; corresp. mem. RIBA 1963. *Publications:* articles on town planning. *Leisure interests:* dendrology, roses. *Address:* Mäster Mikaels G 11, 116 45 Stockholm, Sweden. *Telephone:* (08) 420313.

SIDI BABA, Dey Ould; Moroccan diplomatist; b. 1921, Atar, Mauritania; m.; five c.; Counsellor, Ministry of Foreign Affairs, Morocco 1958-59; Head of African Div. 1959-61; mem. Moroccan Dels. to UN Gen. Assembly 1959-64; Amb. to Guinea 1961-62; Acting Perm. Rep. of Morocco to UN 1963-65, Perm. Rep. 1965-67; Vice-Pres. of Gen. Assembly of UN 1966; Minister of Royal Cabinet 1967-71, Dir. 1972-73; Amb. to Saudi Arabia 1971-72; Minister of Educ. 1973-74, of Waqfs and Islamic Affairs 1974-77; Pres. Chamber of Reps. 1977-; Commdr. du Trône alaonite 1965. *Address:* c/o Chamber of Representatives, Rabat, Morocco.

SIDKI, Aziz, B.ENG., M.A., PH.D.: Egyptian politician; b. 1 July 1920, Cairo; ed. Cairo Univ., Univ. of Oregon and Harvard Univ.; taught Cairo Univ.; Tech. Counsellor to the President 1953; Ministry for Industry 1956-63, Deputy Prime Minister and Minister for Industry and Mineral Wealth 1964-65; Minister for Industry, Petroleum and Mineral Wealth 1968-71; Deputy Prime Minister 1971-72; Prime Minister 1972-73; Acting Gen. Sec. Arab Socialist Union 1971-73; Personal Asst. to Pres. Sadat 1973-75; has participated in various int. confs. on industrial affairs. *Address:* c/o The Presidency, Cairo, Egypt.

SIDORENKO, Aleksandr Vasiliyevich; Soviet geologist and administrator; 19 Oct. 1917, Novo-Nikolayevka, Lugansk (now Voroshilovgrad) Region district; s. of Vasiliy Ivanovich Sidorenko and Pelageya Fyodorovna Sidorenko; m. Kaleria Petrovna Sidorenko; one s. two d.; ed. Voronezh State Univ.; Head, Laboratory, Turkmen branch, Soviet Acad. of Sciences 1943-50, Kola Branch 1950-61, Chair. Presidium Kola Branch 1950-61; Vice-Chair. R.S.F.S.R. State Cttee. for Co-ordination of Scientific Research Work 1961-62; Minister of Geology and Mineral Wealth Protection 1962-63; Chair. State Cttee. for Geology 1963-65; Minister of Geology 1965-76; Deputy to U.S.S.R. Supreme Soviet 1966-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-66, mem. 1966-; Cand. mem. CPSU 1942, CPSU Cen. Cttee. 1966-76; Chief Ed. Geology of the U.S.S.R. (40 vols.) 1964; Vice-Pres. U.S.S.R. Acad. of Sciences 1975-; Lenin Prize 1966; Order of Lenin (twice) and other decorations. *Publications:* numerous articles and papers on geological subjects including Principal Characteristics of Mineral Formation in Deserts 1956, Preglacial Erosion Crust of Kola Peninsula 1958, To the Problem of Litological Investigation of Metamorphic Rocks 1961, Organic Matter in the Precambrian Sedimentary-Metamorphic Rocks 1975. *Leisure interest:* geology. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospect, Moscow, U.S.S.R.

SIEBER, Gunter; German politician and diplomatist; b. 11 March 1930, Ilmenau; fmr. forestry worker; mem. Socialist Unity Party (SED) 1948-; with Deutsche Wirtschaftskommission 1948-49, G.D.R. Ministry of Planning 1949-51, State Planning Comm. 1951-52; First Sec. SED org. in State Planning Comm. 1954-62; Deputy Chair. Zentrale Kommission für Staatliche Kontrolle 1962-63; mem. Zentrale Revisionskommission der SED 1963-67; Cand. mem. SED Cen. Cttee. 1976-; Minister for Trade 1965-72; Amb. to Poland 1973-; Vaterländischer Verdienstorden in Bronze and Silver, Orden Banner der Arbeit and other decorations. *Address:* Embassy of the German Democratic Republic, Al. 1 Armil Wojska Polskiego 2-4, Warsaw, Poland.

SIEBER, Rolf, DR.RER.OEC., DR.SC.OEC.; German diplomatist; b. 10 Dec. 1929, Luzenau, Kreis Rochlitz; ed. Hochschule für Ökonomie, Berlin, Univ. of Moscow; Lecturer, Hochschule für Ökonomie, Berlin 1956-, Prof. of Political Economy 1969-; Official of G.D.R. Ministry of Foreign Affairs 1973-, Amb. to U.S.A. 1974-78; mem. Volkskammer 1967-, Chair. of Interparl. Group of Volkskammer 1967-74; mem. Communist Party (KPD) 1945, Socialist Unity Party 1946-; Vaterländischer Verdienstorden in Bronze, Verdienst medaille der DDR and other decorations. *Address:* c/o Ministry of Foreign Affairs, Berlin, German Democratic Republic.

SIEBOLD, Klaus; German mining engineer and politician; b. 12 Sept. 1930; Head of Coal Industry in G.D.R. State Planning Comm. Econ. Council 1959-63; Deputy Chair. Econ. Council (Coal and Energy) 1963-65; Minister of Raw Materials Industry 1965-71; Minister for Coal and Energy 1971-79; Vaterländischer Verdienstorden in Bronze and Silver. *Address:* c/o Ministerrat, Berlin, German Democratic Republic.

SIEFF, (Joseph) Edward; British business executive; b. 28 Nov. 1905; s. of Ephraim Sieff; brother of late Lord Sieff; m. 1st Maisie Marsh 1929, two d.; m. 2nd Lois Ross 1952, one s. one d.; ed. Manchester Grammar School and Manchester Univ.; joined Marks and Spencer Ltd. 1933, Dir. 1939-, Asst. Man. Dir. 1946-63, Joint Man. Dir. 1963-72, Deputy Chair. 1965-67, Chair. 1967-72, Pres. 1972-; Hon. Vice-Pres. Zionist Fed. of Great Britain and N. Ireland 1965-74, Pres. 1974-; Chair. Joint Israel Appeal 1961-65, Pres. 1965-. *Address:* Marks and Spencer Ltd., Michael House, Baker Street, London, W1A 1DN, England.

SIEFF, Sir Marcus Joseph, Kt., O.B.E., B.A.; British business executive; b. 2 July 1913; s. of late Lord Sieff; nephew of J. Edward Sieff (*q.v.*); m. 1st Rosalie Fromson 1937 (dissolved 1947), 2nd Elsa Gosen 1951 (dissolved 1953), 3rd Brenda Beith 1956 (dissolved 1962), 4th Mrs. Pauline L. Moretzki (née Spatz) 1963; one s. two d.; ed. Manchester Grammar School, St. Paul's, and Corpus Christi Coll., Cambridge; Dir. Marks and Spencer Ltd. 1954-, Asst. Man. Dir. 1963-65, Vice-Chair. 1965-67, Joint Man. Dir. 1967-, Deputy Chair. 1971-72, Chair. and Joint Man. Dir. 1972-; Pres. Anglo-Israel Chamber of Commerce; Vice-Pres. Joint Israel Appeal, Political and Econ. Planning; Chair., U.K. Cttee. Hubert H. Humphrey Award Scheme 1978-; Hon. Fellow, Weizmann Inst., Corpus Christi Coll., Cambridge Univ.; Patron of Royal Coll. of Surgeons; Hambro Award for Businessman of the Year 1976, AIMS' National Free Enterprise Award 1978. *Address:* Marks and Spencer Ltd., Michael House, Baker Street, London, W1A 1DN, England.

SIEGEL, Milton P.; American fmr. international official, educationist and management consultant; b. 23 July, 1911, Des Moines, Iowa; s. of Barney and Silvy (Levinson) Siegel; m. Rosalie Rosenberg 1934; one s. (deceased) two d. (one deceased); ed. Drake Univ., Des Moines; Dir. of Finance and Statistics, Iowa Emergency Relief Admin., Treas., Iowa Rural Rehabilitation Admin. 1933-35; Regional Finance and Business Man., Farm Security Admin., U.S. Dept. of Agriculture 1935-41, Chief Fiscal Officer 1942-44; Asst. Treas., Dir. Office for Far East, UNRRA 1944-45; Asst. Dir., Fiscal Branch, Production and Marketing Admin., U.S. Dept. of Agriculture 1945-47; Asst. Dir.-Gen. World Health Org. 1947-71; Health Man. Consultant, to Govt. of Iran 1975-76; Visiting Prof. Univ. of Michigan 1967; mem. Perm. Scale of Contributions Comm. LRCS 1967-; Visiting Prof., Univ. of North Carolina 1970; Consultant to Carolina Population Center 1970; Prof. of Int. Health, Health Science Center, Univ. of Tex. at Houston 1971-75; Chief Exec. Officer, Fed. of World Health Foundations 1972-; Man. Consultant, UN Devt. Programme 1976-77. *Publications:* articles and papers. *Address:* 1 Rue Viollier, 1207 Geneva, Switzerland; 2833 Sackett, Houston, Texas, U.S.A. *Telephone:* (022) 36-36-09 (Geneva); (713) 526-2583 (Houston).

SIEGFRIED, Charles A.; American business executive; b. 27 Aug. 1908, Orwigsburg, Pa.; m. Marjorie Young; one s. one d.; ed. Franklin and Marshall Coll.; Actuarial Clerk, Metropolitan Life Insurance Co. 1930; Manager of Ordinary Policy Contract Bureau of Actuarial Div. 1936, Asst. Actuary 1942-51, Assoc. Actuary 1951-53, Actuary May 1953, Second Vice-Pres. in Group Insurance Div. 1953-60, Vice-Pres. 1960-63, Sr. Vice-Pres. and Chief Actuary Feb. 1963-65, Exec. Vice-Pres. 1965-66, Dir. April 1966, Pres. Oct. 1966-69, Vice-Chair. of Board and Chair. of Exec. Cttee. 1969-73; Insurance Business Rep. on Fed. Govt.'s Advisory Council on Welfare and Pension Benefit Plans 1962; mem. Advisory Council on Social Security of Dept. of Health, Educ. and Welfare 1969; Dir. The Anaconda Co.; mem. Board of Trustees of Franklin and Marshall Coll., Board of Govs. of Soc. of Actuaries 1970; Fellow Soc. of Actuaries. *Address:* 29 Hillcrest Road, Madison, N.J. 07940, U.S.A. (Home).

SIEMENS, Ernst Albrecht von; German industrialist; b. 9 April 1903; ed. Munich Univ.; Mem. Supervisory Board, Siemens AG; Hon. Dr. Eng. Munich Tech. High School. *Address:* 8000 Munich 2, Wittelsbacherplatz 2, Federal Republic of Germany.

SIEMENS, Dr. Peter von; German business executive; b. 29 Jan. 1911, Berlin; s. of Werner Ferdinand and Katrin Heck von Siemens; m. Julia Lienau 1935; one s. one d.; ed. Realgymnasium, Berlin-Lankwitz, and Univs. of Freiburg, Munich, Cologne and Rostock; entered Siemens and Halske AG 1934; in Sales Dept. of Siemens-Reiniger-Werke AG, mainly in South America 1936-50; transferred to Siemens-Schuckertwerke AG, Erlangen 1950; Gen. Man. Siemens-Schuckertwerke AG 1957, Deputy mem. of Man. Board 1959, elected to Supervisory Board 1963; Deputy Chair. Supervisory Board of Siemens AG 1967-71, Chair. 1971-; mem. Supervisory Board of Allianz AG, München, Deutsche Bank AG, Frankfurt, Bayer AG, Leverkusen, Hamburg-Amerika Linie HAPAG, Hamburg, Mannesmann AG, Düsseldorf, J. M. Voith GmbH, Heidenheim; Hon. mem. Presidium, Cen. Cttee. of Electrotech. Industry; Hon. Citizen of Erlangen; Bavarian Order of Merit. *Address:* 8 Munich 2, Wittelsbacherplatz 2, Federal Republic of Germany. *Telephone:* 2342750.

SIEVERS WICKE, Hugo K.; Chilean veterinary physician and politician; b. 1903, Rengo; m. Elena Kutz Schroer 1931; ed. Colegio Alemán, Santiago and Univs. de Chile, Buenos Aires, La Plata, Rio de Janeiro, Inst. Pasteur and Inst. Curie, Paris, Inst. of Tropical Medicine, Hamburg; Asst. at Inst. for Veterinary Research 1924-27; Prof. School of Agric. 1927-28; Mil. Veterinary Physician 1926-32; Dir. Inst. of Veterinary Research, Ministry of Agriculture 1930-42; Dean School Veterinary Medicine, Univ. de Chile 1936-61; Vice-Rector Univ. de Chile 1953-61, now Prof. Emer.; Minister of Agric., Lands and Colonization 1955; Perm. Del. Int. Congress of Veterinary Medicine 1936-59; Pres. Chilean Soc. of Sciences 1964-; Founder mem. Soc. of Veterinary Physicians of Chile (and past Pres.), Chilean Natural History Soc., Anatomical Soc.; mem. Chilean Acad. Natural Sciences; Hon. mem. Soc. of Veterinary Science, Peru; Hon. Prof. Central Univ. de Quito, and Univ. Nacional de San Marcos, Lima; Dr. h.c. Univ. Austral de Chile; Decoration of the Rising Sun, Japan 1959; Decoration Eloy Alfaro Int. Foundation, Gold Medal Camara di Commercio, Industria e Agricultura, Trento, Italy. *Publications:* La vuelta del Mundo con 10 Estudiantes, Rutas Patagónicas, Chilenos en la Amazonia, Max Westenhöfer 1871-1951 (biography), Domingo Amunátegui Solar (biography), Teliatría, Nosotros y la Comunidad, Proteinas y Alimentación. *Address:* Las Trinitarias 6881, Las Condes, Santiago 10, Chile. *Telephone:* 480717.

SIGNORET, Simone (pseudonym of Simone Kaminker), German-born French actress; b. 25 March 1921; m. 1st Yves Allegret, 2nd Yves Montand (*q.v.*) 1951. *Films include:* Le Couple Idéal, Dédée d'Anvers, La Ronde, Casque d'Or, Thérèse Raquin, Les Diaboliques (The Fiends), La Mort en ce Jardin, Les Sorcières de Salem, Room at the Top ("Oscar" for best actress), Adua 1961, Term of Trial 1962, Dragées au Poivre, Ship of Fools, The Sleeping Car Murder, Games, The Deadly Affair, The Seagull, L'Aveu 1970, L'Armée des Ombres 1971, Le Chat 1971, Rude Journée pour la Reine 1973, La Chair de l'Orchidée 1975, La Vie devant soi 1976, Madame Rosa 1977, Le Sujet 1978, L'Adolescente 1978. *Publication:* La nostalgie n'est plus ce qu'elle était (memoirs) 1976. *Address:* 15 Place Dauphine, 75001 Paris, France.

SIGRIST, Helmut, DR. RER. POL.; German diplomatist; b. 1919, Frankfurt/Main; m.; four c.; ed. Humanistisches Gymnasium Gelsenkirchen-Schalke, Philosophisch-theologische Hochschule, Bamberg, and Univs. of Heidelberg and Denver, Colo., U.S.A.; Nat. Labour Service 1937; Mil. Service and Prisoner-of-war 1937-45; univ. studies 1945-50; entered Diplomatic Service 1951; Second Sec., later Sec., Washington 1953-55, Sec., Rome 1957-62, New Delhi 1962-64; Dir. of Training Centre for Senior Foreign Service Officials, Bonn 1955-57; Deputy Exec. Sec. of EEC Comm. 1964-67; Deputy Sec.-Gen. of Comm. of European Communities, Brussels 1967; Dir.-Gen. for External Relations, Comm. of European Communities Dec. 1968-72; in charge of Int. Trade Negotiations for the Fed. Repub. of Germany 1973-75; Asst. Dir. for Foreign Trade Policy, Devt. Policy and European Econ. Integration 1974-77; Perm. Rep. (Amb.) of the Fed. Repub. of Germany with the European Communities 1977. *Address:* Bundesministerium des Auswärtigen, 5300 Bonn 1, Rheindorferstrasse 198, Federal Republic of Germany.

SIGURDSSON, Halldór; Icelandic politician; b. 9 Sept. 1915, Snaefellssýsla; m. Margrét Gísladóttir; two s. one d.; ed. Co-operative Coll. of Iceland; farmer in Dalasýsla 1937-55; Mayor of Borgarnes 1955-68; mem. Central Cttee. Progressive Party 1953-; mem. Althing 1956-; Parl. Auditor of Nat. Revenue and Expenditure 1965-; Minister of Finance and Agric. 1971-74, of Agric. and Communications 1974-78. *Address:* c/o Althing, Reykjavík, Iceland.

SIGURDSSON, Jon; Icelandic lawyer and civil servant; b. 29 Oct. 1934, Reykjavík; s. of Sigurdur Jonsson and Ingebjör Palsdottir; m. Bergljot Jonatansdottir 1955; one s. two d.; ed. Univ. of Iceland and Univ. of Southern California School of Public Admin.; Asst. to Sec.-Gen., Ministry of Fisheries and Agric. 1958-62, Chief of Div. 1962-66; Adviser to Minister of Finance 1965-66; Budget Dir., Ministry of Finance 1966-67, Sec.-Gen. 1967-74, 1976-; Exec. Dir. for Denmark, Finland, Iceland, Norway, Sweden, IBRD 1974-76. *Addresss:* 6 Bakkaflöt, Gördum, Iceland.

SIGURDSSON, Niels P.; Icelandic diplomatist; b. 1926, Reykjavík; s. of Sigurdur B. Sigurdsson and Karitas Einarsdóttir; m. Olafia Rafnsdóttir; two s. one d.; ed. Univ. of Iceland; joined Diplomatic Service 1952; First Sec. Paris Embassy 1956-60; Deputy Perm. Rep. to NATO and OECD 1957-60; Dir. Int. Policy Div. Ministry of Foreign Affairs, Reykjavík 1961; Del. to the UN Gen. Assembly 1965; Amb. and Perm. Rep. of Iceland to North Atlantic Council; Amb. to Belgium and the EEC 1968; Amb. to UK. 1971-76, to Fed. Repub. of Germany 1976-78. *Leisure interests:* swimming, riding. *Address:* c/o Ministry of Foreign Affairs, Reykjavík, Iceland.

SIHANOUK, Prince Norodom (see Norodom Sihanouk, Prince).

SIILASVUO, Lieut.-Gen. Ensio; Finnish army officer; b. 1 Jan. 1922, Helsinki; s. of Lieut.-Gen. Hjalmar Siilasvuo and Salli Kolsi; m. Salli Paldanius 1947; three s.; ed. Lycée of Oulu, Finnish Mil. Acad., Finnish Command and Staff Coll.; Platoon Commdr., Infan-

try Co. Commdr. and Chief of Staff, Infantry Regiment 11 1941-44; Company Commdr., Infantry Regt. 1 1945-50; attended Command and Staff Coll. 1951-52; various staff appointments in mil. districts of N. Finland 1953-57; Commdr. Finnish Contingent, UN Emergency Force 1957; Mil. Observer, UN Observation Group in Lebanon 1958; Finnish Defence Attaché in Warsaw 1959-61; Staff Officer Third Div. 1962-64; Commdr. Finnish Contingent, UN Force in Cyprus 1964-65; Instructor, Nat. Defence Coll. 1965-67; Chief, Foreign Dept. GHQ 1967; Senior Staff Officer, UN Truce Supervision Org. in Palestine 1967-70; Chief of Staff, UN Truce Supervision Org. in Palestine 1970-73, Commdr. UN Emergency Force 1973-75; Chief Co-ordinator of UN Peace-Keeping Missions in Middle East 1975-; Grand Cross of the Order of the Lion of Finland; Finnish Cross of Freedom 3rd and 4th Class; Knight of the Order of the White Rose of Finland 1st Class. *Leisure interests:* UN peace-keeping affairs, history of the Middle East. *Address:* UNCC, P.O. Box 490, Jerusalem, Israel. *Telephone:* 716223, 4, 5.

SIJTHOFF, Hendrik Albert Henri; Netherlands publisher; b. 1915; ed. Univs. of Leipzig and Lausanne; Pres.-Dir. of Het Financieele Dagblad; Pres.-Dir. of Hendrik Sijthoff's Financieele Bladen N.V. *Address:* Weesperstraat 85, Amsterdam C, Netherlands (Office); 20 Mansion Place, Greenwich, Conn., U.S.A. (Home).

ŠIK, Ota, DR.SC.; fmr. Czechoslovak economist (deprived of Czech citizenship 1970); b. 11 Sept. 1919, Plzeň; s. of Oswald and Marie Šik; m. Lilli Grünfeld 1947; two s.; Dir., Econ. Inst. of Czechoslovak Acad. of Sciences 1963-68; Chair. of Scientific Collegium of Econ. Czechoslovak Acad. of Sciences 1963-69; Corresp. mem. Czechoslovak Acad. of Sciences 1960; mem. Cen. Cttee. of Communist Party of Czechoslovakia 1962-69; mem. Econ. Comm., Central Cttee. of Communist Party of Czechoslovakia 1962-69; mem. State Comm. for Man. and Org. 1963-68; mem. State Planning Comm.; Deputy Prime Minister 1968; mem. Econ. Council 1968-69; Deputy to Czech Nat. Council 1968-69; now Prof., Univ. of St. Gallen; Order of 25th February 1948; Klement Gottwald State Prize 1966; Dr. h.c. (Univ. of Lancaster); granted political asylum in Switzerland April 1970. *Publications include:* Economics, Interests, Politics, On the Question of Socialist Commodity Relations, Plan and Market under Socialism, Facts about the Czechoslovakian Economy, Democratic and Socialist Economy, Structural Changes of the Economic Systems in East-Europe, The Bureaucratic Economy 1972, Der Dritte Weg 1972, Argumente für den Dritten Weg 1973, Das Kommunistische Machtsystem 1976. *Leisure interest:* sport. *Address:* Hochschule St. Gallen, Dufourstrasse 50, 9000 St. Gallen, Switzerland.

SIKIVOU, Semesa Koroikilai, C.B.E., M.A.; Fijian diplomatist and politician; b. 13 Feb. 1917, Rewa, Fiji; s. of Navitalai Tubuna and Ateca Canavusa; m. 1st Seini Ratuvou 1944 (deceased), 2nd Salote Tabuanitoga 1957; five s. one d.; ed. schools in Fiji, Auckland Training Coll. and Auckland Univ., and London Univ. Inst. of Educ.; Teacher 1935-42; Mil. Service 1942-46; Asst. Master, Queen Victoria School, 1949, 1951-59; Educ. Officer 1960-62; Asst. Dir. of Educ., Fiji 1963-66, Deputy Dir. 1966-70; Perm. Rep. to UN 1970-76; Vice-Pres. of 28th Session of UN Gen. Assembly 1973; High Commr. to Canada 1971-76; Amb. to U.S.A. 1971-76; Minister of Educ. Sept. 1977-; mem. Fiji Broadcasting Comm. 1955-62, 1966-70; mem. Fiji Legislative Council 1956-66; mem. Fijian Affairs Board 1955-66, 1969-70, Fijian Devt. Fund Board 1956-66, Native Land Trust Board 1965-70; mem. Advisory Council on Educ. 1954-70; mem. Council of Chiefs 1952-70; mem. many other govt. and civic bodies. *Leisure interests:* reading and walking. *Address:* Ministry of Education, Selbourne Street, Suva (Office); P.O. Box 2311, Suva (Home). Telephone 381566 (Home).

SIKORSKI, Kazimierz; Polish composer and teacher; b. 28 June 1895, Zürich, Switzerland; widower; one s. one d.; ed. Warsaw Conservatoire and Paris and Warsaw Univs.; fmr. Prof. of composition in Łódź, Poznań and Warsaw; Rector, State Higher School of Music, Warsaw 1957-66; Pres. Union of Polish Composers 1954-59, Frederic Chopin Soc.; Dr. h.c. (State Higher School of Music, Warsaw) 1975; State Music Prize 1937, State Prize 1951, Union of Polish Composers Prize 1951, Minister of Culture and Art Prize 1955; City of Warsaw Prize 1960; numerous decorations including Commdr. Cross Order of Polonia Restituta. *Compositions include:* four symphonies, seven concertos for wind instruments and orchestra, three string quartets, string sextet, Stabat Mater, concerto for trombone, symphonic poems, works for choir, film music, etc.; Ed. of Polish music from 17th and 18th centuries, and orchestration of Moniuszko operas, Straszny dwór and Halka. *Publications:* Handbooks: Harmony (3 vols.), Counterpoint (3 vols.), Musical Instruments, Dzieła wszystkie (Complete Works of Chopin) (Co-editor). *Address:* Ul Jaszowiecka 6, 02-934 Warsaw, Poland.

SIKRI, Hon. Sarv Mittra; Indian judge; b. 26 April 1908, Lahore (Pakistan); s. of late Dr. Nihal Chand; m. Leila Sikri; one s.; ed. Trinity Hall, Cambridge and Lincoln's Inn, London; started practice, Lahore High Court 1930; Asst. Advocate Gen., Punjab 1949, Advocate-Gen. 1951-64; Judge, Supreme Court of India 1964-71; Chief Justice of India Jan. 1971-April 1973; Pres. Indian Law Inst. 1971-73, Indian Branch, Int. Law Assen.; Hon. Pres. Indian Soc. of Int. Law; mem. Indian Comm. of Jurists; Hon. mem. Acad. of Political Sciences, New York; Chair. Sir. Ganga Ram Hospital Trust; del. to various int. confs. *Leisure interests:* golf, tennis, bridge. *Address:* B-18 Maharani Bagh, New Delhi, India.

SILBERMAN, Laurence Hirsch, LL.B.; American lawyer and diplomatist; b. 12 Oct. 1935, York, Pa.; s. of William and Anna Hirsch; m. Rosalie Gaull 1957; one s. two d.; ed. Dartmouth Coll., Harvard Law School; with Moore, Torkildson & Rice, Quinn & Moore, law firm 1961-64; Partner Moore, Silberman & Schulze 1964-67; Lawyer Nat. Labor Relations Board 1967-69; Solicitor, Labor Dept. 1969-70, Under-Sec. for Labor Affairs 1970-73; Partner Steptoe & Johnson 1973-74; Deputy Attorney-Gen., Dept. of Justice 1974-75; Amb. to Yugoslavia 1975-77 (withdrawn). *Address:* c/o Department of State, Washington, D.C. 20301, U.S.A.

SILES ZUAZO, Hernán, D.IUR.; Bolivian lawyer, politician and diplomatist; b. 1914; ed. Univ. de San Andres; Sergeant in Chaco War 1932; legal practice in La Paz 1939-, M.P. for La Paz 1943-46; in exile in Argentina and Chile, where he worked as translator for U.S. news agencies 1946-51; Vice-Presidential cand. 1951; a leader of the revolution of 1952; Vice-Pres. of Bolivia 1952-56, Pres. 1956-60; Amb. to Uruguay 1960-63, to Spain 1963-64; in exile 1964-78; Pres. Movimento Nacionalista Revolucionario-Izquierdo (MNR-1) 1978. *Address:* c/o Movimento Nacionalista Revolucionario-Izquierdo, La Paz, Bolivia.

SILJA, Anja; German opera singer; b. 17 April 1940, Berlin; one s. two d.; appearances in Salome, Lulu, Fidelio, as Senta (The Flying Dutchman), Marie (Wozzeck), Hana Glawari (The Merry Widow), Elisabeth (Tannhäuser), Carmen, Tosca, Katja Kabanová, Die Frau (Erwartung), Elena (The Makropoulos Case), Minnie (The Girl of the Golden West), Luise (Kabale und Liebe), Jenny (Rise and Fall of the City of Mahagonny), Kate (Kiss me Kate); guest appearances in Vienna, New York, San Francisco, Chicago, Salzburg Festivals, Stuttgart, Cologne, Budapest, Brussels, London, Tokyo, Geneva, Paris, Rome, Barcelona, Copenhagen, Hamburg, Frankfurt. *Address:* Hamburgische Staatsoper, Gr. Teaterstrasse 34, 2 Hamburg 35, Germany. *Telephone:* 35-11-51.

SILKIN, Rt. Hon. John Ernest, P.C., M.P., M.A., LL.B.; British politician and solicitor; b. 18 March 1923, London; s. of late Lewis Silkin, C.H., P.C., 1st Baron Silkin, and Rosa Neft Silkin; brother of Samuel Charles Silkin (*q.v.*); m. Rosamund Jones 1950; one s.; ed. Dulwich Coll., Univ. of Wales, and Trinity Hall, Cambridge; Mem. of Parl. for Deptford 1963-74, for Lewisham, Deptford 1974-; Asst. Govt. Chief Whip 1964-66; Treas. of the Household April-July 1966; Govt. Chief Whip 1966-69; Minister of Public Building and Works 1969-70; Minister for Planning and Local Govt. 1974-76; Minister of Agric., Fisheries and Food 1976-79, Opposition Spokesman for Industry June 1979-; Dir. Pergamon Press 1971-74; Labour. *Leisure interests:* chess, golf, history, theatre. *Address:* 29 Tufton Street, London, S.W.1, England. *Telephone:* 01-222 3341.

SILKIN, Jon, B.A.; British writer and editor; b. 2 Dec. 1930, London; s. of Joseph Silkin and Doris Silkin (née Rubenstein); m. Lorna Tracy 1974; three s.; ed. Wycliffe and Dulwich Colls., Leeds Univ.; journalist 1947; nat. service as teacher in Educ. Corps 1948-49; worked as manual labourer 1949-55; taught English to foreign students 1955-57; Gregory Fellowship in Poetry (non-academic fellowship given to a practising poet), Univ. of Leeds 1958-60, graduated 1962, research 1962-65; Editor Stand magazine, Newcastle upon Tyne 1952; visited U.S.A., giving poetry reading tours; Visiting Lecturer, Denison Univ., Ohio; taught at Writers' Workshop, Univ. of Ia. 1968-69; Visiting Writer, Australian Arts Council and Univ. of Sydney 1974, Coll. of Idaho 1978; C. Day Lewis Fellowship 1976-77; Geoffrey Faber Memorial Prize for Nature with Man 1966. *Publications:* The Peaceable Kingdom 1954 (reissued 1976), The Two Freedoms 1958, The Re-ordering of the Stones 1961, Nature With Man 1965, Penguin Modern Poets 7 (with Richard Murphy and Nathaniel Tarn) 1965, Poems New and Selected 1966, Killhope Wheel 1970, Amana Grass 1971, Out of Battle (criticism) 1972, Poetry of the Committed Individual (Co-editor) 1973, The Principle of Water 1974, The Little Time-Keeper 1976, Penguin Book of First World War Poetry (Ed.) 1979. *Leisure interest:* travelling. *Address:* 19 Haldane Terrace, Newcastle upon Tyne, NE2 3AN, England. *Telephone:* Newcastle 812614.

SILKIN, Rt. Hon. Samuel Charles, B.A., Q.C.; British barrister-at-law and politician; b. 6 March 1918, Neath, Glam.; s. of late Lewis Silkin, C.H., P.C., 1st Baron Silkin, and Rosa (née Neft) Silkin; brother of John Ernest Silkin (*q.v.*); m. Elaine Violet Stamp 1941; two s. two d.; ed. Dulwich Coll., Trinity Hall, Cambridge; called to the Bar, Middle Temple 1941; served World War II 1939-45, Lieut.-Col. (mentioned in despatches); mem. Parl. for Camberwell, Dulwich 1964-74, for Southwark, Dulwich 1974-; Queen's Counsel 1963; mem. Royal Comm. on Penal System for England and Wales 1965-66; Chair. Parl. Labour Party Group on EEC and European Affairs 1966-70; Recorder of Bedford 1966-71; Leader Del. to Assembly, Council of Europe 1968-70; Chair. British Inst. of Human Rights 1972-74; Opposition Spokesman on Law Officer Matters 1970-74; Attorney-Gen. 1974-79; Gov. Maudsley and Royal Bethlehem Hospitals 1970-74; Pres. Alcohol Educ. Council 1973-; mem. Soc. of Labour Lawyers 1964-71, Vice-Pres. 1971; Hon. mem. American Bar Assn. 1976; Bencher, Middle Temple 1969. *Address:* House of Commons, Westminster, London, S.W.1, England.

SILLARD, Yves; French aerospace engineer; b. 5 Jan. 1936, Coutances, Monche; s. of Roger and Madeleine (Guerrand) Sillard; m. Annick Legrand 1966; ed. Ecole Massillon, Ecole Polytechnique, Ecole nat. Supérieure de l'Aéronautique; Test. Eng. and then Head of Colomb-Béchard unit of Centre d'Essais en Vol 1960-62, Tech. Dir. of Cazeaux annex 1963-64; Head of Concorde Programme at Secrétariat général à l'Aviation civile 1965; Head of Div. setting up the Guyana Space Centre 1966-68; Tech. Dir. and then Dir. Guyana Space Centre 1968-72; Dir. of Launchers, Centre Nat. d'Etudes Spatiales 1973-76, Dir.-Gen. 1976-; Chevalier Légion d'honneur, Chevalier, Ordre nat. du Mérite, Médaille de l'Aéronautique. *Address:* Centre Nationale des Etudes Spatiales, 129 rue de l'Université, 75007 Paris (Office); 65 rue de Milly, 91820 Boutigny sur Essonne, France (Home). *Telephone:* 555 91 21 (Office).

SILLITOE, Alan; British author; b. 4 March 1928, Nottingham; s. of Christopher Archibald Sillitoe and Sylvina Burton; m. Ruth Esther Fainlight 1959; one s. one d. (adopted); ed. elementary school, Radford, Nottingham; worked in various factories, Nottingham 1942-46; served wireless operator, R.A.F., Malaya 1946-49; lived six years in France and Spain; editorial adviser W. H. Allen Co. Ltd.; Fellow, Royal Geographical Soc.; Hon. Fellow, Manchester Polytechnic; Hawthornden Prize 1960. *Publications:* (novels) Saturday Night and Sunday Morning 1958, The General 1960, Key to the Door 1961, The Death of William Posters 1965, A Tree on Fire 1967, A Start in Life 1970, Travels in Nihilon 1971, Raw Materials 1972, The Flame of Life 1974, The Widower's Son 1976; (stories) The Loneliness of the Long Distance Runner 1959, The Ragman's Daughter 1963, Guzman, Go Home 1968, Men, Women and Children 1973; (essays) Mountains and Caverns 1975; (poems) The Rats and Other Poems 1960, A Falling Out of Love 1964, Love in the Environs of Voronezh 1968, Barbarians and Other Poems 1974, Storm and Other Poems 1974; (travel) Road to Volgograd 1964, All Citizens are Soldiers 1969 (trans. of Lope de Vega play Fuenteovejuna, with Ruth Fainlight); (plays) Three Plays 1978; (children's books) The City Adventures of Marmalade Jim 1967, Big John and the Stars 1977, The Incredible Fencing Fleas 1978. *Leisure interests:* geography, navigation, travel. *Address:* c/o W. H. Allen & Co. Ltd., 44 Hill Street, London, W1X 8LB, England.

SILLS, Beverly; American coloratura soprano; b. (as Belle Silverstein) 25 May 1929, Brooklyn, N.Y.; m. Peter Bulkeley Greenough 1956; five c.; ed. pupil of Estelle Liebling; debut at San Francisco Opera as Helen of Troy in Mefistofele 1953, at New York City Opera as Rosalinda in Die Fledermaus 1955; with New York City Opera 1955-, Dir. July 1979-; debut at the Vienna State Opera as Queen of the Night (Die Zauberflöte) 1967, at La Scala, Milan in The Siege of Corinth 1969, at Royal Opera House, Covent Garden in title role of Lucia di Lammermoor 1970, Metropolitan Opera, New York as Pamira in Siege of Corinth 1975; other best known roles include Cleopatra (Julius Caesar), Queen Elizabeth I (Roberto Devereux), all three heroines in The Tales of Hoffmann, Manon (Manon), Violetta (La Traviata), Marie (Daughter of the Regiment), Rosina (Barber of Seville); title roles in Anna Bolena and Maria Stuarda, Norma, Lucrezia Borgia; recordings for Columbia, RCA, Angel, ABC—Audio Treasure; has appeared at most of the major opera houses of Europe and Latin America and given numerous recitals with leading orchestras throughout U.S.A. (to retire in 1980 and become Co.-Dir. of New York City Opera). *Address:* c/o Ludwig Lustig Management, 111 West 57th Street, New York, N.Y. 10019, U.S.A.

SILVA HENRÍQUEZ, H.E. Cardinal Raúl; Chilean ecclesiastic; b. 3 July 1907; ed. Universidad Católica de Chile and Ateneo Salesiano, Turin; fmr. Prof. Canon and Moral Law, Salesian Study Centre, La Cisterna and Pres. Fed. of Catholic Colls., Chile; Pres. Caritas, Chile, Caritas Internacional and organizer of other social welfare projects; Diocesan Bishop, Valparaíso 1959-61; Archbishop of Santiago 1961-; cr. Cardinal 1962; Chancellor, Universidad Católica de Chile; Hon. LL.D. (Univ. of Notre Dame). *Publications:* La Misión Social del Cristianismo: Conflicto de Clases o Solidaridad Cristiana. *Address:* Palacio Arzobispal, Casilla 30-D, Santiago, Chile.

SILVA V., Rodolfo, M.A.; Costa Rican diplomatist; b. 13 Sept. 1932, San José; s. of Enrique Silva and Mariana Vargas; m. Margaret Nealey 1959; one s.; ed. Univ. de Costa Rica, Univ. of North Carolina, U.S.A.; Urban Planner, Nat. Inst. of Housing and Urban Planning 1958-62; Dir. of Co-ordination and Nat. Planning, Office of the Pres. 1963-66; Exec. Vice-Pres. Cen. American Bank for Econ. Integration, Honduras 1966-71; Minister of Public Works and Transportation 1971-74; Amb. to U.S.A. (also accred. to Canada) and OAS 1974-78; Dir. Professional Coll. of Eng. 1960; Dir. Interamerican Planning Soc. 1973-74. *Publications:* Water Consumption Related to Land Use in Urban Areas 1958, Traffic Studies in San José 1960, National Development Plans for Costa Rica 1965, The Central American Integration 1968, Multinational Planning of Physical Infrastructure 1974. *Leisure interests:* tennis, chess, stamps, travel. *Address:* Apertado 1188, San José, Costa Rica. *Telephone:* 21-31-95.

SILVER, Robert Simpson, C.B.E., M.A., B.SC., PH.D., D.SC.; British mechanical engineer; b. 13 March 1913, Montrose, Scotland; s. of Alexander Clark Silver and Isabella Simpson; m. Jean MacIntyre Bruce 1937; two s.; ed. Montrose Acad. and Glasgow Univ.; Research Physicist, I.C.I. Ltd. 1936-39; Head of Research Dept., G. & J. Weir Ltd. 1939-46; Asst. Dir. of Research, Gas Research Board 1946-48; Dir. of Research, Federated Foundries Ltd. 1948-54; Chief Designer, John Brown Land Boilers Ltd. 1954-56; Technical Dir. G. & J. Weir Ltd. 1956-62; Prof. of Mechanical Eng., Heriot-Watt Univ., Edinburgh 1962-66; James Watt Prof. of Mechanical Eng., Univ. of Glasgow Jan. 1967-; Inst. of Mechanical Engineers Prizes: George Stephenson Prize 1945, Thomas Lowe Gray Prize 1964, James Clayton Prize 1965; Memorial Award, American Soc. of Mechanical Engineers 1963; UNESCO Science Prize 1968. *Publications:* An Introduction to Thermodynamics 1971; many papers on thermodynamics and mechanical engineering of power and process plant with particular reference to desalination in later work. *Leisure interest:* fly fishing. *Address:* Department of Mechanical Engineering, University of Glasgow, Glasgow, G12 8QQ (Office); 14 Beech Avenue, Glasgow, S.1, Scotland (Home). *Telephone:* 041-339-8855, Ext. 302 (Office); 041-427-1322 (Home).

SILVERSTEIN, Abe; American aeronautical engineer; b. 15 Sept. 1908; ed. Rose Polytechnic Inst.; Junior Engineer, Langley Laboratory, Nat. Advisory Cttee. for Aeronautics (now Nat. Aeronautics and Space Admin., NASA) 1929-, successively Head Full-Scale Wind Tunnel, Chief Engine Installation Div., Chief Wind Tunnel and Flight Div., Chief of Research; Assoc. Dir., Lewis Flight Propulsion Lab. 1940-58; Dir. of Space Flight Programs NASA 1958-61; Dir. Lewis Research Center 1961-69; involved in Environmental Planning, Repub. Steel Corpn. 1970-77; mem. Rolls Royce Research Body 1977-, Int. Acad. of Astronautics, Nat. Acad. of Eng.; Fellow, American Inst. of Astronautics, American Astronautical Soc., Royal Aeronautical Soc.; numerous awards; five hon. degrees, Distinguished Service Medal (NASA) 1968; author of some fifty scientific papers. *Address:* 21160 Seabury Avenue, Fairview Park, Ohio 44126; and Republic Building, Cleveland, Ohio 44135, U.S.A.

SIMÃO, José Veiga, PH.D.; Portuguese physicist and politician; b. 13 Feb. 1929, Guarda; ed. Universidade de Coimbra and Univ. of Cambridge, England; with Dept. of Nuclear Physics, Cavendish Lab., Univ. of Cambridge 1953-57; Prof. of Physics, Univ. de Coimbra 1959-62; Rector, Univ. of Mozambique 1962-70; Minister of Educ. 1970-74; Perm. Rep. to UN 1974-75. *Address:* c/o Ministério dos Assuntos Exteriores, Lisbon, Portugal.

SIMATUPANG, Lieut.-Gen. Tahi Bonar; Indonesian international church official and retd. army officer; b. 28 Jan. 1920, Sidikalang; s. of late Simon Mangaraja Soaduon and of Mina Boru Sibuea; m. Sumarti Budiardjo 1949; two s. one d.; ed. Mil. Acad.; Dir. of Org., Gen. Staff of Indonesian Nat. Army 1945-48; Deputy Chief of Staff, Armed Forces of Repub. of Indonesia 1948-49, Acting Chief of Staff 1949-51, Chief of Staff 1951-54; Mil. Adviser to Govt. of Indonesia 1954-59; retd. from mil. service 1959; Pres. Council of Churches in Indonesia 1967-, Christian Conf. in Asia 1973-77, World Council of Churches 1975-; mem. Supreme Advisory Council, Republic of Indonesia 1973-; D.Hum.Litt. (Tulsa) 1969. *Publications:* Pioneer in War, Pioneer in Peace (Role of the Armed Forces in Indonesia) 1954, Report from Banaran—Experiences during the

People's War 1959, Christian Task in Revolution 1966. *Leisure interest:* reading. *Address:* Jalan Diponegoro 1955, Jakarta, Indonesia. *Telephone:* 348234.

SIMBA, Iddi, B.SC., C.E.R.; Tanzanian banking official; b. 8 Oct. 1935, Usumbura; m. Mrs. Khadija Simba; one s. two d.; ed. Panjab Univ., Pakistan, and Univ. of Toulouse, France; Agricultural Field Officer, Ministry of Agric. 1961-62; Asst. Dir. of Planning, Ministry of Econ. Affairs and Planning; Alt. Exec. Dir. IBRD 1966-68; Chair. and Dir.-Gen. E. African Devt. Bank 1968-77; Fellow Int. Bankers' Assn., and Econ. Devt. Inst. (IBRD). *Publications:* Planning of a typical peasant farm to meet complete dietary and cash needs of a five-member peasant family 1962, The use of a national centre for the collection of Agricultural Statistics in the planning of peasant agriculture in Tanzania 1964. *Leisure interests:* music, light reading. *Address:* Ministry of Foreign Affairs, Dar es Salaam, Tanzania.

SIMBANANIYE, Artémon; Burundi diplomatist and government official; b. 1935, Rubonwa, Bururi Province; ed. Univ. of Louvain, Belgium and Law Faculty of Paris Univ.; Gen. Counsellor in Ministry of Justice, Information, Public Safety and Immigration 1965, concurrently Tech. Adviser to Supreme Court and Court of Appeals 1965; Sec. of State (Minister) of Justice 1965-66; Minister of Justice, Public Safety and Immigration, concurrently State Prosecutor 1966-67; Dir.-Gen. Ministry of Foreign Affairs and Co-operation 1969; Cabinet Minister Attached to the Office of the Pres., concurrently Minister for Planning 1969-71; Pres. Gov. Council, Bujumbura Univ. 1970-73; Minister for Foreign Affairs, Co-operation and Planning 1971-72; Amb. without Portfolio May-July 1972; Minister for Foreign Affairs, Co-operation and Planning 1972-74; Minister for Nat. Educ. and Culture 1974-76; Perm. Rep. to UN Jan. 1977-; Pres. UNDP 1978; mem. Del. to Gen. Assembly 1969, leader of Del. 1971-74. *Address:* Permanent Mission of Burundi to the United Nations, 201 East 42nd Street, New York, N.Y. 10017, U.S.A.

SIMENON, Georges; Belgian novelist; b. 13 Feb. 1903, Liège; s. of Désiré and Henriette (née Brull) Simenon; m. Denise Ouimet 1950; three s. one d.; ed. Coll. St. Servais, Liège; Mem. Acad. Royale de Langue et de Littérature Française, Brussels; abandoned novel writing 1973 to write daily journal and Letter to my Mother. *Publications:* 212 novels, including 80 in the Maigret series, and seven vols. of daily notations; books translated into 47 languages and published in 32 countries. *Address:* 12 avenue des Figuiers, 1007 Lausanne, Switzerland. *Telephone:* Lausanne 33-39-79 (Office).

SIMKIN, William E.; American labor arbitrator and mediator; b. 13 Jan. 1907, Merrifield, N.Y.; s. of Alfred E. Simkin and Florence Manchester; m. Ruth Commons 1929; two s.; ed. Earlham Coll. and Univ. of Pennsylvania; Principal, Cen. High School, Sherwood 1928-30; Teacher Brooklyn Friends School 1930-32; Rep. in W. Virginia, American Friends Service Cttee. 1932-37; Instructor Wharton School of Finance and Commerce, Pennsylvania Univ. 1937-39; Labor Arbitrator 1939-61 and 1969-; Assoc. Impartial Chair. Philadelphia Men's Clothing Industry 1940-61, Philadelphia Dress Industry 1947-61; Arbitrator, American Viscose Corpn. 1947-61, Sun Shipbuilding Co. 1945-49, and for many other firms; Pres. Nat. Acad. of Arbitrators 1950; Dir. Fed. Mediation and Conciliation Service 1961-69; Chair. Basic Steel Industry Incentive Study Group 1969-70; Chair. Labor Relations Panel, Fed. Reserve System 1970-; Chair. Foreign Service Grievance Board 1971-76; Lecturer and Fellow, Harvard Univ. 1969-73. *Leisure interests:* woodwork, golf. *Address:* 5210 N. Nina Drive, Tucson, Arizona 85704, U.S.A. *Telephone:* (602) 888-4091.

SIMMS, Most Rev. George Otto, PH.D., D.D.; Irish ecclesiastic; b. 4 July 1910, Dublin; s. of John Francis Arthur and Ottilie Simms; m. Mercy Felicia 1941; three s. two d.; ed. Cheltenham Coll. and Trinity Coll., Dublin; ordained Deacon 1935, Priest 1936; Curate-Asst., St. Bartholomew's, Dublin 1935-38; Chaplain, Lincoln Theological Coll. 1938-39; Dean of Residence, Trinity Coll., Dublin 1939-52; Chaplain, Church of Ireland Training Coll. 1943-52; Dean of Cork 1952; Bishop of Cork 1952-56; Archbishop of Dublin, Bishop of Glendalough and Kildare, Primate of Ireland 1956-69; Archbishop of Armagh and Primate of all Ireland 1969-; Pres. The Leprosy Mission 1964-; Chair. Irish Council of Churches 1972-74; Co-Chair. Anglican-Roman Catholic Int. Comm. on the Theology of Marriage 1968-75; mem. Royal Irish Acad. 1957; Hon. D.C.L. (Kent) 1978; Hon. Fellow Trinity Coll., Dublin 1978. *Publications:* Joint Ed. Facsimile Edition of the Book of Kells 1951, Facsimile Edition of the Book of Durrow 1960; For Better, For Worse 1945, The Book of Kells: a short description 1950, The Bible in Perspective 1953, Memoir of Michael Lloyd Ferrar 1962, Christ within Me 1975. *Address:* The See House, Cathedral Close, Armagh, BT60 7ES, Ireland. *Telephone:* Armagh 522851.

SIMON, Claude; French writer; b. 10 Oct. 1913, Tananarive, Madagascar; ed. Collège Stanislas, Paris; Prix de l'Express for La Route des Flandres 1960; Prix Médicis for Histoire 1967. *Publications:* Le Tricheur 1945, La Corde Raide 1947, Le Vent 1957, L'Herbe 1958, La Route des Flandres 1960, La Palace 1962, Histoire 1967, La Bataille de Pharsale 1969, Orion Aveugle 1970, Les Corps Conducteurs 1971, Triptyque 1973, Leçon de choses 1975. *Address:* Editions de Minuit, 7 rue Bernard-Palissy, 75006 Paris; 3 place Monge, 75005 Paris; place Vieille, Salses, 66600 Rivesaltes, France.

SIMON, Herbert A., PH.D.; American social scientist and professor; b. 15 June 1916, Milwaukee, Wis.; s. of Arthur Simon and Edna Merkel Simon; m. Dorothea Pye 1937; one s. two d.; ed. Univ. of Chicago; Research Asst., Univ. of Chicago 1936-38; Staff mem. Int. City Managers' Assn. 1938-39; Div. of Admin. Measurement Studies, Bureau of Public Admin. Univ. of Calif. at Berkeley 1939-42; Asst. Prof., later Prof., Ill. Inst. of Tech. 1942-49, Chair. of Dept. 1946-49; Prof. of Admin., Carnegie-Mellon Univ. 1949-65, Richard King Mellon Prof. of Computer Sciences and Psychology 1965-; Chair. Board of Dirs. Social Science Research Council 1961-66, Div. of Behavioral Sciences of Nat. Research Council 1968-70; Ford Lecturer, New York Univ. 1960, Vanuxem Lecturer, Princeton Univ. 1961, William James Lecturer, Harvard Univ. 1963, Harris Lecturer, Northwestern Univ. 1967, Compton Lecturer, Mass. Inst. of Tech. 1968, Katz-Newcomb Lecturer, Univ. of Michigan 1976, Hovland Lecturer, Yale Univ. 1976; mem. President's Science Advisory Cttee. 1968-72, Nat. Acad. of Sciences, American Philosophical Soc., Board of Trustees, Carnegie-Mellon Univ. 1972-; Distinguished Fellow, American Econ. Assn. 1976; Distinguished Scientific Contributions Award, American Psychological Assn. 1969; A. M. Turing Award, Assn. for Computing Machinery 1975; Nobel Prize for Econs. 1978; Hon. D.Sc. (Yale Univ., Case Inst. of Tech.), Hon. LL.D. (Univ. of Chicago, McGill Univ.), Hon. Fil.D. (Lund Univ.), Hon. Dr. Econ.Sc. (Erasmus Univ., Univ. of Mich.). *Publications:* Administrative Behavior 1947, 1957, 1976, Public Administration 1950, Models of Man 1957, Organizations 1958, The Shape of Automation 1960, 1965, The Sciences of the Artificial 1969, Human Problem-Solving 1972, Models of Discovery 1977, Models of Thought 1979. *Leisure interests:* hiking, music. *Address:* Carnegie-Mellon University, 5000 Forbes Avenue, Pittsburgh, Pa. 15213, U.S.A. *Telephone:* (412) 621-2600.

SIMON, Josef; Czechoslovak economist and politician; b. 10 March 1921, Medlešice; Head of Dept., Regional Cttee. CP of Czechoslovakia 1948-50; Dir. nat. enterprise Tatra, Kopřivnice 1951-52; Head of Dept., Ministry of Eng. 1953-57; Dir. Skoda enterprise, V.I. Lenin Works, Pilsen 1958-62; Head of Dept., Ministry of Heavy Eng. 1962-66; Dir. AZNP Motor Car Works, Mladá Boleslav 1966-69; fmr. Minister of Industry, Czech S.R.; Deputy to Czech Nat. Council and Fed. Assembly 1969-71, to House of Nations, Fed. Assembly 1969-; mem. Cen. Cttee. of CP of Czechoslovakia 1971-; Minister of Metallurgy and Eng. 1971-73, of Metallurgy and Heavy Eng. 1973-74; Vice-Premier of Czechoslovakia 1974-; Chair. CMEA Standing Cttee. for Eng. 1974-, Czechoslovak section of Czechoslovak-Bulgarian Cttee. for Econ. and Scientific Tech. Co-operation Dec. 1974-, Inter-governmental Czechoslovak-Mongolian Comm. for Econ. and Scientific Tech. Co-operation Dec. 1974-, Czechoslovak section of Inter-governmental Comm. for Co-operation in the Construction of the Gas Pipeline Orenburg-Western Border of U.S.S.R. 1975-, Czechoslovak section of Mixed Czechoslovak-Romanian Governmental Comm. for Econ. and Scientific Tech. Co-operation 1976-; Order of Labour 1971, Order of Labour, Order of Friendship between Nations (U.S.S.R.) 1974, and other awards. *Address:* Federal Government, Prague, Czechoslovakia.

SIMON, Neil; American playwright; b. 4 July 1927; wrote for various television programmes 1956-60; author of plays: Come Blow Your Horn 1961, Little Me (musical) 1962, Barefoot in the Park 1963, The Odd Couple 1965, Sweet Charity (musical) 1966, The Star-Spangled Girl 1966, Plaza Suite 1968, Promises, Promises 1968, The Last of the Red Hot Lovers 1969, The Gingerbread Lady 1970, Charlie Bobby, The Good Doctor 1973, The Prisoner of Second Avenue, The Sunshine Boys 1973, God's Favorite 1974, California Suite; wrote screenplay for films The Heartbreak Kid 1973, The Prisoner of Second Avenue 1975, Murder By Death 1976, The Goodbye Girl 1978, The Cheap Detective 1978; mem. Dramatists Guild; Emmy Award 1956; Antoinette Perry (Tony) Award Best Playwright 1965. *Address:* 225 East 57th Street, New York, N.Y. 10022, U.S.A.

SIMON, Pál, D.SC.; Hungarian engineer and politician; b. 1929, Miscolc; ed. Budapest Technical Coll.; joined Hungarian Commu-

nist Party 1947; Mil. Engineer, Ministry of Defence 1952-55; worked in Moscow Inst. for Light Chem. 1955-59; Deputy Dir. Hungarian Petroleum and Natural Gas Research Inst. 1959-62; Dir. Danube Oil Refinery 1962-73; Dir.-Gen. Nat. Petroleum and Gas Industry Trust 1973; Deputy Minister of Heavy Industry, Minister July 1975-; mem. CMEA Perm. Cttee. for Petroleum and Gas Industry 1965; mem. Budapest Cttee. Hungarian Socialist Workers' Party 1975-; Titular Lecturer, Veszprém Univ. of Chemical Eng.; Gold Award, Labour Order of Merit. *Address:* Ministry of Heavy Industry, 1055 Budapest, Markó-utca 16, Hungary. *Telephone:* 324-934.

SIMON, William Edward; American financier and government official; b. 27 Nov. 1927, Patterson, N.J.; m. Carol Girard; two s. five d.; ed. Lafayette Coll., Easton, Pennsylvania; joined Union Securities, N.Y. 1952, Asst. Vice-Pres., Man. Municipal Trading Dept. 1955; Vice-Pres. Weedon & Co. 1957-64; joined Salomon Bros. 1964, later Partner; Deputy Sec. U.S. Treasury Dept. 1973-74, Head of Federal Energy Office 1973-74; Sec. of the Treasury 1974-77; Chair. Econ. Policy Board 1974-77; Chair. Council on Wage and Price Stability 1975-77; mem. Board of Govs., Exec. Cttee. Investment Bankers' Assn. of America until 1972; mem. Board of Dirs., Exec. Cttee. Securities Industry Assn. 1972, Chair. Public Finance Council; Founder, Past Pres. Assn. of Primary Dealers in U.S. Govt. Securities; Nat. Chair. Fund Raising, U.S. Olympic Cttee.; Chair. Debt Man. Cttee. of N.Y.; Trustee, Lafayette Coll., Mannes Coll. of Music, Newark Acad.; Jefferson Award 1976; now consultant in Wall Street. *Publication:* A Time for Truth 1978. *Address:* 711 Third Avenue, New York, N.Y. 10017, U.S.A. (Office).

SIMON OF GLAISDALE, Baron (Life Peer), cr. 1970; **Jocelyn Edward Salis Simon,** Kt., P.C.; British judge; b. 15 Jan. 1911, London; s. of Frank Cecil Simon and Claire Evelyn Simon, M.B.E.; m. Fay Elizabeth Leicester Pearson 1948; ed. Gresham's School, Holt and Trinity Hall, Cambridge; Mem. of Parl. (Conservative) 1951-62; Joint Parl. Under-Sec. of State, Home Office 1957-58; Financial Sec. to Treasury 1958-59; Solicitor-Gen. 1959-62; Pres. of Probate, Divorce and Admiralty Div. of High Court 1962-71; Lord of Appeal in Ordinary 1971-77; Hon. Fellow Trinity Hall, Cambridge 1963; Elder Brother Trinity House. *Publications:* Co-author of Change is our Ally 1954, Rule of Law 1955, The Church and the Law of Nullity 1955. *Address:* Midge Hall, Glaisdale Head, nr. Whitby, Yorkshire, England (Home).

SIMONET, Henri François, D. EN D., D. ÈS SC.; Belgian politician; b. 10 May 1931, Brussels; m. Marie-Louise Angenent 1960; one s. one d.; ed. Univ. Libre de Bruxelles and Columbia Univ., U.S.A.; Asst., Univ. Libre de Bruxelles 1956-58, now Prof.; Financial Adviser, Inst. National d'Etudes pour le Développement du Bas-Congo 1958-59; Legal Adviser, Comm. of Brussels Stock Exchange 1959-60; Deputy Dir. Office of Econ. Programming 1961; Dir. of Cabinet of Ministry of Econ. Affairs and Power 1961-65; Dir. of Cabinet of Deputy Prime Minister responsible for Co-ordination of Econ. Policy 1965; Mayor of Anderlecht 1966-; Deputy from Brussels 1966-73; Minister of Econ. Affairs Jan. 1972-73; mem., Vice-Pres. Comm. of the European Communities 1973-77; Minister of Foreign Affairs June 1977-; Sec. of State for Brussels Econ. Affairs 1977-79. *Publications:* various books and articles on economics, financial and political topics. *Address:* 1 place du Conseil, 1070 Brussels, Belgium.

SIMONETTA; Italian fashion designer; b. Duchess Colonna di Cesaro; d. of Duke Giovanni Colonna di Cesaro and Countess Barbara Antonelli; m. 1st Count Galeazzo Visconti di Modrone 1944, one d.; m. 2nd Alberto Fabiani (fashion designer) 1952, one s.; separated Feb. 1970 and has taken back her maiden name of Duchess Colonna di Cesaro; opened fashion Atelier, Rome 1946; transferred fashion business to Paris 1962; Philadelphia Fashion Group Award 1953, Davison Paxon Award, Atlanta 1959, Fashion Oscar from Filene's of Boston 1960; after five consecutive years in list of world's best dressed women is in "Hall of Fame"; Hon. citizen of Austin, New Orleans and Las Vegas. *Publication:* A Snob in the Kitchen 1967. *Address:* 40 rue François 1er, 75008 Paris, France (Office). *Telephone:* 359-5671 (Office).

SIMONNET, Maurice-René; French lawyer and politician; b. 4 Oct. 1919, Lyons; m. Jeanne-Marie Montagne; eight c.; ed. Ecole des Sciences Politiques, Paris, Faculty of Law, Lyons; Deputy for Drôme 1946-62; Sec. of State for the Merchant Marine 1957-58; Sec.-Gen. Mouvement Républicain Populaire (MRP) 1955-62; Prof. of Int. Law, Univ. of Lyons; Officier Légion d'honneur, Croix de guerre (1939-45), Croix de Combattant Volontaire de la Résistance. *Address:* 2 rue de la Roche, 26290 Donzère, France. *Telephone:* (75) 98-61-30.

SIMONOV, Konstantin Mikhailovich (real name Kirill); Soviet journalist and writer; b. 28 Nov. 1915, Tver (now Kalinin); ed. M. Gorky Literary Inst., Moscow; war corresp. for Red Star and Pravda 1938; mem. CPSU 1942-; Deputy to Supreme Soviet 1946-54; Ed. Literaturnaya gazeta (Literary Gazette) 1950-53; Ed. Novy Mir (New World) 1946-50, 1954-58; mem. Sec. Union of Soviet Writers 1946-59, 1967-; six State Prizes, Order of Lenin (three times), Red Banner of Labour, Badge of Honour, Hero of Socialist Labour 1974, and other decorations. *Publications include:* poems: Real Men 1938, Ice Blood Battle 1938, Pavel Cherny 1938, A Son of an Artilleryman 1942, Poems 1936-42 1942, Friends and Enemies 1948, Selected Poems 1960, 1964, Three Note Books 1964, Thirty-Six to Seventy-one 1972; plays: A Story of Love 1940, Fellow from Our Town 1942, The Russians 1942, Under the Chestnut Trees 1945, Russian Question 1946, Alien Shadow 1949, The Fourth 1962; novels: Days and Nights 1944, Collected Works (3 vols.) 1953, Comrades in Arms 1953, Those Alive and Those Dead 1959, Over there, where were once . . . 1964, Soldiers are not Born 1964, From Lopatin's Notes 1965, Collected Works 1966; Conversations with Comrades (memoirs) 1970; Notes of a Young Man 1970, The Last Summer 1971, In the Direction of Murmansk 1972, The Living and the Dead 1972, Twenty Days without War 1973, About Anatoly Merzlov 1973, From Khalkhingol to Berlin 1973, Not Long before Silence—Notes of 1945 1974, And the Soldier Marched (scenario) 1975, War Days 1976. *Address:* c/o U.S.S.R. Union of Writers, Ulitsa Vorovskogo 52, Moscow, U.S.S.R.

SIMONOV, Yevgeniy Rubenovich; Soviet theatrical producer; b. 21 June 1925; ed. Maly Theatre School; Art Dir. worker theatre club Kauchuk 1948-54; Producer, E. Vakhtangov Theatre 1955-62, Chief Stage Dir. 1968-; Chief Stage Dir. Maly Theatre 1962-68; Teacher B. Schukin Theatre School 1954-; Honoured Artist of the R.S.F.S.R.; People's Artist of the U.S.S.R. 1975; Order of Red Banner, and other decorations. *Main productions:* Maly Theatre: Two Gentlemen of Verona (Shakespeare) 1952, Filumena Marturano (De Filippo) 1956, Town at Daybreak (Arbuzov) 1957, Irkutsk Story (Arbuzov) 1959, Little Tragedies (Pushkin) 1959; E. Vakhtangov Theatre: Misfortune from Intellect (Griboedov) 1963, They are Waiting for Us Somewhere (Arbuzov) 1963, Clever Things (Marshak) 1965, Antony and Cleopatra (Shakespeare) 1971, Veitslera and Misharina 1974, Front (Korneichuk) 1975. *Publications:* Plays: Aleksei Berezhnoi 1962, John Reed 1967. *Address:* E. Vakhtangov Theatre, 26 Arbat, Moscow, U.S.S.R.

SIMONOV, Yuriy Ivanovich; Soviet conductor; b. 4 March 1941, Saratov; ed. Leningrad Conservatoire; Conductor, Kislovodsk Philharmonic Soc. 1967-69; Conductor, State Bolshoi Opera and Ballet Theatre, Moscow 1969-70, Chief Conductor 1970-; in Bolshoi Theatre conducts: The Marriage of Figaro, Aida, Boris Godunov, Prince Igor, Pskovityanka; has toured solo and with Theatre in France, Italy and German Democratic Repub.; Laureate of 2nd U.S.S.R. Competition of Conductors, Moscow 1966; First Prize, 5th Int. Competition of Conductors, Santa Cecilia Acad., Rome 1968. *Address:* Bolshoi State Academic Theatre, 1 ploshchad Sverdlova, Moscow, U.S.S.R.

SIMONSEN, Mário Henrique; Brazilian engineer and economist; b. 19 Feb. 1935, Guanabara; s. of Mário Simonsen and Carmen Roxo Simonsen; m. Iluska Pereira da Cunha Simonsen; ed. Univ. do Brazil, Univ. do Rio de Janeiro; Lecturer Instituto de Matemática Pura e Aplicada 1958, Escola Nacional de Engenharia 1958-60; Dir. Crédito, Financiamento e Investimento S.A. 1962-63; Dir. Econs. Dept. Confederação Nacional da Indústria 1961-65; Dir. Post-Graduate School of Econs., Fundação Getúlio Vargas 1965-; mem. Board Banco Nacional de Habitação 1965-; mem. Board Mercedes Benz do Brasil 1968-; Vice-Pres. Banco Bozano, Simonsen de Investimentos 1969-; Pres. Fundação MOBRAL—Movimento Brasileiro de Alfabetização 1970-; Minister of Finance 1974-79, of Planning Jan. 1979-. *Publications:* Ensaios sobre Economia e Política Econômica 1961, Teoría Microeconômica 1967-69, Brasil 2001 1969, Brasil 2002 1972, and various essays and monographs. *Address:* Ministério das Finanças, Esplanada dos Ministérios, Brasília, D.F., Brazil.

SIMPSON, Alan, M.A., D.PHIL.; American (b. British) educator and administrator; b. 23 July 1912, Gateshead; s. of George and Isabella Graham Simpson; m. Mary M. McEldowney 1938; one s. two d.; ed. Dame Allan's School, Newcastle upon Tyne, Worcester Coll. and Merton Coll., Oxford, and Harvard Univ.; Senior Lecturer in Modern British History and American History, Univ. of St. Andrews, Scotland 1938-46; Lecturer in Constitutional Law, Univ. Coll., Dundee, Scotland 1938-46; Royal Artillery 1941-45; Asst. Prof. of History, Univ. of Chicago 1946-54, Assoc. Prof. 1954-59, Thomas E. Donnelley Prof. of History, and Dean of Coll., Univ. of Chicago 1959-64; Pres. of Vassar Coll. 1964-77; L.H.D. (Nat. Coll. of Educ., Evanston, Univ. of Rochester); LL.D. (Knox Coll.). *Publications:* The People Shall Judge: Readings in the Formation of American

Policy (2 vols.) (co-author) 1949, Puritanism in Old and New England 1955, The Wealth of the Gentry 1540-1660: East Anglian Studies 1961, Diary of King Philip's War (1675-76) by Colonel Benjamin Church (with Mary Simpson) 1975, I Too am Here: a Selection of Letters of Jane Welsh Carlyle 1976. *Leisure interest:* planting trees. *Address:* Yellow Gate Farm, Little Compton, R.I., U.S.A.

SIMPSON, George Gaylord, PH.D.; American biologist, geologist and palaeontologist; b. 16 June 1902, Chicago, Ill.; s. of Joseph Alexander and Helen Julia (Kinney) Simpson; m. 1st Lydia Pedroja 1923, 2nd Anne Roe 1938; four d.; ed. Colorado and Yale Univs.; Fellow, Nat. Research Council 1926-27; Asst. Curator American Museum of Natural History, New York 1927-28, Assoc. Curator 1929-42, Curator 1942-59, Chair. Geology and Palaeontology Depts. 1944-58; Prof. Columbia Univ. 1945-59; Alexander Agassiz Prof. of Vertebrate Palaeontology, Museum of Comparative Zoology, Harvard Univ. 1959-70; Geosciences Prof., Univ. of Ariz. 1967-; Trustee and Pres. Simroe Foundation, Tucson, Ariz. 1968-; mem. Nat. Acad. of Sciences; foreign mem. Royal Soc. (London); Hon. Sc.D. (Yale, Princeton, Oxford, Durham, Chicago, Kenyon, Cambridge, New Mexico, York (Canada), Colorado); Hon. LL.D. (Glasgow); Dr. h.c. (Paris and Univ. de la Plata); Lewis Prize 1942, Thompson Medal 1943 and Elliott Medal 1944, 1964, Gaudry Medal 1947, Penrose Medal 1952, André H. Dumont Medal 1953, Commemorative Medal 1958, Darwin Plaquette 1959, Linnean Soc. Gold Medal 1962, Royal Soc. Darwin Medal 1962, Nat. Medal of Science 1965, Verrill Medal (Yale Univ.) 1966, Distinguished Achievement Medal (American Museum) 1969, Wilbur Cross Medal 1969, Paleontological Soc. Medal 1973, etc. *Publications include:* American Mesozoic Mammalia 1929, Quantitative Zoology (with Anne Roe) 1939, Tempo and Mode in Evolution 1944, The Meaning of Evolution 1949, Life of the Past 1953, The Major Features of Evolution 1953, Evolution and Geography 1953, Life: An Introduction to Biology (with Beck) 1957, 1965, Behavior and Evolution (with Anne Roe) 1958, Principles of Animal Taxonomy 1961, This View of Life 1964, Biology and Man 1969, Penguins Past and Present, Here and There 1976, A Concession to the Improbable—an Unconventional Autobiography 1978. *Address:* 5151 E. Holmes Street, Tucson, Arizona 85711, U.S.A. *Telephone:* (602) 745-1345.

SIMPSON, Louis Aston Marantz, PH.D.; American writer and teacher; b. 27 March 1923, Jamaica; s. of Aston and Rosalind (Marantz) Simpson; m. Dorothy Roochvarg 1955; two s. one d.; ed. Munro Coll. Jamaica, Columbia Univ. New York; Assoc. Editor, Bobbs-Merrill Publishing Co., New York, N.Y. 1950-55; Instructor, Asst. Prof. Columbia Univ. 1955-59; Prof. Univ. of California at Berkeley 1959-67; Prof. State Univ. of New York at Stony Brook 1967-; Pulitzer Prize for poetry 1964; Columbia Univ. Medal for Excellence 1965; Hon. D.H.L. (Eastern Michigan Univ.) 1977. *Publications:* poetry: The Arrivistes: Poems 1940-49 1949, Good News of Death and other Poems 1955, A Dream of Governors 1959, At the End of the Open Road 1963, Selected Poems 1965, Adventures of the Letter I 1971, Searching for the Ox 1976; prose: James Hogg: a Critical Study 1962, Riverside Drive 1962, Introduction to Poetry 1967, North of Jamaica 1971, Three on the Tower: the Lives and Works of Ezra Pound, T. S. Eliot and William Carlos Williams 1975, A Revolution in Taste 1978. *Address:* P.O. Box 91, Port Jefferson, New York, N.Y. 11777, U.S.A. *Telephone:* (516) 751-2727.

SIMPSON, Norman Frederick; British playwright; b. 29 Jan. 1919, London; s. of George Frederick Simpson; m. Joyce Bartlett 1944; one d.; ed. Emanuel School, London, and Birkbeck Coll., Univ. of London; teacher in adult education until 1963; full-time playwright 1963-. *Publications:* plays: A Resounding Tinkle 1958, The Hole 1958, One Way Pendulum (also film) 1959, The Form 1961, The Cresta Run 1965, Some Tall Tinkles 1968; Co-Author Diamonds for Breakfast (film) 1968, Was He Anyone? 1973; novel: Harry Bleachbaker 1976. *Leisure interests:* reading, walking. *Address:* c/o Deborah Rogers Ltd., 5-11 Mortimer Street, London, W.1, England.

SIMPSON, Robert Wilfrid Levick, F.R.A.S.; British composer; b. 2 March 1921, Leamington, Warwickshire; s. of Robert Warren Simpson and Helena Hendrika Govaars; m. Bessie Fraser 1946; ed. Westminster City School, studied also with Herbert Howells (*q.v.*); Mem. of BBC Music Div. 1951-; D.Mus (Dunelm) 1952; mem. British Astronomical Assn.; Carl Nielsen Gold Medal (Denmark) 1956, Medal of Honour of Bruckner Soc. of America 1962; chief musical interest: Beethoven. *Main compositions:* Symphonies Nos. 1-7 1951, 1956, 1962, 1972, 1972, 1976, 1977; String Quartets Nos. 1-8 1952, 1953, 1954, 1973, 1974, 1975, 1977, 1979; Concerto for Violin 1959, for Piano 1967; Piano Sonata 1946; Variations and Finale on a Theme of Haydn, for piano 1948; Allegro Deciso, for string orchestra; Canzona for Brass 1958; Variations and Fugue for recorder and string quartet 1959; Trio for clarinet, cello and piano 1967; Quintet for clarinet and strings 1968; Quartet for horn, violin, cello and piano 1975-76; Media morte in vita sumus (Motet for choir, brass and timpani) 1975, Volcano (Symphonic Study for brass band) 1978; Incidental Music to Ibsen's The Pretenders 1965, to Milton's Samson Agonistes 1974; Energy (Symphonic Study for brass band) 1971. *Publications:* Carl Nielsen, Symphonist 1952, The Essence of Bruckner 1966, numerous articles in journals; BBC booklets: Bruckner and the Symphony, Sibelius and Nielsen, The Beethoven Symphonies; Contributor: Encyclopaedia Britannica, Musik in Geschichte und Gegenwart; Editor: The Symphony 1966. *Leisure interest:* astronomy. *Address:* Cedar Cottage, Chearsley, Aylesbury, Bucks., HP18 0DA, England. *Telephone:* Long Crendon 208436.

SIMS, Ivor D., B.SC.; American business executive; b. 1912, Coquimbo, Chile; m. Christine Buchman; one d.; ed. Lehigh Univ.; joined Bethlehem Steel Corpn. as junior buyer 1933; purchasing agent in associated Philadelphia, Bethlehem and New England Railroad Co. 1936-37, buyer Bethlehem Steel Corpn. 1940-44, Asst. purchasing agent 1944-50, purchasing agent 1950-57, Dir. and Asst. Vice-Pres. Purchasing Dept. 1957, Vice-Pres. (Admin.) 1963, Exec. Vice-Pres. 1966-73; retd. 1973; Dir. Int. Nickel Co. of Canada Ltd. 1969-73; mem. Office of Price Stabilization Ferro-Manganese Industry Advisory Cttee. 1951-53, Manganese Industry Advisory Cttee. 1955, Board of Trustees, Lehigh Univ. 1964, American Iron and Steel Inst., Newcomen Soc.; Dir. Nat. Assn. of Mfrs. 1969-73; Hon. LL.D. (Univ. of Liberia) 1967, (Lehigh) 1970; Knight Commdr. of the Liberian Humane Order of African Redemption 1965; Commdr. of Star of Equatorial Africa 1969; L-in-Life Award from Lehigh Club of N.Y. 1970. *Address:* 1723 Cloverleaf Street, Bethlehem, Pa. 18017, U.S.A.

SIMSON, Otto von, PH.D.; German scholar; b. 17 July 1912, Berlin; m. 1st Louise von Schönburg-Hartenstein 1936 (died 1976); two s.; m. 2nd M. A. zu Salm; ed. Arndt Gymnasium, Berlin, and Munich Univ.; Prof. of the History of Art, Chicago Univ. 1945-57; Perm. Del. of the Fed. Repub. of Germany to UNESCO 1959-; mem. Exec. Board UNESCO 1960-64; First Counsellor, Embassy of the Fed. Repub. of Germany, Paris 1959-64; Prof. Inst. History of Art, Freie Univ. Berlin; Foreign hon. mem. American Acad. of Arts and Sciences; Pres. German Nat. Comm. for UNESCO; Officier Légion d'honneur, Commdr. Ordre national du Mérite. *Publications:* Zur Genealogie der weltlichen Apotheose im Barock 1936, Sacred Fortress: Byzantine Art and Statecraft in Ravenna 1948, The Gothic Cathedral 1956, 1962, Die Kunst des Hohen Mittelalters 1972. *Address:* 1 Berlin 33, Max-Eyth-Strasse 26, Germany. *Telephone:* 8312082.

SIN, H.E. Cardinal Jaime L., B.SC.ED., D.D.; Philippine ecclesiastic; b. 31 Aug. 1928, New Washington, Aklan; s. of Juan Sin and Maxima Reyes Lachica de Sin; ed. New Washington Elementary School, St. Vincent Ferrer Seminary; ordained Roman Catholic Priest 1954; Missionary Priest 1954-57; First Rector, St. Pius X Seminary, Roxas City 1957-67; Domestic Prelate to Pope John XXIII 1960; Auxiliary Bishop of Jaro, Iloilo 1967; Archbishop of Jaro 1972, of Manila 1974-; cr. Cardinal 1976; Chair. Comm. on Seminaries and Priestly Vocations 1969-73, Comm. on Clergy 1974-77; mem. Pontifical Comm. on Social Communications 1975-; mem. Admin. Council, Catholic Bishops' Conf. of the Philippines (CBCP) 1968-72, Vice-Pres. CBCP 1970-74; Perm. mem. of the Synod of Bishops in Rome 1977-; mem. Pontifical Comm. on the Evangelization of Peoples 1978, Royal Acad. of Spanish Language 1978; Pres. Catholic Bishops' Conf. of the Philippines 1978; Hon. LL.D. 1975, Hon. D.H.L. 1975, Hon. LL.D. (Angeles Univ.) 1978; over 100 citations. *Publications:* Ratio Fundamentalis for Philippine Seminaries 1972, The Revolution of Love 1972, The Church Above Political Systems 1973, A Song of Salvation 1974, Unity in Diversity 1974, La Iglesia Renueva Sus Medios de Evangelicación y Adapta a la Idiosincracia de los Pueblos 1978, The Future of Catholicism in Asia 1978, Christian Basis of Human Rights 1978, Separation, Not Isolation 1978, Slaughter of the Innocents '79, 1979; over 200 papers, articles in periodicals. *Leisure interests:* music: Bach, Chopin, Wagner, Strauss; reading, writing. *Address:* Villa San Miguel, Shaw Boulevard, Mandaluyong, Rizal, Philippines. *Telephone:* 79-26-71.

SINATRA, Frank; American singer, actor and composer; b. 12 Dec. 1915, Hoboken, N.J.; m. 1st Nancy Barbato 1939 (divorced), one s. two d.; m. 2nd Ava Gardner (*q.v.*) 1951 (divorced); m. 3rd Mia Farrow (*q.v.*) 1966 (divorced 1968); m. 4th Barbara Marx 1976; ed. Drake Inst.; sang with Harry James and Tommy Dorsey Bands; film debut as singer 1941, as actor 1943; Jean Hersholt Humanitarian Award, Motion Picture Acad. 1971; Hon. citizen of Chicago

1975; Hon. D.Hum.Litt. (Nebraska) 1976; Cultural Award (Israel) 1977. *Films include:* Higher and Higher 1943, Step Lively 1944, Anchors Aweigh 1945, Take Me Out to the Ball Game 1948, On the Town 1949, Double Dynamite 1950, From Here to Eternity (Acad. Award for Best Supporting Actor) 1953, Young at Heart 1954, The Tender Trap 1955, Not as a Stranger 1955, The Man with the Golden Arm 1956, Johnny Concho 1956, The Pride and the Passion 1956, Around the World in Eighty Days 1956, Guys and Dolls 1956, High Society 1956, Pal Joey 1957, The Joker is Wild 1957, Kings Go Forth 1958, Some Came Running 1958, A Hole in the Head 1959, Can Can 1959, Never So Few 1959, Ocean's Eleven 1960, The Devil at Four O'Clock 1961, Sergeants Three 1962, The Manchurian Candidate 1962, Four for Texas 1963, The List of Adrian Messenger 1963, Come Blow Your Horn 1963, Robin and the Seven Hoods 1964, None But the Brave (also dir.) 1964, Von Ryan's Express 1965, Marriage on the Rocks 1965, Cast a Giant Shadow 1966, Assault on a Queen 1966, The Naked Runner 1967, Tony Rome 1967, The Detective 1968, Lady in Cement 1968, Dirty Dingus Magee 1970. *Address:* Sinatra Enterprises, Goldwyn Studios, 1041 N. Formosa, Los Angeles, Calif. 90046, U.S.A.

SINCLAIR, Ernest Keith, C.M.G., O.B.E., D.F.C.; Australian journalist; b. 13 Nov. 1914, Hawthorn, Victoria; s. of J. E. and F. Sinclair; m. Jill Nelder 1949; one s.; ed. Melbourne High School; served R.A.F., Second World War; C.O. 97 Pathfinder Sqdn. 1944-45; Foreign Corresp., Europe 1938, 1946; Ed. The Age 1959-66; Chair. Australian Assoc. Press 1965-66; Dir.-Gen. Television Corpn. 1959-66; Consultant to Dept. of Prime Minister and Cabinet 1967-74, 1977; Dir. Australian Paper Manufacturers, Hecla-Rowe Ltd. 1966-; Deputy Chair. Australian Tourist Comm. 1969-75; Vice-Pres. Library Council of Australia 1973-78; Assoc. Commr. Industries Comm. 1974-; Commr. Australian Heritage Comm. 1976-. *Leisure interests:* swimming, reading. *Address:* 138 Toorak Road West, South Yarra, Victoria 3141, Australia. *Telephone:* 26-4331 (Melbourne).

SINCLAIR, Ian David, Q.C., B.A., LL.B.; Canadian lawyer, railway executive and businessman; b. 27 Dec. 1913, Winnipeg, Manitoba; s. of John David and Lillian Sinclair; m. Ruth Beatrice Drennan 1942; two s. two d.; ed. public schools, Winnipeg and Univ. of Manitoba; Asst. Solicitor, Canadian Pacific Railway Co. Ltd. 1942, Solicitor 1946, Asst. to Gen. Counsel 1951, Gen. Solicitor 1953, Vice-Pres. Gen. Council 1960, Vice-Pres. Law 1960, Vice-Pres. and Dir., mem. Exec. Cttee. 1961; Pres. Canadian Pacific Railway Co. Ltd. 1966-69, Pres. and Chief Exec. Officer 1969-72, Chair. and Chief Exec. Officer 1972-; Dir. and Officer Canadian Pacific Air Lines Ltd., Midland Simcoe Elevator Co. Ltd., Canadian Pacific Investments Ltd., PanCanadian Petroleum Ltd., Royal Bank of Canada, Cominco Ltd.; Dir. Canadian Pacific Securities Ltd., numerous other companies; mem. Int. Advisory Cttee., Chase Manhattan Corpn., Canadian Chamber of Commerce, Montreal Board of Trade, Conf. Board, N.Y.; Hon. LL.D. (Manitoba) 1967. *Leisure interests:* reading, motoring. *Address:* Canadian Pacific Ltd., Windsor Station, Montreal, Quebec H3C 3E4, Canada.

SINCLAIR, Rt. Hon. Ian McCahon, P.C., B.A., LL.B.; Australian politician; b. June 1929, Sydney; s. of George and Hazel Sinclair; m. 1st Margaret Tarrant 1956 (died 1967), 2nd Rosemary Edna Fenton 1970; two s. two d.; ed. Knox Grammar School, Wahroonga and Sydney Univ.; barrister 1952-; mem. Legis. Council in N.S.W. Parl. 1961-63, House of Reps. 1963-; Minister for Social Services 1965-68; Minister Assisting Minister for Trade and Industry 1966-71; Minister for Shipping and Transport 1968-71, for Primary Industry 1971-72; Deputy Leader Country Party (now Nat. Country Party) 1971-, Party Spokesman on Defence, Foreign Affairs, Law and Agric. 1973-, Opposition Spokesman on Agric., Leader of Opposition in House of Reps. 1974-75; Minister for Agric. and Northern Australia Nov.-Dec. 1975, for Primary Industry Dec. 1975-; Leader of Govt. in House of Reps. 1975-; Dir. Farmers' and Graziers' Co-operative Co. Ltd. 1962-65; Nat. Country Party. *Leisure interests:* squash, sailing, surfing. *Address:* Parliament House, Canberra, A.C.T.; Glenclair, Bendemeer, N.S.W., Australia (Home).

SINCLAIR, Sir Ronald Ormiston, K.B.E., LL.M.; British lawyer; b. 2 May 1903, Dunedin, New Zealand; s. of W. A. Sinclair; m. Ellen Isabel Entrican 1935; two s.; ed. Auckland Univ. Coll. and Balliol Coll., Oxford; joined Nigerian Admin. Service 1931, Magistrate 1936; Resident Magistrate, Northern Rhodesia 1938; Puisne Judge, Tanganyika 1946-53; Chief Justice, Nyasaland 1953-56; Vice-Pres. East African Court of Appeal 1956-57; Chief Justice of Kenya 1957-62; Pres. H.M. Court of Appeal for Eastern Africa 1962-64; Pres. Court of Appeal for the Bahamas Islands Feb. 1965-70, Court of Appeal for Bermuda June 1965-70, Court of Appeal for British Honduras May 1968-70; Chair. Industrial Tribunals, England and Wales 1965-69. *Leisure interest:* bird watching. *Address:* 158 Victoria Avenue, Remuera, Auckland, 5, New Zealand. *Telephone:* 546-391.

SINDERMANN, Horst; German politician; b. 5 Sept. 1915, Dresden; m.; two c.; mem. Communist Union of Youth, Saxony 1929; political imprisonment 1934-45 (including Sachsenhausen concentration camp); later Chief Ed. Volksstimme (Voice of the People), Chemnitz (now Karl-Marx-Stadt); later Chief Ed., Press Service of Sozialistische Einheitspartei Deutschlands (SED); Chief Ed. SED District paper Freiheit (Freedom), Halle/Saale; staff of Central Cttee. SED 1954-63, Cand. mem. Central Cttee. SED 1959-63, First Sec. District Council of SED 1963-71; mem. 1963-; Cand. mem. Politburo 1963-67, mem. 1967-; First Deputy Chair. G.D.R. Council of Ministers 1971-73, Chair. 1973-76; Vice-Chair. Council of State 1976-; mem. Volkskammer (People's Chamber) 1963-, Pres. 1976-; Karl Marx Orden, Vaterländischer Verdienstorden in silver and gold (twice) and other decorations. *Address:* Volkskammer, Berlin, German Democratic Republic.

SINDI, Sheikh Kamil; Saudi Arabian airline executive; b. 3 Jan. 1932, Mecca; s. of Abdul Rasool Sindi and Asma Mitwalli; m. Wafiga al-Sadat 1954; three s.; joined Saudi Arabian Airlines (SAUDIA) and Civil Aviation Org., Operations and Maintenance Dept. 1947, Sec. to Dir.-Gen. until 1960, Deputy Dir.-Gen. 1956; Dir.-Gen. of Civil Aviation 1961-66; Dir.-Gen. SAUDIA 1967-; Pres. Arab. Air Carriers Org. (AACO) 1971; mem. Exec. Cttee. IATA 1974-; Chevalier de l'Ordre d'Orange-Nassau. *Address:* SAUDIA, P.O. Box 167, Jeddah, Saudi Arabia. *Telephone:* 25222.

SINDONA, Michele, D.IUR.; Italian financial lawyer; b. 8 May 1920; ed. Univ. of Messina; legal practice, Sicily 1940-46, Milan (tax, company and finance) 1946-; controls Fasco A.G. (int. financial group); Pres. Banca di Messina Keyes S.p.A.; Vice-Pres. Acciaierie Crucible Vanzetti, Banca Privata Italiana (merger of Banca Unione with Banca Private Finanziaria); Dir. Snia Viscosa, Remington Rand Italia, Chesebrough Pond's Italia, Stabilimenti Tessili Italiani (S.T.I.), Reeves S.p.A., Società Industriale Agricola per la Produzione di Cellulosa (S.I.A.C.E.) and other companies; indicted for fraud by U.S. Fed. Court March 1979. *Address:* P.O. Box 20122, Milan, Italy.

SINGER, Isaac Bashevis, D.H.L.; American journalist and author; b. 14 July 1904, Radzymin, Poland; s. of Pinchos Menachem and Bathsheba Zylberman; m. Alma Haimann 1940; one s.; ed. Rabbinical Seminary, Warsaw; came to U.S.A. 1935; on staff of Jewish Daily Forward 1935-; Nat. Inst. of Arts and Letters grant 1959, Nat. Council on the Arts grant 1966; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Sciences; Louis Lamed Prize (twice), Creative Arts Award of Brandeis Univ. 1970, Nat. Book Award 1970; Nobel Prize for Literature 1978. *Publications include:* The Family Moskat 1950, Satan in Goray 1955, Gimpel the Fool and other Stories 1957, The Magician of Lublin 1959, The Spinoza of Market Street 1961, The Slave 1962, Short Friday 1964, Zlateh the Goat and Other Stories 1966, In My Father's Court 1966, The Manor 1967, The Séance 1968, The Estate 1969, A Friend of Kafka and Other Stories 1970, Enemies, A Love Story 1972, Crown of Feathers 1974, Why Noah Chose the Dove 1974, Passions 1975, A Little Boy in Search of God (memoirs) 1976, A Young Man in Search of Love (memoirs) 1978, Shosha 1978. *Leisure interest:* walking in the bad air of New York City. *Address:* 209 West 86th Street, New York, N.Y. 10024, U.S.A. *Telephone:* (212) 877-5968.

SINGER, Isadore Manuel, PH.D.; American mathematician; b. 4 May 1924, Detroit, Mich.; s. of Simon Singer and Freda Rose; m. Sheila Ruff 1961; two s. one d.; ed. Univs. of Michigan and Chicago; C.L.E. Moore Instructor at M.I.T. 1950-52; Asst. Prof. Univ. of Calif. (Los Angeles) 1952-54; Visiting Asst. Prof. Columbia Univ. 1954-55; Visiting mem. Inst. for Advanced Study, Princeton 1955-56; Asst. Prof. M.I.T. 1956, Assoc. Prof. 1958, Prof. of Math. 1959-, Norbert Wiener Prof. of Math. 1970-; mem. Nat. Acad. of Sciences, American Mathematical Soc., Mathematical Assn. of America, American Acad. of Arts and Sciences; Sloan Fellow 1959-62, Guggenheim Fellow 1968-69; Bôcher Memorial Prize 1969, 1975-76. *Publications:* Lecture Notes on Elementary Topology and Geometry; author of research articles in functional analysis, differential geometry and topology. *Leisure interests:* literature, hiking, tennis. *Address:* Department of Mathematics, Massachusetts Institute of Technology, Cambridge, Mass. 02139, U.S.A. *Telephone:* (617) 253-2945.

SINGH, Air Chief Marshal Arjan, D.F.C.; Indian air force officer and diplomatist; b. 15 April 1919; ed. Government Coll., Lahore, R.A.F. Coll., Cranwell, and Imperial Defence Coll., London; Wing Commdr. 1945, Group Capt. 1947, Air Cdre. 1950, Air Vice Marshal 1959, Air Marshal 1964, Air Chief Marshal 1966, Chief of Air Staff

1964-69; Amb. to Switzerland 1971-74; High Commr. to Kenya 1974-77; Chair. Indian Inst. of Tech., New Delhi; Patron, All India Fed. of the Deaf; Padma Vibhushan. *Address:* 7-A, Kautilya Marg, Diplomatic Enclave, New Delhi, India.

SINGH, (Chaudhuri) Charan; Indian politician; b. 1902, Noorpur, Meerut district; ed. Agra Univ.; started legal practice in Ghaziabad, moved to Meerut 1929; participated in independence movement; mem. of Parl. from Chhaprauli, Uttar Pradesh Legislative Assembly 1937; Parl. Sec. in various depts. of Uttar Pradesh State Govt. 1946-51; State Minister for Justice and Information 1951-52, for Revenue and Agric. 1952, later for Revenue and Transport until 1959, resigned; State Minister for Home Affairs and Agric. 1960, for Agric. and Forests 1962-65, for Local Self-Govt. 1966-67; leader of Samyukta Vidhayak Dal (political party) 1967; Chief Minister of Uttar Pradesh 1967-68, Feb.-Oct. 1970; founder and Pres. Bharatiya Kranti Dal 1969-77; Deputy Chair. Janata Party Jan. 1977; Minister for Home Affairs, Govt. of India 1977-78, for Finance Jan. 1979-; Joint Deputy Premier Jan. 1979-. *Publications:* books and pamphlets incl. Abolition of Zamindari, Co-operative Farming X-rayed, India's Poverty and its Solution, Peasant Proprietorship or Land to the Workers, Prevention of Division of Holdings below ■ Certain Minimum. *Address:* Ministry of Finance, New Delhi, India.

SINGH, Dinesh, B.A.; Indian politician; b. 19 July 1925, Kalakankar, Uttar Pradesh; s. of Raja Avadhesh Singh and Rani Lakshami Kumari; m. Rani Neelima Kumari Singh 1944; six d.; ed. Doon School, Dehra Doon, and Colvin Coll., Lucknow Univ.; mem. Lok Sabha (Lower House Parl.) 1957-77, Rajya Sabha (Upper House) 1977-; fmr. Private Sec. to Prime Minister; fmr. Sec. to the High Commr. for India in London, to the Embassy in Paris; leader Indian Dels. to FAO, ECAFE, ECOSOC, UNCTAD and UN; Deputy Minister for External Affairs 1962-66; Minister of State for External Affairs 1966-67; Minister of Commerce 1967-69; Pres. of UNCTAD II 1968-72; Minister for External Affairs 1969-70, of Industrial Devt. and Internal Trade 1970-71. *Publications:* Towards new Horizons 1971, India and the Changing Asian Scene 1973. *Leisure interest:* photography. *Address:* 1 Thyagaraja Marg, New Delhi 110011; Raj Bhawan, Kalakankar, Dist. Pratapgarh (U.P.), 230203 India. *Telephone:* 371766 (New Delhi); 21 (Kalakankar).

SINGH, Karan, M.A., PH.D.; Indian politician; b. 9 March 1931, Cannes, France; s. of Lieut.-Gen. H.H. Maharaja Sir Hari Singhji, G.C.S.I., G.C.I.E., G.C.V.O., and Maharani Tara Devi, C.I.; m. Princess Yasho Rajya Lakshmi of Nepal 1950; two s. one d.; ed. Doon School, Univ. of Jammu and Kashmir, and Delhi Univ.; appointed Regent of Jammu and Kashmir 1949; elected Sadar-i-Riyasat (Head of State) by Jammu and Kashmir Legislative Assembly Nov. 1952, recognized by Pres. of India and assumed office 17 Nov. 1952, re-elected 1957 and 1962, Gov. 1965-67; Union Minister for Tourism and Civil Aviation 1967-73, for Health and Family Planning 1973-75, 1976-77; re-elected mem. of Parl. 1977; Treasurer of the Congress Party in Parl. and Convenor of the Party Standing Cttee. in External Affairs; led Indian Del. to World Population conf., Bucharest; Vice-Pres. World Health Assembly 1975-76; fmr. Chancellor Jammu and Kashmir Univ., Banaras Hindu Univ.; Sec. Jawaharlal Nehru Memorial Fund; fmr. Chair. Indian Board for Wild Life, Life Trustee of the India Int. Centre; Hon. Maj.-Gen. Indian Army; Hon. Col. Jammu and Kashmir Regt. *Publications:* several books on political science, philosophical essays, travelogues, translations of Dogra-Pahari folksongs and poems in English. *Address:* 3 Nyaya Marg, Chanakyapuri, New Delhi 11, India. *Telephone:* 371744.

SINGH, Kewal, B.A., LL.B.; Indian diplomatist; b. 1 June 1915, Lyallpur (West Pakistan); s. of late S. Mihan Singh; m. Shamie Grewal; one d.; ed. Forman Christian Coll., Lahore, Law Coll., Lahore, and Balliol Coll., Oxford; joined ICS 1938; ICS appointments 1940-48; First Sec. Indian Embassy, Ankara 1948-49; Indian Military Mission, Berlin 1949-51; Chargé d'affaires, Lisbon 1951-53; Consul-General, Pondicherry 1953-54; Chief Commr., State of Pondicherry, Karaikal, Mahe and Yanam 1955-57; awarded Padma Shri for distinguished services leading to merger of French Possessions with India; Amb. to Cambodia 1957-58, to Sweden (concurrently accredited to Denmark and Finland from 1960) 1958-62; Deputy High Commr. in U.K. 1962-65; High Commr. in Pakistan 1965-66; Amb. to U.S.S.R. 1966-68; Sec. Ministry of External Affairs 1968-70; Amb. to Fed. Repub. of Germany 1970-72; Foreign Sec., Ministry of External Affairs 1972-76; Amb. to U.S.A. 1976-77. *Address:* c/o Ministry of Foreign Affairs, New Delhi, India.

SINGH, Khushwant, LL.B.; Indian author; b. 1915; ed. Government Coll., Lahore, King's Coll. and Inner Temple, London; practised, High Court, Lahore 1939-47; joined Indian Ministry of External Affairs 1947; Press Attaché, Canada and then Public Relations Officer, London 1948-51; Ministry of Information and Broadcasting; edited Yojana; Dept. of Mass Communication, UNESCO 1954-56; commissioned by Rockefeller Foundation and Muslim Univ., Aligarh, to write ■ history of the Sikhs 1958; Visiting Lecturer Hawaii, Oxford, Princeton, Rochester, Swarthmore; numerous TV and radio appearances; Grove Press Award; Mohan Singh award; Padma Bhushan 1974; Ed. The Illustrated Weekly of India 1969-78. *Publications:* Mark of Vishnu 1949, The Sikhs 1951, Train to Pakistan 1954, Sacred Writings of the Sikhs 1960, I shall not hear the Nightingale 1961, Umrao Jan Ada—Courtesan of Lucknow (trans.) 1961, History of the Sikhs (1769-1839) Vol. I 1962, Ranjit Singh: Maharaja of the Punjab 1962, Fall of the Sikh Kingdom 1962, The Skeleton (trans.) 1963, Land of the Five Rivers (trans.) 1964, History of the Sikhs (1839-Present Day) Vol. II 1965, Khushwant Singh's India 1969, and others. *Address:* c/o The Illustrated Weekly of India, Times of India Building, Dr. Dadabhai Naoroji Road, Bombay 1, India. *Telephone:* 268271.

SINGH, Lallan Prasad, M.A.; Indian administrator and diplomatist; b. 1 July 1912; Chief Sec. Govt. of Bihar 1948-56; Dir. Dept. of Manpower, Ministry of Home Affairs, also Sec. Second Pay Comm. 1956-59; Special Sec. Ministry of Home Affairs 1960-64; Home Sec. 1964-70; Amb. to Nepal 1971-73; Gov. Assam, Manipur, Meghalaya, Nagaland and Tripura Sept. 1973-; Fellow, Centre for Int. Affairs, Harvard Univ. 1959-60; Gov. Indian Inst. of Public Admin., Indian Inst. of Man., Ahmedabad, Indian Inst. of Manpower Research, Indian Council of Social Science Research. *Address:* Raj Bhavan, Shillong 793001, Meghalaya, India.

SINGH, Nagendra, M.A., LL.D., D.LITT., D.PHIL., D.SC., D.C.L.; Indian civil servant and international lawyer; b. 18 March 1914, Dungarpur, Rajasthan; s. of Maharawal Bijaya-Singhji and Maharani Devendra-Kunwer; m. Pushpakumari Devi 1940; ed. Agra and Cambridge Univs., and Gray's Inn, London; entered ICS 1938; posts include: Special Sec. Ministry of Information and Broadcasting 1964; Sec. Ministry of Transport and Dir.-Gen. of Shipping 1966; Sec. to Pres. of India 1966-; Constitutional Adviser to Govt. of Bhutan 1970-; Chair. Govt. Shipping Corpn. 1962, The Mogul Line Ltd. 1960-61, 1963-67, The Hindustan Shipyard Ltd. 1962-67 (Dir. 1956-57); mem. Indian Constituent Assembly 1947-48; Justice of the Peace, Bombay 1948-; Nehru Prof. of Int. Law and Co-operation, Graduate Inst. of Int. Studies, Univ. of Geneva; Prof. of Human Rights and Int. Co-operation, Univ. of Tribhuban, Nepal; Prof. of Int. Law and Maritime Law, Univ. of Madras; Visiting Prof. Univ. of Delhi; mem. Perm. Court of Arbitration, The Hague 1967; mem. Int. Law Comm. 1966-, Vice-Chair. 1969; Vice-Chair. UN Comm. on Int. Trade Law 1969, Chair. 1971; Judge, Int. Court of Justice 1973-, Vice-Pres. 1976-79; mem. Panel of Legal Experts, IAEA; founder mem. Int. Council for Environmental Law 1969; Pres. IMCO Assembly 1963-65; Pres. Indian Soc. of Int. Law, Maritime Law Assen. of India, Indian Acad. of Environmental Law, Conservation and Research; mem. Inst. de Droit Int., Indian Inst. of Public Admin., India Int. Centre, etc.; Master Bencher, Grays Inn 1973; Fellow, St. John's Coll., Cambridge 1974; LL.D. h.c. (Univs. of Jodhpur, Kurukshetra, Punjab, Guru Nanak Univ.) 1975-77; Padma Vibushan Award 1973. *Publications:* Termination of Membership of International Organizations 1958, Nuclear Weapons and International Law, Defence Mechanism of the Modern State 1963, The Concept of Force and Organization of Defence in the Constitutional History of India 1969, Achievements of UNCTAD I and II in the field of Invisibles 1969, India and International Law 1969, Bhutan 1971, Maritime Flag and International Law 1978; several vols. of lectures and numerous articles on questions of int. law, etc. *Address:* International Court of Justice, Peace Palace, The Hague, Netherlands; 6 Akbar Road, New Delhi, India.

SINGH, Raja Roy; Indian educationist; b. 5 April 1918, Pithoragarh; s. of Th. Durg Singh; m. Zorine Bonifacius 1943· two s. three d.; ed. Univ. of Allahabad; entered Indian Admin. Service 1943; fmr. Dir. of Educ., Uttar Pradesh; fmr. Joint Sec., Fed. Ministry of Educ., New Delhi; fmr. Joint Dir. Indian Council of Educational Research and Training, Nat. Inst. of Educ.; at Office of Educational Planning, UNESCO Headquarters, Paris 1964-65; Dir. UNESCO Regional Office for Educ. in Asia 1965-. *Publication:* Education in the Soviet Union. *Leisure interests:* art, theatre, music. *Address:* UNESCO Regional Office for Educ. in Asia, P.O. Box 1425, Darakarn Building, 920 Sukhumvit Road, Bangkok, Thailand. *Telephone:* 391-8474.

SINGH, Sher, M.A.; Indian agriculturist and politician; b. 18 Sept. 1917, Baghpur Dist. Rohtak (Haryana); s. of Ch. Sis Ram; m. Smt. Prabhat Shobha 1942; one s. two d.; ed. Delhi Univ.; fmr. Lecturer, M.S.J. Coll., Bharatpur and Lecturer in Mathematics, Jat Coll., Rohtak; elected to Punjab Legis. Assembly 1946, 1952, 1957, to Punjab Legis. Council 1962; Parl. Sec. Punjab 1948-51; Deputy

Leader Congress Legislature Party, Punjab 1956-57; Minister of Irrigation and Power, Punjab 1956-57; mem. Lok Sabha 1967; Minister of State, Ministry of Educ. 1967-69; Minister of State, Ministry of Information and Broadcasting Communications 1969-71; Minister of State for Agriculture 1971-74, for Communications 1974-77; Chancellor of Gurukl, Jhajjar; mem. of Syndicate of Gurukl Kangri Univ.; fmr. Founder-Pres. Haryana Lok Samiti; del. to several int. confs. *Address:* c/o Lok Sabha, New Delhi, India.

SINGH, Swaran, M.SC., LL.B.; Indian politician; b. 19 Aug. 1907; ed. Govt. Coll., Lahore, and Lahore Law Coll.; elected Punjab Legis. Assembly 1946; Minister of Devt., Food, Civil Supplies 1946-47; mem. Gov's. Security Council, then Partition Cttee. 1947; Minister of Home, Gen. Admin., Revenue, Irrigation and Electricity in first Punjab Congress Ministry 1947-49; resigned to resume legal practice; Minister of Capital Projects and Electricity 1952; Minister for Works, Housing and Supply (Cen. Govt.) 1952-57; fmr. mem. Rajya Sabha; initiated Subsidized Industrial Housing Scheme; mem. Lok Sabha 1957-77; Minister for Steel, Mines and Fuel 1957-62; Minister for Railways 1962-63, of Food and Agric. 1963-64, of Industry, Eng. and Tech. Devt. June-July 1964, of External Affairs 1964-66, 1970-74, of Defence 1966-70, 1974-75; Pres. Indian Nat. Congress March-May 1977, March 1978-; Pres. Indian Council of World Affairs; led Indian Del. to UN Gen. Assembly 1964-66, 1970-73, ECOSOC 1954, 1955; Rep. to Commonwealth Prime Ministers' Conf. 1971, 1973. *Address:* Indian National Congress, 5 Dr. Rajendra Prasad Road, New Delhi, India.

SINGH, Tarlok, B.A., B.SC.; Indian economist; b. 26 Feb. 1913, Gujranwala; s. of Gurmukh Singh and Gyan Kaur; m. Kamla Verma 1939; three s.; ed. St. Vincent's School and Deccan Coll., Poona, Gujarat Coll., Ahmedabad, and London School of Economics; ICS 1937-62; Colonization Officer, Nili Bar Colony, Punjab 1943; Finance Dept., Govt. of India 1944-46; Private Sec. to Vice-Pres. Interim Govt. and to Prime Minister 1946-47; Dir.-Gen. of Rehabilitation 1947-49; mem. Planning Comm. 1962-67, Additional Sec. and other positions 1950-62; Fellow, Inst. for Int. Econ. Studies, Univ. of Stockholm 1967 and 1969-70; Visiting Research Economist, Woodrow Wilson School, Princeton Univ. 1968; Deputy Exec. Dir. (Planning) UNICEF 1970-74; Hon. Fellow, L.S.E.; Padma Shri 1954, Padma Bhushan 1962, Swedish Royal Acad. Sciences Söderström Medal 1970. *Publications:* Poverty and Social Change 1945 (2nd edn. 1969), Resettlement Manual for Displaced Persons 1952, Towards an Integrated Society 1969, India's Development Experience 1974. *Leisure interest:* rural studies. *Address:* 110 Sundar Nagar, New Delhi, India.

SINGHANIA, Sir Padampat, Kt.; Indian industrialist; b. 1905; ed. privately; Pres., J.K. Org. (Juggilal Kamlapat Group of Mills), Kanpur; a pioneer of cotton and woollen textiles, rayon, nylon, jute, sugar, hosiery, iron and steel, aluminium, plastic, strawboard, chemical, mining and oil industries; founder Merchants' Chamber of U.P.; fmr. Pres. Fed. of Indian Chambers of Commerce and Industries; mem. 1st Indian Parl.; fmr. Chair. Indian Inst. of Tech., Kanpur; founder numerous insts. including J.K. Inst. of Applied Physics and Tech., J.K. Inst. of Sociology and Human Relations, J.K. Inst. of Radiology and Cancer Research; Hon. D. Lit. (Kanpur). *Leisure interest:* philanthropy. *Address:* Kamla Tower, Kanpur, India. *Telephone:* 51147.

SINGHUBER, Dr. Kurt; German engineer and politician; b. 20 April 1932, Vienna, Austria, ed. Metallurgical Inst., Dnepropetrovsk, U.S.S.R.; Deputy Minister of Ore Mining, Metallurgy and Potash, G.D.R. 1966-67, Minister 1967-; mem. G.D.R. Research Council 1966-; mem. SED 1951-; Orden Banner der Arbeit. *Address:* Ministerrat, Berlin, German Democratic Republic.

SINGIER, Gustav Henri; Belgian-born French artist; b. 11 Feb. 1909, Warneton, Belgium; m.; one d.; foundation mem. of the Salon de Mai 1945-; has exhibited in Paris, Stockholm, Brussels, Hanover, New York, London, Turin and Venice; has exclusive contract with Galerie de France, Paris; works in museums at Paris, New York, Vienna, Brussels, Basel, Johannesburg, Essen, Wellington, Tate Gallery, London, etc.; numerous tapestries, theatre sets and costumes; teacher of painting Acad. Ranson 1951-54, and Ecole Nationale des Beaux Arts, Paris. *Address:* 203 rue de Vaugirard, 75015 Paris, France. *Telephone:* SEGur 64-05.

SINHA, Satya Narayan; Indian politician; b. 1900, Shambhupath, Bihar; ed. Patna Univ.; joined Non-Violence Movement and imprisoned 1920; mem. Bihar Legislature 1926-30; Pres. Darbhanga District Congress Cttee. 1930-47; mem. Indian Constituent Ass. 1926-47, of Lok Sabha 1947-; Minister of State for Parl. Affairs 1949-52; Minister for Parl. Affairs 1952-67, of Information and Broadcasting 1963-64, of Civil Aviation 1964, of Communications 1964-67; Minister without Portfolio 1967; Minister of Health, Family Planning and Urban Devt. 1967-69; Minister of Information, Broadcasting and Communications 1969-71; Gov. Madhya Pradesh 1971-77; Pres. Indian Council of Medical Research; Chief Whip Congress Party in Cen. Assembly and Constituent Assembly. *Address:* c/o Raj Bhavan, Bhopal, India.

SINITSIN, Ivan Flegonovich; Soviet politician; b. 6 July 1911; ed. Gorky Industrial Inst.; Gorky Motor Works 1929-36; worker at other enterprises, Gorky 1936-46; Dir. Volgograd Tractor Works 1950-57; later Head of Econ. Councils, Volgograd Region 1957-62; Chair. Lower Volga Econ. Council 1962-65; Minister of Tractor and Agricultural Machinery Industry 1965-; Cand. mem. CPSU Cen. Cttee. 1966-; Deputy to U.S.S.R. Supreme Soviet 1954; Order of Lenin, Order of October Revolution, and other decorations. *Address:* Ministry of Tractor and Agricultural Machinery Industry, Moscow, U.S.S.R.

SINSHEIMER, Robert Louis, S.B., S.M., PH.D.; American biologist; b. 5 Feb. 1920, Washington, D.C.; s. of Allen and Rose Davidson Sinsheimer; m. 1st Flora Joan Hirsch 1943 (divorced 1972), 2nd Kathleen Mae Reynolds 1972; one s. two d.; ed. Massachusetts Inst. of Tech.; Research Assoc., Biology, M.I.T. 1948-49; Assoc. Prof. of Biophysics, Iowa State Coll. 1949-55, Prof. 1955-57; Prof. of Biophysics, Calif. Inst. of Tech. 1957-, Chair. Div. of Biology 1968-77; Chancellor, Univ. of Calif. at Santa Cruz 1977-; mem. Nat. Acad. of Sciences, U.S.A.; Calif. Scientist of the Year Award 1968, Beijerinck Medal of the Royal Netherlands Acad. of Sciences 1969; Pres. Biophysical Soc. 1970-71; mem. Council of Nat. Acad. of Sciences 1970-73, Chair. Board of Editors, Nat. Acad. of Sciences Proceedings 1972-. *Publications:* More than 200 scientific papers 1946-78. *Leisure interests:* camping, hiking and photography. *Address:* Office of the Chancellor, University of California at Santa Cruz, Santa Cruz, Calif. 95064 (Office); University House, University of California at Santa Cruz, Santa Cruz, Calif. 95064, U.S.A. (Home). *Telephone:* 408-429-2156 (Office); 408-423-0499 (Home).

SINYAVSKY, Andrey Donatovich (pseudonym Abram Tertz); Soviet writer; b. 1925, Moscow; ed. Moscow Univ.; mem., Gorky Inst. of World Literature -1965; taught and wrote articles for Novy Mir -1965; arrested for "distributing anti-Soviet propaganda" (allowing his works to be published in West) 1965; convicted with Yuli Daniel and sentenced to hard labour 1966; held in a succession of forced labour camps 1966-71; left Soviet Union and settled in Paris 1973; now teaches at Paris Univ. 1973-. *Publications:* Chapters on Gorky and Bagritsky in History of Soviet Russian Literature 1958, On Socialist Realism (in French, Esprit, Feb. 1959), The Trial Begins (in Russian, in Polish Kultura, Paris, later in English in Encounter) 1960, The Icicle and Other Stories (Paris) 1961, (English trans. 1962), The Poetry of the Revolutionary Era (Moscow) 1964, Introduction to Pasternak's Poetry (Moscow) 1965; novel: Lyubimov (Paris) 1964, (English trans. The Makepeace Experiment 1965), Unguarded Thoughts (New York 1965), Pkhentz (short-story) in Encounter 1966, The Fantastic World of Abram Tertz (New York) 1967, introductory essay to Anna Akhmatova (Penguin) 1969, A Voice from the Chorus 1974 (English trans. 1976), Strolling with Pushkin 1975, In The Shadow of Gogol 1975.

SIPILÄ, Helvi Linnea; Finnish lawyer and United Nations official; b. 5 May 1915, Helsinki; s. of Vilho Sipilä and Sanni Maukola; m. Sauli (Sipilä) 1939; three s. one d.; ed. Univ. of Helsinki; acting judge, rural district courts 1941-42; Sec. Ministry of Supply 1942-43; held various legal posts in Supreme Court and Supreme Admin. Court 1941-51; Dir. and founder of law office 1943-72; mem. various Finnish govt. cttees. on matrimonial legislation, protection of children, social benefits for children, citizenship educ. and int. devt. aid 1950-; mem. World Cttee. of World Assn. of Girl Guides and Girl Scouts 1957-66; Chief Commr. of Finnish Girl Guides 1952-69; mem. Council, Human Rights Inst., Strasbourg 1969-; Pres. Int. Fed. of Women Lawyers 1954-56, ZONTA Int. 1968-70; Vice-Pres. Int. Council of Women 1970-; Chair. Finnish Refugee Council 1965-72; Rep. of Finland, UN Comm. on Status of Women 1960-68, 1971-72, Vice-Chair. 1963-66, Chair. 1967; mem. Finnish del. to UN Gen. Assembly 1966-72, Chair. Third Cttee. 1971; Asst. Sec.-Gen. (for social and humanitarian matters), UN 1972-; Gen. Sec. UN Int. Women's Year 1975. *Address:* United Nations, First Avenue, New York, N.Y. 10017, U.S.A.

SIPPEL, Heinz, DR.RER.POL.; German banker; b. 7 Nov. 1922, Leverkusen; m. Christa Dausel 1953; one d.; ed. Carl Duisberg Gymnasium, Leverkusen, Cologne Univ.; Kreditanstalt für Wiederaufbau 1951-56; Man. Regional Credit Dept., Commerzbank AG, Düsseldorf 1957-61; Head of Credit Dept., Bankhaus Friedrich Simon, Düsseldorf 1961-62; joined Rheinische Girozentrale und Provinzialbank as Head of Essen Branch 1962, Alt. mem. Man. Board 1967, mem. Man. Board 1968; mem. Man. Board, West-

deutsche Landesbank Girozentrale 1969; Chair. Man. Board, Hessische Landesbank Girozentrale 1975-; Dir. Banque Worms, BCL Banque Continentale du Luxembourg S.A., DGZ Deutsche Girozentrale Deutsche Kommunalbank, DSGV Deutscher Sparkassen- und Giroverband, IHB Investitions- und Handelsbank AG, LZB Landeszentralbank in Hessen, MHB Mitteleuropäische Handelsbank AG, Overseas Investors Inc. *Leisure interests:* hiking, gardening, classical music. *Address:* 6242 Kronberg, Parkstrasse 38, Federal Republic of Germany.

SIRACUSA, Ernest Victor; American diplomatist; b. 30 Nov. 1918, Coalinga, Calif.; s. of Sisti and Caterina Cazzola Siracusa; m. Jacq Bachman 1951; one s. two d.; ed. Fullerton Junior Coll., Stanford Univ. and Mass. Inst. of Technology; joined foreign service 1941; has served in Mexico, Honduras, Guatemala, Argentina, Italy and Peru; Adviser, Latin American Affairs, U.S. Perm. Mission to UN, New York 1962-63; Deputy Chief of Mission, U.S. Embassy, Lima 1963-69; Amb. to Bolivia 1969-73, to Uruguay 1973-77. *Leisure interests:* yachting, flying, painting in oils, horseback riding, motorcycling. *Address:* c/o Department of State, 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

SIREGAR, Melanchton; Indonesian teacher and politician; b. 7 Aug. 1913, Pea-Arung Numbang, N. Tapanuli; m. 1st Bertha Ramian Siburian 1940 (died 1947), 2nd Setjawan Siburian 1948; ed. Christian Teachers' Training Coll. (H.I.K.), Solo, and Coll. for Headmasters' Degree, Bandung; Teacher and Headmaster in various schools 1938-45; Dir. Higher Tech. School, Pematang Siantar 1945-47; Head of Gen. and Vocational Training Divs. of Service of Educ., Instruction and Culture, Pematang Siantar, Sumatra 1947, similar senior appts. in Educ. Service and Insp. of Secondary Schools in N. Sumatra 1947-51; Co-ordinator of Office for Inspection of Educ. of N. Sumatra Region, Medan 1952-56; mem. of Exec., N. Sumatra Rep. Council 1948-50; mem. Parl. 1956-71; Gen. Chair. in N. Sumatra and Co-ordinator in Sumatra, PARKINDO 1950-60, Vice-Chair. Man. Board 1960-64, Gen. Chair. of Exec. Board 1964-67, Gen. Chair. 1967-73; Vice-Chair. Peoples' Congress of Repub. of Indonesia (MPRS) 1966-72; mem. of Indonesian Dels. to UN 1957, 1967. *Leisure interest:* reading about politics, literature and theology. *Address:* 59 H.O.S. Tjokroaminto Street, Jakarta, Indonesia. *Telephone:* 45322-3.

SIREN, Heikki; Finnish architect; b. 5 Oct. 1918, Helsinki; s. of Prof. J. S. and Sirkka Siren; m. Kaija Siren (q.v.) 1944; two s. two d.; started private practice with Kaija Siren, Arkkitehtitoimisto Kaija & Heikki Siren 1949-; mem. Finnish Acad. of Technical Sciences 1971; Hon. Citation and Medal São Paulo Biennal 1957, Medal São Paulo Biennal 1961, Hon. Citation "Auguste Perret", Union Int. des Architectes 1965; Prof. h.c. 1970; Officier Ordre national du Mérite 1971, SLK (Finland) 1974, Grand Silver Order of Austria 1977. *Major works include:* Little Stage of Nat. Theatre, Helsinki 1954, Concert House, Lahti 1954, Chapel in Otaniemi 1957, Church in Orivesi 1960, Office Buildings, Helsinki 1965, Housing Area in Boussy St. Antoine, Paris 1970, "Round Bank" Kop, Helsinki, Schools, Sports Centres, Offices, Industrial Bldgs., Housing, Holiday Centres, etc., Brucknerhaus Concert Hall, Linz, Austria 1974, Golf complex, Karuizawa, Japan 1974, Golf Club, Onuma, Hokkaido, Japan 1976, Reichsbrücke, Vienna, Austria, Conference Palace, Baghdad, Iraq. *Publications:* Kaija and Heikki Siren, Architects 1976. *Leisure interests:* sailing, theatre, art, music. *Address:* Lounaisväylä 8, Helsinki 20, Finland. *Telephone:* 673032 (Office); 672445 (Home).

SIREN, Katri (Kaija) Anna-Maija Helena; Finnish architect; b. 23 Oct. 1920, Kotka; d. of Gottlieb and Lydia Tuominen; m. Heikki Siren (*q.v.*) 1944; two s. two d.; private practice in partnership with Heikki Siren, Arkkitehtitoimisto Kaija & Heikki Siren 1949-; Hon. Citation and Medal São Paulo Biennal 1957, Medal São Paulo Biennal 1961, Hon. Citation "Auguste Perret", Union Int. des Architectes 1965; Grand Silver Order of Austria (with star) 1977. *Major works include:* Little Stage of Nat. Theatre, Helsinki 1954, Concert House, Lahti 1954, Chapel in Otaniemi 1957, Church in Orivesi 1960, Office Bldgs., Helsinki 1965, "Round Bank" Kop, Helsinki, Schools, Sports Centres, Offices, Industrial Bldgs., Housing, Holiday Centres, etc. *Publications:* Kaija and Meikki Siren, Architects 1976. *Leisure interests:* out-of-doors life, theatre, music. *Address:* Lounaisväylä 8, Helsinki 20, Finland. *Telephone:* 673032 (Office); 672445 (Home).

SIRI, H.E. Cardinal Giuseppe; Italian ecclesiastic; b. 20 May 1906, Genoa; s. of Nicolò Siri and Giulia Bellavista; ed. Episcopal Seminary, Genoa, and Pontifical Gregorian Univ., Rome; ordained priest 1928; Titular Bishop of Livias 1944; Archbishop of Genoa 1946-; created Cardinal by Pope Pius XII 1953; Pres. Episcopal Dir. Comm., Italian Catholic Action, Episcopal Conference of Italy (C.E.I.) 1959-61; Chair. Italian Episcopal Conf. 1955-65; mem. Sacred Congregations of Sacraments of the Council and of Seminaries and Univs. of Study. *Publications:* Corso di Teologia per Laici 1942, La Strada passa per Cristo 1956, Riflessioni sul movimento teologico contemporaneo 1975. *Address:* Palazzo Arcivescovile, Piazza Mateotti 4, 16123 Genoa, Italy.

SIRICA, John Joseph; American judge; b. 19 March 1904, Waterbury, Conn.; s. of Fred and Rose (Zinno) Sirica; m. Lucille M. Camalier 1952; one s. two d.; ed. Georgetown Univ.; fmr. practising lawyer; Asst. U.S. Attorney for District of Columbia 1930-34; chief trial lawyer for Hogan & Hartson (law firm), Washington 1949-57; Judge, U.S. District Court for District of Columbia 1947-, Chief Judge 1971-74; tried "Watergate" wiretapping and conspiracy cases 1973-74; Adjunct Prof. of Law, Georgetown Univ. Law Center; mem. American Bar Assn.; Award of Merit, American Judges Assn. *Address:* U.S. Court House, Washington, D.C. 20001, U.S.A.

SISCO, Joseph John, PH.D.; American government official; b. 31 Oct. 1919; ed. Knox Coll. and Univ. of Chicago; U.S. Army 1941-45; CIA 1950-51; Dept. of State 1951-76, Officer-in-Charge, UN Political Affairs 1951-58; Deputy Dir. Office of UN Political and Security Affairs 1958-60, Dir. 1960-62; Deputy Asst. Sec. 1962-65; Asst. Sec. of State for Int. Org. Affairs, Dept. of State July 1965-69; Asst. Sec. State, Middle East-S. Asia 1969-74; Under-Sec. of State for Political Affairs 1974-76; Pres. American Univ. in Washington 1976; Rockefeller Public Service Award 1971. *Address:* The American University, Washington, D.C. 20016, U.S.A.

ŠIŠKA, Karol, MU.DR., DR.SC.; Czechoslovak medical scientist and surgeon; b. 19 March 1906, Selenča, Yugoslavia; s. of Samuel and Maria Lekar Šiška; m. 1942; four s.; ed. Charles Univ., Prague; Head, Second Surgical Clinic, Medical Faculty, Comenius Univ. Bratislava 1951, Prof. of Medical Faculty 1953-; Dir., Inst. of Experimental Surgery, Slovak Acad. of Sciences 1964-; Academician, Slovak Acad. of Sciences 1955- (Vice-Pres. 1961-65, Pres. 1970-74), Czechoslovak Acad. of Sciences 1962- (Vice-Pres. 1971-74); mem. of Presidium, Czechoslovak Acad. of Sciences 1961-65, Slovak Acad. of Sciences 1965-; mem. Cen. Cttee. of CP of Slovakia 1958-62, and of Czechoslovakia 1962-76; Deputy to Slovak Nat. Council 1969-71; Deputy of House of Nations, Fed. Assembly 1971-76; Deputy Chair. Czechoslovak Cttee. for European Security 1970-71; Chair. Cttee. for Klement Gottwald State Prize 1971-74; Chair. Slovak Surgical Soc. 1973-77; Hon. Chair. Slovak Medical Soc. 1973-; designed heart and lung machine for use during operations; Foreign mem. Acad. of Medical Sciences of the U.S.S.R. 1969-, Acad. of Sciences of U.S.S.R. 1973, Acad. of Sciences of German Democratic Repub. 1974; J. E. Purkyně Medal 1956, Order of Labour 1961, State Prize of Slovak Socialist Repub. 1969, and many other scientific honours. *Publications:* papers on chest surgery and cardiosurgery. *Leisure interests:* medicine, swimming, tourism. *Address:* Institute for Experimental Surgery, Slovak Academy of Sciences, Dárbravská ceska Patrónka 2, Bratislava; Kuzmányho 5, Bratislava, Czechoslovakia.

SISSON, Charles Hubert, B.A.; British writer; b. 22 April 1914, Bristol; s. of R. P. and E. M. (née Worlock) Sisson; m. Nora Gilbertson 1937; two d.; ed. Univ. of Bristol, postgraduate studies in Berlin and Paris; various posts in Ministry of Labour, later Dept. of Employment 1936-, Under-Sec. 1962-73; served in army, in the ranks 1942-45; Simon Senior Research Fellow, Univ. of Manchester 1956-57; Joint Ed. PN Review (fmrly. Poetry Nation) 1976-. *Publications:* An Asiatic Romance 1953, Versions and Perversions of Heine 1955, The Spirit of British Administration 1959, The London Zoo (poems) 1961, Christopher Homm 1965, Art and Action 1965, Numbers (poems) 1965, Catullus (trans.) 1966, Metamorphoses (poems) 1968, English Poetry 1900-1950 1971, The Case of Walter Bagehot 1972, In the Trojan Ditch (collected poems and selected trans.) 1974, The Poetic Art 1975, Lucretius (trans.) 1976, Anchises (poems) 1976, David Hume 1976, The Avoidance of Literature (collected essays) 1978, Some Tales of La Fontaine (trans.) 1979. *Address:* Moorfield Cottage, The Hill, Langport, Somerset, TA10 9PU, England. *Telephone:* Langport 250845.

SITHOLE, Rev. Ndabaningi; Rhodesian clergyman and politician; b. 1920; ed. Waddilove Inst., Marandellas and Newton Theological Coll., U.S.A.; Teacher 1941-55; U.S.A. 1955-58; ordained at Mount Silinda Congregationalist Church 1958; Principal, Chikore Cen. Primary School; Pres. African Teachers Assn. 1959-60; Treas. Nat. Dem. Party (NDP) 1960; Del. to Fed. Review Conf. London Dec. 1960; fmr. Chair. Zimbabwe African People's Union (ZAPU) S. Rhodesia, Pres. July-Aug. 1963; Leader Zimbabwe African Nat. Union (ZANU) Rhodesia 1963-, incorporated in African Nat. Council Dec. 1974; sentenced to 12 months imprisonment

Dec. 1963, sent to Wha Wha Restriction Camp May 1965; tried and sentenced to six years hard labour for incitement to murder Ian Smith Feb. 1969, released Dec. 1974; then in exile in Zambia with section of the African Nat. Council (ANC) led by Bishop Muzorewa; withdrew faction of ZANU from ANC Sept. 1976, formed ANC (Sithole); attended Rhodesian Constitutional Conf., Geneva 1976; mem. Transitional Exec. Council to prepare for transfer of power in Rhodesia 1978-79; mem. Parl. 1979-. *Publications:* African Nationalism 1969, 1967, The Polygamist 1973, Roots of a Revolution: Scenes from Zimbabwe's Struggle 1977. *Address:* House of Assembly, Salisbury, Zimbabwe. Rhodesia.

SITNIN, Vladimir Ksenofontovich; Soviet politician; b. 1907; ed. Moscow Inst. of Nat. Economy; Economist and consultant, U.S.S.R. State Bank 1928-31; Economist, U.S.S.R. Ministry of Finance 1931-41; army service 1941-50; Exec. Ministry of Finance 1950-60, Deputy Minister and First Deputy Minister 1960-65; Chair. State Prices Cttee., U.S.S.R. Planning Comm. 1965-70; Chair. State Prices Cttee., U.S.S.R. Council of Ministers 1970-74; Lecturer, Moscow Inst. of Nat. Economy; mem. CPSU 1945-; Deputy to U.S.S.R. Supreme Soviet 1970-. *Address:* c/o State Prices Committee, U.S.S.R. Council of Ministers, Moscow, U.S.S.R.

SITWELL, Sir Sacheverell, 6th Bt., cr. 1808; British writer; b. 1897; brother of the late Dame Edith Sitwell and the late Sir Osbert Sitwell; ed. Eton and Balliol Coll., Oxford. *Publications include:* The People's Palace, Doctor Donne and Gargantua, The Hundred and One Harlequins, Four Essays on Baroque Art, Actor Rehearsing and Other Poems, The Thirteenth Caesar, Canons of Giant Art, Life of Liszt, Touching the Orient, Dance of the Quick and the Dead, Collected Poems, La Vie Parisienne, Narrative Pictures, Roumanian Journey, Trio, Mauretania, Poltergeists 1940, Of Sacred and Profane Love 1940, Valse des Fleurs 1941, Primitive Scenes and Festivals 1942, Splendour and Miseries 1943, British Architects and Craftsmen 1945, Selected Poems 1948, Cupid and the Jacaranda 1952, Truffle Hunt with Sacheverell Sitwell 1953, Portugal and Madeira 1954, Denmark 1956, Arabesque and Honeycomb 1957, Austria 1959, Journey to the Ends of Time, Vol. I: Lost in the Dark Wood 1959, The Bridge of the Brocade Sash: Travels and Observations in Japan 1959, Golden Wall and Mirador 1961, The Red Chapels of Banteai Srei 1962, Great Palaces 1964, Monks, Nuns and Monasteries 1965, Southern Baroque Revisited 1968, Gothic Europe 1969, For Want of the Golden City 1973; and 44 books of new poems (privately printed) 1972-78. *Address:* Weston Hall, Towcester, Northants., England. *Telephone:* Sulgrave 213.

SIVADON, Paul Daniel; French psychiatrist; b. 10 Jan. 1907, Moncoutant; s. of Daniel Sivadon and Leïla Verbizier; m. Renée Nodot 1930; three c.; ed. Lycée Blaise Pascal, Clermont Ferrand, and Univ. de Paris; Head, Clinic for Mental Illness, Faculté de Paris 1935-36; Dir. Colonie Familiale, Seine 1936-43; Head Dr. Psychiatric Hospital, Ville-Evrard 1943-58; Prof. of Psychiatry and Medical Psychology, Univ. of Brussels 1959-77; Dir. Psychiatric Services for Nat. Educ. 1958-72; Consultant WHO 1951-65; fmr. Pres. World Fed. for Mental Health 1960-61; Pres. French League for Mental Hygiene 1961-66, Soc. Médico-Psychologique 1975; Officier Légion d'honneur, Officier de la Santé publique, Commdr. Ordre de la Couronne, Grand Officier Ordre Léopold II (Belgium). *Publications include:* Psychoses puerpérales 1933, Rééducation Corporelle des Fonctions Mentales 1965, Psychopathologie du Travail 1969, Traité de Psychologie Médicale (three vols.) 1973, and over 400 scientific articles. *Address:* 8 rue de L'Alboni, Paris 16e, France. *Telephone:* 870-64-87.

SIVASITHAMPARAM, M.; Ceylonese (Tamil) lawyer and politician; b. 20 July 1923, Jaffna; s. of Cittampalam and Maheswari Murugesu; m. Sarathadevi (Sivasithamparan) 1949; one s. one d.; ed. Vigresmara Coll., St. Joseph's Coll., Univ. Coll., Law Coll.; Sec. of Union Soc., Univ. Coll. 1947-48; Pres. Law Students' Union, Law Coll. 1949-50; mem. House of Reps. for Udduppiddi 1960-70; Gen. Sec. All Ceylon Tamil Congress 1966-77, Pres. 1977-; Joint Sec.-Gen. Tamil United Liberation Front (TULF) 1976-78, Pres. 1978-; Mem. Parl. for Nallur July 1977-. *Address:* Head Office, Tamil United Liberation Front, 238 Main Street, Jaffna (Office); 100 Norris Canal Road, Colombo 10, Sri Lanka (Home). *Telephone:* 7176 (Office); 91017 (Home).

SIVERD, Clifford David, B.S.; American business executive; b. 25 June 1912, Cumberland, Md.; s. of Norman Elder Siverd and Eva V. Mause; m. Elizabeth Ann Klink 1939; two s. one d.; ed. Johns Hopkins Univ.; Asst. Gen. Man. Agricultural Div., American Cyanamid Co. 1958-60, Gen. Man. 1960-65, Vice-Pres. 1965-67, Pres. and Chief Exec. Officer 1967-72, Chair. and Chief Exec. Officer 1972-75; fmr. Chair. Nat. Plant Food Inst., Pres. Animal Health Inst. and other orgs.; Dir. Public Service Electric and Gas Co., Continental Corpn.; Chair. Foundation of the New Jersey Inst. of Tech.; mem. Nat. Industrial Pollution Control Council 1970-; Trustee, Johns Hopkins Univ. *Leisure interests:* golf, bridge. *Address:* 345 Algonquin Road, Franklin Lakes, N.J. 07417, U.S.A. (Home).

SIWABESSY, Gerrit Agustinus; Indonesian radiologist and politician; b. 19 Aug. 1914, Saparua, Moluccas; s. of Enos Siwabessy and Naatje Manuhutu; m. 1st Reny Poetiray 1942 (divorced); 2nd Paulina Margaretha Putuhena (died 1968); five c.; ed. Univ. of Medicine, Jakarta and Univ. of London; Radiologist, Cen. Hosp., Surabaja 1942-45, Cen. Hosp., Malang 1945-47, Cen. Hosp., Jakarta 1948; Chief Doctor, Cen. Hosp., Jakarta, concurrently Doctor at Mil. Hosp. 1953; Head, Indonesian Inst. of Radiology 1954; Dir.-Gen. Indonesian Inst. of Atomic Energy 1958-73; Lecturer, Univ. of Indonesia 1956; mem. Nat. Council 1957; mem. Indonesian Nat. Planning Council 1959; Minister of Health 1966-78; del. to several int. radiology and atomic energy confs. *Address:* Kompleks R.S. Fatmawati no. 28, Rt. 003/Rw. 09, Jalan R.S. Fatmawati, Jakarta, Indonesia.

SIX, Robert Forman; American airline executive; b. 25 June 1907, Stockton, Calif.; m. Audrey Meadows 1961; ed. public schools in Stockton; Dist. Circulation Man. San Francisco Chronicle 1933-35; owner, Mouton & Six 1935-37; fmr. Pres. and Dir. Continental Airlines, Chair. and Chief Exec. 1975-; Chair. Continental Air Services 1966-; Hon. D.Sc. (Colo.). *Leisure interest:* ranching. *Address:* Continental Airlines, Los Angeles International Airport, Los Angeles, Calif. 90009, U.S.A.

SIYAD BARRE, Muhammad (see Siad Barre).

SIZOV, Gennadiy Fyodorovich; Soviet politician; b. 5 Feb. 1903; ed. K. A. Timiryazev Agricultural Inst.; Mem. CPSU 1926-; involved in state dairy cattle farming; head of agric. section of Novosibirsk District CPSU 1933-41; Soviet Army 1941-47; Second Sec. of Kurgan District Cttee., CPSU 1951-54; Chair. Exec. Cttee. Kurgan District Council of Working People's Deputies 1954-55; First Sec. Kurgan District Cttee., CPSU 1955-66; Cand. mem. Cen. Cttee. CPSU 1956-64, mem. 1964-66; Chair. Cen. Auditing Comm. of CPSU 1966-; Deputy to U.S.S.R. Supreme Soviet 1958-; Order of Red Banner of Labour, Order of Lenin (twice), Order of October Revolution, and other decorations. *Address:* Central Auditing Commission of CPSU, 4 Staraya ploshchad, Moscow, U.S.S.R.

SIZOVA, Alla Ivanovna; Soviet ballet dancer; b. 1939; ed. Leningrad School of Ballet; joined Leningrad Kirov Theatre of Opera and Ballet 1958-; honoured artist of the R.S.F.S.R. *Major roles:* Masha (Nutcracker), Mirta (Giselle), Pas de trois (Corsair), Katerina (Stone Flower), Waltz and Mazurka (Chopiniana), Pas de trois (Swan Lake), Aurora (Sleeping Beauty), Maria (Fountain of Bakhchisarai), Juliet (Romeo and Juliet). *Address:* State Kirov Academic Theatre of Opera and Ballet, ploshchad Iskusstv 1, Leningrad, U.S.S.R.

SJÖBERG, Alf Sven Erik; Swedish theatrical and film producer; b. 21 June 1903, Stockholm; m. 1st Marta Esktrom, 2nd Elsa Ahlsell; one s. one d.; ed. Royal Theatre School; actor, Royal Theatre 1925-29, producer 1930-; studied and acted abroad; Swedish radio 1952-54; produced Swedish films; Hon. Dr. Phil.; Grand Prix for Miss Julie, Cannes 1952; Litteris et Artibus 1951; St. Erik-Medaljen. *Theatre productions include:* works by Shakespeare, Strindberg, Ibsen, O'Neill, Brecht, Gombrowicz. *Leisure interests:* sailing, skiing. *Address:* Kungliga Dramatiska Teatern, Stockholm (Office); Andreég 5, Stockholm, Sweden (Home). *Telephone:* 614757 (Home).

SJOBERG, Sigurd A., B.S.; American space flights director; b. 9 Sept. 1919, Minneapolis, Minn.; s. of John and Anna Charlotte Sjoberg; m. Elizabeth Jane Ludwig 1944; three s.; ed. Univ. of Minnesota; Aeronautical engineer, NASA (then called Nat. Advisory Cttee. for Aeronautics) 1942, joined Manned Spacecraft Center (MSC) 1959, Deputy Dir. Flight Operations 1963-69, Dir. 1969-72, Deputy Dir. 1972-; U.S. Rep. to Féd. Aéronautique Int. (FAI); mem. American Inst. of Aeronautics and Astronautics (Houston Chapter), American Astronautical Soc., Nat. Acad. of Eng.; Hon. D.Sc. (De Pauw) 1972; MSC Superior Achievement Award 1966; NASA Exceptional Service Medal Jan. 1969, Oct. 1969; NASA Certificate of Commendation 1970; NASA D.S.M. 1971; Outstanding Achievement Award (Minnesota) 1973. *Publications:* Flight Control and Monitoring and Recovery 1963, Flying Qualities Associated with several types of Command Flight Control System 1959; and numerous NACA and NASA published reports. *Leisure interests:* golf, reading. *Address:* NASA-Johnson Space Center, Houston, Texas 77058, U.S.A. *Telephone:* 713-483-5309.

SKACHKOV, Semyon Andreyevich; Soviet engineer and politician; b. 1907; ed. Kharkov Engineering Inst.; worked at Kharkov Steam Locomotive Works, rising to be Chief Metallurgist 1930-41; worked in the Urals during the Second World War; later Dir. of Leningrad Diesel Engine Works, Nizhny-Tagil Works and Chelyabinsk Tractor Works; First Deputy Minister of Transport Machine Building Industry 1954-57; Chair. Kharkov Econ. Council 1957-58; Chair. State Cttee. for External Econ. Relations 1958-; Cand. mem. CPSU Cen. Cttee. 1961-71, mem. 1971-; Deputy to Supreme Soviet of the U.S.S.R. 1950-; Order of Lenin, four Orders of the Red Banner of Labour, Order of the Red Star, Order of the Patriotic War and other decorations. *Address:* State Committee for External Economic Relations, Ovchinnikovskaya naberezhnaya 18/1, Moscow, U.S.S.R.

SKAK-NIELSEN, Niels Verner, CAND. POL.; Danish international civil servant; b. 18 Feb. 1922, Århus; s. of Jens and Thora Skak-Nielsen; m. Birthe Reinwald 1947; two s. two d.; ed. Univ. of Copenhagen; joined Foreign Service 1947; Econ. Sec. of Danish Govt. 1949-51; Dep. Chief of Section, Ministry of Foreign Affairs 1951-53; Sec., Del. to NATO 1953-56; Chief of Section, Ministry of Foreign Affairs 1956-59; Counsellor, Del. to OEEC 1959-60; Minister and Perm. Rep. to EFTA and European Office of UN 1960-66, Amb. 1963-66; Asst. Under-Sec. of State for Econ. Affairs, Ministry of Foreign Affairs 1966; Chief Statistician of Denmark 1966-; mem. of Board of Chairmen of Econ. Council 1967-73. *Address:* Danmarks Statistik, Sejerøgade 11, Copenhagen Ø, Denmark. *Telephone:* 01-298222.

SKAUTRUP, J. Peter A., DR. PHIL.; Danish university professor; b. 21 Jan. 1896, Grove; s. of Niels Jensen Skautrup and Anne Kirstine Pedersen; m. Ester Bengtsson 1921; one s. three d.; ed. Københavns Universitet; Ed. at Great Danish Dictionary 1922-28; Tutor, Univ. of Århus 1928-34, Prof. of Scandinavian Languages 1934-66, Rector 1932-34, 1953-55; Chief Ed. at Jysk Ordbog; Commdr. Order of Dannebrog, Cross of Honour; several prizes; Hon. Dr. Phil. (Stockholm). *Publications:* Et Hardsysselmåi Vol. I 1927-29, Vol. II 1930, Hardiske mål Vol. I 1930, Vol. II 1942, Den jyske Lov 1941, Det danske sprogs historie Vols. I-IV 1944-68, Jysk Sinnelaw. Antologi. 1950, Bondesind 1950, Arv og gæld i ordenes samfund 1958, Jyske Lov 1964, Det danske sprogs historie, Registerbind 1970, Jysk Ordbog Vol. I 1-3 1970-74, Corpus Codicum Danicorum Medii Aevi Vol. IX 1972, X 1973, Dansk sprog og kultur. Udvalgte afhandlinger og artikler 1921-1971 1976. *Leisure interest:* gardening. *Address:* Stationsgade 23, 8240 Risskov, Denmark. *Telephone:* Århus 179514.

SKEAT, Theodore Cressy, B.A., F.B.A.; British papyrologist; b. 15 Feb. 1907, St. Albans, Herts.; s. of Walter William Skeat and Theodora Duckworth; m. Olive Martin 1942; one s.; ed. Whitgift School, Christ's Coll., Cambridge, and British School of Archaeology, Athens; Assistant Keeper, Dept. of Manuscripts, British Museum 1931-48, Deputy Keeper 1948-61 , Keeper 1961-72; Cromer Greek Prize 1932. *Publications:* Fragments of an Unknown Gospel (with H. I. Bell) 1935, Scribes and Correctors of the Codex Sinaiticus (with H. J. M. Milne) 1938, The Reigns of the Ptolemies 1954, Papyri from Panopolis 1964, Catalogue of Greek Papyri in the British Museum 1974. *Address:* 63 Ashbourne Road, London, W5 3DH, England. *Telephone:* 01-998 1246.

SKEGGS, Leonard Tucker, Jr., A.B., M.S., PH.D.; American research biochemist; b. 9 June 1918, Fremont, Ohio; s. of late Leonard T. Skeggs, Sr. and Frances E. Wolfe; m. Jean Hossel 1941; one s. two d.; ed. Youngstown State Univ. and Western Reserve Univ. (now Case Western Reserve Univ.). U.S. Navy 1943-46; Research Fellow in Clinical Biochem., Western Reserve Univ. 1948-49, Instructor in Biochem. 1950-51, Senior Instructor in Biochem. (Dept. of Pathology) 1951-52, Asst. Prof. 1952-59, Assoc. Prof. 1959-69, Prof. 1969-; Chief of Biochem. Section and Co-Dir. Hypertension Research Laboratory, Veterans' Admin. Hospital, Cleveland, Ohio 1947-68, Dir., Principal Investigator 1968-; Medical Investigator in Hypertension, Veterans' Admin. 1976-; mem. American Soc. of Biological Chemists, American Chemical Soc., Board of Editors Circulation Research; Fellow, American Assn. of Clinical Chemists, New York Acad. of Sciences, American Heart Assn. Council on High Blood Pressure; mem. American Heart Assn. Council on Basic Sciences; Hon. D.Sc. (Youngstown) 1960; Arthur S. Flemming Award 1957, Van Slyke Medal 1963, American Chemical Soc. Award for Chemical Instrumentation 1966, Ames Award 1966, Middleton Award 1968, Career Service Award (Greater Cleveland Growth Assn.) 1968, Stouffer Award 1968; Bendetti-Pichler Award in microchem. 1971; John Scott Award for invention of the Auto Analyzer 1973, Cleveland Award, Int. Soc. for Artificial Organs 1978. *Major fields of work include:* Hypertension, automatic chemical analysis, multiple automatic analysis; 79 publs. and 20 patents. *Leisure interests:* hiking, backpacking, breeding Arabian horses. *Address:* Veterans' Administration Medical Center, 10701 East Boulevard, Cleveland, Ohio 44106 (Office); 10212 Blair Lane, Kirtland, Ohio 44094, U.S.A. (Home). *Telephone:* (216) 791-3800 (Office); (216) 942-4527 (Home).

SKEMPTON, Alec Westley, D.SC., F.I.C.E., F.G.S., F.R.S.; British professor of engineering; b. 4 June 1914, Northampton; s. of A. W. Skempton and Beatrice Edridge Payne; m. Mary Wood 1940; two d.; ed. Northampton Grammar School and Univ. of London; at Building Research Station 1936-46; Univ. Reader in Soil Mechanics, Imperial Coll., Univ. of London 1946-54, Prof. of Soil Mechanics 1955-57, Prof. of Civil Eng. 1957-; Lecturer in Copenhagen, Paris, Harvard Univ., Univs. of Illinois, Stockholm, Madrid, Florence, Tokyo; Special Lecturer, Architectural Assn. 1948-57; Visiting Lecturer, Cambridge Univ. School of Architecture 1962-66, Edinburgh Univ. School of Architecture 1968; Hitchcock Foundation Prof. at Univ. of Calif., Berkeley 1978; Chair. Joint Cttee. on Soils, Ministry of Supply and Road Research Board 1954-59; Pres. Int. Soc. Soil Mechanics and Foundation Eng. 1957-61; mem. Council Inst. of Civil Eng. 1949-54, Vice-Pres. Inst. of Civil Eng. 1974-76; mem. Cathedrals Advisory Cttee. 1964-69, Council N.E.R.C. 1973-76; Consultant to Binnie & Partners, John Mowlem & Co. Ltd.; Fellow, Royal Soc. 1961; Foreign Assoc. U.S. Nat. Acad. of Eng. 1976; Hon. D.Sc. (Durham) 1968; James Alfred Ewing Medal 1968, Lyell Medal 1972, Dickinson Medal 1974. *Publications:* Over 90 papers on soil mechanics, geology and history of civil engineering; William Jessop, Engineer (Co-author). *Leisure interests:* architectural travel, music. *Address:* Department of Civil Engineering, Imperial College, London, S.W.7; 16 The Boltons, London, S.W.10, England. *Telephone:* 01-589 5111 (Office); 01-370 3457 (Home).

SKIBINE, George; Russian-born American dancer and choreographer; b. 17 Jan. 1920; m. Marjorie Tallchief (*q.v.*) 1947; two s.; ed. Lycée Albert de Mun; joined Ballet Russe de Monte Carlo 1938, Ballet Theater (New York) 1940; Master Sergeant, U.S. Military Intelligence during World War II; First Dancer and Choreographer, Ballets du Marquis de Cuevas 1947-57; First Dancer and Choreographer, Paris Opera Ballet 1957, Ballet Master and Dir. 1958-62, Guest Artist and Choreographer 1962-64; Artistic Dir. Rebekah Harkness Foundation and Dir. Harkness Ballet Co., New York 1964-69; Artistic Dir. Dallas Civic Ballet 1969-; Visiting Prof. North Texas State Univ. 1970-; Grand Prix de la Critique 1958, Halia Prize 1962, Prix Diaguilef Inst., Paris 1964; Bronze Star (U.S.), Nisham Iftikar (Tunisia), Officier, Ordre des Arts et des Lettres, Chevalier du Merit culturel. *Ballets:* Monte Carlo: Tragedy in Verona; Marquis de Cuevas: Annabel Lee, Prisoner of the Caucasus, Achille, Ange Gris, Idylle, Pastorale; Opéra Comique: Concerto; Paris Opera: Daphnis and Chloé, Atlantide, La Péri. *Address:* 3601 Rawlins, Dallas, Tex. 75219 (Office); 7260 Kenny Lane, Dallas, Tex. 75230, U.S.A. (Home).

SKIBNIEWSKA, Halina, D.ENG.; Polish architect and town planner; b. 10 Jan. 1921, Warsaw; d. of Wacław and Ewelina (Kuczowska) Erentz; m. Zygmunt Skibniewski 1951; ed. Warsaw Technical Univ.; worked at Bureau for Rebuilding of the Capital, Warsaw 1945-47; Asst. Warsaw Technical Univ. 1945-54, Lecturer 1954-62, Acting Prof. 1962-71, Prof. Extraordinary 1975-; Chief Architect, Design Office 1953-; Deputy to Seym 1965-, Vice-Marshal of Seym Feb. 1971-; Chair. Cen. Board of Soc. for Polish-French Friendship 1972-; Deputy Chair. Council for Family Affairs attached to Council of Ministers 1978-; chief works include schools, housing estates and Nat. Theatre, Warsaw; mem. Assn. of Architects of Polish Republic 1951-, Assn. of Polish Urban Planners; Hon. Prize of Polish Architects Assn. 1978; Commdr. and Knight's Cross, Order of Polonia Restituta, Grand Officier Légion d'honneur 1972, State Prize 1st Class 1972, 1976, Cross of Order of Labour (2nd Class) 1974, Medal of 30th Anniversary of People's Poland 1974 and other decorations. *Publications:* Dziecko w mieszkaniu i osiedlu 1969, Wyniki badań w zakresie budownictwa w Polsce dla ludzi z ciężkim uszkodzeniem narządów ruchu 1968, Rodzina a mieszkanie 1974, Koncepcja mieszkań dla osòb kalekich. *Address:* Seym PRL, Ul. Wiejska 2/6, 00-489 Warsaw; Ul. Frascati 14m. 4, Warsaw, Poland. (Home).

SKILLING, Hugh Hildreth, A.B., S.M., PH.D.; American professor of electrical engineering; b. 2 Sept. 1905, San Diego, Calif.; s. of William Thompson and Bird Hildreth Skilling; m. Hazel Dillon 1932; one d.; ed. Stanford Univ. and Mass. Inst. of Technology; Construction Dept. Southern Calif. Edison Co., Los Angeles 1927-29; Instr. on Electrical Eng., Stanford Univ. 1929, 1931-35, Asst. Prof. 1935-39, Assoc. Prof. 1939-42, Prof. 1942-, acting Head of Dept. 1941-44, Exec. Head 1944-64, acting Dean of Eng. 1944-46, Assoc. Dean 1952-54; Lecturer on electric power transmission, M.I.T. 1934; Dir. Electrical Eng. War Research, and Electrical Eng.,

War Training, Stanford Univ. 1941-45; Scientific Observer, atomic bomb tests, Bikini Atoll 1946; Visiting Lecturer in electrical eng. Cambridge Univ. 1951-52, for Consejo Superior de Investigaciones Científicas, Madrid 1952, Univ. of Chile 1957; Consultant Dartmouth Coll. and Univ. of Hawaii 1958; mem. review team, Univ. of the Philippines 1953, King's Coll., Cambridge 1951-; Consultant, Univ. of Alaska 1964, Univ. of Washington 1966; Visiting Prof. Electrical Eng., Cambridge Univ. 1965; awarded Medal for Educ. Inst. of Electrical and Electronics Engineers, New York 1965. *Publications:* Transient Electric Currents 1937, Fundamentals of Electric Waves 1942, Prelude to Bikini 1947, Exploring Electricity 1948, Electric Transmission Lines 1951, Electrical Engineering Circuits 1957, A First Course in Electromechanics 1960, Electromechanics 1962, Do you Teach? 1969, Electric Networks 1974, Teaching—Engineering, Science, Mathematics 1977, several works trans. into Spanish, Russian, Polish, Vietnamese and Thai. *Leisure interest:* writing. *Address:* 672 Mirada Road, Stanford, California, U.S.A. *Telephone:* 323-5638.

SKINNER, Burrhus Frederic, PH.D., SC.D., LITT.D., L.H.D., L.L.D., D.SC.S.; American professor of psychology; b. 20 March 1904, Susquehanna, Pa.; s. of William and Grace Burrhus Skinner; m. Yvonne Blue 1936; two d.; ed. Hamilton Coll. and Harvard Univ.; with Nat. Research Council, Harvard 1931-33; Jr. Fellow, Harvard 1933-36; Instructor, Minnesota Univ. 1936-37, Asst. Prof. 1937-39, Assoc. Prof. 1939-45 (war research 1942-43); Prof. and Chair. Dept. of Psychology, Indiana Univ. 1945-48; Prof., Harvard Univ. 1948-57, Edgar Pierce Prof. 1958-74, Edgar Pierce Prof. Emer. 1974-; Fellow, American Psychological Assn., American Philosophical Soc., Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Swedish Psychological Soc., British Psychological Soc., Spanish Psychological Soc., Royal Soc. of Arts; numerous hon. degrees; Nat. Science Medal 1968, Gold Medal, American Psychological Assn. 1971, Joseph Kennedy Award 1971. *Publications:* Behavior of Organisms 1938, Walden Two 1948, Science and Human Behavior 1953, Verbal Behavior 1957, Schedules of Reinforcement 1957 (with C. B. Ferster), Cumulative Record 1959, 1961, Analysis of Behavior (with James G. Holland) 1961, The Technology of Teaching 1967, Contingencies of Reinforcement: A Theoretical Analysis 1969, Beyond Freedom and Dignity 1971, About Behaviorism 1974, Particulars of My Life 1976, Reflections on Behaviorism and Society 1978, The Shaping of ■ Behaviorist 1979. *Leisure interest:* music. *Address:* Department of Psychology and Social Relations, Harvard University, William James Hall, 33 Kirkland Street, Cambridge, Mass. (Office); 11 Old Dee Road, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 864-0848 (Home).

SKINNER, Hon. James John, Q.C.; Irish-born judge; b. 24 July 1923; ed. Trinity Coll., Dublin and King's Inns, Dublin; called to the Irish Bar 1946, joined Leinster Circuit; called to the English Bar, Gray's Inn 1950, to the Northern Rhodesia Bar 1951; Q.C., N. Rhodesia 1964, mem. Parl. for Lusaka East 1964-68; Minister of Justice, Lusaka 1964-65; Attorney-Gen. 1965-69; Minister of Legal Affairs 1967-68; Chief Justice of Zambia March-Sept. 1969; Chief Justice of Malawi 1970-; Grand Commdr., Order of Menelik II (Ethiopia) 1965. *Address:* c/o The High Court of Malawi, P.O. Box 30244, Chichiri, Blantyre 3, Malawi.

SKLÁDAL, Josef; Czechoslovak physician and physiologist (retd.); b. 16 March 1898, Vienna, Austria; ed. Prague and Paris Univs.; Asst. at the Medical Faculty, Univ. of Paris and Brno and Prague Physiological Insts.; Lecturer in Gen. and Experimental Pathology 1936; Head of Chest Dept., Bulovka Hospital, Prague 1937; Lectured Royal Society of Medicine and Physiological Society, London 1941, Palais de la Découverte, Paris 1947, Moscow 1957; titular mem. Int. Union against Tuberculosis; fmr. Ed. Rozhledy v tuberkulose; Chair. Czechoslovak Health Council in London during Second World War; Prof. of Clinical Physiology, Charles Univ. Prague 1945-56, of Pathological Physiology 1956-70; Dir. Research Inst. of Clinical Physiology 1968; Pres. Czechoslovak Pneumological and Phthisiological Soc. 1946; special mem. Czechoslovak Acad. of Sciences 1951; mem. Scientific Council, Ministry of Health 1953; Order of Labour 1968. *Publications:* The Pleurosubpleural Zone 1942, Syndrome corticopleural, Quelques aspects nouveaux de l'exploration physique du poumon 1947, La cinédensigraphie du diaphragme chez l'homme 1970 (Traité de biologie appliquée); papers on postural function of the human diaphragm 1969, 1970, 1971, 1975, 1976, 1977, The Human Diaphragm From the Point of View of the Normal and Clinical Physiology 1976. *Address:* Londýnská 20, Prague 2, Czechoslovakia. *Telephone:* 250638 (Home).

SKOBELTSYN, Dmitriy Vladimirovich; Soviet nuclear and cosmic ray physicist; b. 24 Nov. 1892, St. Petersburg (now Leningrad); ed. Petrograd (now Leningrad) Univ.; worked at the Leningrad Polytechnic and Physico-Technical Inst., Moscow Univ. 1940-60; mem. U.S.S.R. Acad. of Sciences 1946-; Dir. of the Inst. of Physics of the Acad. of Sciences of the U.S.S.R. 1951-71; Chair. of the Cttee. for the award of Int. Lenin Peace Prizes 1950-74; mem. Comm. for Foreign Affairs of the U.S.S.R. Supreme Soviet; Deputy to U.S.S.R. Supreme Soviet 1954-74; State prizewinner 1951; awarded Order of Lenin (six times), Vavilov Gold Medal of the Acad. of Sciences of the U.S.S.R. 1952, Hero of Socialist Labour, Order of Red Banner of Labour (twice); Mendeleyev Prize of U.S.S.R. Acad. of Sciences 1936. *Publications:* Research into Recoil Effect of Scattered Gamma Rays 1925, Cosmic Rays 1927-29, 1936, Nature of Cosmic Radiation 1950, The Paradox of Twins in the Theory of Relativity 1966, etc. *Address:* Academy of Sciences of the U.S.S.R., 14 Leninsky prospekt, Moscow, U.S.S.R.

SKÖLD, Per; Swedish business executive; b. 29 Dec. 1922, Stockholm; s. of late Per Edvin Sköld and Edit Sköld; m. Anna-Christina Neumuller; two s. one d.; ed. Royal Swedish Coll. of Forestry; Dist. Forest Officer, Swedish Forest Service 1956, Chief District Forest Officer 1961, Dir. in Chief 1964, Dir.-Gen 1965-69; Vice-Pres. Statsföretag AB 1970, Pres. 1971-. *Address:* Statsföretag AB, Box 7827, Hamngatan, 6, 103 97 Stockholm 40; Grävlingsvägen 35, 161 37 Bromma, Sweden (Home). *Telephone:* (08) 24-29-00 (Office); (08) 25-93-60 (Home).

SKOLIMOWSKI, Jerzy; Polish film director; b. 5 May 1938, Warsaw; m. Joanna Szczerbic; ed. Warsaw Univ. and State Superior Film School, Łódź; wrote scripts for Wajda's Innocent Sorcerers, Polanski's Knife in the Water and Łomnicki's Poślizg; directed, designed, scripted, edited and appeared in Rysopis 1964, scripted, directed and appeared in Walkover 1965; scripted and directed Barrier 1966; directed Le Départ 1967; scripted, directed and appeared in Hands Up 1967; directed Adventures of Gerard 1969; Grand Prix for Barrier Int. Film Festival, Bergamo 1966, Silver Palm for Scream, Cannes Film Festival 1978. *Films:* Rysopis (Identification Marks: None) 1964, Walkover 1965, Bariera (Barrier) 1966, Le Départ 1967, Ręce do góry (Hands Up) 1967, Dialogue 20-40-60 1968, Adventures of Gerard 1969, The Deep End 1971, King, Queen, Knave 1972, Lady Frankenstein (or Terminus) 1976, The Shout 1978. *Publications:* Poetry Gdzieś blisko siebie (Somewhere close to oneself), Play Ktoś się utopił (Somebody got drowned). *Address:* c/o Film Polski, ul. Mazowiecka 6/8, 00-048 Warsaw, Poland.

SKOOG, Folke (Karl), PH.D.; American plant physiologist; b. 15 July 1908, Sweden; s. of Karl (G.) Skoog and Sigrid (Person) Skoog; m. Birgit Anna Lisa Bergner 1947; one d.; ed. California Inst. of Technology and Univ. of California; Instructor and Research Assoc., Harvard Univ. 1937-41; Asst. Prof., Assoc. Prof. of Biology, Johns Hopkins Univ. 1941-44; Tech. Rep. (Chemist), U.S. Army 1944-46; Assoc. Prof. of Botany, Univ. of Wis. 1947-49, Prof. of Botany 1949-; mem. American Soc. of Plant Physiologists (Vice-Pres. 1956-57, Pres. 1957-58), Botanical Soc. of America (Chair. Physiology Section 1954-55), Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Soc. of Gen. Physiologists (Pres. 1957-58), Soc. of Devt. Biology (Pres. 1970-71), Int. Plant Growth Substances Assn. (Vice-Pres. 1976-79), Royal Soc. of Sciences, Sweden, Royal Acad. of Sciences, Sweden, Akad. Leopoldina, Germany; Hon. Ph.D. (Lund, Sweden); Stephen Hales Medal of American Soc. of Plant Physiologists 1955, Certificate of Merit of Botanical Soc. of America 1956, Reid Barnes Award, American Soc. of Plant Physiologists 1970. *Publications:* Plant Growth Substances (Editor) 1951; author and co-author of many scientific articles on plant growth, auxins and cytokinins 1933-79. *Leisure interests:* farming, sport. *Address:* Institute of Plant Development, Birge Hall, University of Wisconsin, Madison, Wis. 53706 (Office); 2134 Chamberlain Avenue, Madison, Wis. 53705, U.S.A. (Home). *Telephone:* (608) 262-2790 (Office); (608) 233-1948 (Home).

SKRINSKY, Aleksandr Nikolayevich, D.SC.; Soviet physicist; b. 15 Jan. 1936, Orenburg; ed. Moscow State Univ.; Research Worker, Head of Laboratory, Inst. of Nuclear Physics, Siberian Dept., U.S.S.R. Acad. of Sciences 1959-; Prof. Novosibirsk Univ. 1967; corresp. mem. U.S.S.R. Acad. of Sciences 1968-70, mem. 1970-; Lenin Prize 1967; Order of Red Banner and other decorations. *Publications:* scientific works in the field of speed technology and nuclear physics. *Address:* Akademgorodok, Novosibirsk, U.S.S.R.

SKROWACZEWSKI, Stanisław; Polish conductor and composer; b. 3 Oct. 1923, Lwów; s. of Pawel and Zofia (Karszniewicz) Skrowaczewski; m. Krystyna Jarosz 1956; two s. one d.; ed. Lwów and Cracow; Conductor, Wrocław Philharmonic Orchestra 1946-47; further composition studies with Nadia Boulanger and P. Klecki, Paris 1947-49; Artistic Dir. and First Conductor, Silesian Philharmonic Orch. 1949-54; First Conductor, Cracow Philharmonic Orch.

1955-56; Dir. Nat. Philharmonic Orch., Warsaw 1957-59; Musical Dir. Minnesota Orchestra 1960-79; tours in Europe, N. and S. America, Israel; D.H.L. h.c. (Hamline Univ., St. Paul, Minnesota) 1963; D.Mus. h.c. (Macalester Coll., St. Paul, Minn.) 1973; State Prize, First Prize, Int. Conductor's Competition, Rome 1956, Third Prize, Kennedy Center Friedheim Award Competition (for Ricercari Notturni) 1978. *Compositions include:* Symphony for String Orchestra, three other symphonies, Muzyka Nocą (Music by Night, suite of nocturnes), four string quartets, two overtures, Cantique des Cantiques (voice and orch.), Prelude, Fugue, Post-Ludium (orch.), English Horn Concerto 1969, Ricercari Nolturni (orchestral), opera, ballet, film and theatre music. *Address:* Orchestra Hall, 1111 Nicollet Mall, Minn. 55403, U.S.A.

SKRYABIN, Georgiy Konstantinovich; Soviet biochemist and microbiologist; b. 17 Sept. 1917, Petrograd (now Leningrad); s. of K. I. and E. M. Skryabin; m. I. B. Skryabin; two s.; ed. Kazan Veterinary Inst. and Moscow Veterinary Acad.; Soviet Army 1943-46; Senior Research Worker, Head of Dept., Inst. of Microbiology, U.S.S.R. Acad. of Sciences 1949-62, Dir. Inst. of Biochem. and Physiology of Micro-organisms, Acad. of Sciences 1962-67, Dir. Scientific Centre of Biological Investigations, Acad. of Sciences 1967-74; Head of Inst. of Biochem. and Physiology of Micro-organisms; Chief Scientific Sec., U.S.S.R. Acad. of Sciences 1971-, corresp. mem. 1968; Vice-Pres. All-Union Microbiological Soc.; mem. Acad. of Sciences of D.D.R., Bulgaria, Leopoldina, Saxon, Czechoslovakia, New York; mem. CPSU 1947-; State Prize 1971, Order of Lenin (twice) and other decorations. *Address:* c/o Institute of Biochemistry and Physiology of Micro-organisms, Puschino-on-Oka, Moscow region 142292, U.S.S.R.

SKWIRZYŃSKI, Tadeusz; Polish politician; b. 29 Sept. 1923, Iwonicz, Krosno District; ed. Warsaw Univ.; Soldier of Peasants' Battalions, Rzeszów District, organizer of underground educ. 1939-45; with CRS "Samopomoc Chłopska" (Agricultural Centre of Cooperative "Peasants' Self-Help") 1948-53; Head of Dept., Cen. Board of Corn Plants 1953-57, Deputy Dir. of Investment Affairs 1957-58; Dir. Union of Plants of Fodder Industry (Bacutil) 1958-67; Under-Sec. of State for Agricultural Products, Ministry of Food Industry and Purchase 1967-69; Vice-Chair. Planning Comm. attached to Council of Ministers 1969-71; Chair. Presidium of Voivodship Nat. Council, Bydgoszcz 1971-73; Minister of Forestry and Wood Industry 1973-; mem. Presidium of Chief Cttee. of United Peasants' Party; Deputy to Seym (Parl.) 1972-; Knight's, Officer's and Commdr.'s Cross, Order of Polonia Restituta, Gold and Silver Cross of Merit and other decorations. *Address:* Ministerstwo Leśnictwa i Przemysłu Drzewnego, Ul. Wawelska 52/54, 02-067 Warsaw, Poland.

SLAOUI, Driss; Moroccan politician and banker; Minister of Commerce and Industry 1959-61; Dir. of Royal Cabinet 1962; Minister of Public Works 1962-3; Minister of Finance 1963-64, of Nat. Economy and Agric. Nov. 1963-64; Gov. Banque du Maroc 1964-68; Minister of Justice 1968-69; Dir. of the Royal Cabinet 1969-71; Perm. Rep. to UN 1974-76; Rep. to Int. Court of Justice in Western Sahara Case June-July 1975. *Address:* c/o Ministry of Foreign Affairs, Rabat, Morocco.

SLATER, Edward Charles, F.R.S., M.SC., PH.D., SC.D.; Australian professor of physiological chemistry; b. 16 Dec. 1917, Melbourne; s. of Edward Brunton Slater and Violet Podmore; m. Marion Winifred Hutley 1940; one d.; ed. Univs. of Melbourne and Cambridge, U.K.; Biochemist, Australian Inst. of Anatomy, Canberra 1939-46; Research Fellow, Molteno Inst., Cambridge Univ. 1946-55; Prof. of Physiological Chem., Dir. Lab. of Biochem., Univ. of Amsterdam, Netherlands 1955-; mem. Royal Netherlands Acad. of Science and Letters, Hollandsche Maatschappij van Wetenschappen; Hon. mem. American Soc. of Biological Chemists, Acad. Nacional de Ciencias Exactas, Fisicas y Naturales, Argentina, Japanese Biochem. Soc.; Foreign Corresp., Acad. Royale de Médecine, Belgium; Foreign mem. Royal Swedish Acad. of Sciences. *Publications:* about 300 contributions to learned journals. *Leisure interests:* yachting, skiing. *Address:* Elger 9, Monnickendam, Netherlands. *Telephone:* 020-522-2150 (Office); 02995-1450 (Home).

SLATER, James Derrick, F.C.A.; British company director; b. 13 March 1929, Wirral, Cheshire; s. of Hubert and Jessie Slater; m. Helen Wyndham Goodwyn 1965; two s. two d.; ed. Preston Manor County School; Dir., A.E.C. Ltd. 1959; Deputy Sales Dir., Leyland Motor Corpn. 1963; acquired with associates, H. Lotery and Co., Ltd., which was then renamed Slater, Walker Securities Ltd., and appointed Chair. and Man. Dir. 1964-72, Chair., Chief Exec. Officer 1972-75. *Publications:* Return to Go (autobiog.) 1977, Golden Rod (children's book) 1978. *Leisure interests:* chess, backgammon, reading, golf, tennis. *Address:* High Beeches, Blackhills, Esher, Surrey, England. (Home).

SLATER, Joseph Elliott; American administrator; b. 17 Aug. 1922, Salt Lake City, Utah; m.; two c.; ed. Univ. of California; Naval Reserve Officer, Mil. Govt. Planning Officer, Berlin, London and Paris 1943-46; U.S. Sec. of Econ. Directorate, Allied Control Comm. for Germany; Asst. U.S. Sec. of Allied Control Council Econ. and Financial Affairs 1945-48; mem. UN Affairs Planning Staff, Dept. of State, Wash. 1949; Sec.-Gen. Allied High Comm. for Germany, Bonn 1949-52; Exec. Sec. Office of U.S. Special Rep. in Europe, U.S. Sec. to NATO and mem. U.S. Del. to OEEC 1952; Chief Economist, Creole Petroleum Corpn., Caracas 1954-57; Sec. to President's Comm. on Foreign Assistance 1959; Assoc. Dir., Int. Affairs Program, Program Officer (Office of Int. Relations), Ford Foundation 1957-67; Asst. Man. Dir. Devt. Loan Fund 1960-61, and Deputy Asst. Sec. of State on Educ. and Cultural Affairs 1961-62; Pres. Salk Inst. 1967-72; Pres. Aspen Inst. for Humanistic Studies 1969-; Pres. Anderson Foundation 1969-72; Special Fellow, Salk Inst.; Consultant to Int. Affairs Program, Ford Foundation; Visiting Prof. Univ. of Colorado; mem. Council on Foreign Relations, New York, Center for Inter-American Affairs, New York Inst. for Strategic Studies, London Int. Affairs Cttee. of Nat. Planning Assen.; UN Policy Studies Group and Environment Group; Trustee of Inst. of Religion and Mental Health, Aspen Center of Contemporary Art, Aspen Center for Physics, Int. Broadcast Inst., World Affairs Council, San Diego TIAA-CREF, Acad. for Educ. Devt., Int. Inst. for Environmental Affairs, Int. Assen. for Cultural Freedom; Dir. Overseas Devt. Council, American Council on Germany; Hon. LL.D. (Univ. of Denver, Colorado Coll., Kyung Hee Univ., Korea, Univ. of N.H.); Commander's Cross, German Order of Merit. *Address:* 717 Fifth Avenue, New York, N.Y. 10022 (Office); 870 UN Plaza, New York, N.Y. 10017, U.S.A. (Home). *Telephone:* (212) 759-1053.

SLATER, Layton Ernest Alfred; South African printing and publishing executive; b. 27 Jan. 1916, Johannesburg; s. of Joseph Slater and Marguerita Hildebrandt; m. Elizabeth Anne Ledger 1940; two d.; ed. St. Aidan's Coll., Grahamstown; Mil. service Middle East and Italy 1940-45; Chair. Nat. Industrial Council of the Printing and Newspaper Industry of South Africa 1966-75; Chair. Argus Printing & Publishing Co. Ltd. 1967- (proprietors of seven daily and many weekly newspapers in South Africa); Life Vice-Pres. Newspaper Press Union of South Africa, Pres. 1972-73; Vice-Chair. South Africa Nature Foundation; Chair. Cen. News Agency Investments Ltd.; Steward, Turfontein Racing Clubs. *Leisure interests:* golf, reading, fishing. *Address:* 11 Pinelands, First Road, Hyde Park, Johannesburg 2196, South Africa. *Telephone:* 42-6622.

SLATTERY, Rear-Admiral Sir Matthew Sausse, K.B.E., C.B., F.R.AE.S.; British naval officer (retd.) and company director; b. 12 May 1902, Chislehurst, Kent; s. of H. F. Slattery and Agnes Cuddon; m. Mica Mary Swain 1925; two s. one d.; ed. Stonyhurst Coll., and R.N. Colls. of Osborne and Dartmouth; joined R.N. 1916; Dir. of Air Material, Admiralty 1939-41; in command H.M.S. Cleopatra and Danae 1941-42; Dir.-Gen. Naval Aircraft Devt. and Production (Ministry of Aircraft Production) 1941, and Chief Naval Rep. 1943; Vice-Controller (Air) and Chief of Naval Air Equipment (Admiralty) and Chief Naval Rep. Supply Council (Ministry of Supply) 1945-48; retd. from R.N. with war service rank of Rear Adm. 1948; Man. Dir. Short Bros. & Harland Ltd. 1948-52, Chair. and Man. Dir. 1952-60; Chair. S.B. Realisations Ltd. 1952-60, Bristol Aircraft Ltd. 1957-60; Dir. Bristol Aeroplane Co. Ltd. 1957-60; Special Adviser to Prime Minister on Transport of Middle East Oil 1957-59; Chair. BOAC 1960-63, BOAC/Cunard 1962-63; Dir. (fmr. Chair.) R. & W. Hawthorn, Leslie & Co. Ltd.; Hon. D.Sc.; Legion of Merit (U.S.A.). *Leisure interests:* living in the country, gardening. *Address:* Harvey's Farm, Warninglid, Sussex, England. *Telephone:* Warninglid 291.

SLAVSKY, Yefim Pavlovich; Soviet politician; b. 7 Nov. 1898; ed. Moscow Inst. of Non-Ferrous Metals and Gold; Engineer, Workshop Man., Chief Engineer, Dir., Electrozinc Plant, Ordjonikidze 1938-40; Dir. Dnieper Aluminium Plant 1940, Urals Plant 1941-45; Deputy People's Commissar of Non-Ferrous Metallurgy 1945-46; at staff of U.S.S.R. Council of Ministers 1946-53; Deputy Minister, First Deputy Minister of Medium Machine Building 1953-57, Minister 1957-63, 1965-; mem. CPSU 1918-; mem. CPSU Cen. Cttee. 1961-; Deputy to U.S.S.R. Supreme Soviet 1958-; Chair. State Production Cttee. on Medium Machine Building 1963-65; State Prize (twice); Hero of Socialist Labour, Order of Lenin (eight times), Hammer and Sickle Gold Medals (3), Order of October Revolution and other decorations. *Address:* Ministry of Medium Machine Building, Council of Ministers, Moscow, U.S.S.R.

SLAYTON, Donald K.; American astronaut and space flight administrator; b. 1 March 1924, Sparta, Wis.; m. Marjorie Lunney; one s.; ed. Univ. of Minnesota and Michigan Tech. Univ.; entered U.S. Air Force 1942, pilot 1943; flew 56 combat missions, Second World War; aeronautical engineer, Boeing Co., Seattle, Washington D.C. 1949-51; recalled to 12th Air Force H.Q. 1951; attended Air Force Flight Test Pilot School, Edwards Air Force Base, Calif. 1955, experimental test pilot, Edwards Air Force Base 1956-59; selected by NASA as astronaut 1959; Chief Astronaut 1962-63; Asst. Dir. Flight Crew Operations 1963-66, Dir. 1966-74; mem. docking module pilot Joint U.S.-U.S.S.R. Soyuz-Apollo Manned Space Flight July 1975; Man. Space Shuttle Approach and Landing Test 1975-, Space Shuttle Orbital Flight Tests; Fellow, Soc. of Experimental Test Pilots; mem. American Inst. of Aeronautics and Astronautics, American Astronautical Soc.; NASA Distinguished Service Medal 1965. *Address:* NASA Johnson Space Center, Houston, Tex. 77058, U.S.A.

SLICHTER, Charles Pence, B.A., M.A., PH.D.; American professor of physics; b. 21 Jan. 1924, Ithaca, N.Y.; s. of Sumner Huber Slichter and Ada Pence Slichter; m. Gertrude Thayer Almy 1952 (divorced 1977); three s. one d.; ed. Brown and Nichols School, Cambridge, Mass. and Harvard Univ.; Instructor, Univ. of Ill. 1949-51, Asst. Prof. of Physics 1951-54, Assoc. Prof. 1954-55, Prof. 1955-, mem. Center for Advanced Study, Univ. of Ill. 1968-; Morris Loeb Lecturer, Harvard Univ. 1961; mem. President's Science Advisory Cttee. 1965-69, Cttee. on the Nat. Medal of Science 1969-74, President's Cttee. on Science and Tech. 1976-; Alfred Sloan Fellow 1957-63; mem. Nat. Acad. of Sciences 1967, American Acad. of Arts and Sciences 1969, Corpn. of Harvard Univ. 1970, American Philosophical Soc. 1971, Nat. Science Board 1975-, Board of Dirs. Polaroid Corpn. 1975-; Langmuir Prize of American Physical Soc. 1969. *Publications:* Principles of Magnetic Resonance 1963, 1978; articles on solid state physics, chemical physics and magnetic resonance. *Address:* 311 Physics Building, University of Illinois, Urbana, Ill. 61801 (Office); 705 W. Church, Champaign, Ill. 61820, U.S.A. (Home). *Telephone:* (217) 333-3834 (Office); (217) 352-8255 (Home).

SLIM, Taieb; Tunisian politician and diplomatist; b. 19 Jan. 1919, Tunis; s. of Abed Slim and Habiba Beyram; m. Leyla Zaouche 1959; two d.; ed. Tunis Lycée and Univ. of Paris; mem. Néo-Destour Party, detained 1941-43; Arab Maghreb Bureau, Cairo 1946-49; Head, Tunisian Office, Cairo 1949, established Tunisian offices, New Delhi, Jakarta, Karachi; Head, Foreign Affairs, Presidency of Council of Ministers 1955-56; Amb. to U.K. 1956-62, also accred. to Denmark, Norway and Sweden 1960-62; Perm. Rep. to UN 1962-67, concurrently Amb. to Canada; Sec. of State, Personal Rep. of Pres. 1967-70; mem. Nat. Assembly 1969; Amb. to Morocco 1970-71; Minister of State 1971-73; mem. Political Bureau Destour Socialist Party 1970-74; Amb. and Perm. Rep. to UN, Geneva 1973-74; Amb. to Canada 1974-76; Minister of State 1976-77. *Leisure interest:* sailing. *Address:* c/o Office of the Minister of State, Tunis, Tunisia.

SLIPYJ-KOBERNICKYJ-DYČKOWSKY, H.E. Cardinal Joseph; Vatican ecclesiastic; b. 17 Feb. 1892, Zazdrist, District of Terebovlia, Western Ukraine; s. of Ivan Kobernyckyj Slipyj and Anastasia Dyčkowska; ed. Univ. of Innsbruck and Gregorianum, Angelicum and Oriental Inst., Rome; ordained 1917; Prof. of Dogmatic Theology 1922; Rector Theological Seminary, Lvov 1925; Pres. Theological Scientific Soc. 1923; founded and edited Bohovlia; Rector of Theological Acad. 1929; Titular Archbishop of Serre 1939; Archbishop of Lvov and Metropolitan of Halyc 1944; arrested and deported to Siberia 1945; released to Vatican City 1963; recognized as Major Archbishop of Ukrainian Rite Catholic Church 1963; founded Ukrainian Catholic Univ. Research Centre of St. Clement in Rome 1963; mem. Sacred Congregation for the Oriental Churches 1963, Pontifical Comm. for compilation of Oriental Codex of Canon Law, Taras Shevcenko Literary Soc.; edited Blahovistnik and Monumenta Ucrainae Historica 1964; cr. Cardinal 1965; mem. Tiberian Acad. of Rome, Pontifical Comm. for Revision of the Code of Canon Law; built Church of St. Sophia in Rome for Ukrainians 1969; established Ukrainian parish of SS. Sergius and Bacchus in Rome 1971; visited Ukraine communities in Canada, U.S.A., S. America, Australia, etc. 1968-69; Hon. degrees from Loyola Univ., Chicago, Catholic Univ., Washington, Innsbruck Univ., etc. *Publications:* since 1963, 70 vols. in fields of philosophy, history, theology, etc. *Address:* Palazzino dell' Arciprete, Vatican City, 00120 Rome, Italy. *Telephone:* Vatican City 3321.

ŚLIWIŃSKI, Marian; Polish physician and politician; b. 2 Feb. 1932, Strzelce Wielkie; ed. Medical Acad., Łódź; mem. of PZPR (Polish United Workers Party) 1948-; mem. of youth orgs.; Asst. Physiological Inst. Med. Acad., Łódź 1952-55; Asst., later lecturer II Surgical Clinic, Medical Acad. Łódź; Dir. Clinical Hosp., Łódź 1955-64; doctorate 1963; Asst. Prof. 1965; Deputy mem. Cen. Cttee. PZPR 1971-; Dir. Educ. and Scientific Dept., Ministry of Health and Social Welfare 1964-70, Vice-Minister 1970-72, Minister 1972-; scientific prize of Łódź City; mem. of nat. and int. medical socs.; Foreign mem. U.S.S.R. Acad. of Sciences 1978-; several Polish decorations, including Commdr.'s and Chevalier's Crosses of Order of Polonia Restituta. *Publications:* numerous papers on surgery of the thorax and cardiosurgery. *Address:* Ministerstwo Zdrowia i Opieki Społecznej, ul. Miodowa 15, 00-246 Warsaw, Poland.

SLOMAN, Albert Edward, M.A., D.PHIL.; British university administrator; b. 14 Feb. 1921, Launceston, Cornwall; s. of Albert Sloman and L. F. Brewer; m. Marie B. Bergeron 1948; three d.; ed. Launceston Coll. and Wadham Coll., Oxford; Lecturer, Univ. of Calif. (Berkeley) 1946-47; Reader in Spanish, Univ. of Dublin 1947-53; Fellow, Trinity Coll., Dublin 1950-53; Prof. of Spanish, Univ. of Liverpool 1953-62; Vice-Chancellor, Univ. of Essex 1962-; Pres. Conf. of European Rectors and Vice-Chancellors 1969-74; Vice-Pres. Int. Assn. of Univs. 1970-75; mem. Econ. and Social Cttee. EEC 1973-. *Publications:* The Sources of Calderón's El Principe Constante 1950, The Dramatic Craftsmanship of Calderón 1958, Calderón, La Vida Es Sueño (Editor) 1960, Bulletin of Hispanic Studies (Editor) 1953-62, A University in the Making 1964. *Leisure interest:* travel. *Address:* University of Essex, Wivenhoe Park, Colchester, Essex, England. *Telephone:* (0206) 862286.

ŚLOPEK, Stefan; Polish microbiologist; b. 1 Dec. 1914, Skawa, near Cracow; s. of Stanisław and Kunegunda Ślopek; m. 1st Kazimiera Drobrowolska 1942; one s. one d.; m. 2nd Lucyna Karasiewicz 1974; ed. Medical Faculty, Lvov Univ.; Doctor 1945-48, Docent 1948-50, Assoc. Prof. 1950-57, Prof. 1957-; Dir. Inst. of Immunology and Experimental Therapy, Polish Acad. of Sciences (PAN), Wrocław 1954-, Corresp. mem. PAN 1965-73, mem. 1973-, mem. Presidium 1972-, Chair. Cttee. of Immunology 1972-; Prof. of Medical Microbiology, Medical Acad., Wrocław 1954-73; Hon. mem. Polish Soc. of Microbiologists 1975-, Polish Immunological Soc. 1975-; Dr. h.c. Silesian, Wrocław and Poznań Medical Acads.; State Prize, 2nd Class 1952, 1st Class 1970, Knight's and Officer's Crosses and Commdr. Cross with Star, Order of Polonia Restituta, Order of Banner of Labour, 1st Class 1969, The Armed Forces in the Service of the Fatherland Gold Medal 1971. *Publications:* Immunologia 1963, Schorzenia ropne skóry (Suppurant Diseases of the Skin) (co-author) 1967, Mikrobiologia lekarska. Podręcznik dla studentów Akademii Medycznych (Medical Microbiology. Handbook for Medical Acad. Students) (five edns.), Mikrobiologia kliniczna (Clinical Microbiology) 1974; Editor Archivum Immunologiae et Therapiae Experimentalis 1956, Immunologia praktyczna (Practical Immunology) 1970, Słownik Immunologiczny (Illustrated Immunological Dictionary) 1977; numerous articles in Polish and foreign languages. *Address:* Pl. Muzealny 5 m.I, 50-035 Wrocław, Poland.

SLUTSKY, Boris Abramovich; Soviet poet; b. 7 May 1919, Slavyansk, Donetsk region; ed. Literary Inst., Leningrad; served in army 1941-45; mem. CPSU 1943-; three orders of distinction. *Publications:* Poetry: Memory 1957, Time 1959, Today and Tomorrow 1961, Work 1964, Memory: Verse 1944-68, 1969, Modern Stories 1969, Blue Arrow 1971, The Goodness of Day, New Poetry 1973; many translations from Polish poetry.

SMALE, John G., B.S.; American business executive; b. 1 Aug. 1927, Listowel, Ont., Canada; s. of Vera G. and Peter J. Smale; m. Phyllis Anne Weaver 1950; two s. two d.; ed. Miami Univ. (Ohio); worked for Vick Chemical Co., New York 1949-50; with Bio-Research Inc., New York 1951-52; with Procter and Gamble Co. 1952-, Dir. 1972-, Pres. 1974-; Hon. LL.D. (Kenyon Coll.) 1974. *Address:* The Procter and Gamble Company, 301 East Sixth Street, Cincinnati, Ohio 45202, U.S.A. *Telephone:* (513) 562-1100.

SMALE, Stephen, M.S., PH.D.; American professor of mathematics; b. 15 July 1930, Michigan; s. of Lawrence and Helen Smale; m. Clara Davis 1955; two c.; ed. Univ. of Mich.; Prof., Columbia Univ. 1961-64; Prof., Univ. of Calif., Berkeley 1964-; mem. Nat. Acad. of Sciences; Veblen Prize; Field Medal, Int. Union of Mathematicians. *Publications:* Differential Equations, Dynamical Systems and Linear Algebra (with M. Hirsch) 1974, various articles on topology and global analysis. *Leisure interests:* mineral collecting, skin diving. *Address:* Department of Mathematics, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 642-4367.

SMALL, Charles John; Canadian economist; b. 19 Dec. 1919, Chengtu, Szechuan, China; s. of Rev. and Mrs. Walter Small; m. Jean McNeel 1946; four d.; ed. Ontario Agricultural Coll. and Univ. of Toronto; Royal Canadian Navy serving in North Atlantic, Mediterranean, Normandy and Australia; mem. Dept. of Trade and

Commerce 1949, serving in The Hague 1950-55; Dept. of External Affairs 1955-; studying Chinese language at Univ. of Toronto 1956-57, seconded to Dept. of Trade and Commerce and apptd. Canadian Govt. Trade Commr., Hong Kong 1958-61, Ottawa 1961-63; Counsellor, Karachi 1963-65; Perm. Rep. to OECD 1965-69; Amb. to Pakistan 1969-72, concurrently to Afghanistan; Amb. to People's Repub. of China 1972-76, concurrently to Democratic Repub. of Viet-Nam 1975-76; Canadian Del. to 2nd Cttee., UN Gen. Ass. 32nd session 1977, Deputy Sec.-Gen. (Econ.) of Commonwealth Secr. 1978; LL.D. h.c. (Univ. of Guelph) 1975. *Leisure interests:* tennis, golf, swimming, sinology. *Address:* c/o Commonwealth Secretariat, Marlborough House, London, SW1Y 5HX, England.

SMALLPEICE, Sir Basil, K.C.V.O., F.C.A., B.COM.; British businessman; b. 18 Sept. 1906, Rio de Janeiro, Brazil; s. of Herbert Charles Smallpeice and Georgina Ruth (née Rust); m. 1st Kathleen Ivey Singleton Brame 1931 (deceased 1973), m. 2nd Rita Barbara Mary Burns 1973; with Bullimore and Co., chartered accountants 1925-30; Accountant, Hoover Ltd. 1930-37; Chief Accountant and Sec. Doulton & Co. 1937-48; Dir. of Costs and Statistics, British Transport Comm. 1948-50; Financial Comptroller, British Overseas Airways Corpn. 1950-56, mem. Board 1953-63, Deputy Chief Exec. 1954-56, Man. Dir. 1956-63; Man. Dir. BOAC-Cunard Ltd. 1962-63; Dir. Cunard Steamship Co. 1964-71, Chair. 1965-71; Chair. Assoc. Container Transportation (Australia) 1971-, ACT (Australia)/Australian Nat. Line Co-ordinating Board 1969-; Admin. Adviser, Queen's Household 1964-; mem. Cttee. for Exports to U.S.A. 1964-66; Dir. Charterhouse Group 1965-69; Chair. English-Speaking Union of the Commonwealth 1965-68; Chair. British Inst. Management 1970-72, Vice-Pres. 1972-; Dir. Barclays Bank, London Local Board (fmr. Martins Bank) 1966-74; Deputy Chair. Lonrho Ltd. 1972-73; Pres. Inst. of Freight Forwarders 1977-78. *Leisure interests:* golf, gardening. *Address:* ACT (Australia) Ltd., 136 Fenchurch Street, London, E.C.3 (Office); Bridge House, Leigh Mill Road, Cobham, Surrey, England (Home). *Telephone:* 01-626 3233 (Office).

SMALLWOOD, Hon. Joseph R., P.C., D.C.L., LL.D., D.LITT.; Canadian politician; b. 24 Dec. 1900, Gambo, Newfoundland; s. of Charles Smallwood and Minnie Devanna; m. Clara Oates 1925; two s. one d.; ed. Bishop Field Coll., St. John's; journalist and author; launched and led movement to confederate Newfoundland and Labrador with Canada; founder Newfoundland Liberal Party; Premier of Newfoundland 1949-72, concurrently Minister of Econ. Devt. 1956-72. *Leisure interests:* reading, Masonry, L.O.A. *Address:* Box 1, Site 4, R.R. No. 1, Roaches Line, Newfoundland, Canada. *Telephone:* (709) 726-3593, (709) 753-1355.

SMART, Louis Edwin Jr., A.B., J.D.; American lawyer and airline executive; b. 17 Nov. 1923, Columbus Ohio; s. of Louis Edwin and Esther (née Guthery) Smart; m. 1st Virginia Alice Knouff 1944 (divorced 1958), one s. one d.; m. 2nd Jeanie Alberta Milone 1964, one s.; ed. Harvard Coll., Harvard Law School; admitted to N.Y. Bar 1950; Assoc. Hughes, Hubbard and Ewing, New York 1949-56; Partner, Hughes, Hubbard and Reed, New York 1957-64; Pres. Bendix Int., Dir. Bendix Corpn. and foreign subsidiaries 1964-67; Sr. Vice-Pres. Trans World Airlines Inc. 1967-76, Vice-Chair. 1976, Chair. of Board and Chief Exec. Officer 1977-; Dir. Hilton Int. Co. 1967- (Exec. Officer 1967-73), Southern Natural Resources Inc., ACF Industries Inc., Southern Natural Gas Co., Canteen Corpn.; mem. American Bar Assn., New York County Lawyers' Assn.; Trustee Cttee. for Econ. Devt. 1977-; U.S.N.R. 1943-46. *Address:* Trans World Airlines, 605 Third Avenue, New York, N.Y. 10016 (Office); 535 East 86th Street, New York, N.Y. 10028, U.S.A.; Coakley Bay, Christiansted, St. Croix, U.S. Virgin Islands 00820. *Telephone:* (212) 557-5502 (Office).

SMEDLEY, Sir Harold, K.C.M.G., M.B.E.; British diplomatist; b. 19 June 1920, Hove, Sussex; s. of late Ralph Davies Smedley, M.D.; m. Beryl Harley Brown 1950; two s. two d.; ed. Aldenham School and Pembroke Coll., Cambridge; Royal Marine Commandos, Second World War; Dominions Office 1946, British High Commission in New Zealand 1948-50, S. Rhodesia 1951-53, India 1957-60; Private Sec. to Commonwealth Sec. 1954-57; High Commr. in Ghana 1964-65 and 1966-67; Amb. to Laos 1967-70; Asst. Under-Sec. of State, Foreign and Commonwealth Office 1970-72; Sec.-Gen. Comm. on Rhodesian Opinion 1971-72; High Commr. in Sri Lanka and Amb. (non-resident) to the Repub. of Maldives 1973-75, High Commr. in New Zealand 1976-, concurrently to Western Samoa 1977-, and Gov. of Pitcairn Islands. *Leisure interest:* gardening. *Address:* British High Commission, Reserve Bank Building, 2 The Terrace, P.O. Box 1812, Wellington, New Zealand; Sherwood, Oak End Way, Woodham, Weybridge, Surrey, England.

SMEDT, Rt. Rev. Bishop Aemilius Josephus de, D.PHIL., D.THEOL.; Belgian ecclesiastic; b. 30 Oct. 1909, Opwijk; ed. Univ. Gregorianum, Rome; Auxiliary Bishop, Malines 1950; Bishop of Bruges 1952-; mem. Secr. for Christian Unity, Rome; Knight, Order of Leopold. *Publications:* Le mariage, Le grand Mystère, Le Christ dans le quartier, Le sacerdoce des fidèles, L'amour conjugal, Pour un dialogue "Parents-Adolescents", Pour un climat de Liberté. *Address:* 4 H. Geesttraat, 8000 Bruges, Belgium. *Telephone:* 050-359-06.

SMELYAKOV, Nikolay Nikolayevich; Soviet foreign trade official; b. 14 April 1911; ed. Moscow Engineering Inst.; mem. CPSU 1939-; engineering 1934-55; Minister of Engineering 1956-57; Chair. Gorki Econ. Council 1957-58; First Sec. Gorki Regional Cttee. of CP 1958-59; Pres. Amtorg Joint-Stock Soc. in U.S.A. 1959; Deputy Minister of Foreign Trade 1959; Order of Red Banner of Labour (six times), Order of Red Star, Honour Badge, Order of the Great Patriotic War (1st Degree). *Address:* Ministry of Foreign Trade, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

SMETÁČEK, Václav, PH.DR.; Czechoslovak conductor and professor of music; b. 30 Sept. 1906, Brno; s. of Judr Rudolf Smetáček and Eleonora Smetáčková; m. Miloslava Kočvarová 1948; two s. two d.; ed. Acad. of Music, Prague and Charles Univ., Prague; Founder and oboist Prague Wind Quintet 1928-56; Conductor Prague Hlahol Singing Choir 1934-46, Prague Broadcasting Corpn. 1934-43; Artistic Dir. and First Conductor Prague Symphony Orchestra 1943-72; Prof. Prague Conservatoire 1945-67; has conducted orchestras in all continents of the world; numerous recordings for Suprafon, Deutsche Grammophongesellschaft, Panton, Opus and Musica Sacra; mem. Union of Czech Composers and Concert Artists 1976-; Officer Order Polonia Restituta; Honoured Artist 1962; Nat. Artist of Czechoslovakia 1976; Prize of the City of Prague, Order of Labour 1966. *Major works:* Ballet on the Eve of a Summer Day, Vivat Olympia (Solemn March), Wedding March and several Wind Quintets. *Address:* Klidná 6, Prague 6, 16200 Czechoslovakia. *Telephone:* 35-05-92.

SMETS, Georges Joseph G. R., PH.D.; Belgian professor of chemistry; b. 11 Aug. 1915, Louvain; s. of Giullaume Smets and Marguerite van Marsenille; m. Elisabeth Maria A. Stas 1941; one s. four d.; ed. Catholic Univ. of Louvain; Research Fellow, Nat. Research Council 1940-42; Officer for Research and Devt., Gevaert NV 1942-44; Assoc. Prof. Catholic Univ. of Louvain 1944-48, Prof. 1948-, Dean of Faculty of Sciences 1970-73; Exchange Prof., U.K. 1956, France 1959, 1961, U.S.S.R. 1964, Poland 1967, 1975, Japan 1972; mem. Koninklijke Acad. van België 1953, Pres. 1962; Fellow, New York Acad. of Sciences; mem. Bureau, IUPAC 1969, Exec. Cttee. 1973, Pres. 1975-79; Polymer Chem. Award, American Chem. Soc.; Decennial Award in Chem. (Belgium) 1968; Dr. h.c. (Aberdeen); Centennial Fellow American Chem. Soc. 1976. *Publications:* about 240 papers in int. scientific journals incl. Journal of Polymer Science, Makromolekulare Chemie, Pure and Applied Chemistry, Journal of Organic Chemistry. *Address:* Katholieke Universiteit te Leuven, Department of Chemistry, Celestijnenlaan 200 F, 3030 Heverlee, Louvain (Office); 5 Beukelaan, 3030 Heverlee, Louvain, Belgium (Home). *Telephone:* 016-235821 (Office); 016-224836 (Home).

ŠMÍD, Ladislav, DOC., DR., C.SC.; Czechoslovak diplomatist; b. 16 July 1925, Kladno; m.; one d.; Assoc. Prof. of Modern History, Social Sciences and Econs., Charles Univ., Prague until 1956; entered foreign service; with Czechoslovak Embassy, New Delhi 1957-59; Deputy Head of Dept. for Int. Orgs., Ministry of Foreign Affairs 1960-62; Deputy Perm. Rep. to UN 1962-65, Perm. Rep. Aug. 1973-77; Head of Div., Ministry of Foreign Affairs 1966-73; mem. of del. to numerous UN bodies and specialized agencies; Vice-Chair. UNCTAD Preparatory Bd. 1963-64; Vice-Pres. UNCTAD Trade and Devt. Bd. 1969-70, 1972-73; Vice-Pres. ECOSOC 1974, 1975, Chair. ECOSOC Social Cttee. 1974; Deputy Chair. UN Special Cttee. for Peaceful Operations 1975-; Chair. Social, Humanitarian and Cultural Cttee. of UN Gen. Assembly 1975-, ECOSOC Policy and Programme Co-ordination Cttee. 1975, ECOSOC Econ. Cttee. 1976; Pres. ECOSOC 1977.

SMILEY, Donald B., LL.B.; American business executive; b. 6 April 1915, Albany, Illinois; s. of Ralph Smiley and Etta Sorrowfree; m. Ruth Dick Cutter 1942; one s. three d.; ed. Augustana Coll. and Northwestern Univ. Law School; naval service during World War II; Asst. Gen. Attorney, R. H. Macy & Co. Inc., Gen. Attorney and Sec. 1953, Dir. 1956, then apptd. Vice-Pres. and Treas., latest Chair. of the Board and Treas. 1968-, Chief Exec. Officer 1971-; Trustee Cttee. for Econ. Devt.; Dir., Texasgulf, Inc., Ralston Purina Co., Charter New York Corpn., RCA Corpn., NBC Metropolitan Life Insurance Co., Fidelity Union Bancorpn., Irving Trust Co., United

States Steel Corpn.; Trustee, Metropolitan Museum of Art; mem. Bar Asscns., City and State of N.Y. *Leisure interests:* tennis, golf, music, theatre and literature. *Address:* R. H. Macy & Co. Inc., Herald Square, New York, N.Y. 10001 (Office); 1 Putnam Hill, Greenwich, Conn. 06830, U.S.A. (Home). *Telephone:* (203) 869-1230.

SMIRNOV, Andrey Andreyevich; Soviet diplomatist; b. 8 Oct. 1905, Khovostovo, Yaroslavl Region; ed. Leningrad Planning Inst.; joined Diplomatic Service 1936; served in Germany 1940-41; Amb. to Iran 1941-43; at U.S.S.R. Ministry of Foreign Affairs 1943-46; Deputy Minister of Foreign Affairs of R.S.F.S.R. 1946-49; Amb. to Austria 1956-57, to German Fed. Repub. 1957-66, to Turkey 1966-68; Deputy Minister of Foreign Affairs 1968-. *Address:* Ministry of Foreign Affairs, Smolenskaya-Sennaya ploshchad 32-34, Moscow, U.S.S.R.

SMIRNOV, Leonid Vasiliyevich; Soviet politician; b. 16 March 1916; ed. Novocherkassy Industrial Inst.; Engineer, Foreman, Head of Electrical Dept., Factory Dir. 1939-61; Deputy Chair., later Chair. State Cttee. for Defence Equipment, U.S.S.R. Ministry of Armaments, U.S.S.R. Ministry of Defence Equipment 1961-63; mem. Cen. Cttee. of CPSU 1961-; Vice-Chair. Council of Ministers 1963-; Deputy to U.S.S.R. Supreme Soviet 1962-; Hero of Socialist Labour 1961, Orders of Lenin (three), Hammer and Sickle Gold Medal, Lenin Prize 1960 and other decorations. *Address:* Council of Ministers, The Kremlin, Moscow, U.S.S.R.

SMIRNOV, Vladimir Ivanovich, D.SC.; Soviet geologist; b. 31 Jan. 1910, Moscow; ed. Moscow Inst. of Exploration Geology; post-graduate student and Asst., Moscow Inst. of Exploration Geology 1934-39, Reader and Dean of Geology Faculty 1939-41; Chief Geologist, Cinnabar Mines, Cen. Asia 1941-44; Reader and Dir. of Research Activities, Moscow Inst. of Exploration Geology 1944-46; Vice-Minister of Geology, U.S.S.R. 1946-51; Prof. and Head, Dept. of Econ. Geology, Moscow State Univ. 1951-; mem. CPSU 1940-; mem. U.S.S.R. Acad. of Sciences 1962-, Head Div. of Geology, Geophysics and Geochem., mem. Presidium U.S.S.R. Acad. of Sciences 1969-76; Vice-Pres. Int. Assn. on the Genesis Ore Deposits 1964-75, Int. Union of Geological Sciences 1968-76; Order of Lenin (twice), Lenin Prize 1972, Order of October Revolution and other decorations. *Publications:* Ore Deposits of Central Asia 1937, Types of the Hydrothermal Ore Deposits Connected with the Magmatic Differentiation at Tian Shan 1944, Geology of the Cinnabar Deposits 1947, Estimation of Ore Reserves 1950, Geological Basis of Prospecting and Exploration of Ore Deposits 1954, Six Types of Primary Zoning in Hydrothermal Ore Deposits 1957, Convergence of Pyritic Ore Deposits 1960, Metallogenesis in Geosynclines 1962, Outlines of Metallogenesis 1963, Geology of Mineral Deposits 1965, Ore Deposits of the U.S.S.R. 1974. *Address:* Department of Geology, University of Moscow, Moscow B234, U.S.S.R.

SMIRNOVSKY, Mikhail Nikolayevich; Soviet engineer and diplomatist; b. 7 Aug. 1921, Tver (now Kalinin); ed. secondary school, Kalinin, and Moscow Aviation Inst.; fmr. engineer, Moscow; Diplomatic Service 1948-; joined staff of U.S.S.R. Representation in Far East Comm. 1949; later Third and First Sec., Washington; Asst., later Deputy Head, U.S. Dept., Ministry of Foreign Affairs 1955-58; Counsellor, later Counsellor-Minister, Washington 1958-62; Head of U.S. Dept., Ministry of Foreign Affairs 1962-66; Amb. to U.K. 1966-73, concurrently to Malta 1967-73; mem. Cen. Auditing Comm. of CPSU 1966-76; numerous awards. *Address:* c/o Ministry of Foreign Affairs, 32-34 Smolenskaya Sennaya ploshchad, Moscow, U.S.S.R.

SMITH, Albert Charles, PH.D.; American biologist; b. 5 April 1906, Springfield, Mass.; s. of Henry J. and Jeanette R. (Machol) Smith; m. 1st Nina Grönstrand 1935, one s. one d.; m. 2nd Emma van Ginneken 1966; ed. Columbia Univ.; Asst. Curator, N.Y. Botanical Garden 1928-31, Assoc. Curator 1931-40; Curator, Herbarium Arnold Arboretum, Harvard Univ. 1940-48; Curator, Div. of phanerogams, U.S. Nat. Museum, Smithsonian Inst. 1948-56; Program Dir. Systematic Biology, Nat. Science Foundation 1956-58; Dir. Museum of Nat. History, Smithsonian Inst. 1958-62, Asst. Sec. 1962-63; Prof. of Botany and Dir. of Research, Univ. of Hawaii 1963-65, Gerrit Parmile Wilder Prof. of Botany 1965-70, Prof. Emeritus 1970-; Ray Ethan Torrey Prof. of Botany, Univ. of Massachusetts 1970-76, Prof. Emeritus 1976-; Editorial Consultant, Pacific Tropical Botanical Garden 1977-; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences, Linnean Soc. of London, etc. *Publications:* Flora Vitensis Nova: A New Flora of Fiji (Vol. 1) 1979 and about 200 articles on plant taxonomy, evolutionary biology and phytogeography. *Address:* Department of Botany, University of Hawaii, Honolulu, Hawaii 96822, U.S.A. *Telephone:* (808) 948-8304 (Office); (808) 732-0057 (Home).

SMITH, Arnold Cantwell, C.H., M.A., D.C.L., LL.D.; Canadian diplomatist, international official and university professor; b. 18 Jan. 1915, Toronto; s. of Victor Arnold Smith; m. Evelyn Hardwick Stewart 1938; two s. one d.; ed. Upper Canada Coll., Toronto, Lycée Champoléon, Grenoble, Univs. of Toronto, Oxford (Christ Church Coll.) and Gray's Inn, London; Ed. Baltic Times, Tallin, Estonia 1939-40; Attaché, British Embassy, Cairo 1940-43; Sec. Canadian Embassy Kuibyshev 1943, Moscow 1943-45; Dir. Nat. Defence Coll. of Canada 1947-49; Alt. Rep. of Canada on UN Security Council and Atomic Energy Comm., and Principal Adviser to Canadian Del., Lake Success 1949-50; Counsellor, Canadian Embassy, Brussels 1950-53; Special Asst. to Sec. of State for External Affairs, Ottawa 1953-55; Commr. Int. Truce Comm., Cambodia 1955-56; Canadian Minister, London 1956-58; Amb. to U.A.R. 1958-61, U.S.S.R. 1961-63; Asst. Under-Sec. of State for External Affairs, Ottawa 1963-65; elected First Sec.-Gen. of the Commonwealth 1965-75; Visiting Centenary Prof., Toronto Univ. 1967; Lester B. Pearson Prof. of Int. Affairs, Carleton Univ., Ottawa 1975-; Ida Green Visiting Prof., Univ. of B.C. Feb.-March 1978; Chair. North-South Inst., Hudson Inst. of Canada, Int. Peace Acad.; Pres. Canadian Bureau for Int. Educ.; Life Vice-Pres. Royal Commonwealth Soc.; Hon. Fellow Lady Eaton Coll. Trent Univ.; Trustee Hudson Inst., N.Y.; Hon. D.C.L. (Univ. of Michigan, Oxon., Bishop's Univ.), Hon. LL.D. (Ricker Coll. of North-West, Queen's Univ., Toronto Univ., N.B. Univ., B.C. Univ., Leeds Univ.). *Leisure interests:* photography, farming in France, travelling. *Address:* The Norman Paterson School of International Affairs, Carleton University, Ottawa, Ont., Canada. *Telephone:* (613) 231-5524.

SMITH, Bruce Henderson, LL.B., B.COM., F.C.A., F.C.I.S.; New Zealand banker and company director; b. 28 Aug. 1918, Auckland; s. of Arthur Wilfred and Eugene (née McCullagh) Smith; m. Macie Eveline Rule 1946; one s. one d.; ed. Mount Albert Grammar School, Auckland Univ. and Canterbury Univ.; joined Bank of New Zealand 1935, Man. Int. Division 1956, Deputy General Man. 1967-73, Gen. Man. and Chief Exec. Officer 1973-; Pres. Bankers Inst. of New Zealand 1977-; Dir. Bank of Western Samoa 1973-, Bank of Tonga 1973-, B.N.Z. Finance Co. Ltd. 1975-, Petroleum Corpn. of N.Z. 1978-, Petroleum Corpn. of N.Z. (Exploration) Ltd. 1978-, Bradbury Wilkinson and Co. (N.Z.) Ltd. 1978-; mem. N.Z. Wool Comm. 1968-70, Nat. Devt. Council 1970-74, Trade Promotion Council 1977-, 1978 Export Year Cttee. 1978-, Bd. of Trustees, Massey Univ. Agricultural Research Foundation 1978-; Assoc. Bankers Inst. of Australasia, *Publications:* numerous articles on banking. *Leisure interests:* golf, reading, music. *Address:* 4 Clifton Towers, 202 Oriental Parade, Wellington, 1, New Zealand. *Telephone:* WN. 846635.

SMITH, Cyril Stanley, D.SC., D.LITT., SC.D.; American (naturalized) metallurgist and historian of technology; b. 4 Oct. 1903, Birmingham, England; s. of Joseph Seymour Smith and Frances (Norton) Smith; m. Alice Marchant Kimball 1931; one s. one d.; ed. Univ. of Birmingham and Mass. Inst. of Technology; Research Assoc. M.I.T. 1926-27; Research Metallurgist American Brass Co. 1927-42; Research Supervisor Nat. Defense Research Cttee. 1942-43; Assoc. Div. Leader (Metallurgy) Los Alamos Scientific Lab. 1943-46; Dir. Inst. for the Study of Metals, Chicago Univ. 1946-57, Prof. of Metallurgy 1946-61; Inst. Prof. M.I.T. 1961-69; Prof. Emer. 1969-; mem. Gen. Advisory Cttee., U.S. Atomic Energy Comm. 1946-52; mem. Materials Advisory Board 1954-56, President's Science Advisory Cttee. 1959, Cttee. on Science and Public Policy of Nat. Acad. of Sciences 1965-67, Smithsonian Inst. Council 1966-75; Visiting Fellow, St. Catherine's Coll. Oxford 1968; Pres. Soc. for the History of Tech. 1963-64; mem. Akad. der Wissenschaften, Göttingen, American Philosophical Soc., Nat. Acad. of Sciences; Medal for Merit 1946, Clamer Medal (Franklin Inst.) 1952, American Soc. of Metals Gold Medal 1962, American Inst. Mining and Metallurgical Engineers Douglas Medal 1963, Leonardo da Vinci Medal 1966, Inst. of Metals (London) Platinum Medal 1970. *Publications:* A History of Metallography 1960, Sources for the History of the Science of Steel 1968; translations (in collaboration) of Pirotechnia (Biringuccio) 1942, 1959, 1966, Treatise on Ores and Assaying (Lazarus Ercker) 1951, On Divers Arts (Theophilus) 1963, Mappae Clavicula 1974; Editor Sorby Centennial Symposium on the History of Metallurgy 1965; nearly 200 papers in scientific and learned journals. *Leisure interest:* Oriental art. *Address:* Room 14N-238, Massachusetts Institute of Technology, Cambridge, Mass. 02139 (Office); 31 Madison Street, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* (617) 253-3722 (Office); (617) 491-1916 (Home).

SMITH, Cyrus R.; American airline executive; b. 9 Sept. 1899; ed. Univ. of Texas; Public Accountant, Peat, Marwick Mitchell and Co. 1921-26; Asst. Treas. Texas-Louisiana Power Co., Fort Worth

1926-28; Vice-Pres. Texas Air Transport Inc., Fort Worth 1929-30; Vice-Pres. American Airlines Inc. 1934-42; U.S. Army Air Force, rising to Maj.-Gen. 1942-45; Pres. American Airlines Inc. 1945-64, Chair. and Chief Exec. 1964-68, 1973-74; U.S. Sec. of Commerce 1968-69; Gen. Partner Lazard Frères, New York 1969-73; D.S.M., Legion of Merit, Hon. C.B.E. *Address:* 2358 Massachusetts Avenue, N.W., Washington, D.C. 20008, U.S.A.

SMITH, Darwin Eatna, B.S., LL.B.; American business executive; b. 16 April 1926, Garrett, Ind.; s. of Kay B. Smith and Hazel R. Sherman; m. Lois Claire Archbold 1950; twin s. and d. and one s. one d.; ed. Indiana Univ. and Harvard Law School; employee, Sidley & Austin (law firm), Chicago 1955-58; joined Kimberley Clark Corpn. 1958, Gen. Attorney 1959, Vice-Pres. 1962, Vice-Pres. (Finance and Law) 1967, Exec. Vice-Pres. 1969, Pres. 1970-, Chair. of Board and Chief Exec. Officer 1971-. *Address:* Kimberley-Clark Corporation, Neenah, Wis. 54957 (Office); Route 1, Box 211, Menasha, Wis. 54952, U.S.A. (Home).

SMITH, Dodie (pseudonym C. L. Anthony); British dramatist and novelist; b. 3 May 1896, Bury, Lancs.; d. of late Ernest Smith and Ella Furber; m. Alec Macbeth Beesley 1939; ed. St. Paul's School for Girls and Royal Acad. of Dramatic Art; fmr. actress; buyer at Heal and Son until 1931. *Plays:* As C. L. Anthony: Autumn Crocus 1931, Service 1932, Touch Wood 1934; As Dodie Smith: Call It a Day 1935, Bonnet Over the Windmill 1937, Dear Octopus 1938 (revived 1967), Lovers and Friends 1943, Letter from Paris 1952, I Capture the Castle 1954, These People—Those Books 1958; Novels: I Capture the Castle 1948, The New Moon with the Old 1963, The Town in Bloom 1965, It Ends with Revelations 1967, A Tale of Two Families 1970, The Girl from the Candle-Lit Bath 1978; Children's Books: The Hundred and One Dalmations 1956, The Starlight Barking 1967, The Midnight Kittens 1978; Autobiography: Look Back With Love 1974, Look Back With Mixed Feelings 1978. *Leisure interests:* reading, music, Dalmatian dogs. *Address:* The Barretts, Finchingfield, Essex, England. *Telephone:* 037-810260.

SMITH, Emil L., B.S., PH.D.; American biochemist and biophysicist; b. 5 July 1911, New York City; s. of Abraham and Esther Smith; m. Esther Press 1934; two s.; ed. Columbia, Cambridge and Yale Univs.; Instructor, Columbia Univ. 1936-38; Fellow, Rockefeller Inst. 1940-42; Senior Biochemist and Biophysicist, E. R. Squibb & Sons 1942-46; Assoc. Prof. and Prof., Univ. of Utah 1946-63; Prof. and Chair. Dept. of Biological Chem., Univ. of Calif., Los Angeles 1963-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Philosophical Soc., etc.; Guggenheim Fellow (Cambridge and Yale) 1938-40. *Publications:* Principles of Biochemistry (co-author) 1954; many articles in biochemistry and biophysics. *Leisure interests:* music, literature, art. *Address:* Department of Biological Chemistry, University of California, School of Medicine, Los Angeles, Calif. 90024, U.S.A. *Telephone:* 213-825-6494.

SMITH, George Ivan, M.A.; Australian United Nations administrator; b. 1915; ed. Sydney Univ.; Ed. of Talks, Australian Broadcasting Comm. 1937-39; Dir. Australian Short-Wave Service 1939-41; Dir. BBC Pacific Service 1941-45; Int. Affairs Films 1945-47; UN Information Services, Lake Success 1947-49; Dir. UN Information Centre, London 1949-58; Dir. External Relations, UN, New York; Sen. Dir. of Public Information, UN 1961-62; UN Rep. Katanga 1961-62; Personal Rep. of UN Sec.-Gen. in East and Central Africa; Regional Dir. UN Tech. Assistance Programmes in Central Africa 1962-66; Visiting Prof. Princeton Univ. and Fletcher School of Law and Diplomacy Boston (on special leave from UN) 1966-68; Dir. UN Office, London 1968-74; Senior Consultant, Int. Inst. for Environment and Devt., London 1974-. *Address:* 17 Ashley Court, Morpeth Terrace, London, S.W.1, England.

SMITH, Gerard Coad, LL.B.; American government official and lawyer; b. 4 May 1914, New York City; s. of John T. Smith and Mary A. (Smith) Smith; m. Bernice Latrobe Maguire 1941; three s. one d.; ed. Canterbury School, New Milford, Yale Coll. and Yale Law School; Lawyer, New York 1939-50; U.S. Navy 1941-45; Special Asst., U.S. Atomic Energy Comm. 1950-54, to Sec. of State for Atomic Affairs 1954-57; Deputy Chief, U.S. Del. negotiating IAEA Treaty 1955-56; Chief U.S. Political Adviser to first Atoms-for-Peace Conf. and to talks with U.S.S.R. on safeguards against diversion of nuclear materials to weaponry 1955; State Dept. Liaison Officer to Senate Foreign Relations Cttee. on Disarmament Affairs 1957; Chief Aide to Sec. of State, London Disarmament Conf. 1957; originated nuclear test restraint concept agreed upon at Bermuda Heads of Govts. meeting 1957; Asst. Sec. of State and Dir. Policy Planning Staff Dept. of State 1957-61; originated Washington-Moscow "Hot Line" concept 1959; Consultant, State Dept. Policy Planning Council 1961-68; Foreign Policy Consultant, Washington Centre Foreign Policy Research 1961-69; Special Adviser to Sec. of State for Multilateral Force Negotiations 1962, 1964; Founder Interplay magazine 1967-68; Dir., U.S. Arms Control and Disarmament Agency 1968-72; Head, U.S. Del. to SALT, Helsinki and Vienna 1969-72; American Chair. Trilateral Comm. 1973-77; Counsel Wilmer, Cutler and Pickering, Washington 1973-77; U.S. Special Rep. for Non-proliferation Matters 1977-; U.S. Rep. to IAEA 1977-; Amb. at Large 1977- (responsible for negotiations regarding the supply of uranium); mem. Council on Foreign Relations 1961-. *Leisure interests:* golf, reading, walking. *Address:* Department of State, Washington, D.C. 20520 (Office); 2425 Tracy Place, N.W., Washington, D.C. 20008, U.S.A. (Home).

SMITH, Hamilton O., M.D.; American university professor and research scientist; b. 23 Aug. 1931, New York; s. of Tommie Harkey and Bunnie Othanel Smith; m. Elizabeth Anne Bolton 1957; four s. one d.; ed. Univ. of Illinois, Univ. of California at Berkeley, Johns Hopkins Univ. School of Medicine; Internship, Barnes Hosp., St. Louis, Mo. 1956-57; Lieut. in U.S.N.R., Senior Medical Officer 1957-59; Resident, Henry Ford Hosp., Detroit, Mich. 1950-62; Postdoctoral Fellow, Dept. of Human Genetics, Univ. of Mich. 1962-64, Research Assoc. 1964-67; Asst. Prof. of Microbiology, Johns Hopkins Univ. School of Medicine 1967-69, Assoc. Prof. 1969-73, Prof. of Microbiology 1973-; sabbatical year with Inst. für Molekular-Biologie, Zürich Univ. 1975-76; Guggenheim Fellow 1975-76; Nobel Prize in Medicine 1978. *Leisure interests:* piano, classical music. *Address:* Department of Microbiology, Johns Hopkins University School of Medicine, Baltimore, Md. 21205 (Office); 8222 Carrbridge Circle, Baltimore, Md. 21204, U.S.A. (Home). *Telephone:* (301) 955-3650 (Office); (301) 821-5409 (Home).

SMITH, Henry Nash, M.A., PH.D.; American professor of English; b. 9 Sept. 1906, Dallas, Texas; s. of Loyd Bond and Elizabeth Nash Smith; m. Elinor Lucas 1936; one s. two d.; ed. Southern Methodist Univ. and Harvard Univ.; Instructor to Assoc. Prof. of English, Southern Methodist Univ. 1927-41; Prof. of English and American History, Univ. of Texas (Austin) 1941-47; Prof. of English, Univ. of Minnesota 1947-53; Prof. of English, Univ. of Calif. (Berkeley) 1953-, Chair. Dept. of English 1957-60; Fellow, American Acad. of Arts and Sciences 1965-, Woodrow Wilson Int. Center 1969; Guggenheim Fellow 1976; Pres. Modern Language Assn. of America 1969; Hon. Litt.D. (Southern Methodist) 1966, Hon. LL.D. (Colorado State) 1970; John H. Dunning Prize, American Historical Assn. and Bancroft Prize, Columbia Univ. for Virgin Land 1951; Award for distinguished scholarship in the humanities, American Council of Learned Socs. 1960. *Publications:* Virgin Land: The American West as Symbol and Myth 1950, Mark Twain: The Development of a Writer 1962, Mark Twain's Fable of Progress 1964, Democracy and the Novel: Popular Resistance to Classic American Writers 1978; Editor: Mark Twain of the "Enterprise" 1957, Popular Culture and Industrialism 1865-1890 1967, Mark Twain-Howells Letters 1960. *Leisure interest:* walking. *Address:* Dept. of English, University of California, Berkeley, Calif. 94720 (Office); 1515 Oxford Street, Apt. 2D, Berkeley, Calif. 94709, U.S.A. (Home). *Telephone:* 843-7504 (Home).

SMITH, Sir Howard Frank Trayton, K.C.M.G.; British diplomatist; b. 15 Oct. 1919, Brighton, Sussex; s. of the late Frank Howard Smith; m. Mary Cropper 1943; one d.; ed. Polytechnic Secondary School, London, and Sidney Sussex Coll., Cambridge; Foreign Office 1939-47; Second Sec., Oslo 1947-50; First Sec., Washington 1950-53, Caracas 1953-56; Foreign Office 1956-61; Counsellor, Moscow 1961-63; Head of N. Dept., Foreign Office 1964-68; Amb. to Czechoslovakia 1968-71; Special Rep. of British Govt. in Ulster 1971-72; Deputy Sec. to Cabinet Office 1972-75; Amb. to U.S.S.R. 1976-78. *Address:* c/o Foreign and Commonwealth Office, London S.W.1., England.

SMITH, Howard K(ingsbury) B.A.; American journalist; b. 12 May 1914, Ferriday, La.; m. Benedicte Traberg 1942; one s. one d.; ed. Tulane Univ., New Orleans, Heidelberg Summer School, and Oxford Univ.; reported for New Orleans Item 1936-39; in United Press, London then Berlin 1939-41; Columbia Broadcasting System (Berlin, Berne, 9th U.S. Army, Germany and finally as Chief European Corresp. in London 1946-57) 1941-59; CBS Washington Corresp. 1957-61, Chief Corresp. and Gen. Man. 1961-62; News Commentator, American Broadcasting Co. (ABC), Washington 1962-; Hon. LL.D. (Tulane, Roosevelt, Maryland Univs. and Centenary Coll., La.); D. Litt. (St. Norbert's Coll.); L.H.D. (Alfred Univ. and Thiel, Pikeville, Ripon and St. Michael's Colls.); recipient of many awards for radio and television, including Overseas Press Award for best radio and TV reporting from abroad 1951-54, George Polk Memorial and Emmy awards for documentary "The Population Explosion", and Radio-TV Daily award as Commentator of

the Year 1960, Overseas Press Award, best radio interpretation of foreign affairs 1961, Du Pont award 1955, 1963, Int. Press Assn. Lowell Thomas Award 1976. *Publications:* Last Train from Berlin 1942, The State of Europe 1949, Washington D.C. 1967. *Address:* American Broadcasting Co., 1124 Connecticut Avenue, Washington, D.C. 20036, U.S.A. (Office). *Telephone:* (202) 393-7700.

SMITH, Ian Douglas; Rhodesian politician; b. 8 April 1919; m. Janet Watt; two s. one d.; ed. Chaplin School, Gwelo, Rhodesia and Rhodes Univ., Grahamstown, S. Africa; R.A.F. 1941-46; farmer; mem. Parl. 1948-53, 1962-, Parl. of Fed. of Rhodesia and Nyasaland 1953-61; fmr. Chief Whip United Fed. Party; foundation mem. and Vice-Pres. Rhodesian Front 1962, Pres. 1964-; Deputy Prime Minister and Minister of Treasury S. Rhodesia 1962-64; Minister of Defence 1964-65, of External Affairs 1964; Prime Minister of Rhodesia 1964-79; Minister without Portfolio in Bishop Muzorewa's Govt. 1979-; mem. Transitional Exec. Council to prepare for transfer of power in Rhodesia 1978-79; proclaimed Rhodesia's independence Nov. 1965; Independence Decoration 1970, Grand Commdr., Order of the Legion of Merit 1979. *Address:* House of Assembly, Salisbury; Gwenoro Farm, Selukwe, Zimbabwe, Rhodesia.

SMITH, J. Stanford; American business executive; b. 4 Jan. 1915, Terre Haute, Ind.; m. Elaine Showalter; two s. two d.; ed. DePauw Univ.; joined Gen. Electric Co. 1936, Vice-Pres. Information Systems Group 1966-69, Vice-Pres. Int. Group 1969-72, Senior Vice-Pres. for Corporate Admin. 1972-73; Vice-Chair. Int. Paper Co. 1973, Chair., Chief Exec. Officer Jan. 1974-; Vice-Chair. Board of Trustees, DePauw Univ.; Dir. Chase Manhattan Bank, Gen. Motors Corpn., Canadian Int. Paper Co., U.S.-U.S.S.R. Trade and Econ. Council; mem. Nat. Industrial Energy Conservation Council, Dept. of Commerce, U.S. Business Council, Exec. Cttee. and Policy Cttees. of the Business Roundtable, Exec. Cttee. of American Paper Inst.; Overseer, Amos Tuck School of Business Admin., Dartmouth Coll.; fmr. mem. many educ., community and church bodies; Hon. LL.D. (DePauw) 1968, Hon. Ph.D. (Rose-Hulman Inst. Tech.) 1977. *Address:* International Paper Co., 220 East 42nd Street, New York, N.Y. 10017 (Office); Round Hill Road, Greenwich, Conn., U.S.A. (Home).

SMITH, Maj.-Gen. James Desmond Blaise, C.B.E., D.S.O., C.D.; Canadian army officer; b. 7 Oct. 1911, Ottawa; s. of William George Smith and Anna O'Brien; m. Miriam Irene Blackburn 1937 (died 1969); two s.; ed. Univ. of Ottawa, Royal Military Coll., Canada, Staff Coll., Camberley, Imperial Defence Coll.; joined Royal Canadian Dragoons 1933; served Defence H.Q. Ottawa and 1st Infantry Div. 1940; War Course, Staff Coll. Camberley 1940; Directing Staff, first Canadian Army Staff Course 1940-41; Brigade Maj. 1941-42; C.O. Royal Canadian Dragoons 1942; G.S.O. I, 5th Armoured Div. 1942-43; Commanded 4th Armoured Brigade 1943-44, 5th 1944; Gen. Staff, 1st Canadian Corps, Italy 1944; G.O.C. 1st Canadian Infantry Div. 1944-45; Commdt. Royal Mil. Coll. and Canadian Army Staff Coll. 1945-46; Hon. A.D.C. to the Gov.-Gen. 1946; I.D.C. 1946-47; Sec. Chiefs of Staff Cttee. and Mil. Sec. Cabinet Defence Cttee. 1948-50; Quartermaster Gen. 1940-51; Chair. Joint Staff, Canadian Mil. Rep. at SHAPE and Perm. Canadian Rep. to NATO Council 1951-54; Commdt., Nat. Defence Coll., Canada 1954-58; Adjutant-Gen. 1958-62; Col., H.M. Regt. of Canadian Guards 1961-66; Chair. and Chief Exec. Pillar Eng. Ltd.; Dir. RTZ Industries Ltd. and numerous other companies; Légion d'honneur, Croix de guerre, Legion of Merit (U.S.A.), Italian, Greek and Canadian decorations. *Leisure interests:* tennis, skiing. *Address:* Pillar Engineering Ltd., Cleveland House, 19 St. James's Square, London, SW1Y 4JG; 50 Albert Court, London, SW7 2HB, England (Home). *Telephone:* 01-930 7355.

SMITH, Sir James Eric, Kt., C.B.E., M.A., SC.D., PH.D., F.R.S.; British zoologist; b. 23 Feb. 1909, Hull, Yorks.; s. of Walter Smith and Elsie K. Pickett; m. Thelma A. Cornish; one s. one d.; ed. Hull Grammar School and King's Coll., London; Asst. Lecturer, Manchester Univ. 1932-35; Lecturer, Sheffield Univ. 1935-38, Cambridge Univ. 1938-50; Prof. of Zoology, Queen Mary Coll., London 1950-65; Dir. Plymouth Lab. and Sec., Marine Biological Assn. of U.K. 1965-74; mem. Science Research Council 1963-66; Chair. Trustees of British Museum (Natural History) 1969-74; Chair. Special Cttee. on Problems of the Environment, ICSU 1970-73; mem. Advisory Board for Research Councils 1974-77; Fellow, Queen Mary Coll., London, King's Coll., London, Plymouth Polytechnic; Hon. D.Sc. (Exeter). *Publications:* Various papers on the ecology, nervous system and behaviour of echinoderms and other marine invertebrates. *Leisure interests:* travel, gardening. *Address:* The Laboratory, Citadel Hill, Plymouth, Devon; Wellesley House, Coombe Road, Saltash, Cornwall, England (Home). *Telephone:* Plymouth 21761; Saltash 2495.

SMITH, J(ames) Henry, B.A.; American welfare official and fmr. insurance executive; b. 29 March 1910, Chestertown, Md.; s. of Rev. Tilghman Smith and Clara Murray; m. Roberta Foard 1931; three s. one d.; ed. Univ. of Delaware; with Equitable Life Assurance Soc., New York 1930-35; Travelers Insurance Co. 1935-42; Equitable 1942-, Vice-Pres. and Assoc. Actuary 1953-57, Underwriting Vice-Pres. 1958-65, Vice-Pres. and Actuary 1965-67, Pres. 1967-73, Chair. 1973-75; Commr. Dept. of Social Services, New York 1976-; Chair. Health Insurance Council, Health Insurance Assn.; mem. President's Cttee. on Health Educ., Gov.'s Steering Cttee. on Social Problems, President's Comm. on Income Maintenance, Dept. of Health Advisory Council on Social Security; mem. Board of Alfred Univ., Colgate Palmolive Co.; Fellow, Soc. of Actuaries; Hon. LL.D. (Alfred and Delaware Univs. and Rider Coll.). *Leisure interest:* golf. *Address:* 36 North Crescent, Maplewood, N.J. 07040, U.S.A.

SMITH, Rev. Dr. John Coventry; American ecclesiastic; b. 1903, Canada; Missionary, Japan 1929-42; Assoc. Gen. Sec. for Japan, Korea, Philippines and Thailand, Comm. on Ecumenical Mission and Relations (COEMAR), United Presbyterian Church in U.S.A.; Gen. Sec. COEMAR 1959-70; Moderator 180th Gen. Assembly of United Presbyterian Church 1968-69; mem. Central Cttee. of World Council of Churches (WCC) 1961-, Vice-Chair. Divisional Cttee. on World Mission and Evangelism; Pres. of WCC 1968-75. *Address:* c/o World Council of Churches, 150 route de Ferney, 1211 Geneva 20, Switzerland.

SMITH, Rt. Hon. John, P.C., LL.B.; British politician; b. 13 Sept. 1938, Dalmally, Argyll; s. of A. L. Smith; m. Elizabeth Margaret Bennett 1967; three d.; ed. Dunoon Grammar School, Glasgow Univ.; called to Scottish Bar 1967; M.P. for Lanarkshire (North) 1970-; Parl. Under-Sec. of State for Energy 1974-75, Minister of State for Energy 1975-76, Minister of State, Privy Council Office 1976-78; Sec. of State for Trade 1978-79; Labour. *Leisure interests:* sailing, tennis. *Address:* 21 Cluny Drive, Edinburgh, EH10 6DW, Scotland.

SMITH, John Herbert, C.B.E., F.C.A., I.P.F.A., C.I.GAS.E., F.B.C.S.; British accountant and executive; b. 30 April 1918, Shipley, Yorkshire; s. of Thomas A. Smith; m. Phyllis Mary Baxter 1945; two s. three d.; ed. Salt High School, Shipley, Yorkshire; Articled Clerk, Bradford & Otley 1934-39; served R.A.M.C. 1940-46; Deputy Clerk and Chief Financial Officer, Littleborough, Lancashire 1946-49; various posts in West Midlands Gas Board, to Asst. Chief Accountant 1949-61; Chief Accountant, Southern Gas Board 1961-65; Dir. of Finance and Admin., East Midland Gas Board 1965-68; full-time mem. East Midland Gas Board, also Deputy Chair. 1968-72; mem. for Finance, Gas Council 1972, British Gas Corpn. 1973-76; Deputy Chair. British Gas Corpn. July 1976-; Chair. Moracrest Investments Ltd. 1977-; mem. Pension Funds Property Unit Trust 1975-, Lazards American Exempt Fund 1976-, Council of the Inst. of Chartered Accountants in England and Wales, London 1977-. *Leisure interests:* music, piano playing, choral activities. *Address:* British Gas Corporation, 59 Bryanston Street, London, W1A 2AZ (Office); 64A Beaconsfield Road, Blackheath, London, SE3 7LG, England (Home). *Telephone:* 01-723 7030 (Office).

SMITH, John Lucian, B.S.C.; American business executive; b. 24 Oct. 1918, West Point, Mississippi; m. Claire Davis; one s. one d.; ed. Univ. of Mississippi, Oxford, Mass.; joined The Coca-Cola Co. 1940; army service in Air Corps, World War II; Sales Man. Western Coca-Cola Bottling Co. 1947, Field Sales Man. Bottler Sales Devt. Dept. 1958, Vice-Pres. 1961, Gen. Man. Bottler Sales Devt. Dept. 1962, Asst. Marketing Dir. for Carbonated Beverages 1965-67, Pres. Duncan Foods Co. Div. 1967, Pres. Coca-Cola U.S.A. 1971, Dir. The Coca-Cola Co. 1972-, Senior Vice-Pres. 1974, Pres. May 1974-; Chair. Coca-Cola Export Corpn. 1976-. *Address:* 3444 Tuxedo Road, North-West Atlanta, Ga. 30305, U.S.A.

SMITH, Sir Leslie Edward, Kt., F.C.A.; British business executive; b. 15 April 1919, London; s. of Edward V. Smith and Doris E. Browning; m. 1st Lorna Pickworth 1943, 2nd Cynthia Holmes 1964; one s. three d.; ed. Christ's Hospital; Chief Exec., Finance, The British Oxygen Co. Ltd. (now BOC Int. Ltd.) 1961-65, Dir. (Commercial) 1965-67, Joint Man. Dir. 1967-69, Group Man. Dir. 1969-72, Chair. March 1972-; Chair. AIRCO Inc. (U.S.A.); Dir. Cadbury Schweppes 1977-; part-time mem. Nat. Enterprise Board 1979-. *Leisure interest:* reading. *Address:* BOC International Ltd., Hammersmith House, London, W.6 (Office); Cookley House, Cookley Green, Swyncombe, nr. Henley-on-Thames, Oxon., RG9 6EN, England (Home). *Telephone:* 01-748 2020 (Office); Nettlebed (0491) 641258 (Home).

SMITH, Lloyd Bruce; American business executive; b. 13 Oct. 1920, Milwaukee, Wis.; s. of Lloyd Raymond and Agnes (Gram) Smith; m. Lucy Anne Woodhull; three s. one d.; ed. Sheffield

Science School, Yale; with A. O. Smith Corpn., Milwaukee 1942-, successively Asst. to Pres., then Vice-Pres., Dir., Man. Home Appliances division, Asst. Gen. Man., Pres. 1951-67, Chair. and Chief Exec. Officer 1967-; Dir. A. O. Smith, Inland Inc., A. O. Smith Harvestore Products Inc.; Dir. First Wisconsin Nat. Bank of Milwaukee, First Wisconsin Corpn., Goodyear Tire and Rubber Co., Medical Coll. of Wis., Deere and Co., Continental Can Co., Milwaukee Voluntary Equal Employment Council; mem. Business Council; distinguished Life mem. American Soc. for Metals. *Address:* 3533 North 27th Street, Milwaukee, Wis. 53216, U.S.A. *Telephone:* (414) 873-3000.

SMITH, Maggie Natalie, C.B.E.; British actress; b. 28 Dec. 1934, Ilford, Essex; m. 1st Robert Stephens (q.v.) 1967 (dissolved 1975), two s.; m. 2nd Beverley Cross 1975; ed. Oxford High School for Girls; first appeared with Oxford Univ. Dramatic Soc. (O.U.D.S.) in Twelfth Night 1952; appeared in revue New Faces N.Y. 1956, Share My Lettuce 1957, The Stepmother 1958; with Old Vic Co. 1959-60 playing in The Double Dealer, As You Like It, Richard II, The Merry Wives of Windsor, What Every Woman Knows; other appearances include Rhinoceros 1960, Strip the Willow 1960, The Rehearsal 1961, The Private Ear and The Public Eye 1962, Mary, Mary 1963; with Nat. Theatre played in The Recruiting Officer 1963, Othello (Desdemona) 1964, The Master Builder 1964, Hay Fever 1964, Much Ado About Nothing 1965, Miss Julie 1965, A Bond Honoured 1966, The Beaux' Stratagem 1970, Hedda Gabler 1970, Three Sisters, Design for Living (Los Angeles) 1971, Private Lives London 1972, U.S.A. 1974-75, Peter Pan 1973, Snap 1974; played 1976, 1977 and 1978 seasons, Stratford, Ont., Canada; Hon. D.Lit. (St. Andrews). *Films include:* The V.I.P.s 1963, The Pumpkin Eater 1964, Young Cassidy 1965, Othello 1966, The Honey Pot 1967, Hot Millions 1968, The Prime of Miss Jean Brodie 1969, Travels with My Aunt 1972, Love and Pain and the Whole Damn Thing 1973, Murder by Death 1975, Death on the Nile 1978, California Suite 1978; Awards: Evening Standard Best Actress Award 1962, 1970; Variety Club Actress of the Year 1963; L.A. Critics Award Best Actress 1970; Variety Club Award Best Stage Actress 1972 (plays); Acad. Award for Best Actress 1969, for Best Supporting Actress 1979; Best Actress Award from Soc. of Film and Television Arts (U.K.) 1969; Best Actress Award from Film Critics' Guild (U.S.A.) 1969 (films). *Address:* c/o Fraser & Dunlop, 91 Regent Street, London, W1R 8RU, England.

SMITH, Margaret Chase; American politician; b. 14 Dec. 1897; ed. Skowhegan High School; began career as teacher; with Independent Reporter 1919-28, Daniel E. Cummings Co. 1928-30; Treas., New England Process Co. 1928-30; mem. House of Reps. 1940-48; Senator from Maine 1948-72; Republican; Chair. Freedom House (New York) 1970-77, Northwood Inst. Nat. Women's Board 1978-; Dir. Lilly Endowment, Inc. 1976-; Visiting Prof. Woodrow Wilson Nat. Fellowship Foundation 1973-76; numerous hon. degrees. *Publications:* numerous papers and articles; syndicated newspaper and magazine columns; Gallant Women 1968, Declaration of Conscience 1972. *Address:* Norridgewock Avenue, Skowhegan, Maine 04976, U.S.A.

SMITH, Richard, C.B.E.; British artist; b. 1931, Letchworth, Herts.; ed. Luton School of Art, St. Albans School of Art and Royal Coll. of Art; lived in New York 1959-61, 1963-65; teacher St. Martin's School of Art, London 1961-63; Artist-in-Residence, Univ. of Virginia 1967; Grand Prix São Paulo Bienal 1967; one-man exhbns. at the Kasmin Gallery 1963, 1967, Whitechapel Gallery 1966; participated in the Pittsburgh Int. 1961, New Shapes in Colour, Amsterdam, Berne and Stuttgart 1966-67 and in exhbns. at Guggenheim Museum, Tate Gallery, etc.; works represented in Tate Gallery, Stuyvesant Foundation, Contemporary Art Soc., the Ulster Museum, Belfast, the Walker Art Center, etc. *Address:* c/o Kasmin Art, 8 Gloucester Gate, London, S.W.1, England.

SMITH, Robert Allan, C.B.E., PH.D., F.R.S.E., F.R.S.; British physicist; b. 14 May 1909; ed. Edinburgh and Cambridge Univs.; Carnegie Research Fellow, St. Andrew's Univ. 1935-38; Lecturer, Reading Univ. 1938-39; worked for Royal Radar Est. 1939-60, Head of Physics Dept. 1947-60; Prof. of Physics, Sheffield Univ. 1961-62; Prof. of Physics and Dir., Center for Materials Science, M.I.T., U.S.A. 1962-68; Principal and Vice-Chancellor, Heriot-Watt Univ. 1968-74; Pres. Royal Soc. of Edinburgh 1976-; Fellow, American Acad. of Arts and Sciences, American Physical Soc. *Publications:* Radio Aids to Navigation 1947, Aerials for Metre and Decimetre Wavelengths 1949, The Physical Principles of Thermodynamics 1952, Semiconductors 1959, The Wave Mechanics of Crystalline Solids 1961, The Detection and Measurement of Infra-red Radiation 1968, numerous articles in scientific journals. *Address:* 2/18 Succoth Court, Edinburgh, EH12 6BZ, Scotland.

SMITH, Robert Powell, M.A.; American diplomatist; b. 5 March 1929, Missouri; ed. Texas Christian Univ., Fort Worth, Texas, U.S.A.; joined Foreign Service 1955; Consular Officer, Lahore, Pakistan 1956-58; Econ. Officer, Beirut, Lebanon 1959-61; Principal Officer, Enugu, Nigeria 1962-65; at the Dept. of State, Ghanaian and Nigerian Affairs Dept. 1965-70; Counsellor, U.S. Embassy, South Africa 1970-74; Amb. to Malta 1974-76, to Ghana 1976-. *Address:* U.S. Embassy, P.O. Box 194, Accra, Ghana.

SMITH, Wilfred Cantwell, M.A., PH.D., D.D.; Canadian university professor; b. 21 July 1916, Toronto; s. of Victor Arnold Smith and Sarah Cantwell; m. Dr. Muriel Struthers 1939; three s. two d.; ed. Upper Canada Coll., Univ. of Grenoble, Univ. of Madrid, American Univ., Cairo, Univ. of Toronto, Cambridge and Princeton Univs.; served as rep. among Muslims of the Canadian Overseas Missions Council, chiefly in Lahore 1940-49; Lecturer in Indian and Islamic History, Forman Christian Coll., Lahore 1941-45; Prof. of Comparative Religion 1949-63, and Dir. Inst. of Islamic Studies, McGill Univ. 1951-63; Visiting Prof., London Univ. 1960, Princeton Univ. 1965, Toronto 1968; Prof. of World Religions and Dir. Center for the Study of World Religions, Harvard Univ. 1964-73; McCulloch Prof. of Religion, Dalhousie Univ., Halifax, Canada 1973-78; now Prof. of Comparative History of Religion and Chair., The Study of Religion, Harvard Univ.; Pres. American Soc. for the Study of Religion 1966-69; Fellow, Royal Soc. of Canada, Pres. Humanities and Social Sciences Section 1972-73, American Acad. of Arts and Sciences; Pres. Middle East Studies Assn. of N. America 1977-78; Chauveau Medal, Royal Soc. of Canada 1974. *Publications:* Modern Islam in India 1943, Islam in Modern History 1957, Meaning and End of Religion 1963, Faith of Other Men 1963, Questions of Religious Truth 1967, Religious Diversity 1976, Belief and History 1977, Faith and Belief 1979. *Address:* Harvard University, 1581 Massachusetts Avenue, Cambridge, Mass. (Office); 50 Foster Street, Cambridge, Mass., U.S.A. (Home).

SMITH-ROSE, Reginald Leslie, C.B.E., D.SC., PH.D., F.C.G.I., F.I.C., A.R.C.S., C.ENG., F.I.E.E., F.I.E.E.E.; British scientist; b. 2 April 1894, London; m. Elsie Masters 1919; two d.; ed. Imperial Coll. of Science and Technology, Univ. of London; Asst. Engineer, Messrs. Siemens Bros. 1915-19; Scientific Officer Electricity Div., Nat. Physical Lab. 1919-33, Principal Scientific Officer, Radio Div. 1933-39, Supt. Radio Div. 1939-47; Dir. of Radio Research, Dept. of Scientific and Industrial Research, London 1947-60; Chair. Eng. Advisory Cttee. BBC 1970-73; Fellow of Inst. of Radio Engineers, New York, Vice-Pres. 1948; Fellow of Inst. of Electrical and Electronic Engineers N.Y. 1962-; Treas. U.K. and Irish Repub. branch of same 1963-; Vice-Pres. Inst. of Electrical Engineers, London 1961-65; Chair. C.C.I.R. Study Group on Tropospheric Propagation 1949-70, Study Group V, Int. Radio Consultative Cttee. 1951-70; Pres. Int. Scientific Radio Union 1960-63, Radio Soc. of Great Britain 1959; Sec.-Gen. Inter-Union Comm. on Frequency Allocations for Radio Astronomy and Space Science 1960-72; Chair. Postmaster-Gen.'s Frequency Advisory Cttee. 1960-; mem. Postmaster-Gen's. Cttee. on Broadcasting 1960; Diploma of Honor, C.C.I.R. 1978; awarded Coronation Medals 1937, 1953, U.S. Medal of Freedom with Silver Palm 1947; conducted research into problems fundamental to radio applications including electrical measurements, radio direction finding, and the propagation of radio waves. *Publications:* James Clerk Maxwell; many scientific papers. *Leisure interests:* reading, writing, motoring, foreign travel. *Address:* 21 Tumblewood Road, Banstead, Surrey, England. *Telephone:* Burgh Heath 51697.

SMITHERS, Sir Peter Henry Berry Otway, Kt., D.PHIL.; British politician and international civil servant; b. 9 Dec. 1913, Moor Allerton, Yorks.; s. of Lt.-Col. H. Otway Smithers, J.P. and Ethel M. M. Berry; m. Dorothy Jean Sayman 1943; two d.; ed. Harrow School and Magdalen Coll., Oxford; called to Bar, Inner Temple 1936, joined Lincoln's Inn 1937; Naval Service 1939-45; M.P. 1950-64; Parl. Private Sec. to Minister of State for Colonies 1952-56, to Sec. of State for Colonies 1956-59; Vice-Chair. Conservative Parl. Foreign Affairs Cttee. 1958-62; Parl. Under-Sec. of State, Foreign Office 1962-64; U.K. Del. to UN Gen. Assembly 1960-63; Consultative Assembly, Council of Europe 1952-56, 1960; Vice-Pres. European Assembly of Local Authorities 1959-62; Sec.-Gen. Council of Europe 1964-69; Senior Fellow, UNITAR, New York 1969-73; Gen. Rapporteur, the European Conf. of Parliamentarians and Scientists 1971-76; Chevalier, Légion d'honneur; Orden Mexicana de la Aguila Azteca; Humboldt Gold Medal (for int. work on conservation of nature and natural resources) 1970; Hon. Dr.jur. (Zürich) 1970; Conservative. *Publication:* Life of Joseph Addison. *Leisure interests:* horticulture and astronomy. *Address:* 6911 Vico Morcote, Switzerland.

SMITHSON, Alison Margaret; British architect; b. 22 June 1928, Sheffield; d. of Ernest Gill and Alison Jessie Malcolm; m. Peter Denham Smithson (q.v.) 1949; one s. two d.; ed. Sunderland, South Shields, George Watson's Ladies Coll., Edinburgh and Univ. of Durham; Asst. with London County Council 1949-50; in private practice ■ architect with Peter Smithson 1950-. *Principal works:* Hunstanton School; Economist Bldg., London; Robin Hood Gardens, G.L.C. Housing in Tower Hamlets; Garden Bldg. St. Hilda's Coll., Oxford. *Publications:* Young Girl (novel), Urban Structuring Studies (with P. Smithson), Team 10 Primer (Ed.), Euston Arch, Ordinariness and Light, Without Rhetoric (all with P. Smithson), The Tram Rats, The Christmas Tree, Calendar of Christmas, Places Worth Inheriting. *Address:* Cato Lodge, 24 Gilston Road, London, SW10 9SR, England. *Telephone:* 01-373 7423 and 01-373 3838.

SMITHSON, Peter Denham; British architect; b. 18 Sept. 1923, Stockton-on-Tees; s. of William Blenkiron Smithson and Elizabeth Denham; m. Alison Margaret Gill (Smithson, q.v.) 1949; one s. two d.; ed. Stockton-on-Tees Grammar School, Univ. of Durham and Royal Acad. Schools, London; Asst. at L.C.C. 1949-50; in private practice as architect with Alison Smithson 1950-. *Principal works:* Hunstanton School; Economist Bldg., London; Robin Hood Gardens, G.L.C. Housing in Tower Hamlets; Garden Bldg. St. Hilda's Coll. Oxford. *Publications:* Urban Structuring Studies, Euston Arch, Ordinariness and Light, Without Rhetoric (all with A. Smithson), Walks Within the Walls, Oxford and Cambridge Walks. *Address:* Cato Lodge, 24 Gilston Road, London SW10 9SR, England. *Telephone:* 01-373 7423 and 01-373 3838.

SMOKTUNOVSKY, Innokenty Mikhailovich; Soviet actor; b. 28 March 1925, Tatyanovka, Tomsk Region; ed. Pushkin Dramatic Theatre Studio, Krasnoyarsk; Army 1943-45; Leningrad Gorky Bolshoi State Drama Theatre 1957-; worked in cinema 1960-; Honoured Artist of R.S.F.S.R., Lenin Prize 1965, People's Artist of the U.S.S.R. 1974 and other decorations. *Principal stage roles:* Prince Myskin in The Idiot, Sergei in Irkutsk Story, Fyodor in Tsar Fyodor Ioannovich (A. N. Tolstoy). Films include: 9 Days in One Year, Hamlet 1964, Be Aware of a Car 1966, Tchaikovsky 1969, Crime and Punishment 1970, Uncle Vanya 1971. *Address:* c/o Bolshoi State Drama Theatre, Leningrad, U.S.S.R.

SMYTH, Charles Phelps, A.B., A.M., PH.D.; American physical chemist; b. 10 Feb. 1895, Clinton, N.Y.; s. of Charles Henry Smyth, Jr., and Ruth Phelps Smyth; m. Emily Ellen Vezin 1955; ed. Princeton and Harvard Univs.; Asst. Chemist, U.S. Bureau of Standards 1917; First Lieut. U.S. Army 1918; Instructor in Chem., Princeton Univ. 1920-23, Asst. Prof. 1923-27, Assoc. Prof. 1927-38, Prof. 1938-58, David B. Jones Prof. of Chem. 1958-63, Emer. 1963-; Chemist on Atom Bomb Project 1943-45; Expert Consultant, serving with U.S. Army, Germany 1945; Lieut.-Commdr. U.S. Naval Reserve 1937-41; Consulting Chemist, Office of Naval Research 1963-69, 1971-78; Visiting Prof., Japan 1965; Liaison Scientist, Office of Naval Research, London 1969-70; Hon. Chair. Gordon Conf. 1970; Visiting Prof., Salford 1974-77; mem. Nat. Acad. of Sciences, American Philosophical Soc. (Council 1968-71); Fellow, American Physical Soc.; Nichols Medal (American Chemical Soc.); Medal of Freedom (U.S. Army); Hon. D.Sc. (Salford) 1970; Certificate of Appreciation, War Dept., Certificate in Recognition of Public Service, U.S. Dept. of State, Cert. of Merit, O.S.R.D. *Publications:* Dielectric Constant and Molecular Structure 1931, Dielectric Behavior and Structure 1955; Assoc. Ed. Journal of Chemical Physics 1933-36, 1952-54; 306 scientific papers and book chapters 1917-74. *Leisure interests:* fly-fishing, walking, riding, reading, music, travel. *Address:* Frick Chemical Laboratory, Princeton Univ., Princeton, N.J. 08540 (Office); 245 Prospect Avenue, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* (609) 452-3902 (Office); (609) 921-6525 (Home).

SMYTH, Craig Hugh, A.B., M.F.A., PH.D.; American art historian and educationist; b. 28 July 1915, New York; s. of George Hugh Smyth and Lucy Salome Humeston; m. Barbara Linforth 1941; one s. one d.; ed. Hotchkiss School, Princeton Univ.; Research Asst. Nat. Gallery of Art, Wash., D.C. 1941-42; served in U.S. Naval Reserve 1942-46; Officer-in-Charge, Dir. Cen. Art Collecting Point, Munich 1945-46; Lecturer Frick Collection, New York 1946-50; Asst. Prof. of Fine Arts, Inst. of Fine Arts, New York Univ. 1950-53, Assoc. Prof. 1953-57, Prof. 1957-73, Acting Dir. 1951-53, Dir. 1953-73; Visiting Scholar, Inst. for Advanced Study, Princeton Univ. 1971, Bibliotheca Hertziana, Rome 1972, 1973; Prof. of Fine Arts, Harvard Univ. 1973-; Dir. Harvard Univ. Center for Italian Renaissance Studies, Florence 1974-; mem. American Acad. of Arts and Sciences 1978-, Inst. for Advanced Study, Princeton Univ. 1978; Alt. mem. Comité Int. d'Histoire d'Art 1970-; Hon. Trustee, Metropolitan Museum of Art; Chevalier Légion d'honneur. *Publications:* Mannerism and Maniera 1963, Bronzino as Draughtsman 1971. *Address:* Harvard University Center for Italian Renaissance Studies, Villa I Tatti, Via di Vincigliata, 50135 Florence, Italy. *Telephone:* 603-251, 608-909.

SNEATH, William S., M.B.A.; American business executive; b. 29 March 1926, Buffalo, N.Y.; ed. Williams Coll. and Harvard Graduate School of Business Admin.; joined Union Carbide Corpn. 1950, Treas. 1961, Vice-Pres., Treas. and Chief Financial Officer 1965, Dir. 1969, Pres. 1971-76, Chair. and Chief Exec. Officer Jan. 1977-. *Leisure interests:* skiing, golf, sailing. *Address:* Union Carbide Corporation, 270 Park Avenue, New York, N.Y. 10017, U.S.A.

SNEDDEN, Rt. Hon. Sir Billy Mackie, P.C., K.C.M.G., Q.C., LL.B., M.P.; Australian lawyer and politician; b. 31 Dec. 1926, Perth; s. of Alan Snedden; m. Joy Forsyth 1950; two s. two d.; admitted to Supreme Court 1951, Victorian Bar 1955; Migration Officer Italy, England 1952-54; mem. House of Reps. for Bruce, Victoria 1955-; Commonwealth Attorney-Gen. 1963-66; Leader, House of Reps. 1966-70; appointed Q.C. 1964; Chair. First Commonwealth Law Ministers Conf., Canberra 1965; Minister for Immigration 1966-69, for Labour and Nat. Service 1969-71, Treas. 1971-72; Deputy Leader Liberal Party 1971-72, Leader 1972-75; Leader of Opposition 1972-75; Speaker of House of Reps. Feb. 1976-. *Address:* Office of the Speaker, House of Representatives, Parliament Building, Canberra, A.C.T. (Office); 22 Pine Crescent, Ringwood, Victoria, Australia (Home).

SNEIDER, Richard Lee, A.B., M.I.A.; American diplomatist; b. 29 June 1922, New York; s. of late Leopold J. and Frances M. Sneider; m. Lea Ruth Tartalsky 1944; two s. one d.; ed. Brown Univ., Columbia Univ.; Japan and Korea Research Officer, Dept. of State 1948-52; Special Asst. UN Affairs, Dept. of State 1952-54; First Sec., Tokyo 1954-58; Officer-in-Charge, Japanese Affairs, Dept. of State 1958-61; Nat. War Coll. 1961-62; Political Counsellor, Karachi 1962-65; Public Affairs Officer, East Asia Bureau, Dept. of State 1965-66, Country Dir. for Japan 1966-68; Senior Staff mem. Nat. Security Council 1969; Deputy Chief of Mission, Minister for Okinawan Reversion Negotiations, Tokyo 1969-72; Deputy Asst. Sec. of State, East Asia Bureau 1972-74; Amb. to Repub. of Korea 1974-78; Superior Honor Awards, Dept. of State 1970, 1972. *Publication:* North Korea: Case Study of a Soviet Satellite (co-author) 1961. *Leisure interests:* golf, skiing, tennis. *Address:* 4930 30th Street, N.W., Washington, D.C., U.S.A.

SNELL, Bruno, DR.PHIL.; German Hellenist; b. 18 June 1896, Hildesheim; s. of Otto Snell and Anna Struckmann; m. 1st Herta Schräder 1925, two d.; m. 2nd Liese-Lotte Cahn 1970; ed. Lüneburg Johanneum and Univs. of Edinburgh, Leiden, Berlin, Munich and Göttingen; Lector Pisa Univ. 1925; Privatdozent Hamburg Univ. 1925, Prof. 1931-60, now Emer. *Publications:* Die Entdeckung des Geistes 1946, Der Aufbau der Sprache 1952, 1961, Griechische Metrik 1955, Poetry and Society 1961, Scenes from Greek Drama 1964, Der Weg zum Denken und zur Wahrheit 1978; Editions of Bacchylides 1934 and Pindar 1953, 1959, 1963, 1964; and Fragmenta Tragicorum Graecorum Minorum 1971. *Address:* Heimhuderstrasse 80, D-2000 Hamburg 13, Federal Republic of Germany. *Telephone:* 440756.

SNELL, Esmond Emerson, B.A., M.A., PH.D.; American professor of biochemistry; b. 22 Sept. 1914, Salt Lake City, Utah; s. of Heber C. Snell and Hedwig Ludwig; m. Mary Caroline Terrill 1941; two s. one d.; ed. Brigham Young Univ. and Univ. of Wis.; Asst. Prof. of Chem., Univ. of Texas 1941-42, Assoc. Prof. 1943-45, Prof. 1953-56, Assoc. Dir. Clayton Foundation, Biochemical Inst. of Univ. of Texas 1954-56; Assoc. Prof. of Biochem., Univ. of Wis. 1945-47, Prof. 1947-53; Prof. of Biochem., Univ. of Calif. at Berkeley 1956-76, Chair. Dept. of Biochem. 1956-62; Prof. and Chair. Dept. of Microbiology, Univ. of Texas at Austin 1976-; Ed. Annual Review of Biochemistry 1962-64, 1968-; Walker-Ames Visiting Prof. of Biochem., Univ. of Wash., Seattle 1953; Guggenheim Fellow, Univs. of Cambridge, Copenhagen and Zürich 1954-55, Max-Planck Inst. für Zellchemie, Munich 1962-63, Hebrew Univ., Jerusalem, and Univs. of Freiburg and Würzburg 1970; mem. Nat. Acad. of Sciences, American Soc. of Biological Chemists (Pres. 1961-62); Eli Lilly Award in Bacteriology and Immunology 1945, Meade-Johnson Vitamin B Complex Award 1946, Osborn Mendel Award 1951, Kenneth A. Spencer Award in Agricultural Chem. (American Chemical Soc.) 1973. *Publications:* over 300 research papers in scientific journals, including Journal of Biological Chemistry, Journal of Bacteriology, Biochemistry, Proceedings of Nat. Acad. of Sciences, Journal of American Chemical Soc.; Biochemical Preparations, Vol. III (Ed.) 1953, Methods in Enzymology (Contributor) 1957, 1967, Comprehensive Biochemistry (Contributor) 1963, 1964, 1971, International Union of Biochemistry Symposium Series, Vol. 30 1963, Vol. 35 1968 (Co-Editor). *Leisure interests:* skiing, hiking, garden-

ing. *Address:* Departments of Microbiology and Chemistry, University of Texas at Austin, Austin, Tex. 78712, U.S.A. *Telephone:* (512) 471-5543.

SNELL, Foster Dee, B.S., M.A., PH.D.; American chemist and chemical engineer; b. 29 June 1898, Binghamton, N.Y.; s. of Dayton A. and Bertha V. (Hickling) Snell; m. Cornelia A. Tyler 1921; one d.; ed. Colgate Univ. and Columbia Univ.; Teacher of Chem. Columbia Univ. 1919-20; Teacher of Chem. Coll. of City of N.Y. 1920-23; in charge of Tech. Chem. Pratt Inst. 1923-28; Office of Production Research and Devt. 1941-45; Chair. Emer. Board Foster D. Snell Inc.; Chair. of Board, 29 West 15th St. Corpn. 1964-68, trustee in liquidation 1968-; fmr. Vice-Pres. Soc. of Chemical Industry; Vice-Chair. American Section 1940-42, Chair. 1942-44; Pres. American Inst. of Chemists 1946-48; Vice-Pres. American Oil Chemists' Soc. 1940-43; Vice-Pres. Fat and Oil Comm. of Int. Union of Pure and Applied Chem. 1947-51, Pres. 1951-53; Pres. Assn. Consulting Chemists and Chemical Engineers 1952-54; Vice-Pres. Chemists' Club (New York) 1956-57, Pres. 1962-64; Trustee, Columbia Univ. 1964; Nat. Council, Colgate Univ. 1973-; Soc. of Chemical Industry Medal for 1949; American Inst. of Chemists Award 1952, etc.; Hon. mem. American Inst. of Chemists 1959; Hon. Sc.D. (Colgate Univ.) 1963; Chemical Pioneer Award A.I.C. 1970. *Publications:* Colorimetric Methods of Analysis 1923 (supplementary vols. 1959, 1961, 1967, 1970), Chemicals of Commerce 1939 and 1952, Chemistry Made Easy (4 vols.) 1943, 1959, 1960 (all with Dr. Cornelia T. Snell), Commercial Methods of Analysis (with Frank M. Biffen); Dictionary of Commercial Chemicals 1962; Ed.-in-Chief Encyclopedia of Industrial Chemical Analysis (20 vols.), first 3 vols. 1966, 2 vols. 1967, 2 vols. 1968, 1 vol. 1969, 3 vols. 1970, 3 vols. 1971, 2 vols. 1972, 2 vols. 1973, 2 vols. 1974, Photometric and Fluorometric Methods of Analysis: Metals 2 vols. 1978. *Leisure interests:* bridge, reading. *Address:* 245 Park Avenue, New York, N.Y. 10017 (Office); 860 United Nations Plaza, New York, N.Y. 10017, U.S.A. (Home). *Telephone:* 697-1900 (Office); 486-1393 (Home).

SNELL, George Davis, D.SC.; American research geneticist; b. 19 Dec. 1903, Bradford, Mass.; s. of Cullen Bryant and Katherine Davis Snell; m. Rhoda Carson 1937; three s.; ed. Dartmouth Coll. and Harvard Univ.; Instructor in Zoology, Dartmouth Coll. 1929-30, Brown Univ. 1930-31; Nat. Research Council Fellow, Univ. of Texas 1931-33; Asst. Prof., Washington Univ., St. Louis 1933-34; Research Assoc., The Jackson Laboratory 1935-56; Science Admin. 1949-50; Guggenheim Fellow, Univ. of Texas 1953-54; Senior Staff Scientist, The Jackson Laboratory 1957-69, Senior Staff Scientist Emer. 1969-; mem. Nat. Inst. of Health Allergy and Immunology Study Section 1958-62; Fellow, American Assn. for the Advancement of Science; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences, Transplantation Soc.; Foreign Assoc. French Acad. of Sciences; Foreign Corresp. Société de Biologie; Ed., Immunogenetics; Bertner Foundation Award 1962; Gregor Mendel Medal, Czechoslovak Acad. of Sciences 1967; Gairdner Foundation Award 1976; Wolf Prize in Medicine 1978; Hon. M.D. (Charles Univ., Prague) 1967, Hon. Sc.D. (Dartmouth Coll.) 1974; Hon. mem. British Transplantation Soc. *Publications:* The Biology of the Laboratory Mouse (editor) 1941, Histocompatibility 1976 and numerous papers in technical journals and books. *Leisure interests:* gardening, forestry. *Address:* The Jackson Laboratory, Bar Harbor, Maine 04609 (Office); 21 Atlantic Avenue, Bar Harbor, Maine 04609, U.S.A. (Home). *Telephone:* (207) 288-3624.

SNELLING, Richard A., B.A.; American politician and company executive; b. 18 Feb. 1927; m. Barbara Weil; two s. two d.; ed. public schools in Allentown, Pa., Univ. of Havana, Cuba, Lehigh Univ., Pa., Harvard Univ., Mass.; served U.S. Army in Europe 1944-46; Founder and Chair. Shelburne Industries Inc.; fmr. mem. Vermont Republican State Cttee., Republican Nat. Finance Cttee.; fmr. Chair. Vermont Republican Finance Cttee.; mem. Vermont House of Reps. from Shelburne 1959-60, from District 30 1973-74, from Chittenden District 7 1975-76; Majority Leader in Vt. House 1975-76; Republican Nominee for Gov. of Vermont 1966, Gov. of Vermont Jan. 1977-; fmr. Pres. Greater Burlington Industrial Corpn.; fmr. Chair. United Way Fund Drive, Vermont Aeronautics Board, Shelburne Town Planning and Zoning Boards, Chittenden County Planning Cttee.; fmr. Dir. United Community Services of Chittenden County; fmr. mem. Vermont Devt. Comm., Gov.'s Comm. on the Status of Women. *Address:* Office of the Governor, Executive Department, Montpelier, Vt.; Harbor Road, Shelburne, Vt. 05482, U.S.A. (Home). *Telephone:* 985-2121 (Home).

SNODGRASS, William DeWitt, B.A., M.A., M.F.A.; American poet, critic and teacher; b. 5 Jan. 1926; s. of Bruce DeWitt Snodgrass and Helen J. Murchie; m. Camille Rykowski 1967 (divorced); one s. two d.; ed. State Univ. of Iowa; Instructor, English Dept., Cornell Univ., Ithaca 1955-57, Univ. of Rochester 1957-58; Prof. English Dept., Wayne State Univ. 1959-68; Prof. English and Speech, Syracuse Univ. 1968-; Visiting Prof., Old Dominion Univ., Norfolk, Va. 1978, Univ. of Delaware 1979; Leader, Poetry Workshop, Morehead, Kentucky 1955, Yellow Springs, Ohio 1958, 1959; mem. Nat. Inst. of Arts and Letters 1972-, Acad. American Poets 1973-; Guggenheim Fellow 1972-73; Pulitzer Prize for Poetry 1960, (Romania) 1976, Coll. of William and Mary Bicentennial Medal 1976, and other awards. *Publications:* Heart's Needle 1959, After Experience 1968, In Radical Pursuit (critical essays) 1975, The Fuhrer Bunker (poems) 1977, Six Troubadour Songs (trans. with music), Traditional Hungarian Songs (trans. with music) 1978. *Leisure interests:* translating medieval music to be sung, playing the lute, woodcarving, owl-watching. *Address:* c/o University of Delaware, Newark, Delaware 19711, U.S.A.

SNOW, Baron (Life Peer), cr. 1964, of Leicester; **Charles Percy Snow,** Kt., C.B.E., PH.D.; British writer; b. 15 Oct. 1905; m. Pamela Hansford Johnson (*q.v.*) 1950; one s.; ed. Univ. Coll., Leicester, and Christ's Coll., Cambridge; Fellow of Christ's Coll., Cambridge 1930-50 (in residence 1930-40), Hon. Fellow 1966-; Tech. Dir. Ministry of Labour 1940-44; Civil Service Commr. 1945-60; Dir. English Electric Co. Ltd. 1947-64; Parl. Sec. Ministry of Technology 1964-66; Hon. LL.D. (Leicester, Liverpool, St. Andrews, Brooklyn Polytechnic Inst., Bridgeport, York, Toronto), Hon. D.Litt. (Dartmouth, Bard, Temple, Syracuse, Pittsburgh, Ithaca, Westminster Colls., New York, Louisville Univs.); Hon. D.H.L. (Kenyon Coll., Wash., Mich., Alfred and Akron Univs., Hebrew Union Coll.); Hon. D.Sc. (Pa. Mil. Coll.); Dr. of Phil. Sc. (Rostov-on-Don); Foreign mem. American Acad. Inst.; foreign hon. mem. American Acad. of Arts and Sciences; Extraordinary Fellow, Churchill Coll., Cambridge; Fellow, Morse Coll., Yale Univ.; Diamond Jubilee Medal, Catholic Univ. of America; Centennial Eng. Medal, Pa. Mil. Coll.; Resolution of Esteem, Congressional Cttee. on Science and Astronautics; mem. Arts Council of Great Britain 1971-74. *Publications:* Novels: Death Under Sail 1932, New Lives for Old 1933, The Search 1934, Strangers and Brothers (novel-sequence of 11 vols.) 1935-70: George Passant 1940, The Light and the Dark 1947, Time of Hope 1949, The Masters 1951, The New Men 1954, Homecomings 1956, The Conscience of The Rich 1958, The Affair 1960, Corridors of Power 1964, The Sleep of Reason 1968, Last Things 1970, The Malcontents 1972, In Their Wisdom 1974, A Coat of Varnish 1978; Lectures: The Two Cultures and the Scientific Revolution (Rede Lecture) 1959, Science and Government (Godkin Lectures) 1961; Variety of Men (biographical portraits) 1967, Public Affairs (collected essays) 1971; Literary criticism: Anthony Trollope 1975, The Realists 1978; Plays: View over the Park 1950, The Affair, The New Men, The Masters, Time of Hope, The Case in Question. *Address:* 85 Eaton Terrace, London, S.W.1, England (Home). *Telephone:* 01-730 1517 (Home).

SNOWDON, 1st Earl of, cr. 1961; **Antony Charles Robert Armstrong-Jones,** G.C.V.O; b. 7 March 1930; s. of late Ronald Owen Lloyd Armstrong-Jones, M.B.E., Q.C., D.L., and the Countess of Rosse; m. 1st H.R.H. The Princess Margaret (*q.v.*) 1960 (divorced 1978), one s. one d.; m. 2nd Lucy Lindsay-Hogg 1978; ed. Eton Coll. and Jesus Coll., Cambridge; Consultant, Council of Industrial Design; Editorial Adviser, Design magazine; Artistic Adviser to The Sunday Times and Sunday Times Publications Ltd. 1962-; Constable of Caernarvon Castle 1963-; mem. Board English Stage Co.; Pres. Greater London Arts Assn.; Fellow, Inst. of British Photographers, Soc. of Industrial Artists and Designers, Royal Photographic Soc.; mem. Faculty Royal Designers for Industry; Hon. mem. North Wales Soc. of Architects, South Wales Inst. of Architects; mem. Council, Nat. Fund for Research for the Crippled Child; Patron Nat. Youth Theatre, Metropolitan Union of YMCA's, British Water Ski Fed., British Theatre Museum; designed Snowdon Aviary, London Zoo 1965, Chairmobile 1972; television documentaries: Don't Count the Candles (six awards) 1968, Love of a Kind 1970, Born to be Small 1971, Happy being Happy 1973, Mary Kingsley 1975, Burke and Wills 1975, Peter, Tina and Steve 1977; exhbns. Photocall, London 1958, Assignments, Cologne, London, Brussels 1972, U.S.A., Canada, Japan, Australia. *Publications:* London 1958, Malta (in collaboration) 1958, Private View (with John Russell and Bryan Robertson) 1965, Assignments 1972, Venice (with Derek Hart) 1972. *Address:* 22 Launceston Place, London, W.8, England.

SNOY ET D'OPPUERS, Baron Jean-Charles; Belgian economist; b. 2 July 1907, Bois-Seigneur-Isaac, Brabant; s. of Baron Thierry Snoy et d'Oppuers and Viscountess Claire de Beughem de Houtem; m. Countess Nathalie d'Alcantara 1935; two s. five d.; ed. Univ. of Louvain and Harvard Univ.; entered banking business in Belgium 1931; became Attaché to Minister for Economic Affairs 1934, Dir., Int. Treaty Section, Ministry of Econ. Affairs 1936, Sec.-

Gen. of the Ministry 1939; dismissed from post by the Germans and active in Resistance Movement during Second World War; reassumed duties after Liberation and became Pres. Four Party Supply Cttee. of Belgium; played prominent part in creation of Benelux Econ. Union and was Chair. Council for Econ. Union; also contributed to work leading to creation of OEEC in 1948; Chair. OEEC Council 1948-50, Steering Board for Trade OEEC 1952, 1960; Chief Belgian del. 1955 to Int. Cttee. set up at Messina Conf., which later became Int. Conf. for European Common Market and Euratom; Pres. Interim Cttee. for European Common Market and Euratom 1957; Sec.-Gen. Ministry of Econ. Affairs until 1960; Perm. Rep. to European Econ. Community 1958-59; Man. Dir. Cie. Lambert pour l'Industrie et la Finance 1960-68; Partner Banque Lambert 1965-68; mem. Lower House of Parl. 1968-71; Minister of Finance 1968-72; several Belgian and foreign decorations including Grand Officer, Order of Leopold and Grand Officer Order of the Crown (Belgium); Grand Cross Order of Crown of Oak (Luxembourg), Royal Order George I (Greece), Order of Merit (Italy), Grand Cross Order of Orange-Nassau (Netherlands), Hon. K.B.E. (U.K.), Grand Cross Order of Merit (Fed. Repub. of Germany). *Leisure interests:* shooting, alpinism, tennis. *Address:* Château de Bois-Seigneur-Isaac, 1421 Braine L'Alleud, Belgium. *Telephone:* 067-22-22-27.

SNYDER, John Wesley; American banker; b. 21 June 1895; s. of Jere Hartwell Snyder and Ellen Hatcher; m. Evlyn Cook 1920 (died 1956); one d.; ed. Vanderbilt Univ.; served in First World War; banker in Arkansas and Missouri 1919-30; Bank Receiver and Conservator, Office of Comptroller of the Currency, St. Louis 1931-37; Man. St. Louis Agency, Reconstruction Finance Corpn. 1937-43; Exec. Vice-Pres. and Dir. Defense Plant Corpn., Washington 1940-43; Asst. to Board of Dirs. R.F.C. 1940-44; Vice-Pres. First Nat. Bank of St. Louis 1943-45; Fed. Loan Admin. 1945; Dir. Office of War Mobilization and Reconversion 1945; Sec. of Treasury 1946-53; Chair. Nat. Advisory Council on Int. Monetary and Financial Problems 1946-53; U.S. Gov. of Int. Monetary Fund and Int. Bank for Reconstruction 1946-53; Senior U.S. Financial Rep. in admin. of Anglo-American Financial Agreement 1946, and financial rehabilitation and aid programmes, Philippines, France, Italy, Austria, Turkey, Greece, Germany, Japan and Marshall Plan operations; mem. U.S. Nat. Security Council 1951-52, NATO Council 1949-53; del. to numerous int. financial confs.; Pres. Overland Corpn., Toledo 1953-66, Dir. 1966-; Chair. Board of Trustees, Harry S. Truman Scholarship Fund; mem. Fed. City Council, Board of Finance Cttee., Consortium Univs. of Washington Metropolitan Area, Finance Cttee., Harry S. Truman Library; Trustee Toledo Art Museum; Medal for Merit 1947; Hon. LL.D. (Ouachita Coll., George Washington Univ., Univ. of Arkansas, Univ. of Toledo, Georgetown Univ.); Hon. D.Sc. (Bryant Coll.). *Address:* 2401 Calvert Street, N.W., Washington, D.C. 20008 (Office); 4 Chalfont Court, Bethesda, Md. 20016, U.S.A.

SNYDER, Laurence Hasbrouck, M.S., S.D., H.H.D., D.SC.; American university president; b. 23 July 1901, Kingston, N.Y.; s. of DeWitt Clinton and Gertrude Wood Snyder; m. Guldberg M. Herland 1923; two d.; ed. Rutgers Univ. and Harvard; Instructor in Zoology, N. Carolina State Coll. of Agric. and Eng. 1924-25, Asst. Prof. 1925-27, Assoc. Prof. 1927-30; Assoc. Prof. of Zoology, Ohio State Univ. 1930-33, Prof. 1933-47; Prof. of Medical Genetics, Ohio State Univ. Coll. of Medicine 1933-47, Chair., Dept. of Zoology and Entomology 1942-47; Dean of Graduate Coll. Univ. of Okla. 1947-58; Pres. Univ. of Hawaii 1958-66, Emer. 1966-; mem. Nat. Research Council, Eugenics Research Assen., American Soc. of Zoologists, A.A.A.S. (Pres. 1957), Genetics Soc. of America (Pres. 1948), American Soc. Human Genetics (Pres. 1950). *Publications:* include Medical Genetics 1941, Genetics, Medicine and Man (with Muller and Little) 1947, Principles of Heredity, 5th edn. 1957. *Leisure interests:* tropical gardening, piano playing. *Address:* 2885 Oahu Avenue, Honolulu, Hawaii 96822, U.S.A.

SOAMES, Baron (Life Peer), cr. 1978, of Fletching in the County of East Sussex; **Christopher Soames,** P.C., G.C.V.O., C.B.E.; British politician and diplomatist; b. 12 Oct. 1920, Penn, Bucks.; m. Mary Spencer Churchill 1947; three s. two d.; ed. Eton Coll. and Royal Mil. Coll., Sandhurst; Capt. Coldstream Guards, served in France, Italy and Middle East 1939-45; Asst. Mil. Attaché, Paris 1946-47; Conservative M.P. for Bedford 1950-66; Parl. Private Sec. to the Prime Minister 1952-55; Parl. Under-Sec. of State to Air Ministry 1955-57, to Admiralty 1957-58; Sec. of State for War 1958-60; Minister of Agric., Fisheries and Food 1960-64; Lord Pres. of the Council and Leader of the House of Lords May 1979-; Exec. Dir. Decca 1966-68; Amb. to France 1968-72; mem., Vice-Pres. Comm. of European Communities 1973-77; fmr. Dir. N. M. Rothschild and Sons, Nat. Westminster Bank; Croix de guerre, Grand Officier Légion d'honneur, Grand Cross Order of St. Olav; Robert Schuman Prize 1975; Conservative. *Address:* c/o White's Club, St. James's Street, London, S.W.1, England.

SOARES, Mário Alberto Nobre Lopes, L. ÈS L., D. EN D.; Portuguese lawyer, historian and politician; b. 7 Dec. 1924, Lisbon; s. of João Lopes Soares and Elisa Nobre Soares; m. Maria Barroso Soares 1949; one s. one d.; ed. Univ. of Lisbon and Faculty of Law, Sorbonne, Paris; Leader MUD Juvenil (United Democratic Youth Movement), mem. MUD Cen. Cttee. 1946-48; Sec. presidential cand. of Gen. Norton da Mattos 1949; mem. Exec. of Social Democratic Action 1952-60; mem. Campaign Cttee. for Delgado in presidential elections 1958; Democratic Opposition cand. for Lisbon in legis. elections 1965, 1969; rep. of Portuguese socialists at various European socialist congresses and 11th Congress of Socialist Int., Eastbourne 1969; Portuguese rep. Int. League of Rights of Man; imprisoned 12 times on political grounds; in exile in Paris 1970-74, returned to Portugal after coup April 1974; Minister of Foreign Affairs 1974-75; Minister without Portfolio March-July 1975; Prime Minister 1976-78; Acting Minister of Foreign Affairs Oct. 1977-Jan. 1978; Sec.-Gen. Partido Socialista 1973-; corresp. República (Lisbon), Ibérica (New York). *Publications:* As Ideias Políticas e Sociais de Teófilo Braga 1951, A Justificação Jurídica da Restauração e a teoriá da origem popular do poder político 1956, Oliveira Martins e o Fontismo 1960, Direito a Casa 1965, Escritos Políticos 1969, Le Portugal Baillonné 1972. *Leisure interests:* bibliophile and collector of contemporary Portuguese paintings. *Address:* Partido Socialista, Rua da Emenda 46, 1200 Lisbon, Portugal.

SOBELL, Sir Michael, Kt.; British business executive; b. 1 Nov. 1892, Borislaw, Austria; s. of Lewis and Esther Sobell; m. Anne Rakusen 1917; two d.; ed. Cen. London Foundation School; Dir., Gen. Electric Co. 1960-67; Chair. Gen. Electric (Radio & Television) Ltd. 1968-; Pres. British Technion Soc. 1958-66, Nat. Soc. for Cancer Relief 1964-; Freeman and Liveryman, Carmen Company; Hon. Fellow, Jew's Coll., Bar Ilan Univ. *Leisure interests:* racing, charitable work. *Address:* Bakeham House, Englefield Green, Surrey, TN20 9TX, England.

SOBERS, Sir Garfield (Gary) St. Aubrun, Kt.; Barbadian cricketer; b. 18 July 1936, Bridgetown; m. Prudence Sobers 1970; one s.; ed. Bay St. School, Barbados; left-hand batsman, left-arm bowler, using all kinds of bowling; debut for Barbados v. India 1953; rep. West Indies in 86 Test Matches, 39 as Capt. 1953-74; made world record Test Match score of 365 not out, West Indies v. Pakistan, Kingston, Jamaica 1958; hit 6 sixes in [redacted] over, Notts. v. Glamorgan 1968; Capt. of West Indies and Barbados 1965-74, Nottinghamshire 1968-74; on retirement from Test cricket (1974) held following Test records: 365 not out, 26 centuries, 235 wickets, 110 catches. *Publications:* Cricket Advance 1965, Cricket Crusader 1966, King Cricket 1967 (with J. S. Barker), Cricket in the Sun 1967, Bonaventure and the Flashing Blade 1967. *Address:* c/o West Indies Cricket Board of Control, 9 Appleblossom Avenue, Petit Valley, Diego Martin, Trinidad, West Indies.

SOBHI, Mohamed Ibrahim, B.SC.; Egyptian international official; b. 28 March 1925, Alexandria; s. of Gen. Ibrahim Sobhi; m. Laila Ahmed Sobhi 1950; two s. one d.; ed. Cairo Univ.; served Egyptian Engineer Corps 1950-54; Tech. Sec., Communications Comm., Perm. Council for Devt. and Nat. Production 1954; Tech. Dir. Office of Minister of Communications for Posts, Railways and Coordination 1956-61; Dir.-Gen. Sea Transport Authority 1961-64; Under-Sec. of State for Communications 1964-68; Chair. Postal Org. of Egypt 1968-74; Sec.-Gen. African Postal Union 1968-74; Dir.-Gen. Int. Bureau of Universal Postal Union Jan.1975-; Order of merit, 1st Class (Egypt). *Leisure interests:* reading, philately, music. *Address:* Bureau International de l'Union Postale Universelle, Weltpoststrasse 4, 3000 Berne 15; Home: Bürglenstrasse 36,3006 Berne, Switzerland. *Telephone:* (031) 43-22-11 (Office).

SOBHUZA II, H.R.H. King, K.B.E.; King (Ngwenyama) and Head of State of Swaziland; b. 22 July 1899; s. of King Ngwane V; ed. Zombodze, Swaziland, Lovedale Inst. (Cape); installed as constitutional ruler 1921; led deputation to London to petition against land lost under the Partitions Proclamation of 1907 Dec. 1922; petitioned King George VI of England 1941; officially recognized by Britain as King and Head of State April 1967, assumed all exec. powers in Swaziland April 1973; Chancellor Univ. of Botswana and Swaziland 1975-. *Address:* Official Residence of the Ngwenyama, Lozithehlezi, Kwaluseni, Swaziland. *Telephone:* Kwaluseni 50.

SOBOLEV, Sergey Lvovich; Soviet mathematician; b. 6 Oct. 1908, St. Petersburg (now Leningrad); ed. Leningrad Univ.; Research devoted to mechanics, the dynamics of the resilient body and theoretical mathematics; Corresp. mem. Acad. of Sciences of U.S.S.R. 1933-39, mem. 1939-; Dir. Inst. of Mathematics and Com-

puting Centre of the Siberian Dept. of the Acad. of Sciences of the U.S.S.R. 1957-; Prof. at Moscow Univ. 1935; mem. CPSU 1940-; Foreign mem. Acad. des Sciences; awarded Order of Lenin (seven), Hero of Socialist Labour 1968, U.S.S.R. State Prize 1941, 1951, 1953 and other decorations; Editor-in-Chief Bulletin of Siberian Department of U.S.S.R. Academy of Sciences; Hon. Fellow Royal Soc. of Edinburgh 1963. *Publications:* Some Applications of Functional Analysis in Mathematical Physics 1950, Equations of Mathematical Physics 1954, Lectures on Theory of Cubic Formulae 1964, Introduction to the Theory of Cubic Formulae 1974. *Address:* Akademgorodok, Novosibirsk, U.S.S.R.

SOBOLEV, Vladimir Stepanovich; Soviet geologist; b. 30 May 1908, Lugansk (now Voroshilovgrad), Ukraine; ed. Leningrad Inst. of Mines; Geologist, Cen. Scientific Research Exploration, Inst. of Mines, Leningrad 1929-41, Prof. of Inst. 1939-45; Prof. Univ. of Lvov 1945-58; Dep. Dir. Inst. of Geology and Geophysics, Novosibirsk 1958-; Pres. Int. Mineralogical Assn. 1974-; mem. U.S.S.R. Acad. of Sciences 1958-, and Ukrainian S.S.R., Mineralogical Socs. of the U.S.S.R., Hungary and Czechoslovakia, Soc. géologique de France; State Prize 1950, Order of Lenin (twice), Order of Red Banner, Hero of Socialist Labour, Hammer and Sickle Gold Medal and other decorations. *Publications:* Petrology of Traps of the Siberian Platform, Petrology of Korosten Pluton, Introduction into Mineralogy of Silicates, Geology of Diamond Deposits, Phedorov's Method, Petrography of Igneous rocks of the Soviet Carpathians, Physical-Chemical Principles of Petrography of Igneous Rocks, Map of Metamorphic Facies of U.S.S.R.; Ed. Diamond Deposits of Jakutiya. *Address:* Akademgorodok, Novosibirsk, U.S.S.R.

SÖDER, Karin A. M.; Swedish politician; b. 30 Nov. 1928, Frykerud; d. of Yngve and Lilly Bergenfur; m. Gunnar Söder 1952; two s. one d.; Vocational Guidance Teacher 1965; County Councillor, Stockholm 1968-73; mem. Riksdag (Parl.) 1971-; Minister for Foreign Affairs 1976-78; Second Vice-Chair. Centre Party 1971; Chair. SIPRI; mem. Nat. Board of Health and Welfare 1972-76, Nat. Courts Admin. Board 1975-76; mem. Board, Royal Dramatic Theatre 1973-76, Rädda Barnen. *Leisure interests:* music, mountain trekking. *Address:* Vretvägen 11, 183 63 Täby, Sweden (Home). *Telephone:* 08-756-52-23.

SODERBERG, C. Richard, D.ENG.; American mechanical engineer; b. 3 Feb. 1895, Ulvöhamn, Sweden; s. of Jonas Axel Söderberg and Johanna Kristina (Nordquist) Söderberg; m. Sigrid Kristina Lofstedt 1921; two s. one d.; ed. Chalmers Inst. of Technology, Gothenburg, Sweden, Mass. Inst. of Technology and Tufts Univ., Mass., U.S.A.; Devt. Engineer, Westinghouse Electric and Mfg. Co., East Pittsburgh, Pa. 1922-28, Chief Turbine Engineer 1931-38; in charge of turbo generators, ASEA, Västerås, Sweden 1928-30; Prof. of Mechanical Eng., Mass. Inst. of Tech. 1938-59, Head of Dept. of Mechanical Eng. 1947-54, Dean of Eng. 1954-59, Inst. Prof. 1959-61, Inst. Prof. Emer. 1961-; Fellow American-Scandinavian Foundation 1919-20; Fellow, American Acad. of Arts and Sciences, American Inst. of Aeronautics and Astronautics, American Soc. of Mechanical Engineers, Nat. Acad. of Sciences, Ingeniörvetenskapakademiens, IVA, Sweden; mem. A.A.A.S., Brit. Inst. of Mechanical Engineers, Svenska Teknologförenigen, etc.; Joseph H. Linnard Prize (co-recipient) of Soc. of Navy Architects and Marine Engineers 1944, John Ericsson Gold Medal of American Soc. of Swedish Engineers 1952, Medal of American Soc. of Mechanical Engineers 1960, Gustaf DeLaval Medal of IVA 1968, Gustaf Dalen Medal of Chalmers Inst. of Tech., Gothenburg 1970. *Publications:* Numerous monographs in American and European journals on dynamics, vibrations, design of turbines and generators, gas turbines, etc. *Address:* 100 Memorial Drive, Cambridge, Mass. 02142, U.S.A.

SÖDERBERG, Erik Axel Olof R:son, M.SC.; Swedish business executive; b. 17 Nov. 1926, Stockholm; s. of Ragnar O. Söderberg and Ingegerd A. Wallenberg; m. Helene M. Schultz 1948; two s. two d.; ed. Univ. of Commerce, Göteborg and Columbia Univ., New York; Dir. Söderberg & Haak AB, Stockholm 1952, Vice-Pres. 1954-66; Man. Dir. Förvaltnings AB Ratos, Stockholm (investment co.) 1958-69, Chair. 1974-; Man. Dir. AB Nordiska Kompaniet 1966-76; Man. Dir. AB Turitz & Co. 1971-76; mem. of Board, Holmens Brukt AB, Norrköping, Esselte AB, Stockholm, Tibnor AB, Stockholm, Statens Vattenfallsverk, Stockholm; Hon. R.V.O., Hon. C.B.E. 1969. *Leisure interests:* golf, skating, skiing, reading, racehorse owner. *Address:* Strandvägen 63, Stockholm, Sweden. *Telephone:* 24-20-00 (Office).

SÖDERSTROM, Elisabeth Anna; Swedish soprano opera singer; b. 7 May 1927; m. Sverker Olow 1950; three s.; studied singing under Andrejewa de Skilonz and Opera School, Stockholm; engaged at Royal Opera, Stockholm 1950-; appearances at Salzburg 1955, Glyndebourne 1957, 1959, 1961, 1963, 1964, 1979, Metropolitan Opera, New York 1959, 1960, 1962, 1963; frequent concert and TV appearances in Europe and U.S.A.; toured U.S.S.R. 1966; mem. Royal Acad. of Music; Singer of the Court (Sweden) 1959; Order of Vasa; Stelle della Solidarieta dell'Italia; Prize for Best Acting, Royal Swedish Acad. 1965, "Literis et Artibus" award 1969, Commdr. of the Order of Vasa 1973. *Roles include:* Fiordiligi (Cosi Fan Tutte), Countess and Susanna (Figaro), Countess (Capriccio), Christine (Intermezzo); sang three leading roles in Der Rosenkavalier 1959. *Publication:* I Min Tonart 1978. *Leisure interests:* sailing, literature, embroidery. *Address:* c/o Royal Opera House, Stockholm, Sweden.

SODNOM, Dumaagiyn; Mongolian politician; b. 1933; ed. School of Finance and Econs., Ulan Bator, higher schools of finance and econs. in U.S.S.R.; worked in Ministry of Finance 1950-54, Dir. of Dept. in Ministry 1958-63; Minister of Finance 1963-69; First Deputy Chair. State Planning Comm. with rank of Minister 1969-72, Chair. State Planning Comm. 1972-; Deputy Chair. Council of Ministers 1974-; Deputy to People's Great Hural (Assembly) 1966-. *Address:* Government Palace, Ulan Bator, Mongolia.

SOFONOV, Georgiy Petrovich; Soviet trade union official; b. 15 Sept. 1919, Chelyabinsk; ed. Rostov Inst. of Railway Engineering; Mechanical Engineer, Dep. Shop Superintendent, Chair. Trade Union Factory Cttee., Moscow Likhachov Motor Works 1942-62; Sec.-Gen. Cttee. Eng. Workers Trade Union 1962-63, Chair. Cen. Cttee. 1963; mem. CPSU; Order of Red Banner of Labour. *Address:* Central Committee of Engineering Workers Trade Union, 42 Leninski Prospekt, Moscow, U.S.S.R.

SØGAARD, Poul; Danish politician; b. 12 Nov. 1923, Dalum, Fyn; s. of the late Johannes Christian and Anna Søgaard; m. Rita Ruth Nielsen 1946; one d.; ed. elementary and high school; mem. of local exec. of Social Democratic Party (DsU), Odense 1951; Chair. of Constituency, mem. Nat. Exec. and Nat. Secretariat of DsU 1953, mem. Nat. Exec. 1953-61; mem. Odense City Council 1954-63; temp. mem. Folketing (Parl.) 1959, mem. Folketing 1960-; mem. various parl. cttees. dealing with Ministry of Defence affairs 1964-; mem. Cttee. on Finance 1966-72, 1973; mem. del to UN 1967; party spokesman on Defence 1971; mem. Standing Defence Cttee. 1972-; Commr. for Home Guard 1972-; Deputy Chair. Social Democratic Group and Chair. Parl. Cttee. on Educ. 1977; Minister of Defence Oct. 1977-; fmr. Chair. Odense Tech. School, Rågelund Skolehjem (boarding school); fmr. mem. and Chair. Danish NATO Parl. Group. *Publication:* Fra landsoldat til 70'ernes værnepligtige (from the soldier of former times to the conscript of the 1970s) as contribution to book Forsvaret til debat (Defence up for Debate). *Leisure interests:* reading, fishing, football. *Address:* Ministry of Defence, Slotsholmsgade 10, 1216 Copenhagen K, Denmark. *Telephone:* 01-11-62-60.

SOGLO, Gen. Christophe; Benin army officer and politician; b. 1909; joined French Army 1931, 2nd Lieut. Second World War; later fought in Indo-China becoming Capt. 1950, Maj. 1956; Col. of Armed Forces of Dahomey 1961, Gen. 1964; Head of Provisional Govt. 1963-64; Chief of Staff, Dahomeyan Army 1964-65; Pres. of the Repub. and Prime Minister 1965-67, also Minister of Defence and for Rural Devt. 1966-67. *Address:* Cotonou, Benin.

SOISSON, Jean-Pierre Henri Robert, L. EN D.; French politician; b. 9 Nov. 1934, Auxerre; s. of Jacques and Denise (Silve) Soisson; m. Catherine Lacaisse 1961; one s.; ed. Lycée Jacques-Amyot, Auxerre, Faculté de droit, Paris, Ecole nationale d'administration; Auditor, Audit Office 1961; with del. to Algeria 1961-62; lecturer, Institute d'études politiques de Paris 1962-68; tech. adviser to Sec.-Gen. of Merchant Navy 1964-65, to Sec. of State for Information, later for Foreign Affairs 1966-67, to Minister of Agric. 1967-68; Conseiller referendaire, Audit Office 1968-; Deputy to Nat. Assembly for Yonne 1968-74; Deputy Sec.-Gen. Fédération nationale des républicains indépendants 1969-75, Vice-Pres. 1975-78; fmr. Sec.-Gen. Parti Republicain; County Councillor, Auxerre sud-ouest 1970-76, Mayor 1971-; Pres. Caisse d'Aide à l'équipement des collectivités locales 1973-74; fmr. Pres. parl. group for rural devt.; Sec. of State for Univs. 1974-76, for Professional Training 1976, to Minister of the Quality of Life (Youth and Sport) 1976-78; Minister for Youth, Sport and Leisure April 1978-; Croix de la valeur militaire, Chevalier du Mérite agricole, Officier de l'ordre nat. (Madagascar), Chevalier de l'ordre nat. (Senegal, Benin and Niger); Union pour la démocratie française. *Publication:* Le Piège (with Bernard Stasi and Olivier Stirn) 1973. *Leisure interests:* tennis, skiing. *Address:* 9 rue Soufflot, 89000 Auxerre, France.

SOKOINE, Edward Moringe; Tanzanian politician; b. 1938, Masai District; ed. Umbwe Secondary School, Mzumbe Local Govt. School; worked as Exec. Officer of Masai District Council until

1965; mem. Nat. Assembly for Masai, Chama Cha Mapinduzi, fmrly. Tanganyika African Nat. Union (TANU) 1965-; Parl. Sec. to Ministry of Communications, Transport and Labour Aug. 1967; Minister of State in Second Vice-Pres. Office Nov. 1970; Minister of Defence and Nat. Service 1972-77; Prime Minister Feb. 1977-; Chair. Masai Range Devt. Comm. 1965-67, Transport Licensing Authority 1967-70. *Address:* Office of the Prime Minister, Dar es Salaam, Tanzania.

SOKOLOV, Boris Sergeyevich, D.SC.; Soviet paleontologist and geologist; b. 9 April 1914, Vyshny Volochek, Tver (now Kalinin) Region; ed. Leningrad State Univ.; Laboratory State Asst., Asst. Lecturer, Leningrad State Univ. 1937-41, Lecturer 1945-60, Prof. 1964-; Chief of Geological search party, Sr. Research Worker, Head of Dept., All-Union Oil Research Geological Inst. 1943-60; Head of Dept., Inst. of Geology and Geophysics, Siberian Dept. of U.S.S.R. Acad. of Sciences 1960-; Vice-Pres. Int. Palaeontological Assen. 1972-; Pres. All-Union Palaeontological Soc. of U.S.S.R. Acad. of Sciences 1974-; Acad. Sec., section of Geology, Geophysics and Geochemistry and mem. of Presidium of U.S.S.R. Acad. of Sciences 1975-; mem. French Geological Soc. 1963; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-68, Academician 1968-; Hon. mem. Swedish Geological Soc. 1968-; Lenin Prize 1967; Order of Lenin and other decorations. *Address:* Akademgorodok, Novosibirsk, U.S.S.R.

SOKORSKI, Włodzimierz; Polish writer and journalist; b. 2 July 1908, Aleksandrowsk; ed. Univ. of Warsaw; General Sec. Polish Socialist Party "Left Wing" 1929-31; Col., Polish Army Second World War; Vice-Minister 1948-53, Minister of Culture and Art 1953-56; Pres., Cttee. for Radio and Television 1956-72; Chief Ed. Literature Monthly 1965-; Vice-Pres. Polish UNESCO Cttee.; mem. Board Warsaw Branch, Polish Writers' Assen.; Deputy mem. Cen. Cttee. Polish United Workers' Party 1948-75; Deputy to Seym 1947-55, 1965-76; numerous Govt. and Army awards including Virtuti Militari, Order of Lenin (U.S.S.R.), Banner of Labour, 1st Class, Order of Polonia Restituta, 4th and 3rd Class. *Publications:* Rozdarty bruk (The Torn Pavement—novel) 1936, Problemy polityki kulturalnej (Problems of Cultural Policy) 1947, Sztuka w walce o socjalizm (Arts for Socialism) 1950, Dziennik podróży (The Journey Diary) 1954, Grubąkreską (Drawing Thick Lines—essay) 1958, Zakręty (Curves—essay) 1959, Okruchy (Crumbs—short stories) 1961, Escapes (play) 1961, Współczesność i młodzież (The Present Day and Youth) 1963, Współczesna kultura masowa (The Modern Mass Culture) 1967, Spotkania (The Meeting—play), Milczenie (Silence—play), Polacy pod Lenino (Poles of Lenino—war memoirs) 1971, Notatki (Notes—Memoirs) 1975, Nie ma powrotów tych samych (Returning is Never the Same—play) 1975, Piotr (Peter—novel) 1976, Ludzie i sprawy (People and Affairs—memoirs) 1977, Czas, który nie mija (memoirs), Kroki, Ludzie stamtad (history) 1978, Leon Schiller, Xawery Dunikowski; numerous radio and television plays. *Address:* Redakcja "Miesięcznik Literacki", Plac Zwycięstwa 9, Warsaw; Home: Aleja Róż 6/5, Warsaw, Poland. *Telephone:* 274182.

SOLAGES, Mgr. Bruno de, L. ÈS L., D.THEOL., DR.JUR. CANONICI; French ecclesiastic; b. 8 Aug. 1895, Mézens, Tarn; s. of Comte Henri de Solages and Anne-Marie du Parc; ed. Inst. Catholique de Paris, Séminaire de Saint-Sulpice and Ecole Biblique, Jerusalem; ordained 1922; Chaplain of St. Louis des Français, Rome 1922; Prof. of Rhetoric 1925 and of Philosophy 1928, Petit Séminaire de Saint-Sulpice; Ed.-in-Chief Revue Apologétique 1926; Rector Inst. Catholique de Toulouse 1932-64 and Apostolic Protonotary 1932, Hon. Rector 1964-; Vice-Pres. des Semaines Sociales de France 1945-56; mem. Higher Council of Nat. Education 1946-54; Docteur h.c. (Montreal). *Publications:* Camille Dupin 1920, Le Procès de la Scolastique 1928, Le Problème de l'Apostolat dans le monde moderne 1932, Le Christianisme dans la vie publique 1937, Pour rebâtir une chrétienté 1938, Discours interdits 1946, Dialogue sur l'analogie 1946, La Théologie de la guerre juste 1947, Essai sur l'ordre politique national et international 1947, Billets de Christianus 1948, L'âme, Dieu, la destinée 1955, Synopse grecque des Evangiles 1958, Initiation métaphysique 1962, Teilhard de Chardin 1967, Critique des Evangiles et méthode historique 1972, La Composition des Evangiles de Luc et de Mathieu et leurs sources 1973, Comments sont nés les Evangiles 1973, Christ est réssuscité 1976. *Address:* 31 rue Fondeville, Pouvourville, 31400 Toulouse (Haute-Garonne), France. *Telephone:* 52-14-54.

SOLAIMAN, Mohammed Sidky; Egyptian engineer and politician; b. 1919; ed. Fuad I Univ. Cairo; studied eng. and mil. science; Col. in Egyptian Army -1962; Minister of Aswan High Dam 1962-66; Prime Minister 1966-67; Deputy Prime Minister and Minister of Industry, Electricity and the Aswan Dam June 1967-70, 1971; Order of Lenin. *Address:* Cairo, Egypt.

SOLANDT, Omond McKillop, O.B.E, C.C., M.D., D.SC., LL.D., F.R.C.P., F.R.S.C., F.A.A.A.S., D.ENG.; Canadian physiologist; b. 2 Sept. 1909, Winnipeg, Man.; s. of Donald McKillop and Edith (Young) Solandt; m. 1st Elizabeth McPhedran 1941 (died 1971); one s. two d.; m. 2nd Vaire Pringle 1972; ed. Univ. of Toronto; Lecturer in Physiology, Univ. of Cambridge 1939; Dir. S.W. London Blood Supply Depot 1940; Dir. Physiological Laboratory, Armoured Fighting Vehicle School 1941; Dir. Tank Section, Army Operational Research Group 1942; Deputy Supt. Army Operational Research Group 1943, Supt. 1944; Chair. Defence Research Board 1946-56; Asst. Vice-Pres., Research and Devt., Canadian Nat. Railways 1956, Vice-Pres. 1957-63; Vice-Pres. Research and Devt. and Dir. de Havilland Aircraft of Canada Ltd. 1966; Vice-Chair. Board of Electric Reduction Co. of Canada Ltd. 1966-70; Dir. Mitchell, Plummer and Co. Ltd. 1971-75, Huyck Corpn. 1966-; Chancellor Univ. of Toronto 1965-71; Chair. Science Council of Canada 1966-72; Dir. Expo 67; Public Gov. Toronto Stock Exchange 1971; Trustee, Int. Maize and Wheat Improvement Centre, Int. Centre for Agricultural Research in Dry Areas 1976; Fellow Royal Soc. of Canada, Royal Coll. of Physicians (London) 1948; hon. mem. Eng. Inst. of Canada; Hon. D.Sc. (British Columbia, Manitoba, Laval, McGill and St. Francis Xavier, Royal Mil. Coll., Univ. of Montreal), Hon. LL.D. (Toronto, Dalhousie, Sir George Williams Univ., Saskatchewan), Hon. D.Eng. (Waterloo); Medal of Freedom (with Bronze Palm). *Leisure interests:* skiing and canoeing. *Address:* Institute for Environmental Studies, University of Toronto, Toronto, Ont. M5S 1A4 (Office); The Wolfe Den, R.R.1, Bolton, Ont. L0P 1A0, Canada (Home). *Telephone:* (416) 594-4981.

SOLANO LÓPEZ, Miguel; Paraguayan diplomatist; b. 16 May 1911; Dir.-Gen. of Culture, Paraguay 1944-45; Dir. Dept. of Org. and Treaties, Ministry of Foreign Affairs 1954; mem. Paraguayan Dels. to UN Gen. Assembly 1955-; Rep. of Paraguay to UN Trusteeship Council 1959-61; Alt. Rep. to UN 1957-65, Perm. Rep. to UN 1965-73; Amb. to U.S.A. 1973-76. *Address:* Ministerio de Relaciones Exteriores, Palacio de Gobierno, Asunción, Paraguay.

SOLDATI, Mario, D.LITT.; Italian writer, film director and actor; b. 17 Nov. 1906; ed. Turin and Columbia Univs.; fmr. corresp. of Il Lavoro; essays on art, articles in various papers and magazines, column in Il Giorno, Milan; films include Piccolo mondo antico, Eugenia Grandet, Malombra, La Provinciale, La Donna del Fiume, La Mano dello Straniero, Policarpo; TV appearances. *Publications include:* America Primo Amore, Racconti, A Cena col Commendatore, Lettere da Capri, La Messa dei Villeggianti, Il Vero Silvestri, La Confessione, Storie di Spettri, La Busta Arancione, Le due Città 1964, L'Attore 1970, The Malacca Cane 1971, La Sposa Americana 1977. *Address:* c/o Arnoldo Mondadori Editore, Via Bianca di Savoia 20; Via Cappuccio 14, 20123 Milan, Italy (Home).

SOLDATOV, Aleksandr Alekseyevich; Soviet diplomatist; b. 27 Aug. 1915, Prigorody, Vologda Region; ed. Liebkneht Pedagogical Inst., Moscow; fmrly. Counsellor, Canberra, Senior Political Adviser to Soviet Del. to UN, Rep. to UN Trusteeship Council; mem. del. to UN 1952-55; Dir. American Dept. Ministry of Foreign Affairs 1955-60; Dep. Del. Geneva Foreign Ministers Conf. 1959; Amb. to United Kingdom 1960-66; Deputy Minister of Foreign Affairs 1966-68; Amb. to Cuba 1968-70; mem. CPSU Central Auditing Comm. 1966-71; Rector, Inst. of Int. Relations 1971-. *Address:* Moscow State Institute of International Relations, 53 Metrostroevskaya ulitsa, Moscow, U.S.S.R.

SOLH, Rashid; Lebanese lawyer and politician; b. 1926, Beirut; ed. Coll. des Frères des Ecoles, Chrétiennes, Coll. Al Makassed, Faculty of Law; Beirut; successively Judge, Pres. of the Labour Arbitration Council, Examining Magistrate, Attorney-Gen. of the Charéi Tribunal; Ind. mem. Chamber of Deputies for Beirut 1964, 1972; Prime Minister 1974-75. *Address:* Chambre des Députés, Place de l'Etoile, Beirut, Lebanon.

SOLH, Takieddine; Lebanese politician and diplomatist; b. 1909; ed. American Univ. of Beirut, and Univ. Saint Joseph, Beirut; fmr. Civil Servant; fmr. Counsellor, Embassy to United Arab Republic, and to the Arab League; mem. Chamber of Deputies 1957, 1964-; Pres. Foreign Affairs Comm. 1964-; Minister of the Interior 1964-65; Prime Minister, Minister of Finance 1973-74; Pres. L'Appel Nat. Party (Al Nida'a El Quaoumi). *Address:* rue de Damas, Beirut, Lebanon.

SOLIS RUIZ, José; Spanish politician and trade unionist; b. 1913; Barrister and mil. lawyer; fmr. mem. Falange labour and trade union org., organized First Nat. Congress of Workers 1946; fmr. Civil Gov., Pontevedra and Guipuzcoa; Nat. Del. of Syndicates 1951-57; Minister and Sec.-Gen. of Falange 1957-69, Minister of Labour 1975-76. *Address:* Alcalá 44, Madrid, Spain.

SÖLLE, Horst; German politician; b. 3 June 1924, Leipzig; ed. Karl Marx Univ., Leipzig; Official, Ministry of Transport of G.D.R.; mem. staff Cen. Cttee. of Socialist Unity Party (SED) 1952-62, Cand. mem. 1963-76, mem. 1977-; Sec. of State, Ministry of Foreign and Inter-German Trade of G.D.R. 1962-65; Minister of Foreign Trade, G.D.R. 1965-; Medal of Merit of G.D.R.; Patriotic Order of Merit in Silver and Gold, Order Banner of Labour. *Address:* Ministerium für Aussenhandel, 108 Berlin, Unter den Linden 46/60, German Democratic Republic.

SOLLERO, Lauro; Brazilian pharmacologist; b. 23 Jan. 1916; ed. Ginásio Raul Soares, Ubá, Minas Gerais, and Universidade do Brasil; Prof. in Dept. of Pharmacology, School of Medicine and Surgery, Rio de Janeiro 1953-, Faculty of Medicine, Univ. do Brasil 1963-; Fellow, Guggenheim Foundation, Rockefeller Foundation. *Publications include:* Curarização, Orgão elétrico do Electrophorus electricus, Serotonina, Bloqueadores A-drenérgicos. *Address:* Laboratório de Farmacologia, Faculdade Nacional de Medicina, Avenida Pasteur 458, Rio de Janeiro, RJ, Brazil.

SOLODOVNIKOV, Aleksandr Vasiliyevich; Soviet theatrical director and journalist; b. 14 Aug. 1904; ed. Moscow Inst. of Literature, Philosophy and History; designer in shoe factory 1924-30; ed. of local paper 1930-34; student 1934-37; on staff of Pravda 1937-38; Deputy Chair. Art Cttee. U.S.S.R. Council of Ministers 1938-45; with Tass Agency 1945-48; Dir. Bolshoi Theatre, Moscow 1948-51; Deputy Ed. Sovietskaya Kultura 1951-54; with Ministry of Culture 1954-55; Dir. Moscow Arts Theatre 1955-63; Adviser to Ministry of Culture 1963-67; Dir. Maly Theatre 1967-; mem. Collegium, Ministry of Culture; mem. CPSU; Order of the Red Banner of Labour; three medals. *Address:* c/o Ministry of Culture, Neglinnaya ulitsa 15, Moscow, U.S.S.R.

SOLOMENTSEV, Mikhail Sergeyevich; Soviet politician; b. 7 Nov. 1913; ed. Leningrad Polytechnic Inst.; Mem. CPSU 1940-; Engineer, Workshop Foreman, Chief Engineer, Factory Dir., Lipetsk and Chelyabinsk Regions 1940-54; Sec., later Second Sec. Chelyabinsk Regional Cttee. of CPSU 1954-57; Chair. Chelyabinsk Nat. Econ. Council 1957-59; First Sec. Karaganda Regional Cttee. CP of Kazakhstan 1959-62, Second Sec. Cen. Cttee., CP of Kazakhstan 1962-64; First Sec. Rostov District Cttee. of CPSU 1964-66; Sec. CPSU Central Cttee. 1966-67; Head of Dept. of Heavy Industry, CPSU Central Cttee. 1967-71; Chair. Council of Ministers of R.S.F.S.R. July 1971-; mem. Central Cttee. of CPSU 1961-; Cand. mem. Politburo 1971-; Deputy to U.S.S.R. Supreme Soviet 1958-; Order of Lenin (four) Sixty Years of Armed Forces of U.S.S.R. Medal and other decorations. *Address:* R.S.F.S.R. Council of Ministers, 3 Delegatskaya ulitsa, Moscow, U.S.S.R.

SOLOMON, Arthur Kaskel, PH.D., D.PHIL., SC.D.; American professor of biophysics; b. 26 Nov. 1912, Pittsburgh, Pa.; s. of Mark K. Solomon and Hortense Nattans; m. Mariot Fraser Mathews 1972; one s. one d. from previous m.; ed. Univs. of Princeton, Harvard and Cambridge; Research Fellow, Cavendish Lab., Cambridge 1937-39; Research Assoc., Physics and Chem., Harvard Univ. 1939-41; Research Fellow, Biological Chem., Harvard Medical School 1940-42, Asst. Prof. of Physiological Chem. 1946-57, Assoc. Prof. Biophysics 1957-68, Prof. Biophysics 1968-; Chair. Comm. on Higher Degrees in Biophysics, Harvard 1959-, Council on the Arts, Harvard 1973-76; Fellow, American Acad. of Arts and Sciences; Sec.-Gen. Int. Union for Pure and Applied Biophysics 1961-72; mem. Exec. Cttee., Int. Council of Scientific Unions 1966-72; mem. U.S. Nat. Comm. for UNESCO 1969-74; Science Policy Adviser to Thai Govt. 1969-72; mem. Editorial Board Journal of General Physiology 1958-; mem. Board of Int. Orgs. and Programs, Nat. Acad. of Sciences 1973-, Chair. 1977; mem. American Chem. Soc., American Physiol. Soc., Biophysics Soc., Soc. Gen. Physiology; Pres. Read's Inc. 1961-77; mem. U.S. Del to Gen. Assembly of UNESCO, Paris 1978; U.S. Del. to 17th Gen. Assembly of Int. Council of Scientific Unions, Athens 1978; Fellow American Acad. of Arts and Sciences; Trustee, Inst. of Contemporary Art, Boston 1946-, Pres. 1965-71; Overseer, Museum of Fine Arts, Boston 1978-; Order Andres Bello, Venezuela 1974. *Publications:* Why Smash Atoms 1940, and over two hundred scientific articles. *Leisure interests:* art, travel. *Address:* Biophysical Laboratory, Harvard Medical School, 25 Shattuck Street, Boston, Mass. (Office); 27 Craigie Street, Cambridge, Mass., U.S.A. (Home). *Telephone:* (617) 732-1954 (Office); (617) 556-3057 (Home).

SOLOMON, Ezra, PH.D.; American professor of finance and government official; b. 20 March 1920, Rangoon, Burma; s. of Ezra and Emily Rose Solomon; m. Janet Cameron 1949; three d.; ed. Univs. of Rangoon and Chicago; Faculty Mem., Univ. of Chicago 1948-60; Dean Witter Prof. Finance, Stanford Univ. 1961-71, 1973-; Dir. Int. Cen. for Advancement of Man. Educ., Stanford Univ. 1961-64; mem. Council of Econ. Advisers to Pres. Nixon 1971-73 (resigned); Dir. Kaiser Aluminum and Chemical Corpn., Encyclopaedia Britannica Inc., United Finance Corpn., S-G Securities Inc.; served U.S. Naval Reserves 1942-47; mem. American Econ. Assen., American Finance Assen. *Publications:* The Management of Corporate Capital 1960, Metropolitan Chicago—An Economic Analysis 1960, The Theory of Financial Management 1963, Money and Banking (5th edn.) 1968, Wall Street in Transition 1974, The Anxious Economy 1975, An Introduction to Financial Management 1977; editor: journals including Business Finance 1969-. *Leisure interest:* reading. *Address:* 775 Santa Ynez, Stanford, Calif. 94305, U.S.A.

SOLOMON, Yonty, B.MUS.; British (b. South African) concert pianist; b. 6 May 1938, Cape Town, South Africa; s. of David and Chaze Riva Solomon; ed. Univ. of Cape Town; studied with Dame Myra Hess in London, Guido Agosti in Rome, Charles Rosen (*q.v.*) in U.S.A.; Concert début in Wigmore Hall, London 1963; recitals and concertos in U.K., Netherlands, U.S.A., Canada, Romania, South Africa; gave first performances of works dedicated to him by Richard Rodney Bennett (*q.v.*), Wilfred Mellers, Merilaainen, Wilfred Josephs; given solo performing rights by composer Kaikhosru Sorabji 1976-77 for all his works; many TV and radio engagements; many recitals devoted to Charles Ives, J. S. Bach (Das Wohltemperierte Klavier and Klavierübung), Janáček, Boulez, Granados, Albéniz and much rarely performed piano music; first performance of unpublished scores by K. S. Sorabji 1978; Prof. of Piano, Royal Coll. of Music, London 1978-; Scholarships from Univ. of Cape Town; Harriet Cohen Beethoven Medal 1962, Commonwealth Award. *Publications:* Schumann Symposium 1973, Bach's "48", Analysis and Historical Survey 1972. *Leisure interests:* collecting botanical books, growing camellias. *Address:* 43 Belsize Park Gardens, London, NW3 4JJ, England. *Telephone:* 01-586 3983.

SOLOMON, Patrick Vincent Joseph; Trinidadian diplomatist, politician and physician; b. 12 April 1910; ed. St. Mary's Coll., Trinidad, Queen's Univ., Belfast; practised medicine in Scotland, Ireland, Wales, Leeward Islands and Trinidad 1934-43; mem. Legis. Council, Trinidad 1946-50, 1956-61; Deputy Pol. Leader, People's Nat. Movement 1956-66; Minister of Educ. and Culture 1956-60; Minister of Home Affairs 1960-64; Deputy Prime Minister 1962-66; Minister of Foreign Affairs 1964-66; Perm. Rep. of Trinidad and Tobago to UN 1966-71, Vice-Pres. Gen. Assembly 1966, Chair. Fourth Cttee. of Gen. Assembly 1968, Vice-Chair. Sea-Bed Cttee. 1971-; High Commr. to U.K. and Amb. to Norway, Finland, Denmark, Switzerland, Fed. Repub. of Germany, France, Netherlands, Italy, Luxembourg 1971-75, EEC and Belgium 1971-73; Pres. of Assembly, IMCO (UN) 1976-77. *Address:* c/o IMCO, 101-104 Piccadilly, London, W1V 0AE, England. *Telephone:* 01-499 9040.

SOLOMON, Richard L., A.B., M.SC., PH.D.; American professor of psychology; b. 2 Oct. 1918; s. of Frank Solomon and Rose Roud; divorced; two d.; ed. Brown Univ.; Instructor, Brown Univ. until 1947; Prof. Harvard Univ. until 1960; Prof. Psychology, Univ. of Pennsylvania 1960-74, 1975-, Princeton Univ. 1974-75; mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences. *Leisure interests:* hiking, mountaineering, summer camp counselling. *Address:* 3815 Walnut Street, Philadelphia, Pa. 19174, U.S.A.

SOLOUKHIN, Vladimir Alekseyevich; Soviet writer; b. 14 June 1924, Alepino Stavrovsky; ed. Gorky Inst. of Literature; Mem. CP 1952-; Order of Red Banner of Labour, Badge of Honour. *Publications:* (first publs. 1945); verse: Rain in the Steppes 1953, Saxifrage, Streamlets on the Asphalt 1959, Tale of the Steppes 1960, How to Drink the Sun 1961, Postcards from Viet-Nam 1962; novels: Birth of Zernograd 1955, The Goldmine 1956, Beyond the Blue Seas 1957, Country Roads of Vladimir (lyrical diary) 1958, The Drop of Dew 1963, A Lyrical Story 1964, Mother—Stepmother 1971; short stories: The Loaf of Bread 1965, A Slavonic Notebook 1965, 1972, The Third Hunt 1968, Kukushkin's Son 1969, White Grass 1971, The Rule of the Tocsin 1972, The Ponds of Olepin 1973, The Straw Cordon 1974, Selected Works 1974; poetry: Don't Seek Shelter from the Rain 1967, The Steppe 1968, A Winter's Day 1969, Selected Lyrics 1970, Argument—(Verse) 1972. *Address:* Union of U.S.S.R. Writers, 52 Ulitsa Vorovskogo, Moscow, U.S.S.R.

SOLOW, Robert Merton, PH.D.; American economist; b. 23 Aug. 1924, Brooklyn, N.Y.; s. of Milton and Hannah Solow; m. Barbara Lewis 1945; two s. one d.; ed. Harvard Univ.; Asst. Prof. of Statistics, Massachusetts Inst. of Technology 1949-53, Assoc. Prof. of Econs. 1954-57, Prof. of Econs. 1958-73, Inst. Prof. 1973-; Senior Econo-

mist, Council of Econ. Advisers 1961-62; Marshall Lecturer, Cambridge Univ. 1963-64; De Vries Lecturer, Rotterdam 1963, Wicksell Lecturer, Stockholm 1964; Eastman Visiting Prof., Oxford Univ. 1968-69; mem. Nat. Comm. on Tech., Automation and Econ. Progress 1964-65, Presidential Comm. on Income Maintenance 1968-69; mem. Board of Dirs. Fed. Reserve Bank of Boston 1975-, Chair. 1979-; Fellow, Center for Advanced Study in Behavioral Sciences 1957-58; Vice-Pres. American Econ. Assen. 1968, Pres. 1979, Vice-Pres. American Assen. for Advancement of Science 1970; Pres. Econometric Soc. 1964; mem. American Acad. of Arts and Sciences, mem. of Council Nat. Acad. of Sciences 1977-; corresp. mem. British Acad.; David A. Wells Prize, Harvard Univ. 1951, John Bates Clark Medal, American Econ. Assen. 1961; Hon. LL.D. (Chicago) 1967, (Lehigh) 1977, (Brown) 1972, Hon. Litt.D. (Williams Coll.) 1974, Dr. h.c. (Paris) 1975, Hon. D.Litt. (Warwick) 1976. *Publications:* Linear Programming and Economic Analysis 1958, Capital Theory and the Rate of Return 1963, Sources of Unemployment in the United States 1964, Price Expectations and the Behavior of the Price Level 1970, Growth Theory: An Exposition 1970. *Leisure interest:* dinghy sailing. *Address:* Department of Economics, Massachusetts Institute of Technology, Cambridge, Mass.; 528 Lewis Wharf, Boston, Mass., U.S.A. (Home). *Telephone:* 617-253-5268; 617-227-4436.

SOLTÉSZ, István; Hungarian engineer and politician; b. 1927, Hámor, County Borsod; joined Communist Party 1947; ed. Tech. Univ. of Sopron; taught as asst. at Miskolc Univ. of Heavy Industry; held positions in Ministry of Educ. and Ministry of Foundry and Engineering; Dir. Fémthermia Co. of Apc 1954 and Metallochemia Co. 1955-64; Dir. metal Dept. Csepel Iron and Metal Works 1964, Deputy Dir.-Gen. 1965-74, Dir.-Gen. 1974-78; Minister of Foundry and Mechanical Eng. 1978-; mem. standing CMEA Cttee. for metal foundry; mem. Soviet-Hungarian Cttee. for Tech. and Scientific Co-operation; Labour Order of Merit. *Address:* Ministry of Foundry and Mechanical Engineering, 1024 Budapest, Martirok utja 85, Hungary. *Telephone:* 122-690.

SOLTI, Sir Georg, K.B.E.; British (naturalized) musician; b. 21 Oct. 1912, Budapest; s. of Mor Stern Solti and Teresa Rosenbaum; m. 1st Hedwig Oeschli 1946; m. 2nd Anne Valerie Pitts 1967; two d.; ed. High School of Music, Budapest, and studied with Zoltán Kodály, Béla Bartók and Ernst von Dohnányi; Conductor and Pianist, State Opera, Budapest 1930-39; General Music Dir., Munich State Opera 1946-52; Gen. Music Dir., Frankfurt Opera, Perm. Conductor of Museum Concerts, Frankfurt 1952-61; Music Dir., Royal Opera House, Covent Garden 1961-71, Guest Conductor 1971-; Principal Conductor and Artistic Dir. (designate) London Philharmonic Orchestra 1979; Music Dir., Orchestre de Paris 1971-75, Chicago Symphony Orchestra 1970-; has also appeared as Guest Conductor in Europe with Berlin, Vienna and Munich Philharmonic Orchestras, Vienna Symphony Orchestra, Orchestre Nationale Conservatoire Orchestra, Paris, and Chicago Symphony Orchestra at Salzburg Festival, with London Philharmonic Orchestra, London Symphony Orchestra, and Chicago Symphony Orchestra at Edinburgh Festival, at Glyndebourne Festival, at Covent Garden; has appeared in U.S.A. with San Francisco Opera, Philadelphia Orchestra, New York Philharmonic Orchestra, Chicago Lyric Opera, Los Angeles Symphony Orchestra, Chicago Symphony Orchestra, and at Metropolitan Opera; First Prize ■ a pianist, Concours International, Geneva 1942; Grand Prix Mondiale du Disque 1959, awarded 12 times; and numerous other record awards; Hon. C.B.E. 1968, Hon. K.B.E. 1971; Hon. D.Mus. (Leeds 1971, Oxford 1972 and Yale 1974); Commdr. Légion d'honneur 1974. *Address:* Chalet Haut Pré, Villars-sur-Ollons, Vaud, Switzerland.

SOLVAY, Jaques Ernest; Belgian business executive; b. 4 Dec. 1920, Ixelles; s. of Ernest-John Solvay and Marie Graux; m. Marie-Claude Boulin 1949; one s. three d.; ed. Univ. of Brussels; joined Solvay Cie. 1950, mem. Board 1955, Chair. June 1971-; Dir. Société Générale de Banque 1965-; Chair. Soltex Polymer Corpn 1974-; Hon. Pres. Fédération des Industries Chimiques de Belgique; Pres. Belgo-British Union; Chevalier de l'Ordre de Leopold; Hon. K.B.E. *Leisure interest:* orchid growing. *Address:* Solvay Cie. S.A., rue de Prince Albert 33, B-1050 Brussels.

SØLVHØJ, Hans, M.A.; Danish politician and radio administrator; b. 11 July 1919, Copenhagen; s. of Johannes Sølvhøj and Dagmar Elizabeth Sølvhøj; m. Ruth Finsen 1952; one s.; ed. Elsinore Public School, Univ. of Copenhagen; Teacher at Elsinore Public School 1945-47; Producer, Radio Denmark 1947, Dir., Talks and Current Affairs Dept. 1953-61, Dir.-Gen. 1961-64; Sec. of State for Cultural Affairs 1964-66, Joint Minister of State for Foreign Affairs 1966-68; Dir.-Gen. Danish Radio 1968-76; Lord Chamberlain and Lord Steward of the Royal Household; Pres. Danish-German Soc.; Commdr., Danish Order of Dannebrog. *Leisure interests:* tennis, gardening, reading. *Address:* Rødehus, Mørdrup, 3060 Espergaerde, Denmark. *Telephone:* 03232115.

SOLZHENITSYN, Aleksandr Isayevich; Soviet writer; b. 11 Dec. 1918, Rostov-on-Don; m. 1st Natalya Reshetovskaya (separated 1970), 2nd Natalya Svetlova; three s.; ed. Rostov Univ. and Correspondence Course in Literature, Moscow Univ.; joined Army 1941, attended artillery school, commissioned 1942, served at front as Commdr. of Artillery Battery, and twice decorated for bravery; sentenced to eight years in ■ forced labour camp 1945-53; contracted, later cured of cancer; in exile in Siberia 1953-57; officially rehabilitated 1957; taught mathematics at secondary school, Ryazan; expelled from Writers' Union of U.S.S.R. Nov 1969; mem. American Acad. of Arts and Sciences 1969-; expelled from U.S.S.R. Feb. 1974; Prix du Meilleur Livre Etranger (France) for The First Circle and Cancer Ward 1969; Nobel Prize for Literature 1970; Hon. U.S. Citizen 1974; Hon. Fellow, Hoover Inst. 1975. *Publications:* One Day in the Life of Ivan Denisovich 1962 (film 1971), Matryona's Home and An Incident at Krechetovka Station 1963 (short stories), For the Good of the Cause 1964 (short story), The First Circle (publ. U.S.A. and U.K. 1968), Cancer Ward (U.S.A. and U.K. 1968), The Easter Procession (short story), The Love Girl and the Innocent (play, U.K.) 1969, Collected Works (6 vols.) 1969, 1970, In the Interests of the Cause 1970, Stories and Prose Poems 1971, August 1914 1971, The Gulag Archipelago Vol. I 1973, Vol. II 1974, Vol. III 1976, Letter to Soviet Leaders 1974, Quiet Flows the Don: The Enigma of ■ Novel 1974, Candle in the Wind (play), When the Calf Horns the Oak revised edn. 1975, The Nobel Prize Lecture 1975, Lenin in Zürich 1975, Détente (with others) 1976, Prussian Nights (poem trans. by Robert Conquest) 1977. *Address:* c/o Harper and Row Inc., 10 East 53rd Street, New York, N.Y. 10022, U.S.A.

SOMARE, the Rt. Hon. Michael Thomas, P.C., C.H.; Papua New Guinea politician; b. 9 April 1936; ed. Sogeri Secondary School, Admin. Coll.; Teacher various schools 1956-62; Asst. Area Educ. Officer, Madang 1962-63; Broadcasts Officer, Dept. of Information and Extension Services, Wewak 1963-66, Journalist 1966-68; mem. House of Assembly for East Sepik Regional 1968-; Parl. Leader Pangu Party 1968-; Deputy Chair. Exec. Council 1972-73, Chair. 1973-; Chief Minister Papua New Guinea 1972-75, Prime Minister Sept. 1975-; Minister for Nat. Resources 1976-77, for Public Service Comm. and Nat. Planning Aug. 1977-; Acting Minister for Police Jan. 1978-; Chair. Board of Trustees, P.N.G.; mem. Second Select Cttee. on Constitutional Devt. 1968-72, Australian Broadcasting Comm. Advisory Cttee. *Address:* Office of the Prime Minister, Waigani, P.O. Wardstrip (Office); Karan, Murik Lakes, East Sepik, Papua New Guinea (Home). *Telephone:* 271610.

SOMMARUGA, Cornelio, LL.D.; Swiss diplomatist; b. 29 Dec. 1932, Rome, Italy; s. of Carlo Sommaruga and Anna-Maria Valagussa; m. Ornella Marzorati 1957; two s. four d.; ed. Rome, Paris, Univ. of Zürich; bank trainee, Zürich 1957-59; joined Diplomatic Service 1960; Attaché, Swiss Embassy, The Hague 1961; Sec. Swiss Embassy, Bonn 1962-64, Rome 1965-68; Deputy Head of Del. to EFTA, GATT and UNCTAD, Geneva 1969-73; Asst. Sec.-Gen. EFTA July 1973-75; Minister plenipotentiary, Div. of Commerce, Fed. Dept. of Public Economy, Berne 1976, Amb. 1977; Pres., UN Econ. Comm. for Europe 1977-78. *Publications:* La posizione costituzionale del Capo dello Stato nelle Costituzioni francese ed italiana del dopoguerra 1957, and numerous articles in journals and periodicals. *Address:* c/o Division of Commerce, Palais Fédéral, CH-3003, Berne (Office); 15 rue de Hôpital, CH-1700, Fribourg, Switzerland (Home). *Telephone:* 61-22-02 (Office); 22-53-50 (Home).

SOMMER, Charles H., B.S.; American chemical executive; b. 24 Sept. 1910, St. Louis, Mo.; s. of Charles H. Sommer and Mary Duella Steele Sommer; m. Jame S. Scudder 1940; one s.; ed. Univs. of Michigan and Arizona; joined Monsanto Co. 1934, Man. Plasticizer and Intermediate Sales 1939-51, Gen. Man., Merrimac Div. 1951-54, Gen. Man. and Vice-Pres. Organic Chemicals Div. 1954-59, mem. Exec. Cttee. 1959-68, Dir. 1959-68, Exec. Vice-Pres. 1959-60, Pres. 1960-68, Chair. Board of Dirs. 1968-75; Trustee St. Louis Univ. 1969-; mem. Board of Dirs. Trans World Airlines, St. Louis Union Trust Co.; mem. Business Council, American Chemical Soc., American Inst. of Chemical Engineers; Vice-Pres. and mem. Exec. Board Boy Scouts of America St. Louis Area Council; mem. Emer. Civic Progress Inc. *Address:* 942 Tirrill Farms Road, St. Louis, Mo. 63124, U.S.A.

SOMMER, Theo, DR.PHIL.; German journalist; b. 10 June 1930, Constance; s. of Theo and Else Sommer; m. 1st Elda Tsilenis 1952; four s.; m. 2nd Heide Grenz 1976; ed. Schwäbisch-Gmünd,

Tübingen, Chicago and Harvard Univs.; Local Ed. Schwäbisch-Gmünd 1952-54; Political Ed. Die Zeit 1958, Deputy Ed.-in-Chief 1968, Ed.-in-Chief 1973-; Lecturer in Int. Relations, Univ. of Hamburg 1967-70; Head of Planning Staff, Ministry of Defence 1969-70; mem. Deutsche Gesellschaft für Auswärtige Politik, mem. Council Int. Inst. for Strategic Studies; Contrib. Editor Newsweek; Commentator German TV, Radio; Theodor-Wolf-Preis 1966. *Publications:* Deutschland und Japan zwischen den Mächten 1935-40, Vom Antikominternpakt zum Dreimächtepakt 1962, Reise in ein fernes Land 1964, Editor Denken an Deutschland 1966, Editor Schweden-Report 1974. *Address:* Die Zeit, Pressehaus, Speersort, Hamburg 1 (Office); Zabelweg 17, Hamburg 67, Federal Republic of Germany (Home). *Telephone:* 32-80-210 (Office); 603-73-00 (Home).

SOMMERFELT, Søren Christian; Norwegian diplomatist; b. 9 May 1916, Oslo; s. of Søren Christian Sommerfelt and Sigrid Nicolaysen; m. Frances Bull Ely 1947; one d.; ed. Oslo Economic High School and Oslo Univ.; entered Norwegian Foreign Service 1941; UN Secr. Div. for Refugees and Displaced Persons 1946-48; First Sec., Copenhagen 1948-50; Counsellor, Norwegian Perm. Del. to NATO 1951-52; Deputy Head, Politico-Econ. Dept., Norwegian Ministry of Foreign Affairs 1953-56, Head 1956-60; Amb., Head, Norwegian Perm. Del. to EFTA, European Office of UN and other int. orgs. at Geneva 1960-68, to Fed. Repub. of Germany 1968-73, to U.S.A. 1973-78, to Italy 1978-; leader numerous trade dels., leader Norwegian Del. to negotiations establishing EFTA 1959; Chair. EFTA Perm. Council 1962, 1966; Chair. GATT Perm. Council 1963-64, leader Norwegian del. to GATT Tariff negotiations (Kennedy Round) 1964-67; Chair. GATT Contracting Parties 1968; Norwegian Rep. CERN Council 1960-68; Chair. Norwegian Del. in negotiations with EEC 1970-72; Order of St. Olav (Norway), Grosses Verdienstkreuz (Fed. Repub. of Germany), North Star (Sweden), Dannebrog (Denmark), Falcon (Iceland), Leopold II (Belgium), Ethiopian Star. *Leisure interests:* Skiing, tennis, shooting. *Address:* Royal Norwegian Embassy, Via delle Terme, Deciane 10, Rome, Italy.

SOMOZA DEBAYLE, General Anastasio; Nicaraguan army officer and politician; b. 5 Dec. 1925, León; s. of late Gen. Anastasio Somoza García (Pres. of Nicaragua 1933-56) and Salvadora Debayle Sacasa; brother of late Col. Luis Somoza Debayle (Pres. of Nicaragua 1956-63); m. Hope Portocarrero Debayle; three s. two d.; ed. Inst. Pedagógico de Managua, La Salle Military Acad., New York, and U.S. Military Acad., West Point; entered Guardia Nacional (Nicaraguan Army) 1941, rose progressively to Commdr. of Nat. Guard 1967-79; fmr. Leader Partido Liberal Nacionalista de Nicaragua; Pres. of Nicaragua 1967-72, 1974-79; Chair. Nat. Emergency Cttee. 1973-74; Special envoy of Nicaragua on several diplomatic missions; fmr. Chair. Board Marina Mercante Nicaragüense, S.A.; Pres. Board Líneas Aéreas de Nicaragua, S.A. (LANICA) till 1966; fmr. Pres. several commercial enterprises (cotton textiles, cement, real estate, etc.); Owner Central American Beet and Seafood Trading Co., Miami, several Nicaraguan and foreign decorations. *Leisure interests:* the army, aviation, sports. *Address:* Sunset Island, Fla., U.S.A.

SON SANN; Cambodian financial administrator; b. 1911, Phnom-Penh; m. Nema Machhwa 1940; five s. two d.; ed. Ecole des Hautes Etudes Commerciales de Paris; Deputy Gov. Provinces of Battambang and Prey-Veng 1935-39; Head of Yuvan Kampuchearath (Youth Movement); Minister of Finance 1946-47; Vice-Pres. Council of Ministers 1949; Minister of Foreign Affairs 1950; Mem. of Parl. for Phnom-Penh and Pres. Cambodian Nat. Assembly 1951-52; Gov. of Nat. Bank of Cambodia 1954-68; Minister of State (Finance and Nat. Economy) 1961-62; Vice-Pres., in charge of Economy, Finance and Planning 1965-67, Pres. Council of Ministers May-Dec. 1967; First Vice-Pres. in charge of Econ. and Financial Affairs 1968; Grand Croix de l'Ordre Royal du Cambodge, Séna yayasedth, Commdr. du Sowathara (Mérite économique), Grand Officier Légion d'honneur, Commdr. du Monisaraphon, Médaille d'or du Règne, Grand Officier du Million d'Eléphants (Laos). *Leisure interest:* Buddhist books.

SON SEN; Cambodian politician; b. c. 1930; ed. Univ. in France; exile in Hanoi 1963; mem. Cen. Cttee. Pracheachan (Cambodian Communist Party); liaison officer between Khmers Rouges and exiled Royal Govt. of Nat. Union in Peking 1970; Chief of Gen. Staff, Khmer Rouge armed forces 1971-79; Third Deputy Prime Minister, Minister of Defence 1975-79.

SONDHEIM, Stephen Joshua; American song writer; b. 22 March 1930, New York City; s. of Janet Fox and Herbert Sondheim; ed. George School, Newtown, Pa., Williams Coll., Williamstown, Mass., private instruction; Pres. Dramatists' Guild 1973; Antoinette Perry Award for Company 1971, Follies 1972, A Little Night Music 1973; Drama Critics' Award 1971, 1972, 1973; television: Topper (co-author) 1953, Evening Primrose (music and lyrics) 1967; lyrics: West Side Story 1957, Gypsy 1959, Do I Hear a Waltz? 1965, Candide 1974; music and lyrics: A Funny Thing Happened on the Way to the Forum 1962, Anyone Can Whistle 1964, Company 1970, Follies 1971, A Little Night Music 1973, The Frogs 1974, Pacific Overtures 1976, Sweeney Todd 1978; screenplay: (with Anthony Perkins) The Last of Sheila 1973; film score: Stavisky 1975. *Address:* c/o Flora Roberts, 65 East 55th Street, Suite 702, New York, N.Y. 10022, U.S.A.

SONDHEIMER, Franz, M.A., PH.D., F.R.S.; British professor of organic chemistry; b. 17 May 1926, Stuttgart, Germany; s. of Max and Ida Sondheimer; m. Betty J. Moss 1958; one step d. (deceased); ed. Highgate School, Imperial Coll. of Science, London, and Harvard Univ.; Associate Dir. of Chemical Research, Syntex S.A., Mexico City 1952-56, Vice-Pres. Research 1961-63; Head of Organic Chem. Dept., Weizmann Inst. of Science, Rehovoth, Israel 1956-64, Rebecca and Israel Sieff Prof. of Organic Chem. 1960-64; Royal Soc. Research Prof., Univ of Cambridge and Fellow Churchill Coll. 1964-67; Royal Soc. Research Prof., Univ. Coll., London 1967-; Visiting Prof., Ohio State Univ. 1958, Rockefeller Univ., New York 1972; Foreign mem. German Acad. of Sciences, Leopoldina 1966; Israel Prize in the Exact Sciences 1960, Corday-Morgan Medal and Prize, Chem. Soc. 1961, Adolf-von-Bayer Denkmünze, Gesellschaft Deutscher Chemiker 1965, Synthetic Organic Chem. Award, Chem. Soc. 1973, A.C.S. Award for Creative Work in Synthetic Organic Chem. 1975. *Publications:* Scientific papers in chemical journals. *Leisure interests:* collecting old chemical books, music, travel. *Address:* Chemistry Department, University College, 20 Gordon Street, London, WC1H 0AJ (Office); 43 Green Street, London, W1Y 3FJ, England (Home). *Telephone:* 01-387 7050 (Office); 01-629 2816 (Home).

SONG YO CHAN, Gen.; Korean army officer and politician; b. 1919; fmr. Commdr. 1st Field Army and Army Chief of Staff; Martial Law Commdr. April 1960; Minister of Defence 1961; Prime Minister 1961-62, Minister of Foreign Affairs 1961; Chair. of Econ. Planning Board 1962; Pres. Inchon Iron and Steel Co., Ltd. 1970-. *Address:* 14-5 Songbuk-tong, Songbuk-ku, Seoul, Republic of Korea.

SONNE, Karl-Heinz, DR. ECON.; German business executive; b. 3 June 1915; ed. Wirtschaftshochschule, Berlin; Mem. of Man. Board Concordia Electrizitäts A.G., Dortmund 1948-56, Chair. of Management Board 1956-62, Bayerische Motoren Werke A.G. Munich 1962-65; fmr. Chair. Management Board Klöckner-Humboldt-Deutz A.G.; mem. Board Fichtel und Sachs 1977-.

SONNEBORN, Tracy M., A.B., PH.D.; American zoologist; b. 19 Oct 1905, Baltimore, Md.; s. of Lee and Daisy (Bamberger) Sonneborn; m. Ruth Meyers 1929; two s.; ed. Johns Hopkins Univ.; Fellow of Nat. Research Council, Johns Hopkins Univ. 1928-30, Research Asst. 1930-31, Research Assoc. 1931-33, Assoc. in Zoology 1933-39; Assoc. Prof. of Zoology, Indiana Univ. 1939-43; Prof. of Zoology, Indiana Univ. 1943-53, Distinguished Service Prof. 1953-76, Distinguished Prof. Emer. 1976-, Chair. Div. of Biological Sciences 1963-64; mem. Editorial Board Journal of Experimental Zoology 1948-60, Genetics 1947-62, Journal of Morphology 1946-49, Annual Review of Microbiology 1954-58, Physiological Zoology 1948-60, Cytologia, Experimental Cell Research 1953-63; Treas. American Soc. of Naturalists 1945-47, Vice-Pres. 1948, Pres. 1949; Vice-Pres. Genetics Soc. of America 1948; Pres. 1949; Pres. American Soc. of Zoologists 1956; Vice-Pres. Soc. for Study of Evolution 1958; Pres. American Inst. of Biological Science 1961; hon. mem. American Soc. of Protozoologists; Genetics Soc. of Japan, French Soc. of Protozoology, Faculty of Biology and Medical Science, Univ. of Chile, Visiting Prof. 1951; mem. Exec. Cttee. American Soc. of Cell Biology 1963-65, Council Nat. Acad. of Sciences 1963-66, American Acad. of Arts and Sciences, Council, American Philosophical Soc. 1977-; Foreign mem. Royal Soc. 1964-; Hon. D.Sc. (Johns Hopkins Univ.) 1957, (Univ. of Geneva) 1975, (Northwestern Univ.) 1975, (Indiana Univ.) 1978; co-winner of Newcomb-Cleveland Research Prize, A.A.A.S. 1946; Kimber Genetics Award of the Nat. Acad. of Sciences 1959; Mendel Centennial Medal, Czechoslovak Acad. of Sciences 1965. *Publications:* The Control of Human Heredity and Evolution (editor) 1965 and over 200 papers and abstracts, chiefly on genetics and paramecium. *Address:* Department of Biology, 220 Jordan Hall, Indiana University, Bloomington, Ind. 47401 (Office); 1305 Maxwell Lane, Bloomington, Ind. 47401, U.S.A. (Home). *Telephone:* (812) 336-5796 (Home).

SONNENFELDT, Helmut, M.A.; American government official; b. 13 Sept. 1926, Berlin, Germany; s. of Dr. Walther H. Sonnenfeldt and Dr. Gertrud L. Sonnenfeldt; m. Marjorie Hecht 1953; two s. one d.; ed. Univ. of Manchester, Johns Hopkins Univ.; went to

U.S.A. 1944; mem. Counterintelligence Corps, U.S. Army, Pacific and European Theaters; with Dept. of State 1952-69, Policy Officer, U.S. Disarmament Admin. 1960-61, Director Office of Research and Analysis for the U.S.S.R. and E. Europe 1966-69; Senior Staff mem. for Europe and East-West Relations, Nat. Security Council 1969-74; Counsellor of Dept. of State 1974-77; Visiting Scholar, School of Advanced Int. Studies, Johns Hopkins Univ. 1977-78; Guest Scholar, Brookings Inst. 1978; Lecturer on Soviet Affairs, Johns Hopkins Univ. School of Advanced Int. Studies; Consultant Washington Center for Foreign Policy Research; Sr. Fellow, Russian Inst., Columbia Univ.; mem. Int. Inst. of Strategic Studies, London, Council of Foreign Relations; govt. Rep. to numerous confs. and meetings abroad; Consultant to int. investments firms and banks. *Address:* 4105 Thornapple Street, Chevy Chase, Md. 20015, U.S.A. *Telephone:* (301) 656-6731.

SONODA, Sunao; Japanese politician; Kamikaze paratroop commander during World War II; mem. House of Reps. for Kumatomo Prefecture; Minister of Health and Welfare 1967-70; Chief Cabinet Sec. 1976-77; Minister of Foreign Affairs Nov. 1977-; Liberal Democratic Party. *Leisure interests:* Japanese martial arts including judo, Kendo and Aikido. *Address:* c/o Ministry of Foreign Affairs, 2-1, Kasumigaseki 2-chome, Chiyoda-ku, Tokyo, Japan.

SOPER, Baron (Life Peer), cr. 1965, of Kingsway; **Rev. Donald Oliver Soper,** M.A., PH.D.; British Methodist minister; b. 31 Jan 1903, London; s. of late Ernest Frankham and Caroline Amelia (Pilcher) Soper; m. Marie Gertrude Dean 1929; four d.; ed. St. Catharine's Coll., Cambridge; Wesley House, Cambridge and London Univ.; Minister to the South London Mission 1926-29, to the Cen. London Mission 1929-36; Superintendent of the West London Mission, Kingsway Hall 1936-78; Pres. of the Methodist Conf. 1953; Alderman, London County Council 1958-65; Chair. Shelter 1974-; Pres. League Against Cruel Sports; Hon. Fellow, St. Catharine's Coll., Cambridge 1966. *Publications:* Christ and Tower Hill, Question Time on Tower Hill, Answer Time on Tower Hill, Christianity and its Critics, Popular Fallacies about the Christian Faith, Will Christianity Work?, Practical Christianity To-Day, Questions and Answers in Ceylon, Children's Prayer Time, All His Grace, It is Hard to Work for God, The Advocacy of the Gospel, Tower Hill, 12.30. *Leisure interests:* music, most games. *Address:* West London Mission, Kingsway Hall, London, W.C.2. England. *Telephone:* 01-405 3246.

SOPWITH, Sir Thomas Octave Murdoch, Kt., C.B.E.; British aeronautical engineer; b. 1888; s. of Thomas Sopwith; m. 1st Hon. Beatrix Marie Leslie Hore-Ruthven 1914 (died 1930); m. 2nd Phyllis Brodie, one s.; founded Sopwith Aviation Co. Ltd. 1912; Chair. Hawker Siddeley Group Ltd. 1935-63, now Pres.; Chair. Soc. of British Aircraft Constructors; Hon. F.R.Ae.S. *Leisure interests:* yachting, shooting, fishing. *Address:* Compton Manor, Kings Somborne, Hampshire, England.

SORATO, Dr. Bruno, D.ECON.; Italian business executive; b. 7 May 1922, Venice; m. Giovanna Coin 1949; one d.; ed. in Rome; Exec. SAVA, Venice 1947-64; Exec. AISA São Paulo 1965-66; Man. Dir. NABALCO Pty. Ltd., Sydney 1967-72; mem. Exec. Cttee. Swiss Aluminium Ltd. 1972-74, Deputy Chair. Exec. Cttee. 1975-. *Address:* Swiss Aluminium Ltd., Feldeggstrasse 4, CH-8034, Zürich, Switzerland. *Telephone:* 34-90-90.

SØRENSEN, Max, DR.JUR.; Danish university professor; b. 19 Feb. 1913, Copenhagen; s. of Jens Martin Sørensen and Christophine (née Poulsen); m. Ellen Jacobsen 1940; ed. Univ. of Copenhagen and Geneva Post-graduate Inst. for International Studies; entered Danish Foreign Office 1938; Attaché, Danish Legation, Berne 1943-44, Sec., London 1944-45; Asst. Chief of Section, Foreign Office, Copenhagen 1945-47; Prof. of Int., Constitutional and Admin. Law, Univ. of Århus 1947-72; Rep. of Danish Govt. on Human Rights Comm. of UN 1948-51, and Comm. on Int. Criminal Jurisdiction 1951; Adviser to Danish Minister for Foreign Affairs at meetings of Cttee. of Ministers, Council of Europe 1949-50; Lecturer, Acad. of Int. Law, The Hague 1952, 1960; Chair. U.N. Sub-Cttee. on Prevention of Discrimination and Protection of Minorities 1954-55; mem. of European Comm. on Human Rights 1955-72 (Pres. 1967), and of ILO Cttee. on Application of Int. Labour Conventions 1954-62, Judge ad hoc Int. Court of Justice 1968-69 (North Sea continental shelf cases); mem. Perm. Court of Arbitration, The Hague; mem. Inst. de Droit Int.; Legal Adviser to Danish Ministry for Foreign Affairs 1956-72; Judge in Court of Justice of European Communities 1973-; Dr. Jur. h.c. (Kiel) 1964. *Publications:* Les sources du droit international 1946, Elements of International Organization (in Danish) 1952, Denmark and the United Nations 1956, Manual of Public International Law 1968, Constitutional Law (in Danish) 1969. *Address:* Tretommervej 21, 8240 Risskov, Denmark; 29 rue J-B Esch, Luxembourg. *Telephone:* Århus 06-17-82-64; Luxembourg 47-17-73.

SORENSEN, Theodore Chaikin, B.S.L., LL.B.; American lawyer and government official; b. 8 May 1928, Lincoln, Nebraska; s. of Christian A. and Annis Chaikin; m. Gillian Martin 1969; three s. one d.; ed. Univ. of Nebraska; Attorney, Fed. Security Agency 1951-52; Staff Researcher, Joint Cttee. on Railroad Retirement 1952-53; Asst. to Senator John F. Kennedy 1953-61; Special Counsel to Presidents Kennedy and Johnson 1961-64; now lawyer, Paul, Weiss, Rifkind, Wharton & Garrison, New York 1966-; Ed.-at-Large Saturday Review 1966-69; Commentator Nat. Affairs Metromedia Channel 5, 1971-73; Democrat. *Publications:* Decision-Making in The White House 1963, Kennedy 1964, The Kennedy Legacy 1970, Watchmen in the Night: Presidential Accountability After Watergate 1975. *Address:* 345 Park Avenue, New York, N.Y. 10022, U.S.A. *Telephone:* (212) 644-8000.

SORGENICHT, Klaus, DR.RER.POL.; German politician; b. 24 Aug. 1923, Wuppertal-Elberfeld; m.; one c.; ed. Volksschule and Deutsche Akad. für Staats- und Rechtswissenschaft; Mayor of Güstrow 1946, mem. local council 1946-49; Head of Dept., Mecklenburg Ministry of Interior 1949-51; Head of Dept., Ministry of Interior of G.D.R. 1951-52; Head of Dept. for Co-ordination and Control of Labour in admin. service of G.D.R. 1952-54; Head of Dept., Cen. Cttee. of Sozialistische Einheitspartei Deutschlands (SED) 1954-; Head of State and Law Section of Cen. Cttee.; mem. KPD 1945, SED 1946, Volkskammer 1958-; mem. Comm. on Law and Constitution 1963-; mem. State Council 1963-; Vaterländischer Verdienstorden, in Bronze and Silver, Orden Banner der Arbeit and other decorations. *Address:* Staatsrat der Deutschen Demokratischen Republik, 102 Berlin, Marx-Engels-Platz, German Democratic Republic.

SORIANO, Raphael S., B.ARCH.; American architect; b. 1 Aug. 1907, Rhodes, Greece; ed. Coll. St. Jean, Rhodes and Univ. of Southern California; went to U.S. 1924; naturalized 1930; engaged on City Planning Project with Neutra 1933; carried out special projects for Los Angeles County Regional Planning Comm. 1935; private architectural practice 1936-; Prof. Washington Univ. 1962-63; developed industrialized packaged structures of aluminium, steel and plastic, steel houses; works exhibited at Paris Int. Exhbn. 1937, New York Museum of Modern Art 1952, VII Pan-American Congress, Havana, VIII, Mexico City, São Paulo Int. Exhbn. 1953, Munich Int. Exhbn. 1955, Toledo (Ohio) Museum of Art 1956, Moscow Int. Congress 1958; Speaker World Design Conf., Tokyo 1960; Honor Awards Judge for Mexican Architecture 1964; Fellow American Inst. of Architects; mem. American Assn. Univ. Profs.; hon. mem. Soc. de Arquitectos Mexicanos; VII Pan-American Congress Award 1951, American Inst. of Architects Nat. Awards 1951, 1956, 1958, 1960, Progressive Architecture Award, A.I.A. Sunset Awards 1957, 1959, Architectural Record Award 1956, S. Calif. A.I.A. Awards 1949, 1951, 1957, House and Home Award 1960, Life-A.I.A. Award 1962, A.I.A. and City of Los Angeles Grand Prix Award 1967. *Projects:* Site planning, apartments, hospitals, harbour facilities, research laboratories, office and medical buildings, community centres, horticultural centres and shops. *Address:* 21 Main Street, Belvedere, Tiburon, Calif. 94920 (Office); P.O. Box 128, Belvedere, Tiburon, Calif. 94920, U.S.A. (Home). *Telephone:* (415) 435-0472 (Home).

SŎRM, František, DR. ING. D.SC.; Czechoslovak scientist; b. 28 Feb. 1913, Prague; s. of František Šorm and Kamila Durdilová; m. Zora Drápalová 1940; one s. one d.; Prof. of Organic Chem., Charles Univ., Prague; mem. Czechoslovak Acad. of Sciences 1952-, Gen. Scientific Sec. 1952-60, Vice-Pres. 1961, Pres. of the Acad. 1962-69; Deputy to Nat. Assembly 1960-69; mem. Central Cttee. CP of Czechoslovakia 1962-69; mem. Ideological Comm. of Central Cttee. 1963-69; Deputy to House of the People Fed. Assembly Jan.-Dec. 1969; Dir. of the Academy's Inst. of Organic Chem. and Biochem. 1950-70, Inst. of Organic Chem. and Biochem. 1970-; hon. mem. Romanian and Hungarian Acads. of Sciences; mem. U.S.S.R., German, Leopoldina, Bulgarian, Polish, Bavarian and Royal Danish Acads. of Sciences; hon. mem. British and Belgian Chemical Socs., American Acad. of Arts and Sciences; Foreign mem. U.S. Nat. Acad. of Sciences; Laureate of the State Prize 1950, 1952, 1958; Fritzsche Medal, American Chemical Soc. 1959; Stas Medal, Belgian Chemical Soc. 1962, etc.; Dr. h.c. (Univ. Libre de Bruxelles, Lomonosov Univ., Moscow); Order of Labour 1958, 1963; Hon. Gold Plaque of Czechoslovak Acad. of Science for services to science and to mankind 1968. *Publications:* Papers on Chemistry of natural products and biochemistry of proteins and nucleic acids. *Address:*

Institute of Organic Chemistry and Biochemistry, Flemingovo nám. 2, Prague 6 (Office); Jalodvorská 2889/B15, 142 00, Prague 4, Czechoslovakia (Home).

SORSA, (Taisto) Kalevi; Finnish politician; b. 21 Dec. 1930, Keuruu; s. of Kaarlo O. Sorsa and Elsa S. (née Leinonen); m. Elli Irene Lääkäri 1953; ed. School of Social Science (now Univ. of Tampere); Chief Ed., Vihuri 1954-56; Literary Ed. Tammi (publishing house) 1956-59; Programme Asst. Specialist UNESCO 1959-65; Sec.-Gen. of Finnish UNESCO Cttee. 1965-69; Sec.-Gen. Social Democratic Party 1969-75, Pres. 1975-; mem. Parl. 1970-; Minister for Foreign Affairs 1972; Prime Minister 1972-75, 1977-79; Deputy Prime Minister and Minister for Foreign Affairs 1975-76; Grand Decoration of Honour (Austria), Grand Cross, Order of the Dannebrog (Denmark), Golden Star of the Order of Star of Friendship between Peoples (German Democratic Repub.), Grand Cross of the Order of Orange-Nassau (Netherlands), Grand Cross of the Order of Merit of Polish People's Repub., Grand Cross of the Order of St. Marinus, Grand Cross of the Order of Merit of Senegal, Grand Cross of the Royal Order of the Northern Star (Sweden), etc. *Leisure interests:* the arts, social and international questions, outdoor life. *Address:* Suomen Sosialidemokraattinen Puolue, Paasivuorenkatu 3, 00530 Helsinki 53, Finland.

SORSBY, Arnold, C.B.E., M.D., F.R.C.S.; British surgeon and ophthalmologist; b. 10 June 1900, Bialystock, Poland; s. of Jacob and Elka Sourasky; m. Charmaine V. Guinness 1943; ed. Leeds, London and Edinburgh Univs.; Dean Medical School Royal Eye Hospital 1934-38; Ophthalmic Surgeon London Jewish Hospital 1927-43; Hampstead Gen. Hospital 1928-43; and West End Hospital for Nervous Diseases 1933-38; Hunterian Prof. Royal Coll. of Surgeons 1933, 1941; Pres. London Jewish Hosp. Medical Society 1937; Montgomery Lecturer, Royal Coll. of Surgeons 1933, 1941; Pres. London Hosp. 1931-66; Research Prof. Ophthalmology, Royal Coll. of Surgeons and Royal Eye Hosp. 1943-66; Vice-Pres. Int. League against Trachoma 1952-60; mem. Expert Advisory Panel on Trachoma, WHO 1954-69; Hon. Dir. Wernher Group for Research in Ophthalmological Genetics Research, Medical Research Council 1953-66; Dir. Medical Ophthalmology Unit, Lambeth Hosp. 1963-66; Hon. Adviser in Ophthalmology, Royal Nat. Inst. for the Blind 1963-66; Emer. Research Prof. in Ophthalmology, Royal Coll. of Surgeons 1966-; Consultant Adviser, Ministry of Health 1966-71; Middlemore Prize, British Medical Assen. 1936; Keith Medal, Royal Coll. of Surgeons 1966, Grimshaw Award, Nat. Fed. of the Blind 1967. *Publications:* A Short History of Ophthalmology 1933, 1948, Modern Trends in Ophthalmology Vol. I 1940, Vol. II 1948, Vol. III 1955, Vol. IV 1967, Vol. V 1973, Medicine and Mankind 1942, 1950, Ophthalmia Neonaturum 1945, The Causes of Blindness in England and Wales 1950, Ophthalmic Genetics 1951, 1970, Systemic Ophthalmology 1951, 1958, Clinical Genetics 1953, 1973, The Causes of Blindness in England 1948-1950 1953, The Causes of Blindness in England 1951-1954 1956, Emmetropia and its Aberrations 1957, Antibiotics and Sulphonamides in Ophthalmology 1960, Refraction and its Components during the Growth of the Eye 1961, Refraction and its Components in Twins 1962, Modern Ophthalmology (4 vols.) 1963-64, 1970, The Incidence and Causes of Blindness in England and Wales 1948-1962 1966, A longitudinal study on refraction and its components during growth 1970, The Incidence and Causes of Blindness in England and Wales 1963-68 1973, Tenements of Clay 1974, Diseases of the Fundus Oculi 1975. *Address:* 19 Parham Court, Grand Avenue, Worthing BN11 5AH, Sussex, England. *Telephone:* Worthing 40607.

SOSA DE LA VEGA, Manuel; Mexican airline executive; b. 24 July 1916, San Luis Potosí; s. of Manuel Sosa Gómez and the late Raquel de la Vega de Sosa; m. Cristina Elízaga 1945; two s. three d.; ed. Mexico and complementary courses in U.S.A.; joined Mexicana Airlines 1939-, Pres. and Chief Exec. 1967-; Pres. IATA 1976-77; Cavalliere della Repubblica Italiana; Chevalier, Légion d'honneur 1978. *Leisure interests:* golf, swimming. *Address:* Compañía Mexicana de Aviación, S.A., Balderas 36, Apdo. 901, México 1, D.F. (Office); Avenida Glorieta Sur 29, Club de Golf México, México 22, D.F., Mexico (Home).

SOSNOWSKI, Leonard, D.SC.; Polish physicist; b. 19 Feb. 1911, Tver (now Kalinin), Russia; s. of Napoleon and Eleonora Sosnowski; m. Jadwiga Sosnowska 1932; two s. one d.; ed. Warsaw Univ.; Docent 1948-50, Assoc. Prof. 1950-56, Full Prof. 1956-; Corresp. mem. Polish Acad. of Sciences 1960-69, mem. 1969-, Chair. Scientific Council of Inst. of Physics, Semiconductor Dir., Inst. of Physics of the Polish Acad. of Sciences 1965-; Head of Dept. of Solid State Physics, Inst. of Experimental Physics of Warsaw Univ. 1953-; mem. Editorial Staff Acta Physica Polonica, Solid State Electronics; mem. Polish Physical Soc. 1932-, IUPAP Pres. 1978-; State Prize 1st Class 1975, 1978; Knight's Cross, Order of Polonia Restituta 1954, Officer's Cross 1958, Commdr.'s Cross 1964; Order of Banner of Labour, 1st Class 1970; State Prize, 1st Class 1972; Medal of 30th Anniversary of People's Poland 1974; research on physics of semiconductors. *Address:* Ul. Puławska 1 m. 8, 02-515 Warsaw, Poland. *Telephone:* 49-81-46.

SÖTÉR, István; Hungarian university professor, literary historian and novelist; b. 1913, Szeged; m. Veronika Jász 1939; ed. Budapest, Univ. de Paris à la Sorbonne and Ecole Normale Supérieure, Paris; Dir., Inst. of Literary History, Hungarian Acad. of Sciences 1957-; Rector, Lóránd Eötvös Univ. Budapest 1963-66; Pres. Int. Comparative Literature Assen. ICLA 1970-73, Vice-Pres. Hungarian PEN Club; mem. Hungarian Acad. of Sciences; Kossuth Prize; Dr. h.c. (Paris) 1973, Officier Ordre des Arts et Lettres 1974. *Publications:* novels and short stories: Fellegjárás (Walking in the Clouds) 1939, A templomrabló (The Robber of the Church) 1942, A Kisértet (The Ghost) 1945, Bünbeesés (The Fall) 1947, Hidszakadás (The Broken Bridge) 1948, Edenkert (The Eden) 1961, Az elveszett bárány (The Lost Lamb) 1974, Bakator 1976; critical essays and historical monographs: Jókai Mór 1942, Játék és valóság (Play and Reality) 1946, Romantika és realizmus 1965, Eötvös József 1953, Világtájak 1957, Madártávlat 1959, Nemzet és haladás (Nation and Progress) 1963, Aspects et parallélismes de la littérature hongroise 1966, Tisztuló tükrök 1966, Az ember és müve 1971, Werthertöl Szilveszterig 1975, The Dilemma of Literary Science 1973. *Leisure interest:* gardening. *Address:* 1118 Budapest, Ménesi ut 11-13, Hungary. *Telephone:* 451-156.

SOTO, Jesús-Rafael; Venezuelan artist; b. 5 June 1923; ed. School of Fine Arts, Caracas; Dir., School of Fine Arts, Maracaibo, Venezuela 1947-50; in Paris since 1950; early exponent of "optical art"; various films made on works in field of kinetic art and vibrations since 1958; one-man exhbns. at Caracas 1949, 1957, 1961, Paris 1956, 1959, 1962, 1965, Brussels 1957, Essen 1961, Antwerp 1962, Stuttgart 1964, New York 1965, Retrospective Exhbn., Signals, London 1965; represented in perm. collections including: Tate Gallery, London, Museum of Fine Arts, Caracas, Albright-Knox Art Gallery, Buffalo, Cali Inst. of Fine Arts, Cali, Colombia. Stedelijk Museum, Amsterdam, Museum of Contemporary Arts, São Paulo, Moderna Museet, Stockholm, Kaiser Foundation, Cordoba, Argentina, Palace of Fine Arts, Brussels, Kröller-Müller Museum, Otterloo, Holland, Museum of Modern Art, Jerusalem; numerous prizes including Wolf Prize, São Paulo Bienal 1963, David Bright Foundation Prize, Venice Biennale 1964. *Major works include:* sculpture for garden of School of Architecture, Univ. City of Caracas, two murals and sculpture for Venezuelan pavilion, Brussels Exhbn. 1958. *Address:* 68 rue de Turenne, 75003 Paris, France.

SOTOMAYOR, Antonio; Bolivian painter; b. 1904, Chulumani; s. of Carmen Celina Meza and Juan Sotomayor; m. Grace La Mora Andrews 1926; ed. La Paz School of Applied Arts; awarded first prize of Nat. Exposition of Painting 1921; F.R.S.A. *Works include:* El Crucifijo, Copacabana, Lavanderas, Funeral Aimara, Alacitas, Madre, Rezando Reposo, Historical Murals Palace Hotel and Sharon Building, San Francisco, Murals at Sonoma Mission Inn, Calif., Mural El Tigero, Hillsborough, Calif.; murals Peruvian Pavilion and terra cotta fountain Pacific Area, Theme Building, Golden Gate, Int. Exposition 1939-40, Murals, San Francisco; Art Faculty, Mills Coll. and Calif. School of Fine Arts; Mural Altarpiece, St. Augustine Church, Pleasanton, Calif., Glass Mosaic Facade, Hillsdale Methodist Church, Calif.; Mural, Matson Navigation Co., San Francisco, Calif.; backdrop for San Francisco Civic Auditorium Concerts; Altarpiece, Church of St. Francis, Nuevo Progresso, Guatemala; Mural, Peruvian Embassy, Washington, D.C.; Chapel Altarpiece, La Casa de los Pobres, Tihuana, Mexico; Award of Honor (City and County of San Francisco) 1978. *Publications:* Pinturas interpretativas de indígenas de Bolivia 1929, Pinturas con motivos mejicanos 1930, Khasa Goes to the Fiesta 1967, Balloons 1972. *Leisure interests:* music, travel. *Address:* 3 Le Roy Place, San Francisco, Calif. 94109, U.S.A. *Telephone:* (415) 673-6193.

SOTOUDEH, Fathollah, M.S.; Iranian engineer and politician; b. 1924, Teheran; s. of Ali Akbar and Mah Talat; m. Azar Hamidi 1960; one s. one d.; ed. Teheran Polytechnic and New York Univ., U.S.A.; fmr. employee, Plan Org.; Acting Dir. Vanak Metalworks 1959-64; Chair. of Board, Iranian Fisheries 1964; Minister of Posts, Telegraph and Telephone 1964-74; Chair. Board of Dirs. Construction Bank, Iranian Nuclear Energy Co. *Leisure interests:* study in fields of engineering and management; sport, especially hunting and mountaineering.

SOULAGES, Pierre; French painter; b. 24 Dec. 1919, Rodez; m. Colette Llaurens 1942; ed. Lycée de Rodez; exhibited abstract painting since 1947 in Salon des Surindépendants, Salon de Mai et Réalités Nouvelles; one-man exhbn., Lydia Conti Gallery, Paris

1949, Birch Gallery, Copenhagen 1951, Stangl Gallery, Munich 1952, Kootz Gallery, New York 1954-65, Gimpel Gallery, London 1955, Galerie de France, Paris 1956, 1960, 1963, Knoedler Gallery 1968; exhibited in int. festivals including Biennales of Venice and São Paulo, and the itinerary of the Guggenheim Collection, the Carnegie Inst., Pittsburgh, The New Decade at the Museum of Modern Art, New York, Tate Gallery, London, etc.; also décors for theatres and ballet; and lithographs and engravings. Works in Museums of Modern Art, Paris, and N.Y., Tate Gallery, London, Guggenheim Museum, N.Y., Phillips Gallery, Washington, Museum of Modern Art, Rio de Janeiro, museums in many American cities and in Europe; retrospective exhbns. Hanover, Essen, The Hague, Zürich 1960-61, Ljubljana 1961, Massachusetts Inst. of Tech. 1962, Copenhagen Glyptothek 1963, Fine Arts Museum, Houston 1966, Musée Nat. d'Art Moderne, Paris 1967; Carnegie Inst., Pittsburgh, Albright Knox Art Gallery, Buffalo, Musée de Québec, Musée d'Art Contemporain, Montreal 1968, Oslo, Aalborg, Neuchâtel, Charleroi 1973, Musée Dynamique, Dakar 1974, Gulbenkian Foundation, Lisbon, Museo de arte contemporaneo, Madrid, Musée Fabre, Montpellier, Museo de Arte Moderno, Mexico City 1975, Museu de Arte Moderna, Rio de Janeiro, Museo de Arte Moderno, Caracas 1976; Museu de Arte Contemporaneo, São Paulo 1976; Officier Légion d'honneur; Grand Prix, Tokyo Biennale 1957, Carnegie Prize 1964, Grand Prix des Arts de la Ville de Paris 1975, Rembrandt Prize 1976. *Address:* 18 rue des Trois-Portes, Paris 5e, France.

SOULIOTI, Stella; Cypriot lawyer and politician; b. 1920, Limassol; sister of Michael Cacoyannis (*q.v.*); d. of Panayiotis Cacoyannis; m. Demetrios Souliotis 1949; one d.; ed. Cyprus, Egypt and Gray's Inn, London; joined Women's Auxiliary Air Force, Nicosia and served in Middle East 1943-46; called to the Bar, London 1951; law practice, Limassol 1952-60; Minister of Justice 1960-70, concurrently Minister of Health 1964-66; Law Commr. 1971; Co-ordinator of Foreign Aid to Cyprus Refugees 1974-; Adviser to Greek Cypriot Negotiator on Cyprus Intercommunual Talks 1976-; Chair. Cyprus Overseas Relief Fund 1977-; Pres. Cyprus Red Cross, Cyprus Scholarship Board; Vice-Pres. Cyprus Anti-Cancer Soc.; Hon. Vice-Pres. Int. Fed. of Women Lawyers; LL.D. h.c. Nottingham Univ. 1972. *Leisure interests:* reading, music, theatre. *Address:* 97 Ayii Omoloyitae Street, Nicosia, Cyprus.

SOUPAULT, Philippe; French writer; b. 2 Aug 1897, Chaville; m. Renée Niemeyer 1937; two d.; ed. Univ. de Paris à la Sorbonne; fmr. Prof. Swarthmore Coll., Pa., U.S.A.; Strassburger Prize 1932, Prix Italia 1958, 1963, Grand Prix de Poésie (Acad. Française) 1972, Grand Prix de la Soc. des Gens de Lettre 1972. *Publications:* Poetry: Les Champs Magnétiques 1919, Westwego 1922, Georgia 1926, Poésies complètes 1937, L'arme secrète 1947, Message de l'île déserte 1948, Chansons 1950, Sans phrases 1953, Poèmes et Poésies 1973; novels: Le Bon apôtre 1923, Les frères Durandeau 1925, En joue! 1925, Le Coeur d'or 1927, Le Nègre 1927, Les dernières nuits de Paris 1928, Les Moribonds 1934, biographies of Henri Rousseau, Charles Baudelaire 1927, Paolo Uccello 1928, William Blake 1929, Lautréamont 1931, Souvenirs de James Joyce 1943; plays: La fille qui faisait des miracles 1951, Comment dresser une Garce 1954, Tous ensemble au bout du monde 1955, Rendezvous 1957, La nuit de temps 1962, Alibis 1969, Etranger dans la nuit 1978; essays: Profils Perdus 1963, Eugène Labiche 1964, Le Sixième Coup de Minuit 1972. *Leisure interest:* reading. *Address:* 11 rue Chanez, 75016 Paris, France. *Telephone:* MIR. 8400.

SOUPHANOUVONG; Laotian politician; b. (as Prince Souphanouvong) 1902; half-brother of Prince Souvanna Phouma (*q.v.*); ed. Lycée Saint-Louis (Paris), Ecole Nationale des Ponts et Chaussées; studied eng. in France; returned to Laos 1938 and became active in the Nationalist Movement; joined Pathet Lao and fought against the French; formed Nationalist Party (Neo Lao Hak Sat) in Bangkok 1950; Leader of the Patriotic Front; Minister of Planning, Reconstruction and Urbanism 1958; arrested 1959, escaped May 1960, rejoined Pathet Lao Forces, became Leader; Pathet Lao del., Geneva Conf. on Laos 1961-62; Vice-Premier and Minister of Econ. Planning 1962, absent, returned 1974; Chair. Joint Nat. Political Council 1974-75; Pres. of Lao People's Democratic Repub. Dec. 1975-. *Address:* Office of the President, Vientiane, Laos.

SOUSTELLE, Jacques, D. ÈS L.; French scientist and politician; b. 3 Feb. 1912, Montpellier; s. of Jean Soustelle and Germaine (Blatière) Soustelle; m. Georgette Fagot 1931; ed. Ecole normale supérieure; various scientific missions to Mexico 1932-34, 1935-36, 1939; Asst. Dir. Musée de l'Homme, Paris 1937; joined Gen. de Gaulle in London 1940; French Nat. Cttee. Del. in Central America, Mexico and West Indies 1941-42; Nat. Commr. for Information 1942-43; Dir.-Gen. Special Services, Algiers 1943-44; Commissaire of Repub., Bordeaux 1944; Minister of Information 1945; Minister for the Colonies 1945; mem. Constituent Assembly 1945-46; Sec.-Gen. of Rassemblement du Peuple Français 1947-51; mem. French Parl. for Lyon 1951-59; Gov.-Gen. of Algeria 1955-56; leader, Gaullist group in Nat. Assembly 1956-58; returned to Algeria May 1958; Minister of Information July 1958-Jan. 1959; Minister attached to Prime Minister ■ Minister for Sahara and Atomic Questions 1959-60; mem. Cen. Cttee. U.N.R. 1958-60; Del.-Gen. Org. commune des régions sahariennes 1959-60; Pres. Information centre on Problems of Algeria and Sahara 1960; Political Dir. Voici Pourquoi 1960; warrant issued for arrest for subversion 1962; in exile, mainly in Italy and Switzerland 1961-68; returned to France after general amnesty Oct. 1968; Dir. of Studies, Ecole Pratique des Hautes Etudes 1969-; Founder-Pres. Mouvement Nat. Progrès et Liberté 1970; mem. Nat. Council of Scientific Research 1971-; mem. Lyons City Council 1971-; mem. Nat. Assembly for Lyon 1973-; joined Reformist group in Nat. Assembly 1974; French rep. to Council of Europe 1973-; in charge of Special Mission to Prime Minister 1975; Officier Légion d'honneur; Hon. C.B.E. *Publications:* Envers et contre tout, La vie quotidienne des Aztèques 1955, 1962, Aimée et souffrante Algérie 1956, L'espérance trahie 1962, Sur une route nouvelle 1964, La Page n'est pas tournée 1965, L'Art du Mexique ancien 1966, Les quatre soleils 1967, Vingt-huit ans de Gaullisme 1968, la longue Marche d'Israël 1968, Les Aztèques 1970, Lettre ouverte aux victimes de la décolonisation 1973, Archéologie et Anthropologie 1976. *Address:* c/o 25 rue du Président-Edouard-Herriot, Lyon 1er, (Rhône), France. *Telephone:* 28-17-55.

SOUTHAM, Gordon Hamilton, O.C., B.A.; Canadian civil servant; b. 19 Dec. 1916, Ottawa; s. of Wilson Mills Southam and Henrietta Alberta (née Cargill); m. 1st Jacqueline Lambert-David 1940 (dissolved 1968), three s. one d.; m. 2nd Gro Mortensen 1968 (dissolved 1978), one s. one d.; ed. Ashbury Coll., School, Trinity Coll., Toronto and Christ Church, Oxford; Officer, Second World War, British and Canadian Armies; Reporter The Times, London 1945-46; Editorial Writer Ottawa Citizen 1946-47; joined Dept. of External Affairs 1948; Second Sec., Stockholm 1949-53, Ottawa 1953-59; Chargé d'affaires, Warsaw Mar. 1959-60, Amb. 1960-62; Head Information Div., Dept. of External Affairs 1962-64; Dir. Southam Press Ltd. 1964-; Co-ordinator, Nat. Arts Centre 1964-67, Dir.-Gen. 1967-77; Chair., Festival Canada Cttee. 1978-; Hon. LL.D. (Univ. of Trent, Carleton Univ.) 1978. *Leisure interests:* the arts, sailing, tennis, skiing. *Address:* 300 Queen Elizabeth Driveway, Apartment 7c, Ottawa K1S 3M6. Canada. *Telephone:* 238-6611.

SOUTHARD, Frank Allan, Jr., B.A., PH.D., LL.D.; American economist; b. 17 Jan. 1907, Cleveland, Ohio; s. of Frank A. Southard and May L. Bowsher; m. Mary I. Hay 1941; ed. Pomona Coll., and Univ. of Calif.; Instructor in Econs. Univ. of Calif. 1930-31, Asst. Prof. of Econs. Cornell Univ. 1931-39, Prof. 1939-48, Chair. of Dept. of Econs. 1946-48; Researcher in Int. Finance, Carnegie Endowment 1934; Senior Econ. Analyst, U.S. Tariff Comm. 1935; Guggenheim Fellow, Latin America 1940; Asst. Dir., Div. of Monetary Research, Treasury Dept. 1941-42; served U.S. Naval Reserve, principally as Financial Adviser, Allied Force H.Q. Mediterranean 1942-46; Dir. Office of Int. Finance, Treasury Dept. 1947-48; Assoc. Dir. of Research and Statistics, in charge of int. work, Board of Govs. Fed. Reserve System 1948-49; Special Asst. to Sec. of Treasury and U.S. Exec. Dir. IMF 1949-62; Deputy Man. Dir. IMF 1962-74; Alt. Gov. IMF and IBRD 1948-62; Dir. Atlantic Council, Population Crisis Cttee.; Dir. and Pres. Per Jacobsson Foundation; Senior Assoc. Kearns Int., Washington; Officer Legion of Merit, Officier Légion d'honneur; Hon. O.B.E. *Publications:* American Industry in Europe 1931, Canadian-American Industry (with others) 1936, Foreign Exchange Practice and Policy (with others) 1940, Some European Currency and Exchange Experiences 1943-46 1947, Finances of European Liberation—With Special Reference to Italy 1946; various articles and published speeches. *Leisure interests:* snorkelling, swimming, shell collecting. *Address:* 1701 Pennsylvania Avenue, N.W., Washington, D.C. 20006 (Office); 4620 North Park Avenue, Chevy Chase, Md. 20015, U.S.A. (Home). *Telephone:* (202) 387-7500 (Office); (301) 986-1263 (Home).

SOUTHBOROUGH, 3rd Baron, cr. 1917; **Francis John Hopwood,** Kt.; British company director; b. 7 March 1897, London; s. of Francis J. S. Hopwood, 1st Baron Southborough and Florence Emily Black; m. Audrey E. D. Money 1918; one s. one d.; ed. Westminster School; Sub-Lieut., R.N.V.R. in First World War, served at Admiralty and Foreign Office, seconded to staff of Irish Convention, Dublin 1917; later Sec. to War Trade Advisory Cttee.; joined Royal Dutch Shell Group 1919; Pres. Asiatic Petroleum Corpn., in U.S.A. (also rep. Petroleum Board) 1942-46; Man.-Dir. Shell Petroleum Co. Ltd. and N. V. de Bataafsche Petroleum Maatschappij 1946-57; Chair. Shell Oil Co. 1951-57; Dir. The Shell Transport and Trading Co. Ltd. 1946-70, Man. Dir. 1951-70; fmr. Dir. The Shell Petroleum Co. Ltd., Shell Petroleum N.V.; Commdr.

of the Order of Orange Nassau. *Leisure interests:* reading, architecture, furniture. *Address:* Flat 3, 33 Chesham Place, London, SW1X 8HB, England. *Telephone:* 01-235 8732.

SOUTOU, Jean Marie Léon; French diplomatist; b. 18 Sept. 1912; ed. Univ. de Paris à la Sorbonne; entered Ministry of Foreign Affairs 1943, served Switzerland 1943-44, Yugoslavia 1945; Admin. to Minister of Foreign Affairs 1950; Sec. of Foreign Affairs 1951; Asst. Dir. Cabinet of M. Mendès-France 1954-55; E. European Sub-Dir. to Minister of Foreign Affairs 1955-56; Minister-Counsellor, Moscow 1956-58; Consul-Gen., Milan 1958-61; Dir. European Affairs, Ministry of Foreign Affairs 1961-62, Dir. African Affairs 1962-66; Insp.-Gen. Diplomatic and Consular Corps 1966-71; Amb. to Algeria 1971-75; Perm. Rep. to the European Communities 1975-76; Sec. Gen., Ministry of Foreign Affairs 1976-; Commandeur Légion d'honneur. *Address:* c/o Ministère des Affaires Etrangères, Quai d'Orsay, Paris, France.

SOUVANNA PHOUMA, H.H. Prince; Laotian engineer and politician; b. 7 Oct. 1901, Louang-Phrabang; s. of H.H. Prince Bounkhong and H.H. Princess Thongsi; half-brother of Prince Souphanouvong (q.v.); m. Claire Alline Allard (divorced 1969, died 1976); two s. two d.; ed. Coll. Paul Bert and Lycée Albert Sarraut, Hanoi, Univs. of Paris and Grenoble; entered Public Works Service of Indo-China 1931; Engineer at Phoukhoun 1940-41, at Luang Prabang 1941-44; Chief Engineer, Bureau technique à la Circonscripton Territoriale des Travaux Publics du Laos 1944-45; Principal Engineer (1st Class) of the Public Works Service of Indo-China; Minister of Public Works 1950-51; Prime Minister, Pres. of the Council, Minister of Public Works and of Planning 1951-54; Vice-Pres. of the Council and Minister of Nat. Defence and Ex-Servicemen 1954-56; Prime Minister, Pres. of the Council, Minister of Nat. Defence and Ex-Servicemen, of Foreign Affairs and of Information 1956-57, Prime Minister 1957-58; Amb. to France 1958-59; Pres. Nat. Assembly 1960; Prime Minister, Minister of Defence and Foreign Affairs Aug.-Dec. 1960; Leader of Neutralist Govt. 1960-62; Prime Minister 1962-75; Minister of Defence and Veterans' Affairs 1962, Minister of Foreign Affairs 1964, Minister of Rural Devt. 1971 (all concurrently); Adviser to the Government Dec. 1976-; Grand Cross Ordre du Million d'Eléphants, Grand Officier Légion d'honneur, etc. *Leisure interest:* bridge. *Address:* c/o Office of the Prime Minister, Vientiane, Laos.

SOUZA, Francis Newton; Indian painter; b. 12 April 1924, Goa; s. of Joseph Newton Souza and Lily Mary Antunes; m. 1st Maria Figueredo 1947 (divorced 1964); one d.; m. 2nd Liselotte Kristian (in common law); three d.; m. 3rd Barbara Zinkant 1965 (divorced 1977); one s.; ed. St. Xavier's Coll. and J. J. School of Art, Bombay, Central School of Art, London, École des Beaux Arts, Paris; one man exhbns. in London and major cities of England, in Paris, Stockholm, Copenhagen, Johannesburg and principal cities of Germany and U.S.A., Switzerland and U.A.E.; retrospective exhbns. in London 1951, New Delhi 1965, Leicester 1967, Detroit 1968, Minneapolis Int. Art Festival 1972; represented in Baroda Museum, Nat. Gallery, New Delhi, Tate Gallery, London, Wakefield Gallery, Haifa Museum, Nat. Gallery, Melbourne, etc.; several awards. *Publications:* Nirvana of a Maggot in Encounter, Words and Lines (autobiography) 1959, Statements 1977. *Leisure interest:* cogitating the Bhagavad Gita. *Address:* 148 West 67 Street, New York City, N.Y., U.S.A. *Telephone:* (212) 874-2181.

SOUZA LOPES, Hugo; Brazilian entomologist; b. 5 Jan. 1909, Rio de Janeiro; s. of Carlos H. de Souza Lopes and Mathilde G. de Souza Lopes; m. Jurema Carvalho Lopes 1934; two d.; ed. Escola Nacional de Veterinaria da Universidade Rural do Brasil; qualified Veterinary Practitioner 1933; Asst. Prof. Univ. Rural do Brasil 1933-38, Prof. of Parasitology 1938-64, Prof. Emer. 1964-; Biologist, Inst. Oswaldo Cruz 1950-70, Chief of Entomology Section 1961-64; mem. Brazilian Acad. of Sciences; Premio Costa Lima (Brazilian Acad. of Sciences). *Publications:* research into insects (Diptera: Sarcophagidae, Calliphoridae, Acalypteratae and Memestrinidae) and molluscs. *Leisure interest:* postage stamps. *Address:* Academia Brasileira de Ciencias, Caixa Postal 229-2C-00, Rio de Janeiro RJ (Office); Rua Desembargador Isidro 6, Apr. 601, Tijuca, Rio de Janeiro, RJ, Brazil (Home). *Telephone:* 2686238.

SOUZAY, Gérard (Gérard Marcel Tisserand); French singer; b. 8 Dec. 1920; ed. Coll. de Chinon, Lycée Hoche (Versailles), Lycée Carnot (Paris); debut 1945; since then numerous tours and appearances in Europe, North and South America, South Africa, Australia and Japan; *Appeared in:* The Marriage of Figaro, Metropolitan Opera, New York 1965, in Pelléas et Mélisande, Scala, Milan 1973; radio and television performances; Premier Prix d'Excellence, Paris Conservatoire; Chevalier, Légion d'honneur, Chevalier des Arts et des Lettres. *Address:* 26 rue Freycinet, Paris 16e, France.

SOWEMIMO, Hon. George Sodeinde, LL.B.; Nigerian judge; b. 8 Nov. 1920, Zaria, North Central State (now Kaduna State); s. of P. S. A. and R. Sowemimo; m. 1949; five s. four d.; ed. C.M.S. Grammar School, Lagos and Univ. of Bristol, England; Magistrate 1951-56; Chief Magistrate 1956-59; Chief Registrar Fed. High Court of Lagos 1959, Supreme Court 1960; Judge of High Court, Lagos 1961-70, Justice of Supreme Court 1970-. *Leisure interest:* swimming, tennis, reading. *Address:* Supreme Court of Nigeria, Tafawa Balewa Square, Lagos (Office); 26 Lugard Avenue, Ikoyi, Lagos, Nigeria (Home). *Telephone:* 635980 (Office); 683047 (Home).

SOYINKA, Wole, B.A.; Nigerian playwright and lecturer; b. 13 July 1934, Abeokuta; s. of Ayo and Eniola Soyinka; m.; one s. three d.; ed. Univ. of Ibadan, Nigeria, and Univ. of Leeds, England; worked at Royal Court Theatre, London; Research Fellow in Drama, Univ. of Ibadan 1960-61; Lecturer in English, Univ. of Ife 1962-63; Senior Lecturer in English, Univ. of Lagos 1965-67; political prisoner 1967-69; Artistic Dir. and Head Dept of Theatre Arts, Univ. of Ibadan 1969-72; Research Prof. in Dramatic Literature, Univ. of Ife 1972, now Prof. of Comparative Literature and Head of Dept. of Dramatic Arts; Ed. Ch'Indaba (fmrly. Transition) Accra; Artistic Dir. Orisun Theatre, 1960 Masks; Literary Ed. Orisun Acting Editions; Fellow, Churchill Coll., Cambridge 1973-74; Hon. D.Litt. (Leeds) 1973; Prisoner of Conscience Award, Amnesty Int., Jock Campbell-New Statesman Literary Award 1969. *Publications:* plays: The Lion and the Jewel 1959, The Swamp Dwellers 1959, A Dance of the Forests 1960, The Trials of Brother Jero 1961, The Strong Breed 1962, The Road 1964, Kongi's Harvest 1965, Madmen and Specialists 1971, Before the Blackout 1971, Jero's Metamorphosis 1973, Camwood on the Leaves 1973, The Bacchae of Euripides 1974, Death and the King's Horsemen 1975; novels: The Interpreters 1964, The Forest of a Thousand Demons (trans.), Idanre and Other Poems 1967, A Shuttle in the Crypt 1972, Season of Anomy 1973; non-fiction: The Man Died (prison memoirs) 1972; poetry: Poems of Black Africa (editor) 1975, Ogun Abibman 1977; lectures: Myths, Literature and the African World 1972. *Address:* c/o Department of Dramatic Arts, University of Ife, Ile-Ife, Nigeria.

SPAAK, Fernand Paul Jules, D.EN D., B.A.; Belgian international civil servant; b. 8 Aug. 1923; ed. Univs. of Brussels and Cambridge; Nat. Bank of Belgium 1950-52; Sec. Econ. Div., High Authority of European Coal and Steel Community 1952-54, Exec. Asst. to Pres. of High Authority 1954-58, Dir. Cartels and Concentration Div. 1958-60; Gen. Dir. Supply Agency and Dir. a.i. Safeguards and Controls Euratom 1966-68; Dir.-Gen. of Energy, Comm. of EEC; Head, Del. of Comm. of European Communities to U.S.A. 1975-. *Address:* Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium.

SPADOLINI, Giovanni, LL.D.; Italian journalist and politician; b. 21 June 1925, Florence; writer for Il Messaggero; Political Editor Gazzetta del Popolo 1950-52, of Corriere della Sera 1953-55; Editor Resto del Carlino 1955-68; Editor Corriere della Sera and Corriere d'Informazione 1968-72; Teacher of Contemporary History, Faculty of Political Science, Florence; Minister of the Environment Nov. 1974-Jan. 1976, of Educ. March 1979-; Uff. della Legion d'Onore; Cavaliere di Gran Groce dell'Ordine al Merito della Repubblica. *Publications:* Sorel 1947, Il 1848 realtà e leggenda di una rivoluzione 1948, Ritratto dell'Italia moderna 1949, Lotta sociale in Italia 1949, Il papato socialista 1950, L'opposizione cattolica da Porta Pia al '98 1954, Giolitti e i cattolici 1960, I radicali dell'Ottocento 1962, I repubblicani dopa l'Unità 1962, Un dissidente del Risorgimento 1962, Firenze Capitale 1967, Il Tevere più largo 1967, Storia Fiorentina, Carducci nella storia d'Italia, Il Mondo di Giolitti 1969, Il 20 Settembre nella storia d'Italia 1970, Autunno del Risorgimento 1971. *Address:* c/o Ministry of Education, Rome, Italy.

SPAGHT, Monroe Edward, PH.D.; American oil executive; b. 9 Dec. 1909, Eureka, Calif.; s. of Frederick E. and Alpha (Light) Spaght; three c.; ed. Stanford Univ.; Research Chemist, Technologist, Shell Oil Co., Martinez and Wilmington, Calif. 1933-40, Man. (Devt. and Mfg.) 1940-45; Vice-Pres. Shell Development Co., New York City 1946-49, Pres. Emeryville, Calif. 1949-53; Exec. Vice-Pres. and Dir., Shell Oil Co. 1953-60, Pres. and Dir. 1960-65, Chair. 1965-70, Dir. 1970-; a Man. Dir. Royal Dutch Petroleum Co., Shell Petroleum N.V., Shell Petroleum Co. Ltd. 1965-70, Dir. 1970-; Dir. The Boston Co., American Standard Inc., Inst. Int. Educ. (Chair. 1971-74); Chair. Int. Advisory Board of Chemical Bank; mem. Int. Advisory Council of Wells Fargo Bank; official, scientific and educational orgs.; Commdr. Order of Orange-Nassau 1970, Order of Francisco de Miranda (Venezuela) 1968. *Address:* c/o Shell Centre, London, S.E.1, England.

SPAGNOLLI, Giovanni; Italian politician; b. 26 Oct. 1907; ed. Univ. Cattolica del Sacro Cuore, Milan; fmr. official, Banca Commerciale Italiana; fmr. Sec. Nat. Cttee. of Liberation, Milan; Sec.

Christian Democrat Party 1945-48; Senator 1953-; Under-Sec. for Foreign Trade 1958-60; Vice-Pres. Finance and Treasury Comm. of Senate 1960-63; Minister of Merchant Marine 1963-66, of Posts and Telecommunications 1966-68, of Merchant Marine 1968; Pres. of Christian Democrat Party in Senate 1969-73; Pres. of Senate 1973-76. *Address:* Via dei Monti Parioli 53/A, Rome, Italy. *Telephone:* 874588.

SPAHR, Charles Eugene, B.S.; American oil executive; b. 8 Oct. 1913; ed. Univ. of Kansas and Harvard Univ. Business School; joined Standard Oil Co. (Ohio) 1939, Vice-Pres. (Transportation) 1951, Exec. Vice-Pres. and Dir. 1955, Pres. 1957-69, Chair. 1970-78, now Dir.; Major in Army Corps of Engineers 1942-45; Dir. Supply and Distribution Div. Petroleum Admin. for Defense 1952, Electric Illuminating Co., Repub. Steel Corpn., Nat. City Bank of Cleveland, Cleveland and Ohio Chambers of Commerce, Ohio Bell Telephone Co.; Hon. Dir. American Petroleum Inst.; Trustee Lutheran Hospital, Cleveland Devt. Foundation; mem. Exec. Cttee. Board of Trustees Case Inst. of Technology; Chair. Board of Trustees Baldwin-Wallace Coll.; mem. Exec. Cttee. of the Greater Cleveland Growth Board; mem. Nat. Petroleum Council; fmr. Chair. Plans for Progress Advisory Council; Hon. Dr. Ing. (Fenn Coll.), Hon. LL.D. (Baldwin-Wallace Coll.), Citation for Distinguished Service (Univ. of Kansas). *Address:* 24075 Lyman Boulevard, Shaker Heights, Ohio 44122, U.S.A.

SPANOS, Marcos; Cypriot politician; b. 6 Aug. 1932, Lefkonico; ed. Famagusta Greek Gymnasium, American Acad., Larnaca, Gray's Inn, London; called to the Bar 1956; practised law in Nicosia 1957; Dir.-Gen. Office of the Pancyprian Cttee. of Human Rights 1958, resident corresp. Int. League for the Rights of Man 1959, Recorder, Supreme Constitutional Court 1962-64, Counsel of the Repub., Legal Dept. 1964-67; seconded to Ministry of Labour to establish Arbitration Tribunal 1967, Chair. Arbitration Tribunal 1968; Minister of Labour and Social Insurance 1972-74, 1975-78; founder mem. UN Assn. of Cyprus; Chair. Consultative Cttee. to Cyprus Athletic Org. 1969. *Address:* c/o Ministry of Labour and Social Insurance, Nicosia, Cyprus.

SPARK, Muriel Sarah, O.B.E., F.R.S.L.; British author; b. 1 Feb. 1918, Edinburgh; d. of Bernard Camberg and Sarah Elizabeth Maud (Uezzell); m. S. O. Spark 1937 (dissolved); one s.; ed. James Gillespie's High School for Girls, Edinburgh; Foreign Office 1944-45; Editor The Poetry Review 1947-49; Gen. Sec. Poetry Soc., London; Hon. mem. American Acad. of Arts and Letters; Hon. D.Litt. (Strathclyde) 1971; The Observer story prize 1951, Italia Prize 1962, James Tait Black Memorial Prize for The Mandelbaum Gate 1965. *Publications:* The Fanfarlo and Other Verse 1952, John Masefield (a critical study) 1953, The Comforters 1957, Robinson 1958, The Go-Away Bird and Other Stories 1958, Memento Mori 1959 (play 1964), The Bachelors 1960, The Ballad of Peckham Rye 1960, The Prime of Miss Jean Brodie 1961 (play 1966, film 1969), Voices at Play 1961, Doctors of Philosophy (play) 1963, The Girls of Slender Means 1963, The Mandelbaum Gate 1965, Collected Stories Vol I. 1967, Collected Poems Vol I. 1967, The Public Image 1968, The Very Fine Clock 1968, The Driver's Seat 1970 (film 1974), Not to Disturb 1971, The Hot-house by The East River 1973, The Abbess of Crewe 1974 (film 1977), The Takeover 1976, Territorial Rights 1978, and several critical and biographical works. *Leisure interests:* poetry, friends, music. *Address:* c/o Macmillan & Co. Ltd., Little Essex Street, London, W.C.2, England.

SPARKMAN, John J., LL.B., A.M.; American politician; b. 20 Dec. 1899; ed. Univ. of Alabama; admitted to Alabama Bar 1925; Y.M.C.A. Sec. Univ. of Alabama 1923-25; Instructor, Huntsville Coll. 1925-28; practised as attorney, Huntsville 1925-36; U.S. Commr. 1930-31; mem. Congress 1937-47; U.S. Senator from Alabama 1946-79; Democratic nomination for Vice-Presidency 1952; Chair. Senate Foreign Relations Cttee. 1975-79. *Address:* Huntsville, Ala. 35804, U.S.A. (Home).

SPASSKY, Boris Vasiliyevich; Soviet journalist and chess-player; b. 30 Jan. 1937, Leningrad; m. Marina Shcherbachev 1975; ed. Faculty of Journalism, Leningrad State Univ.; in Leningrad Section of Voluntary Sport Soc., Trud 1959-61; Trainer, Leningrad Section of Voluntary Sport Soc., Locomotiv 1964-; played in numerous individual and command int. chess tournaments; U.S.S.R. Grand Master, Int. Grand Master and World Chess Student Champion 1956, U.S.S.R. Chess Champion 1962, World Chess Champion 1969-72; several decorations. *Address:* State Committee for Sports and Physical Culture of U.S.S.R. Council of Ministers, Skatertny pereulok 4, Moscow, U.S.S.R.

SPÄTH, Lothar; German politician; b. 16 Nov. 1937, Sigmaringen; s. of Friedrich and Helene (née Lillich) Späth; m. Ursula Heinle 1962; one s. one d.; ed. Gymnasium, Heilbronn, State School of Man., Stuttgart; mem. Landtag 1968-; Chair. of CDU group in Stuttgart Landtag; 1972; Rep. of CDU for Baden-Württemberg 1977; Sec. of Interior Feb. 1978, Minister-Pres. of Baden-Württemberg Aug. 1978-. *Publications:* Politische Mobilmachung, Partnerschaft statt Klassenkampf 1976. *Leisure interests:* modern painting and graphics, skating, tennis. *Address:* Staatsministerium Baden-Württemberg, Richard-Wagner-Strasse 15, 7000 Stuttgart 1, Federal Republic of Germany. *Telephone:* 0711-2153-1.

SPEAR, Ruskin, C.B.E., R.A., A.R.C.A.; British artist; b. 30 June 1911, London; s. of Augustus Spear and Jane (née Lemon); m. Hilda Mary Hill 1935; one s.; ed. Royal Coll. of Art; elected London Group 1942, Pres. 1950; Visiting Teacher of Painting, Royal Coll. of Art (retd. 1976); paintings exhibited in many English and Australian art galleries; travelling exhbns. U.S.A.; exhbn. Pushkin Museum, Moscow 1957, also exhibited Europe, S. Africa, New Zealand; works purchased by The Chantrey Trustees, The British Council, The Arts Council, Stratford Memorial Theatre, St. Clement Dane's R.A.F. Memorial Church; executed murals for liner Canberra; numerous portraits incl. Duke of Westminster, Lord Goodman, Sir Harold Wilson, Chief Justice Dalton-Wells of Toronto, Lord Adrian, Lord Rothermere, Archbishop of Canterbury, Dowager Duchess of Devonshire, Sir Aubrey Lewis, Sir Ian Jacob, Lord Olivier, Barbara Castle, Sir Hugh Carleton Greene, Lord Netherthorpe, Sir Maurice Bridgeman, Lord Redcliffe-Maude. *Leisure interest:* music. *Address:* 60 British Grove, London, W4 2PV, England.

SPEDDING, Frank Harold, B.CH.E., M.S., PH.D.; American chemist, physicist and metallurgist; b. 22 Oct. 1902, Hamilton, Ont., Canada; s. of Howard Leslie Spedding and Mary Ann Elizabeth Marshall Spedding; m. Ethel Annie MacFarlane 1931; one d.; ed. Univs. of Michigan and California; Teaching Asst., Univ. of Mich. (Analytical Chem.) 1923-25, Fellow, Analytical Chem. 1925-26; Teaching Fellow in Chem., Univ. of Calif. 1926-29, Instructor in Chem. 1929-30, 1932-34, Nat. Research Fellow in Chem. 1930-32; Guggenheim Professorship, England, Germany, Russia 1934-35; George Fisher Baker Asst. Prof., Cornell Univ., Ithaca, N.Y. 1935-37; Assoc. Prof. of Physical Chem., Head of Physical Chem. Section, Iowa State Univ. 1937-41, Dir. Atomic Project 1942-47, Dir. Inst. for Atomic Research 1945-68, Dir. Ames Lab. of Atomic Energy Comm., Iowa State Univ. 1947-68, Prof. of Physics, Iowa State Univ. 1950, Prof. of Metallurgy 1962, then Prof. Emer. of Chemistry, Metallurgy and Physics, Principal Scientist, Ames Lab. of Atomic Energy Comm. (now Energy Research and Devt. Admin.), Iowa State Univ. 1968-; mem. Cttee. on Radioactive Waste Management Nat. Acad. of Science 1968-; mem. Nat. Acad. of Sciences, Soc. for Applied Spectroscopy; Hon. mem. Soc. of Austrian Chemists; numerous awards including Francis J. Clamer Medal of the Franklin Inst. *Publications:* Editor The Rare Earths 1961; over 230 articles in scientific journals. *Leisure interests:* mountain climbing, camping, gardening, golf. *Address:* Ames Laboratory, Energy Research and Development Administration (ERDA), Iowa State University, Ames, Iowa 50011; 520 Oliver Circle, Ames, Iowa 50010, U.S.A. (Home). *Telephone:* 515-294-2785 (Office); 515-292-1170 (Home).

SPEER, Edgar Boyle; American business executive; b. 28 July 1916, Pittsburgh, Pa.; s. of Edgar B. Speer and Gladys (Kelly) Speer; m. Arlene R. Kline 1946; four s.; ed. Widener Coll., Univ. of Pennsylvania, Harvard Univ.; joined U.S. Steel Corpn. 1938, Gen. Supt. Fairless Works 1956-58, Gen. Man. Steel Operations, Pittsburgh 1958-59, Admin. Vice-Pres. Central Operations 1959-64, Admin. Vice-Pres. Steel Operations 1964-67, Exec. Vice-Pres. Production 1967-69, Dir. 1968-; Pres, 1969-73; Chair. and Chief Exec. Officer 1973-; Dir. American Iron and Steel Inst., Int. Iron and Steel Inst., American Telephone and Telegraph Co., Procter and Gamble Co.; mem. The Business Council, Board of Overseas Univ. of Pennsylvania; Trustee Magee-Womens Hospital, Widener College, Waynesburg College. *Address:* U.S. Steel Corporation, 600 Grant Street, Pittsburgh, Pa. 15230 (Office); Edgewood Road, Fox Chapel, Pittsburgh, Pa. 15215, U.S.A. (Home). *Telephone:* 412-433-1101 (Office); 412-782-0582 (Home).

SPEIDEL, Gen. Hans, DR.PHIL.; German army officer; b. 28 Oct. 1897, Metzingen; s. of Emil Speidel and Amalie née von Klipstein; m. Ruth Stahl 1925; one s. two d.; ed. Univs. of Tübingen and Berlin, Technische Hochschule Stuttgart, Kriegsakademie; regular army officer 1914-45; served 1914-18 war in König Karl Grenadier Regt. and 1939-45 war mainly in staff appts., finally as Chief of Staff to an Army Group under Rommel; arrested by the Gestapo Sept. 1944; Lecturer, Univ. of Tübingen 1949-55; Head of Mil. del. to CED and NATO confs. 1951-55; C.-in-C. German Armed Forces 1955-57; Cmmdr. Allied Land Forces Central Europe 1957-63; Special Counsellor to Fed. Govt. 1963-64; Pres of Foundation Sciences and Politics (Wissenschaft und Politik) 1964-; Ritterkreuz

Königlich-Württembergischen Militärverdienstorden (1914-18), Ritterkreuz des Eisernen Kreuzes (1939-45), Grosses Verdienstkreuz mit Stern und Schulterband 1963; Prof. h.c. 1971; Ehrenbürger der Stadt Metzingen. *Publications:* Invasion 1944—Ein Beitrag zu Rommels und des Reiches Schicksal 1949, Beck's Studien (editor) 1955, Zeitbetrachtungen: Ausgewählte Reden 1969, Gedanken zu antikem und modernem Feldherrntum 1970, Aus unserer Zeit. Erinnerungen; essays on Theodor Heuss, Neidhart von Gneisenau, etc. *Leisure interests:* history, literature, music. *Address:* Am Spitzenbach 21, 534 Bad Honnef/Rhein, Federal Republic of Germany. *Telephone:* Bad Honnef (02224) 3150.

SPÉNALE, Georges, L. en D.; French politician and former colonial administrator; b. 29 Nov. 1913, Carcassonne; s. of Louis Alexandre and Jacqueline (Cantié) Spénale; m. Carmen Delcayré 1935; one s. one d.; ed. Ecole Nat. de la France d'Outre Mer; admin. posts in French Guinea, Upper Volta and Ivory Coast 1938-43; mil. service 1939-40, 1943-45; Head of Offices in Equatorial Africa, Ivory Coast and Cameroon 1946-53; Sec.-Gen. and acting High Commr., Cameroon 1953-55; Deputy Dir. of Political Affairs, French Overseas Depts. 1955-56; Gov. of Overseas Depts. 1956; Principal Private Sec. to Minister of French Overseas Depts. 1956-62; High Commr. in Togo 1957-62; Deputy for Tarn Dept. in Nat. Assembly 1962-77, Senator for Tarn Dept. Sept. 1977-; mem. European Parl. 1964-, Chair. Socialist Group 1974-75, Pres. European Parl. 1975-77, First Vice-Pres. 1977-; Mayor of Saint-Sulpice-la-Pointe 1965-; Officier Légion d'honneur; several African distinctions; Grand Officer, Nat. Order of Ivory Coast. *Leisure interests:* rugby football, poetry. *Address:* Marie de St. Sulpice, 81370 St Sulpice, France. *Telephone:* 57-81-19.

SPENCER, Donald Clayton, PH.D., SC.D.; American professor of mathematics; b. 25 April 1912, Boulder, Colo.; s. of Frank Robert Spencer and Edith (Clayton) Spencer; m. 1st Mary J. Halley 1936, 2nd Natalie Robertson Sanborn 1951; one s. two d.; ed. Univ. of Colorado, Mass. Inst. of Technology and Univ. of Cambridge; Instructor, M.I.T. 1939-42; Assoc. Prof., Stanford Univ. 1942-46, Prof. 1946-50, 1963-68; Assoc. Prof. Princeton Univ. 1950-53, Prof. 1953-63, 1968-, Henry Burchard Fine Prof. 1972-78, Emer. 1978-; mem. Applied Mathematics Group, Nat. Defense Research Cttee., New York Univ. 1944-45; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Bocher Prize of American Mathematical Soc. (joint recipient) 1948; Sc.D. h.c. (Purdue), 1971. *Publications:* (Monographs): Coefficient Regions for Schlickt Functions (with A. C. Schaeffer), American Mathematical Society Colloquium Publications Vol. 35 1950, Functionals of Finite Riemann Surfaces (with M. Schiffer) 1954, Advanced Calculus (with H. K. Nickerson and N. E. Steenrod) 1959, Lie Equations Vol. I: General Theory (with A. Kumpera) 1972; articles in mathematical journals. *Leisure interests:* conservation, hiking. *Address:* 943 County Road 204, Durango, Colorado, 81301, U.S.A. *Telephone:* 303-247-9714.

SPENCER, William I.; American banker; b. 24 July 1917, Mesa County, Colo.; s. of Eugene W. Spencer and Nellie Haviland; m. Kathryn M. Cope 1953; ed. Mesa Coll., Colorado Coll., Colorado Springs and Columbia Univ.; Vice-Pres., Special Industries Div., First National City Corpn. 1954; Senior Vice-Pres. in charge of Special Industries Group 1959; Exec. Vice-Pres. in charge of Specialized Industries Div. 1965, in charge of Operating Group 1968; Pres. First National City Bank (Citibank 1976-) and CITICORP May 1970-. *Leisure interests:* hunting, golf, photography. *Address:* CITICORP, 399 Park Avenue, New York, N.Y. 10022; 12 Beekman Place, New York, N.Y. 10022, U.S.A. (Home). *Telephone:* 212-559-4941 (Office); 212-PL2-3096 (Home).

SPENDER, Sir Percy Claude, K.C.V.O., K.B.E., KT.ST.J., Q.C., LL.B.; Australian diplomatist, international judge, company director and writer; b. 5 Oct. 1897, Sydney; s. of Frank Henry Spender and Mary Spender (née Murray); m. Jean Maud Henderson 1925 (died 1970); two s.; ed. Sydney Univ.; entered public service as Clerk, Sydney Town Hall 1915; enlisted A.I.F. 1918; called to N.S.W. Bar 1923; K.C. 1935; mem. House of Reps. for Warringah N.S.W. 1937-51; mem. Fed. Exec. Council 1939, Vice-Pres. Exec. Council 1940; Minister without Portfolio 1939; Acting Treas. 1939, Treas. 1940; Minister for Army 1940-41; mem. Australian War Cabinet 1940-41; mem. of Govt. and later Opposition mem. Australian Advisory War Council 1941-45; Lieut.-Col. Active List, Australian Mil. Forces 1942-45; Minister for External Affairs 1949-51; Amb. to U.S.A. 1951-58; Chair. Australian del. to British Commonwealth Foreign Ministers Conf., Colombo 1950, London 1950 and to UN 1950; Vice-Pres. Fifth Gen. Assembly 1950-51; Vice-Chair. Australian del. to Seventh, Eighth, Ninth, Tenth and Eleventh Gen. Assemblies, later Chair. 1952-56; Vice-Pres. Japanese Peace Treaty Conf. San Francisco 1951; Chair Australian del. to Twelve Power Conf. to settle Draft Statute for Int. Atomic Energy Agency 1956 and to several other int. confs.; Australian Gov. IMF and World Bank 1951-53 and 1956, Alt. Gov. IMF 1954-55; Judge of the Int. Court of Justice 1958-67, Pres. 1964-67; Leader Australian Del. to 2nd Suez Conf. 1966; mem. Gen. Council, Assicurazione Generali, Italy; Chair. Australian Museum Board of Trustees for National Photographic Index of Australian Birds 1969-; Pres. Sydney Club 1967-; Hon. LL.D., D.C.L., Litt.D.; Grande Ufficiale, Il Merito della Repubblica Italiana; Coronation Medal 1937, 1958. *Publications:* Company Law and Practice 1939, Foreign Policy—the Next Phase 1944, Exercises in Diplomacy 1969, Politics and a Man 1972. *Leisure interests:* swimming, reading, gardening and travelling. *Address:* Headingley House, 11 Wellington Street, Woollahra, Sydney, N.S.W. 2025, Australia. *Telephone:* 32 32 52; 328 71 71.

SPENDER, Stephen, C.B.E.; British writer; b. 28 Feb. 1909; ed. Univ. Coll. School, London, and Univ. Coll., Oxford; poet and critic; Co-editor Horizon 1939-41; Counsellor, Section of Letters UNESCO 1947; Co-editor Encounter 1953-66, Corresp. Editor 1966-67; Consultant in Poetry in English to U.S. Library of Congress 1965-; Visiting Prof. of English, Univ. of Connecticut; Mellon Lecturer, Washington 1965, Northcliffe Lecturer, London 1969; Prof. of English, Univ. Coll., London Oct. 1970-; Pres. English PEN Centre 1975-; Hon. mem. American Acad. Arts and Letters; Hon. D.Litt. (Montpellier Univ.); C.Lit. (R.S.L.) 1977; Queen's Gold Medal for Poetry 1971. *Publications:* Poems in New Signatures 1933, Poems (2 editions). The Destructive Element 1934, The Burning Cactus (stories), Forward From Liberalism 1936, The Trial of ■ Judge 1937, The Still Centre 1939, trans. Ernst Toller's Pastor Hall 1939, The Backward Son 1940, Ruins and Visions 1942, Life and the Poet 1942, Citizens in War and After 1944, European Witness 1946, Poems of Dedication 1946, The Edge of Being 1949, World Within World (autobiography) 1951, The Creative Element 1953, Collected Poems 1955, Engaged in Writing 1957; translation of Schiller's Maria Stuart 1959; The Struggle for the Modern 1962, Selected Poems 1964, The Year of the Young Rebels 1969, The Concise Encyclopedia of English and American Poets and Poetry (edited with Donald Hall) 1970, The Generous Days 1971, Editor A Choice of Shelley's Verse 1971, Editor D. H. Lawrence: Novelist, Poet, Prophet 1973, Love-Hate Relations: A Study of Anglo-American Sensibilities 1974, T. S. Eliot 1975, Editor W. H. Auden: A Tribute 1975, Memoirs: The Thirties and After: Poetry, Politics, People 1978. *Address:* 15 Loudoun Road, London, N.W.8, England.

SPERRY, Roger Wolcott, A.B., M.A., PH.D.; American professor of psychobiology; b. 20 Aug. 1913, Hartford, Conn.; s. of Frances Bushnell Sperry and Florence Kramer; m. Norma Deupree 1949; one s. one d.; ed. Oberlin Coll., Univ. of Chicago and Harvard Univ.; Research Assoc., Yerkes Laboratories Primate Biology 1942-46; Asst. Prof. of Anatomy, then Assoc. Prof. of Psychology, Univ. of Chicago 1946-52; Section Chief Developmental Neurology, Nat. Insts. of Health 1952-53; Hixon Prof. of Psychobiology 1954-; mem. Nat. Acad. of Sciences 1960-, American Acad. of Arts and Sciences 1963-, American Philosophical Soc. 1974-, The Royal Soc. 1976-, Pontifical Acad. of Sciences 1978-; Hon. D.Sc. (Cambridge) 1972, (Univ. of Chicago) 1976; awards include: Warren Medal of Experimental Psychology 1969, DSC Award of American Psychological Assoc. 1971, Calif. Scientist of Year Award 1972, Wakeman Research Award of the Nat. Paraplegic Foundation 1972, Passano Award for Medical Research 1973, Karl Lashley Award of American Philosophical Soc. 1976. *Publications:* Numerous scientific and philosophic publications in professional journals and textbooks. *Leisure interests:* sculpture, natural history, palaeontology. *Address:* California Institute of Technology, 1201 East California Boulevard, Pasadena, Calif. 91109; 3625 Lombardy Road, Pasadena, Calif. 91107 U.S.A. (Home). *Telephone:* 795-6841 (Office); 793-0117 (Home).

SPERTI, George Speri, E.E., SC.D.; American scientist; b. 17 Jan. 1900, Covington, Ky.; s. of George and Caroline (Speri) Sperti; ed. Univ. of Cincinnati; Asst. Chief Meter Laboratories U.G. & E., Cincinnati 1922; Asst. Research Dir. Duncan Electrical and Manufacturing Co., Lafayette 1923; Research Asst. Univ. of Cincinnati 1924-25; Research Prof. and Dir. of Research (also co-founder) Basic Science Research Laboratory, Univ. of Cincinnati 1925-35; mem. Board of Dirs. Gen. Development Laboratories Inc., New York 1930-35, Sperti Lamp Corpn. 1930-40, Sperti Drug Products Inc.; Dir. Sperti Lamp. Corpn. 1935-; Research Prof., Dir. of Research, mem. Board of Trustees, mem. Board of Regents and Pres. St. Thomas Inst.; Principal Consultant War Production Board 1942; mem. Pontifical Acad. Science, American Assen. for Advancement of Science, American Physical Society; mem. Royal Soc. of Arts, London, Founding mem. American Soc. for the Aged and mem. of its Medical & Scientific Cttee.; Board of Dirs. American Council for Int. Promotion of Democracy under God Inc. 1959; Dir. Franklin Corpn.; mem. Emeritus Hall; Hon. mem. Società Italiana

de Fisica; mem. Académie Internationale de Philosophie des Sciences, Brussels; mem. Engineering Soc. of Cincinnati; mem. Academia de Doctores, Madrid; Hon. D.Sc. (Dayton) 1934, (Duquesne) 1936, (Bryant Coll.) 1957, (Thomas More Coll.) 1975, (Xavier) 1978; Hon. L.H.D. (Caldwell Coll.) 1974; Catholic Action Medal 1942, Mendel Medal 1943, Christian Culture Award 1947; Star of Solidarity Third Class of the Italian Repub. 1956; Gold Medal' Univ. Int. degli Studi Sociali "Pro Deo" 1958, William Howard Taft Award 1970, Cincinnati Scientist Engineer-of-the-Year Award 1970; developed type of therapeutic lamp; other developments with selective irradiation and on fluorescent lighting; discovered biological substances Biodynes; specialist in cancer research. *Publications:* Probiotics; co-author Quantum Theory in Biology 1927, and Correlated Investigations in the Basic Sciences; Editor Studies Inst. Divi Thomae. *Leisure interests:* farming, horseback riding. *Address:* St. Thomas Institute, 1842, Madison Road, Cincinnati, Ohio 45206, U.S.A. *Telephone:* 513-861-3460.

SPIEGEL, Samuel P.; American film producer (born in Austria); b. 11 Nov. 1904; ed. Univ. of Vienna; went to U.S.A. 1939; Pres. Horizon American Pictures Inc. 1948-; two Academy Awards (Oscars): *Films produced include:* Tales of Manhattan 1942, The Stranger 1945, We Were Strangers 1948, African Queen 1951, On the Waterfront 1954 The Strange One 1957, The Bridge on the River Kwai 1957, Suddenly Last Summer 1959, Lawrence of Arabia 1962, The Chase 1966, Mister Innocence, The Night of the Generals 1966, The Swimmer 1968, Nicholas and Alexandra 1975, The Last Tycoon 1976. *Address:* c/o Horizon Pictures (U.K.) Ltd., 31 Dover Street, London W.1., England.

SPIEGELMAN, Sol, PH.D., D.SC.; American microbiologist; b. 14 Dec. 1914, New York; s. of Max Spiegelman and Eva Kramer Spiegelman; m. Helen Wahala; two s. one d.; ed. Coll. of City of New York, Columbia Univ. and Washington Univ., St. Louis; Lecturer in Physics at Washington Univ. 1942-44, in Applied Math. 1943-44, Lecturer in Bacteriology School of Medicine, Washington Univ. 1945-46, Asst. Prof. 1946-48; Special Fellow U.S. Public Health Service 1948-49; Prof. of Microbiology, Univ. of Ill. 1949-69; member Center of Advanced Study Univ. of Ill. 1964-69; Dir. Inst. of Cancer Research, Prof. of Human Genetics and Devt., Coll. of Physicians and Surgeons, Columbia Univ. 1969-; mem. Nat. Cancer Advisory Board 1972-; numerous guest lectureships; Fellow American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences, American Soc. for Microbiology, Soc. for Gen. Microbiology (U.K.), Genetics Soc. of America, German Acad. of Sciences etc.; foreign mem. Nat. Acad. of Medicine of Brazil; Hon. D.Sc. (Rensselaer Polytechnic Inst., North-western, St. Louis, Chicago, Glasgow and Ill. Univs., Hebrew Univ. of Jerusalem, City Univ. of New York), Pasteur Award, Ill. Soc. for Microbiology 1963; Alumni Citation Award, Washington Univ. St. Louis 1966; Bertner Foundation Award in Cancer Research 1968. *Publications:* author and co-author of over 300 publications on cell physiology, genetics, developmental biology and molecular biology. *Address:* College of Physicians & Surgeons of Columbia Univ., Inst. of Cancer Research, 701 West 168th Street, New York, N.Y. 10032, U.S.A. *Telephone:* (212) 694-6900/6901; (212) 795-1660/1661.

SPILHAUS, Athelstan Frederick, M.S., D.SC.; American (naturalized) meteorologist and oceanographer; b. 25 Nov. 1911, Cape Town, South Africa; s. of Karl Antonio and Nellie (Muir) Spilhaus; m. Gail Griffin 1964; two s. three d.; ed. Univ. of Cape Town and Mass. Inst. of Technology; went to America 1931, naturalized 1946; research Asst. M.I.T. 1933-35; Asst. Dir. of Technical Services, Union of South Africa Defense Forces 1935-36, Woods Hole Oceanographic Inst. 1936-37, Investigator in Physical Oceanography 1938-60, Assoc. 1960, now Hon. Staff mem.; Asst. Prof. New York Univ. 1937-38, Assoc. Prof. 1939-41, Prof. of Meteorology 1942-48, started Dept. of Meteorology and Oceanography, Chair. 1938-47; Capt. U.S.A.F. 1943, Major 1944, Lieut.-Col. 1946; Dir. of Research, New York Univ. 1946-48; Meteorological Adviser to Govt. of Union of South Africa 1947; Dean and Prof. Inst. of Technology, Univ. of Minnesota 1949-66, Prof. School of Physics 1966; mem. Nat. Science Bd. 1966-72; Pres. Franklin Inst. 1967-69, Aqua Int. Inc. 1969-70; Fellow Woodrow Wilson Int. Center for Scholars 1971-74; with Nat. Oceanic and Atmospheric Admin., Dept. of Commerce 1974-; Royal Meteorological Society, American Inst. of Aeronautics and Astronautics A.A.A.S.; mem. American Meteorological Society, Royal Society of South Africa, American Geophysical Union, American Soc. of Limnology and Oceanography, American Phil. Soc.; mem. U.S. Nat. Cttee. Int. Geophysical Year, Cttee. on Oceanography and Polar Research of Nat. Acad. of Sciences; Trustee Woods Hole Oceanographic Inst., Int. Oceanographic Foundation, Science Service Inc., Aerospace Corpn. 1963-; Dir. Donaldson Co. Inc., American Dynamics Corpn.; U.S. Rep. UNESCO Exec. Board 1954-58; U.S. Commr. Seattle World's Fair 1961-63; inventor of bathythermograph 1938; Legion of Merit 1946; Exceptional Civilian Service Medal, U.S.A.F. 1952; Patriotic Civilian Service Award, Dept. of the Army 1959; Berzelius Medal 1962; Proctor Prize, Scientific Research Soc. of America 1968; ten Hon. Degrees from U.S.A. and U.K. *Publications:* Workbook in Meteorology (textbook) 1942, Weathercraft (for children) 1951, Meteorological Instruments (with W.E.K. Middleton) 1953, Satellite of the Sun 1958, Turn to the Sea 1959, The Ocean Laboratory 1966, Experimental Cities 1966-, Waste Management, The Next Industrial Revolution 1966-; Our New Age (daily and Sunday feature); more than 200 articles in journals and magazines. *Address:* P.O. Box 1063, Middleburg, Va. 21117, U.S.A. (Home).

SPINELLI, Altiero; Italian administrator; b. 31. Aug. 1907, Rome; s. of Carlo and Maria Spinelli-Ricci; m. Ursula Hirschmann 1944; three d.; ed. Univ. of Rome; spent ten years in prison and six years in confinement on account of political activities 1927-43; f. European Federalist Movement, Milan 1943; mem. political secr. N. Italian Action Party 1943; organized first int. federalist confs. Geneva July 1944, Paris, Feb. 1945; mem. Nat. Political Secr., Action Party 1945-46; Sec.-Gen. European Federalist Movement in Italy 1948-62; also mem. exec. cttee. and gen. del. of European Union of Federalists, Paris; Visiting Prof., Bologna Centre of School for Advanced Int. Studies, Johns Hopkins Univ. 1962-66; Dir. Inst. of Int. Affairs, Rome 1966-70; Adviser on European Affairs to Pietro Nenni, Minister of Foreign Affairs, 1968-69; mem. Comm. of European Communities 1970-76, in charge of industrial policy and technology; mem. Chamber of Deputies 1976-; Robert Schumann Prize, F.V.S. Foundation 1974. *Publications:* Problems of European Federation (with E. Rossi) 1944, From Sovereign States to the United States of Europe 1950, The European Federalist Manifesto 1957, Germans at the Crossroads 1960, Che fare per l'Europe 1965 (publ. in English as The Eurocrats 1966), Il lungo monologo 1968, The European Adventure 1972, PCI, Che Fare? 1978. *Leisure interests:* reading and swimming. *Address:* Camera dei Deputati, Rome Italy.

SPINOLA, Gen. Antonio Sebastião Ribeiro de; Portuguese retd. army officer; b. 11 April 1910, Estremoz; ed. Mil. Schools, Lisbon, Univ. of Lisbon; promoted to rank of Capt. 1944, Maj. 1956, Lt.-Col. 1961, Col. 1963, Brig. 1966, Gen. 1969; held various posts in Portuguese Army; Deputy Commdr., later Commdr. 2nd Lancers Regt. 1961; Commdr. 345th Cavalry Group, Angola 1961-64; Provost Marshal 1964-65; High Command Course 1965-66; Cavalry Insp. 1966-67; Deputy Commdr. Nat. Republican Guard 1967-68; Gov., C.-in-C. of the Armed Forces of Portuguese Guinea 1968-73; Deputy Chief of Staff of the Armed Forces 1973-74; Head Junta Nacional de Salvação 1974; Pres. of Portugal May-Sept. 1974; retd. from Army Nov. 1974; implicated in attempted coup d'état March 1975, in exile in Brazil and Switzerland 1975-; returned to Portugal, arrested, freed and returned to exile Aug. 1976; restored to rank of Gen. 1978; Dir. Sociedade Hípica Portuguesa (Equestrian Soc.) 1940-44, Pres. 1967; mem. Board of Dirs. Siderurgia Nacional (Nat. Steel Works Co.) 1955-64; Commdr. Order of Aviz 1959, Gold Medal for Exemplary Conduct 1965, of Mil. Merit with Laurels 1972, Tower and Sword with Palms 1973, and many other mil. decorations. *Publications:* Por Uma Guiné Melhor (For a Better Guinea) 1970, Linha de Accão (Line of Action) 1971, No Caminho do Futuro (On the Path to the Future) 1974.

SPIRIN, Aleksandr Sergeyevich; Soviet biochemist; b. 4 Sept. 1931, Königsberg, Germany (now Kaliningrad, Moscow Region); m. Lydia Pavlovna Gavrilova; one s.; ed. Moscow State Univ.; mem. Staff, Bakh Inst. of Biochem. 1958-62, Head of Lab. 1962-73; Prof. Moscow State Univ. 1964-73, Head of Chair. of Plant Biochem. 1973-; Head of Lab. and Dir. Inst. of Protein Research 1967-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-70, Academician 1970-; mem. Deutsche Akad. der Naturforscher Leopoldina 1974; Dr. h.c. (Univ. of Granada) 1972, Lenin Prize 1976; Sir Hans Krebs Medal 1969; Order of Lenin and other decorations. *Publications:* Macromolecular Structure of Ribonucleic Acids 1964, The Ribosome 1969. *Leisure interest:* hunting. *Address:* Biological Faculty, Moscow State University, Moscow; Institute for Protein Research, U.S.S.R. Academy of Sciences, Poustchino, Moscow Region, U.S.S.R.

SPIRO, Sidney, M.C.; South African business executive; b. 1914, South Africa; s. of Marcus and Clara Spiro; m. Diana D. M. Susskind; two d.; ed. Grey Coll., Bloemfontein and Cape Town Univ.; joined Anglo American Corpn. S.A. Ltd. 1953, Exec. Dir. 1961-77; Consultant to Anglo American Group 1977-; Vice-Chair. and Man. Dir. Charter Consolidated Ltd 1969-71, Chair. and Man. Dir. 1971-72, Chair 1972-76, Dir. (non-exec.) 1976-; Dir. Barclays Bank Int. Ltd., De Beers Consolidated Mines Ltd., Rio Tinto-Zinc

Corpn. Ltd., Hambros Ltd.; mem. Canadian Imperial Bank Advisory Council. *Leisure interests:* shooting, golf, tennis. *Address:* 41 Bishopsgate, London, EC2P 2AA, England. *Telephone:* 01-588 2851.

SPITSYN, Viktor Ivanovich; Soviet chemist; b. 25 April 1902, Moscow; ed. Moscow State Univ.; worked at chemical plant 1918; Instructor, Inorganic Chem., Moscow State Univ. 1923-31; Research Chemist, Moscow Electrical Plant 1923-28; Senior Research Chemist, Inst. of Applied Mineralogy and Non-ferrous Metallurgy 1928-31; Prof. Inorganic Chem., Moscow State C. Liebknecht Pedagogical Inst. 1932-42; Prof. Inorganic Chem., Moscow State Lomonossov Univ. 1942-, Vice-Rector 1942-48; Vice-Dir. Inst. of Physical Chem., Acad. of Sciences of the U.S.S.R. 1949-53, Dir. 1953-; Corresp. mem. Acad. of Sciences of the U.S.S.R. 1946-58, mem. 1958-; mem. Scientific Advisory Cttee. IAEA, CPSU 1941-; Hon. Fellow, Polish Chemical Soc., Indian Chemical Soc.; Hero of Socialist Labour 1969; Order of Lenin (four times), Order of the Red Banner of Labour; Order of the October Revolution and other decorations. *Publications:* The Reduction of Tungstates 1925, The Chlorination of Oxides 1930, The Organisation of Soviet Beryllium Production 1933, The Methods of Use of Radioactive Tracers 1955, The Migration of Radioelements in Soil 1958, 1960, The Action of Radioactive Radiation of Solids on their Physico-Chemical Properties 1958, Soviet Chemistry Today 1961, Investigations in the Chemistry of Uranium 1961, Radioactive Catalysts 1963, Investigation in the Chemistry of Technetium 1973. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

SPITZER, Lyman, Jr., B.A., PH.D.; American astronomer; b. 26 June 1914; s. of Lyman Spitzer and Blanche Brumback Spitzer; m. Doreen D. Canaday 1940; one s. three d.; ed. Phillips Acad., Andover, Mass., and Yale, Cambridge, Princeton and Harvard Univs.; Instructor in Physics and Astronomy Yale Univ. 1939; Scientist Special Studies Group 1942, and Dir. Sonar Analysis Group 1944, Columbia Univ., Division of War Research; Assoc. Prof. of Astrophysics Yale Univ. 1946; Prof. of Astronomy, Chair. of Dept. and Dir. of Observatory, Princeton Univ. 1947-, Charles A. Young Prof. of Astronomy 1952-; Dir. Project Matterhorn 1953-61; Chair. Exec. Cttee. Plasma Physics Laboratory 1961-66; Chair. Univ. Research Board 1967-72; mem. Nat. Acad. of Sciences 1952-, Royal Astronomical Soc., American Astronomical Soc., Physical Soc., American Acad. of Arts and Sciences, American Philosophical Soc., American Alpine Club; Pres. American Astronomical Soc. 1960-62; Assoc. Royal Astronomical Soc. 1973-; Hon. D.Sc. (Yale Univ., Case Inst., Harvard Univ.), Hon. LL.D. (Toledo Univ.); NASA Medal 1972, Bruce Medal 1973, Henry Draper Medal, U.S. Nat. Acad. of Sciences 1974, James Clerk Maxwell Prize, American Physical Soc. 1975, Distinguished Public Service Medal, NASA 1976; Gold Medal of Royal Astronomical Soc. 1978. *Publications:* Physics of Sound in the Sea (Editor) 1946, Physics of Fully Ionized Gases 1956, 1962, Diffuse Matter in Space 1968, Physical Processes in the Interstellar Medium 1978, and many articles. *Leisure interests:* mountain climbing, skiing. *Address:* Princeton University, Princeton, N.J. 08540, U.S.A. *Telephone:* 609-452-3800.

SPIVAKOVSKY, Tossy; Russian-born American violinist; b. 4 Feb. 1907, Odessa, U.S.S.R.; s. of David and Rahel Spivakovsky; m. Erika Lipsker 1934; one d.; ed. Hochschule für Musik, Berlin; brought to Berlin 1909; concert debut 1917; recitals and solo performances in Europe 1917-33; concert tour, Australia and New Zealand 1933; settled in Melbourne, taught at Melbourne Univ. Conservatory Master Class; settled in U.S.A. 1943-; mem. Violin Faculty, Juilliard School, New York; yearly concert tours U.S.A., Canada and Europe; apart from classical and romantic repertoire, is well known for his introductory performances of concertos by Bartok, Stravinsky, Menotti, Miklos Rozsa, Leonard Bernstein, Roger Sessions, Carl Nielsen, William Schuman, Leroy Robertson, Frank Martin and others; numerous recordings. *Publications:* cadenzas to Beethoven's Violin Concerto and to all of Mozart's Violin Concerti. *Leisure interest:* reading. *Address:* 29 Burnham Hill, Westport, Conn. 06880, U.S.A. *Telephone:* 203-227-9057 (Home).

SPOCK, Benjamin, B.A., M.D.; American pediatrician; b. 2 May 1903, New Haven, Conn.; s. of Benjamin Ives Spock and Mildred Stoughton Spock; m. 1st Jane Cheney 1927, two s.; m. 2nd Mary Morgan Wright 1976; ed. Phillips Acad., Yale Coll., Coll. of Physicians and Surgeons, Columbia Univ.; pediatric practice, Cornell Medical Coll., New York Hosp. and New York City Health Department 1933-47; served in U.S. Navy 1944-46; mem. staff, Rochester (Minn.) Child Health Inst., Mayo Clinic and Univ. of Minnesota 1947-51; organized teaching programme in child psychiatry and development, Pittsburgh Univ. Medical School 1951-55; Prof. of Child Development, Western Reserve Univ. 1955-67; specializes in application of psychoanalytic principles to pediatric practice; mem. Nat. Cttee. for Sane Nuclear Policy (SANE) 1962-, later Co-Chair. and Spokesman; Candidate for U.S. Presidency, People's Party, 1972, for Vice-Pres. 1976. *Publications:* Baby and Child Care 1946, revised edns. 1957, 1968, 1976, A Baby's First Year (with John Reinhart and Wayne Miller) 1955, Feeding Your Baby and Child (with Miriam E. Lowenberg) 1955, Dr. Spock Talks with Mothers 1961, Problems of Parents 1962, Caring for your Disabled Child (in collaboration) 1965, Dr. Spock on Vietnam (with Mitchell Zimmermann) 1968, Decent and Indecent: Our Personal and Political Behaviour 1970, A Teenager's Guide to Life and Love 1970 (U.K.: A Young Person's Guide to Life and Love 1971), Raising Children in a Difficult Time 1974. *Leisure interest:* sailing. *Address:* P.O. Box N, Rogers, Ark. 72756, U.S.A.

SPOEHR, Alexander, PH.D.; American anthropologist; b. 23 Aug. 1913, Tucson, Ariz.; s. of Herman A. and Florence M. Spoehr; m. Anne D. Harding 1941; one s. one d.; ed. Stanford Univ. and Univ. of Chicago; Asst. Curator, Field Museum of Natural History 1940-44, Curator 1945-52; Dir. Bernice P. Bishop Museum 1953-61; Prof. of Anthropology, Yale Univ. 1953-61; Chancellor, East-West Center, Hawaii 1962-63; U.S. Commr. South Pacific Comm. 1959-60; Prof. of Anthropology, Univ. of Pittsburgh 1964-; mem. Nat. Acad. of Sciences; Guggenheim Fellow 1952. *Publications:* Majuro 1949, Saipan 1954, Marianas Prehistory 1957, Zamboanga and Sulu: An Archaeological Approach to Ethnic Diversity 1973 and numerous articles on ethnology and archeology. *Leisure interests:* gardening, swimming. *Address:* Department of Anthropology, University of Pittsburgh, Pittsburgh, Pa. 15213, U.S.A. *Telephone:* 621-1395.

SPOHR, Arnold Theodore, O.C.; Canadian ballet director, teacher and choreographer; b. 26 Dec. 1927; ed. St. John's High School and Winnipeg Teachers' Coll.; Piano Teacher 1946-51; Principal Dancer Royal Winnipeg Ballet 1947-54; Canadian Broadcasting Corpn. Television Choreographer and performer 1955-57; Choreographer Rainbow Stage 1957-60; Artistic Dir. Royal Winnipeg Ballet 1958-; Dir.-Teacher Royal Winnipeg Ballet School 1958-; Dir. Nelson School of Fine Arts Dance Dept. 1964-67; Artistic Dir. Dance Dept. Banff School of Fine Arts 1967-; mem. Board of Dirs. Canadian Theatre Centre; Hon. LL.D. (Univ. of Manitoba) 1970, many awards including Molson Prize, Canada Council 1970, Order of Canada 1970, Centennial Medal, Gov. of Canada 1967. *Choreography:* Ballet Premier 1950, Intermed 1951, E Minor 1959, Hansel and Gretel 1960, and 18 musicals for Rainbow State. *Leisure interests:* sports, piano, travel-research for study of every type of dancing. *Address:* 289 Portage Avenue, 2nd Floor, Winnipeg, Manitoba R3B 2B4, Canada.

SPOTSWOOD, Marshal of the Royal Air Force Sir Denis, G.C.B., C.B.E., D.S.O., D.F.C., F.R.AE.S.; British air force officer; b. 26 Sept. 1916, England; s. of F. H. and M. C. Spotswood; m. Ann Child 1942; one s.; joined Royal Air Force 1936; service in Squadrons U.K. and N. Africa 1937-43; Dir. of Plans, H.Q. Supreme Allied Commdr., S.E. Asia 1944-46; Stations (Fighter) 1948-50, 1954-56; Commdt. and Air Officer Commanding (A.O.C.) R.A.F. Coll. Cranwell, 1958-61; Asst. Chief of Staff (Air Defence) SHAPE 1961-63; C.-in-C. R.A.F. Germany and Commd. 2nd Allied Tactical Air Force 1965-68; C.-in-C. Strike Command 1968-71; Chief of Air Staff 1971-74; Vice-Chair. Rolls-Royce Ltd. 1974-; Vice-Pres. Soc. of British Aerospace Cos. 1977-78; Pres. 1978-79; Chair. Turbo Union Ltd.; Dir. Rolls Royce/Turbomeca Ltd.; Chair. Trustees, Royal Air Force Museum; Gov. Star and Garter Home; A.D.C. to H.M. The Queen 1957-61, Air A.D.C. to H.M. The Queen Aug. 1970-74; U.S. Legion of Merit. *Leisure interests:* shooting, bridge, rugby (spectator), golf. *Address:* c/o Williams and Glyn's Bank Ltd., Kirkland House, Whitehall, London, S.W.1, England.

SPRAGUE, George F., PH.D., D.SC.; American research agronomist; b. 3 Sept. 1902, Crete, Neb.; s. of E. E. Sprague and Lucy K. Manville; m. 1st Mary S. Whitworth 1926, 2nd Amy M. Millang 1945; two s. two d.; ed. Univ. of Nebraska and Cornell Univ.; Junior Agronomist, U.S. Dept. of Agric. 1924-28, Asst. Agronomist 1928-34, Assoc. Agronomist 1934-39, Agronomist 1939-42, Senior Agronomist 1942-58, Principal Agronomist 1958, Leader of Corn and Sorghum Investigations 1958-72; Prof. Univ. of Ill. 1973-; Fellow AAAS, American Soc. of Agronomy; mem. Nat. Acad. of Sciences, Washington Acad. of Sciences; Crop Science Award, Superior Service Award of Dept. of Agric. 1960, Distinguished Service Award 1970. *Publications* Corn and Corn Improvement 1956, Quantitative Genetics in Plant Improvement 1966; and over 100 research papers in scientific journals. *Address:* S 12 Turner Hall, Department of Agronomy, University of Illinois, Urbana, Ill. 61801; 2212 S. Lynn, Urbana, Ill. 61801, U.S.A. (Home). *Telephone:* 333-4254 (Office); 344-6685 (Home).

SPRINGER, Axel; German publisher; b. 2 May 1912, Hamburg-Altona; s. of Hinrich and Ottilie Springer; m.; two s. one d.; ed. Realgymnasium, Hamburg-Altona; printing and publishing apprenticeships with provincial newspapers; received journalistic training with WTB news agency and on his father's paper Altonaer Nachrichten; founded own publishing company 1945; now sole proprietor Axel Springer Publishing Group, consisting of Axel Springer Verlag A.G., the Ullstein and Propyläen book publishing companies and Ullstein AV (production and distribution of audio-visual publications); Hon. Fellow, Weizmann Inst., Israel; Hon. D.Hum.Litt. (Temple Univ.); Dr.phil. h.c. (Bar-Ilan Univ., Israel and Hebrew Univ., Jerusalem); Grosses Bundesverdienstkreuz mit Stern und Schulterbaud, Bayerischer Verdienstorden; Friendship Medal of the American Freedoms Foundation, Leo-Baeck Medal; *Publications include:* Die Welt, Bild Zeitung, Hamburger Abendblatt, Berliner Morgenpost, BZ (daily papers); Bild am Sonntag, Welt am Sonntag (Sunday papers); Hör Zu, Funk Uhr (radio and television programme magazines). *Publications:* Von Berlin aus Gesehen 1971 and numerous articles and speeches. *Address:* 1 Berlin 61, Kochstrasse 50, Germany.

SPRINGER, Sir Hugh Worrell, K.C.M.G., C.B.E., M.A., D.SC.SOC.; Barbadian barrister and educationist; b. 22 June 1913, Barbados; s. of Charles Wilkinson Springer and Florence Springer; m. Dorothy Drinan Gittens 1942; three s. one d.; ed. Harrison Coll., Barbados, Hertford Coll., Oxford and Inner Temple, London; practised at Bar of Barbados 1939-47; mem. House of Assembly, Barbados 1940-47; mem. Exec. Cttee., Barbados 1944-47; mem. Educ. Board, Barbados 1944-47; Gen. Sec. Barbados Labour Party 1940-47; Organizer and first Gen. Sec. Barbados Workers' Union 1940-47; Registrar, Univ. of West Indies 1947-63; mem. Educ. Authority of Jamaica 1950-56, ILO Cttee. of Experts on Social Policy in Non-Metropolitan Territories 1953-58, W. Indies Trade and Tariff Comm. 1957-58, Univ. Grants Cttee., Ghana 1959, Jamaica Public Service Comm. 1959-63, W. Indies Fed. Service Comm. 1960-61; Guggenheim Fellow and Fellow Harvard Centre for Int. Affairs 1961-62; Senior Visiting Fellow, All Souls Coll., Oxford 1962-63; Acting Gov. of Barbados 1964; Dir. Inst. of Educ. of Univ. of W. Indies 1963-66; Chair. Commonwealth Carribbean Medical Research Council 1965-; Sec. Commonwealth Educ. Liaison Cttee. and Dir. Commonwealth Asst. Sec.-Gen. (Educ.) 1967-70; mem. Council of Bernard van Leer Foundation 1967-78; Fellow, Royal Soc. of Arts 1968-; mem. of Bermuda Civil Disorders Comm. 1968; Sec.-Gen. Assen. of Commonwealth Univs. 1970-; Chair. Commonwealth Human Ecology Council 1971-, Commonwealth Foundation 1974-77, Trustee 1967-; Chair. Joint Commonwealth Societies Council 1978-; Pres. Educ. Section of British Assen. 1974-75; Vice-Pres. British Caribbean Assen. 1974-; Hon. Fellow, Hertford Coll., Oxford 1974; Hon. LL.D. (Victoria Univ., British Columbia, Univs. of West Indies, St. Andrew's, Manchester), Hon. D.Litt. (Warwick, Ulster, Heriot-Watt, Hong Kong, City (London) Univs.); Silver Medal of Royal Soc. of Arts 1970. *Publications:* Reflections on the Failure of the First West Indian Federation 1962, Problems of National Development in the West Indies 1965, Barbados as a Sovereign State, University Government Relations in the West Indies 1967, Relevance or Respectability in Education—The Rural Problem 1970, Educational Aspects of Human Ecology and Development 1971, and articles in journals. *Leisure interests:* walking, reading and conversation. *Address:* 22 Kensington Court Gardens, London, W8 5QP, England. *Telephone:* 01-937 4626.

SPRINGER, Konrad Ferdinand, DR.PHIL.; German publisher; b. 23 Sept. 1925, Berlin; s. of Ferdinand Springer and Elisabeth Szavozd; m.; one s. one d.; ed. Staatliches Kaiserin Augusta-Gymnasium, Berlin, Staatliches Kant-Gymnasium, Berlin, and Univ. of Zürich; Partner Springer Verlag, Berlin, Heidelberg and New York 1963-, J. F. Bergmanns Verlagsbuchhandlung, Munich 1963-, Lange and Springer Scientific Bookshop, Berlin 1963-, Springer-Verlag, Minerva Wissenschaftl Buchhandlung, Vienna 1965. *Leisure interest:* minerals. *Address:* Von-der-Tann-Strasse 17, 69 Heidelberg 1, Federal Republic of Germany.

SPÜHLER, Willy; Swiss economist and politician; b. 31 Jan. 1902; ed. Gymnasium of Zürich and Univs. of Zürich and Paris; Statistician, Zürich 1931-34; Head of Employment Bureau, Zürich 1935-42; Head, Cen. Office of War Economy 1939-48; mem. Zürich Town Council 1942-59; mem. Nat. Council Fed. Assembly 1938-55, mem. Fed. Council 1959-70, Pres. Jan.-Dec. 1963, Jan.-Dec. 1968, Vice-Pres. Jan.-Dec. 1967; Head of Transport, Communications and Power Dept. 1959-65; Head of Fed. Political (Foreign Affairs) Dept. 1966-70; Pres. of Foundations "Pro Helvetia" 1971. *Address:* Hirschengraben 20, Zürich, Switzerland. *Telephone:* 01-471133.

SPULER, Bertold, DR. PHIL.; German orientalist; b. 5 Dec. 1911, Karlsruhe, Baden; s. of Dr. Rudolf Spuler and Natalena (née Lindner); m. Gerda Roehrig 1937; two s. one d.; ed. Univs. of Heidelberg, Munich, Hamburg and Breslau; Collaborator Soc. for Silesian History 1934-35; Asst. Dept. of East European History, Univ. of Berlin and Co-editor Jahrbücher für Geschichte Osteuropas 1935-37. Asst. Dept. of Near Eastern Studies, Univ. of Göttingen 1937-38, Dozent 1938-41; Full Prof. Univ. of Munich 1942, Göttingen 1945, Hamburg 1948-; Editor Der Islam 1949-, Handbuch der Orientalistik 1952-, Studien zur Sprache, Geschichte und Kultur des Islamischen Orients, 1965-; Co-editor Das Historische-Politische Buch 1953-; Hon. Dr. Theol. (Berne), Hon. D. ès Lettres (Bordeaux). *Publications include:* Die europäische Diplomatie in Konstantinopel bis 1739 1935, Die Minderheitenschulen der europäischen Türkei von der Reformzeit bis zum Weltkriege 1936, Die Mongolen in Iran: Politik, Verwaltung und Kultur der Ilchanzeit 1220-1350 (Turkish edn. 1956, Persian edn. 1972), Die Goldene Horde, Die Mongolen in Russland, 1223-1302 1943, Die Gegenwartslage der Ostkirchen in ihrer staatlichen und völklichen Umwelt 1948, Geschichte der islamischen Länder im Überblick I: Chalifenzeit; II: Mongolenzeit 1952-53, Iran in frühislamischer Zeit: Politik, Kultur, Verwaltung und öffentliches Leben 633-1055 1952 (Persian edn. 1970), Regenten und Regierungen der Welt 1953, 1962-66, 1971 (English edn. 1977), Wissenschaftl. Forschungsbericht: Der vordere Orient in islamischer Zeit 1954, The Age of the Caliphs 1960, 1968, The Age of the Mongols 1960 (twice), Geschichte der Morgenländischen Kirchen 1961, Innerasien seit dem Aufkommen der Türken 1966, Les Mongols et l'Europe 1961 (Spanish edn. 1966, English edn. 1971), Wüstenfeld-Mahlersche Vergleichungstabellen der muslimischen iranischen und orient-christlichen Zeitrechnung, Die islamische Welt (Saeculum Weltgeschichte III-VII, 1967-75), Die Orthodoxen Kirchen No. 78 1978, Geschichte der Mongolen nach östlichen und europäischen Zeugnissen 1968 (English edn. 1970), Die historische und geographische Literatur in Persischer Sprache 1968, Kulturgeschichte des Islams (östlicher Teil) 1971, Die Kunst der Islam (with J. Sourdel-Thomine) 1973, Wirtschafts Geschichte Irans und Mittelasiens im Mittelalter 1977, Krim Geschichte 1977. *Leisure interests:* collaboration in church work, hiking. *Address:* Mittelweg 90, 2 Hamburg 13; Rothenbaumchaussee 1936, 2 Hamburg 13, Federal Republic of Germany. *Telephone:* 4123-3180.

SPYCHALSKI, Marian; Polish architect and politician; b. 6 Dec. 1906; Łódź; s. of Jósef and Franciszka (née Leśkiewicz) Spychalski; m. Barbara Skrzypczyk 1935; two d.; ed. Warsaw Polytechnic; joined Polish Communist Party 1931; awarded Grand Prix at Paris Int. Exhibition for his plan for development of Warsaw 1937; during occupation of Poland, became leader in left-wing of resistance movement; mem. Polish Workers' Party 1942-48; Mayor of Warsaw 1945; mem. Exec. Cttee. P.W.P. 1945-48; Deputy Minister of Nat. Defence 1945-48; mem. Politburo, Polish United Workers' Party 1948-49, 1956-70; expelled from Party 1949, rehabilitated 1956; Minister of Nat. Defence 1956-68; Marshal of Poland 1963-; Pres. of Council of State (Head of State) 1968-70; Chair. of All Poland Cttee. of Nat. Unity Front 1968-70; Deputy to Seym 1957-72; retd.; Grunwald Cross (2nd Class) 1945, Order of the Banner of Labour 1959. Order of the Builders of People's Poland. *Address:* Warsaw, Poland.

SPYROPOULOS, Jannis; Greek artist; b. 12 March 1912, Pylos, Peloponnese; s. of Georges J. Spyropoulos and Phigalia G. J. Spyropoulos; m. Zoe Margaritis 1954; ed. School of Fine Arts, Athens, and Ecole des Beaux Arts, Paris; numerous one-man exhbns. in Europe, U.S.A. and Australia 1950-; on touring exhbns. of Greek Art, Rome 1953, Belgrade 1954, Malmö and Gothenburg 1959, Canada 1959, Cyprus 1960, Helsinki 1961; participated in Alexandria Biennale 1955, São Paulo Bienal 1957, Venice Biennale 1960, Carnegie Internationals 1961, 1964; Documenta III (Kassel) 1964, etc.; represented in Guggenheim Museum, New York, Museum of Contemporary Art, Dallas, Bezallel Nat. Museum, Jerusalem, Museum of Contemporary Art, Belgrade, Museum of Fine Arts, Ostend, Toronto Art Gallery, Nat. Art Gallery of Athens, Museum of Modern Art, Paris, Israel Museum, Jerusalem, Museum of Modern Art, Brussels, in galleries Nebraska, Rochester, Vermont, New Jersey, Washington, D.C. (U.S.A.), Nuremburg, Mainz (Fed. Republic. of Germany), Sydney (Australia), Auckland (New Zealand), and at Expo 1967 (Montreal) and 1970 (Osaka); Commdr. Royal Order of Phoenix; UNESCO Prize 1960. *Leisure interest:* photography. *Address:* 11 Sarantaporou Street, Athens 905, Greece. *Telephone:* 281-182.

SRB, Adrian Morris, M.S., PH.D.; American professor of genetics; b. 4 March 1917, Howells, Neb.; s. of Jerome Ve. Srb and Viola Morris; m. Jozetta Marie Helfrich 1940; one s. two d.; ed. Howells High School, Univ. of Nebraska, Stanford Univ. and California Inst. of Technology; Civilian, Office of Scientific Research and Devt. 1944; Asst. Prof. of Biology, Stanford Univ. and Research Fellow,

Calif. Inst. of Technology 1946-47; Assoc. Prof. Plant Breeding, Cornell Univ. 1947-51; Research Assoc., Calif. Inst. of Technology 1949; Prof. of Plant Breeding, Cornell Univ. 1951-63, Prof. of Genetics, Devt. and Physiology, Biological Sciences 1965-; Jacob Gould Schurman Prof. 1976-; Fulbright Research Scholar and Guggenheim Fellow, Univ. of Paris 1953-54; Nat. Science Foundation Sr. Post-doctoral Research Fellow, Centre Nat. de la Recherche Scientifique, Gif-sur-Yvette, France 1960-61, Univ. of Edinburgh, Scotland 1967-68; mem. Nat. Acad. of Sciences; Hon. mem. Chilean Genetics Soc.; Fellow, American Acad. of Arts and Sciences; Hon. Foreign Fellow, Edinburgh Botanical Soc.; Fellow, New York Acad. of Sciences, American Assn. for Advancement of Science; Trustee, Cornell Univ. 1975-; Hon. D.Sc. (Univ. of Nebraska) 1969; Distinguished Teacher Award 1967. *Publications:* General Genetics (with R. D. Owen) 1952, Pathways to the Understanding of Genetics 1953, Adaptation (with B. Wallace) 1961, 1964, General Genetics (with R. D. Owen and R. S. Edgar) 1965, Editor Genes, Enzymes, and Population 1973; over 100 research papers in scientific journals. *Leisure interests:* music, collecting juvenile books, gardening. *Address:* Section of Genetics, Development and Physiology, Cornell University, Ithaca, N.Y. 14850 (Office); 411 Cayuga Heights Road, Ithaca, N.Y. 14850, U.S.A. (Home). *Telephone:* 256-3145 (Office); 272-8492 (Home).

SRIVASTAVA, Chandrika Prasad, LL.B., M.A.; Indian international civil servant; b. 8 July 1920, Unnao; s. of B. B. Srivastava and Mataji Srivastava; m. Nirmala Salva 1947; two d.; ed. Univ. of Lucknow; Deputy Dir.-Gen. of Shipping, Govt. of India 1954-57; Joint Sec. to Prime Minister 1964-66; Chair. Shipping Corpn. of India 1966-73; Pres. Indian Nat. Shipowners' Assn. 1971-73; Dir. Reserve Bank of India 1973-74; Pres. UN Diplomatic Conf. of Plenipotentiaries on a Code of Conduct for Liner Confs. 1973-74; Sec.-Gen. IMCO Jan. 1974-; Gold Medals for English Literature and Political Science (Univ. of Lucknow); Padma Bhushan 1972. *Publications:* contributions to maritime journals. *Leisure interests:* music, tennis, reading. *Address:* Inter-Governmental Maritime Consultative Organization, 101-104 Piccadilly, London, W1V 0AE; 56 Ashley Gardens, London, S.W.1, England.

STAATS, Elmer Boyd, PH.D.; American economist and government official; b. 6 June 1914, Richfield, Kansas; s. of Wesley F. and Maude (Goodall) Staats; m. Margaret S. Rich 1940; one s. two d.; ed. McPherson Coll., and Univs. of Kansas and Minnesota; Research Asst., Kansas Legis. Council 1936; mem. Staff, Public Admin. Service, Chicago 1937-38; Fellow, Brookings Inst. 1938-39; Asst. to Dir., Bureau of the Budget 1947, Asst. Dir. (Legis. Reference) 1947-49, Exec. Asst. Dir. 1949-50, Asst. Dir. 1958-59, Deputy Dir. 1950-53, 1959-66; Research Dir., Marshall Field & Co., Chicago 1953; Exec. Officer Operations Co-ordinating Board, Nat. Security Council 1953-58; Comptroller Gen. of the United States 1966-; mem. numerous public orgs. including Pres. American Soc. for Public Admin. 1961-62; mem. Board of Dirs. of American Acad. of Political and Social Science 1966, Board of Govs. Int. Org. of Supreme Audit Insts. 1969-, Visiting Cttee. John F. Kennedy School of Govt., Harvard Univ. 1974-, Visiting Cttee., Graduate School of Man., Univ. of Calif. at Los Angeles 1976-, Visiting Cttee. to the Cttee. in Public Policy Studies, Univ. of Chicago 1976-; President's Comm. on Budget Concepts; Hon. mem. of Faculty, Industrial Coll. of the Armed Forces 1973-, Soc. of Mfg. Engineers 1978-; Rockefeller Public Service Award 1961; Dr. Publ. Service (George Washington Univ.) 1971, Dr. Admin. (Univ. of S. Dak) 1973, Hon. Certified Internal Auditor (Inst. of Internal Auditors) 1976; Hon. LL.D. (McPherson Coll.) 1966, (Duke Univ.) 1975, (Nova Univ.) 1976. *Publication:* Personnel Standards in the Social Security Program 1939. *Address:* U.S. General Accounting Office 441 G Street, N.W., Washington, D.C. 20548; 5011 Overlook Road, N.W., Washington, D.C. 20016, U.S.A. *Telephone:* 202-275-5481 (Office).

STACEY, Col. Charles Perry, O.C., O.B.E., C.D., A.M., PH.D., LL.D., D.LITT., F.R.S.C.; Canadian army officer and university professor (retd.); b. 30 July 1906, Toronto; s. of Dr. C. E. Stacey and Pearl Perry; m. Doris Newton Shiell 1939 (died 1969); ed. Univs. of Toronto, Oxford and Princeton; on Canadian Army Reserve 1929-40; mem. Princeton Univ. History Dept. 1934-40; Historical Officer, Canadian Mil. Headquarters, London 1940-45; Pres. Canadian Historical Assn. 1952-53; Pres. Canadian Historical Assn. 1952-53; Pres. Canadian Writers' Foundation 1958-59; Dir. Historical Section, Canadian Army Gen. Staff 1945-59; Hon. Sec. Royal Soc. of Canada 1957-59, Hon. Editor 1964-68; Pres. Section II Royal Soc. of Canada 1968-69; Special Lecturer in History, Univ. of Toronto 1959-60, Univ. Prof. 1973-76; on leave while acting as Dir. of History, Canadian Forces H.Q., Ottawa 1965-66. *Publications:* Canada and the British Army 1846-1871 1936 (2nd edn. 1963), The Military Problems of Canada 1940, The Canadian Army 1939-1945: an Official Historical Summary 1948, Introduction to the Study of Military History for Canadian Students 1955, Six Years of War 1955, Quebec 1759: The Siege and the Battle 1959, Records of the Nile Voyageurs 1884-1885 1959, The Victory Campaign 1960, Arms, Men and Governments: The War Policies of Canada 1939-1945 1970, The Arts of War and Peace 1914-45 (Historical Documents of Canada, Vol. V) 1972, A Very Double Life: The Private World of Mackenzie King 1976, Mackenzie King and the Atlantic Triangle 1977, Canada and the Age of Conflict Vol. I 1977. *Address:* 89 Tranmer Avenue, Toronto, Ont. M5P 1E3, Canada. *Telephone:* 481-4885 (Home).

STACEY, Maurice, C.B.E., PH.D., D.SC., F.R.S.; British professor of chemistry; b. 8 April 1907; m. Constance Mary Pugh 1937; two s. two d.; ed. Adams School, Shropshire, Birmingham Univ., London Univ. and Columbia Univ., New York; Beit Memorial Research Fellow, London Univ. 1933-37; Lecturer, Birmingham Univ. 1937-46, Prof. of Chem. 1946-56, Mason Prof. of Chem. 1956-74, Emer. Prof. 1974-, Head of Dept. 1956-74, Hon. Sr. Research Fellow 1974-76; Hon. D.Sc. (San Marcos, Peru and Keele, U.K.); Meldola Medal 1933; Virtanen Medal; U.S. Nat. Acad. Science Award 1950; John Scott Medal and Award 1969, Haworth Medal 1970. *Publications:* 400 publs. on chemical and biochemical topics, two books (with S. A. Barker) on Polysaccharides. *Leisure interests:* collector of antiques, travel, horticulture. *Address:* Department of Chemistry, Birmingham University, Birmingham, England. *Telephone:* 021-472 1301, Ext. 100; 021-475 2065.

STADEN, Berndt von (see von Staden, Berndt).

STADTMAN, Earl R., PH.D.; American biochemist; b. 15 Nov. 1919, Carrizozo, N.M.; s. of Walter W. Stadtman and Minnie Ethyl Stadtman; m. Theresa Campbell Stadtman 1943; ed. Univ. of Calif.; Research Asst. Dept. of Food Technology, Univ. of Calif. 1943-46, Research Asst., Div. of Plant Nutrition 1948-49; Atomic Energy Comm. Fellow, Biochemical Research Lab., Mass. Gen. Hospital 1949-50; Chemist (Biochem.) GS-15-Lab. for Cellular Physiology and Metabolism Nat. Insts. of Health (NIH) 1950-58, Chief of Enzyme Section, Lab. of Cellular Physiology and Metabolis, NIH 1958-62, Chief, Lab. of Biochem., Nat. Heart Inst., NIH 1962-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, U.S. Cttee. for Int. Union of Biochemistry, Council of American Soc. of Biological Chemists; Paul Lewis Award in Enzyme Chem. 1952, Washington Acad. of Sciences Annual Award in Biological Chem. 1957; Superior Service Award of Dept. of Health, Educ. and Welfare 1968, Distinguished Service Award 1970; Hillebrand Award of American Chemical Soc. 1969, Award in Microbiology, Nat. Acad. of Sciences 1970. *Publications:* Numerous scientific articles 1953-. *Leisure interests:* gardening, bowling, badminton, travelling. *Address:* National Institutes of Health, Bethesda, Md. 20014 (Office); 16907 Redland-Derwood Road, Derwood, Md. 20855, U.S.A. (Home). *Telephone:* 301-496-4096 (Office); 301-869-1747 (Home).

STAEHELIN, Ernst: Swiss ecclesiastic; b. 3 Oct. 1889; s. of Pastor Ernst Staehelin and Sibylla née Merian; m. Gertrud Kutter 1921; two s. three d.; ed. Basel, Göttingen, Berlin and Marburg Univs.; Pastor of Reformed Church, Thalheim (Aargau) 1920; Extraordinary Prof. of Church History and Dogmatics Basel Univ. 1924, Prof. 1927, Rector Univ. 1933, 1939 and 1960; Pastor Olten 1926; Hon. D.Theol. (Berne, Lausanne), D.Phil. (Basel). *Publications include:* Der Jesuitenorden und die Schweiz 1923, Das Buch der Basler Reformation 1929, Das theologische Lebenswerk Johannes Oekolampads 1939, Johann Caspar Lavaters ausgewählte Werke 1943, Alexandre Vinets ausgewählte Werke 1944-45, Johann Ludwig Frey, Johannes Grynaeus und das Frey-Grynaeische Institut in Basel 1947, Die Stimme der schweizerischen Kirchen zum Sonderbundskreig und zur Gründung des schweizerischen Bundesstaates 1948, Die Verkündigung des Reiches Gottes in der Kirche Jesu Christi (7 vols. 1951, 1953, 1955, 1957, 1959, 1963, 1965), Die Jesuitenfrage 1955, Dewettiana, Forschungen und Texte zu Deswettes Leben und Werk 1956, Die Wiederbringung aller Dinge 1960, Overbeckiana: Übersicht über die auf der Universitätsbibliothek Basel aufbewahrte Korrespondenz Franz Overbecks 1962, Professor Friedrich Lachenal 1965, Die Korrespondenz des Basler Professors Jakob Christoph Beck 1711-1785 1968, Die Christentumgesellschaft in der Zeit der Aufklärung und der beginnenden Erweckung 1970, Die Christentumsgesellschaft in der Zeit von der Erweckung bis zur Gegenwart 1974. *Address:* Ob. Heuberg 33, Basel, Switzerland. *Telephone:* 061-251345.

STAERKE, Roger De (see De Staerke).

STAFFORD, Godfrey Harry, C.B.E., M.SC., PH.D.; British physicist; b. 15 April 1920, Sheffield; s. of Henry and Sarah Stafford; m. Helen Goldthorp 1950; one s. two d.; ed. Rondebosch Boys' High

School, Univ. of Cape Town, Gonville and Caius Coll., Cambridge; South African Naval Forces 1941-46; AERE, Harwell 1949-51; Head of Biophysics Subdivision, Commonwealth Scientific and Industrial Research Org., Pretoria 1951-54; Cyclotron Group, AERE 1954-57; Head of Proton Linear Accelerator Group, Rutherford Laboratory 1957, Head of High Energy Physics Div. 1963, Deputy Dir. 1966, Dir. 1969-; Dir. of Atlas and Rutherford Laboratory 1975-; U.K. del IUPAP Comm. on Particles and Fields 1975; Vice-Pres. Inst. of Physics Meetings Cttee. 1976; Chair. CERN Scientific Policy Cttee. 1978; Supernumerary Fellow, St. Cross Coll., Oxford 1971; Ebden Scholar, Univ. of Cape Town. *Publications:* papers and articles in learned journals on biophysics, nuclear physics and high energy physics. *Address:* Ferry Cottage, North Hinksey Village, Oxford, OX2 0NA, England. *Telephone:* Abingdon 21900 Ex. 469 (Office); Oxford 47621 (Home).

STAFLEU, Frans Antonie; Netherlands professor of systematic botany; b. 8 Sept. 1921, Velsen; s. of Frans J. Stafleu and Elisabeth S. Ladan; m. Charlotte A. M. Corporaal 1947; two s.; ed. Univ. of Utrecht; Geneticist Java Sugar Experimental Station 1948-50; Scientific Officer, Univ. of Utrecht 1950-66, Prof. of Botany 1966-; Sec.-Gen. Int. Assen. for Plant Taxonomy 1953-; Treas. Int. Union of Biological Sciences 1964-67, Sec.-Gen. 1967-70; Sec.-Gen. Int. Council of Scientific Unions 1970-74; mem. and Sec.-Treas.-Gen. Royal Netherlands Acad. of Sciences; Foreign mem. Linnean Soc. of London; Dr. h.c. (Bergen, Norway). *Publications:* A Monograph of the Vochysiaceae 1-5 1948-53, Index nominum genericorum (editor and part author) 1955-, Taxonomic Literature 1967, 1976, Linnaeus and the Linnaeans 1971; series Taxon and Regnum vegetabile (editor and author). *Leisure interests:* walking, book-collecting. *Address:* Department of Botany, Room 1904, Tweede Transitorium, Uithof, Utrecht; 33 Weg nuar Rhyhauwen Utrecht, Netherlands (Home). *Telephone:* 030-513372 (Home).

STÅHLE, Anders Nils Oscar Kåse, LL.B.; Swedish diplomatist and public servant; b. 12 June 1901, Helsingborg; s. of Isaac W. Ståhle and Karin Trapp; m. Birgit Olsson 1926; one s. three d.; ed. Univ. of Lund; entered Swedish Foreign Service 1927; served home and abroad until 1948; Executive Dir. Nobel Foundation 1948-72; Chair. Swedish del. several post-war bilateral trade negotiations and represented Sweden in post-war int. confs. on shipping and trade; Del. Maritime Transport Cttee., OEEC Paris 1947-59; Chair. Int. Fed. of Insts. for Advanced Study 1972-74, Swedish Racing Assen. 1973-76, Swedish Jockey Club 1972-77 (rep. Chair. 1955), Assembly Int. Inventor Award 1976-; board mem. several banking and industrial companies 1948-75; holds Swedish and foreign decorations; Dr. Iur. h.c. *Leisure interest:* riding. *Address:* Nobel House, Sturegatan 14, 11436 Stockholm, Sweden. *Telephone:* 08-633787.

STAHLE, Hans, M.A., Hon. M.B.E.; Swedish business executive; b. 8 Aug. 1923; ed. Uppsala Univ., Stockholm School of Economics and IMEDE Management Devt. Inst., Lausanne; Deputy Man. Dir. Alfa-Laval AB (machinery) until 1960, Managing Dir. 1960-. *Address:* Hamra, Tumba, Sweden.

STAHR, Elvis J., Jr., M.A., B.C.L.; American conservationist, lawyer and university official; b. 9 March 1916, Hickman, Ky.; s. of Elvis J. and Mary A. (McDaniel) Stahr; m. Dorothy Howland Berkfield 1946; two s. one d.; ed. Univ. of Kentucky, Oxford Univ. (Rhodes Scholar), Yale Univ.; with New York law firm; served U.S. Army, Second World War; Assoc. Prof. of Law, Univ. of Ky 1947-48, Prof. and Dean of Law Coll. 1948-54; served Dept. of Army in Korean War; Provost, Univ. of Ky. 1954-56; Exec. Dir. President's Cttee. on Educ. Beyond Secondary School Level 1956-57; Vice-Chancellor, Univ. of Pittsburgh 1957-59; Pres. W. Va. Univ. 1959-61; Sec. of the Army 1961-62; Pres. Indiana Univ. 1962-68; Pres. Nat. Audubon Soc. 1968-; mem. U.S. Del. to UN Conf. on Human Environment, Stockholm 1972 and to Int. Whaling Comm., London 1975 and 1978; mem. Joint U.S.-U.S.S.R. Cttee. on Co-operation for Protection of the Environment, Washington 1973, Nat. Cttee. for World Population Year 1974, Nat. Petroleum Council; Board of Dirs. Saxon Industries, Alliance to Save Energy; Acacia Mutual Life Insurance Co., Chase Manhattan Bank; fmr. Pres. Assen. of the U.S. Army, fmr. Nat. Chair. United Service Orgs., fmr. Deputy Chair. of Board Fed. Reserve Bank of Chicago; mem. Presidential Aviation Advisory Comm. 1970-73; Trustee, C.E.D., Hon. LL.D. (Univ. of Maryland, Univ. of Pittsburgh, Louisiana State Univ., Texas Christian Univ., Univ. of Kentucky, Univ. of Notre Dame, Brown Univ., Northwestern Univ., Indiana Univ. and 9 others, Hon. D.Mil.Sc. (Northeastern Univ.), Hon. D.Pub.Admin. (Bethany Coll.), Hon. D.H.L. (De Pauw Univ., Transylvania Univ.), Hon. D. Env. Sci (Rollins Coll.), Hon. Litt. D. (Univs. of Maine, Cincinnati), Hon. Ph.D (Culver Stockton Coll.), Hon. D.Sc. (Norwich Univ.); numerous decorations and awards, etc. *Leisure interests:* tennis, books, sun and surf. *Address:* National Audubon Society, 950 Third Avenue, New York, N.Y. 10022; Martin Dale, Greenwich, Conn. 06830, U.S.A. (Home). *Telephone:* 212-832-3200 (Office).

STAIGER, Emil, D.PHIL.; Swiss university professor and writer; b. 8 Feb. 1908, Kreuzlingen; s. of Richard Staiger and Emma Seiler; m. Sibylle Zwicky 1938; one s. one d.; ed. Univs. of Geneva, Zürich and Munich; elected Prof. of German Literature, Zürich Univ. 1943; mem. Deutsche Akad. and Vetenskaps-Societeten, Lund, Finnish Acad. of Sciences, British Acad.; hon. mem. Modern Language Assn. of America, Order "Pour le Mérite". *Publications:* Die Zeit als Einbildungskraft des Dichters 1939, Meisterwerke deutscher Sprache 1943, Grundbegriffe der Poetik 1946, Goethe Vol. I 1952, Vol. II 1956, Vol. III 1959, Die Kunste der Interpretation 1955, Stilwandel 1963, Geist und Zeitgeist 1964, Schiller 1967, Spätzeit 1973; trans. (into German) Sophokles Tragödien 1944, Griechische Epigramme 1946, Euripides Ion 1947; (Greek and German with E. Howald) Callimachi opera omnia 1956, Aischylos Orestie 1959, Theokrit 1970, Poliziano, Triumph Cupidos. *Address:* Seegartenstrasse 32, CH-8810 Horgen, Switzerland (Home).

STAIGER, John Gustav, B.A.; American business executive; b. 20 March 1910, Chase, Wis.; m. Jane Emily Crawford 1936; one s.; ed. Univ. of Dubuque, Iowa; Asst. to Exec. Vice-Pres. Nash Kelvinator (now American Motors) 1956; joined Massey-Ferguson, Asst. to Pres. 1957, Vice-Pres., Asst. to Pres. 1960, Vice-Pres., Gen. Man. N. American Operations 1961, Vice-Pres. Admin., Office of Pres. 1962, Group Vice-Pres. Farm Machinery 1966, Senior Vice-Pres. Corporate Admin. 1969, Senior Vice-Pres. 1972-78; fmr. Chair., Dir. Farm and Industrial Equipment Inst.; Dir. several Massey-Ferguson subsidiaries; Trustee, Iowa Methodist Hospital, Simpson Coll., Iowa, Canadian Opera Co. *Address:* 600 Island Drive, Palm Beach, Fla. 33480, U.S.A. *Telephone:* (305) 655-9212.

STAKMAN, Elvin Charles, B.A., M.A., PH.D.; American plant pathologist and agricultural botanist; b. 17 May 1885, Algoma, Wis.; s. of Frederick and Emelia Eberhardt Stakman; m. Louise Jensen 1917 (deceased); ed. Univ. of Minnesota; Dept. of Plant Pathology and Botany, Univ. of Minn. 1909-53, Chief of Dept. 1940-53, Prof. Emer. 1953-; Consultant, Rockefeller Foundation 1953-; Agent in charge of stem rust epidemiology studies at Fed. Rust Lab., St. Paul, in co-op. with the Univ. 1917-55; Guest Prof., Univ. of Halle-Wittenberg, Germany 1930-31; Hitchcock Prof., Univ. of Calif. 1955; Scientific Adviser, Firestone Plantations Co., Liberia 1930; Leader of rubber survey to N.W. South America, U.S. Dept. of Agriculture 1941; mem. Agricultural Survey Party to Mexico 1941; Scientific Mission to Japan, Supreme Command for Allied Powers 1948; mem. Nat. Comm. UNESCO 1950-56, Nat. Science Board 1951-54; mem. Advisory Cttee. on Biology and Medicine, U.S. Atomic Energy Comm. 1951-54, Chair. Advisory Cttee. 1953-54, Consultant 1954-59; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Det Norske Videnskaps-Akad., Oslo, etc.; Pres. American Phytopathological Soc. 1922, American Assn. for Advancement of Science 1949; numerous awards and hon. degrees. *Publications:* Principles of Plant Pathology (with J. G. Harrar) 1957, Campaigns against Hunger (with Bradfield and Mangelsdorf) 1967; approx. 300 scientific or educ. articles in various bulletins and journals. *Leisure interest:* general reading, sports. *Address:* 1411 Hythe Street, St. Paul, Minn. 55108, U.S.A. (Home).

STALEY, Edward, A.B.; American businessman; b. 2 Oct. 1903; ed. Miami and Harvard Univs.; with W. T. Grant Co. 1926; Regional Man. and Asst. Gen. Merchandising Man. Montgomery Ward 1933; Merchandising Dir. W. T. Grant Co. 1940, Vice-Pres. 1943, Gen. Man. and Dir. 1950, Pres. 1952-59, Vice-Chair. 1955-56, Chief Exec. Officer 1959, Chair. Board 1966-73, Chair. Exec. Cttee. 1973-74; Pres. New York City Commerce and Industry Assen. 1956-58, Dir. 1959-; Trustees, Grant Foundation. *Address:* 315 Lake Drive, Palm Beach, Florida 33480, U.S.A.

STAMBOLIĆ, Petar; Yugoslav politician; b. 12 July 1912; ed. Univ. of Belgrade; Member Young Communist League 1933, CP of Yugoslavia 1935-; organized resistance in Serbia 1941; Sec. Central Cttee. of Nat. Liberation Army and partisan units for Serbia 1943; Deputy and mem. Presidium Antifascist Council of Nat. Liberation of Yugoslavia 1943; mem. Central Cttee. of CP of Serbia 1945, Sec. 1948-57; First Vice-Chair. Council of Ministers, Serbia 1945-47; Pres. Exec. Council, Serbia 1948-53, Pres. Serbian Assembly 1953-57; Minister of Agric. and Forests, Yugoslavia 1947-48; Pres. Fed. People's Assembly 1957-63; Pres. Fed. Exec. Council 1963-67; mem. Collective Presidency of Yugoslavia 1974-, Vice-Pres. 1974-75; mem. Central Cttee. of CP of Yugoslavia 1948-, mem. Politbureau 1951-68, and Exec. Cttee. 1952-68, Cen. Cttee. League of Communists of Yugoslavia, Chair. Ideological Comm. 1948-63; mem. Presidium of Cen. Cttee. of League of Communists of Yugoslavia 1966-; mem.

Council of Fed. 1963-; Pres. Cen. Cttee. L.C. of Serbia 1968-; Order of Hero of the People and other decorations. *Address:* Collective Presidency of Yugoslavia, Belgrade, Yugoslavia.

STAMMATI, Gaetano; Italian banker; b. 5 Oct. 1908, Naples; s. of Gennaro Stammati and Anna d'Auria; m. Maria Fiore 1937; one s. one d.; ed. Univ. of Naples; fmr. Chief of Cabinet of Minister of Foreign Trade and Minister of Finance; Sec.-Gen. Econ. Council and Dir.-Gen. of Taxation, Ministry of Finance; Dir.-Gen. Ministry of State Participation; Chief of Cabinet of Minister of the Treasury and Dir.-Gen. of Treasury; Auditor-Gen. 1967-72; Pres. Banca Commerciale Italiana 1972-76; Minister of Finance Feb.-July 1976, of Treas. 1976-78, of Public Works 1978-79, of Foreign Trade March 1979-; Cavaliere di Gran Croce al Merito; Senator of the Republic. *Publications:* Capitalismo e Socialismo di fronte al problema del costo, Il problema economico della ricostruzione, Calmieri, tesseramenti e controllo della produzione, Imposta generale sulla entrata, La finanza pubblica, Il sistema monetario internazionale. *Address:*Senato della Republica, Piazza Madama, Rome, Italy. *Telephone:* 67061.

STAMP, Hon. Arthur Maxwell, M.A.; British economic consultant; b. 20 Sept. 1915, Twickenham, Middx.; s. of 1st Baron Stamp, G.C.B., G.B.E.; m. Alice Mary Richards 1944; one s. two d.; ed. Leys School, Cambridge, Zürich and Lausanne, and Clare Coll., Cambridge; called to the Bar (Inner Temple) 1939; war service as Lieut.-Col. in Intelligence Corps 1940-46; Financial Adviser and Dir. John Lewis Partnership Ltd. 1947-50; Acting Adviser to Bank of England 1950-53; Alt. Exec. Dir. for the U.K. IMF 1951-53; Dir. of European Dept., IMF 1953-54; Adviser to Bank of England 1954-57; Chair. Maxeast Ltd., Maxwell Stamp Associates Ltd.; Dir. Philip Hill, Higginson, Erlangers Ltd. 1958-65, Hill, Samuel & Co. Ltd. 1965-76, The De La Rue Co. Ltd. 1960-, Triplex Holdings Ltd. 1963-75, Godfrey Bonsack Ltd.,Pan Electric Corpn.,U.S.A. 1978-, Econs. Int. Inc.; Gov. L.S.E.; mem. Council Int. Chamber of Commerce 1961-75, CBI Econ. Cttee. 1968-, Exec. Cttee. Nat. Inst. of Econ. and Social Research 1965-76; mem. Civil Aviation Authority 1976-; Chair. Home Office Cttee. on Taxi-cab Trade 1967; Chair. The Rehearsal Orchestra. *Leisure interests:* music, photography. *Address:* Mulberry Green Farmhouse, Copford, Essex; and 19 Clarence Gate Gardens, Glentworth Street, London N.W.1, England. *Telephone:* Colchester 210231 (Essex); 01-723 9538 (London).

STAMPER, Malcolm T.; American aviation executive; b. 4 April 1925, Detroit; m. Mari Guinan; six c.; ed. Univ. of Michigan, Georgia Technical Coll., with Gen. Motors 1948-62; joined Boeing Co. 1962, Vice-Pres., Gen. Man. fmr. Boeing Turbine Div. 1965, Man. Boeing Everett Branch (now 747 Div.) 1966, in charge of 747 programme 1966-69, Gen. Man. Commercial Airplane Group 1969-71, Senior Vice-Pres. Operations 1971-72, Pres. 1972-. *Address:* The Boeing Co., P.O. Box 3707, Seattle, Washington 98124, U.S.A.

STANBURY, Hon. Robert Douglas George, P.C., Q.C.; Canadian executive, lawyer and fmr. politician; b. 26 Oct. 1929, Exeter, Ont.; s. of James George Stuart Stanbury and Elizabeth Jean (Hardy); m. Miriam Voelker 1952; two s. two d.; ed. Exeter and St. Catharines public schools, St. Catharines Coll. Inst., Univ. of Western Ontario and Osgoode Hall Law School; Pres. Canadian Univ. Liberal Fed. 1954; mem. North York Board of Educ. 1961-64, Vice-Chair. 1962, Chair. 1963-64; mem. Metropolitan School Board, Toronto 1963-64 and Metropolitan Toronto Planning Board 1963; mem. of Parl. 1965-77; Chair. House of Commons Standing Cttee. on Broadcasting, Films and Assistance to the Arts 1966-68; Parl. Sec. to Sec. of State of Canada 1968-69; Minister without Portfolio responsible for Citizenship 1969-71, for Information Canada 1970-71; Minister of Communications 1971-72; Minister of Nat. Revenue 1972-74; Del. to UN Gen. Assembly 1974, 1975, 1976; Chair. Canadian Group Inter-Parliamentary Union 1974-77; Founding Chair. Canadian Parl. Helsinki Group 1977-; Vice-Pres. Gen. Counsel and Sec., Firestone Canada Inc. 1977-. *Address:* Box 400, Hamilton, Ont. L8N 3J1, Canada. *Telephone:* 416-545-4711.

ŠTANCEL', Michal; Czechoslovak politician; b. 20 Oct. 1921, Malý Čepčin; ed. Commercial Acad., Martin, and Party School, Prague; Workers' Social Insurance Co., Bratislava 1942-45; Nat. Insurance, Bratislava 1945-51, Dir. 1951-52; Deputy Chair. Slovak Social Security Office 1953-60; Deputy Chair. State Social Security Office, Prague 1960-63, Chair. 1963-68; Chair. State Population Comm. 1963-68; Minister of Labour and Social Affairs 1968; mem. Central Cttee. CP of Czechoslovakia 1968-77; Minister of Labour and Social Affairs, Fed. Govt. of Č.S.S.R. 1969-, mem. Legislative Council 1969-; Deputy House of Nations of the Fed. Assembly 1971-; Czechoslovak rep. Conf. of Leading State Bodies of CMEA on Labour 1975-; Order of Labour and other decorations. *Address:* Ministry of Labour and Social Affairs, Prague 2, nábř. B. Engelse 42, Czechoslovakia.

STĂNESCU, Ion; Romanian politician; b. 23 Jan. 1929, Ghercești, Dolj County; ed. Faculty of Law, Budapest; served as officer in Ministry of Internal Affairs; Chair. Council of State Security 1967-72; Minister of Internal Affairs 1972-73; Minister, Sec. of State of Ministry of Industrial Building 1978-; Deputy Chair. of Council of Ministers 1977-78; mem. Grand Nat. Assembly 1965-, Union of Communist Youth 1944, leading functions 1948-51; mem. Romanian Communist Party (RCP) 1947-, Deputy Head of Section, RCP Cen. Cttee. 1962-64, First Sec. Regional Cttee. Oltenia 1964-67, First Sec. County Cttee., Dimbovita and Chair. County People's Council 1974-77; mem. RCP Cen. Cttee. 1969-, alt. mem. Exec. Political Cttee. 1969-74, Sec. of Cen. Cttee 1977-78; mem. Nat. Council of Socialist Unity Front 1968-. *Address:* Ministerul Construcțiilor Industriale, Splaiul Independenței 202 A, Bucharest, Romania. *Telephone:* 49 30 80.

STANFIELD, Hon. Robert Lorne, B.A., LL.B., Q.C., LL.D.; Canadian politician; b. 11 April 1914; m. Mary Stanfield (died 1977); m. 2nd Anne Stanfield 1978; ed. Ashbury Coll., Ottawa, Dalhousie and Harvard Univs.; Gov. Dalhousie Univ. 1949-56; Premier, Minister of Educ., Nova Scotia 1956-67; mem. Parl. for Halifax, Nova Scotia 1968-79; fmr. Leader Progressive Conservatives Nova Scotia; Leader of Opposition, Leader Nat. Progressive Conservative Party of Canada 1967-76. *Address:* 136 Acacia Avenue, Rockcliffe Park, Ottawa, Ont., Canada.

STANKIEWICZ, Witold, DR.HABIL.; Polish librarian, editor, and historian; b. 30 Aug. 1919, Kargoszynek; ed. Warsaw Univ.; official in co-operative societies; mem. Scientific Council, Co-operative Research Inst.; mem. History Inst. and Presidium of Cttee. of Historical Sciences, Polish Acad. of Sciences, Extraordinary Prof. 1977-; Chief Dir. Nat. Library 1962-; Chief Editor The National Library Yearbook 1965-; Vice-Chair. Nat. Library Council 1969-; Chair. Polish Librarians Assn. 1972-. *Publications:* People's Newspaper Publications in the Polish Kingdom 1905-1914 1957, History of the Polish People's Movement in Outline (co-author) 1963, 1970, Social Conflicts in Rural Poland 1918-20 1963, Source Materials to the History of the Peasant Movement (co-author) 1966, Programmes of the People's Parties (co-author) 1969, The Political Archives of Ignace Jan Paderewski, Vols. 1-4 (co-editor) 1973-74 and numerous articles on Polish history and libraries. *Address:* Biblioteka Narodowa, ul. Hankiewicza 1, 00-973 Warsaw, Poland.

STANLEY, Henry Sydney Herbert Cloete, C.M.G.; British diplomatist; b. 5 March 1920; s. of Sir Herbert Stanley and Reniera Cloete; m. Margaret Dixon 1941; three s.; ed. Eton and Balliol Coll., Oxford; Commonwealth Relations Office 1947; served in Pakistan 1950-52, Swaziland and S. Africa 1954-57, U.S.A. 1959-61, Tanganyika 1961-63, Kenya 1963-65; Inspector, H.M. Diplomatic Service 1966-68, Chief Inspector 1968-70; High Commr. to Ghana 1970-75, to Trinidad and Tobago 1977-. *Address:* c/o Foreign and Commonwealth Office, London, S.W.1, England.

STANOVNIK, Janez; Yugoslav politician, economist and international official; b. 4 Aug. 1922, Ljubljana; s. of Ivan Stanovnik and Ana Jeglich; m. Dragica Dragovich 1953; four s.; ed. Faculty of Law, Ljubljana Univ., and Inst. for Social Sciences, Belgrade; took part in Nat. Liberation Struggle 1941-45; fmr. Dir. of Exec. Office of Vice-Pres. and Foreign Minister 1945-52; Econ. Counsellor to Yugoslav Perm. Mission in New York 1952-55; Dir. of Inst. for Int. Econs. and Policy in Belgrade 1955-61; Prof. of Econs. Ljubljana Univ. 1961-65; special adviser Sec.-Gen. UNCTAD 1965-67; mem. of Yugoslav Fed. Parl. and Govt. mem. (in charge of foreign trade) 1967-68; leader of del. to UNCTAD II (Delhi) 1968; Exec. Sec. of UN Econ. Comm. for Europe 1968; Under-Sec.-Gen. of UN. *Publications:* dealing with problems of the world economy from point of view of developing countries. *Address:* Economic Commission for Europe, Palais des Nations, Geneva; 9 avenue Krieg, 1208 Geneva, Switzerland (Home). *Telephone:* 34-60-11 (Office); 47-83-10 (Home).

STANS, Maurice Hubert, C.P.A., LL.D.; American investment banker and government official (retd.); b. 22 March 1908, Shakopee, Minn.; s. of J. Hubert Stans and Mathilda Nyssen; m. Kathleen Carmody 1933; two s. two d.; ed. Northwestern Univ., Columbia Univ.; joined Alexander Grant and Co., Chicago 1928; exec. partner 1940-55; Dir. ten other business corpns. 1935-55; Financial Consultant to U.S. Postmaster Gen. 1953-55; Deputy Postmaster Gen. 1955-57; Dir. Bureau of the Budget, U.S. Govt. 1958-61; Pres. Western Bancorporation 1961-62; Vice-Chair. United Calif. Bank 1961-62; Sr. partner, William R. Staats & Co. 1963-65; Pres. Glore Forgan, Wm. R. Staats Inc. 1965-69; Finance Chair. Nixon for

President Cttee. 1968-69; Chair. Republican Nat. Finance Cttee. 1968-69, 1972-73, Finance Cttee. to Re-elect the President 1972-73; indicted by U.S. District Court May 1973, found not guilty April 1974; Trustee and Dir. several cos.; U.S. Sec. of Commerce 1969-72; fmr. Pres. American Inst. of Certified Public Accountants 1954; Outstanding Service citation, American Inst. of C.P.A.'s and American Accounting Assn. 1952; elected Accounting Hall of Fame 1960-62; Republican; twelve hon. degrees; Tax Foundation Public Service Award 1959, Great Living American Award of U.S. Chamber of Commerce 1961. *Publication:* The Terrors of Justice 1978. *Leisure interests:* fishing, hunting. *Address:* 211 So. Orange Grove Avenue, Pasadena, Calif. 91105, U.S.A. *Telephone:* 795-2318.

STANTON, Frank (Nicholas), PH.D.; American administrator; b. 20 March 1908, Muskegon, Mich.; s. of Frank Cooper Stanton and Helen Josephine Schmidt; m. Ruth Stephenson 1931; ed. Ohio Wesleyan Univ., Ohio State Univ.; Dir. CBS Inc. 1945-78, Pres. 1946-71, Vice-Chair. 1971-73; Chair. American Red Cross 1973-, Vice-Pres. League of Red Cross Socs., Geneva; Licensed Psychologist, N.Y.; Diplomate, American Board of Professional Psychology; Dir. New York Life Insurance Co., Atlantic Richfield Co., Pan American World Airways Inc., American Electric Power Co. Inc., New Perspective Fund, Inc., Interpublic Group of Cos. Inc., Book Digest Inc., The Observer Ltd., Simplicity Pattern Co.; Trustee Nat. Humanities Center, American Crafts Council 1957-75, Inst. for Architecture and Urban Studies 1970-75, New York City Rand Inst. 1969-75, Rockefeller Foundation 1961-73, The Rand Corpn. 1956-78; Chair. Carnegie Inst. of Washington; Founding Chair. and Trustee, Center for Advanced Study in the Behavioural Sciences 1953-71; Chair. U.S. Advisory Comm. on Information 1964-73; Co-Founder, Office of Radio Research, Princeton Univ. 1937; Chair., Panel on Int. Information, Educ. and Cultural Relations, Georgetown Univ. 1974-75; Dir. Recorded Anthology of American Music Inc., Lincoln Center for the Performing Arts 1960, Business Cttee. for the Arts 1967-77, Chair. 1972-74, Municipal Art Soc. of New York 1974-77; mem. The Business Council 1956-; American Fed. of Arts Int. Exhbns. Cttee., N.Y. Council on the Arts 1965-70, Advisory Council, Rockefeller Archive Centre 1974-78; Rockefeller Univ., Nat. Portrait Gallery Comm. 1977-, Board of Overseas Harvard 1978-; Fellow, American Assn. for the Advancement of Science, American Psychological Assn., American Acad. Arts and Sciences, New York Acad. of Science; mem. Architectural League of N.Y., Council on Foreign Relations Inc., Inst. of Electrical and Electronic Engineers, Nat. Acad. of Television Arts and Sciences, Radio-Television News Dirs. Assn., Int. Radio and Television Soc.; numerous medals, awards, and hon. degrees. *Publications:* Students' Guide—The Study of Psychology (co-author) 1935, Radio Research 1941, Radio Research 1942-43, Communications Research 1948-49 (co-editor); Films: Some Physiological Reactions to Emotional Stimuli 1932, Factors in Visual Depth Perception 1936, International Information, Education and Cultural Relations—Recommendations for the Future 1975. *Address:* 10 East 56 Street, New York, N.Y. 10022 (Office); also American Red Cross, Washington, D.C., 20006, U.S.A. *Telephone:* (212) 752-4445; (202) 857-3443.

STANWYCK, Barbara (Ruby Stevens); American actress; b. 16 July 1907, Brooklyn, New York; d. of Byron and Catherine (née McGee) Stevens; m. 1st Frank Fay 1928 (divorced 1935); one s.; 2nd Robert Taylor 1939 (divorced 1951); appeared in several Ziegfeld Follies and George White Scandals; also appeared on Broadway in Burlesque 1927 and Tattle Tales 1933; film début in The Locked Door 1929; other films include Ladies of Leisure 1930, Miracle Woman 1931, Night Nurse 1931, Forbidden 1932, The Bitter Tea of General Yen 1933, Baby Face 1933, The Secret Bride 1935, Annie Oakley 1935, His Brother's Wife 1936, Stella Dallas 1937, Always Goodbye 1938, Golden Boy 1939, The Lady Eve 1941, Meet John Doe 1941, Ball of Fire 1941, Flesh and Fantasy 1943, Double Indemnity 1944, My Reputation 1945, The Strange Love of Martha Ivers 1946, Two Mrs. Carrolls 1947, Sorry Wrong Number 1948, The Furies 1949, Clash by Night 1953, Titanic 1953, Executive Suite 1954, Witness to Murder 1954, Escape to Burma 1955, Crime of Passion 1957, Forty Guns 1957, Roustabout 1964, The Night Walker 1965. Television includes guest appearances on Jack Benny, Ford Theater, Zane Grey and Alcoa Goodyear; Barbara Stanwyck Show (series) 1960-61, The Big Valley (series) 1965-69; The House That Would Not Die 1970, A Taste of Evil 1971, The Letters 1973. *Address:* 151 El Camino, Beverly Hills, Calif. 90212, U.S.A.

STAPP, Col. John Paul; PH.D., M.D., SC.D.; American fmr. air force officer and aerospace scientist; b. 11 July 1910, Bahia, Brazil; s. of late Rev. and Mrs. Charles F. Stapp; m. Lillian Lanese 1957; ed. Baylor Univ. (Texas), Univs. of Texas and Minnesota and School of Aviation Medicine; joined U.S. Air Force Medical Corps 1944; pioneer of research on effects of mechanical force on living tissues, especially with regard to high-speed flight and space flight; conducted rocket sled deceleration tests on himself; planned and directed high-altitude (102,000 feet) manned balloon flights 1957; organized Aeromedical Facility (Edwards Air Force Base, Calif.) and Aeromedical Field Lab. (Holloman Air Force Base, N.M.); Chief Aerospace Medical Lab., Wright Air Development Div. (Wright-Patterson Air Force Base, Ohio) 1958-60; Special Asst. Advanced Studies, Aerospace Medical Center (Brooks Air Force Base, Tex.) 1960-61, Chief Scientist 1961-65; Chief of Impact Injury, Armed Forces Inst. of Pathology 1965-67; retired from U.S. Air Force 1970; Chief Scientist (Medicine) Nat. Highway Safety Traffic Admin. 1967-70; Vice-Pres. Int. Astronautical Fed. 1960; Perm. Chair. Annual Stapp Car Crash Conf. 1955-; Pres. Civil Aviation Medical, Assn. 1968; Consultant Dept. of Transport 1970-, Science Lab., New Mexico State Univ. 1972-; Adjunct Prof. Univ. Southern Calif. Systems Man. Center 1972-; Adviser Los Angeles Systems Man. Center 1973-; Fellow, American Inst. Aeronautics and Astronautics, British Inter-planetary Soc.; mem. Int. Acad. Astronautics, Int. Acad. Aviation and Space Medicine, American Medical Assn., Nat. Research Council Int. Acad. Aviation Medicine, etc.; many awards include: John Jefferies Award 1953, Cheney Award 1955, Liljenkrantz Award 1957, Gorgas Medal 1957, Commdr. Legion of Merit 1955, Distinguished Service Medal (U.S.A.F.) 1971, Elliot Cresson Medal of Franklin Inst. 1973, Excalibur Award, Nat. Motor Vehicle Safety Council 1975, Certificate of Achievement Nat. Space Club 1976; elected to Int. Space Hall of Fame 1979. *Publications:* Human Exposure to Linear Deceleration (Journal of Aviation Medicine) 1950, Crash Protection in Air Force Transports (Aeronautical Engineering Review) 1953, Effects of Mechanical Force on Living Tissue (Journal of Aviation Medicine) 1955, 1956 and 1958, Space Cabin Landing Impact Vector Effects on Human Physiology 1964, Biomechanics of Injury in the Prevention of Highway Injury 1967, Voluntary Human Tolerance Levels in Impact Injury and Crash Protection 1970, Biodynamics of Deceleration, Impact and Blast in Aerospace Medicine 1971. *Leisure interests:* travel, writing, music, teaching. *Address:* P.O. Box 553, Alamogordo, N.M. 88310, U.S.A. *Telephone:* 505-437-3645.

STAR BUSMANN, Eduard, LL.D.; Netherlands diplomatist; b. 1904, Bussum; m. Jonkvrouwe Ariana Röell 1929; two d.; ed. Utrecht Univ.; Attaché, Berlin 1929, Second Sec., Paris 1932; Second Sec., Berlin 1935, First Sec. 1936; First Sec., Copenhagen 1937; First Sec., Pretoria 1938, Counsellor 1940; Head, Legal Dept., Netherlands Foreign Office, London, also Netherlands rep. with Fighting French and Judge Netherlands Maritime Court 1941; Head of Political Dept., Netherlands Foreign Office 1945; Minister at Embassy, Paris 1946; Sec.-Gen. Brussels Treaty Organization, London 1948-53; Amb. to Austria 1953-58; Amb. to U.A.R., concurrently accred. to Libya 1958-63, to U.S.S.R. 1963-65, to Switzerland 1966-69; Del. San Francisco Conf. 1945, Paris Peace Conf. 1946, Geneva Conf. on Law of the Sea 1958; Officer, Order of Orange Nassau (Netherlands); Grand Officier, Légion d'honneur (France); Commdr. Order of St. Olav (Norway); Grand Officer Order of Leopold II (Belgium); Chevalier, Order of Netherlands Lion; Grand Cross, Order of Merit (Austria) and Order of the Oak Crown (Luxembourg). *Address:* 1781 Cordast, Switzerland. *Telephone:* (037) 341753.

STAREWICZ, Artur; Polish politician; b. 20 March 1917, Warsaw; s. of Jan and Hermenegilda Starewicz; m. Maria Rutkiewicz 1947; two s. two d.; ed. Lvov Technical Univ.; mem. revolutionary youth orgs., incl. Communist Union of Polish Youth (KZMP); arrested 1935 and 1936, studied in France 1937-38, Lvov 1939-41; chemical engineer in Soviet electrotechnical industry 1943-44; mem. Polish Workers Party (PPR) 1944-48, Polish United Workers' Party (PZPR) 1948-; worked in PPR Voivodship Cttee. At Rzeszow, then Cracow and Warsaw, First Sec. of PPR Voivodship Cttee. in Wrocław 1946-48; Head of Propaganda, PZPR Cen. Cttee. 1948-53; Sec. of Cen. Council of Trade Unions 1954-56; Deputy Editor-in-Chief of daily Trybuna Ludu 1956; Alt. mem. PZPR Central Cttee. 1954-59, mem. 1959-71, Head of Press Office 1957-63, Sec. 1963-71; Amb. to U.K. 1971-78; mem. Seym 1957-72; Chair. Polish Group of Interparliamentary Union -1972; Order of the Banner of Labour, First Class 1954, 1964, and others. *Leisure interest:* aquatic sport. *Address:* Ministry of Foreign Affairs, Al. 1 Armii Wojska Polskiego 23, 00-580 Warsaw; Stępinska 49A m. 10, 00-739 Warsaw, Poland (Home).

STARIBACHER, Josef, DR.RER.POL.; Austrian politician; b. 25 March 1921, Vienna; s. of Josef and Marianne (née Ine) Staribacher; m. Gertrude Mayerhofer 1943; two s.; ed. Univ. of Vienna; joined Vienna Chamber of Labour 1945, Deputy Dir. 1961-68, Dir. 1968; Chair. Food, Beverage and Tobacco Workers' Union 1961-; mem. Nationalrat 1961-; Minister for Trade, Commerce and Industry

April 1970-; Socialist Party. *Leisure interests:* sports (walking, cycling). *Address:* Ministry for Trade, Commerce and Industry, Vienna, Austria.

STARK, Sir Andrew Alexander Steel, K.C.M.G., C.V.O., M.A.; British diplomatist (retd.); b. 30 Dec. 1916, Fauldhouse, Scotland; s. of Thomas Bow Star, and Barbara Black Stark; m. Rosemary Helen Oxley Parker 1944; three s. (one deceased); ed. Bathgate Acad. and Univ. of Edinburgh; British Army 1940-46; entered Diplomatic Service 1948, First Sec., British Embassy, Vienna 1951-53; Asst. Private Sec. to Sec. of State 1953-56; First Sec., British Embassy, Belgrade 1956-58, Rome 1958-60; Counsellor, Head of Establishment and Org. Dept., Foreign Office 1960-63; Counsellor British Embassy, Bonn 1964-68; Amb. British Mission to UN 1968; UN Under-Sec.-Gen. (Admin. and Management) 1968-71; Amb. to Denmark 1971-76; Deputy Under-Sec. of State, Foreign and Commonwealth Office 1976-78; Chair. Maersk Co. Ltd.; Dir. Scandinavian Bank Ltd.; Advisor on European Affairs to Soc. of Motor Manufacturers and Traders Ltd. 1978-; Grosses Verdienstkreuz, Fed. Repub. of Germany 1965, Kt. Grand Cross, Order of the Dannebrog 1974. *Leisure interests:* reading, music, skiing, tennis, golf. *Address:* Fambridge Hall, White Notley, Witham, Essex, England. *Telephone:* Silver End 83117.

STARK, Dame Freya Madeline, D.B.E.; British explorer and writer; b. 31 Jan. 1893, Paris, France; d. of Robert Stark and Flora (née Stark); m. Stewart Perowne 1947 (separated); ed. School of Oriental Studies and privately; travelled in Middle East and Iran 1927-31 and in South Arabia 1934-35, 1937-38; joined Min. of Information Sept. 1939, sent to Aden 1939, Cairo 1940, Baghdad 1944, U.S.A. and Canada 1943; Hon. LL.D. (Glasgow Univ.) 1952, Hon. D.Litt. (Durham Univ.) 1970; Founder's Medal, Royal Geographical Soc., Mungo Park Medal, Royal Scottish Geographical Soc., Sir Percy Sykes Medal, Royal Central Asian Soc., Burton Medal, Royal Asiatic Soc. *Publications:* The Valleys of the Assassins 1934, The Southern Gates of Arabia 1936, Baghdad Sketches 1937, Seen in the Hadhramaut 1938, A Winter in Arabia 1940, Letters from Syria 1942, East is West 1945, Perseus in the Wind 1948, Traveller's Prelude 1950, Beyond Euphrates 1951, The Coast of Incense 1953, Ionia: A Quest 1954, The Lycian Shore 1956, Alexander's Path 1958, Riding to the Tigris 1959, Dust in the Lion's Paw 1961, The Journey's Echo 1963, Rome on the Euphrates 1966, The Zodiac Arch 1968, Space, Time and Movement in Landscape 1969, The Minaret of Djam 1970, Turkey: Sketch of Turkish History 1971, Selected Letters (4 vols.) 1974, 1975, 1976, 1977; A Peak in Darien 1976. *Leisure interests:* gardening, mountaineering, embroidery. *Address:* Via Canova, Asolo, Treviso, Italy; and c/o John Murray, 50 Albemarle Street, London, W.1, England.

STARKE, H. F. Gerhard, DR. PHIL.; German newspaper editor; b. 16 Aug. 1916, Berbersdorf; s. of Richard Starke and Elsbeth née Burghaus; m. Ingeborg Bechmann-Baumgarten 1941; ed. Univs. of Leipzig and Geneva; Editor Deutsche Allgemeine Zeitung, Berlin 1939-45; Editor Prisma and Thema (cultural periodicals), Munich and Gauting 1946-49; Chief Editor and Chief Political Dept., Nordwestdeutscher Rundfunk (NWDR) and Norddeutscher Rundfunk (NDR), Hamburg 1949-61; Dir. Deutschlandfunk, Cologne 1961-66; Chief Editor Die Welt, Hamburg Sept. 1966-68; agent in Bonn for Axel Springer publishing group 1969. *Leisure interests:* philosophy and political sciences. *Address:* 5300 Bonn-Bad Godesberg, Deutschherrenstrasse 7, Federal Republic of Germany. *Telephone:* 33-00-31.

STARKE, Dr. Heinz; German politician; b. 27 Feb. 1911, Schweidnitz; s. of Fritz Starke and Margarete Dorn; m. Madeleine Nuel 1958; ed. Univs. of Berlin, Breslau and Jena; worked for Econ. Admin. Body of British Zone of Occupation; fmr. Dir. Bayreuth Chamber of Commerce; mem. European Assembly 1958-; mem. Bundestag 1953-; Minister of Finance 1961-62; mem. Free Democratic Party until 1970, Christian Social Union 1970-. *Leisure interest:* history and history of the arts. *Address:* Europastrasse 6, 53 Bonn 2, Federal Republic of Germany. *Telephone:* Bonn 375049.

STARKER, Janos; American (b. Hungarian) cellist; b. 5 July 1924; s. of Margit and Sandor Starker; m. Rae Busch Starker 1960; two d.; ed. Franz Liszt Acad. of Music, Budapest; solo cellist, Budapest Opera House and Philharmonic Orchestra 1945-46; solo cellist Dallas Symphony Orchestra 1948-49, Metropolitan Opera Orchestra 1949-53, Chicago Symphony Orchestra 1953-58; Resident cellist and Prof. of Music, Indiana Univ. 1958-, Distinguished Prof. of Music; inventor of Starker bridge for orchestral string instruments; Hon. D.Mus. (Indiana) 1961; Grand Prix du Disque 1948, George Washington Award; world-wide concert tours, numerous recordings and magazine articles. *Publications:* Method 1964, Bach Suites 1971. *Address:* 1241 Winfield Road, Bloomington, Ind. 47401, U.S.A.

STARNES, John Kennett; Canadian diplomatist (retd.); b. 5 Feb. 1918, Montreal; s. of Henry Kennett Starnes and Altha Ella McCrea; m. Helen Gordon Robinson 1941; two s.; ed. Trinity Coll. School, Port Hope, Institut Sillig, Swtizerland, Univ. of Munich and Bishop's Univ.; Canadian Army 1940-44; Dept. of External Affairs 1944-70; Adviser, Canadian Del. to UN 1948-50; First Sec., later Counsellor, Bonn 1953-56; Deputy Exec. Sec. North Atlantic Council, Paris 1956-58; Amb. to Fed. Repub. of Germany and Head of Canadian Mil. Mission, Berlin 1962-66, to United Arab Repub. 1966-67 and to Repub. of Sudan 1967; Asst. Under-Sec. of State for External Affairs 1967-70; Dir.-Gen. Security Service, Royal Canadian Mounted Police 1970-73; mem. Council, Int. Inst. for Strategic Studies, London 1975-, North American Council, Int. Peace Acad., N.Y. 1977-; D.C.L. h.c., Bishop's Univ. 1975. *Leisure interests:* skiing, philately, photography. *Address:* Apt. 305, 333 Chapel Street, Ottawa, Ont., Canada K1N 8Y8. *Telephone:* 235 8628.

STARR, Albert, M.D.; American cardiac surgeon; b. 1 June 1926, New York, N.Y.; m. two s.; ed. Columbia Coll., Coll. of Physicians and Surgeons; Intern and Resident, Johns Hopkins Hosp., Bellevue, and Presbyterian Hosp., Columbia Univ.; Prof. of Surgery and Chief, Div. of Cardiopulmonary Surgery at Univ. of Oregon Medical School 1965-; OMSI Scientist of the Year 1961, OHA Award for Scientific Achievement 1964, Modern Medicine Award 1971, Golden Plate Award, American Acad. of Achievement 1973, Griffith Visiting Professorship, Los Angeles American Heart Assn. 1976, Dir. American Board of Thoracic Surgery. *Publications:* Total Mitral Valve Replacement: Fixation and Thrombosis 1960, The Present Status of Valve Replacement 1965, Mechanical Valve Replacement 1968, Mitral Valve Replacement with Ball Valve Prostheses 1971, Total Correction of Tetralogy of Fallot in Infancy 1973, Cardiology in Old Age 1976, Surgery for Acquired Mitral Valve Disease in Rhoad's Textbook of Surgery 1977, Aortic Valve Replacement: Prosthesis in Butterworth's Operative Surgery; co-author: A Clinical Textbook of Cardiac Valve Prostheses 1978, Manual of Cardiac Surgery (2 vols.), comprehensive manuals of Surgical Specialities (ed. R. H. Egdahl). *Leisure interests:* skiing, jogging, riding. *Address:* University of Oregon Medical School, 3181 S.W. Sam Jackson Park Road, Portland, Ore. 97201, U.S.A. *Telephone:* (503) 225-7820.

STARR, Isaac, B.S., M.D.; American university medical scientist; b. 6 March 1895, Philadelphia, Pa.; s. of Isaac and Mary Barclay Starr; m. Edith Nelson Page 1922; three s. one d.; ed. Princeton Univ. and Univ. of Pennsylvania; House Officer, Mass. Gen. Hospital 1920-22; Instr. in Pharmacology, Univ. of Pennsylvania 1922-28, Asst. Prof. of Clinical Pharmacology 1928-33; Hartzell Research Prof. of Therapeutics 1933-45 and 1948-61; Prof. of Therapeutic Research, Univ. of Pennsylvania 1945-48; Dean of the School of Medicine 1945-48, Emeritus Prof. Therapeutic Research 1961-; during the Second World War served as Chair. Sub-Cttee. on Pharmacy, Sec. Sub-Committee on Essential Drugs, Committee on Medical Supplies, Nat. Research Council; Responsible Investigator, O.S.R.D.; Project on Convalescence, Investigator Aviation Medicine and Anti-malarials; mem. Cttee. on Narcotics and Drug Addiction (Chair. 1947-60), Cttee. on Problems of Alcohol, National Research Council; Chair. Council on Drugs, American Medical Assn. 1960-63; mem. Cardiovascular Study Section, Nat. Inst. of Health 1946-51; Consultant U.S. Navy A.M.A.L. 1949-64, U.S. Army Chemical, Biological and Radiological Agency 1962-66; Editor Board Circulation 1949-53, 1955-59; Selective Service Medal; Lasker Award, American Heart Assn. 1957; Kober Medal, Assn. American Physicians 1967; Burger Medal, European Ballistocardiographic Soc. 1975. *Publications:* Over 100 publications on renal physiology, drug action in man, cardiac output in man, action of derivatives of choline in man, peripheral vascular disease and its treatment, the ballistocardiogram and its utility, the pulse derivative and cardiac contractility; Ballistocardiography in Cardiovascular Research (in collaboration with A. Noordergraaf) 1967. *Leisure interests:* gardening, fly fishing. *Address:* 851 Gates Memorial Pavilion, University Hospital, 36th and Spruce Streets, Philadelphia, Pa. 19104, U.S.A. *Telephone:* 662-3328.

STARR, Ringo (Richard Starkey), M.B.E.; British entertainer; b. 7 July 1940, Dingle, Liverpool; m. Maureen Cox 1965 (divorced 1975); two s. one d.; ed. Dingle Vale Secondary Modern School; plays drums; formerly an apprentice engineer; played with Rory Storme's Hurricanes 1959-62; joined The Beatles Aug. 1962; appeared with The Beatles in the following activities: performances in Hamburg 1962; toured Scotland, Sweden, U.K. 1963, Paris, Denmark, Hong Kong, Australia, New Zealand, U.S.A., Canada 1964, France, Italy, Spain, U.S.A. 1965, Canada, Spain, Philippines, U.S.A. 1966; attended Transcendental Meditation Course at

Maharishi's Acad., Rishikesh, India Feb. 1968; formed Apple Corps Ltd., parent org. of The Beatles Group of Companies 1968; following break-up of group, now records solo. *Recordings by the Beatles include:* Please, Please Me 1963, With the Beatles 1963, A Hard Day's Night 1964, Beatles for Sale 1965, Help! 1965, Rubber Soul 1966, Revolver 1966, Sergeant Pepper's Lonely Hearts Club Band 1967, The Beatles (White Album) 1968, Yellow Submarine 1969, Abbey Road 1969, Let It Be 1970. *Films by The Beatles:* A Hard Day's Night 1964, Help! 1965, Yellow Submarine (animated colour cartoon film) 1968, Let it be 1970; TV film Magical Mystery Tour 1967. *Individual appearances in films:* Candy 1968, The Magic Christian 1969, 200 Motels 1971, Blindman 1971, That'll be the Day 1973, Born to Boogie (also directed and produced) 1974, Son of Dracula (also produced) 1975, Lisztomania 1975, Ringo Stars 1976.

STARRENBURG, Willem F. G. L.; Netherlands oil executive; b. 1908; ed. Technische Hogeschool Te Delft; joined Royal Dutch/Shell 1932, early service as development engineer; Man. Western Div. Venezuela 1950-56; Head, Production Dept. The Hague 1956-57, Co-ordinator Exploration and Production 1957-60; Regional Co-ordinator (Oil), Caribbean, Central and S. America 1960-61; Dir. of Co-ordination (Chemical) 1961-62; Asst. Man. Dir. Royal Dutch Petroleum Co. 1962-63, Man. Dir. 1963-68; Dir. Shell Petroleum N.V.; Dir. Shell Research N.V. 1964-68. *Address:* Wassenaarseslag 2, Wassenaar, Netherlands.

STASI, Bernard, L. EN D.; French politician; b. 4 July 1930, Reims; ed. Institut d'Etudes Politiques, Paris and Ecole Nationale d'Administration; attached to the Cabinet of the Pres. of the Nat. Assembly 1955; served in army 1955-57; Civil Admin., Ministry of Interior 1959; Chef de Cabinet to the Prefect of Algiers 1959-60; Head of Section, Directorate-Gen. of Political Affairs and Territorial Admin., Ministry of Interior 1960-62; Tech. Adviser, Cabinet of the Sec. of State for Youth and Sports 1963-65; Directeur de Cabinet to the Sec. of Overseas Depts. 1966-68; Deputy from Marne, Nat. Assembly 1968-73, mem. Comm. on Cultural, Social and Family Affairs; charged with missions to Israel, Great Britain, Cuba and Chile; Mayor of Epernay 1970-; Vice-Pres. Centre Démocratie et Progrès 1969-; Minister for Overseas Depts. and Territories 1973-74; Fed. Sec. Féd. des Réformateurs 1975-; mem. Regional Council of Champagne-Ardenne 1976-; Vice-Pres. Centre des Démocrates Sociaux 1976; Pres. Fédération française de course d'orientation 1970-; Founder, Groupe d'études parlementaires pour l'aménagement rural 1970; Board of Dirs. Association des Maires de France; mem. various municipal orgs.; fmrly. active mem. of youth movements; Officier de Réserve, Chevalier des Palmes académiques, Officier du Mérite sportif, Grand' Croix de l'Ordre du Croissant vert (Comoros), Grand' Croix de l'Ordre de l'Etoile d'Anjouan. *Publication:* Le Piège (with J. P. Soisson and O. Stirn). *Leisure interests:* football, tennis, skiing, sailing. *Address:* 11 allée des Pyramides, 51200 Epernay; 20 rue du Commandant-Mouchotte, 75014 Paris, France. *Telephone:* 51-34-30 (Epernay); 567-17-42 (Paris).

STASIAK, Ludomir; Polish state official; b. 3 Oct. 1919, Góry, Puławy; ed. Higher School of Social Services, Warsaw; active in ZMW (Rural Youth Union—"Wici") 1938; during Second World War fought with Peasant Bns., Commdr. Peasant Bn. region and mem. Editorial Board of illegal paper Orle ciosy; after War was Sec. of Cen. Board of "Wici" and Co-organizer and Vice-Chair. of its Nat. Cttee. for Democratic Action; Sec. Cen. Board of ZMP (Polish Youth Union) 1948; Sec. Cen. Cttee. of ZSL (United Peasant Party) 1951-54, 1956-69, mem. Praesidium ZSL Cen. Cttee. 1969-76, mem. Cen. Cttee. 1976-; Dep. to Seym 1952-; Sec. Council of State 1969-; mem., Presidium, All Polish Cttee. of Nat. Unity Front 1956-,Sec.1958-; Chair. Soc. for Polish-Arabian Friendship 1978-; decorations include Order of Banner of Labour 1st Class, Commdr. Cross of Order of Polonia Restituta, Grunwald Cross 3rd Class, Silver Cross of Merit. *Address:* Kancelaria Rady Pánstwa, ul. Wiejska 2/4/6, 00-489 Warsaw, Poland.

STASSEN, Harold E., A.B., LL.B.; American lawyer and politician; b. 13 April 1907; ed. Univ. of Minnesota; mem. law firm of Stassen & Ryan, South St. Paul, Minn. 1930-38; County Attorney, Dakota Co. 1931-38; Gov. of Minn. 1938-42; Chair. Nat. Governors' Conf. 1941 and 1942; Chair. Council of State Govts. 1940-41; resigned ■ Gov. to enter U.S. Navy ■ Lieut.-Commdr. 1943; served on staff of Admiral Halsey in Pacific Theatre ■ Halsey's Flag Sec. and later ■ Asst. Chief of Staff for Admin. of Third Fleet 1943-45; mem. U.S. del. to San Francisco Conf. 1945; Pres. Univ. of Pa. 1948-53; Dir. Foreign Operations Admin. 1953-55; Special Asst. to Pres. on Disarmament Problems (with cabinet rank) 1955-58; partner Stassen, Kephart, Sarkis and Scullin 1958-; Pres. Int. Council of Religious Educ. 1942-50; Vice-Pres. Nat. Council of Churches 1950-52; Pres. American Baptist Convention 1963-64; Chair. Int. Law Cttee. of Philadelphia Bar Assn. 1973; Hon. LL.D., Hon. L.H.D.; Legion of Merit; Bronze Star; Republican. *Publications:* Where I Stand 1947, Man was Meant to be Free 1951. *Address:* 2300 Two Girard Plaza, Philadelphia, Pa. 19102 (Office); Penn Towers, Philadelphia, Pa. 19103, U.S.A. (Home).

STASSINOPOULOS, Michael; Greek politician, university professor and judge; b. 27 July 1905, Calamata; s. of Demetrios Stassinopoulos ■d Catherine Scopetou; m. Stamatia Ritsoni 1942; one d.; ed. Athens Univ.; Lecturer in Admin. Law, Athens Univ. 1937-68; Prof. Admin. Law, High School of Political Sciences, Athens 1939-68, Dean 1951-58; State Council Adviser 1943-58; Political Adviser to Dodecanese Gov. 1947; Chair. Cttee. for the Civil Servants Code 1948; Minister of the Press and subsequently Minister of Labour 1952; Chair. Hellenic Nat. Broadcasting Inst. Admin. Board 1953; Chair. Nat. Opera Admin. Board 1953-63; Minister of the Press 1958; Vice-Pres. State Council 1963, Pres. 1966-69; mem. Parl. Nov.-Dec. 1974; Pres. of Greece Dec. 1974-June 1975; Judge ad hoc, Int. Court of Justice, The Hague 1976-78; mem. Acad. of Athens 1968, Pres. 1978; Chief Justice until 1974; Dr. h.c. (Univ. of Bordeaux) 1957, Dr. h.c. (Univ. of Paris) 1974, Order of St. George (First Class). *Publications:* The States' Civil Responsibility 1949, Administrative Acts Law 1950, Civil Service Laws 1951, Administrative Disputes Laws 1953, Principles of Administrative Law 1954, Principles of Public Finance 1956, Traité des actes administratifs (in French), Poems 1949, The Land of the Blue Lakes 1950, Harmonia (poems) 1956, Thought and Life (essays) 1970, The Wolf's Law (essays) 1972, Le droit de la défense (in French) 1977, Political History of Greece 1978. *Leisure interests:* poetry, cinema, gardening. *Address:* Taygetoy Street 7, (Psichicon), Athens, Greece. *Telephone:* 6713-197.

STĂTESCU, Constantin, LL.D.; Romanian lawyer and politician; b. 27 Nov. 1927, Curtea de Argeş; ed. Faculty of Law, Univ. of Bucharest; mem. of Staff, Faculty of Law, Bucharest 1950-66, Prof. 1967-; Justice, Supreme Court of Romanian S.R. 1964-67, Vice-Pres. 1967-75, Pres. 1975-; mem. Grand Nat. Assembly 1965-; Sec. State Council 1967-75; mem. Romanian Communist Party, of Cen. Cttee. 1974-; Minister of Justice 1977-; mem. Acad. of Social and Political Sciences 1970-. *Publications:* Works and textbooks on Common Law, State Arbitration and Arbitration Practice 1962, Civil Law 1967, 1970, 1973. *Address:* Ministry of Justice, Bucharest, Romania.

STAVROPOULOS, Constantin Anghelos; Greek lawyer, politician and fmr. United Nations official; b. 15 Aug. 1905, Athens; m. Giannina Colquhoun 1969; ed. Univ. of Athens and London School of Economics; private legal practice 1929-33, 1936-39; Sec.-Gen. and Acting Gov. Epirus 1933-36; Legal Adviser, Royal Greek Embassy, London 1941-46, Pres. Greek Maritime Court in U.K. 1942-46; UN War Crimes Comm. 1943-46, UN Legal Dept. 1946-74; Under-Sec., Legal Counsel, Office of Legal Affairs 1955-74; Acting Commr. for South West Africa 1966-69; Under-Sec.-Gen. with responsibility for Gen. Assembly Affairs 1969-71; Under-Sec.-Gen., Special Rep. of Sec.-Gen. to UN Conf. on the Law of the Sea 1973-74; mem. Parl. 1974-77; Under-Sec. of State for Foreign Affairs 1975-77; Amb. at Large 1978-; Knight Commdr. Order of Phoenix, Commdr. Order of George I (Greece). *Leisure interests:* golf, swimming. *Address:* 34 Anagnostopoulou Street, Athens, Greece. *Telephone:* 36-31-160.

STAŻEWSKI, Henryk; Polish painter and graphic artist; b. 9 Jan. 1894, Warsaw; ed. Warsaw Acad. of Fine Arts; mem. Block Group 1924-26, Praesens Group 1926-30, Cercle et Carré Int. Group 1929-30, "a.r." Group 1932-39, Abstraction-Création Int. Group 1933-39, Union of Polish Painters 1935-39, European Artistic Vanguard -1939; one-man exhbns.: Galleria dell'Incontro, Rome 1956, Kordegarda, Warsaw 1959, Musée d'Art et d'Histoire, Geneva, Grabowsy Gallery, London 1963, Kazimir Gallery, Chicago 1969, Nat. Gallery, Prague 1970, Zachęta, Warsaw 1978; Collections: Museum of Modern Art, New York, Tate Gallery, London, Univ. Art Museum, Berkeley, Galérie Denise René, Paris, Museum der Stadt, St. Gallen, Muzeum Sztuki Nowoczesnej, Lódz, Nat. Galleries of Warsaw, Cracow, Poznań; State Prize (1st Class) 1965, Gottfried-von-Herder Prize 1972, Minister of Culture and Art Prize (1st Class) 1977; Minister of Foreign Affairs Prize 1978, Silver Medal VII Festival of Fine Arts, Warsaw 1978; Gold Cross of Merit 1955, Officer's Cross of Order of Polonia Restituta 1965; works include painting, relief, spatial compositions, geometrical abstraction, book typography, interior architecture, scenography. *Publications:* Co-Editor: Blok, Praesens, L'Art Contemporain, Cercle et

Carré, Europa, Pion, Nike, Wiadomości Literackie, Grafika, Kuźnica. *Address:* Ul. Świerczewskiego 64 m. 118, 00-240 Warsaw, Poland.

STEAD, Christina Ellen; Australian writer; b. 17 July 1902, Banksia, Rockdale, N.S.W.; d. of David George Stead and Ellen Butters; m. William James Blake 1952; ed. Sydney Girls' High School, Sydney Teachers' Coll., Business Coll.; began career as schoolteacher; Demonstrator in Psychology, Sydney Teachers' Coll.; went to London 1928; lived for some years in Paris, working as a clerk for banking house and travelling in Europe; resided in U.S.A. 1937-45, subsequently in England, Netherlands, and Switzerland, returned to Australia 1974; Fellow in the Creative Arts, Australian Nat. Univ. 1969-; Patrick White Award (first recipient) 1974. *Publications fiction:* The Salzburg Tales 1934, Seven Poor Men of Sydney 1934, The Beauties and Furies 1936, House of All Nations 1938, The Man Who Loved Children 1940, For Love Alone 1944, Letty Fox—Her Luck 1946, A Little Tea, A Little Chat 1948, The People with the Dogs 1952, Cotter's England 1966, Little Hotel 1974, Puzzleheaded Girl 1968, Miss Herbert 1976. *Address:* Bruce Hall, Australian National University, P.O. Box 827, Canberra, A.C.T. 2601; 68 Bent Street, Lindfield, N.S.W. 2070, Australia.

STEARNS, Russell Bangs; American industrialist; b. 9 Feb. 1894, Chicago, Ill.; s. of Robert Bangs and Emma (Owens) Stearns; m. 1st Edna Dilley 1918 (died 1950), 2nd Mrs. Andrée Beauchamp Ryan 1958; ed. Univ. of Michigan; with North America Co. 1916-17, with Arthur Perry & Co. 1920, Partner 1926-30, Pres. 1930-38; Dir. of numerous other companies; Vice-Chair. of Corpn. and Board of Dirs. and mem. of Exec. Cttee., Northeastern Univ., Civic Educ. Foundation, Tufts Univ., Boston Hospital for Women, Museum of Science, Univ. of Michigan; mem. of Presidents' Club, Boston Opera Asscn., Trustee and mem. of Exec. Cttee. Museum of Science, etc. *Address:* 24 Federal Street, Boston, Mass. 02110 (Office); 50 Haven Street, Dedham, Mass. 02026, U.S.A. (Home). *Telephone:* 617-542-3435 (Office); 617-326-1329 (Home).

STEBBINS, George Ledyard, PH.D.; American professor of genetics; b. 6 Jan. 1906, Lawrence, N.Y.; s. of George Ledyard and Edith Candler; m. 1st Margaret Chamberlaine 1931 (divorced 1958), 2nd Barbara Jean Brumley 1958; two s. (one deceased), one d.; ed. Cate School, Carpinteria, Calif., and Harvard Univ.; Instructor in Biology, Colgate Univ. 1931-35; Junior Geneticist, Univ. of Calif., Berkeley 1935-39, Asst. Prof. 1939-40, Assoc. Prof. 1940-47, Prof. of Genetics 1947-73, Prof. Emer. 1973-, moved from Berkeley to Univ. of Calif., Davis 1950; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Linnean Soc. London, Royal Swedish Acad. of Sciences, Deutsche Akademie Leopoldina; Jesup Lecturer, Columbia Univ. 1946; Prather Lecturer, Harvard Univ. 1958; Hon. D.Sc. (Paris) 1952; Verrill Medal, Yale Univ. 1968, Gold Medal, Linnean Soc., London 1973. *Publications:* The Human Organism and the World of Life (with C. W. Young) 1938, Variation and Evolution in Plants 1950, Processes of Organic Evolution 1966, The Basis of Progressive Evolution 1969, Chromosomal Evolution in Higher Plants 1971, Flowering Plants: Evolution above the Species Level 1974, Evolution (with T. Dobzhansky, F. Ayala, and J. Valentine) 1977. *Leisure interests:* hiking, mountain climbing, plant collecting, music as listener. *Address:* Department of Genetics, University of California, Davis, Calif. 95616 (Office); P.O. Box 84, Davis, Calif. 95616, U.S.A. (Home). *Telephone:* (916) 752-0200.

STEEL, Sir David (Edward Charles), Kt., D.S.O., M.C., T.D.; British company director; b. 29 Nov. 1916; m. Ann Price 1956; one s. two d.; ed. Rugby School and Univ. Coll., Oxford; Officer, Q.R. Lancers, serving in France, the Middle East, N. Africa and Italy 1940-45; admitted as Solicitor 1948; worked for Linklaters and Paines 1948-50; in Legal Dept., British Petroleum Co. Ltd. 1950-56; Pres. British Petroleum (N. America) Ltd. 1959-61, Regional Co-ordinator, Western Hemisphere, B.P. Co. Ltd. 1961-62; Man. Dir. Kuwait Oil Co. Ltd. 1962-65, Dir. 1965-; a Man. Dir. British Petroleum Co. Ltd. 1965-72, Deputy Chair. 1972-75, Chair. 1975-; Chair. B.P. Oil 1976-77; Dir. Bank of England 1978-. *Address:* The British Petroleum Company Ltd., Britannic House, Moor Lane, London, EC2Y 9BU; 18 Princes Gate, London, S.W.7, England. *Telephone:* 01-920 8000; 01-589 2406 (Home).

STEEL, Rt. Hon. David Martin Scott, P.C., M.A., LL.B.; British (Scottish) politician, journalist and broadcaster; b. 31 March 1939, Kirkcaldy; s. of Very Rev. Dr. David Steel; m. Judith Mary MacGregor 1962; two s. one d.; ed. Prince of Wales School, Nairobi, Kenya, George Watson's Coll. and Edinburgh Univ.; Pres. Edinburgh Univ. Liberals 1959; mem. Students' Rep. Council 1960; visited U.S.S.R. 1961; Asst. Sec., Scottish Liberal Party 1962-64; M.P. for Roxburgh, Selkirk and Peebles March 1965-; Scottish Liberal Whip 1967-70, Liberal Chief Whip 1970-75; Leader of Liberal Party July 1976-; mem. Parl. del to UN Gen. Assembly 1967; fmr. Liberal spokesman on Commonwealth Affairs; Sponsor, Private Member's Bill to reform law on abortion 1966-67; Pres. Anti-Apartheid Movement of U.K. 1966-69; Chair. Shelter, Scotland 1969-; BBC TV Interviewer in Scotland 1964-65; Presenter of weekly religious programme for Scottish TV 1966-67, for Granada 1969; Foundation Oration, Univ. Coll., London 1970. *Publications:* Boost for the Borders 1964, Out of Control 1968, No Entry 1969, The Liberal Way Forward 1975, A New Political Agenda 1976, Militant for the Reasonable Man 1977, A New Magistry for a New Parliament 1978. *Leisure interests:* angling, riding, motoring. *Address:* House of Commons, London, SW1A 0AA; Cherry Dene, Ettrick Bridge, Selkirkshire, Scotland (Home).

STEEL, Sir (Joseph) Lincoln (Spedding), Kt., F.R.S.A., M.A., J.P.; British business executive; b. 24 March 1900, Liscard; s. of Joseph Steel and Esther Spedding; m. 1st Cynthia Smith 1928 (died 1929), one s.; m. 2nd Barbara Goldschmidt 1938, one s.; ed. Christ's Hospital and St. John's Coll., Oxford; served Royal Engineers (Field Co.) 1818-19; joined Brunner Mond and Co. Ltd. 1922; Del. Dir. I.C.I. (Alkali) Ltd. 1932, Man. Dir. Alkali Div. of I.C.I. Ltd. 1942, Chair. Alkali Div. of I.C.I. Ltd. 1943; Dir. Imperial Chemical Industries Ltd. (I.C.I.) 1945-60; Deputy Chair. Triplex Holdings Ltd. 1960-61, Chair. 1961-66; Chair. British Nat. Cttee., Int. Chamber of Commerce 1951-63, Pres. Int. Chamber of Commerce 1963-65; mem. Consultative Cttee. EFTA 1960-69; Dir. Charterhouse Investment Trust Ltd. 1960-74; Chair. Overseas Cttee. Fed. of British Industries 1950-65; Hon. Pres. Int. Chamber of Commerce; mem. Central Council European League for Econ. Co-operation 1966-69. *Leisure interests:* gardening, walking, travel. *Address:* The Warren, Chesham Bois, Amersham, Bucks., England. *Telephone:* Amersham 6406.

STEELE, Tommy O.B.E.; British actor and singer; b. (as Thomas Hicks) 17 Dec. 1936, Bermondsey, London; s. of Thomas Walter Hicks and Elizabeth Ellen Bennett; m. Ann Donoughue 1960; one d.; ed. Bacon's School for Boys, Bermondsey; entered merchant navy 1952; first stage appearance Empire Theatre, Sunderland 1956, London debut 1957; roles include Buttons (Cinderella) London 1958/59, Tony Lumpkin (She Stoops to Conquer) 1960, Arthur Kipps (Half A Sixpence) 1963/64, New York 1965/66, Truffaldino (The Servant of Two Masters) 1968, title role in Hans Andersen, London 1974/75, 1977/78; film debut in Kill Me Tomorrow 1956, films include The Tommy Steele Story, The Duke Wore Jeans, Tommy the Toreador 1959, Light Up the Sky 1963, Its All Happening 1966, The Happiest Millionaire 1967, Half A Sixpence, Finian's Rainbow 1968, Where's Jack 1971; TV début in Off the Record 1956, cabaret début, Caesar's Palace, Las Vegas 1974; composed and recorded musical autobiography My Life, My Song 1974. *Publications:* Hans Andersen (co-author, stage version), Quincy's Quest. *Leisure interests:* squash, painting. *Address:* c/o Talent Artists Ltd., 13 Bruton Street, London, W1X 8HY, England. *Telephone:* 01-493 0343.

STEEN, Reiulf; Norwegian politician; b. 16 Aug. 1933, Saetre, Hurum; s. of Nils and Astrid Steen; factory worker 1951; joined Fremtiden as journalist 1955; Sec. AUF (Labour Party Junior Org.) 1958, Chair. 1961-64; Sec. Labour Party Parl. Group 1964, Vice-Chair. Labour Party 1965-75, Chair. April 1975-; Deputy mem. Storting 1961-65, mem. 1977-; Minister of Communications 1971-72; Chair. Foreign Relations Cttee., Stortinget 1977-. *Leisure interests:* literature, politics. *Address:* Arbeiderpartiet, Youngstorget 2, Oslo 1, 330180; Stortinget, Oslo 1, 413810, Norway.

STEENBECK, Max, DR. PHIL.; German scientist; b. 21 March 1904, Kiel; ed. Realgymnasium, Kiel and Univ. of Kiel; Siemens-Schuckert, Berlin 1928-45, in U.S.S.R. 1945-56; returned to Jena 1956; Dir. of Inst. for Magneto-Hydrodynamics, Jena 1956-59, Chief of Atomic Reactor building 1957-63; Pres. of Research Council of G.D.R. 1965-; Pres. G.D.R. Cttee. for European Security and Co-operation 1970-; Prof. Jena Univ.; mem. German Acad. of Sciences, Berlin, (Vice-Pres. 1962-64), U.S.S.R. Acad. of Sciences 1966-; Hon. Dr. rer. nat.; Krupp-Preis für Energie-forschung 1977; Vaterländer Vierdienstorden in Silver, National Prize (twice), and other decorations. *Address:* Karl-Liebknecht Strasse 9, 102 Berlin, German Democratic Republic.

STEFANOPOULOS, Constantine; Greek lawyer; b. 1926, Patras; s. of Demetrius and Vrisiis Stefanopoulos; m. Eugenia El. Stounopoulou 1959; two s. one d.; private law practice; mem. Parl. (Nat. Radical Union) for Achaia 1964; Under-Sec. of Commerce July-Oct. 1974; Minister of the Interior 1974-77, of Social Services 1977-; in Prime Minister's Office Nov. 1977-. *Address:* Office of the Prime Minister, Athens, Greece.

STEFAŃSKI, Piotr, M.A.; Polish politician and journalist; b. 6 April 1931, Warsaw; s. of Henryk and Julianna Stefański; m. Alina Stefańska 1950; two c.; ed. sociological studies; fmr. active mem. of Youth Orgs.; mem. Democratic Party (SD) 1948-; Editor Tygodnik Demokratyczny, SD weekly newspaper 1956-59; Chair. Press, Information and Educ. Team of SD Cen. Cttee. 1962-69, Sec. SD Cen. Cttee 1969-, mem. Presidium and Deputy Chair. SD Cen. Cttee. Feb. 1976-; Deputy to Seym 1972-, Chair. SD Seym Deputies' Club and Vice-Marshal of Seym March 1976-; mem. Presidium and Sec. All-Poland Cttee. of Nat. Unity Front (OK FJN); Deputy Chair. of Gen. Council, Polish-Soviet Friendship Soc.; Pres. Soc. of Friends of Iberian Culture; mem. Presidium, Polish Cttee. for Security and Co-operation in Europe; Knight's Cross and Commdr.'s Cross, Order of Polonia Restituta, Order of Banner of Labour (2nd Class), Gold Cross of Merit. *Address:* Asfaltowa 3-4, 02-570 Warsaw, Poland. *Telephone:* 49-11-21.

STEFFE, Horst-Otto, D.ECON.; German economist; b. 27 Aug. 1919, Berlin; m. Margareta Spangl; three c.; ed. Leipzig and Vienna Univs.; mil. service 1937-45; Economist, Austrian Inst. for Econ. Research 1948; Asst., then Deputy Section Head, Fed. Ministry of Econ. Affairs 1952; Man. Dir. Gemeinschaft zum Schutz der deutschen Sparer 1958; Dir. Nat. Econ. and Econ. Trends, EEC Comm., Brussels, Chair. EEC Cttee. for Business Cycle Analysis and of Working Parties on Econ. Budgets, Cyclical Statistics and Econ. Tendency Surveys 1960; mem. Short Term Econ. Policy and Budgetary Policy Cttees.; alternative mem. Monetary Cttee.; Man. Econ. and Research Dept., European Investment Bank (EIB) 1967, Vice-Pres., Vice Chair. of Board of Dirs. *Publications:* numerous works on economics, investment and related subjects. *Address:* European Investment Bank, 2 place de Metz, Luxembourg. *Telephone:* 43-50-11 (Office).

STEGER, Otfried; German civil engineer and politician; b. 25 Sept. 1926, Wechselberg, Saxony. Gen. Dir. Electrical Enterprise 1959-63; Head of Elec. Engineering Industry in Econ. Council 1963-65; Cand. mem., Cen. Cttee. Sozialistische Einheitspartei Deutschlands (SED 1967-71, mem. 1971-); Minister for Electrical Engineering and Electronics 1965-; Vaterländischer Verdienstorden in Gold, and other decorations. *Address:* Ministerrat, Berlin, German Democratic Republic.

STEIGER, Rod; American actor; b. 14 April 1925; m. 1st Claire Bloom (*q.v.*) 1959 (divorced), one d.; m. 2nd Sherry Nelson 1973; ed. public schools; Berlin Film Festival Award 1964; British Film Acad. Award; Acad. Award (Oscar) Best Actor 1967. *Stage appearances include* Night Music 1951, An Enemy of the People 1953, Rashomon 1959; *numerous film appearances include* On the Waterfront 1953, Big Knife 1955, Oklahoma 1956, Jubal 1957, Across the Bridge 1958, Al Capone 1959, Seven Thieves 1959, The Mark 1960, The World in my Pocket 1960, The Tiger Among Us 1961, The Longest Day 1961, Convicts 4 1961, The Time of Indifference 1962, Hands on the City 1963, The Pawnbroker 1964, The Loved One 1964, Doctor Zhivago 1966, In the Heat of the Night 1967, No Way to Treat a Lady 1968, The Illustrated Man 1968, The Sergeant 1968, Three into Two Won't Go 1969, Waterloo 1970, The Lolly Madonna War, Lucky Luciano 1973, The Heroes 1974, Les Innocents aux Mains Sales 1975, Hennessy 1975, W.C. Fields and Me 1976, Jesus of Nazareth (TV) 1977, F.I.S.T. 1978. *Address:* c/o International Creative Management, 8899 Beverly Boulevard, Los Angeles, Calif. 90048, U.S.A.

STEIN, Herbert, PH.D.; American government official; b. 27 Aug. 1916, Detroit; m. Mildred Fishman 1937; ed. Williams Coll. and Univ. of Chicago; Economist, U.S. Govt. 1938-45; Economist, Cttee. for Econ. Devt. 1945-48, Assoc. Dir. of Research 1948-56, Dir. of Research 1956-66, Vice-Pres. and Chief Economist 1966-67; Senior Fellow, Brookings Inst. 1967-69; mem. President's Council of Econ. Advisers 1969-, Chair. 1972-74; A. Willis Robertson Prof. of Econs., Univ. of Va. 1971-; Sr. Fellow American Enterprise Inst. 1977-; mem. Board of Contribution Wall Street Journal 1974-; Columnist Scripps-Howard Newspapers 1974-. *Publications:* The Fiscal Revolution in America 1969, On the Brink (with Benjamin Stein) 1977. *Address:* Department of Economics, University of Virginia, Charlottesville, Va. 22903, U.S.A.

STEIN, William H(oward), B.S., PH.D.; American biochemist; b. 25 June 1911, New York City; s. of Fred M. and Beatrice B(org) Stein; m. Phoebe Hockstader 1936; three s.; ed. Lincoln School of Teachers Coll., New York City, Phillips Exeter Acad., Exeter, N.H., Harvard Coll. and Coll. of Physicians and Surgeons, Columbia Univ.; Asst. in Biochem., Rockefeller Inst. (now Rockefeller Univ.) 1939-43, Assoc. 1943-49, Assoc. mem. 1949-52, mem. 1952, Prof. 1955-; Visiting Prof., Univ. of Chicago 1960, Harvard Univ. 1964; Chair. Editorial Cttee. American Soc. of Biological Chemists 1958-61, U.S. Nat. Cttee. for Int. Union of Biochemists 1965-68; mem. Editorial Board Journal of Biological Chemistry 1961-64, Assoc. Editor 1964-68, Editor 1968-71; Councillor, Nat. Inst. of Neurological Diseases and Blindness, Nat. Insts. of Health 1961-66; Trustee, Montefiore Hosp., N.Y. 1947-74; Harvey Lecturer 1957, Shaffer Lecturer 1965; American-Swiss Foundation Fellow 1956; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; American Chemical Soc. Award in Chromatography and Electrophoresis (with Stanford Moore) 1964; Nobel Prize for Chem. with C. B. Anfinsen (*q.v.*) and S. Moore (*q.v.*) 1972; Richards Medal of American Chem. Soc., Kaj Linderstrøm-Lang Award, Copenhagen (both with Stanford Moore) 1972; D.Sc. h.c., (Columbia Univ., Albert Einstein Coll. of Medicine of Yeshiva Univ., New York) 1973; Award of Excellence Medal, Columbia Univ. Graduate Faculty and Alumni Assn. 1973. *Publications:* Numerous articles in various biochemical and chemical journals 1939-. *Leisure interests:* travel, music. *Address:* Rockefeller University, 66th and York, New York, N.Y. 10021; 530 East 72nd Street, New York, N.Y.10021, U.S.A. (Home).

STEINBERG, Saul; American (b. Romanian) artist and architect; b. 15 June 1914; ed. Milan Polytechnic School; Cartoonist 1936-39; practising architect 1939-41; moved to U.S. 1942; illustrator for the New Yorker 1942-; represented in Museum of Modern Art N.Y. *Publications:* All in Line 1945, The Art of Living 1949, The Passport 1954, The Labyrinth 1960, The Inspector 1973. *Address:* 3 Washington Square, Village, New York, N.Y. 10012, U.S.A.

STEINBERGER, Jack, PH.D.; American physicist; b. 25 May 1921, Germany; s. of Ludwig Steinberger and Bertha (May) Steinberger; m. 1st Joan Beauregard 1943, 2nd Cynthia Eve Alff 1961; three s. one d.; ed. Univ. of Chicago; Visiting mem. Inst. of Advanced Study, Princeton 1948-49; Research Asst., Univ. of Calif. (Berkeley) 1949-50; Prof. Columbia Univ., New York 1950-71, Higgins Prof. 1967-71; Staff mem. Centre Européen pour la Recherche Nucléaire 1968-; mem. Nat. Acad. of Sciences 1967-, Heidelberg Acad. of Sciences 1967-, American Acad. of Arts and Sciences 1969-; Hon. Prof., Heidelberg 1968. *Publications:* Muon Decay 1949, Pi Zero Meson 1950, Spin of Pion 1951, Parity of Pion 1954, 1959, Z° Hyperon 1957, Properties of "Strange Particles" 1957-64, Two Neutrinos 1962, CP Violating Effects in K° Decay 1966-74, High Energy Neutrino Physics 1975. *Leisure interest:* mountaineering. *Address:* CERN, Geneva 23, Switzerland; and Les Maladières, Gex, France.

STEINER, George, D.PHIL., F.R.S.L.; American writer and scholar; b. 23 April 1929, Paris, France; s. of Dr. and Mrs. F. G. Steiner; m. Zara Shakow 1955; one s. one d.; ed. Univs. of Paris and Chicago, Harvard Univ. and Balliol Coll., Oxford; Editorial Staff The Economist, London 1952-56; Fellow, Inst. for Advanced Study, Princeton 1956-58; Gauss Lecturer, Princeton Univ. 1959-60; Fellow and Dir. of English Studies, Churchill Coll., Cambridge 1961-69, Extraordinary Fellow 1969-; Albert Schweitzer Visiting Prof., New York Univ. 1966-67; Visiting Prof. Yale Univ. 1970-71; Prof. of English and Comparative Lit., Univ. of Geneva 1974-; delivered Massey Lectures 1974, Ransom Memorial Lectures 1976; Pres. The English Assn. 1975-76; Hon. D.Litt. (Univ. of East Anglia) 1976; O. Henry Award 1958, Jewish Chronical Book Award 1968, Zabel Prize of Nat. Inst. of Arts and Letters 1970, Le Prix du Souvenir 1974. *Publications:* Tolstoy or Dostoevsky 1959, The Death of Tragedy 1961, Anno Domini: Three Stories 1964, Language and Silence 1967, Extraterritorial 1971, In Bluebeard's Castle 1971, The Sporting Scene: White Knights in Reykjavík 1973, Fields of Force 1974, A Nostalgia for the Absolute (Massey Lectures) 1974, After Babel 1975, Heidegger 1978, On Difficulty and Other Essays 1978; Editor Penguin Book of Modern Verse Translation 1967. *Leisure interests:* chess, music, mountain walking. *Address:* 32 Barrow Road, Cambridge, England; Harvard Club, New York, N.Y., U.S.A.

STELLA-RICHTER, Mario, D.IUR.; Italian judge; b. 11 Dec. 1906, Rome; s. of Vitaliano Stella-Richter and Olimpia Falasconi; m. Laura Tonni-Bazza 1934; two s.; ed. Univ. of Rome; Judge of First Instance, Pretura-Court, Rome 1929-34; Asst. Judge, Tribunal of Brescia 1934-36; Sec. Civil Code Reform Comm., Ministry of Justice 1936-40; Asst. Judge, Tribunal of Rome 1940-49; Justice of Appeal, Acting Justice of Supreme Court of Cassation 1949-54; Asst. Justice, Supreme Court of Cassation 1954-63, Presiding Justice 1963-72; Pres. Superior Tribunal of Public Waters 1972-73; Procurator-Gen., Supreme Court of Cassation 1973-74, Chief Justice 1974-; Chair. Assn. for Cultural Exchange between Italian and German Jurists 1974-; Medal, Educ. Surveillé, and Medal, Admin. Pénitentiaire, French Dept. of Justice 1974. *Publications:* Rassegna di Giurisprudenza sul Codice Civile (Editor) 1969, Rassegna di Giurisprudenza sul Codice di Procedura Civile (Editor) 1973. *Leisure interest:* history of art. *Address:* Palazzo di Giustizia, Piazza Cavour, 00100 Rome, Italy.

STELLING-MICHAUD, Sven, DR. ÈS L.; Swiss historian; b. 15 Aug. 1905, Copenhagen; s. of Erwin Stelling and Jeanne Michaud; two s.; ed. Univs. of Zürich and Lausanne, Sorbonne and Ecole des Chartes, Paris; archaeological expeditions in Persia 1929, Turkey 1932; Int. Affairs Editor for Journal de Genève 1942-47; Prof. of Modern History and History of Political Theories, Univ. of Geneva 1943-58, Principal Interpreters' School 1951-, Prof. of Modern History 1958-, Prof. of Philosophy of History 1962-; Dr. h.c. Glasgow Univ. 1977. *Publications include:* Visage de la Perse 1930, St. Saphorin et la politique étrangère de la Suisse pendant la guerre de succession d'Espagne 1935, Unbekannte schweizer Landschaften aus dem 17. Jahrhundert 1937, Etudes d'histoire diplomatique 1943, Les partis politiques et la guerre 1945, L'Université de Bologne et la Suisse aux XIII° et XIV° siècles, 2 vols. 1955, 1960, Livre du Recteur de l'Académie de Genève 1559-1878 (editor) Vol. I 1959, Vol. II 1966, Vol. III 1972, Vol. IV 1975, Journal politique du Comte Ciano 1939-1943 (editor) 2 vols. 1946, Jacob Burckhardt Considérations sur l'histoire universelle (translation) 1965, 2nd edn. 1973, Matériaux pour une histoire des sciences sociales à Genève (with G. Busino) 1965, Autour d'Alexandre Herzen (editor) 1973, Pour une histoire qualitative: études offertes à S.-St.M. 1975, Les peintres—voyageurs hollandais en Suisse au XVII Siècle 1978. *Address:* 14 ave. de Thônex, Chêne-Bourg, Geneva, Switzerland. *Telephone:* 022-480500.

STELTZER, Hans-Georg; German diplomatist (retd.); b. 30 April 1913, Braunschweig; ed. Realgymnasium, Rendsburg and Plön, Schleswig-Holstein, Univ. of Hamburg; mil. service 1934-45; successively with Office of Cultural Affairs, Kiel 1946, Bi-Zonal Admin. for Econ. Affairs 1948-49, Ministry of Econ. Affairs 1949-50; joined diplomatic service 1950-, Vice-Consul 1951; Pretoria 1951-54, Second Sec. 1953; Foreign Office, Bonn 1954-57, First Sec. 1955; New Delhi 1957-60; Foreign Office 1960-63, Counsellor 1961; Amb. to Ghana 1964-68; Head of Foreign Relations Dept., Fed. Press and Information Office, Bonn 1968-69; Head of Cultural Relations Dept., Foreign Office 1970-72; Amb. to Egypt 1972-78; German Gold Cross, Fed. Cross of Merit (1st Class), Grand Cordon Egyptian Order of Merit. *Publications:* on African affairs and int. cultural co-operation. *Address:* Hubertusstrasse 5, 5330 Königswinter, Federal Republic of Germany.

STENNIS, John Cornelius, B.S., LL.B.; American politician; b. 3 Aug. 1901, Kemper Co., Miss.; s. of Hampton Howell and Cornelia Adams Stennis; m. Coy H. Stennis 1929; one s. one d.; ed. Mississippi State Coll. and Univ. of Virginia Law School; mem. Miss. House of Reps. from Kemper County 1928-32; Dist. Prosecuting Attorney, Sixteenth Judicial Dist. 1931 and 1935; appt. Circuit Judge, Sixteenth Judicial District 1937 and elected 1938, 1946; U.S. Senator from Mississippi 1947-; Democrat. *Leisure interest:* hunting, fishing, reading, sporting events. *Address:* Senate Office Building, Washington, D.C., U.S.A.

STENSIÖ, Erik Helge Oswald; Swedish university professor; b. 2 Oct. 1891; ed. Univ. of Uppsala; Prof. of Palaeozoology at the Swedish Museum of Natural History, Stockholm 1923-59, Emer. 1959-; Foreign mem. of Royal Soc., London; Hon. mem. Royal Soc. of Edinburgh; Hon. mem. Acad. Sciences, New York; Foreign mem. U.S.S.R. Acad. Sciences, etc.; Dr. h.c. Paris, Copenhagen, Oslo and Tübingen; Wollaston Medal, Gold Medal of Linnean Soc., London, Daniel Elliott Giraud Medal, Washington; Darwin-Wallace Medal, Linnean Soc., Gold Medal, Royal Acad. of Science, Stockholm, Dumont Medal, Belgian Geological Soc. *Address:* Swedish Museum of Natural History, Stockholm 50, Sweden. *Telephone:* 150240.

STEPAKOV, Vladimir Ilyich, M.SC.; Soviet journalist and diplomatist; b. 1912; ed. Lenin Pedagogical Inst., Moscow and Acad. of Social Sciences of CPSU Central Cttee.; fmr. metal craftsman and wood cutter; Soviet Army 1935-37; mem. CPSU 1937-; staff of People's Commissariat for Means of Communication 1937-40; in machine-building factory 1941-45; party and political work, Moscow 1944-59; Head of Dept., Cen. Cttee. of CPSU 1959-61; Head of Ideological Dept., Communist Party of CPSU 1961-64; Chief Editor Izvestia 1964-65; Head of Propaganda and Agitation Dept. of Cen. Cttee. of CPSU 1965-70; mem. CPSU Cen. Auditing Comm 1961-66; mem. Cen. Cttee. of CPSU 1966-; Deputy to U.S.S.R. Supreme Soviet 1962-70; Amb. to Yugoslavia 1971-78. *Address:* U.S.S.R. Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya Ploshchad, Moscow, U.S.S.R.

STEPHANI, Christakis, B.COMM., F.C.A.; Cypriot banker; b. 28 Sept. 1926, Cyprus; m. Vera Halliday 1951; one s. two d.; ed. London School of Econs. and Political Science; Accountant-General of the Repub. of Cyprus 1960-65; Gov. Cen. Bank of Cyprus 1965-. *Address:* Central Bank of Cyprus, P.O. Box 1087, Nicosia, Cyprus.

STEPHANOPOULOS, Constantine (See Stefanopoulos).

STEPHANOPOULOS, Stephanos; Greek lawyer and politician; b. 1898; ed. Univs. of Athens and Paris; Deputy for Elis 1930; Under-Sec. in Ministry of Economy and Labour in 1st Populist Govt., Minister of Nat. Econ. in 2nd; resistance in Greece during 1941-44 occupation; Minister of Transport in 1st Nat. Govt. 1944, of Economic Co-ordination in Populist Govt. 1946; left Populist Party 1950, formed independent group which joined Kanellopoulos' Unionist-Populist Party, formed and disbanded (on Papagos' election) 1951; joined Greek Rally Party 1951; Minister of Foreign Affairs 1952-55; Second Deputy Prime Minister Dec. 1963-Feb. 1964; Deputy Prime Minister Feb. 1964-65, also Minister of Co-ordination June 1964-65; Prime Minister Sept. 1965-Dec. 1966; Leader Social Populist Party 1959 (later mem. Central Union Party), founded Liberal Democratic Centre Party Dec. 1965; founded National Party 1977. *Publications include:* Social Insurance 1932, Economic and Social Studies 1935, Philosophy and Social Systems 1936. *Address:* Athens, Greece.

STEPHENS, Olin James II; American naval architect and yacht designer; b. 13 April 1908, New York City; s. of Roderick Stephens and Marguerite Dulon; m. Florence Reynolds 1930; two s.; ed. Massachusetts Inst. of Tech.; Partner, Sparkman & Stephens 1928; Chief Designer, Vice-Pres. and Dir., Sparkman & Stephens Inc. 1929-64, Chief Designer, Pres. and Dir. 1964-, Chair and Dir. Jan. 1979-; Hon. M.S. (Stevens Inst. of Tech.) 1945; Hon. M.A. (Brown Univ.) 1959; some yachts designed: Dorade 1930, Stormy Weather 1934, (with W. Starling Burgess) Ranger 1937, Vim, Goose, Bolero 1938, Finisterre 1954, Columbia 1958, Constellation 1964, Intrepid 1967, Morning Cloud 1969, 1971, 1973, 1975, Courageous 1974. *Address:* Sparkman and Stephens Inc., 79 Madison Avenue, New York, N.Y. 10016; P.O. Box 346, Putney, Vt., 05346, U.S.A. *Telephone:* (212) 689-3880 (Office); (802) 387-4465 (Home).

STEPHENS, Robert; British actor; b. 14 July 1931; m. Maggie Smith (*q.v.*) 1967 (dissolved 1975); two s.; mem. English Stage Co., Royal Court 1956-62; Nat. Theatre Co. 1963, 1978-; *Stage appearances include* Hay Fever 1964, The Royal Hunt of the Sun 1964, Much Ado About Nothing 1965, Lindsay in Armstrongs' Last Goodnight 1965, Tom Wrench (Trelawney of the Well's) 1965, Leonido (A Bond Honoured) 1966, Harold Goringe (Black Comedy) 1966, Kurt (The Dance of Death) 1967, Vershinin (Three Sisters) 1967, Jacques (As You Like It) 1967, Tartuffe (Tartuffe) 1967, Frederick (Home and Beauty) 1968, Beaux Stratagem 1970, Design for Living 1970, Private Lives 1972, The Seagull, Ghosts, Hamlet 1974, Murderer, Zoo Story, Sherlock Holmes 1975, Othello, Private Lives 1976, The Cherry Orchard 1978, Brand 1978, The Double Dealer 1978, Has "Washington" Legs 1978; directed one of a triple bill A Most Unwarrantable Intrusion 1968; appeared in and co-directed Macrune's Guevara 1969; directed and appeared in Apropos the Falling Sleet; *Films:* The Prime of Miss Jean Brodie 1969, The Private Life of Sherlock Holmes 1970, The Asphyx 1972, Travels with my Aunt 1972, Luther 1972, The Duellists 1977, La Nuit Tous Les Chats Sont Gris 1977, The Holocaust 1978, The Shout 1978; numerous TV appearances. *Address:* c/o Film Rights Ltd., 113 Wardour Street, London, W.1, England. *Telephone:* 01-437 7151.

STEPHENS, Robert Porritt, B.A., B.A.OXON.; Swaziland politician; b. 20 Feb. 1905, Laingsburg, South Africa; s. of Dr. H. W. Stephens and Mabel Browne Stephens; m. Coral Maria Barnes 1932; one s. two d.; ed. Diocesan Coll., Rondebosch, Cape Town, Univ. of Cape Town and Oxford Univ.; Forester, Dept. of Forestry, S. Africa 1929-46; served with S. African Engineers, Kenya and Western Desert 1939-43; Man. Dir. and Chair. Peak Timbers Ltd., Swaziland 1947-68; mem. European Advisory Council 1958-63; mem. Legislative Council 1963-67; mem. House of Assembly 1967; Minister of Finance 1972-78; Rhodes Scholar 1923. *Publications:* several articles on forestry in technical journals. *Leisure interests:* big game fishing, shooting (Bisley .303), cattle farming. *Address:* P.O. Box 3, Piggs Peak, Swaziland. *Telephone:* Piggs Peak 9.

STEPHENSON, Gordon, C.B.E., M.C.P., B.ARCH., L.F.R.A.I.A., L.F.R.A.P.I., F.R.I.B.A., F.I.L.A., F.R.T.P.I.; British architect and town planner; b. 6 June 1908, Liverpool; s. of Francis Edwin and Eva Eliza Stephenson; m. Flora Bartlett Crockett 1938; three d.; ed. Liverpool Inst., Univs. of Liverpool and Paris, Massachusetts Inst. of Technology; with Le Corbusier and Pierre Jeanneret 1930-32; Lecturer, Univ. of Liverpool 1932-36; Commonwealth Fellow, Mass. Inst. of Technology 1936-38; Master, Architectural Assn. School of Architecture 1939-40; Div. Architect, Royal Ordinance Factory and War Hostels 1940-42; Sr. Research Officer and Chief Planning Officer, Ministry of Town and Country Planning 1942-47; Prof. of Civic Design and Editor Town Planning Review, Univ. of Liverpool 1948-53; Consultant to Govt. of W. Australia, City of Perth and Univ. of W. Australia 1954-55; consultant to cities of Toronto, Ottawa

and Kingston, Ontario and Halifax, Nova Scotia 1955-60; Prof. of Town and Regional Planning, Univ. of Toronto 1955-60; Consultant Architect and Prof. of Architecture, Univ. of W. Australia 1960-72, Emer. Prof. 1972-; partner in Ferguson and Stephenson, Architects, Planners and Landscape Architects, Perth 1972-; mem. Nat. Capital Planning Cttee., Canberra 1967-73; Hon. LL.D. (Univ. of W. Australia). *Publications:* (with Flora C. Stephenson) Community Centres 1940, (with J. A. Hepburn) Plan for the Metropolitan Region of Perth and Fremantle 1955, A Redevelopment Study of Halifax, Nova Scotia 1957, (with G. G. Muirhead) A Planning Study of Kingston, Ontario 1959, (with R. J. Ferguson) Physical Planning Report, Murdoch University 1973, The Design of Central Perth 1975, Joondalup Regional Centre 1977. *Address:* 22 Princess Road, Claremont, Western Australia 6010. *Telephone:* 09-384-1923.

STERKY, Hakan Karl August, DR. TECH.; Swedish electrical engineer; b. 7 April 1900, Stockholm; s. of Carl Edvard Sterky and Hilma Almén; m. Kerstin Tottie 1927; two s. one d.; ed. Royal Inst. of Technology, Stockholm, and Harvard Univ., Cambridge, Mass., U.S.A.; Radio engineer, ASEA 1923-24; Transmission engineer, Royal Board of Swedish Waterfalls 1926-27, Svenska Radio AB 1927-31, and L. M. Ericsson Telephone Co. 1931-33; Head of Design Dept., L.M. Ericsson Telephone Co. 1933-37; Asst. Prof. of Telegraphy and Telephony 1934-37; Prof. pro tem. 1937-39, Ord. Prof. 1939-42, and Vice-Principal 1942, of Royal Inst. of Technology, Stockholm; Dir.-Gen. Royal Board of Swedish Telecommunications 1942-65; Pres. Swedish Nat. Comm. Int. Scientific Radio Union 1946-69, Board of Trustees, Swedish Nat. Comm. of Int. Electrotechnical Comm. 1948-71; mem. Board of Atomic Energy Co. 1947-69, Pripp Breweries Co. 1950-69, Scania Vabis Co. 1966-72, IBM Swedish Co. 1966-71, Inter-Union Cttee. on Frequency Allocations for Radio Astronomy and Space Sciences (I.C.S.U.) 1960-72; mem. Royal Swedish Acad. of Engineering Sciences, Royal Swedish Acad. of Sciences, Royal Swedish Academy of Military Sciences, Science Soc. of Uppsala and Danish Acad. of Technical Sciences; Polhem Gold Medal and Hon. mem. Swedish Asscn. of Engineers and Architects; I.V.A. Gold Medal 1969. *Publications:* The Use of Thermionic Valves for Generating Multiple Frequencies 1930, Methods of Computing and Improving the Complex Effective Attenuation, Load Impedances and Reflexion Coefficients of Electric Wave Filters 1933, Frequency Multiplication and Divison 1937, Puissance et affaiblissement dans les circuits électriques 1940, Fernwirkbetrieb in Stromversorgungsnetzen 1941, Uebertragungsverhältnisse auf bespülten und wahlrufs betriebenen Fernsprechleitungen 1943, Telecommunications in Sweden, present and future 1950, Past, Present and Future Telecommunication Standardization 1954, The First Century of Swedish Telecommunications and what we can learn from it 1956, The Foundation of Agriculture and Industry in Modern Sweden 1957, Trends of Development in the Swedish Telecommunication Services 1960, Swedish Telecommunications 1965, A Tele-Vision: Community Planning and Telecommunications 1972, A Television Comes True 1977. *Leisure interests:* skiing, handicraft. *Address:* Larsbergsvägren 46, 18138 Lidingoe, Stockholm, Sweden. *Telephone:* 08-600606.

STERN, Curt, PH.D.; American professor of zoology and genetics; b. 30 Aug. 1902, Hamburg, Germany; s. of Barned Stern and Anna (Liebrecht) Stern; m. Evelyn Sommerfield 1931; three d.; ed. Univ. of Berlin; Investigator, Kaiser Wilhelm Inst. 1923-33; Fellow, Int. Educ. Board 1924-26; Privatdozent, Univ. of Berlin 1928-33; Research Assoc. in Zoology, Univ. of Rochester, U.S. 1933-35, Asst. Prof. 1936-37, Assoc. Prof. 1937-41, Prof. and Chair. Dept. of Zoology and Chair. Div. of Biological Sciences 1941-47; Prof. of Zoology, Univ. of Calif. at Berkeley 1947-58, Prof. of Zoology and Genetics 1958-70, Emer. Prof. 1970-; Prather Lecturer, Harvard Univ. 1965; mem. Nat. Acad. of Sciences; Hon. Sc.D. (McGill Univ.) 1958, Hon. Dr.Rer.Nat. (Munich Univ.) 1972; Kimber Genetics Award 1963, Mendel Silver Medal of Czechoslovak Acad. of Science 1965, Fred Lyman Adair Award of American Gynaecological Soc. 1967. *Publications:* Multiple Allelie 1930, Faktorenkoppelung und Faktorenaustausch 1933, Principles of Human Genetics 1949, 1960, 1973, Origin of Genetics (Editor with E. Sherwood) 1966, Genetic Mosaics and Other Essays 1968; about 200 papers in scientific journals. *Leisure interest:* reading. *Address:* Department of Zoology, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 642-2919 (Office); 525-5313 (Home).

STERN, Ernest, M.A., PH.D.; American international official; b. 25 Aug. 1933, Frankfurt, Germany; s. of Henry Stern; m. Zina Gold 1957; ed. Queens Coll., New York, and Fletcher School of Law and Diplomacy; Economist, U.S. Dept. of Commerce 1957-59; Program Economist, U.S. Agency for Int. Devt. (USAID) 1959-63; Instructor, Middle East Tech. Univ. 1960-61; Economist, Office of Pakistan Affairs, USAID 1963-64, Officer in Charge Pakistan Affairs 1964-64, Asst. Dir. for Devt. Policy USAID India 1965-67, Deputy Dir. USAID Pakistan 1967-68, Deputy Staff Dir. Comm. on Int. Devt. (Pearson Comm.) 1968-69; Lecturer, Woodrow Wilson School of Public and Int. Affairs, Princeton 1971; Senior Staff mem. Council on Int. Econ. Policy, White House 1971; joined Int. Bank for Reconstruction and Devt. (World Bank) 1972, various posts incl. Deputy Chair. Econ. Cttee., Senior Adviser on Devt. Policy, Dir. Devt. Policy, then Vice-Pres. South Asia until 1978; Vice-Pres. Operations, World Bank July 1978-; William A. Jump Memorial Foundation Meritorious Award 1964, 1966. *Address:* International Bank for Reconstruction and Development, 19th and H Street, N.W., Washington, D.C. 20034; Home: 320 Woodley Park Towers Apartments, 2737 Devonshire Place, N.W., Washington, D.C. 20008, U.S.A. *Telephone:* (202) 234-7040 (Home).

STERN, Isaac; American violinist; b. 21 July 1920, Russia; s. of Solomon and Clara Stern; m. Vera Lindenblit 1951; two s. one d.; studied San Francisco, notably with Naoum Blinder; debut, San Francisco Symphony 1935; New York debut 1937; world tours every year 1947-; appearances with major orchestras; extensive recordings; frequent appearances major festivals—Edinburgh Casals, Berkshire, etc.; Pres. Carnegie Hall; Chair. Board of Dirs., American Israel Cultural Foundation; fmr. mem. Nat. Arts Council; founded Jerusalem Music Centre 1973; awarded first Albert Schweitzer Music Award 1975. *Address:* ICM Artists Ltd., 40 West 57th Street, New York, N.Y. 10019, U.S.A.

STERN, Leo, DR. RER. POL.; German (b. Austrian) historian and university professor; b. 27 March 1901, Woloka, Austria; m. Alice Stern 1945; one s. one d.; ed. Univs. of Vienna and Moscow; emigrated from Austria to Czechoslovakia and U.S.S.R. 1934; fought in Spanish Civil War; Prof. of History, Moscow 1940; Officer in Red Army 1941-45; Guest Prof., Univ. of Vienna 1945; Prof. of Modern History, Martin Luther-Universität, Halle-Wittenberg 1950, Rector 1953-59; fmr. Vice-Pres. German Acad. of Sciences, Dir. Historical Research Dept. 1968-; Chair. of G.D.R. Section Cttee. of Historians, G.D.R.—U.S.S.R.; Vaterländischer Verdienstorden in Silver (twice) and gold, Karl Marx Orden and other decorations. *Publications include:* Archivalische Forschungen zur Geschichte der deutschen Arbeiterbewegung (24 vols.); Philipp Melanchthon—Humanist, Reformator, Praeceptor Germaniae; Oktoberrevolution und Wissenschaft; 450 Jahre Reformation; Geschichte der Akademie der Wissenschaften der DDR von 1900-1945. *Leisure interest:* scientific history of the 19th and 20th centuries. *Address:* 1199 Berlin-Adlershof, Rudower Chaussee 5, German Democratic Republic. *Telephone:* 67-0-28-41/2514.

STERNBERGER, Dolf, DR. PHIL.; German writer and professor of political sciences; b. 28 July 1907, Wiesbaden; s. of Georg Sternberger and Luise Schauss; m. Ilse Rothschild 1931. Prof. of Political Science, Heidelberg Univ.; Dir. Inst. für Politische Wissenschaft; fmr. Chair. German Asscn. of Political Science; Pres. German PEN Club; Vice-Pres. German Acad. of Language and Literature; mem. German UNESCO Comm. *Publications:* Der verstandene Tod, eine Untersuchung zu Martin Heideggers Existential-Ontologie 1934, Panorama oder Ansichten vom 19. Jahrhundert 1938, 1955, 13 Politische Radioreden 1947, Figuren der Fabel 1950, Aus dem Wörterbuch des Unmenschen 1955, 1968, Lebende Verfassung, Studien über Koalition und Opposition 1956, Über den Jugendstil und andere Essays 1956, Indische Miniaturen 1957, Begriff des Politischen 1961, Grund und Abgrund der Macht 1962, Ekel der Freiheit 1964, Die Grosse Wahlreform 1964, Kriterien Ein Lesebuch 1965, Ich wünschte ein Bürger zu sein 1967. *Address:* 6 Frankfurt/M., Grüneburgweg 153, Federal Republic of Germany. *Telephone:* 72 64 40.

STERNFELD, Reuben; American financial official; b. 5 May 1924, New York; ed. Univs. of Maryland and Michigan; held various positions with Bureau of the Budget 1949-60; Special Asst. to Under-Sec. of State and Exec. Sec. President's Task Force on Foreign Econ. Assistance 1960-61; Officer, Bureau of Latin-American Affairs, Agency for Int. Devt. 1961-65; Assoc. U.S. Co-ordinator, Alliance for Progress 1965; Alt. Exec. Dir. IDB 1966-73; Asst. Dir. Council on Econ. Policy, Office of Pres. of U.S.A. 1973-74; Exec. Vice-Pres. IDB 1975-. *Address:* Inter-American Development Bank, 808 17th Street, N.W., Washington, D.C. 20577, U.S.A.

STEVENS, John Paul, J.D.; American judge; b. 20 April 1920, Chicago, Ill.; m. Elizabeth Jane Sheeren; four c.; ed. Univ. of Chicago, Northwestern Univ. School of Law; served U.S. Navy (Bronze Star Medal) 1942-45; Co-Ed. of Law Review at Northwestern Univ. School of Law 1947; Law Clerk to Supreme Court Justice Wiley Rutledge 1947; worked with Poppenhusen, Johnston, Thompson and Raymond law practice 1948-51, 1952; Partner, Rothschild, Stevens, Barry and Myers 1952-70; Circuit Judge,

Seventh Circuit Court of Appeals 1970-75; Assoc. Justice, U.S. Supreme Court Dec. 1975-; Assoc. Counsel, Monopoly Power Sub-Cttee. of House of Reps. Judiciary Cttee. 1951; mem. Attorney Gen.'s Nat. Cttee. on Antitrust Laws 1953-55; part-time teacher, North-western Univ. School of Law, later Univ. of Chicago Law School 1942-56; admitted to Ill. Bar 1949, to U.S. Supreme Court 1954. *Publications:* numerous articles on commercial monopoly affairs. *Address:* United States Supreme Court, 1 First Street, N.E., Washington, D.C. 20543, U.S.A.

STEVENS, Robert T., B.A.; American executive; b. 31 July 1899, Fanwood, N.J.; s. of John P. and Edna Ten Broeck Stevens; m. Dorothy Goodwin Whitney 1923; four s. one d. (deceased); ed. Philipps Acad., Andover, Mass. and Yale Univ.; entered employment of J. P. Stevens & Co. Inc. 1921; Admin. Rep. in industry section of Nat. Recovery Admin. 1933; Head of Textile Section, Nat. Defence Advisory Comm. 1940; District Co-ordinator of defence contract service, Office of Production Man. New York area 1941; Class B. Dir. Fed. Reserve Bank of N.Y. 1934-42, Class C. Dir. and Chair. 1948-53; Chair. Business Advisory Council of U.S. Dept. of Commerce 1951-52; Secretary of the Army Feb. 1953-55; served in both World Wars, Col. 1942, serving in Procurement Div., Office of Quartermaster-Gen., Washington, D.C. 1942-45, temporary duty, European Theatre 1945; Chair. Board J. P. Stevens & Co. Inc. 1945-53, 1962-64, Pres. 1955-69, Chief Exec. Officer 1962-69, Chair. Exec. Cttee. 1969-74; Dir. Emer. Gen. Electric Co.; mem. Dir. Advisory Council, Morgan Guaranty Trust Co. of New York; Trustee, Mutual Life Insurance Co. of New York; D.S.M.; Legion of Merit; numerous hon. degrees. *Address:* Stevens Building, 1460 Broadway, New York, N.Y. 10036, U.S.A.; 1 Woodland Avenue, South Plainfield, N.J. 07080, U.S.A. (Home).

STEVENS, Sir Roger Bentham, G.C.M.G.; British diplomatist; b. 8 June 1906, Lewes; s. of F. Bentham Stevens and Cordelia Wheeler; m. 1st Constance Hipwell 1931 (died 1976); one s.; m. 2nd Jane Chandler Irving 1977; ed. Wellington Coll. and Queen's Coll., Oxford; entered Consular Service 1928; served Buenos Aires, New York, Antwerp; Ministry of Information 1939-42; Consul in Denver, U.S.A 1942-44; Sec. British Civil Secr., Washington 1944-46; Foreign Office 1946-51; Amb. to Sweden 1951-54, to Iran 1954-58; Deputy Under-Sec. Foreign Office 1958-63; Vice-Chancellor, Leeds Univ. 1963-70; Chair. Yorks. and Humberside Economic Planning Council 1965-70; mem. Panel of Enquiry into Greater London Devt. Plan 1970-72; mem. UN Admin. Tribunal 1972-; Chair. Cttee. on Minerals Planning Control 1972-74; Dir. British Bank of the Middle East 1964-77. *Publications:* The Land of the Great Sophy 1962. *Address:* Hill Farm, Thursley, Surrey, England. *Telephone:* Elstead 2115.

STEVENS, Siaka Probyn; Sierra Leonean politician; b. 24 Aug. 1905, Moyamba; m. Rebecca Stevens 1940; seven s. two d.; ed. Albert Acad., Freetown, and Ruskin Coll., Oxford (1947-48); Sierra Leone Police Force, rising to rank of First Class Sergeant and Musketry Instructor 1923-30; railway worker, rising to Station Master, later mine worker with Sierra Leone Devt. Co. (DELCO) 1930-43; Sec. Marampa Mineworkers Union 1943, later Gen. Sec. United Mineworkers Union; mem. Protectorate Assembly, Bo 1945; at Ruskin Coll., Oxford 1947-48; mem. Legis. Council 1951-57, Minister of Lands, Mines and Labour 1951; Founder mem. Sierra Leone Org. Soc., later Sierra Leone People's Party; Deputy Leader People's Nat. Party 1958-60; Leader All People's Congress 1960-; political imprisonment 1961; Mayor of Freetown 1964-65; Prime Minister March 1967; in exile 1967-68; Prime Minister 1968-71; Pres. of Repub. of Sierra Leone April 1971-; Commdr. of the Army 1975-; Chancellor Univ. of Sierra Leone 1973-; Hon. D.C.L. (Univ. of Sierra Leone) 1969; Grand Commdr. Order of the Repub. 1973. *Leisure interest:* walking. *Address:* Office of the President, State House, Freetown, Sierra Leone.

STEVENS, Ted, LL.B.; American lawyer and politician; b. 18 Nov. 1923, Indianapolis, Ind.; s. of George A. Stevens; m. Ann Cherrington 1952; three s. two d.; ed. High School, Redondo Beach, Calif., Univ. of Calif. at Los Angeles, and Harvard Law School; U.S. Attorney, Fairbanks, Alaska 1953-56; Legis. Counsel, Dept. of Interior, Washington, D.C. 1956-58; Asst. to Sec. of Interior 1958-60; Solicitor of Interior Dept. 1960; private law practice, Anchorage, Alaska 1961-68; Senator from Alaska 1968-; Asst. Minority Leader U.S. Senate; U.S. Senate del. to Int. Law of the Sea Conf., to Canadian-U.S. Interparliamentary Conf.; Republican. *Address:* 260 Russell Senate Office Building, Washington, D.C., U.S.A. (Office). *Telephone:* 202-224-3004.

STEVENSON, Adlai E., III; American senator; b. 10 Oct. 1930, Chicago, Ill.; s. of late Adlai Stevenson II (fmr. Gov. of Illinois, presidential candidate and Amb. to UN); great-grandson of Adlai E. Stevenson (Vice-Pres. of U.S.A. 1893-97); m. Nancy Anderson 1955; two s. two d.; ed. Milton Acad., Mass., and Harvard Univ.; law clerk to a justice of Illinois Supreme Court 1957; joined Chicago law firm of Mayer, Friedlich, Spiess, Tierney, Brown and Platt 1958, subsequently partner until 1970; elected to Ill. House of Reps. 1964; State Treas. of Ill. 1966-70; Senator from Illinois Nov. 1970-; Democrat. *Address:* 456 Senate Office Building, Washington, D.C. 20510, U.S.A.

STEVER, Horton Guyford, PH.D.; American scientist and company director; b. 24 Oct. 1916, Corning, N.Y.; s. of Ralph Raymond Stever and Alma Matt; m. Louise Risley 1946; two s. two d.; ed. Colgate Univ. and Calif. Inst. of Technology; mem. Staff Radiation Lab. and Instructor, Officers' Radar School, Mass. Inst. of Technology (M.I.T.) 1941-42; Science Liaison Officer, London Mission, Office of Scientific Research and Devt. 1942-45; Asst. Prof. of Aeronautical Eng. M.I.T. 1946-51, Assoc. Prof. 1951-56, Prof. 1956-65; Chief Scientist, U.S.A.F. 1955-56; Assoc. Dean of Eng. M.I.T. 1956-59, Head Depts. of Mechanical Eng. Naval Architecture and Marine Eng. 1961-65; Pres. Carnegie-Mellon Univ. 1965-72; Chair. U.S.A.F. Scientific Advisory Board 1962-69; mem. exec. cttee. Defense Science Board, Dept. of Defense 1962-69; mem. Panel on Science and Technology U.S. House of Reps. Comm. on Science and Technology, 1959-72; Trustee, Colgate Univ. 1962-72, Sarah Mellon Scaife Foundation 1965-72, Shady Side Acad. 1967-72, Univ. Research Assn. 1977-; Dir. Fisher Scientific Co. 1965-72, Koppers Co. 1965-72, System Devt. Corpn. 1965-70, United Aircraft Corpn. 1966-72, TRW 1977-, Saudi Arabian Nat. Center for Science and Tech. 1978-; Chair. Aeronautics and Space Eng. Board Nat. Acad. of Eng. 1967-69; mem. Nat. Science Board 1970-72; Dir. Nat. Science Foundation 1972-76; Science Adviser and Chair. Fed. Council for Science and Technology, Exec. Cttee. Nat. Science Board, Energy R & D Advisory Council; U.S. Chair. U.S.-U.S.S.R. Joint Comm. on Scientific and Technical Co-operation; mem. U.S.-Japan Cttee. on Scientific Co-operation, Fed. Council on the Arts and Humanities, Nat. Council on Educational Research, and many other Govt. bodies; 17 hon. degrees; President's Certificate of Merit 1948, Exceptional Civilian Service Award, U.S.A.F. 1956, Scott Gold Medal of American Ordnance Assn. 1960, Alumni Distinguished Service Award Calif. Inst. of Technology 1966, Distinguished Public Service Medal, Dept. of Defense 1969, Commdr. Order of Merit, Poland 1976. *Publication:* Flight (with J. J. Haggerty) 1965. *Leisure interests:* skiing, fishing, golf, hiking. *Address:* National Academy of Sciences, 2101 Constitution Avenue, Washington, D.C. 20418; 1528 33rd Street N.W. Washington, D.C. 20007, U.S.A. *Telephone:* (202) 389-6243; (202) 338-5537 (Home).

STEWART, D. S., O.B.E.; Australian mechanical and electrical engineer; b. 18 Dec. 1919, Brisbane; ed. Queensland Univ.; fmr. Man. Britannia Production and Devt., Bristol Aircraft Co.; Dir., Gen. Man. Hestair Group; Dir. of Eng., Clyde Eng. Pty. Ltd., Chief Exec., Hadfields-Goodwin-Scotts Group; Man. Dir. Hamersley Holdings Ltd. and Hamersley Iron Pty. Ltd. 1973-78; Fellow, Inst. of Engns., Australia; mem. Royal Aeronautical Soc.; Deputy Chair. and Chief Exec. Peko-Wallsend Ltd. 1978-. *Address:* Peko-Wallsend Ltd., 47 Macquarie Street, Sydney, N.S.W. 2000, Australia.

STEWART, Sir Dugald Leslie Lorn, K.C.V.O., C.M.G. British diplomatist; b. 10 Sept. 1921, London; s. of Allan W. and Marjorie Stewart; m. Sibyl Anne Sturrock, M.B.E.; three s. one d.; ed. Eton and Magdalen Coll., Oxford; entered diplomatic service 1942; served in Belgrade 1945-48, Berlin 1948-50, Amara, Iraq 1950-51, Cairo 1951-53, Foreign Office 1953-56, Belgrade 1956-59, Foreign Office 1959-62, Moscow 1962-64; Imperial Defence Coll. 1965; Inspector, Diplomatic Service 1966-69; Counsellor, Cairo 1969-71; Amb. to Yugoslavia 1971-77. *Leisure interests:* shooting, fishing, golf. *Address:* Home: Salachail, Glen Creran, Appin, Argyll, Scotland.

STEWART, Francis Eugene; Australian politician; b. 20 Feb. 1923; s. of late P. F. Stewart and Mrs. M. M. Stewart; m. Maureen N. Smith 1952; one s. five d.; ed. Christian Brothers' Coll., St. Mary's Cathedral, Sydney; Clerk, Transport Dept., N.S.W. Govt. 1939; Army Service 1941-46; Transport Dept. 1946-53; mem. House of Reps. for Lang 1953-, Grayndler 1977-; mem. Fed. Parl. Labor Party Exec. 1969-75; Minister of Tourism and Recreation Dec. 1972-Nov. 1975, concurrently Minister Assisting the Treasurer 1973-75; Vice-Pres. of Exec. Council 1973-75; Vice-Pres. Pacific Area Travel Assn. (PATA) 1973-74, Chair. PATA Annual Conference and Workshops 1975, Life Mem. 1975-; Labor Party. *Leisure interests:* tennis, bowls. *Address:* 2A Wilson Avenue, Belmore, N.S.W.; and 132 Beamish Avenue, Campsie, N.S.W. 2194, Australia.

STEWART, Frederick Henry, K.B., B.SC., PH.D., D.SC., F.R.S., F.R.S.E.; British geologist; b. 16 Jan. 1916, Aberdeen; s. of Frederick R. Stewart and Hester Alexander; m. Mary Florence Elinor Rainbow

1945; ed. Fettes Coll., Edinburgh, Univ. of Aberdeen, Emmanuel Coll., Cambridge; Mineralogist in Research Dept., ICI Ltd. 1941-43; Lecturer in Geology, Durham Univ. 1943-56; Regius Prof. of Geology, Edinburgh Univ. 1956-; Chair. Natural Environment Research Council 1971-73, Advisory Board for the Research Councils 1973-79; mem. Advisory Council for Applied Research and Devt. 1977-; Lyell Fund Award, J. B. Tyrrell Fund, Lyell Medal, Geological Soc. of London; Mineralogical Soc. of America Award; Clough Medal, Geological Soc. of Edinburgh; Sorby Medal, Yorkshire Geological Soc. 1975. *Publications:* papers in Mineralogical Magazine, Journal of Geological Society of London and other journals dealing with igneous and metamorphic petrology and salt deposits. *Address:* Grant Institute of Geology, University of Edinburgh, West Mains Road, Edinburgh, EH9 3HJ; 79 Morningside Park, Edinburgh, EH10 5EZ, Scotland (Home).

STEWART, Sir Herbert Ray, Kt., C.I.E., M.SC., F.R.C.SC.I., D.I.C., N.D.A.; British international agricultural consultant; b. 10 July 1890, Cambridge, Mass. U.S.A.; s. of Hugh Stewart and Rebecca Stewart (née Rea); m. 1st Evangeline Rea 1917 (died 1955), 2nd Elsie Pyne 1957; one d.; ed. Royal Coll. of Science for Ireland and Imperial Coll. of Science and Technology, London; served in France First World War 1915-18; apptd. to Indian Agricultural Service 1920; Prof. of Agric. Punjab 1921-27; Asst. Dir. of Agric. Punjab 1927-32, Dir. of Agric. 1932-43; Fellow Univ. of Punjab 1927-43, Dean of Faculty of Agric. 1932-43; Agricultural Commr. with Govt. of India 1943-46; Vice-Chair. Imperial Council of Agricultural Research India, Pres. Board of Agric. and Animal Husbandry India; Chair. All-India Central Cttees. for Cotton, Jute, Lac, Sugar-cane, Tobacco, Coconuts and Pres. Indian Coffee Board 1944-46; Agricultural Adviser British Middle East Office Cairo 1946-51; Agricultural Adviser, UN Economic Survey Mission for the Middle East 1949, UN Relief and Works Agency for Palestine Refugees 1950-51; Chief, Agricultural Mission of Int. Bank for Reconstruction and Development to Colombia 1955-56, Agricultural Consultant Economic Missions of Int. Bank to Pakistan 1956 and 1958, Italy 1957, Yugoslavia 1960, Uganda 1960-61, Kenya 1961-62. *Leisure interest:* gardening. *Address:* 29 Alyth Road, Bournemouth, BH3 7DG, Dorset, England. *Telephone:* 0202-764782.

STEWART, Sir Iain Maxwell, Kt., LL.D., B.SC.; British company director; b. 16 June 1916, Glasgow; s. of W. Maxwell Stewart; m. Margaret Jean Walker 1941 (dissolved 1967); two s. two d.; ed. Loretto School and Glasgow Univ.; Dir. Thermotank 1941-46, Man. Dir. 1946-50, Chair. 1950-64; Chair. Hall-Thermotank 1959-60 and 1964-; Dir. Express, Eagle Star Insurance Co., Royal Bank of Scotland, Dunbar & Co., Industrial Communications Ltd., Dorchester Hotel; Chair. H.P. (Management Consultants) Ltd.; Deputy Chair. Caledonian Airways Ltd.; Dir. Dorchester Hotel Ltd., APV Holdings 1976-; Capt. Royal and Ancient Golf Club of St. Andrew's 1972-73. *Leisure interest:* golf. *Address:* Lochbrae House, Bearsden, Dunbartonshire, Scotland. *Telephone:* 041-942 7952.

STEWART, James (Maitland), D.F.C., B.S.; American actor; b. 20 May 1908, Indiana, Pa.; s. of Alexander and Elizabeth (Jackson) Stewart; m. Gloria McLean 1949; two s. twin d.; ed. Mercersburg Acad. and Princeton Univ.; stage debut in New York 1932; film debut 1935; in air force reserves 1943-45, rising to Lt.-Col. retd. ■ Brigadier Gen. 1968; American Motion Picture Acad. Award for Philadelphia Story 1940, New York Critics' Award for Mr. Smith Goes to Washington 1939, Volpi Cup, Venice 1959, for performance in Anatomy of a Murder. Stage Performances: Harvey, New York 1947, London 1975. *Films include:* Seventh Heaven 1937, Vivacious Lady 1938, You Can't Take It with You 1938, Mr. Smith Goes to Washington 1939, Destry Rides Again 1939, The Shop Around the Corner 1939, The Philadelphia Story (Acad. Award) 1940, Ziegfeld Girl 1941, It's a Wonderful Life 1946, Call Northside 777 1947, Rope 1948, Winchester 73 1950, Broken Arrow 1950, Harvey 1950, The Greatest Show on Earth 1951, Bend of the River (British title Where the River Bends) 1952, The Naked Spur 1953, Thunder Bay 1953, The Glenn Miller Story 1953, Rear Window 1954, The Far Country 1954, The Man from Laramie 1955, The Man Who Knew Too Much 1956, The Spirit of St. Louis 1957, Vertigo 1958, Bell, Book and Candle 1958, Anatomy of ■ Murder 1959, Two Rode Together 1961, The Man Who Shot Liberty Valance 1962, Mr. Hobbs Takes a Vacation 1962, How the West Was Won 1962, Cheyenne Autumn 1964, Shenandoah 1965, The Flight of the Phoenix 1965, The Rare Breed 1966, Firecreek 1967, Bandolero 1968, The Cheyenne Social Club 1970, Fool's Parade 1971, Dynamite Man from Glory Jail 1971, The Shootist 1976, Airport 77 1977, The Big Sleep 1977, The Magic of Lassie 1978. TV series: The Jimmy Stewart Show 1971-72, Hawkins on Murder 1973-74. *Address:* P.O. Box 550, Beverly Hills, Calif. 90213, U.S.A.

STEWART, John Young (Jackie), O.B.E.; Scottish racing driver (retd.); b. 11 June 1939, Milton, Scotland; s. of the late Robert Paul Stewart and of Jean Clark Young; m. Helen McGregor 1962; two s.; ed. Dumbarton Acad.; first raced 1961; competed in 4 meetings driving for Barry Filer, Glasgow 1961-62; drove for Ecurie Ecosse and Barry Filer, winning 14 out of 23 starts 1963, 28 wins out of 53 starts 1964; drove formula 1 for British Racing Motors (BRM) 1965-67, for Ken Tyrrell 1968-73; has won Australian, New Zealand, Swedish, Mediterranean, Japanese and many other non-championship major int. motor races; set new world record by winning his 26th World Championship Grand Prix (Zandvoort) 1973, 27th (Nürburgring) 1973; Third in World Championship 1965, 2nd in 1968 and 1972, World Champion 1969, 1971, 1973; British Automobile Racing Club Gold Medal 1971, Daily Express Sportsman of the Year 1971, 1973, BBC Sports Personality of the Year 1973, Scottish Sportsman of the Year 1973, U.S. Sportsman of the Year 1973, Segrave Trophy 1973; film: Weekend of ■ Champion 1972. *Publication:* Faster! (with Peter Manso) 1972. *Leisure interests:* shooting, golf, tennis. *Address:* Clayton House, 1268 Begnins, Vaud, Switzerland. *Telephone:* Geneva (022) 61.01.52.

STEWART, Rt. Hon. Michael (see Stewart of Fulham).

STEWART, Potter, B.A., LL.B.; American judge; b. 23 Jan. 1915, Jackson, Mich.; s. of James Garfield Stewart and Harriet Loomis Potter; m. Mary Ann Bertles 1943; two s. one d.; ed. Hotchkiss School, Cambridge (England) and Yale Univs.; admitted to Ohio Bar 1941, New York Bar 1942; Assoc. Debevoise, Stevenson, Plimpton and Page (New York) 1941-42, 1945-47; Assoc., Dinsmore, Shohl, Sawyer and Dinsmore (Cincinnati) 1947, Partner 1951-54; service in U.S. Naval Reserve 1941-45; mem. Cincinnati City Council 1950-53, Vice-Mayor 1952-53; Judge, U.S. Court of Appeals (Sixth Circuit) 1954-58; Assoc. Justice, U.S. Supreme Court 1958-; mem. Court Admin. Cttee., Judicial Conf. of the U.S. 1955-58; mem. American, Ohio, Cincinnati, City of New York Bar Asscns., American Law Inst., American Judicature Soc., etc. *Address:* Supreme Court of the United States, Washington, D.C. 20543; 5136 Palisade Lane, N.W., Washington, D.C. 20016, U.S.A. (Home). *Telephone:* 202-252-3000.

STEWART OF FULHAM, Baron (Life Peer), cr. 1979, of Fulham in Greater London; (Robert) **Michael Maitland,** P.C., C.H.; British politician and author; b. 6 Nov. 1906, Bromley, Kent; s. of Robert and Eva Stewart; m. Elizabeth Birkinshaw (Baroness Stewart of Alvechurch) 1941; ed. Brownhill Road LCC School, Christ's Hospital and St. John's Coll., Oxford; mem. Parl. 1945-79, Govt. Whip 1945-47, Under-Sec. of State for War 1947-51, Parl. Sec. Ministry of Supply 1951; Sec. of State for Education and Science 1964-65, for Foreign Affairs 1965-66; First Sec. of State 1966-68; Sec. of State for Econ. Affairs 1966-67, for Foreign and Commonwealth Affairs 1968-70; Leader, British Labour Del. to European Parl. 1975-76; Labour. *Publications:* The Forty Hour Week 1936, Bias and Education for Democracy 1937, The British Approach to Politics 1938, Modern Forms of Government 1959. *Leisure interests:* chess, painting. *Address:* 11 Felden Street, London, S.W.6, England. *Telephone:* 01-736 5194.

STEWART, Thomas; American opera singer; b. 29 Aug. 1928, San Saba, Texas; s. of Thomas James Stewart and Gladys Naomi (Reavis) Stewart; m. Evelyn Lear (*q.v.*) 1955; one s. one d.; ed. Baylor Univ., Julliard School of Music; joined Berlin Opera 1958; first performance at Bayreuth Festival 1960; has performed at Metropolitan Opera, New York, Royal Opera House, Covent Garden, London, La Scala, Milan, Vienna State Opera, Grand Opera, Paris, Bavarian State Opera, San Francisco Opera, Chicago Opera, Hamburg Opera; appears with all major orchestras of the world; gives recitals internationally with Evelyn Lear (*q.v.*). *Major roles include:* Hans Sachs (The Mastersingers of Nuremberg), Falstaff, Wotan (The Ring cycle), The Flying Dutchman, Scarpia (Tosca), Iago (Otello), Golaud (Pelléas et Mélisande), Amfortas (Parsifal). *Leisure interests:* theatre, tennis, golf. *Address:* c/o Tramontano, 425 West 23rd Street, 4E, New York, N.Y. 10011, U.S.A.

STEWART, Thomas Dale, A.B., M.D.; American physical anthropologist; b. 10 June 1901, Delta, Pa.; s. of Thomas Dale and Susan Price Stewart; m. 1st Julia Cable Wright 1932, 2nd Rita Frame Dewey 1952; one d.; ed. George Washington Univ. and Johns Hopkins Medical School; Aid, Div. of Physical Anthropology, U.S. Nat. Museum 1927-31, Asst. Curator 1931-39, Assoc. Curator 1939-42, Curator 1942-61, Head Curator, Dept. of Anthropology 1961-62; Dir. Nat. Museum of Natural History 1962-65, Snr. Physical Anthropologist, Dept. of Anthropology 1966-71, Anthropologist emer. 1971-; Hon. D.Sc. (Univ. of Cuzco, Peru) 1949; Viking Fund Medal and Award 1953, Joseph Henry Medal 1976. *Publications:* over 190 scientific articles in the fields of anthropometry, paleo-

pathology and forensic anthropology. *Leisure interests:* gardening, portrait-painting. *Address:* National Museum of Natural History, Smithsonian Institution, Washington, D.C. 20560; 1191 Crest Lane, McLean, Va. 22101, U.S.A. (Home). *Telephone:* 381-5456 (Office); 522-4328 (Home).

STEYN, S. J. Marais, B.A., LL.B.; South African politician; b. 25 Dec. 1914, Cape Prov.; s. of M. H. Steyn; m. Susan E. Moolman; two s. two d.; ed. Univ. of Cape Town, Univ. of Witwatersrand; Journalist 1938-40; Govt. Information Services 1940-42; Political Sec. 1942-48; mem. Parl. 1948- (United Party to 1974); defected from United Party and joined Nat. Party 1974; Minister of Tourism 1975-78, of Indian Affairs 1975-, of Coloured Relations 1979-, of Community Devt. Jan. 1976-. *Leisure interests:* bowls, sound recordings. *Address:* Private Bag X364, Pretoria, 0001, South Africa. *Telephone:* Pretoria 37171.

STICHT, J. Paul; American business executive; b. 3 Oct. 1917, Clairton, Pa.; s. of Joseph P. and Adah M. Sticht; m. A. Ferne Cozad 1940; two s.; ed. Grove City Coll. and Univ. of Pittsburgh Graduate School; started as shipping clerk, U.S. Steel Co., industrial engineer 1941-44; Air Transport Command, TWA airlines div. 1944-48; various posts Campbell Soup Co. 1948-60; various posts Federated Dept. Stores 1960-65, Pres. 1967-72; Chair Exec. Cttee. and Dir. R. J. Reynolds Industries Inc. 1972-73, Pres., Chief Operating Officer and Dir. 1973-78, Pres., Chief Executive Officer and Dir. 1978-; Dir. Celanese Corpn., S. C. Johnson & Son, Inc., Foremost-McKesson Inc., The Wachovia Corpn.; senior mem. The Conference Board Inc.; Trustee Rockefeller Univ.; Visitor, Bowman Gray School of Medicine, Grad. School of Business of Univ. of Pittsburgh, Grad. School of Business Admin. of Duke Univ.; Trustee, Grove City Coll., Old Salem Inc. *Leisure interests:* golf, boating, fishing. *Address:* R. J. Reynolds Industries Inc., World Headquarters, Winston-Salem, N.C. (Office); 2705 Bartram Place, Winston-Salem, N.C., U.S.A. (Home). *Telephone:* 919-748 7100 (Office); 919-748-1100 (Home).

STIELER VON HEYDEKAMPF, Gerd, DR.ING.; German business executive; b. 5 Jan. 1905, Berlin; s. of Kurt Stieler von Heydekampf and Frieda née Gelau; m. Elizabeth Heuschen 1931; one s. two d.; ed. public schools and Technische Hochschule, Brunswick; Research engineer in U.S.A. 1930-33; joined Adam Opel AG 1933, mem. of Board 1936; Man. Dir. Henschel & Sohn GmbH, Kassel 1942; joined NSU Motorenwerke 1948, mem. of Board 1950, Chair. of Board 1953-69, Chair. of Board AUDI NSU 1969-71; mem. Advisory Board AUDI NSU 1972-; Fried. Krupp GmbH 1968-74, Frankfurter Verischerung 1969-74. *Publications:* scientific papers (engineering) 1927-33. *Leisure interests:* golf, literature, natural sciences. *Address:* 7100 Heilbronn, Alexanderstrasse 1939, Federal Republic of Germany. *Telephone:* 73135.

STIGLER, George Joseph; American professor of economics; b. 17 Jan 1911, Renton, Wash., U.S.A.; s. of Joseph Stigler and Elizabeth Hungler; m. Margaret Mack 1936 (deceased); three s.; ed. Univs. of Washington, Chicago and Northwestern Univ.; Asst. Prof. Iowa State Univ. 1936-38, Univ. of Minnesota 1938-41, Assoc. Prof. 1941-44, Prof. 1944-46; Prof. Brown Univ. 1946-47; Prof. Columbia Univ. 1947-57, Center for Advanced Study in Behavioral Sciences 1957-58, Univ. of Chicago 1958-; Pres. American Economic Association 1964; Vice-Chair. Securities Investor Protection Corpn.; Editor Journal of Political Economy 1974-; Alumnus Summa Laude Dignatus (Univ. of Washington) 1969; Hon. Dr. Sc. (Carnegie-Mellon Univ.) 1973, (Rochester Univ.) 1974, (Helsinki School of Economics) 1976. *Publications:* many books and papers. *Leisure interests:* golf, tennis, photography. *Address:* University of Chicago, Chicago, Ill. 60637; 2621 Brassie Avenue, Flossmoor, Ill. 60422, U.S.A. (Home). *Telephone:* 312-753-3606 (Office); 312-799-5823 (Home).

STIKKER, Dirk Uipko, DR.JUR.; Netherlands politician and diplomatist; b. 5 Feb. 1897; ed. Univ. of Groningen; fmr. Man. Dir. of branches of Twentsche Bank at Leyden and Haarlem; Man. Dir. of Heinekin Lagerbeer Brewery Co. Ltd. 1935-48; Dir. of S.A. des Bières Bomonti & Pyramides, Cairo; mem. of board of Société Internationale de Brasserie, Brussels; Founder and Chair. Neths. Foundation of Labour; Founder (1946) and Pres. of Party of Freedom and Democracy; mem. of Senate; Minister of Foreign Affairs 1948-52; Political Conciliator, later Chair., OEEC 1950-52; Amb. to Great Britain 1952-58; Minister, later Amb., to Iceland 1954-58; Head, combined Dutch perm. representation to North Atlantic Council and OEEC with rank of Amb. 1958-61, Sec.-Gen. of NATO 1961-64; Dir. Royal Dutch Shell Group 1964-67; fmr. Dir. of 15 companies; fmr. Chair Employers' Org.; retd.; Consultant to UNCTAD; Hon. LL.D. (Brown Univ.); Hon. G.C.V.O., Hon. G.B.E. *Publications:* Men of Responsibility 1966; reports and articles for UNCTAD and Asian Devt. Bank on private investment in developing countries.

STINO, Kamal Ramzi; Egyptian international official and former politician; Minister of Supplies 1959, 1962-63; Deputy Prime Minister for Supply and Internal Trade 1964-66; mem. Gen. Secr. of Arab Socialist Union 1966; now Dir.-Gen. Arab Org. for Agricultural Devt. *Address:* Arab Organization for Agricultural Development, 4 el-Gamaa Street, P.O. Box 474, Khartoum, Sudan.

STINSON, George Arthur, A.B., LL.B.; American lawyer and business executive; b. 11 Feb. 1915 ; s. of John McCollum Stinson and Alice Loving; m. Betty Millsop 1947; three s. one d.; ed. Northwestern Univ. and Columbia Univ.; admitted to New York Bar 1939; U.S. Air Force 1941-45; Partner in law firm Cleary, Gottlieb, Friendly and Hamilton, New York, 1946-61; Act. Asst. Attorney-Gen., Washington, D.C. 1947-48; Nat. Steel Corpn., Pittsburgh, Vice-Pres. and Sec. 1961-63, Dir. 1963-, Pres. 1963-75, Chief Operating Officer 1963-75, Chief Exec. Officer 1963-, Chair. of Board of Dirs. 1972-; Chair. American Iron and Steel Inst. 1969-71; Dir. Int. Iron and Steel Inst., Vice-Chair. 1974, Chair 1975-77; mem. of Board Hanna Mining Co., Iron Ore Co. of Canada, Allegheny Ludlum Inds. Inc., Ralston Purina Co., Nat. Bank of Detroit, Pittsburgh Nat. Bank, People's Bank of Weirton, Bank of Weirton; Trustee Mutual Life Insurance Co. of New York, Univ. of Pittsburgh, Presbyterian Univ. Hosp., Pittsburgh; mem. American Law Inst., Board of Regents, Northwestern Univ., President's Cttee. on Int. Trade and Investment Policy 1970-71; Hon. LL.D. (West Virginia Univ.) 1968, (Bethany Coll.) 1972; Hon. L.H.D. (Thiel Coll.) 1974; Legion of Merit. *Address:* National Steel Corporation, 2800 Grant Building, Pittsburgh, Pa. 15219 (Office); 420 Oliver Road, Sewickley, Pa. 15143, U.S.A. (Home).

STIRLING, Alfred, C.B.E., M.A., LL.B.; Australian fmr. diplomatist; b. 8 Sept. 1902; s. of Robert Andrew and Isabel Stirling; ed. Scotch Coll., Melbourne, Univ. of Melbourne, and Univ. Coll., Oxford; Head, Pol. Div., Australian Dept. of External Affairs 1936; External Affairs Officer, London 1936-45; Counsellor, Australian Legation to Netherlands 1943-45; Australian High Commr. to Canada 1945-47; Minister, Australian Embassy, Washington 1947-48; Australian High Commr. in S. Africa 1948-50; Amb. to the Netherlands 1950-55, to France 1955-59, to Philippines 1959-62, to Italy 1962-67 (also to Greece 1964-65); Grand Cross of Order of St. Gregory. *Publications:* Victorian (with John Oldham) 1934, Joseph Bosisto 1970, The Italian Diplomat 1971, Gang Forward, A Stirling Note-Book 1972, On the Fringe of Diplomacy 1973, Lord Bruce of Melbourne: The London Years 1974, A Distant View of the Vatican 1975. *Address:* 30 St. Ives, 166 Toorak Road West, South Yarra, Victoria 3141, Australia. *Telephone:* 267-1140.

STIRLING, Duncan Alexander; British banker; b. 6 Oct. 1899; s. of Major William Stirling, D.L., J.P. and Charlotte Eva Mackintosh; m. Lady Marjorie Murray 1926; two s.; ed. Harrow and New Coll., Oxford; Partner with H. S. Lefevre and Co. 1929-49; Dir. Westminster Bank (now Nat Westminster Bank Ltd.) 1935-74, Deputy Chair. 1948-61, Chair. 1962-69; Dir. of Westminster Foreign Bank 1935-74, Chair. 1962-69; Chair. Cttee. of London Clearing Bankers 1966-68; Dir. London Life Assn. 1935-, Pres. 1952-66; Pres. Inst. of Bankers 1964-66; Dir. Mercantile Investment Trust 1937-74, Baring Foundation. *Address:* 28 St. James's Place, London, S.W.1; Lake House, Avington, Winchester, Hants, England.

STIRLING, James, DIP.ARCH., A.R.I.B.A.; British architect and town planner; b. 1926, Glasgow; s. of Joseph Stirling and Louisa Frazer; m. Mary Shand 1966; one s. two d.; ed. Liverpool School of Art, Liverpool Univ. School of Architecture; with Assn. of Town Planning and Regional Research, London 1950-52; Asst. Lyons Israel and Ellis 1953-56; mem. Inst. of Contemporary Art Independent Group 1952-56; private practice 1956-, with James Gowan 1956-63, with Michael Wilford 1971-; exhbns. New York 1969, London 1974; Charles Davenport Visiting Prof., Yale Univ. 1970; has lectured in Europe, U.S.A. 1960-; Hon. mem. Akad. der Kunst, Berlin 1969, American Inst. of Architects 1975. *Major works:* Flats, Ham Common 1955-58, Leicester Univ. Engineering Building (U.S.A. Reynolds Award) 1959-63, Cambridge Univ. History Faculty 1964-67, Andrew Melville Hall, St. Andrews Univ. 1964-68, Dorman Long Steel Co. Head Office 1965, Runcorn New Town Housing 1968-, Florey Building, Queen's Coll., Oxford 1967-71, Redevt. Plan of West Mid-Town Manhatten for New York Planning Comm. 1968-69, Olivetti Training School 1969-72, Olivetti Head Office, U.K. 1970-, Arts Centre, St. Andrew's Univ. 1971-, Admin. Centre, Algeria, Regional Centre, Italy, Museum of Science, Iran, State Art Gallery, Stuttgart; Alvar Aalto Mem. Award 1978. *Pub-*

lications: include Buildings and Projects 1950-74, R.I.B.A. Drawings Catalogue. *Address:* 75 Gloucester Place, London, W1H 3PF, England. *Telephone:* 01-486 4257/8.

STIRN, Olivier, L. EN D.; French civil servant; b. 24 Feb. 1936, Boulogne Billancourt; s. of Alexandre Stern and Geneviève Dreyfus; m. Marine Saunier 1961; two s.; ed. Univ. of Paris; Deputy for Calvados 1968-; Councillor General, Mayor of Vire 1970-; Sec. of State for Parl. Relations 1973, for Overseas Territories 1974-78, attached to Minister of Foreign Affairs 1978-; Vice-Pres. Radical Party 1978-. *Address:* 27 rue Oudrot, Paris 7e, France. *Telephone:* 577-02-77.

STOCKHAUSEN, Karlheinz; German composer; b. 22 Aug. 1928, Moedrath bei Köln; s. of Simon Stockhausen and Gertrud Stupp; m. 1st Doris Andreae 1951, 2nd Mary Bauermeister 1967; two s. four d.; ed. Cologne State Music Conservatory Univs. of Cologne and Bonn; Worked with Olivier Messiaen and with the "Musique Concrète" Group in Paris 1952-53; with Westdeutscher Rundfunk Electronic Music Studio, Cologne 1953-, Artistic Dir. 1963-; first composition of purely electronic music (Studie 1 for sinewaves) 1953; Co-editor Die Reihe (Universal Edn.) 1955-58; Dozent for composition and analysis at the Int. Summer School for New Music, Darmstadt 1957-; concert tours throughout the world since 1958; Founder, composition classes in Kölner Kurse für Neue Musik 1963-68; founder of ensemble for electronic live music 1964; exclusive contract with Deutsche Grammophon for interpretation of own works 1968-; Int. World Fair Expo 70, Osaka; Prof. for Composition Staatliche Hochschule für Musik, Cologne 1971-. *Compositions:* Frühe Noten 1950, Kreuzspiel 1951, Formel (orchestra) 1951, Schlagtrio 1952, Spiel (orchestra) 1952, Punkte (orchestra) 1952 (new version 1962), Klavierstücke I-IV 1952-53, Kontra-Punkte 1952-53, Elektronische Studien 1953-54, Klavierstücke V-X 1954-61, Zeitmasze 1955-56, Gruppen (three orchestras) 1955-57, Klavierstück XI 1956, Gesang der Jünglinge (electronic) 1955-56, Zyklus (percussionist) 1959, Refrain (three players) 1959 Carré (four orchestras and chorus) 1959-60, Kontakte (piano, percussion and electronic sounds) 1959-60, Originale (musical theatre) 1961, Momente (soprano, four choral groups and 13 instrumentalists) 1962-64, Plus Minus 1963, Mikrophonie 1 (tam-tam, two microphones, two filters and regulator) 1964, Mixtur (orchestra, four sine-generators and ring-modulators) 1964, Mikrophonie II (choir, Hammond organ and ring-modulator) 1965, Stop (orchestra) 1965, Telemusik (electronic music) 1966, Solo (melodic instrument and feed-back) 1966, Adieu (wind quintet) 1966, Hymnen (electronic and concrete music with soloists) 1966-67, Prozession (tam-tam, viola, electronium, piano, two filters and regulator) 1967, Ensemble (Prozessplanung) 1967, Kurzwellen (six players) 1968, Stimmung (six vocalists) 1968, Aus den sieben Tagen 1968, Musik für ein Haus (Prozessplannung) 1968, Spiral (soloist) 1968, Fresco (four orchestral groups) 1969, Hymnen Dritte Region (hymns with orchestra) 1969, Pole (two players/singers) 1970, Expo (three players/singers) 1970, Mantra (two pianists) 1970, Sternklang (park music for 5 groups instrumentalists/singers), Trans (orchestra) 1971, Für Kommende Zeiten (17 texts of intuitive music) 1968-70, Alphabet 1972, "Am Himmel wandre ich" (12 Indian songs) 1972, Ylem (19 or [illegible] players) 1972, Atmen gibt das Leben (choir-opera) 1974, Inori (Adorations for soloists and orchestra) 1973-74, Herbstmusik (4 players) 1974, Musik im Bauch (percussion and music boxes) 1975, Tierkreis (12 melodies of the star-signs) 1975, Harlekin (clarinet) 1975, Sirius (electronic music and trumpet, bass-clarinet, soprano and bass) 1975-77, Amour (5 pieces for clarinet) 1976, Jubiläum (for orchestra) 1977, In Freundschaft (clarinet) 1977, Der Jahreslauf (for dancers and orchestra) (Szene [illegible] Licht) 1977, Michaels Reise um die Erde (trumpet and orchestra) (Szene aus Licht) 1978, Mondeva (tenor and basset horn) (Szene aus Licht) 1978; over 70 records. *Publications:* Texte (4 vols.) 1963-64, 1971, 1978. *Address:* Studio für Elektronische Musik, Westdeutscher Rundfunk, Wallrafplaz 5, Cologne, Federal Republic of Germany.

STOCKWOOD, Rt. Rev. (Arthur) Mervyn, M.A.; British ecclesiastic; b. 27 May 1913; s. of late Arthur and Beatrice Ethel Stockwood; ed. Kelly Coll., Christ's Coll. and Westcott House, Cambridge; ordained 1936; Curate, St. Matthew Moorfields, Bristol, and Blundell's School Missioner 1936-41, Vicar 1941-45; Hon. Canon, Bristol 1953-55; Vicar, St. Mary the Great, Cambridge 1955-59; Bishop of Southwark 1959-; Church Comm. 1972-; Labour [illegible] Bristol City Council 1946-55, Cambridge City Council 1956-59; Freedom of City of London 1976; Hon. D.D. (Lambeth Univ.), D.Litt. (Sussex Univ.), D.D. (Bucharest Univ.) 1977. *Publications:* There is [illegible] Tide 1946, Whom they Pierced 1948, I Went to Moscow 1955, The Faith Today 1959, Cambridge Sermons 1959, Bishop's Journal 1965, The Cross and the Sickle 1978. *Leisure interests:* fishing, walking. *Address:* Bishop's House, 38 Tooting Bec Gardens, London, S.W.16, England.

STOECKER, Dietrich, DR.JUR.; German lawyer and diplomatist; b. 11 Nov. 1915, Cologne; [illegible] of Otto Stoecker and Ina Rottenburg; m. Ingrid Bergemann 1942; four s.; ed. Marburg/Lahn and Lausanne Univs.; Asst. Judge Hanseatic Court of Appeals, Hamburg 1946-48; Official, High Court for Combined Econ. Area, Cologne 1948-49; Official, Fed. Ministry of Justice 1949-52; Diplomatic Service 1953-; Counsellor, German Embassy, Luxembourg 1954-57, Vatican 1957-61; Consul-Gen., Gothenburg 1961-68; Head Admin. Dept., Foreign Office, Berlin 1968-72; Amb. to Sweden 1972-76, to Bulgaria 1976-. *Publications:* Kommentar zum Gesetz über Ordnungswidrigkeiten 1952, Das Deutsche Obergericht für das Vereinigte Wirtschaftsgebiet in Geddächtnisschrift für Herbert Ruscheweyh 1966. *Leisure interests:* numismatics, philately. *Address:* Embassy of Federal Republic of Germany, ul. Henri Barbusse 5-7, Sofia, Bulgaria. *Telephone:* 772127.

STOESSEL, Walter John, Jr.; American diplomatist; b. 24 Jan. 1920, Kansas; s. of Walter John and Katherine (Haston) Stoessel; m. Mary Ann Ferrandou 1946; three d.; ed. Lausanne, Stanford Univs., Russian Inst. of Columbia Univ., Harvard Center for Int. Affairs; joined U.S. Foreign Service 1942, served in Caracas, Moscow, Bad-Nauheim; Officer in charge of U.S.S.R. and E. European Affairs, Dept. of State 1952-56; Special Asst. to Presidential Adviser on Foreign Affairs 1956-61; Political Adviser, SHAPE, Paris 1961-63; Minister-Counsellor, Moscow 1963-65; Deputy Asst. Sec. for European Affairs, Dept. of State 1965-68; Amb. to Poland 1968-72; Asst. Sec. for European Affairs 1972-73; Amb. to U.S.S.R. 1973-76, to Fed. Repub. of Germany Sept. 1976-. *Leisure interests:* tennis, skiing, swimming, painting. *Address:* American Embassy, Mehlem Aue., 5300 Bonn-Bad Godesburg, Federal Republic of Germany; and A.P.O. New York 09080, U.S.A.

STOKES, Baron (Life Peer), cr. 1969, of Leyland in the County Palatine of Lancaster; **Donald Gresham Stokes,** Kt., T.D., D.L., F.ENG., F.I.MECH.E.; British engineer and business executive; b. 22 March 1914, London; s. of Harry Potts Stokes; m. Laura Lamb 1939; one s.; ed. Blundell's School and Harris Inst. of Technology, Preston; student engineer Leyland Motors 1930-33; Technical Asst. 1933-39; mil. service 1939-45; Export Man. Leyland Motors 1946-50, Gen. Sales and Service Man. 1950, Dir. 1954; Man. Dir. Leyland Motors Corpn. 1963, Chair. 1967; Man. Dir. British Leyland Motors Corpn. 1968-73, Chair 1968-75, Chief Exec. 1973-75, Pres. British Leyland Ltd. 1975-(80), (Consultant 1980-); fmr. Chair. British Leyland U.K. Ltd., NV Leyland Industries Belgium S.A., NV British Leyland (Belgium) S.A., British Leyland Motors Inc. U.S.A.; fmr. Dir. British Leyland Motor Corpn. of Australia Ltd., Leyland Motor Corpn. of South Africa Ltd., N.Z. Motor Corpn., Ashok Leyland Ltd. India, Ennore Foundries Ltd. India, British Leyland Motors Canada Inc., Automóviles de Turismo Hispano Ingleses S.A., Metalúrgica de Santa Ana, British Leyland France S.A., Leyland Motor Corpn. (Malawi) Ltd., Nat. Westminster Bank Ltd. 1969-; British Arabian Advisory Co. Ltd. 1977-; Vice-Pres. Empresa Nacional de Auto-camiones S.A. (Spain) 1969-73; [illegible] Council of Soc. of Motor Manufacturers and Traders 1953, Vice-Pres. 1961, Pres. 1962, Deputy Pres. 1963; [illegible] Worshipful Co. of Carmen 1964, North West Econ. Planning Council 1967-70, E.D.C. for the Motor Mfg. Industry 1967, Nat. Advisory Council for the Motor Mfg. Industry 1967; Vice-Pres. Eng. Employers Fed. 1967-75, Inst. of Motor Industry 1967-; Vice-Pres. Univ. of Manchester Inst. of Science and Tech. 1968, Pres. 1972; Deputy Lieut. for the Lancashire County Palatine 1968-; Deputy Chair. Ind. Reorganization Corpn. 1968-71; Vice-Pres. Inst. of Mechanical Engineers 1971, Pres. 1972; Hon. Fellow, Keble Coll., Oxford 1968; Fellow, Inst. of Road Transport Engineers 1968; Officer, Ordre de La Couronne (Belgium); Commdr. Ordre de Léopold II (Belgium) 1972; Hon. LL.D. (Lancaster Univ.) Hon. D.Tech. (Loughborough), Hon. D.Sc. (Southampton and Salford); U.K. Marketing Award 1964. *Leisure interest:* yachting. *Address:* Flat 6, 7 Egerton Place, London, SW3 2EF, England.

STOKES, Colin, B.S.; American industrial executive; b. 4 April 1914, Winston-Salem, N.C.; s. of Henry Straughan and Eloise Brown Stokes; m. Mary Louise Siewers 1943; two s. one d.; ed. Univ. of North Carolina; joined R. J. Reynolds Tobacco Co. 1935, Supt. of Mfg. 1956-59, Dir. 1957-; Exec. Vice-Pres. 1961-70, Chair. of Board 1970-72; Dir. R. J. Reynolds Industries Inc. 1970-, Pres. 1972-73, Chair. and Chief Exec. Officer 1973-. *Address:* R. J. Reynolds Industries Inc., Winston-Salem, N.C. 27102; 2701 Reynolds Drive, Winston-Salem, N.C. 27104, U.S.A. (Home). *Telephone:* (919) 748-2366 (Office); (919) 722-4792 (Home).

STOLTENBERG, Gerhard, DR.PHIL.; German scientist and politician; b. 30 Sept. 1928, Kiel; ed. Grammar School, Bad Oldesloe, and Kiel Univ.; Scientific Asst., Kiel Univ. 1954-60, Lecturer 1960-65; Deputy Chair. CDU, Schleswig-Holstein 1955, Chair. 1971-; Fed. Chair. "Junge Union" 1955-61; mem. Schleswig-Holstein Parl. 1954-57, 1971-; mem. Bundestag 1957-71; Fed. Minister for Scientific Research 1965-69; Fed. Vice-Chair. CDU 1969-; Minister-President Land Schleswig-Holstein 1971-; mem. Board of Man. Fried. Krupp, Essen 1965, 1969-70; Grosses Bundesverdienstkreuz. *Address:* 23 Kiel, Landeshaus, Federal Republic of Germany. *Telephone:* 0431-5961 (2000).

STONE, Dewey D.; American businessman; b. 31 Aug. 1900; ed. Brockton Grammar School, Brockton High School and Coll. of Business Admin., Boston Univ.; Sergeant-Major, American Army, First World War; Chair. Harodite Finishing Co., N. Dighton, Mass. 1952-; Chair. Board of Govs., Weizmann Inst. of Science, Rehovoth, Israel 1945-; Dir. Converse Rubber Co., Crosby Valve & Gage Co., Ashton Valve Co., T. Toonan Sons Co., Leumi Financial Corpn. and foreign companies; New England Chair. United Jewish Appeal 1947-(Nat. Co-Chair. 1955-), Nat. Chair. United Israel Appeal 1954-; official of many Israeli orgs. in America and Israel; Hon. D.Hum. (Boston Univ.), Hon. LL.D. (Stonehill Coll.); Hon. Fellow, Weizmann Inst. of Science. *Address:* North Dighton, Mass. 02715 (Office); 53 Arlington Street, Brockton, Mass. 02109 U.S.A. (Home).

STONE, Donald Crawford, LL.D.; American government official and educator; b. 17 June 1903, Cleveland, Ohio; s. of Alfred W. and Mary R. Stone; m. Alice Kathryn Biermann 1928; one s. three d.; ed. Colgate, Syracuse, Cincinnati and Columbia Univs.; Staff mem. Cincinnati Bureau of Governmental Research 1927-28, Inst. of Public Administration New York 1929-30; Dir. of Research, Int. City Management Assn., Chicago 1930-33; Exec. Dir., Public Administration Service, Chicago 1933-39; Asst. Dir. Bureau of the Budget, Exec. Office of the Pres., Washington 1939-48; Dir. of Admin., E.C.A., Washington D.C. 1948-51, M.S.A. 1951-53; Pres. Springfield Coll. 1953-57; Adviser to U.S. Del., to UN Conf., San Francisco 1945, to U.S. Del. to UNESCO Organizing Conf., London 1945, to Gen. Assembly of UN London 1946, and New York 1947, to U.S. Rep. to Economic and Social Council New York 1946; U.S. Rep. to UNESCO Preparatory Commission, London 1946; mem. UN Standing Cttee. on Admin. and Budgetary Affairs 1946-48; Dean, Graduate School of Public and Int. Affairs, Pittsburgh Univ. 1957-69, now Prof. School of Urban and Public Affairs, Carnegie-Mellon Univ., Advisory assignments or studies in approx. 25 countries; Consultants to UN 1970-74; Chair. Cttee. on Leaders and Specialists and mem. Comm. on Educ. and Int Affairs, American Council on Educ. 1955-61; Chair. Int. Assn. of Schools and Insts. of Admin. 1961-, Cttee. on Int. Admin., Nat. Acad. of Public Admin. 1974-; Chair. American Consortium for Int. Public Admin. *Publications:* numerous articles, monographs and books on government, international development and education. *Leisure interests:* sports, music, religious activities. *Address:* School of Urban and Public Affairs, Carnegie-Mellon Univ., Pittsburgh, Pa. 15213, U.S.A. *Telephone:* 412-578-2179.

STONE, Rear-Admiral Ellery Wheeler, F.R.S.A.; American communications executive and naval officer (Reserve); b. 14 Jan. 1894, Oakland, Calif.; s. of Edgar Parkman Stone and Florence Pickering Weeks; m. Heidi Margareta Bertel 1963; one s. (deceased) four d. (by previous marriages); ed. Univ. of California; U.S. radio inspector 1914-17; Lieut. U.S. Naval Reserve and district Communications supt. 1917-19; Pres. Fed. Telegraph Co. 1924-31; operating Vice-Pres. and Dir. Mackay Radio and Telegraph Co. 1931-37; Vice-Pres. All-American Cables and Radio Inc. 1937-38; Pres. and Dir. Postal Telegraph Inc. and Postal Telegraph-Cable Co. 1942-; Pres. and Dir. Postal Telegraph Sales Corpn. 1940; Commdr. U.S. Naval Reserve 1939, Capt. 1942, Commodore 1943, Rear-Admiral 1943; mem. Tech. Cttees. Defence Communications Board 1940; Chief Commr. Allied Comm. for Italy 1944-47; Chief of Italian Mil. Affairs Section of A.F.H.Q. 1947; Vice-Pres. and Dir. Int. Telephone and Telegraph Corpn.; Chair. of Board American Cable and Radio Corpn., Commercial Cable Co., Mackay Radio & Tel. Co., All-American Cables & Radio Inc.; Pres. ITT Europe Inc., Brussels 1961-65, Vice-Chair. 1965-69; awarded U.S. Army and U.S. Navy D.S.M.s; K.B.E.; Grand Cross St. Maurice and St. Lazarus and Grand Officer Crown of Italy (Italy); Grand Cross of San Marino; Cross of Merit, 1st Class, with Crown, Knights of Malta; Officier, Légion d'honneur; Commdr. Order of Leopold II; Commdr. 1st Grade Order of Isabel la Católica (Spain); Campaign Medals World Wars I and II; Fellow, U.S. Inst. of Electric and Electronics Engineers and U.S. Naval Inst. *Publication:* Elements of Radio Communication 1926. *Leisure interests:* motor cars, hi-fi. *Address:* 491 River Road, Nutley, N.J. 07110, U.S.A. *Telephone:* 201-667-4400.

STONE, Irving, CAND. PH.D.; American writer; b. 14 July 1903, San Francisco, Calif.; s. of Charles and Pauline (Rosenberg) Tennenbaum; m. Jean Factor 1934; one s. one d.; ed. Univ. of California, Univ. of Southern California; Teaching Fellow, Univ. of Southern California 1923-24, Univ. of California 1924-26; Prof. of Creative Writing, Indiana 1948, Washington 1961, Univ. of Southern California 1966; Lecturer California State Colleges 1966; book reviews, magazine contributions; mem. numerous cultural, literary socs.; numerous awards; founder Irving and Jean Stone prizes for biog. and historical novels 1968-; Hon. D.Lit. (Univ. of S. Calif., Coe Coll., Calif. State Colls.), Hon. LL.D. (Univ. of Calif. at Berkeley). *Publications:* Pageant of Youth 1933, Lust for Life 1934, Dear Theo 1937, Sailor on Horseback 1938, False Witness 1940, Clarence Darrow for the Defense 1941, They also Ran 1943, Immortal Wife 1944, Adversary in the House 1947, Earl Warren 1948, The Passionate Journey 1949, We Speak for Ourselves 1950, The President's Lady 1951, Love is Eternal 1954, Men to Match My Mountains 1956, The Biographical Novel 1957, The Agony and the Ecstasy 1961, Lincoln, A Contemporary Portrait (Editor) 1962, I, Michelangelo, Sculptor 1962, The Irving Stone Reader 1963, Story of Michelangelo's Pietà 1964, The Great Adventures of Michelangelo 1965, Those Who Love 1965, There Was Light: Autobiography of University, Berkeley, 1868-1968 1970, The Passions of the Mind 1971, Clarence Darrow—A One Man Play 1974, Mary Todd Lincoln: A Final Judgment? 1974, The Greek Treasure 1975, Irving Stone's Jack London, A Biography, with 28 Jack London Stories 1977. *Address:* c/o Doubleday & Co. Inc., 501 Franklin Avenue, Garden City, New York, N.Y. 11530, U.S.A.

STONE, John O., B.SC., B.A.; Australian financial executive; b. 31 Jan. 1929, Perth; s. of Horace and Eva Stone (née Hunt); m. Nancy Hardwick 1954; four s. one d.; ed. Univ. of Western Australia and New Coll., Oxford; Asst. to Australian Treasury Rep. in London 1954-56, Australian Treasury Rep. in London 1958-61; in Research and Information Div., Gen. Financial and Econ. Policy Branch, Dept. of Treasury, Canberra 1956-57, in Home Finance Div. 1961-62, Asst. Sec. Econ. and Financial Surveys Div. 1962-66; Exec. Dir. for Australia, New Zealand and South Africa, Int. Monetary Fund (IMF) and Int. Bank for Reconstruction and Devt. (IBRD—World Bank) 1967-70; First Asst. Sec., Revenue, Loans and Investment Div., Treasury 1971; Sec. Australian Loan Council, Sec. Australian Nat. Debt Comm. 1971; Deputy Sec. (Econ.) Treasury 1971-76, Deputy Sec. Treasury 1976-78, Sec. 1979; mem. Australian Dels. to OECD and IMF annual meetings, etc. *Leisure interests:* reading, tennis, wine and food. *Address:* The Treasury, Canberra, A.C.T. 2600, Australia. *Telephone:* Canberra 63 2650.

STONE, Sir (John) Richard (Nicholas), Kt., C.B.E.; British economist; b. 30 Aug. 1913; ed. Westminster School and Gonville and Caius Coll., Cambridge; with C. E. Heath and Co. (Lloyd's Brokers) 1936-39; Ministry of Economic Warfare 1939-40; offices of War Cabinet, Central Statistical Office 1940-45; Dir. Dept. of Applied Economics, Cambridge 1945-55; Leake Prof. of Finance and Accounting, Cambridge 1955-; Fellow, King's Coll., Cambridge 1945, Econometric Soc. (fmr. Pres.); mem. Int. Statistical Inst.; Foreign Hon. mem. American Acad. of Arts and Sciences 1968, American Econ. Assn. 1976; Fellow British Acad. 1956; Hon. Fellow Gonville and Caius Coll., Cambridge 1976; Pres. Royal Econ. Assn. 1978-; Sc.D. 1957, Dr. h.c. (Oslo and Brussels Univ.) 1965, (Geneva Univ.) 1971, (Warwick Univ.) 1975, (Paris) 1977, (Bristol Univ.) 1978. *Publications:* The Role of Measurement in Economics 1951, The Measurement of Consumers' Expenditure and Behaviour in the United Kingdom 1920-1938 Vol. I (with others) 1954, Vol. II (with D. A. Rowe) 1966, Quantity and Price Indexes in National Accounts 1956, Social Accounting and Economic Models (with Giovanna Croft-Murray) 1959, Input-Output and Nat. Accounts 1961, National Income and Expenditure (with Giovanna Stone) 1961, A Programme for Growth (gen. editor, series with others) 1962-74, Mathematics in the Social Sciences and Other Essays 1966, Mathematical Models of the Economy and Other Essays 1970, Demographic Accounting and Model Building 1971. *Address:* 13 Millington Road, Cambridge, England.

STONE, Marshall Harvey, PH.D.; American mathematician and educator; b. 8 April 1903, New York; s. of Harlan Fiske Stone and Agnes Harvey Stone; m. 1st Emmy Portman 1927, 2nd Ravijojla Kostić (née Perendija) 1962; three d. one step d.; ed. Harvard Univ.; Instructor Columbia Univ. 1925-27; Instructor, Harvard Univ. 1927-28, Asst. Prof. 1928-31, Assoc. Prof. 1933-37, Prof. 1937-46; Assoc. Prof., Yale Univ. 1931-33; Andrew MacLeish Distinguished Service Prof., Univ. of Chicago 1946-68, Prof. Emer. 1968-; George David Birkhoff Prof. of Mathematics, Univ. of Mass. 1968-73, Prof. 1973-; Visiting Lecturer many countries; Hon. Prof. of Mathematics, Madurai Univ., India; Hon. Distinguished Prof. Teachers College, Columbia Univ., New York; mem. Nat. Acad. of Sciences, American

Philosophical Soc., Lund Physiographical Soc., Bologna Acad., Explorers Club; Hon. D.Sc. (seven times). *Publications:* Linear Transformations in Hilbert Space and Their Applications to Analysis (American Mathematical Soc.) 1932; numerous papers on mathematics and mathematical education. *Leisure interest:* travel. *Address:* Department of Mathematics, G.R.C. Tower 1524, University of Massachusetts, Amherst, Mass. 01003; 260 Lincoln Avenue, Amherst, Mass. 01002, U.S.A. (Home). *Telephone:* 545-1311 (Office); 549-5409 (Home).

STONE, Sir Richard; (*see* Stone, Sir J. R. N.).

STONEHOUSE, John Thomson, B.SC.(ECON.); British former politician and author; b. 28 July 1925, Southampton; s. of late W. M. Stonehouse and Alderman Mrs. R. M. Stonehouse; m. Barbara J. Smith 1948 (divorced 1977); one s. two d.; ed. Springhill and Tauntons Schools, Southampton and London School of Economics; Asst. to Senior Probation Officer, Southampton 1941-44; R.A.F. pilot and education officer 1944-47; Sec. and Man. to co-operative Socs., Uganda 1952-54; Dir. London Co-operative Soc. 1956-62, Pres. 1962-64; mem. Parl. for Wednesbury 1957-74, for Walsall North 1974-76; Parl. Sec. Ministry of Aviation 1964-66; Parl. Under-Sec. of State for the Colonies 1966-67; Minister of Aviation, subsequently Minister of Technology 1967-68; Postmaster-Gen. 1968-69; Minister of Posts and Telecommunications 1969-70; mem. Privy Council 1968-76; Chair. Export Promotion and Consultancy Service Ltd. 1970, Global Imex Ltd. 1972, British Bangladesh Trust Ltd. 1972; disappeared Nov. 1974; reappeared in Australia Dec. 1974; extradited July 1975; sentenced to seven years' imprisonment on charges alleging fraud, theft and forgery Aug. 1976; released Aug. 1979; resigned from Labour Party, joined English National Party April 1976, resigned ■ M.P. Aug. 1976. *Publications:* Prohibited Immigrant 1960, Gangrene (co-author) 1964, Death of ■■ Idealist 1975, My Trial 1976. *Leisure interests:* music, desmology, reading, chess.

STOPH, Willi; German politician; b. 9 July 1914, Berlin; m.; four c.; worked ■■ ■ mason and foreman bricklayer, later ■■ a technical architect, following extra-mural studies; mem. Communist Party of Germany 1931; Head of Economic Policy Section, Socialist Unity Party (SED) 1948-50; mem. SED Cen. Cttee. 1950-, ■■■ Politburo of SED Cen. Cttee. 1953-; mem. Volkskammer (People's Chamber) 1950-; mem. Council of State 1963-, Deputy Chair. 1964-73, Chair. (Head of State) 1973-76; Minister of the Interior 1952-55; Minister of Nat. Defence (rank of Gen. of Army) 1956-60; Deputy Chair. Council of Ministers 1954-64, Chair. Council of Ministers 1964-73, 1976-; Vaterländischer Verdienstorden in Gold (twice), Order of Lenin and other decorations. *Address:* Kolsterstrasse 47, 102 Berlin, German Democratic Republic.

STOPPARD, Tom, C.B.E., F.R.S.L.; British writer; b. (as Thomas Straussler) 3 July 1937, Zlin, Czechoslovakia; s. of Dr. Eugene and Martha Straussler; stepson of Kenneth Stoppard; m. 1st Jose Ingle 1965 (divorced 1972), two s.; m. 2nd Dr. Miriam Moore-Robinson 1972, two s.; ed. Pocklington Grammar School, Yorks.; Journalist, Bristol 1954-60; free-lance journalist, London 1960-64; John Whiting Award, Arts Council 1967, New York Drama Critics Best Play Award 1968, Antoinette Perry Award 1968, 1976, Evening Standard Awards 1967, 1972, 1974; Italia Prize (radio drama) 1968; Hon. M.Litt. (Bristol Univ.). *Publications:* plays: Rosencrantz and Guildenstern are Dead 1967, The Real Inspector Hound 1968, Enter a Free Man 1968, After Magritte 1970, Dogg's Our Pet 1972, Jumpers 1972, Travesties 1975, Dirty Linen 1976, New-Found-Land 1976, Every Good Boy Deserves Favour (with music by André Previn, *q.v.*) 1978, Night and Day 1978; radio plays: The Dissolution of Dominic Boot 1964, M is for Moon among other things 1964, Albert's Bridge 1967, If You're Glad I'll be Frank 1968, Where Are They Now? 1970, Artist Descending a Staircase 1972; short stories: Introduction 2 1963; novel: Lord Malquist and Mr. Moon 1966; screenplays: The Romantic Englishwoman (co-author) 1975, Despair 1977; television play: Professional Foul 1977. *Address:* c/o Fraser & Dunlop, 91 Regent Street, London, W.1; Fernleigh, Wood Lane, Iver Heath, Bucks., England (Home).

STOPPER, Edwin, DR.ECON.SC.; Swiss banker; b. 14 Aug. 1912, Winterthur; ed. Univs. of St. Gall, London, Paris and Geneva; fmrly. in export trade and banking; Asst. to Dir. Commercial Dept., Swiss Fed. Ministry for Econ. Affairs 1939-45; Sec. Central Office of Swiss Assn. for Trade and Industry, Zürich; Acting Man. and Deputy to Central Man. for Finance, Nestlé Alimentana Ltd., Vevey 1952-53; Del. for Trade Agreements, Commercial Dept. of Fed. Ministry for Econ. Affairs 1954-60, rank of Minister 1955-60; Dir. Swiss Fed. Finance Dept. 1960-61; Dir. Swiss Fed. Commercial Dept. (rank of Amb.) 1961-66; Pres. Board of Gen. Management and Chief of Dept. I, Swiss Nat. Bank 1966-74; Chair. Bank Leu Ltd., Zurich; mem. Board of Dirs. of other Swiss and foreign companies; Hon. Lecturer in Econs., Basel Univ. *Address:* Winkelwiese 6, 8001 Zurich, Switzerland.

STOREY, David Malcolm; British author and playwright, b. 13 July 1933, Wakefield, Yorkshire; m. Barbara Hamilton 1956; four c.; ed. Wakefield Grammar School, Wakefield Coll. of Art and Slade School of Art. *Publications:* novels: This Sporting Life (MacMillan Award) 1960, Flight into Camden (John Llewellyn Rhys Memorial Prize 1961, Somerset Maughan Award 1963) 1960, Radcliffe 1963, Pasmore (Faber Memorial Prize 1972) 1972, A Temporary Life 1973, Saville (Booker Prize 1976) 1976, plays: The Restoration of Arnold Middleton (Evening Standard Award 1967), In Celebration 1969 (also film), The Contractor (New York Critics' Prize 1974) 1969, Home (Evening Standard Award, New York Critics' Prize) 1970, The Changing Room (New York Critics' Prize) 1971, Cromwell 1973, The Farm 1973, Life Class 1974, Night 1976, Mother's Day 1976, Sisters 1978. *Address:* c/o Jonathan Cape Ltd., 30 Bedford Square, London, WC1B 3EL, England.

STOREY, Robert Gerald, B.A.; American lawyer; b. 4 Dec. 1893, Greenville, Tex.; s. of Dr. and Mrs. F. W. Storey; m. 1st Hazel Porter 1917 (died 1962), 2nd Jewel Osborn 1965; ed. Univ. of Texas and Southern Methodist Univ.; Partner Storey, Armstrong & Steger (Dallas) 1934-; Dean Southern Methodist Univ. Law School 1947-59; Pres. Southwestern Legal Foundation 1947-; Asst. Attorney Gen. of Texas 1921-23; Regent Univ. of Texas 1924-30; U.S. Exec. Trial Counsel, Nuremberg Major Axis War Crimes Trials 1945-46; mem. Hoover Comm. 1953-55; Adviser to Govt. of South Korea 1954; Rep. of State Dept. in Far and Middle East 1954-55; Chair. Board of Foreign Scholarships (Int. Education Exchange) 1956-62; Vice-Chair. Civil Rights Comm. 1957-63; Pres. Dallas Bar Assn. 1934, State Bar of Texas 1948-49; American Bar Assn. 1952-53, Inter-American Bar Assn. 1954-56; mem. Int. Bar Assn. 1952-; Vice-Chair. and mem. U.S. Interoceanic Canal Study Comm. 1965-; mem. President's Comm. on Law Enforcement and Improvement in Admin. of Justice; Chair. U.S. World Peace Through Law Center 1966-, Lakewood State Bank; Dir. Southwestern Bell Telephone Co.; Dir. and Gen. Counsel Sabine Royalty Corpn.; 2nd Lieut. in Heavy Artillery during First World War, Col. in Air Corps during Second World War; Gold Medal American Bar Assn. 1956; decorations include Legion of Merit, Medal of Freedom, Légion d'honneur, Bronze Star, Lawyer of the World award from World Peace through Law Center 1964; Democrat. *Publications:* Professional Responsibility 1958, Our Unalienable Rights 1965, The Final Judgment: Pearl Harbour to Nuremberg; numerous articles and reviews. *Leisure interests:* hunting, fishing and travel. *Address:* 4100 Republic Bank Tower, Dallas, Texas 75201, U.S.A. *Telephone:* 748-0211.

STORK, Gilbert, PH.D.; American professor of chemistry; b. 31 Dec. 1921, Brussels, Belgium; s. of Jacques Stork and Simone Weil; m. Winifred Elizabeth Stewart 1944; one s. three d.; ed. Univ. of Wisconsin; Instructor, Harvard Univ. 1946-48, Asst. Prof. 1948; Assoc. Prof., Columbia Univ. 1953-55, Prof. 1955-67, Eugene Higgins Prof. of Chemistry 1967-, Chair. of Dept. 1973-76; Kharasch Visiting Prof. Univ. of Chicago; Distinguished Visiting Prof. Case Inst. of Technology 1966, Univ. of Iowa 1968; Visiting Scholar Fisk Univ. 1957; numerous Lectureships, including Coover Lecturer, Iowa State Univ. 1958, Treat B. Johnson Lecturer Yale Univ. 1964, Karl Pfister Lecturer Mass. Inst. of Tech. 1969; Consulting Editor Advanced Chemistry Series McGraw-Hill 1958-74; mem. Editorial Board, Accounts of Chemical Research 1968, Organometallics in Chemical Synthesis 1970; ■■■ of Visiting Cttee. Chemistry Dept. of Tufts Univ. and of Advisory Council of Chemistry Dept., Princeton Univ. 1965-; Consultant. Nat. Insts. of Health 1967-; invited Plenary Lecturer Int. Union Pure Applied Chem., Kyoto 1963, London 1968, Boston 1971; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Hon. D.Sc. Lawrence Coll.; Award in Pure Chemistry of American Chemical Soc. (A.C.S.) 1957, Baekeland Medal of N. Jersey Section of A.C.S. 1961, Harrison Howe Award 1962, Edward Curtis Franklin Memorial Award of Stanford Univ. 1966, A.C.S. Award in Synthetic Organic Chemistry 1967, Nebraska Award 1973. *Address:* Columbia University, New York, N.Y. 10027 (Office); 459 Next Day Hill Drive, Englewood, N.J. 07631, U.S.A. (Home). *Telephone:* 201-871-4032.

STORTI, Bruno; Italian trade unionist; b. 9 July 1913; fmr. mem. of the directing Cttee. Confederazione Generale Italiana del Lavoro; co-founder Confederazione Italiana Sindicata Lavoratori (C.I.S.L.) 1950, Sec.-Gen. C.I.S.L. 1959-77; Pres. Int. Confed. of Free Trade Unions (ICFTU) 1965-72; mem. Chamber of Deputies 1958-69; mem. Parl. of Europe 1959-68. *Address:* c/o Confederazione Italiana Sindicati Lavoratori, Via Po 21, Rome, Italy.

STORZ, Gerhard, DR.PHIL.; German university professor; b. 19 Aug. 1898, Rottenacker, Württemburg; s. of Otto Storz and Hanna Storz (née Majer); m. Edith Baum 1944; one s. one d.; ed. Humanistisches Gymnasium, Esslingen, and Eberhard-Karls-Universität, Tübingen; actor and producer in various German theatres, particularly Nationaltheater, Mannheim 1923-35; school-teacher 1935-45, Headmaster 1945-58; Minister of Culture, Baden-Württemberg 1958-64; Hon. Prof. Univ. of Tübingen 1964-; Pres. Deutsche Akad. für Sprache und Dichtung, Darmstadt 1966-; Hon. D.Litt. (Middleburg Coll., U.S.A.) 1965; Grosses Bundesverdienstkreuz 1963; Konrad Duden Prize, City of Mannheim 1966; Schiller-Gedächtnis Prize of Baden Württemberg 1971. *Publications:* Umgang mit der Sprache 1937, Das Drama Schillers 1938, Das Wörterbuch des Unmenschen (with Dolf Sternberger and W. E. Süskind) 1945-48, Goethe—Vigilien 1953, Sprache und Dichtung, Versuch einer Poetik 1953, Der Dichter Friedrich Schiller 1959, Figuren und Prospekte 1963, Eduard Mörike 1967, Schwabische Romantik 1967, Der Vers in der Deutschen Dichtung 1970, Heinrich Heines Lyrische Dichtung 1971, Klassik und Romantik in der deutschen Literatur 1972, Im Lauf der Jahre (autobiography) 1973, Sprachanalyse ohne Sprache 1975, Zwischen Amt und Neigung (autobiography) 1976, Capriccios 1978. *Address:* Eugen Hegele Weg 4, 725 Leonberg/Württ., Federal Republic of Germany. *Telephone:* 43496.

STOWE, Leland, M.A.; American journalist; b. 10 Nov. 1899; ed. Wesleyan Univ.; mem. staff Worcester Telegram 1921; Foreign Editor Pathé News 1924; Paris corresp. New York Herald Tribune 1926-35; Pres. Anglo-American Press Club of Paris 1935-35; awarded Pulitzer Prize for best foreign correspondence 1930; reporter in North and South America for New York Herald Tribune 1935-38; war corresp. Chicago Daily News Scandinavia, U.S.S.R. Balkans, Egypt and Far East 1939-42, Europe 1944-45; News Analyst, American Broadcasting Co. 1944-45; Greek Mil. Cross 1945; Lecturer-Writer New York Post Syndicate; Foreign Editor The Reporter Magazine 1948-50; Dir. News and Information Service, Radio Free Europe, Munich 1952-54; Roving Editor The Reader's Digest 1955-; Prof. of Journalism, Univ. of Michigan 1957-70; Hon. D.Litt. (Wesleyan Univ., Hobart Coll.). *Publications:* Nazi Means War 1933, No Other Road to Freedom 1941, They Shall Not Sleep 1944, While Time Remains 1946, Target: You 1949, Conquest by Terror: The Story of Satellite Europe 1952, Crusoe of Lonesome Lake 1957. *Address:* 801 Greehills Drive, Ann Arbor, Mich. 48105, U.S.A.

STØYLEN, Kaare, D.D.; Norwegian ecclesiastic (retd.); b. 3 Oct. 1909, V. Aker; s. of Bernt Støylen and Kamilla Heiberg; m. 1st Agnes Stray 1932 (died 1943), 2nd Honoria Faye 1945; one s. two d.; ed. Univ. of Oslo; Pastor, Norwegian Seamen's Mission, London 1932-35, Oslo 1935-40; Chaplain, Cathedral Church, Bergen 1940-47; Rector, St. Jacob's Church, Bergen 1947; Sec.-Gen. Norwegian Seaman's Mission 1953; Bishop Agder, Kristiansand 1958; Bishop of Oslo 1973-; Commander of North Star (Sweden), Commander with Star of St. Olav (Norway). *Publications:* Peder Palladius Visitasbook 1945, Johan Nordahl Brun 1945, Claus Frimann 1955, Arv og Ansvar 1958. *Leisure interest:* music. *Address:* Holteveg 19 F, 5046 Rådal, Bergen, Norway.

STRADLING, Rt. Rev. Leslie Edward, M.A., D.C.L.; British ecclesiastic (retd.); b. 11 Feb. 1908; ed. Oxford Univ., Westcott House, Cambridge; Curate in London 1933-38, Vicar 1938-45; Bishop of Masasi 1945-52, of S.W. Tanganyika 1952-61, of Johannesburg, South Africa 1961-74. *Publications:* A Bishop on Safari 1960, The Acts through Modern Eyes 1963, An Open Door 1966, A Bishop at Prayer 1971, Praying Now 1976, Praying the Psalms 1977. *Address:* 197 Main Road, Kalk Bay, Cape, South Africa 7975. *Telephone:* 8-5588.

STRÄNG, Gunnar Georg Emmanuel; Swedish politician; b. 23 Dec. 1906; ed. Stockholm; labourer 1921-27; rep. on Workers' Assen. 1927-32; official, T.U.C.; Chair. Agricultural Workers' Union; Minister without portfolio 1945-47; Minister of Supply 1947; Minister of Agriculture 1948-51; Minister of Social Affairs 1951-55; Minister of Finance 1955-76; Social Democratic Labour. *Address:* c/o Finansdepartementet, Stockholm, Sweden.

STRANSKI, Iwan N., DR. PHIL.; German professor of chemistry; b. 2 Jan. 1897, Sofia, Bulgaria; s. of Nikola Stranski and Maria (née Krohn); m. 1st Martha Pötschke 1926 (died 1974), 2nd Stóika Dimitrova 1977; ed. Gymnasium, Sofia and Univs. of Vienna, Sofia and Berlin; Dozent, Sofia 1926; Asst. Prof., Univ. of Sofia until 1937, Prof. 1937-44; Scientific mem. Kaiser-Wilhelm-Inst. for Physical Chem., Berlin-Dahlem 1944-, later Fritz-Haber-Inst. of Max-Planck-Gesellschaft; Prof. and Dir. Max-Volmer-Inst. of Physical Chem., Tech. Univ., Berlin 1945-63, Emer. 1963-; Hon. Prof., Free Univ. of Berlin 1949-; Deputy Dir. Fritz-Haber-Inst. of Max-Planck-Gesellschaft 1953-67; Dir. of Dept. of Physical Chem. 1954-67; mem. Bavarian Acad. of Sciences, German Leopoldina Acad., Halle; Corresp. mem. Göttingen Acad. of Sciences, New York Acad. of Science; Foreign mem. Royal Swedish Soc. of Science and Literature, Bulgarian Acad. of Sciences; Hon. mem. German Minerological Soc.; several hon. degrees; Galvani Medal, Univ. of Bologna 1938; Silver Hoffman Medal, German Chemical Soc. 1939; Kyrillus Methodius Prize, Bulgarian Acad. of Sciences 1940, 1970; Carl-Lueg-Denkmünze des Vereins Deutscher Eisenhüttenleute; Grosses Bundesverdienstkreuz and decorations from Bulgaria and Poland. *Publications:* Numerous publs. on growth of crystals, problems of condensation and evaporation, formation of stalactites, etc. *Address:* 1 Berlin 33-Dahlem, Faradayweg 8, Federal Republic of Germany. *Telephone:* 8324964.

STRASBERG, Lee; American theatrical director; b. 17 Nov. 1901; emigrated to U.S. from Austria 1909; first directed and acted New York 1925, becoming professional 1925; Actor and Asst. Stage Man. with Theatre Guild 1925; founded Group Theatre New York 1930 and directed many productions including House of Connelly, Night over Taos, Success Story, Men in White, Gold Eagle Guy, Johnny Johnson; directed All the Living, Clash by Night, Fifth Column, Skipper next to God, The Big Knife; Artistic Dir. Actors Studio, N.Y. 1948-, Actors Studio Theatre Inc. 1963-66, Lee Strasberg Theatre Inst., New York and Los Angeles; film debut The Godfather, Part II 1975 (Acad. Award Nomination); lecturer on the theatre at various univs.; Pulitzer Prize for Men in White; Kelcey Allen Award 1961; Centennial Gold Medal Award for Excellence in Dramatic arts, Boston Coll. 1963. *Address:* 135 Central Park West, New York, N.Y. 10023, U.S.A.

STRASSER, Daniel Charles Joachim; French international civil servant; b. 10 June 1929, Paris; s. of Charles and Renée Strasser; m. Princess Anneliese Radziwill 1963; one s.; ed. Univ. of Paris; mem. Cabinet of Gen. Sec. of French Govt. 1953-58; mem. Gen. Secr. Comm. of European Communities 1958-59, Asst. Dir.-Gen., Personnel and Admin. 1959-63, Dir. for Admin. 1963-70, for Personnel 1970-73, for Budgets 1973-77, Dir.-Gen. for Budgets 1977-; Lauréat de l'Institut de France. *Publications:* Réalités et promesses sahariennes 1956, Les Finances de l'Europe 1975 (English trans. 1977). *Leisure interest:* photography. *Address:* 167 avenue Montjoie, Brussels 1180, Belguim. *Telephone:* 344 07 01.

STRASSMAN, Fritz, DR.ING.; German chemist; b. 22 Feb. 1902, Boppard; ed. Oberrealschule an der Scharnhorststrasse, Düsseldorf, Technische Hochschule, Hanover, and Kaiser Wilhelm Institut für Chemie, Berlin-Dahlem. Asst. Inst. for Physical Chemistry, Technische Hochschule, Hanover 1929; scholar, Kaiser Wilhelm Inst. for Chemistry, Berlin-Dahlem 1929; worked with Prof. O. Hahn and L. Meitner, Kaiser Wilhelm Inst for Chemistry, Berlin (discovering nuclear fission 1938); Head of Chemistry Dept., Kaiser Wilhelm Inst. for Chemistry, Tailfingen, Mainz (Max-Planck-Institut) 1946-53; Prof. and Dir. Inst. of Inorganic Chemistry and Nuclear Chemistry, Univ. of Mainz 1946-70, Emer. Prof. 1970-; Enrico Fermi Prize 1966; Hon. Citizen of Mainz 1972. *Address:* 65 Mainz Universität, Johann Friedrich von Pfeifferweg 6, Federal Republic of Germany. *Telephone:* 31919.

STRATOS, Christoforos; Greek politician; b. 1924, Athens; m. Sofia C. Katsambas; two s. one d.; ed. Univ. of Athens; Vice-Pres. Social Security Foundation; Vice-Pres. Fed. of Greek Industries 1955-57; Minister of Educ. 1961, 1963, of Transport 1964, of Interior 1966; arrested Dec. 1967, May 1973; Minister of Public Works 1974-77, of Interior 1977-; Commdr. Order of the Phoenix, Nat. Resistance Medal, Knight Commdr. Order of Orthodox Crusaders of Holy Sepulchre. *Publications:* The Greek Problem 1958, The Free Man in the Twentieth Century 1960, Man's Position in Contemporary Society 1961, The Administration: Its New Duties and Sacrifices 1961, The Economy and the State 1961, The National Consciousness and Reassurance of the Citizens 1961, Greece and Europe 1961, Youth and Greek Development 1962, National Dangers and Policy on National Foundations 1966. *Address:* Ministry of the Interior, Athens, Greece.

STRATTON, Julius A., SC.D., S.M., S.B.; American physicist; b. 18 May 1901, Seattle, Wash.; s. of Julius and Laura Stratton; m. Catharine Coffman 1935; three d.; ed. Univ. of Washington, Massachusetts Inst. of Technology, Eidgenössische Technische Hochschule, Zürich; with M.I.T. 1924-; Asst. Prof. Dept. of Electrical Engineering 1928-31, Asst. Prof. of Physics 1931-35, Assoc. Prof. 1935-41, Prof. 1941-51, Dir. Research Laboratory of Electronics 1945-49, Provost, M.I.T. 1949-56, Vice-Pres. 1951-56, Chancellor 1956-59, Acting Pres. 1957-59, Pres. 1959-66, Pres. Emer. 1966-; Chair. of Board, The Ford Foundation Jan. 1966-71; Trustee, Boston Museum of Science; Chair. Comm. on Marine Science, Engineering and Resources 1967-69; Dir. Charles Stark Draper

Lab.; mem. Nat. Advisory Cttee. on Oceans and Atmosphere 1971-73; numerous hon. degrees and awards and decorations. *Publications:* Electromagnetic Theory 1941, Science and the Educated Man 1966, also numerous papers. *Address:* Massachusetts Institute of Technology, Cambridge, Mass. 02139; 100 Memorial Drive, Cambridge, Mass. 02142, U.S.A. (Home).

STRATTON, Richard James, C.M.G. M.A.; British diplomatist; b. 16 July 1924, London; s. of William Henry and Ciceley Muriel Stratton; ed. The King's School, Rochester, Merton Coll., Oxford; joined Foreign Service 1947; Private Sec. to Minister without Portfolio, Foreign Office 1963-64, to Minister of State for Foreign Affairs 1964-66; Counsellor and Head of Chancery, British High Comm., Rawalpindi, Pakistan 1966-69; Imperial Defence Coll. 1970; Head UN (Political) Dept., Foreign and Commonwealth Office 1971-72, Asst. under Sec. of State 1977-; Political Adviser to the Gov. of Hong Kong 1972-74; Amb. to Zaire and Congo 1974-77, to Burundi 1975-77, to Rwanda 1977. *Leisure interests:* theatre, bridge. *Address:* c/o Foreign and Commonwealth Office, King Charles Street, London SW1A 2AH England. *Telephone:* 01-233 5986.

STRAUB, F. Bruno; Hungarian biochemist; b. 1914. University Prof.; Vice-Pres. Nat. Peace Council 1958-62; mem. Hungarian Acad. of Sciences, Vice-Pres. 1967-72; Dir. Biology Centre of Hungarian Acad. of Sciences 1970-78; Pres. Nat. Council for Environment and Nature Protection 1978; Dir. Inst. of Enzymology 1979-; mem. Board of Govs. Int. Atomic Energy Agency (IAEA) 1969-71, Vice-Chair Safeguards Cttee. 1970-71; work mainly concerns studies on muscle proteins, respiration and enzmology; Vice-Pres. Int. Council of Scientific Unions (ICSU) 1974-76, Pres. 1976-78; foreign mem. Polish Acad. of Sciences, G.D.R. Acad of Sciences; Kossuth Prize 1948, 1958; Banner Order of Hungary, 2nd degree 1974; Dr. h.c. (Lublin Univ.), (Humboldt Univ. Berlin) 1975. *Publications:* Inorganic and Analytical Chemistry 1950, Organic Chemistry 1952, Biochemistry 1958. *Address:* Inst. of Enzymology, Biological Research Centre, Hungarian Academy of Sciences, H-1113 Budapest; Enrodi Sándor u. 18/a, H-1026 Budapest II, Hungary (Home). *Telephone:* 668-858 (Office); 353-353 (Home).

STRAUB, Robert W., M.S.; American politician; b. 6 May 1920, San Francisco; ed. Dartmouth Univ.; mem. Oregon State Senate 1959; State Treasurer 1964-72; Gov. of Oregon 1975-79; Democrat. *Address:* c/o State Capitol, Salem, Oregon, U.S.A.

STRAUS, Jack I., B.A.; American merchant; b. 13 Jan. 1900, New York; s. of Jesse I. and Irma (née Nathan) Straus; m. Virginia Megear 1975; one s. two d.; ed. Harvard Coll.; entered R.H. Macy & Co. Inc. 1921, Vice-Pres. 1933-39, Acting Pres. 1939-40, Pres. 1940-56, Chair. 1956-68, Chair. of Exec. Cttee. 1968-76, Hon. Chair. and Dir. Emer.; mem. Board of Trustees, Greenwich Savings Bank; fmr. mem Board of Overseers Harvard Coll.; fmr. Dir. L.I. Railroad, Mutual Broadcasting System Inc., Gen. Teleradio Inc., Safeway Stores Inc.; Hon. Dir. Greater New York Fund; fmr. Dir. Fidelity Union Trust Co., Continental Can Co., First Empire Bank New York, Econ. Devt. Council of New York; Dir. United Fund of Greater New York; Chair of the Board, Roosevelt Hosp. 1965-74, Chair of the Advisory Board of Trustees 1975-, Chair. of the Building Cttee. 1974-; fmr. Public Gov., N.Y. Stock Exchange; mem. Nat. Public Advisory Cttee. on Regional Economic Devt. 1970; Hon. Fellowship, American Coll. of Hosp. Administrators 1968; Officer Order of Léopold II (Belgium) 1951; Chevalier de la Légion d'honneur (France) 1951; Commdr., Order of Merit of the Italian Republic 1969; Star of Italian Solidarity 1952; Hon. LL.D. (Adelphi Coll.) 1955; Hon. Dr. Comm. Sc. (New York Univ.) 1958. *Address:* R.H. Macy & Co., Inc., 151 West 34th Street, New York, N.Y. 10001, (Office); 19 East 72nd Street, New York, N.Y. 10021, U.S.A. (Home).

STRAUS, William L., Jr., PH.D.; American anatomist and physical anthropologist; b. 29 Oct. 1900, Baltimore, Md.; s. of William L. Straus and Pauline Gutman; m. 1st Henrietta S. Hecht 1926 (died 1954), 2nd Bertha L. Nusbaum 1955; one d.; ed. Harvard and Johns Hopkins Univs.; Instructor in Anatomy, Johns Hopkins Univ. 1927-30, Assoc. in Anatomy 1930-43, Assoc. Prof. of Anatomy 1943-52, Prof. of Physical Anthropology 1952-57, of Anatomy and Physical Anthropology 1957-66; Prof. Emer. 1966-; mem. Nat. Acad. of Sciences; Viking Medal and Award in Physical Anthropology 1952. *Publications:* 78 publications on anatomy, zoology, physical anthropology, palaeontology and history of science 1923-. *Leisure interests:* painting, history of art, history of science. *Address:* Department of Anatomy, School of Medicine, The Johns Hopkins University, Baltimore, Md. 21205; 7111 Park Heights Avenue, Baltimore, Md. 21215, U.S.A. (Home). *Telephone:* 955-3240 (Office); 358-6249 (Home).

STRAUSS, Franz Josef; German politician; b. 6 Sept. 1915, Munich; m. Marianne Zwicknagl 1957; two s. one d.; ed. Univ. of Munich. served Second World War 1939-45; mem. Bavarian Christian Social Union Party (C.S.U.) 1945-, Deputy Chair. 1952, Chair. 1961-; mem. Bundestag (Fed.Parl) 1949-; Fed. Minister for Special Tasks 1953-55, for Atomic Questions 1955-56, of Defence 1956-62, of Finance 1966-Oct. 1969, Prime Minister of Bavaria Nov. 1978-; elected Leader of CDU/CSU Parties July 1979-. *Publications:* The Grand Design 1965, Herausforderung und Antwort 1968, Finanzpolitik, Theorie und Wirklichkeit 1968, Bundestagsreden 1968, Deutschland Deine Zukunft 1975, Signale 1978. *Leisure interests:* reading, sports. *Address:* Bayer. Staatskanzlei, Prinzregentenstrasse 7, Munich 2; Lazarettstrasse 33, Munich 2, Federal Republic of Germany. *Telephone:* 1243-215; 21-651.

STRAUSS, Paul; German carpenter and politician; b. 27 April, 1923, Vipernitz, Kreis Güstrow; joined Sozialistische Einheitspartei Deutschlands (SED) 1954; mem. Praesidium of Trade Union Orgs. (FDGR) 1959-; Cand. mem. Cen. Cttee. SED 1963-67, mem. 1967-; mem. G.D.R. Folkskammer 1963-, Council of State 1963-; Hero of Labour (twice), Vaterländischer Verdienstorden in Bronze and other decorations. *Address:* Staatsrat, Berlin, German Democratic Republic.

STRAUSZ-HUPE, Robert, A.M., PH.D.; American diplomatist; b. 25 March 1903, Vienna Austria; m. Eleanor de Graff Cuyler (died 1976); ed. Univ. of Pennsylvania. engaged in investment banking 1927-37; Assoc. Editor, Current History 1939-41; Assoc. Prof. of Political Science, Univ. of Pennsylvania 1946-52, then Prof.; Dir. Foreign Policy Research Inst. 1955-69; Amb. to Ceylon and Repub. of Maldives 1970-72, to Belgium 1972-74, to Sweden 1974-75; Perm. Rep. to North Atlantic Council 1976-77; fmr. Dir. Atlantic Council of U.S.A.; Diplomat-in-Residence Foreign Policy Research Inst., Philadelphia 1977-; Guest Prof. Geschwister Scholl Inst. Ludwig-Maximilians Univ., Munich 1978-79; mem. Council on Foreign Relations, American Political Science Assn.; Fellow, Royal Geographical Soc., Board of Visitors Nat. Defense Univ. 1977-78; Distinguished Public Service Medal (U.S. Dept. of Defense), Marilla Ricker Award (U.S. Dept. of State) 1975, and other awards. *Publications:* The Russian-German Riddle 1940, Axis-America 1941, Geopolitics 1942, The Balance of Tomorrow 1945, International Relations 1950, The Zone of Indifference 1952, Power and Community 1956, Protracted Conflict (co-author) 1959, A Forward Strategy for America 1961 (co-author), Building the Atlantic World (co-author) 1963, In My Time 1967; over 40 articles on int. affairs. *Address:* White Horse Farm, Newtown Square, Pa. 19073, U.S.A.

STREET, Anthony Austin; Australian politician; b. 8 Feb. 1926, Victoria; s. of Brig. the Hon. G.A. Street, M.C.; m. V.E. Rickard 1951; three s.; ed. Melbourne Grammar. Royal Australian Navy; primary producer; mem. for Corangamite, House of Reps. 1966; Sec. Govt. Mems. Defence and Wool Cttees. 1967-71; mem. Joint Parl. Cttee. on Foreign Affairs 1969; Chair. Fed. Rural Cttee. of Liberal Party 1970-74; mem. Fed. Exec. Council 1971; Asst. Minister of Labour and Nat. Service 1972; mem. Liberal Party Shadow Cabinet for Social Security, Health and Welfare 1973, for Primary Industry, Shipping and Transport 1973, for Science and Tech. and A.C.T. 1974, for Labour 1975; Minister for Labour and Immigration Nov.-Dec. 1975; Minister Assisting the Prime Minister in Public Service Matters 1975-77; Minister for Employment and Industrial Relations 1975-78, for Industrial Relations 1979-. *Leisure interests:* flying, cricket, golf, tennis. *Address:* Department of Employment and Industrial Relations, 239 Bourke Street, Melbourne, Victoria 3000; and Parliament House, Canberra, A.C.T.; Eildon, Lismore Victoria, Australia (Home).

STREET, Robert, PH.D., D.SC.; Australian academic and physicist; b. 16 Dec. 1920, Wakefield, England; m. Joan Marjorie Bere 1943; one s. one d.; ed. Univ. of London; Scientific Officer, Dept. of Supply, U.K. 1942-45; Lecturer Dept. of Physics, Univ. of Nottingham 1945-54; Senior Lecturer, Dept. of Physics, Univ. of Sheffield 1954-60; Foundation Prof. of Physics, Monash Univ., Melbourne, Victoria 1960-74; Dir. Research School of Physical Sciences, Australian Nat. Univ. 1974-77; Vice-Chancellor Univ. of Western Australia 1978-; fmr. Pres. Australian Inst. of Nuclear Science and Eng.; mem. and Chair. Australian Research Grants Cttee. 1970-76; Chair. Nat Standards Comm. 1967-; Fellow Australian Acad. of Science 1973, Treas. 1976-77. *Leisure interests:* fly fishing, golf. *Address:* The University of Western Australia, Nedlands, Western Australia 6009; 12 Wattle Avenue, Dalkeith, Western Australia 6009, Australia (Home).

STREICH, Rita; German singer; b. 18 Dec. 1926, Barnaul, U.S.S.R.; m. Dieter Berger 1949; one s.; studied with Erna Berger and Maria Ivogün; with Berlin State Opera, first important role

Olympia (Tales of Hoffmann) 1947; with Städtische Oper, Berlin 1950-53, with Vienna Staatsoper 1953-; sang at Bayreuth Festival 1952, 1953, Salzburg 1954-62 and 1965-, Aix-en-Provence 1955, Glyndebourne 1958; Hochschulprofessor Acad. of Music, Vienna, and Folkwang-Hochschul, Essen 1974-; guest appearances in Europe, U.S.A. and Argentina; concerts in Europe and U.S.A., Japan, Australia and New Zealand; numerous recordings and broadcasts; has appeared on television in Germany, Great Britain, on the Ed Sullivan Show (New York), etc., own television show in Germany; notable roles include the Queen of the Night (The Magic Flute), Konstanze (Il Seraglio), Susanna (The Marriage of Figaro), Zerbinetta (Ariadne auf Naxos), Sophie (Der Rosenkavalier), Gilda (Rigoletto), Rosina (The Barber of Seville), etc.; Bundersverdienstkreuz 1st class 1971. *Publications:* Österreichische Kammersängerin. *Address:* Kärntnerstrasse 23, Vienna I, Austria; and Fischlakerstrasse 11, Essen-Heidhausen, Federal Republic of Germany.

STREISAND, Barbra; American actress and singer: b. 24 April 1942, Brooklyn, N.Y.; m. Elliot Gould 1963 (divorced 1971); one s.; ed. Erasmus Hall High School; nightclub debut at Bon Soir 1961; appeared in off-Broadway revue Another Evening with Harry Stoones 1961; appeared at Caucus Club, Detroit and Blue Angel New York 1961; played in musical comedy I can get it for you Wholesale 1962; began recording career with Columbia records 1963; appeared in musical play Funny Girl, New York 1964, London 1966; television programme My Name is Barbra shown in England, Holland, Australia, Sweden, Bermuda and the Philippines, winning five Emmy awards; second programme Color Me Barbra also shown abroad; numerous concert and nightclub appearances; New York, Critics Best Supporting Actress Award 1962; Grammy recording awards; London Critics' Musical Award 1966; Academy Award (Oscar) for film Funny Girl 1968; American Guild of Variety Artists' Entertainer of the Year Award 1970. *Films:* Funny Girl 1968, Hello Dolly 1969, On a Clear Day you can see Forever 1969, The Owl and the Pussycat 1971, What's up Doc? 1972 Up the Sandbox 1973, The Way We Were 1973, For Pete's Sake 1974, Funny Lady 1975, A Star is Born 1977. *Address:* c/o Martin Erlichman, 303 East 57th Street, New York, N.Y. 10022, U.S.A.

STREIT, Clarence K.; American journalist; b. 21 Jan. 1896, California, Mo.; s. of Louis Leland and Emma Kirsham Streit; m. Jeanne Defrance 1921; one s. two d.; ed. Montana and Oxford Univs.; Rhodes Scholar Oxford 1920; Foreign Corresp. 1921-; fmr. New York Times Corresp. for LN; Pres. Int. Asscn. of Journalists accredited to the League 1932; Pres. Federal Union Inc. 1939-; Editor Freedom and Union 1946-; Pres. Int. Movement for Atlantic Union 1959-; Kefauver Union of the Free Award 1968. *Publications:* Where Iron Is, There Is the Fatherland 1920, Hafiz: The Tongue of the Hidden 1928, Union Now 1939, Union Now with Britain 1941, Union Now (post-war edn.) 1948, The New Federalist (in collaboration) 1950, Freedom Against Itself 1954, Freedom's Frontier – Atlantic Union Now 1961. *Leisure interests:* hiking in the mountains, fly fishing, writing verse, reading. *Address:* Federal Union Inc., 1875 Connecticut Avenue, Washington D.C. 20009 (Office); Ontario Apartments, 2853 Ontario Road, N.W., Washington D.C. 20009, U.S.A. (Home). *Telephone:* 202-AD4-2211 (Office); 202-AD4-3232 (Home).

STREIT, Josef, D.JUR., German Lawyer; b. 9 June 1911, Friedrichswald, Czechoslovakia; in Czechoslovakia until 1945; mem. Czechoslovak Communist Party 1930-45; in Matthausen and Dachau concentration camps 1938-45; mem. Socialist Unity Party (SED) 1945-; Area Youth Leader, Schönberg/Mecklenburg 1945; Chief Adviser, Ministry of Justice 1949; Public Prosecutor, Office of Public Prosecutor-Gen. of G.D.R. 1951-53; staff of Cen Cttee., SED 1953-62, mem. Cen Cttee. SED 1963-; Public Prosecutor-Gen. of G.D.R. 1962-; Vaterländischer Verdienstorden in Silver and Gold, and other decorations. *Address:* Generalstaatsanwalt der Deutschen Demokratischen Republik, 104 Berlin, Hermann-Matern-Strasse 33-34, German Democratic Republic.

STREITWIESER, Andrew, Jr., M.A., PH.D.; American professor of chemistry; b. 23 June 1927, Buffalo, N.Y.; s. of Andrew Streitwiesser and Sophie Morlock; m. 1st Mary Ann Good 1950 (died 1965), 2nd Suzanne Cope 1967; one s. one d.; ed. Stuyvesant High School and Columbia Univ.; Atomic Energy Comm. Postdoctoral Fellow, Mass. Inst. of Technology 1951-52; Instructor in Chem. Univ. of Calif. at Berkeley 1952-54, Asst. Prof. 1954-59, Assoc. Prof. 1959-63, Prof. of Chem. 1963-; Guggenheim Fellow 1969; mem. Nat. Acad of Sciences, American Acad. of Arts and Sciences; American Chemical Soc. awards: Calif. Section 1964, Award in Petroleum Chem 1967; Humboldt Senior Scientist Award 1976. *Publications:* Molecular Orbital Theory for Organic Chemists 1961, Solvolytic Displacement Reactions 1962, Supplemental Tables of Molecular Orbital Calculations (with J. I. Brauman) Vols. I and II 1965, Progress in Physical Organic Chemistry (co-editor) Vols I-XI 1963-74, Dictionary of π-Electron Calculations (with C.A. Coulson) 1965, Orbital and Electron Density Diagrams (with P.H. Owens) 1973, Introduction to Organic Chemistry (with C.H. Heathcock) 1976. *Leisure interests:* Music, wine, photography. *Address:* Department of Chemistry, University of California, Berkeley, Calif. 94720, U.S.A. *Telephone:* 415-642-2204.

STRENGERS, Jan; Netherlands diplomatist; b. 22 April 1914, Utrecht; s. of Theodoor Strengers; m. Jonkvrouw Marie A. de Beaufort 1946; ed. Utrecht State Univ.; worked at banking inst. 1940-48; Ministry of Econ. Affairs 1948-52; Directorate-Gen. for Econ. Co-operation, Ministry of Foreign Affairs 1952-58; Minister Plenipotentiary, Head of OECD Section of Netherlands Perm. Del. to OECD and NATO 1958-67; Amb. Perm. Del. to OECD 1967-69; Consul-Gen. to Istanbul 1969-74; Amb to Morocco 1974-. *Address:* Embassy of Netherlands, 40 rue de Tunis, Rabat, Morocco.

STRICKLAND, The Hon. Mabel Edeline, O.B.E., C.ST.J.; Maltese journalist and politician; b. 8 Jan. 1899, Malta; d. of Lord Strickland (1st and last Baron Strickland and 6th Count della Catena, Malta) and Lady Edeline Sackville; ed. St. Mary's Coll., Hobart, Tasmania; with Naval Cypher Office, Malta 1917-18; Asst. Sec. Constitutional Party 1921-45, mem. Maltese Nat. Assembly 1944, Malta Legislative Assembly 1950, 1951-53, 1962-64; Malta Chamber of Commerce 1954; Managing Dir. Allied Malta Newspapers Ltd. 1938-55, Chair. 1966-; Editor Times of Malta 1935-50, Sunday Times of Malta 1935-56; Chair. Xara Palace Hotel 1949-61, 1966-; Leader Progressive Constitutional Party 1953-75; mem. House of Reps. 1964-66. *Publications:* A Collection of Essays on Malta 1955, Maltese Constitutional and Economic Issues 1955-59 1959. *Leisure interests:* gardening, poultry. *Address:* Villa Parisio, Lija, Malta. *Telephone:* 41286.

STRITCH, Elaine; American singer and actress; b. 2 Feb. 1925, Detroit; d. of George J. and Mildred (née Tobe) Stritch; ed. Sacred Heart Convent, Detroit, Drama Workshop, New Sch. for Social Research. Broadway début as Pamela Brewster in Loco 1946; other performances include, Three Indelicate Ladies 1947, Yes M'Lord 1949, Melba Snyder in revival of Pal Joey 1952, Bus Stop 1955, Mimi Paragon in Sail Away, New York 1961, London 1962, Martha in Who's Afraid of Virignia Woolf? 1962 and 1965, Joanne in Company, New York 1970, London 1971; films include, The Scarlet Hour 1956, Three Violent People 1956, A Farewell to Arms 1957, The Perfect Furlough 1958, Who Killed Teddy Bear 1965, Pigeons 1971; numerous television appearances, including My Sister Eileen 1962, Two's Company (British Series) 1975-76 and 1979. *Address:* c/o Felix de Woolfe, 1 Robert Street, London, W.C.2., England.

STROBEL, Käte; German politician; b. 23 July 1907, Nuremberg; m. Hans Strobel 1928; two d.; ed. primary and technical schools, Nuremberg; mem. SPD 1925-; State Chair. of SPD youth org. in Bavaria; mem. Bundestag 1949-72; mem. European Parl 1958-66, Vice-Pres. 1962-64, Chair. Social Democratic Group 1964-66; Fed. Minister of Health 1966-72, Fed. Minister of Youth, Family and Health 1969-72, Fed. Minister of Youth, Family and Health 1969-72; mem. Econ. and Social Cttee., EEC 1974-, mem. Presidium 1976-; Grosses Bundesverdienstkreuz mit Stern and Schulterband 1972. *Address:* Julius-Lossmann-Strasse 108, 85 Nürnberg, Federal Republic of Germany.

STROBL, Gottlieb Maximilian; German motor manufacturing executive; b. 14 Oct. 1916, Munich; m. Hildegard Regel 1943; two d.; ed. Kronprinz Ruprecht Oberrealschule, Munich. joined Auto Union AG, Chemnitz (now Karl-Marx-Stadt) as trainee clerk 1938; Nat. Service 1940-45; Purchasing Man. of reconstituted Auto Union GmbH, mem. Board with responsibility for Materials Planning Div. 1950-71; mem. Board Dirs., Audi NSU Auto Union AG with responsibility for purchasing and materials 1971-73, Chair. Board 1975-78 (retd.); mem. Board of Dirs. Volkswagenwerk AG 1973-; mem. Board of Trustees, Deutsche Bank AG. *Leisure interest:* classical music. *Address:* Gaertnerstrasse 12, 8070 Ingolstadt, Federal Republic of Germany. *Telephone:* 0841-34239.

STROESSNER, Gen. Alfredo; Paraguayan army officer and politician; b. 3 Nov. 1912; ed. Military Coll., Asunción; entered Paraguayan army; commissioned 1932, served through all ranks to Gen; C.-in-C. of Armed Forces 1951; Pres. of Paraguay 1954- (Pres. for Life 1977-); mem. Partido Rojo; Cruz del Chaco, Cruz del Defensor, decorations from Argentina and Brazil. *Address:* Casa Presidencial, Avenida Mariscal López, Asunción, Paraguay.

STROM, Harry Edwin; Canadian politician; b. 7 July 1914, Burdett, Alberta; m. Ruth Strom; six c.; mem. Alberta Legislative Assembly 1955-; Minister of Agric. 1962, Minister of Municipal Affairs 1968; Premier of Alberta 1968-71; Leader of the official

opposition 1971-; Chair. Human Resources Devt. Authority; Dir. Rural Electrification Assn., Western Canada Reclamation Assn.; Pres. Home and School Assn., Agricultural Improvement Assn.; mem. South Alberta Water Conservation Assn. *Leisure interests:* skiing and outdoor sports. *Address:* 205 Legislative Building, Edmonton, Alberta, Canada. *Telephone:* 2293803.

STRÖMGREN, Bengt Georg Daniel, PH.D.; Danish astronomer; b. 21 Jan. 1908; ed. Univ. of Copenhagen; Lecturer, Univ of Copenhagen 1933, Prof. 1938-40, Dir. Observatory 1940; Asst. Prof. of Astrophysics, Univ. of Chicago 1936-37; Assoc. Prof. 1937-38; Prof. Dir Yerkes and MacDonald Observatory, Williams Bay, Wis. 1947-57; mem. Inst. for Advanced Study, Princeton 1957-67; Prof. of Astronomy, Univ. of Copenhagen 1967-; Pres. Danish Acad. of Sciences and Letters; Assoc. Royal Astron. Soc.; Hon. mem. American Astron. Soc.; mem. American Acad. of Arts and Sciences, Soc. Royale des Sciences de Liège, Royal Swedish Acad. of Sciences, Koninklijke Nederlandse Akademie van Wetenschappen, Int. Astron. Union (Gen. Sec. 1948), ICSU (mem. Exec. Cttee. 1948); Foreign mem. Nat Acad. of Sciences (U.S.A.) 1971-; Augustinus Prize Royal Soc. Gold Medal, Ole Rømer Medal. *Address:* Department of Astronomy, Københavens Universitet, Frue Plads, 1168 Copenhagen K, Denmark.

STRONG, Maurice F.; Canadian international official; b. 29 April 1929, Oak Lake, Manitoba; s. of Frederick Milton Strong and Mary Fyfe Strong (deceased); m. Pauline Olivette Williams 1950; five c. served in UN Secr. 1947; Pres. or Dir. of various Canadian and int. corpns. 1954-66; also involved in leadership of various private orgs. in field of devt. and int. affairs; Dir.-Gen. External Aid Office of Canadian Govt. 1966; (office subsequently redesignated as Canadian Int. Devt. Agency); Chair. Canadian Int. Devt. Board; Alt. Gov. IBRD, ADB, Caribbean Devt. Bank; UN Under-Sec. Gen. with responsiblity for environmental affairs 1971-73, Chief Exec. for 1972 Conf. on Human Environment, Stockholm, June 1972; Exec. Dir. UN Environment Programme 1973-75; Chair. Petro Canada 1976-78; Chair. Board of Govs. Int. Devt. Research Centre 1977-; Trustee, Rockefeller Foundation 1971-77; several hon. degrees; Int. Pahlavi Environment Prize 1976. *Address:* P.O. Box 2855, Calgary, Alberta, T2P 2M7, Canada.

STRONG, Most Rev. Philip Nigel Warrington, K.B.E., C.M.G., C.ST.J., D.D., M.A., TH.D.; British ecclesiastic; b. 11 July 1899, Etwall; s. of late Rev. John Warrington Strong and late Rosamond Marian (née Wingfield-Digby) Strong; ed. King's School, Worcester, Selwyn Coll., Cambridge and Bishop's Coll., Cheshunt; served with Royal Engineers (Signal Service) 1918-19; Deacon 1922, Priest 1923; Curate of St. Mary's Tyne Dock 1922-26; Vicar of Christ Church, Leeds 1926-31, of St. Ignatius the Martyr, Sunderland 1931-36; Proctor of Convocation of York and mem. Church Assembly for Archdeaconry of Durham 1936; Bishop of New Guinea 1936-63; Senior Chaplain to Australian Army 1943-45; mem. Legislative Council, Territory of Papua and New Guinea 1955-63; Archbishop of Brisbane and Metropolitan of Queensland, Australia 1963-70; Primate of Australia 1966-70; Hon. Fellow Selwyn Coll., Cambridge 1966-; Sub-Prelate Order of St. John of Jerusalem 1967-. *Publication:* Out of Tribulation 1947. *Address:* Cathedral Close, Wangaratta, Victoria 3677, Australia. *Telephone:* Wangaratta 215603.

STRONG, Roy Colin, PH.D.; British museum director; b. 23 Aug. 1935, London; s. of George Edward Clement Strong and Mabel Ada Smart; m. Julia Trevelyan Oman (*q.v.*) 1971; ed. Queen Mary Coll., Univ. of London and Warburg Inst.; Asst. Keeper, Nat. Portrait Gallery, London 1959-67, Dir. 1967-73; Dir. Victoria and Albert Museum, London 1974-; Organizer of Exhibitions incl. The Elizabethan Image (Tate Gallery) 1969, The Destruction of the Country House (Victoria and Albert Museum) 1974. *Publications:* Portraits of Queen Elizabeth I 1963, Holbein and Henry VIII 1967, Tudor and Jacobean Portraits 1969, The English Icon: Tudor and Jacobean Portraiture 1969, Van Dyck: Charles I on Horseback 1972 (with S. Orgel), Inigo Jones: The Theatre of the Stuart Court 1972, Splendour at Court: Renaissance Spectacle and The Theatre of Power 1973, Nicholas Hilliard 1975, A Garland for Elizabeth 1976, The Cult of Elizabeth: Elizabethan Portraiture and Pageantry 1977, And When Did You Last See Your Father? The Victorian Painter and the British Past 1978, The Renaissance Garden in England 1979 and numerous articles in newspapers and periodicals. *Address:* c/o Victoria and Albert Museum, London, S.W.7, England. *Telephone:* 01-589 6371.

STRONGE, Rt. Hon. Sir Charles Norman Lockhart, 8th Bt. (cr. 1803), P.C. (Northern Ireland), M.C.; British (Northern Ireland) politician; b. 23 July 1894, Bryansford; s. of Sir Charles E. Stronge and Marion Iliff Bostock; m. Gladys Olive Hall; one s. two d.; ed. Eton; war service 1914-19; M.P. for Mid-Armagh, N. Ireland Parl. 1938-69; Asst. Parl. Sec. Ministry of Finance 1941-42; Parl. Sec. and Chief Whip 1942-44; Speaker, N. Ireland House of Commons 1945-69; Chair. Armagh County Council 1945-56; Lord Lieut, Co. Armagh 1939-; Dir. Commercial Insurance Co. of Ireland Ltd.; Pres. Royal Overseas League (N. Ireland), British Legion N. Ireland Area 1946-; Hon. Col. 5th Bn. Royal Irish Fusiliers 1950-63; Commdr. Order of Leopold (Belgium) 1946, Belgian Croix de guerre 1918, Knight of St. John; mem. of Unionist Party. *Address:* Tynan Abbey, Tynan, Co. Armagh, N. Ireland.

STROUGAL, Lubomir, JU.DR.; Czechoslovak politician; b. 9 Oct. 1924, Veselí nad Lužnicí; ed. Charles Univ., Prague; mem. CP of Czechoslovakia 1945-; Sec. České Budějovice Regional Cttee., CP of Czechoslovakia 1955-57, Chief. Sec. 1957-59; mem. Central Cttee., CP of Czechoslovakia 1958-; Minister of Agric. and Forestry 1959-61, of the Interior 1961-65; Deputy Nat. Assembly 1960-69; Sec. Central Cttee., CP of Czechoslovakia 1965-68; Deputy Prime Minister 1968; mem. Comm. for Questions of Living Standards, Central Cttee. 1966-69, Chair. 1967-69; Chair. Econ. Council 1968-69; mem. Presidium, Central Cttee. of CP of Czechoslovakia 1968-, Sec. and mem. Secr. 1968-70, mem. Exec. Cttee. 1968-69; Chair. Bureau for directing Party work in the Czech lands, Central Cttee. CP of Czechoslovakia 1968-70; Deputy to Czech Nat. Council 1968-71; Deputy to House of the People Fed. Assembly 1969-; Prime Minister of Czechoslovak Socialist Repub. Jan 1970-; Chair. Govt. Comm. for Physical Culture and Sports -1978; Commdr. Czech People's Militia 1969; Order of Merit for Construction 1958, Dimitrov Order (Bulgaria) 1970, Order Stara Planina (1st Class) (Bulgaria) 1972, Order of Victorious Feb. 1973, Order of Sukhe Bator (Mongolia) 1973, Order of State Banner (1st Class) (Democratic People's Republic of Korea) 1973, Order of May Revolution (Argentina) 1974, Order of the Republic 1974, Order of the Crown (1st Class) (Iran) 1976, Golden Medal of FAO (UN). *Address:* Govt. Presidium of C.S.S.R., Prague, Czechoslovakia.

STROUX, Karl-Heinz; German theatre director; b. 25 Feb. 1908, Hamborn; s. of Heinrich Stroux and Maria Guinotte; m. Eva-Maria Raffel 1942; two s.; ed. Landfermanngymnasium Duisburg, Universität Berlin and Drama School of Volksbühne, Berlin.; actor and Asst. Dir. Volksbühne, Berlin 1927-30; freelance Dir. various Berlin theatres 1930-38; at Burgtheater, Vienna 1938-40, Staatstheater Berlin 1940-45; founded Heidelberger Kammerspiele 1945; Dramatic Dir. Landestheater Darmstadt 1946; Dramatic Dir. Staatstheater Wiesbaden 1947-49, also Film Producer and Dir. (Nova-Film) 1947-49; Dramatic Dir. Hebbeltheater, Berlin 1949-51; freelance Dir. Hamburg, Vienna and Düsseldorf, and Dramatic Dir. Schiller Theater, Berlin 1952-55; Financial, Dramatic and Producing Dir. Schauspielhaus, Düsseldorf 1955-72; freelance Dir. of opera and drama 1972-. *Leisure interests:* history, modern art, cybernetics. *Address:* 4 Düsseldorf 30, Paul von Hasestrasse 14, Federal Republic of Germany.

STROWGER, Gaston Jack, C.B.E.; British business executive; b. 8 Feb. 1916, Kessingland, Suffolk; s. of A.H. Strowger and Lily Ellen Tripp; m. Katherine Ellen Gilbert; two s. one d.; ed. Lowestoft Grammar School; joined London Electricity Supply Co. 1934; served with 24th Lancers, Eighth Army 1939-43; Accountant, Thorn Electrical Industries Ltd. 1943, Group Chief Accountant 1952, Exec. Dir. 1961, mem. Board 1966, Financial Dir. 1967, Man. Dir. Jan. 1970-79, Chair. Engineering Div. 1972-, now Dir.; Chair. Thorn Ericsson Telecommunications Ltd. 1974-; Deputy Chair. Tricity Finance Ltd. 1968-; Non-exec. Chair. Gen. Telephone systems Ltd. and The Birmingham Telephone Co. Ltd. April 1978. *Leisure interests:* gardening, fishing, bowls. *Address:* Thorn Electrical Industries Ltd., Thorn House, Upper St. Martin's Lane, London WC2H 9ED, England. *Telephone:* 01-836 2444.

STRUCHKOVA, Raisa Stepanovna; Soviet ballerina; b. 5 Oct. 1925, Moscow; ed. Bolshoi Theatre Ballet School; Soloist, Bolshoi Theatre Ballet Group 1944- Lecturer in classical dancing Lunacharsky State Inst. of Theatrical Art 1968-; mem. CPSU 1962; People's Artist of U.S.S.R. 1958; Order of the Red Banner and other decorations. *Principal roles include:* Cinderella (Cinderella, Prokofiev), Juliet (Romeo and Juliet, Prokofiev), Giselle (Giselle, Adan), Princess Aurora (Sleeping Beauty, Tchaikovsky), Odette-Odile (Swan Lake, Tchaikovsky), Kitri (Con Quixote), Parasha (Copper Rider, Glier), Tao Khoa (Red Poppy, Glier), Maria (Fountain of Bakshisarai, Asafyev), Janne, also Diana de Mirrel (Flames of Paris, Asafyev), Gayane (Gayane, Khachaturyan), Vakchanka (Walpurgisnacht, Gounod); films: Crystal Slipper, Your Name. *Address:* State Academic Bolshoi Theatre, 1 ploshchad Sverdlova, Moscow, U.S.S.R.

STRUMINSKY, Vladimir Vasiliyevich, D.SC.(ENG.); Soviet scientist (Mechanics); b. 29 April 1914, Orenburg; ed. Moscow State Univ. scientific work in Central Inst. of Aerohydrodynamics 1941-66; Prof. Moscow Physical-Technical Inst. 1947-66; Dir. U.S.S.R.

Acad. of Sciences Siberian Dept. Inst. of theoretical and applied mechanics 1966-71; Head of Physical Aerodynamics Section, Inst. of Mechanical Problems, U.S.S.R. Acad. of Sciences 1971-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-; State Prize (twice), Zhukovsky Gold Medal, Lenin Prize, Order of Lenin and other decorations. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

STRUYEV, Aleksandr Ivanovich; Soviet politician; b. 23 Feb. 1906; Soviet and party work 1925-; mem. CPSU 1927-; Chair. Exec. Cttee. Donets Regional Soviet of Workers' Deputies CP of Ukraine 1944-47, First Sec. Donets Regional Cttee. 1947-53; First Sec. Perm Regional Cttee., CPSU 1954-58; Deputy Chair. Council of Ministers of R.S.F.S.R. 1958-62; Chair. Council of Ministers of U.S.S.R. State Cttee. for Trade 1962-65; U.S.S.R. Minister of Trade 1965-; mem. Cen. Auditing Comm. CPSU 1952-56; mem. Cen. Cttee. of CPSU 1956-61, 1966-, Cand. mem. 1961-66; Deputy to U.S.S.R. Supreme Soviet 1946-62, 1966-; Deputy to R.S.F.S.R. Supreme Soviet 1962-66; Order of Lenin (five times), Hero of Socialist Labour and other decorations. *Address:* Ministry of Trade, 14 Ulitsa Razina, Moscow, U.S.S.R.

STUART, Jesse Hilton, B.A.; American writer; b. 8 Aug. 1907; ed. Lincoln Memorial and Vanderbilt Univs. and Peabody Coll., Nashville; Teacher, Secondary Schools; Coll. and Univ. Lecturer; Officer U.S. Naval Reserve 1960-61; Visiting Prof., American Univ. Cairo; numerous honorary degrees. *Publications:* 25 books, 279 short stories, over 1,600 poems. *Address:* Route 1, W-Hollow, Greenup, Kentucky 41144, U.S.A.

STUBBE, Hans, DR. AGR.; German geneticist; b. 7 March 1902, Berlin; ed. Landwirtschaftliche Hochschule, Berlin, and Univ. of Göttingen; agricultural employment 1922-25; asst. at Inst. für Vererbungsforschung, Berlin 1927; asst. and departmental dir. Kaiser-Wilhelm-Inst. für Züchtungsforschung, Müncheberg 1929-36; Kaiser-Wilhelm-Inst. für Biologie 1936-43; Dir. Kaiser-Wilhelm-Inst. für Kulturpflanzenforschung, Vienna 1943-45; Prof. of General and Special Genetics and Dir. Inst. of Genetics and Dir. Inst. of Genetics, Univ. of Halle 1946-67; mem. Agric. Council of Ministers 1963-72; Hon. Pres. Akad. der Landwirtschaftswissenschaften der D.D.R., Berlin; mem. Akad. der Wissenschaften der D.D.R. and Emer. Dir. of its Zentral-Inst. für Genetik and Kulturpflanzenforschung, Gatersleben; mem. other acads and research bodies; Dr. h.c., Dr. agr. h.c.; Nat. Prize 1949, 1960; Vaterländischer Verdienstorden (silver) 1954, (gold) 1961 and other decorations. *Publications:* books on genetics. *Address:* 4325, Gatersleben, Krs. Aschersleben, Schmiede strasse 1, German Democratic Republic. *Telephone:* Gatersleben 50.

STUBBLEFIELD, Sir (Cyril) James, Kt., F.R.S., D.SC. (LOND.), A.R.C.S.; British geologist; b. 6 Sept. 1901, Cambridge; s. of James and Jane Stubblefield; m. Emily Muriel Elizabeth Yakchee 1932; two s.; ed. Perse School (Cambridge), Chelsea Polytechnic and Royal Coll. of Science, London; Demonstrator, Geology Dept. Imperial Coll. of Science and Technology 1923-28; with Geological Survey of Great Britain and Museum of Practical Geology 1928-66, Chief Palaeontologist 1947-53, Asst. Dir. 1953-60, Dir. 1960-66; Dir. Geological Survey of N. Ireland 1960-66; mem. Anglo-French Comm. of Surveillance, Channel Tunnel 1964-67; Pres. 6th Inst. Congress Carboniferous Stratigraphy and Geology, Sheffield 1967; Pres. Geological Soc., London 1958-60; Pres. Palaeontographical Soc. 1966-71; Gov. Chelsea Coll. of Science and Technology 1958-; Corresp. mem. Palaeontological Soc., U.S.A., Geological Soc. of Stockholm, Geological Soc. of France, Senckenbergische Naturforschende Gesellschaft; Hon. Fellow, Palaeontological Soc. of India; Fellow, Imperial Coll.; Hon. D.Sc. (Southampton Univ.). *Publications:* Handbook of Geology of Great Britain (co-editor) 1929, A.M. Davies's Introduction to Palaeontology (revised, 3rd edn.) 1961. *Address:* 35 Kent Avenue, Ealing, London, W13 8BE, England. *Telephone:* 01-997 5051.

STÜCKLEN, Richard; German electrical engineer and politician; b. 20 Aug. 1916; ed. vocational school, tech. coll.; fmr. Industrial Dept. Man.; Army Service 1940-44; then Man. in family business; mem. Bundestag 1949-; Deputy Chair. Christian Democratic Union/Christian Social Union (CSU) Group and Chair. CSU in Bundestag 1953-57, 1966-76; Fed. Minister of Posts and Telegraphs 1957-66; Vice-Pres. Bundestag 1976-79, Speaker June 1979-; awards include Grosskreuz des Verdienstordens der Bundesrepublik Deutschland, Bayerische Verdienstorden. *Address:* Bundeshaus, 53 Bonn; Eichstätter Strasse 27, 8832 Weissenburg, Federal Republic of Germany (Home).

STUMMVOLL, Josef Leopold, SC.D., PH.D.; Austrian librarian; b. 19 Aug. 1902, Baden, Vienna; s. of Josef Stummvoll and Maria Gassler; m. Luise Thorngren 1939; one s. two d.; ed. Univs. of Vienna, Kiel and Leipzig; Research Librarian and Dir. Reading Dept., Deutsche Bücherei, Leipzig 1925-33, 1937-39; Dir. and organizer, Library of Coll. of Agriculture and Veterinary Medicine (Yüksek Ziraat Enstitüsü) Ankara 1933-37; Research librarian, Library of the Patent Office, Berlin 1939-43; non-combatant war service 1943-45, P.O.W. 1945; Librarian (Oberstaatsbibliothekar), Austrian Nat. Library May 1946, Deputy Dir.-Gen. Sept. 1946, Dir.-Gen. Oct. 1949-67; on leave as UNESCO Expert for development of Iranian libraries 1952-53; on leave as Dir. UN Library, New York 1959-63; Chair. Fed. Board of Examination in Library Science 1949-69; Chair. Council on Librarianship (Austrian Ministry of Educ.) 1956-67; Past Pres. Asscn. of Austrian Librarians; Pres. Int. Inst. for Youth Literature 1965-72, Hon. Pres. 1972-; Pres. Österreichisches Inst. für Bibliotheksforschung 1966-; merit awards from Austria, Lower Austria, Italy and Vienna; Golden M.Sc. 1975; Chief Editor Biblos (Österreichische Zeitschrift für Buch and Bibliothekswesen, Dokumentation, Bibliographie and Bibliophilie) 1952- and Biblos-Schriften (96 vols.), Die Österreichische Nationalbibliothek, Festschrift J. Bick 1948, Denkmäler des Theaters, Anton Bruckner, Collected Works (19 vols). Museion Publications of the Austrian Nat. Library (20 vols), Corpus Papyrorum Raineri, Mitteilungen aus der Papyrussammlung (5 vols.), Codices Selecti (57 vols.), Geschichte der Österreichischen National Bibliothek 1368-1967 (2 vols.), 1968-73, etc. *Publications:* Books on librarianship, history of science, documentation, etc., Fetschrift J. Stummvoll zum 50. Geburtstag 1952, Bibliothek der Zukunft 1965, Festschrift J. Stummvoll zum 65. Geburtstag (2 vols.) 1970, Dira Necessitas 1968, Electronik in Bibliotheken 1969, Die Gutenberg-Bibel, Eine Census-Übersicht 1971, Die Österreichische National-Bibliothek im Handbuch der Bibl. Wissenschaft 1971, J. Stummvoll: Leben und Werk 1971, Am Biespiel eines Bibliothekars zum 70. Geburtstag 1972, Da-Schrifttum der Vereinten Nationen: Zeugnis des Weltgewissens (Mitteilungen des Österreichischen Staatsarchivs, Band 25) 1972, Technikgeschichte u. Schrifttum 1975, Am Ende des Buchzeitalters? (Essays and Studies in Librarianship, presented to Curt David Wormann, Jerusalem) 1975, Bibliothekar aus Berufung 1975, Geburtstag 1977. *Leisure interests:* swimming, walking, music (piano, accordion), reading (at all times). *Address:* Josefplatz 1, A 1014 Vienna (Office); Flamminggasse 36, A 2500 Baden, Austria (Home). *Telephone:* 0222-52-52-55 (Office); 02252-36565 (Home).

STURÉN, Olle; Swedish civil engineer and administrator; b. 20 Feb. 1919, Stockholm; m. Solveig Winqvist 1943; ed. Royal Institute of Technology, Stockholm; worked for Stockholm Building Board 1944-47; Tech. Officer, Bldgs. Div., Swedish Standards Inst. 1947-49, Deputy Dir. 1949-57, Dir. 1957-68 Sec.-Gen. Int. Org. for Standardization (ISO) 1968-; UN expert on industrial standardization, Turkey 1953-54, 1955-56; Officer-in-Charge UN Office, Ankara Turkey, 1954; Chair. European Cttee. for Standardization 1966-68, Town Council, Danderyd, Exec. Cttee. Swedish Lawn Tennis Asscn.; Hon. mem. Turkish Standards Inst.; Fellow, of Standards Engineer Soc., U.S.A. 1970; Hon. Fellow, Swedish Lawn Tennis Asscn. *Leisure interests:* local affairs, sport. *Address:* International Organization for Standardization, Case Postale 56, 1211 Geneva 20, Switzerland. *Telephone:* (022) 34 12 40.

STUYT, L.B.J., M.D., F.R.C.P.(LOND.); Netherlands politican; b. 16 June 1914, Amsterdam; m. Jkvr. E. van Ryckevorsel van Kessel 1956; three s.; ed. medical studies in Amsterdam and Leiden; fmr. consultant physician, The Hague; mem. Board Catholic Univ. Nijmegen; mem. Nat. Health Council; Pres. Netherlands Soc. of Internal Med.; Minister of Public Health and Environment 1971-73; Pres. Netherlands Central Org. for Applied Scientific Research TNO, The Hague. *Leisure interests:* music, tennis, gardening. *Address:* Van Soutelandelaan 149, The Hague, Netherlands. *Telephone:* (070) 280500

STYLIANOU, Petros Savva; Cypriot politician, journalist and writer; b. 8 June 1933, Kythrea; s. of Savvas and Evanthia Stylianou; m. Voula Tzanetaton 1960; two d.; ed. Pancyprian Gymnasium, Univs. of Athens and Solonika; served with Panhellenic Cttee. of the Cyprus Struggle (PEKA) and Nat. Union of Cypriot Univ. Students (EFEK), Pres. EFEK 1953-54; co-founder Dauntless Leaders of the Cypriot Fighters Org. (KARI); joined liberation movement of Cyprus 1955; imprisoned in Kyrenia Castle 1955, escaped; leader, Nat. Striking Group; sentenced to 15 years imprisonment 1956, transferred to U.K. prison, released 1959; mem. Cen. Cttee. United Democratic Reconstruction Front (EDMA) 1959; Deputy Sec.-Gen. Cyprus Labour Confed. (SEK) 1959, Sec.-Gen. 1960-62; founded Cyprus Democratic Labour Fed. (DEOK) 1962, Sec.-Gen. 1962-73, Hon. Pres. 1974-; mem. House of Reps. 1960-70, Sec. 1960-62, promoted Parl. legislation for est. of cultural, educational and scientific insts.; Man. Editor Ergatiki Foni (Voice of

the Working Class) newspaper 1960-62, Ergatikos Agonas (The Workers' Struggle) DEOK newspaper 1962-63, Allaghi (Change) 1963; mem. co-ordination cttee. of 28 assoc. vocational and scientific orgs. 1964-66; Founder and Pres. Pancyprian Org. for Rehabilitation of the Disabled 1967; Founder, Pancyprian Olive Produce Org. 1967; Founder, Pres. Cyprus Historical Museum and Archive 1974-; Founder, Pres. Pancyprian Cttee. for the Enclaved Greek Population 1974-; Founder and Pres., Political Cttee. for the Cyprus Struggle (PEKA) 1976-; Founder, Man. Dir. Kypriakos Logos magazine 1969-, Anaperikon Vima (The Step of the Disabled) 1970-; mem. Int. Council on Archives 1975-, Admin. Board of Hellenic Inst. for Research in Rehabilitation 1976-; Founder Pancyprian Orgs. for Rehabilitation of Spastics, Rehabilitation from Kidney disease, from Haemophilia and from Myopathy, numerous awards and prizes from Cyprus, Greece and U.S.A. *Publications:* Kyrenia Castle 1966, Epic of Central Prisons 1967, Hours of Resurrection 1967, Problems of Education 1968, Sean Macstiofain, Leader of the IRA and Adorer of Hellenism, Saint Demetrianos—Bishop of Chytri, Cyprus 1973, Historical Data relating to the Ethnarchical Role of the Cyprus Church 1973, Achievements and Targets in the Rehabilitation of the Disabled 1973, Laographicon Minologion 1973, Peri to vasilion ton Chytron 1974, Anekdotoi Epistolae Kyprion antarton, Kratoumenon is Anglikas Fylakas Pros Anglous Episimous 1974, Mavri Vivlos (Palekythro I) 1975, Mavri Vivlos (Palekythro II, no. 2) 1976, Mavri Vivlos (Lapithos, no. 3) 1976, O ellinismos epi tourcocratias 1975, Epitomi synchronou ellinikis istorias 1976, i ipo tou Petrou Avendaniou Kypriaki apeleftherotiki exegersis tou 1607 1975, Yi mou, odynis Yi 1976, Mavri Vivlos (Apo to imerologio enos echmalotou, no. 4) 1976, Mavri Vivlos (i sylisi tis politisticis mas cleronomias—fonoi sto Kapouti, no. 5) 1976. *Address:* Cyprus Historical Museum, 4 Katsonis Street, Dept. 31, Nicosia, Cyprus. *Telephone:* 43089.

STYRIKOVICH, Mikhail Adolfovich, D.SC.(ENG.); Soviet specialist in heat engineering; b. 16 Nov. 1902, St. Petersburg (now Leningrad); s. of Adolf Styrikovich and Yelizaveta Nikolayevna Styrikovich; m. Olga Martynova 1946, two d.; ed. Leningrad Technical Inst.; Engineer, Leningrad optical glass factory 1926-28; scientific worker of Central Turbine and Boiler Inst. 1928-46; U.S.S.R. Acad. of Sciences Inst. of Energetics 1938-60; Head, Laboratory of Research Inst. of Energetics 1938-60; Head, Laboratory of Research Inst. of High Temperatures 1961-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-64, mem. 1964-; Academician-Sec. of the U.S.S.R. Acad. of Science Dept. for Physical Engineering Problems and Energetics. *Leisure interests:* tennis, skiing, cinema. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky prospekt, Moscow, U.S.S.R. *Telephone:* 232-78-72.

STYRON, William, A.B.; American writer; b. 11 June 1925, Newport News, Va.; s. of William Styron and Pauline Abraham; m. Rose Burgunder 1953; one s. three d.; ed. Davidson Coll., Duke Univ.; mem. American Acad.-Nat. Inst. of Arts and Letters, Signet Soc. Harvard Univ.; Fellow, Silliman Coll., Yale Univ.; Fellow, American Acad. of Arts and Sciences; Pulitzer Prize for best novel 1968; Howells Medal for Fiction 1970; Hon. Consultant, Library of Congress. *Publications:* Lie Down in Darkness 1951, The Long March 1955, Set this House on Fire 1960, The Confessions of Nat Turner 1967, In the Clap Shack (play) 1973, Sophie's Choice 1979. *Leisure interests:* tennis, sailing. *Address:* R.F.D., Roxbury, Conn. 06783; Vineyard Haven, Mass. 02568, U.S.A. (Summer). *Telephone:* (617) 693-2535.

SU CHEN-HUA; Chinese party official; b. 1909, Hunan, ed. Red Army Acad.; joined Red Army 1929; on Long March 1934-35; Political Commissar 7th Army Corps, 2nd Field Army 1949; Sec. CCP Kweichow 1950; Deputy Political Commissar of Navy, People's Liberation Army 1953, Political Commissar 1957-; Adm. 1956; Alt. mem. 8th Cen. Cttee. of CCP 1956; Alt. mem. Politburo, 10th Cen. Cttee. of CCP 1973; mem. Politburo 11th Cen. Cttee. CCP 1977; First Sec. Shanghai Party Cttee., Chair. Shanghai Revolutionary Cttee. 1976-; First Sec. PLA Navy Party Cttee. (Died 1979.)

SU YU; Chinese politician and fmr. army officer; b. 1909, Fukien; ed. Hunan Prov. No. 2 Normal School, Changte; Commdr. Training Battalion, Red Army Coll. 1931; Deputy Commdr. N. Kiangsu Command, New 4th Army 1939; Alt. mem. 7th Cen. Cttee. of CCP 1945; Deputy Commdr. 3rd Field Army 1948; Acting Mayor of Nanking 1949; Chief of Staff People's Liberation Army 1954-58; Gen. 1955; mem. 8th Cen. Cttee. of CCP 1956; Vice-Minister of Nat. Defence 1959-; mem. 9th Cen. Cttee. of CCP 1969, 10th Cen. Cttee. 1973, 11th Cen. Cttee. CCP 1977, Standing Cttee 5th Nat. People's Congress 1978-; Leading mem. Mil. Comm. CCP Cen. Cttee. 1978-. *Address:* People's Republic of China.

SUÁREZ GONZÁLEZ, Adolfo; Spanish lawyer and politician; b. 25 Sept. 1932, Cebreros, Avila Province; Civil Gov. of Segovia until 1969, then Dir.-Gen. Radio and TV; Pres. Empresa Nacional de Turismo; Pres. Unión del Pueblo Español; Vice-Sec.-Gen. Falange until 1975, Sec.-Gen. 1975-76; Prime Minister and Pres. of Council of Ministers July 1976-; Leader Unión Centro Democrático (UCD) 1977-; elected Pres. 1978-. *Address:* Oficina del Premier Ministro, Madrid, Spain.

SUBANDRIO, Dr.; Indonesian politician, diplomatist and surgeon; b. 1914; ed. Medical Univ., Jakarta; active in Nat. Movement ■■ student and gen. practitioner; worked with underground anti-Japanese Forces during Second World War; forced to leave post at Jakarta Central Hospital and then established a private practice at Semarang; following Declaration of Independence abandoned practice to become Sec.-Gen., Ministry of Information and was later sent by Indonesian Govt. as special envoy to Europe; established Information Office, London 1947; Chargé d'Affaires, London 1949, Ambassador to Great Britain 1950-54, to U.S.S.R. 1954-56; Foreign Minister 1957-66; Second Deputy First Minister 1960-66, concurrently Minister for Foreign Econ. Relations 1962-66; convicted of complicity in attempted communist coup and sentenced to death Oct. 1966; sentence commuted to life imprisonment 1970. *Address:* Jakarta, Indonesia.

SUBBA RAO, K.; Indian judge; b. 1902, Rajahmundry; s. of Subrahmaneswara Rao; m. Parijatham 1925; one s. one d.; ed. Govt. Arts Coll., Rajahmundry and Madras Law Coll.; practice at Madras Bar 1926-48; Judge, Madras High Court 1948-54; Chief Justice, Andhra High Court 1954-56, Andhra Pradesh High Court 1956-58; Justice, Supreme Court of India 1958-67, Chief Justice of India 1966-67; Chancellor, Venkateswara Univ. 1954, Pro-Chancellor Delhi Univ. 1966-67; Hon. LL.D. (Univs. of Osmania and Bangalore). *Publications:* Fundamental Rights, Philosophy of Indian Constitution, Some Constitutional Problems, Man and Society, The Conflicts in Indian Polity, The Centre and State Relations, The Indian Democracy. *Address:* 7 Rest House Crescent, Bangalore 1, India. *Telephone:* 51774.

SUBBULAKSHMI, Madurai Shanmugavadivu; Indian classical Karnatic musician; b. 16 Sept. 1916; ed. privately; recitals with her mother and Guru Veena Shanmugavadivu 1928-32; gave solo performances and became ■ leading musician before age 18; acted title role in Hindi film Meera; numerous benefit performances, donated royalties from many of her records to social and religious causes; rep. Karnatic music at Edinburgh Festival 1963; concerts in London, Frankfurt, Geneva, Cairo; 7-week tour of U.S.A. 1966; performed in Tokyo, Bangkok, Hong Kong, Manila, Singapore, Malaysia; Pres. Madras Music Acad. Conf. 1968; Hon. D.Litt. (Rabindra Bharati Univ.) 1967, (Shri Venkateswara Univ.) 1971, (Delhi Univ.) 1973; Padma Bhushan 1954; President's Award for Karnatic Music 1956, Ramon Magsaysay Award for Public Service (Philippines) 1974; Sangeet Natak Acad. Fellowship 1974; Padma Vibhushan 1975; honorific title Sangeetha Khalanidhi; honorific title Sapthagiri Sangeetha Vidwanmani 1975. *Address:* c/o T. Sadasivam, Kalki Buildings, Chetput, Madras 600031, India.

SUBONO, Admiral Richardus; Indonesian diplomatist and former naval officer; b. 27 June 1927, Yogjakarta; s. of R. S. Suryosumarno and R. Sukimah; m. Veronica Umboh 1959; one s. three d.; ed. naval schools; various appointments in the fleet, shore establishments and Naval Headquarters 1950-61; Deputy C.-in-C. Theatre Command for Liberation of West Irian 1962; Dir.-Gen. of Planning, Naval HQ 1963; Deputy Gov. Nat. Defence Coll. 1964; Deputy Chief of Staff of Navy 1966; Chief of Gen. Staff, Armed Forces HQ, Ministry of Defence and Security 1969; Chief of Staff of the Navy 1973; Amb. to U.K. 1974-; numerous medals. *Address:* c/o Ministry of Foreign Affairs, Jakarta, Indonesia.

SUBRAMANIAM, Chidambaram, B.A., B.L.; Indian politician; b. 30 Jan. 1910, Pollachi, Coimbatore District of Tamil Nadu; ed. Madras Univ.; joined Satyagraha Movement and imprisoned 1932; started legal practice Coimbatore 1936; political imprisonment 1941, 1942; Pres. Coimbatore District Congress Cttee. and mem. Working Cttee. of All-India Congress Cttee.; mem. Constituent Assembly of India 1946-51, Madras Legislative Assembly 1952-62; Minister of Finance, Educ. and Law, Madras State 1952-62; mem. Lok Sabha 1962-67, 1971-; Minister of Steel 1962-63, of Steel, Mines and Heavy Eng. 1963-64, of Food and Agriculture 1964-66, of Food, Agriculture, Community Devt. and Co-operation 1966-67, of Planning, Science and Technology 1971-72, of Industrial Devt., Science and Technology 1972-74, of Finance 1974-77; Chair. Nat. Comm. on Agriculture 1970; Deputy Chair. Nat. Planning Comm. 1971; mem. Governing Council of Int. Wheat and Maize Improvement Centre, Mexico; mem. Board of Govs. Int. Rice Research

Inst., Manila; Pres. All-India Tennis Assn. *Publications:* Travelogues in Tamil: Countries I Visited, Around the World, India of my Dreams, War on Poverty, New Agricultural Strategy. *Address:* River View, Guindy, Madras 25; and 26 Tughlak Crescent, New Delhi, India.

SUBROTO, M.A., PH.D.; Indonesian politician; b. 19 Sept. 1928, Surakarta; ed. Univ. of Indonesia, McGill, Stanford and Harvard Univs.; fmr. Dir.-Gen. of Research and Devt., Ministry of Trade; Prof. in Int. Econs., Univ. of Indonesia; Minister of Manpower, Transmigration and Co-operatives 1971-78, of Mining and Energy 1978-. *Publications:* numerous books on econ. topics. *Address:* Ministry of Mining and Energy, Jakarta, Indonesia.

SUCHARITKUL, Sompong, M.A., D.PHIL., LL.M.; Thai diplomatist and international lawyer; b. 4 Dec. 1931, Bangkok; s. of Phra Phibul Aisawan and Khun Sopha Sucharitkul, m. Thaithow Sucharitkul 1952, one s. two d.; ed. Univs. of Oxford and Paris, Harvard Law School, Middle Temple, London and Int. Law Acad., The Hague; Lecturer in Int. Law and Relations, Chulalongkorn Univ. 1956, also lecturer in Int. Econ. Law, Thammasat Univ.; mem. Nat. Research Council 1959-70; joined Ministry of Foreign Affairs 1959, Sec. to Minister 1964-67, Dir.-Gen. Econ. Dept. 1968-70; Amb. to Netherlands (also accred. to Belgium and Luxembourg) 1970-73, to Japan 1974-77, to France and Portugal 1977-78; Thai Rep. UN Comm. on Int. Trade Law (UNCITRAL) 1967, Perm. Del. to UNESCO 1977-78, mem. UN Int. Law Comm. 1977-; Dir. Gen. Treaty and Legal Dept. Ministry of Foreign Affairs; elected Assoc. l'Inst. de Droit Int. 1973; mem. Civil Aviation Board of Thailand; del. to various int. confs., etc. *Publications:* various books and articles on int. law. *Leisure interest:* golf. *Address:* Treaty and Legal Department, Ministry of Foreign Affairs, Bangkok, Thailand.

SUCHODOLSKI, Bogdan, PH.D.; Polish educator and philosopher; b. 27 Dec. 1903, Sosnowiec; s. of Kazimierz and Helena (Sułowska) Suchodolski; m. Maria Bartczak 1946; one d.; ed. Univs. of Warsaw, Cracow, Berlin and Paris; Prof. of Educ., Warsaw Univ. 1946-68; Dir. Inst. of Pedagogical Sciences, Warsaw Univ. 1958-68; Head, Inst. of History of Science and Technology, Polish Acad. of Sciences 1958-73; mem. Polish Acad. of Science, mem. Presidium 1969-; mem. Int. Assn. for Advancement of Educational Research, Pres. 1969-73; mem. European Assn. of Comparative Educ., Vice-Pres. 1964-71; mem. Int. Acad. for History of Science, Vice-Pres. 1968-71; Prof. Emer. 1974-; Chair. Comm. of Science, Culture and Educ. in Cttee. "Poland 2000"; Order of Banner of Labour 1st Class, Commdr. Cross of Order Polonia Restituta and others. *Publications:* Uspołecznienie kultury (Dissemination of Culture) 1937, 1947, Wychowanie dla przyszłości (Educ. for the Future) 1947, 1959, 1968 (trans. into Hungarian, Italian and Spanish), U Podstaw materialistycznej teorii wychowania (Foundations of the materialist theory of education) (trans. into German, Spanish, Portuguese, and Italian) 1957, La Pédagogie et les grands courants philosophiques 1960 (trans. into Italian and Romanian), Narodziny nowożytnej filozofii czołwieka (Origins of Modern Philosophy of Man) 1963, 1968 (trans. into Serbian and French), Rozwój nowożytnej filozofii człowieka (Devt. of Modern Philosophy of Man) 1967, Podstawy wychowania socjalistycznego (Foundations of Socialist Education) 1967, (trans. into Italian and Czech), Trzy pedagogiki (Three Pedagogies) 1970 (trans. into Serbian), La Scuola Polacca 1971, Labirynty współczesności (Labyrinths of the Present Time) 1972, 1974, Nasza współczesność a wychowanie (Our Present Time and Education) with Irena Wojnar 1972, Oświata i człowiek przyszłości (Education and Man of the Future) 1974, Kim jest człowiek? (Who is man?) 1974, 1976, Theorie der sozialistischen Bildung 1974; editor, Wielka Encyklopedia Powszechna (Great Encyclopaedia, 13 vols.) 1962-70, Historia Nauki Polskiej (History of Polish Science, 5 vols.) 1970-. *Address:* Ul. Smiała 63 A, 01-526 Warsaw, Poland. *Telephone:* 39-20-27.

SUCHOŇ, Eugen, Prof.; Czechoslovak composer; b. 25 Sept. 1908, Pezinok; s. of Ladislav Suchoň and Serafina Suchoňová Balga; m. Herta Schischitz 1940; two c.; ed. Acad. of Music and Drama, Bratislava and Prague Conservatoire; Prof. of Composition Acad. of Music and Drama, Bratislava 1933-41; Prof. at the Dept. of Musicology and Music Pedagogy, Bratislava Univ. 1949-60, Prof. Philosophical Faculty 1960-; mem. Presidium, Union of Slovak Composers 1970-, Chair. 1972-; mem. Cttee. Union of Czechoslovak Composers, Chair. Oct. 1973-; Deputy to Slovak Nat. Council 1968-; Prof. Coll. of Music and Dramatic Art, Bratislava 1971-; founder of the Slovak Nat. Opera; Corresp. mem., Acad. of Arts of D.D.R.; Dr. h.c. Univ. of Bratislava 1969; Czechoslovak State Prize (3 times), Nat. Artist 1958, Order of Labour 1968; Honoured Artist 1970; Kl. Gottwald State Prize 1973; Order of Victorious February 1978. *Works include:* Sonata for Violin and Piano 1930, String Quartet 1931, Serenade for Wind Quintet 1931, Serenade for String Orchestra 1932, Nox et Solitudo (mezzo-soprano and orchestra) 1932, Little Suite with Passacaglia (orchestra or piano) 1932, Piano Quartet 1933, Fantasy and Burlesque for Violin and Orchestra 1933, 1948, King Svätopluk (overture) 1934, Ballad Suite 1936, Sonatina for Violin and Piano 1937, Psalm of Carpathian Country (chorus and orchestra) 1938, Svätopluk (opera) 1937-39, From the Hills (four male-voice choirs a capella) 1940, Krútňava (opera, The Vortex) 1941-49, Metamorphoses (orchestra) 1951-52, Pictures of Slovakia (six cycles for piano or various instrumental and vocal ensembles) 1955-56, Sinfonietta Rustica (orchestra) 1956, Ad Astra (soprano and orchestra) 1961, Five Songs of Men (mixed chorus a capella) 1962, Six Pieces for String Orchestra 1963, Poème Macabre (violin and piano) 1963, Contemplazioni (reciter and piano) 1964, Partita Rapsodica (piano and orchestra) 1965, Kaleidoskop (six cycles for string orchestra and piano or organ and percussion) 1968, Toccata for Piano 1973, Symphonic Fantasy on B-A-C-H for Organ, String Orchestra and Percussion 1975, Concertino for Clarinet and Orchestra 1977, Prielom Symphony 1976, Elegie (for piano) 1978. *Address:* Union of Czechoslovak Composers, Valdštejnské nam. 4, Prague 1; and Bradlanská ul., Bratislava, Czechoslovakia. *Telephone:* Bratislava 331340.

SUCKSDORFF, Arne Edvard; Swedish film producer; b. 3 Feb. 1917; ed. Stockholm; *films include:* the documentaries Shadow over the Snow, Cliff Face, The Open Road, Rhythm of a City, Summer Interlude, Indian Village, and The Divided World; *also the feature films* The Great Adventure, The Flute and the Arrow, The Boy in the Tree.

SUDREAU, Pierre Robert, L. EN D.; French politician; b. 13 May 1919; m. France Brun 1939; two s. one d.; ed. Ecole des Sciences Politiques, Law and Letters Faculties, Paris Univ.; served 2nd World War, prisoner in Buchenwald; Dir. de Cabinet, Sec. d'Etat à la Présidence du Conseil 1946; Joint Dir. Gen., Dir. of Admin. and Gen. Affairs, Sûreté Nationale 1947; Dir. Financial Services, Ministry of the Interior 1949; Prefect, Loir-et-Cher 1951-55; Sec. Gen. Seine Préfecture, Commr. for Reconstruction and Town Planning, Paris Region 1955-58; Minister of Housing (De Gaulle cabinet) 1958-59; Minister of Construction (Debré cabinet) 1959-62, of Educ. (Pompidou cabinet) 1962; Deputy for Loir-et-Cher 1967-; mem. Union Centriste group in Nat. Assembly; Pres. Fédération des Industries Ferroviaires; Pres. Conseil français du mouvement européen 1968-72, Hon. Pres. 1972-; Pres. Comité Nat. pour l'aménagement du territoire français 1970-; Mayor of Blois 1971-; Pres. Cttee. on Industrial Reform 1974; Commdr. Légion d'honneur, Croix de guerre, Médaille de la Résistance, Commdr. des Palmes académiques. *Publication:* L'Enchaînement 1967. *Address:* 12 rue Bixio, Paris 7e, France.

SUDYETS, Marshal Vladimir Aleksandrovich; Soviet army officer; b. 23 Oct. 1904, Nizhnedneprovsk, Ukraine; ed. Soviet Armed Forces Technical School and Acad. of General Staff; mem. CPSU 1924-; Soviet Army 1925-, held successively command posts in Soviet Fighter and Bomber Commands; Chief of Gen. Staff and Dep. C.-in-C. Soviet Air Forces 1946-49; Head, Officer Training, then Commdr. Air Army 1951-55; Marshal of Aviation 1955-; Deputy C.-in-C. Soviet Air Force, Commdr. Long Range Bomber Force 1958-62; C.-in-C. Anti-Aircraft Defences and Deputy Minister of Defence U.S.S.R. 1962-66; Insp.-Gen. Ministry of Defence 1966-; Candidate mem. Central Cttee. CPSU 1961-66; Deputy to U.S.S.R. Supreme Soviet 1961-66; Hero of the Soviet Union 1945, Orders of Lenin (4), Gold Star Medal Suvorov (2), Kutuzov, Red Banner (4), Red Star; Hon. K.B.E., and other decorations. *Address:* Ministry of Defence, Naberezhnaya M. Thoreza 1934, Moscow, U.S.S.R.

SUENENS, H. E. Cardinal Leo Jozef, D.D., PH.D., B.C.L.; Belgian ecclesiastic; b. 16 July 1904, Ixelles; ed. Pontifical Gregorian Univ., Rome; ordained Priest 1927; Teacher, Inst. Sainte-Marie, Brussels 1929; Lecturer in Philosophy, Malines Seminary 1930-40; Vice-Rector, Louvain Univ. 1940-45; Private Chamberlain to Pope 1941; Auxiliary Bishop and Vicar-Gen. of Archdiocese of Malines 1945-61; Archbishop of Malines-Brussels and Primate of Belgium 1961-; created Cardinal 1962; Moderator of Vatican Council 1962-65; mem. Pontifical Comm. for Revision of Canon Law 1962-; Pres. Belgian Bishops' Conf. 1966-; Templeton Foundation Prize 1976. *Publications:* Theology of the Apostolate of the Legion of Mary, Edel-Mary Quinn, The Right View on Moral Rearmament, The Gospel to Every Creature, Mary the Mother of God, Love and Control, The Nun in the World, Christian Life Day by Day, Co-responsibility in the Church, The Future of the Christian Church, A New Pentecost? Ecumenism and Charismatic Renewal. *Address:* Aartsbisdom, Wollemarkt 15, 2800 Mechelen, Belgium. *Telephone:* 015-21-65-01.

SUESS, Hans Eduard, PH.D.; American professor of geochemistry; b. 16 Dec. 1909, Vienna, Austria; s. of Franz Eduard Suess and Olga Frenzl; m. Ruth V. Teuteberg 1940; one s. one d.; ed. Univ. of Vienna; Instructor Univ. of Vienna 1933-35; Research Asst., Fed. Technical High School, Zurich, Switzerland 1935-36, Univ. of Hamburg, Germany 1937-39; Asst. Prof. 1940-47, Assoc. Prof. 1948-50; Research Fellow, Univ. of Chicago, U.S. 1950-51; Physical Chemist, U.S. Geological Survey, Washington, D.C. 1951-55; Research Chemist, Scripps Inst. of Oceanography, La Jolla, Calif. 1955-58; Prof. of Chem. Univ. of Calif., San Diego 1958-; Guggenheim Fellow 1966; mem. American Acad. of Arts and Science, N.A.S., Austrian and Heidelberg Acads. of Sciences Max Planck Soc.; Gold Medal of American Geochem. Soc. (Goldschmidt Medal) 1974. *Publications:* 130, in Geochemistry, Oceanography, Nuclear Physics and Cosmochemistry. *Address:* Department of Chemistry, University of California, San Diego, La Jolla, Calif. 92093, U.S.A. *Telephone:* 714-453-0183.

SUEYOSHI, Toshio, B.A.(ECON.); Japanese business executive; b. 13 Feb. 1907, Tokyo; s. of Yasuma Sueyoshi and Masu Hamada; m. Hiroko Watanabe 1936; three s. one d.; ed. Tokyo Univ. of Commerce; Mitsui Mining Co. 1930-31; Miike Nitrogen Industries Co. 1931-37; Toyo Koatsu Industries Inc. 1937-68, Dir. 1947-55; Man. Dir. 1955-57, Vice-Pres. 1957-68; Vice-Pres. Mitsui Toatsu Chemicals Inc. 1968-70, Pres. 1970-; Pres. Japan Phosphatic and Compound Fertilizers Mfrs. Assen. 1971; Blue Ribbon Medal 1968. *Leisure interests:* golf, mahjong, "Go". *Address:* Mitsui Toatsu Chemicals Inc., 2-5, Kasuimgaseki 3-chome, Chiyoda-ku, Tokyo; 45-7, Kitasenzoku 2-chome, Ohta-ku, Tokyo, Japan (Home). *Telephone:* 581-6111 (Office); 729-2270 (Home).

SUGAĬ, Kumi; Japanese painter; b. 1919; ed. Osaka School of Fine Arts; one-man shows, Galerie Cruen, Paris, Palais des Beaux Arts, Brussels 1954, St. George's Gallery, London 1955, Galerie Legendre, Paris 1957; rep. at Pittsburgh Carnegie Int. Exhbn. 1955, and Salon des Réalités Nouvelles 1956, 1957, Salon de Mai 1957, 1958, Salon Biennale 1957 (all Paris) and Dunn Int. Exhbn., London 1963; Int. Painting Prize, São Paulo Bienal 1965. *Publication:* La Quête sans Fin. *Address:* Paris, France.

SUGDEN, Theodore Morris, C.B.E., F.R.S., PH.D., SC.D.; British physical chemist and university administrator; b. 31 Dec. 1919, Halifax; s. of Frederick Morris and Florence (Chadwick) Sugden; m. Marian Florence Cotton 1945; one s.; ed. Sowerby Bridge Grammar School, Jesus Coll., Cambridge; Stokes Student, Pembroke Coll. Cambridge 1945-46; Demonstrator in Physical Chem., Cambridge Univ. 1946-52, H.O. Jones Lecturer 1952-59, Fellow of Queen's Coll. 1957-64, Reader in Physical Chem. 1959-64; Dir. Thornton Research Centre, Shell Research Ltd. 1964-75, Chief Exec. Shell Research Ltd. 1974-75; Assoc. Prof. in Molecular Sciences, Warwick Univ. 1965-73; Visiting Prof. Imperial Coll. of Science and Tech., London Univ. 1974-75; Master of Trinity Hall, Cambridge Univ. 1976-; Chair. British Nat. Cttee. for Chemistry 1972-78; Physical Sec. of Royal Soc. 1978-; Pres. Chemical Soc. 1978-79; Davy Medal, Royal Soc. 1975, Egerton Medal, Combustion Inst. 1976; Hon. D. Tech. (Bradford) 1967, Hon. D.Sc. (York Univ., Ont.) 1972, (Liverpool) 1977, (Leeds) 1978. *Publications:* Microwave Spectroscopy of Gases (with C.N. Kenney) 1965, scientific papers in Proceedings of the Royal Society, Transactions of the Faraday Society, Journal of the Chemical Society and other major scientific journals. *Leisure interests:* music (piano), gardening, fell-walking, Japanese language. *Address:* The Master's Lodge, Trinity Hall, Cambridge, CB2 1TJ, England.

SUGITANI, Takeo, B.L.; Japanese banker; b. 7 Aug. 1903, Miyagi Pref.; s. of Taizan and Tai Sugitani; m. Miho Tayui 1928; one d.; ed. Tokyo Imperial Univ.; joined the Mitsui Trust Co. Ltd. 1926; Dir. The Tokyo Trust & Banking Co. Ltd. 1948; Man. Dir. The Mitsui Trust and Banking Co. Ltd. 1953, Pres. 1960-68, Chair. 1968-71, Counsellor 1971-; Auditor, Mitsui Petrochemical Industries Ltd. 1967-; Adviser, Mitsui Real Estate Co. Ltd. 1961-, Mitsui Mining Co. Ltd. 1964-; Counsellor, Auditor Japan Women's Univ. 1973. *Leisure interests:* reading, golf. *Address:* The Mitsui Trust & Banking Co. Ltd., 1-1 Nihonbashi-Muromachi, 2-chome, Chuo-ku, Tokyo; 14-5 Meguro 3-chome, Meguro-ku, Tokyo, Japan. *Telephone:* 03-712-1600.

SUGIURA, Binsuke; Japanese banker; b. 13 Nov. 1911, Tokyo; s. of Kenyichi and Toshi Sugiura; m. Chizuko Hayashida 1939; three d.; ed. Tokyo Univ.; Director, Long-Term Credit Bank of Japan Ltd. 1958-61, Man. Dir. 1961-68, Senior Man. Dir. 1968-69, Deputy Pres. 1969-71, Pres. 1971-78, Chair. June 1979-; Medal with Blue Ribbon. *Leisure interest:* golf. *Address:* The Long-Term Credit Bank of Japan Ltd., 2-4, Otemachi 1-chome, Chiyoda-ku, Tokyo 100; 31-5, Kami-Meguro 3-chome, Meguro-ku, Tokyo 153, Japan (Home). *Telephone:* 211-5111 (Office); 719-5505 (Home).

SUHARTO, Gen., T.N.I.; Indonesian army officer and politician; b. 8 June 1921, Kemusa, Yogjakarta; m. Siti Hartinah 1947; six c.; ed. military schools and Indonesian Army Staff and Command Coll.; Officer in Japanese-sponsored Indonesian Army 1943; Battalion, later Regimental, Commdr. Yogjakarta 1945-50; Regimental Commdr., Central Java 1953; Brig.-Gen. 1960, Maj.-Gen. 1962; Deputy Chief of Army Staff 1960-65; Chief of Army Staff 1965-68, Supreme Commdr. 1968-73; Minister of Army 1965; assumed emergency exec. powers March 1966; Deputy Prime Minister for Defence and Security 1966; Chair. of Presidium of Cabinet, in charge of Defence and Security, also Minister of Army 1966-67; Full Gen. 1966; Acting Pres. of Indonesia 1967-68; Prime Minister 1967, concurrently Minister for Defence and Security 1967-73; Pres. of Indonesia March 1968-. *Address:* Office of the President, 15 Jalan Merdeka Utara, Jakarta; 8 Jalan Tjendana, Jakarta, Indonesia (Home).

SUITNER, Otmar; Austrian conductor; b. 16 May 1922, Innsbruck; s. of Karl Suitner and Maria Rizzi; m. Marita Wilckens 1948; ed. Pädagogium Innsbrück, Mozarteum Salzburg; Music Dir. in Remscheid 1952-57; Gen. Dir. of Pfalz-orchester in Ludwigshafen/Rh. 1957-60; Gen. Dir. of State Opera Dresden 1960-64; Gen. Dir. German State Opera Berlin 1964-; Hon. Conductor Nippon Hoso Kyokai Orchestra, Tokyo 1973; Guest Conductor San Francisco, Tokyo, Vienna, Bayreuth Festival, etc.; many recordings; led course for conductors, Int. Summer Acad. Univ. Mozarteum, Salzburg 1975, 1976; Prof. 1968; Prof. in Conducting, Hochschule für Musik, Vienna 1977-; Commendatore, Gregorian Order 1973. *Address:* Berlin-Niederschönhausen, Platanenstr. 13, German Democratic Republic; and Widerhoferplatz 4/48, A-1090 Vienna, Austria.

SUITS, Chauncey Guy, B.A., D.SC.; American physicist; b. 12 March 1905; ed. Univ. of Wisconsin and Swiss Fed. Inst. of Technology; Physics Consultant, U.S. Forest Products Laboratory, Madison, Wis. 1929-30; Research Physicist, Gen. Electric Co., Research Laboratory, Schenectady, N.Y. 1930-40, Asst. to Dir. 1940-45; Vice-Pres. and Dir. of Research 1945-66; Chief, Div. 15 of Nat. Defence Research Cttee. of Office of Scientific Research and Development, Govt., and mem. Div. 14 of N.D.R.C. of O.S.R.D. 1942-46; mem. Naval Research Advisory Cttee. 1956-64, Chair. 1958-61; mem. N.Y. State Science and Tech. Foundation 1965-, Vice-Chair. 1968-; Consultant Industrial Research Management; founding mem. Nat. Acad. of Engineering; mem. Nat. Acad. of Sciences, American Philosophical Soc.; Silliman Lecturer, Yale Univ. 1952; Hon. D.Sc. (Union and Hamilton Colls., Drexel Inst. of Technology, Marquette Univ.), Hon. D.Eng. (Rensselaer Polytechnic Inst.) 1959; H.M. Medal for Service in the Cause of Freedom 1948; Medal for Merit 1948; Procter Prize Award-RESA 1958; Medal of Industrial Research Inst. 1962; Medal of American Soc. for Metals 1966; Frederik Philips Award I.E.E.E. 1974. *Address:* Crosswinds, Pilot Knob, N.Y. 12844, U.S.A. (Home).

SUK, Josef; Czechoslovak violinist; b. 8 Aug. 1929, Prague; great-grandson of Antonin Dvořak; grandson of Josef Suk; ed. Prague Conservatory and studied with Jaroslav Kocian; First violinist, Prague String Quartet 1950; founded Suk Trio 1952; has performed ■■■ soloist or with trio throughout the world; Grand Prix du Disque 1960, 1966, 1968, 1974, 1978, Czechoslovak State Prize 1964, Edison Prize 1972, Wiener Flötenuhr 1974, Honoured Artist 1970, National Artist 1977. *Address:* Karlovo Namesti 5, 12000 Prague 2, Czechoslovakia. *Telephone:* 299407.

SUKATI, Samuel Thornton Msindazwe, M.B.E., B.A.; Swazi diplomatist; b. 11 June 1910, Manzini District; s. of Chief Lomadokola and Landvwako Sukati; m. Grissel Thokozile (née Nkumane) 1937; four s. four d.; ed. school at Zombodze and Lovedale Inst., Cape Province, South Africa; First Swazi Revenue Clerk, Swaziland Govt. 1935; Senior Liaison Officer between Swazi King and Central Govt. 1944; First Establishment Officer, Swaziland Govt., and first Swazi to be in Senior and Pensionable Service 1950; attended Overseas Civil Service Course, London Junior of Econs. 1955; Chair. Council of Univ. of Botswana, Lesotho and Swaziland 1966; First Speaker House of Assembly 1967; Amb. of Kingdom of Swaziland to U.S.A., Amb. and Perm. Rep. to UN, and High Commr. in Canada 1968-73; mem. UN Cttee. for Elimination of all forms of racial discrimination 1969-73; Exec. Chair. Nat. Industrial Devt. Corpn. of Swaziland 1973-; Hon. LL.D. 1968; Certificate of Honour and Badge 1945. *Leisure interest:* reading. *Address:* National Industrial Development Corporation of Swaziland, P.O. Box 866, Mbabane, Swaziland. *Telephone:* Mbabane 2833.

SUKHADIA, Mohan Lal, L.E.E.; Indian politician; b. 1916, Jhalawar, Rajasthan; s. of Shri Purshottamdras; m. Smt Indubala Sukhadia; two s. five d.; ed. Nathdwara (Udaipur) and Bombay

Univ.; active mem. Praja Mandal org. in fmr. Mewar State 1939-; interned during "Quit India" movement 1942; fmr. Minister for Civil Supplies, Post-War Development, Relief and Rehabilitation, Mewar State 1946; Minister of Development when State of Rajasthan was first formed; mem. Rajashtan Legislative Ass.; Minister for Civil Supplies, Agric. and Irrigation 1951-52, Minister for Revenue (except Forests and Co-operation) and Famine Relief 1952-54; Chief Minister, Rajasthan 1954-71; Gov. of Karnataka (fmrly. Mysore) 1972-75, of Andhra Pradesh 1975-76, of Tamil Nadu June 1976-77; LL.D. h.c., Univ. of Udaipur 1974; Congress Party. *Leisure interests:* cricket, indoor games, social studies. *Address:* Raj Bhavan, Madras, Tamil Nadu, India.

SUKSELAINEN, Vieno Johannes; Finnish economist and politician; b. 12 Oct. 1906, Paimio; m. Elma Bonden 1938; three s. one d.; Lecturer School of Social Sciences, Helsinki 1939; Sec. to Prime Minister 1941-45; teacher of political economics, Univ. of Turku 1945-47; Prof. School of Social Sciences, Univ. of Tampere 1947-54, Rector 1953-54, Chancellor 1969-78; Pres. of the Agrarian Union 1945-64; mem. Finnish Parl. 1948-70, 1972-, Speaker 1956-57, 1958-59, 1968-70, 1972-75; Minister of Finance 1950-51 and 1954; Minister of Interior 1951-53; Gen. Dir. People's Pension Inst. 1954-71; Prime Minister May-Nov. 1957, 1959-61; mem. Nordic Council, Pres. 1972, 1977. *Leisure interest:* agriculture. *Address:* Tapiola, Finland. *Telephone:* Helsinki 462189.

SULEIMAN, Ahmed; Sudanese diplomatist; b. 1924; ed. Faculty of Law, Cairo Univ.; Minister of Agric. 1964; Deputy to Constituent Assembly; fmr. Chair. Sudan Peace Cttee.; Amb. to U.S.S.R. 1969-Oct. 1969; Minister of Economy and Foreign Trade Oct. 1969-70; Minister of Industry and Mining 1970-71, of Justice 1971-73; Amb. to U.K. 1973-75; has attended many int. confs. sponsored by World Peace Council and Afro-Asian People's Solidarity Org. *Address:* Sudan Embassy, 40 Awolowo Road, Ikoyi, P.O. Box 2428, Lagos, Nigeria.

SULEK, Miroslav; Czechoslovak journalist; b. 15 March 1918, Tábor; s. of Sulek and Bedřiska Sulková; m. Vera Sulková 1968; two d.; ed. Charles Univ., Prague; imprisoned and in underground movement 1940-45; worked in youth and students orgs. 1945-46; posts in District Orgs. of Communist Party of Czechoslovakia, later Central Cttee. 1946-62; Gen. Dir. Czechoslovak News Agency 1962-68; mem. Presidium, Central Cttee. Union of Czechoslovak Journalists 1963-68; Chair. of Board, Photo Int. 1965-68; Amb. to Romania 1970-76, to Egypt, Arab Rep. of Yemen and People's Rep. of Yemen 1977-; Order of 25th Feb. 1948, Resistance Award, Award for Merit in Construction 1965, Order of Labour 1968, Bulgarian Order of Labour. *Leisure interest:* botany. *Address:* 43 Sh. Muhammad Mazhar, Zamalek, Egypt.

SULIOTIS, Elena; Greek soprano opera singer; b. 28 May 1943, Athens; d. of Constantino Souliotis and Gallia Cavalengo; m. Marcello Guerrini 1970; ed. Buenos Aires and Milan; grew up in Argentina; went to Milan and was introduced to Gianandrea Gavazzeni 1962; studied singing with Mercedes Llopart; debut in Cavalleria Rusticana, Teatro San Carlo, Naples 1964; sang Amelia in Un Ballo in Maschera, Trieste 1965 and has since sung frequently throughout Italy; debut at La Scala as Abigail in Nabucco 1966; U.S. debut as Helen of Troy in Mefistofele, Chicago 1966; debut at Covent Garden as Lady Macbeth 1969; has also appeared at Teatro Colon, Buenos Aires and in Rio de Janeiro, São Paulo, Mexico City, New York, Dallas, Philadelphia, San Antonio, Montreal, Paris, Kiel, Lübeck, Höchst, Tokyo, Lisbon, Athens and Madrid; *repertoire includes:* Manon Lescaut, La Giaconda, Macbeth, Norma, Otello, Aida, Luisa Miller, Il Trovatore, Tosca, Loreley, la Forza del Destino, etc.; has recorded Norma, Cavalleria Rusticana, Nabucco, Anna Bolena, Macbeth and arias for Decca; recipient of several prizes. *Leisure interests:* country life, looking after plants and animals. *Address:* Villa il Poderino, Via Incontri 38, Florence, Italy; Herbert H. Breslin, Inc., 119 West 57th Street, Room 1505, New York 10019, U.S.A.

SULLIVAN, Eugene John, B.S., M.B.A.; American business executive; b. 28 Nov. 1919, New York; s. of Cornelius and Margaret Sullivan; m. Gloria Roesch; three s. one d.; ed. St. John's Univ. and New York Univ.; with Borden Chemical Co. 1946-, Vice-Pres. Sales 1957, Exec. Vice-Pres. 1958-64, Pres. 1964, Vice-Pres. Borden Inc. 1964-67, Exec. Vice-Pres. 1967-73, Dir. 1967-, Pres. 1973-; Dir. Warner Lambert Co., Bank of N.Y.; Adjunct Prof. St. John's Univ. Business School 1974-; Trustee Emigrant Savings Bank, Atlantic Mutual Insurance Co.; Dir. St. Francis Hosp., Long Island; mem. Council, St. John's Univ. Alumni Assn.; Hon. Ph.D. (St. John's Univ.) 1973. *Address:* Borden, Inc., 277 Park Avenue, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 573-4176.

SULLIVAN, Fred R., B.S., M.B.A.; American business executive; b. 22 Aug. 1914, Fort Wayne, Ind.; s. of Walter H. and Grace P. Sullivan; m. Judith O. Omanoff 1967; one s. two d.; ed. Rutgers and New York Univs.; joined Monroe Calculating Machine Co. 1934, Pres. 1953; Monroe merged with and became Div. of Litton Industries Inc. 1958: Senior Vice-Pres. and Dir. Litton Industries 1958-64; Pres. Walter Kidde & Company, Inc. 1964-, Chair. of Board 1966-. *Address:* Walter Kidde & Company, Inc., 9 Brighton Road, Clifton, N.J. 07015, U.S.A. *Telephone:* 201-777-6500.

SULLIVAN, Walter Seager; American journalist and author; b. 12 Jan. 1918, New York City; s. of Walter S. and Jeanet E. L. Sullivan; m. Mary E. Barrett 1950; one s. two d.; ed. Groton School and Yale Univ.; Field Work, Alaska, American Museum of Natural History 1935; New York Times 1940-; U.S. Navy 1940-46; Foreign Corresp., Far East, New York Times 1948-50, UN 1950-52, Germany and Berlin 1952-56, U.S. Antarctic Expeditions 1946-47, 1954-55, 1956-57, 1976, Science News Editor 1960-63, Science Editor 1964-; Gov. Arctic Inst. of North America 1959-66; Councillor, American Geographical Soc. 1959-; Fellow, American Assn. for Advancement of Science; Hon. H.L.D. (Yale), (Newark Coll. of Eng.) 1973; Hon. D.Sc. (Hofstra Univ.) 1975, (Ohio State) 1977; Westinghouse Award of American Assn. for Advancement of Science 1963, 1968, 1972; George Polk Memorial Award, New York 1959; Int. Non-Fiction Book Prize, Frankfurt 1965, Grady Award, American Chemical Soc. 1969, American Inst. Physics U.S. Steel Foundation Award in Physics and Astronomy 1969, Washburn Medal, Boston Museum of Science 1972, Daly Medal, American Geographical Soc. 1973, Ralph Coats Roe Medal, American Soc. Mech. Eng. 1975, Science-in-Society Journalism Award, Nat. Assn. of Science Writers 1976, Distinguished Public Service Award, Nat. Sc. Foundation 1978. *Publications:* Quest for a Continent 1957, White Land of Adventure 1957, Assault on the Unknown 1961, We Are Not Alone 1964, Continents in Motion 1974, Black Holes—The Edge of Space, The End of Time 1979. *Leisure interest:* chamber music. *Address:* New York Times, Times Square, New York (Office); 66 Indian Head Road, Riverside, Conn., U.S.A. (Home). *Telephone:* 203-637-3318.

SULLIVAN, William Healy; American diplomatist; b. 12 Oct. 1922; ed. Brown Univ. and Fletcher School of Law and Diplomacy; U.S. Navy 1943-46; Foreign Service 1947-, served Bangkok 1947-49, Calcutta 1949-50, Tokyo 1950-52, Rome 1952-55, The Hague 1955-58; Officer-in-Charge, Burma Affairs, Dept. of State 1958-59; Foreign Affairs Officer 1959; UN Adviser, Bureau of Far Eastern Affairs 1960-63; Special Asst. to Under-Sec. for Political Affairs 1963-64; Amb. to Laos 1964-69; Deputy Asst. Sec. of State for E. Asia (with special responsibility for Viet-Nam); Amb. to the Philippines 1973-77, to Iran 1977-79. *Address:* c/o Department of State, 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

SULLO, Fiorentino; Italian politician; b. 29 March 1921, Paternopoli, Avelloni; m. Elvira de Laurentiis 1961; one d.; mem. Constituent Assembly 1946-48, Chamber of Deputies 1948-; fmr. Under-Sec. for Defence, Under-Sec. for Industry and Commerce, Under-Sec. for State Participation; Minister of Transport 1960, of Labour and Social Insurance 1960-62, of Public Works and Regions 1962-63, of Educ. 1968-69; Minister without portfolio for scientific and technological research 1972-73, for regions 1973; now Municipal Councillor, Salerno; Editor Le Discussione 1966-69; editorial contributor Roma di Napoli; Pres. Christian Democrat group in Parl. 1968; resigned from Christian Democrat Party 1974; mem. Social Democrat Party 1974-; Co-Pres. Italy-U.S.S.R. Cultural Assn. *Leisure interest:* tennis. *Address:* Via Venanzio Fortunato 54, Rome, Italy. *Telephone:* 345 10 31.

SULMAN AL-KHALIFA, H. H. Shaikh Isa bin (*see* Khalifa, H. H. Shaikh Isa bin Sulman al-).

SULTAN IBN ABDUL AZIZ, H.R.H. Prince; Saudi Arabian politician; b. 1924; s. of the late King Abdul Aziz ibn Saud; brother of King Khalid (*q.v.*); fmr. Minister of Communications; Minister of Defence and Aviation 1962-. *Address:* Ministry of Defence, Jeddah, Saudi Arabia.

SULZBERGER, Arthur Ochs; American newspaper executive; b. 5 Feb. 1926, New York; s. of Arthur Hays and Iphigene Ochs Sulzberger; ed. Columbia Univ.; U.S. Marine Corps, Second World War and Korean War; The New York Times Co., New York City 1951-, Asst. Treas. 1958-63, Pres. and Publisher 1963-; Dir., Times Printing Co., Chattanooga, Gaspesia Pulp and Paper Co. Ltd. of Canada; Chair. Teaching Systems and Resources Corpn.; Trustee Columbia Univ., mem. Coll. Council. *Address:* 229 West 43rd Street, New York, N.Y. 10036, U.S.A. *Telephone:* 556-1234.

SULZBERGER, Cyrus Leo, B.S.; American author; b. 27 Oct. 1912; m. Marina Tatiana 1942 (died 1976); one s. one d.; ed. Harvard Univ.; Former columnist for New York Times; Pulitzer Prize 1951; Overseas Press Club of America awards 1957, 1970, 1973. *Publications:* Sit Down with John L. Lewis 1938, The Big Thaw 1956, What's Wrong with U.S. Foreign Policy 1959, My Brother Death 1961, The Test: de Gaulle and Algeria 1962, Unfinished Revolution 1965, History of World War II 1966, A Long Row of Candles, Memoirs and Diaries 1934-54 1969, The Last of the Giants 1970, The Tooth Merchant 1973, Unconquered Souls—The Resistentialists 1973, The Age of Mediocrity 1973, The Coldest War—Russia's Game in China 1974, Postscript with a Chinese Accent 1974, Go Gentle Into the Night 1976, The Fall of Eagles 1977, Seven Continents and Forty Years 1977, The Tallest Liar 1977. *Address:* Spetsais, Greece.

SULZER, Georg; Swiss mechanical engineer and business executive; b. 29 Dec. 1909, Winterthur; m. Lilo Schwarzenbach 1943; one s. two d.; ed. Kantonsschule, Winterthur, and Eidgenössiche Technische Hochschule, Zürich; direct descendant (fourth generation) of founders of Sulzer Brothers; joined Sulzer Brothers 1934, started in Technical Draftsman's School, spent three years with Sulzer Brothers, Paris; Man. Diesel Engine Sales Dept., Sulzer Brothers 1945-48, Man. Dir., Sulzer Brothers 1948-75, Chair. of Board 1959-; mem. Board of Swiss Nat. Bank. *Address:* Rychenbergstrasse 85, CH-8400 Winterthur, Switzerland. *Telephone:* 22-14-43.

SUMA, Michika Michiaki; Japanese diplomatist; born 25 Jan. 1918, Tokyo; s. of Yakichiro and Hara Suma; m. Yoshiko Arai; one s. two d.; ed. Univ. of Tokyo; Dir., Third Division, Asian Affairs Bureau, Ministry of Foreign Affairs 1957; Dir. South-East Asian Div., Asian Affairs Bureau, Ministry of Foreign Affairs 1958; Dir., American Affairs Div., Econ. Affairs Bureau 1958; Consul, Consulate General, New York 1961; Counsellor, Embassy to The Netherlands 1964; Deputy Dir. Gen., Econ. Affairs Bureau 1966; Amb. to Tanzania 1969; Consul-Gen., Hong Kong 1972; Amb. to Malaysia 1974; Dir.-Gen. Osaka Liason Office, Ministry of Foreign Affairs 1976; Amb. to Canada 1978-. *Leisure interest:* golf. *Address:* Embassy of Japan, 255 Sussex Drive, Ottawa, K1N 9E6; 725 Acacia Avenue, Rockoliffe Park, Ottawa, Ontario, Canada, K1M 0M3 (Residence).

SUMMER, James A.; American business executive; b. 12 June 1923, Dallas, Tex.; m.; four c.; ed. Southern Methodist Univ., and U.S. Mil. Acad. and Univ. of Michigan; fmr. Officer, U.S.A.F.; Export Man. Lycoming Div., Avco Corpn. 1957, subsequently directed radar and satellite systems projects, Advanced Research and Devt. Div. until 1960; joined Gen. Mills Inc. 1960, Gen. Man. Electronics Div. 1962, Corporate Controller 1965; Man. Dir. Smiths Food Group Ltd., U.K. (now a subsidiary of Gen. Mills) 1967-; Dir., Exec. Vice-Pres. and Chief Operating Officer, Gen. Mills 1968, Pres. and Chief Operating Officer 1969-, Vice-Chair. of Board, Chief Devt. and Financial Officer 1973-; Dir. Northwestern Nat. Bank of Minneapolis. *Address:* 9200 Wayzata Boulevard, Minneapolis, Minn. 55426 (Office); Route 2, Box 315, Excelsior, Minn. 55331, U.S.A. (Home).

SUMMERSKILL, Baroness (Life Peeress) cr. 1961, of Ken Wood in the County of London; **Edith Clara Summerskill,** P.C., C.H., LL.D.; British physician and politician; b. 1901, London; d. of William and Edith Summerskill; m. Dr. E. Jeffrey Samuel 1925; one s. one d.; ed. King's Coll., London, and Charing Cross Hospital; qualified Doctor 1924; Vice-Pres. Socialist Medical Assn.; Labour M.P. for West Fulham 1938-55, Warrington 1955-61; Chair. Labour Party 1954-55; mem. Middx. County Council for Green Lanes Div. of Tottenham 1934-41; mem. Cttee. on Women's Services 1942, Women's Consultative Cttee. to Ministry of Labour, Women-Power Cttee.; Pres. Married Women's Assn.; Parl. Sec. Ministry of Food 1945-50; Minister of Nat. Insurance 1950-51; mem. Political Honours Scrutiny Cttee. 1967-76; Hon. LL.D. (Newfoundland) 1968. *Publications:* Women, Fall In 1941, Babies Without Tears 1941, The Ignoble Art 1956, Letters to my Daughter 1958, A Woman's World 1967. *Address:* Pond House, Millfield Lane, Highgate, London, N6 6YD, England.

SUMMERSON, Sir John Newenham, C.B.E., F.B.A., F.S.A., A.R.I.B.A.; British architectural historian; b. 25 Nov. 1904, Darlington; s. of Samuel Summerson and Dorothea Newenham; m. Elizabeth Hepworth 1938; three s.; ed. Univ. Coll., London; served in architects' offices and taught Edinburgh Coll. of Art 1929-30, took up architectural journalism; on staff Architect and Building News 1934-40; Deputy Dir. Nat. Bldgs. Record 1940-45; Curator Sir John Soane's Museum 1945-; mem. Royal Comm. on Historical Monuments, Historic Bldgs. Council (Dept. of Environment); Chair. Nat. Council for Diplomas in Art and Design 1960-69; Lecturer in History of Architecture, Birkbeck Coll. 1961-70; Slade Prof. of Fine Art, Oxford 1958-59; Ferens Prof. of Fine Art, Hull 1960-61, 1970-71, Slade Prof. of Fine Art, Cambridge 1966-67; Bampton Lecturer, Columbia 1967-68; Hon. mem. American Acad. of Arts and Sciences; Hon. D.Litt. (Leicester, Oxford, Hull and Newcastle), Hon. D.Sc. (Edinburgh); Royal Gold Medal for Architecture 1976. *Publications:* John Nash 1934, Georgian London 1945, Heavenly Mansions 1949, Sir John Soane 1952, Sir Christopher Wren 1953, Architecture in Britain 1530-1830 (Pelican History of Art) 1953, The Classical Language of Architecture 1964, Book of John Thorpe (Walpole Soc., Vol. XL) 1966, Inigo Jones 1966, Victorian Architecture 1970. *Address:* 1 Eton Villas, London, N.W.3, England. *Telephone:* 01-722 6247.

SUN CHIEN; Chinese government official; worker from Tientsin; Vice-Premier, State Council 1975; alt. mem. 10th Cen. Cttee. CCP 1973. *Address:* People's Republic of China.

SUN CHING-WEN; Chinese politician; b. Hopei Province; Dir. of Propaganda CCP Chahar Provincial Cttee. 1949; Mayor of Changchiak'ou 1950; mem. Chahar Prov. People's Govt. 1950; second Sec. CCP Chahar Prov. Cttee. 1950; Vice-Chair. Chahar People's Prov. Govt. 1952; Dir. Urban Construction Bureau, Ministry of Building 1954-55; mem. State Construction Comm., State Council 1954-58; Deputy Dir., Urban Construction Bureau, State Council 1955-56; Vice-Minister Urban Construction 1957-58, of Building 1958-59, of Petroleum 1959; Vice-Chair. State Capital Construction Comm., State Council 1965; Minister of Chemical Industry 1978-. *Address:* People's Republic of China.

SUN YAT-SEN, Madame (*see* Sung Ch'ing-ling).

SUN YEN-FANG; Chinese economist; Economic Theorist; joined CCP 1924; studied in Soviet Union 1925; engaged in CCP cultural and united front work Shanghai, 1938; Deputy Dir., Dept. of Industry, E. China Mil. and Admin. Cttee. 1949; mem. Financial and Econ. Cttee., E. China Mil. and Admin. Cttee. 1949-54; Pres. Shanghai Coll. of Finance and Econs. 1950-53; Deputy Dir., State Statistics Bureau del. to USSR 1956; Deputy Dir. State Statistics Bureau, State Council 1958-61; Acting Dir. Inst. of Econs., Chinese Acad. of Science 1958; revisited USSR 1959, and again in 1961; attended forum on the "role of nat. economy under socialism", Prague 1960; Dir., Inst. of Econs., Chinese Acad. of Science 1966; purged and criticised for "reactionary political standpoint and economic programme" 1966; rehabilitated 1978. *Publications:* co-editor of National Salvation Handbook 1938; translation of Concise Dictionary of Philosophy by M. Rozentale and P. Uena, 1940. *Address:* People's Republic of China.

SUN YI-JAN; Chinese government official; mem. CCP 11th Cen. Cttee. 1977-; Sec. Shantung Prov. CCP Cttee. 1978-; Vice-Chair. Shantung Prov. Revolutionary Cttee. 1978-; First Political Commissar Shantung Mil. Dist. 1978-; *Address:* People's Republic of China.

SUN YUN-SUAN; Chinese politician; fmr. Minister of Economic Affairs; Prime Minister of Taiwan May 1978-. *Address:* Office of the Prime Minister, Taipei, Taiwan.

SUNAY, Gen. Cevdet; Turkish army officer and politician; b. 10 Feb. 1900; ed. Kuleli Military Lyceum, Istanbul and Military Acad.; with Turkish Army 1916-66; served in Palestine 1917, later under Atatürk; Capt. 1930; Officer Operations Dept. Gen. Staff 1933; Teacher Mil. Acad. 1942-47; Commdr. Artillery Regt. 1947; Chief Operations Dept. Gen. Staff; Gen. 1959; Deputy Chief Gen. Staff Aug. 1958-May 1960; C.-in-C. Land Forces 1960, Chief of Staff Aug. 1960-66; Senator 1966, 1973-; Pres. of Turkey 1966-73; Hon. K.C.B. 1967. *Address:* Akbaş sok. Botanik Apt. 2/5, Çankaya-Ankara, Turkey.

SUNADA, Shigetami; Japanese politician; s. of late Shigemasa Sunada; mem. House of Reps. 1963-72, 1976-; fmr. Private Sec. to Ichiro Kono; fmr. Deputy Sec.-Gen., Liberal-Democratic Party; fmr. Parl. Vice-Minister of Home Affairs, then Deputy Dir.-Gen. of Prime Minister's Office; Minister of Education 1977-79. *Address:* c/o Ministry of Education, 2-2, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, Japan.

SUNDBLAD, Erik; Swedish business executive; b. 26 Jan. 1929, Hudiksvall; s. of Dr. Gunnar Sundblad and Hildur Aberg; m. Brita Bergman 1954; four s.; ed. Royal Univ. of Technology; Asst. Technical Man., Uddeholms AB 1953-61; Pres. Wifstavarfs AB 1961-66; Pres. Stora Kopparbergs Bergslags AB 1966-. *Address:* Stora Kopperbergs Bergslags AB, Fack, S-791 01 Falun 1, Sweden. *Telephone:* 023-80000.

SUNDBY, (Carl) Olof (Werner), B.A., D.D.; Swedish ecclesiastic; b. 6 Dec. 1917, Karlskoga; s. of Josef Sundby and Gerda Gustafson; m. Birgitta Nordfors 1944; one s. three d.; ed. Univ. of Lund; ordained 1943; Parish Curate; Mil. Chaplain; Prison Chaplain; Diocesan Youth Pastor, Karlstad 1944; Senior Lecturer on Theological Ethics, Univ. of Lund 1959; Rector of St. Peter, Lund 1960; Bishop of Växjö 1970; Archbishop of Uppsala 1972-; Pres. Swedish Ecumenical Council; Chair. Swedish Section, Lutheran World Fed.; mem. Cen. Cttee., mem. Exec. Cttee., World Council of Churches; mem. Presidium Dec. 1975-. *Publications:* Lutheran Conception of Marriage 1959, Pastoral Letter to the Diocese of Växjö 1970. *Leisure interests:* tennis, skiing. *Address:* P.O. Box 640, 751-27 Uppsala 1, Sweden. *Telephone:* (018) 15-53-40 (Office); (018) 10-39-16.

SUNDERLAND, Sir Sydney, Kt., C.M.G., D.SC., M.D., B.S., F.R.A.C.P., F.R.A.C.S., F.A.A.; Australian anatomist; b. 31 Dec. 1910, Brisbane; m. Nina Johnston 1939; one s.; ed. Melbourne Univ.; Senior Lecturer in Anatomy, Melbourne Univ. 1936-37; Asst. Neurologist Alfred Hospital Melbourne 1936-37; Demonstrator Dept. of Human Anatomy, Oxford 1938-39; Prof. of Anatomy and Histology, Melbourne Univ. 1939-61, of Experimental Neurology 1961-75, Dean Medical Faculty 1953-71, Prof. Emer. 1976-; Visiting Specialist, injuries of the peripheral nervous system, Australian Gen. Mil. Hosp. 1941-45; Visiting Prof. of Anatomy, Johns Hopkins Univ. 1953-54; mem. Nat. Health and Medical Research Council of Australia 1953-69; Foundation Fellow and Sec. for Biological Sciences, Australian Acad. of Sciences 1955-58; Trustee, Nat. Museum of Victoria 1954-, Van Cleef Foundation 1971; mem. Zool. Board of Victoria 1944-65; Deputy Chair. Advisory Cttee. of Victorian Mental Hygiene Authority 1952-63; rep. Pacific Science Council 1957-69; mem. Defence Research and Devt. Policy Cttee. 1957-75, Medical Services Cttee. 1957-, Commonwealth Dept. of Defence; Nat. Radiation Advisory Cttee. 1957-64, Chair. 1959-64; Chair. Safety Review Cttee. 1961-74, Australian Atomic Energy Comm.; Medical Research Advisory Cttee. of Nat. Health and Medical Research Council 1953-69, Chair. 1964-69; Chair. Protective Chemistry Research Advisory Cttee., Dept. of Supply 1964-73; Vice-Pres. Int. Assn. for Study of Pain 1975-78; mem. Scientific Advisory Cttee. Australian Atomic Energy Comm. 1962-63, Australian Univs. Comm. 1962-75, Cttee. of Management Royal Melbourne Hosp. 1963-71, Victorian Medical Advisory Cttee. 1962-71, Advisory Medical Council of Australia 1970-71; Hon. mem. American Neurological Assn., Australian Assn. of Neurologists, Neurological Soc. of Australasia; Fogarty Scholar-in-Residence, Nat. Insts. of Health, Bethesda, U.S.A. 1972, Sterling Bunnell Lecturer and Visiting Prof. of Orthopedic Surgery, Univ. of Calif. 1977; Gov. Ian Potter Foundation 1964-; mem. Board, Walter and Eliza Hall Inst. 1968-75; Hon. M.D. (Tasmania) 1970, (Queensland) 1975; Hon. LL.D. (Melbourne) 1975, (Monash) 1977. *Publication:* Nerves and Nerve Injuries 1968. *Leisure interest:* tennis. *Address:* Department of Experimental Neurology, University of Melbourne, Parkville 3052, Victoria, Australia. *Telephone:* 203431.

SUNDERLAND, Thomas Elbert, A.B., LL.B., J.D.; American lawyer and business executive; b. 28 April 1907, Ann Arbor, Mich.; s. of Prof. Edson R. and Hannah Dell Read Sunderland; m. Mary Louise Allyn 1946; three d.; ed. Univs. of Michigan, California and Harvard; legal practice, Detroit 1930-31, New York City 1931-48, Chicago 1948-59; U.S. Air Force 1942-46; Gen. Counsel Pan American Petroleum and Transport Co., American Oil Co. 1940-48; Dir., mem. Exec. Cttee. Pan American Petroleum and Transport Co. 1947-54; Gen. Counsel, Dir. Standard Oil Co. (Ind.) 1948-60; Vice-Pres., mem. Exec. Cttee. 1954-60; Pres. and Dir. United Fruit Co. 1960-65, Chair of Board and Dir. 1965-69; Dir. Nat. Cash Register Co., Johns-Manville Corpn., Liberty Mutual Insurance Co., First Nat. Bank of Boston; Univ. of Michigan Nat. Business Leadership Award 1966, Outstanding Achievement Award 1970. *Address:* Suite C-103, 6991 East Camelback Road, Scottsdale, Ariz. 85251 (Office); 5840 East Starlight Way, Paradise Valley, Scottsdale, Ariz. 85253 (Home: winter); 66 Fernwood Road, Brookline, Mass. 02167, U.S.A. (Home: summer). *Telephone:* 602-941-5440 (Office).

SUNESEN, Frede; Danish banker; b. 11 May 1915, Tulstrup; m. Karen Hansen 1938; ed. Commercial Coll., Århus; Bank official 1931-50; Manager Veile Bank 1950-57; mem. Board of Govs., Nat. Bank of Denmark 1957-; mem. Boards of Mortgage Fund for Danish Agriculture 1960, Danish Airlines 1957 and Manufacturing and Manual Industries Finance Corpn. 1958; Commander's Cross. *Address:* Øresundshøj 24, DK 2920 Charlottenlund, Denmark. *Telephone:* (01) 644014.

SUNG CHEN-MING; Chinese politician; Minister of the Petroleum Industry March 1978-. *Address:* People's Republic of China.

SUNG CHIH-KUANG; Chinese diplomatist; b. April 1916, Kwangtung Province; ed. univ.; Counsellor, Embassy in German Democratic Repub.; Deputy Dir. Dept. of W. European Affairs, Ministry of Foreign Affairs; Counsellor, Embassy to France; Amb. to German Democratic Repub. 1970-72, to U.K. 1972-77; Asst. to Minister of Foreign Affairs 1977-. *Address:* c/o Ministry of Foreign Affairs, Peking, People's Republic of China.

SUNG CH'ING-LING; Chinese government official; b. 1894, Shanghai; m. Sun Yat-sen 1915 (died 1925); ed. Wesleyan Coll., U.S.A.; Sec. to Sun Yat-sen 1915; led Left Kuomintang after Kuomintang-CCP split 1927; in Moscow 1927-29; Vice-Chair. Cen. People's Govt. 1949-54; Vice-Chair. People's Repub. of China 1959-74; Perm. Chair. Presidium of Nat. People's Congress, Vice-Chair. Standing Cttee. 1975-; Chair. China Welfare Inst.; Stalin Peace Prize 1951. *Publication:* The Struggle for New China 1952. *Address:* People's Republic of China.

SUNG JEN-CHIUNG; Chinese politician. Seventh Minister of Machine Building 1978-79; Vice-Chair. 5th Nat. Cttee. CPPCC 1978; mem. 11th Cen. Cttee. 1978-. *Address:* People's Republic of China.

SUNG PING; Chinese party official; Vice-Minister, Labour 1953; Vice-Chair. State Planning Comm. 1957-63; Sec. CCP Kansu, and Vice-Chair. Kansu Revolutionary Cttee. 1972, First Sec. CCP Kansu, Chair. Kansu Revolutionary Cttee., and First Political Commissar Kansu Mil. District, PLA 1977-; mem. 11th Cen. Cttee. CCP 1977; Second Police Commissar PLA Lanchow Mil. Region 1978-. *Address:* People's Republic of China.

SUOMALAINEN, Heikki, D.SC.; Finnish biochemist and microbiologist; b. 26 Jan. 1917, Helsinki; s. of Vihtori Suomalainen and Aleksandra (Sanni) Lähde; m. Toini Irma Toivonen 1950; two s.; ed. Univ. of Helsinki; Biochemist, Finnish State Alcohol Monopoly 1941-43, Chief of Biochemical Dept. 1943-51, Head of Research Laboratories 1951-58, Man. of Rajamäki Factories 1955-58, mem. Board of Dirs. and Dir. of Industrial Production and Chem. Research 1958-, Deputy Gen. Man. 1972-; Asst. Prof. of Microbiology, Univ. of Helsinki 1949-, of Biochemistry and Food Chem., Helsinki Univ. of Tech. 1958-; Pres. Finnish Yeast Producers' Corpn. 1959-; Pres. Applied Chem. Div. of Int. Union of Pure and Applied Chem. (IUPAC) 1977-; Pres. Fed. of Finnish Chemical Industry 1978-; mem. Board, Finnish Acad. of Tech. Sciences 1973-; mem. Finnish Acad. of Science and Letters 1974-; Prof. h.c. 1969, Dr.-Ing. h.c. (Tech. Univ. West-Berlin) 1974, Dr. Sci. Agric. h.c. (Leuven) 1978. *Publications:* about 300 reports on biological chemistry, particularly fermentation chemistry, in int. journals. *Leisure interests:* bibliophilism, pictorial arts. *Address:* Alko, Box 350, SF-00101 Helsinki 10, Finland. *Telephone:* 60911.

SUOMELA, Vilho Samuli, PH.D.; Finnish agricultural economist; b. 27 July 1918, Pertteli; s. of Theodor Suomela and Signe Lehtiö; m. Hilkka Soidinsuo 1946; two s.; ed. Helsinki Univ.; Fellow, Helsinki Univ. 1946-50; Man. of Experimental Farm, Helsinki Univ. 1950-52; Dir. of Research Inst. of Agric. Econs. 1952-; Sec. Finnish Acad. 1957-59; Minister of Agric. 1963-64; Planning Dir. Ministry of Agric. 1969-71; Dir.-Gen. Board of Agric. 1971-; Minister of Agric. and Forestry 1971-72; Chair. of the Comm. on Int. Agricultural Affairs. *Publications:* On the Influence of the Location of Fields on Farming 1950, Development of Productivity in Finnish Agriculture 1958. *Leisure interest:* fly fishing. *Address:* Palotie 14E, 01610 Vantaa 61, Finland. *Telephone:* Helsinki 661771 (Office).

SUORTTANEN, Sulo, BARR.-AT-LAW; Finnish politician; b. 13 Feb. 1921, Valkeala; s. of Elias Suorttanen and Amånda Askola; m. Lea Annikki Laakso 1949; one s.; Asst. Police-Inspector, Kymi Admin. District 1958-62; mem. of Parl. 1962-70, 1972-; held numerous high positions in local govt. and in co-operative orgs.; Minister of Defence 1966-70. *Leisure interests:* horse racing, motoring. *Address:* Parliament Building, Helsinki, Finland.

SUPHAMONGKHON, Konthi, LL.B.; Thai lawyer and diplomatist; b. 3 Aug. 1916; ed. Univ. of Moral and Political Sciences, Bangkok and Faculté de Droit, Paris; Chief of Section, Political Div., Ministry of Foreign Affairs 1940-42; Second Sec., Tokyo 1942-44; Chief of Political Div., Western Affairs Dept., Ministry of Foreign Affairs 1944-48, Dir.-Gen. Western Affairs Dept. 1948-50, Dir.-Gen. UN Dept. 1950-52; Minister to Australia 1952-56, Amb. to Australia, concurrently to New Zealand 1956-59; Dir.-Gen. Dept. of Int. Orgs., Ministry of Foreign Affairs 1959-63; Adviser on Foreign Affairs to Prime Minister 1962-64; Sec.-Gen. South East Asia Treaty Organisation (SEATO) 1964-65; Amb. to German Fed. Repub. 1965-70, to U.K. 1970-76; numerous decorations. *Publication:* Thailand and Her Relations with France 1940. *Address:* c/o Ministry of Foreign Affairs, Saranom Palace, Bangkoi, Thailand.

ŠUPKA, Ladislav, ING.; Czechoslovak economist and politician; b. 1 Aug. 1928, Stará Turá; ed. Polytechnic Inst., Sverdlovsk, U.S.S.R.; Chief technologist, factory man., Dep. Dir., Technical Dir., Škoda nat. enterprise, V.I. Lenin Works, Pilsen 1955-65; mem. Econ. Comm. Cen. Cttee. CP of Czechoslovakia 1963-69; mem. State Comm. for Econ., Scientific and Technological Co-operation 1965-67; Deputy Minister for Heavy Industry 1965-69; Deputy Minister-Chair. Fed. Cttee. for Industry 1969; Head, Econ. Dept. Cen. Cttee., CP of Czechoslovakia 1969-70; Minister-Chair. Fed. Cttee. for Technological and Investment Devt. 1970-71; Minister for Technological and Investment Devt. of C.S.S.R. Jan. 1971-; Deputy Chair. Czech Govt. Cttee. for Science and Technology 1971-; Chair. Czechoslovak section, Mixed Comm. for Scientific and Technological Co-operation between Czechoslovak Socialist Repub. and U.S.S.R. 1974-; Deputy House of Nations, Fed. Assembly Oct. 1976-; Order for Outstanding Work 1959, Order of Labour 1978. *Address:* Ministry for Technological and Investment Development, Slezská 9, Prague 2, Czechoslovakia.

SUPPES, Patrick, B.S., PH.D.; American educationist; b. 17 March 1922, Tulsa, Okla.; m. 1st Joan Farmer 1946 (divorced 1970), 2nd Joan Elizabeth Sieber 1970 (divorced 1973); one s. two d.; ed. Univ. of Chicago and Columbia Univ.; mem. faculty Stanford Univ. 1950-, Prof. of Phil., Statistics Educ. and Psychology, Dir. Inst. for Mathematical Studies in the Social Sciences 1959-; Pres. Computer Curriculum Corpn. 1967-; Fellow American Assen. for Advancement of Science, American Psychological Assen.; mem. Nat. Acad. of Educ. 1965-, American Acad. of Arts and Sciences 1968-, Finnish Acad. of Science and Letters 1974-, Nat. Acad. of Sciences 1978-; Palmer O. Johnson Memorial Award, American Educational Research Assen. 1967; Distinguished Scientific Contribution Award, American Psychological Assen. 1972; Columbia Univ. Teachers College Medal for Distinguished Service 1978. *Publications:* Introduction to Logic 1957, Decision Making: An Experimental Approach (with D. Davidson and S. Siegel) 1957, Axiomatic Set Theory 1960, Markov Learning Models for Multiperson Interactions (with R. C. Atkinson) 1960, First Course in Mathematical Logic 1964, Experiments in Second-Language Acquisition (with E. Crothers) 1967, Computer Assisted Instruction: Stanford's 1965-66 Arithmetic Program (with M. Jerman ad D. Brian) 1968, Studies in the Methodology and Foundations of Science 1970, A Probabilistic Theory of Causality 1970, Foundations of Measurement (with D. Krantz, R. D. Luce, A. Tversky) Vol. I 1971, Computer-assisted Instruction at Stanford, 1966-68 (with M. Morningstar); Probabilistic Metaphysics 1974, The Radio Mathematics Project: Nicaragua 1974-1975 (with B. Searle and J. Friend) 1976, and 190 articles in professional journals. *Address:* 678 Mirada Avenue, Stanford, Calif. 94305, U.S.A.

SÜREN, Choynoryn; Mongolian politician; b. 1932; ed. Teacher Training School, Higher School of Eng. and Econs., U.S.S.R.; teacher in various provinces 1949-52; technician in State Construction Directorate 1955-56; expert of State Construction Cttee., Deputy Chair. State Construction Comm. 1959-61; Deputy Minister of Construction and Construction Materials Industry 1961-64; lecturer at Mongolian State Univ., Dir. of Dept. at Construction Research Inst. 1964-67; Deputy Chair. and later Chair. of Exec. Cttee. of Darhan City People's Deputies' Hural (Assembly) 1967-72; Counsellor, Embassy in Moscow 1972-74; Deputy Chair. Council of Ministers 1974-; mem. Mongolian People's Revolutionary Party Cen. Cttee.; Deputy to People's Great Hural (Assembly). *Address:* Government Palace, Ulan Bator, Mongolia.

SUROMIHARDJO, Maj.-Gen. Suadi; Indonesian army officer and diplomatist; b. 1921; ed. Staff Coll., Quetta, Pakistan, Fort Bliss, U.S.A.; Dept. of Interior 1939; 1st Lieutenant Indonesian Army 1942; C.O. (Lt.-Col.) 1st Regiment 10th Div. 1945; mem. U.N. Comm. for Indonesia 1947; Deputy Chief of Staff Diponegoro Div., Central Java 1950; C.O. 21st Regiment VI Div., South Kalimantan 1951; C.O. 23rd Regiment VII Div. South Sulawesi 1954; C.O. Indonesian Contingent UNEF Egypt 1957; Commandant Indonesian Command and General Staff Coll., Bandung 1959; Amb. to Australia 1961-64, to Ethiopia 1964-69; Gov. Indonesia Nat. Defence Council 1968-. *Address:* Lembaga Pertahanan Nasional, Jalan Kebon Sirih 28, Jakarta, Indonesia.

SURREY, Stanley Sterling; American professor and lawyer; b. 3 Oct. 1910, New York, N.Y.; m. Dorothy Mooklar 1938; one s.; ed. Coll. of City of New York and Columbia Univ. Law School; admitted to New York Bar 1933; Research Asst., Columbia Univ. Law School 1932-33; Attorney, Proskauer, Rose and Paskus, New York 1933; Nat. Recovery Admin. Wash. 1933-35; Nat. Labor Relations Board, Wash. 1935-37; U.S. Treasury Dept. 1938-44, 1946-47; Prof. Univ. of Calif. Law School 1947-50, Harvard Law School 1950-61, 1969-; Asst. Sec. for Tax Policy, U.S. Treasury Dept. 1961-69; Vice-Pres. Nat. Tax Assen. (U.S.); mem. American Acad. of Arts and Sciences, Perm. Scientific Cttee. Int. Fiscal Assen.; Special Adviser Group of Experts on Tax Treaties; Consultant U.S. Treasury Dept. *Publications:* Co-Editor Legislation, Cases and Materials 1955, Federal Income Taxation, Cases and Materials Vol. I 1972, Vol. II 1973, Federal Wealth Transfer Taxation, Cases and Materials 1976; Author Pathways to Tax Reform 1973. *Leisure interests:* sailing and photography. *Address:* Harvard Law School, Cambridge, Mass. 02138 (Office); 54 Buckingham Street, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* 617-495-4635.

SUSLOV, Mikhail Andreyevich; Soviet politician; b. 21 Nov. 1902, Shakhovskol, Simbirsk (now Ulyanovsk) Region; ed. Moscow Inst. of Nat. Economy; joined Communist Party 1921; lecturer at Moscow Univ. and at Industrial Acad. 1929-31; exec. post, Central Control Comm. of CPSU and People's Commissariat for Workers' and Peasants' Inspection 1931-36; Sec. Rostov Regional Cttee. of Party 1937-39; First Sec. Stavropol Territorial and City Cttee. of CPSU 1939-44; during war, mem. Mil. Council for North Caucasus front and Chief of Staff, Stavropol Territory partisan detachments; Chair. CPSU Central Cttee. Bureau for Lithuania 1944; held executive positions in Central Cttee. of Party during 1946; Sec. of Central Cttee. 1947-; Ed.-in-Chief Pravda 1949-50; mem. Presidium of U.S.S.R. Supreme Soviet 1950-54; Deputy of U.S.S.R. Supreme Soviet; Chair. Foreign Comm., Soviet of Union of Supreme Soviet of U.S.S.R. 1954-; mem. Cen. Cttee. CPSU 1952-, mem. Presidium, Cen. Cttee. of CPSU 1955-66, Political Bureau 1966-; awarded Order of Lenin (four times), Order of the Patriotic War (1st Class), Hero of Socialist Labour (twice); Hammer and Sickle Gold Medal (two), Order of Oct. Revolution, and other decorations. *Publications:* Selected Works (speeches and articles) 1972. *Address:* CPSU Central Committee, 4 Staraya ploshchad, Moscow, U.S.S.R.

SÜSSENGUTH, Hans, DIPL.ING.; German aviation executive; b. 8 Sept. 1913, Neustadt/Coburg; s. of Franz H. and Rosalie Süssenguth; m. Christa Reischel 1942; one s. one d.; ed. Oberrealschule, Coburg and Technische Hochschule, Darmstadt; Technician in Research and Devt. and Maintenance and Operations Depts. Deutsche Lufthansa A.G., Berlin 1939-45; Engineer in father-in-law's business 1945-50; Engineer at Gummi-Werke Fulda 1950-52; rejoined Lufthansa in Engineering Div., Hamburg 1952, Technical Dir. 1954, Head of Traffic Division 1958, Deputy mem. Exec. Board 1959, mem. 1963-, responsible for sales, worldwide field org., in-flight services and marketing, retd. June 1978, mem. Board Deutsche Lufthansa AG June 1978-; Chair. Advisory Board, Berlin Penta Hotelgesellschaft, DSG-Deutsche Schlafwagen-und Speisewagen-GmbH Frankfurt, AMK-Ausstellungs-Messe-Kongress GmbH, Berlin; mem. Exec. Board and Vice-Pres., German Tourist Board; mem. Advisory Board, Hansa Luftbild GmbH, Münster, Deutscher Aerokurier, Cologne; mem. Board of Trustees, Hessian Inst. for Aviation; mem. Chartered Inst. of Air Transport, London; Dir. START-Datentechnik für Reise und Touristik GmbH, Frankfurt; Hon. Consul Repub. of Togo; Hon. Prof. Technische Univ., Berlin. *Address:* Deutsche Lufthansa AG, 6 Frankfurt/Main-Flughafen, Lufthansa-Basis; 6242 Kronberg/Taunus, Taunusstrasse 2, Federal Republic of Germany (Home). *Telephone:* (0611) 696-2200 (Office); (06173) 79538 (Home).

SUSSKIND, David Howard; American television producer; b. 19 Dec. 1920; ed. Harvard Univ.; Publicity Dept., Warner Bros. also with Universal Picture Corpn. 1946-48; Talent Agent, Century Artists, and Music Corpn. of America 1949-52; Co-owner and Pres. Talent Assocs. Ltd., New York 1952-; Chair. TV Discussion programme Open End 1958-67; The David Susskind Show 1967-, producer TV programmes incl. duPont Show of the Month, Philco Playhouse, and Kraft Theater; Hallmark Hall of Fame The Price 1971; numerous TV awards. *Produced Broadway plays:* A Very Special Baby 1956, Rashomon 1959, Handful of Fire 1958, Kelly 1965, All in Good Time 1965, Brief Lives 1967. *Films:* Edge of the City 1956, Raisin in the Sun 1960, Requiem for a Heavyweight 1961, All the Way Home 1963, Lovers and Other Strangers 1970, Pursuit of Happiness 1971, Straw Dogs 1972, Alice Doesn't Live Here Anymore 1974, All Things Bright and Beautiful 1976, Buffalo Bill and the Indians 1976; *T.V. Programmes:* Festival of Performing Arts, Play of the Week, East Side, West Side. *Address:* 747 3rd Avenue, New York, N.Y. 10017, U.S.A. (Office).

SUSSKIND, (Jan) Walter; British (b. Czechoslovak) musician; b. 1 May 1913; s. of Bruno and Gertrud Seger Susskind; m. Janis Susskind 1973; one s.; ed. State Acad. of Music, Prague; Conductor German Opera, Prague 1933-38; pianist London Czech Trio 1933-42; Principal Conductor, Royal Carl Rosa Opera Co., England 1943-45; Principal Guest Conductor; Sadler's Wells Opera Co. and Glyndebourne Opera (at First Edinburgh Festival) 1945-47; Principal Conductor, Scottish Nat. Orchestra 1946-52; Principal Conductor,

Victorian Symphony Orchestra, Melbourne 1953-55; Music Dir. Mendelssohn Choir, Toronto 1956-64; Musical Dir. Toronto Symphony Orchestra, Toronto, Canada 1956-65; Music Dir. Aspen, Colo., Music Festival 1961-68; Founder Nat. Youth Orchestra of Canada; Music Dir. and Conductor Mississippi River Festival 1969-75; Music Dir. St. Louis Symphony Orchestra 1968-75; Principal Conductor, Int. Festival of Youth Orchestras, Switzerland 1970-71; Music Advisor Cincinnati Symphony Orchestra 1978-; also Guest Conductor of many leading orchestras in the world; over 200 recordings on various labels; frequent piano soloist; orchestral arrangements of piano works by Prokofiev and Debussy; known for his work with youth orchestras and youth conductors; Hon. doctorate (Humanities) (S. Ill.) 1969, Hon. Dr. of Fine Arts, (Washington Univ.) 1975. Works include various compositions for piano, violin, flute, timpani and orchestra, also songs, instrumental music to films and plays. *Address:* c/o Ingpen and Williams, 14 Kensington Court, London, W.8, England.

SUTAMI, Dr.; Indonesian engineer and politician; b. 19 Oct. 1928, Surakarta, Cen. Java; ed. Inst. of Technology, Bandung; employee Hollandse Beton Maatschappij N.V. 1956-58; Dir. Hutama Karya Co. 1959; mem. Indonesian Nat. Research Inst.; Asst. Dean, Technical Faculty, Univ. of Indonesia 1964; Minister of Public Works 1966-77, of Energy 1968-; mem. Indonesian Council of Science 1968. *Address:* Ministry of Energy, Jakarta, Indonesia.

SUTCLIFFE, Reginald Cockcroft, C.B., O.B.E., F.R.S., B.SC., PH.D.; British meteorologist; b. 1904, Wrexham, North Wales; s. of late O. G. Sutcliffe and late Jessie Sutcliffe (née Cockroft); m. Evelyn Williams 1929; two d.; ed. Whitcliffe Mount Grammar School, Cleckheaton, Leeds Univ. and Univ. Coll., Bangor; Professional Asst., Meteorological Office 1927, Met. Office appts. in Malta 1928-32, Felixstowe 1932-35, Air Ministry 1935-37, Thorney Island 1937-39; Sqdn.-Ldr. R.A.F.V.R., France 1939-40; Senior Met. Officer No. 3 Bomber Group, R.A.F. 1941-44; Group Capt.; Chief Met. Officer Allied Expeditionary Air Force (later British Air Forces of Occupation), Germany 1944-46; Research, Met. Office 1946-, Dir. of Research 1957-65; Prof. of Meteorology Reading Univ. 1965-70, Prof. Emer. 1970-; Hon. mem. American Meteorological Soc. 1975; Hon. Fellow Royal Meteorological Soc. 1976; Symons Gold Medal 1955, Buchan Prize 1956, Charles Chree Medal of Physical Soc. 1959, Int. Met. Org. Prize 1963. *Publications:* Meteorology for Aviators 1938, Weather and Climate 1966, meteorological papers in journals. *Leisure interests:* golf, gardening. *Address:* Green Side, Winslow Road, Nash, Milton Keynes, Bucks., MK17 0EJ, England. *Telephone:* Whaddon 343.

SUTERMEISTER, Heinrich; Swiss composer; b. 12 Aug. 1910, Feuerthalen; m. Verena-Maria Renker 1948; one d.; studied philology at Paris and Munich, and music at the Acad. of Music at Munich; Prof. Hochschule für Musik, Hanover 1963-; Pres. Schweizerische Mechanlizenz; mem. Bayerische Akademie der Schauen Künste 1977; Salzburg Opera Prize 1965, Asscn. of Swiss Composers' Prize 1967; *Operas include:* L'araignée noire, Romeo and Juliet, The Tempest, Niobe, Raskolnikoff (Stockholm and Scala, Milan), Botte Rouge, Titus Feuerfuchs (opera burlesque) (Basel and Brussels) 1958, Seraphine, The Canterville Ghost (for television), Madame Bovary (Zürich) 1967; *other works:* Missa da Requiem 1953, three piano concertos 1954, two cello concertos 1953, 1971, 1 concerto for clarinet and orchestra 1974, La Croisade des Enfants 1969 (for television), The Bottle Imp (for television); two divertimenti, eight cantatas, two cello concertos, Te Deum 1975. *Leisure interest:* dog breeding (Belgian shepherd dogs). *Address:* Vaux-sur-Morges, Switzerland. *Telephone:* 021-712833.

SUTHERLAND, Donald McNichol, Canadian actor; b. 17 July 1935, St. John, N.B.; s. of Frederick McLae and Dorothy Isabel (McNichol) Sutherland; m. 1st Lois May Hardwick 1959, 2nd Shirley Jean Douglas 1966; three s. one d.; ed. Bridgewater, N.S., High School, Univ. of Toronto; appeared on television (BBC and ITV) in Hamlet, Man in the Suitcase, The Saint, Gideon's Way, The Avengers, Flight into Danger, Rose Tattoo, March to the Sea, Lee Harvey Oswald, Court Martial, Death of Bessie Smith. *Films include:* The World Ten Times Over 1963, Castle of the Living Dead 1964, Dr. Terror's House of Horrors 1965, Fanatic 1965, The Bedford Incident 1965, Promise Her Anything 1966, The Dirty Dozen 1967, Billion Dollar Brain 1967, Oedipus Rex 1968, Interlude 1968, Joanna 1968, The Split 1968, Start the Revolution Without Me 1969, Act of the Heart 1970, M*A*S*H* 1970, Kelly's Heroes 1970, Little Murders 1970, Alex in Wonderland 1971, Klute 1971, Johnny Got His Gun (as Christ) 1971, Steelyard Blues 1972, Lady Ice 1972, Alien Thunder 1973, Don't Look Now 1973, S*P*Y*S* 1974, The Day of the Locust 1975, 1900 1976, Casanova (Fellini) 1976, The Eagle Has Landed 1977, The Great Train Robbery 1978, Blood Relatives 1978; Pres. McNichol Pictures Inc. *Leisure interests:* sailing, running five miles daily. *Address:* 760 N. La Cienega Boulevard, Los Angeles, Calif. 90069, U.S.A. *Telephone:* (213) 659 6883; (213) 659 4310.

SUTHERLAND, Sir Gordon Brims Black McIvor, Kt., M.A., B.SC., PH.D., SC.D., F.R.S.; British scientist; b. 8 April 1907, Watten, Scotland; s. of Peter Sutherland and Eliza Sutherland (née Morrison); m. Gunborg Wahlstrom 1936; three d.; ed. St. Andrews Univ. and Trinity and Pembroke Colls., Cambridge; Fellow Pembroke Coll. 1935-49; Leverhulme Fellow 1939; Asst. to Dir. of Scientific Research in Ministry of Supply 1940-41; head of group doing infrared research for various Govt. depts. 1941-45; Asst. Dir. in Colloid Science, Cambridge Univ. 1944-47; mem. Council of Senate, Cambridge Univ. 1946-49; Reader in Spectroscopy, Cambridge Univ. 1947-49; Prof. of Physics, Univ. of Michigan 1949-56; Guggenheim Fellow 1956; Dir. Nat. Physical Laboratory, Teddington Sept. 1956-64; Master of Emmanuel Coll., Cambridge 1964-77; Gov. London School of Econs. 1957-65, Northampton Coll. of Advanced Technology 1960-65; mem. Governing Body Coll. of Aeronautics 1957-63; Pres. Triple Comm. for Spectroscopy 1962-63; Vice-Pres. Int. Org. for Biophysics 1961-64, Royal Soc. 1961-63, Int. Union of Pure and Applied Physics 1963-69; Pres. Inst. of Physics and the Physical Soc. 1964-66, Glazebrook Medal 1972; mem. of Council for Scientific Policy 1965-68; Syndic of Cambridge Univ. Press 1965-, Fitzwilliam Museum, Cambridge 1977-; Pres. Section X of British Assen. 1968; Trustee of Nat. Gallery 1971-78; Foreign Hon. mem. American Acad. of Arts and Sciences 1968, American Philosophical Soc. 1977; Hon. Fellow, Pembroke Coll., Cambridge, Wolfson Coll., Cambridge 1977; Hon. LL.D. (St. Andrews), Hon. D.Sc. (Strathclyde). *Publications include:* Infra-red and Raman Spectra 1935. *Leisure interest:* golf. *Address:* 38, Courtyards, Little Shelford, Cambridge, CB2 5ER, England. *Telephone:* Shelford 2497.

SUTHERLAND, Graham Vivian, O.M.; British artist; b. 24 Aug. 1903, London; s. of late G. H. V. Sutherland and of E. Sutherland; m. Kathleen Frances Barry 1928; one s. (deceased); ed. Epsom Coll., Goldsmith Coll. School of Art and London Univ.; exhibited XXX Gallery 1925 and 1928, First Int. Surrealist Exhibition London; Exhibition Rosenberg and Helft Gallery 1938, Leicester Galleries 1940, Curt Valentin, Buchholz Gallery New York 1946, XXVI Biennale, Vienna, Musée Nat. de l'Art Moderne, Paris 1952, Stedelijk Museum, Amsterdam, Kunsthaus, Zürich, Tate Gallery, London 1953, New London Gallery 1962, Galleria d'Arte Moderna, Turin 1965, Haus der Kunst, Munich, Cologne, Hague, Basel 1966-68, Marlborough 1968, 1973, 1977, Milan 1973; works in Tate Gallery, British Museum, Victoria and Albert Museum, London, Museum of Modern Art, New York, Musée de l'Art Moderne, Paris, Musée des Beaux-Arts, Brussels, Albertina, Vienna, Museum des 20 Jahrhunderts Künstmuseum, Basel, New Pinaleotok, Munich; exhbn. Nat. Portrait Gallery, London 1977; Official War Artist during Second World War; Trustee, Tate Gallery 1948-54, Graham Sutherland Gallery, Pembrokeshire 1976-; designed tapestry Christ in Majesty for Coventry Cathedral 1962; Hon. mem. American Acad. of Arts and Letters 1972, Inst. of Arts and Letters; Commdr. Ordre des Arts et des Lettres 1972; Hon. D.Litt. (Oxford) 1962, (Leicester) 1965; Prize, Museum of Modern Art, São Paulo, Foreign Sec.'s Prize, Tokyo, Shakespeare Prize, Hamburg 1974, Citoyen d'honneur, Ville de Menton. *Address:* La Villa Blanche, route de Castellar, 06 Menton, France.

SUTHERLAND, Dame Joan, A.O., D.B.E.; Australian opera singer; b. 7 Nov. 1926, Sydney; d. of William McDonald Sutherland and Muriel Beatrice (née Alston); m. Richard Bonynge (*q.v.*) 1954; one s.; ed. St. Catherine's School, Waverley, Sydney; *début as* Dido in Purcell's Dido and Aeneas, Sydney 1947; Royal Opera Co., Covent Garden, London 1952-; *has sung leading soprano roles at* the Vienna State Opera, La Scala, Milan, Teatro Fenice, Venice, the Paris Opera, Glyndebourne, San Francisco and Chicago Operas, The Metropolitan, New York, etc.; Hon. life mem. Australia Opera Co. 1974, Companion Order of Australia 1975. *Leisure interests:* reading, needlepoint. *Address:* c/o Ingpen and Williams, 14 Kensington Court, London, W.8, England (Home).

SUTHERLAND, Dame Lucy Stuart, D.B.E., F.R.S.A., F.B.A., M.A., D.LITT.; British university professor and public servant; b. 21 June 1903, Geelong, Victoria, Australia; d. of Alexander Sutherland and Margaret Sutherland (née Goddard); ed. Univ. of Witwatersrand, South Africa, and Somerville Coll., Oxford; Fellow and Tutor in Economic History and Politics, Somerville Coll., Oxford 1927-45; Principal and then Asst. Sec. Board of Trade 1941-45; Principal, Lady Margaret Hall, Oxford 1945-71, Hon. Fellow 1971; Pro-Vice-Chancellor, Univ. of Oxford 1960-69; Chair. Lace Working Party 1946; mem. Royal Comm. on Taxation, Profits and Income 1951-55, mem. Univ. Grants Cttee. 1963-68; Foreign Hon. mem. American Acad. of Arts and Sciences 1968; Hon. Litt.D. (Cantab.) 1963,

(Kent) 1967, Hon. LL.B. (Smith Coll. Northampton, Mass.) 1964, Hon. D.Litt. (Glasgow) 1966, (Keele) 1969, Hon. D.Lit. (Belfast) 1970, Hon. D.C.L. (Oxford) 1972. *Publications:* A London Merchant (1695-1774) 1933, The East India Company in Eighteenth-Century Politics 1952; edited (with M. McKisack) Mediaeval Representation and Consent 1936, ed. The Correspondence of Edmund Burke, Vol. II 1960, edited Studies in History, British Academy Lectures 1966, The University of Oxford in the Eighteenth Century 1976, etc. *Leisure interests:* travel, reading. *Address:* 59 Park Town, Oxford, England. *Telephone:* Oxford 56159.

ŠUTKA, Stefan, JU. DR., ING.; Czechoslovak politician; b. 30 Oct. 1921, Velké Vozokany; ed. Faculty of Law, Slovak Univ., Bratislava, School of Economics, Bratislava, and Transport Coll., Žilina; Deputy Minister of Transport, Posts and Telecommunications of Slovak Socialist Republic 1969, Minister 1969-70; Minister of Transport of Č.S.S.R. 1971-75; Head of del. to CMEA Perm. Comm. for Transport 1971-76; mem. Legislative Council of Czechoslovak Govt. July 1971-; Amb. to Norway and Iceland May 1976-; Award of Merit in Construction 1967, Order of Labour 1971. *Address:* Embassy of the Czechoslovak Socialist Republic, 32 Thomas Heftyes Gate, Oslo, Norway.

SUTTON, George Paul, A.A., B.S., M.S.; American engineer; b. 5 Sept. 1920; s. of Frederick and Augusta Sutton; m. Yvonne Barnes; two d.; ed. Los Angeles City Coll. and California Inst. of Technology; Man. Advanced Design, Rocketdyne (N. American Aviation Inc.), Canoga Park, Calif. 1946-58; Hunsaker Prof. of Aeronautical Engineering, Mass. Inst. of Technology 1958; Chief Scientist Advanced Research Projects Agency (Dept. of Defense) 1959-60; Dir. Advanced Research Projects Div. (Inst. of Defense Analyses) 1959-60; Asst. to Pres. North American Rockwell Corpn. 1960-69; Vice-Pres. Envirotech Corpn. 1969-74; Exec. Vice-Pres. Sumitomo Jukikai Envirotech, Inc. 1970-74; Vice-Pres. Johnston Pump Co. 1974-; Fellow American Inst. of Aeronautics and Astronautics; mem. Int. Acad. of Astronautics, several professional socs.; E. G. Pendray Award, American Rocket Soc. 1951. *Publications:* Rocket Propulsion Elements 1949, 1954, 1963, Advanced Propulsion Systems (co-editor) 1959. *Leisure interests:* skiing, stamp collecting. *Address:* Johnston Pump Co., 1775 E. Allen Avenue, Glendora, Calif. 91770 (Office); 725 Bamington Avenue, Apt. 110, Los Angeles, Calif. 90049, U.S.A. (Home).

SUTTON, Sir Graham (*see* Sutton, Sir Oliver Graham).

SUTTON, Leslie Ernest, M.A., D.PHIL., F.R.S.; British chemist; b. 22 June 1906, London; s. of Edgar W. Sutton and Margaret L. W. (Heard) Sutton; m. 1st Catharine V. Stock 1932 (died 1962), two s.; one d.; m. 2nd Rachel A. Long (née Batten) 1963, two s.; ed. Watford Grammar School, Lincoln Coll., Oxford, Leipzig Univ., and Calif. Inst. of Technology; Fellow, Magdalen Coll., Oxford 1932-36; Univ. Lecturer, Oxford 1945-62; Vice-Pres. Magdalen Coll. 1947-48; Fellow and Tutor Magdalen Coll., Oxford 1936-73; Reader in Physical Chem. 1962-73; Fellow Emer. 1973-; Sec. Chemical Soc. 1951-57, Vice-Pres. 1957-60; Visiting Prof. Heidelberg Univ. 1960, 1964, 1967; Baggesgaard Rasmussen Lecturer, Copenhagen 1974; Rockefeller Fellow 1933-34; Meldola Medal (Royal Inst. of Chem.) 1932, Harrison Prize (Chem. Soc.) 1935, Tilden Lecturer (Chem. Soc.) 1940; Hon. D.Sc. (Salford Univ.) 1973. *Publications:* papers in scientific and chemical journals. *Leisure interests:* music, photography. *Address:* 62 Osler Road, Headington, Oxford, OX3 9BN, England. *Telephone:* Oxford 66456.

SUTTON, Sir (Oliver) Graham, C.B.E., D.SC., F.R.S.; British mathematical physicist; b. 4 Feb. 1903, Cwmcarn; s. of Oliver and Rachel Sutton; m. Doris Morgan 1931; two s.; ed. Univ. Coll. of Wales, Aberystwyth, and Jesus Coll., Oxford; Lecturer, Univ. Coll. of Wales, Aberystwyth 1926-28; Professional Asst., Meteorological Office 1928-41; Supt. of Research, Chemical Defence Experimental Establishment, Porton 1942-43; Supt. Tank Armament Research 1943-45; Chief Supt. Radar Research and Development Establishment, Malvern 1945-47; Chair. Atmospheric Pollution Research Cttee. 1950-55; Scientific Adviser to the Army Council 1951; Dean of Royal Mil. Coll. of Science, Shrivenham 1952-53, Bashforth Prof. of Mathematical Physics 1947-53; Pres. Royal Meteorological Soc. 1953-55, Hon. Fellow 1976; mem. Exec. Cttee. World Meteorological Organisation 1953-65, Chair. Nat. Cttee. Geodesy and Geophysics 1960-66, Natural Environment Research Council 1965-71; Dir.-Gen. of British Meteorological Office 1953-65; Vice-Pres. Univ. Coll. of Wales 1967-76; Hon. LL.D.; Int. Meteorological Org. Prize 1968. *Publications:* Atmospheric Turbulence 1948, The Science of Flight 1949, Micrometeorology 1953, Mathematics in Action 1954, A Compendium of Mathematics and Physics (with D. S. Meyler) 1958, Understanding Weather 1960, The Challenge of the Atmosphere 1961, Mastery of the Air 1966, The Weather 1974. *Address:* 4 The Bryn, Sketty Green, Swansea, SA2 8DD, Wales. *Telephone:* Swansea 21005.

SUWAYYIL, Ibrahim Al-; Saudi Arabian diplomatist; b. 1916; ed. Saudi Inst., Mecca, and Coll. of Sciences, Cairo; Minister of Foreign Affairs 1960-62; Adviser to King Saud and Head of Political Office in Royal Diwan Jan.-Nov. 1962; Minister of Agric. 1962-64; Amb. to United States, also accred. to Mexico 1964-75. *Address:* c/o Ministry of Foreign Affairs, Jeddah, Saudi Arabia.

SUY, Erik, DR.IUR., DR.SC. POL.; Belgian international lawyer; b. 15 Aug. 1933, Ghent; m. Ute Stenzel 1962; one d.; ed. Univs. of Ghent, Geneva and Vienna; mem. UN Conf. on Diplomatic Intercourse 1961, on Law of Treaties 1968-69; Adviser to Ministry for Foreign Affairs 1967-73; mem. del. to UN Gen. Assembly 1969-72; Chair. Sixth Cttee. Gen. Assembly 1972; Under-Sec.-Gen. Legal Counsel, UN 1974-; Prof. Int. Law, Univ. of Leuven; mem. Int. Law Assen., American, Belgian, French and German Socs. of Int. Law, Inst. of Int. Law, Perm. Court of Arbitration; Chevalier Leopold Order, Crown Order (Belgium), Officer Order of Merit (Austria). *Publications:* Les Actes Juridiques Unilatéraux en Droit International Public 1962, The Concept of Jus Cogens in International Law 1967, and over 40 articles on int. and European law. *Address:* United Nations Secretariat, New York, N.Y. 10017; 45 East 89th Street, Apartment 31B, New York, U.S.A. (Home). *Telephone:* PL4-5338 (Office); (212) 534-3761 (Home).

SUZMAN, Helen, B.COM., M.P.; South African politician; b. Germiston, Transvaal; m. Dr. M. M. Suzman 1937; two d.; ed. Parktown Convent, Univ. of Witwatersrand; Assistant statistician, War Supplies Board 1941-44; part-time lecturer, Dept. of Econs. and Econ. Hist., Univ. of Witwatersrand 1944-52; mem. Parl. Houghton 1953-; (United Party) 1953-61, Progressive Party (now Progressive Federal Party) 1961-; mem. South African Inst. of Race Relations; Hon. Fellow St. Hugh's Coll., Oxford 1973, London School of Econs. 1975; Hon. D.C.L. (Oxford) 1973, Hon. LL.D. (Harvard and Witwatersrand Univs.) 1976, (Columbia Univ. and Smith College) 1977; recipient Human Rights Award UN 1978. *Leisure interests:* golf, bridge. *Address:* c/o The House of Assembly, Cape Town, Cape Province; 49 Melville Road, Hyde Park, Sandton, 2146 Transvaal, South Africa (Home).

SUZMAN, Janet, B.A.; actress; b. 9 Feb. 1939, Johannesburg, South Africa; d. of Saul Suzman and Betty Sonnenberg; m. Trevor Nunn (*q.v.*) 1969; ed. Kingsmead Coll., Univ. of the Witwatersrand, London Acad. of Music and Dramatic Art; moved to Britain 1960; Best Actress, Evening Standard Drama Award 1973, 1976, Plays and Players Award 1976; *roles for Royal Shakespeare Co. include:* Lady Anne, La Pucelle, Lady Percy, Luciana, Lulu in The Birthday Party 1963-64, Portia, Rosaline 1965, Carmen in The Balcony, She Stoops to Conquer 1966, Katharina, Celia and Berinthia in The Relapse 1967, Beatrice, Rosalind 1968-69, Cleopatra and Lavinia 1972-73, Hester in Hello and Goodbye 1972-73, Masha in Three Sisters 1976; Shen Te in The Good Woman of Setzuan (Tyneside Theatre Co.) 1976, at Royal Court Theatre 1977; Hedda Gabler (Duke of York's Theatre) 1977; *films:* A Day in the Death of Joe Egg 1970, Nicholas and Alexandra 1971; *television plays since 1966 include:* Saint Joan 1968, The Three Sisters 1969, Macbeth 1970, Hedda Gabler 1972, Twelfth Night 1973, Antony and Cleopatra 1974, Miss Nightingale, Clayhanger (serial) 1975-76. *Address:* William Morris Agency (U.K.) Ltd., 147-149 Wardour Street, London, W1V 3TB, England. *Telephone:* 01-734 9361.

SUZUKI, Gengo; Japanese banker; b. 11 Feb. 1904, Mino-Kamo City; s. of Seijiro Suzuki and Sumi Kani; m. 1st Hide Motoda 1929 (died 1975), two s.; m. 2nd Toshi Toki 1976; ed. Taihoku Coll. of Commerce and Univ. of Wisconsin; Instructor, then Prof. Econs. Taihoku Coll. of Commerce, Taihoku, Taiwan 1930-45; Prof. Econs. Taiwan Nat. Univ. 1945-48; Deputy Financial Commr. Ministry of Finance 1949-51, Financial Commr. 1951-57; Financial Minister, Embassy of Japan, Washington, D.C. 1957-60; Special Asst. to Minister of Foreign Affairs and to Minister of Finance 1960-66; Exec. Dir. Int. Monetary Fund and Int. Bank for Reconstruction and Devt. 1960-66; Japan's Rep. to Group of Ten Deputies and Working Party 3 of OECD 1963-66; Auditor, Bank of Japan, Tokyo 1966-70; mem. Advisory Board Mekong Comm. ESCAP 1968-; Chief Finance Mission on Ryukyu Islands 1968-69; mem. World Bank's Investment Dispute Conciliation Panel 1968-74; Trustee, Int. Christian Univ., Tokyo 1968-; Chair. Board Associated Japanese Bank (Int.) Ltd. London 1970-; Publisher, Int. Devt. Journal Ltd. 1970-; Gov. and Steering Cttee. mem., Atlantic Inst. for Int. Affairs (Paris) 1971-; mem. European Atlantic Group 1971-; mem. Council of Int. Chamber of Commerce (Paris) 1974-; mem. Comm. on Unethical Practices (ICC) 1976-77. *Leisure interest:* golf. *Address:* 29-30 Cornhill, London, E.C.3 (Office); Flat 38, London House, 7-9 Avenue Road, London, N.W.8, England (London Home); and 2-5-13 Nukuikita-machi, Koganeishi, Tokyo, Japan (Tokyo Home). *Telephone:* 01-623 5661 (London Office); 01-586 2721 (London Home); 0423-83-5751 (Tokyo Home).

SUZUKI, Haruo, LL.B.; Japanese business executive; b. 31 March 1913, Hayama, Kanagawa Pref.; s. of Chuji and Masu Suzuki; m. Itoko Hibiya 1941; two d.; ed. Tokyo Univ.; with Nomura Securities Co. Ltd., 1936-39; joined Showa-Denko K.K. 1939, Exec. Vice-Pres. 1959-71, Pres. 1971-; Chair. Showa Yuka K.K. 1971-, Showa Unox K.K. 1975-; Showa Aluminium Industries K.K. 1976-, Tokuyama Petrochem. Co. 1977-, Abrasive Industry Assen.; Pres. Petrochemical Feedstock Importing Co. Ltd. 1978-; Vice-Chair. Japan-German Dem. Repub. Econ. Cttee., Japan-Southern U.S. Assen.; Exec. Dir. Fed. of Economic Orgs.; auditor Tokyo Chamber of Commerce and Industry; mem. Industrial Structure Council and Electric Utility Industry Council of Ministry of Int. Trade and Industry, Cttee. on Financial Systems Research of Ministry of Finance. *Publication:* Chemical Industry 1968. *Leisure interests:* reading, art appreciation, golf. *Address:* Showa Denko K.K., 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 1-810, 7; Mita 2-chome, Minato-ku, Tokyo, Japan (Home). *Telephone:* 432-5111 (Office).

SUZUKI, Hideo; Japanese investment banker; b. 4 June 1917, Hayama, Kanagawa Pref.; m.; two c.; ed. Univ. of Tokyo; entered Ministry of Finance 1940; Deputy Supt. of Kobe Customs, Ministry of Finance 1953-55; Head, Treasury Div., Financial Bureau, Ministry of Finance 1955-57; Head Govt., Investment Div., Financial Bureau, Ministry of Finance 1957-58, Co-ordinating Div., Foreign Exchange Bureau 1958-59; Financial Counsellor, Japanese Embassy, Consul in New York and Rep. of Ministry of Finance in New York 1959-62; Deputy Dir. Int. Finance Bureau Ministry of Finance 1962-64; mem. Policy Board, Bank of Japan, concurrently Deputy Dir. Int. Finance Bureau, Ministry of Finance 1964-65; Dir. Int. Finance Bureau 65-66; Special Adviser to Minister of Finance and Special Asst. to Minister of Foreign Affairs 1966-74; Exec. Dir. IMF, IBRD 1966-72; Vice-Chair., Deputies of Cttee. of 1920, IMF 1972-74; Adviser, Nomura Securities Co.; Chair., Nomura Securities International Inc.; Chair. Nomura Europe, N.V. 1974-. *Address:* The Nomura Securities Co., 1-9-1, Nohonbashi, Chuo-ku, Tokyo 103; 1-5-1 Jinnan, Shibuyaku, Tokyo 150, Japan (Home).

SUZUKI, Jitsujiro; Japanese business executive; b. 29 Nov. 1913, Fujieda, Shizuoka; m. Ai Suzuki 1940; three s. three d.; ed. Hamamatsu Technical School; with Suzuki Motor Co. Ltd. 1940, Dir. 1948-, Man. Dir. 1961-67, Senior Man. Dir. 1967-73, Pres. 1973-77; Chair. 1977-; Ranjyu Hosho (Japan Nat. Prize) 1974. *Leisure interest:* golf. *Address:* Suzuki Motor Co. Ltd., P.O. Box 116, Hamamatsu 430, Japan. *Telephone:* 0534-52-0579.

SUZUKI, Kyoji, M.A.; Japanese business executive; b. 18 March 1909, Kyoto; s. of Tanaka and Hajime Suzuki; m. Sakae Suzuki; one s. three d.; ed. Tokyo Imperial Univ.; with Dai-Ichi Bank Ltd. 1931-48; Dir. Ajinomoto Co. Inc. 1948, Exec. Vice-Pres. 1959, Exec. Dir. Ajinomoto-Insud S.p.A., Rome 1963; Pres. Ajinomoto Inc. 1965-73, Chair. 1973-75; Auditor May 1975-; Chair. Knorr Food Products (Japan) Ltd.; Blue Ribbon Medal. *Leisure interest:* reading books, especially history. *Address:* Ajinomoto Co. Inc., 1-6 Kyobashi, Chuoku (Office); 3-8-2-chome Shoto, Shibuya-ku, Tokyo, Japan (Home). *Telephone:* 03-272-1111.

SUZUKI, Shunichi; Japanese politician; fmr. Vice-Gov. of Tokyo, Gov. April 1979-; Conservative. *Address:* Office of the Governor, Tokyo, Japan.

SUZUKI, Shunzo; Japanese business executive; b. 24 May 1903; ed. Shizuoka Univ.; Pres. Suzuki Motor Co. Ltd. until 1973, Chair. 1973-77. *Address:* Suzuki Motor Co. Ltd., 300 Takatsuka, Kamimura, Hamaganun, Shizuoka Prefecture, Japan.

SUZUKI, Zenko; Japanese politician; b. 1911; ed. Fishery Training Inst. of Ministry of Agric. and Forestry; elected 12 times to House of Reps., Minister of Postal Services July-Dec. 1960; Chief Cabinet Sec. July-Nov. 1964; Minister of Health and Welfare 1965-67; various posts in Liberal Democratic Party (LDP) incl. Chair. of Exec. Council; assoc. of Masayoshi Ohira (*q.v.*); Minister of Agriculture and Forestry 1976-77. *Address:* c/o Ministry of Agriculture and Forestry, Tokyo, Japan.

SUZUKI, Ziro; Japanese business executive; b. 8 Nov. 1912; s. of Toshio Takahashi and Hide Takahashi (Motegi), m. Kazuko Suzuki 1938, three s. one d.; ed. Tokyo Inst. of Tech.; Special Consultant of Furukawa Electric Co. Ltd. 1974-75. *Address:* 13-5, Nakadai, Higashi Terao, Tsurumi-ku, Yokohama 230, Japan (Home). *Telephone:* 045-581-6285.

SVART, Anker; Danish diplomatist; b. 15 Sept. 1918, Taps; s. of Jakob Svart and Helen (née Olsen); m. Nina Jonsson 1949; no c.; ed. Aarhus Universitet and Univ. of Sheffield, England; Attaché, Danish Legation, Iceland 1944-45; Ministry of Foreign Affairs, Copenhagen 1945-52; Sec. Danish Legation, Canada 1952-55; Counsellor, Moscow 1956-60, Bonn 1960-62; Amb. to Repub. of China (Peking) 1962-65; Head of Dept., Econ. Div., Ministry of Foreign Affairs 1965-66; Amb. to U.S.S.R. (also accredited to Mongolia) 1966-73; Amb. to NATO (also accredited to Belgium and Luxembourg) 1973-. *Leisure interests:* photography, motoring, music, skating. *Address:* Danish Delegation to NATO, boulevard Léopold III, B-1110 Brussels, Belgium.

SVEINSSON, Einar Olafur, DR. LITT. ISL.; Icelandic university professor; b. 12 Dec. 1899, Höfdabrekka; s. of Sveinn Olafsson and Vilborg Einarsdóttir; m. Kristjana Thorsteinsdóttir Manberg 1930; one s.; ed. Univs. of Copenhagen and Iceland; various posts at Univ. of Iceland 1931-, Head of Univ. Library 1940-45, Prof. of Icelandic Literature 1945-71; Head of Manuscript Inst. of Iceland 1962-71; mem. various Cttees.; Visiting Prof. London 1965; has lectured in Western Europe, North America and China; Editor Skírnir 1944-53; Editor-in-Chief Islenzk Fornrit 1952-62; Co-Editor Arv, Uppsala 1953-; Chair. Icelandic Presidium Kulturhistorisk leksikon för nordisk Middelalder 1962-; Editor-in-Chief Publs. of Manuscript Inst. of Iceland 1962-71; Chair. Icelandic Literary Soc. 1963-67; mem. Societas Scientarium Islandica 1934-, Royal Swedish Gustav Adolf Acad. 1934-, Medieval Acad. of America 1949- (Fellow 1961), Norwegian Acad. of Letters and Sciences 1955, Royal Danish Acad. of Letters and Sciences 1955, Acad. Septentrionale, Paris 1968-, Royal Swedish Acad. of Letters 1969, etc.; Hon. mem. Modern Languages Assen. America 1958; Hon. Fil. dr. (Uppsala), Hon. D.Litt. (Dublin), Dr. phil. h.c. (Oslo); Commdr. Order of Falcon (Iceland), Royal Swedish Nordstjärna Order; Chevalier Ordre des Arts et Lettres. *Publications:* Verzeichnis isländischer Märchenvarianten 1929, Um Njálu 1933, Sagnaritun Oddaverja 1937, Um íslenzkar thjódsögur 1940 (translated into English), Sturlungaöld 1940, A Njálsbud 1943 (translated into Norwegian and English), Landnám í Skaftafellspingi 1948, Studies in the Manuscript Tradition of Njálssaga 1953, The Age of the Sturlungs 1953 (translated into Chinese), Vid uppspretturnar 1956, Dating the Icelandic Sagas 1958, Handritamálid 1959, Njäls saga 1959, Les sagas islandaises 1961, Islenzkar bókmenntir í fornöld I 1962, Ferd og förunautar 1963, Ritunartími Islendingasagna 1965, Ljód (poems) 1968 (translated into French), Löng er för 1975; also worked as editor and translator. *Leisure interest:* sleep. *Address:* Oddagötu 6, Reykjavik, Iceland. *Telephone:* 13431.

SVENNINGSEN, Nils Thomas; Danish diplomatist; b. 28 March 1894, Stockholm, Sweden; s. of Anders Svenningsen and Anna Bennet; m. Eva Larsen 1922 (died 1960); one d.; ed. Univ. of Copenhagen; Ministry of Justice 1918; Ministry of Foreign Affairs 1920; Sec., Berlin 1924-30; various depts., Ministry of Foreign Affairs 1930-41; Sec.-Gen., Ministry of Foreign Affairs 1941-45; Amb. to Sweden 1945-50, to France 1950-51; Sec.-Gen. Ministry of Foreign Affairs 1951-61; Amb. to U.K. 1961-64; Head of Swedish-Norwegian Commission on Research of Reindeer Grazing in North Scandinavia 1964-67; mem. UN Register for fact-finding experts in international disputes 1968-; Grand Cross Order of Dannebrog (Denmark), Hon. G.B.E. (U.K.) and other foreign orders. *Leisure interest:* riding. *Address:* Overgaden oven Vandet 50, 1415 Copenhagen K, Denmark. *Telephone:* (01) 5415 66.

SVESTKA, Bedrich, MU.DR.; Czechoslovak scientist and politician; b. 16 Jan. 1912, Švermov; ed. Faculty of Medicine, Charles University, Prague; Dean, Faculty of Hygiene, Charles Univ. Prague 1957-59; Amb. to Yugoslavia 1960-62; Amb. to Algeria 1962-64; Amb. to Yugoslavia 1960-62; Amb. to Algeria 1962-64; Dean, Faculty of Hygiene, Charles Univ. Prague 1966-69; Rector, Charles Univ. 1970-76; mem. Bureau of Central Cttee. C.P. of Czechoslovakia for directing Party work in the Czech Lands 1970-71; Chair. Czechoslovak Cttee. for European Security 1970-; Dir. Inst. of Work Hygiene and Professional Diseases 1971-; Head, Clinic of Labour Medicine, Prague 1970-; Chair. Czechoslovak Peace Council 1976-; Deputy Chair. Czechoslovak Cttee. for European Security and Cooperation 1977-; Deputy to House of Nations, Fed. Assembly 1976-; mem. Presidium Czechoslovak Nat. Front 1971; Alt. mem. Cen. Cttee. of C.P. of Czechoslovakia 1971-; Corresp. mem. Czechoslovak Acad. of Sciences 1970-75, mem. Presidium 1970-; mem 1975-; Hon. mem. Deutsche Gesellschaft für die gesamte Hygiene (D.D.R.); Award for Merit in Construction 1958; J. E. Purkyné Medal 1970; Order of Labour 1970; J. A. Comenius Medal 1972, M. Kopernik Medal 1973. *Publications:* scientific papers on occupational medicine and work safety. *Address:* Sněmovna Národů, Federální Vláda, Prague, Czechoslovakia.

ŠVESTKA, Oldřich; Czechoslovak journalist; b. 24 March 1922, Pozorka; ed. Commercial Acad.; mem. underground movement 1938-45; joined Rudé právo 1945, fmr. Deputy Editor, Editor 1958-68, Chief Editor 1975-; Chief Editor Tribuna, weekly of Cen. Cttee. C.P. of Czechoslovakia 1969-71; mem. Cen. Cttee. C.P. of Czechoslovakia 1962-, Sec. 1970-75, mem. Ideological Comm. of Cen. Cttee.

1963-69, mem. Presidium of Cen. Cttee. April-Aug. 1968, mem. Bureau for directing Party work in Czech Lands 1969-70, Sec. 1970-; Deputy to House of the People, Fed. Assembly 1971-; Order of February 1948, First Class 1949; Medal for Distinction in Construction 1955; Order of Labour 1970; Czechoslovak Journalists Prize 1970; Order of the Repub. 1972; Order of Victorious February 1973. *Address:* Central Committee, Communist Party of Czechoslovakia, nábř. Kyjevské brigády 1912, Prague 1, Czechoslovakia.

SVETLANOV, Yevgeniy Fyodorovich; Soviet composer and conductor; b. 6 Sept. 1928, Moscow; ed. Gnesiny Music Education Inst. and Moscow Conservatoire; Asst. Conductor, Moscow Radio 1954; Conductor, Bolshoi Theatre, Moscow 1955-63, Chief Conductor 1963-65; Conductor, U.S.S.R. State Symphony Orchestra 1965-; People's Artist of R.S.F.S.R., of U.S.S.R. 1968; Lenin Prize 1972, Grand Prix (France); Order of Lenin, State Glinka Prize 1975, Order of Red Banner (twice), and other decorations. *Compositions include:* Symphony, Tone-Poems Festival 1950, Daugava 1953, Siberian Fantasy 1953, Rhapsody 1954, Cantata Home Fields 1949, Concerto 1951, five Sonatas 1946-52, five Sonatinas 1946-51, Preludes 1945-51, Symphony 1957, Beautiful Kalina (symphonic poem) 1975; about 50 Romances and Songs; *has conducted:* Rusalka (Dargomyshski), Pskovityanka, The Czar's Bride, Sadko, Snow-Maiden (Rimsky-Korsakov), Prince Igor (Borodin), The Sorceress (Tchaikovsky), Not Only Love (Schchedrin), Boris Godunov (Mussorgsky), October (Muradelya), Storm Along the Path (Karayev), Paganini (Rachmaninov), Swan Lake (Tchaikovsky), Night Town (Bartok), Pages of Life (Belanchivadze), Chopiniana (Chopin). *Address:* U.S.S.R. State Symphony Orchestra, 31 Ulitsa Gorkogo, Moscow, U.S.S.R.

SVOBODA, Josef; Czechoslovak architect and stage designer; b. 10 May 1920, Čáslav; s. of Růžena and Josef Svoboda; m. Libuše Hrubešová 1948; one d.; ed. Special School for Interior Architecture, Prague and School of Fine and Applied Arts, Prague; Stage designer, Nat. Theatre, Prague 1947, Head Designer 1951-; Prof. Acad. of Applied Arts 1968-; mem. Union of Czech Dramatic Artists 1975-; Gen. Sec. Int. Org. of Scenographers and Theatre Technicians 1971-; Artistic Dir. of Laterna Magica 1973; created over 320 stage sets in Czechoslovakia and for theatres in Belgium, France, Italy, Germany, U.S.S.R., U.K., U.S.A., etc.; State Prize 1954, Order of Labour 1963, Honoured Artist 1966; Best Stage Designer Art Biennale São Paulo 1961, London Theatre Critics' Award for the Best Stage Set (The Insect Comedy, Čapek and Tempest, Ostrovsky) 1966, Nat. Artist 1968, Nederlands Sikkenprijs 1969; Hon. Degree Royal Coll. of Art 1969. *Leisure interest:* motoring. *Address:* National Theatre, Divadelní 6, Prague 1; Na-Květnici 850/6, Prague-Nusle, Czechoslovakia (Home). *Telephone:* 27-72-69 (Office); 43-22-60 (Home).

SVOBODA, Gen. Ludvik; Czechoslovak army general and politician; b. 25 Nov. 1895, Hroznatín; fought in Czechoslovak Legions in First World War 1915-20; in Czechoslovak Army 1922-39, Company Commdr. 1936, later Infantry Battalion Commdr., teacher at Mil. Acad.; fought in U.S.S.R. in Second World War; organized and commanded Czechoslovak Army Unit 1939-45; Minister of Nat. Defence and organized new Czechoslovak People's Army 1945-50; Deputy Premier 1950-51; Chief of Mil. Acad. 1954-58, retd. 1959; mem. Nat. Assembly 1948-68, mem. Presidium Nat. Assembly 1960-64; mem. Presidium Czechoslovak-Soviet Friendship Union 1945-; mem. Presidium and Deputy Chair. Central Cttee. of Union of Anti-Fascist Fighters 1948-68; fmr. mem. Central Cttee. CP of Czechoslovakia; fmr. mem. Central Cttee. Presidium; mem. Exec. Cttee. of Presidium of Central Cttee. CP of Czechoslovakia 1968-69; Pres. of Republic 1968-75; C.-in-C. Czechoslovak Armed Forces 1968-75; Lenin Prize 1968, 1969, Czechoslovak Peace Prize 1968; numerous decorations including Order of Klement Gottwald 1970, Order of the October Revolution (U.S.S.R.) 1970, Order of the Banner, 1st Class with Diamonds (Hungary) 1970, Order Stara Planina with Ribbon (Bulgaria) 1972, Order of Victorious February 1973, Hero of Czechoslovak Socialist Repub. 1970, 1975, Distinction for Merit 1975. *Publication:* From Buzuluk to Prague 1960. *Address:* c/o Communist Party of the Czechoslovak Socialist Republic, Nábř. Kyjevské brigády 12, 125 II Prague I, Czechoslovakia.

SVOLINSKÝ, Karel; Czechoslovak painter and graphic artist; b. 14 Jan. 1896, Kopeček-Olomouc; s. of Karel and Josefa Svolinský; m. Marie Svolinský-Vesela 1928; ed. School of Fine and Applied Arts, Prague; Prof. Coll. of Fine and Applied Arts, Prague 1945-70; Grand Prix, Paris 1925, 1937, Milan 1940, Brussels 1958; Gold Medals, Paris 1937 and two at Leipzig 1965; State Prize 1952; Honoured Artist 1956; Nat. Artist 1961; Order of Labour 1976; Marie Majerová Prize 1976. *Works include:* stained glass windows and mosaics in St. Vitus Cathedral, Prague, St. Wenceslas Church, Letovice 1975-77, School of D. Němci, Moravia 1976, of Gottwaldon 1978; work for Paris Exhbn. 1937, Brussels Exhbn. 1958; book illustrations and layout; costumes and stage sets, Nat. and other Theatres Prague, Vienna and Moscow; at int. exhbns. in Lugano 1954, Leipzig 1927, 1959, 1965, Venice 1956, São Paulo 1960, Paris 1963, 1975, Belgrade 1965, Mainz 1965, etc., one-man shows, Kassel 1964, Vienna 1965, Offenbach/M. 1966, Olomouc 1966, 1973, Amsterdam 1969, Prague 1967, 1971, 1975, Gottwaldon 1978. *Leisure interest:* travelling. *Address:* Na Zátorce 13, Prague 6, Czechoslovakia. *Telephone:* 372-676.

SWAMINATHAN, Jagdish; Indian painter; b. 21 June 1928, Simla; m. Bhavani 1955; two s.; ed. Delhi Polytechnic and Acad. of Fine Arts, Warsaw; early career of freedom fighter, trade unionist, journalist, and writer of children's books; mem. Delhi State Cttee. of Congress Socialist Party and Ed. of its weekly organ, Mazdoor Awaz; Senior Art Teacher, Cambridge School, New Delhi; Founder-mem. Group 1890 (avant-garde group of India artists); mem., Nat. Cttee., Int. Assn. of the Arts 1967, Exec. Cttee. Delhi Slipi Chakra 1967-, also Founder-Ed. monthly journal, Contra 1966 and full-time painter; one-man exhbns. in New Delhi 1962, 1963, 1964, 1965, 1966, in Bombay 1966; in group shows Warsaw 1961, Saigon 1963, Tokyo Biennale 1965, Art Now in India, London, Newcastle and Brussels 1965-66, Seven Indian Painters, London 1967; Jawaharlal Nehru Research Fellow; represented in various public and private collections in India and abroad. *Address:* c/o Gallery Chemould, Jahangir Art Gallery, Mahatma Ghandi Road, Bombay 1; 6/17 W.E.A., New Delhi 5, India.

SWANK, Emory Coblentz, M.A.; American diplomatist (retd.); b. 29 Jan. 1922, Frederick, Md.; s. of late George P. Swank and of late Ruth Coblentz McCollough; m. Margaret K. Whiting; ed. Franklin and Marshall Coll., Harvard Univ. and Nat. War Coll., Washington, D.C.; served in U.S. Army 1943-46; Instructor in English, Franklin and Marshall Coll. 1946; joined foreign service 1946; appointments in China, Indonesia and U.S.S.R.; Deputy Chief, U.S. Embassy, Bucharest 1958-60; Special Asst. to Sec. of State 1960-63; Deputy Chief, U.S. Embassy, Vientiane, Laos 1964-67; Minister, Moscow 1967-69; Deputy Asst. Sec. for European Affairs, Dept. of State 1969-70; Amb. to Khmer Repub. 1970-73; Political Adviser to C.-in-C., Atlantic, and Supreme Allied Commdr., NATO Atlantic Forces 1973-75; Pres. Cleveland Council on World Affairs 1977-; Bronze Star. *Leisure interests:* swimming, golf, music, literature. *Address:* One Bratenhal Place, Cleveland, Ohio 44108, U.S.A.

SWANN, Donald Ibrahim, M.A.; British composer, pianist and entertainer; b. 30 Sept. 1923, Llanelly, Wales; s. of Herbert Swann and Naguimé Piszóva; m. Janet Oxborrow 1955; two d.; ed. Westminster School and Christ Church, Oxford; musical contributor to London revues, including Airs on ■ Shoestring 1953-54; joint leader writer, musical play Wild Thyme 1955; with Michael Flanders in two-man revues, At the Drop of ■ Hat, and At the Drop of Another Hat (singer and accompanist of own songs); toured Australia, New Zealand, America and Canada; other works include London Sketches 1958, Festival Matins 1962, Perelandra (opera) 1961-62, settings of John Betjeman's poems 1964; since 1966 has appeared in own concert/entertainments Set by Swann (setting of poetry by Tolkien and others), An Evening in Crete (Greek songs), Soundings by Swann (church music), Between the Bars (musical autobiography) 1970, A Crack in Time (a concert in search of peace) 1973, The Five Scrolls, Seasons of the Jewish Year, (cantata with Albert Friedlander); recordings include Flanders and Swann material (Parlophone), Tolkien Songs (Caedmon). *Publications:* Sing Round the Year (carols for children) 1965, The Road Goes Over On (with J. R. R. Tolkien), The Space Between the Bars 1967, Requiem for the Living (choral work, with C. Day Lewis) 1970, Song of Caedmon (narration with songs) 1971, The Rope of Love (more carols) 1973, Swann's Way Out 1975, The Songs of Michael Flanders and Donald Swann 1977, Singalive, Wacky and His Fuddlejig, and Baboushka (three joint works with Arthur Scholey) 1978 and 1979, The Yeast Factory (music drama, with Alec Davison) 1979. *Leisure interest:* going to the laundrette. *Address:* 13 Albert Bridge, London, SW11 4PX, England. *Telephone:* 01-622 4281.

SWANN, Sir Michael Meredith, Kt., M.A., PH.D., F.R.S., F.R.S.E., D.UNIV.; British university teacher and administrator; b. 1 March 1920; s. of M. B. R. Swann; m. Tess Gleadowe 1942; two s. two d.; ed. Winchester and Gonville and Caius Coll., Cambridge; Army Service 1940;46; Demonstrator, Dept. of Zoology, Univ. of Cambridge 1946-52; Prof. of Natural History, Univ. of Edinburgh 1952-62, Dean of Faculty of Science 1962-65, Principal and Vice-Chancellor, Univ. of Edinburgh 1965-73; mem. Medical Research Council 1962-65; mem. Cttee. on Manpower Resources 1965-68; mem. Council for Scientific Policy 1965-69, Science Research Council 1970-73; Chair. BBC Jan. 1973-; Chair. Council for Science and Society

1973-76; Dir. New Court Natural Resources Ltd. 1973-; Trustee Wellcome Trust 1973-; Queen's Lecture, Berlin 1975; F.I.Biol.; Hon. F.R.C.S.E. 1967; Hon. F.R.C.P.E. 1972; Hon. A.R.C.V.S. 1976; Hon. LL.D. (Aberdeen) 1967; Hon. D.Sc. (Leicester) 1968; Hon. D.Litt. (Heriot Watt) 1971. *Publications:* papers in scientific journals. *Leisure interests:* gardening, sailing. *Address:* Broadcasting House, London, W.1. (Office); Tallat Steps, Coln Street, Denys, near Cheltenham, England (Home). *Telephone:* 01-580 4468 (Office); 0285-72533 (Home).

SWART, Charles Robberts, B.A., LL.B., D.M.S.; South African lawyer, journalist and politician; b. 5 Dec. 1894, Morgenzon; s. of H. B. Swart and A. C. Swart (née Robberts); m. Nellie de Klerk 1924; one s. one d.; ed. Grey University Coll., Bloemfontein, Univ. of South Africa and Columbia Univ., New York; Advocate Supreme Court of South Africa 1919-48; fmr. Organizing Sec. Nat. Party of Orange Free State 1919-28; Leader Nat. Party of O.F.S. 1940-59; fmr. mem. Fed. Nat. Party Council; fmr. Lecturer in Law and Agricultural Legislation; M.P. for Ladybrand 1923-38, Winburg 1941-59; Minister of Educ., Arts and Science 1949-50; Minister of Justice 1948-59; Deputy Prime Minister and Leader, House of Ass. 1954-59; Gov.-Gen. 1960-61; State Pres. Repub. of South Africa 1961-67 Chancellor, Univ. of Orange Free State 1950-76; Hon. Col. Oos-Vrystaat Regt. 1953-, Regt. Univ. Oranje-Vrystaat 1962-; Hon. Pres. Automobile Assn. S. Africa; Life Patron-in-Chief Voortrekker Youth Movement; Hon. Fellow Coll. of Medicine S. Africa; Hon. mem. S. Africa Acad. of Science and Art; Hon. Fellow, S. African Inst. of Architects; Hon. LL.D. (Univ. of Orange Free State, Rhodes Univ. and Potchefstroom Univ); freeman of numerous S. African towns; decoration for Meritorious Service 1972. *Publications:* Kinders van Suid-Afrika 1933, Die Agterryer 1939. *Leisure interests:* farming and agriculture. *Address:* P.O. Box 135, Brandfort, Orange Free State, Republic of South Africa.

SWART, Karel, B.CHEM.ENG.; Netherlands oil company executive; b. 26 May 1921, Singapore; m. Wilhelmina A. Bruinsma 1950; ed. Delft Univ.; with Royal Dutch Shell-Laboratory, Amsterdam 1948; Refinery Start-up Team, Shell Berre 1953; Bombay 1954, Geelong 1955; Cen. Office, The Hague 1956; various technical and managerial posts at Cardón Refinery, Compañía Shell de Venezuela Ltd. 1958-65; Gen. Man. Curaçao 1965; Dir. Manufacturing and Supply, Venezuela 1967; Special Assignment Cen. Office, The Hague 1968; Man. Dir. N.V. Koninklijke Nederlandsche Petroleum Maatschappij (Royal Dutch) 1979, The Shell Petroleum Co. Ltd. 1979, Principal Dir. Shell Petroleum N.V. 1970-79; Knight Order of Netherlands Lion. *Address:* Brouwerlaan 6, Voorschoten, The Netherlands (Home).

SWARTZ, Col. Hon. Sir Reginald William Colin, K.B.E., M.B.E., E.D.; Australian former politician and company director; b. 14 April 1911; ed. Toowoomba and Brisbane Grammar Schools; Parl. Under-Sec. Ministry of Commerce and Agric. 1952-56; Parl. Sec. Ministry of Trade 1956-61; Minister for Repatriation 1961-64; Minister for Health 1964-66; Minister for Social Services 1965-66, for Civil Aviation 1966-69, for Nat. Devt. 1969-72; Leader of House of Reps. 1971-72; (retd.); Dir. eight Australian cos.; Councillor, Inst. of Dirs.; life mem. Liberal Party. *Address:* 31 Furlong Street, Rio Vista, Surfers Paradise, Queensland 4217, Australia. *Telephone:* Gold Coast 317186.

SWAZILAND, King of (*see* Sobhuza II).

SWE, U Ba; Burmese politician; b. 19 April 1915, Tavoy; s. of U Tun Hlaing and Daw Pe Lay Swe; m. Daw Nu Nu Swe 1944; six s. four d.; ed. Rangoon Univ.; Pres. Rangoon Univ. Students' Union 1940-41; one of the founders of People's Revolutionary Party 1939; Exec. mem. of Party in Mergui District during Japanese occupation; Chief of Civil Defence in the "Kebotai" 1942-45; one of leaders of Anti-Japanese Resistance Movement, in charge of Rangoon, Hanthawaddy and Insein districts 1944-45, arrested and detained by Japanese; Pres. Socialist Party (originally People's Revolutionary Party) 1945, later Sec.-Gen.; Pres. Asia Socialist Conf. 1952-56, 1956-60; Sec.-Gen. Anti-Fascist People's Freedom League 1947-58; Leader of "Stable" Group 1958; fmr. mem. Parl. from Taikkyi; Minister of Defence 1952-58, concurrently Prime Minister 1956; Deputy Prime Minister 1957-59; Leader of Opposition 1958; under political arrest 1963-66. *Leisure interests:* gardening, billiards, writing. *Address:* 84 Innes Road, Rangoon, Burma. *Telephone:* 31323.

SWEARINGEN, John Eldred, M.S.; American businessman; b. 7 Sept. 1918, Columbia, S.C.; s. of John E. Swearingen and Mary Hough; m. 1st Rolly A. Ostberger 1942, 2nd Bonnie Bolding 1969; three d.; ed. Univ. of South Carolina and Carnegie Mellon Univ.; Chemical Engineer, Standard Oil Co. (Indiana) 1939-47; various positions Stanolind Oil and Gas Co. (now Amoco Production Co.) 1947-51 and Dir. 1951; Gen. Man. Production, Standard Oil Co. (Indiana) 1951, Dir. 1952, Vice-Pres. 1954, Exec. Vice-Pres. 1956, Pres. 1958-65, Chair. of Board 1965-; Dir. Chase Manhattan Corpn., First Nat. Bank, Chicago, American Nat. Bank and Trust Co., American Petroleum Inst. (Chair. 1978-), Northwestern Memorial Hosp., Chicago; Trustee, Carnegie Mellon Univ., DePauw Univ., Orchestral Assn., Chicago; mem. Nat. Petroleum Council (Chair 1974-76), Advisory Board Hoover Inst. for War, Revolution and Peace; mem. Nat. Acad. of Engineering, American Chemical Soc., American Inst. of Mining and Metallurgical Engineers; Fellow, American Inst. of Chemical Engineers; Hon. D.Eng. (S.D. School of Mines and Tech.), Hon. LL.D. (DePauw Univ., Univ. of S. C., Knox Coll., Butler Univ., Ill. Coll, Stamford Univ., Calumet Coll.), Hon. D.L.H. (Nat. Coll. of Educ.), Hon. D.Bus.-Mgt. (Indiana Inst. of Tech.). *Leisure interests:* reading, fishing, hunting, golf. *Address:* 200 E. Randolph Drive, Chicago, Ill. 60601 (Office); 1420 Lake Shore Drive, Chicago, Ill. 60610, U.S.A. (Home).

SWEDEN, King of (*see* Carl XVI Gustaf).

SWEENEY, James Johnson, A.B.; American museum director; b. 30 May 1900, New York; s. of Patrick Sweeney and Mary Johnson; m. Laura Harden 1927; three s. two d.; ed. Georgetown Univ., Jesus Coll., Cambridge (England), Sorbonne (Paris) and Siena Univs.; lecturer New York Univ. Inst. of Fine Arts 1935-40, Salzburg Seminar in American Studies 1947 and 1949; Visiting Scholar Univ. of Georgia 1950-51; Dir. of Painting and Sculpture New York Museum of Modern Art 1945-46, Solomon R. Guggenheim Museum, New York 1952-60; Dir. Houston Museum of Fine Arts 1961-68, Consultant Dir. 1968-; Dir. Iran American Soc. 1964-; Lecturer Harvard Univ. 1961; Vice-Pres. Int. Art Critics Assn. 1948-57, Pres 1957-63, Div. 1963-; Vice-Pres. Edward MacDowell Assn. 1953-54, Pres. 1955-62, Counsellor 1962-; Trustee American Acad. in Rome 1962-, Nat. Council of the Arts 1965-68, The Arts Council (Dublin) 1966-, Mediaeval Acad. of America, Councillor 1966; Gallery Consultant, Nat. Gallery, Canberra 1968-; Art Adviser, Israel Museum, Jerusalem 1972-; mem. American Acad. of Arts and Sciences; Art in America Award 1963; Chevalier Légion d'honneur, Officier Ordre des Arts et des Lettres; Hon. A.I.A. (American Inst. of Architects), Hon. D.F.A. (Mich.), Hon. L.H.D., (Georgetown, Miami), Hon. LL.D. (Dublin) and numerous other hon. degrees. *Publications:* Plastic Redirections in XXth Century Painting 1934, African Negro Art (editor) 1935, Joan Miró 1941, Alexander Calder 1943, Stuart Davis 1945, Marc Chagall 1945, Henry Moore 1947, African Folk Tales and Sculpture (with Paul Radin) 1952, 1964, Burri 1955, The Miró Atmosphere 1959, Antoni Gaudí (with José Luis Sert) 1960, Irish Illuminated Manuscripts 1965, Vision and Image 1968, African Sculpture 1970, Calder 1971, Pierre Soulages 1972, Contemporaries and Predecessors 1973; numerous articles in various journals. *Address:* 120 East End Avenue, New York, N.Y. 10028, U.S.A. *Telephone:* BU80602.

SWEETING, William Hart, C.M.G., C.B.E.; British banker; b. 18 Dec. 1909, Nassau, Bahamas; s. of Charles C. and Clara M. Sweeting; m. Isabel J. Woodall 1950; ed. Queen's Coll., Nassau and Univ. of London; Asst. Receiver-Gen. and Treas., Bahamas 1946; Financial Sec., Dominica 1950-52; Receiver-Gen. and Treas., Bahamas 1955; Chair. Bahamas Currency Commrs. 1955-63; Chair. Bahamas Broadcasting and Television Comm. 1956-62; mem. Legislative Council, Bahamas 1960-64; Chief Sec., Bahamas 1964, Deputy Gov. 1969; Chair. Bank of London and Montreal (BOLAM) 1970-; Chair. Bahamas Public Disclosure Comm. *Leisure interests:* swimming, painting, music, bird-watching. *Address:* Bank of London and Montreal Ltd., Bolam House, King & George Streets, P.O. Box 1262, Nassau; Ryswick, P.O. Box N573, Nassau, Bahamas (Home). *Telephone:* 3-1518.

SWEETMAN, Seamus George, M.B.E., B.A., F.B.I.M.; British business executive; b. 7 Nov. 1914, Dublin; s. of late James M. Sweetman, K.C.; and of Agnes (Fottrell) Sweetman; m. Mary Giblett 1939; one s.; ed. Beaumont Coll., St. John's Coll., Cambridge; joined Unilever Group 1936; War Service (Lt.-Col., The Buffs) 1939-45; Unilever subsidiaries, U.K. 1946-55; Unilever appointments, Continental Europe 1955-61; Dir. Unilever NV, Unilever Ltd. 1961-78, Vice-Chair. 1974-78; Dir. Commonwealth Devt. Finance Co. 1975; Deputy Chair. Price Comm. 1977-; Trustee Leverhulme Trust; Officer U.S. Legion of Merit. *Leisure interests:* gardening, mountain walking, reading, history. *Address:* Greenloaning, West Common Close, Harpenden, Herts, England (Home).

ŚWIDERSKI, Jan; Polish actor and theatre director; b. 14 Jan. 1916, Chmielniec; m.; ed. State Inst. of Theatrical Arts, Warsaw; debut at Teatr Polski, Poznań 1938-39; Teatr Miejski, Lublin 1945, Teatr Wojska Polskiego, Łódź 1946-49, Teatr Polski, Warsaw 1949-55, Teatr Dramatyczny, Warsaw 1955-67, Teatr Ateneum, Warsaw 1967-; Prof. State Higher Theatrical School, Warsaw; Vice-Pres.

Cen. Board, Assen. of Polish Theatre and Film Actors 1970-; State Prize 1st Class (1964, 1976, Order of Banner of Labour) 1st Class 1964, Artistic Prize of City of Warsaw 1970, Ministry of Culture and Arts (1st Class) 1973, Commdr. Cross with Star, Order of Polonia Restituta 1976, Prize for role of Father in Niespodzianka X by Rostworowski, II Festival of Polish TV Films and Spectacles, Olsztyn 1978; *roles include:* Arnof in L'Ecole des femmes by Molière, Macbeth, Voivode in Mazepa by J. Słowacki, Baron in The Lower Depths by Gorky, Poet in Wesele by S. Wyspiański, Old Man in The Chairs by Inonesco, Romulus in Romulus the Great by Dürrenmatt, Gregory Solomon in The Price by A. Miller, Cup-Bearer in The Revenge by A. Fredro, Captain Edgar in The Dance of Death by Strindberg, Borkman in John Gabriel Borkman by Ibsen, Father in Niespodzianka by Rostworowspi. *Leisure interest:* fishing. *Address:* Ul. Krzywe Koło 8/10 m. 4, 00-270 Warsaw, Poland. *Telephone:* 31/37/08.

SWIFT, A. Dean: American business executive; ed. Univ. of Illinois; joined Sears, Roebuck and Co. 1940, Gen. Man. Indianapolis, Ind. 1964-67, Detroit Area 1967-69, Vice-Pres. Southern Area 1969, Dir. 1969-, Pres. Feb. 1973-; Dir. Allstate Insurance Cos., Homart Devt. Co., Sears Roebuck Acceptance Corpn., First Chicago Corpn., Commonwealth Edison Co.; Chair. Nat. Corpns. Cttee., United Negro Coll. Fund; mem. Business Advisory Board, Chicago Metropolitan Area, Nat. Alliance of Businessmen; Dir. Sears Roebuck Foundation; Trustee Museum of Science and Industry, Northwestern Univ., mem. advisory council Graduate School of Man., Northwestern Univ.; Dir. and mem. Exec. Cttee., Nat. Retail Merchants Assen. *Address:* c/o Sears, Roebuck and Co., Sears Tower, Chicago, Ill. 60684, U.S.A.

SWINGS, Pol, PH.D., D.SC.; Belgian university professor; b. 24 Sept. 1906, Ransart; s. of Jean B. Swings and Marie Antoinette Bils; m. Christiane Borgerhoff 1932; one s.; ed. Univ. of Liège; Asst. in Astronomy, Univ. of Liège 1928-32, Asst. Prof. 1932-36, Prof. 1936-76; Visiting Prof. Univ. of Chicago 1939-43, 1946-52; War Research Assignment U.S.A. 1943-45; mem. Royal Acad. of Belgium, American Acad. Arts and Sciences, American Philosophical Soc., Nat. Acad. of Sciences U.S.A. (Emer.), Bavarian Acad. of Sciences., Acad. dei Lincei, Rome; Assoc. Inst. de France; Pres. Int. Astronomical Union 1964-67; Hon. D.Sc. (Aix-Marseille, Bordeaux, Charles, Prague, York, Toronto); Francqui Prize 1948, Decennial Physics Prize 1960, Solvay Prize 1970; Légion d'honneur. *Leisure interest:* gardening. *Address:* Department of Astrophysics, University of Liège Ougrée (Office); 23 Avenue Léon Souguenet, 4050 Esneux, Belgium (Home). *Telephone:* 041-801135 (Home).

SWINNERTON, Frank Arthur; British novelist and literary critic; b. 12 Aug. 1884, Wood Green; s. of Charles Swinnerton and Rose Cottam; m. Mary Dorothy Bennett 1924; two d.; President, Royal Literary Fund 1962-66. *Publications:* include: Nocturne 1917, The Georgian House, The Georgian Literary Scene 1936, 1970, Swinnerton: An Autobiography 1937, The Bookman's London 1951, Background with Chorus 1956, Death of a Highbrow 1961, Figures in the Foreground 1963, Quadrille 1965, A Galaxy of Fathers 1966, Sanctuary 1966, The Bright Lights 1968, Reflections from a Village 1969, On the Shady Side 1970, Nor All Thy Tears 1972, Rosalind Passes 1973, Some Achieve Greatness 1976, Arnold Bennett: A Last Word 1978. *Leisure interests:* reading, gardening. *Address:* Old Tokefield, Cranleigh, Surrey, England. *Telephone:* Cranleigh 3732.

SWINNERTON-DYER, Sir Henry Peter Francis, Bt., M.A., F.R.S.; British mathematician and university professor; b. 2 Aug. 1927, Ponteland; s. of the late Sir Leonard Dyer; ed. Eton and Trinity Coll., Cambridge; Research Fellow, Trinity Coll. 1950-54; Commonwealth Fund Fellow, Univ. of Chicago 1954-55; College Lecturer in Math., Trinity 1955-71, Dean 1963-70; Lecturer in Math., Cambridge Univ. 1960-71, Prof. of Math. 1971-, Master of St. Catharine's Coll. 1973-; Vice-Chancellor, Cambridge Univ. (1979); mem. Advisory Board for Research Councils 1977-(79); Visiting Prof. Harvard Univ. 1970-71. *Publications:* Analytic Theory of Abelian Varieties 1974, and papers in learned journals. *Leisure interests:* tennis, squash, chess. *Address:* Master's Lodge, St. Catharine's College, Cambridge, England. *Telephone:* Cambridge 59445.

SYDOW, Erik von. B.L.; Swedish diplomatist; b. 2 Sept. 1912, Göteborg; s. of Oscar von Sydow and Mary (née Wijk) von Sydow; m. Lia Åkel 1940; one s. one d.; ed. Uppsala Univ.; Ministry of Foreign Affairs 1936; early service Germany and Baltic States; Sec. Legation to Japan 1940, Chargé d'Affaires 1945-46; Head of Div., Ministry of Foreign Affairs 1947-49; Perm. Rep. to OEEC 1949-53; Counsellor, U.S.A. 1954-56; Asst. Under-Sec. Commercial and Econ. Affairs, Ministry of Foreign Affairs 1959-63; Amb. and Perm. Rep. to EFTA and other Int. Orgs. in Geneva 1964-71; Amb. to the EEC, Brussels 1972-; Chair. numerous bilateral and multilateral trade negotiations. *Address:* Swedish Delegation to the EEC, 6 Rond-Point Robert Schuman, B 1040 Brussels (Office); 28 avenue du Prince d'Orange, B 1180 Brussels, Belgium (Home). *Telephone:* 73690 30 (Office); 374 12 04 (Home).

SYDOW, Max von; Swedish actor; b. 10 April 1929, Lund, Sweden; s. of Carl W. von Sydow and Greta Rappe; m. Christina Olin 1951; two s.; ed. Royal Dramatic Theatre School, Stockholm; Norrköping-Linköping Theatre 1951-53, Hälsingborg Theatre 1953-55, Malmö Theatre 1955-60, Royal Dramatic Theatre, Stockholm 1960-; Sorrento Prize 1968; Litteris et Artibus 1978. *Plays acted in include:* Peer Gynt, Henry IV (Pirandello), The Tempest, Le misanthrope, Faust, Ett Drömspel, La valse des toréadors, Les sequestrés d'Altona, After the Fall, The Wild Duck, The Night of the Tribades 1977. *Films acted in include:* Bara mor 1949, Miss Julie 1950, Det sjunde inseglet (The Seventh Seal) 1957, Ansiktet (The Face) 1958, The Virgin Spring 1960, Såsom i en spegel (Through a Glass Darkly) 1961, Nattvardsgästerna (Winter Light) 1963, The Greatest Story Ever Told 1963, 4×4 1965, Hawaii 1965, Quiller Memorandum 1966, The Hour of the Wolf 1966, The Shame 1967, A Passion 1968, The Emigrants 1969, The New Land 1969, The Exorcist 1973, Steppenwolf 1973, Trompe l'Oeil 1975, Heart of Dog 1975, Foxtrot 1975, The Voyage of the St. Louis 1976, The Desert of the Tartars 1976, Cadaveri Eccelenti 1976, March or Die 1977. *Leisure interest:* nautical history. *Address:* c/o Filmhuset, Box 27126, 102 52 Stockholm 27, Sweden.

SYED PUTRA BIN SYED HASSAN JAMALULLAIL (*see* Perlis).

SYED ZAHIRUDDIN BIN SYED HASSAN, Tun, S.M.N., P.S.M., G.C.V.O., J.M.N., D.P.M.P., P.J.K.: Malaysian government official; b. 11 Oct. 1918, Perak; m. Halimah Binti Haji Mohd. Noh 1944; ten c.; ed. Raffles Coll., Singapore; Malay Officer 1945-47; Deputy Asst. District Officer, Krian 1948, Asst. District Officer 1951; Asst. District Officer, Tanjong Malim 1953, Ipoh 1954; Second Asst. State Sec., Perak 1955, Registrar of Titles and Asst. State Sec. (Lands) 1956; District Officer, Batang Padang, Tapah 1957; Deputy Sec. Public Services Comm. 1958; Principal Asst. Sec., Fed. Establishment Officer 1960; State Sec. Perak 1961; Perm. Sec. Ministry of Agric. and Cooperatives 1963, Ministry of Educ. 1966; Dir.-Gen. Public Services Comm. 1969; retd. 1972; High Commr. in U.K. 1974-75; Gov. of Malacca 1975-; Chair. Railways Services Comm. 1972-, Special Cttee. on Superannuation, Board of Govs. Malay Coll., Interim Council of Nat. Inst. of Tech., Central Board. *Leisure interest:* golf. *Address:* Office of the Governor, Malacca, Malaysia.

SYKES, Peter, B.SC., M.SC., PH.D., F.R.I.C.; British chemistry teacher; b. 19 Feb. 1923, Manchester; s. of Charles Hyde Sykes and Alice Booth; m. Joyce Tyler 1946; two s. one d.; ed. Rydal School, Colwyn Bay, Univ. Manchester, Clare Coll., Cambridge; Research Fellow, St. John's Coll., Cambridge 1947-50, Univ. Demonstrator in Organic Chem. 1947-55, Lecturer 1955-, Official Fellow and Dir. of Studies in Chem., Christ's Coll. 1956-; Visiting Research Prof., Coll. of William and Mary, Williamsburg, Va. 1970-71, 1977-78; Visiting Prof., Univ. of Cape Town 1974, Univ. of São Paulo and Campinas, Brazil 1976. *Publications:* A Guidebook to Mechanism in Organic Chemistry 1975, The Search for Organic Reaction Pathways 1972 (both trans. in numerous languages), and numerous papers on organic reaction mechanisms. *Leisure interests:* chamber music, church architecture, talking, German wine. *Address:* University Chemical Laboratory, Lensfield Road, Cambridge, CB2 1EW; Christ's Coll., Cambridge, CB2 3BU, England. *Telephone:* 0223 66499 (Laboratory); 0223 67641 (College).

SYME, Sir Colin York, Kt., A.K., LL.B.; Australian businessman; b. 22 April 1903, Claremont; s. of Francis Mark Syme and Marion Barr; m. Patricia Baird 1933; three s. d.; ed. Perth and Melbourne Univs.; Partner firm of Hedderwick, Fookes and Alston 1928-66; Dir. Broken Hill Pty. Co. Ltd. 1937-71, Chair. 1957-71, Dir. of Admin. 1966-71; Chair. Tubemakers of Australia Ltd. 1966-73; Pres. Walter and Eliza Hall Inst. of Medical Research 1961-78; Chair. Inquiry into Hosp. and Health Services in Victoria 1973-75, Victorian Health Planning Cttee. 1975-78; Hon. D.Sc. *Leisure interests:* trout fishing, bird observing. *Address:* 22 Stonnington Place, Toorak, Victoria 3142, Australia. *Telephone:* 20-5254.

SYME, Sir Ronald, Kt., O.M., F.B.A.; British university professor; b. 11 March 1903, Eltham, New Zealand; ed. New Zealand and Oriel Coll. Oxford; Fellow and Tutor, Trinity Coll., Oxford 1929-49; Press Attaché, British Legation, Belgrade 1940-41, Ankara, 1941-42; Prof. of Classical Philology Univ. of Istanbul 1942-45; Camden Prof. of Ancient History Univ. of Oxford 1949-70; Pres. Int. Fed. Classical Societies 1951; Pres. Soc. for the Promotion of Roman Studies 1948-52; Sec.-Gen. Int. Council for Philosophy and the Humanities 1952, Pres. 1971-75; Foreign mem. Royal Danish Acad., American Phil. Soc., American Acad. of Arts and Sciences,

American Historical Soc.; Assoc. mem. Inst. de France; mem. Lund Soc. of Letters, etc.: Hon. D.Litt. (N.Z. 1949, Durham 1952, Belfast 1959, Emory 1962, Graz 1962, Ohio 1970, Boston Coll. 1974,) Hon. D. és L., (Liége 1952, Paris 1962, Lyon 1967, Louvain 1976); Hon. Ph.D. (Tel-Aviv 1975); Fellow, Wolfson Coll. 1970; Hon. Fellow, Oriel Coll., Oxford 1958, Trinity Coll., Oxford 1971; Emer. Fellow, Brasenose Coll. 1970; Foreign mem. Orden für Wissenschaften und Künste 1975; Commandeur, Légion d'honneur 1975, Kenyon Medal, British Acad. 1975. *Publications:* The Roman Revolution 1939, Tacitus 1958, Colonial Elites 1958, Sallust 1964, Ammianus and the Historia Augusta 1968, Ten Studies in Tacitus 1970, Emperors and Biography 1971, The Historia Augusta; a Call for Clarity 1971, Danubian Papers 1971, History in Ovid 1978. *Address:* Wolfson College, Oxford, England. *Telephone:* 57093.

SYMINGTON, Stuart; American politician; b. 26 June 1901, Amherst, Mass.; s. of William Symington and Emily Harrison; m. Evelyn Wadsworth 1924 (deceased); two s.; ed. Yale Univ. and Int. Correspondence School; with Symington companies, Rochester, N.Y. 1923-30; Pres. Colonial Radio Co., Rochester 1930-35, Rustless Iron & Steel Co., Baltimore 1935-37; Pres. and Chair. Board Emerson Electric Co., St. Louis 1938-45; Surplus Property Admin., Washington, D.C. 1945-46; Asst. Sec. of War for Air 1946-47; Sec. of Air Force, Nat. Defense 1947-50; later Chair. Nat. Security Resources Board and Admin. Reconstruction Finance Corpn.; Senator from Missouri 1953-77; Democrat. *Address:* The Barclay House, 230 S. Brentwood Boulevard, St. Louis, Mo. 63105, U.S.A.

SYMONETTE, Sir Roland Theodore, Kt.; Bahamian business executive and politician; b. 16 Dec. 1898; ed. Current Eleuthera, Bahamas; Shipyard Owner and Contractor; mem. House of Assembly 1935-, Exec. Council 1949; Parl. Leader United Bahamian Party; Prime Minister of Bahamas 1964-67. *Address:* 601 Bay Street, Nassau, Bahamas.

SYNGE, Henry Millington; British stockbroker; b. 4 April 1921, Liverpool; s. of Richard Millington Synge and Eileen B. N. Hall; m. Joyce Helen Topping 1947; two s. one d.; ed. Shrewsbury School; with Merchant Navy 1939-46; Partner, Sing White and Co. (Stockbrokers) 1947; Dir. Union Int. Co. Ltd. 1956, Chair. 1969-; Man. Liverpool Trustee Savings Bank 1956-71, Chair. 1968-69; Man. Trustee Savings Bank of Wales and Border Counties 1970; Partner, Tilney & Co. Stockbrokers, Liverpool, London and Shrewsbury. *Leisure interests:* fishing, aviation, amateur radio. *Address:* Wilcot House, Nesscliffe, Shrewsbury, SY4 1BJ, England.

SYNGE, John Lighton, M.A., SC.D., F.R.S., M.R.I.A.; Irish mathematician; b. 23 March 1897, Dublin; s. of Edward and Ellen Synge (née Price); m. Elizabeth Allen 1918; three d.; ed. Trinity Coll., Dublin; Lecturer in Math Trinity Coll., Dublin 1920; Asst. Prof. of Math. Univ. Toronto 1920-25; Fellow and Univ. Prof. of Natural Philosophy, Trinity Coll., Dublin 1925-30; Prof. of Applied Math, Toronto Univ. 1930-43; Prof. of Math Ohio State Univ. 1943-46; Prof. of Math Carnegie Inst. of Tech. 1946-48; Prof. Inst. for Advanced Studies, Dublin 1948-72, Emer. Prof. 1972-; Visiting Lecturer Princeton 1939, Visiting Prof. Brown Univ. 1941, Univ. of Maryland 1951; Pres. Royal Irish Acad. 1961-64; Hon. Fellow, Trinity Coll., Dublin; Hon. LL.D. (St. Andrews) 1966; Hon. D.Sc. (Belfast) 1969, (Nat. Univ. of Ireland) 1970. *Publications:* Mathematical Papers of Sir W. R. Hamilton, Vol. I (Editor, with A. W. Conway) 1931, Geometrical Optics 1937, Principles of Mechanics (with B. A. Griffith) 1942, Tensor Calculus (with A. Schild) 1949, Science: Sense and Nonsense 1951, Geometrical Mechanics and de Broglie Waves 1954, Relativity: the Special Theory 1956, The Relativistic Gas, Kandelman's Krim, The Hypercircle in Mathematical Physics 1957, Relativity: The General Theory 1960, Talking About Relativity 1971. *Leisure interests:* reading, motoring, walking. *Address:* Institute for Advanced Studies, 10 Burlington Road, Dublin; Torfan, Stillorgan Park, Blackrock, Co. Dublin, Ireland. *Telephone:* 881251.

SYNGE, Richard Laurence Millington, PH.D., F.R.I.C., F.R.S.E., F.R.S.; British biochemist; b. 28 Oct. 1914, Liverpool; ed. Winchester Coll. and Trinity Coll., Cambridge; Int. Wool Sec. Student in Bichemistry, Univ. of Cambridge 1938 (transferred to Wool Industries Research Assen., Leeds 1939); Biochemist, Wool Industries Research Assen., Leeds 1941-43; Staff Biochemist, Lister Inst. of Preventive Medicine, London 1943-48 (studied at Inst. of Physical Chem., Uppsala 1946-47); Head of Dept. of Protein Chem., Rowett Research Inst., Bucksburn, Aberden, Scotland 1948-67; Biochemist, Food Research Inst., Norwich 1967-76; Hon. Prof. School of Biological Sciences, Univ. of East Anglia 1968; Royal Irish Acad., Royal Soc. N.Z., American Soc. of Biological Chemists; Nobel Prize for Chemistry (with A. J. P. Martin) 1952 for invention of partition chromatography of East Anglia 1968; mem. Editorial Board Biochemical Journal 1949-55; Visiting biochemist Ruakura Animal Research Station, Hamilton, N.Z. 1958-59; Royal Irish Acad., Royal Soc. N.Z., American Soc. of Biological Chemists; Nobel Prize for Chemistry (with A. J. P. Martin) 1952 for invention of partition chromatography 1941; John Price Wetherill Medal, Franklin Inst. U.S.A. (with Stevens) 1959. *Address:* 19 Meadow Rise Road, Norwich NR2 3QE, England.

SYTENKO, Mikhail Dmitrievich; Soviet diplomatist; b. 8 Nov. 1918, Troitskoe, Voroshilovgrad Region; ed. First Moscow State Inst. for Foreign Languages, Higher Diplomatic School of Ministry of Foreign Affairs; Diplomatic Service 1942-78, Amb. to Ghana 1959-62, Head of Second African Dept. of Ministry of Foreign Affairs 1962-65, Amb. to Indonesia 1965-69, Head of Near Eastern Countries Dept. of Ministry 1969-78; mem. del. to several sessions of UN Gen. Assembly, to Geneva Peace Conf. on Middle East: UN Under-Sec.-Gen. for Political and Security Council Affairs, May 1978-. *Address:* United Nations, New York, N.Y. 10017, U.S.A.

SZABELSKI, Bolesław; Polish composer; b. 3 Dec. 1896, Radoryż, near Łuków; ed. Warsaw Conservatoire under R. Statkowski, K. Szymanowski and M. Surzynski; Prof. of Composition and Organ Music, State Higher School of Music, Katowice 1929-74, Prof. Emer. 1974; Prize of City of Katowice 1948, State Prizes 1953, 1962, 1966, Prize of Polish Composers' Assen. 1960, Prize of Katowice Voivod 1963; Officer's and Commdr.'s Crosses, Order Polonia Restituta, Order Banner of Labour (1st Class), and other decorations. *Works include:* Symphony No. 2 (for Soprano solo, Choir and Orchestra) (folk text) 1934, Suite (for Orchestra) 1938, Study (for Orchestra) 1939, Sonata (for Organ) 1943, Sinfonietta (for String Orchestra and Percussion) 1946, Symphony No. 3 1951, Concerto grosso 1954, String Quartet 1956, Symphony No. 4 1956, Sonnets (for Orchestra) 1958, Improvisations (for Mixed Choir and Chamber Orchestra) 1959, Verses (for Piano and Orchestra) 1961, "9", Aphorisms (for Chamber Ensemble) 1962, Preludes (for Chamber Orchestra) 1963, Concerto (for Flute and Orchestra) 1964, Symphony No. 5 (for Mixed Choir and Orchestra) 1968, N. Copernicus (Oratorio) 1976, Reduta (cantata) 1976, Concerto for Piano 1978. *Address:* Ul. Nad Jarem 9, 40-625 Katowice Ochojec, Poland.

SZABÓ, Magda; Hungarian authoress; b. 5 Oct. 1917, Debrecen; d. of Alex Szabó and Madeleine Jablonczay; m. Tibor Szobotka 1948; graduated as a teacher 1940; worked in secondary schools 1940-44, 1950-59; started literary career as poetess and has since written novels, plays, radio dramas and film scripts; works have been translated into 26 languages including English, French, German, Italian, Russian, Polish, Swedish; József Attila Prize 1959 and 1972, Kossuth Prize 1978. *Publications:* poems: Neszek (Noises); autobiography: Ókut (Old Well); novels for children: Szigetkék (Island-Blue), Tündér Lala (Lala the Fairy), Abigél (Abigail); novels: Az öz (The Fawn), Fresko (Fresco), Disznótor (Night of Pig-Killing), Pilatus (Pilate), A Danaida (The Danaid), Mózes 1.22 (Genesis 1.22), Katalin utca (Kathleen Street), A szemlélok (The Onlookers), Régimódi Itörténet (Old-Fashioned Story). *Leisure interest:* pets. *Address:* H-1026 Budapest II, Julia-utca 3, Hungary.

SZABÓ, Zoltán, M.D.; Hungarian physician and politician; b. 17 Feb. 1914, Patalom; s. of Béla Szabó and Mária Klapp; m. Erzsébet Nagy 1948; one s. one d.; ed. Pécs Univ.; Asst. Lecturer, Univ. Medical School, Pécs 1945, Univ. Medical Clinic, Budapest 1957, Asst. Prof. 1963; Pres. Physicians and Health Workers Union 1952, Gen. Sec. 1963; First Deputy Minister of Health 1963; Minister of Health 1964-74; mem. Cen. Cttee. Hungarian Socialist Workers' Party 1962-75; Gen. Sec. World Fed. of Hungarians 1974-; Red Banner Order of Merit 1974. *Address:* II. Sarolta-u. 12, H-1028 Budapest, Hungary. *Telephone:* 150-627.

SZÁDECZKY-KARDOSS, Elemér; Hungarian geochemist and geologist; b. 10 Sept. 1903, Kolozsvár; s. of Gyula Szádeczky-Kardoss and Jolán Molnár; m. Dr. Julia Lengyel 1967; fmr. Univ. Prof.; mem. Hungarian Acad. of Sciences, Pres. Dept. for Geology and Mining Science; Pres. Comm. on Geonomy, Hungarian Acad. of Sciences, mem. World Acad. of Arts and Sciences, Austrian Acad. of Sciences; made fundamental discoveries in fields of sediment formation, coal petrology, magmatic rock genesis and geochemistry; law of the Universal cyclicities; Kossuth Prize 1949, 1952, Labour Order of Merit, golden degree 1953, 1973, Order of Merit of Hungarian People's Repub. *Publications:* Coal Petrology 1952, Geochemistry 1955, Structure and Evolution of the Earth 1968, Mechanism of the New Global Tectonics and its Relations to the Evolution of the Earth and Life 1971, Geonomics 1974, Cyclicities, Theory and Practice. *Leisure interests:* philosophy, music. *Address:* Hungarian Academy of Sciences Laboratory for Geochemical Research, H-1112 Budapest, Budaörsi ut 45, Hungary H-1112. *Telephone:* 851-129.

SZAFRAŃSKI, Henryk; Polish politician; b. 1 Nov. 1905, Warsaw; ed. Warsaw Polytechnic; employed at Lilpop factory, then at machine tool factory at Pruszków, then at Ursus works; participated in September Campaign 1939; returned to Ursus works 1945; mem. Polish Workers' Party (PPR) 1942-48, Cen. Cttee. 1945-48; Deputy to Nat. People's Council; Sec. Bydgoszcz Voivodship Cttee., Polish United Workers' Party (PZPR) 1948, Warsaw Voivodship Cttee. 1949, 1956-67, First Sec. Warsaw Voivodship Cttee. 1967-71; mem. Cen. Cttee., PZPR 1964-; mem. Council of State 1971-; Chair. Warsaw Voivodship Cttee. of Nat. Unity Front 1972-; Deputy to Seym 1961-; Chair. Seym Comm. on Heavy Industry, Machine Industry and Metallurgy 1976-; Order of Builders of People's Poland 1974, Order of Banner of Labour, (1st Class), Commdr.'s Cross with Star, Order of Polonia Restituta, Grunwald Cross, (3rd Class). *Address:* Kancelaria Rady Państwa, ul. Wiejska 4/6/8, 00-489 Warsaw, Poland.

SZAJNA, Józef; Polish theatre director, scenographer and painter; b. 13 March 1922, Rzeszów; s. of Julian Szajna and Karolina Pieniazek; m. Bożena Sierosławska 1953; one s.; ed. Cracow Acad. of Fine Arts; Lecturer, Acad. of Arts, Cracow 1954-68; Co-founder and scenographer Teatr Ludowy, Nowa Huta 1955-63, Man. Dir. 1963-66; Dir. and Scenographer, Teatr Stary, Cracow 1966-70; Man. Dir. Teatr Klasyczny, now Art Gallery and experimental theatre called Teatr Studio, Warsaw 1971-; Prof. Acad. of Arts, Warsaw, and Dir. School for Stage Designers 1971-; Dir. Acropolis 1961, Puste Pole 1965, Faust 1971, Dir. and Scenario Replika 1972, Gulgutiera 1973, Witkacy 1973, Dante 1974, Cervantes 1976, Majakowski 1978, Smierć na gruszy 1978; one-man exhbn. Gegenwart einer Vergangenheit (Presence of the Past), Frankfurt-am-Mein 1978; contrib. many int. exhbns. and theatre festivals, works of art in galleries in Poland and elswhere; Reviewers Award 1957, ITI Distinction Award for decorations and costumes, Paris 1958; Nowa Huta Artistic Award 1959, First Prize for All-Polish Short-Feature Film Festival, Cracow 1962, Prize of Minister of Culture and Art 1963, 1971, Annual Award of Arkady Gallery, Cracow 1971, Gold Medal of "Quadriennale", Prague 1971, First Prize and Gold Medal, IV Art Festival, Warsaw 1972; numerous decorations. *Publication:* Teatr Organiczny (Organic Theatre). *Address:* Spasowskiego 14/8, 00-389 Warsaw, Poland. *Telephone:* 26-47-52.

SZAKÁCS, Ödön, LL.D.; Hungarian judge; b. 1912; graduated as Doctor of Law and Political Science 1942; Judge of district court Makó 1942, County Court Szeged, Pres. County Court, Debrecen 1951-53, Szeged 1953-55; leader Criminal Dept., Ministry of Justice 1955-56; Pres. Budapest Metropolitan Court 1957-62; Vice-Pres. 1962-68, then Pres. of Supreme Court of Justice 1968-. *Address:* c/o Supreme Court of Justice of the Hungarian People's Republic, H-1251 Budapest I, Fö-utca 1, Hungary. *Telephone:* 160-175.

SZALAY, Sándor, B.A., M.A., PH.D., D.SC.; Hungarian physicist; b. 4 Oct. 1909, Nyiregyháza; s. of Sandor Szalay and Gizelle Niedermayer; m. Eva Csongor 1948; two s.; ed. Budapest and Leipzig Univs., Technische Hochschule, Munich, and Cavendish Laboratory, Cambridge; mem. Hungarian Acad. of Sciences 1965-; Titular Prof. Experimental Physics, Kossuth Univ.; Head, Inst. Nuclear Research of Debrecen 1954-75, Perm. Scientific Advisory 1976-; Dr. h.c. (Marie-Curie-Sklodowska Univ., Lublin) 1970; Kossuth Award 1952; Gold Medal 'Hungary' 1969, 1976; Hungarian State Prize. *Leisure interests:* angling, photography. *Address:* Institute of Nuclear Research, 18c, Bem tér, 4001 Debrecen, Hungary. *Telephone:* Debrecen 133-87.

SZARKA, Karoly; Hungarian diplomatist; b. 1923, Budapest; m.; two c.; entered foreign service 1948; served in Hungarian embassies in London 1949-50, New Delhi 1951-53, Washington, D.C. 1953-56; Deputy Minister for Foreign Affairs 1956-68; Amb. to Egypt 1968-70; Perm. Rep. to UN 1970-74; Deputy Minister of Foreign Affairs 1974-; Order of Merit (Hungary), Order of Homayoun (Iran) 1st Class, and several other decorations. *Address:* c/o Ministry of Foreign Affairs, 1394 Budapest II, Bem József rakpart 47, Hungary.

SZASZ, Thomas Stephen, M.D.; American psychiatrist, psychoanalyst, author and lecturer; b. 15 April 1920, Budapest, Hungary; s. of Julius Szasz and Lily Wellisch; m. (divorced); two d.; ed. Cincinnati Univ. and Medical Coll.; staff mem., Chicago Inst. for Psychoanalysis 1951-56; mil. service with U.S. Naval Hosp., Bethesda (attained rank of Commdr.) 1954-5-; Prof. of Psychiatry, State Univ. of N.Y., Upstate Medical Center 1956-; Co-founder and Chair. Board of Dirs., American Assn. for the Abolition of Involuntary Mental Hospitalization Inc.; mem. Board of Dirs., Nat. Council on Crime and Delinquency; Consultant, Cttee. on Mental Hygiene, N.Y. State Bar Assn. and other advisory positions; mem. A.A.A.S. and other assns., Int. Editorial Board The International Journal of the Addictions, Contemporary Psychoanalysis, Editorial Board Journal of Humanistic Psychology, The Humanist, also consulting positions with journals; Hon. Pres. Int. Comm. for Human Rights 1974; D. Sc. h.c. (Allegheny Coll.) 1975. *Publications:* Pain and Pleasure 1957, The Myth of Mental Illness 1961, 1974, Law, Liberty and Psychiatry 1963, Psychiatric Justice 1965, The Ethics of Psychoanalysis 1965, Ideology and Insanity 1970, The Manufacture of Madness 1970, The Age of Madness 1973, The Second Sin 1973, Ceremonial Chemistry 1974, Heresies 1976, Schizophrenia: the Sacred Symbol of Psychiatry 1976, Karl Kraus and the Soul-Doctors 1976, Psychiatric Slavery 1977, The Theology of Medicine 1977, The Myth of Psychotherapy 1978. *Address:* Department of Psychiatry, State University of New York, Upstate Medical Center, 750 East Adams Street, Syracuse, N.Y. 13210 (Office); 4739 Limberlost Lane, Manlius, N.Y. 13104, U.S.A. (Home). *Telephone:* (315) 473-5630 (Office); (315) 673-8918 (Home).

SZCZEPAŃSKI, Jan, PH.D.; Polish sociologist; b. 14 Sept. 1913, Ustron, Cieszyn district; s. of Paweł and Ewa Szczepański (née Cholewa); m. Eleonora Poczobut 1937; one s. one d.; ed. Univ. of Poznań; Asst. Poznań Univ. 1935-39; during Nazi occupation forced labour in Germany; Asst. Łódź Univ. 1945-52, Extraordinary Prof. 1952-63, Prof. 1963-; Chief Sociological Dept. Inst. of Philosophy and Sociology, Polish Acad. of Sciences 1957-58, Deputy Dir. 1961, Dir. 1968-75; mem. Polish Acad. of Sciences 1964-; Vice-Pres. 1972-; Pres. Int. Sociological Assn. 1966-70; Vice-Chair. All-Polish Cttee. of Nat. Unity Front 1971-; Deputy to Seym 1957-60, 1972-; Chair. Chief Council of Science, Higher Educ. and Technology, Ministry of Science, Higher Educ., and Technology 1973-; Chair. Scientific Council of Intercollegiate Inst. for Research on Higher 1973-; mem. Council of State 1977-; mem. Board UNRISD, Assn. Int. de Sociologie (AIS); mem. Nat. Acad. of Educ., U.S.A.; foreign mem. Finnish Acad. of Science and Literature; hon. mem. American Acad. of Exact Sciences and the Humanities 1972; Dr. h.c. (Brno Univ.) 1969, (Lódz Univ.) 1973; Hon. C.B.E. 1978; Commdr. Cross with Star of Order Polonia Restituta 1969, Order of the Builders of People's Poland 1974, State Prize (1st Class) 1974, and others. *Publications:* Structure of Intelligensia in Poland (in Polish) 1960, History of Sociology (in Polish) 1961, Sociological Problems of Higher Education (in Polish, French, Hungarian) 1963, edited Studies in Polish Class Structure (28 vols.), Introduction to Sociology (in Polish, Czech, Russian, Hungarian and Finnish) 1963, Problems of Contemporary Sociology (in Polish) 1965, Industry and Society in Poland (in Polish) 1969, Sociology and Society (in Bulgarian) 1970, Changes of the Present Time (in Polish) 1970, Co-editor Social Problems of Work Production (in Polish, Russian) 1970, Considerations on the Republic (in Polish) 1971, Reflections on Education (in Polish) 1973, Changes of Polish Community in the Process of Industrialization 1973, Essays on Higher Education 1976, Sprawy ludzkie (Res Humanae). *Address:* 00-543 Warsaw, Mokotowska 46a/23, Poland. *Telephone:* 28-21-93.

SZCZEPAŃSKI, Maciej, M.A.; Polish journalist; b. 7 July 1928, Sosnowiec; s. of Maria and Aleksander Szczepański; m. Ewa Wiland-Szczepańska; one s.; ed. journalistic studies; Editorial Sec. Nowiny Rzeszowskie daily newspaper 1951-55; Deputy Ed.-in-C. Polskie Radio broadcasting station, then Head of Propaganda Dept., Katowice Voivodship Cttee. of Polish United Workers' Party (PZPR) 1955-66; Ed.-in-C. Trybuna Robotnicza daily newspaper, Katowice 1966-72; Chair. Cttee. for Radio and TV, Polskie Radio i Telewizja 1972-; Deputy to Seym 1969-; mem. PZPR 1954-, Deputy mem. Cen. Cttee. until 1975, mem. PZPR Cen. Cttee. Dec. 1975-; Commdr. Cross with Star of Order of Polonia Restituta 1978 and other decorations. *Leisure interests:* sailing, skiing. *Address:* Komitet do Spraw Radia i Telewizji, Polskie Radio Telewizja, ul. Woronicza 17, 010-950 Warsaw, Poland.

SZEKÉR, Gyula; Hungarian engineer and politician; b. 24 Sept. 1925, Szombathely; s. of Janos Szekér and Karolina Ferenczi; m. Eva Apro; two s.; ed. Technical Univ.; joined CP 1948; mem. Cen. Cttee. Hungarian Socialist Workers Party; important posts in Ministry of Heavy Industry 1954-75, First Deputy Minister 1963, Minister 1971-75; ■ Deputy Prime Minister, Council of Ministers 1975-. *Leisure interests:* tennis, hunting. *Address:* Council of Ministers, Parliament Building, Kossuth Lajos tér., Budapest, Hungary. *Telephone:* 120-600.

SZENT-GYÖRGYI, Albert, M.D., PH.D.; Hungarian-born American biochemist; b. 16 Sept. 1893, Budapest; s. of Nicholas Szent-Györgyi and Josephine Lenhossek; one d.; ed. Univ. of Budapest and Cambridge Univ.; Prof. of Medical Chem., Szeged Univ. 1931-45; Prof. of Biochemistry, Univ. of Budapest 1945-47; Dir. of Research, Inst. of Muscle Research, Marine Biological Labs. 1947-; fmr. Pres. Acad. of Sciences, Budapest, now mem.; fmr. Vice-Pres. Nat. Acad., Budapest; Scientific Dir. Nat. Foundation for Cancer Research; awarded Nobel Prize for Medicine 1937. *Publi-*

cations: Oxidation, Fermentation, Vitamins, Health and Disease 1939, Muscular Contraction 1947, 1951, 1953, The Nature of Life 1947, Bioenergetics 1957, Submolecular Biology 1960, Bioelectronics 1968, The Crazy Ape 1970, What Next? 1971, The Living State 1972, Electronic Biology and Cancer 1976, Submolecular Biology 1978. *Leisure interests:* sport, music. *Address:* Marine Biological Laboratories, P.O. Box 187, Woods Hole, Mass. 02543, U.S.A.

SZENTÁGOTHAI, János, M.D.; Hungarian professor of anatomy; b. 31 Oct. 1912, Budapest; s. of Gustav and Margaret (Antal) Schimert; m. Alice Biberauer 1938; three d.; ed. Univ. of Budapest; Research Asst., Dept. of Anatomy, Univ. of Budapest 1935-37, Lecturer 1937-40, Reader 1940-47; Prof. and Head, Dept. of Anatomy, Univ. of Pécs 1947-63, Univ. of Budapest 1963-; Ed. Journal Hirnforschung 1963; experimental brain research 1966; mem. Hungarian Acad. of Sciences 1948, (Vice-Pres. 1976-77, Pres. 1977-), Deutsche Akad. der Naturforscher Leopoldina 1964 (Vice-Pres. 1976-), Akad. der Wissenschaften und der Literatur, Mainz 1969, Acad. Royale de Médecine de Belgique 1970, Nat. Acad. of Sciences, Washington 1972, American Acad. of Arts and Sciences 1973; Hon. D.Sc. (Oxford) 1978; Kossuth State Prize 1950, Hufeland Memorial Medal 1969, State Award (1st Class) 1970, Karl Spencer Lashley Prize 1973, Gold Medal of Milan 1973. *Publications:* Die Rolle der einzelnen Labyrinthrezeptoren bei der Orientation vom Augen und Kopf in Raume 1952, Hypothalamic Control Anterior Pituitary (with others) 1962, The Cerebellum [redacted] Neuronal Machine (with others) 1967, Functional Anatomy 1971, Atlas of Human Anatomy 1946-75; author numerous articles. *Leisure interests:* water colour sketching, scientific illustration, gardening. *Address:* Department of Anatomy, Semmelweis University Medical School, 58 Tüzoltó utca, 1450 Budapest IX (Office); 2/3 Magyar Jakobinusok tér, 1122 Budapest XII, Hungary (Home). *Telephone:* 138-806 (Office); 359-506 (Home).

SZERYNG, Henryk; Mexican violinist; b. 22 Sept. 1918, Warsaw, Poland; s. of Szymon Szeryng and Aline Woźnicka; studied with Carl Flesch, Berlin, and Gabriel Bouillon, Paris Conservatoire, and with Nadia Boulanger; Liaison officer Polish Govt. in exile, London and translator for Gen. Sikorski 1939-45; played at over 300 concerts for Allied Armed Forces during this period in Britain, Canada, U.S.A., Mexico, Panama, Trinidad, Brazil, Persian Gulf, North Africa, Italy and France; apptd. Prof. Faculty of Music, Univ. Nacional Autónoma de México Dec. 1945; global concerts and goodwill tours 1953-; apptd. Goodwill Amb. by Mexican Govt. 1956, Mexican Cultural Amb. 1960-; Cultural Adviser to Mexican Perm. del. to UNESCO and Mexican Foreign Ministry 1970-; Hon. Pres. Juventudes Musicales de México; Hon. mem. R.A.M. 1969; First Prize with distinction, Paris Conservatoire 1937, Grand Priz du Disque 1955, 1957, 1960, 1961, 1967-69, Knight Polish Order Polonia Restituta 1956, Romanian Cultural Merit (1st Class) 1964, Officier des Arts et Lettres (France), Commdr. Finnish Order of Red Lion 1968, Chevalier, Légion d'honneur (France) 1971, Mozart Medal (Austria) 1971, Commdr. Al Merito (Italy) 1976, Officer of the Crown (Belgium) 1976, etc. *Publications:* Works for piano, violin, chamber music; revised violin concertos by Nardini, Vivaldi and others; revived Paganini Concerto No. 3; several publs. on aspects of violin technique and interpretation. *Leisure interests:* climbing, golf, motoring, reading, linguistic research, collecting rare books, violin bows. *Address:* Permanent Mexican Delegation, UNESCO, 1 rue Miollis, 75015 Paris, France.

SZIJÁRTÓ, Károly, DR.; Hungarian lawyer; b. 26 Jan. 1927, Székesfehérvár; s. of Károly Szijártó and Magdolna Langmár; m. Magdolna Gerber 1949; one s. one d.; ed. Budapest Univ. of Liberal Arts; joined Hungarian CP 1945; Pres. Budapest Mil. Court of Law 1965-71; Vice-Pres. Hungarian Supreme Court 1971-75; Chief Public Prosecutor 1975-. *Address:* Office of the Chief Public Prosecutor, 1369 Budapest, Apáczai Csere János-utca 10, Hungary. *Telephone:* 187-850.

SZLACHCIC, Franciszek, M.ENG.; Polish politician; b. 5 Feb. 1920, Byczyno, [redacted] Chrzanów; m. Bronisława Wałach 1945; one s. one d.; ed. Acad. of Mining and Metallurgy, Cracow; former miner; mem. People's Guard and People's Army during occupation; mem. Polish Workers' Party 1943-48; mem. Polish United Workers' Party (PZPR) 1948-, deputy mem. Cen. Cttee. 1964-68, mem. 1968-75, Sec. Cen. Cttee. 1971-74, mem. Politicial Bureau 1971-75; Deputy Minister of Home Affairs 1962-71, Minister Feb.-Dec. 1971; Deputy Chair. Council of Ministers 1974-76; mem. Council of State 1972-74; Deputy to Seym 1972-76; Pres. Polish Cttee. of Standardization and Measures 1976-; Order of Banner of Labour (1st and 2nd Class), Grunwald Cross, Cross of the Brave, Medal of 30th Anniversary of People's Poland 1974. *Address:* Polski Komitet Normalizacji i Miar, ul. Elektoralna 2, 00-139 Warsaw, Poland. *Telephone:* 20-07-47.

SZOKOLAY, Sándor; Hungarian composer; b. 30 March 1931, Kunágota; s. of Balint Szokolay and Erzsébet Holecska; m. 1st Sári Szesztay 1952, 2nd Maja Weltler 1970; four s.; ed. Budapest Music Acad.; has won prizes in Warsaw, Moscow, Vienna, Merited Artist Distinction 1976. *Works include:* Blood Wedding (opera) 1963, Hamlet (opera) 1968, Az iszonyat balladája (The Ballad of Horror), Tetemrehivás (Ordeal of the Bier), Samson (opera) 1973; Oratorios: A tüz márciusa (March Fire), Istár pokoljárása (Ishtar's Descent to Hell); has also written cantatas, songs, chamber music and choral works. *Leisure interests:* car driving, mountaineering. *Address:* H-1119 Budapest, Szabados S.-ucta 90, Hungary. *Telephone:* 263-109.

SZÖNYI, Erzsébet; Hungarian musician; b. 25 April 1924; d. of Jeno Szonyi and Erzsébet Piszanoff; m. Dr. Lajos Gémes 1948; two s.; ed. Music Acad. Budapest and Paris Conservatoire; Teacher of music at [redacted] Budapest grammar school 1945-48, Music Acad. Budapest 1948-; leading Prof. Music Acad. 1960-; Vice-Pres. Int. Soc. for Music Educ. 1970-74; mem. Chopin Soc. of Warsaw, Liszt Soc. of Hungary; Erkel Prize 1959. *Works:* Concerto for Organ and Orchestra; symphonic works: Musica Festiva, Divertimento 1 and 2; opera: Tragedy of Firenze; chamber music, vocal compositions, etc. *Publications:* Methods of Musical Reading and Writing, Kodály's Principles in Practice. *Leisure interests:* gardening, cooking. *Address:* Tamási Áron-utca 3, 1124 Budapest XII, Hungary. *Telephone:* 260-518.

SZOPA, Jerzy, M.SC.; Polish engineer and politician; b. 29 Jan. 1930, Piotrków Trybunalski; s. of Stefan and Genowefa Szopa; m. Zofia Szopa 1952; one s. one d.; ed. State Nautical School and Gdańsk Technical Univ.; Stoker, then Officer, on cargo ships: Chief Mechanic, then Technical Man., Polish Ocean Lines; Under-Sec. of State, Ministry of Shipping 1965-69; Minister of Shipping 1969-73; mem. Polish United Workers' Party (PZPR); mem. Cen. Cttee. 1971-75; Deputy Sec.-Gen. COMECON, Moscow 1974-; Order of Banner of Labour (2nd Class) 1969. *Address:* Council for Mutual Economic Assistance, Prospekt Kalinina 56, Moscow, U.S.S.R. *Telephone:* 290-80-36.

SZOZDA, Andrzej, M.ENG.: Polish politician; b. 21 Feb. 1932, Kraśniczyn; s. of Stanisław and Zofia Gtowacka; m. 1952; two s.; ed. Polytechnic Univ. of Poznań and Warsaw Univ.; Building Man. 1949-55; Senior Insp., High Control Authority (NIK) 1955-56; Deputy Dir. of Building Enterprises Corpn. in Poznań 1956-63, Pres. in Wrocław 1964-69; Deputy Minister of Building and Building Materials Industry 1969-75, First Deputy Minister 1975-76; Minister of Energetics and Atomic Energy 1976-; mem. Polish United Workers' Party (PZPR); Order of Banner of Labour (2nd Class) and other decorations. *Leisure interest:* hunting. *Address:* Ministerstwo Energetyki i Energii Atomowej, ul. Mysia 2, 00-955 Warsaw, Poland. *Telephone:* 21-24-60.

SZURDI, István; Hungarian politician; b. 1911, Nagyszöllös; s. of Istvan Szurdi; m. Marta Kreisler 1935; two s.; Manual industrial worker, later technician until 1945; mem. Hungarian Socialist Democratic Party 1936-, full-time party functionary 1946-; mem. Nat. Assembly 1948-; Sec. Cen. Cttee. Hungarian Socialist Workers' Party 1963-66; Minister of Internal Trade 1966-76; Pres. Nat. Council of Tourism 1976-. *Leisure interest:* sports. *Address:* Budapest 1, Milialy-utca 5/6, Hungary. *Telephone:* 669-930.

SZYDLAK, Jan; Polish politician; b. 24 Nov. 1925, Siemianowice, Silesia; ed. Party School, Cen. Cttee., Polish United Workers' Party (PZPR), Warsaw; mem. Katowice Voivodship Cttee., Polish Workers' Party (PPR) 1947; Vice-Chair. Voivodship Board, Polish Youth Union, Kielce 1948, subsequently in Szczecin; Head, Propaganda Dept., PZPR Voivodship Cttee., Katowice 1951, Sec. 1952-54; Sec. Cen. Board of Polish Youth Union 1954-57; Sec. PZPR Voivodship Cttee., Katowice 1957-60; First Sec. PZPR Voivodship Cttee., Poznań 1960-68; mem. Cen. Cttee. PZPR 1964-, Sec. Cen. Cttee. of PZPR 1968-77; mem. alt. Politburo 1968-70, mem. Politburo 1970-; Deputy to Seym 1961-; mem. Presidium All-Polish Cttee. of Nat. Unity Front 1970-; Chair. Cen. Board of Polish-Soviet Friendship Soc. 1971-, Party-State Comm. on Econ. Modernization 1971–; Deputy Chair, Council of Ministers Dec. 1976-; Deputy Chair. Council for Family Affairs attached to the Council of Ministers 1978-; Order of Banner of Labour (1st and 2nd Class), Commdr. Cross of Polonia Restituta, Order of Builders of People's Poland 1975. *Address:* Biuro Polityczne KC, Polska Zjednoczona Partia Robotnicza, Nowy Swiat 6, 00-497 Warsaw, Poland.

SZYMBORSKA, Wisława; Polish poetess, translator and literary critic; b. 2 July 1923, Prowent-Bnin near Poznań; m.; ed. Jagiellonian Univ., Cracow; first work published 1945; mem. Polish Writers' Assen. 1952-, mem. Gen. Board 1978-; mem. Editorial Staff Zycie Literackie (weekly) 1953-; Gold Cross of Merit 1955, Knight's

Cross, Order of Polonia Restituta 1974. *Publications:* poetry: Dlatego żyjemy 1952, Wołanie do Yeti 1957, Sól 1962, Sto pociech 1967, Poezje 1970, Wszelki wypadek 1972, Wybór wierszy (Selected Poems) 1973, Wielka liczba 1976. *Address:* Ul. 18 Stycznia 82/89, 30-079 Cracow, Poland.

SZYR, Eugeniusz; Polish economist and politician; b. 16 April 1915, Ładygowice, Zywiec district; m.; one d.; mem. Union of Polish Communist Youth 1930-34, later Polish CP 1934-36; Spanish Civil War 1936-38; prisoner in concentration camps in France and Algeria 1940-43; Polish Army, U.S.S.R. 1944; Under-Sec. in Ministry of Industry and Commerce 1946-49; Deputy Chair. State Comm. for Econ. Planning 1949-53, Chair. 1954-56; Sec. of Econ. Cttee., Council of Ministers 1957-59; Vice-Pres. Council of Ministers 1959-72; Chair. Ctee. of Science and Technology 1963-68; Chair. Polish Cttee. of Solidarity with Nations of Africa and Asia 1965-; mem. Cen. Cttee. Polish United Workers' Party; mem. Politburo 1964-68; Deputy to Seym 1952-56, 1961-68, 1972-76; Vice-Chair. Chief Council of Union of Fighters for Freedom and Democracy 1948-; Chair. State Council of Economy of Materials 1972-76; Minister of Economy of Materials March 1976-; Grunwald Cross 1949, Order of Banner of Labour 1950, 1964, Order of Builders of People's Poland 1974. *Address:* Urząd Gospodarki Materiałowej, ul. Wspólna 1/3, 00-529, Warsaw, Poland. *Telephone:* 213-850.

SZYSZLO, Fernando de; Peruvian painter; b. 5 July 1925; ed. School of Fine Arts, Pontificia Univ. Católica del Perú, Lima; Prof. of Art, Pontificia Univ. Católica del Perú and Coll. of Architecture, Nat. Univ. of Engineering; Visiting Critic Cornell Univ. 1962-63; Visiting Lecturer Yale Univ. 1966; first one-man exhbn., Lima 1947, later in New York, Washington, Ithaca, Rio de Janeiro, São Paulo, Mexico, Buenos Aires, Santiago de Chile, Bogotá, Caracas, Florence and Paris; group exhbns. include Biennali at Venice and São Paulo; represented in museums and public collections in North and South America; Carnegie Prize 1958, Guggenheim Int. Prize 1964. *Address:* Avenida Diagonal 550, Miraflores, Lima, Peru.

T

TABAI, Ieremia; Kiribati politician; fmr. Leader of the Opposition; Chief Minister of the Gilbert Islands 1978-79, also Minister of Local Govt.; Prime Minister of Kiribati (fmrly. Gilbert Islands) July 1979-. *Address:* Office of the Prime Minister, Tarawa, Kiribati.

TABARD DE GRIÈGES, (Léon Maurice) Dominique; French financial administrator; b. 16 Feb. 1911; ed. Lycée Condorcet; with Ministry of Finance, Budget Dept. 1935-46; joined Compagnie Universelle du Canal Maritime du Suez 1946, then Compagnie Financière de Suez, Dir.-Gen. 1957-; now Chair. and Gen. Man. Soc. Nat. d'Investissement; Vice-Chair. Cie. Financière de Suez, Cie. de St.-Gobain-Pont-à-Mousson; mem. Supervisory Board Banque de l'Indochine et de Suez; Officier Légion d'honneur; Hon. C.B.E. (U.K.). *Address:* 1 rue d'Astorg, Paris 75008, France. *Telephone:* 266-47-87.

TABATONI, Pierre, DR.ECON.; French professor; b. Feb. 1923, Cannes; s. of Joseph and Rose Tabatoni; m. Jacqueline Ferrat 1949; two c.; ed. Lycée de Cannes, Faculties of Letters and Law, Aix-en-Provence, London School of Econs., Harvard Univ.; Assoc. Prof. Univs. of Algiers and Aix-en-Provence 1950-54; Prof. Aix-Marseilles Univ., Dir. of Inst. of Business Admin. 1954-61; Prof. Univ. of Paris 1961-; Counsellor for Higher Educ., Ministry of Educ. 1969-73; Dir. of Cultural Affairs, French Embassy, Washington, D.C. 1973-75; Dir. CAB; Minister of Univs.; Dir. for Int. Univ. Relations, Ministry of Univs. 1975-78; State Sec. for Univs. 1977-; Chevalier, Légion d'honneur, Officier, Palmes académiques, Dr. h.c. (Brussels). *Publications:* Economics of Financial Institutions (co-author) 1963, Policy and Structures in Management Systems (co-author) 1975, Problems of European Management of Enterprises (Platt Report, OECD) 1960. *Leisure interest:* sailing. *Address:* 173 Boulevard Saint Germain, 75006 Paris, France. *Telephone:* 548-44-50.

TABIBI, Abdul Hakim, M.A., PH.D.; Afghan diplomatist; b. 7 Oct. 1924, Kabul; ed. Habibia High School, Kabul Univ., and George Washington and American Univs., U.S.A.; entered Ministry of Foreign Affairs 1954; First Sec. Perm. Mission to UN 1956-58, Counsellor 1959-61, Minister Counsellor 1961-64; Amb. to Yugoslavia and Bulgaria 1964-65; Minister of Justice and Attorney-Gen. 1965-66; Amb. to Japan and the Philippines 1967-70, to India, Nepal and Burma 1970-73; Gov. Asian Devt. Bank 1967; mem. UN Int. Law Comm. 1971-; del. to various UN and other int. confs.; decorations from Afghanistan, Yugoslavia and Japan. *Publications:* Law of the Sea and its Relation to the Countries without Sea Coast 1959, Free Access to the Sea for Land-locked Countries 1958, The Right of Transit 1970, and various articles. *Address:* c/o Ministry of Foreign Affairs, Kabul, Afghanistan.

TABOR, David, B.SC., PH.D., SC.D., F.R.S. ; British physicist; b. 23 Oct. 1913, London; s. of Charles Tabor and Rebecca Weinstein; m. Hannalene Stillschweig 1943; two s.; ed. Royal Coll. of Science, London, Cambridge Univ.; Tribophysics, CSIRO, Melbourne, Australia 1940-46; Asst. Dir. of Research, Cambridge Univ. 1946-61, Lecturer in Physics 1961-64, Reader 1964-73, Prof. 1973-, Head of Physics and Chem. of Solids, Cavendish Lab. 1969-; Int. Fellow, Stanford Research Inst. 1956; UNESCO Visiting Prof., Israel 1961; Russell Springer Visiting Prof. Univ. of Calif., Berkeley 1970; Nat. Award, American Soc. for Lubrication Engineers 1955, Wilson Award, American Soc. of Metals 1969, Inaugural Gold Medal for Tribology, Inst. of Mechanical Engineers 1972, Mayo D. Hersey Award, American Soc. of Mechanical Engineers 1974, Guthrie Medal, Inst. of Physics 1974. *Publications:* Hardness of Metals 1951, Gases, Liquids and Solids 1969 (with F.P. Bowden), Friction and Lubrication of Solids, Part I 1950, Part II 1964, Friction—an Introduction to Tribology 1973; contributions to learned journals on friction and adhesion. *Address:* 8 Rutherford Road, Cambridge, CB2 2HH, England. *Telephone:* (0223) 66477 (Office); (0220-21) 3336 (Home).

TABOR, Hans Rasmussen, DR.RER.POL.; Danish diplomatist; b. 25 April 1922, Copenhagen; s. of S. Rasmussen; m. Inger Petersen 1945; two d.; ed. Birkerød Statsskole and Univ. of Copenhagen; Sec., Gen. Secr. OEEC, Paris 1948-50; Sec. Ministry of Foreign Affairs, Copenhagen 1950-52; Asst. Head Danish del. to OEEC 1952-56; Branch Head Ministry of Foreign Affairs 1956, 1957-59; Deputy Sec.-Gen. Suez Canal Users' Assen., London 1957; Econ. Counsellor, Asst. Head Danish Mission to the European Communities 1959-61, Minister and Head 1961-64, Amb. 1963-64; Perm. Rep. to the UN 1964-67; Minister of Foreign Affairs 1967-68; Rep. of Denmark on the UN Security Council 1967-68; Amb. to Italy (also accred. to Malta) 1968-74; Perm. Rep. to UN 1974; Amb. to Canada Jan. 1975-. *Publications:* Danmark og Marshallplanen (Denmark and the Marshall Plan) 1961, De Seks og det økonomiske samarbejde i Vesten (The Six and Economic Co-operation in the Western World) Krig og Krise—Trods FN (War and Crisis—in spite of the United Nations). *Leisure interests:* tennis, swimming, reading. *Address:* Danish Embassy, Suite 702, 85 Range Road, Ottawa, Ont., Canada.

TAFT, Charles Phelps, B.A., LL.B., LL.D., D.C.L.; American lawyer, b. 20 Sept. 1897, Cincinnati; s. of William Howard Taft (27th President of U.S.A.) and Helen Herron; ed. Taft School, Watertown, Conn., and Yale Univ.; Prosecuting Attorney, Hamilton County, Ohio 1927-28; Govt. Arbitrator Toledo strikes 1934; mem. Cincinnati City Council 1938-42, 1948-51, 1955-57, Mayor 1955-57; Dir. Community War Services, Fed. Security Agency 1941-43; Dir. Wartime Economic Affairs, Dept. of State 1944-45; Pres. Fed. Council of Churches 1947-48; mem. Cen. Cttee. World Council of Churches 1948-54; Medal for Merit 1946; Republican. *Publications:* City Management—The Cincinnati Experiment 1933, You and I—and Roosevelt 1936, Why I Am for the Church 1947, Democracy in Politics and Economics 1950. *Address:* 1071 Celestial Street, Cincinnati, Ohio 45202, U.S.A. *Telephone:* 513-621-4227.

TAFT, Robert, Jr.; American politician; b. 26 Feb. 1917; ed. Yale and Harvard Univs.; admitted to Ohio Bar; partner, Taft, Stettinius & Hollister, Cincinnati 1946-47; mem. Ohio House of Reps. 1955-62; mem. 88th, 90th and 91st U.S. Congresses; Senator from Ohio 1971-77; practising lawyer 1977-; Republican. *Address:* 4300 Drake Road, Cincinnati, Ohio 45243, U.S.A.

TAGUCHI, Renzo; Japanese shipbuilding executive; b. 3 Feb. 1906, Yamagata Prefecture; s. of Keiji and Sei Taguchi; m. Sadako Taguchi 1933; three s. three d.; ed. Yonezawa Coll. of Technology; Chair. Ishikawajima Heavy Industries Co. Ltd.; Pres. Japan Machinery Fed., Japan Consulting Inst.; Vice-Pres. Tokyo Chamber of Commerce and Industry; Chair. Cttee. of Econ. Co-operation, Keidanren. *Leisure interest:* painting. *Address:* Ishikawajima-Harima Heavy Industries Co. Ltd.(IHI), New Ohtemachin Building, 2-chome 2-1, Ohtemachi, Chiyoda-ku, Tokyo 100, Japan.

TAHA, Mohammed Fathi; Egyptian meteorologist; b. 15 Jan. 1914, Cairo; ed. Cairo Univ. and Imperial Coll. of Science and Technology, London; Under-Sec. of State and Chair. Board of Dirs. Egyptian Meteorological Authority 1953-75; Meteorological Counsellor to Ministry of Civil Aviation 1976-; Vice-Pres. Int. Meteorological Org. (IMO) Cttee. for Africa 1947, Int. Aeronautical Fed. (IAF) 1965; mem. WMO Exec. Cttee. 1955-71, Second Vice-Pres. 1959-63, Pres. 1971-(79); Pres. Perm. Meteorological Cttee. of Arab League Org. 1971-77; Chair. Nat. Cttee. on Geodesy and Geophysics 1967-75; mem. Outer Space Exploration Cttee. for Peaceful Uses; mem. Nat. Cttee. Int. Council of Scientific Unions and many other nat. cttees. dealing with scientific research in Egypt. *Address:* Egyptian Meteorological Authority, Koubry El-Quobba P.O., Cairo, Egypt.

TAHER, Abdul Hadi, PH.D.; Saudi Arabian government official; b. 1930, Medina; ed. Ain Shams Univ., Cairo, and Univ. of California; entered Saudi Arabian Govt. service 1955; Dir.-Gen. Ministry of Petroleum and Mineral Resources 1960; Gov., Gen. Petroleum and Mineral Org. (PETROMIN), Riyadh 1962-; Man. Dir. Saudi Arabian Fertilizers Co. (SAFCO) 1966-76, Jeddah Oil Refinery 1970-; Dir. Arabian American Oil Co. (ARAMCO), Saudi Govt. Railways Corpn.; Trustee, Coll. of Petroleum and Minerals; mem. Industrial Research and Devt. Center, Saudi Arabia; Hon. mem. American Soc. of Petroleum Engineers. *Publications:* Income Determination in the International Petroleum Industry 1966, Development and Petroleum Strategies in Saudi Arabia (Arabic); lectures and papers on economic and petroleum affairs. *Address:* General Petroleum and Mineral Organization (PETROMIN), P.O. Box 757, Riyadh, Saudi Arabia.

TAIMUR AL-SAID, Tarik; Omani diplomatist; b. 2 July 1923; ed. English High School for Boys, Istanbul, Robert Coll., Istanbul, and Germany; commissioned in Muscat Army 1941-44; Chair. Admin., Muscat Mutrah Municipality 1945-47; in charge of Operational Area in Jabal War 1958-59; self-exile 1962-70; Prime Minister 1970-71; Personal Adviser for Diplomatic Affairs to Sultan of Oman,

Senior Amb. Extraordinary and Plenipotentiary 1972-; Chair. Board of Govs., Central Bank of Oman June 1975-; Order of Oman (1st Class). *Address:* P.O. Box 202, Muscat, Oman.

TAIROVA, Taira Akperovna, M.SC. (ENG.); Soviet engineer and politician; b. 7 Nov. 1913; ed. Azerbaijan Industrial Inst.; Engineer, Oil Industry, then Dir. Azerbaijan Research Inst. of Oil 1940-42; Head of Dept., Deputy Sec. on Oil Azerbaijan CP Cen. Cttee., then Sec. Azerbaijan CP Baku Cttee. 1942-49; Dozent Azerbaijan Oil and Chemical Inst. 1949-53; Chair. Azerbaijan Council of Trade Unions 1953-57; Sec. Azerbaijan Peace Cttee. 1948-53; mem. of Presidium 1948-65; Deputy Supreme Soviet of the U.S.S.R. 1954-58; del. World Women's Congress, Lausanne 1955; mem. Soviet Parl. dels. to Czechoslovakia 1955, Belgium 1956; Chair. Azerbaijan Scientific Technical Cttee. 1957-62; mem. Soviet del. to 13th Session of UN Gen. Assembly 1959; Minister of Foreign Affairs, Azerbaijan S.S.R. 1959-; Deputy Chair. Azerbaijan Council of Ministers 1963-68; Deputy, Supreme Soviet of Azerbaijan S.S.R. 1959-; mem. Soviet del. to India, Burma, Indonesia, Afghanistan 1960, to Tunisia 1962, to Tunisia and Algeria 1964; mem. Soviet del. to UN 23rd Session Gen. Assembly 1968, to 30th Session 1975; Order of Lenin, Order of Red Banner of Labour (six times), Badge of Honour and other awards. *Address:* Ministry of Foreign Affairs of Azerbaijan S.S.R., Baku, U.S.S.R.

TAITTINGER, Jean; French vintner and politician; b. 25 Jan. 1923, Paris; s. of Pierre Taittinger; m. Marie Corinne Deville 1948; three s. two d.; Deputy for Union pour la Nouvelle République, later Union des Démocrates pour la République (UDR), now Rassamblement pour la République 1958-; Mayor of Rheims 1959; Nat. Sec. UNR-UDT (Union Démocratique du Travail) 1967; mem. Exec. Office and Nat. Treas. UDR Feb.-Oct. 1968, Deputy Sec.-Gen. 1974-76; Vice-Pres. Finance Comm. of Nat. Assembly until 1968, Pres. 1968-71; Sec. of State, Ministry of Finance and Econ. Affairs 1971-73; Minister of Justice 1973-74; Minister of State for Justice March-May 1974; Pres. Soc. Le Grand Hôtel de la Rive Gauche, Hôtel Lutétia, Paris; Pres. l'Hôtel Saint Lazare Concorde; Pres. Soc. du Louvre 1977, Soc. des Hôtels Concorde 1978; Vice-Pres. Soc. de l'hôtel Terminus-Saint-Lazare; Admin. Soc. de l'hôtel Lutétia and Louvre dept. stores; mem. Comm. for Econ. Devt. of Champagne-Ardennes region. *Leisure interest:* dogs, especially basset hounds. *Address:* 177 rue St. Honoré, 75001 Paris, France. *Telephone:* 260-56-81.

TAJITSU, Wataru; Japanese banker; b. 25 March 1902, Tokyo; s. of Toyokichi Sakai and Teruko Tajitsu; m. Aiko Kusuda; one s. one d.; ed. Tokyo Univ.; joined The Mitsubishi Bank Ltd. 1926, Dir. 1955-, Man. Dir. 1959, Deputy Pres. 1961, Pres. 1964-70, Chair. 1970-75; Dir. The Tokyo Marine and Fire Insurance Co. Ltd., Kirin Brewery Co. Ltd., Kikkoman Shoyu Co. Ltd.; Chair. The Mitsubishi Foundation; Exec. Dir. Japan Fed. of Employers Assen., Fed. of Econ. Org.; Blue Ribbon Medal. *Address:* 6-41 Akasaka 7-chome, Minato-ku, Tokyo, Japan.

TAKEDA, Chobei; Japanese business executive; b. 29 April 1905; ed. Keio Gijuku Univ.; President, Takeda Chemical Industries Ltd. until 1974, Chair. 1974-. *Address:* Takeda Chemical Industries, 27 Doshomachi 2-chome, Higashi-ku, Osaka, Japan.

TAKEIRI, Yoshikatsu; Japanese politician; b. 10 Jan. 1926, Nagano Prefecture; m. Kiku Takeiri 1951; one s. two d.; ed. Inst. of Politics (Seiji Daigakko); with Japan Nat. Railways 1948-59; Bunkyo Ward Assembly, Tokyo 1959; Tokyo Metropolitan Assembly 1963-67; Vice-Sec.-Gen. Komeito (Clean Govt.) Party Nov. 1964-67, Chair. 1967-; mem. House of Reps. 1967-. *Leisure interests:* movies, fishing. *Address:* 17 Minami-Motomachi, Shinjuku-ku, Tokyo 160, Japan. *Telephone:* 353-0111.

TAKEMI, Taro; Japanese physician; b. 7 March 1904, Kyoto; m. Eiko Akizuki 1941; two s. two d.; ed. Keio Univ. School of Medicine; Pioneer in study of medical application of nuclear physics; mem. team measuring radioactivity of atomic bomb, Hiroshima 1945; built the first portable electro-cardiograph 1937; invented the vectorcardiograph 1939; also patented the method of extracting chlorophyll and the mfg. process for pentose nucleotide; Asst., Keio Univ. Hops. 1930-37; Inst. of Physical and Chem. Research 1938-50; Takemi Clinic 1939-; now also Visiting Prof. at Keio, Kitasoto and Tokai Univs.; Vice-Pres. Japan Medical Assen. 1950, Pres. 1957-; Pres. World Medical Assen. 1975-76; also of Japan-Latin America Medical Assen. and Japan-Italy Medical Assen.; Vice-Pres. Japan-WHO Assen.; Adviser, Nat. Cancer Centre; Trustee, Japan Cancer Soc., Princess Takamatsu Cancer Research Fund; Auditor, Nishina Memorial Foundation, Waksman Foundation; Pres. Keio Univ. Medical School Alumni Assen.; Commdr., Italian Order of Merit 1963, Cultural Gold Medal (Italy) 1964, Award for Cultural Merit (Italy) 1964, Silver Medal from Pope Paul VI 1966, Diploma from Lisbon Univ. 1968, Gold Medal from Milan Univ. 1967, from Italian Tuberculosis Soc. 1968, Medal of Grand Distinction from Brazilian Acad. of Mil. Medicine 1972, Grand Cross of Honour of Fed. German Order of Merit 1974, Order of Rising Sun (First Class) 1975, Special Cravat of Order of Brilliant Star (Taiwan) 1976, Nat. Order of Southern Cross (Brazil) 1976, Hon. K.B.E. 1977, Grande Ufficiale nell'Ordine (Italy), Civil Merit Mu Gung Hua Medal (Repub. of Korea), The Golden Heart Presidential Award (Philippines). *Publications:* An Epigram on Medical Affairs, My Memoirs, numerous papers. *Address:* c/o Seisho-kan 2, Ginza 4-chome, Chuo-ku, Tokyo 106; 48-8, Moto-Azabu 3-chome, Minato-ku, Tokyo 104, Japan (Home). *Telephone:* 03-401 2439 (Home).

TAKEUCHI, Shunichi; Japanese oil executive; b. 17 Jan. 1896, Osaka; s. of Taketaro and Shin Takeuchi; m. Shizuko Yanase 1919; one s.; ed. Tokyo Higher Commercial School; Mitsubishi Holding Co. 1917; Mitsubishi Trading Co. Ltd. 1918-40, Man., Produce Dept., London Branch 1921-29, Asst. Gen. Man., New York Branch 1934-35, Gen. Man., San Francisco and Seattle Branches 1935-40; Gen. Man., Mitsubishi Oil Co. Ltd. 1941, Dir. and Pres. 1946-61, Chair. of Board 1961-66, Senior Adviser 1966-; Dir. Japan Productivity Centre 1958-; Pres. Japan Management School 1958-; Chair. of Board of Dirs. The English Language Educ. Council Inc. 1963-; Vice-Pres. The Japan-British Soc., Tokyo 1964-; Blue Ribbon Award 1959, Order of the Rising Sun (Third Class) 1966. *Leisure interests:* travelling, reading, theatre-going. *Address:* 5-31, 2-chome Matsugaoka, Kugenuma, Fujisawa City, Japan. *Telephone:* 0466-22-3405.

TAKLA, Philippe; Lebanese politician and banker; b. 3 Feb. 1915; ed. Univ. Law School, Beirut; Law practice, Beirut 1935-45; M.P. 1945, 1947-; Minister of Nat. Economy and Communications 1945-46; Minister of Foreign Affairs 1949, 1961-63, 1964-65, 1966; Gov. Bank of Lebanon 1963-66, 1966-67; Perm. Rep. to UN 1967-68; Amb. to France 1968-71; Minister of Foreign Affairs 1974-76, also of Educ. and Planning 1975-76. *Address:* c/o Ministry of Foreign Affairs, Beirut, Lebanon.

TAKRITI, Saddam Hussein (see Hussein, Saddam).

TAL, Josef; Israeli composer; b. 1910, Poland; ed. Berlin State Acad. of Music; went to Israel 1934; taught piano and composition at Jerusalem Acad. of Music 1937, Dir. 1948-52; Head, Dept. of Musicology, Hebrew Univ., Jerusalem 1965-71; Dir. Israel Centre for Electronic Music 1961-; Pres. Israel Music Council 1975-; has appeared with Israel Philharmonic Orchestra and others as pianist and conductor; concert tours of Europe, U.S.A. Far East; UNESCO Scholarship for research in electronic music; mem. Acad. of Arts, West Berlin; Israel State Prize 1970. *Works include:* Saul at Ein Dor 1957, Amnon and Tamar 1961 (short operas); Ashmedai 1971, Massada 1973, The Temptation 1976 (full operas), Symphony No. 1 1953, No. 2 1960, Concerto for Harpsichord and Electronics 1964, Double Concerto (for violin and violoncello) 1970, other cantatas, quintets, music for ballet and several books on the theory of music. *Address:* 3 Dvora Haneviyah Street, Jerusalem, Israel (Home). *Telephone:* 228736 (Home).

TALAAT, Ahmed Samih, M.L.; Egyptian lawyer and politician; b. 23 Nov. 1920, Cairo; s. of Abd-el-Wahab Pacha Talaat and Hamida Hilmy; m. Nazly el-Chourbagy 1955; two s.; ed. Elsaideyha Secondary School, Faculty of Law; began career as Asst. Prosecutor 1942-51; Judge 1951-58; Deputy of Court 1958-59; Chief of Court 1959-63; Counsellor at Appeal Court 1963-67; Gen. Lawyer 1967-69; expelled from office 1969; reinstated as counsellor for Court of Cassation (Supreme Court) 1977; Supreme Counsel, Union Supreme Court, United Arab Emirates 1973-76; Minister of Justice, Egypt 1976-78; resgnd. 1978; lawyer and law consultant, farmer 1978-; awards include Kuwait Badge of Honour (First Class) 1977. *Leisure interests:* rowing, reading, farming. *Address:* 321 El-Ahram Street, Guiza, Cairo, Egypt. *Telephone:* 851730, 853116.

TALBOT, Frederick Hilborn, S.T.M.; Guyanese diplomatist; b. 13 Oct. 1927, Mahaicony, East Coast Demerara; m. Sylvia Ross; ed. Allen Univ., South Carolina, Yale Univ. and Pacific School of Religion, Calif.; Pastor, St. Peter's A.M.E. Church, Georgetown 1961-71; Caribbean Consultant of Church World Service; Chair. Guyana Council of Churches; mem. World Methodist Org., Board of Poor Law Commrs. of Guyana, Govt. Hospitals Cttee., etc.; Perm. Rep. to UN 1971-73; Amb. to U.S.A. 1973-75; High Commr. to Canada 1973-74, to Jamaica (also accred. to Barbados, the Dominican Republic and Grenada) 1975-; hon. degrees from Wilberforce Univ., Payne, Edward Waters and Monrovia Colls. *Address:* High Commission of Guyana, 31 Old Hope Road, P.O.B. 262, Kingston 5, Jamaica.

TALBOTT, John Harold, A.B., D.SC., M.D.; American physician, professor and editor; b. 10 July 1902, Grinnell, Ia.; s. of Arthur David and Caroline (née Flook) Talbott; m. Florence Mildred Cherry 1932; one s. one d.; ed. Grinnell High School, Grinnell Coll., Harvard Medical School and postgraduate studies at M.I.T., Univ. of Göttingen, Univ. of Innsbruck; Faculty, Harvard Medical School 1931-46; Medical Staff, Mass. Gen. Hosp. 1931-46; Prof. of Medicine, Univ. of Buffalo 1946-59; Physician-in-Chief, Buffalo Gen. Hosp. 1946-59; Dir. Div. of Scientific Publs., American Medical Assen. (AMA) and Editor Journal of AMA 1959-60, Editor Emer. 1970-71; Clinical Prof. of Medicine, Univ. of Miami 1971-; Ed. Seminars in Arthritis and Rheumatism 1971-; Consulting Ed. Merck Manual 1969-; served to Col., Army of U.S., C.O. Climatic Research Lab. 1941-46, Dir. U.S. Army Frostbite Comm. to Korea 1951; Chair. Josiah Macy Jr. Conf. on Cold Injury 1952-58; mem. Scientific Advisory Panel of the Army 1958-60; mem. American Coll. of Physicians (ACP), also Gov. ACP, Western New York 1955-60. *Publications:* Gout 1943, 1953, 1957, 1964, 1967, Collagen-Vascular Diseases (with R. Ferrandis) 1956, Progress in Arthritis (with L. M. Lockie) 1958, A Biographical History of Medicine 1970, Collagen-Vascular Diseases 1974, Gout and Uric Acid Metabolism (with T. F. Yü) 1976, Fundamental and Clinical Aspects of Internal Medicine, Rheumatology 1978. *Leisure interests:* skiing, tennis, writing, travel. *Address:* Department of Medicine D8-7, University of Miami School of Medicine, P.O. Box 016960, Miami, Fla. 33101 (Office); Commodore Club, 177 Ocean Lane Drive, Key Biscayne, Fla. 33149, U.S.A. (Home). *Telephone:* (305) 547-6325 (Office); (305) 361-9432 (Home).

TALBOYS, Rt. Hon. Brian Edward, P.C., M.P.; New Zealand farmer and politician; b. 7 June 1921, Wanganui; s. of F. P. Talboys; m. P. F. Adamson 1950; two s.; ed. Wanganui Collegiate School, Univ. of Manitoba, Canada, Victoria Univ., Wellington; served R.N.Z.A.F. in Second World War; joined New Zealand Dairy Exporter 1950, later Asst. Ed.; has 500-acre farm, Heddon Bush, Southland; M.P. 1957-; Parl. Under Sec. to Minister of Trade and Industry 1960-62; Minister of Agric. 1962-69, of Educ. 1969-72, of Science 1964-72; Minister of Trade and Industry and Minister of Overseas Trade Feb.-Dec. 1972; Deputy Prime Minister, Minister of Foreign Affairs and Minister of Overseas Trade Dec. 1975-, also Minister of Nat. Devt. 1975-77; Privy Councillor Jan. 1977-; mem. National Party, Deputy Leader 1974-. *Address:* Parliament House, Wellington; 1 Hamilton Avenue, Winton, New Zealand (Home). *Telephone:* 533 (Home).

TALHOUNI, Bahjat Khadr al-; Jordanian lawyer and politician; b. 1913, Ma'an; m. three c.; ed. Damascus Univ.; former Pres. Court of Appeal; Minister of Interior, Minister of Justice and Chief of Royal Court 1953-60; mem. of Senate 1960-63, 1964-74, Pres. 1974-; Prime Minister 1960-62, 1964-65, 1967-69, Aug. 1969-June 1970; Minister for Foreign Affairs 1967-68, of Defence 1968-69, of Interior April-Sept. 1968; Chief of Royal Cabinet 1963-64, 1969, 1973-74; mem. Consultative Council 1967-; Arab and foreign decorations. *Address:* The Senate, Amman, Jordan. *Telephone:* 22110.

TALI, Alhaji Yakubu Tolon Na; Ghanaian Chief and diplomatist; b. Tolon; s. of Al-Hassan Sulemana and Ayishetu Dindow; m. Amina Abudulai 1938; two s. six d.; ed. Achimota; Teacher, Northern Territories 1938-47; Tali Na (Chief of Tali) 1947-53; Tolon Na (Chief of Tolon) 1953-; Chair. Dagomba Native Authority Council 1949, later Dagomba District Council; mem. Gold Coast Legislative Assembly, later Ghana Legislative Assembly 1951-66, fmr. Deputy Speaker; Pres. Northern Territories Council 1953-58; High Commr. of Ghana in Nigeria 1965-67; Ghana Mission to UN 1960, 1961, 1969; Ghana Amb. to Yugoslavia, Bulgaria and Romania 1970-72; High Commr. to Sierra Leone and concurrently Amb. to Guinea 1972-75; mem. Coussey Constitutional Cttee. 1949, Commonwealth Parliamentary Confs. Kuala Lumpur 1963, Jamaica 1964; Northern People's Party. *Leisure interests:* riding, polo, pets, travel, golf. *Address:* c/o Ministry of Foreign Affairs, Accra, Ghana.

TALIB, Maj.-Gen. Naji; Iraqi soldier and politician; b. 1917; ed. Iraqi Staff Coll., and Sandhurst, England; Mil. Attaché, London 1954-55; Commdr. Basra Garrison 1957-58; Minister of Social Affairs 1958-59; lived abroad 1959-62; Minister of Industry 1963-64; mem. U.A.R.-Iraq Joint Presidency Council 1964-65; Minister of Foreign Affairs 1964-65; Prime Minister and Minister of Petroleum Affairs 1966-67. *Address:* Baghdad, Iraq.

TALLCHIEF, Marjorie; American ballerina; b. 1927; m. George Skibine (*q.v.*) 1947; two s.; ed. Beverly Hills High School, Calif.; daughter of the Chief of the Osages Indians; studied with Bronislava Nijinska; joined American Ballet Theatre; *created role of* Medusa in Undertow; Prima Ballerina, Ballet de Monte Carlo 1948, American Ballet Theater 1960; *created leading roles in* Somnambula, Concerto Barrocco, Les Biches, Boléro, Idylle, Prisoner of the Caucasus and Annabel Lee; Première Danseuse Etoile, Paris Opera 1957-, *leading roles in* The Firebird, Les Noces Fantastiques, Giselle, Conte Cruel, Concerto and numerous other ballets; Prima Ballerina, Hamburg State Opera 1965-; Chevalier du Nicham-Iftikar.

TALMADGE, Herman Eugene; American politician; b. 9 Aug. 1913, Telfair County, Georgia; s. of Eugene and Mattie Thurmond Talmadge; m. Elizabeth Shingler 1941 (divorced 1977); two s.; ed. Univ. of Georgia; practised law in Atlanta 1936-41; served with U.S. navy leaving with rank of Lieut-Commdr. 1941-45; Gov. of Georgia 1948-55; U.S. Senator from Georgia 1957-; mem. American Bar Assen., Farm Bureau Fed.; Chair. Richard B. Russell Library Foundation 1971-74; Democrat. *Address:* 109 Senate Office Building, Washington D.C. (Office); 2801 New Mexico Avenue, N.W., Washington, D.C. U.S.A. (Home). *Telephone:* (202) 224-3643 (Office).

TALÙ, Naim; Turkish banker and politician; b. 22 July 1919, Istanbul; s. of Havva Mirat and Mehmet Nizamettin; m. Gevher Erdoğan 1946; two d.; ed. Faculty of Economics, Istanbul Univ.; joined Türkiye Cumhuriyet Merkez Bankasi (Central Bank of Repub. of Turkey) 1946, Chief 1952, Asst. Dir. of Ankara Branch 1955-58, Dir. of Exchange Dept. 1958-62, Asst. Gen. Dir. 1962-66, Acting Pres. and Gen. Dir. 1966-67, Pres. and Gen. Dir. 1967-70, Chair. Board and Gov. 1970-71; Chair. Foreign Investment Encouragement Cttee. 1967-68; Chair. Banks Assen. of Turkey 1967-71; Sec.-Gen. Cttee. for Regulation of Bank Credits 1967-70; Minister of Commerce 1971-73; Prime Minister April 1973-Jan. 1974; mem. Senate 1972-76; Chair. Akbank T.A.S., Akçimento Ticaret A.S., Olmuk Mukvva San. ve Tic. A.S., April 1976-; mem. Ankara Educ. Foundation, Soc. for Protection of Children in Turkey. *Leisure interests:* playing bridge, sailing, swimming, tennis. *Address:* Akbank T.A.S., Findikli, Istanbul, Turkey. *Telephone:* 49-41-22.

TALVELA, Martti Olavi; Finnish opera and concert singer; b. 4 Feb. 1935, Hiitola; s. of Toivo and Nelly Talvela; m. Anna Kääriäinen 1957; one s. two d.; Teacher Lahti Music High School 1958; Royal Opera House, Stockholm 1961-62; performances at Deutsche Oper, Berlin, Staatsoper, Hamburg, Vienna, Munich, Royal Opera, Covent Garden, Metropolitan Opera, New York, La Scala, Milan, also in Rome, San Francisco, Tokyo, Bayreuth, Salzburg 1962-; Artistic Dir. Savonlinna Opera Festival, Finland 1972-; has made numerous recordings, television appearances; Pro Finlandia 1973; Finnish State Prize 1973. *Leisure interests:* music, books, fishing. *Address:* c/o John Coast Management, 1 Park Close, London, S.W.1, England.

TAMAMES, Ramón, LL.D., D.ECON.; Spanish professor of economics; b. 1 Nov. 1933, Madrid; s. of Manuel Tamames, M.D. and Carmen Tamames; m. Carmen Prieto 1960; one s. two d.; ed. French Lycée, Madrid, Univ. of Madrid, London School of Econs.; Services Dir., Ministry of Commerce 1957-59; Full Prof., Univ. of Grenada 1968, Univ. Autónoma de Madrid 1975-; lectures and courses at Univs. of Mexico, Venezuela, Santo Domingo, Bologna, Rome, Marseilles, Berlin (Free Univ.), Brussels (Free Univ.); mem. Communist Party of Spain 1956-; mem. Exec. Comm. July 1976-; mem. Parl. for Madrid province 1977-; imprisoned several times for political opinions. *Publications:* 26 books incl. Introduction to the Economy of Spain, Economic Structure of Spain 1960, Origins and Development of the European Common Market 1964, International Economic Structure 1971, The Spanish Republic and the Era of Franco 1973, Ecology and Development 1977, The Spanish Financial Oligarchy 1977, Inevitable Socialism 1977. *Leisure interests:* painting, swimming. *Address:* Dr. Fleming 16, Madrid 16, Spain. *Telephone:* 2597894, 2595447.

TAMBO, Oliver; South African politician; b. 1917; ed. Anglican mission schools and Univ. Coll. of Fort Hare, Cape Province; Teacher, Secondary School; Solicitor, Johannesburg, 1951-60; banned from attending meetings 1954-56 and for five years 1959-; arrested on treason charges 1956, charges withdrawn 1957; Deputy-Pres. African Nat. Congress 1958-67, Acting Pres. 1967, Pres. 1977; escaped to London 1960; mem. del. of exiled reps. of S. African parties to Third Conf. of Independent African States, Addis Ababa 1960; attended UN Gen. Assembly (15th Session) 1960; Head, External Mission of African Nat. Congress of South Africa. *Address:* African National Congress of South Africa, P.O. Box 2239, Dar es Salaam, Tanzania; 28 Penton Street, London N.1, England. *Telephone:* 28031 (Tanzania); 01-837 2012 (England).

TAMIYA, Hiroshi, D.SC.; Japanese biologist; b. 5 Jan. 1903, Osaka; s. of Koreharu and Masayo Tamiya; m. Nobuko Seida 1928; one d.; ed. Imperial Univ. of Tokyo; Prof. of Botany, Univ. of Tokyo 1939-55, Dir. of Inst. of Applied Microbiology, Univ. of Tokyo 1955-

63, Prof. Emer. 1963-; Dir. The Tokugawa Inst. for Biological Research 1946-70; mem. Special Cttee. of Int. Biological Programme 1964-74, Vice-Pres. 1967-74; Chair. Japanese Nat. Cttee. for Int. Biological Programme 1964-74; Ed. Archiv für Mikrobiologie, Journal of Biochemistry, Plant and Cell Physiology, Journal of General and Applied Microbiology; mem. Japan Acad., Deutsche Akademie der Naturforscher; Foreign Assoc. U.S. Nat. Acad. of Sciences; Prize and Medal from Fujiwara Foundation; Acad. Prize from Acad. of Japan. *Publications:* scientific works on metabolism of fungi, action mechanisms of respiratory enzymes, kinetics of enzyme action, mass-cultures of algae, mechanism of photo-synthesis, growth physiology of micro-algae. *Leisure interest:* music. *Address:* Shinjuku-ku, Shimotochiai 3-9-10, Tokyo, Japan. *Telephone:* 03-951-3172.

TAMURA, Hajime; Japanese politician; b. 1924; elected to House of Reps. eight times 1955-; fmr. Chair. Construction and Finance Cttees. of House of Reps.; fmr. Chair. Public Relations Cttee. of Liberal Democratic Party (LDP); assoc. of Kakuei Tanaka (*q.v.*); Minister of Labour 1972-74; Minister of Transport 1976-77. *Address:* c/o Ministry of Transport, Tokyo, Japan.

T'AN CHEN-LIN; Chinese politician; b. 1902, Yu-hsien, Hunan; ed. Juichen Red Army Univ. and Moscow Red Army Univ.; joined CCP 1926; participated in Autumn Harvest Uprising 1927; Political Commissar in Red Army during Civil and Sino-Japanese Wars; mem. 7th Cen. Cttee. of CCP 1945; Gov. of Chekiang 1949-50; Sec. CCP Chekiang 1949-52; Gov. of Kiangsu 1952-55; mem., Sec. of Secr., Deputy Sec.-Gen. 8th Cen. Cttee. of CCP 1956; mem. Politburo, CCP 1958-67; Vice-Premier, State Council 1959-72; Dir. Office of Agric. and Forestry, State Council 1962-67; Vice-Chair. State Planning Comm. 1962-67; criticized and removed from office during Cultural Revolution 1968; mem. 10th Cen. Cttee. of CCP 1973; Perm. Chair. Presidium Nat. People's Congress, Vice-Chair. Standing Cttee. 1975-, mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

T'AN CH'I-LUNG; Chinese party official; b. 1912, Kiangsi; Dir. Political Dept., Hunan-Hunpeh-Kiangsi Border Region 1937; Political Commissar Guerilla Force 1943, People's Liberation Army 1944-49; Deputy Sec. CCP Chekiang 1949-52, Sec. 1952-55; Political Commissar Chekiang Mil. District, PLA 1952-55; Gov. of Chekiang 1952-55; Acting Gov. of Shantung 1954; Alt. mem. 8th Cen. Cttee. of CCP 1956; Sec. CCP Shantung 1955-56, Second Sec. 1956-61, First Sec. 1961-67; Gov. of Shantung 1958-63; First Political Commissar Tsinan Mil. Region, PLA 1963; Sec. E. China Bureau, CCP 1965-67; criticized and removed from office during Cultural Revolution 1967; Alt. mem. 9th Cen. Cttee. of CCP 1969; Vice-Chair. Fukien Revolutionary Cttee. 1970; Sec. CCP Fukien 1971; Sec. CCP Chekiang 1972, First Sec. 1973-77; Vice-Chair. Chekiang Revolutionary Cttee. 1973, then Chair. until 1977; Chair. Tsinghai Revolutionary Cttee. 1977; First Sec. CCP Tsginghai 1977; First Political Commissar Tsinghai Mil. District; mem. 10th Cttee. of CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

TAN CHIN TUAN, Tan Sri, P.S.M. C.B.E., J.P.; Singapore banker and company director; b. 21 Nov. 1908, Singapore; ed. Anglo-Chinese School, Singapore; mem. Singapore Muncipal Comm. 1939-41; Deputy Pres. Singapore Legislative Council 1951-55; mem. Singapore Exec. Council 1948-55; Chair. Kinta Kellas Tin Dredging Ltd. 1969-74, Oversea-Chinese Banking Corpn. Ltd. 1966-, Fraser & Neave Ltd. 1957-, Great Eastern Life Assurance Co. Ltd. 1969-, Int. Bank of Singapore 1974-77, Malayan Breweries Ltd. 1957-, Wearne Bros. Ltd. 1974-, Overseas Assurance Corpn. Ltd. 1969-, Robinson & Co. Ltd. 1957-76, Sime Darby Holdings Ltd. 1973-75, The Straits Trading Co. Ltd. 1965-; Dir. Gopeng Consolidated Ltd. 1967-, Petaling Tin Berhad 1967-, Tronoh Mines Ltd. 1967-, United Malacca Rubber Estates Berhad 1969-, Tanjong Tin Dredging Ltd. 1969-75; Pres. Raffles Hotel Ltd. 1969-; Fellow, Inst. of Bankers (London) 1965, Australian Inst. of Man. 1962. *Address:* Oversea-Chinese Banking Corporation Ltd., OCBC Centre, Chulia Street, Singapore 1 (Office); 42 Cairnhill Road, Singapore 9 (Home).

TAN SHAN-HO; Chinese army officer; Commander Engineering Corps, PLA. *Address:* People's Republic of China.

TAN SIEW SIN, Hon. Tun, S.S.M., J.P.; Malayan businessman and politician; b. 21 May 1916, Malacca; s. of late Tun Tan Cheng Lock and Toh Puan Yeo Yeok Neo; m. Lim Cheng Neo 1947; three d.; ed. High School Malacca and Raffles Coll., Singapore; Malacca Municipal Commr. 1946-49; mem. Fed. Legislative Council 1948-, mem. Standing Cttee. on Finance 1949-55; mem. Rubber Producers' Council 1951-57, Vice-Chair. 1957; mem. Rubber Industry Replanting Board 1952-57, Vice-Chair. 1957; Pres. Malayan Estate Owners' Assen. 1956, 1957; mem. Malacca Chinese Advisory Board 1950-55; Hon. Sec. Malacca Branch, Malayan Chinese Assen. 1949-57, Chair. Malacca Branch 1957-61, Vice-Pres. Malayan Chinese Assen. 1957-61, Pres. 1961-74; Fed. Minister of Commerce and Industry 1957-59, Minister of Finance, Malaya 1959-63, Malaysia 1963-69; Minister with Special Functions May 1969-Sept. 1970; Minister of Finance 1970-74; Assoc. mem. IMF Cttee. of Twenty 1973-; Treas.-Gen. Alliance Party 1959-69, Vice-Chair. 1961-; Chair. Commonwealth Parl. Assen., United Malacca Rubber Estates Ltd. 1974-, Pacific Bank 1976-, Consolidated Plantations Ltd. 1977-; Pro-Chancellor Malaysia Nat. Univ. 1971-; Dir. Sime Derby Holdings Ltd. 1974-, Chair. Bd. 1976-77, Exec. Chair. 1977-; Dir. Unitac Ltd. 1951-57, Malaka Pinda Rubber Estates Ltd., United Malacca Rubber Estate Ltd., Leong Hin San Ltd. 1941-57, Siemens Components Sdn. Bhd, 1974, Highlands and Lowland Para Rubber Co. Ltd. 1974; Hon. LL.D. (Malaya) 1965; Grand Cross Order of Leopold II (Belgium) 1967, Seri Setia Mahkota 1967, Order of Sikatuna (Class Data) of the Philippines 1968, Bintang Mahaputera Kelas Dua of Indonesia 1970. *Leisure interests:* shooting, reading. *Address:* 8 Jalan Clifford, Kuala Lumpur 10-02, Malaysia. *Telephone:* 27171.

TANAKA, Hideho, B.A.; Japanese diplomatist; b. 17 May 1919, Sapporo; s. of Seisaburo and Aiko Tanaka; m. 1952; one d.; ed. Tokyo Univ. of Commerce; Dir. of Information Div., Ministry of Foreign Affairs 1961; Counsellor, Embassy in Nigeria 1964; Consul-Gen., Houston, U.S.A. 1965; Dir.-Gen. of Gen. Affairs Dept., Over[illegible] Tech. Co-operation Agency 1968; Deputy Dir.-Gen. Middle Eastern and African Affairs Bureau in Ministry 1970, Dir.-Gen. 1972-74; Amb. to New Zealand 1974-77, to Nigeria 1977-. *Publications:* Texas Fudoki (Topography of Texas), Mekong no Konjaku (The Mekong River, Past and Present); transl. into Japanese: Palestine or Israel (John Kimche). *Leisure interests:* golf, photography. *Address:* Embassy of Japan, P.M.B. 2111, Lagos, Nigeria.

TANAKA, Isaji; Japanese politician; b. 1906, Hyogo Prefecture; lawyer 1932; mem. Kyoto Muncipal Assembly 1933; Democratic Party mem. of the Diet 1946, joined Liberal Party 1948, subsequently elected twelve times to House of Reps. from Kyoto Prefecture; fmr. Minister of Justice, re-appointed 1972-73; Liberal Democratic Party. *Address:* c/o House of Representatives, Tokyo, Japan.

TANAKA, Kakuei; Japanese politician; b. 4 May 1918, Niigata Prefecture; s. of Kazuki Tanaka and Fume Tanaka; m. Hanako Sakamoto 1942; one d.; ed. Chuo Technical High School, Tokyo; est. own construction business 1937; building contractor in Tokyo 1940-47; mem. Lower House of Parl. 1947-; Parl. Vice-Minister of Justice Oct.-Nov. 1948; Minister of Posts and Telecommunications (Kishi Cabinet) 1957-58; Chair. Policy Research Council of Liberal Dem. Party 1961-62; Sec.-Gen. Liberal Democratic Party 1965-66, 1968-71; Minister of Finance 1962-65; Chair. Research Comm. on Municipal Policy, Liberal Dem. Party 1967-68; Minister of Int. Trade and Industry 1971-72; Pres. Liberal Dem. Party and Prime Minister 1972-74; Chair. Board of Dirs., Echigo Traffic Co. Ltd. 1960-; arrested on corruption charges July 1976, resigned from party leadership July 1976. *Publication:* A Proposal for Remodelling the Japanese Archipelago. *Leisure interest:* golf. *Address:* 12-19-12, Mezirodai, Bunkyo-ku, Tokyo, Japan. *Telephone:* 03-943-0111.

TANAKA, Kyubei, B.ECON.; Japanese banker; b. 8 March 1903, Wakayama Prefecture; s. of Roichi and Maki Tanaka; m. Kyoko Etoh 1935; one s. one d.; ed. Econ. Dept., Tokyo Imperial Univ.; Man. Dir. The Mitsui Bank Ltd. 1955-58, Senior Man. Dir. 1958-61, Deputy Pres. 1961-65, Pres. 1965-68, Chair. 1968-74, Dir. 1974, Counsellor 1974-; Blue Ribbon Medal, Order of the Rising Sun (Second Class). *Leisure interests:* 'Go', reading. *Address:* The Mitsui Bank Ltd., 1-2, Yurakucho 1-chome, Chiyoda-ku, Tokyo 100 (Office); 35-20, Sanno 1-chome, Ota-ku, Tokyo 143, Japan (Home). *Telephone:* 501-1111 (Office); 774-2777 (Home).

TANAKA, Masami; Japanese politician; ed. Tokyo Univ.; mem. House of Reps. (seven times); Chair. Social Cttee. of Liberal Democratic Party Policy Affairs Research Council; Parl. Vice-Minister of Health and Welfare; Minister of Health and Welfare 1974-76. *Address:* c/o Ministry of Health and Welfare, Tokyo, Japan.

TANAKA, Tatsuo; Japanese politician; b. 1911; s. of late Gen. Giichi Tanaka, fmr. Prime Minister; worked with Manchuria Railway Co.; elected Gov. of Yamaguchi after World War II; elected nine times to House of Reps. 1953-; worked on problems related to small businesses; various posts in admin. of late Eisaku Sato 1964-72, incl. Dir.-Gen. of Admin. Affairs in Office of PM, Parl. Vice-Minister of Econ. Planning Agency, Deputy Chief Cabinet Sec.; assoc. of Takeo Fukuda (*q.v.*); Minister of Int. Trade and Industry 1976-77; Liberal Democratic Party (LDP). *Address:* c/o Ministry of International Trade and Industry, Tokyo, Japan.

TANANAYEV, Ivan Vladimirovich; Soviet inorganic and analytical chemist; b. 4 June 1904, Serpovoe, Tambov Region; s. of Vladimir Aleksandrovich and Maria Ivanovna Tananayev; m. Galina Semionovna 1929; two d.; ed. Dept. of Chemistry, Polytechnical Inst., Kiev; Asst. in Analytical Chemistry, Kiev Polytechnical Inst. 1925-30, Docent 1930-34; Chief of Analytical Chemistry Laboratory, Acad. of Sciences of Georgian S.S.R., Tbilisi 1934-35; Science worker, Inst. of Gen. and Inorganic Chemistry of Acad. of Sciences of U.S.S.R., Moscow 1935-39, Doctor and Prof. 1939, Head, Analytical Lab. and Rare Elements Lab. 1939-48, Deputy Dir. 1948-54; mem. CPSU 1942; Lecturer, Inst. of Chemical Technology 1962-; Ed.-in-C Inorganic Materials 1965-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-58, mem. 1958-; mem. Inorganic Chemistry Section of IUPAC 1959-63; Kurnakov Premium 1948; State Prizes 1949, 1951, 1971; Mendeleev Gold Medal 1973, Order of Lenin (twice) and other decorations. *Publications:* The Physico-Chemical Analysis Method in Analytical Chemistry 1950, 1956, 1959, 1961, The Chemistry of Metal Fluorides 1938, Ferrocyanides of Metals 1938, Rare Elements Chemistry 1954, 1955, 1957, 1959, 1962-78, Phosphates of Metals 1962, The Chemistry of Fluorine Compounds of Actinides 1963, The Chemistry of Germanium 1967, The Chemistry of Ferrocyanides of four valent metals 1972; more than 400 articles. *Leisure interests:* playing and composing music. *Address:* Institute of General and Inorganic Chemistry of U.S.S.R. Academy of Sciences, 31 Leninsky Prospekt, 117071 Moscow, U.S.S.R.

TANASSI, Mario; Italian politician; b. 17 March 1916, Ururi, Campobasso; s. of Vicenzo Tanassi and Lucia Carrozza; m. Enrica Pappalardo 1943; three d.; ed. Italian public schools; Vice-Sec. Italian Socialist Democratic Party (PSDI) 1950, Sec. 1956-66 and Feb.-June 1972, Pres. 1969-75, Sec. 1975-76; Co-Sec. Unified Italian Socialist Party (PSI) 1966-69; mem. Chamber of Deputies 1963-; Minister of Industry and Commerce 1968-69; Minister of Defence 1970-72, 1972-73, 1973-74, of Finance March-Oct. 1974. *Leisure interest:* country life. *Address:* Largo Messico 7, Rome, Italy.

TANCO, Arturo R., Jr., M.I.L.R.; Philippine government executive; b. 22 Aug. 1933, Manila; s. of Arturo V. Tanco, Sr., and Felicia Roxas; m. Patricia Pickett 1962; one s. two d.; ed. De la Salle Coll., Manila, Ateneo de Manila Univ., Union Coll. of New York, Cornell and Harvard Univs.; Gen. Man. and mem. Board, Philippines Investment Management Inc. (PHINMA) 1956; Pres. and Gen. Man. Management and Investment Devt. Assoc. Inc. (MIDA) 1964; Under-Sec. for Agric., Dept. of Agric. and Natural Resources 1970-71; Pres. U.N. Food Council 1977-; Sec. of Agricultural and Natural Resources 1971-; mem. Parl. 1978; Hon. LL.D. (Los Banos, Philippines), Hon. D.Hum. (Central Luzon State Univ.). *Publications:* articles in magazines and newspapers including The Financial Times (London) and The Sunday Times Magazine (London). *Leisure interest:* football (soccer), basketball, darts, water skiing. *Address:* Ministry of Agriculture, Diliman, Quezon City (Office); No. 3 Second Street, Villamar Court, Parañaque, Rizal, Philippines (Home). *Telephone:* 99-89-46, 99-87-41 (Office).

TANFORD, Charles, PH.D.; American professor of biochemistry; b. 29 Dec. 1921, Halle, Germany; s. of Max and Charlotte Tanford; m. Lucia Brown 1948 (divorced 1968); three c.; ed. New York and Princeton Univs.; Lalor Fellow, Harvard Univ. 1947-49; Asst. Prof., Univ. of Iowa 1949-54, Assoc. Prof. 1954-59, Prof. 1959-60; Prof. Duke Univ. 1960-70, James B. Duke Prof. of Physical Biochemistry 1970-; mem. Whitehead Medical Research Inst. 1977-; George Eastman Visiting Prof., Oxford Univ. 1977-78; Pres. Biophysical Soc. 1979; Walker-Ames Prof. Univ. of Washington 1979, Reilly Lecturer, Univ. of Notre Dame 1979; Guggenheim Fellow 1956-57; mem. Nat. Acad. of Sciences. *Publications:* Physical Chemistry of Macromolecules 1961, The Hydrophobic Effect 1973; 175 scientific articles in various journals. *Leisure interests:* photography, hiking, travel. *Address:* Department of Biochemistry, Duke University, Durham, N.C. 27710 (Office); 1430 Mangum Street, Durham, N.C. 27701, U.S.A. (Home). *Telephone:* 684-5805 (Office); 688-8912 (Home).

TANG KE; Chinese politician; Vice-Minister, Petroleum Industry 1966-67; criticized and removed from office during Cultural Revolution 1967; Vice-Minister of Fuel and Chemical Industries 1971, 1975; Minister of Metallurgy Industry 1977-. *Address:* People's Republic of China.

TANG MING-CHAO; Chinese United Nations official; b. 1910, Kwangtung Province; ed. Tsinghua Univ. and Univ. of California, U.S.A.; former mem. Council, Chinese People's Inst. on Foreign Affairs, Chinese People's Assen. for Friendship with Foreign Countries; Deputy to Nat. Congress, People's Repub. of China; mem. del. to UN Gen. Assembly 1971; Under-Sec.-Gen. Dept. of Political Affairs, Trusteeship and Decolonization, UN April 1972-. *Address:* United Nations, First Avenue, New York, N.Y. 10017, U.S.A.

TANGE, Sir Arthur Harold, Kt., A.C., C.B.E., B.A.; Australian diplomatist; b. 18 Aug. 1914, Sydney; s. of Charles Tange and Maud Kingsmill; m. Marjorie Shann 1940; one s. one d.; ed. Univ. of W. Australia; Economist; Econ. Dept. Bank of N.S.W. 1938-40; various Australian Govt. Depts., Canberra 1942-45; First Sec., Dept. of External Affairs 1945; First. Sec., Australian Mission to UN, New York 1946-48; Counsellor, UN Div., Canberra 1948-50; Asst. Sec. Dept. of External Affairs 1951-53, Sec. 1954-65; Minister, Australian Embassy, Washington, D.C. 1953-54; High Commr. to India and Amb. to Nepal 1965-70; Sec. Dept. of Defence 1970-; mem. Australian del. Bretton Woods Monetary Conf., UN Preparatory Conf. UN Gen. Assembly 1946, 1947, 1950, 1951, and Econ. and Social Council, Reparations Conf., Paris; ILO, Paris, Montreal and San Francisco; Commonwealth Confs., London, Colombo, Sydney 1949-78, etc. *Leisure interests:* music, tennis, stream fishing. *Address:* 32 La Perouse Street, Canberra, A.C.T. 2603, Australia. *Telephone:* 958879.

TANGE, Kenzo, DR.ENG.; Japanese architect; b. 4 Sept. 1913, Osaka; s. of Tokiyo and Tei (Komaki) Tange; m. 1st Toshiko Kato 1949; m. 2nd Takako Iwata 1973; one s. one d.; ed. Tokyo Univ.; Prof. Univ. of Tokyo 1946-74, Emer. 1974-; mem. Japanese Architects Assen., Hon. mem. American Acad. of Arts and Letters, Akad. der Künste, West Berlin; Hon. Fellow American Inst. of Architects; Royal Gold Medal, Royal Inst. of British Architects 1965; AIA Gold Medal, American Inst. of Architects 1966; Medal of Honour, Danish Royal Acad. of Fine Arts, and several other awards; Hon. Dr. Arts (Harvard); Hon. doctorate (Sheffield Univ.); Hon. Dr. Fine Arts (Univ. of Buffalo); Hon. Dr.-Ing. (Technische Hochschule, Stuttgart); Hon. Dr. Arch. (Politecnico di Milano, Italy); Hon. D.Sc. (Univ. of Hong Kong); Grande Médaille d'Or, Acad. Française 1973, Ordre pour le Mérite (Fed. Repub. of Germany) 1976, Commdr. Ordre national du Mérite 1977. *Buildings include:* Peace Memorial Park and Buildings, Hiroshima, Tokyo City Hall, Tokyo, Kurashiki City Hall, Kurashiki, Kagawa Prefectural Govt. Office, Takamatsu, Roman Catholic Cathedral, Tokyo, Nat. Gymnasiums for 1964 Olympic Games, Tokyo, Kuwait Int. Air Terminal Bldg., Skopje City Centre Reconstruction Project, Skopje, Yugoslavia, Yamanashi Press and Broadcasting Centre, Yamahashi, Master Plan for Expo 1970, Osaka, Fiera District Centre, Bologna, Italy, Univ. Hospital and Dormitory, Oran, Algeria, Baltimore Inner Harbour Project, residential redevt. *Publications:* Katsura 1960, A Plan for Tokyo, 1960 1961, Ise 1962, Japan in the Future 1966, Kenzo Tange, 1946-1958 1966, Kenzo Tange, 1958-1964 1966, Kenzo Tange 1964-1969 1970, Japan in the 21st Century 1971. *Address:* 7-2-21 Akasaka, Minato-ku, Tokyo (Office); 1702, 2-3-34 Mita, Minato-ku, Tokyo 108, Japan (Home). *Telephone:* 408-7121/4 (Office); 455-2787 (Home).

TANGNEY, Dame Dorothy Margaret, D.B.E., B.A.; Australian politician; b. 1911; ed. Univ. of W. Australia; Teaching staff Education Dept. Western Australia; Hon. Life Assoc. Univ. of W. Australia; mem. Standing Cttee. of Convocation Univ. of W. Australia; mem. Federal Exec. Australian Labour Party; Senator for W. Australia 1943-68 (first woman to be elected to Commonwealth Senate). *Address:* 12 Mary Street, Claremont, W.A. 6010, Australia.

TANIDA, Toshio; Japanese shipping executive; b. 1897; ed. Tokyo Higher Commercial School; joined Mitsubishi Goshi Kaisha 1918, Mitsubishi Trading Co. 1918, Man. Steamship Dept. (Kobe branch) 1940, Man. Kobe branch 1942, Taipeh (Formosa) branch 1942, Dir. Mitsubishi Steamship Co. Ltd. 1946, Man. Dir. 1946; Man. Dir. Kyokuto Shipping Co. Ltd. 1949; Man. Dir. Mitsubishi Shipping Co. Ltd. 1949, Senior Man. Dir. 1949, Vice-Pres. 1957, later Pres.; Chair. Japan Tanker Owners' Assen. 1954; Dir. Japanese Shipowners' Assen. 1959-.

TANIGUCHI, Teyosaburo; Japanese textile executive; b. 29 July 1901, Osaka, Japan; s. of Fusazo and Etsu Taniguchi; m. Kinu Yashiro 1928; two s. two d.; ed. Tokyo Univ.; Exec. Dir. The Taniguchi Foundation 1929-; Dir. Osaka Godo Spinning Co. Ltd. 1929-31; Dir. Toyobo Co. Ltd. 1931-42, Exec. Vice-Pres. 1951-59, Pres. 1959-66, Chair. of Board 1966-72, Gen. Adviser 1972-77, Hon. Adviser 1977-; Auditor, Japan Exlan Co. Ltd. 1956-66; Rep. Dir. Kansai Cttee. for Econ. Devt. 1959-60; Pres. Toyobo-Howa Textile Eng. Co. Ltd. 1961-; Junion Vice-Pres. IFCATI 1964-66, Senior Vice-Pres. 1966-68, Pres. 1968-70; Chair. Japan Spinners Asscns. 1966-68; Vice-Pres. Japan Tax Assen. 1967-, Vice-Chair. Board of Councillors, Fed. of Econ. Organization 1968-; Pres. Expo Textile Assen. 1967-71, Japan Textile Color Design Center 1968-72, Japan Textile Fed. 1970-71; Supreme Adviser, Japan Textile Fed. 1971-; Blue Ribbon Medal (Ranju Hosho) 1965; Osaka Governor's award as man of merit for industry 1968; First Class Order of Sacred Treasure 1973. *Leisure interests:* golf, Haiku (17 syllables version). *Address:* Toyobo Co. Ltd., 1-9, Dojima Hama 2-chome, Kita-ku,

Osaka 530 (Office); 283 Gunge Kakiuchi, Mikage-cho, Higashinada-ku, Kobe, 658 Japan (Home). *Telephone:* 06 348-3251 (Office); 078-851-2327 (Home).

TANIMURA, Hiroshi, B.A.; Japanese financial official; b. 26 May 1916, Tokyo; m. Kyoko Saito 1943; two s.; ed. Tokyo Imperial Univ.; Ministry of Finance 1938-68, Chief Sec. to Minister 1963-65, Dir. of Budget Bureau 1965-67, Vice-Minister 1967-68; Chair. Fair Trade Comm. 1969-72; Pres. Tokyo Stock Exchange 1974-. *Publications:* two essays 1970, 1974. *Leisure interests:* painting, travelling. *Address:* c/o Tokyo Stock Exchange, 1-6 Kabuto-cho, Nihonbashi, Tokyo, Japan. *Telephone:* Tokyo 666-0141.

TANNERY, Jean-Paul; French business executive; b. 11 May 1911, Colmar; s. of Jacques and Suzanne (née Molk) Tannery; m. Yvonne Pilliard 1933; three s. one d.; ed. Lycées Montaigne and Louis-le-Grand, and Ecole Nat. Supérieure des Mines, Paris; Engineer, Société des Aciéries de Longwy 1934-53, Dir. Longwy works 1945; Asst. Dir.-Gen. Société Lorraine-Escaut (merger of Aciéries de Longwy, Senelle-Maubeuge and Escaut-et-Meuse) 1953-62, Dir.-Gen. 1962-66; Dir.-Gen. Société Usinor (merger of Usinor and Lorraine-Escaut) 1966; Dir.-Gen. Vallourec 1967-77, Dir. 1968-, Pres.-Dir.-Gen. 1973; Hon. Pres. 1977; Pres., Dir.-Gen. Le Métal Déployé 1976; Dir. of several other companies; Officier Légion d'honneur; Chevalier des Palmes académiques; Croix de guerre. *Address:* Vallourec S.A., 7 Place du Chancelier Adenauer, 75016 Paris (Office); 48 rue du Docteur-Blanche, 75016 Paris, France (Home). *Telephone:* 288-56-27 (Home).

TANNOUS, Afif I., B.A., M.A., PH.D.; American government official; b. 25 Sept. 1905, Bishmizzeen, Koura, Lebanon; s. of Ishak and Theodora Tannous; m. Josephine Milkey 1941; two s.; ed. American Univ. of Beirut, St. Lawrence Univ., Canton, N.Y., and Cornell Univ.; admin. position with British Govt. in Sudan 1929-31; with Educ. Dept., Govt. of Palestine and Rural Improvement Programme 1931-33; taught Social Science at American Univ. of Beirut and directed rural improvement work 1933-37; taught Social Science at Univ. of Minn., U.S.A. 1940-43; joined U.S. Dept. of Agric., as Middle East specialist, later Head of Middle East Div.; Advisory Ed., Middle East Journal 1947-; Lecturer on Middle East, School of Advanced Int. Studies, Washington, D.C. 1948-51; Deputy Dir. U.S. Technical Co-operation Service for Lebanon 1951-54; Co-ordinator, Dept. of Agric. Services to Technical Co-operation Admin. 1954-61; mem. U.S. Agricultural Mission to Middle East 1946; FAO Agricultural Mission, Greece 1946, UN Economic Survey Mission Middle East 1949; Chief Africa and Middle East Branch, Foreign Agric. Service 1956-61; Area Officer, Near East and Africa 1961-71; retd. Jan. 1971; mem. Board of Int. Centre for Dynamics of Devt., Washington, D.C. 1972-; Researcher and writer on Middle East Devt.; Deputy Dir. U.S. Exhibit, Cairo Int. Agricultural Exhbn. 1961; Founder mem. Soc. for Int. Devt.; mem. U.S. Dept. of Agric. Team for Appraisal of Agricultural Devt. in Egypt Oct.-Nov 1975; mem. American Acad. of Political and Social Science, American Assen. for Advancement of Science, American Sociological Assen., American Agricultural Econ. Assen. *Leisure interests:* hunting, hiking, gardening, reading. *Address:* 6912 Oak Court, Annandale, Va. 22003, U.S.A. *Telephone:* 256-0767.

TANOÉ, Appagny; Ivory Coast diplomatist; b. 1 Oct. 1929; ed. Univ. de Bordeaux; former Head Doctor, Centre Hospitalier, Abidjan; Vice-Pres. Econ. and Social Council of the Ivory Coast 1961-64; Amb. to France 1965-78. *Address:* c/o Ministry of Foreign Affairs, Abidjan, Ivory Coast.

TANS, Jean Guillaume Hubert; Netherlands politician; b. 19 Jan 1912; s. of J. W. Tans and C. Tans-Schrijnemaikers; m. J. B. M. van Hardenberg 1943; five s.; ed. at Univ.; Teacher in Secondary schools; mem. Second Chamber of Parl. 1954-70; mem. Municipal Council of Maastricht 1955-66; mem. Provincial States of Limburg 1958-66; mem. Party Cttee. Netherlands Labour Party 1961-; Chair. 1965-70; Chair. Prep. Cttee., Univ. of Limburg 1970-76; Chair. Governing Body, State Univ. of Limburg 1976-78; Freeman of Town of Maastricht 1975; Knight of Order of the Lion (Netherlands), Golden Medal of the Province of Limburg 1978, Medal of Univ. of Limburg 1978. *Leisure interests:* reading, gardening, walking. *Address:* Schweibergerweg 41, 6281 NE, Mechelen-Wittem, Netherlands. *Telephone:* 04455-1273.

TAOFINU'U, H.E. Cardinal Pio; Samoan ecclesiastic; b. 9 Dec. 1923, Falealupo, Savaii; s. of Solomona Taofinu'u and Mau Solia; ordained priest 1954; Bishop of Samoa and Tokelau 1968-; cr. Cardinal by Pope Paul VI March 1973. *Publication:* The Kava Ceremony is a Prophecy 1973. *Leisure interests:* gardening, music, art. *Address:* Cardinal's Office, P.O. Box 532, Apia, Western Samoa. *Telephone:* Apia 95.

TAPE, Gerald Frederick, M.S., PH.D.; American physicist and scientific administrator; b. 29 May 1915, Ann Arbor, Mich.; s. of Henry A. Tape and Flora Simmons Tape; m. Josephine Waffen 1939; three s.; ed. Eastern Michigan Univ., and Michigan Univ. Asst. in Physics, Eastern Mich. Univ. 1933-35, Univ. of Mich. 1936-39; Instructor in Physics, Cornell Univ. 1939-42; Staff mem. Radiation Lab. M.I.T. 1942-46; Asst., later Assoc. Prof. of Physics Univ. of Ill. 1946-50; Asst. to Dir. 1950-51, Deputy Dir., Brookhaven Nat. Lab. 1951-62; Vice-Pres. Associated Univs. Inc. 1962, Pres. 1962-63, 1969-; U.S. Atomic Energy Commr. 1963-69; U.S. Rep. to IAEA with rank of Amb. 1973-77; mem. President's Science Advisory Cttee. 1969-73; mem. Defense Science Board 1970-74, Chair. 1970-73; mem. AEC High Energy Physics Advisory Panel 1969-74; mem. IAEA Scientific Advisory Panel 1972-74; mem. Energy Research and Devt. Admin. Gen. Advisory Cttee. 1975-77; mem. Nat. Science Foundation Advisory Group on Science Programs 1975-76, Electric Power Research Inst. Advisory Council; Dir. Atomic Industrial Forum Inc. 1970-73; Dir. Science Service Inc. 1971-; Fellow, American Physical Soc., American Nuclear Soc., American Assen. for Advancement of Science; mem. American Astronomical Soc.; Hon. D.Sc. (E. Mich. Univ. 1964); Army-Navy Certificate of Appreciation 1947; Dept. of State Tribute of Appreciation 1969; Sec. of Defense Meritorious Civilian Service Medal 1969; Dept. of Defense Distinguished Public Service Medal 1973; Henry DeWolf Smyth Nuclear Statesman Award; Atomic Industrial Forum, American Nuclear Soc. 1978. *Publications:* co-author with L. J. Haworth Relay Radar Chapter of Massachusetts Institute of Technology Radiation Laboratory Technical Series; co-author with Dr. F. K. Pittman and M. F. Searl Future Energy Needs and the Role of Nuclear Power 1964, Proceedings of Third International Conference on Peaceful Uses of Atomic Energy 1964, Proceedings of the Thermionic Electrical Power Generation Symposium, Stresa 1968, Why We Test 1968, National Policy on Peaceful Uses of Nuclear Explosives 1969, The Next Twenty Years—IAEA's Role 1977. *Address:* 6717 Tulip Hill Terrace, Washington, D.C., U.S.A. *Telephone:* 301-229-6264.

TÀPIES, Antoni; Spanish painter; b. 13 Dec. 1923; self-taught; first one-man exhbn., Barcelona 1948, later in Paris, New York, London, Zürich, Rome, Milan, Munich, Stockholm, Hanover, Washington, Pasadena, Buenos Aires, Caracas, Düsseldorf, Bilbao, Madrid and Barcelona; French Govt. Scholarship 1950; UNESCO Prize, Venice Biennale and Pittsburgh International Prize 1958, Guggenheim Prize 1964, Rubens Prize 1972. *Address:* C. Zatagoza 57, Barcelona, Spain.

TARAKI, Nur Muhammed; Afghan politician; founder of Democratic Revolutionary (Khalq) Party; Gen. Sec. People's Democratic Party (formed from Khalq Party) 1978-; Pres. of Afghanistan April 1978-, Prime Minister 1978-79, C.-in-C. of Armed Forces Oct. 1978. *Publication:* Pushtu i De Band Mosafen 1978. *Address:* c/o Office of the President, Kabul, Afghanistan.

TARANCZEWSKI, Wacław; Polish painter; b. 4 March 1903, Czarnków Wielkopolski; s. of Sylwester and Waleria Taranczewski; m. Wanda Hryniewiecka; ed. Acad. of Fine Arts, Cracow and Warsaw; organized Poznań Higher School of Art 1945; Prof. of Monumental Painting, Cracow Acad. of Arts 1947-72, Prof. Emer. 1972-; works exhibited Brussels Int. Exhbn. 1935, Paris Exhbn. of Modern Art 1945, XXIX Venice Biennale 1958, etc.; Guggenheim Foundation Nat. Prize 1958, Prize of Minister of Culture and Art (1st Class) 1969, State Prize 1972 and numerous other awards; *easel and mural paintings, also cycles:* Mala Malarka (The Little Painter), Koncert w atelier (Concert in the Studio), Martwa natura ze światkiem (Still Life with Seated Christ), Martwa natura z wiolonczela (Still Life with 'Cello), Krakowska Wenus z Willenford (Cracow Venus from Willenford), Okno (Window); also numerous decorative works for churches, including polychromes in Poznań, Radom, Warsaw, stained-glass windows in Warsaw Cathedral, polychromes for the Philharmonic Hall, Poznań, and decorated ceilings in the State Council. *Address:* Ul. Siemaszki 13b m.4, 31-201 Cracow, Poland.

TARASOV, Nikolay Nikiforovich; Soviet politician; b. 7 Dec. 1911; ed. Moscow Textile Inst.; Foreman, Shop Superintendent, Dir. of Spinning Mill, Deputy Head of Cotton Mill, Orethovo-Zuevo 1935-42; Soviet Army 1942-45; Factory Head Engineer, Head Engineer, Cotton Industry Central Admin. of Moscow Region, Head, Cotton Industry Cen. Admin. of Ivanovo Region 1945-52; Deputy Minister of Light Industry of U.S.S.R. 1952-53; Head, Consumer Goods Dept., U.S.S.R. Council of Ministers 1953-55; Deputy Chair., State Comm. of U.S.S.R. Council of Ministers on Perspective Planning 1955-57; mem. Staff State Planning Cttee. (Gosplan) 1958-60; Deputy Chair. Vladimir Econ. Council 1958-59; Deputy Chair. All Russian Econ. Council 1960-62; Chair. State Cttee. for Light Industry of U.S.S.R. State Planning Cttee. 1962-

65; Minister of Light Industry 1965-; mem. CPSU 1942-; Cand. mem. Cen. Cttee. CPSU 1966-76, mem. 1976-; Deputy to U.S.S.R. Supreme Soviet 1966-; Order of Lenin (twice) and other decorations. *Address:* Ministry of Light Industry, 15 Verkhnyaya Krasnoselskaya, Moscow, U.S.S.R.

TARAZI, Salah El Dine, L. EN D., D. EN D.; Syrian diplomatist; b. 1919; ed. Coll. des Frères, Damascus and Faculté Française de Droit, Beirut; Lawyer 1940-47; Lecturer and Asst. Prof. of Law, Damascus Univ. 1946-48; Ministry of Foreign Affairs 1949-50; Chargé d'Affaires, Brussels 1951-53; Alt. Perm. Rep. to UN 1953-56; Sec.-Gen., Ministry of Foreign Affairs 1956-57; Amb. to U.S.S.R. 1957-58; Amb. of U.A.R. to Czechoslovakia 1958-59; Amb. of Syria to People's Repub. of China 1959-61; Perm. Rep. of Syria to UN 1962-64; Amb. to U.S.S.R., concurrently accred. to Finland 1965-70, to Turkey 1970-74; Special Adviser to Minister of Foreign Affairs 1974-76; Judge, Int. Court of Justice Feb. 1976-; Syrian, Belgian and Czech awards. *Publication:* Les Services Publics Libano-Syriens 1946. *Address:* International Court of Justice, Peace Palace, The Hague 2517 KJ, Netherlands.

TARBELL, Dean Stanley, A.B., A.M., PH.D.; American professor of chemistry; b. 19 Oct. 1913, Hancock, New Hampshire; s. of Sanford M. Tarbell and Ethel L. Millikan; m. Ann Tracy 1942; two s. one d.; ed. Thayer High School, Winchester, New Hampshire, and Harvard Univ.; Postdoctoral Fellow Ill. 1937-38; Instructor, rising to Houghton Prof. of Chem. and Chair. of Dept., Univ. of Rochester 1938-67; Distinguished Prof. of Chem., Vanderbilt Univ. 1967-, Branscom Distinguished Prof. 1975-76; R. C. Fuson Lecturer, Nevada 1972; Consultant, U.S. Public Health Service; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Chemical Soc., Chemical Soc. of London; Herty Medallist 1973. *Publications:* About 185 research papers in organic chemistry and history of chemistry 1936-. *Address:* Department of Chemistry, Vanderbilt University, Nashville, Tenn. 37235, U.S.A.

TARDIEU, Jean; French writer; b. 1 Nov. 1903; m. Marie-Laure Tardieu-Blot; one d.; ed. Lycée Condorcet and Univ. de Paris; with Radiodiffusion Télévision Française (O.R.T.F.), Head Drama Section 1944-46, Dir. Club d'essai-centre d'Etudes 1946-60, Dir. France musique O.R.T.F. 1954-64, Admin. Counsellor 1964-74; Chevalier Légion d'honneur; Chevalier Arts et Lettres; Grand Prix de Poésie (Acad. Française) 1972, Prix de la Critique 1976. *Publications:* Accents, le témoin invisible, Figures, Monsieur Monsieur, Un mot pour un autre, La première personne du singulier, Une voix sans personne, Théâtre de chambre, L'espace et la flûte, Poèmes à jouer, De la peinture abstraite, Choix de poèmes, Histoires obscures, Il était une fois, deux fois, trois fois (children's book), Pages d'écriture, La fleuve caché, Les portes de toile, La part de l'ombre, Scripts, Formeries, Obscurité du jour; translations of German poems and plays (Goethe, Hölderlin). *Address:* 72 boulevard Arago, 75013 Paris, France.

TARIKI, Abdallah; Saudi Arabian oil executive; b. 19 March 1919; s. of Houmoud and Lolwa Tariki; m. 1st Eleanore Nicholas 1948, 2nd Maha Jumblatt 1969; two c.; ed. Univs. of Cairo and Texas; studied at Univ. of Tex. and worked as trainee with Texaco Inc. in W. Tex. and Calif. 1945-49; Dir. Oil Supervision Office, Eastern Province, Saudi Arabia (under Ministry of Finance) 1949-55; Dir.-Gen. of Oil and Mineral Affairs (Saudi Arabia) 1955-60; Minister of Oil and Mineral Resources 1960; Dir. Arabian American Oil Co. 1959-62; Leader Saudi Arabian del. at Arab Oil Congresses 1959, 1960; Independent Petroleum Consultant 1962-; Chair. Arab Petroleum Consultants; co-founder of OPEC; publisher of monthly petroleum magazine Naft El-Arab; adviser to Algerian, Libyan, Emirates (Abu Dhabi) and Kuwait governments on oil matters. *Leisure interest:* breeding Arab horses. *Address:* KAC Building, Floor 10, Apt. 3, Al-Sharie Al-Hilali, Kuwait (Office); P.O. Box 22699, Safat, Kuwait (Home). *Telephone:* 415860, 412561 (Office); 443466 (Home).

TARJANNE, Toivo, M.A., LL.M.; Finnish jurist; b. 8 Feb. 1893, Helsinki; s. of Onni Tarjanne and Josefina Veijola; m. Eeva Lundelin 1929; two d.; ed. Helsinki Univ.; Sec. Ministry of Commerce and Industry 1931-32, to Chancellor of Justice 1932-42; Judge, Supreme Administrative Court 1943; Gov. of Province of Vasa 1943-44; Chancellor of Justice 1944-50; Pres. Supreme Court and Chair. High Court of Impeachment 1950-63; Chancellor, Order of Finnish White Rose and Order of Finnish Lion 1963-73. *Address:* Pohjoiskaari 40, 00200 Helsinki 20, Finland. *Telephone:* Helsinki 67-5160.

TARKOVSKY, Andrey Arsenyevich; Soviet film director and scriptwriter; b. 4 April 1932, Laovrazhe, Ivanova District; s. of Arseniy Aleksandrovich and Maria Ivanovna (Vishnyakova) Tarkovsky; m. 1st Trina Raush, one s.; m. 2nd Larissa Pavlovna Tegorkina 1970, one s.; ed. All-Union State Cinema Inst.; Film Dir. Mosfilm Studios, Moscow 1960-; Lecturer High School of Film Dirs. and Scriptwriters, Moscow; mem. and mem. Bd. Filmmakers' Assn. of U.S.S.R.; mem. Presidium, Soviet Peace Cttee.; awards include Venice Film Festival Award 1962, San Francisco Film Festival Prize (for best direction), Acapulco Film Festival. *Films include:* Roller and Violin (scriptwriter, dir.) 1960, Ivan's Childhood (dir.) 1962, Andrei Rublev (scriptwriter, dir.) 1969, Solaris (dir.) 1971, The Mirror (dir.) 1975. *Address:* 1 Mosfilmovskaya, Moscow (Office); 108 ap 2-5 Oslovo-Davidovsky, Moscow, U.S.S.R. (Home).

TARSKI, Alfred, PH.D.; American (b. Polish) professor of mathematics; b. 14 Jan. 1902, Warsaw; s. of Ignace and Rose (Prussak) Tarski; m. Maria Josephine Witkowski 1929; one s. one d.; ed. Univ. of Warsaw; Instructor Polish Pedagogical Inst., Warsaw 1922-25; Prof. Żeromski's Lycée, Warsaw 1925-39; Docent and Adjoint Prof. Univ. of Warsaw 1925-39; Research Assoc. Harvard Univ. 1939-41; Visiting Prof. Coll. of City of New York 1940-41; mem. Inst. for Advanced Study, Princeton 1941-42; Lecturer, Univ. of Calif., Berkeley 1942-45, Assoc. Prof. 1945-46, Prof. of Mathematics 1946-68, Emer. 1968-; Lecturer, Institut Henri Poincaré, Sorbonne, Paris 1955; Visiting Prof. Nat. Univ. of Mexico 1957; Research Prof. Miller Inst. for Basic Research in Science 1958-60; Visiting Flint Prof. of Philosophy, Univ. of Calif., Los Angeles 1967; Shearman Memorial Lecturer, Univ. Coll., London 1950, 1966; Visiting Prof. Catholic Univ. of Chile 1974-75; mem. U.S. Nat. Acad. of Sciences; Corresp. Fellow British Acad.; Foreign mem. Royal Netherlands Acad. of Sciences and Letters; fmr. corresp. mem. Polish Acad. of Art and Science; Hon. mem. Dutch Mathematical Soc.; Past Pres. Assen. for Symbolic Logic, Int. Union for History and Philosophy of Science; Past Chair. U.S. Nat. Cttee. Int. Union for History and Philosophy of Science; Hon. D.Sc., (Catholic Univ. of Chile) 1975, Dr. h.c. (Marseilles 1977). *Publications:* The Concept of Truth in Languages of Deductive Sciences 1933, Geometry (with Z. Chwiałkowski and W. Schayer) 1935, Introduction to Logic and the Methodology of Deductive Sciences 1936, Direct Decompositions of Finite Algebraic Systems (with B. Jónsson) 1947. A Decision Method for Elementary Algebra and Geometry 1948, Cardinal Algebras 1949, Undecidable Theories (with A. Mostowski and R. M. Robinson) 1953, Logic, Semantics, Metamathematics 1956, Ordinal Algebras 1956, The Completeness of Elementary Algebra and Geometry 1967, Cylindric Algebras, Part I (with L. Henkin and J. D. Monk) 1971, La Concepción Semántica de la Verdad y los Fundamentos de la Semántica 1972, and over 100 articles in various branches of logic and mathematics. *Leisure interests:* visual art and poetry, gardening, reading, genetics, primatology and prehistory of man. *Address:* Department of Mathematics, University of California, Berkeley, Calif. 94720 (Office); 462 Michigan Avenue, Berkeley, Calif. 94707, U.S.A. (Home). *Telephone:* 415-624-2065 (Office); 415-524-2094 (Home).

TARTAKOWER, Arie, DR. IUR., D.RER.POL.; Israeli (b. Polish) university professor; b. 24 Sept. 1897, Brody; s. of Nathan Tartakower and Sophia Fichman; m. Malwina Schickler; one s. (died 1944); ed. Univ. of Vienna; Co-founder Zionist Labour Movement and Chair. Zionist Labour Party, Poland 1922-39; Lecturer, Inst. of Jewish Sciences, Warsaw 1932-39; Dir. Dept. of Relief and Rehabilitation of World Jewish Congress (U.S.A.) 1939-46; fmr. Prof., Lecturer and Head, Dept. of Sociology of the Jews, Hebrew Univ., Jerusalem; Hon. Vice-Pres. Israel Exec., World Jewish Congress; mem. Gen. Council World Zionist Org.; mem. World Secr., Zionist Labour Movement; Chair. World Assen. for Hebrew Language and Culture; Co-founder and fmr. Pres. Israel Assen. for UN. *Publications include:* History of the Jewish Labour Movement, Jewish Emigration and Jewish Policy of Migration, The Jewish Refugee, Jewish Wanderings in the World, The Wandering Man, The Jewish Society, The Israeli Society, History of Colonization, Jewish Colonization in the Diaspora, History of Jewish Nationalism, The Tribes of Israel (3 vols.), The Role of Revolution in Jewish History (Vol. I) 1974. *Address:* 1 Ben Yehuda Road, Jerusalem (Office); 45a King George Street, Jerusalem, Israel (Home). *Telephone:* 222889 (Office); 224081 (Home).

TASCA, Henry J., M.B.A., PH.D., LL.D.; retd. American diplomatist; b. 23 Aug. 1912, Providence, R.I.; m. Lina M. Federici; four c.; ed. Temple Univ., Univ. of Pennsylvania and London School of Economics and Political Science; Econ. Analyst, Div. of Trade Agreements, Dept. of State 1937-38; Asst. Dir. of Trade Regulation and Commercial Policy Project 1939-40; Econ. Adviser to Nat. Defense Comm. 1940; U.S. Treasury Dept. Rep. at Embassy in Rome 1945-48; Alt. U.S. Exec. Dir. IMF; concerned with Marshall Plan operations as U.S. mem. in Europe, Deputy to Amb. W. Harriman to "Three Wise Men" NATO group, later apptd. Deputy U.S. Special Rep. in Europe; apptd. by Pres. Eisenhower as Special Rep. for

Korean Econ. Affairs 1953; Dir. of U.S. Operations Mission in Italy; Econ. Counsellor U.S. Embassy at Bonn 1956-60; Deputy Asst. Sec. of State for African Affairs 1960-65; Amb. to Morocco 1965-69, to Greece 1969-74; war service in U.S. Navy ■ Lieut.-Commdr. 1940-45; currently int. business executive Parsons Brinckerhoff, etc.; Hon. LL.D. (Temple Univ.); Medal of Freedom 1946; Distinguished Service Award (Korea); Grand Cordon of Ouissam Alaouite (Morocco); Order of Merit, Cavaliere di Grand Croce. *Address:* c/o Dept. of State, 2201 C Street, N.W., Washington, D.C., U.S.A.

TASCHEREAU, Pierre, Q.C., LL.L.; Canadian railway administrator; b. 13 Jan. 1920, Quebec, P.Q.; m. Yseult Beaudry 1945; two s. one d.; ed. Garnier Coll., Quebec, Laval Univ., Quebec, Univ. of Western Ontario; Attorney, Canadian Nat. Railways, Montreal, P.Q. 1946-63, Vice-Pres. Law 1971-72, Exec. Vice-Pres., Corporate Affairs 1972-74, Chair. Board 1974-78; Senior mem. Geoffrion & Prud'homme, barristers and solicitors, Montreal P.Q. 1963-67; Vice-Pres. Canadian Transport Comm., Ottawa, Ont. 1967-71. *Address:* 3788 Grey Avenue, Montreal, P.Q., H4A 3N7, Canada (Home).

TASHIRO, Kikuo; Japanese newspaper executive; b. 22 April 1917; ed. Waseda Univ.; joined Asahi Shimbun 1940; City Ed. 1959; Man. Ed. 1966; Exec. Dir. in charge of Editorial Affairs 1969-. *Address:* Asahi Shimbun, 6-1, 2-chome, Yuraku-cho, Chiyoda-ku, Tokyo, Japan.

TASWELL, Harold Langmead Taylor, M.COM.; South African fmr. diplomatist and business consultant; b. 14 Feb. 1910, Cape Town; s. of Stephen Taswell and Helen Simkins; m. Vera Blytt 1940; three d.; ed. Christian Brothers Coll., Pretoria, and Univ. of Cape Town; Dept. of External Affairs 1937-, Berlin 1937-39, London 1939, The Hague 1940, New York 1940-46; Consul, Elisabethville 1946-49; Int. Trade and Econ. Section, Dept. of External Affairs, Pretoria 1949-51; First Sec., Washington 1951-56; Consul-Gen., Luanda, Angola 1956-59; High Commr. of S. Africa in Fed. of Rhodesia and Nyasaland 1959-61, Accredited Diplomatic Rep. 1961-63, Accredited Diplomatic Rep. in S. Rhodesia 1963-64; Head, Africa Div., Dept. of Foreign Affairs, Pretoria 1964; Amb. to U.S.A. 1965-71, to UN Geneva 1971-75 (retd.); mem. Council Africa Inst. of South Africa. *Leisure interest:* walking. *Address:* 39 Simonstown Road, 7975 Fish Hoek, South Africa.

TATA, Jehangir Ratanji Dadabhoy; Indian industrialist; b. 29 July 1904; joined Tata Sons Ltd. 1926; Chair. Tata Sons Ltd., Tata Industries Ltd., The Tata Iron and Steel Co. Ltd., The Tata Oil Mills Co. Ltd., Tata Chemicals Ltd., Tata Ltd., London, Tata Inc., New York, Tata Inst. of Fundamental Research, Indian Hotels Co. Ltd., Sir Dorabji Tata Trust, Lady Tata Memorial Trust, J. N. Tata Endowment Nat. Centre for the Performing Arts, Homi Bhabha Fellowships Council, Air-India 1953-78, Gov. Board Family Planning Foundation; Dir. Tata Engineering and Locomotive Co. Ltd., Investment Corpn. of India Ltd.; mem. Indian Airlines; Board of Trade, Govt. of India; hon. patron mem. Indo-French Chamber of Commerce and Industry; Trustee, Ganhi Smarak Nidhi, Kasturba Gandhi Nat. Fd; first pilot to qualify in India holding ■ private licence 1929; solo flight India-England 1930; founded Tata Airlines 1932; Hon. Air Vice-Marshal Indian Air Force; Officier Légion d'honneur 1954, Hon. D.Sc. (Allahabad) 1947. *Address:* Bombay House, Homi Mody Street, Bombay 400 023 (Office); The Cairn, Altamount Road, Bombay 400 026, India (Home).

TATARKIEWICZ, Władysław, PH.D.; Polish philosopher; b. 3 April 1886, Warsaw; s. of Ksawery Tatarkiewicz and Maria Brzezinska; m. Teresa Potworowska 1919; one s.; ed. Warsaw, Zürich, Paris, Berlin and Marburg Univs.; Prof. of Philosophy, Warsaw Univ. 1915-62, Emer. Prof. 1962-; mem. fmr. Polish Acad. of Learning; mem. Polish Acad. of Sciences, Int. Inst. of Philosophy; Hon. mem. Int. Cttee. of History of Art; mem. Serbian Acad. of Sciences 1972; mem. several other Polish and foreign scientific and learned socs.; Dr. h.c. (Catholic Univ., Lublin) 1976; Commdr. Cross, Order of Polonia Restituta 1938, with Star 1958, State Prize 1966, Officier, Légion d'honneur (France), 1939, Commandeur, Légion d'honneur 1978, Commdr. Order of Phoenix (Greece) 1978, and other decorations. *Publications:* Historia filozofii (History of Philosophy) 1931, English edn.: Nineteenth Century Philosophy 1973, and Twentieth Century Philosophy 1973; Les trois morales d'Aristote 1932, Skupienie i marzenie (Concentration and Dreaming) 1935, O szczęściu (On Happiness) 1948, English edn.: Analysis of Happiness 1975; Dominik Merlini, Historia Estetyki (History of Aesthetics) 1960, Droga do filozofii i inne rozprawy filozoficzne (Way to Philosophy and Other Philosophical Papers) 1971, O doskonatości (On Perfection) 1975, Zapiski do autobiografii (Notes to Autobiography) 1976. *Address:* Ul. Chocimska 35, m. 10, 00-791 Warsaw, Poland. *Telephone:* 42-20-80.

TATAY, Sándor; Hungarian writer; b. 6 May 1910, Bakonytamási; s. of Lajos Tatay and Teréz Varga, m. Maria Takacs 1944; one d.; ed. Sopron, Pécs; Journalist Kelet Népe 1937-. *Publications:* Thunderstorm 1941, The Simeon Family (5 vols.) 1955-59, White Carriage 1960; The House under the Rocks (film) 1958; children's books and short stories. *Leisure interest:* vineyard. *Address:* Gyöngyösi, u. 53, H-1131 Budapest XIII, Hungary. *Telephone:* 409-523.

TATI, Jacques (Jacques Tatischeff); French actor and film director; b. 9 Oct. 1908, Le Pecq; m. Micheline Winter 1944; one s. one d.; formerly music-hall artist; *films directed include:* Gai dimanche 1935, Soigne ton gauche 1936, L'Ecole des facteurs 1947, Jour de fête 1947, Les vacances de Monsieur Hulot 1951, Mon oncle 1958, Tati no. 4 (later called Playtime) 1968, Yes Monsieur Hulot (later called Traffic) 1971, Parade 1974; Scenario Prize, Venice Film Festival 1949 and Grand Prix du Cinéma Français 1950 for Jour de fête, Int. Critics' Prize, Cannes Film Festival and Prix Louis Delluc for Les vacances de Monsieur Hulot 1953; Special Prize, Cannes Film Festival for Mon Oncle 1958; "Oscar" and New York Critics' Award for best foreign film; French Cinema Acad. Grand Prix for Playtime 1968. *Address:* Spectra Films, 12 rue du Château, 92250 La Garenne-Colombes; 9 rue Voltaire, 78100 Saint-Germain-en-Laye, France (Home). *Telephone:* 782-19-97 (Office).

TATON, (André) René, D. ès L.; French historian; b. 4 April 1915, L'Echelle (Ardennes); m. Juliette Battesti 1945; two c.; ed. Faculté des Sciences, Nancy and Paris, Ecole Normale Supérieure de St. Cloud; Research Asst., Nat. Centre of Scientific Research 1946, rising to Research Dir. 1964-; Prof. Ecole pratique des Hautes Etudes 1964-, Dir. Centre for Research into History of Science, Ecole des Hautes Etudes 1964-; mem. Acad. Int. d'Histoire des Sciences; Sec.-Gen. of Int. Union of the History and Philosophy of Sciences 1955-71, Vice-Pres. 1972-74, Pres. 1975; Lauréat Académie des Sciences and George Sarton Medal 1975. *Publications:* L'oeuvre scientifique de Gaspard Monge 1951, L'oeuvre mathématique de G. Desargues 1951, Causalités et accidents de la découverte scientifique 1958 (translated into English, Spanish, Japanese), ed. Histoire générale des sciences (4 vols.) (translated into English, Italian, Spanish, Portuguese), numerous articles on the history of mathematics and the history of sciences in general. *Address:* 12 rue Colbert 75002 Paris (Office); 64 rue Gay-Lussac, 75005 Paris, France (Home). *Telephone:* 742-76-59 (Office).

TÁTRAI, Vilmos; Hungarian violinist; b. 7 Oct. 1912, Kispest; s. of Vilmos Tátrai and Maria Obernauer; m. Zsuzsa Kreismann 1938; one s. one d.; ed. National Conservatoire, Budapest; Teacher 1946-53; First Violinist, Budapest Symphony Orchestra 1933; mem. Radio Orchestra 1938; Leading Violinist Metropolitan State Concert Orchestra 1940-; Founder-Leader Tátrai String Quartet 1946, and led it on tours throughout Europe 1952-; Founder-Leader Hungarian Chamber Orchestra 1957-; Prof. of Music, Budapest Acad. of Music 1965-; First prize, Béla Bartók Competition 1948, Liszt Prize 1952, 1972, Kossuth Prize 1958, Eminent Artist of Hungarian People's Republic, Labour Order of Merit golden degree. *Leisure interests:* walking, photography. *Address:* Raoul Wallenberg u. 4; Zenemüvészeti Föiskola, Liszt Ferenc tér. 2, H-1136 Budapest XIII, Hungary. *Telephone:* 110-529.

TAUBE, Henry, B.S., M.S., PH.D.; American professor of chemistry; b. 30 Nov. 1915, Saskatchewan, Canada; s. of Samuel Taube and Albertina Tiledetzki Taube; m. Mary Alice (née Wesche) 1952; two s. two d.; ed. Univs. of Saskatchewan and California (Berkeley); Instructor Univ. of Calif. at Berkeley 1940-41; Instructor-Asst. Prof. Cornell Univ. 1941-46; Asst. Prof., Prof. Univ. of Chicago 1946-61; Prof. of Chem., Stanford Univ., Calif. 1962-; Guggenheim Fellow 1949-55; mem. Nat. Acad. of Sciences; American Chem. Soc. Awards 1955, 1960, Chandler Medal of Columbia Univ., Kirkwood Award, Harrison Howe Award, Rochester Section, ACS, 1960; Nichols Medal, New York Section, ACS 1971; Willard Gibbs Medal, Chicago Section, ACS 1971; F. P. Dwyer Medal, Univ. of N.S.W. 1973-; Nat. Medal of Science 1977; Baker Lecture, Cornell Univ. 1965, Priestley Lecture, Pa. State 1976. *Publications:* Approx 200 scientific articles in chemical journals. *Leisure interests:* record-collecting, gardening. *Address:* Department of Chemistry, Stanford University, Stanford, Calif. 94305 (Office); 441 Gerona Road, Stanford, Calif. 94305, U.S.A. (Home). *Telephone:* (415) 497-1736, 328-2759.

TAUBMAN, (Hyman) Howard, A.B.; American journalist, author and critic; b. 4 July 1907; ed. Cornell Univ. Journalist 1929-; with New York Times 1930-, Music Critic 1956-60, Drama Critic 1960-65, Critic-at-Large 1965-72; Hon. Mus.D. (Cornell Univ. and Oberlin Coll.); mem. Philadelphia Music Acad. 1959-. *Publications:* Opera Front and Back 1938, Music ■■ a Profession 1939, Music on My Beat 1943, The Maestro, The Life of Arturo Toscanini

1951, How to Build a Record Library 1953, How to Bring up Your Child to Enjoy Music 1958, The Making of the American Theatre 1965.

TAUFA'AHAU Tupou IV, G.C.V.O., G.C.M.G., K.B.E., B.A., LL.B.; H.M. the King of Tonga; b. 4 July 1918; eldest son of the late Queen Salote Tupou III of Tonga and the late Hon. Uiliami Tungi, C.B.E., Premier of Tonga; brother of Prince Fatafehi Tu'ipelahake (*q.v.*); ed. Newington Coll. and Sydney Univ., N.S.W.; married H.R.H. Princess Mata'aho 1947; four children, of whom the eldest, Crown Prince Tupoutoa, is heir to the throne. Premier of Tonga 1949-65; King of Tonga 1965-; Chancellor of the University of the South Pacific 1970-73; Hon. LL.D. *Address:* The Palace, Nuku'alofa, Tonga.

TAUS, Josef, LL.D.; Austrian banker and politician; b. 8 Feb. 1933, Vienna; s. of Josef Taus and G. Schinko; m. Martha Loibl 1960; ed. Univ. of Vienna; Journalist; law practice; with Austrian Inst. of Econ. Research; Sec. and Head of Econ. Div., Girozentrale und Bank der Österreichischen Sparkassen AG 1958, mem. Man. Board 1967-68, Chair. and Man. Dir. 1968-75; fmr. Man. Sparinvest-Kapitalanlage G.m.b.H.; mem. Parl.; State Sec. Fed. Ministry of Communications and Nationalized Enterprises 1966-67; Fed. Chair. Austrian People's Party (ÖVP) Aug. 1975-. *Address:* Österreichische Volkspartei, Kärntnerstrasse 51, 1010 Vienna (Office); Kahlenberger Strasse 44/2/2, A-1190 Vienna, Austria (Home).

TAVERNER, Sonia; Canadian ballerina; b. 18 May 1936, Byfleet, Surrey; d. of H. J. Taverner; ed. Elmhurst Ballet School, and Royal Ballet School, London, and ballet school in New York; joined Royal Ballet 1955, toured U.S.A. and Canada; joined Royal Winnipeg Ballet 1956, leading dancer 1957, ballerina 1962-66; appeared with Royal Winnipeg Ballet, Commonwealth Arts Festival, London 1964; joined "Les Grands Ballets Canadiens" Spring 1966, as principal dancer; appeared as guest artist with the Boston Ballet Co., in Swan Lake 1967; Guest teacher Les Grands Ballets Canadiens Summer School 1970; principal artist with The Pennsylvania Ballet 1971-73, now Head of Ballet Div.; Producer own concert variations 1977; guest artist with Toronto, Winnipeg and Vancouver Symphony Orchestras; has toured extensively over North America, Jamaica and U.K. mem. Royal Acad. of Dancing, Actors Equity Assn. American Guild of Musical Artists. *Leisure interests:* cooking, books. *Address:* 9939 115th Street, Edmonton, Alberta, Canada.

TAVIANI, Paolo Emilio; Italian politician; b. 6 Nov. 1912; ed. Univ. of Genoa; Prof. History of Economic Theory at Genoa Univ.; leader Partisan War 1943-45; organizer of Christian Democratic Party (in Genoa area) 1943; mem. Constituent Assembly 1946-48; mem. Parl. 1948-; Deputy Sec. Christian Democratic Party 1946-49, Sec. 1949-50; Ed. Civitas 1950-; Italian Rep. to Schuman Plan Conf. 1951 and to later E.D.C. Confs.; Under-Sec. for Foreign Affairs 1951-53; Minister of Defence 1953-58, of Finance 1959-60, of Treasury 1960-62, of Interior 1962-68, for interventions in Southern Italy 1968-73, of the Interior 1973-74. *Publications include:* Social Reformers of the Italian Risorgimento 1940, Social Prospects 1945, Ownership 1946, The Schuman Plan 1952, Atlantic Solidarity and European Community 1957, Defence of Peace 1958, Christian Principles and Democratic Systems 1965, The Concept of Utility in Economic Theory Vol. I 1968, Vol. II 1970, Utility, Economics and Morals 1970, The Problem of Development and the "Cassa del Mezzogiorno" Experience 1972, Christopher Columbus, the Genesis of the Great Discovery 1974. *Address:* Via di Fontanegh 33, Bavari, Genoa, Italy.

TAVOLARO, Silvio, D.IUR.; Italian jurist; b. 28 Oct. 1900; ed. Univ. degli Studi, Rome; Judge 1922; Justice of Court of Appeals 1941-47; Justice of Supreme Court of Italy 1947-55, Presiding Judge 1955-58; Chief Justice of Court of Appeals, Rome 1958-62; Chief Justice of Supreme Court 1962-70; fmr. Perm. mem. Supreme Council of Judiciary; mem. Cttee. on Contenzioso Diplomatico, Ministry of Foreign Affairs; mem. Acad. of Biological and Moral Sciences; Hon. mem. Roman Soc. of Legal Medicine; mem. Exec. Cttee. World Assn. of Judges; Chair. Assn. for Cultural Exchange of Italian and German Jurists; Knight Grand Cross Order of Malta; Medal for Social Redemption; Sacred Treasure of Japan (first class); Grosses Bundesverdienstkreuz (Fed. Repub. of Germany). *Publications:* Essays and articles on constitutional law, family law and the judiciary. *Address:* 38 Via Casperia, Rome, Italy.

TAVOULAREAS, William Peter; American oil executive; b. 9 Nov. 1919, Brooklyn; s. of Peter W. and Mary (née Palise) Tavoulareas; m. Adele Maciejewska 1941; two s. one d.; ed. St. John's Univ., Jamaica; joined Mobil Oil Corpn. 1947, Man. Middle East Accounting Dept. 1957, Man. Corp. Planning and Analysis Dept. 1959; Vice-Pres. for Plans and Programmes, Mobil International Oil Co. 1961; Vice-Pres. Mobil 1963; Dir., mem. Exec. Cttee. and Senior Vice-Pres. 1965; Pres. North American Div. 1967; Pres. Mobil Oil Corpn. Sept. 1969; Dir., Pres. and Vice-Chair. Exec. Cttee., Mobil Corpn. 1976-, Hon., D.C.S. and Young Businessman of the Year Award (St. John's Univ.). *Leisure interests:* swimming, boating, reading. *Address:* 150 East 42nd Street, New York, N.Y. 10017 (Office); 171 Harbor Road, Sands Point, N.W. 11050, U.S.A. (Home). *Telephone:* (212) 883-3616 (Office); (516) 944-8641 (Home).

TAX, Sol, PH.D., PH.B.; American university professor; b. 30 Oct. 1907, Chicago, Ill.; s. of Morris Paul Tax and Kate (Hanowitz) Tax; m. Gertrude Jospe Katz 1933; two d.; ed. Univs. of Wisconsin and Chicago; mem. Logan Museum North Africa Expedition 1930; field research, Apache Indians 1931, Fox Indians 1932-34; Investigator, and later Ethnologist, Carnegie Inst. 1934-48; field research in Guatemala and Chiapas (Mexico) 1934-43; Research Assoc. in Anthropology, Univ. of Chicago 1940-44, Assoc. Prof. 1944-48, Prof. of Anthropology 1948-; Assoc. Dean Social Sciences Div. 1948-53, Chair. Anthropology Dept. 1955-58; Dean Univ. Extension 1963-68; Assoc. Ed. American Anthropologist 1948-52, Ed. 1953-56; Ed. Current Anthropology 1957-74, Viking Fund Publications in Anthropology 1959-68; Gen Ed. World Anthropology, Proceedings IX Int. Congress of Anthropological and Ethnological Sciences; Fellow American Anthropological Assn. (Pres. 1958-59), Center for Advanced Study in the Behavioral Sciences 1969-70; Man-Nature Project in Chiapas, Mexico 1956-59; Chair. Cttee. on Darwin Centenary (1859-1959) 1956-59; Chair. Cttee. on Darwin Centenary (1859-1959) 1956-59; U.S. Nat. Comm. for UNESCO 1959-65, Exec. Cttee 1963-65; Consultant, U.S. Office of Educ. 1965-70; Special Adviser, Smithsonian Inst. 1965-, and Dir. of its Center for Study of Man 1968-76; mem. Board of Advisers, Council on Int. Communication 1966-; Pres. Int. Union of Anthropological and Ethnological Sciences 1968-73; Dir. Council, Study of Mankind 1963-; Hon. Fellow Royal Anthropological Inst., Slovakian Anthropological Soc. of Slovak Acad. of Sciences, Chilean Anthropological Soc., Ethnological Soc. of Hungary; D. Hum. Litt. (Wis. Univ.) 1969, Hon. LL.D. (Wilmington College) 1974; Hon. D.Sc. (Univ. del Valle de Guatemala) 1974, Beloit Coll. 1975; Viking Medallist 1961; Medal of Govt. of Czechoslovakia 1969; Bronislaw Malinowski Award of Soc. for Applied Anthropology 1977; Distinguished Service Award of the American Anthropological Assn. 1977. *Publications:* Heritage of Conquest: The Ethnology of Middle America 1952, Penny Capitalism, A Guatemalan Indian Economy 1953, 1963; Editor for 29th Int. Congress of Americanists Proceedings 1949-52, Civilizations of Ancient America 1951, Acculturation in the Americas 1952, Indian Tribes of Aboriginal America 1952, Evolution After Darwin (3 vols.) 1960, Anthropology Today—Selections 1962, Horizons of Anthropology 1963, The Draft: A Handbook of Facts and Alternatives 1967, Editor: The People Versus the System 1968. *Address:* 1700 East 56th Street, Chicago, Ill. 60637, U.S.A. *Telephone:* DO3-0990.

TAYLOR, Alan John Percivale, M.A.; British historian; b. 25 March 1906, Southport; s. of Percy Lees Taylor and Constance Thompson; four s. two d.; ed. Oriel Coll. Oxford; Rockefeller Fellow in Social Sciences 1929-30; Lecturer in History, Univ. of Manchester 1930-38; Fellow of Magdalen Coll., Oxford; fmr. Univ. Lecturer in Int. History. *Publications:* The Italian Problem in European Diplomacy 1847-49 1934, Germany's First Bid for Colonies 1938, The Course of German History 1945, The Habsburg Monarchy 1809-1918 1948, From Napoleon to Stalin 1950, Rumours of Wars 1952, The Struggle for Mastery in Europe 1848-1914 1954, Bismarck 1955, Englishmen and Others 1956, The Trouble-Makers 1957, The Russian Revolution of 1917 (TV lectures) 1958, The Origins of the Second World War 1961, The First World War 1963, Politics in Wartime 1964, English History 1914-1945 1965, From Sarajevo to Potsdam 1966, Europe: Grandeur and Decline 1967, War by Timetable 1969, Churchill: Four Faces and the Man (with others) 1969, Beaverbrook 1972, The Second World War 1975, Essays in English History 1976, The Last of Old Europe 1976, The Russian War 1941-45 1978, The War Lords 1978, How Wars Begin 1979. *Address:* 121 Fleet Street, London, E.C.4; 32 Twisden Road, London NW5 1LD, England. *Telephone:* 01-353 8000, Ext. 3460.

TAYLOR, Arthur Robert, M.A.; American business executive; b. 6 July 1935, Elizabeth, N.J.; s. of Arthur Earl Taylor and Marion Hilda Scott; m. Marion McFarland 1959; three d.; ed. Brown Univ.; Asst. Dir. of Admissions, Brown Univ. 1957-60; Asst. Vice-Pres. The First Boston Corpn. 1964-66, Vice-Pres. 1966-70, Dir. 1969-70; Vice-Pres. (Finance), Int. Paper Co. 1970-71, Exec. Vice-Pres. 1971-72, Dir. 1971-72; Pres. and Dir. CBS Inc. 1972-76; mem. Council on Foreign Relations; Trustee, Bucknell Univ., Brown Univ., Asia Soc. and Japan Soc. *Publications:* Article in Harvard Review of Business

History 1971, chapter in The Other Side of Profit 1975. *Address:* 30 Rockefeller Plaza Suite, 4345 New York, N.Y. 10020, U.S.A. (Office).

TAYLOR, Edward Plunket, C.M.G., B.SC., LL.D.; Canadian industrialist; b. 29 Jan. 1901, Ottawa; s. of Lt.-Col. P. B. Taylor and Florence Magee; m. Winifred Thornton Duguid 1927; one s. two d.; ed. Ashbury Coll., Ottawa Collegiate Inst., and McGill Univ., Montreal; Pres. Lyford Cay Co. Ltd., Windfields Farm Ltd.; Chair. New Providence Devt. Co., The Royal Bank of Canada Int. Ltd., Int. Housing (Cayman) Ltd., Int. Housing Ltd.; Joint Dir.-Gen. Munitions Production 1940; Exec. Asst. to Ministry of Munitions and Supply 1941; Pres. War Supplies Ltd., Washington, D.C. 1941; Pres. and Vice-Chair. British Supply Council in North America Sept. 1941; Dir.-Gen. British Ministry of Supply Mission Feb. 1942; Canadian Deputy mem. on Combined Production and Resources Board Nov. 1942; Canadian Chair. Joint War Aid Cttee. U.S. Canada Sept. 1943; Chair. and Chief Steward Jockey Club of Canada; Hon. Chair. Ontario Jockey Club. *Address:* The Cay House, Lyford Cay, Nassau, Bahamas.

TAYLOR, Elizabeth; British film actress; b. 27 Feb. 1932; m. 1st Conrad Nicholas Hilton, Jr. 1950 (divorced); m. 2nd Michael Wilding 1952 (divorced), two s.; m. 3rd Mike Todd 1957 (died 1958), one d.; m. 4th Eddie Fisher 1959 (divorced); m. 5th Richard Burton (*q.v.*) 1964 (divorced 1974, remarried 1975, divorced 1976), one adopted d.; m. 7th Senator John Warner (*q.v.*) 1976; ed. Byron House, Hawthorne School, and Metro-Goldwyn-Mayer School; Acad. Award (Oscar) for Best Actress for Butterfield 8 1960, for Who's Afraid of Virginia Woolf? 1967; Silver Bear Award for Hammersmith is Out, Berlin 1972. *Films include:* Lassie Come Home 1943, Jane Eyre 1943, National Velvet 1944, The Rich Full Life 1944, Courage of Lassie 1945, A Date With Judy 1948, Little Women 1949, Father of the Bride 1950, A Place in the Sun 1951, Ivanhoe 1952, The Girl Who Had Everything 1953, Elephant Walk 1954, Beau Brummel 1954, The Last Time I Saw Paris 1955, Giant 1956, Raintree Country 1957, Cat on a Hot Tin Roof 1958, Suddenly Last Summer 1959, Butterfield 8 1960, Cleopatra 1962, The VIPs 1963, The Sandpiper 1965, Who's Afraid of Virginia Woolf? 1966, The Taming of the Shrew 1967, Doctor Faustus 1967, The Comedians 1967, Reflections in a Golden Eye 1967, Boom 1968, Secret Ceremony 1968, The Only Game in Town 1969, Under Milk Wood 1971, Zee & Co. 1971, Hammersmith is Out 1972, Night Watch 1973, Ash Wednesday 1974, Identikit 1974, Blue Bird 1975, A Little Night Music 1976. *Address:* c/o Major D. Neville-Willing, 85 Kinnerton Street, London, S.W.1, England. *Telephone:* 01-235 4640.

TAYLOR, Harold McCarter, C.B.E., T.D., M.SC.(NZ), M.A., PH.D.; British retd. university official; b. 13 May 1907, Dunedin, New Zealand; s. of James and Louisa (née McCarter) Taylor; m. 1st Joan Sills 1933 (died 1965), 2nd Judith Samuel 1966; two s. two d.; ed. Otago Boys' High School, Dunedin, New Zealand, Univ. of Otago and Clare Coll., Cambridge; Univ. Lecturer in Mathematics, Univ. of Cambridge 1933-45; Treas. Univ. of Cambridge 1945-53, Sec.-Gen. of the Faculties 1953-61; Vice-Chancellor Univ. of Keele 1961-67, retd.; Rede Lecturer, Univ. of Cambridge 1966; Fellow, Soc. of Antiquaries 1961, Vice-Pres. 1974-77; mem. Royal Comm. on Historical Monuments 1972-78; Lt.-Col. Royal Artillery 1939-45; Smith's Prize, Univ. of Cambridge 1932, John Henry Lefroy Medal, Royal Artillery 1946, Alice Davis Hitchcock Medallion, Soc. of Architectural Historians 1965. *Publications:* Anglo-Saxon Architecture Vols. I and II (with Joan Taylor) 1965, Vol. III 1978, Why Should We Study The Anglo-Saxons? 1966, numerous archaeological articles in nat. journals. *Leisure interests:* ski-mountaineering, history of architecture. *Address:* 192 Huntingdon Road, Cambridge, CB3 0LB, England. *Telephone:* Cambridge 76324.

TAYLOR, Henry J., D.LITT.; American diplomatist, author, journalist, economist; b. 2 Sept. 1902; ed. Lawrenceville School, N.J., and Univ. of Virginia; entered newspaper profession 1918; war correspondent for Scripps-Howard Newspaper Syndicate in Second World War, accred. to all theatres of war; Amb. to Switzerland 1957-61; columnist United Features Syndicate 1961-; Chair. Board. Silicone Paper Company of America, Inc.; Dir. Waldorf Astoria Hotel, The Pittston Co., Douglas MacArthur Memorial (Norfolk), American-Scottish Soc., Trustee Thomas Jefferson Memorial Assen. ("Montecello"). *Publications:* It Must Be a Long War 1939, Germany's Economy of Coercion 1940, Time Runs Out 1942, Men in Motion 1943, Men and Power 1946, An American Speaks His Mind 1957, The Big Man (novel) 1964, Men and Moments 1966. *Address:* 150 East 69th Street, New York, N.Y. 10021, U.S.A.

TAYLOR, Hobart, Jr.; American lawyer and government official; b. 17 Dec. 1920, Texarkana, Texas; s. of Hobart Taylor, Sr. and Charlotte Wallace; m. Lynette Dobbins 1951; two s.; ed. Prairie View State Coll., Texas, Howard Univ., and Univ. of Michigan; admitted to Michigan Bar 1944; Research Asst. Mich. Supreme Court 1944-45; Private Law Practice, Detroit 1945-48; Asst. Prosecuting Attorney, Wayne County 1949-50, Corpn. Counsel 1951-61; Senior Partner Taylor, Patrick, Bailer, Wexler and Brookins (law firm) 1958-61; Special Counsel, Pres. of U.S.'s Cttee. on Equal Employment Opportunity 1961-62, Exec. Vice-Chair. 1962-65; Special Asst. to Vice-Pres. Lyndon B. Johnson 1961-63; Assoc. Counsel to Pres. Johnson 1964-65; Dir. Export-Import Bank 1965-68, Great Atlantic and Pacific Tea Co. 1971-, Standard Oil Co. of Ohio 1971-, Westinghouse Electric Corpn. 1971-, Aetna Life & Casualty Co. 1973-, Eastern Airlines Inc. 1977-; mem. Board of Govs., American Nat. Red Cross; Partner Dawson, Riddell, Taylor, Davis and Holroyd 1968-; many hon. degrees and awards, including Commdr. Légion d'honneur & Repub. of Ivory Coast. *Address:* 723 Washington Building, N.W., Washington, D.C. 20005 (Office); 2315 S Street, N.W., Washington, D.C. 20008 (Home).

TAYLOR, Sir James, Kt., M.B.E., D.SC., PH.D., F.R.I.C., H.F.I.MIN.E., F.R.S.A.; British industrial consultant; b. 16 Aug. 1902, Sunderland; s. of James and Alice Taylor; m. Margaret Lennox Stewart; two s. one d.; ed. Bede Coll., Sunderland, Rutherford Coll., Newcastle-upon-Tyne, Univs. of Durham, Utrecht, Cambridge and the Sorbonne; joined Nobel Div., I.C.I. Ltd. 1928, Research Dir. 1946, Joint Man. Dir. 1951, Dir. 1952-64; Chair. Yorkshire Imperial Metals Ltd. 1958-64, Imperial Aluminium Co. Ltd. 1959-64, Imperial Metal Industries Ltd. 1962-64, Deputy Chair. Royal Ordnance Factories Board 1959-72 (mem. 1952-72); Pres. Inst. of Physics and Physical Soc. 1966-68; Chair. Fulmer Research Inst. Ltd. 1976-78, Chloride Silent Power Ltd. 1974-; Dir. Oldham International Ltd. 1965-71; Pres. Research and Devt. Soc. 1970-76; Hon. mem. Newcomen Soc. (U.S.A.) 1970; mem. Council of R.S.A. 1964-, Chair. 1969-71, Vice-Pres. 1969-; mem. Court of Brunel Univ. 1967-; Medal of the Soc. of the Chemical Industry 1965, Silver Medal, Royal Soc. of Arts 1969, Silver Medal for Service to the Chemical Soc. 1972; Hon. F.Inst.P. 1972; Hon. D.Sc. (Bradford), Hon. D.C.L. (Newcastle). *Publications include:* On the Sparking Potentials of Electric Discharge Tubes 1927, Detonation in Condensed Explosives 1952, British Coal Mining Explosives 1958, Solid Propellent and Exothermic Compositions 1959, The Modern Chemical Industry in Great Britain 1961, Arts, Crafts and Technology 1969, New Horizons in Research and Development 1971, The Scientific Community 1973, lectures and numerous articles in learned journals. *Leisure interests:* gardening, writing, cooking. *Address:* Culvers, Seale, Nr. Farnham, Surrey, GU10 1JN, England. *Telephone:* Runfold 2210.

TAYLOR, John Russell, M.A.; British writer and professor of cinema studies; b. 19 June 1935, Dover, Kent; s. of Arthur Russell Taylor and Kathleen Mary (née Picker) Taylor; ed. Dover Grammar School, Jesus Coll., Cambridge, Courtauld Inst. of Art; Sub Ed., Times Educ. Supplement 1959-60; Editorial Asst., Times Literary Supplement 1960-62; Film Critic, The Times 1962-73, Art Critic 1978-; Prof., Div. of Cinema, Univ. of Southern California, U.S.A. 1972-78. *Publications:* Anger and After 1962, Anatomy of a Television Play 1962, Cinema Eye, Cinema Ear 1964, Penguin Dictionary of the Theatre 1966, The Art Nouveau Book in Britain 1966, The Rise and Fall of the Well-Made Play 1967, The Art Dealers 1969, The Hollywood Musical 1971, The Second Wave 1971, Directors and Directions 1975, Hitch 1978, Cukor's Hollywood 1979; edited: Graham Greene on Film 1972, Masterworks of British Cinema 1974. *Leisure interest:* book collecting. *Address:* c/o The Times, Gray's Inn Road, London WC1X 8EZ, England.

TAYLOR, Lauriston Sale, A.B., D.SC.; American physicist; b. 1 June 1902, Brooklyn, N.Y.; s. of Charles Taylor and Nancy Sale; m. Azulah Walker 1925 (deceased 1972), two s.; m. 2nd Robena Harper Taylor 1973, four d.; ed. Stevens Inst. of Technology, Cornell, Columbia Univs. Bell Telephone Labs., New York City 1922-; Nat. Bureau of Standards (N.B.S.) 1927-64, Chair. Nat. Comm. Radiation, Protection and Measurements 1929-64. Pres. Nat. Council 1964-77, Hon. Pres 1977-; mem. Int. Comm. on Radiological Protection 1928-69, mem. Emer. 1970; Eighth Fighter Command, Ninth Air Force, Europe 1943-45; Chief Biophysics Branch A.E.C. 1947-48; Chief Atomic and Radiation Physics Div. 1950-62, Assoc. Dir. N.B.S. 1962-64; mem. Int. Comm. on Radiation Units and Measurements 1928-34, Sec. 1934-50, Chair. 1953-69, Hon. Chair. and mem. Emer. 1969-; Special Asst. to Pres., Nat. Acad. of Sciences 1965-70; Exec. Dir. Advisory Comm. to Office of Emergency Preparedness 1965-71; Pres. of Nat. Council on Radiation Protection and Measurements 1964-; Hon. D.Sc. (Univ. of Pa. and St. Procopius Coll.). *Publications:* 16 books and about 160 papers principally on X-radiation measurement and protection. *Leisure interests:* cabinet making, plumbing, electrical work. *Address:* 7407 Denton Road, Bethesda, Md. 20014, U.S.A. *Telephone:* 301-652-5096.

TAYLOR, Gen. Maxwell Davenport; American army officer (retd.); b. 26 Aug. 1901; ed. U.S. Military Acad., West Point; commissioned Second Lieut. Corps of Engineers 1922; various assignments in U.S. and abroad; Instructor in French and later Asst. Prof. of Spanish, U.S. Mil. Acad., West Point 1927-32; attended Field Artillery School and Commd. and Gen. Staff School 1932-35; with American Embassy, Tokyo 1935-37 and 1937-39; Asst. Mil. Attaché, Peking 1937; at Army War Coll., Washington, D.C. 1939-40; special mission to Latin American countries 1940; commd. 12th Field Artillery Battn. 1940-41; duty at Office of Sec. of Gen. Staff 1941-42; Chief of Staff and Artillery Commdr. 82nd Infantry Div. 1942; served overseas in Sicilian and Italian campaigns 1943-44; commd. 101st Airborne Div. invasions of Normandy and Holland, Ardennes and Central European campaigns 1944-45; Supt. U.S. Mil. Acad., West Point 1945-49; Chief of Staff, European Commd. H.Q., Heidelberg 1949; U.S. Commdr. Berlin 1949-51; Asst. Chief of Staff for Operations, Dept. of the Army 1951, Deputy Chief of Staff for Operations and Admin. of Army 1951-53; Commdr. 8th Army Feb. 1953-55, General June 1953 and U.S. Army Forces, Far East Nov. 1954-April 1955; C.-in-C. UN Command and Far East Command April 1955; Chief of Staff U.S. Army 1955-59; Pres. Lincoln Center for the Performing Arts 1961; Mil. Rep. of Pres. 1961-62; Chair. Joint Chiefs of Staff 1962-64; Amb. to Repub. of Viet-Nam 1964-65; mem. Foreign Intelligence Advisory Board 1965-68, Chair. 1968; Consultant to the Pres.; Pres. Inst. of Defense Analyses; decorations include D.S.C., D.S.M. (four times), Silver Star; D.S.O. (U.K.), Hon. C.B. (U.K.); Commdr. de la Légion d'honneur (France); French and Belgian Croix de guerre, etc.; Hon. D.Eng. (N.Y. Univ.); Hon. LL.D. (Bowdoin Coll., Williams Coll., Univ. of Mo., Pa, Mil. Coll., Trinity Coll., Yale Univ., Lafayette Coll., Seoul Nat. Univ., Philips Univ.). *Publications:* The Uncertain Trumpet 1960, Responsibility and Response 1967, Swords and Plowshares 1972. *Address:* 2500 Massachusetts Avenue, N.W., Washington, D.C. 20008, U.S.A.

TAYLOR, Paul B.; American modern dancer and choreographer; b. Allegheny County, Pa.; s. of Paul B. Taylor and Elizabeth P. Rust; ed. Virginia Episcopal School, Syracuse Univ., Juilliard School of Music, Metropolitan School of Ballet and Martha Graham School of Contemporary Dance; former dancer with the companies of Martha Graham, George Balanchine, Charles Weidman, Anna Sokolow, Merce Cunningham, Katherine Litz, James Waring and Pearl Lang; now dancer-choreographer-director. The Paul Taylor Dance Co.; since 1956 has undertaken 18 foreign tours, 28 tours throughout U.S.A. and 10 seasons in Broadway; Guggenheim Fellowship 1961, 1965; Chevalier, Ordre des Arts et des Lettres; Centennial Achievement Award (Ohio State Univ.), 1970; Brandeis Univ. Creative Arts Award gold medal 1978; several int. awards for choreography. *Choreography includes:* Three Epitaphs 1956, Rebus 1958, Tablet 1960, Junction 1961, Fibers 1961, Insects and Heroes 1961, Tracer 1962, Piece Period 1962, Aureole 1962, Party Mix 1963, Scudorama 1963, Duet 1964, From Sea to Shining Sea 1965, Post Meridan 1965, Orbs 1966, Agathes' Tale 1967, Lento 1967, Public Domain 1968, Private Domain 1969, Churchyard 1969, Foreign Exchange 1970, Big Bertha 1970, Fetes 1971, Book of Beasts 1971, Guests of May 1972, So Long Eden 1972, Noah's Minstrels 1973, American Genesis 1973, Untitled Quartet 1974, Sports and Follies 1974, Esplanade 1975, Runes 1975, Cloven Kingdom 1976, Polaris 1976, Images 1976, Dust 1977, Aphrodisiamania 1977, Airs 1978, Diggity 1978. *Address:* The Paul Taylor Dance Foundation, 550 Broadway, New York, N.Y. 10012, U.S.A. *Telephone:* 212-431-5562.

TAYLOR, Paul Schuster, M.A., PH.D., LL.D.; American economist; b. 9 June 1895, Sioux City, Iowa; s. of Henry Taylor and Rose Schuster; m. 1st Katharine Whiteside 1920, 2nd Dorothea Lange 1935; one s. two d.; ed. Wisconsin and California Univs.; mem. staff Calif. Univ. 1922-62 and Prof. of Econs. 1939-62, Chair. of Dept. 1952-56, Emer. 1962-; Chair. Inst. Int. Studies 1956-62; Chief Investigator of Mexican Labour in U.S. for Social Science Research Council 1927-29; Consultant Nat. Comm. on Law Observance and Enforcement 1930-31; Latin-American Fellow of Guggenheim Foundation 1931; Regional Labour Adviser Resettlement Administration 1935-36; Pres. California Rural Rehabilitation Corpn. 1936-43; Consultant Social Security Board 1936-40, U.S. Dept. of Interior 1943-52, Export-Import Bank 1952, Int. Co-operation Admin. (now U.S. Agency for Int. Devt. 1955, 1958, 1959, 1961, 1962, 1963, 1966, 1967, 1968, UN 1960, 1963; Visiting Prof. Inst. of Land Reclamation, Univ. of Alexandria 1962-63; Research Dir. California Labor Fed. 1970, Consultant 1971; Wagner Award from California Historical Soc. 1977. *Publications:* Sailors' Union of the Pacific 1923, Mexican Labour in the U.S. 1928-32, A Spanish-Mexican Peasant Community 1933, An American-Mexican Frontier 1934, An American Exodus (with Dorothea Lange) 1939, 1969, Slave to Freedman 1970, Communist strategy and tactics of employing peasant dissatisfaction over conditions of land tenure for revolutionary ends in Vietnam 1970, Georgia Plan 1732-1752 1972. *Address:* 1163 Euclid Avenue, Berkeley, Calif. 94708, U.S.A. *Telephone* 415-524-3880.

TAYLOR, Most Rev. Robert Selby, M.A.; British ecclesiastic; b. 1 March 1909, Cumberland; s. of late Robert Taylor; unmarried; ed. Harrow School, St. Catharine's Coll., Cambridge and Cuddesdon Coll.; ordained Deacon 1932, Priest 1933; Mission Priest, Diocese of Northern Rhodesia 1935, Principal Diocesan Theological Coll. 1939; Bishop of Northern Rhodesia 1941-51, of Pretoria 1951-59, of Grahamstown 1959-64; Archbishop of Cape Town 1964-74; Hon. Fellow, St. Catharine's Coll., Cambridge 1964; Hon. D.D. (Rhodes Univ.) 1966. *Address:* Seaspray, Main Road, Kalk Bay, Cape Province, South Africa. *Telephone:* 8-5588.

TAYLOR-SMITH, Ralph Emeric Kasope, B.SC., PH.D., A.R.I.C., F.R.I.C.; Sierra Leonean organic chemist and diplomatist; b. 24 Sept. 1924; m.; five c.; ed. Univ. of London. Demonstrator, Woolwich Polytechnic, London 1956-69; Lecturer Fourah Bay Coll., Univ. of Sierra Leone 1959-62, 1963, Senior Lecturer 1965, Dean Faculty of Pure and Applied Science 1967, Assoc. Prof. 1968, 1969; Solomon B. Caulkner Post-Doctoral Fellow, Weizmann Inst. of Science, Israel 1962-63; Research Assoc. Princeton Univ., N.J. 1965-69; Visiting Prof. Kalamazoo Coll., Mich. 1969-70; Amb. to People's Repub. of China 1971-74; High Commr. in the U.K. (also accred. to Denmark, Norway and Sweden) 1974-78; Chair. Board of Dirs., Sierra Leone Petroleum Refinery Co. 1970; mem. Board of Educ. of Sierra Leone 1970; served on numerous acad. and public cttees. *Publications:* conf. papers and articles in scientific journals including ■ series of studies, Investigations on Plants of West Africa (I-XII). *Address:* c/o Ministry of Foreign Affairs, Freetown, Sierra Leone.

TCHAIKOWSKY, André; British concert pianist and composer; b. 1 Nov. 1935, Warsaw, Poland; s. of Karol and Felicja Tchaikowsky; ed. Paris Conservatoire, Warsaw Conservatory, private tuition under Stefan Askenase, composition studies with Nadia Boulanger. *Compositions:* Sonata for Clarinet and Piano 1959, Inventions for Piano 1960-61, Love's End (Song Cycle) 1964-67, String Quartet 1966-68, Ariel (Song Cycle) 1969, Concerto for Piano and Orchestra 1966-71, String Quartet No. 2 1973-75, Trio Nottumo for Violin, Cello and Piano 1978. *Leisure interests:* reading, classical literature and drama, solitary walking, chess. *Address:* c/o Harrison & Parrott, 22 Hillgate Street, London, W.8.; 30 The Park, Cumnor, Oxford, OX2 9QS, England (Home). *Telephone:* 01-229 9166.

TCHANQUÉ, Pierre; Cameroonian civil servant; b. 16 Dec. 1925, Douala; s. of Noutchang and Najeukam Tchanqué; m. Odette Tchanqué 1967; two s. two d.; ed. Univ. de Paris; former Dir. of Public Accounts; Sec.-Gen. Ministry of Finance; Dir. Société Nationale d'Investissement du Cameroun; Pres. of Council, CIMENCAM; Dir. of various companies; Sec.-Gen. Union Douanière et Economique de l'Afrique Centrale (UDEAC) 1970-78; Officier et Chevalier de l'Ordre National (Cameroon) and decorations from Tunisia and Fed. Repub. of Germany. *Leisure interests:* games and sport, especially football. *Address:* c/o Ministry of Foreign Affairs, Yaoundé, Cameroon.

TCHERINA, Ludmila; French actress, dancer, painter and sculptor; b. 10 Oct. 1924, Paris; d. of Avenir Tchemerzine and Stéphane Finette; m. 1st Edmond Audran (deceased), 2nd Raymond Roi 1953; ed. privately and studied under Yvan Clustine; First dancer and choreographer, Ballets et Monte Carlo 1940-44, Ballets de Paris 1951-58; founded Compagnie de Ballet Ludmila Tcherina 1958. *Chief appearances include:* Ballets: Romeo and Juliet (with Serge Lifar) Paris 1942, Giselle La Scala, Milan 1954, Bolshoi Theatre, Moscow 1959, Le martyre de Saint Sébastien Paris Opera 1957, Buenos Aires 1967, Les amants de Teruel Théâtre Sarah Bernhardt, Paris 1959, Gala (by Salvador Dali and Maurice Béjart) Venice 1961, Brussels and Paris 1962, La muette de Portici Florence 1968, Anna Karénine Versailles 1975, etc. Films: The Red Shoes, The Tales of Hoffmann, Clara de Montargis, La légende de Parsifal, La nuit s'achève, Oh! Rosalinda, A la mémoire d'un héros, La fille de Mata-Hari, Honeymoon, Les amants de Teruel (Cannes Film Festival, French Entry 1962), Jeanne au bûcher, etc.; TV appearances include, France; Salomé, Bonaparte, La possédée, La dame aux camélias, La passion d'Anna Karénine, La création de la femme; Iran; La Reine de Saba; Fed. Repub. of Germany: Portrait de Ludmila Tcherina. Exhibited drawings and gouaches in Paris 1962 and New York 1962, gouaches and sculptures in Paris 1966, gouaches, lithographs and sculptures in Zurich 1967, paintings in Geneva 1972 and Paris 1973, paintings and gouaches Paris 1975; Prize for Best Feminine Performance, Vichy Film Festival for La

nuit s'achieve 1950, First Prize Dance Film Festival, Buenos Aires for A la mémoire d'un héros 1952, "Oscar" for Best Feminine Performance by ■ Foreign Actress in Tales of Hoffmann 1952, Paris Gold Medal 1959, Chevalier de l'Ordre des Arts et des Lettres 1962, Oscar Italien de la Popularité, Chevalier, Légion d'honneur 1970, Prix Michel Ange 1973, Prix d'honneur Germail-1973, Grande Médaille de Vermeil de la Ville de Paris 1978. *Address:* 42 cours Albert 1er, 75008 Paris, France. *Telephone:* 359-18-33.

TCHOUNGI, Simon Pierre; Cameroonian doctor and politician; b. 28 Oct. 1916; ed. Ecole Primaire Supérieure, Centre Médicale, Ayos, Ecole de Médecine, Dakar, and Univ. de Paris à la Sorbonne; former Dir. of Office, Ministry of Public Health and Population, then of Ministry of Public Works; Dir. Int. Relations, Ministry of Public Health and Population 1959-60; Dir. of Public Health for Cameroon 1961-; Minister of Public Health and Population 1961-64; Minister of Nat. Economy 1964-65; Sec. of State to the Presidency 1965; Prime Minister of East Cameroon 1965-72; numerous decorations. *Address:* B.P. 1057, Yaoundé, Cameroon.

TEAR, Robert, M.A., F.R.S.A., R.C.M.; British opera and concert singer; b. 8 March 1939, Barry, Wales; s. of Thomas Arthur and Edith Tear; m. Hilary Thomas 1961; two d.; ed. Barry Grammar School, King's Coll., Cambridge; embarked on solo career as tenor after singing as member of King's Coll. Choir 1957-60, and St. Paul's Cathedral Choir; joined English Opera Group 1964; worked with leading conductors (including Karajan, Giulimi, Bernstein, Solti), and appeared in numerous operas by Benjamin Britten 1964-68; first appearance at Covent Garden in The Knot Garden, other appearances; Eugene Onegin 1970, Fledermaus 1977, Peter Grimes 1978, Rake's Progess 1979; debut with Scottish Opera in works including La Traviata, Alceste, Don Giovanni, Peter Grimes 1974; Paris Opera 1976; appearances in all major festivals; close asscn. with Sir Michael Tippett (*q.v.*) 1970-. *Publications:* numerous recordings. *Leisure interests:* sport, television, digging, 18th- and 19th-century English water colours. *Address:* 11 Ravenscourt Square, London, W.6, England.

TEASDALE, Joseph Patrick, B.S., LL.B.; American lawyer and public administrator; b. 29 March 1936, Kansas City, Mo.; s. of William B. and Adah (Downey) Teasdale; m. Theresa Ferkenhoff 1973; one s.; ed. St. Benedict's Coll., Rockhurst Coll., St. Louis Univ.; admitted to Mo. Bar 1960; Asst. U.S. Attorney-Gen. 1962-66; Prosecuting Attorney, Jackson County, Mo. 1966-72; Gov. of Missouri 1976-; Outstanding Man of Year (Kansas City Chamber of Commerce) 1969. *Leisure interests:* hunting, fishing, sports. *Address:* State Capitol Building, Room 216, Jefferson City, Mo. 65101; Executive Mansion, 100 Madison, Jefferson City, Mo. 65101, U.S.A. (Home). *Telephone:* (314) 751-3222; (314) 751-4141 (Home).

TEBALDI, Renata; Italian soprano; b. 1 Feb. 1922; ed. Arrigo Boito Conservatory, Parma, Gioacchino Rossini Conservatory, Pesaro, then pupil of Carmen Melis and Guiseppe Pais.; début as Elena in Mefistofele, Rovigo 1944; has sung the principal soprano operatic roles in America and Europe. *Address:* c/o S.A. Gorlinsky Ltd., 35 Dover Street, London, W.1, England; 1 Piazza Guastella, Milan, Italy.

TEBBIT, Sir Donald Claude, K.C.M.G., M.A.; British diplomatist; b. 4 May 1920, Cambridge; m. Barbara Margaret Olson Matheson 1947; one s. three d.; ed. Perse School, Cambridge, Trinity Hall, Cambridge Univ. Royal Naval Volunteer Reserve 1941-46; Foreign Office 1946-48; Second Sec. British Embassy, Washington, D.C. 1948-51; Foreign Office 1951-54; First Sec. (Commercial), Bonn 1954-58; Private Sec. to Minister of State, Foreign Office 1958-61, Counsellor 1962, Sec. Cttee. on Representational Services Overseas 1962-64; Counsellor and Head of Chancery, Copenhagen 1964-67; Head of W. and Gen. Africa Dept., Commonwealth Office 1967; Asst. Under-Sec. of State, FCO 1968; Commercial Minister, Washington, D.C. 1970-71, Minister 1971-72; Deputy Under-Sec. of State, FCO 1973-76; High Commr. in Australia 1976-. *Address:* British High Commission, Commonwealth Avenue, Canberra, A.C.T., Australia; Hill Cottage, Hill Close, Harrow on the Hill, Middx., England (Home).

TEBBUTT, Arthur Rothwell, M.A., PH.D.; American statistician; b. 10 Nov. 1906, New Bedford, Mass.; s. of James and Rosetta Tebbutt; m. Frances Benson 1932; two s.; ed. Brown and Harvard Univs. Harvard Econ. Soc. 1927-28; Asst. Ed. Review of Economic Statistics 1929-30; Instructor in Statistics, Harvard Graduate School of Business Admin. 1930-35; Asst. Prof. of Econs., Brown Univ., and Dir. Bureau of Business Research 1935-40; Prof. of Statistics, Northwestern Univ. 1940-74, Emer. 1974-, Dean of the Graduate School 1945-51; Vice-Pres. American Assen. of Graduate Schools 1949, Pres. 1950; Educational Consultant to French Ministry of Economic Affairs 1956-57; Consultant to business firms; Republican. *Publications:* Behaviour of Consumption in Business Depression 1933, Introduction to Economic Statistics (with W.L. Crum and A.C. Patton) 1938, Government Regulation of Sugar in World War II 1944. *Leisure interests:* golf occasionally. *Address:* 5858 Midnight Pass Road, Sarasota, Fla., U.S.A. *Telephone:* 813-349-2304.

TEDDER, 2nd Baron, cr. 1946, of Glenguin; **John Michael Tedder,** M.A., SC.D., D.SC., F.R.S.E.; British professor of chemistry; b. 4 July 1926, London; s. of the late Marshall of the R.A.F. the 1st Lord Tedder, G.C.B., and of Rosalinde Wilhelmina Tedder (née Maclardy); m. Peggy Eileen Growcott 1952; two s. one d.; ed. Dauntsey's School, Wilts., Magdalene Coll., Cambridge, Univ. of Birmingham; Lecturer in Chem., Sheffield Univ. 1954-62, Reader in Organic Chem. 1962-64; Roscoe Prof. of Chem., Queens Coll., Dundee 1964-69; Purdie Prof. of Chem., St. Salvator's Coll., St. Andrews Univ. 1969-; mem. Court of St. Andrews Univ. 1971-75. *Publications:* Basic Organic Chemistry (Parts I-V) 1966-73, Valence Theory 1966, The Chemical Bond 1978; original papers in Journal of the Chemical Society, Transactions of the Faraday Society and other learned journals. *Address:* Department of Chemistry, University of St. Andrews, St. Andrews, Fife, KY16 9ST (Office); Little Rathmore, Kennedy Gardens, St. Andrews, Fife, Scotland (Home).

TEELOCK, Sir Leckraz, Kt., C.B.E., M.B., CH.B., D.T.M., L.M.; Mauritian diplomatist; b. 4 March 1909, Mauritius; m. Vinaya Kumari Prasad 1948; one s. one d.; ed. Royal Coll. of Mauritius and Univ. of Edinburgh; mem. Legislative Council of Mauritius 1959-63; Commr. for Mauritius in U.K. 1964-68; High Commr. in U.K. March 1968-, also Amb. to the Holy See, Norway, Luxembourg, Denmark, Sweden, Finland and the Netherlands, Amb. to Belgium and the EEC 1972-75. *Leisure interests:* reading, philately. *Address:* Mauritius High Commission, 32-33 Elvaston Place, London, S.W.7, England. *Telephone:* 01-580 0294.

TEIR, Grels, BARR.-AT-LAW; Finnish lawyer and politician; b. 26 Feb. 1916, Lappfjärd; s. of Frans and Hilja (née Hannelius) Teir; m. Doris Häggblom 1950; one s. two d.; Attorney-at-Law 1945-59; Town Councillor of Gamlakarleby 1948-51; mem. Parl. 1951-75; Pres. of youth org. of Swedish People's Party 1953-56, Vice-Chair. of S.F.P. 1956-70; Chair. Swedish Group in Parl, 1963-64, 1966-68, 1971-72, Standing Cttee. on law-procedure in Parl. 1958, 1966-68, 1970, 1972-; Vice-Chair. of Finnish Property Union 1967-73; Dir. Gamlakarleby Helsingfors Aktiebank 1959-71; Minister of Communications and Public Works 1964-66, of Trade and Industry 1968-70, 1972, of Health and Social Affairs 1975; Dir. Gen. of the State Treasury 1973-; mem. City Council and City Board of Helsinki 1977-; Chair. and mem. Several cultural, economic and social socs; Commdr. Finnish Lion Order, Grand Cross Order of Crown (Belgium), Grand Cross Rio Branco Order (Brazil), Commdr. Swedish North Star Order (1st Class), Knight of the White Rose (Finland). *Publications:* Political Chronicles 1954-75. *Address:* Parksvangen 13 D 44, Helsingfors 20, Finland. *Telephone:* 6923551 (Home).

TEIXEIRA PINTO, Luis Maria, PH.D.; Portuguese economist and politician; b. 1927; ed. Instituto Superior de Ciências Econômicas e Financeiras, Technical Univ. of Lisbon and Univ. of Paris; Asst. Prof. Instituto Superior de Ciências Econmicas e Financeiras 1948-62; Sec. Econ. Studies Dept. Portuguese Industrial Assen. 1950-52; mem. Centre for Econ. Studies, Nat. Statistical Inst. 1952-55; Adviser, Commercial Dept., Export Devt. Fund, Paris 1955-56; Prof. Instituto de Altos Estudos Militares 1957-62; Dir. Dept. of Econ. Studies and Projects, Nat. Devt. Bank 1960-62, Vice-Gov. Nat. Devt. Bank 1962-70; Minister of Econ. 1962-65. *Publications:* Algumas notas sobre o Equilibrio Keynesiano 1957, L'évolution de la théorie de la croissance économique 1957, Alguns Aspectos da Teoria do Crescimento Econômico 1957. Portugal e a Integração Econômica Europeia 1960, The Economic Growth of Small Nations: the Portuguese Case 1960, A Unidade Econômica Nacional 1960, Políticas de Desenvolvimento Econômico 1962, O Comércio Internacional ■ os preços dos factores produtivos, L'Economie Portugaise, Problemas do Desenvolvimento Econômico Africano. *Address:* Avenida Infante Santo, 1966-7 C. Esq., Lisbon, Portugal.

TEJADA, Marquis de (*see* Coronel de Palma, Luis).

TEJCHMA, Józef; Polish politician; b. 14 July 1927, Markowa; ed. Acad. of Political Sciences, Higher School of Social Sciences; active leader of Rural Youth Union (Wici Z.M.W.) 1945-48; instructor for school youth problems, Cen. Board of Polish Youth Union (Z.M.P.) 1948; plenipotentiary, Cen. Board of Z.M.P. at Nowa Huta 1951-54; Deputy Head of the Organizational Dept. Cen. Board of Z.M.P. 1954-55; Co-organizer Z.M.W., Chair. Organizational Cttee., Provisional Board and later Cen. Board 1956-63; Head of Agricultural Dept. Polish United Workers' Party (P.Z.P.R.) Cen. Cttee. 1963-64; mem. P.Z.P.R. 1952-; Deputy mem. Cen. Cttee. 1959-64,

mem. 1964-, Sec. Cen. Cttee. 1964-72; mem. Politburo Nov. 1968-; mem. Seym 1958-; Vice-Chair. of Presidium of All-Polish Cttee. of Nat. Unity Front June 1971-; Deputy Chair. Council of Ministers March 1972-; Minister of Culture and Art 1974-78; Chair. Presidium, Council of Higher Artistic Educ.; Deputy Chair. Cttee. of Nat. Prizes; Order of the Banner of Labour (1st Class) 1964, Medal of 30th Anniversary of People's Poland, Order of Builders of People's Poland 1977, and others. *Address:* Urząd Rady Ministrów PRL, Al. Ujazdowskie 3/5, 00-583 Warsaw, Poland.

TE KANAWA, Kiri, O.B.E.; New Zealand opera singer (soprano); b. Gisborne; m. Desmond Park 1967; ed. St. Mary's Coll., Auckland, London Opera Centre; first appearance at Royal Opera, Covent Garden, London, 1970, Santa Fe Opera, U.S.A. 1971, Lyons Opera, France 1972, Metropolitan Opera, New York, U.S.A. 1974; appeared at Australian Opera, Royal Opera House Covent Garden, Paris Opera during 1976-77 season; appeared at Houston Opera, U.S.A., and Munich Opera 1977; debut La Scala, Milan 1978, Salzburg Festival 1979. *Operas:* Boris Godounov 1970-71, Parsifal 1971, Marriage of Figaro 1971, 1972, 1973, 1976, Otello 1972, 1973, 1974, Simone Boccanegra 1973, 1974, 1975, 1976, 1977, Carmen 1973, Don Giovanni 1974, 1975, 1976, Faust 1974, The Magic Flute 1975, La Bohème 1975, 1976, 1977, Eugène Onegin 1975, 1976, Cosi Fan Tutte 1976, Arabella 1977, Die Fledermaus 1978; Don Giovanni (film) 1979. *Recordings include:* Don Giovanni (as Elvira), Così Fan Tutti (as Fiordiligi), Carmen (as Michela), Mozart Vespers, Mozart C Minor Mass, Zauber flöte (Pamina), Hansel und Gretel, Strauss Songs with Orchestra, recital records. *Address:* c/o Artists International Management, 3 and 4 Albert Terrace, London NW1 7SU, England.

TEKOAH, Yosef, LL.EN D., M.A.; Israeli diplomatist; b. 4 March 1925; s. of Saul and Dvora Tekoah; m. Ruth Weidenfeld 1952; two s. one d.; ed. Université L'Aurore, Shanghai, China, and Harvard Univ.; Instructor in Int. Relations, Harvard Univ. 1947-48; Deputy Legal Adviser, Ministry of Foreign Affairs 1949-53; Dir. Armistice Affairs, and Head Israeli dels. to Armistice Comms. with Egypt, Jordan, Syria and Lebanon 1953-58; Deputy Perm. Rep. to UN 1958, Acting Perm. Rep. 1959-60; Amb. to Brazil 1960-62, to U.S.S.R. 1962-65; Asst. Dir.-Gen. Ministry of Foreign Affairs 1966-68; Perm. Rep. to UN 1968-75; Pres. Ben-Gurion Univ. of the Negev 1976-. *Publications:* In the Face of the Nations: Israel's Struggle for Peace 1976. *Address:* Ben Gurion University of the Negev, P.O. Box 2653, Beersheva 84120, Israel.

TELEGDI, Valentine L., M.SC., PH.D.; American physicist; b. 11 Jan. 1922, Budapest; s. of late George Telegdi and of Elea Telegdi (née Csillag); m. Lidia Leonardi 1950; ed. Lausanne Univ. and Swiss Fed. Inst. of Technology. Asst., Swiss Fed. Inst. of Technology 1947-50; Instructor, Univ. of Chicago 1951-53, Asst. Prof. 1953-56, Assoc. Prof. 1956-58, 1958-71, Enrico Fermi Distinguished Service Prof. 1971-; Nat. Science Foundation Senior Postdoctoral Fellow, CERN, Geneva 1959, Guest Prof. 1970; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; American Physical Soc.; Loeb Lecturer, Harvard Univ. 1966. *Publications:* numerous articles in professional journals. *Leisure interests:* travel, gastronomy, jazz. *Address:* The Enrico Fermi Institute, University of Chicago, 5630 Ellis Avenue, Chicago, Ill. 60637, U.S.A. (Office). *Telephone:* 753-8641 (Office).

TELES, José Manuel Galvão, LL.M.; Portuguese politician and diplomatist; b. 1938, Lisbon. Pres. Catholic Univ. of Youth; practised law in Lisbon, opposition defence in judicial trials; founder, active mem. and dir. of several political and cultural orgs. opposing Govts. of Salazar and Caetano, including Pragma, O Tempo e O Modo, Centro Nacional de Cultura; Opposition Cand. in election to Nat. Assembly 1969; worked with Council of the Revolution and with Provisional Govts. April 1974-; mem. Comm. drafting Electoral Law for Constituent Assembly, Comm. guiding negotiations between Portuguese Govt. and liberation movements in Mozambique (FRELIMO) and Angola 1974-75; Perm. Rep. to UN 1975-77. *Address:* c/o Minister of Foreign Affairs, Lisbon, Portugal.

TELLENBACH, Gerd, PH.D.; German university professor; b. 17 Sept. 1903, Berlin-Lichterfelde; s. of Leo Tellenbach and Margarete Eberty; m. Marie-Elisabeth Gerken; two s. one d.; ed. Univs. of Freiburg and Munich. Asst., Prussian Historical Inst. in Rome 1928-33; Lecturer, Heidelberg, Giessen, and Würzburg Univs. 1933-38; Prof., Giessen 1938-42, Münster 1942-44; Prof. of Medieval and Modern History, Univ. of Freiburg, and Dir. Historical School 1944-63; Dir. German Historical Inst., Rome 1962-72; Prof. Univ. of Freiburg 1972-; D. h.c. Ph. et Litt. (Louvain), Hon. D. Litt. (Glasgow). *Publications include:* Die bischöflich passauischen Eigenklöster und ihre Vogteien 1928, Römischer und christlicher Reichsgedanke in der Liturgie des früheren Mittetalters 1934, Libertas, Kirche und Weltordnung im Zeitalter des Investiturstreites 1936, Königtum and Stämme in der Werdezeit des deutschen Reiches 1939, Church, State and Christian Society 1940, Die Entstehung des deutschen Reiches 1940, Goethes geschichtlicher Sinn 1949, Europa im Zeitalter der Karolinger, Historia Mundi V 1956, Studien und Vorarbeiten zur Geschichte des grossfränkischen und frühdeutschen Adels 1957, Zur Bedeutung der Personenforschung für die Erkenntnis des früheren Mittelalters 1957, Kaisertum, Papstum und Europa im hohen Mittelalter, Historia Mundi VI 1958, Neue Forschung über Cluny und die Cluniacenser 1959, Repertorium Germanicum II 1933-61, Der Sybyllinische Preis, Schriften und Reden zur Hochschulpolitik 1946-1963 1963, Empfehlungen zur Neuordnung des Studiums in den Philosophischen Fakultäten 1966, Saeculum Weltgeschichte III and IV 1967, V 1970; Editor: Monumenta Germaniae historica: Liber memorialis Romaricensis (with E. Hlawitschka and K. Schmid) 1970. *Address:* Faculty of Philosophy, Albert-Ludwigs-Universität Freiburg, Belfortstrasse 13, Freiburg (Office); Hintere Steige 4, 78 Freiburg/Br., Federal Republic of Germany (Home). *Telephone:* 56497.

TELLER, Edward, PH.D.; Hungarian-born American scientist; b. 15 Jan. 1908, Budapest, Hungary; s. of Ilona and Max Teller; m. Augusta Mary Harkanyi 1934; one s. one d.; ed. Karlsruhe Technical Inst., and Univs. of Munich and Leipzig. Research Assoc., Leipzig 1929-31, Göttingen 1931-33; Rockefeller Fellow, Copenhagen 1934; Lecturer, Univ. of London 1934-35; Prof. of Physics, George Washington Univ. 1935-41, Columbia Univ. 1941-42; Physicist, Manhattan Engineer District 1942-46; Prof. of Physics, Univ. of Chicago 1946-52; Physicist, and Asst. Dir. Los Alamos Scientific Lab. 1949-52; Consultant, Univ. of Calif. Radiation Lab. Livermore 1952-53, Assoc. Dir. Lawrence Livermore Radiation Lab. 1954-75, Dir. 1958-60, Dir. Emer. 1975-; Prof. of Physics Univ. of Calif. 1953-60, Prof. of Physics-at-Large 1960-70, Univ. Prof. 1970-, Prof. Emer. 1975-; Chair. Dept. of Applied Science, Univ. of Calif. 1963-66; Visiting Prof., Arthur Spitzer Chair of Science, Pepperdine Univ. 1975-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, U.S.A.F. Scientific Advisory Board, etc.; Fellow, American Nuclear Soc.; Sr. Research Fellow, Hoover Inst. for War, Revolution and Peace 1975-; Joseph Priestley Memorial Award 1957, Albert Einstein Award 1959, Mid-west Research Inst. Award, Living History Award 1960, Enrico Germi Award 1962, Robins Award of America 1963, Harvey Prize 1975; Hon. D.Sc. (Yale, Alaska, Fordham, George Washington, S. Calif., St. Louis, Clarkson Coll. Clemson Univ., Maryland); Hon. LL.D. (Mount Mary). *Publications:* The Structure of Matter (with F. O. Rice) 1949, Magneto-Hydrodynamic Shocks (with F. de Hoffmann) 1950, Theory of Origin of Cosmic Rays 1954, Our Nuclear Future (with A. Latter) 1958, Legacy of Hiroshima (with Allen Brown) 1962. The Reluctant Revolutionary 1964, Constructive Uses of Nuclear Explosives (with Talley, Higgins & Johnson) 1968, Great Men of Physics (with others) 1969, General Remarks on Electronic Structure 1970, The Hydrogen Molecular Ion 1970, General Theory of Electron Structure 1970. *Leisure interests:* chess, hiking, piano. *Address:* University of California, Lawrence Livermore Laboratory, P.O. Box 808, Livermore, Calif. 94550; 943 Casaneuva Place, Stanford, Calif. 94350, U.S.A. (Home). *Telephone:* (415) 422-4171.

TEMBO, John Zenas Ungapake; Malawi politician; b. Sept. 1932; ed. senior primary school, Kongwe, Mlanda School, Ncheu, Blantyre Secondary School and Roma Univ. Coll., Basutoland; worked for Colonial Audit Dept. Zomba 1949-55; studied at Roma Univ. Coll. 1955-58; fmr. mem. African Students' Rep. Council; attended course for educational diploma, Salisbury, Rhodesia Dec. 1958-Nov. 1959; teacher Kongwe Secondary School 1959-61; mem. Legislative Council for Dedza 1961-62; Parl. Sec. for Finance 1962-64; M.P. for Dedza North 1964, resigned May 1970; Minister of Finance 1964-68, concurrently Minister of Trade, Industry, Devt. and Planning 1964-68; Minister of Trade and Finance 1968-70; Gov. Reserve Bank of Malawi Aug. 1970-. *Address:* Reserve Bank of Malawi, P.O. Box 565, Blantyre, Malawi.

TEMIN, Howard M., PH.D.; American professor and virologist; b. 10 Dec. 1934, Philadelphia, Pa.; s. of Henry and Annette (née Lehman) Temin; m. Rayla G. Greenberg 1962; two d.; ed. Swarthmore Coll., California Inst. of Tech. Postdoctoral Fellow, Calif. Inst. of Tech. 1959-60; Asst. Prof. of Oncology, Univ. of Wis., Madison 1960-64, Assoc. Prof. 1964-69, Prof. 1969-, Wis. Alumni Research Foundation Prof. of Cancer Research 1971-; American Cancer Soc. Prof. of Viral Oncology and Cell Biology 1974-; mem., American Acad. of Arts and Sciences 1973, Nat. Acad. of Sciences 1974, American Philosophical Soc. 1978; U.S. Steel Foundation Award in Molecular Biology, Nat. Acad. of Science 1972, Griffuel Prize, Assen. for Research against Cancer, Villejuif 1972, American Chem. Soc. Award in Enzyme Chem. 1973, G. H. A. Clowes Award and

Lectureship, American Assn. for Cancer Research 1974, Gairdner Foundation Int. Award (shared) 1974, Albert Lasker Award in Basic Medical Science 1974, Nobel Prize in Physiology or Medicine (shared) 1975. *Publications:* author and co-author of over 100 articles and contributions to books. *Address:* McArdle Laboratory for Cancer Research, University of Wisconsin, 450 North Randall Avenue, Madison, Wis. 53706, U.S.A. *Telephone:* (608) 262-1209.

TEMPLE, George, C.B.E., F.R.S., D.SC., M.A.; British mathematician; b. 2 Sept. 1901, London; s. of James Temple and Frances Compton; m. Dorothy Carson 1930; ed. Birkbeck Coll., and Trinity Coll., Cambridge. Asst. at Birkbeck Coll. 1922-24; Asst. Lecturer in Mathematics City and Guilds Coll. 1924-28; Asst. Prof. Royal Coll. of Science 1930-32; Prof. of Mathematics King's Coll. London 1932-53; Chief Scientific Adviser to Minister of Civil Aviation 1947-49; Sedleian Prof. of Natural Philosophy, Oxford Univ. 1953-68, now Prof. Emer.; Hon. Fellow, Queen's Coll., Oxford 1966; Chair. Aeronautical Research Council 1961-64; Hon. D.Sc. (Dublin, Louvain Univs.) 1966; Hon. D.Lit. (Western Ont.) 1969. *Publications:* Introduction to Quantum Theory 1931, Rayleigh's Principle 1933, General Principles of Quantum Theory 1934, An Introduction to Fluid Dynamics 1958, Cartesian Tensors 1960, The Structure of Lebesgue Integration Theory 1971. *Address:* 341 Woodstock Road, Oxford, England.

TEMPLE, Shirley (*see* Black, Shirley Temple).

TEMPLER, Field Marshal Sir Gerald Walter Robert, K.G., G.C.B., G.C.M.G., K.B.E., D.S.O.; British army officer; b. 11 Sept. 1898, Colchester; s. of late Lieut.-Col. Walter Francis Templer, C.B.E., D.L.; m. Ethel Margery Davie 1926; one s. one d.; ed. Wellington Coll., and Royal Military Coll. Sandhurst; joined Royal Irish Fusiliers 1916; served in First World War, operations in North-West Persia and Mesopotamia 1919-21, operations in Palestine 1936; Brevet Major 1935, Brevet Lieut.Col. 1938; commd. 2nd Corps. 47th (London) Div., 1st Div., 56th (London) Div. and 6th Armoured Div. between 1942 and 1944; Dir. Mill. Govt. 21st Army Group 1945-46; Dir. Mil. Intelligence, War Office 1946-48; Vice-Chief Imperial Gen. Staff 1948-50; G.O.C.-in-C. Eastern Commd. 1950-52; High Commr. and Dir. of Operations, Fed. of Malaya 1952-54; Chief Imperial Gen. Staff 1955-58; Col. Royal Horse Guards (now Blues and Royals) and Gold Stick to H.M. The Queen 1963-; H.M. Lieut. for Greater London 1966-73; Trustee Nat. Portrait Gallery 1958-72, Imperial War Museum 1959-66, Historic Churches Preservation Trust 1963-, mem. Council, Outward Bound Trust 1954-74, Scout Assn. 1968-, of Exec. Cttee. and Council Voluntary Service Overseas 1961-; mem. Nat. Army Museum Council 1960-; Constable of Tower of London 1965-70; Commr. Royal Hosp. Chelsea 1969-; mem. Cttee. of Inquiry into Security Procedures and Practices 1961; Hon. D.C.L. (Oxford), Hon. LL.D. (St. Andrews). *Address:* Flat 7, 31 Sloane Court West, London, SW3 4TE, England.

TEMPLETON, John M., M.A., LL.D., L.H.D.; British investment counsellor; b. 29 Nov. 1912, Winchester, Tenn., U.S.A.; s. of Harvey M. and Vella Handly Templeton; m. Irene Reynolds Butler 1958; two s. one d.; ed. Yale Univ., Balliol Coll., Oxford Univ. (Rhodes Scholar). Pres. of Templeton, Dobbrow and Vance Inc., Investment Counsellors, New York 1940-60, Templeton Growth Fund Ltd., Toronto 1954-, Lexington Research Investing Corpn. 1955-65, Corporate Leaders of America 1959-62, First Trust Bank Ltd., Nassau 1964-, Board of Trustees, Princeton Theological Seminary 1967-73; Pres. Templeton Investment Counsel Ltd., Nassau 1973-, Lyford Cay Property Owners Assn. Ltd. 1973-75, Templeton World Fund Inc. (U.S.A.) 1977-; f. Templeton Foundation Prize for Religion 1973-; Treas. Young President's Foundation 1952-56; Gov. Investment Counsel Assn. of America 1960-61; Chair. Finance Cttee., United Presbyterian Comm. on Ecumenical Mission 1960-69; Dir. Magic Chef Inc., U.S.A. 1967-, Chase Manhattan Trust Co. Ltd., Nassau 1968-, Bahamas Nat. Trust 1975-, British American Insurance Co. Ltd. 1976-77, Caribbean Utilities Co. Ltd., Cayman Islands 1970-76, Bahamas Chamber of Commerce, Ecumenical Inst., Tantur, Israel 1977-; Trustee Wilson Coll., U.S.A. 1951-62; mem. United Presbyterian Council of Theological Seminaries 1964-; Chartered Financial Analysts. *Address:* c/o Lyford Cay Club, Box N7776, Nassau, Bahamas. *Telephone:* 809-327-4295.

TEMPLETON, Malcolm J. C.; New Zealand diplomatist; b. 12 May 1924, Dunedin; m. Barbara Elain Gill 1956; two s. two d.; ed. Otago Univ.; joined Ministry of Foreign Affairs 1946; held diplomatic posts in U.S.A. 1951-57; Head UN Div., later Defence Div., Ministry of Foreign Affairs 1957; Counsellor, London 1962, Minister 1964-67; Imperial Defence Coll., London 1963-64; Asst. Sec. of Foreign Affairs 1967-72; seconded to Prime Minister's Dept. as Deputy Perm. Head 1972; Acting Deputy Sec. of Foreign Affairs Jan.-May 1973; Perm. Rep. to UN 1973-78; rep. to several int. confs., including meetings of Colombo Plan, SEATO Council, Commonwealth Prime Ministers, S. Pacific Forum, UN Law of the Sea Conf.; Deputy Sec. of Foreign Affairs Aug 1978-. *Address:* Permanent Mission of New Zealand to United Nations, Ministry of Foreign Affairs, Private Bag, Wellington, New Zealand.

TENDRYAKOV, Vladimir Fyodorovich; Soviet writer; b. 5 Dec. 1923, Makorovskaya, Vologda Region; ed. Gor'kiy Literary Inst., Moscow. Army service 1941-43; Corresp. Ogonyok 1951-54; admitted to Union of Soviet Writers 1954; mem. CPSU 1948-; Order of Red Banner of Labour. *Publications:* short stories: In the Fields, Ill Suited 1954, The Tight Knot 1956; novels: The Fall of Ivan Chuprov 1953, Pits and Bumps 1956, The Wonder-Worker 1958, For Running Day 1959, The Find 1964, Meeting with Nefertiti 1964, The Apostolic Mission 1969, One Day Butterfly—Short Life 1965, Three Bags Litter Wheat 1972, Spring Madonna 1973, Night After Co-Graduates 1974, The Eclipse 1977, The Disease (Konchina) 1968, etc.; films: Alien In-Laws 1955, Miracle Worker 1960, Short Circuit 1961, The Trial 1962, Spring Changes 1975. *Address:* Union of Writers of the U.S.S.R., 52 Ulitsa Vorovskogo, Moscow, U.S.S.R.

TENENBAUM, Michael, M.S., PH.D.; American business executive; b. 23 July 1914, St. Paul, Minn.; m. Helen Zlatovski 1941; two d.; ed. Harvard Univ. and Univ. of Minnesota; joined Inland Steel Co. 1936; Gen. Man. Research and Quality Control 1961-66, Vice-Pres., Research 1966-68, Vice-Pres., Steel Manufacturing 1968-71, Pres. and Dir. 1971-; Chair. Caland Ore Co., Jackson County Iron Co., Inland Steel Coal Co., Inland Steel Mining Co., Dir. Inland Lime and Stone Co., Inland-Ryerson Foundation, Inc., Jos. T. Ryerson and Son, Inc. Continental Illinois Corpn., Continental Illinois Nat. Bank and Trust Co. of Chicago; mem. American Inst. of Mining, Metallurgical and Petroleum Engineers, Metallurgical Soc. (Pres. 1968, Fellow 1971), Iron and Steel Inst. (American and Int.). The Metals Soc. (U.K.), Nat. Acad. of Eng.; Fellow, American Soc. for Metals; Hon. D.Sc. (Northwestern Univ.); recipient of several achievement awards including Washington Award. *Publications:* articles in prof. journals. *Address:* Inland Steel Company, 30 West Monroe Street, Chicago, Ill. 60603, U.S.A.

TENG CHUN-CHING; Chinese government official; mem. Standing Cttee., Inner Mongolia Regional CCP Cttee. 1978-; Political Commissar Inner Mongolia PLA Mil. District. 1978-. *Address:* People's Republic of China.

TENG HSIAO-P'ING; Chinese politician; b. 22 Aug. 1904, Kuangan, Szechuan; m. Cho Lin; ed. French School, Chungking, in France and Far Eastern Univ., Moscow. Dean of Educ., Chungshan Mil. Acad., Shensi 1926; Chief of Staff Red Army 1930; Dir. Propaganda Dept., Gen. Political Dept., Red Army 1932; on Long March 1934-36; Political Commissar during Sino-Japanese War; mem. 7th Cen. Cttee. of CCP 1945; Political Commissar 2nd Field Army, People's Liberation Army 1948-54; First Sec. E. China Bureau, CCP 1949; Sec.-Gen. Cen. Cttee. of CCP 1953-56; Minister of Finance 1953; Vice-Chair. Nat. Defence Council 1954-67; Vice-Premier, State Council 1954; mem. Politburo, CCP 1955-67; Secr. of Cen. Cttee., CCP 1956-67; Gen.-Sec. 8th Cen. Cttee. of CCP 1956; criticized and removed from office during Cultural Revolution 1967; mem. 10th Cen. Cttee. of CCP 1973; mem. Politburo, CCP 1974-76; Vice-Chair. Mil. Affairs Cttee. of CCP Cen. Cttee. 1975-76; Chief of Gen. Staff, PLA 1975-76; Vice-Premier, State Council 1975-76; attacked as "unrepentant capitalist roader" and removed from office April 1976; mem. Politburo 11th Cen. Cttee. CCP 1977–; Vice-Chair. CCP 1977-; Chief of Gen. Staff, PLA 1977-; Vice-Premier, State Council 1977-; Exec. Chair. Press., 5th NPC 1978–; Exec. Chair. 5th Nat. Cttee. CPPCC. *Address:* People's Republic of China.

TENG YING-CH'AO; Chinese party official; b. 1903, Hsinyang, Honan Province; m. late Chou En-lai (Premier of State Council 1949-76) 1925; ed. Tientsin No. 1 Girls' Nat. School; arrested for part in May 4th Movement 1919; went to France as student with Chou En-lai and others 1920; founded Paris Branch of CCP 1921; took part in Long March 1934-36; Dir. Women's Work Dept., CCP 1937; Alt. mem. 7th Cen. Cttee., CCP 1945; Vice-Chair. All-China Democratic Women's Fed. 1953-; mem. 8th Cen. Cttee. CCP 1956, re-elected 9th Cen. Cttee. 1969, 10th Cen. Cttee. 1973; ■ Vice-Chair. Standing Cttee. 4th Nat. People's Congress Nov. 1976-, 5th Nat. People's Congress; Exec. Chair Pres. 5th Nat. People's Congress 1978-; mem 11th Cen. Cttee. CCP 1977; mem. Politburo, Cen. Cttee. CCP 1978-; see. Cen. Comm. for Inspecting Discipline 1978-. *Address:* People's Republic of China.

TEN HOLT, Friso; Netherlands painter and etcher; b. 6 April 1921, Argeles-Gazost, France; m. A. Taselaar 1946; two s. one d.; ed. Rijksakademie van Beeldende Kunsten, Amsterdam; paintings mainly of swimmers, landscapes and nudes, portraits and figures; Prof. of painting, Rijksakademie van Beeldende Kunsten, Amster-

dam 1969-; one-man exhibitions in Netherlands since 1952, London 1959, 1962, 1963, 1965, 1969; Group exhbns. at Beaverbrook Art Gallery, Canada, and Tate Gallery, London 1963, Biennale Salzburg 1964, Carnegie Inst., Pittsbugh 1964, Netherlands travelling exhbn. 1957-58; works in collections in Netherlands, Sweden, U.K., France and America. Major works: stained-glass windows for churches in Amsterdam and The Hague. *Leisure interest:* horse riding. *Address:* Keizersgracht 614, Amsterdam, Netherlands. *Telephone:* 230736.

TENNANT, Sir Peter Frank Dalrymple, Kt., C.M.G., O.B.E., M.A.; British company director and industrial adviser; b. 29 Nov. 1910, Hoddesdon; s. of George F.D. and Barbara (née Beck) Tennant; m. 1st Hellis Fellenius 1934, 2nd Galina Bosley 1953; one s. two d. and one step s.; ed. Marlborough Coll. and Trinity Coll., Cambridge. Fellow, Queens' Coll., Cambridge 1933-47, Lecturer in Scandinavian languages 1933-39; diplomatic service 1939-52, served in Stockholm, Paris and Berlin; Overseas Dir., later Deputy Dir.-Gen. Fed. of British Industries 1952-65; Dir. Gen. British Nat. Export Council 1965-71; Industrial Adviser, Barclays Bank International 1972-; Dir. C. Tennant Sons & Co. Ltd., London, Prudential Corpn., Prudential Assurance Company Ltd., Anglo-Rumanian Bank; Chair. Gabbitas Thring Educ. Trust; fmr. Chair. London Chamber of Commerce. Pres. 1978-79; Academic Council Wilton Park, Gov. Body Int. Briefing Centre. Farnham Castle; fmr. mem. Design Council, BBC Advisory Council. *Publications:* Ibsen's Dramatic Technique, The Scandinavian Book. *Leisure interests:* country pursuits, painting, travel, languages. *Address:* Blue Anchor House, Linchmere Road, Haslemere, Surrey, GU27 3QF, England. *Telephone:* Haslemere 3124.

TENZING Norgay; G.M.; Nepalese mountaineer; b. *circa* 1914 in eastern Nepal, migrated to Bengal 1932; took part (as porter) in expeditions under Shipton 1935, Ruttledge 1936 and Tilman 1938; joined small expedition to Karakoram 1950, and French expedition to Nanda Devi 1951, when he and one Frenchman climbed the east Peak; Sirdar to both Swiss expeditions 1952, joining assault parties and reaching about 28,000 feet; Sirdar to British Everest expedition 1953, when he and Hillary reached the summit on May 29th; Dir. of Field Training, Himalayan Mountaineering Inst., Darjeeling 1954-, Coronation Medal 1953, Star of Nepal 1953, numerous medals and awards. *Publication:* After Everest (autobiog.) 1977. *Address:* 1 Tonga Road, Ghang-La, Darjeeling, West Bengal, India. *Telephone:* 2161.

TEPAVAČ, Mirko; Yugoslav politician; b. 1923; joined Tito's partisans 1941, served throughout war; later served as Amb. to Hungary; Deputy Foreign Sec. 1959-65; First Sec. CP in Vojvodina, Serbia until 1969; Federal Sec. for Foreign Affairs 1969-72. *Address:* Department of Foreign Affairs, Belgrade, Yugoslavia.

TEREBILOV, Vladimir Ivanovich; Soviet lawyer; b. 18 March 1916, Petrograd (now Leningrad); ed. Leningrad Inst. of Law; Regional Public Procurator 1939-49; Senior Scientific Worker and Scientific Sec., Inst. of Criminology 1949-57; Deputy Head of Board of Public Procurators, U.S.S.R. 1957-61; mem. U.S.S.R. Coll. of Public Procurators 1961-62; Vice-Chair. of U.S.S.R. Supreme Court 1962-70; U.S.S.R. Minister of Justice 1970-; Deputy to U.S.S.R. Supreme Soviet 1970-; mem. CPSU 1940; mem. Cen. Auditing Cttee of CPSU 1971-76; Cand. mem. Cen. Cttee. CPSU 1976-; Order of Lenin, and other decorations. *Address:* U.S.S.R. Ministry of Justice, 15 Ulitsa Vorovskogo, Moscow, U.S.S.R.

TERENZIO, Pio-Carlo, LL.D.; Italian international civil servant; b. 4 Sept. 1921, Lausanne, Switzerland; s. of Rodolfo Arnoldo Terenzio and Katherine Agopian; m. Luisa de Notaristefani 1950; two s.; ed. Univs. of Rome and Geneva; joined Int. Labour Office (ILO) 1948; Officer in charge of Relations with Int. Orgs, UNESCO 1948-60, Dir. in charge of Congo Operations 1960-63, Dir. Bureau of Relations with Member States 1963-69, Dir. Bureau of Personnel 1969-70; Sec.-Gen. Inter-Parl. Union (IPU) Aug. 1970-. *Publications:* La rivalité anglo-russe en Perse et en Afghanistan 1947. *Address:* Inter-Parliamentary Union, Place du Petit-Saconnex, 1211 Geneva 28 (Office); 10 chemin Colladon, Petit-Saconnex, Geneva, Switzerland (Home). *Telephone:* 34-41-50 (Office); 98-22-94 (Home).

TERESA, Mother (Agnes Gonxha Bojaxhiu); Albanian-born Roman Catholic missionary; b. 27 Aug. 1910, Skopje, now Yugoslavia; joined Sisters of Loretto 1928; worked at Loretto insts. in Ireland and India; Principal St. Mary's High School, Calcutta; founded the Missionaries of Charity 1950; through the Missionaries of Charity has set up over fifty schools, orphanages and houses for the poor in India and other countries; opened Nirmal Hriday (Pure Heart) Home for Dying Destitutes 1952; started a leper colony in West Bengal 1964; Pope John XXIII Peace Prize 1971, Templeton Foundation Prize 1973; Hon. D.D. (Cambridge) 1977. *Address:* Missionaries of Charity, Nirmal Hriday Home for Dying Destitutes, 5A Lower Circular Road, Calcutta, India.

TERESHKOVA, Valentina Vladimirovna Nikolayeva-; Soviet cosmonaut; b. 6 March 1937, Tutayev, Yaroslavl Region; m. Andriyan Nikolayev; ed. Yaroslavl Textile Coll. and Zhukovsky Air Force Engineering Acad.; former textile worker, Krasny Perekop textile mill, Yaroslavl, and textile mill Sec., Young Communist League; mem. CPSU 1962-, Cen. Cttee. CPSU 1971-; cosmonaut training March 1962-; made 48 orbital flights of the earth in spaceship Vostok VI 16th June to 19th June 1963; first woman in world to enter space; Deputy to U.S.S.R. Supreme Soviet 1962-; Chair. Soviet Women's Cttee. 1968-; mem. Supreme Soviet Presidium 1974-; Visit to U.K. 1977; Pilot-Cosmonaut of U.S.S.R., Hero of Soviet Union, Order of Lenin (twice), Gold Star Medal, Joliot-Curie Gold Medal, World Peace Council 1966, Order of the Nile (Egypt) 1971. *Address:* Zvezdny Gorodok, Moscow, U.S.S.R.

TERKELSEN, Terkel M.; Danish journalist; b. 8 Nov. 1904. Tjaereborg; m. Ella Schmidt 1929; three d.; London Ed. of Berlingske Tidende 1937-40 and 1945-46; Political Intelligence Dept. of the Foreign Office, and Commentator B.B.C. Danish Service 1941-45; mem. of the Danish Council, London (Free Danes) 1940-45; Chief Ed. Berlingske Tidende and Berlingske Aftenavis 1946-72; Chair. Board of Berlingske Tidende and subsidiary cos. 1973-75, Editorial Adviser 1975-; Chair. Fed. of Danish Newspapers 1969-72, Danish Nat. Cttee. of the Int. Press Inst. 1969-72; mem. Exec. Cttee. Training Coll. for Journalists, Aarhus 1969-72; Hon. C.B.E. *Publications in English:* Denmark—Fight Follows Surrender 1941, Frontline in Denmark 1943; in Danish: Problems of Liberation 1944, Code Words from London 1971, From Reliable Sources (memoirs) 1977. *Leisure interests:* fishing, shooting. *Address:* Berlingske Tidende, Pilestraede 34, 1147 Copenhagen K (Office); Mylius Erichsens Alle 29, 2900 Hellerup, Denmark (Home). *Telephone:* Copenhagen 157575 (Office); (01) 691410 (Home).

TERMAN, Frederick Emmons, A.B., SC.D.; American electrical and radio engineer; b. 7 June 1900, English, Ind.; s. of Lewis M. and Anna B. (née Minton) Terman; m. Sibyl Walcutt 1928; three s.; ed. Stanford Univ., Mass. Inst. of Technology; Instructor Electrical Eng., Stanford Univ. 1925-27, Asst. Prof. 1927-30, Assoc. Prof. 1930-37, Prof. and Exec. Head Dept. 1937-45; Dir. Harvard Univ. Radio Research Laboratory 1942-45; mem. Vacuum Tube Devt. Cttee. NDRC and JCB 1943-46; mem. Divs. 1914 and 15 of Nat. Defence Research Cttee. 1942-45, Naval Research Advisory Cttee. 1956-64, Chair. 1957-58; Dean of School of Engineering, Stanford Univ. 1945-58, Provost 1955-65, Vice-Pres. 1959-65, Emer. 1965-; Trustee SMU Foundation for Science and Engineering 1965-; mem. Nat. Acad. of Sciences, Chair. Engineering Section 1953-56, Council 1956-59; Founder mem. Nat. Acad. of Engineering; mem. American Philosophical Soc.; Vice-Pres. Inst. Radio Engineers 1940, Pres. 1941, Dir. 1940-43, 1948-49, Medal of Honor 1950, Founders Award 1962; Vice-Pres. American Soc. of Eng. Educ. 1949-51; AIEE Educ. Medal 1956, Lamme Medal 1964; mem. Board of Foreign Scholarships 1960-66, Medal for Merit 1948; Herbert Hoover Medal, Stanford Alumni Assn. 1969; Nat. Medal of Science 1975; Uncommon Man Award; Hon. Sc.D. (Harvard, B.C. and Syracuse Univs.). *Publications:* Transmission-Line Theory (with W. S. Franklin) 1927, Radio Engineering 1932, 1937, 1947, Measurements in Radio Engineering 1932, 1937, 1947, Measurements in Radio Engineering 1935, Fundamentals of Radio 1938, Radio and Vacuum Tube Theory (in collaboration with U.S. Mil. Acad. staff) 1940, Radio Engineers' Handbook 1943, Electronic Measurements (with J. M. Pettit) 1952, Electronic and Radio Engineering 1955. *Address:* Room 174, McCullough Bldg., Stanford University, Stanford, Calif. 94305 (Office); 445 El Escarpado, Stanford, Calif. 94305, U.S.A. (Home). *Telephone:* (415) 497-2487 (Office); (415) 321-1646 (Home).

TERRACINI, Umberto Elia, LL.D.; Italian journalist; b. 27 July 1895, Genoa; m. Marialaura Gagno 1948; one s.; ed. law school; convicted many times in early twenties for activity in the workers' movement; sentenced by special Fascist Tribunal to 23 years' imprisonment June 1925; released after the overthrow of Mussolini Aug. 1943; Pres. of Constituent Assembly until April 1948; Senator May 1948-76; mem. of Italian CP; collaborator on Ordine Nuovo (founded 1919); Pres. of Communist Group of Senate. *Leisure interests:* music (piano), pictures. *Address:* Via Dogana Vecchia 29, Rome, Italy.

TERRAINE, John Alfred; British writer; b. 15 Jan. 1921, London; s. of Charles William Terraine and Evelyn Holmes; m. Joyce Elizabeth Waite 1945; one d.; ed. Stamford School, Keble Coll., Oxford; Recorded Programmes Section, BBC 1943, Radio Newsreel

1945, Russian Section 1947, Pacific and South African Programme Organizer 1953; free-lance writer 1963-; Screenwriters' Guild Documentary Award 1964, Soc. of Film and TV Arts Script Award 1969. *Publications:* Mons 1960, Douglas Haig: The Educated Soldier 1963, The Great War 1964, The Western Front 1964, General Jack's Diary (Editor) 1964, The Life and Times of Lord Mountbatten 1968, Impacts of War, 1914 and 1918 1970, The Mighty Continent 1974, Trafalgar 1976, The Road to Passchendaele 1977, To Win a War: 1918 The Year of Victory 1978. *Address:* 74 Kensington Park Road, London, W11 2PL, England.

TERRAY, Jean Pierre; French banker; b. 28 July 1906; Pres. Banque de l'Union Européenne 1968; Pres., Cie Financière de l'Union Européene 1968-71, now Hon. Pres.; Pres. and Dir.-Gen. Banque Franco-Arabe d'Investissements Internationaux 1971-; Pres. Crédit Chimique 1972, now Hon. Pres. and Dir.; Pres. Anjou Devts. Property Ltd. (Australia); Dir. Lille-Bonnières et Colombes, Roussel-Uclaf, Chrysler France, Le Continent, Moët Hennessy, Sopelem, Financière de Développement et de Conseil, Banque Nationale Canadienne. *Address:* 20 rue Treilhard, 75008 Paris (Office); 11-bis passage de la Visitation, 75007 Paris, France (Home).

TERRENOIRE, Louis: French journalist and politician; b. 10 Nov. 1908; former trade union Sec.; Ed. La Voix Sociale, Nouveau Journal de Lyon 1930-31, Editorial Sec. L'Aube 1932-39, later Ed.; Sec. Conseil Nat. de la Résistance 1944; captured and deported; Deputy to Nat. Ass. from Orne 1945-51; Sec.-Gen. Rassemblement du Peuple Français (R.P.F.) 1951-54; Dir. News and Information, Radiodiffusion-Télévision Française July-Nov. 1958; Deputy from Orne 1958, 1962-73; Minister of Information Feb. 1960-Aug. 1961; Minister attached to Office of Prime Minister Aug. 1961-Apr. 1962; Sec.-Gen. Union pour la Nouvelle République 1962; mem. European Parl. 1963-73, Vice-Pres. 1967-73; Pres. Association de solidarité Franco-arabe 1967-; Pres. Union pour la Nouvelle République Group in Assembly 1959-60; Officier, Légion d'honneur, Croix de guerre, Rosette de la Résistance. *Publications:* De Gaulle et l'Algérie, De Gaulle vivant 1971, Sursitaires de la mort lente 1976. *Address:* 6 rue de Rémusat, 75016 Paris, France.

TERRY, Luther Leonidas: American physician and public health administrator; b. 15 Sept. 1911, Red Level, Ala.; s. of James and Lula (née Durham) Terry; m. Beryl Reynolds 1940; two s. one d.; ed. Birmingham-Southern Coll., and Tulane Univ.; Chief, Medical Services, Public Health Service Hospital, Baltimore 1943-53, Chief Cardiovascular Clinic 1950-53, Chief. Gen. Medicine and Experimental Therapeutics at P.H.S. Nat. Heart Inst. 1950-58, Asst. Dir. 1958-61; Dir. Residency Training Program, Nat. Heart Inst. 1953-61; Asst. Prof. Johns Hopkins Univ. School of Medicine 1953-61; Chair. Cardiovascular Research Training Cttee. 1957-61; Surgeon-Gen. U.S. Public Health Service 1961-65; Vice-Pres. for Medical Affairs, Univ. of Pa. 1965-71, Prof. of Medicine and Prof. of Community Medicine, 1965-75, Adjunct Prof. Community Medicine 1975-; Chief U.S. del., WHO 1961-65; mem. Expert Comm. on Cardiovascular Disease, Smoking and Disease, WHO 1975-; Fellow, American Coll. of Physicians 1943, Gov. 1961-65, Hon. Master 1973; mem. Board of Overseers, Harvard Univ. School of Public Health; Fellow, American Coll. of Cardiology; Cttee. mem. American Heart Assn.; mem. Nat. Board of Medical Examiners; mem. Board of Dirs. Nat. Soc. for Medical Research; Diplomat, American Board of Internal Medicine; mem. Nat. Acad. of Sciences; Chair. Cttee. on Veterinary Medicine, Research and Educ.; mem. and officer numerous professional orgs.; Hon. D.Sc. (Birmingham-Southern Coll., Jefferson Medical Coll., Tulane Univ., Univ. of Rhode Island, McGill Univ. Montreal, Ala. Univ., St. Joseph's Coll., Pa. and Rose Polytechnic Inst.), Hon. M.D. (Woman's Medical Coll. of Pa.), Hon. LL.D. (Union Coll. New York, Calif. Coll. of Medicine, Univ. of Alaska, Marquette Univ., Philadelphia Coll. of Pharmacy and Science) 1964; numerous Hon. Fellowships and awards. *Leisure interests:* fishing, hunting, tennis. *Address:* 2035 Delancey Place, Philadelphia, Pa. 19103, U.S.A. *Telephone:* 215-732-2244.

TERZAKIS, Anghelos; Greek novelist and dramatist; b. 16 Feb. 1907, Nauplia; m. Luisa Vogasari 1936; one s.; ed. Univ. of Athens; Sec. Nat. Theatre 1937, and later apptd. Dir. of Repertory, Artistic Dir. and Gen. Dir.; Theatre Critic and Literary Contributor to Athens daily newspaper Vima; ed. Epoches magazine 1963-67; mem. of Athens Acad.; Commdr. Order of King George; First Prize of Athens Acad. *Publications include:* (novels) The Violet City 1937, Princess Izabo 1945, Without God 1951, Secret Life 1957; (plays) Emperor Michael 1936, The Cross and the Sword 1939, Theophano 1956, The Mediterranean Night 1958, The Lady in White Gloves 1962, Thomas the Apostle 1962, The Ancestor 1970; (history) Greek Epic 1964; (essays) To the Tragic Muse 1970. *Leisure interest:* films. *Address:* 23 Odos Strat., Syndesmou (136), Greece. *Telephone:* 36-18-223.

TESAURO, Giuseppe, M.D.; Italian gynaecologist; b. 21 June 1898, Avellino; s. of Beniamino Tesauro and Antonietta Ranucci; m. Maria Grazia Benedetti; two s.; ed. Univ. of Naples; Titular Prof. of Obstetrics and Gynaecology, Univ. of Sassari 1935-36, Univ. of Messina 1936-43, Dean Faculty of Medicine, Messina 1939-43; Titular Prof. of Obstetrics and Gynaecology and Dir. of Clinical Obstetrics and Gynaecology, Univ. of Naples 1943-; Rector, Univ. of Naples 1959-75; Pres. Società Italiana di Ostetricia e Ginecologia 1959-61, Int. Fertility Assn. 1962-66, Int. Fed. of Gynaecology and Obstetrics 1964-67; official of numerous medical and govt. orgs. *Publications:* Cancer du col de l'utérus sur moignon d'hystérectomie subtotale 1928, Sur le dévoloppement de tumeurs dans les ovaires soumis à l'action des rayons X 1928, Über Erzeugung von Ehrlich-Adeno-Carcinomen-Tieren 1932, Die Bewertung des eklamptischen Anfalls 1932, La sterilità femminile 1939, Conceptions actuelles sur le diagnostic et le traitement du cancer de l'utérus 1953, Le dépistage du cancer de l'utérus par la méthode cytologique 1954, Les isotopes radioactifs dans l'étude de la circulation amniotique 1958, L'influence de l'isoimmunisation Rh sur la mortalité du nouveau-né 1959, Déséquilibres métaboliques hormonaux gravidiques et anomalies congénitales 1960, Thalassemia and Fertility 1962, Arteriografia pelvica dopo isterectomia radicale 1963, Trattato Italiano di Ginecologia 1964. *Address:* 51 Via S. Brigida, Naples, Italy. *Telephone:* 320421.

TESCH, Emmanuel Camille Georges Victor; Luxembourg business executive; b. 9 Dec. 1920, Hespérange; s. of Georges Tesch and Marie-Laure Weckbecker; m. Thérèse Laval 1949; one s.; ed. Technische Hochschule, Aachen and Eidgenössische Technische Hochschule, Zürich; Engineer, Manufacture de Tabacs Heintz van Landewyck 1948-51; Man. Dir. Société Générale pour le Commerce de Produits Industriels (SOGECO); joined ARBED auditor 1958, Dir. 1968, Chair. 1972; Chair. TradeARBED S.A. 1972, ARBED Finance S.A. 1972, SALEM S.A. 1974, Groupement des Industries Sidérurgiques Luxembourgeoises 1973, Chambre de Commerce du Grand-Duché de Luxembourg 1974; 2nd Deputy Chair. Stahlwerke Röchling-Burbach GmbH 1977; Head Eurofer 1979-; Dir. SIDMAR S.A., Cie. Maritime Belge, Cie. Financière de Développement des Entreprises (C.F.D.E.), Eschweiler Bergwerks-Verein, Saarbergwerke A.G., F. & G. Carlswerk A.G., Dresdner Bank A.G., F. & G. Fabrik Elektrischer Kabel, Companhia Siderurgica Belgo-Mineira S.A., Talleres Metalúrgicos San Martin "TAMET", SOGECO S.A.; Conseiller Société Générale de Belgique; Médaille de la Résistance (France); Commdr. Ordre de la Couronne de Chêne (Luxembourg); Commdr. avec Couronne dans l'Ordre de mérite civil et militaire d'Adolphe de Nassau (Luxembourg); Ordre de la Couronne (Belgium); Commdr. Order of Orange-Nassau (Netherlands); Cavaliere di Gran Croce (Italy); Order of Tudor Vladirmirescu (Romania); Hon. K.B.E. *Leisure interests:* shooting, fishing, gardening, literature. *Address:* Administration Centrale de l'ARBED, avenue de la Liberté, Luxembourg (Office); La Cléchère, Kockelscheuer, Luxembourg (Home). *Telephone:* 47-921 (Office); 36-81-68 (Home).

TESHIGAHARA, Sofu (Koichi); Japanese artist in flower arrangement (Ikebana), sculptor and calligrapher; b. 1900, Tokyo; s. of Hisatsugu Teshigahara; m. Hama Teshigahara 1925; one s. one d.; founded Sogetsu Ikebana School 1927; numerous int. awards including Officier, Légion d'honneur; *Publications:* many books on Ikebana in English and other languages. *Address:* Sogetsu School, 2-21, Akasaka 7-chome, Minato-ku, Tokyo 107, Japan. *Telephone:* (03) 408-1126.

TETLEY, Glen; American ballet director and choreographer; b. 3 Feb. 1926, Cleveland, Ohio; s. of Glenford Andrew Tetley and Mary Eleanor Byrne; ed. Franklin and Marshall Coll., Lancaster, Pa. and New York Univ.; performed with Hanya Holm, José Limon, Pearl Lang, John Butler modern dance cos.; prin. dancer, New York City Opera 1951-54; leading soloist, Robert Joffrey Ballet 1955-56, Martha Graham Dance Co. 1957-59, American Ballet Theater 1959-61, Jerome Robbins' Ballet U.S.A. 1961-62; formed own company 1962-69; dancer and choreographer, Nederlands Dans Theater, Co-Artistic Dir. 1969; guest choreographer Royal Danish, Swedish, Norwegian Ballets, Hamburg State Opera; choreographer Royal Ballet, Covent Garden, American Ballet Theatre, Ballet Rambert; Dir. Stuttgart Ballet 1974-76; German Critics Award (for Die Feder) 1969. *Performances:* Kiss me Kate, Out of this World, Amahl and the Night Visitors; choreography: Pierrot Lunaire, Sargasso, The Anatomy Lesson, Circles, Imaginary Film, Arena, Small Parades, Mutations, Embrace Tiger and Return to Mountain, Ziggurat, Rag Dances, Ricercare, Field Figures, Laborintus, Mythical Hunters, Gemini, Chronocromie, Threshold, Moveable Garden, Voluntaries, Le sacre du printemps, Greening, Nocturne, Sphinx, Praeludium. *Address:* 4 Goodwins Court, St. Martin's Lane, London WCZN 4LL, England.

TETT, Sir Hugh Charles, Kt., A.R.C.S., B.SC., D.I.C.; British businessman; b. 28 Oct. 1906, Exeter, Devon; s. of late James Charles Tett and of Florence Tett (née Lihou); m. 1st Katie Sargent 1931 (died 1948), 2nd Joyce Lilian (née Mansell) 1949; two d.; ed. Univ. Coll., Exeter, and Royal Coll. of Science, London; Esso Petroleum Co. 1928-67, Chair. 1959-67; Chair. Addis Ltd. 1973-76, Bristol Composite Material Ltd. 1974; Dir. Esso-Europe 1966-68, Pirelli Gen. Cable Works Ltd. 1970, Black and Decker Ltd. 1970-77, Bristol Composite Materials Ltd. 1972, Chair. 1974-79; Pro-Chancellor Univ. of Southampton 1967-79; Fellow Imperial Coll., London 1964; Hon. D.Sc. (Southampton 1965, Exeter 1970). *Leisure interest:* golf. *Address:* Ladymead Cottage, West Strand, West Wittering, Chichester PO20 8AU, England. *Telephone:* West Wittering 2597.

TÉVOÉDJRÈ, Albert, D. ès SC. ECON. et SOC., L. ès L.; Benin politician and international civil servant; b. 1929, Porto Novo; m. Isabelle Ekué 1953; three s.; ed. Toulouse Univ., Fribourg Univ., Institut Universitaire de Hautes Etudes Internationales, Geneva, Sloan School of Management and Massachusetts Inst. of Technology (Advanced Programme for Senior Executives); teaching assignments include: Lycée Delafosse, Dakar, Senegal 1952-54, Cahors, France 1957-58, Lycée Victor Ballot, Porto Novo 1959-61, Geneva Africa Inst. 1963-64, Georgetown Univ., Washington D.C. 1964; Sec. of State for Information 1961-62; Sec.-Gen. Union Africaine et Malgache (U.A.M.) 1962-63; Research Assoc. Harvard Univ., Centre for Int. Affairs 1964-65; Inst. Labour Office 1965-, Regional Dir. for Africa March 1966, Asst. Dir.-Gen. 1969-75, Deputy Dir.-Gen. 1975; Dir. Int. Inst. for Labour Studies 1975-; fmr. Chief Ed. L'Etudiant d'Afrique Noire; founder mem. Promotion Africaine (society to combat poverty in Africa); founder-mem. Nat. Liberation Movt. and mem. Cttee. 1958-60; Deputy Sec.-Gen. of Nat. Syndicate of Teachers, Dahomey 1959-60. *Publications:* L'Afrique revoltée 1958, La formation des cadres africains en vue de la croissance économique 1965, Pan-Africanism in Action 1965, L'Afrique face aux problèmes du socialisme et de l'aide étrangère 1966, Une stratégie du progrès social en Afrique et la contribution de l'OIT 1969, Pour un contrat de solidarité 1976, La pauvreté—richesse des peuples 1978, etc. *Address:* International Labour Organization, P.O. Box 6, 1211 Geneva 22 (Office); Le Manoir des Amadies, 1245 Collonge-Bellerive, Switzerland (Home). *Telephone:* (022) 99-61-27 (Office); (022) 52-33-86 (Home).

TEWSON, Sir (Harold) Vincent, Kt., C.B.E., M.C.; British trade union official (retd.); b. 4 Feb. 1898; ed. Bradford; served World War I; Sec. Org. Dept. of TUC 1925-31; Asst. Gen. Sec. 1931-46; Gen. Sec. 1946-60; mem. Econ. Planning Board 1947-60; Vice-Chair. Daily Herald 1946-60; Pres. ICFTU 1951-53; Part-time mem. London Electricity Board 1960-68; mem. Independent Television Authority 1964-69. *Address:* 45 Common View, Letchworth, Hertfordshire, England.

TÉZENAS DU MONTCEL, Robert; French civil servant; b. 22 Sept. 1902; ed. St. Etienne, Univs. of Lyons and Paris; Auditor, Cour des Comptes 1930; Colonial Inspector 1934; Overseas Insp.-Gen. 1948; Dir.-Gen. Ministry for Relations with Associated States 1950; Pres. Admin. Council, Institut d'émission de l'A.O.F. et de Togo 1955; Pres. Overseas Tourist Office 1955; Pres. Cen. Bank of West African States 1959-64; Dir. of Gen. Inspection of Overseas Affairs 1964; Pres. Cie. Financière France-Afrique 1965-72; Pres. Union de Participations de France et d'Outre-mer 1965-75, Hon. Pres. 1976-; Dir. Caisse Centrale de réescompte 1966-72, Soc. industrielle et forestière des allumettes 1967-, Int. Bank of W. Africa 1969-73; Grand Officier de la Légion d'honneur, Croix de guerre, Conseiller Référendaire Hon. à la Cour des Comptes, foreign honours. *Publication:* Ce Monde qui n'est pas le nôtre 1965. *Leisure interest:* Fmr. Pres. "Groupe de Haute Montagne". *Address:* 77 boulevard Général-Koenig, 92200 Neuilly-sur-Seine, France.

THAILAND, King of (*see* Bhumibol Adulyadej).

THAJEB, Sjarif, M.D.; Indonesian diplomatist and politician; b. 7 Aug. 1920, Peureula, Atjeh; s. of Tueku Tjhi Hadji Mohamad Thajeb, Ulubalang of Peureula and Raden Aju Nurhamidah Thajeb; m. Nunijati Hidajat Prawirodiprodjo; one s. three d.; ed. Jakarta Medical Coll., Harvard Medical School, Temple Univ. School of Medicine, Philadelphia, Pa. and Army Staff and Command School, Jakarta; former army doctor; fmr. Lecturer, Children's Div., Dept. of Medicine, Univ. of Indonesia; fmr. Pres. Univ. of Indonesia; fmr. Minister of Higher Educ. and Sciences; fmr. Vice-Chair. of Parl.; Amb. to U.S.A. 1971-74; Minister of Educ. and Culture 1974-77, Acting Minister of Foreign Affairs 1977-78; mem. Exec. Bd. UNESCO 1976-; participant in several int. paediatric confs.; Hon. doctorate, Univ. of Mindanao (Philippines); several medals and decorations. *Publications:* papers and articles on various subjects published in numerous paediatric magazines and journals. *Leisure interests:* music, theatre, golf, bowling. *Address:* c/o Ministry of Foreign Affairs, Jakarta, Indonesia.

THALMANN, Ernesto A., DR. IUR.; Swiss diplomatist; b. 14 Jan. 1914, Bellinzona; s. of Friedrich Thalmann and Clara Good; m. Paula Degen 1943; two s. one d.; ed. Univ. of Zürich; Lawyer, Dist. Court of Zürich 1940; Fed. Dept. of Public Economy 1941; Attaché, Swiss Fed. Political Dept. 1945; Sec. Extraordinary Powers Cttee. and the Cttee. of Foreign Affairs of the Nat. Council 1946; Second Sec. of Legation 1947; Deputy Chief, Press and Information Service, Swiss Fed. Political Dept. 1947; Sec. Swiss del. UN Conf. for Freedom of Press and Information, Geneva 1948; Swiss Legation, Paris 1949, First Sec. 1951; Swiss Legation, Prague 1952; Deputy Chief, Div. of Organization and Admin. Affairs, Swiss Political Dept. 1954-57; Counsellor and Deputy Chief of Mission, Swiss Embassy in U.S.A. 1957-60, Minister-Counsellor 1960-61; Perm. Observer to UN with rank of Amb. 1961-66; Chief, Div. for Int. Orgs., Fed. Political Dept. 1966-71; Special Mission in Jerusalem after Six-Day War, as Personal Rep. of UN Sec.-Gen. 1967; Sec.-Gen. of Fed. Political Dept. and Dir. of Political Affairs 1971-75; Amb. to U.K. 1976-. *Leisure interest:* gardening. *Address:* Embassy of Switzerland, 16-18 Montagu Place, London, W1H 2BQ; 21 Bryanston Square, London, W1H 7FG, England (Home). *Telephone:* 01-723 0701 (Office and Home).

THANI, Sheikh Khalifa bin Hamad al-; Emir of Qatar; b. 1932, Doha; s. of the late Heir Apparent Sheikh Hamad bin Abdullah bin Jassim al-Thani; appointed Heir-Apparent 1948; served successively as Chief of Security Forces, Chief of Civil Courts, Minister of Educ., Finance and Petroleum; Deputy Ruler 1960-72, also Minister of Educ. 1960-70; Prime Minister 1970-72, Minister of Finance 1970-72; Chair. Investment Board for State Reserves 1972; deposed his cousin Sheikh Ahmad and took office as Emir of Qatar Feb. 1972-. *Address:* The Royal Palace, Doha, Qatar.

THANIN KRAIVICHIEN (*see* Kraivichien, Thanin).

THAPA, Surya Bahadur; Nepalese politician; b. 20 March 1928, Muga, East Nepal; s. of Bahadur Thapa; m. 1953; one s. two d.; ed. Allahabad Univ., India; House Speaker, Advisory Assembly to King of Nepal 1958; mem. Upper House of Parl. 1959; Minister of Forest, Agric., Commerce and Industry 1960; Minister of Finance and Econ. Affairs 1962; Vice-Chair. Council of Ministers, Minister of Finance, Econ. Planning, Law and Justice 1963; Vice-Chair. Council of Ministers, Minister of Finance, Law and Gen. Admin. 1964-65; Chair. Council of Ministers, Minister of Palace Affairs, 1965-69; Prime Minister of Nepal May 1979-; mem. Royal Advisory Cttee. 1969-72; arrested 1972, 1975; Tri-Sahkti-Patta 1963, Gorkha Dakshinbahu I 1965; several Nepalese and foreign awards. *Address:* Naxal, Katmandu, Nepal.

THATCHER, Rt. Hon. Margaret Hilda, P.C., M.P., M.A., B.SC.; British barrister and politician; b. 13 Oct. 1925; d. of the late Alfred Roberts; m. Denis Thatcher 1951; one s. one d. (twins); ed. Grantham High School and Somerville Coll., Oxford; Research chemist 1947-51; called to the Bar, Lincoln's Inn 1953; M.P. for Finchley 1959-; Parl. Sec. Ministry of Pensions and Nat. Insurance 1961-64; Chief Opposition Spokesman on Educ. 1969-70; Sec. of State for Educ. and Science 1970-74; Leader of Conservative Party Feb. 1975-; Prime Minister May 1979-; Hon. Bencher, Lincoln's Inn 1975; Conservative. *Address:* 10 Downing Street, London, S.W.1., England.

THAYER, William Paul; American business executive; b. 23 Nov. 1919, Henryetta, Okla.; s. of Paul E. Thayer and Opal Marie Ashenhurst; m. Margery Schwartz 1947; one d.; ed. Wichita High School North, Univs. of Wichita and Kansas; served in U.S. Navy 1941-45; Pilot, TWA 1945-47; Chief Experimental Test Pilot, Chance Vought Corpn. 1948-50; Chief Flight Test, Northrop Aircraft Co. 1950-51; Sales Man. Chance Vought Corpn. 1951, Sales and Service Man. 1952, Vice-Pres. Sales and Service 1954, Vice-Pres. Washington, D.C. Operations 1958, Vice-Pres. and Gen. Man. Vought Aeronautics Div. 1959; Pres. Chance Vought 1963, subsequently Senior Vice-Pres. Ling-Temco-Vought Inc. 1963; Exec. Vice-Pres. Ling-Temco-Vought Inc. 1964; Pres. LTV Aerospace Corpn. 1965; Chair. of Board and Chief Exec. Officer, Ling-Temco-Vought Inc. (name changed to LTV Corpn. 1972) 1970-; Distinguished Flying Cross, Air Medal with Nine Clusters, Distinguished Service Award, etc. *Leisure interests:* flying, hunting and golf. *Address:* The LTV Corporation, P.O. Box 225003, Dallas, Texas 75265; 10200 Hollow Way, Dallas, Texas 75229, U.S.A. (Home). *Telephone:* (214) 746-7848 (Office).

THÉ, Guy Blaudin de (*see* de Thé, Guy Blaudin).

THEOCHARIS, Reghinos D., PH.D.; Cypriot economist; b. 10 Feb. 1929, Larnaca; s. of Demetrios and Florentia Theocharis; m. Madeleine Loumbou 1954; one s. one d.; ed. Graduate School of Economics, Athens, Univ. of Aberdeen, and London School of Economics; Insp. of Commercial Educ., Cyprus 1953-56; at L.S.E. 1956-58; Bank of Greece, Athens 1958-59; Minister of Finance in Cyprus Provisional Govt. March 1959-Aug. 1960; Minister of Finance 1960-62; Gov. of Bank of Cyprus 1962-75; Prof. Graduate School of Econs. and Commercial Sciences, Athens 1975-; Dir. Gen. Center of Planning and Econ. Research (KEPE), Athens 1978-; Hon. Fellow, L.S.E. 1971. *Publication:* On the Stability of the Cournot Solution on the Oligopoly Problem 1960, Early Developments in Mathematical Economics 1961. *Leisure interests:* chess, gardening. *Address:* c/o Anotati Scholi Economikon kai Emborikon Epistimon, Odos Patission 1976, Athens 104, Greece. *Telephone:* Athens 7709997.

THEODORAKIS, Mikis; Greek composer; b. 29 July 1925, Chios (Greek Island); s. of Georges Michel Theodorakis and Aspasia Poulaki; m. Myrto Altinoglou 1953; one s. one d.; ed. secondary and high school, Greece, Athens Conservatoire and Paris Conservatoire; joined resistance against German occupation of Greece 1943; arrested and deported during civil war 1947-52; moved to Paris 1953 and studied under Olivier Messiaen (*q.v.*); first public concert Sonatina (for pianoforte), Paris 1954; set to bouzouki music the poem Epitaphios by Iannis Ritsos 1958-59 and subsequently wrote numerous other successful songs; Ballet music for Antigone (first performed in London by Dame Margot Fonteyn) and Les amants de Teruel; returned to Greece 1961; leader Lambrakis youth movement; mem. of Parl. 1963; arrested for political activities 1967, released April 1970; resigned from Communist Party March 1972; United Left candidate, parliamentary election Nov. 1974; Gold Medal, Moscow Shostakovitch Festival 1957; Corbey Prize, U.S.A. 1957; First Prize Athens Popular Song Festival 1961; Sibelius Award, London 1963. *Works include:* Sinfonia (oratorio) 1944, Love and Death (voice, strings) 1945-48, Assi-Gonia (orchestra) 1945-50, Sextet for Flute 1946, Oedipus Tyrannus (strings) 1946, Greek Carnaval (ballet suite) 1947, First Symphony (orchestra) 1948-50, Five Cretan Songs (chorus, orchestra) 1950, Orpheus and Eurydice (ballet) 1952, Barefoot Battalion (film) 1953, Suite No. 1 (four movements, piano and orchestra) 1954, Poèmes d'Eluard (Cycle 1 and Cycle 2) 1955, Suite No. 2 (chorus, orchestra) 1956, Suite No. 3 (five movements, soprano, chorus, orchestra) 1956, Ill Met by Moonlight (film) 1957, Sonatina No. 1 (violin, piano) 1957, Les amants de Teruel (ballet) 1958, Sonatina No. 2 (violin, piano) 1958, Antigone (ballet) 1958, Epitaphios (song cycle) 1959, Deserters (song cycle) 1958, Epiphania (song cycle) 1959, Honeymoon (film) 1960, Phoenician Women—Euripides (theatre music) 1960, Axion Esti (pop oratorio) 1960, Electra-Euripides (film), Phaedra (film) 1962, The Hostage (song cycle) 1962, The Ballad of the Dead Brother (musical tragedy) 1962, Zorba the Greek (film), The Ballad of Mathausen (song cycle) 1965, Romiossini (song cycle) 1965, Lusistrata—Aristophanes (theatre music) 1966, Romancero Gitano (Lorca) (song cycle) 1967, Sun and Time (song cycle) 1967, Arcadias Nos. 1-10 (song cycles) 1968-69, Canto General (Pablo Neruda) (pop oratorio) 1972, Z (film), Etat de Siège (film) 1973, Ballads (song cycle) 1975. *Publications:* Journals of Resistance 1972, Culture et dimensions politiques 1973. *Address:* 111 rue Notre-Dame-des-Champs, 75006 Paris, France. *Telephone:* 326-1466.

THEODORAKOPOULOS, Ioannis, PH.D.; Greek philosopher; b. 28 Jan. 1900, Sparta; s. of Nikolaos and Panagiota Theodorakopoulos; m. Penelope Kakridis 1935; two d.; ed. Univs. of Athens, Vienna and Heidelberg; Prof. of Philosophy Univ. of Salonika 1925-33, Univ. of Athens 1939-67, Panteios School of Political Science 1950-; Minister of Educ. 1945 and 1966; Chair. Greek Nat. Theatre Cttee.; mem. Acad. of Athens 1960-, Pres. 1963, Sec.-Gen. 1966-; Pres. Admin. Bd. Nat. Theatre of Greece 1974-; cttee. mem. Int. Inst. of Philosophy, Fed. Int. Soc. of Philosophy, Union Acad. Int., Brussels; hon. mem. Goethehaus (Frankfurt); Ed. Archives of Philosophy Theory of Science 1929-41 and Philosophia 1971-; Hon. LL.D. (Univ. of Athens, Ohio). *Publications:* Platons Dialektik des Seins 1927, Theory of Knowledge 1928, Plotins Metaphysik des Seins 1929, Philosophy and Psychology 1929, The Philsophy of Kant 1930, The Philosophy of Heraclitus 1930, Philosophy of Art 1931, Philosophy of Education 1932, The Problem of the Philosophy of History 1932, History and Life 1936, An Introduction to Plato 1940, Plato's Phaedrus 1948, System of Ethics 1948, Studies of Christian and Philosophical Thought 1952, A Philosophical Interpretation of Goethe's Faust 1956, Plato, Plotinus, Origenis 1959, Plato's Theory of Ideas 1960, Dialogue, Dialectic and our Times 1961, The Place of Hellenism in the Contemporary World 1961, Philosophie und Religion 1961, Greece and Europe 1963, Philosophy and Life 1967, Die Hauptprobleme der Platonischen Philosophie 1972, Contemporary Philosophical Currents 1972, Introduction to Philosophy, 4 Vols. 1974-75. *Address:* Akadimia Athinon, Odos Panepistimiou, Athens, Greece. *Telephone:* 611-560.

THEORELL, Hugo, M.D.; Swedish biochemist; b. 6 July 1903, Linköping; s. of Ture Theorell and Armida Bill; m. Margit Alenius 1931; three s.; ed. Royal Caroline Medico-Surgical Inst., Stockholm; Asst. Prof. of Chem. Uppsala Univ. 1932; Prof., Head Biochem. Dept., Nobel Inst. Stockholm 1937-70, Prof. Emer. 1970-; Sec.-Gen. Swedish Society of Physicians and Surgeons 1940-45, Chair. 1946-47, 1957-58, Hon. mem. 1956-; mem. State Research Council for Natural Sciences 1950-54, for Medical Sciences 1958-64, principal research in field of enzymes; Chair. Swedish Chemical Soc. 1947-48, Pres. Int. Union of Biochemistry 1967-73; mem. Royal Swedish Acads. of Science, Engineering Sciences and of Music, Royal Danish Acad. of Sciences and Letters, Norwegian Acad. of Science and Letters, Accad. dei XL, Rome, American Acad. of Arts and Letters, Nat. Acad. of Sciences, American Philosphical Soc.; hon. mem. New York Acad. of Sciences; foreign mem. Royal Society, Polish Acad. of Sciences, Indian Acad. of Sciences, Acad. Royale de Médecine, Belgium, Akad. Leopoldina, Halle, Bayerische Akad. der Wissenschaften, Munich, American Coll. of Physicians; Nobel Prize in Physiology or Medicine 1955; Dr. h.c. (Paris, Philadelphia, Louvain, Brussels, Rio de Janeiro, Kentucky and Michigan); Commdr. Royal Order of the Northern Star (1st Class); Commdr.; Royal Norwegian Order of St. Olaf; Officer, Brazilian Order of Southern Cross; Commdr. Légion d'honneur; Commdr Order of Finnish Lion (1st Class). *Leisure interest:* violin-playing. *Address:* Nobel Institute of Medicine, Stockholm 60, Sweden.

THESIGER, Wilfred, C.B.E., D.S.O., M.A.; British traveller; b. 3 June 1910, Addis Ababa, Ethiopia; s. of the Hon. Wilfred Thesiger, D.S.O., and Kathleen Mary Vigors; ed. Eton and Magdalen Coll., Oxford; explored Danakil country of Abyssinia 1933-34; Sudan Political Service, Darfur and Upper Nile Provinces 1935-39; served in Ethiopia, Syria and Western Desert with Sudan Defence Force and Special Air Service, Second World War; explored the Empty Quarter of Arabia 1945-50; lived with the Madan in the Marshes of Southern Iraq 1950-58; awarded Back Grant, Royal Geographical Soc. 1936, Founders Medal 1948; Lawrence of Arabia Medal, Royal Central Asian Soc. 1955; David Livingstone Medal, Royal Scottish Geographical Soc. 1961; W. H. Heinemann Bequest, Royal Soc. of Literature 1964; Burton Medal, Royal Asiatic Soc. 1966; Hon. D.Litt. (Leicester). *Publications:* Arabian Sands 1958, The Marsh Arabs 1964. *Leisure interests:* photography, travel in remote places. *Address:* 15 Shelley Court, Tite Street, London, S.W.3, England. *Telephone:* 01-352 7213.

THESTRUP, Knud, CAND.JUR.; Danish judge; b. 27 Aug. 1900, Prœstø; s. of Dyrlage P. Thestrup and Ingeborg Madsen; m. Jenny Marie Birgitte Knudsen 1925; one s. two d.; ed. Københavns Universitet; Asst. Judge, Øster and Vester Han 1924, Herning and Hammerum 1929-45; in Frøslev Concentration Camp 1944-45; Acting Judge Western Div. of High Court 1945-47; Judge, Viborg Criminal Court 1947-53, Court at Herning 1953-68; Minister of Justice 1968-72; mem. Folketing (Parl) 1947- (2nd Vice-Chair. 1964), Parl. Finance Cttee. 1950-67, Conservative Party Parl. Group 1956- (Vice-Chair. 1958-68); Conservative party Gen. Council 1957- (Chair. 1965-72); mem. Nordic Council 1952-68, Chair. of the Council's Cttee. of Nine 1959-60, of the Council's Legal Cttee. 1960-68, 1971-; Knight Order of Dannebrog (1st Class), Commdr., Swedish Order of Vasa. *Publications:* Mit Livs Gaagade (The Walking Street of My Life) ed. 1976. *Leisure interests:* reading, politics, history. *Address:* Rosenvaengets Allé 10^3, 2100 Copenhagen, Denmark. *Telephone:* Øbro 4172.

THIELE, Ilse (Neukranz); German politician; b. 4 Nov. 1920, Berlin; ed. secondary school; shorthand typist; mem. Communist Party 1945, SED 1946; founder mem. Democratic Women's League (DFD), first Pres. 1953-; mem. Cen. Cttee. SED 1954; mem. Volkskammer 1954-; mem. Council of State 1971-; Vaterländische Verdienstorden in Gold; Orden "Banner der Arbeit", and other decorations. *Address:* Demokratischer Frauenbund Deutschlands (DFD), 108 Berlin, Clara-Zetkin-Strasse 16, German Democratic Republic.

THIELICKE, Helmut, D.THEOL., DR. THEOL., D.PHIL, D.D.; German theologian; b. 4 Dec. 1908, Wüppertal-Larmen; s. of Reinhard and Lore Thielicke; m. Marie-Guise Herrmann 1937; three s. one d.; ed. Univs. of Breifswald, Marburg, Erlangen and Bonn; Prof. at Heidelberg 1936-40; Parish Priest Ravensburg 1941-42; head of Theological Office of Württemberg Church 1943-45; Prof. of Systematic Theology at Univ. of Tübingen 1945-54; Rector Univ. of Tübingen and Pres. Conf. of Rectors, German Fed. Republic 1951; Prof. of Systematic Theology, Univ. of Hamburg 1954-74; Rector 1960; Hon.

Dr.Theol. (Heidelberg Univ.), Hon. D.D. (Glasgow Univ.), Hon. LL.D. (Waterloo Univ., Canada), Hon. Litt.D. (Hickory, N.C.). *Publications:* Das Verhältnis zwischen dem Ethischen und dem Aesthetischen 1932, Geschichte und Existenz 1935, 1964, Fragen des Christentums an die moderne Welt 1947, Tod und Leben 1946, Theologie der Anfechtung 1949, Der Nihilismus 1950 (Japanese, English trans.), Der Glaube der Christenheit 1947, Zwischen Gott und Satan 1946 (English trans.), Theologische Ethik (English trans.), 4 vols., 1951, 1955, 1958, 1964, Das Gebet, das die Welt umspannt 1945, (English, Dutch, Swedish, Japanese, Norwegian, Finnish, Danish, Afrikaans trans.), Das Leben kann noch einmal beginnen 1956, Das Bilderbuch Gottes 1957, (English, Norwegian, Danish, Swedish, Dutch, Brazilian, Italian, Portuguese and Japanese trans.), Wie die Welt begann 1960 (English, Dutch, Danish. Swedish trans.), Gespräche über Himmel und Erde: Begegnungen in U.S.A. 1964 (U.S., Finnish trans.), Leiden an der Kirche 1965 (U.S., Dutch, Japanese trans.) 1965, Der evangelische Glaube: Grundzüge der Dogmatik Vol. I, Prolegomena 1968, Vol. II, Gotteslehre und Christologie 1973, Vol. III, Theologie des Geistes 1978 (U.S. trans.) Und wenn Gott ware 1970 (English, Dutch, Afrikaans trans.). *Leisure interest:* photography. *Address:* Barkenkoppel 2, 2000 Hamburg 65, Federal Republic of Germany. *Telephone:* 0411-4123-3806.

THIEMELE, Amoakon-Edjampan; Ivory Coast diplomatist; b. 7 April 1941, Abengourou; ed. Centre d'Enseignement supérieur, Abidjan, Univ. of Paris; Admin. in Dept. of Finance 1967; First Counsellor for Econ. and Commercial questions, Ivory Coast del. in Geneva 1968-72; Direction of Int. Co-operation, Ministry of Foreign Affairs 1973; Amb. to Fed. Repub. of Germany 1974-77; Perm. Rep. to the UN 1977-; mem. Board of Dirs. of PDCI-RDA (Parti démocratique de la Côte d'Ivoire); Nat. Orders of Ivory Coast, Morocco, Netherlands, Tunisia and Fed. Repub. of Germany. *Address:* Permanent Mission of the Ivory Coast to the United Nations, 46 East 74th Street, New York, N.Y. 10021, U.S.A.

THIERBACH, Hans-Otto; German banker; b. 30 April 1923; mem. of Management Board, Deutsche Bank, AG; Chair. Supervisory Board Europäisch Asiatische Bank AG; Deputy Chair. Supervisory Board, Europäisch Arabische Bank GmbH, Industriebank von Japan (Deutschland) AG, Deutsche Bank (U.K.) Finance Ltd.; mem. Supervisory Board, Deutsche Solvay-Werke GmbH, Eisen-und Hüttenwerke AG, Deutsche Shell AG, Salzgitter AG, Thyssen Handelsunion AG, Düsseldorf; mem. Man. Board, Banque Commerciale due Maroc, Casablanca, Banque Européenne de Crédit, Brussels, Compagnie Financière Luxembourg, Luxembourg, EDESA Soc. Anonyme Holding, Luxembourg, European Arab Bank (Brussels) S.A., European Arab Holding, Luxembourg, Industrial and Mining Devt. Bank of Iran, Teheran, Iran Overseas Investment Bank Ltd., London, Rothmans Int. Ltd., London; mem. European Advisory Council, Foseco Minsep Ltd., London. *Address:* Deutsche Bank AG, 6000 Frankfurt am Main, Grosse Gallusstrasse 10-14, Federal Republic of Germany.

THIESSEN, Peter Adolf, DR. PHIL. HABIL.; German chemist; b. 6 April 1899; ed. Univs. of Breslau, Freiburg and Göttingen; Dozent, Univ. of Göttingen 1926, Head of its Inst. of Inorganic Chem.; Extraordinary Prof. 1932; Univ. of Frankfurt/Main 1934, Münster 1935, Berlin 1935; Dir. Kaiser-Wilhelm-Inst. of Physical Chem. 1935-45; scientific work in U.S.S.R. 1945-56; Prof. of Physical Chem., Humboldt Univ., Berlin 1956-64, Prof. Emer. 1964-; mem. Deutsche Akad. der Wissenchaften zu Berlin, Dir. of its Inst. of Physical Chem., Emer 1964-; Chair. Research Council of D.D.R. 1957-65, Hon. Chair. 1965-; mem. Exec. Council Deutscher Kulturbund; Hon. mem. Chamber of Technology; non-resident mem. of Acad. of Sciences, U.S.S.R. 1966; Hon. Dr.rer.nat. 1959; U.S.S.R. State Prize (1st Class) 1951, Order of Lenin 1951, Order of Red Banner of Labour (U.S.S.R.) 1956, Nat. Prize (1st Class) 1958, Order "Banner der Arbeit", Vaterländische Verdienstorden in Gold (twice), Distinguished People's Scientist 1964, and other decorations. *Address:* Akademie der Wissenschaften der D.D.R., 108 Berlin, Otto-Nuschke-Strasse 221-2; Rudower Chausse 5, 1199 Berlin-Adlershof, German Democratic Republic. *Telephone:* 67-701-05.

THIEU, Lt.-Gen. Nguyen Van (*see* Nguyen Van Thieu).

THIEULIN, Gustave Léon Pierre; French dairy and meat research scientist; b. 20 July 1903, Emanville; s. of Amand Gustave Thieulin and Leonie Blactot; m. Germaine Pfeiffer 1929; two s.; ed. Ecole Nat. Vétérinaire d'Alfort, Inst. Pasteur, Inst. Nat. Agronomique; on staff of Paris and Seine Veterinary Service 1928-, in charge of Milk Research and Control Lab. 1941-, Deputy Dir. 1946; Deputy Prof. of Production, Hygiene and Control of Milk and Meat, Ecole Nat. Vétérinaire d'Alfort 1932, Inst. Nat. Agronomique 1938; Dir. of Service Vétérinaire Sanitaire (Paris and Seine Dept.) 1961-; Controleur-Gén. Services Vétérinaires, Ministry of Agric. 1965-; Dir. and Editor-in-Chief of Le Lait; Consultant FAO; Consultant, mem., Sec.-Gen. (and fmr. Pres.) Acad. Vétérinaire; mem. Acad. Nat. de Médecine; Higher Council of Public Hygiene; Laureate of the Acad. des Sciences, Acad. Nat. de Médecine, Acad. d'Agriculture and Acad. Vétérinaire; Officier de la Légion d'honneur, Chevalier du Mérite social, Officier du Mérite agricole, Officier des Palmes académiques, Officier de la Santé Publique, Officier du Mérite militaire. *Publications:* Manuel d'analyse du lait, des oeufs et de produits laitiers, La viande (nature, preparation, distribution), and 191 scientific and technical papers. *Leisure interests:* bridge, equitation, tennis. *Address:* 4 Rue Léon Cogniet 75017 Paris; 48 avenue Président Wilson, 75116 Paris; Tourny (27510), France. *Telephone:* 755-8992; 727-5398.

THIMANN, Kenneth Vivian, B.SC., A.R.C.S., D.I.C., PH.D.; American biologist and educationist; b. 5 Aug. 1904, Ashford, Kent, England; s. of Phoebus and Muriel (Harding) Thimann; m. Ann Mary Bateman 1929; three d.; ed. Caterham School, and Imperial Coll., London; Instructor in Biochem., Calif. Inst. of Technology 1930-35; Lecturer, Harvard Univ. 1935-36, Asst. Prof. 1936-39, Assoc. Prof. 1939-46, Prof. of Biology 1946-62, Higgins Prof. of Biology 1962-65; Prof. of Biology and Provost Crown Coll., Univ. of Calif. at Santa Cruz 1965-72, Prof. Emer. 1972-, Chair. Board of Studies in Biology 1973-74; Acting Dean of Natural Sciences 1965-66; Visiting Prof. Univ. of Paris 1954-55, Univ. of Mass. 1974, Univ. of Texas 1976; Pres. Soc. of Gen. Physiologists 1949-50, American Soc. of Plant Physiologists 1950, American Soc. of Naturalists 1955, Botanical Soc. of America 1960, American Inst. of Biological Sciences 1965; Pres. XI Int. Botanical Congress, Seattle Aug. 1969, Pres. VIII Int. Congress on Plant Growth Substances, Tokyo 1973; Frank Hatton Prize for Chemistry 1924, Stephen Hales Prize, American Soc. of Plant Physiologists 1936 and Barnes hon. life membership; Silver Medallist IX Int. Congress on Plant Growth Substances, Lausanne 1976; mem. Nat. Acad. of Sciences (Councillor 1968-71), Philosophical Soc. (Councillor 1972-75), American Acad. of Arts and Sciences; Foreign mem. Royal Soc. (London) 1969, Accad. Nazionale dei Lincei (Rome), Acad. Nat. Roumaine des Arts et Sciences, Akad. Leopoldina, Botanical Socs. of Japan and the Netherlands, Acad. des sciences (Paris); Dr. h.c. (Univs. of Basel and Clermont-Ferrand). *Publications:* Phytohormones (with F. W. Went) 1937, Les Auxines 1955, The Action of Hormones in Plants and Invertebrates (with B. Scharrer and F. Brown) 1948, The Life of Bacteria 1955, 1963 (German trans. 1964), The Natural Plant Hormones 1972, Hormones in the Life of Plants 1977, and about 280 papers in scientific journals; Editor Vitamins and Hormones vols. 1-20, 1943-62, The Hormones vols. 1-5, 1948-63; Editorial Board: Plant Physiology. *Leisure interests:* music, garden. *Address:* Thimann Laboratories, Division of Natural Sciences, University of California, Santa Cruz, Calif. 95064, U.S.A. *Telephone:* 408-429-2418.

THIN, U Tun, PH.D.; Burmese economist; ed. Rangoon, Michigan and Harvard Univs.; Chair. Econ. Dept., Univ. of Rangoon; Dir. Cen. Statistics and Econs. Dept., Ministry of Planning, Burma; Alt. Exec. Dir. IMF for Burma, Ceylon, Japan and Thailand; Asst. Dir. IMF Asian Dept. 1959-66, Deputy Dir. 1966-72, Dir. 1972. *Publication:* Theory of Markets 1970. *Address:* Asian Department, International Monetary Fund, 700 19th Street, N.W., Washington, D.C. 20431, U.S.A. *Telephone:* 202-477-2911.

THIRY, Marcel, D. en D.; Belgian writer; b. 13 March 1897; ed. Univ. of Liège; awarded Prix Verhaeren 1926, Prix triennal de Poésie 1935, Grand Prix Quinquennal de Poésie 1958, Prix Bernheim 1963, Grand Prix Quinquennal de littérature 1965; elected to Belgian Acad. royale de langue et de littérature françaises 1939, Perpetual Sec. 1960-. *Publications:* Poetry: Toi qui pâlis au nom de Vancouver 1924, Plongeantes proues 1925, L'Enfant prodigue 1927, Statue de la fatigue 1934, La mer de la tranquillité 1938, Ages 1950, Poésie 1958, Vie poésie 1961, Le festin d'attente 1963; Prose: Marchands 1937, Echec au temps 1945, La belgique pendant la guerre 1947, Juste 1953, Simul 1957, Comme si 1959, Le grand possible 1960, Le tour du monde en guerre 1965, Nondum Jam non 1966, Le poème et la langue 1967. *Address:* Vaux-sous-Chèvremont, Belgium. *Telephone:* 04-65-09-27.

THO, Le Duc (*see* Le Duc Tho).

THODE, Henry George, C.C., M.B.E., M.SC., PH.D., D.SC., LL.D., F.R.S., F.R.S.C., F.C.I.C.; Canadian chemist and university administrator; b. 10 Sept. 1910, Dundurn, Sask.; s. of Charles H. and Zelma Thode; m. Sadie Alicia Patrick 1935; three s.; ed. Univs. of Saskatchewan and Chicago, and Columbia Univ.; Instructor, Pa. Coll. for Women 1935-36; Research Asst., Columbia Univ. 1936-38; Research Chemist U.S. Rubber Co., N.J. 1938-39; Asst. Prof. of Chem., McMaster

Univ. 1939-42, Assoc. Prof. 1942-44, Prof. of Chem. 1944-; Head Dept. of Chem. 1948-52, Vice-Pres. 1957-61, Dir. of Research 1947-61, Pres. 1961-72, Vice-Chancellor 1961-72; Principal Hamilton Coll., McMaster Univ. 1944-63; Research Chemist, Atomic Energy Project 1943-46, Consultant 1945-51; Consultant Atomic Energy of Canada Ltd. 1951-; Visiting Prof. and Sr. Foreign Scientist, Nat. Science Foundation, Calif. Inst. of Technology 1970; Dir. Hamilton Health Assen. 1948-68, Western New York Nuclear Research Centre 1965-73, Atomic Energy of Canada Ltd. 1966-, Fidelity Mortgage and Savings Corpn. 1968-, Steel Co. of Canada Ltd. 1969-; mem. Royal Soc. of Canada (Pres. Section III 1950-51), Pres. 1959-60; Pres. Chemical Inst. of Canada 1951-52; mem. Nat. Research Council 1955-61, Defence Research Board 1955-61, Board of Govs., Ontario Research Foundation 1956-, Comm. on Atomic Weights, Inorganic Chemistry Div., Int. Union of Pure and Applied Chemistry 1963-, Canadian Nat. Cttee. for Int. Union of Pure and Applied Chem. 1975-78; Hon. LL.D. (Saskatchewan); Hon. D.Sc. from nine univs.; Chemical Inst. of Canada Medal 1957; Royal Soc. of Canada Tory Medal 1959. *Publications:* numerous papers on nuclear chemistry, isotope chemistry, isotope abundances in terrestrial and extraterrestrial material, separation of isotopes, magnetic susceptibilities, electrical discharges in gases, sulphur concentrations and isotope ratios in lunar materials. *Leisure interests:* swimming, farming, golf. *Address:* Nuclear Research Building, McMaster University, 1280 Main Street West, Hamilton, Ont., L8S 4K1, Canada. *Telephone:* 416-525-9140, Ext. 4249 (Office).

THOM, Ronald James; Canadian architect; b. 15 May 1923, Penticton, B.C.; ed. Vancouver School of Art; began career as concert pianist; studied art; taught in Vancouver School of Art and at School of Architecture, Univ. of B.C.; Partner, Thompson, Berwick, Pratt, Vancouver 1958; R. J. Thom Architects, Toronto 1963-; has lectured at univs. throughout Canada; Fellow, Royal Architectural Inst. of Canada; mem. Royal Canadian Acad. of Arts, Ontario Assen. of Architects, Architectural Inst. of B.C.; Hon. LL.D. (Trent Univ.) 1971, Hon. D.Eng. (Nova Scotia Technical Coll.) 1973. *Publications:* many articles on architecture in arts journals. *Address:* The Thom Partnership, 47 Colborne Street, Toronto, Ontario (Office); 95 Meadowcliffe Drive, Scarborough, Ontario, Canada (Home).

THOMAS, Baron (Life Peer), cr. 1971, of Remenham in the Royal County of Berkshire; **(William) Miles (Webster) Thomas,** Kt., D.F.C.; British industrialist; b. 2 March 1897, Wrexham, N. Wales; s. of William Henry Thomas and Mary Elizabeth Webster; m. Hylda Nora Church 1924; one s. one d.; ed. Bromsgrove School; served armoured car squadrons, R.F.C. and R.A.F., First World War; Man. Dir. Wolseley Motors Ltd. 1936-40; Vice-Chair. Morris Motors Ltd., Wolseley Motors Ltd., Morris Commercial Cars Ltd., M.G. Car Co. Ltd., Riley Motor Co. Ltd., Morris Industries (Exports) Ltd., S.U. Carburettor Co. Ltd., Mechanisations and Aero Ltd. 1940-47; Pres. Motor Trades Assen. 1934; Chair. Cruiser Tank Production Group; mem. Advisory Panel on Tank Production 1941-45; Chair. British Tank Engine Mission to U.S. 1942; Pres. Soc. Motor Manufacturers and Traders 1947; Dir. Colonial Devt. Corpn. 1947-51, Deritend Stamping Co. 1962-74; Chair. S. Rhodesian Govt. Devt. Comm. 1947-50; Deputy Chair. BOAC 1948-49, Chair. 1949-56; Pres. IATA 1951-52; Chair. Monsanto Chemicals Ltd. 1956-63, Dir. Monsanto Europe Ltd. 1963-65; Chair. British Productivity Council 1959, Devt. Corpn. for Wales 1958-67; Chair. Agricultural Central Trading Ltd. 1962-67, Nat. Savings Movement 1965-70, Pres. 1965-72. *Publication:* Out on a Wing (autobiography) 1964. *Leisure interests:* gardening, photography. *Address:* Remenham Court, Henley-on-Thames, Oxfordshire; 7 Cleveland Row, St. James's, London, SW1A 1DB, England. *Telephone:* Henley 5400; 01-930 1524.

THOMAS, André Jean, D. EN MED., D. ÈS SC.; French biologist; b. 4 April 1905, Besançon; s. of Albert Thomas and Marie-Louise Sulter; m. Suzanne Anne-Marie Dautrement 1940; one s. two d.; ed. Lycée de Besançon and Faculté de Médecine, Paris; Prof., Faculté des Sciences, Paris 1946-50, Titular Prof. of Cellular Biology 1951-, Dir. Centre for Cellular Physiology 1955-; Deputy Dir. Ecole des Hautes Etudes 1942-45, Dir. 1946-; mem. Inst. Pasteur 1929-68, Head of Cellular Biology Science 1951-68; mem. Acad. des Sciences (Inst. de France), Acad. nationale de Médecine, and many other scientific socs.; Hon. Fellow, Int. Coll. of Surgeons; Officier, Légion d'honneur, Ordre de Léopold (Belgium); Médaille de la Résistance. *Address:* Université de Paris VI, Centre de Physiologie cellulaire, 7 quai Saint-Bernard, 75005 Paris (Office); 8 rue Pierre et Marie Curie, 75005 Paris, France (Home). *Telephone:* 336-25-25, Ext. 34-20 (Office); 326-59-04 (Home).

THOMAS, Franklin; American lawyer and foundation official; b. 27 May, 1934, Brooklyn; s. of James Thomas and Viola Atherley; m. (divorced). served with U.S.A.F. 1956-60; called to bar, N.Y. 1964; Attorney, Housing and Home finance Agency, New York 1963-64; Asst. U.S. Attorney for Southern District, New York 1964-65; Deputy Police Commr. for legal affairs, New York 1965-67; Dir. Lincoln Centre, Urban Inst., Women's Action Alliance and CBS Inc., Aluminium Co., Allied Stores Corpn., Cummings Engine Co., CITICORP; Pres. Ford Foundation Jan. 1979-, also Trustee; City Club of New York Award 1973. *Address:* Ford Foundation, 320 East 43rd Street, New York, N.Y. 10017, U.S.A. (Office). *Telephone:* 212-573-4700.

THOMAS, Rt. Hon. George (*see* Thomas, Rt. Hon. Thomas George).

THOMAS, Henri, L. ès L.; French writer and poet; b. 7 Dec. 1912, Anglemont (Vosges); s. of Joseph and Mathilde Thomas; m. Jacqueline Thomas 1957; one d.; ed. Lycée Henri IV, Paris and Strasbourg Univ.; Teacher till 1939; Forces 1940-47; Programme Asst. B.B.C. French Section 1947-58; Lecturer in French, Brandeis Univ. Mass., U.S.A. 1956-60; in charge German Dept. Gallimard's Publishing House 1960-; Prix Sainte-Beuve 1956, Prix Médicis 1960; Prix Fémina 1961; Prix Valéry Larbaud 1970; Chevalier, Légion d'honneur. *Publications:* Verse: Travaux d'aveugle, signe de vie, Le monde absent, Nul désordre; Novels: Le seau à charbon, Le précepteur, La vie ensemble, Les déserteurs, Le porte-à-faux, La nuit de Londres, La dernière année, John Perkins (Prix Médicis 1960), Le promontoire (Prix Fémina 1961), La chasse aux trésors, Le parjure, Sous le lien du temps, La relique, Tristán, Le dépossédé; Short stories: La cible, Histoire de Pierrot, Sainte Jeunesse; Trans.: Goethe, Stifter, Iünger, Shakespeare. *Address:* Editions Gallimard, 5 rue Sébastien-Bottin, 75007 Paris; 14 rue Paul Fort, 75014 Paris, France.

THOMAS, Ivor Bulmer-, M.A.; British writer and politician; b. 30 Nov. 1905, Cwmbran, Mon.; s. of Alfred Ernest and Zipporah Thomas; m. 1st Dilys Llewelyn Jones 1932 (died 1938), one s.; 2nd Margaret Joan Bulmer 1940, one s. two d.; ed. St. John's and Magdalen Colls., Oxford; Editorial staff of The Times 1930-37; Chief Leader writer News Chronicle 1937-39, on staff Daily Telegraph 1952-56; served R. Fusiliers 1939-40, Royal Norfolk Regt. 1940-42, 1945; Labour M.P. for Keighley 1942-48, Independent, later Cons. 1948-50; Parl. Sec. Ministry of Civil Aviation 1945-46; Parl. Under-Sec. of State Colonial Office 1946-47; mem. Gen. Synod of Church of England; Chair. Exec. Cttee. Historic Churches Preservation Trust 1952-56; Sec. Ancient Monuments Soc. 1957-75, Chair. 1975-; Hon. Dir. Friends of Friendless Churches 1957-; Convener British Group Inst. Int. des Civilisations Différentes 1959-; Joint Hon. Sec. Friends of St. John's 1962-75 (Hon. Treas. 1969-75); Chair. Redundant Churches Fund 1969-76; Fellow, Soc. of Antiquaries of London 1970-. *Publications:* Coal in the New Era 1934, Gladstone of Hawarden 1936, Top Sawyer 1938, Greek Mathematics 1939-42, The Problem of Italy 1946, The Socialist Tragedy 1949, The Party System in Great Britain 1953, Growth of the British Party System 1965, Cío che è originale e cío che è derivato negli Elementi di Euclide 1973, St. Paul: Teacher and Traveller (editor) 1975, East Shefford Church 1978. *Leisure interest:* athletics. *Address:* 12 Edwardes Square, London, W8 6HG, England. *Telephone:* 01-602 6267.

THOMAS, Jean; French educationist; b. 10 Dec. 1900, Marseille; s. of Louis Augustin Thomas and Valentine Abric; ed. Ecole Normale Supérieure; Répétiteur Ecole Normale Supérieure; Prof. Poitiers and Lyon Univs.; Chef de Service, Ministry of Nat. Educ.; Dir. Cultural Activities UNESCO 1946-54; Asst. Dir. Gen. 1954-60; Insp.-Gén. de l'Instruction Publique; Pres. Conseil du Bureau Int. d'éducation; Pres. comm. nat. pour l'éducation, la science et la culture; Commdr. Légion d'honneur, Médaille de la Résistance, Commdr. des Palmes académiques, Ordre des Arts et Lettres. *Publications include:* Le romantisme contemporain, L'Humanisme de Diderot, Sainte-Beuve et l'Ecole Normale, Le vrai système de Dom Deschamps, UNESCO, Education en Europe: Tendances actuelles et problèmes communs, Des maîtres pour l'école de demain, Les grands problèmes de l'éducation dans le monde. *Address:* 8 bis boulevard de Courcelles, 75017 Paris, France. *Telephone:* 622-34-49.

THOMAS, Lewis, B.A., M.S., M.D.; American cancer research administrator and professor; b. 25 Nov. 1913, Flushing, N.Y.; s. of late Joseph S. Thomas and late Grace Emma Peck; m. Beryl Dawson 1940; three d.; ed. Princeton Univ., Harvard Medical School, Yale Medical School; Prof. of Medicine, Tulane Univ. School of Medicine 1949-50; Prof. of Paediatrics and Internal Medicine (American Legion Heart Research Prof.), Univ. of Minn. Medical School 1950-54; Prof. and Chair., Dept. of Pathology, New York Univ. Medical School 1954-58, Prof. and Chair., Dept. of

Medicine 1958-66, Dean of Medical School 1966-69; Prof. and Chair., Dept. of Pathology, Yale Medical School 1969-73, Dean of Medical School 1972-73; Prof. of Medicine and Pathology, Cornell Univ. Medical Coll. 1973-; Pres. and Chief Exec. Officer, Memorial Sloan-Kettering Cancer Center 1973-; Prof. of Biology, Graduate School Medical Sciences 1973-, Dir. 1974-; Adjunct Prof. Rockefeller Univ. 1975-; mem. Scientific Advisory Cttee., Inst. for Cancer Research 1974-, and numerous advisory bds. and cttees.; mem. Nat. Acad. of Sciences, New York Acad. Sciences, American Public Health Assn., Int. Acad. Pathology, American Assn. of Univ. Profs. etc.; Dir.-at-Large American Cancer Soc. 1974-; Overseer, Harvard Univ.; Trustee, Rockefeller Univ., Draper Lab., John Simon Guggenheim Memorial Foundation; Nat. Book Award in Arts and Letters 1974, Modern Medicine's Award for Distinguished Achievement 1975. *Publication:* The Lives of a Cell 1974. *Leisure interests:* music, literature, science. *Address:* Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, N.Y. 10021 (Office); 150 East 69th Street, New York, N.Y. 10021, U.S.A. (Home).

THOMAS, Llewellyn Hilleth, PH.D., D.SC.; American professor emeritus of theoretical physics; b. 21 Oct. 1903, London, England; s. of Charles James Thomas and Winifred May Thomas fmrly. Lewis; m. Naomi Estelle (Frech) Thomas 1933; one s. two d.; ed. Merchant Taylors School, Trinity Coll. Cambridge and Inst. of Theoretical Physics, Copenhagen; Prof. of Physics, Ohio State Univ. 1929-43, 1945-46; Physicist and Ballistician, Ballistic Research Lab., Aberdeen Proving Ground, Md. 1943-45; mem. of Senior Staff, Watson Scientific Computing Lab., and Prof. of Physics, Columbia Univ. New York 1946-68, Prof. Emer, 1976-; Univ. Prof. N.C. State Univ., Raleigh 1968-76, Emer 1976-; mem. Nat. Acad. of Sciences 1958; Hon. D.Sc. (Cantab.) 1965; Smith Prize 1925. *Publications:* over 100 papers in scientific journals. *Leisure interests:* mountain-walking, chess. *Address:* 3012 Wycliff Road, Raleigh, N.C. 27607, U.S.A. *Telephone:* 919-737-2512 (Office); 919-781-2222 (Home).

THOMAS, Orlando Pendleton, B.S., M.B.A.; American rubber company executive; b. 14 June 1914, Forney, Tex.; s. of William Pendleton and Lottye Trail; three s.; ed. East Texas State Coll., Univ. of Texas, Wharton School of Univ. of Pennsylvania, New York Univ., and Harvard School of Business Admin; U.S. Navy, World War II; Sinclair Oil Corpn. 1945-69, Asst. Comptroller 1954-57, Vice-Pres. 1957-60, Dir. 1960-, Exec. Vice-Pres. 1960-64, Pres. 1964-69, Chief Exec. Officer 1968-69; on merger of Sinclair Oil Corpn. into Atlantic Richfield Co. March 1969, became Chair. Exec. Cttee.; Chair. B. F. Goodrich Co. 1971-; Dir. Armco Steel Corpn., Superior Oil Corpn., UN Assoc. of U.S.A. (mem. Econ. Policy Council), Rubber Mfrs. Assn.; Hon. Dir. American Petroleum Inst.; mem. Policy Cttee. Business Roundtable; mem. Board of Trustees, Mutual Life Insurance Co., New York; Hon. LL.D. (East Texas State Univ.). *Leisure interest:* golf. *Address:* B. F. Goodrich Co., 5000 South Main Street, Akron, Ohio 44318, U.S.A.

THOMAS, Philippe Henri André; French business executive; b. 25 Feb. 1918, Paris; m.; six c.; ed. École Polytechnique; Insp. of Finances 1946; Private Sec. to Minister of Industry and Commerce 1951; joined Pechiney 1952, Head, Thermo-Electric Dept. 1955, Dir. in charge of Dept. of Metals and Uses of Atomic Energy 1962, Asst. Dir.-Gen. 1965, Dir.-Gen. 1968, Vice-Pres. 1971; Vice-Pres. Pechiney Ugine Kuhlmann 1972, Pres. 1975-; Dir. Société Générale, Crédit Nat., Crédit Commercial de France, Cie. Financière de Paris et des Pays-Bas, Cie. Française des Pétroles, Rhône-Poulenc; Chevalier, Légion d'honneur; Croix de guerre. *Address:* Pechiney Ugine Kuhlmann, 23 rue Balzac, 75008 Paris, France.

THOMAS, Richard Lee, M.B.A.; American banker; b. 11 Jan. 1931, Marion, Ohio; s. of Marvin C. and Irene (Harruff) Thomas; m. Helen Moore 1953; two s. one d.; ed. Kenyon Coll., Univ. of Copenhagen, Denmark, Harvard Business School; served army 1954-56; joined First Nat. Bank of Chicago 1958, Vice-Pres. 1963, Sr. Vice-Pres. 1969, Exec. Vice-Pres. 1972, Dir. 1973, Vice-Chair. Board 1973, Pres. 1975-; Dir. CNA Financial Corpn. 1970, Consolidated Foods Corpn. 1976; Trustee Northwestern Univ., Rush-Presbyterian-St. Luke's Medical Centre 1971, Glenwood School for Boys 1971, Kenyon Coll. 1971, The United Way of Metropolitan Chicago 1973, Village of Kenilworth 1975, Chicago Council on Foreign Relations 1975, Orchestral Assn. 1976; Hon. LL.D. (Kenyon Coll.). *Leisure interests:* golf, tennis, various outdoor sports, travel, reading. *Address:* First National Bank of Chicago, One First National Plaza, Chicago, Ill. 60670, U.S.A. *Telephone:* (312) 732-6480 (Office).

THOMAS, Ronald Stuart; Welsh (retd.) clergyman and poet; b. Caerdydd 1913; ed. Univ. of Wales and St. Michael's Coll., Llandaff; ordained Deacon 1936, Priest 1937; Curate of Chirk 1936-40, of Hammer 1940-42; Rector of Manafon 1942-54; Vicar of St. Michael's Eglwysfach 1954-68, of St. Hywyn, Aberdaron 1968-; Heinemann Award of Royal Soc. of Literature 1956 for Song at the Year's Turning; Sovereign's Gold Medal for Poetry 1964. *Publications:* Stones of the Field (privately published) 1947, Song at the Year's Turning 1955, Poetry for Supper 1958, Tares 1961, The Bread of Truth 1963, Pieta 1966, Not That He Brought Flowers 1968, H'm 1972, Selected Poems 1946-1968 1974, Laboratories of the Spirit 1975. *Address:* Sam-Y-Plas, Y Rhiw, Pwllheli, Wales.

THOMAS, Rt. Hon. (Thomas) George, P.C., M.P.; British politician; b. 29 Jan. 1909; ed. Tonypandy Grammar School and Univ. Coll. of Southampton; M.P. for Central Cardiff 1945-50, W. Cardiff 1950-(Labour until 1976); Parl. Under-Sec. of State, Home Office 1964-66; Minister of State, Welsh Office 1966-67, Commonwealth Office 1967-68; Sec. of State for Wales 1968-70; Deputy Speaker, House of Commons, Chair. Ways and Means Cttee. 1974-76, Speaker Feb. 1976-; Vice-Pres. Methodist Conf. 1959-60; Hon. LL.D. (Wales) 1977, (Southampton) 1977, (Birmingham) 1978. *Publication:* The Christian Heritage in Politics. *Address:* Speaker's House, London, S.W.1, England; Tilbury, 173 King George V Drive East, Heath, Cardiff, Glamorgan, Wales (Home).

THOMAS, Tracy Yerkes, A.B., M.A., PH.D.; American mathematician; b. 8 Jan. 1899, Alton, Ill.; s. of Tracy Reeve Thomas and Blanche Ailene Yerkes; m. Virginia Rowland 1928; one s.; ed. Rice Inst., and Princeton Univ.; Nat. Research Fellow in Physics, Univ. of Chicago 1923-24, in Math., Zürich Univ. 1924-25, Harvard and Princeton Univs. 1925-26; Asst. Prof. of Maths. Princeton Univ. 1926-31, Assoc. Prof. 1931-38; Prof. of Maths. Univ. of Calif. 1938-44; Prof. of Math. Ind. Univ. 1944-69, Chair. of Dept. 1944-54, Head Graduate Inst. for Applied Math. 1950-54, Dir. Graduate Inst. for Math. and Mechanics 1954-56, Distinguished Service Prof. of Math. 1956-59; Faculty Research Lecturer Univ. of Calif. at Los Angeles 1943; Visiting Prof. Univ. of Calif., San Diego, at La Jolla 1962-63, at Los Angeles 1965-66, 1967-68; Prof. in Residence, Univ. of Calif., Los Angeles 1969-70; Fellow Indiana Acad. of Sciences, Royal Astronomical Soc.; mem. Soc. Eng. Science, American Math. Soc., Math. Assn. of America, Nat. Acad. of Sciences; first Distinguished Alumni Award, Rice Univ. 1976. *Publications include:* The Elementary Theory of Tensors 1931, The Differential Invariants of Generalized Spaces 1934, Principles of College Algebra (with M. S. Knebleman) 1942, Essentials of Plane and Spherical Trigonometry (with C. Bell) 1943, Concepts from Tensor Analysis and Differential Geometry 1961, Plastic Flow and Fracture in Solids 1961, and papers on relativity theory, cosmology, plasticity, fracture, gas dynamics, shock waves, tensors, differential geometry and extended theory of conditions for discontinuities over moving surfaces. *Address:* 249 N. Glenroy Avenue, Los Angeles, California 90049, U.S.A. *Telephone:* 213-472-6562.

THOMAZ, Admiral Américo de Deus Rodrigues; Portuguese naval officer and politician; b. 19 Nov. 1894, Lisbon; m. Gertrudes Ribeiro da Costa Rodrigues Thomaz 1922; ed. Naval Coll., Lisbon; midshipman 1914; served on convoy duty to Great Britain and France during the World War I in the cruiser Pedro Nunes and the destroyers Douro and Tejo; 2nd-Lieut. 1918; transferred to Hydrographic Board 1919; served on board the hydrographic vessel Cinco de Outubro 1920-36; 1st-Lieut. 1922, Lieut.-Commdr. 1931; Sec. Ministry of Marine 1936-44, in charge of hydrographic survey of Portuguese coast; Commdr. 1939; Pres. Nat. Mercantile Marine Board 1940-44; Capt. 1941; Minister of Marine 1944-58; Rear-Admiral 1951; Admiral 1970; mem. Int. Council for the Exploration of the Sea, Fisheries Comm. and numerous other Portuguese and int. nautical, hydrographical and meteorological cttees.; Pres. of Portugal 1958-74; in exile following coup April 1974; living in Brazil until return in July 1978.

THOMPSON, Sir Edward Hugh Dudley, Kt., M.B.E., T.D.; British company executive; b. 12 May 1907; s. of Neale Dudley Thompson and Mary Gwendoline Scutt; m. 1st Ruth Monica Thompson; two s.; m. 2nd Doreen Maud Thompson; one s. one d.; ed. Uppingham and Lincoln Coll., Oxford; Solicitor 1931-36; Asst. Man. Dir. Ind. Coope and Allsopp Ltd. 1936-39, Man. Dir. 1939; Army Service 1939-45; Man. Dir. Ind Coope Ltd. 1945-55, Chair. 1955-62; Chair. Brewers' Soc. 1959-61; Dir. Allied Breweries Ltd. 1961-78 (Chair. and Chief Exec. 1961-68); High Sheriff of Derbyshire 1964, Deputy Lieut. of Derbyshire 1978; mem. Council Nottingham Univ. 1968. *Leisure interest:* farming. *Address:* Culland Hall, Brailsford, Derbyshire, England. *Telephone:* Brailsford 247.

THOMPSON, Edward K(ramer), A.B., D.HUM.LITT.; American editor; b. 17 Sept. 1907; ed. Univ. of North Dakota; Ed. Foster Co.

Independent, Carrington, N.D. 1927; City Ed. Fargo (N.D.) Morning Forum 1927; Picture Ed., Asst. News Ed. Milwaukee Journal 1927-37; Assoc. Ed. Life 1937-42, Asst. Man. Ed. 1945-49, Man. Ed., later Ed. 1949-67; Ed. Smithsonian Inst. magazine 1969-; served with U.S. Armed Forces 1942-45; decorated Legion of Merit, Hon. O.B.E., Joseph Henry Medal, Smithsonian Inst. 1973. *Address:* Smithsonian Institution, Washington, D.C. 20560; 2934 Macomb Street, N.W., Washington, D.C. 20008, U.S.A. (Home).

THOMPSON, Sir Harold (Warris), Kt., C.B.E., F.R.S.; British chemist; b. 15 Feb. 1908; ed. King Edward VII School, Sheffield, Trinity Coll., Oxford, and Kaiser Wilhelm Inst. for Physical Chemistry, Berlin-Dahlem; Reader in Spectroscopy, Oxford Univ. 1954-64, Prof. of Physical Chem. 1964-75; mem. Council Royal Soc. 1959-60, 1961-64, 1965-71, Vice-Pres. 1963-64, 1965-71, Foreign Sec. 1965-71; Chair. British Nat. Cttee. for Chem. 1960-66; mem. Bureau Int. Union of Pure and Applied Chem. (IUPAC) 1963-71, Vice-Pres. 1971-73, Pres. 1973-75; Pres. Int. Council of Scientific Unions (ICSU) 1963-66; mem. U.K. UNESCO Comm.; Chair. Great Britain/China Cttee. 1972-; Chair. Football Assn.; Ed. Spectrochimica Acta 1957-, Advances in Spectroscopy Vol. I 1959, Vol. II 1961; Hon. mem. Japan Chem. Soc., Leopoldina Acad. of Science; Hon. Counsellor, Spanish Higher Council of Scientific Research; Hon. Fellow of St. John's Coll., and Trinity Coll. Oxford; Chevalier, Légion d'honneur (France), Grand Service Cross (Fed. Repub. of Germany), Aztec Eagle (Mexico), and several other awards. *Address:* 33 Linton Road, Oxford, England (Home). *Telephone:* Oxford 58925.

THOMPSON, Homer Armstrong, B.A., M.A., PH.D.; Canadian-born American classical archaeologist; b. 7 Sept. 1906, Devlin, Ont.; s. of William J. and Gertrude Thompson; m. Dorothy Burr 1933; three d.; ed. Univs. of British Columbia and Michigan; Staff mem., American School of Classical Studies excavations of the Athenian Agora 1929-, Field Dir. 1945-67; Prof. of Classical Archaeology, Toronto Univ. 1933-47, Head of Dept. of Art and Archaeology 1946-47; Prof., Princeton Inst. for Advanced Study 1947-77, Emer. 1977-; Asst. Dir., Curator of Classical Collection, Royal Ont. Museum, Toronto 1933-47; George Eastman Visiting Prof., Oxford Univ. 1959-60; Geddes-Harrower Prof. of Greek Archaeology and Art, Aberdeen Univ. 1964-65; Distinguished Visitor Australian-American Educ. Foundation; Corresp. Fellow British Acad.; Hon. mem. German Archaeological Inst., Soc. for Promotion of Hellenic Studies, Greek Archaeological Soc., Royal Soc. of Arts and Letters (Gothenburg), Acad. of Sciences (Heidelberg), Royal Swedish Acad., Soc. of Antiquaries (London); mem. American Philosophical Soc., American Acad. of Arts and Sciences; Hon. LL.D. (Toronto and British Columbia); Litt.D. (Michigan); L.H.D. (Dartmouth Coll., Univs. of Athens, Lyons, Freiburg, New York, Wooster Coll.); Commdr. Order of the Phoenix (Greece); Gold Medal Archaeological Inst. of America 1972; Drexel Medal, Univ. of Pa. 1978. *Publications:* studies in topography, architecture, sculpture and ceramics of ancient Athens (chiefly in Hesperia) 1934-; The Agora of Athens (with R. E. Wycherley) 1972. *Leisure interests:* gardening, mountaineering. *Address:* Institute for Advanced Study, Princeton, N.J. (Office); 134 Mercer Street, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 609-924-4400.

THOMPSON, James Burleigh, Jr., PH.D.; American geologist; b. 20 Nov. 1921, Calais, Maine; s. of James B. and Edith (Peabody) Thompson; m. Eleanora Mairs 1957; one s.; ed. Dartmouth Coll. and Mass. Inst. of Technology; Instructor in Geology, Dartmouth Coll. 1942-46; Research Asst. in Geology, M.I.T. 1946-47; Instructor in Petrology, Harvard Univ. 1949-50, Asst. Prof. in Petrography 1950-55, Assoc. Prof. of Mineralogy 1955-60, Prof. 1960-; Sherman Fairfield Distinguished Scholar, Calif. Inst. of Tech. 1976; mem. American Assn. for the Advancement of Science, American Geophysical Union, American Acad. of Arts and Sciences, Nat. Acad. of Sciences, Geochemical Soc. (Pres. 1968-69); Fellow, Geological Soc. of America, Mineralogical Soc. of America (Pres. 1967-68); Faculty Fellowship, Fund for Advancement of Educ. (Ford Foundation) 1952-53, Guggenheim Fellowship 1963; Hon. D.Sc. (Dartmouth) 1975; Arthur L. Day Medal, Geological Soc. of America 1964. *Publications:* articles on metamorphic petrology and geology of the Northern Appalachians in professional journals. *Leisure interests:* skiing, mountain climbing. *Address:* Department of Geological Sciences, Harvard University, Cambridge, Mass. 02138 (Office); 20 Richmond Road, Belmont, Mass., U.S.A. (Home). *Telephone:* 617-484-9525.

THOMPSON, James R., LL.D.; American lawyer and politician; b. 1936, Chicago, Ill.; s. of Dr. J. Robert Thompson and Agnes Thompson; m. Jayne Carr 1976; one d.; ed. Univ. of Illinois, Washington Univ., St. Louis, Mo., Northwestern Univ. Law School; admitted to Illinois Bar 1959; Prosecutor, State Attorney's Office, Cook County, Ill. 1959-64; Assoc. Prof. North Western Univ. Law School, Ill. 1964-69; Chief, Dept. of Law Enforcement and Public Protection, Office of Ill. Attorney-Gen. 1969-70, First Asst. U.S. Attorney 1970-71, U.S. Attorney for Northern Dist. of Ill. 1971-75; Counsel, Winston and Strong law firm, Chicago 1975-77; Gov. of Ill. Jan. 1977-; Hon. LL.D. (Lincoln Coll.) 1975; Republican. *Publications:* Co-author of four textbooks incl. Cases and Comments on Criminal Procedure; numerous articles in professional journals. *Address:* Office of the Governor, State Capitol, Springfield, Ill. 62706, U.S.A.

THOMPSON, J(ay) Lee; British writer, stage actor: film director and producer; b. 1914, Perth, Scotland; m. Lucille Steiner 1967; one s. one d.; ed. Dover Coll.; stage actor and playwright 1931-34; film scriptwriter 1934-50; film director 1950-; living in U.S.A. 1959-; Cannes Film Festival Special Award for Yield to the Night; Silver Bear for Best Picture, Berlin Film Festival, Int. Critics Award, Golden Globe for Best Picture for Woman in ■ Dressing-Gown; Int. Critics Award for Tiger Bay; Int. Critics Award for Ice Cold in Alex; Int. Critics Award for I Aim at the Stars; numerous awards for The Guns of Navarone; San Sebastian Film Award for Return from the Ashes. *Films directed include:* Yield to the Night 1956, Woman in ■ Dressing-Gown 1957, Ice Cold in Alex (U.S. title Desert Attack) 1958, Tiger Bay 1959, Northwest Frontier 1959, I Aim at the Stars 1960, The Guns of Navarone 1961, Cape Fear 1961, Taras Bulba 1962, Kings of the Sun 1963, What a Way to Go 1964, John Goldfarb, Please Come Home! 1965, Return from the Ashes 1965, Mackenna's Gold 1968, Before Winter Comes 1968, The Chairman 1969, Country Dance (U.S. title Brotherly Love) 1970, Conquest of the Planet of the Apes 1972, The Reincarnation of Peter Proud 1975, St. Ives 1976, The White Buffalo 1976, The Greek Tycoon 1978, The Passage 1978. *Publications.* plays: Murder Happens, Double Error, Murder Without Crime, The Human Touch, Getting Away with Murder. *Address:* 21923, Pacific Coast Highway, Malibu, Calif. 90625, U.S.A. *Telephone:* (213) 456-6922.

THOMPSON, Robert Henry Stewart, C.B.E., M.A., D.SC., D.M., B.CH., F.R.C.P., F.R.C.PATH., F.R.S.; British chemical pathologist; b. 2 Feb. 1912, Croydon; s. of Dr. Joseph H. Thompson and Mary E. Rutherford; m. Inge V. A. Gebert 1938; one s. two d.; ed. Trinity Coll., Oxford, and Guy's Hospital Medical School, London; Adrian Stokes Travelling Fellowship to Hospital of Rockefeller Inst. for Medical Research, New York 1937-38, Gillson Research Scholar in Pathology, Soc. of Apothecaries, London 1938; Fellow and Tutor, Univ. Coll., Oxford 1938-47; Demonstrator in Biochemistry, Oxford Univ. 1938-47; served ■■ Major in R.A.M.C. 1944-46; Dean of Medical School, Oxford 1946-47; Prof. of Chemical Pathology, Guy's Hospital Medical School, Univ. of London, and Consulting Chemical Pathologist to Guy's Hospital 1947-65; Courtauld Prof. of Biochemistry, Middlesex Hospital Medical School, Univ. of London 1965-75; Trustee, Wellcome Trust 1963-; awarded Radcliffe Prize for Medical Research, Oxford 1943; mem. Biochemical Society; Fellow, Royal Society of Medicine; Sec.-Gen. Int. Union of Biochemistry 1955-65; mem. British Nat. Cttee. for Biochemistry 1967-70. *Publications:* Biochemistry in Relation to Medicine (with C. W. Carter) 1953, Biochemical Disorders in Human Disease (with I. D. P. Wootton) 1970; numerous papers in medical and scientific journals. *Leisure interest:* gardening. *Address:* 1 Church Way, Hurst Green, Oxted, Surrey, England. *Telephone:* Oxted 3526.

THOMPSON, Robert Norman, B.SC., D.C., LL.D.; Canadian politician and educator; b. 17 May 1914, Duluth, Minn.; s. of Theodore Olaf Thompson and Hannah Olafson Thompson; m. Hazel Maxine Kurth 1939; five s. three d.; ed. Provincial Normal School, Calgary, Garbutt's Business Coll., Calgary, Bob Jones Univ., Greenville, Univ. of British Columbia, Palmer Coll. of Chiropractic and Wheaton Coll.; Public school teacher, Alberta 1934-36; chiropractor 1939-40; service in Second World War, R.C.A.F. (Flight Lieut.) 1940-43; Colonel and Officer Commanding Imperial Ethiopian Air Force Acad. 1943-44; Asst. Headmaster Haile Selassie Secondary School, Ethiopia 1944-46; Dir. of Educ. Kaffa Province, Ethiopia 1946; Dir. of Provincial Educ. Ministry of Educ., Ethiopia 1947-51; Headmaster Haile Selassie Secondary School, Addis Ababa 1947-51; diplomatic missions for Ethiopian Govt. 1946-58; Educ. Dir. Sudan Interior Mission 1952-58; Pres. Social Credit Assn. Canada 1960-61; Nat. Leader, Social Credit Party 1961-67; Conservative M.P. 1968-72; Prof. of Political Science, Waterloo Lutheran Univ. 1968-72; Nat. Co-ordinator of Organization, Canadian Conservative Party 1968-72; Chair. of Board World Vision of Canada 1966-76; Pres. Gospel Recording of Canada 1971-73, Int. Co-ordinator 1975-79; Pres. Evangelical Fellowship of Canada 1971-; Pres. Thompson Assocs. Ltd.; Dir. Greenarctic Consortium, B.C., Yukon Regional Chamber of Commerce, Mission Aviation Fellowship, Canadian Bible Soc.; Prof. of Political Science, Trinity Western Coll., Van-

couver; Fellow, Royal Geographical Soc., London; mem. Inter-Parl. Union, Commonwealth Parl. Assn., NATO Parl. Assn., Gideons Int., Christian Businessmen of Canada Int.; Knight Commdr. Order of St. Lazarus of Jerusalem; Commdr. Ethiopian Star of Honour; centennial medal; Royal Jubilee Medal. *Publications:* Common Sense for Canadians, Canadians, It's Time You Knew, Canadians Face Facts. *Leisure interests:* reading, camping, hiking, farming. *Address:* House of Commons, Ottawa; 8989 Hudson Bay Street, Fort Langley, B.C., Canada (Home). *Telephone:* (604) 888-1783 and 888-5722 (Office); (604) 534-1366 (Home).

THOMPSON, Thomas Miller, B.A., B.S.; American transportation executive; b. 25 July 1917; one s. two d.; ed. Western Reserve Univ., Cleveland, Ohio; Gen. American Transportation Corpn. (now GATX Corpn.) 1939-, East Chicago 1939-41, Union Refrigerator Transit Div. 1941, Office Man., Cleveland 1945-52, Asst. Vice-Pres. Chicago 1952-58, Dir. and Vice-Pres. 1958-60, Pres. 1960-61, Chair. of Board and Chief Exec. Officer 1961-; U.S. Marine Corps 1942-45; official of other companies and civic orgs. *Leisure interests:* golf, reading. *Address:* GATX Corporation, 120 South Riverside Plaza, Chicago, Ill. 60606 (Office); 777 Sunset Ridge Road, Northfield, Ill. 60093, U.S.A. (Home).

THOMSEN, Ib; American business executive; b. 8 Oct. 1925, Copenhagen, Denmark; s. of Niels Thomas and Magda Marie Thomsen; m. Lisa Edith Voss 1947; two s. one d.; ed. Harvard Univ. Graduate School of Business Admin.; joined Goodyear Int. Corpn. 1952; Treas. Goodyear-India 1957-58; Treas. Goodyear-U.K. 1958, Financial Dir. and Sec. 1961, Asst. to Man. Dir. 1964, Deputy Man. Dir. 1964, Man. Dir. 1966; Vice-Pres. Goodyear Int. Corpn. 1971, Pres. Aug. 1972-; Dir. and Exec. Vice-Pres. Goodyear Tire & Rubber Co. 1973-. *Address:* Goodyear International Corporation, 1144 East Market Street, Akron, Ohio 44316 (Office); 150 Southwood Road, Akron, Ohio 44313, U.S.A. (Home). *Telephone:* 794-2026 (Office); 867-6910 (Home).

THOMSEN, Roszel C.; American judge; b. 17 Aug. 1900, Baltimore, Md.; s. of William E. Thomsen and Georgie A. (Cathcart) Thomsen; m. Carol Griffing Wolf 1929; one s. two d.; ed. Boys Latin School, Baltimore, Johns Hopkins Univ., and Univ. of Maryland; legal practice, Soper, Bowie and Clark 1922-27, partner, Clark, Thomsen and Smith 1927-54; Trustee, Goucher Coll. 1936-, Chair. Board of Trustees 1954-67; U.S. Dist. Judge, Maryland Dist. 1954-55, Chief Judge 1955-70; Senior U.S. Dist. Judge 1970-; Instructor in Commercial Law, Johns Hopkins Univ. 1933-43, Law School, Univ. of Maryland 1952-55; mem. Judicial Conf. of United States 1958-64; mem. Advisory Cttee. on Civil Rules 1960-70, Co-ordinating Cttee. for Multiple Litigation 1962-68, Cttee. to Implement the Criminal Justice Act of 1964 1964-74, Interim Advisory Cttee. on Judicial Ethics 1969-73, Cttee. on Admin. of the Criminal Law 1971-73; Chair. Standing Cttee. on Rules of Practice and Procedure of the U.S.A. 1973-; Judge, special court, Regional Rail Reorganization Act of 1973, 1973-. *Leisure interests:* literature, drama. *Address:* 720 United States Courthouse, 101 W. Lombard Street, Baltimore, Maryland 21201, U.S.A. *Telephone:* Mulberry 5-3522.

THOMSON, David Spence, M.C., M.P.; New Zealand dairy farmer and politician; b. 14 Nov. 1915, Stratford; m. June Grace 1942; one s. three d.; ed. Stratford Primary and High School; Territorial Army 1931-59, served Middle East 1939-42, Prisoner of war 1942-45, Brigadier (Reserve of Officers); Chair. Federated Farmers Subprovincial Exec. 1959-63; M.P. for Stratford 1963-; Minister of Defence, Minister in charge of Tourism, Minister in charge of Publicity 1966-67; Minister of Defence, Minister Asst. to Prime Minister, Minister in charge of War Pensions, Minister in charge of Rehabilitation Feb.-March 1967; Minister of Defence, Minister of Tourism, Minister Asst. to Prime Minister, Minister in charge of Publicity, Minister in charge of War Pensions, Minister in charge of Rehabilitation 1967-69; Minister of Defence, of Police, in charge of War Pensions, in charge of Rehabilitation 1969-72; Assoc. Minister of Labour and Immigration 1971-72, Minister Feb.-Dec. 1972; Minister of Justice; 1975-78; National Party; Nat. Party Minister of State, of State Services, Leader of the House Dec. 1978-. *Leisure interests:* fishing, golf, music. *Address:* Bird Road, Stratford, New Zealand.

THOMSON, James E.; American (naturalized) business executive; b. 29 June 1905, Ontario, Canada; m. Dorothy Miskimin 1927; one s. one d.; joined Merrill Lynch as runner 1924, Exec. Vice-Pres. 1964-66, Pres. 1966-68, Vice-Chair. April 1968, Chair. and Chief Exec. Officer 1968-70; Gov., American Stock Exchange 1962-66; Gov., New York Stock Exchange 1966-69. *Address:* 165 Broadway, New York, N.Y. 10006; 1000 Minisink Way, Westfield, N.J. 07090, U.S.A.

THOMSON, Sir John, K.B.E., T.D., M.A.; British banker; b. 3 April 1908, Oxfordshire; s. of Guy and Evelyn Vera (Hughes) Thomson; m. Elizabeth Brotherhood 1935 (died 1977); ed. Winchester Coll. and Magdalen Coll., Oxford; High Sheriff of Oxfordshire 1957; Vice-Chair. Barclays Bank Ltd. 1956-58, Deputy Chair. 1958-62, Chair. 1962-73, Dir. 1978.; Chair. Nuffield Medical Trustees, Nuffield Orthopaedic Trust; Pres. British Bankers Assn. 1964-66; Dir. Union Discount Co. of London 1960-74; Lord Lieut. of Oxfordshire 1963-; mem. Royal Comm. on Trade Unions and Employers Asscns. 1965-68; Steward, Jockey Club 1974-77, now Trustee; Deputy High Steward, Oxford Univ.; Curator, Oxford Univ. Chest 1949-74; Hon. Fellow St. Catherine's Coll., Oxford; Hon. D.C.L. (Oxon.); Knight of the Order of St. John. *Address:* Manor Farm House, Spelsbury, Oxford, England; Achnaba Lochgilphead, Argyll, Scotland. *Telephone:* 060-881-266; Lochgilphead 2537.

THOMSON, Sir John Adam, K.C.M.G.; British diplomatist; b. 27 April 1927, Aberdeenshire; s. of Sir George Thomson, Kt., F.R.S.; m. Elizabeth Anne McClure 1953; three s. one d.; ed. Philips Exeter Acad., N.H., U.S.A., Aberdeen Univ., Trinity Coll., Cambridge; Third Secretary, Embassy in Jeddah 1951, in Damascus 1954; Foreign Office 1955; Private Sec. to Perm. Under-Sec. 1958; First Sec., Embassy in Washington, D.C. 1960; Foreign Office 1964; Acting Head of Planning Staff 1966; Counsellor, Head of Planning Staff 1967; seconded to Cabinet Office as Chief of Assessment Staff 1968; Minister, Deputy Perm. Rep. to NATO 1972; Asst. Under-Sec. of State, Foreign and Commonwealth Office 1973; High Commr. in India 1977-. *Publication:* Crusader Castles (with Robin Fedden). *Leisure interests:* castles, oriental carpets. *Address:* British High Commission, Shanti Path, Chanakyapuri, New Delhi 110021, India; Lochpatrick Mill, Kirkpatrick, Durham; Castle Douglas, Kirkcudbrightshire, Scotland (Homes).

THOMSON, Meldrim, LL.B.; American lawyer and politician; b. 8 March 1912, Pittsburgh, Pa.; m. Gale Kelly 1938; four s. two d.; ed. Miami Univ. and Law School, Fla., Mercer Univ., Ga., Univ. of Georgia; founder and past Pres., Equity Publishing Co., Orford, N.H., publishers of legal texts; fmr. mem. and Chair. Stony Brook, Long Island, School Board and Orford, N.H., School Board; mem. Constitutional Convention, N.H. 1964; Co-founder Taxfighters, Inc., N.H.; fmr. Instructor in Political Science, Univ. of Ga.; Co-founder N.H. Public School Assn.; supervised the revision of Title 1918 (Criminal Code) and Title 1926 (Judiciary Code) of U.S. 1948 Code of Laws; Gov. of New Hampshire 1973-79; mem. several legal and bar asscns.; mem. Bar of U.S. Supreme Court; Chair. Nat. Conservative Caucus; Republican. *Address:* c/o Office of the Governor, Concord, N.H. 03301, U.S.A.

THOMSON, Richard Murray, B.A.SC.(ENG.), M.B.A.; Canadian banker; b. 14 Aug. 1933, Winnipeg, Man.; s. of H. W. Thomson; m. Heather Lorimer 1959; ed. Univ. of Toronto, Harvard Business School, Queen's Univ., Kingston, Ont.; joined Toronto-Dominion Bank, Head Office 1957, Senior Asst. Man., St. James & McGill, Montreal 1961, Asst. to Pres., Head Office 1963, Asst. Gen. Man. 1965, Chief Gen. Man. 1968, Vice-Pres., Chief Gen. Man., Dir. 1971, Pres. 1972-, Pres. and Chief Exec. Officer 1977-, Chair. and Chief Exec. Officer May 1978-; Dir. Eaton's of Canada, Canadian Gypsum Co., S. C. Johnson & Co. Ltd., Texasgulf Inc., Cadillac Fairview Corpn. Ltd., Union Carbide of Canada, The Prudential Insurance Co. of America, Toronto Dominion Bank; Trustee, Hospital for Sick Children. *Leisure interests:* golf, tennis, skiing. *Address:* Toronto-Dominion Bank, P.O. Box 1, Toronto-Dominion Centre, Toronto, Ont. M5K 1AN, Canada.

THOMSON, Virgil, A.B.; American composer and critic; b. 25 Nov. 1896, Kansas City, Mo.; s. of Quincy A. and May Gaines Thomson; ed. Harvard Univ., and studied under Nadia Boulanger and Rosario Scalero; Asst. Instructor in Music, Harvard Univ. 1921-25; Organist, King's Chapel, Boston 1922-23; lived in Paris 1925-40; Music Critic N.Y. Herald Tribune 1940-54; Pulitzer Prize in Music 1949; Gold Medal Nat. Inst. of Arts and Letters 1966; Brandeis Award 1968; mem. American Acad. of Arts and Letters, American Acad. Arts and Sciences; Hon. D.F.A. (Syracuse, Roosevelt, Missouri), Hon. Litt.D. (Rutgers Univ.), Litt. Hum. Doc. (Park Coll., John Hopkins Univ.), D.Mus. (Fairfield Univ., N.Y. Univ., Columbia; Officier, Légion d'honneur. *Publications:* The State of Music 1939, The Musical Scene 1945, The Art of Judging Music 1948, Music Right and Left 1951, Virgil Thomson (memoirs) 1966, Music Reviewed 1940-54, 1967, American Music since 1910 1971. *Compositions include:* three operas: Four Saints in Three Acts 1928, Filling Station (ballet) 1938, The Mother of Us All 1947, Lord Byron 1968, Parson Weems and the Cherry Tree (ballet) 1975; incidental music for plays and films, including: The Plow that Broke the Plains 1936, The River 1937, Louisiana Story 1948, The Goddess 1957, Power Among Men 1957, Journey to America 1964;

three Symphonies and many shorter works for orchestra (incl. twelve Portraits and eight Suites), a Cello Concerto, a Flute Concerto, a Concertino for Harp, two String Quartets, and other chamber music; four Piano Sonatas and many short piano pieces, songs and choruses; Missa pro Defunctis for men's and women's choirs and orchestra; Cantata on Poems of Edward Lear (for soprano and baritone soloists, chorus and orchestra) 1973. *Leisure interest:* cooking. *Address:* 222 West 23rd Street, New York, N.Y. 10011, U.S.A.

THOMSON OF FLEET, 2nd Baron (cr.1964), of Northbridge in the City of Edinburgh; **Kenneth Roy Thomson,** M.A.; Canadian newspaper proprietor; b. 1 Sept. 1923, Toronto; s. of the late Roy Thomson, the 1st Lord Thomson of Fleet, and Edna Anna Irvine; m. Nora Marilyn Lavis 1956; two s. one d.; ed. Upper Canada Coll. and Cambridge Univ.; served with Canadian Air Force during Second World War; in Editorial Dept., Timmins Daily Press, Timmins, Ont. 1947; Advertising Dept. Galt Reporter 1948-50, Gen. Man. 1950-53; directed U.S. and Canadian Operations of Thomson Newspapers in Toronto 1953-68; Deputy Chair. Times Newspapers Ltd. 1966-67, Chair. 1968-70, Co-Pres. 1971-; Chair. Pres. and Dir. Thomson Newspapers Ltd.; Chair. and Dir. Int. Thomson Organisation Ltd., Chair. Thomson Org. Ltd.; Dir. Abitibi Paper Co. Ltd., Toronto, The Toronto Dominion Bank. *Leisure interests:* collecting antiques and paintings, art and golf. *Address:* Thomson Newspapers Limited, Thomson Building, 65 Queen Street West, Toronto, Ontario M5H 2M8, Canada; The Thomson Organisation Ltd., P.O. Box 4YG, 4 Stratford Place, London WIN 4YG, England; Times Newspapers Ltd., New Printing House Square, Gray's Inn Road, London, WC1X 8EZ, England; 8 Castle Frank Road, Toronto 5, Ontario, Canada; 8 Kensington Palace Gardens, London, W.8, England (Homes). *Telephone:* 864-1710 (Thomson Newspapers); 01-492 0321 (Thomson Organisation).

THOMSON OF MONIFIETH, Baron (Life Peer), cr. 1977, of Monifieth in the District of the City of Dundee; **George Morgan Thomson,** P.C.; British journalist and politician; b. 16 Jan. 1921, Stirling, Scotland; s. of James Thomson; m. Grace Jenkins 1948; two d.; ed. Grove Acad., Dundee; Royal Air Force 1940-45; Editor Forward 1946-53; M.P. 1952-72; Chair. Commonwealth Educ. Council 1959-64; Chair. Parl. Group for World Govt. 1962-64; Minister of State, Foreign Office 1964-66, Jan.-Aug. 1967; Chancellor of Duchy of Lancaster 1966-67; Sec. of State for Commonwealth Affairs 1967-68; Minister without Portfolio 1968-69; Chancellor of Duchy of Lancaster and Deputy Foreign Sec. (with special responsibility for European Affairs and Common Market negotiations) 1969-70; Opposition Spokesman on Defence 1970-72; Chair. Standing Conf. of British Refugee Orgs. 1971-72; Chair. David Davies Memorial Inst. 1971-77; Chair. Labour Cttee. for Europe 1972-73, European Movement 1977-; mem. Comm. of European Communities, with special responsibility for Regional Policy 1973-76; First Crown Estate Commr. 1977-; Chair. Advertising Standards Authority 1977, Franco-British Council 1979-, Anglo-Rumanian Round Table 1979-; Chancellor, Heriot-Watt Univ. 1977-; Dir. ICI, Royal Bank of Scotland; Trustee Thomson Foundation; Hon. LL.D. (Dundee) 1967, D.Litt. (Heriot-Watt) 1973; Hon. D.Sc. (Aston) 1976; Labour. *Address:* c/o Brooks's, St. James's Street, London, S.W.1, England.

THONEMANN, Peter Clive, M.SC., D.PHIL.; British physicist; b. 3 June 1917, Melbourne, Australia; s. of Frederick Emil and Mabel Jessie Thonemann; one s. one d.; ed. Univs. of Melbourne and Sydney and Trinity Coll., Oxford; Commonwealth Research Scholar (Sydney Univ.) 1944-46; I.C.I. Fellow, Clarendon Lab., Oxford, 1946-49; Head of Controlled Thermonuclear Research A.E.R.E., Harwell 1949-60, Deputy Dir., Culham Lab. of the Atomic Energy Authority 1965-66; Prof. of Physics and Head of Dept., Univ. Coll. of Swansea 1968-. *Address:* Department of Physics, University College of Swansea, Singleton Park, Swansea, Wales; 33 Cumnor Hill, Oxford, England (Home).

THORLEY, Sir Gerald Bowers, Kt., T.D.: British business executive; b. 1913, Burton-on-Trent; m. Beryl Preston (née Rhodes) 1947; one s. one d.; ed. Ratcliffe Coll., Leicester; joined Ind Coope & Allsopp 1935; mil. service and prisoner-of-war 1939-45; Dir. Ind Coope 1947, later Chair.; Dir. Allied Breweries Ltd. 1961-, Vice-Chair. 1967, Deputy Chair. 1969, Chief Exec. and Chair. 1970-75; Govt. Dir. and Chair. British Sugar Corpn. April 1968-; Chair. MEPC Ltd. 1976-; Vice-Chair. Rockware Group Ltd.; Dir. British American-Tobacco Co. Ltd. 1974-, Drayton Commercial Investment Trust Ltd.; Underwriting Mem. Lloyd's 1952-. *Leisure interests:* gardening, golf, agriculture. *Address:* Church House, Bale, Fakenham, Norfolk, England (Home). *Telephone:* Thursford 314.

THORN, Gaston, D. EN D.; Luxembourg politician; b. 3 Sept. 1928, Luxembourg; s. of Edouard Thorn and Suzanne Weber; m. Liliane Petit 1957; one s.; ed. Univs. of Montpellier, Lausanne and Paris; admitted to Luxembourg Bar; Pres. Nat. Union of Students, Luxembourg; mem. Legislature 1959-; mem. European Parl. 1959-69, Vice-Pres. Liberal Group; Pres. Democratic Party, Luxembourg 1961-; Minister of Foreign Affairs and Minister of Foreign Trade 1969-; also Minister of Physical Educ. and Sport 1969-77, Prime Minister and Minister of State 1974-79, Minister of Nat. Econ. and Middle Classes 1977-, of Justice 1979-; Vice-Pres. July 1979-; Pres. Liberal Int. 1970-; Pres. of 30th Session of the UN Gen. Assembly 1975-76; Pres. Fed. of Liberal and Democratic Parties of European Community 1976-; Grand Cross, Order of Merit (Ivory Coast) 1976. *Leisure interests:* lecturing, tennis, golf. *Address:* 1 rue de la Forge, Luxembourg (Home). *Telephone:* 420-77.

THORN, George Widmer, M.D.; American physician; b. 15 Jan. 1906, Buffalo, N.Y.; s. of George W. and Fanny (Widmer) Thorn; m. Doris Weston 1931; one s.; ed. Coll. of Wooster, Ohio; House Officer, Millard Fillmore Hospital, Buffalo (N.Y.) 1929-30; Asst. Univ. of Buffalo 1931-34; Rockefeller Fellow in Medicine, Harvard Medical School and Mass. Gen. Hospital 1934-35; Asst. Prof. Dept. of Physiology, Ohio State Univ. 1935-36; Assoc. Prof. of Medicine, Johns Hopkins Medical School, Assoc. Physician Johns Hopkins Hospital 1936-42; Physician-in-Chief, Peter Bent Brigham Hospital, Hersey Prof. of Theory and Practice of Physic, Harvard Univ. 1942-72, Emer. 1972-; Samuel A. Levine Prof. of Medicine, Harvard Medical School 1967-72, Emer. 1972-; Dir. of Research, Howard Hughes Medical Inst. 1956-78, mem. Exec. Cttee. 1978-, Chair. Medical Advisory Board 1978-; mem. Corpn. and of Exec.Cttee. of Corpn. of M.I.T. 1965-; First Wingate Johnson Visiting Prof., Bowman Gray School of Medicine, Wake Forest Univ. 1972; Consultant U.S. Public Health Service, etc.; Fellow, Royal College of Physicians, London; mem. Nat. Advisory Cttee. on Radiation; Trustee, Diabetic Fund; numerous awards including John Philips Memorial Award (American Coll. of Physicians) 1955, Modern Medicine Award 1961, George Minot Award (American Medical Assn.) 1963, Robert H. Williams Award (Assn. of Profs. of Medicine) 1972; Hon. mem. Soc. Columbiana de Endocrinología (Bogotá), Royal Soc. of Medicine (Great Britain); mem. Royal Acad. of Medicine (Belgium), Norwegian Medical Soc., Swedish Medical Soc.; First Lilly Lecturer, Royal Coll. of Physicians, London 1966; Commdr. Order of Hipólito Unanue (Peru). *Leisure interests:* tennis, music, arboriculture. *Address:* 45 Shattuck Street, Boston, Mass. 02115; 983 Memorial Drive, Cambridge, Mass. 02138, U.S.A. *Telephone:* 617-876-6410 (Home).

THORN, Sir Jules, Kt.; British business executive; Chair. Thorn Electrical Industries Ltd. 1937-76, Man. Dir. 1937-69, Hon. Life Pres. 1976-; Fellow of British Inst. of Management; Hon. Master of the Bench of Middle Temple 1969. *Address:* Thorn Electrical Industries Ltd., Thorn House, Upper St. Martin's Lane, London, WC2H 9ED, England.

THORNBROUGH, Albert A.; American business executive; b. 1912; ed. Kansas State Coll., Harvard Univ.; Deputy Chair. 1956-, Pres. 1956-78, Chief Exec. Officer 1965- and Dir. Massey-Ferguson Ltd., Toronto; mem. Farm and Industrial Equipment Inst. (Pres. 1962-63). *Address:* 200 University Avenue, Toronto, Ont. M5H 3E4, Canada.

THORNEYCROFT, Baron (Life Peer), cr. 1967, of Dunston in the County of Stafford; **(George Edward) Peter Thorneycroft,** P.C.; British barrister and politician; b. 26 July 1909; ed. Eton and Royal Military Acad., Woolwich; commissioned service in Royal Artillery 1930-33; called to Bar, Inner Temple 1935; practised in Birmingham; served Royal Artillery in Second World War; Conservative M.P. for Stafford 1938-45, for Monmouth 1945-66; Parl. Sec., Ministry of War Transport 1945; Pres. of the Board of Trade 1951-57, Chancellor of the Exchequer 1957-58; Minister of Aviation 1960-62, of Defence 1962-64; Sec. of State for Defence April-Oct. 1964; Dir. Pirelli Ltd. Dec.1964-, Securicor Ltd. 1969-; Chair. Pirelli Gen. Cable Works Ltd. 1967-, Pye of Cambridge Ltd. 1967-, Pye Holdings Ltd. 1967-, SITPRO (Simplification of Int. Trade Procedures) 1968-75, Pirelli Ltd. 1969-, Trust Houses Forte Ltd. 1971-, British Overseas Trade Board 1972-75; Chair. of Conservative Party Feb. 1975-. *Address:* House of Lords, London, S.W.1, England. *Telephone:* 01-219 4093.

THORNTON, Charles Bates, B.C.S.; American business executive; b. 22 July 1913, Knox Co., Tex.; m. Flora Laney Thornton; two s.; ed. Texas Technological Coll., George Washington Univ., and Columbia Univ.; U.S. Army Air Force, Second World War, Consultant to Commdg. Gen. A.A.F. 1946, to Under-Sec. Dept. of State 1947; Dir. of Planning, Ford Motor Co. 1946-48; Vice-Pres.,

Chair., Exec. Cttee., Hughes Aircraft Co. 1948, Asst. Gen. Man. 1948-53; Vice-Pres. Hughes Tool Co. 1948-53; Chair. and Pres. Litton Industries Inc. 1953-61, now Chair. of the Board and Chief Exec. Officer; Dir. United Calif. Bank, Cyprus Mines, Inc.; Dir. and mem. Finance Cttee. Trans World Airlines Inc.; many other directorships; mem. Emergency Cttee. for American Trade, The Business Council, and of many other asscns. and cttees.; Life Trustee, Univ. of S. Calif.; Hon. D.C.S. (George Washington Univ.), Hon. D.Iur. (Texas Technological Coll. and Univs. of S. Calif. and Pepperdine); Distinguished Service Medal, Legion of Merit, and many civilian awards. *Address:* 360 North Crescent Drive, Beverly Hills, Calif. 90213, U.S.A. (Office).

THOROGOOD, Kenneth Alfred Charles; British international trade financier; b. 1924, London; s. of Albert Jesse and Alice Lucy Thorogood; m. 1947; two d.; ed. Highbury County Grammar School; Flight Lieut., R.A.F. 1942-46; Chair. British Export Houses Assn. 1968-70, Vice-Pres. 1973-76; mem. Cttee. of Invisible Exports 1968-70; Exec. Chair., Tozer Kemsley & Millbourn (Holdings) Ltd. (int. finance and investment group) 1971-; Dir. Alexanders Discount Co. Ltd. 1973-, Royal Insurance Co. Ltd. 1973-, Liverpool & London & Globe Insurance Co. Ltd. 1973-78, London & Lancashire Insurance Co. Ltd. 1973-78. *Leisure interests:* aviation, music. *Address:* Tozer Kemsley & Millbourn (Holdings) Ltd., 28 Great Tower Street, London, EC3R 5DE, England. *Telephone:* 01-283 3122.

THORP, Willard Long, A.M., PH.D.; American economist; b. 24 May 1899, Oswego, N.Y.; s. of Rev. Charles N. Thorp and Susan Long (Thorp); m. Clarice F. Brows; one s. two d.; ed. Amherst Coll., Univ. of Michigan, and Columbia Univ.; taught Econs. at Univ. of Michigan and Amherst Coll. 1926-34; Research Staff of the Nat. Bureau of Econ. Research 1923-33; Chief Statistician N.Y. State Board of Housing 1925-26; Dir. U.S. Bureau of Foreign and Domestic Commerce 1933-34; Dir. Econ. Research, Dun & Bradstreet Inc. and Editor of Dun's Review 1935-40; Econ. Adviser to Sec. of Commerce 1939-40; Chair. of Board of Gen. Public Utilities Corpn. 1940-46, Deputy to Asst. Sec. of State for Econ. Affairs 1945-46, Asst. Sec. of State for Econ. Affairs 1946-52; U.S. rep. UN Econ. and Social Council 1946-50; Prof. of Econs., Amherst Coll. and Dir. Merrill Center for Econs. 1952-65; Fellow American Acad. of Arts and Sciences; Dir. Nat. Bureau Econ. Research 1956-; Trustee Associated Gas and Electric Corpn. 1940-46, Brandeis Univ. 1956-62; American Assn. Univ. Profs. Council 1957-60; Foreign Bondholders Protective Council 1958-63; Nat. Comm. on Money and Credit 1958-61; Acting Pres. Amherst Coll. 1957; Chief UN Econ. Survey Mission to Cyprus 1960; Chief, President's Special Econ. Mission to Bolivia 1961; Chair. Devt. Assistance Cttee. OECD 1963-67, Finance Cttee., Pelham, Mass. 1975-; Senior Fellow, Council on Foreign Relations, N.Y.C. 1968-69; Consultant, Admin. Man., UN 1970-72; Distinguished Visiting Prof. Univ. of Florida 1971; Hon. LL.D. (Marietta, Amherst, Allbright Colls., Univs. of Mass., Michigan). *Publications:* The Integration of Industrial Operation 1924, Business Annals 1926, Economic Institutions 1928, The Structure of Industry (co-author) 1941, Trade, Aid or What? 1954, The New Inflation (co-author) 1959; contrib. to Recent Economic Changes, Cyprus: Suggestions for a Development Program 1961; Editor: Economic Problems in a Changing World 1939, The United States and the Far East (American Assembly series 1956), 1962, Development Assistance Efforts and Policies 1963, 1964, 1965, 1967, The Reality of Foreign Aid 1971. *Address:* 9 Harkness Road, Amherst, Mass. 01002, U.S.A. *Telephone:* 413-256-8019.

THORPE, Rt. Hon. (John) Jeremy, P.C.; British politician; b. 29 April 1929; m. 1st Caroline Allpass 1968 (died 1970), one s.; m. 2nd Maria (Marion) Stein, fmr. Countess of Harewood, 1973; ed. Rectory School, Conn., Eton Coll. and Trinity Coll., Oxford; Barrister, Inner Temple 1954; mem. Devon Sessions; mem. Parl. for North Devon 1959-79; Treas. UN Parl. Group 1962-67; Hon. Treas. Liberal Party 1965-67, Leader 1967-76; Chair. UN Assn. of Great Britain and N. Ireland. *Publications:* To All Who Are Interested in Democracy 1951, Europe: The Case for Going In 1971. *Address:* Orme Square, Bayswater, London, W.2, England.

THORPE, William Homan, M.A., SC.D., F.R.S. ; British zoologist specializing in animal behaviour; b. 1 April 1902, Hastings, Sussex; s. of Francis Homan Thorpe and Mary Amelia Thorpe (née Slade); m. Winifred Mary Vincent 1936; one d.; ed. Mill Hill School and Jesus Coll., Cambridge; Research Fellow of Int. Educ. Board (Rockefeller Foundation), Univ. of Calif. 1927-29; Research Entomologist, Farnham Royal Parasite Lab. of Imperial Bureau of Entomology 1929-32; Tutor, Jesus Coll., Cambridge 1932-45, Senior Tutor 1945-47; Lecturer in Entomology, Univ. of Cambridge 1932-59; Leverhulme Research Fellow in E. Africa 1939; Dir. Sub-Dept. of Animal Behaviour, Univ. of Cambridge 1959-69; Prof. of Animal Ethology, Univ. of Cambridge 1966-69; Pres. Assn. for Study of Animal Behaviour 1948-52, Soc. of British Entomology 1951-53, British Ornithologists' Union 1955-60, Section D (Zoology), British Assn. (Sheffield) 1956; Prather Lecturer in Biology, Harvard Univ. 1951-52; Visiting Prof. Univ. of Calif. 1958; Eddington Lecturer 1960; Riddell Lecturer, Durham Univ. 1961; Fremantle Lecturer, Balliol Coll., Oxford 1962-63; Gifford Lecturer, St. Andrews Univ. 1969-71; Pres. Jesus Coll., Cambridge 1969-72. *Publications:* Learning and Instinct in Animals 1956, Current Problems in Animal Behaviour (edited with O. L. Zangwill) 1961, Bird Song: The Biology of Vocal Communication and Expression in Birds 1961, Biology and the Nature of Man 1962, Science, Man and Morals 1965, Duetting and Antiphonal Song in Birds: its Extent and Significance 1972, Animal Nature and Human Nature 1974, Purpose in a World of Chance: A Biologist's View 1978, The Origins and Rise of Ethology 1979; numerous papers on entomology, ornithology, comparative physiology and animal behaviour in scientific journals. *Leisure interests:* music, swimming. *Address:* Sub-Department of Animal Behaviour, University of Cambridge, Madingley, Cambridge (Office). *Telephone:* Madingley 210301 (Office); Cambridge 68611 (Home).

THORSTEINSSON, Pétur; Icelandic diplomatist; b. 1917, Reykjavík; m. Oddny Stefansson 1948; three s.; ed. Univ. of Iceland; entered Ministry of Foreign Affairs 1944; served Moscow 1944, Ministry of Foreign Affairs 1947; del. to F.A.O. Assembly, Washington 1949; Sec. Icelandic F.A.O. Cttee. 1948-51; Chief of Div., Ministry of Foreign Affairs 1951, Head, Commercial Div. 1950-53; Chair. Inter-Bank Cttee. on Foreign Exchange 1952-53; Minister to U.S.S.R. 1953-56, Amb. 1956-61 (concurrently Minister to Hungary 1955-61 and to Romania 1956-61); Amb. to Fed. Repub. of Germany (concurrently Amb. to Greece and Minister to Switzerland and Yugoslavia) 1961-62, to France (concurrently Perm. Rep. to NATO and OECD) 1962-65, concurrently Amb. to Belgium 1962-65, to Luxembourg 1962-65, to EEC 1963-65; Amb. to U.S.A. 1965-69, concurrently accred. to Argentina, Brazil, Canada and Mexico and Minister to Cuba; Sec.-Gen. Ministry of Foreign Affairs 1969-76; Amb. to Distant Countries (Asia and Africa) with Residence in Reykjavik 1976-, accred. to China, Japan, India, Pakistan and Iran 1976-, and to Thailand 1977, to Iraq and Bangladesh 1978-; Commdr. with Star, Order of the Icelandic Falcon; Belgian, French, Luxembourg, Norwegian, Danish, Swedish and Finnish decorations. *Address:* Ministry of Foreign Affairs, Reykjavik, Iceland. *Telephone:* 25-000.

THRANE, Hans Erik, M.ECON.; Danish diplomatist; b. 14 April 1918, Copenhagen; s. of Julius Peter Thrane and Frieda Jensen; m. Gerda Boye 1941; two s.; ed. Københavns Universitet; Danish Foreign Service 1945-; Econ. Attaché, Paris 1948-52; Ministry of Foreign Affairs, Copenhagen 1952-56; Econ. Counsellor, Washington 1956-59; Alt. Exec. Dir., Int. Bank for Reconstruction and Devt. 1958-59; Ministry of Foreign Affairs, Copenhagen 1959-66, Minister 1962, Asst. Undersec. of State for Econ. Affairs 1964; Amb. and Perm. Rep. to European Free Trade Assn. (EFTA), and Perm. Rep. to UN Office and other int. orgs. in Geneva 1966-74; Chair. of Council, Gen. Agreement on Tariffs and Trade (GATT) 1968-71; Amb. to Norway 1974-. *Leisure interests:* sailing, skiing, mountaineering. *Address:* Kgl. Dansk Ambassade, Olav Kyrresgt. 7, Oslo 2 *(Mail Address:* Postuttak, Oslo 1); Villaveien 31, Oslo, Norway (Home). *Telephone:* 44-18-46 (Office); 60-77-31 (Home).

THULIN, Ingrid; Swedish actress; b. 27 Jan. 1929, Sollefteå; d. of Adam Thulin and Nanna Larsson; m. 1st Claes Sylwander 1951, 2nd Harry Schein 1956; ed. Royal Dramatic Theatre School, Stockholm; has appeared in many modern and classical plays for Royal Dramatic Theatre, Stockholm, and for municipal theatres of Malmo and Stockholm until 1962; has also appeared on Broadway, the Italian stage and U.S. T.V.; many national and int. awards. *Films include:* When Love Comes to the Village 1950, Wild Strawberries 1957, So Close to Life 1958, The Face 1958, The Judge 1960, The Four Horsemen of the Apocalypse 1961, Winter Light 1962, The Silence 1963, La guerre est finie 1968, The Damned 1970, Cries and Whispers 1973, A Handful of Love 1974, La cage 1975, Cassandra Crossing 1976, Agnes Will Die 1977, One and One 1978. *Address:* Kevingestrand 7B, Danderyd, Sweden; Sacrofano, Rome, Italy. *Telephone:* 08-755-68-98 (Sweden).

THUNBORG, Anders; Swedish diplomatist; b. 9 June 1934, Stockholm; m. Ingalill Thunborg; three s. two d.; Organizing Sec. of Stockholm Branch, Social Democratic Party 1958, transferred to party Exec. 1960, later Information Sec. and then Int. Sec.; Asst. Party Sec. 1967-69; Under-Sec. of State, Ministry of Defence 1969-74, Ministry of Foreign Affairs 1974-76; Perm. Rep. to UN Jan. 1977-. *Publications:* a number of books, handbooks and essays mainly on int. affairs and defence policy. *Address:* Permanent Mission of Sweden to the United Nations; 825 Third Avenue, 39th

Floor, New York, N.Y. 10022 (Office); 903 Park Avenue, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* 751-5900 (Office); 988-0237 (Home).

THUNGON, Prem Khandu; Indian politician; b. 5 June 1946, Shergaon, Kameng district; s. of the late Pema Wandi Thungon; m. Smti. Phurpa Lhamu Thungon; two s.; elected to Anchal Samiti and later to Zilla Council; first Chief Minister to Arunachal Pradesh 1975; del. to UN Gen. Assembly 1976; mem. for Dirrang-Kalaktang, Arunachal Pradesh Legislative Assembly; leader of Janata Party in Assembly and Chief Minister of Arunachal Pradesh March 1978-; mem. North Eastern Council; Chair. North Eastern Regional Electricity Board; mem. Hindi Salakhar Samiti in Union Ministry of Home Affairs; mem. Arunachal Pradesh Social Welfare Advisory Board; Sec. Itanagar K.G. School; Chair. Kameng Transport Assn.; Chair. Co-operative Soc. of Shergaon; Pres. Uttar Purbanchal Rashtra Bhasa-Prachar Samiti. *Address:* Office of the Chief Minister, Itanagar, Arunachal Pradesh, India. *Telephone:* Itanagar 222.

THUNHOLM, Lars-Erik, C.B.E.; Swedish business executive; b. 2 Nov. 1914, Stockholm; ed. Stockholm School of Economics, Univ. of Stockholm; joined Svenska Handelsbanken 1938, Econ. Adviser and Man. of Econ. Dept. 1948-55; Head of Fed. of Swedish Industries 1955-57; Man. Dir. Skandinaviska Banken, Stockholm (now Skandinaviska Enskilda Banken) 1957-65, Chief Man. Dir. 1965-76, Chair. of Board 1976-; Chair. of Board, Banque Scandinave en Suisse, Scandinavian Bank Ltd., Euroc AB, Kockums AB, Billeruds AB, Svenska Dagbladet, Svenska Tandsticks AB; Vice-Chair. AB Bofors; mem. of Board ADELA Investment Co. SA, Custos AB, Nobel Foundation, Stockholm School of Econs.; Deutsch- Skandinavische Bank, Försakrings AB Skandia, Gränges AB; Chair. Swedish Bankers Assn., Swedish British Soc. and mem. of other insts.; Kt. Commdr. of the Royal Order of Vasa; Grand Cross, Order of the North Star. *Publications:* Svenskt Kreditvasen 1969, Bankvasendet i utlandet 1969, Bankerna och penningpolitiken 1964, Bankerna och samhället 1974. *Address:* c/o Skandinaviska Enskilda Banken, S-103 22 Stockholm 16, Sweden.

THURLOW, 8th Baron, cr. 1792; **Francis Edward Hovell-Thurlow-Cumming-Bruce,** K.C.M.G.; British diplomatist; b. 9 March 1912, London; s. of 6th Baron Thurlow and Grace Catherine Trotter; m. Yvonne Diana Wilson 1949; two s. two d.; ed. Shrewsbury School and Trinity Coll., Cambridge; Asst. Principal, Dept. of Agric. for Scotland 1935-37, Dominions Office 1937; Asst. Sec. Office of U.K. High Commr. in New Zealand 1939-44, in Canada 1944-46; Principal Private Sec. to Sec. of State 1946-48; Asst. Sec. Commonwealth Relations Office (C.R.O.) 1948; Head of Political Div., Office of U.K. High Commr. in India 1949-52; Establishment Officer, C.R.O. 1952-54, Head of Commodities Dept. 1954-55; Adviser on External Affairs to Gov. of Gold Coast 1955-57, Deputy High Commr. for U.K. in Ghana 1957-58; Asst. Under-Sec. of State, C.R.O. 1958; Deputy High Commr. for U.K. in Canada 1958-59, High Commr. in New Zealand 1959-63, High Commr. in Nigeria 1964-66; Gov. and C.-in-C. Bahamas 1968-72; Chair. Inst. for Comparative Study of History, Philosophy and the Sciences, Ramana Health Centre for Natural Medicine. *Leisure interest:* nature study. *Address:* 16 Warwick Avenue, London, W.2, England. *Telephone:* 01-723 7525.

THURMOND, Strom; American lawyer, farmer and politician; b. 5 Dec.1902, Edgefield, S.C.; s. of J. William and Eleanor Gertrude Thurmond (née Strom); m. 1st Jean Crouch 1947 (died 1960), 2nd Nancy Moore 1968; two s. two d.; ed. Clemson Coll.; Teacher, South Carolina Schools 1923-29, Supt. 1929-33; admitted to the Bar 1930, served as City and County Attorney; State Senator 1933-38; Circuit Judge 1938-46; active service in Europe and Pacific 1942-46; Maj.-Gen. in U.S. Army Reserve (retd.); Gov. of South Carolina 1947-51; U.S. Senator from South Carolina 1954-; Trustee, Bob Jones Univ.; Chair. South Carolina Democratic del. and mem. Nat. Exec. Cttee. 1948; mem. American Bar Assn., Clemson Alumni Assn.; Hon. LL.D., Hon. D.M.S., Hon. L.H.D., Hon. D.C.L., Hon. Litt.D.; decorations include Legion of Merit with Oak Leaf Cluster, Bronze Star with "V", Purple Heart, Croix de guerre, Croix de la Couronne, Army Commendation Ribbon, Congressional Medal, Honor Soc. Nat. Patriot's Award 1974, American Legion Distinguished Public Service Award 1975; Republican 1964-. *Address:* Senate Office Building, Washington, D.C. 20510; Box 981, Aiken, South Carolina, U.S.A. (Home). *Telephone:* 202-224-5972.

THURSTON, Raymond LeRoy, PH.D., M.A.; American diplomatist; b. 4 Feb. 1913, St. Louis, Mo.; s. of Charles and Hazel R. Thurston; m. 1st Elizabeth Sherman 1934 (divorced), 2nd Gabriella Mariani 1970; one d.; ed. Washington Univ., and Univs. of Texas and Wisconsin; Diplomatic Service, Toronto, Naples, Bombay 1937-45; Asst. Chief, S. Asian Affairs, Dept. of State 1945-49; First Sec./Counsellor Moscow 1949-51; Dir. E. European Affairs, Dept. of State 1952-55; Counsellor, Athens 1955-57, Paris 1957-61; Minister to NATO 1961; Deputy Dir. Operations Center, Dept. of State 1961; Amb. to Haiti 1961-63; State Dept. Adviser to Commdr., Air Univ. 1963-65; Amb. to Somalia 1965-69; Visiting Prof. of Political Science, Univ. of Nevada 1969-71; Visiting Prof. of Govt. Chapman Coll., Calif. 1971-; Assoc. Prof. Center for Int. Studies, Chairman Coll., World Campus Afloat, Dean and Dir. of Program Devt., Off-Campus Rep. (Chapman Coll.) 1975-76; Academic Adviser Inst. of Shipboard Educ. 1976-; Co-ordinator and mem. Bd., Lifelong Learning Inc. 1976-; mem. Board Sarasota Inst. of Life Time Learning 1976-; Adjunct Prof., Univ. of Sarasota 1976-. *Publications:* article on Somalia and the United States in Horn of Africa April-June 1978. *Leisure interests:* golf, chess, swimming. *Address:* 5400 Ocean Boulevard, 3-1 Sarasota, Fla. 33581, U.S.A.; "Il Piccolo Campo", La Cima, 06069 Tuoro sul Trasimeno, Perugia, Italy. *Telephone:* (813) 349-4338 (U.S.A.); (075) 846-358 (Italy).

THYGESEN, Jacob Christoffer, M.A.; Danish industrialist; b. 11 April 1901, Kolding, Jutland; s. of S. Thygesen; m. Rigmor Thygesen 1932; one s.; ed. Copenhagen Univ.; worked in Danish Foreign Service 1926-30; joined The Danish Distilleries Ltd. 1930, Man. Dir. 1953-71; Barrister, High Court 1939; Chair. Fed. of Danish Industries 1961-66; Pres. Nat. Cttee. Int. Chamber of Commerce 1959-66; mem. Acad. of Technical Science 1956-, Atomic Energy Comm. 1964-68; Vice-Pres. Business and Industry Advisory Comm. to OECD (BIAC), Paris 1966-68; Chair. Danish Section, European League for Econ. Co-operation; Chair. The National Bank of Denmark 1966-77, Superfos Ltd., The Royal Chartered Fire Insurance Co. Ltd; Dir. Scandinavian Tobacco Co. Ltd., Synthetic Ltd., and other industrial cos. and foundations; Commdr. 1st Grade Order of Dannebrog; Knight, Order of Orange-Nassau (Netherlands), Grand Officer, Order of the Crown (Belgium). *Leisure interest:* golf. *Address:* Amaliegade 22, 1256 Copenhagen K, Denmark.

THYSSON-BORNEMISZA DE KASZON, Baron Hans Heinrich; Swiss industrialist and administrator; b. 13 April 1921; ed. Real Gymnasium, The Hague, Fribourg Univ.; positions held: Chair. Supervisory Board Thyssen-Bornemisza Group NV; Pres. Bremer Vulkan Schiffbau und Maschinenfabrik, Bremen, Thyssengas GmbH, Duisburg; Dir. Heineken NV, Heineken Holding NV, Nederlandse Credietbank NV, Amsterdam; picture collection housed and exhibited in Villa Favorita, exhibited in Nat. Gallery, London 1961. *Address:* Villa Favorita, 6976 Castagnola di Lugano, Switzerland.

TIBANDEBAGE, Andrew Kajungu; Tanzanian diplomatist; b. circa 1921, Kasheshe; s. of Kajungu and Isabella; m. Catherine Mahuruzi 1946; two s. six d.; ed. Makerere Coll. and London Univ. Inst. of Education; Schoolteacher Tabora 1945-54, Headmaster Bugene Middle School, Karagwe 1955, Head of Mathematics Section, St. Thomas More Secondary School, Ihungo, Bukoba 1956-61; Ministry of External Affairs 1962-; Counsellor in London 1962; Head Tanganyika Embassy to Fed. Germany 1962-63, Amb. 1963-64; Amb. of Tanzania to the Congo (Kinshasa) 1964-67; Prin. Sec. at Ministry of Information and Tourism 1967; Tanzanian Amb. to France 1968-70; Personal Asst. to Pres. 1970-72; Amb. to Zaire (also accred. to Burundi and Rwanda) 1972-. *Leisure interest:* reading Dickens. *Address:* B.P. 1612, Kinshasa, Zaire.

TIEH YING; Chinese party official; Divisional Political Commissar, East China Field Army 1948; Deputy Dir. Mil. Tribunal, Nanking Mil. Region, PLA 1955; Sec. CCP Chekiang 1972-77; Vice-Chair. Chekiang Revolutionary Cttee. 1972-77; Political Commissar, Chekiang Mil. District, PLA 1972-; Alt. mem. 10th Cen. Cttee. CCP 1973; First Sec. CCP Chekiang, and Chair. Chekiang Revolutionary Cttee. 1977-; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

TIEMANN, Norbert Theodore; American businessman, administrator and former governor; b. 18 July July 1924, Minden, Neb.; s. of Martin William Tiemann and Alvina T. Rathert; m. Lorna Lou Bornholdt 1950; one s. three d.; ed. Univ. of Nebraska, Midland Lutheran Coll., Nebraska; Asst. County Agent, Lexington 1949-50; Asst. Man. Nebraska Hereford Assn. 1950; army service 1943-46, 1950-52; Exec. Sec. Nat. Livestock Feeders Assn., Omaha 1952; Dir. of Industry Relations Nat. Livestock and Meat Board, Chicago 1952-54; Mayor of Wausa 1957-70; Pres. Commercial State Bank, Wausa 1957-70; Republican Gov. of Nebraska 1967-71; Fed. Highway Admin. 1973-; mem. Board of Dirs. Lutheran Church of America; mem. American Legion. *Address:* 8440 Brook Road, McLean, Virginia 22101, U.S.A.

TIETJENS, Norman Orwig, PH.B. M.A., J.D.; American judge; b. 8 July 1903, Napoleon, O.; s. of Otto P. and Corinne H. (née Orwig)

Tietjens; m. Lucretia Larkin 1936; two d.; ed. Brown Univ. and Univ. of Michigan; admitted to Ohio Bar 1930; Assoc. Williams, Eversman and Morgan, Toledo 1930-32, private legal practice 1932-33; Special Counsel, Fed. Emergency Admin. of Public Works 1933-37; Counsel, U.S. Maritime Comm. 1937-38; Attorney, Office of Gen. Counsel, U.S. Treasury Dept. 1938-39, Asst. Gen. Counsel 1939-50; Judge, Tax Court of the U.S. 1950-61, Chief Judge 1961-67; retd. 1971; now recalled; Achievement Award of Tax Soc. of N.Y. Univ. 1964, and other awards. *Address:* 3509 Overlook Lane, Washington, D.C., U.S.A. (Home).

TIKHONOV, Andrey Nikolayevich; Soviet mathematician and geophysicist; b. 30 Oct. 1906, Gagarin, Smolensk Region; m. N. V. Golubkova 1934; two s. two d.; ed. Moscow State Univ.; Postgraduate, Junior Scientific Worker, Moscow State Univ. 1927-35; Senior Scientific Worker, Dept. of U.S.S.R. Acad. of Sciences Inst. of Theoretical Physics 1935-58; Deputy Dir. U.S.S.R. Acad. of Sciences Inst. of Applied Maths. 1953-, Dean of Faculty of Computer Maths. and Cybergenetics 1970-; Prof. Moscow State Univ. 1936; Corresp. mem. U.S.S.R. Acad. of Sciences 1939-66, mem. 1966-; Lenin Prize 1966, State Prizes 1953, 1976, Hero of Socialist Labour 1953, Order of Lenin (five times), and other decorations. *Publications:* Works on theoretical pluralistic topology, on mathematical physics and on geophysics. *Address:* U.S.S.R. Academy of Sciences, Institute of Applied Mathematics, Miusskaya Sq. 4, Moscow, U.S.S.R.

TIKHONOV, Nikolay Aleksandrovich; Soviet engineer and politician; b. 14 May 1905; ed. Dniepropetrovsk Metallurgical Inst.; Asst. locomotive driver, technician and student 1927-30; engineer, later Chief Engineer and Dir. Metallurgical plant, Dniepropetrovsk; Chief, main board of U.S.S.R. Ministry of Ferrous Metallurgy 1930-55; Deputy Minister of Ferrous Metallurgy 1955-57; Chair. Council of Dniepropetrovsk Econ. Region 1957-60; Vice-Chair. U.S.S.R. Scientific Econ. Council 1960-63; Vice-Chair. State Planning Cttee. (Gosplan) 1963-65; Vice-Chair. U.S.S.R. Council of Ministers 1965–; First Vice-Chair. Sept. 1976-; Can. mem. CPSU Cen. Cttee. 1961-66, mem. 1966-; Cand. mem. Politburo CPSU 1978-; Deputy to U.S.S.R. Supreme Soviet 1958-; Nat. Prize (twice), Order of Lenin (seven times), and other decorations. *Address:* Council of Ministers, The Kremlin, Moscow, U.S.S.R.

TILLINGHAST, Charles C., Jr., PH.B., J.D.; American lawyer and corporation executive; b. 30 Jan. 1911, Saxton's River, Vt.; s. of Charles C. and Adelaide Barrows (Shaw) Tillinghast; m. Lisette Micoleau 1935; one s. three d.; ed. Brown and Columbia Univs.; admitted N.Y. Bar 1935; Deputy Asst. Dist. Attorney N.Y. County 1938-40; partner, Hughes, Hubbard & Ewing and successor firm of Hughes, Hubbard, Blair & Reed 1942-57; Vice-Pres. and Dir. Bendix Corpn. and various subsidiaries and affiliates 1957-61; Pres., Chief Exec. Officer and Dir. Trans World Airlines Inc. 1961-69, Chair. and Chief Exec. Officer and Dir. 1969-76, Dir. 1976-, mem. Conference Board 1965-; mem. Cttee. for Econ. Devt. 1967-; Vice-Chair. White, Weld and Co. Inc. 1977-78; Chair. U.S. Dept. of Commerce, NIPCC 1970-73, Airlines and Aircraft Sub-council, NIPCC 1970-73; Vice-Pres. Merrill Lynch, Pierce, Fennert Smith Inc. April 1978-; Hon. L.H.D. (S. Dakota School of Mines and Technology 1959); Hon. LL.D. (Franklin Coll. 1963, Redlands Univ. 1964, Brown Univ. 1967, Drury Coll. 1967, William Jewel Coll. 1973. *Leisure interests:* golfing, shooting, gardening, woodworking. *Address:* One Liberty Plaza, New York, N.Y. 10080 (Office); 56 Oakledge Road, Bronxville, New York, N.Y. 10708, U.S.A. (Home).

TIMÁR, Dr. Mátyás; Hungarian politician; b. 1923, Mohács; m. Eva Vágó; two d.; ed. Univ. of Law; former leather worker; Hungarian Communist Party 1943-; fmr. teacher Faculty of State and Legal Sciences, Loránd Eötvös Univ. of Sciences; afterwards Head Finance Faculty, Karl Marx Univ. of Econs., Budapest; Ministry of Finance 1949-, Deputy Minister of Finance 1955-57, 1960-62, Minister of Finance 1962-67; Deputy Chair. Council of Ministers 1967-75; mem. Central Cttee. Hungarian Socialist Workers' Party 1966-, mem. Political Econ. Board attached to HSWP Cen. Cttee. 1975-; mem. State Planning Cttee. 1973-; Pres. Nat. Bank of Hungary 1975-. *Publications:* Economic Development and Directive Systems in Hungary 1968, Economic Policy in Hungary 1967-1973 1973. *Leisure interests:* tennis, hunting, gardening. *Address:* Office of the President of the National Bank of Hungary, Szabadságtér 8, H-1850, Budapest, Hungary. *Telephone:* 112-600.

TIMM, Bernhard, DR. PHIL. NAT.; German business executive; b. 1909, Pinneberg (Holstein); ed. Reformrealgymnasium Altona and Univ. of Heidelberg; worked in private laboratory of Prof. Dr. Carl Bosch, Heidelberg 1934-36; joined Badische Anilin- & Soda-Fabrik A.G. (BASF) (chemicals) 1936, Dir. 1950-, Deputy Chair. of Management Board 1952-65, Chair. 1965-74, Chair. Supervisory Board 1974-; Chair. Supervisory Board AEG Telefunken 1977-; Deputy Chair. Supervisory Board Mannheimer Versicherungsgesellschaft, Mannheim, Deutsche Shell A.G., Hamburg, Allgemeine Elektricitäts-Gesellschaft AEG-Telefunken, Berlin/Frankfurt; mem. Supervisory Bd. Continental Gummi-Werke A.G., Hanover, Hugo Stinnes A.G., Mülheim, Rhenus A.G., Mannheim; Chair. Verein zur Förderung der Krebsforschung in Deutschland e.V., Heidelberg; mem. Presidium of Assen. of German Chemical Industry, Frankfurt/Main; mem. Vorstandsrat des Deutschen Museums, Munich, Wissenschaftrats, Köln-Marienburg; mem. Kuratorium "Deutsche Sporthilfe", Frankfurt/Main; Hon. Prof. 1966, Hon. Dr.Ing. 1969, Hon. Senator 1969, Univ. of Heidelberg; Dr. rer. nat. h.c. (Univ. of Mainz) 1969; Castner Medal, Soc. of Chemical Industry, London 1970; Grosses Bundesverdienstkreuz mit Stern 1969. *Address:* 69 Heidelberg, Am Rosenbusch 1, Federal Republic of Germany.

TIMMIS, Denis William; Canadian pulp and paper company executive; b. 3 Dec. 1919, Bickley, England; ed. Wellington Coll., England; Trainee accountant Peat, Marwick, Mitchell & Co. 1938-47; army service in India, Burma 1939-46; Corporate Sec. Bowaters Newfoundland Pulp and Paper Mills Ltd. 1950; Corporate Sec. Bowater Southern Paper Corpn. 1952, Exec. Vice-Pres. 1957; Man. Dir. Tasman Pulp and Paper Co. Ltd., New Zealand 1960; Deputy Chair. Gen. Man. Bowaters U.K. Pulp and Paper Mills 1963; Consultant, Sandwell and Co. Ltd., Vancouver 1964, Pres. Sandwell and Co. Ltd. April 1978-; Man. Special Projects, MacMillan Bloedel Ltd. 1964, Group Vice-Pres. Pulp and Paper 1968, Exec. Vice-Pres. Operations 1970-73, Dir. 1970-76, Pres. and Chief Exec. Officer 1973-76; Dir. Canadian Gen. Electric. *Address:* 1310 West 33rd Avenue, Vancouver, B.C. V6M 1A5, Canada.

TIMMONS, Benson E. L., III, M.A.; American diplomatist; b. 2 March 1916, Sapulpa, Okla.; s. of Benson E. L. Timmons, Jr., and Mary Frances Jones; m. 1st Ruth Hunt, two s.; m. 2nd Sanya Bezencenet 1964; ed. Univ. of Georgia, and Balliol Coll., Oxford (Rhodes Scholar); Instructor in Econs., Univ. of Ga. 1937-38; Asst. to Dir., Foreign Funds Control, U.S. Treasury 1940-42; Lt.-Col. U.S. Army 1942-46; Exec. Asst. to Asst. Sec. of Treasury 1946-48; Deputy Dir., then Dir. of U.S. Economic Co-operation Mission to France 1948-55; Minister for Econ. Affairs, U.S. Embassy, Paris 1954-55; Dir., Office of European Regional Affairs, Dept. of State 1955-59; Counsellor and Consul-Gen., American Embassy, Stockholm, 1959-61; Minister and Deputy Chief. of Mission, American Embassy, New Delhi 1961-63; Amb. to Haiti 1963-67; Deputy Sec.-Gen., OECD 1967-73; U.S. Legion of Merit; Hon. M.B.E.; Officier Légion d'honneur; Chevalier Order of Saints Maurice and Lazarus (Italy); Officer Order of the Crown of Italy; Bronze Star (U.S.); Commdr. Nat. Order of Merit (Italy); Grand Cross, Order of Honour and Merit (Republic of Haiti). *Leisure interests:* boating, riding, reading, art. *Address:* P.O. Box 1178, Southampton, N.Y. 11968, U.S.A. *Telephone:* (516) 283-2383.

TIMOFEYEV, Nikolay Vladimirovich; Soviet politician; b. 1913; ed. Urals Forestry Engineering Inst.; former stevedore, Siberia; later Chief Engineer and Dir. timber enterprise 1935-50; Chief Engineer East Siberian Timber Trust 1950-55; Deputy Minister of Paper and Woodworking Industry 1955-56, Minister 1956-57; Chair. Econ. Council, Kostroma 1957-62, North West 1962-65; Minister of Timber, Paper, Pulp and Woodworking Industry, U.S.S.R. 1965-68, of Timber and Woodworking Industry 1968-; mem. CPSU 1943-; mem. Cen. Auditing Comm. 1966-76; Cand. mem. Cen. Cttee. CPSU 1976-; Deputy to U.S.S.R. Supreme Soviet 1966-; awarded Orders of Red Star, Badge of Honour and other decorations. *Address:* U.S.S.R. Ministry of Timber and Woodworking Industry, 2/16 Ul. Gritsevets, Moscow, U.S.S.R.

TIMOFEYEVA, Nina Vladimirovna; Soviet ballet dancer; b. 11 June 1935, Leningrad; ed. Leningrad Ballet School; with Ballet Company of the Leningrad Kirov State Academic Theatre of Opera and Ballet 1953-56; Deputy to Supreme Soviet of the U.S.S.R.; mem. Bolshoi Theatre 1956-; has toured with Bolshoi Ballet in U.S.A., Fed. Repub. of Germany and other countries; People's Artist of the R.S.F.S.R. 1963; People's Artist of U.S.S.R. 1969; prizewinner at three int. classic dance competitions; various decorations. *Principal roles:* Odette-Odile (Swan Lake), Marta (Giselle), Laurensia (Laurensia), Yegina (Spartacus), Kitri (Don Quixote), Mistress of the Copper Mountain (Stone Flower), Diane Mireille (Flames of Paris), Gayane (Gayane), Raymonda (Raymonda), Princess Aurora (Sleeping Beauty), Leili (Leili and Medjnun), Mekhmene Banu (Legend of Love), Giselle (Giselle), Asel (Asel), Bacchante (Faust), Masha (Nutcracker), Shopeniana. *Address:* State Academic Bolshoi Theatre of the U.S.S.R., ploshchad Sverdlova 1, Moscow, U.S.S.R.

TINBERGEN, Jan; Netherlands economist; b. 12 April 1903, The Hague; s. of Dr. D. C. Tinbergen and Jeannette van Eek; m. Tine Johanna De Wit 1929; four d.; ed. Leiden Univ. (Doctor of Physics); Staff of Central Bureau of Statistics, The Hague 1929-36, 1938-45; Business cycle research expert, League of Nations, Geneva 1936-38; Dir. Central Planning Bureau, The Hague 1945-55; Prof. of Development Planning, Univ. of Rotterdam 1933-73, Leiden 1973-75; mem. Netherlands Acad. of Sciences; Erasmus Prize 1967; Nobel Prize for Econs. 1969. *Publications:* Business Cycles in the U.S.A. 1919-1939 1939, On the Theory of Economic Policy 1952, Economic Policy: Principles and Design 1956, Selected Papers 1959, Shaping the World Economy 1962, Development Planning 1968, Income Distribution 1975. *Leisure interests:* grandchildren, languages, drawing. *Address:* Haviklaan 31, 2566XD The Hague, Netherlands. *Telephone:* 070-644630.

TINBERGEN, Nikolaas, PH.D., F.R.S.; British zoologist; b. 15 April 1907, The Hague, Netherlands; s. of Dirk C. Tinbergen and Jeannette van Eek; m. Elisabeth A. Rutten 1932; two s. three d.; ed. High School, The Hague, Univ. of Leiden, Netherlands, and Vienna and Yale, U.S.A.; Prof. Emer. Experimental Zoology, Leiden 1947; Lecturer in Animal Behaviour, Oxford Univ. 1949, Reader 1960, Prof. 1966-74; naturalized British citizen 1955; Hon. mem. many learned socs.; Hon. D.Sc. (Edinburgh, Leicester); Bölsche Medal; Italia Prize TV documentaries 1969; Godman-Salvin Medal, Jan Swammerdam Medal; Nobel Prize for Physiology or Medicine 1973. *Publications:* The Study of Instinct 1951, The Herring Gull's World 1953, Curious Naturalists 1958, Animal Behaviour 1965, Signals for Survival (filmed with Hugh Falkus) 1970, Early Childhood Autism (with E. A. Tinbergen) 1972, The Animal in its World, Vol. 1 1972, Vol. II 1973, Social Behaviour in Animals 1973. *Leisure interests:* drawing, photography, observing animals and people. *Address:* 88 Lonsdale Road, Oxford, OX2 7ER, England. *Telephone:* Oxford 58662.

TINDEMANS, Leo; Belgian politician; b. 16 April 1922, Zwijndrecht; m. Rosa Naesens 1960; two s. two d.; ed. State Univ. of Ghent, Catholic Univ. of Louvain; mem. Chamber of Deputies 1961-; Mayor of Edegem 1965-76; Minister of Community Affairs (Dutch speaking) 1968-71; Minister of Agric. and Middle Class Affairs 1972-73; Deputy Prime Minister and Minister for the Budget and Institutional Problems 1973-74; Prime Minister 1974-78; Vice-Pres. European Union of Christian Democrats; Pres. European People's Party; mem. European Parl. 1979-; Visiting Prof., Faculty of Social Sciences, Catholic Univ., Louvain; Hon. D.Litt. (City Univ. London) 1976; Charlemagne Prize 1976; St.-Liborius-Medaille für Einheit und Frieden 1977; Christian Socialist. *Publications:* Ontwikkeling van de Benelux 1958, L'autonomie culturelle 1971, Regionalized Belgium, Transition from the Nation State to the Multinational State 1972, Een handvest voor woelig België 1972, Dagboek van de werkgroep Eyskens 1973, European Union 1975, Europe, Ideal of our Generation 1976. *Leisure interests:* reading, writing, walking. *Address:* Jan Verbertlei 24, B-2520 Edegem, Belgium (Home). *Telephone:* 02/513-80-20 (Office).

TINÉ, Jacques Wilfrid Jean Francis, L.END.; French diplomatist; b. 24 May 1914, Algiers; s. of Edouard Tiné and René Pittaluga; m. Helena Terry 1948; one s. one d.; ed. Lycée d'Alger, Faculté de Droit and Ecole Libre des Sciences Politiques, Paris; entered diplomatic service 1938; Counsellor French Embassy, Copenhagen 1949-50, UN 1950-55, London 1955-61; Minister Plenipotentiary, Rabat, Morocco 1961; Deputy Perm. Rep. to UN 1963-67; Dir. for Europe, Ministry for Foreign Affairs 1967-69; Amb. to Portugal 1969-73; Diplomatic Counsellor to the Govt. 1973-75; Perm. Rep. to NATO 1975-; Pres. Office Nat. de Diffusion Artistique; Officier de la Légion d'honneur, Croix de guerre, Commdr de l'Ordre national du Mérite, Commdr des Arts et Lettres. *Address:* 120 rue de Bac, 75007 Paris, France. *Telephone:* 548-0876; 422-2777.

TING, Samuel Chao Chung, B.S.E., PH.D.; American physicist; b. 27 Jan. 1936, Ann Arbor, Mich.; s. of Prof. Kuan Hai Ting and Prof. Tsun-Ying Wang; m. Kay Louise Kuhne 1960; two d.; ed. primary and secondary schools in China, Univ. of Michigan; Ford Foundation Fellow, European Org. for Nuclear Research (CERN), Geneva 1963; Instructor, Columbia Univ., N.Y. 1964, Asst. Prof. 1965-67; Group Leader, Deutsches Elektronen Synchrotron (DESY), Hamburg, Fed. Repub. of Germany 1966; Assoc. Prof. of Physics, M.I.T., Cambridge 1967-68, Prof. 1969-; Programme Consultant, Div. of Particles and Fields, American Physical Soc. 1970; Thomas Dudley Cabot Inst. Prof., M.I.T. 1977; Assoc. Ed. Nuclear Physics B 1970; mem. Editorial Board Nuclear Instruments and Methods 1977; worked chiefly on physics of electron or muon pairs, investigating quantum electro-dynamics, production and decay of photon-like particles, searching for new particles which decay to electron or muon pairs; Fellow, American Acad. of Arts and Sciences 1975; mem. American, Italian and European Physical Socs.; Hon. Sc.D. (Michigan) 1978; Ernest Orlando Lawrence Award 1976, Nobel Prize for Physics, jointly with Burton Richter (*q.v.*), for discovery of the heavy, long-lived 'J' (or 'psi') particle 1976. *Address:* Massachusetts Institute of Technology, 51 Vassar Street, Mass. 02139 (Office); 15 Moon Hill Road, Lexington, Mass. 02173, U.S.A. (Home).

TINKHAM, Michael, M.S., PH.D.; American professor of physics; b. 23 Feb. 1928, near Ripon, Wis.; s. of Clayton H. and Laverna Krause Tinkham; m. Mary S. Merin 1961; two s.; ed. Ripon Coll., Ripon, Wis., Mass. Inst. of Technology (M.I.T.) and Univ. of Oxford; Research Asst., Univ. of Calif. (Berkeley) 1955-57, Asst. Prof. of Physics 1957-59, Assoc. Prof. of Physics 1959-61, Prof. of Physics 1961-66; Gordon McKay Prof. of Applied Physics and Prof. of Physics, Harvard Univ. 1966-, Chair. Dept. of Physics 1975-78; Richtmyer Lecturer (of American Physical Soc. and American Assen. of Physics Teachers) 1977; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Guggenheim Fellow 1963-64; Buckley Prize 1974; Awardee, Alexander von Humboldt Foundation 1978-79. *Publications:* Group Theory and Quantum Mechanics 1964, Superconductivity 1965, Introduction to Superconductivity 1975; numerous articles in journals. *Address:* Department of Physics, Harvard University, Cambridge, Mass. 02138 (Office); 98 Rutledge Road, Belmont, Mass. 02178, U.S.A. (Home). *Telephone:* 617-495-3735 (Office).

TINSLEY, Right Rev. Ernest John, M.A., B.D.; British ecclesiastic; b. 22 March 1919, Maghull, Lancashire; s. of Ernest William and Esther Tinsley; m. Marjorie Dixon 1947 (died 1977); two d.; ed. Univ. of Durham and Westcott House, Cambridge; Lecturer in Theology, Univ. Coll., Hull 1946-54, Lecturer in charge of Dept. of Theology 1954-61, Senior Lecturer and Head of Dept. 1961-62; Prof. of Theology and Head of Dept., Leeds Univ. 1962-75; Anglican Bishop of Bristol Jan. 1976-; Special Lecturer, Bristol Univ. 1976-. *Publications:* The Imitation of God in Christ 1960, The Gospel According to Luke 1964, Modern Theology (five vols.) 1973. *Leisure interests:* gardening, travel. *Address:* Bishop's House, Clifton Hill, Clifton, Bristol, BS8 1BW, England. *Telephone:* 30222.

TIOMKIN, Dimitri; American (naturalized) composer; b. 1899, near St. Petersburg (now Leningrad), Russia; m. 1st Albertina Rasch 1927 (died 1967), 2nd Olivia Cynthia Patch 1972; ed. St. Petersburg Conservatory; studied under Glazunov in St. Petersburg and under Busoni in Berlin; commenced musical career as a pianist making frequent appearances as soloist with the Berlin Philharmonic Orchestra during 1920's; gave two-piano recitals in Paris with his colleague Raskov; debut at Carnegie Hall, New York 1926; composed film score for Alice in Wonderland 1933, followed by Lost Horizon 1937; co-producer (with Carl Foreman *q.v.*), McKenna's Gold; exec. producer and general music dir. of the Soviet-American film on the life of Tchaikovsky; Hon. Life mem. American Inst. of Fine Arts; Chevalier, Légion d'honneur; Chevalier, Ordre des Arts et des Lettres; Cruz de Caballero Orden de Isabel la Católica; four Academy Awards (Oscars) for film scores and numerous other awards; has composed scores for over 160 films including: The Moon and Sixpence, Dial M for Murder, I Confess, Shadow of a Doubt, Friendly Persuasion, Giant, The Court Martial of Billy Mitchell, 55 Days at Peking, The Alamo, The Fall of the Roman Empire, High Noon, The High and the Mighty, The Old Man and the Sea, The Guns of Navarone, The Sundowners, The Long Night. *Publication:* Please Don't Hate Me. *Address:* Suite 2270, 1900 Avenue of the Stars, Los Angeles, Calif. 90065, U.S.A.

TIPPETT, Sir Michael Kemp, Kt., C.H., C.B.E.; British composer; b. 2 Jan. 1905, London; s. of Henry William and Isabel (Kemp) Tippett; ed. Royal Coll. of Music; taught at Hazelwood School until 1931; Dir. of Music, Morley Coll. 1940-52; Dir. Bath Festival 1970-73; Pres. Kent Opera 1978-; Hon. mem. American Acad. of Arts and Letters 1973; Hon. D.Mus.(Cantab.) 1964, (Leeds) 1964, (Dublin) 1965, (Oxford) 1967, (Bristol) 1970; Hon. Dr. Univ. (York) 1966; Hon. D.Litt.(Warwick) 1974; Gold Medal of Royal Philharmonic Soc. 1976. *Works include:* String Quartet No. 1 1935, Piano Sonata No. 1 1937, Concerto for Double String Orchestra 1939, A Child of Our Time 1941, Fantasia on a Theme of Handel for Piano and Orchestra 1942, String Quartet No. 2 1943, Symphony No. 1 1945, String Quartet No. 3 1946, Little Music for Strings 1946, Suite for the Birthday of Prince Charles (Suite in D) 1948, The Heart's Assurance 1951, The Midsummer Marriage 1952, Fantasia Concertante on a Theme of Corelli for String Orchestra 1953, Divertimento on "Sellinger's Round", for Chamber Orchestra 1953-54, Concerto for Piano and Orchestra 1955, Sonata for Four Horns 1955, Symphony No. 2 1957, Crown of the Year 1958, King Priam (opera) 1961, Magnificat and Nunc Dimittis 1962, Piano Sonata

No. 2 1962, Incidental Music to The Tempest 1962, Praeludium for Brass, Bells and Percussion 1962, Concerto for Orchestra 1963, The Vision of St. Augustine 1966, The Knot Garden (opera) 1969, The Shires Suite 1965-70, Songs for Dov 1970, Symphony No. 3 1972, Piano Sonata No. 3 1973, The Ice Break (opera) 1976, Symphony No. 4 1977, String Quartet No. 4. *Publications:* Moving into Aquarius 1959. *Address:* c/o Schott & Co., 48 Great Marlborough Street, London, W1V 2BN, England. *Telephone:* 01-437 1246.

TIRIKATENE-SULLIVAN, The Hon. Tini Whetu Marama, B.A., DIP.SOC.SCI., F.R.A.I.; New Zealand social worker and politician; b. 9 Jan. 1932, Ratana Pa, Via Wanganui; d. of the late Hon. Sir Eruera Tirikatene and of Lady Tirikatene; m. Dr. Denis Sullivan; one s. one d.; ed. Rangiora High School, Victoria Univ. of Wellington, Nat. Univ. of Australia. Sec. N.Z. Labour Party's Maori Policy Cttee. 1949-60, Joint Sec. 1960-63, 1963-65, Exec. mem. 1967-; Sec., Royal Tour Staff for visit of H.M. Queen Elizabeth II and H.R.H. The Duke of Edinburgh 1953-54; fmr. Social Worker, Depts. of Maori Affairs, Social Security and Child Welfare; mem. for Southern Maori House of Reps. 1967-; Minister of Tourism 1972-75; Assoc. Minister of Social Welfare 1972-74; Minister for the Environment 1974-75. *Leisure interests:* dress designing, fabric printing, ethnic handicrafts, Ikebana floral arrangement. *Address:* Parliament Buildings, Wellington; Kaiapoi, North Canterbury, New Zealand (Home).

TISHLER, Max, M.S., PH.D.; American organic and medicinal chemist and university professor; b. 30 Oct. 1906, Boston, Mass.; s. of Samuel and Anna Gray Tishler; m. Elizabeth M. Verveer 1934; two s.; ed. Tufts Coll. and Harvard Univ. Research Assoc. Harvard Univ. 1934-36, Instructor in Chem. 1936-37; Research Chemist Merck & Co., Inc. 1937-41, Section Head in charge of Process Devt. 1941-44, Dir. of Devt. Research 1944-53, Vice-Pres. for Scientific Activities 1954-56; Vice-Pres. and Exec. Dir. Merck Sharp & Dohme Research Labs. Div. 1956-57, Pres. 1957-69; mem. Board of Dirs. Merck & Co., Inc., 1962-, Senior Vice-Pres. Research and Devt. 1969-70; Univ. Prof. of Sciences, Chair. Dept. of Chemistry, Wesleyan Univ. Middletown, Conn. 1970-; Co-editor Chemistry and the Economy, American Chemical Soc.; mem. Editorial Board Separation Science; mem. Science Board of Govs. Weizmann Inst.; Trustee Tufts Univ., Union Coll.; mem. numerous advisory councils and cttees. of various educational orgs.; fmr. mem. Board of Dirs. and Awards Cttee. Industrial Research Inst., Assen. Harvard Chemists (Pres. 1946); mem. Council for Analysis and Projections, American Cancer Soc. 1973-, Board Scientific Advisers, Sloan Kettering Inst. 1974-, Research and Devt. Section Pharmaceutical Manufacturers Assen., etc.; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Assen. for Advancement of Science, American Chem. Soc. (Chair. Organic Chem. Div. 1951, Pres. 1972), Soc. of Chemical Industry (Chair. American Section 1966-67, Hon. Vice-Pres. 1968), American Inst. of Chemists, N.Y. Acad. of Sciences, Chem. Soc. (London), Chem. Soc. of Japan, Swiss Chem. Soc., Conn. Acad. of Arts and Sciences, hon. mem. Société Chimique de France, American Pharmaceutical Assen., Chemist Club, New York; Fellow, Acad. of Pharmaceutical Sciences and Eng., Conn. Acad. of Science and Eng.; Life Fellow, American Inst. of Chemists 1977; Dir. Royal Soc. of Medicine Foundation; Hon. D.Sc. (Tufts, Bucknell, Philadelphia Coll. of Pharmacy and Science, Upsala Coll., Univ. of Strathclyde, Rider Coll., Fairfield Univ.); Hon. D.Eng. (Stevens Inst. of Tech.); numerous honours and awards including Industrial Research Inst. Award 1961, Chem. Industry Medal of Soc. of Chem. Industry 1963, Chem. Pioneer Award of American Inst. of Chemists 1968, Priestley Medal of American Chem. Soc. 1970, Gold Medal of American Inst. of Chemists 1977. *Publications:* Co-author: Chemistry of Organic Compounds 1937; Streptomycin 1949; Editor-in-Chief, Organic Syntheses Vol. 1939; over 100 scientific publs. in the fields of vitamins, steroids, antibiotics, sulfonamides. *Leisure interests:* horticulture. *Address:* Department of Chemistry, Wesleyan University, Middletown, Conn. 06457 (Office); 6 Red Orange Road, Middletown, Conn. 06457, U.S.A. (Home).

TITO, Marshal (Josip Brož); Yugoslav politician; b. 25 May 1892; s. of Franjo and Marija Brož; m. 3rd Jovanka Budisavljevik 1952; two s.; mechanic; served in Austro-Hungarian Army 1914-15; imprisoned in Russian concentration camps 1915-17; participated in the Russian revolution; returned to Yugoslavia and worked as machinist and mechanic until 1927; Dist. Sec. of trade union of metal workers 1927-28; took active part in illegal Yugoslav Communist Party; sentenced to six years' imprisonment for conspiracy 1928; after release left the country, helped recruit Yugoslavs for the Int. Brigade in Spanish Civil War 1936-38; returned to Yugoslavia before World War II; after the German invasion organized Partisan Forces; elected Marshal of Yugoslavia and Pres. Nat. Liberation Cttee. 1943; Prime Minister and Minister of Nat. Defence 1945-53; Pres. of the Republic 1953-, Life Pres. 1974; Gen Sec. CP Secr. 1953-66, Chair. League of Communists 1966-, and Supreme Commdr. of the Armed Forces 1953-; Nat. Hero decoration (three times), Order of Lenin (U.S.S.R.), Hon. G.C.B. 1972, Jawaharlal Nehru Award for Int. Understanding 1974. *Address:* Office of the President of the Republic, Belgrade, Yugoslavia.

TITOV, Maj.-Gen. German Stepanovich; Soviet air force officer and cosmonaut; b. 11 Sept. 1935; ed. secondary school, Volgograd Pilots' School and Zhukovsky Air Force Eng. Acad.; training for space flight 1960-61; in space-ship Vostok II circled earth 17 times during a journey of 25 hours 11 minutes 6-7 Aug. 1961; mem. Young Communists' League; Cand. mem. Communist Party until 1961, mem. 1961-; graduate, Zhukovsky Air Force Engineering Acad. 1968; K.E. Voroshilov Acad. of Gen. Staff 1972-; Deputy, Supreme Soviet of U.S.S.R. 1962-70; Major-Gen. of Air Force 1975-; Pres. Viet-Nam-Soviet Friendship Soc.; Hero Soviet Union 1961, Order of Lenin (twice), Gold Star Medal, and other awards. *Publications:* Seventeen Cosmic Dawns 1963, 700,000 km. in Space 1961, My Sky-blue Planet 1973. *Address:* Zvezdny Gorodok, Moscow, U.S.S.R.

TIXIER, Claude, L. ès L., D. ès D.; French economist; b. 22 Nov. 1913, Paris; m. Simone Lamy 1939; two s. three d.; ed. Arts and Law Faculties and Ecole des Sciences Politiques, Univ. of Paris; Deputy Insp. of Finances 1939, Insp. of Finances 1942; Deputy Dir. to Ministry of Nat. Economy 1945; Chief, Service of Econ. Survey 1946; Dir. Cabinet of Sec. of State for the Budget 1947; Deputy Dir. Cabinet of Minister of Finances 1948; Dir. Cabinet of Prime Minister (Finances) 1948; Dir. Cabinet of Minister of Finances 1949; Dir.-Gen. of Finances to the Algerian Ministry, Algiers 1949-58; Vice-Pres. EIB 1958-62; Pres. and Dir.-Gen. Banque Industrielle de Financement et Crédit 1962-67; Vice-Pres. Banque Worms 1967; Pres. Unibail 1974; Pres. Foncière 1978; Chevalier de la Légion d'honneur. *Leisure interests:* theory of numbers, cosmology. *Address:* 45 boulevard Haussmann, 75009 Paris (Office); 5 square des Ecrivains Combattants, 75016 Paris, France (Home). *Telephone:* 260-3520 (Office); 224-62-55 (Home).

TIZARD, Robert James, M.A.; New Zealand teacher and politician; b. 7 June 1924, Auckland; s. of Henry James and Jessie Mae Tizard (née Philips); m. Catherine Anne Maclean 1951; one s. three d.; ed. Auckland Grammar School, Auckland Univ.; served in R.N.Z.A.F., Canada, U.K. 1942-46; Junior Lecturer in History, Auckland Univ. 1949-53, teaching posts 1955-57, 1961-62; mem. Parl. 1957-60, 1963-; Minister of Health and State Services 1972-74; in charge of State Advances Corpn. 1972-73; Deputy Prime Minister, Minister of Finance 1974-75; Deputy Leader of Opposition Dec. 1975-. *Leisure interests:* golf, squash. *Address:* Parliament Buildings, Wellington; 84A Beresford Street, Auckland 1, New Zealand (Home).

TLASS, Maj.-Gen. Mustapha el-; Syrian army officer and politician; b. 11 May 1932, Rastan City, Mouhafazat Homs; m. Lamyaa al-Jabri 1958; two s. two d.; ed. Mil. and Law Colls. and Voroshilov Acad., Moscow; active mem. Baath Arab Socialist Party 1947-, Sec. of Rastan Section 1951; Sports teacher, Al-Kraya School, Mouhafazat al-Soueda 1950-52; attended Mil. Coll. 1952-54; deputed to Egyptian army 1959-61; Insp. Ministry of Supply 1962; mem. Free Officers' Movement 1962-63, detained 1962-63; Commdr. Tank Bn. and Chief of Cen. Region of Nat. Security Court 1963; Chief of Staff, 5th Armoured Brigade 1964-66; mem. Regional Command, Regional Congress of Baath Arab Socialist Party 1965, 1968, 1969, 1975, of Politbureau 1969-, of Nat. Council of Revolution 1965-71; participated in movement of 23 Feb., promoted to Commdr. of Cen. Region and of 5th Armoured Brigade; rank of Maj.-Gen. Feb. 1968-, Chief of Staff of Armed Forces 1968-70, First Deputy Minister of Defence 1968-72; participated in correctional movement installing Pres. Hafez Al-Assad Nov. 1970; First Deputy C.-in-C. Armed Forces 1970-72, Deputy C.-in-C. 1972-; mem. People's Council 1971-; Minister of Defence 1972-; Deputy Chief of Joint Supreme Mil. Council of Syrian and Egyptian Armed Forces 1973; 22 orders and medals. *Publications:* Guerilla War, Military Studies, An Introduction to Zionist Strategy, The Arab Prophet and Technique of War, The Armoured Brigade as an Advanced Guard, Bitter Memories in the Military Prison of Mezzah, The Fourth War between Arabs and Israel, The Second Chapter of the October Liberation War, Selections of Arab Poetry. *Leisure interests:* reading and writing books, military and historical studies. *Address:* Ministry of Defence, Damascus, Syria.

TO HUU; Vietnamese poet and politician; b. 1920, Central Viet-Nam; poet and leading intellectual; in charge of propaganda and ideological training in Lao Dong Party (now Communist Party of

Viet-Nam); alt. mem. Politbureau, Communist Party of Viet-Nam Dec. 1976-; also mem. Secretariat of party. *Address:* Central Committee of the Communist Party of Viet-Nam, No. 1-C, rue Hoang Van Thu, Hanoi, Viet-Nam.

TOBIAS, Phillip Vallentine, PH.D., D.SC., M.B.B.CH.; South African professor of anatomy; b. 14 Oct. 1925, Durban; s. of the late Joseph Newman Tobias and Fanny Norden (née Rosendorff); ed. St. Andrew's School, Bloemfontein, Durban High School, Univ. of the Witwatersrand and Emmanuel Coll., Cambridge. Lecturer in Anatomy, Univ. of Witwatersrand 1951-52, Senior Lecturer 1953, Prof. and Head of Anatomy Dept. 1958-; Visiting Prof. Cambridge Univ.; founder Pres. Inst. for the Study of Man in Africa, Anatomical Soc. of Southern Africa, South African Soc. for Quaternary Research; mem. numerous int. asscns.; Fellow, Royal Anthropological Inst. of Great Britain and Ireland, Royal Soc. of South Africa, Linnean Soc. of London; sometime Vice-Pres. and acting Exec. Pres. South African Assen. for the Advancement of Science; Pres. Royal Soc. of South Africa 1970-72; Perm. Council mem. Int. Union of Prehistoric and Protohistoric Sciences, Pan-African Congress of Prehistory and Quaternary Studies, Int. Assen. of Human Biologists; Trustee, Leakey Foundation, Pasadena, Calif.; Hon. Prof. of Palaeoanthropology, Bernard Price Inst. for Palaeontological Research; British Assen. Medal 1952; Simon Biesheuvel Medal 1966; South African Medal 1967; Senior Captain Scott Medal 1973; Rivers Memorial Medal 1978. *Publications:* Chromosomes, Sex-cells and Evolution 1956, Olduvai Gorge Vol. II 1967, Man's Anatomy (with M. Arnold) 1968, The Brain in Hominid Evolution 1971, The Meaning of Race 1972, The Bushmen 1978; many articles in scientific journals. *Leisure interests:* archaeology, philately, music, books, people. *Address:* Department of Anatomy, University of the Witwatersrand Medical School, Hospital Street, Johannesburg (Office); 602 Marble Arch, 36 Goldreich Street, Hillbrow, Johannesburg, South Africa (Home). *Telephone:* 724-1561 (Office); 642-9176 (Home).

TOBIN, James, PH.D.; American economist; b. 5 March 1918, Champaign, Ill.; s. of late Louis Michael and of Margaret Edgerton; m. Elizabeth Ringo 1946; three s. one d.; ed. Harvard Univ.; U.S. Navy 1942-46; Teaching Fellow in Econs., Harvard Univ. 1946-47, Junior Fellow 1947-50; Assoc. Prof. of Econs., Yale Univ. 1950-55, Prof. 1955-57, Dir. Cowles Foundation for Research in Econs., Yale Univ. 1955-61, Sterling Prof. of Econs., Yale Univ. 1957- (on leave 1961-62), Chair. Dept. of Econs. 1974-76; Visiting Prof. Univ. of Nairobi, Kenya 1972-73; mem. President's Council of Economic Advisers 1961-62; mem. Nat. Acad. of Sciences 1972-. *Publications:* National Economic Policy 1966, Essays in Economics Vol. I Macroeconomics 1972, Vol. II Consumption and Econometrics 1975. *Leisure interests:* skiing, sailing, tennis. *Address:* Yale University, New Haven, Conn. 06520 (Office); 117 Alden Avenue, New Haven, Conn. 06515 (Home). *Telephone:* 203-436-2330.

TOBRINER, Walter N.; American lawyer; b. 2 July 1902, Washington, D.C.; s. of Leon Tobriner and Blanche Barth Tobriner; m. Marienne E. Smith 1933; one s. one d.; ed. Friends School, Washington, Princeton Univ., and Harvard Univ. Law School; legal practice, Washington 1926-61; Prof. of Law, Nat. Univ. Law School 1930-50; Army Service 1943-46; mem. Board of Educ. 1952-57. Pres. 1957-61; Pres., Board of Commissioners, District of Columbia 1961-67; Amb. to Jamaica 1967-69; Consultant, Agency for Int. Devt. 1969; mem. Cttee. of 100 on The Fed. City 1974-; Chair. Nat. Capital Housing Authority; mem. D.C. Armory Board 1961-67. *Leisure interest:* woodworking. *Address:* 6100 33rd Street, N.W., Washington, D.C. 20015, U.S.A.

TODD, Baron (Life Peer), cr. 1962, of Trumpington in the County of Cambridge; **Alexander Robertus Todd,** O.M., D.SC., D.PHIL., F.R.S.; British chemist; b. 2 Oct. 1907, Glasgow; s. of Alexander Todd, J.P.; m. Alison Sarah Dale 1937; one s. two d.; ed. Glasgow, Frankfurt-am-Main and Oxford Univs.; Asst. in Medical Chemistry 1934-35, Beit Memorial Research Fellow 1935-36, Edinburgh Univ.; mem. staff Lister Inst. Preventive Medicine, London 1936-38; Sir Samuel Hall Prof. of Chemistry and Dir. Chemical Laboratories Manchester Univ. 1938-44; Prof. Organic Chemistry Cambridge Univ. 1944-71, Master, Christ's Coll. 1963-78; Man. Trustee, Nuffield Foundation 1950-73, Chair. 1973-; Chair. Advisory Council on Scientific Policy 1952-64; Pres. Chemical Soc. 1960-62; Master, Salters' Co. 1961-62; Chancellor, Univ. of Strathclyde 1965-; Chair. Royal Comm. on Medical Educ. 1965-68; Chair. Govs. United Cambs. Hospitals 1969-74; Pres. Royal Soc. 1975-; Trustee, Ciba Foundation; foreign mem. Indian Nat. Acad. of Science, Polish Acad. of Sciences, Nat. Acad. of Sciences, U.S.A., Österreichische Akad. der Wissenschaften, Ghana Acad. of Sciences, Akad. Naturf. Halle, American Acad. of Arts and Sciences, American Phil. Soc., Australian Acad. Sciences, Japan Acad., Imperial Iranian Acad. of Sciences, Royal Soc., Edinburgh; Hon. mem. Royal Australian Chemical Inst.; Hon. Fellow, Royal Coll. Physicians, London, Inst. Mechanical Engineers, Oriel Coll., Oxford, Churchill Coll., Cambridge, Univ. of Manchester Inst. of Science and Tech.; Hon. LL.D. (Glasgow, Calif., Edinburgh and Manchester); Hon. D.Litt. (Sydney Univ., Widener Coll., Pa.); Hon. Dr.rer.nat. (Kiel); Hon. D.Sc. (Durham, London, Madrid, Exeter, Leicester, Melbourne, Aligarth, Wales, Yale, Sheffield, Harvard, Adelaide, Australian Nat. Univ., Liverpool, Oxford, Warwick, Paris, Michigan, Strasbourg, Strathclyde); Hon. Sc.D. (Cambridge); awarded Meldola Medal 1936; Lavoisier Medal, French Chemical Soc. 1948; Davy Medal of Royal Soc. 1949; Royal Medal 1955; Nobel Prize for Chem. 1957; Cannizarro Medal, Italian Chemical Soc. 1958; Longstaff Medal, Chemical Soc. of London 1963; Copley Medal, Royal Soc. 1970; Ordre pour le Mérite (Fed. Repub. of Germany); Second Class Order of Rising Sun (Japan). *Address:* c/o The Royal Society, 6 Carlton House Terrace, London, S.W.1, England.

TODD, (Reginald Stephen) Garfield, D.D.; Rhodesian rancher and politician; b. 13 July 1908, Invercargill, New Zealand; s. of Thomas and the late Edith Todd; m. Jean Grace Wilson; three d.; ed. Otago Univ., Univ. of Witwatersrand, and Glen Leith Theological Coll.; worked with Thomas Todd & Sons Ltd., Invercargill, N.Z.; Supt. Dadaya Mission, Southern Rhodesia 1934-53, Chair. Governing Board 1963-; M.P. 1946-58; Pres. United Rhodesia Party 1953-58; Prime Minister 1953-58; Minister of Labour 1954-58, of Native Educ. 1955-57, of Labour and Social Welfare 1958; founded (with Sir John Moffat) Central Africa Party 1959, Pres. 1959-60; founded New African Party, July 1961; Dir. Hokonui Ranching Co. Ltd.; restricted to his ranch for 12 months Oct. 1965; imprisoned Jan. 1972, under house arrest 1972-76; Adviser to Joshua Nkomo (*q.v*) at Constitutional Conf. on Rhodesia, Geneva 1976; Hon. LL.D. *Leisure interest:* Chair. Governing Board of Dadaya Mission (religious and educational). *Address:* P.O. Dadaya, Zimbabwe Rhodesia. *Telephone:* 01222 Shabami.

TODD, Richard Andrew Palethorpe; British actor and producer; b. 11 June 1919, Dublin, Ireland; s. of Major A.W. and Marvilla Palethorpe Todd (née Agar-Daly); m. 1st Catherine Stewart Crawford Grant-Bogle 1949 (divorced 1970), one s. one d.; m. 2nd Virginia Anne Rollo Mailer 1970, two s.; ed. Shrewsbury, privately; began theatrical career, London 1937; founder-mem. Dundee Repertory Co. 1938-39, rejoined 1947; entered film industry in For Them That Trespass 1948, *other films include:* The Hasty Heart 1949, Stage Fright 1950, Lightning Strikes Twice (U.S.A.) 1951, Robin Hood 1952, Twenty-Four Hours of ■ Woman's Life, The Venetian Bird 1953, Rob Roy 1954, The Sword and the Rose 1954, The Dam Busters 1955, A Man Called Peter 1955, The Virgin Queen (U.S.A.) 1955, The Sixth of June, Yangtse Incident 1956, Saint Joan, Chase ■ Crooked Shadow 1957, The Naked Earth, Danger Within 1958, The Long, the Short and the Tall 1959, Don't Bother to Knock (for own film co. Haileywood Films Ltd.) 1960, The Hellions 1960, Never Let Go 1961, The Longest Day 1962, The Boys 1962, Sanders 1963, Operation Crossbow 1965, Coast of Skeletons 1965, The Last of the Long-Haired Boys 1968, Dorian Gray 1970, Asylum 1972; returned to London stage as Lord Goring (An Ideal Husband), tour of S.A. 1965, Nicholas Randolph (Dear Octopus), Haymarket 1967; formed Triumph Theatre Production 1970, appeared in numerous productions in Britain, as the Comte (The Marquise), U.S.A. 1972, ■ Andrew Wyke (Sleuth), Australia and New Zealand 1972-73, English tour 1976, R.S.C. productions of The Hollow Crown and Pleasure and Repentance, Canada and U.S.A. 1974, ■■ Martin Dysart (Equus) for Australian Nat. Theatre Co., Perth Festival 1975, toured as John (Miss Adams Will Be Waiting) 1975, toured S.A. in On Approval 1976, in Quadrille 1977, The Heat of the Moment 1977, appeared in Double Edge in U.K. and Canada 1978; *TV appearances include:* Wuthering Heights; served in King's Own Yorkshire Light Infantry and Parachute Regt. 1940-46; British Nat. Film Award, Picturegoer Award, Hollywood Golden Globe. *Leisure interests:* shooting, farming. *Address:* Little Ponton House, near Grantham, Lincs.; Chinham Farm, Faringdon, Oxon., England.

TODOROV, Stanko; Bulgarian politician; b. 10 Dec. 1920, Pernik Region; m. Sonya Todorova 1947; two s.; active in Resistance Movement 1941-44; mem. Nat. Assembly; Minister of Agric. 1952-58; Sec. Central Cttee. Bulgarian C.P. 1958-59, 1966-71; Full mem. Politburo 1961-; Deputy Prime Minister 1959-66; Perm. Bulgarian Representative to Council for Mutual Econ. Assistance (COMECON) 1962-66; Chair. Council of Ministers July 1971-. *Address:* Ministerski Suvet, Sofia, Bulgaria.

TODOROVIĆ, Mijalko; Yugoslav politician; b. 25 Sept. 1913, Knić Kragujevac; m. Milica 1940; two s. one d.; ed. Belgrade Univ.; in Nat. Liberation Movement 1941-45; first as Political Commissar

of Brigade, then of Division, and Corps, and finally of First Yugoslav Army; Asst. Minister of Nat. Defence and Head of Provisional Administration for Supplies 1945-48; Minister of Agric. and Forestry 1948-53; Pres. of Econ. Cttee., Fed. Exec. Council 1953-58; Vice-Pres. Fed. Exec. Council 1958-63; Vice-Pres. Fed. Assembly and Pres. of Fed. Chamber 1963-66; mem. Exec. Cttee. Yugoslav League of Communists, Sec. 1966-69; mem. Exec. Bureau of the Presidency 1969-71; Pres. Fed. Assembly 1971-74; Orders of Nat. Hero, Nat. Liberation, Partisan Star, etc. *Publications:* Disalienation of Labour, Socio-Political Foundations of the Equality of the Republics and Peoples of Yugoslavia, Reorganization of the League of Communists—an Objective Need of the Working Class, Some Questions of Our Economic System, Self-government—Historical Struggle of the Working Class. *Leisure interests:* tennis, hunting. *Address:* Užička ul. 23, Belgrade, Yugoslavia.

TOENNIES, Jan Peter, PH.D.; American physicist; b. 3 May 1930, Philadelphia, Pa.; s. of Dr. Gerrit Toennies and Dita Jebens; m. Monika Zelesnick 1966; two d.; ed. Amherst Coll., Brown Univ.; Asst., Bonn Univ., Fed. Repub. of Germany 1962-65, Privat Dozent 1965-67, Dozent 1967-69; Scientific mem. and Dir. Max-Planck-Inst. für Strömungsforschung (Fluid Dynamics) 1969-; Assoc. Prof. Göttingen Univ. 1971-; Hon. Prof. Bonn Univ. 1971; Physics Prize, Göttingen Acad. of Sciences 1964. *Publications:* Chemical Reactions in Shock Waves (with E.F. Greene) 1964, A Study of Intermolecular Potentials with Molecular Beams at Thermal Energies (with H. Pauly) in Advances in Atomic and Molecular Physics 1965, Molecular Beam Scattering Experiments, contribution in Physical Chemistry, an Advanced Treatise 1974, Rotationally and Vibrationally Inelastic Scattering of Molecules 1974, Scattering Studies of Rotational and Vibrational Excitation of Molecules (with M. Faubel) 1977, Advances in Atomic and Molecular Physics 1977. *Leisure interest:* sailing. *Address:* Max-Planck-Institut für Strömungsforschung, Bottingerstrasse 6-8, 3400 Göttingen (Office); Ewaldstrasse 7, 3400 Göttingen, Federal Republic of Germany (Home). *Telephone:* 0551-7092600 (Office); 0551-57172 (Home).

TOEPFER, Alfred Gustav Carl Kurt; German businessman, philanthropist and conservationist; b. 13 July 1894, Hamburg-Altona; s. of Carl J. and Engel Maria (née Volkmer) Toepfer; m. Emma J. Klima 1922; three s. two d.; ed. Höhere Handelsschule; founded own export-import firm trading in corn, animal foodstuffs and rape-seeds, Hamburg 1919; founder and Chair. Stiftung F.V.S., Hamburg; Chair. Nature Reserve Assen.; hon. mem. Austrian Acad. of Science; Dr. h.c. (Kiel); Hon. Senator, Univs. of Hamburg and Innsbruck; Hon. C.B.E. 1976. *Publications:* numerous publications on agrarian policies, conservation, etc. *Leisure interests:* walking, conservation. *Address:* 2000 Hamburg 1, Ballindamm 2/3, Federal Republic of Germany.

TOEPLITZ, Heinrich, LL.D., DR. IUR.; German judge; b. 5 June 1914, Berlin; s. of the late Georg Toeplitz and Margarete Toeplitz; m. Ruth Toeplitz 1946; one s. two d.; ed. König-Wilhelm Gymnasium, Breslau, Univs. of Breslau and Leipzig. mil. service 1940; enforced labour, France and Netherlands 1944-45; Junior Barrister, Berlin 1945-47; Dept. of Justice, City Council, Berlin 1947-50; Sec. of State in G.D.R. Ministry of Justice 1950-60; Pres. of Supreme Court of G.D.R. 1960-; mem. Volkskammer 1951-; Deputy Chair. Christlich-Demokratische Union Deutschlands (CDU) 1966-; Vaterländischer Verdienstorden in Silver and Gold and other decorations. *Address:* Oberstes Gericht der Deutschen Demokratischen Republik, Littenstrasse 13, 1026 Berlin, German Democratic Republic.

TOEPLITZ, Jerzy, LL.B., PH.D.; Polish film critic and historian; b. 24 Nov. 1909, Kharkov, U.S.S.R.; m. Izabella Stanisława Górnicka 1943; three d.; ed. Warsaw; co-founder "Start" (film assen.) 1929, Sec. and Vice-Pres. 1930-34; film work in England and Italy 1935-37; mem. Cen. Council for Film Industry 1938; Rector and Prof. State Theatrical and Film Higher School, Łódź 1948-68; Pres. Int. Fed. of Film Archives (FIAF) 1948-; Vice-Pres. Int. Film and Television Council; mem. Int. Bureau of Historical Research 1952-; mem. Jury, Int. Film Festival, Karlovy Vary 1951, 1952, and 1956, Venice Documentary Film Festival 1957, 1962, Cannes 1958, 1965, Venice 1960, 1964, Mar del Plata 1961, Moscow 1959, 1961, Bergamo 1963, 1964, Florence 1965, Cracow 1964, 1965, San Sebastian 1966, New Delhi 1969; Dir. Inst. of Art, Polish Academy of Sciences 1961-68; Visiting Prof. Univ. of Calif. 1967; Head of Cinema Dept., Inst. of Art 1968-72, Prof. Emer. 1973-; Vice-Pres. CILECT (Centre Int. de Liaison des Ecoles et de Télévision) 1976; Dir. Australian Film and Television School, Sydney. *Publications:* Historia Sztuki Filmowej (History of Cinematographic Art) Vol. I 1955, Vol. II 1956, Vol. III 1959, Vol. IV 1969, Vol. V 1971, Film i telewizja w U.S.A. (Film and T.V. in U.S.A.) 1964, Hollywood and After 1974. *Address:* Australian Film and Television School, 13-15 Lyonpark Road, North Ryde, N.S.W. 2113; 19/30 Archer Street, Chatswood, N.S.W. 2067, Australia (Home); Al. Armii Ludowej 6m. 165, 00-571 Warsaw, Poland (Home). *Telephone:* 887-1666 (Office); 419-4825 (Australian Home).

TOGBE, Jacques Dabra; Togolese diplomatist; b. 3 May 1930, Akloa; m.; three c.; ed. primary and secondary schools in Togo and Dahomey, Univs. of Montpellier and Paris and Inst. des Hautes Etudes d'Outre-Mer, Paris; Inspector of Labour and Head of the Labour Inspection Service 1965-68; Dir.-Gen. of Labour and Social Security 1968-72; Deputy Sec.-Gen. Rassemblement du Peuple Togolaise, also mem. Political Bureau 1969-71; Prof. of Labour Law and Social Security, Ecole Nat. d'Admin. Togolaise 1965-72; Amb. and Perm. Rep. to UN 1972-77; mem. Social Security Comm., ILO 1969-; Officer, Order of the Leopard (Zaire). *Address:* International Labour Organization, 1211 Geneva 22, Switzerland.

TOGNI, Giuseppe; Italian politician; b. 5 Dec. 1903; m. Bianca Corbin 1930; four c.; ed. Spoleto Technical Inst., Univs. of Pisa and Rome. Dir. of "Gruppo Marmi" of Soc. Montecatini; mem. Consultative Council 1945; Deputy to Constituent Ass. 1946-48; mem. Chamber of Deputies 1948-68; Under-Sec. of State, Ministry of Labour and Social Security 1947, Minister of Industry and Commerce 1947, for Economic Co-ordination 1948, of Industry and Commerce 1950-51, of Transport 1953, of State Participation 1957, of Public Works 1957-60, of Industry and Commerce 1963, of Posts and Telecommunications 1973-74; mem. Senate 1968-; Prof. Univ. of Rome; Pres. Italian Confed. of Management, Higher Inst. of Management, Italian Assen. of Public Relations; Pres. Nat. Inst. of Foreign Trade 1949; Grand Cross of Sovereign Military Order of Malta, Vatican Order of St. Gregory the Great, Order of Merit, Fed. Repub. of Germany, Grand Commdr. Légion d'honneur, and many others; Christian Democrat. *Address:* Via Giovanni Paisiella 53, Rome, Italy.

TOH CHIN CHYE, PH.D.; Singapore physiologist and politician; b. 10 Dec. 1921; ed. Raffles Coll., Singapore, Univ. Coll., London Univ., and National Inst. for Medical Research, London; Founder, People's Action Party, Chair. 1954-; Reader in Physiology, Univ. of Singapore 1958-64; Research Assoc., Univ. of Singapore 1964; Deputy Prime Minister of Singapore 1959-68; Minister for Science and Technology 1968-75; Minister for Health 1975-; mem. Parl. Singapore 1959-; Chair. Board of Govs., Singapore Polytechnic 1959-75; Vice-Chancellor, Univ. of Singapore 1968-75; Chair. of Board of Govs. Regional Inst. for Higher Educ. and Devt. 1970-75; Chair. Applied Research Corpn. 1973-75; Hon. D.Litt. (Univ. of Singapore) 1976. *Address:* Ministry of Health, Hyderabad Road, Singapore 5; and 23 Greenview Crescent, Singapore 11, Singapore.

TOKARYEV, Aleksandr Maksimovich; Soviet politician; b. 27 Nov. 1921; ed. Kuibyshev Inst. of Construction Engineers; mem. CPSU 1942-; Soviet Army service 1940-45; Komsomol Leader 1949-51; Sec. Stavropol, later First Sec. Novo Kuibyshev City Cttees. of CPSU 1951-55; Sec. Kuibyshev Regional Cttee. of CPSU 1958-59; Chair. Exec. Cttee. Kuibyshev Regional Soviet of Working People's Deputies 1959-63; First Sec. Kuibyshev Regional Cttee. of CPSU 1963-67; Minister of Industrial Construction, U.S.S.R. 1967-; mem. Cen. Cttee. CPSU 1966-; Deputy to U.S.S.R. Supreme Soviet 1962-; Order of Lenin (three times), Order of Red Banner and other decorations. *Address:* U.S.S.R. Ministry of Industrial Construction, Moscow, U.S.S.R.

TOKUNAGA, Masatoshi; Japanese politician; b. 25 Aug. 1913; Dir. Japan Bereaved Assen.; mem. House of Councillors 1959-; Deputy Minister of Health and Welfare; Standing Chair., Ministry of Finance; Minister of Transport 1973-74. *Address:* 12-17, Sasuke, 2-chome, Kamakura City, Kanagawa Prefecture 248, Japan.

TOL SAUT (see Pol Pot).

TOLBERT, William Richard, Jr., B.A.; Liberian politician; b. 13 May 1913, Bensonville; s. of William and Charlott Tolbert; m. Victoria David 1936; two s. six d. (one deceased); ed. Liberia Coll. (now Univ.); Liberian Treasury 1935, Disbursing Officer 1936-53; mem. House of Reps. 1943-51; Vice-Pres. of Liberia 1951-71, Pres. of Liberia July 1971-; Pres. of OAU 1979-80; Vice-Pres. of Senate 1951-55, Pres. 1955; Vice-Pres. for Africa of the Baptist World Alliance 1960-65, Pres. Baptist World Alliance 1965-70; fmr. Chair. Board Dirs. Bank of Liberia; Chair. Board Dirs. Mesurado Corpn., Univ. of Liberia; Hon. mem. American Int. Acad.; Hon. D.C.L., Hon. D.D. (Liberia Univ.); numerous Liberian and foreign decorations. *Address:* The Executive Mansion, Monrovia, Liberia. *Telephone:* 22678.

TOLEDO PIZA, Arthur Luiz de; Brazilian painter and printmaker; b. 1928; Painter and exhibitor 1943-; moved to Paris 1952; regular exhibitor at Bienal of São Paulo and of Ljubljana since

1951, at Triennali of Grenchen since 1958; One-man exhibitions in Brazil, Germany, Yugoslavia, U.S.A., France, Switzerland, Sweden, Spain, Belgium and Italy; works in many important museums and private collections; Purchase Prize 1953, and Nat. Prize for Prints São Paulo Biennale 1959, Prizes at biennales at Ljubljana 1961, Santiago 1966, Venice 1966, and Grenchen Triennale 1961. *Address:* 16 rue Dauphine, 75006 Paris, France.

TOLKUNOV, Lev Nikolayevich; Soviet journalist; b. 22 Jan. 1919, Bukreyevka, Kursk Region; ed. Gorky Inst. of Literature, Moscow and Higher Party School of CPSU; Sub-Editor and Military Correspondent Pravda 1938-44; Deputy Exec. Sec. and Head of Dept. For ■ Lasting Peace, For a People's Democracy 1947-51; Deputy Editor, later Editor, People's Democracies Dept. Pravda 1951-57; Employee of apparatus of Cen. Cttee. CPSU 1957-65, Deputy Chief of Central Cttee. of CPSU Dept for Liaison with Communist and Workers' Parties in other Communist Countries 1961-65; Editor-in-Chief Izvestia 1965-75; Chair. of Board of Novosti Press Agency 1976-; mem. CPSU 1943-, Cand. mem. CPSU Cen. Cttee. 1966-76, mem. 1976-; Deputy to U.S.S.R. Supreme Soviet 1966-; mem. Foreign Affairs Comm., Soviet of Nationalities; Vice-Chair. U.S.S.R. Parl. Group; Order of Lenin (twice), Red Banner of Labour, Red Star, and medals. *Address:* Novosti, Pushkinskaya pl. 2, Moscow, U.S.S.R.

TOLLOY, Giusto; Italian politician; b. 3 Nov. 1907; ed. Accad. Militare, Modena and Scuola di Guerra; Major in Second World War, then founded anti-fascist Partito Italiano del Lavoro, later merged with Partito Socialistà Italiano (PSI); mem. Cttee. PSI 1947-, Organizing Chief 1950-54; mem. Chamber of Deputies 1948-58; Senator 1958-; Pres. of PSI Group in the Senate; Vice-Pres. Foreign Comm. and Italian section Inter-Parliamentary Union; Minister of Foreign Trade 1966-68. *Address:* The Senate, Rome, Italy.

TOLSTIKOV, Vasiliy Sergeyevich; Soviet politician and diplomatist; b. 6 Nov. 1917; ed. Leningrad Inst. of Railway Engineering; Soviet Army 1941-46; construction orgs., Leningrad 1946-52; mem. C.P.S.U. 1948-; party and Soviet work 1952-57; First Deputy Chair. Exec. Cttee. Leningrad Soviet of Workers' Deputies 1957-60; Sec., later Second Sec. Leningrad Regional Cttee., C.P.S.U. 1960-62, First Sec. 1962-70; mem. Cen. Cttee. C.P.S.U. 1961-; mem. Bureau of Cen. Cttee. C.P.S.U. for R.S.F.S.R. 1962-66; Deputy to U.S.S.R. Supreme Soviet 1962-, mem. Presidium of U.S.S.R. Supreme Soviet 1962-71; Amb. to People's Repub. of China 1970-78; Order of Lenin (four times), and other decorations. *Address:* c/o Ministry of Foreign Affairs, The Kremlin, Moscow, U.S.S.R.

TOLSTIKOV, Yevgeniy Ivanovich, D.SC.; Soviet polar explorer; b. 9 Feb. 1913, Tula; m. Nina Nikolayevna 1937; one s. one d.; ed. Moscow Hydrometeorological Inst.; Head of the Soviet drifting station SP-4 in the Arctic 1954-55; head of the Soviet Int. Geophysical Year Aroarctic Expedition to Mirny 1958-59; Deputy Chief, Main Dept. of Northern Sea Route of Ministry of Merchant Marine 1955-63; Deputy Head Main Board for Hydrometeorological Services for U.S.S.R. Council of Ministers 1963-; mem. CPSU; Hero of U.S.S.R.; State Prize Laureate. *Leisure interests:* literature, sport. *Address:* Main Board for Hydrometeorological Services for U.S.S.R. Council of Ministers, Pereulok Pavlika Morzova 12, Moscow, U.S.S.R.

TOLUBKO, Gen. Vladimir Fedorovich; Soviet army officer; b. 25 Nov. 1914, Krasnograd, Khakov Region; ed. Military Acad. of Tank and Mechanized Forces and Acad. of Gen. Staff; Teacher in secondary school 1931; Soviet Army 1932-; soldier, officer cadet, tank, platoon, company Commdr. 1932-38; at Military Acad. of Tank and Mechanized Forces 1938-41; Squadron Commdr., Chief of Staff of Tank Div., Commdr. of Tank Brigade, Chief Staff Officer of Tank Corps 1941-46; on staff of U.S.S.R. Ministry of Defence, then First Deputy Commdr. Rocket Forces, later Commdr. Siberian Mil. District 1946-69; Commdr. Far Eastern Mil. District 1969-72; Gen. of Army 1970-; C.-in-C. Strategic Missile Troops 1972-; Deputy U.S.S.R. Minister of Defence 1972-; mem. CPSU 1939-, mem. Cen. Cttee. CPSU 1976-; Deputy to U.S.S.R. Supreme Soviet 1970-; Order of Lenin (twice), Order of Red Banner (four times), and other decorations. *Address:* Ministry of Defence, 34 Naberezhnaya M. Thoreza, Moscow, U.S.S.R.

TOMAL, Zdzisław; Polish politician; b. 19 March 1921, Rogów, Kazimierza Wielka; s. of Andrzej and Maria Tomal; m. Maria Tomal 1943; two d.; ed. Higher School of Agriculture, Wrocław; active in ZMW (Rural Youth Union—"Wici") 1938; during Second World War, fought with Peasant Battns. in Pińczów; after war worked for Wici and Peasant Movement; worked in Presidium of Voivodship Nat. Council, Wrocław 1947-56; Vice-Pres. Voivodship Cttee. of ZSL (United Peasant Party), Wrocław 1957; Chair. Presidium of Voivodship People's Council, Koszalin 1957-66; mem. ZSL Cen. Cttee. 1959-, mem. Presidium of ZSL Cen. Cttee. 1964-, Vice-Pres. Cen. Cttee. 1973-; Deputy to Seym 1961-; Deputy Chair. Council of Ministers 1969-76; Deputy Chair. Council of State 1976-; Chair. Polish Cttee. for Preservation of the Environment Oct. 1970-; decorations include Order of Banner of Labour 1st and 2nd Class, Commdr's and Officer's Cross of Order of Polonia Restituta, Partisan Cross. *Address:* Naczelny Komitet ZSL, ul Grzybowska 4, 00-131 Warsaw, Poland. *Telephone:* 200251.

TOMÁŠEK, H. E. Cardinal František, D.D.; Czechoslovak ecclesiastic; b. 30 June 1899, Studénka; ed. Seminary in Olomouc; Asst. lecturer in Educ. and Catechetics, Theol. Faculty of Olomouc Univ. 1934, Lecturer in Educ. 1945, Ordinary Prof. 1947; Auxiliary Bishop in Olomouc 1949; Apostolic Admin. in Prague 1965; Created Cardinal June 1977; Archbishop of Prague, Metropolitan and Primate of Bohemia Dec. 1977-. *Publications:* (Editor) Letters on Education, (author) 25 monographs on theol., educ. and catechism of the Catholic religion. *Leisure interests:* education, catechism. *Address:* Hradčanské námesti 16, 119 02 Prague 1, Czechoslovakia.

TOMASINI, René François; French civil servant and politician; b. 14 April 1919; ed. Univ. of Strasbourg; early service in Provincial Prefectures; Technical Counsellor to French Resident-Gen. Morocco 1954; Sec. Gen. Ministry of Labour, Morocco 1955-57; Deputy for Eure region 1958-; Chair. Union pour la Nouvelle République (UNR) 1961-67, of UDR 1968, Sec. Gen. 1971-72; Chair. RPR, mem. Cen. Cttee.; Vice Pres. Parl. Group in Nat. Assembly 1962-72; Mayor of Les Andelys 1965-; Conseiller Gén. of Eure region 1968-; Conseiller Régional de Haute-Normandie 1975-; Sec. of State attached to Prime Minister responsible for Relations with Parl. 1974-76; Chevalier Légion d'honneur, Croix de guerre, Médaille de la Résistance. *Address:* Assemblée nationale, 75007 Paris; and 21 avenue du Général Leclerc, 27700 Les Andelys, France.

TÓMASSON, Tómas Ármann, M.A.; Icelandic diplomatist; b. 1 Jan. 1929, Reykjavík; s. of Tómas Tómasson and Gudrun Thorgrimsdottir; m. Heba Jónsdóttir 1957 (divorced); two s. one d.; ed. Reykjavík Grammar School, Univ. of Illinois, Fletcher School of Law and Diplomacy and Columbia Univ.; entered Icelandic foreign service 1954; Sec. Moscow 1954-58; Ministry for Foreign Affairs 1958-60; Deputy Perm. Rep. to NATO and OECD 1960-66; Chief of Div., Ministry for Foreign Affairs 1966-69, Deputy Sec.-Gen. of Ministry 1970-71; Amb. to Belgium and EEC and Perm. Rep. on North Atlantic Council 1971-77; Perm. Rep. to UN 1977-; Order of the Falcon (Iceland), and decorations from France and Sweden. *Address:* c/o Permanent Mission of Iceland to the UN, 5th Floor, 370 Lexington Avenue, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 6864100 and 9352573 (U.S.A.); 25000 (Iceland).

TOMASZEWSKI, Henryk; Polish graphic artist and designer; b. 10 June 1914, Warsaw; s. of Marian and Stanislawa Tomaszewski; m. Teresa Pagowska 1964; one s.; ed. Warsaw Acad. of Fine Arts; worked with Film Polski 1947-52; Scenographer, Syrena Theatre 1950-52; Prof. Warsaw Acad. of Fine Arts 1952-, Chief Dept. of Graphic Designs; mem. Asscn. of Polish Plastic Artists, Alliance Graphique Internationale; Hon. Fellow, Royal Soc. of Arts (U.K.) 1976; one-man exhbns.; Bienne, Switzerland 1969, Museum of Posters, Warsaw 1972; works exhibited; Nat. Gallery, Warsaw, Museum of Modern Art, New York, Museum of Modern Art, São Paulo, Fagersta Library, Stockholm, Kunstgewerbe Museum, Zurich, Museum Villa Hugel, Essen; five 1st Prizes, Int. Exhbn. of Posters, Vienna 1948, State Prize, 2nd Class 1953, Premier's Prize for Illustrations in Children's Books 1958, 1st Prize, VII Biennale of Arts, São Paulo 1963, Silver Medal, Int. Biennale of Posters, Warsaw 1966, Gold Medal 1970, Knight's Cross, Order of Polonia Restituta 1954, Commdr.'s Cross 1959. *Publication:* Książka zażaleń (Book of Complaints). *Address:* Ul. Jazgarzewska 13, 00-730 Warsaw, Poland. *Telephone:* 40-11-51.

TOMASZEWSKI, Henryk; Polish choreographer, ballet master and mime; b. 11 Nov. 1919, Poznań; ed. Ballet School, Ivo Gall's Studio; mem. F. Parnell Ballet Ensemble, then of Wrocław Opera Ballet 1949-56; organized Mime Studio 1956 (name changed to Mime Theatre 1959); now Artistic Man. Wrocław Mime Theatre; won 1st Prize, World Festival of Youth, Moscow with his first programme 1957; Medal of French Critics, Festival of Nations 1962, Gold Medal, Swedish Soc. of Dance 1963, Gold Star, VIII Int. Festival of Dance 1971, Venezuelan Theatre Critics' Prize (for Przyjeżdżam jutro) 1978), Officer's Cross, Order of Polonia Restituta 1976, Press Prize, Wrocław, Minister of Culture and Arts Prize, 2nd Class 1962; performances in Europe, America and Africa; *ballets:* Process (from Kafka) 1966, Gilgamesh 1968, Klątwa (by Wyspiański) 1969, Odejście Fausta 1970, Menażeria Cesarzowej Filissy (with F. Wedekinda), Peer Gynt 1974, Księżniczka Turandot

(by C. Gozzi) 1974, Przyjeżdżam jùtro 1974, Gra w zabijanego (by Ionesco) 1975, Nieboska komedia (by Z. Krasinski) 1975, Sceny fantastyczne z legendy o Panu Twardowskim 1976, Spór (by Pierre de Marivaux) 1978, dir. Hammerman and Baker (film for Norwegian TV) 1978. *Address:* Al. Dębowa 16, 53-121 Wrocław, Poland.

TOMBAUGH, Clyde William, M.A.; American astronomer; b. 4 Feb. 1906, Streator, Ill.; s. of Muron and Adella Tombaugh (née Chritton); m. Patricia Edson 1934; one s. one d.; ed. Univ. of Kansas; Asst. Astronomer, Lowell Observatory, Flagstaff, Arizona 1929-43; Science Instructor, Arizona State Coll. 1943-45; Optical Physicist and Astronomer, White Sands Missile Range 1946-55; Astronomer, New Mexico State Univ. 1955-61; Assoc. Prof. Dept. of Earth Sciences and Astronomy, New Mexico State Univ. 1961-65, Prof. 1965-; Emer. 1973-; planetary searches and observations, including the Moon, Mars, Venus, Jupiter and Saturn; discovered ninth planet, Pluto 1930, and five new galactic star clusters and one globular star cluster; mem. Amer. Astronomical Soc. 1931-; Meteoritical Soc. 1932-; mem. Int. Astronomical Union Comm. on Planets and Satellites; Fellow, American Int. of Aeronautics and Astronautics; Hon. D.Sc. (Univ. of Arizona); numerous awards. *Publications:* The Search for Small Natural Earth Satellites 1959 (co-author), Lectures in Aerospace Medicine 1960, 1961, The Trans-Neptunian Planet Search 1961, Geology of Mars, and over 30 other papers. *Leisure interest:* grinding, polishing and figuring telescope mirrors. *Address:* Dept. of Astronomy, Box 4500, New Mexico State University, University Park, New Mexico, U.S.A; and P.O. Box 306, Mesilla Park, New Mexico 88047. *Telephone:* 646-2107 (Office); 505-526-9274 (Home).

TOMBAZOS, George; Cypriot politician; b. 2 Feb. 1919, Morphou; s. of Christos and Maria Tombazos; m. Diana Tombazos 1960; two s.; ed. Pancyprian Gymnasium, Cyprus College, Dentists' School of Athens; worked as dentist at Morphou 1950-66; M.P. for Nicosia 1960-66; Minister of Agricultural and Natural Resources 1966-70; Head Central Information Service 1970-75; Minister of Communications and Works 1975-77, of Agric. and Nat. Resources 1978-. *Address:* Ministry of Agriculture and Natural Resources, Nicosia, Cyprus.

TOMEH, Georges J., PH.D.; Syrian university professor and diplomatist; b. 1 March 1921; ed. American Univ. of Beirut and Georgetown Univ.; Attaché, London, and Alt. Del. to UNESCO 1945-46; Syrian Embassy, Washington 1947-52; Alt. Gov. Int. Monetary Fund 1950; Dir. UN and Treaties Dept., Ministry of Foreign Affairs, Damascus 1953-54; Asst. Prof. of Philosophy and Asst. to Dean of Arts and Sciences, American Univ. of Beirut 1954-56; Dir. Research Dept., Ministry of Foreign Affairs, Damascus 1956-57; Consul-Gen., New York 1957-58, Consul-Gen. of United Arab Republic in New York 1958, Minister, New York 1961; Consul-Gen. and Deputy Perm. Rep. of Syria to UN 1961-63; Minister of Economy, Syrian Arab Republic 1963; Prof. of Philosophy, Syrian Univ. 1964-65; Perm. Rep. to UN 1965-72; Commdr. Order of St. Paul and St. Peter. *Publications:* The Idea of Nationalism 1954, Philosophy of Leibniz 1954, 1965, Making of the Modern Mind (2 vols.) (trans. from English) 1955-57, 1965, Arab Emigrant to the United States 1965; Islam: Year Book of Education and Philosophy 1957, The Constitution and Electoral Laws of Syria, Where Islam and Christianity Meet 1960, The Dynamics of Neutralism in the Arab World 1964, Challenge and Response: A Judgement of History 1969. *Address:* c/o Ministry of Foreign Affairs, Damascus, Syria.

TOMIC, Romero Radomiro; Chilean lawyer, politician and diplomatist; b. 7 May 1914; ed. Universidad Católica de Chile; Newspaper Editor 1937-41; mem. Chamber of Deputies 1941-45, 1945-49, Senate 1950-53, 1961-65; founded Partido Democráta Cristiano (PDC) 1935, Chair. of Youth Movement 1935-37, Nat. Chair. of PDC 1946-47, 1952-53; Ambassador to U.S.A. 1965-68; Leader of PDC (now suspended by junta) 1969; Presidential candidate 1970. *Publications:* numerous political essays and The Inter-American System and the Regional Market 1958.

TOMKINS, Sir Edward Emile, G.C.M.G., C.V.O.; British retd. diplomatist; b. 16 Nov. 1915, Jubbulpore, India; s. of late Lt. Col. E. L. Tomkins and Marie Louise de Marigny; m. Gillian Benson 1955; one s. two d.; ed. Ampleforth Coll., and Trinity Coll., Cambridge; entered diplomatic service 1939; mil. service 1940-44; has served at British Embassies in Moscow, Paris, Bonn and Washington; Amb. to the Netherlands 1970-72, to France 1972-75. *Leisure interests:* travel, music, gardening, skiing, golf. *Address:* Winslow Hall, Winslow, Bucks. MK18 3HL; and 17 Thurloe Place Mews, London, S.W.7, England. *Telephone:* Winslow 2323; 01-589 9623.

TOMKINS, Rt. Rev. Oliver Stratford, M.A., D.D.; British theologian; b. 9 June 1908, Hankow, China; s. of Rev. Leopold Charles Fellows Tomkins and Mary Katie Stratford; m. Ursula Mary Dunn 1939; one s. three d.; ed. Trent Coll., Christ's Coll., and Westcott House, Cambridge; Asst. Gen. Sec. Student Christian Movement 1933-36; editor Student Movement Magazine 1936-40; Vicar Holy Trinity Church, Millhouses, Sheffield 1940-45; Assoc. Gen. Sec. World Council of Churches and Sec. of its Comm. on Faith and Order 1945-52; Warden of Theological Coll., Lincoln 1953-59; Bishop of Bristol 1959-75; mem. World Council of Churches Cen. Cttee. 1968-74; Hon. LL.D. (Bristol Univ.) 1975. *Publications:* The Wholeness of the Church 1949, The Church in the Purpose of God 1950, Lund 1952: The Report of the Third World Conference on Faith and Order (ed.), The Life of Edward Woods 1957, A Time for Unity 1964, Guarded by Faith 1971. *Leisure interests:* gardening and grandchildren. *Address:* 14 St. George's Square, Worcester, WR1 1HX, England. *Telephone:* Worcester 25330.

TOMLINSON, Sir Frank Stanley, K.C.M.G.; British retd. diplomatist; b. 21 March 1912, Batley, Yorkshire; s. of late John Derrick Tomlinson and Mary (née Laycock) Tomlinson; m. Nancy Gleeson-White 1959; ed. High Pavement School, Nottingham and Univ. College, Nottingham; Consular Service in Japan 1935-41, Saigon 1941-42; served in U.S.A. 1943-45, Consul, Washington 1945; Acting Consul-Gen., Manila 1945-46, Chargé d'affaires 1946-47; First Sec., Foreign Office 1947-51; Counsellor, Washington 1951-54; Head of S.E. Asia Dept., Foreign Office 1954-59; served Berlin 1959-61; Deputy Perm. U.K. Rep. to North Atlantic Treaty Org. (NATO) 1961-64; Consul-Gen., New York 1964-66; High Commr. in Ceylon 1966-69; Deputy Under-Sec. of State, Foreign Office 1969-72; mem. Gov. Body School of Oriental and African Studies 1972-; Chair. Council of Int. Social Service 1973-, Royal Soc. for Asian Affairs 1974-; mem. Panel of Chairmen, Civil Service Selection Board 1973-; Hon. LL.D. (Nottingham Univ.) 1970. *Leisure interests:* reading, trout fishing, wine. *Address:* 6/24 Buckland Crescent, London, N.W.3, England. *Telephone:* 01-722 6445.

TÖMPE, István; Hungarian politician; b. 2 Jan. 1909, Budapest; s. of Benö Tömpe and Jolán Sugár; m. Jolán Kovács 1948; one s. one d.; Upholsterer by original trade; joined workers' movement 1928, CP 1929; lived in France 1929-34; fought in Spain during Civil War; returned to Hungary 1941, arrested 1942; held different party functions after 1945; held leading posts in Ministries for Home Affairs, and Agric. 1946-48; Deputy Minister of Armed Forces 1956, of Home Affairs and of Agric. 1958-62; Chair. Hungarian Radio and Television 1962-74; Chair. State Cttee. for Radio and TV 1974-; Sec. of State 1974-; Vice-Pres. Int. Radio and TV Org. 1973-75; mem. Hungarian Socialist Workers' Party Cen. Cttee., mem. Agitation and Propaganda Board attached to HSWP Cen. Cttee. 1975-. *Leisure interest:* wild-game shooting. *Address:* Office: Magyar Rádió és Televizió Bisottság, H-1800 Budapest VIII, Bródy Sándor-utca 5/7, Hungary. *Telephone:* 338-330.

TOMSKY, Nikolay Vasiliyevich; Soviet sculptor; b. 12 Dec. 1900, Ramushevo, Novgorod Region; ed., Leningrad Technical School of Fine Arts; Lecturer, Surikov Inst. of Art, Moscow 1948-49, Prof. 1949-, Rector 1964-70; represented at exhbns. in the U.S.S.R. India, China, Indonesia, Finland, G.D.R., Bulgaria, Hungary, Egypt, Paris Universal Exhbn. 1937, New York World's Fair 1939, 28th and 29th Venice Biennale 1956, 1958, Czechoslovakia; mem. of U.S.S.R. Acad of Arts 1949-, Pres. 1968-; Chair. Moscow Branch, Union of Soviet Artists 1951-56; mem. Lenin Peace Prize Cttee. 1973; mem. CPSU 1950; Deputy to Supreme Soviet R.S.F.S.R.; State Prizewinner 1972; Order of Lenin (twice), Order of Red Banner, People's Artist of U.S.S.R. 1960, Hero of Socialist Labour 1970, and other decorations. *Works include:* Monuments to Kirov (Leningrad) 1938, Lenin (Voronezh, Orel, Murmansk, Kuibyshev, Saransk, Tashkent, Berlin) 1940, 1949, 1957, 1963, 1970, 1971, Apanasenko (Belgorod) 1949, Chernyakovsky (Vilnius) 1950, Gogol (Moscow) 1952, Nakhimov (Sebastopol) 1959, Lomonosov (Moscow) 1953, Kutuzov (Moscow) 1973, and many sculptural portraits; Monument to Hero of the Soviet Union, Young Partisan, Lenya Golikov (Novgorod) 1964. *Address:* c/o U.S.S.R. Academy of Arts, 21 Kropotkinskaya ulitsa, Moscow, U.S.S.R.

TON DUC THANG; Vietnamese politician; b. 20 Aug. 1888, Long Xuyen Province, South Viet-Nam; went to France and joined French Navy 1912; returned to Saigon 1920; joined Viet-Nam Revolutionary Youth Soc. 1925; imprisoned by French on Pulo Condore Island 1929-45; mem. Communist Party of Indo-China 1930; held exec. Party and Govt. posts 1945-, including Deputy Chair., then Chair. of Standing Cttee. of Democratic Republic of Viet-Nam (D.R.V.) Nat. Assembly; Chair. of Central Cttee. Presidium of Viet-Nam Fatherland Front; mem. Central Cttee. of Working People's Party of Viet-Nam; Vice-Pres. D.R.V. 1960-69, Pres. 1969-76, Pres. Socialist Repub. of Viet-Nam July 1976-; Chair. Nat. Defence Council July 1976-, Central Board of Vietnamese-Soviet Friendship Soc.; at Congress of Working People's Party of Viet-

Nam 1951, 1960; Leader Nat. Assembly Del. to U.S.S.R. 1956; Lenin Int. Prize for Promotion of Peace Among Nations, Order of Lenin of U.S.S.R. 1967, Order of Suhbaatar (Mongolia) 1978, Order of October Revolution (U.S.S.R.) 1978. *Address:* Office of the President, Hanoi, Viet-Nam.

TONČIĆ-SORINJ, Lujo, LL.D.; Austrian landowner and politician; b. 12 April 1915, Vienna; s. of Dušan and Mabel von Tončić-Sorinj; m. Renate Trenker 1956; one s. four d.; ed. Grammar School, Salzburg, and Univs. of Vienna and Zagreb; Asst. to Chair. S.E. Europe Dept., Berlin Univ. 1940-44; Military Service 1941-44; Head of Political Dept., Austrian Research Inst. for Econs. and Politics 1946-49, Editor Berichte und Informationen 1946-49; mem. Parl. for Land Salzburg 1949-66; Chair. Legal Cttee. of Austrian Parl. 1953-56, Foreign Affairs Cttee. 1956-59; in charge of Foreign Affairs questions, Austrian People's Party 1959-; Austrian mem. Consultative Assembly of Council of Europe 1953-66, Vice-Chair. Political Cttee.; Vice-Pres. Council of Europe 1961-62; Minister of Foreign Affairs 1966-68; Sec.-Gen. Council of Europe 1969-74; Pres. Austrian Assen. of UN 1977-; Grosses Goldenes Ehrenzeichen am Bande (Austria) and other decorations. *Leisure interests:* history, geography, swimming, diving. *Address:* 5020 Salzburg, Schloss Fürberg, Pausingerstrasse 11, Austria. *Telephone:* 06222-73437.

TONGA, King of (*see* Taufa'ahau Tupou IV).

TONKIN, Hon. John Trezise, A.C.; Australian politician (retd.); b. 2 Feb. 1902, Boulder; s. of John Trezise Tonkin and Julia Carrigan; m. 1st Rosalie Cleghorn 1929 (died 1969), one s. two d.; m. 2nd Joan West 1971; mem. W. Australia Legislative Assembly 1933-77; State Minister of Educ. and Social Services 1943, Deputy Leader of Opposition 1947, Minister for Educ., Works and Water Supplies 1953, Deputy Premier 1955-59, Deputy Leader of Opposition 1959-67, Leader 1967-71; Premier of W. Australia, Treas. and Minister of Cultural Affairs 1971-74; Leader of Opposition (W. Australia) 1974-76; Fellow, Australian Soc. of Accountants; Hon. Freeman, Town of East Freemantle 1977; Labor Party. *Leisure interest:* gardening. *Address:* 174 Preston Point Road, East Freemantle, W.A., Australia. *Telephone:* 339-1839.

TOOLEY, Sir John, Kt., M.A.; British administrator; b. 1 June 1924, Rochester, Kent; s. of late H. R. Tooley; m. 1st Judith Craig Morris (dissolved 1965), three d.; m. 2nd Patricia J. N. Bagshawe 1968, one s.; ed. Repton School and Magdalene Coll., Cambridge; Sec. Guildhall School of Music and Drama 1952-55; Asst. to Gen. Admin., Royal Opera House, Covent Garden 1955-60, Asst. Gen. Admin. 1960-70, Gen. Admin. 1970-. *Leisure interests:* sailing, theatre. *Address:* Laughton Cottage, Laughton, nr. Lewes, Sussex; and 2 Mart Street, London, W.C.2, England. *Telephone:* 01-836 1404.

TOON, Malcolm, M.A.; American diplomatist; b. 4 July 1916, Troy, N.Y.; s. of George Toon and Margaret Broadfoot; m. Elizabeth J. Taylor 1943; one s. two d.; ed. Tufts Univ., Fletcher School of Law and Diplomacy, and Harvard Univ.; Research Technician, Nat. Resources Planning Board 1939-41; Ensign, Lt.-Commdr., U.S. Naval Reserve 1942-46; in U.S. Foreign Service 1946-; Amb. to Czechoslovakia 1969-71, to Yugoslavia 1971-75, to Israel 1975-76, to U.S.S.R. 1976-79; Hon. LL.D. (Tufts Univ.) 1977, (Middlebury Coll.) 1978; Superior Honor Award, Dept. of State 1965. *Leisure interests:* golf, tennis, hunting, fishing. *Address:* c/o Department of State, 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

TOPE, Trimbak Krishna, M.A., LL.B.; Indian lawyer and teacher; b. 28 Feb. 1914, Yeola, Nasik District; one s. three d.; ed. Bombay Univ.; Prof. of Sanskrit, Ramnarain Ruia Coll. 1939-47; Advocate, Bombay High Court 1946; Prof. of Law, Govt. Law Coll. 1947, Principal and Perry Prof. of Jurisprudence 1958-; Vice-Chancellor, Univ. of Bombay 1971-; Pres. Maharashtra Samajik Parishad. *Publications:* Why Hindu Code?, Indian Constitution, A Modern Sage. *Leisure interest:* gardening. *Address:* University of Bombay, University Road, Fort, Bombay 400032, India. *Telephone:* 255726 (Office); 259887 (Office-Personal); 291750 (Home).

TÖPLITZ, Heinrich (*see* Toeplitz, Heinrich).

TOPOL, Chaim; Israeli actor, producer and director; b. 9 Sept. 1935, Tel Aviv; s. of Jacob Topol and Rela Goldman; m. Galia Finkelstein 1956; one s. two d.; joined entertainment unit during army service 1953; founded The Green Onion satirical theatre 1956, Municipal Theatre of Haifa 1959; starred in London stage production of Fiddler on the Roof; currently Actor, Producer, Director for the Genesis Project, filming the Bible, New York, N.Y.; Golden Globe Award, San Francisco Film Festival Winner. *Films include:* Cast A Giant Shadow 1965, Sallah 1966, Before Winter Comes 1969, A Time for Loving, Fiddler on the Roof 1971, The Public Eye. *Address:* 3 Dov Hoz Street, Tel Aviv, Israel.

TOPOLSKI, Feliks; British painter; b. 14 Aug. 1907, Warsaw, Poland; s. of Edward Topolski and Stanisława Drutowska; m. 1st Marion Everall 1944 (divorced 1975), one s. one d.; m. 2nd Caryl Stanley 1975; ed. Acad. of Art, Warsaw, Paris and Italy; came to England 1935; official war artist from 1940 to 1945; works in British Museum, Victoria and Albert Museum, Tate Gallery, Imperial War Museum, South Bank Art Centre (mural-environment Memoir of the Century) 1975, Glasgow, Nottingham, Edinburgh, Toronto, Brooklyn, Texas Univ., Melbourne, Tel-Aviv, Delhi, Warsaw, Singapore and in Buckingham Palace, London; exhbns. in Europe, Canada, U.S., India and Australia; Dr. h.c. (Jagiellonian Univ. of Cracow). *Publications:* The London Spectacle 1935, illustrated Bernard Shaw's Geneva 1939, In Good King Charle's Golden Days 1939, Pygmalion 1941; Penguin Prints 1941, Britain in Peace and War 1941, Russia in War 1942, Three Continents 1944-45, Portrait of G. B. S. 1946, Confessions of a Congress Delegate 1949, 88 Pictures 1951, Topolski's Chronicle 1953-, Sketches of Gandhi 1954, The Blue Conventions 1956, Topolski's Chronicle for Students of World Events 1958, Topolski's Legal London 1961, Face to Face 1964, The United Nations: Sacred Drama (with Conor Cruise O'Brien (*q.v.*)) 1968, Holy China 1968, Shem Ham Japeth Inc. U.S.A. 1969, Paris Lost 1973, Topolski's Buckingham Palace Panoramas 1977, Sia Sanctitas Johannes Paulus Papa II 1978; *film:* Topolski's Moscow (for CBS TV) 1969. *Address:* Bridge Arch 158, opposite Artists' Entrance, Royal Festival Hall, London, S.E.1, England.

TOPOLSKI, Jerzy; Polish historian; b. 20 Sept. 1928, Poznań; s. of Władysław and Halina (née Pietrzyńska) Topolski; m. 1st Zofia Kulejewska 1954; m. 2nd Maria Barbara Antczak 1961; m. 3rd Maria Damuta Łabędzka 1978; no c.; ed. Univ. of Poznań; Doctor 1951-56, Docent 1956-61, Assoc. Prof. 1961-68, Prof. 1968–; with Inst. of Social Sciences of Cen. Cttee., Polish United Workers' Party (PZPR) 1951-54; with Inst. of History, Polish Acad. of Sciences (PAN) 1954, now mem. Cttee. of Historical Sciences, Corresp. mem. PAN 1971-76, mem. 1977-; with Inst. of History, Poznań Univ. 1954-, Deputy Dir. Head of Dept. of Methodology of History 1973-; Chair. Scientific Council, Inst. of History of Material Culture; Deputy Chair. Polish Historical Assen.; mem. Editorial Staff Poznań Studies in the Philosophy of the Sciences and Humanities, Studia Metodologiczne, Studia Historiae Oeconomicae; mem. Cen. Board, Int. Assen. of Econ. History; State Prize, 2nd Class 1970, 1st Class 1978, Commdr.'s Cross, Order of Polonia Restituta, Award of Pomeranian Griffin. *Publications:* Methodology of History 1968, 1973, 1975, 1976, Narodziny kapitalizmu w Europie XIV-XVIII wieku 1965, Swiat bez historii 1972, Wielkopolska poprzez wieki 1973, Zarys dziejów Poznania 1973, co-author Dzieje Wielkopolski 1969, Dzieje Polski 1975, 1976, 1977, Marksizm i Historia (editor and co-author) 1977, Gospodarka Polska a Europejska 1977, Rozumienie Historii 1977. *Leisure interest:* travels. *Address:* ul. Włodkowica 10 m.l, Poznań, Poland. *Telephone:* 333166.

TORALDO DI FRANCIA, Giuliano; Italian physicist; b. 17 Sept. 1916, Florence; Prof. of Physics, Univ. of Florence 1958-; Pres. Int. Comm. of Optics 1966-69, Soc. Italiana di Fisica 1967-73; Thomas Young Medal, Inst. of Physics and Physical Soc.; C. E. K. Mees Medal, Optical Soc. of America. *Publications:* Electromagnetic Waves 1956, La Diffrazione della Luce 1958, L'indagine del mondo Fisico 1976. *Address:* Via Panciatichi 56-27, Florence, Italy.

TORBOV, Zeko Nicolchov, DR.JUR., DR.PHIL.; Bulgarian university professor; b. 15 April 1899, Orechovo; s. of Nicolcho Mihailov Torbov and Raina Ivancheva Popova; m. Valentina Ilieva Topusova 1962; ed. Univs. of Berlin, Göttingen, Paris and Rome. Advocate in Orechovo 1925; Teacher in Philosophy and German, Sofia 1931-42; Priv. Doz. in Philosophy of Law, Sofia State Univ. 1942; Prof. 1945; Assoc. Prof. in German Language and Law, Mil. Acad. Sofia 1939-48; Assoc. Prof. in Law Univ. for Financial and Administrative Sciences, Sofia 1944-46; Dean, Faculty of Law, State Univ. Sofia 1947-48; mem. and Sec. of Bulgarian Philosophical Club Sofia 1935-44, Bulgarian Sociological Soc. 1931-45; mem. Int. Vereinigung für Rechts und Sozialphilosophie, Union of the Scientific Workers in Bulgaria, Union of Translators in Bulgaria; hon. mem. Kant-Gesellschaft, Mainz; Herder-Prize for Science of Univ. of Vienna 1970; Grand Prize of Union of Translators 1974. *Publications:* Die Sozialgesetzgebung in Bulgarien 1923, Über die Friessche Lehre vom Wahrheitsgefühl 1929, Rationalismus und Empirismus in der Rechtswissenschaft 1943, Naturrecht und Rechtsphilosophie 1947, Bulgarian translation of Kant's Kritik der reinen Vernuft 1967, Kritik der praktischen Vernunft 1974, Das Rechtgesetz bei Kant, Fries und Nelson 1974, Der juristische Kritizismus und die Naturrechtslehre bei Leonard Nelson 1975, Zum ewigen Frieden 1976;

and several books in Bulgarian on philosophy and law. *Leisure interest:* gardening. *Address:* Ul. Giovanni Gorini 7, 1505 Sofia, Bulgaria. *Telephone:* 44-29-78.

TÖRNQVIST, Erik Olof; Finnish international finance official and diplomatist; b. 20 July 1915; m.; two s.; ed. Abo Acad.; Registrar, Board of Customs Statistical Bureau 1939-40; Price Control Cttee. 1940-41; Research Fellow, Bank of Finland 1940-42; Sec. Price Council 1942-45, Price and Wage Council 1946; Sec.-Gen. Econ. Council 1946-47; Dir. War Reparation Board 1947-49; Dir.-in-Chief Econ. Dept. Ministry of Finance 1949; Chair. Finance Comm. 1949-61; Sec.-Gen. Econ. Planning Council 1951-53; Principal Sec. to Prime Minister 1953-54; Chair. Finnish Group, Nordic Econ. Co-operation Cttee. 1956-57; Chief of Section, UN Econ. Comm. for Europe (ECE) 1957-59, Econ. Comm. for Latin America (ECLA) 1959-61; Expert, UNTAB 1962-63; Chair. ECE Conf. of Senior Econ. Advisers 1964; Chair. Finnish Delegation to Nordic Council 1968-70; Exec. Dir. IBRD, IFC and IDA Nov. 1970-72; Amb. to Mexico (also accred. to Costa Rica, Cuba, El Salvador and Guatemala) 1972-78; del. to UN Gen. Assembly 1965, 1967 and other int. confs.; Chair. and mem. several govt. cttees.; Commdr. Finnish Lion Order. *Leisure interest:* golf. *Address:* c/o Ministry of Foreign Affairs, Ritaritatu 2B, 00170 Helsinki, Finland.

TORRANCE, Very Rev. Prof. Thomas Forsyth, M.B.E., M.A., DR.THEOL., D.LITT.; British minister of religion and university professor; b. 30 Aug. 1913, Chengtu, China; s. of Rev. Thomas and Annie Elizabeth (Sharpe) Torrance; m. Margaret Edith Spear 1946; two s. one d.; ed. Bellshill Acad., Univs. of Edinburgh, Basle and Oxford; war service with Church of Scotland Huts and Canteens, Middle East and Italy 1943-45; Prof. of Systematic Theol., Auburn Theol. Seminary, U.S.A. 1938-39; Minister, Alyth Barony Parish, Church of Scotland 1940-47, Beechgrove Parish Aberdeen 1947-50; Prof. of Church History, Univ. of Edinburgh 1950-52, of Christian Dogmatics, also Head of Dept. 1952-; Cross of St. Mark, Cross of St. Aksum, Protopresbyter of Greek Orthodox Church; Collins Prize, Templeton Prize; Hon. D.D. (Montreal, St. Andrews), Hon. D.Theol. (Geneva, Faculté Libre Paris); Hon. Dr.Teol. (Oslo). *Publications:* The Doctrine of Grace in the Apostolic Fathers 1948, Calvin's Doctrine of Man 1949, Royal Priesthood 1955, Kingdom and Church 1956, Conflict and Agreement in the Church (two vols.) 1959, 1960, Karl Barth: Introduction to his Early Theology 1962, Theology in Reconstruction 1965, Theological Science 1969, Space, Time and Incarnation 1969, God and Rationality 1971, Theology in Reconsiliation 1975, Space, Time and Resurrection 1976, The Ground and Grammar of Theology 1979. *Leisure interests:* walking, occasional fishing, golf, travel. *Address:* New College, Mound Place, Edinburgh, EH1 2LX; 37 Braid Farm Road, Edinburgh, EH10 6LE, and Sea Spray, Canty Bay, North Berwick, East Lothian, Scotland (Homes). *Telephone:* (031) 225 8400 (Office); (031) 447 3050 (Home); (0620) 2508 (Home).

TORRE, Xavier; French diplomatist and government official; b. 11 Sept. 1910, Paris; s. of Jean-Paul Torre and Marie-Dominique Mary; m. Alberte Richard 1936; ed. Lycée de Bastia, Lycées Saint-Louis and Louis-le-Grand, Paris, and Faculty of Law, Univ. of Paris; Dept. of Economic Affairs, Central Admin. Ministry of French Overseas Territories 1936, successively Deputy Head, Head Office of Production and Trade; Deputy Dir. in Charge of Overseas Plan 1948, Joint Dir. 1952; Sec.-Gen. of Government Gen., French West Africa 1954; High Commr. to Cameroun 1958-60; Head European Economic Community Fact Finding Mission in Congo 1962-63; Admin. Optorg. 1964, Vice-Pres. 1965, Pres. 1969; Officier, Légion d'honneur and other decorations. *Address:* 2 rue Victor-Daix, 92 Neuilly-sur-Seine, France. *Telephone:* 637-42-30.

TORRES, José Garrido, M.A. (Econ.); Brazilian economist; b. 13 Jan. 1915, Rio de Janeiro; s. of late José Garrido Torres and of Olga Coelho Costa; m. Lucilia Vieira Garrido Torres; one s. one d.; ed. New York Univ. Head Brazilian Trade Bureau, New York 1947-52; Commercial Attaché, Washington 1947-52; Chair. Nat. Econ. Council 1957-58; Exec. Dir. Superintendency of Currency and Credit (SUMOC) 1958-59; mem. Nat. Econ. Council 1954-58, and 1959-64; Pres. Banco Nacional do Desenvolvimento Econômico 1964-67; Pres. Embraplan S.A., ASPE (Exec.'s Pension Assn.), Leasing & Serviços S.A.; mem. Advisory Council Siemens do Brasil, Banco Aymoré, Vidraria Santa Marina; mem. numerous national dels. to international conferences; writer of several papers on Brazilian economic problems and foreign trade; mem. Technical Council of Nat. Trade Confederation and Econ. Council of Nat. Confederation of Industry; Fellow Royal Econ. Soc.; mem. American Econ. Assn.; Charter-mem. Catholic Econ. Assn. U.S.A.; Commdr. Order of Leopold (Belgium); Great Officer of Military Order of Christ of Portugal; Tamandarés Medal. *Leisure interests:* reading, collecting rare books, music, birds. *Address:* Rua Humberto de Campos 1003, Rio de Janeiro, RJ, Brazil.

TORRIJOS HERRERA, Brig.-Gen. Omar; Panamanian army officer and politician; b. 13 Feb. 1929, Santiago, Panama; m.; three c.; ed. Mil. School, El Salvador, U.S.A., Venezuela; Commissioned Second Lieut., Panama Nat. Guard 1952; Lieut. Col. 1966; with Cen. American Defence Board, El Salvador; led coup to depose Pres. Arnulfo Arias Oct. 1968; Commdr. Panama Nat. Guard 1968-; Col. 1968; Brig.-Gen. 1969; Chief of Govt. and Supreme Leader of Panamanian Revolution 1972-78. *Address:* c/o National Guard Headquarters, Panama City, Panama.

TORROJA, José María, DR.SC.; Spanish professor of astronomy and geodesy; b. 29 Aug. 1916, Madrid; s. of José María and Isabel Torroja; m. Aurora Torroja 1962; two s.; ed. Univ. of Madrid; Geographical Engineer, Instituto Geográfico, Madrid 1942-52; Astronomer, Observatory of Madrid 1952-67; Prof. of Astronomy and Geodesy, Univ. of Madrid 1945-76; Vice-Rector, Univ. of Madrid 1971-76; mem. Real Academia de Ciencias Exactas, Físicas y Naturales. *Publications:* several publications on astronomy and geodesy. *Address:* Islas Filipinas 50, Madrid 3, Spain. *Telephone:* 2544721.

TORTELIER, Paul; French cellist and composer; b. 21 March 1914, Paris; s. of Joseph Tortelier and Marguerite Boura; m. Maud Martin 1946; one s. three d.; ed. Conservatoire Nat. de Musique de Paris; First Cellist Monte Carlo 1935-37; 3rd Cellist Boston Symphony Orchestra 1937-40; 1st Cellist Soc. des Concerts du Conservatoire de Paris 1946-47; solo cellist with leading orchestras (Europe, U.S.A., Israel, etc.) 1947-56; Prof. Conservatoire Nat. Supérieur de Musique de Paris 1956-69, Folkwang Musikhochschule, Essen; mem. Soc. des Auteurs compositeurs et éditeurs de musique; Hon. mem. Royal Acad. of Music, London; Hon. D.Mus. (Leicester Univ.) 1972, (Oxford Univ.) 1975. *Works:* Two Cello Concertos, Concerto for Two Cellos, Symphonie Israélienne, Cello Sonata, Suite for Unaccompanied Cello, Trois Petits Tours (cello and piano), Spirales (cello and piano), Elegie, Toccata (cello and piano), duos for two cellos; Cadenzas for Haydn, Schumann, Boccherini and C. P. E. Bach concertos; edition of Sammartini Sonata; Six Studies for Cello and Piano; Concerto for Violin and Orchestra; Concerto for Piano and Orchestra; Offrande. *Publication:* How I Play, How I Teach 1973. *Leisure interest:* flute playing once a year. *Address:* c/o Ibbs and Tillett, 124 Wigmore Street, London W1H 0AX, England.

TOSAR, Héctor A.; Uruguayan composer and pianist; b. 1923; ed. Montevideo, and Conservatoire Nationale de Musique, Paris, and Ecole Normale de Musique, Paris (under D. Milhaud, J. Rivier and A. Honegger); Prof. of History of Music and Musical Analysis, Conservatorio de Música, Montevideo 1951-60; Prof. of Harmony, Composition and Analysis, and Head of Theory Dept., Conservatorio de Música de Puerto Rico 1961; Guggenheim Fellowships, U.S.A. 1946-47, 1960-61. *Principal works:* Symphony for Strings 1959, Te Deum for bass, chorus and orchestra 1959, Sinfonia Concertante for piano and orchestra 1961.

TOSHIMA, Kenkichi, B.S.; Japanese metallurgical engineer and business executive; b. 30 June 1902, Osaka; s. of Yasukichi and Haru Toshima; m. Michiko Tamiya 1933; three d.; ed. Kyoto Univ.; Kobe Steel Ltd., Kobe 1932-, Dir. 1949-53, Man. Dir. 1953-56, Senior Man. Dir. 1956-58, Pres. 1958, Chair. 1972-74, Adviser 1974-; First Class Order of the Sacred Treasure; Chevalier, Légion d'honneur. *Leisure interests:* golf, Utazawa. *Address:* Kobe Steel Ltd., 36-1, 1-Chome, Wakinohamacho, Fukiai-ku, Kobe (Office); 15-16 Rokurokuso-cho, Ashiya City, Kyogo Prefecture, Japan (Home). *Telephone:* Kobe 251-1551 (Office); Ashiya 22-4561 (Home).

TÖTTERMAN, Richard Evert Björnson, LL.M., D.PHIL.; Finnish diplomatist; b. 10 Oct 1926, Helsinki; s. of B. Björn Tötterman and Katharine Clare Wimpenny; m. Camilla S. Veronica Huber 1953; one s. one d.; ed. Univ. of Helsinki and Brasenose Coll., Oxford; entered Ministry for Foreign Affairs 1952; several diplomatic posts in Stockholm 1954-56, Moscow 1956-58, at Ministry of Foreign Affairs 1958-62, Berne 1962-63, Paris 1963-66; Deputy Dir. Ministry of Foreign Affairs 1966; Sec.-Gen. Office of Pres. of Finland 1966-70; Sec.-Gen. Ministry of Foreign Affairs 1970-75; Amb. to U.K. 1975-; Knight Commdr. Order of the White Rose (Finland); Grand Cross, Order of Dannebrog (Denmark), Order of Merit (Austria), Order of Homayoun (Iran), Order of Orange-Nassau (Netherlands), Order of the Pole Star (Sweden), Order of the Falcon (Iceland); Grand Officier Ordre de la Couronne (Belgium), Order of St. Olav (Norway), Order of Merit (Poland), Order of Lion

(Senegal), Order of the Banner (Hungary), Order of Star (Romania); Hon. G.C.V.O., Hon. O.B.E. *Address:* 14 Kensington Palace Gardens, London, W.8, England. *Telephone:* 01-235 9531.

TOUFFAIT, Adolphe Auguste; French lawyer; b. 29 March 1907; ed. Faculty of Law, Rennes; Dir. Research into War Crimes, Ministry of Justice 1945-46; Civil Dir. Ministry of Armed Forces 1947-48; Minister of State for Information 1949-50; Dir, of Cabt. of Vice-Pres. of Council 1953-54; Minister of French Overseas Territories 1955-56; Dir. of Cabt. Ministry of Justice 1957-58; First Deputy Attorney for the Repub., later Attorney 1958; Counsellor, Court of Cassation 1961; Dir. of Personnel and Gen. Admin., Insp. Gen. of Judicial Services, Ministry of Justice April-Nov. 1962; First Pres. Court of Appeal of Paris 1962-67, Solicitor-Gen., Court of Cassation 1968-76; mem. European Community Court of Justice 1976-; Grand Officier, Légion d'honneur. *Address:* Court of Justice, Centre Européen, Plateau de Kirchberg, P.O. Box 1406, Luxembourg.

TOUKAN, Baha Ud-Din; Jordanian diplomatist; b. 1910, Salt, East Bank; m.; two s. one d. (the late Queen Alia of Jordan); ed. American Univ., Beirut; after graduation entered civil service; served in court of late King Abdullah of Jordan 1937-42; Gov. of Balqaa District 1946-47; transferred to Ministry of Foreign Affairs 1947; Consul-Gen., Jerusalem 1947; Minister Plentipotentiary to Cairo and Ankara 1948; Under-Sec. Ministry of Foreign Affairs 1954-56; Rep. of Arab League in Rome 1966-70; Perm. Rep. to UN 1971-72; mem. of Senate 1973; Minister of Royal Court 1973-75; retd. 1975. *Publication:* Short History of Transjordan (in English) 1945. *Address:* c/o Royal Palace, Amman, Jordan.

TOULEMON, Robert, L.EN D.; French civil servant; b. 2 July 1927, Montagnac-le-Crempse (Dordogne); s. of Henri Toulemon and Henriette Chaussade; m. Madeleine Fargeot 1951; three s.; ed. Univs. of Toulouse and Paris, Institut d'Etudes Politiques de Paris and Ecole nationale d'Administration; Inspector of Finance 1954-57; Special Mission, Ministry of Finance 1958; Head of Lectures, Institut d'Etudes Politiques de Paris 1958-60; Technical Adviser, Office of Sec. of State for Econ. Affairs and Foreign Trade 1958-60; Special Mission, Foreign Econ. Affairs Nov. 1958; Head, Export Credit Section, Ministry of Finance and Econ. Affairs 1960-62; Chef de Cabinet to Vice-Pres. of Comm. of EEC 1962-63; Dir. of Section in External Relations Directorate, Comm. of EEC 1963-67; Gen. Dir. of Industrial Affairs 1968-71, of Industrial, Technological and Scientific Affairs 1971-73; Inspector of Finance 1973-; Dir. of Cabinet of Minister of Co-operation 1974-76, mem. Cabinet of Minister of Quality of Life Jan.-Aug. 1976. *Leisure interests:* tennis, chess. *Address:* rue Monsieur 20, 75007 Paris (Office); rue d'Assas 41, 75006 Paris, France (Home). *Telephone:* 783-46-71 (Office); 222-16-59 (Home).

TOUMBAS, Vice-Admiral John N., D.S.O.; Greek naval officer and politician; b. 24 Feb. 1901; m. Yvonne-Agnes Bondi 1944; ed. naval and military schools; Distinguished Naval service, Second World War; Commdr. Salamis Dockyard 1945; Naval Attaché Washington 1946; Commdr., Naval Cadet School 1946-47; Dir. of Personnel, Admiralty 1947-49; Supreme Commdr. Coastal Defence Forces 1949-51; C.-in-C. Coastal Defences 1950-52; Nat. Military Rep., NATO Command HQ, Paris 1952; C.-in-C. of the Fleet 1952-53; Liberal M.P. 1956, Centre Union 1958-64; Minister of State Nov.-Dec. 1963; Minister of the Interior Feb. 1964-Jan. 1965; Minister of the Interior and Public Order (Security) July-Aug. 1965, of Industry Sept. 1965-May 1966, of Foreign Affairs May-Dec. 1966; M.P. (New Democracy Party) 1974-; Gold Medal for Outstanding Bravery; Grand Commdr. of Phoenix; War Cross (four awards), U.S.A. Legion of Merit, Romanian Grand Cross of August 23rd Order, Yugoslavian Grand Cross of the Star Order, Grand Cross of the Holy Tomb Order, Grand Commdr. of Danish Order. *Publication:* Enemy in Sight (memories of World War II) 1954 (Academy Award). *Leisure interests:* athletics, motoring, swimming. *Address:* 10 Alopekis Street, Athens 139, Greece. *Telephone:* 714-048.

TOURÉ, Ahmed Sekou; Guinean trade unionist and politician; b. 9 Jan. 1922; ed. Ecole Coranique, French Guinea Primary Schools, Ecole Professionnelle Georges Poiret, Conakry, Inst. Econ. Science, Prague; entered Post and Telecommunications Service, French Guinea 1941; Sec.-Gen. Syndicat du Personnel des P.T.T., mem. Comm. Consultative Fédérale du Travail, mem. Guinea Comm. Consultative Territoriale, Comms. Mixtes Paritaires et Administratives 1945; Comptable, Trésoreries (Cadre Supérieur), Sec.-Gen. Syndicat des Employés du Trésor 1946; founder-mem. Rassemblement Démocratique Africain (RDA) 1946; Sec.-Gen. Union Territoriale, Confédération Générale du Travail (CGT) 1948; Sec.-Gen. CGT Co-ordination Cttee., French West Africa and Togoland 1950; Deputy to French Nat. Assembly 1956 (elected 1951); Sec.-Gen. Guinea Democratic Party 1952-; Territorial Counsellor 1953; Pres. Confédération Générale des Travailleurs d'Afrique Noire (CGTA) 1956; Mayor of Conakry, Deputy from Guinea to French Nat. Assembly 1956; mem. Comité Directeur Fédéral, Union Générale des Travailleurs de l'Afrique Noire (UGTAN) Jan. 1957-; Territorial Counsellor, Conakry, Grand Counsellor, French West Africa, Vice-Président du Conseil, Govt. of Guinea May 1957; Vice-Prés. RDA Oct. 1957; Président du Gouvernement (Head of State), Republic of Guinea (upon declaration of independence following referendum) Oct. 1958- (re-elected 1961, 1963, 1968, 1974), Prime Minister 1958-72; Lenin Peace Prize 1960; Grand-Croix, Légion d'honneur. *Address:* Presidence de la République, Conakry, Guinea.

TOURÉ, Ismaël; Guinean politician, brother of Sekou Touré (*q.v.*); b. 1925; ed. in France; Head, Kankan Meteorological station; mem. Kankan Muncipal Council 1956; mem. Faranah Territorial Assembly; Minister of Works 1957-59, of Posts, Telegraphs and Transport 1959-61; Minister of Public Works and Transport 1961-62; Minister of Econ. Development 1963-68; Minister of Finance 1968-72, of the Economy and Finance Domain 1972-79; led Guinea del. to All-African People's Conf. 1960; del. to UN 1960, 1961; fmr. mem. Political Bureau Parti Démocratique de Guinée. *Address:* c/o Ministry of the Economy and Finance Domain, Conakry, Guinea.

TOURÉ, Mamoudou, L.EN D., PH.D.; Mauritanian diplomatist and administrator; b. 1928; ed. Univs. of Dakar and Paris and Ecole National de la France d'Outre-Mer; served in Admin. of French Overseas Territories, Paris 1957-58; Counsellor and Head of Service de Pays et Territoires d'Outre-Mer associés, Secr. of EEC Council of Ministers, Brussels 1958-61; Amb. to France, U.K., Fed. Germany, Belgium, Spain and EEC 1961-62; Sec.-Gen. Comm. for Technical Co-operation in Africa, Lagos 1962-63; Consultant for co-ordination of bi-lateral programmes, UNICEF 1963-65; Dir. UN African Inst. for Econ. Devt. and Planning, Dakar 1965-66; Amb. to Fed. Repub. of Germany, Belgium, Luxembourg and Netherlands 1966-70; Minister of Planning 1970-71; Dir. African Dept. IMF 1971-76. *Address:* c/o International Monetary Fund, 700 19th Street, N.W., Washington, D.C. 20431, U.S.A.

TOURNIER, Gilbert Edouard; French business executive and writer; b. 18 July 1901; ed. Lycée Janson de Sailly, and Ecole Polytechnique, Paris; with Compagnie nationale du Rhône since its foundation in 1933, fmr. Sec.-Gen., Dir., retd. 1966; Founder Soc. d'Etudes Mer du Nord-Méditerranée; with Compagnie nat. d'aménagement du Bas Rhin-Languedoc and Soc. du développement du Sud-Est; Founder Vallée Impériale and Editorial Cttee. Delta; Officier Légion d'honneur, Commdr. des Palmes académiques et du Mérite nat., Officier de l'Economie nationale et du Mérite commerciale. *Publications:* Rhône, dieu conquis, Le Rhône, fleuve-dieu, vous parle, Babel ou le vertige technique, Je n'ai pas de Métier, Le coeur des Hommes; *writer of film scripts:* Fleuve-dieu, Sont morts les bâtisseurs, Confluent sans âge, Suite magique, Quatuor élémentaire, Les deux parts. *Address:* 95 rue Pierre-Brunier, Caluire, Rhône, France.

TOURNIER, Michel, L. ès L., L en D., D.PHIL.; French author; b. 19 Dec. 1924, Paris; s. of Alphonse and Marie-Madeleine (née Fournier) Tournier; ed. Saint-Germain [redacted] Laye, and Univs. of Paris (Sorbonne) and Tübingen; Grand Prix du Roman, Acad. Française 1967, Prix Goncourt 1970; mem. Académie Goncourt 1972. *Publications:* Vendredi ou les Limbes du Pacifique 1967, Le Roi des Aulnes 1970, Les Météores 1975, Le Vent Paraclet 1977, Le coq de bruyère 1978. *Leisure interest:* photography. *Address:* Le presbytère, Choisel, 78460 Chevreuse, France. *Telephone:* 052-05-29.

TOUSEY, Richard, PH.D.; American physicist; b. 18 May 1908, Somerville, Mass.; s. of Coleman Tousey and Adella R. H. (Hill) Tousey; m. Ruth Lowe 1928; one d.; ed. Tufts and Harvard Univs.; Instructor Harvard Univ. 1933-36; Research Instructor Tufts Univ. 1936-41; Physicist in Optics Div., Naval Research Laboratory 1941-58, Head of Rocket Spectroscopy Branch, Space Science Div. (fmrly. Atmosphere and Astrophysics Div.) 1958-; Henry Norris Russell Lecturer, American Astronomical Soc. 1966; Whiting Fellow, Harvard Univ. 1929-31, Bayard Cutting Fellow 1935-36; mem. Nat. Acad. of Sciences of U.S.A.; Fellow American Academy of Arts and Sciences, American Physical Society, Optical Society of America, American Geophysical Union; mem. American Astronomical Soc. (Vice-Pres. 1964-66), A.A.A.S., and numerous other U.S. and int. socs.; Hon. D.Sc. (Tufts Univ.); several awards, including Prix Ançel Award of Soc. Française de Photographie 1962, Henry Draper Medal of Nat. Acad. of Sciences 1965, Navy Award for Distinguished Achievement in Science 1963, Eddington Medal of Royal Astronomical Soc. 1964, NASA Exceptional Scientific Achievement Medal 1974. *Publications:* Numerous articles in various technical journals. *Leisure interests:* music, ornithology. *Address:* Code 7140,

U.S. Naval Research Laboratory, Washington, D.C. 20375; 7725 Oxon Hill Road, S.E., Washington, D.C. 20021, U.S.A. (Home). *Telephone:* 202-767-3441 (Office).

TOUSSAINT, Michel; D. EN DROIT; Belgian politician; b. 26 Nov. 1922, Namur; ed. Univ. of Liège; Lawyer, Barreau de Namur 1954; mem. Council, Order of Lawyers of Barreau de Namur 1970; Local Councillor, Namur; First Alderman of Namur 1965; mem. Senate 1963, Vice-Pres. 1971; Minister, Sec. of State for Nat. Educ. 1966-68; Minister of Nat. Educ. 1973-74, of Foreign Trade 1974-76. *Address:* c/o Ministère du Commerce Extérieur, Brussels, Belgium.

TOVAR LLORENTE, Antonio, DR. EN FIL. Y LET.; Spanish university professor; b. 17 May 1911, Valladolid; s. of Antonio Tovar and Anselma Llorente; m. Consuelo Larrucea 1942; three s. two d.; ed. Univs. of Valladolid and Madrid, Sorbonne and Univ. of Berlin; Under-Sec. for Press Affairs 1940; Prof. of Latin, Univ. of Salamanca 1942-63, Rector of Univ. 1951-56; Visiting Prof. Univ. of Buenos Aires 1948-49; Univ. Nac. Tucumán 1958-59; Visiting Prof. Univ. of Illinois 1960-61, Prof. of Classics 1963-67 (retd.); Prof. Univ. of Tübingen 1967-79; Hon. D.Phil. (Munich, Buenos Aires); Hon. mem. Acad. Vasca, Bilbao 1974, Akad. der Wissenschaften, Heidelberg 1975; mem. Royal Acad. of Spain 1968. *Publications:* En el Primer Giro: Estudios sobre la antigüedad 1941, Lengua gótica 1946, Gramática histórica latina: Sintaxis 1946, Vida de Sócrates 1947, Estudios sobre las primitivas lenguas hispánicas 1949, Aristóteles Retórica (text and trans.) 1953, Socrate, sa vie et son temps 1954, Euripides, Alcestis y Andromaca (text and trans.) 1955, Un Libro sobre Platón 1956, The Basque Language 1957, El Euskera y sus Parientes 1959, Platón, el Sofista (text and trans.) 1959, Euripides, Bacantes y Hécuba (text and trans.) 1960, Ensayos y peregrinaciones 1960, The Ancient Languages of Spain and Portugal 1961, Catálogo de las Lenguas de América del Sur 1961, Propercio (text and trans.) 1963, Tendido de Sol 1968, An Introduction to Plato 1969, El telar de Penélope 1971, Novela Española e Hispanoamericana 1972, Sprachen und Inschriften, Studien zum Mykenischen, Lateinischen und Hispanokeltischen 1973, Iberische Landeskunde: Baetica 1974, Lusitanien 1976. *Leisure interest:* music. *Address:* General Mola III apartado, 6° derecha, Madrid 2, Spain. *Telephone:* 2612150.

TOVSTONOGOV, Georgiy Aleksandrovich; Soviet theatrical producer; b. 28 Sept. 1915, Tbilisi; s. of Aleksandr Andreyevich Tovstonogov and Tamara Grigoryevna Papitashvili; m.; two s.; ed. Lunacharsky Inst. of Theatrical Art; Actor and Asst. Dir. Tbilisi 1931; studied at Lunacharsky Inst. 1933-38; Dir. Griboyedov Russian Drama Theatre, Tbilisi 1938-46; produced in Central Theatre for Children, Moscow 1946-49; Producer Leningrad Komsomol Theatre 1949-56; Chief Dir. Leningrad State Bolshoi Drama Theatre 1956-; Deputy to U.S.S.R. Supreme Soviet 1966-; People's Artist of the U.S.S.R., Order of Lenin (twice), Order of Red Banner, U.S.S.R. State Prize (four times) and other decorations. *Productions include:* Even a Wise Man Stumbles, The Storm (Ostrovsky), An Optimistic Tragedy (Vishnievsky), On the Road to Immortality, The Sixth Floor (from the French of A. Jeri), Fox and Grapes, The Idiot (Dostoyevsky), Sorrow from the Mind (Griboyedov), Virgin Soil Upturned (Sholokhov), Three Sisters (Chekhov), Barbarians (Gorky), Inspector General (Gogol), Philistines (Gorky), Last Summer in Chulimsk (Vampilov), Three Sacks of Weedy Wheat (Tendrjakov), The Story of a Horse (Tolstoy), The Pickwick Club (Dickens) 1978, Quiet Flows the Don (Sholokov) 1978. *Leisure interest:* collecting masks. *Address:* Leningrad State Academic Bolshoi Drama Theatre, 65 Fontanka, Leningrad, U.S.S.R.

TOWE, Peter Milburn, M.A.; Canadian diplomatist; b. 1 Nov. 1922, London, Ont.; s. of Allen M. and Clare (Durdle) Towe; m. Carol Krumm 1953; one s. two d.; ed. Univ. of W. Ontario and Queen's Univ.; joined Dept. of External Affairs 1947, served in Washington, Bonn, Beirut, Paris; Deputy Dir. Gen., External Aid Office 1962-67; Minister, Canadian Emb., Washington 1967-72; Amb. and Perm. Rep. to OECD 1972-75; Asst. Under-Sec. of State for External Affairs 1975-77; Amb. to U.S.A. 1977-. *Leisure interests:* golf, fishing. *Address:* Canadian Embassy, 1746 Massachusetts Avenue, N.W., Washington, D.C. 20036, U.S.A.

TOWEETT, Taaitta, PH.D.; Kenyan politician; b. 5 May 1925, Kericho; s. of Toweett and Tapaasee Maera; m.; two s. one d.; ed. Alliance High School and Makerere Coll., Uganda, and Univs. of South Africa and Nairobi; mem. Legislative Council 1958-59; Asst. Minister of Agric. 1960-61; Minister of Labour and Housing 1961-62, of Lands, Survey and Town Planning 1962-63, of Educ. 1969-74, of Housing and Social Services 1974-76, of Educ. 1976-78, of Housing and Social Services 1978-; Pres. 19th Session of Gen. Conf. of UNESCO. *Publication:* Tears over a Dead Cow (short stories), Epitaph on Colonialism (poems) 1979, Traditional History of Kipsigis 1979, English-Swahili-Kalenjin Nouns Pocket Dictionary 1979, Study of Kalenjin Linguistics 1979. *Leisure interest:* study of origins of personal names. *Address:* Ministry of Housing and Social Services, Nairobi, Kenya. *Telephone:* 28411 (Office); 891-386 (Home).

TOWER, John; American politician; b. 29 Sept. 1925; ed. Southwestern Univ., Texas, Southern Methodist Univ., and London School of Economics and Political Science, England; Radio Announcer, Beaumont, Texas 1948, Taylor, Texas 1948-49; Insurance Agent, Dallas 1950-51; Assistant Professor of Political Science, Midwestern University Texas 1951-61; U.S. Senator from Texas (elected to fill vacancy caused by election of Lyndon Johnson as Vice-President of U.S.A.; re-elected 1966, 1972, 1978) May 1961-; Ranking Republican Senate Armed Services Comm.; mem. Banking, Housing and Urban Affairs Comm., Rules Comm.; Republican. *Address:* Senate Office Building, Washington, D.C., U.S.A.

TOWNES, Charles Hard, PH.D.; American physicist; b. 28 July 1915, Greenville, S. Carolina; s. of Henry Keith and Ellen Sumter Hard; m. Frances H. Brown 1941; four d.; ed. Furman and Duke Univs., California Inst. of Technology; Asst. Calif. Inst. of Technology 1937-39; mem. Technical staff, Bell Telephone Laboratories 1939-47; Assoc. Prof. of Physics, Columbia Univ. 1948-50, Prof. 1950-61; Exec. Dir. Radiation Laboratory 1950-52, Chair. Dept. of Physics 1952-55; Vice-Pres. and Dir. of Research, Inst. for Defense Analyses 1959-61; Provost and Prof. of Physics, Mass. Inst. of Technology 1961-66, Inst. Prof. 1966-67; Univ. Prof., Univ. of Calif. 1967-; Trustee Carnegie Inst. of Washington 1965-, Board of Dirs. Perkin-Elmer Corpn. 1966-, Rand Corpn. 1965-70, Gen. Motors 1973-, Bulletin of the Atomic Scientists 1964-69; Chair. Science and Technology Advisory Comm. for Manned Space Flight, Nat. Aeronautics and Space Administration 1964-69; Chair. Space Science Board, National Acad. of Sciences 1970-73; Guggenheim Fellow 1955-56; Fulbright Lecturer, Paris 1955-56, Tokyo 1956; Scott Lecturer, Cambridge 1963; Lincoln Lecturer 1972-73; Halley Lecturer, Oxford 1976; Welch Lecturer 1977; mem. President's Science Advisory Cttee. 1966-70, Vice-Chair. 1967-69; Centennial Lecturer, Univ. of Toronto 1967; mem. Editorial Board Review of Scientific Instruments 1950-52, Physical Review 1951-53, Journal of Molecular Spectroscopy 1957-60, etc.; Fellow, American Physical Soc. (Council mem. 1959-62, 1965-, Pres. 1967), Inst. of Electrical and Electronics Engineers; mem. American Acad. of Arts and Sciences, American Philosophical Soc., American Astronomical Soc., Space Program Advisory Council, NASA, National Acad. of Sciences (council mem. 1967-72, 1978-81); Hon. mem. Optical Soc. of America; Foreign mem. Royal Society 1976; awards include Comstock Award (Nat. Acad. of Sciences) 1959, Stuart Ballantine Medal (Franklin Inst.) 1959, 1962, Rumford Premium (American Acad. of Arts and Sciences) 1961, David Sarnoff Award in Electronics (American Inst. of electrical Engineers) 1961, John A. Carty Medal (Nat. Acad. of Sciences) 1962, Thomas Young Medal and Prize (Inst. of Physics and Physical Soc., England) 1963, Nobel Prize for Physics 1964, Distinguished Public Service Medal (NASA) 1969; Medal of Honor, Inst. of Electrical and Electronics Engineers 1967, Phyler Prize American Physical Soc. 1977; hon. degrees include D.Litt., Sc.D., Dott.Ing., LL.D., L.H.D., D. Med Sc.; holder of patents in electronics, including fundamental patents on masers and lasers, etc. *Publications:* Microwave Spectroscopy 1955; other scientific papers on microwave spectroscopy, molecular and nuclear structures, radio and infra-red astronomy, masers and lasers, etc. *Leisure interest:* natural history. *Address:* University of California, Department of Physics, Berkeley, Calif. 94720, U.S.A.

TOWNSEND, Lynn A.; American motor car executive; b. 12 May 1919, Flint. Mich.; s. of Lynn A. Townsend and Georgia E. Crandall; m. Ruth Mildred Laing 1940; three s.; ed. Univ. of Michigan; Accountants, Briggs and Icerman 1939-41, Ernst and Ernst 1941-44, 1946-47; Supervisory Accountant and Partner, Touche, Niven, Bailey and Smart 1947-57; Comptroller, Chrysler Corpn. 1957-58, Group Vice-Pres. (Int. Operations) 1958-60, Dir. 1959. Admin. Vice-Pres. 1960-61, Pres. 1961-66, Chief Exec. Officer 1966-75, Chair. of the Board 1967-75. *Address:* Bloomfield Hills, Mich. 48013, U.S.A. *Telephone:* 313-626-1880.

TOYE, Wendy; British theatrical producer, film director, choreographer, actress and dancer; b. 1 May 1917; d. of Ernest W. and Jessie Crichton (Ramsay) Toye; ed. privately, trained with Euphen MacLaren, Tamara Karsavina, Anton Dolin, Morosoff, Legat, Marie Rambert; first performance aged 3 years, Albert Hall; first professional appearance as Mustardseed (Midsummer Night's Dream), Old Vic 1929; prin. dancer Hiawatha, Albert Hall 1931; played Marigold and Phoebe, and produced dances, Toad of Toad Hall, Royalty 1931-32; masked dancer Ballerina, Gaiety 1933; mem.

Ninette de Valois' original Vic Wells Ballet, danced in C. B. Cochran's The Miracle, Lyceum 1932, prin. dancer The Golden Toy, Coliseum 1934; toured with Anton Dolin's Ballet (choreographer for divertissements and short ballets) 1934-35; Tulip Time, Alhambra, then prin. dancer and choreographer, Markova-Dolin Ballet 1935; arranged dances and ballets for many shows and films 1935-42, including most of George Black's productions notably Black Velvet (also prin. dancer) 1939; Shakespearean season, Open Air Theatre 1939; *Theatre productions:* Big Ben, Bless the Bride, Tough at the Top (for C. B. Cochran), Adelphi, The Shepherd Show, Prince's, Peter Pan (co-dir. and choreographer), New York, And So To Bed, New Theatre, Feu d'Artifice (co-dir. and choreographer), Paris, Night of Masquerade, Queen, Second Threshold, Vaudeville, Three's Company (choreographer) in Joyce Grenfell Requests the Pleasure, Fortune, Wild Thyme, Duke of York's, Lady at the Wheel and Robert and Elizabeth, Lyric, Hammersmith, Majority of One, Phoenix, Magic Lantern and On the Level, Saville, As You Like It, Old Vic, Virtue in Danger, Mermaid and Strand, A Midsummer Night's Dream, Shakespeare quatercentenary, Latin American tour 1964, Soldier's Tale, Edinburgh Festival 1967, Boots and Strawberry Jam, Nottingham Playhouse 1968, The Great Waltz, Drury Lane 1970, Showboard, Adelphi 1971, She Stoops to Conquer, Young Vic 1972, Cowardy Custard, Mermaid 1972, Stand and Deliver, Roundhouse 1972; at Chicester R. Loves J 1973, The Confederacy 1974, Follow The Star 1974, Made in Heaven 1975, Make Me a World 1976, Once More with Music 1976, Oh Mr. Porter, Mermaid 1977; *opera productions:* Bluebeard's Castle (Bartók), Sadler's Wells and Brussels, The Telephone (Menotti), Russalka (Dvořák), and La Vie Parisienne, Sadler's Wells, Die Fledermaus, Coliseum and Sadler's Wells, Orpheus in the Underworld, Sadler's Wells and Australia, The Abduction from the Seraglio, Bath Festival 1967, The Impresario, Don Pasquale (for Phoenix Opera Group) 1968, The Italian Girl in Algiers, Coliseum 1968; *films directed:* The Stranger Left No Card 1952, The Teckman Mystery, Raising a Riot, The Twelfth Day of Christmas, Three Cases of Murder 1954, All for Mary 1955, True as a Turtle 1956, We Joined the Navy 1962, The King's Breakfast, Cliff in Scotland, A Goodly Manor for ■ Song, Girls Wanted—Istanbul; productions for TV, musicals, variety, cabaret; appeared with and ■■■ choreographer for Camargo Soc.; Guest Artist with Salder's Wells Ballet and Mme. Rambert's Ballet Club; prin. dancer with British Ballet organized by Adeline Genée, Denmark 1932; The Queen's Silver Jubilee Medal. *Leisure interests:* embroidery, gardening. *Address:* c/o London Management, 235 Regent Street, London, W.1, England.

TOYODA, Eiji; Japanese motor executive; b. 12 Sept. 1913, Kinjo, Nishi Kasugai-gun, Aichi-ken; s. of Heikichi and Nao Toyoda; m. Kazuko Toyoda; three s. one d.; ed. Tokyo Univ.; Pres. Toyota Motor Co. Ltd. 1967-; Dir. Aishin Seiki Co. Ltd. 1965-, Toyota Automatic Loom Works Ltd. 1969, Aichi Steel Works Ltd. 1961-, Toyota Machine Works Co. Ltd. 1964-, Toyota Central Research and Devt. Laboratories Inc. 1960, Toyota Motor Sales Co. Ltd. 1971-, Towa Real Estate Co. Ltd. 1953-, Toyota Motor Sales U.S.A. Inc. 1957-, Chiyoda Fire and Marine Insurance Co. Ltd. 1973-; Chair. Japan Automobile Mfrs. Assn. 1972-, Japan Motor Industrial Fed. 1972-; Exec. Dir. Japan Fed. of Employers' Assns. 1967, Fed. of Economic Orgs. 1967; Blue Ribbon Medal 1971. *Leisure interests:* reading, music. *Address:* 1 Toyota-cho, Toyota-shi, Aichi-ken (Office); 12 Yagen, Takemachi, Toyota-shi, Aichi-ken, Japan (Home). *Telephone:* 0565-28-2121 (Office); 0565-52-7535 (Home).

TRABUCCHI, Alberto, LL.D.; Italian lawyer; b. 26 July 1907, Verona; m. Nanda Nanni Sparavieri 1945; five c.; ed. Liceo Maffei, Verona, Univ. of Padua; Asst., Istituto di Filosofia del Diritto, Padua 1929-35; Lecturer in Civil Law, Univ. of Ferrara 1936-40; Prof. of Private Law, Univ. of Venice 1938-52; Prof. of Civil Law, Univ. of Padua 1942-, of Roman Law 1943-45, of Private Comparative Law 1949-60; Mayor of Illási (Verona) 1950-; Judge, Court of Justice of European Communities 1962-72; Advocate-Gen., Court of Justice of European Communities 1972-76; Doyen Padua Faculty of Tuinsprudence; Dir. of Giurisprudenza Italiana and Rivista diritto civile. *Publications:* Il Matrimonio putativo 1936, Il Dolo nella teoria dei vizi del volere 1937, Codice delle Comunità Europea 1962, Commentario Trattato C.E.E. 1965, Istituzioni di Diritto civile 1978; Commentario alla informa del diritto di faninglia (3 vols) 1976. *Address:* Via Rudena 39, Padua, Italy. *Telephone:* 20-615 (Padua).

TRACY, Honor Lilbush Wingfield; British writer; b. 19 Oct. 1913, Bury St. Edmunds, Suffolk; d. of Humphrey Tracy and Christabel May Clare Miller; ed. Grove School, Highgate, London; Foreign Corresp. The Observer 1947-50. *Publications:* Travel: Kakemono: A Sketchbook of Postwar Japan 1950, Mind You, I've Said Nothing 1953, Silk Hats and No Breakfast 1957, Spanish Leaves 1964, Winter in Castille 1973; Fiction: The Deserters 1954, The Straight and Narrow Path 1956, The Prospects are Pleasing 1958, A Number of Things 1959, A Season of Mists 1961, The First Day of Friday 1963, Men at Work 1966, The Beauty of the World 1967, Settled in Chambers 1968, The Butterflies of the Province 1970, The Quiet End of Evening 1972, In ■ Year of Grace 1975, The Man From Next Door 1977, The Ballad of Castle Reef 1979. *Leisure interests:* travelling, gardening, botany and wild life. *Address:* Four Chimneys, Achill Sound, Co. Mayo, Ireland. *Telephone:* Achill Sound 45.

TRAIN, Russell Errol, LL.B.; American conservationist; b. 4 June 1920, Washington, D.C.; s. of Rear Admiral Charles R. Train and Errol C. (Brown) Train; m. Aileen Bowdoin 1954; one s. three d.; ed. St. Albans School, Washington, D.C., Princeton and Columbia Univs.; Attorney, Congressional Joint Cttee. on Internal Revenue Taxation 1948; Clerk (Chief Counsel), House Cttee. on Ways and Means 1953, Minority Adviser 1955; Treasury Dept. 1956; Judge, Tax Court of U.S.A. 1957-65; Pres. Conservation Foundation 1965-69; mem. Nat. Water Comm. 1968-69; Under-Sec. of the Interior 1969-70; Chair. Council on Environmental Quality 1970-73; Dir. Environmental Protection Agency 1973-78; Senior Assoc. Conservation Fund 1977-; fmr. Pres. and fmr. Vice-Pres. and Dir. World Wildlife Fund; fmr. Dir. American Cttee. for Int. Wildlife Protection; mem. Exec. Cttee., Int. Union for Conservation of Nature and Natural Resources; several hon. degrees. *Address:* 1717 Massachusetts Avenue, N.W., Washington, D.C., 20036, U.S.A. (Office).

TRAMPCZYŃSKI, Witold; Polish economist; b. 22 Oct. 1909, Podlesie; m. Róża Trąmpczyński 1945; one s. one d.; ed. European and American Univs.; Rockefeller Fellow, Univ. of Vienna 1934-35; Asst. at Univ. of Poznań 1935-38; Rockefeller Fellow, Harvard Univ., Univ. of Chicago, Berkeley Univ., and London School of Econs. 1938-39; Lecturer and Asst. Prof., Univ. of Poznań 1939; working in Bank Emisyjny (Issue Bank) in Cracow 1939-45; Prof., Univ. of Cracow 1945-46; Deputy Gen. Man. Nat. Bank of Poland 1945-47, Gen. Man. 1947-53, Pres. 1954-56; Vice-Minister of Finance 1950-56; Minister of Foreign Trade Dec. 1956-68; Prof. High School of Planning and Statistics, Warsaw 1960-; First Deputy Pres. Planning Comm. attached to Council of Ministers 1968-71, Acting Chair. March-Oct. 1971; Deputy to Seym 1969-72; Amb. to U.S.A. 1971-78; mem. Polish Workers' Party 1947-48, Polish United Workers' Party 1948-, Deputy mem. Cen. Cttee. 1964-71; decorations include Order of Banner of Labour 1st Class 1959, 1964, Order of Polonia Restituta 1966. *Publications:* Notion of Capital 1936, Capitalism 1939. *Leisure interests:* motoring, horse riding. *Address:* ul. Wiejska 14 m. 13, 00-490 Warsaw, Poland (Home).

TRAN BUU KIEM; Vietnamese politician; b. 1921, Can Tho; ed. Faculty of Law, Hanoi Univ.; mem. Indo-Chinese Student Org.; organized ■ popular uprising in Saigon 1945; Sec.-Gen. Admin. and Resistance Cttee. for Southern Region of Viet-Nam, Indo-Chinese Student Org., Deputy Dir. for Econ. Services in Southern Region 1950; Deputy Sec.-Gen. Cen. Cttee. of Democratic Party 1960; mem. Cen. Cttee. NLF; Pres. Student Union of South Viet-Nam; head of NLF Del. to Paris Conf. on Viet-Nam; Minister to Presidency Provisional Revolutionary Govt. of South Viet-Nam 1975-76. *Address:* c/o Office of the President, Hanoi, Viet-Nam.

TRAN NAM TRUNG (*see* Tran Van Tra, Gen.).

TRẦN THIEN KHIEM, Gen.; Vietnamese army officer and politician; b. 15 Dec. 1925. Army service 1947-75; held off attempted coup against Pres. Diem 1960, took part in coup against him 1963; with Gen. Nguyen Khan led coup removing Gen. Duong Van Minh 1964; Defence Minister and C.-in-C. 1964; Amb. to U.S.A. 1964-65, to Repub. of China 1965-68; Minister of the Interior 1968-73, Deputy Prime Minister March-Aug. 1969, Prime Minister 1969-75, Minister of Defence 1972-75; fled to Taiwan April 1975.

TRAN VAN HUONG; Vietnamese politician; b. 1 Dec. 1903; fmr. schoolteacher; participated in Viet-Minh resistance against French; Prefect of Saigon 1954 and 1964; Prime Minister Repub. of Viet-Nam 1964-65, 1968-69; Vice-Pres. of Repub. of Viet-Nam 1971-75, Pres. 21-28 April 1975; Hon. Corporal Repub. of Viet-Nam Armed Forces 1974.

TRAN VAN LAM; Vietnamese politician and pharmacist; b. 30 July 1913, Cho Lon; ed. Hanoi Univ.; Charter Sec.-Gen. Viet-Nam Pharmacists Assn. 1951-52; elected Saigon City Council 1952; mem. Cttee. for Protection of Econ. Interests of the South Vietnamese People 1952-54; Speaker, Constitutent Assembly; First Legis. Assembly 1956-57; Majority Leader in Assembly 1957-61; Amb. to Australia and New Zealand 1961-64; Chair., Board Viet-Nam Commercial and Ind. Bank 1964-67; Chair., Cong Thuong Dia Oc Cong Ty 1966-67; Man. Dir., Saigon Duoc Cuoc 1964-67; Minister of Foreign Affairs 1969-73; Speaker of Senate 1973-75.

TRAN VAN TRA, Gen.; Vietnamese army officer and politician (also known by other names Tu Chi and Tran Nam Trung); b. 1918, Quang Ngai Province, S. Viet-Nam; Alt. mem. Cen. Cttee. Lao Dong Party; Deputy Chief of Staff, North Vietnamese Army; Chair. Mil. Affairs Cttee., Cen. Office of South Viet-Nam (COSVN) 1964-76; rose to rank of three-star general May 1975; Minister of Defence, Provisional Revolutionary Govt. of S. Viet-Nam 1969-76 (in Saigon 1975-76); head of mil. cttee. controlling Saigon and District May 1975-Jan. 1976; Chair. Inspectorate, Council of Ministers, Socialist Repub. of Viet-Nam July 1976-. *Address:* Council of Ministers, Hanoi, Viet-Nam.

TRAORE, Big.-Gen. Moussa; Mali army officer and politician; b. 25 Sept. 1936, Kayes; ed. Training Coll., Fréjus, Cadets Coll., Kati; became N.C.O. in French Army; returned to Mali 1960; promoted Lieut. 1964, Col. 1971; at Armed Forces Coll., Kati until 1968; led coup to depose Pres. Modibo Keita Nov. 1968; Pres. Mil. Cttee. for Nat. Liberation (Head of State) Nov. 1968-, also Prime Minister Sept. 1969-; Pres. of Govt; Minister of Defence, Interior and Security 1978-; Pres. Conf. of Heads of State, Union Douanière des Etats de l'Afrique de l'Ouest 1970. *Address:* Cabinet du Président, Comité militaire de libération nationale, Bamako, Mali.

TRAPEZNIKOV, Vadim Aleksandrovich, D.SC.; Soviet power engineer; b. 28 Nov. 1905, Moscow; m. Sofia Trapeznikova 1946; ed. Moscow Higher Technical School; Power Engineer, All-Union Electrotechnical Inst. 1928-33; Instructor, Moscow Power Eng. Inst. 1930-39, Prof. of Automation and Electrical Machine Building 1939-41; Inst. of Control Sciences 1941-, Dir. 1951-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-60, mem. 1960-; mem. CPSU 1951-; Chief Editor Automation and Telemechanics, U.S.S.R. Acad. of Sciences 1955-; Deputy Chair. State Cttee. for Science and Technology 1965-; Chair. Nat. Comm. on Automatic Control 1957–; mem. U.S.S.R. Acad. of Sciences, Hungarian Acad. of Sciences, Serbian Acad. of Sciences, Czechoslovak Acad. of Sciences; Order of Red Banner of Labour, State Prize 1946, 1953, 1971, Order of Lenin 1965, Hero of Socialist Labour 1965, Grand Gold Medal of U.S.S.R. Acad. of Science 1975. *Publications:* Design Principles for a Series of Asynchronous Machines 1937, Automatic Checking of Linear Dimensions in Manufactured Articles 1947, Generalized Conditions of Proportionality and Optimum Geometry of Transformers 1948, Cybernetics and Automatic Control 1962, Problems of Technical Cybernetics in Institute of Automation and Telemechanics 1964; and over 60 other works 1929-74. *Address:* Institute of Control Sciences, 81 Profsoyuznaya ulitsa, GSP-312 Moscow, U.S.S.R.

TRAUTMAN, Andrzej, Polish theoretical physicist; b. 4 Jan. 1933, Warsaw; s. of Mieczyslaw and Eliza André; m. Róża Michalska 1962; two s.; ed. Warsaw Tech. Univ., Warsaw Univ.; Asst. Inst. of Radiolocation, Tech. Univ., Warsaw 1952-53, Inst. of Applied Math. 1953-55; postgraduate studies, Inst. of Physics, Polish Acad. of Sciences 1955-58, Doctorate 1959; Lecturer 1959; scientific training, Imperial Coll., King's Coll., London, Univ. of Syracuse, U.S.A. 1959-61; Scientist, Inst. of Theoretical Physics, Warsaw Univ. 1961-, Asst. Prof. and Head of Dept. Electrodynamics and Theory of Relativity 1962-68, Extraordinary Prof. 1964-71, Ordinary Prof. 1971-; Deputy Dir. Inst. of Theoretical Physics 1968-74, Dir. 1975–; Corresp. mem. Polish Acad. of Sciences 1969-76, mem. 1977-, Vice-Pres. 1978-80, mem. Presidium 1972-, Chair. Cttee. of Physics, Polish Acad. of Sciences; Deputy Chair. Gen. Board of Polish Phys. Assn. 1970-73; mem. Int. Cttee. of Theory of Relativity and Gravitation, Editorial Staff Annales de l'Institut H. Poincaré, Reports on Mathematical Physics, Int. of Theoretical Physics; Visiting Prof., American Math. Soc., Santa Barbara 1962, Coll. de France, Paris 1963, Brandeis Univ., U.S.A. 1964, Univ. of Chicago 1971, Univ. of Pisa, Italy 1972, State Univ. of N.Y. at Stony Brook 1976-77, The Schrödinger Professorship, Univ. of Vienna 1972; State Prize 1st Class 1976, Gold Cross of Merit, Chevalier, Cross of Order of Polonia Restituta. *Publications:* numerous works on theory of gravitation waves, energy of gravitation field, modern methods of differential geometry and their application in physics, Einstein-Cartan's Theory. *Leisure interest:* chess. *Address:* Instytut Fizyki Teoretycznej UW, ul. Hoża 69, 00-681 Warsaw (Office); ul. Słupecka 4, 02-309 Warsaw, Poland (Home). *Telephone:* 283396 (Office); 229048 (Home).

TRAUTMAN, Gerald Hough, LL.B.; American business executive; b. 27 Aug. 1912; s. of Newton E. and Madelaine (Hough) Trautman; ed. Stanford and Harvard Univs.; admitted to Calif. Bar 1937; partner, McCutchen, Doyle, Brown, Trautman and Enersen 1937-65; Pres. Greyhound Corpn. 1966-70, Dir. 1966-, Chair. of Board and Chair. Exec. Cttee. 1968-; Dir. numerous Greyhound subsidiaries and industrial concerns; mem. American Bar Assn. *Address:* Greyhound Tower, Phoenix, Ariz. 85077 (Office); 6246 Bret Hill Drive, Scottsdale, Ariz. 85253, U.S.A. (Home).

TRAUTMANN, Rezsö; Hungarian politician; b. 1907. Structural engineer; Chair. Nat. Office of Building Construction 1953; Deputy Minister of Building Industry 1951-53, Minister 1957-68; mem. Pres. Council; Pres. Scientific Soc. of Bldg.; Order of Merit 1977. *Address:* Presidential Council, Kossuth Lajos tér 1/3, H-1357 Budapest V, Hungary.

TRAVELL, Janet, M.D.; American physician; b. 17 Dec. 1901, New York, N.Y.; d. of J. Willard Travell and Janet E. Davidson; m. John William Gordon Powell 1929; two d.; ed. Wellesley Coll. and Cornell Univ. Medical Coll.; fmr. medical practice in New York; Assoc. Prof. of Clinical Pharmacology, Cornell Univ. Medical Coll. 1951-63; Official Physician to the White House 1961-65; Assoc. Clinical Prof. of Medicine, George Washington Univ. School of Medicine 1961-70, Prof. Emer. 1970-; Special Consultant to Surgeon-Gen., U.S.A.F. 1962-64; Chair. Inaugural Medical Care and Public Health Cttee., Washington, D.C. 1965; Consultant to Veterans Admin. Hosp., Long Beach, Calif., Dept. of Rehabilitation Medicine 1974-; Fellow, New York Acad. of Medicine, Royal Soc. of Medicine, Int. Assn. for the Study of Pain, etc.; Pres. N. American Acad. of Manipulative Medicine 1968-69; Dr. h.c. of Medical Sciences (Women's Medical Coll. of Pa.) 1961; Hon. D.Sc. (Wilson Coll.) 1962; mem. many professional insts. *Publications:* Scientific papers and autobiography Office Hours: Day and Night 1969. *Leisure interests:* home, gardening, tennis, reading. *Address:* 4525 Cathedral Avenue, N. W., Washington, D.C. 20016, U.S.A. *Telephone:* 202-363-9090.

TREADWELL, (Charles) James, C.M.G., C.V.O.; British diplomatist (retd.); b. 10 Feb. 1920; s. of the late C. A. L. Treadwell; m. Philippa Perkins 1946; three s.; ed. Wellington Coll., N.Z., Univ. of N.Z.; mil. service 1939-45; Sudan Political Service and Judiciary 1945-55; at Foreign Office 1955-57; with High Comm., Lahore 1957-60, Embassy, Jeddah 1960-62; Deputy High Commr. for Eastern Nigeria 1965-66; Head of Joint Inf. Services Dept., FCO 1966-68; Political Agent, Abu Dhabi 1968-71; Amb. to United Arab Emirates 1971-73; High Commr. in Bahamas 1973-75; Amb. to Oman 1975-79; Adviser to Hill Samuel Group Ltd. on Middle East Affairs 1979-. *Address:* 48 Lindfield Gardens, Guildford GU1 1TS, England. *Telephone:* 0483 69380.

TREBACZKIEWICZ, Krzysztof, M.L.; Polish politician; b. 2 July 1939, Lwów (now Lvov, U.S.S.R.); ed. Univ. of Łódź; activist in youth orgs.; mem. Union of Polish Youth (ZMP) 1955-56; mem. Polish Students' Assn. (ZSP) 1957-62; mem. Union of Socialist Youth (ZMS) 1957-76, mem. ZMS Łódź Cttee. 1963-64, Deputy Chair. District Board, Łódź-Śródmieście 1964-66, Deputy Head Organizational Dept. of Gen. Board ZMS, Head 1966-70; mem. Cen. Cttee. Polish United Workers' Party (PZPR) 1970-73; Sec. PZPR Voivodship Cttee., Cracow 1973-75; Pres. Gen. Board of Soc. for Propagation of Physical Culture (TKKF) Nov. 1975-; Chair. Gen. Board ZMS 1975-76; Chair. Gen. Board Union of Polish Socialist Youth (ZSMP) April 1976-; Deputy Chair. Gen. Board of Fed. of Socialist Unions of Polish Youth (FSZMP) 1975-77, Chair. Gen. Board April 1977-; Deputy to Seym (Parl.) March 1976-; Deputy mem. Cen. Cttee. Polish United Workers' Party (KC PZPR) Dec. 1975-; mem. Presidium of AU-Poland Cttee. of Nat. Unity Prout (OK FJN) Dec. 1977-; Chevalier, Cross of Order of Polonia Restituta, J. Krasicki Gold, Silver and Bronze Awards. *Address:* Rada Główna Federacji Socjalistycznych Związków Młodzieży Polskiej, ul. Nowy Swiat 18/20, 00-920 Warsaw, Poland.

TREHOLT, Thorstein; Norwegian farmer and politician; b. 13 April 1911, Skoger, Vestfold; ed. Vestfold School of Agriculture and State Farmers Training School; Asst. to Oppland County Agric. Officer 1938; District Agric. Officer, Brandbu 1939-47; Travelling Inspector, Agric. Loan Fund 1948-49; Lecturer, Valdres Agric. School 1949, Dir. of School 1951-60; Asst. Sec., Ministry of Agric. 1954-57; mem. Storting 1958-77, Chair. Parl. Agric. Cttee. 1961-65, Vice-Chair. 1965-69; Minister of Agric. 1971-72, 1973-76; Labour Party. *Address:* c/o Ministry of Agriculture, Oslo; 2760 Brandbu, Norway. *Telephone:* Brandbu 1450.

TREICHL, Dr. Heinrich; Austrian banker; b. 31 July 1913, Vienna; s. of Dr. Alfred and Dorothea Treichl (née Baroness Ferstel); m. Helga Ross 1946; two s.; ed. Univs. of Frankfurt, Germany and Vienna; Dir. Banque des Pays de l'Europe Centrale, Paris, Mercur Bank AG and Länderbank Wien AG, Vienna 1936-39; Partner, Ullstein and Co., Vienna 1946-55; Dir. Österreichische Industrie- und Bergbauverwaltungs GmbH, Vienna 1956-58; Dir. Creditanstalt-Bankverein, Vienna 1958-, Chair. of Man. Board 1970-; mem. Board of Govs. Österreichische Nationalbank; Pres. Austrian Bankers' Assn.; Head Banking Section, Fed. Chamber of Commerce; Vice-Pres. Vienna Stock Exchange; Grosses Goldenes Ehrenzeichen Republik Österreich; Commdr. Order Homayoun;

Commdr. Légion d'honneur; Kt. Commdr. Order of St. Gregory. *Leisure interests:* literature, hunting, skiing. *Address:* 1030 Vienna, Salmgasse 2, Austria. *Telephone:* 73-31-50.

TREIMAN, Sam Bard, PH.D.; American professor of physics; b. 27 May 1925, Chicago, Ill.; s. of Abraham Treiman and Sarah (Bard) Treiman; m. Joan Little 1952; one s. two d.; ed. Northwestern Univ. and Univ. of Chicago; joined Princeton Univ. 1952, Professor of Physics 1963-; Sloan Fellow; Guggenheim Fellow; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences. *Publications:* Formal Scattering Theory (with M. Grossjean), Lectures on Current Algebra (with R. Jackiw and D. Gross) 1972; and numerous papers in professional journals. *Leisure interests:* tennis, reading. *Address:* Physics Dept., Princeton University, Princeton, N.J. 08540, U.S.A. (Office); 60 McCosh Circle, Princeton, N.J. 08540 (Home). *Telephone:* 452-4350 (Office); 924-0592 (Home).

TREJOS FERNÁNDEZ, José Joaquín; Costa Rican university professor and politician; b. 18 April 1916, San José; s. of Juan Trejos and Emilia F. de Trejos; m. Clara F. de Trejos 1936; five s.; ed. Univ. of Chicago; Former Prof. of Statistical Theory and Dean, Faculty of Econ., Univ. de Costa Rica; Pres. of Costa Rica 1966-70; Partido Unión Popular (PUP). *Publications:* Reflexiones sobre la Educación, 2nd edn. 1968, Ocho Años en la Política Nacional—Ideales Políticos y Realidad Nacional, Vol. I 1973, Vol. III 1973, Vol. IV 1973, Vol. II 1974. *Leisure interests:* music, history. *Address:* Apartado 1313, San José, Costa Rica. *Telephone:* 24-24-11.

TRELFORD, Donald Gilchrist, M.A.; British journalist; b. 9 Nov. 1937, Coventry; s. of Mr. and Mrs. T. S. Trelford; m. 1st Janice Ingram 1963; two s. one d.; m. 2nd Katherine Louise Mark 1978; ed. Bablake School, Coventry, Selwyn Coll. Cambridge; Pilot Officer, R.A.F. 1956-58; worked on newspapers in Coventry and Sheffield 1961-63; Editor Times of Malawi and Corresp. in Africa, The Times, Observer, BBC 1963-66; joined Observer as Deputy News Editor 1966, Asst. Man. Editor 1968, Deputy Editor 1969-75, Dir. and Editor Jan. 1976-; mem. British Exec. Cttee., Int. Press Inst. 1976-, of Council Roehampton Inst. of Higher Educ. 1976; Patron, Milton Keynes Civic Forum. *Leisure interests:* golf, cricket, squash. *Address:* The Observer, 8 St. Andrew's Hill, London EC4V 5JA, England. *Telephone:* 01-236 0202.

TRELLES MONTES, Dr. Oscar; Peruvian physician and politician; psychiatric practice, Lima; fmr. Minister of Public Health; Prime Minister and Minister of Interior July 1963-Jan. 1964; Amb. to France 1964-65; Sec.-Gen. Partido Acción Popular 1965-68. *Address:* Partido Acción Popular, Nicolás de Piérola 677, Lima, Peru.

TREMBLAY, Paul, B.A., LL.B., L.SC.SOC.; Canadian diplomatist; b. 6 July 1914, Chicoutimi, Quebec; s. of François and Eugénie Tremblay; m. Gertrude Nadeau; one s. two d.; ed. Univ. of Montreal, McGill and George Washington Univs.; Dept. of External Affairs 1940-; Second Sec. Washington 1943-46, Santiago 1946-49; Dept. of External Affairs, Ottawa 1949-51; Second Sec. The Hague 1951-54; Del. to NATO and OEEC, Paris 1954-57; Dept. of External Affairs, Ottawa 1957-59; Amb. to Chile 1959-62; Perm. Rep. to UN, New York 1962-66; Amb. to Belgium and Luxembourg and EEC 1966-70; Assoc. Under-Sec. of State for External Affairs 1970-73; Amb. to the Holy See Oct. 1973-. *Address:* Embassy of Canada, Via della Conciliazione 4/D, 00193 Rome, Italy.

TREMELLONI, Roberto; Italian political economist and politician; b. 30 Oct. 1900, Milan; m. Emma Nascimbene 1928; one d.; ed. Univs. of Turin and Geneva; Under-Sec. Ministry for Industry 1946, Minister 1947; Deputy to Parl. 1948-; Minister for European Econ. Co-operation 1948 and Del. to O.E.E.C. 1949; Pres. Parl. Comm. on Unemployment and Milan Electricity Authority 1952; Minister of Finance 1954-55; Pres. Parl. Cttee. on Free Competition Limits 1961; Treasury Minister 1962-63; Minister of Finance 1964-65, of Defence 1966-68; Pres. of Budget Comm. of Chamber of Deputies 1969-70; Social Democrat. *Publications include:* La Storia dell'Industria Italiana Contemporanea, L'Industria Tessile Italiana, L'Italia in un'Economia Aperta, Il Danaro Pubblico. *Leisure interest:* economic literature. *Address:* Chamber of Deputies, Rome; and Via Pellegrini 18, Milan, Italy.

TRENCH, Sir David, G.C.M.G., M.C., D.L.; British colonial administrator; b. 2 June 1915, Quetta, Pakistan; s. of W. L. C. and Margaret (née Huddleston) Trench; m. Margaret Gould 1944; one d.; ed. Tonbridge and Jesus Coll., Cambridge; Colonial Admin. Service, British Solomon Islands 1938, mil. service there 1942-46, later held several posts in Pacific; Hong Kong 1950, Deputy Colonial Sec. 1959-61; High Commr. for Western Pacific 1961-64; Gov. and C.-in-C. Hong Kong April 1964-Oct. 1971; Vice-Chair. Advisory Cttee. on Distinction Awards, Dept. of Health and Social Security 1972-; Chair. Dorset Area Health Authority 1974-; mem. Dorset County Council 1973-; Hon. LL.D. (Univ. of Hong Kong and Chinese Univ. of Hong Kong). *Leisure interests:* golf, photography. *Address:* Church House, Church Road, Shillingstone, Blandford Forum, Dorset, DT11 0SL, England. *Telephone:* Childokeford 350.

TREND, Baron (Life Peer), cr. 1974, of Greenwich in Greater London; **Burke St. John Trend,** P.C., G.C.B., C.V.O.; British civil servant; b. 2 Jan. 1914; s. of late Walter St. John Trend; m. Patricia Charlotte Shaw 1949; two s. one d.; ed. Whitgift School, and Merton Coll., Oxford; entered Civil Service (Ministry of Education) 1936, Treasury 1937, Asst. Private Sec. to Chancellor of the Exchequer 1939-41, Principal Private Sec. 1945-49, Under-Sec. to Treasury 1949-55, Office of Lord Privy Seal 1955-56, Deputy Sec. of the Cabinet 1956-59, Third Sec. Treasury 1959-60, Second Sec. Treasury 1960-62, Sec. to Cabinet 1963-73; Rector Lincoln College, Oxford 1973-; Trustee Nuffield Foundation 1973-, British Museum 1973-; Dir. Hudson Bay Co. 1973-, Provident Life Insurance Assen. 1974-; Visitor Loughborough Tech. Univ. 1979-. *Address:* Lincoln College, Oxford, England.

TRENGGANU, H.R.H. The Sultan of; Tunku Ismail Nasiruddin Shah Ibni Almarhum Sultan Zainal Abidin, D.K., D.K.M., D.M.N., S.P.M.T., K.C.M.G.; Ruler of Trengganu State; b. 24 Jan. 1907; joined Trengganu Civil Service 1929, later served ■ High Court Registrar and Chief Magistrate; acceded to throne of Trengganu 1945, installed 1949; Timbalan Yang di-Pertuan Agung (Deputy Head of State) of Malaya, later Malaysia 1960-66, Yang di-Pertuan Agung (Head of State) 1966-70. *Address:* Istana Badariah, Kuala Trengganu, Trengganu, Malaysia.

TRETHON, Dr. Ferenc; Hungarian economist and politician; b. 1923, Eger; started career in coal mines of Komló; served in Ministry of Mining and Energy, later in Ministry of Coal Mining; Head of Econ. Dept., Ministry of Heavy Industry 1957-74; Deputy Minister of Finance 1974; Minister of Labour June 1977-; Chair. Hungarian Nat. Mining and Foundry Union Cttee. for Industrial Econ.; mem. Hungarian Acad. of Sciences Cttee. for Industrial Economy and Org.; Hungarian Communist (now Socialist Workers') Party 1948-; Titular Univ. Asst. Prof.; Labour Order of Merit (golden degree) 1965, Lóránd Eötvös Prize 1974. *Address:* Ministry of Labour, Budapest V, Szabadság tér 15, Hungary. *Telephone:* 322-100.

TRETHOWAN, (James) Ian (Raley); British broadcasting executive; b. 20 Oct. 1922, High Wycombe; s. of Major J. J. R. Trethowan, M.B.E. and late Mrs. Roy Trethowan; m. Carolyn Reynolds 1963; three d.; Newspaper Reporter, Norwich and York; Observer, Fleet Air Arm during Second World War; Political Corresp. Yorkshire Post 1947; Political Corresp. News Chronicle 1955; Newscaster and Diplomatic Corresp., Independent Television News (ITN), then Deputy Editor 1958, and later Political Editor; Commentator on politics and current affairs, British Broadcasting Corpn. (BBC) 1963-70, Man. Dir. Radio 1970-75, Man. Dir. BBC TV 1976-77, Dir.-Gen. 1977-; Political Contributor, Economist 1950-58, 1965-67, The Times 1967-69; mem. Cttee. on Official Secrets Acts 1971-72; Fellow Brition Inst. of Man. 1978-; Univ. of Calif. Award for programme about U.S.A. 1961. *Address:* BBC, Broadcasting House, Portland Place, London, W.1, England.

TREURNICHT, Andries Petrus, M.A., PH.D., M.P.; South African politician; b. 19 Feb. 1921, Piketberg; s. of Andries Petrus Treurnicht and Hester Johanna E. Albertyn; m. Engela Dreyer 1949; four d.; ed. Piketberg High School, Univ. of Stellenbosch, Theological Seminary, Stellenbosch and Univ. of Cape Town; Minister, Dutch Reformed Church 1946-60; Editor Die Kerkbode 1960-67, Hoofstad 1967-71; mem. Parl. for Waterberg 1971-; Leader of Nat. Party in Transvaal Nov. 1978-; Deputy Minister of Educ. and Training Jan. 1976-78, of Plural Relations and Devt. 1978-79; Minister of Public Works, Statistics and Tourism June 1979-. *Publications:* thirteen publications on various religious subjects. *Address:* Ministry of Public Works, Private Bag X65, 0001 Pretoria, South Africa. *Telephone:* 485171.

TREVASKIS, Sir (Gerald) Kennedy (Nicholas), K.C.M.G., O.B.E.; British diplomatist; b. 1 Jan. 1915, Hove, Sussex; s. of Rev. Hugh Kennedy Trevaskis and Gwendolen Eva Constance Myfanwy Tizard; m. Sheila Harrington 1945; two s. one d.; ed. Marlborough and King's Coll., Cambridge; Colonial Admin. Service 1938, Cadet, N. Rhodesia; British Mil. Admin., Eritrea 1941-48, British Admin. 1948-50; Dist. Officer, N. Rhodesia 1950-51; Political Officer, Western Aden Protectorate 1951-52, Deputy British Agent 1952-54, Adviser and British Agent 1954-63; Deputy High Commr. for Aden and the Protectorate of South Arabia Jan.-June 1963, High Commr. 1963-64; Dir. Sunningdale Oils. *Publications:* A Colony in Transi-

tion: the British Occupation of Eritrea 1960, Shades of Amber 1968. *Leisure interests:* gardening, beagling. *Address:* 20 Empire House, Thurloe Place, London, S.W.7, England.

TREVELYAN, Baron (Life Peer), cr. 1968; **Humphrey Trevelyan,** K.G., G.C.M.G., C.I.E., O.B.E.; retired British diplomatist; b. 27 Nov. 1905, Hindhead, Surrey; s. of Rev. George Philip Trevelyan; m. Violet Margaret (d. of Gen. Sir William Bartholomew, G.C.B., C.M.G., D.S.O.); two d.; ed. Lancing Coll., and Jesus Coll., Cambridge; joined Indian Civil Service 1929; Indian Political Service 1932-47; Political Agent in Indian States; Sec. to Agent-Gen. for India in Washington, D.C. 1944-46; Joint Sec., Ministry of External Affairs, New Delhi 1946-47; entered H.M. Foreign Service 1947; Counsellor, Baghdad Embassy 1948; Economic and Financial Adviser to U.K. High Commr. in Germany 1951-53; Chargé d'Affaires, Peking, 1953-55; Amb. to Egypt 1955-56; Under-Sec. UN 1958; Amb. to Iraq 1958-61; Deputy Under-Sec. Foreign Office 1962; Amb. to U.S.S.R. 1962-65; High Commr. in Aden 1967; Pres. Council of Foreign Bondholders 1965-; Dir. British Petroleum Co. Ltd. 1965-75, British Bank of the Middle East 1965-77, Gen. Electric Co. Ltd. 1967-75; Chair. of Trustees, British Museum 1970-79; Chair. Royal Inst. of Int. Affairs 1970-77; Hon. Fellow, Jesus Coll., Cambridge; Hon. LL.D. (Cambridge) 1970; Hon. D.C.L. (Durham) 1973; Hon. D.Litt. (Leeds) 1975. *Publications:* The Middle East in Revolution 1970, Worlds Apart 1971, The India We Left 1972, Diplomatic Channels 1973. *Address:* 13 Wilton Street, London, S.W.1, England. *Telephone:* 01-235 4503.

TREVOR-ROPER, Hugh Redwald; cr. Life Peer June 1979; British historian; b. 15 Jan. 1914, Glanton, Northumberland; s. of the late Dr. B. W. E. Trevor-Roper and of Mrs. Trevor-Roper; m. The Lady Alexandra Haig 1954; ed. Charterhouse and Christ Church, Oxford; Research Fellow, Merton Coll., Oxford 1937-39; Student of Christ Church, Oxford 1945-57; Regius Prof. of Modern History in the Univ. of Oxford 1957-; Dir. Times Newspapers Ltd. 1974-; Chevalier, Légion d'honneur 1976. *Publications:* Archbishop Laud 1940, The Last Days of Hitler 1947, Hitler's Table Talk (Editor) 1953, The Gentry 1540-1640 1954, The Poems of Richard Corbett (Editor, with J. A. W. Bennett) 1955, Historical Essays 1957 (American title, Men and Events 1958), Hitler's War Directives (Editor) 1964, The Rise of Christian Europe 1963, Religion, the Reformation and Social Change 1967 (American title The Crisis of the 17th Century 1968), The Philby Affair 1968, The European Witch-Craze in the 16th and 17th Centuries 1970, Queen Elizabeth's First Historian 1971, Princes and Artists: Patronage and Ideology at Four Hapsburg Courts 1976, A Hidden Life: The Enigma of Sir Edmund Backhouse 1976, Goebbels Diaries, The Last Days (Editor) 1978. *Address:* Oriel College, Oxford; and 8 St. Aldate's, Oxford, England. *Telephone:* 40043.

TREZISE, Philip H.; American analyst and diplomatist; b. 27 May 1912, Calumet, Michigan; s. of Norman R. and Emma A. Trezise; m. Ruth E. Dorsey 1938; two s.; ed. Univ. of Michigan; Research Assoc. Univ. of Michigan until 1941; Analyst, Office of Defense Transportation 1942; Office of Strategic Services, U.S. Navy 1943-46; Chief Research Analyst, then Chief of Div. of Research for Near East and Africa, later Deputy Dir. Office of Intelligence and Research, mem. Policy Planning Staff; Nat. War Coll. 1949-50; Minister of Econ. Affairs, U.S. Embassy, and Dir. of Agency for Int. Devt. (AID) Mission, Tokyo 1957-61; Deputy Asst. Sec. of State for Econ. Affairs 1961-65; Head of U.S. Del. to Org. for Econ. Co-operation and Devt. (OECD) Jan. 1966-69; Asst. Sec. of State for Econ. Affairs 1969-72; Senior Fellow, Brooking Inst. 1971-; mem. Nat. Comm. on Supplies and Shortages 1975-; Commr. Triketeral Comm. 1976-; Adjunct Prof. Dept. of Political Science, Columbia Univ. 1978; Dir. Bank of Tokyo Trust Co. 1976, Atlantic Council, Pres. Japan—America Soc. 1973-76; President's Award for Distinguished Fed. Civilian Service 1965. *Address:* 1775 Massachusetts Avenue, N.W., Washington D.C. 20036 (Office); 6900 Broxburn Drive, Bethesda, Md., U.S.A. (Home). *Telephone:* 229-3443 (Home).

TRIANTAFYLLIDES, Michalakis Antoniou; Cypriot judge; b. 12 May 1927, Nicosia; ed. Gray's Inn, London; practised as lawyer in Cyprus 1948-60, serving for three years as Sec. of Human Rights Cttee. of Bar; mem. Greek Cypriot del. to Joint Constitutional Comm. which drafted Cyprus Constitution 1959-60; Greek Cypriot Judge, Supreme Constitutional Court 1960-, now Pres.; mem. European Comm. of Human Rights 1963-. *Address:* Supreme Constitutional Court of Cyprus, Nicosia, Cyprus.

TRIBOULET, Raymond, L. EN DR., L. ES L.; French politician; b. 3 Oct. 1906, Paris; s. of Maurice Triboulet and Josèphe Wagner; m. Luce Chauveau 1928; three s. three d.; ed. Univ. of Paris; active in French Resistance 1941-44; Sous-Préfet for Bayeux region 1944-46; Regional Inspector for Rhine-Palatinate 1946; mem. Parl. 1946-; founder of Federalist group in French Parl.; Pres. of Gaullist Parl. Group (Social Republicans) 1954-58; Minister of War Veterans Jan.-Oct. 1955; mem. ECSC Common Assembly 1957; Pres. Union of New Republic (UNR) 1958; Minister of War Veterans 1959-63, of Co-operation 1963-66; re-elected Deputy 1958, 1962, 1967 and 1968; mem. European Parl. 1967-73; Pres. UDE group 1968-; Pres. D-Day Commemoration Cttee.; Chevalier Légion d'honneur; Croix de guerre; Médaille de la Résistance; Hon. O.B.E., and other decorations. *Publications:* Les Billets du Négus 1939, Sens dessus dessous 1951, Des Vessies pour des Lanternes 1958, Halte au Massacre 1966, Correspondence de Gaston de Renty (1611-1649) 1978. *Address:* 119 rue Brancas, 92310 Sèvres, France.

TRICART, Jean Léon François; French university professor; b. 16 Sept. 1920, Montmorency; s. of François Tricart and Lea Cordonnier; m. Denise Casimir 1944; four s.; ed. Lycée Rollin, Paris, and Univ. de Paris à la Sorbonne; Asst. Lecturer, Univ. de Paris 1945-48; Lecturer Univ. of Strasbourg 1948-49, Asst. Prof. 1949-55, Prof. 1955-; Vice-Dean, mem. of Univ. Senate 1967-70; Principal Asst., Geological Map of France 1960; Founder-Dir. Centre of Applied Geography, Strasbourg 1956-; Pres. Applied Geomorphology Comm. of Int. Geographical Union 1960-68; Head of numerous technical co-operation missions in Senegal, Mauritania, Ivory Coast, Guinea, Togo, Mali, Brazil, Chile, Venezuela, Peru, Panama, El Salvador, Colombia, Uruguay; FAO, UNDP and UNESCO Senior Consultant 1968-; scientific assessor of Inst. de Recherche Agronomique Tropicale; Chair. French Nat. Cttee. of INQUA 1976-; Dr. h.c. (Univ. of Łódź, Poland). *Publications:* include numerous scientific articles and Principes et méthodes de la Gémorphologie 1965, Traité de Géomorphologie (with A. Cailleux), 6 vols. to date, La terre, Planète vivante, Ecogéographie et Aménagement rural (with J. Kilian). *Leisure interest:* philately. *Address:* Centre de Géographie Appliquée, Université Louis-Pasteur, Strasbourg, 43 rue Goethe, 67083 Strasbourg-CEDEX; and 85 route de la Meinau, 67100 Strasbourg-Meinau, France. *Telephone:* 35-43-00, ext. 279 (Office); 39-09-86 (Home).

TRIFFIN, Robert, LL.D., PH.D.ECON.; American economist; b. 5 Oct. 1911, Flobecq, Belgium; s. of François Triffin and Céline van Hooland; m. Lois Brandt 1940; three s.; ed. Kain-lez Tournai, Louvain Univ., Harvard Univ.; Instructor, Harvard 1939-42; Chief Latin American Div., Bd. of Govs. Fed. Reserve System 1942-46; Int. Monetary Fund, Chief Exchange Control Div. 1946-48, Chief Rep. in Europe 1948-49; Special Policy Adviser, Econ. Co-operation Admin. and Alternate U.S. Rep. European Payments Union 1949-51; Frederick William Beinecke Prof. of Econs. Master of Berkeley Coll., Yale Univ. 1951-77; headed numerous monetary and banking reorganization missions to Latin American countries, Iran, etc.; Consultant to UN 1952; Council of Econ. Advisers (U.S.) 1953-54, 1961; Consultant OEEC 1957-58, EEC 1958-; Vice-Pres. American Economic Assn. 1966-67; Guest Prof. Univ. Coll. de Louvain la Neuve 1977-78; mem. Council of Economic Advisers, Société d'Econ. Pol. (Paris); mem. American Acad. of Arts and Sciences, World Acad. of Art and Science; Assoc. Acad. Royale de Belgique; Commdr. Ordre de la Couronne (Belgium) 1973; Wells Prize, Harvard 1939. *Publications:* Monopolistic Competition and General Equilibrium Theory 1940, Monetary and Banking Reform in Paraguay 1946, Europe and the Money Muddle 1957, Gold and the Dollar Crisis 1960, The Evolution of the International Monetary System: Historical Reappraisal and Future Perspectives 1964, The World Money Maze: National Currencies in International Payments 1966, Our International Monetary System: Yesterday, Today and Tomorrow 1968, The Future of the Pound 1969, How to Arrest a Threatening Relapse into the 1930's? 1971. *Leisure interests:* reading, bridge, hiking, horseback riding. *Address:* 403A Yale Station, Yale University, New Haven, Conn. 06520 (Office); 125 High Street, New Haven, Conn. 06520, U.S.A. (Home). *Telephone:* 436-8580 (Office); 777-4380 (Home).

TRILLO PAYS, Dionisio Martín Enrique; Uruguayan author and librarian; b. 1909; ed. Univ. de la República, Montevideo; Dir. Nat. Library of Uruguay 1947-; mem. Nat. Comm. for Archives of Artigas 1947; mem. Council on Legal Rights of Authors 1947; Editor Asir, literary review 1949-. *Publications:* Mediodía (play) 1940, Pompeyo Amargo 1942, Zarzas (stories) 1944, Estas hojas no caen en otoño 1946, El patio de los naranjos (play) 1950. *Address:* Biblioteca Nacional, Guayabo 1793, Montevideo, Uruguay.

TRINTIGNANT, Jean-Louis (Xavier); French actor; b. 11 Dec. 1930, Piolenc (Vaucluse); s. of Raoul Trintignant and Claire Tourtin; m. 1st Colette Dacheville (the actress Stéphane Audran) 1954 (divorced); m. 2nd Nadine Marquand, one s. two d.; ed. Faculté de Droit, Aix-en-Provence; theatre debut 1951; *played in:* Macbeth, Jacques ou la Soumission (Ionesco), Hamlet, Bonheur,

impaire et passe (Sagan), etc.; film roles 1955-; Prix d'interprétation de l'Acad. du Cinéma (for Mata Hari, Agent H21) 1965; Prize, Cannes Festival (for Z) 1969; Prix David de Donatello, Taormina Festival 1972. *Films include:* Et Dieu créa la femme 1956, Club de femmes 1956, Les liaisons dangereuses 1959, L'été violent 1959, Austerlitz 1959, La millième fenètre 1959, Pleins feux sur l'assassin 1960, Coeur battant 1960, Le jeu de la verité 1961, Horace 62 1961, Les sept péchés capitaux 1961, Il sorpasso 1962, Il successo 1962, Chateau en Suède 1963, La bonne occase 1964, Mata Hari, Agent H21 1964, Angélique marquise des anges 1964, Meurtre à l'italienne 1965, La longue marche 1965, Le 17e ciel 1965, Paris brûle-t-il? 1965, Un homme et une femme 1966, Safari diamants 1966, Trans-Europ-Express 1966, Mon amour, mon amour 1967, L'homme qui ment 1967, Les biches 1968, Le voleur de crimes 1968, Z 1969, Ma nuit chez Maud 1969, Disons un soir à diner 1969, L'Américain 1969, La mort a pondu un oeuf 1969, Le conformiste 1970, Si douces, si perverses 1970, Le grand silence 1971, Une journée bien remplie (author and director) 1973, Le train 1973, Les violins du bal 1973, Le mouton enragé 1974, Le secret 1974, Le jeu avec le feu 1975, Shattering 1977, Le désert des Tartares 1977, The French way 1978, L'argent des autres 1978, Le maitre nageur 1979. *Address:* 18 avenue Emile-Deschanel, 75017 Paris, France.

TRIP, Fokele Hendrik Pieter; Netherlands politician; b. 10 Oct. 1921, Amersfoort; m.; three s. three d.; ed. Univ. of Amsterdam; Officer in Army Information Service, Indonesia 1946-49; Sec. Management Board, Polak and Schwarz Scents and Flavours Industries, Zaandam; Chair. Management Board of Dutch branch Int. Flavors and Fragrances, Chair. Exec. Board controlling European branches -1972; Chair. Exec. Board State Univ., Utrecht 1972-; Nat. Pres. Catholic Industrial Pastoral Work Assen.; Minister of Science Policy and Univ. Educ. 1973-77; mem. Radical Political Party. *Address:* Second Chamber of States General, Het Binnenhof, The Hague, Netherlands.

TRIPATHI, Kamalapati; Indian politician; Member, Legislative Assembly of Uttar Pradesh 1936-; Minister for Irrigation and Information and later for Home Affairs, Educ. and Information, U.P.; Deputy Chief Minister of Uttar Pradesh 1969-71, Chief Minister 1971-73; Minister of Shipping and Transport 1973-75, of Railways 1975-77; mem. Rajya Sabha 1973-. *Address:* 9 Akbar Road, New Delhi 110011, India.

TRIPP, (John) Peter, C.M.G.; British diplomatist; b. 27 March 1921; m. Rosemary Rees Jones 1948; one s. one d.; ed. Sutton Valence School, Institut de Touraine. Royal Marines 1941-46; Sudan Political Service 1946-54; H.M. Foreign Service (later Diplomatic Service) 1954-; Amb. to Libya 1970-74; High Commr. in Singapore 1974-78; Amb. to Thailand 1977-78. *Address:* c/o Foreign and Commonwealth Office, King Charles Street, London, S.W.1, England.

TRIVEDI, Sir Chandulal Madhavlal, K.C.S.I., C.I.E., O.B.E., B.A.; Indian civil servant; b. 2 July 1893; s. of Madhavlal and Ujamben Trivedi; m. Kusum Trivedi 1906; one s.; ed. Bombay Univ., Elphinstone Coll., Bombay, and St. John's Coll., Oxford; entered I.C.S. 1917; served as Asst. Commr., Central Provinces 1917-21; after serving in various capacities, posted as Dep. Sec. to Govt. of India Home Dept. 1932-35 (Act. Joint Sec. April-Sept. 1934); Sec. to Govt. of India Secretariat Organization Cttee. 1935-36; Commr. Berar 1936, Chattisgarh Div. 1936-37; Chief Sec. to Govt. C.P. and Berar 1937-42; Sec. to Govt. of India War Dept. 1942-46; Gov. of Orissa 1946-47; Gov. of Punjab from Aug. 15th 1947-53; Gov. of Andhra 1953-56; Gov. of Andhra Pradesh 1956-57; mem. Planning Comm. Govt. of India 1957-63; Chair. Madhya Pradesh Police Comm. 1964-65; Hon. LL.D. (Punjab Univ.); Hon. D.Litt. (Andhra Univ.); Padma Vibhushan award 1956; Chancellor Gujarat Ayurveda Univ. Nov. 1966-; Pres. Bharat Scouts and Guides 1967-73. *Leisure interests:* walking, gardening, reading. *Address:* Chandra-Bhuvan, Kapadwanj, Gujarat, India.

TROFIMUK, Andrey Alekseyevich; Soviet petroleum geologist; b. 16 Aug. 1911, Khvetkovichi, Byelorussia; s. of Aleksey Ustinovich Trofimuk and Yelizaveta Onisimovna; m. Amina Taufikovna 1931; three s. one d.; ed. State Univ. of Kazan; Head Geologist and Scientific Leader of Central Research Laboratory of the "Vostokneft" Trust 1934-40; Chief Geologist "Ishimbaineft" Trust 1940-42, "Bashneft" Soc. 1942-50; Chief Geologist, Main Oil and Gas Exploration Dept., Ministry of Oil Industry of U.S.S.R. 1950-53; Dep. Dir. All-Union Oil and Gas Scientific Research Inst. 1953-55, Dir. 1955-58; Dir. Inst. of Geology and Geophysics, Siberian Branch, U.S.S.R. Acad. of Sciences 1958-; Deputy to U.S.S.R. Supreme Soviet 1962-74; mem. U.S.S.R. Acad. of Sciences 1958-; mem. Presidium U.S.S.R. Acad. of Sciences, First Vice-Chair. Siberian Branch; Editor Geology and Geophysics; Hero of Socialist Labour 1944, State Prizes 1946, 1950, Hon. Scientist of R.S.F.S.R. 1957, Order of Lenin (four), Order of Red Banner of Labour 1959, 1961, Order of October Revolution. *Publications:* On the Nature of Ishimbaevo Oil-Bearing Massifs 1936, An Outline of Tectonics and Oil Content of Volga-Ural Region 1939, Oil Content of Paleozoic Beds of Bashhiria 1950, Conditions of Formation of Oil Deposits of Ural-Volga Oil-Bearing Region 1955, Gas Resources of the U.S.S.R. 1959, Oil and Gas Content of Siberian Platform 1960, Gas-Bearing Prospects of the U.S.S.R. 1963, Geology and Oil and Gas Content of West Siberian Lowland, a New Oil-Bearing Province of the U.S.S.R. 1963, Oil- and Gas-Bearing Basins of the U.S.S.R. 1964, Tectonics and Oil and Gas-Bearing prospects of Platform Regions of Siberia (with Yu. A. Kosygin) 1965, Some Questions on the Theory of Organic Origin of Oil and the problem of Diagnostics of Oil-Source Beds (with A. E. Kontorovich) 1965, On the Methods of Calculation of Prognostic Reserves of Oil 1966, Geology of Oil and Gas of Western Siberia (co-author) 1975. *Leisure interests:* fishing, hunting. *Address:* Institute of Geology and Geophysics, Academgorodok, Novosibirsk 630090, U.S.S.R. *Telephone:* 65-46-50.

TROFIN, Virgil, E.ECON.; Romanian politician; b. 26 July 1926, Lipovăt, Vaslui County; m. Eugenia Trofin; one s. one d.; ed. Bucharest Acad. of Economics; mem. Cen. Cttee. Communist Youth (UCY) 1945-47, First Sec. of its Cen. Cttee. 1956-64; mem. Romanian Communist Party (RCP) 1945-; Alt. mem. Cen. Cttee., RCP 1955-60, mem. Cen. Cttee. 1960-, Sec. Cen. Cttee, 1965-71, alt. mem. Exec. Political Cttee. of Cen. Cttee. 1965-68, mem. 1968-, Standing Presidium of Cen. Cttee. 1968-74; Chair. Nat. Union of Agricultural Production Co-operatives 1969-71; mem. Grand Nat. Assembly 1957, Nat. Council of Socialist Unity Front 1968-, Defence Council of Romania 1969-74; Chair. Gen. Trade Union Confederation 1971-72; Vice-Chair. Council of Ministers and Minister of Home Trade 1972-74; First Sec. RCP Cttee., Chair. Exec. Cttee. People's Council, Brasov County 1974-77; Minister of Forest Econ. and Bdg. Materials 1977-78; Vice-Prime Minister 1978-; Deputy Chair. Council of Ministers 1978-; Hero of Socialist Labour 1971. *Address:* c/o Central Committee of the Romanian Communist Party, Bucharest, Romania.

TROISGROS, Jean Georges; French chef and restaurateur; b. 2 Dec. 1926, Chalon-sur-Saône; s. of Jean-Baptiste and Marie (née Badaut) Troisgros; m. Maria Guinamand; one s. one d.; ed. Collège Saint-Jean Bosco, Roanne; Apprentice chef in numerous Paris restaurants; subsequently in partnership with brother Pierre Troisgros, Roanne; Gold Medal, Meilleur ouvrier de France 1968. *Leisure interest:* tennis. *Address:* Restaurant Troisgros, Face à la Gare, 42300 Roanne, France. *Telephone:* 77.71.66.97.

TROUGHTON, Sir Charles Hugh Willis, Kt., C.B.E., M.C., T.D., B.A.; British administrator and business executive; b. 27 Aug. 1916, Chalfont St. Giles, Bucks.; s. of late Charles Vivian and Constance Scylla Troughton; m. Constance Gillean Mitford 1947; three s. one d.; ed. Haileybury Coll., Trinity Coll., Cambridge; joined Territorial Army 1938, Oxford and Bucks. Light Infantry 1939, prisoner of war 1940-45; called to the Bar 1945; Dir. W. H. Smith and Son (Holdings) Ltd. 1949-77, Chair. 1972-77; Dir. Electric and Gen. Investment Co. Ltd. 1967-, Chair. 1977-; Chair. Open Univ. Educational Enterprises Ltd. 1977-; Chair. British Council 1977-; Dir. Equity and Law Life Assurance Soc. Ltd. 1965-77, Barclays Bank U.K. Man. Ltd. 1973-, Barclays Bank Int. Ltd. 1977-, Thomas Tilling Ltd. 1973-, William Collins and Sons (Holding) Ltd. 1977-, Whitbread and Co. Ltd 1978-; mem. Standing Cttee. London School of Econs. and Political Science 1975-, Court of Govs. 1977-; mem. Design Council 1975-78, Royal Coll. of Art Council 1976-, Royal Literary Fund Gen. Cttee. 1976-, London Library Cttee. 1976, Board of Man. Navy, Army and Air Force Insts. 1953-73. *Leisure interests:* reading, country pursuits. *Address:* c/o The British Council, 10 Spring Gardens, London, SW1A 2BN, England. *Telephone:* 01-930-8466.

TROVOADA, Miguel Anjos da Cunha Lisboa; São Tomé politician; fmrly. in charge of foreign relations for the São Tomé and Príncipe Liberation Movement (MLSTR), now mem. Political Bureau; Prime Minister of São Tomé and Príncipe July 1975-, also Minister of Defence and Foreign Affairs July-Dec. 1975, of Econ. Co-ordination, Co-operation and Tourism Dec. 1975-. *Address:* Gabinete do Primeiro Ministro, São Tomé, São Tomé and Príncipe.

TROWBRIDGE, Alexander B.; American business executive; b. 12 Dec. 1929, N.J.; s. of A. Buel and Julie Chamberlain Trowbridge; m. Nancey Horst 1955; two s. one d.; ed. Phillips Acad., Andover, Mass., and Princeton Univ.; U.S. Marine Corps during Korean War; with overseas operations of several petroleum companies in Cuba, El Salvador, Panama and Philippines; Pres. and

Div. Man. Esso Standard Oil Co. of Puerto Rico until 1965; Asst. Sec. of Commerce for Domestic and Int. Business 1965-67; Acting Sec. of Commerce Feb.-May 1967, Sec. of Commerce 1967-68; Pres. American Management Assn. 1968-70, Conf. Board Inc. 1970-76; Dir. Allied Chemical Corpn., then Vice-Chair. of Board 1976-; Dir. IBM Americas/Far East Corpn, Nat. Assn. of Mfrs., Mfg. Chemists Assn., New Jersey Chamber of Commerce, Inst. for Int. Educ., mem. Visiting Cttee. Harvard Graduate School of Business; Trustee Aspen Inst. *Leisure interests:* tennis, skiing. *Address:* 2 Colonial Road, White Plains, N.Y. 10605, U.S.A.

TROYANOVSKIY, Olyeg Aleksandrovich; Soviet diplomatist; b. 24 Nov. 1919, Moscow; ed. Moscow Foreign Languages Inst., Moscow Inst. of Philosophy, Literature and History; Diplomatic service 1944; took part in many important confs.; Amb. to Japan 1968-76; Perm. Rep. to UN Jan. 1977-. *Address:* Permanent Mission of the U.S.S.R. to the United Nations, 136 East 67th Street, New York, N.Y. 10021, U.S.A.

TROYAT, Henri (pseudonym of Tarasoff); French writer; b. 1 Nov. 1911, Moscow, U.S.S.R.; m. Marguerite Saintagne 1948; one s. one d.; ed. Lycée Pasteur, and Law Faculty, Univ. of Paris; mem. Acad. Française 1959-; Légion d'honneur. *Publications:* Faux-jour (Prix Populiste) 1935, L'araigne (Prix Goncourt) 1938, La neige en deuil (Grand prix littéraire de Monaco) 1952, Tant que la terre durera (three vols.) 1947-50, Les semailles et les moissons (five vols.) 1953-58, La lumière des justes (five vols.) 1960-, Les eygletière (three vols.) 1965-67, Les héritiers de l'avenir 1968, Anne Predaille 1973, Le Moscovite 1974, etc.; biographies: Dostoïevsky, Pouchkine, Tolstoi, Gogol, Catherine La Grande. *Address:* Académie Francaise, quai de Conti, 75006 Paris, France.

TRUDEAU, Rt. Hon. Pierre Elliott, P.C., M.P.; Canadian lawyer and politician; b. 18 Oct. 1919, Montreal, Quebec; s. of Charles-Emile Trudeau and Grace Elliott; m. Margaret Sinclair 1971; three s.; ed. Collège Jean-de-Brébeuf, Montreal, Univ. of Montreal, Harvard Univ., Univ. of Paris, and London School of Economics; called to Bar, Province of Quebec 1943, then studied at Harvard, Paris and London; subsequently employed with Cabinet Secr., Ottawa; later practised law, Province of Quebec; one of founders of Cité Libre (Quebec review); Assoc. Prof. of Law, Univ. of Montreal 1961; mem. House of Commons 1965-; Parl. Sec. to Prime Minister 1966-67; Minister of Justice and Attorney-Gen. 1967-68; Leader of Liberal Party April 1968-; Prime Minister of Canada 1968-79; Dr. h.c. (Duke Univ., Durham, N.C., U.S.A.) 1974; Freedom of City of London 1975. *Publications:* La grève de l'amiante 1956, Canadian Dualism/La dualité Canadienne 1960, Deux innocents en Chine rouge 1961, Federalism and the French Canadians 1968, Résponses 1968; and numerous articles in Canadian and foreign journals. *Address:* House of Commons, Ottawa, Ont., Canada.

TRUEHEART, William Clyde, B.S., M.A.; American diplomatist; b. 18 Dec. 1918, Chester, Va.; s. of William Cheatham Trueheart and Sallie Leftwich Shepherd; m. Phoebe Anna Everett 1948; two s.; ed. Phillips Exeter Acad. and Univ. of Virginia; Navy Dept. 1942; U.S. Army 1943-46; Atomic Energy Comm. 1947-49; Dept. of State 1949-54; Deputy Dir. Political Affairs, U.S. Del. to NATO, Paris 1954-58; Exec. Asst. to Sec.-Gen., Baghdad Pact Org., Ankara 1958-59; First Sec., London 1959-62; Counsellor, with rank of Minister, Saigon 1961-64; Dir. Office of S.E. Asian Affairs, Dept. of State 1964-66; Senior Foreign Policy Seminar, Dept. of State 1966-67; Deputy Dir. for Co-ordination, Bureau of Intelligence and Research, Dept. of State 1967-69; Amb. to Nigeria 1969-71; Adviser to Commdt., Maxwell Air Force Base 1971-73; Adviser to Office of Environmental Affairs, Dept. of State 1973-74; Consultant, U.S. Senate Select Cttee. on Intelligence 1975-76. *Address:* 5012 Hawthorne Place, N.W., Washington, D.C. 20016, U.S.A.

TRUFFAUT, François; French film director; b. 6 Feb. 1932, Paris; m. Madeleine Morgenstern (divorced); two d.; ed. secondary school; fmr. journalist; cinema critic, publisher of Cahiers du Cinéma and Arts 1954; Asst. to Roberto Rossellini (q.v.) 1956; Film Dir. 1957-; First Prize Cannes Festival for Les 400 Coups 1959; U.S. Nat. Soc. of Film Critics' Award for Outstanding Director of the Year for Baisers volés 1969; Prix Méliés for L'enfant sauvage 1970; Acad. Award for Best Foreign Film (La nuit américaine) 1974; many other prizes. *Films:* Les mistons (Medaille d'or, Mannheim) 1958, Les 400 coups 1959, Tirez sur le pianiste 1960, Jules et Jim (Prix de l'Acad. du cinéma and numerous other awards) 1959, L'amour à vingt ans 1962, La peau douce 1964, Fahrenheit 451 1966, La mariée était en noir 1967, Baisers volés 1968, La sirène du Mississippi 1969, L'enfant sauvage 1970, Domicile conjugal 1970, Les deux Anglaises et le Continent 1971, Une belle fille comme moi 1972, La nuit américaine 1973, L'histoire de Adèle H. 1975, L'argent de poche 1976, L'homme qui aimait les femmes 1977, La chambre verte 1978, L'amour en fuite 1979. *Publications:* Le cinéma selon Hitchcock (with Helen Scott) 1967, Les Aventures d'Antoine Doinel 1970, La nuit américaine 1974, Le journal de fahrenheit 451 1974, Les films de [redacted] vie 1975; L'argent de poche 1976, L'homme qui aimait les femmes 1977. *Address:* 5 rue Robert-Estienne, 75008 Paris, France. *Telephone:* 256-12-73/4.

TRUHAUT, René Charles, D. ès SC.; French toxicologist; b. 23 May 1909, Pouzauges (Vendée); s. of Jules Truhaut and Sidonie Lucas; ed. Lycée de La Roche-sur-Yon, Facultés de pharmacie et des sciences de Paris; Chief Pharmacist psychiatric hospitals (Seine) 1937-; Head of Lab., Inst. of Cancer 1930-41, Head of Chemical Research 1941-48; Head of Research Inst. Gustave Roussy 1949-; Prof. of Toxicology and Industrial Hygiene, Faculté de Pharmacie, Paris 1949-60, Titular Prof. 1960-; Head of teaching of industrial toxicology, Inst. of Industrial Medicine, Paris 1955-; Sec.-Gen. European Cttee. for the Study of the Protection of Populations against the long-term effects of Toxicity (EUROTOX); Adviser to numerous int. orgs. including WHO, FAO, ILO, Perm. Int. Comm. of Occupational Medicine, Int. Union Against Cancer, Council of Europe, EEC Int., Union of Pure and Applied Chemistry; mem. Conseil supérieur d'Hygiène publique de France and of numerous nat. comms. on public health; mem. Acad. des Sciences (Inst. de France), Acad. Nat. de Médecine. *Publications:* Les facteurs chimiques de cancérisations 1948, Les fluoroses 1948, Les dérivés organiques halogénés doués d'activité insecticide 1948, Toxicologie des produits phytopharmaceutiques 1952, Traitement d'urgence des intoxications 1957, Précis de toxicologie 1960, Compendio de toxicologia 1962, Potential Carcinogenic Hazards from Drugs 1967, Précis de médicine du travail 1975, 1978, Tratado de Toxicologia 1976. *Address:* Centre de recherches toxicologiques de la Faculté des Sciences Pharmaceutiques et Biologiques de l'Université René Descartes, 4 avenue de l'Observatoire, 75006 Paris, France. *Telephone:* 329-12-08, ext. 206.

TRUJILLO MOLINA, General Héctor Bienvenido; Dominican army officer and politician; b. 1908; ed. Univ. Autónoma de Santo Domingo; entered Army 1926; Chief of Staff of Army 1936; Supervisor-Gen. of National Police 1938-43; Secretary of War, C.-in-C. of Army and Navy 1944; succeeded his brother as Pres. of the Dominican Republic 1952-60; Prof. American Int. Acad., Washington; corresp. mem. Nat. Athenaeum Arts and Sciences, Mexico; holds numerous military and other decorations of his own and foreign countries. *Address:* Living abroad.

TRUONG CHINH (fmrly. known as Dang Xuan Khu); Vietnamese politician; Sec.-General, Communist Party of Indo-China, later of Lao Dong party 1941-56; Chair. Standing Cttee. of Nat. Assembly of Democratic Repub. of Viet-Nam 1960-76; Chair. Standing Cttee. of Nat. Assembly of Socialist Repub. of Viet-Nam July 1976-; mem. Nat. Defence Council; mem. Politbureau of Communist Party of Viet-Nam; Chair. Cttee. for drafting Constitution of Socialist Repub. of Viet-Nam 1975-76. *Address:* Quoc Hoi, Hanoi, Viet-Nam.

TRUONG NHU TANG; Vietnamese lawyer and politician; b. 1923, Cholon; ed. Univ. of Paris; Controller-General, Viet-Nam Bank for Industry and Commerce; Dir.-Gen. Viet-Nam Sugar Co., Saigon; Sec.-Gen. People's Movement for Self-Determination 1964-65; mem. Saigon Cttee. for Restoration of Peace; Pres. Viet-Nam Youth Union 1966-67; imprisoned 1967-68; joined Nat. Liberation Front 1968; Minister of Justice, Provisional Revolutionary Govt. of S. Viet-Nam 1969-76 (in Saigon 1975-76). *Address:* c/o Council of Ministers, Hanoi, Viet-Nam.

TRYOSHNIKOV, Aleksey Fedorovich, D.SC.; Soviet Polar explorer; b. 14 April 1914, Pavlovka village, Simbirsk (now Ulyanovsk) Region; ed. Leningrad Univ.; Head of the Soviet drifting station SP-3 in the Arctic 1954-55; Head Soviet Int. Geophysical Year Antarctic Expedition to Mirny 1956-58; Dir. Arctic and Antarctic Scientific Research Inst., Leningrad 1960-; mem. second and thirteenth Soviet Antarctic Expeditions of U.S.S.R. Acad. of Sciences 1956-58, 1967-68; Deputy Pres. U.S.S.R. Geographical Assn. 1964-77, Pres. 1977-; corresp. mem. U.S.S.R. Acad. of Sciences; mem. CPSU 1944-; Hero of Socialist Labour 1949; State Prize 1971, Order of Lenin (three), Order of October Revolution. *Publications:* The History of the Discovery and Study of the Antarctic 1963, The Structure of the Currents of the Antarctic Basin 1972. *Address:* 34 Fontanka, Leningrad 192104; Grivtsova 10, Leningrad, U.S.S.R.

TRYPANIS, Constantine Athanasius, D.PHIL., LITT.D.; Greek university professor; b. 22 Jan. 1909, Chios; s. of Athanasius G. Trypanis and Maria Zolota; m. Aliki Macris 1942; one d.; ed. Univs. of Athens, Berlin and Munich; Lecturer in Classical Literature Athens Univ. 1939; Bywater and Sotheby Prof. of Byzantine and Modern Greek, Univ. of Oxford 1947-68; Univ. Prof. of Classics, Univ. of Chicago 1968-74; Minister of Culture and Science 1974-77;

Emer. Fellow, Exeter Coll., Oxford; Fellow, Royal Soc. of Literature, Int. Inst. of Arts and Letters; Archon Hieromnemon of the Oecumenical Patriarchate, Megas Archon Hieromnemon 1972; Visiting Prof., U.S. univs. 1963, 1964, 1965, 1966; Visiting mem. Inst. for Advanced Study, Princeton 1959-60; Corresp. mem. of Inst. for Balkan Studies, Salonica, Center for Neo-Hellenic Studies, Austin, Texas, Acad. of Athens 1972; Hon. Fellow Int. Poetry Soc. 1976, British Acad. 1978, Soc. for Promotion of Hellenic Studies 1979. *Publications:* The Influence of Hesiod upon the Homeric Hymn to Hermes 1939, Alexandrian Poetry 1943, Tartessos, Phanagorea, Alexandria eschate 1945, Medieval and Modern Greek Poetry 1951, Pedasus 1955, The Stones of Troy 1957, Callimachus 1958, The Cocks of Hades 1958, Sancti Romani Melodi Cantica 1963, Pompeian Dog 1964, Fourteen Early Byzantine Cantica 1968, Sancti Romani Melodi Cantica II 1970, The Penguin Book of Greek Verse 1972, The Glass Adonis 1973, The Homeric Epics 1975. *Leisure interests:* tennis, painting, walking. *Address:* c/o Ministry of Culture and Science, Athens; 3 George Nikolaou, Kefisia, Athens, Greece. *Telephone:* 8081018.

TRZEBIATOWSKI, Włodzimierz, D.SC.; Polish chemist; b. 25 Feb. 1906, Grodzisk; s. of Dr. Casimir Trzebiatowski and Wanda Grossman; m. B. Jeżowska 1935; ed. Inst. of Technology, Lwów; Asst. Chemistry Dept., Inst. of Technology, Lwów 1929-37; Prof. of Inorganic Chemistry Univ. of Lwów 1938-45, Univ. and Inst. of Technology, Wrocław 1946-68; Dir. Inst. for Low Temperature and Structure of Polish Acad. of Sciences, Wrocław 1967-74, Chair. Scientific Council 1974-; Dir. Int. Laboratory of High Magnetic Fields and Low Temperatures, Wrocław 1968-; Vice-Pres. Polish Acad. of Sciences 1969-71, Pres. 1971-77, mem. Presidium; mem. Polish United Workers' Party, Cen. Cttee. 1971-; mem. Presidium of All-Polish Cttee. of Nat. Unity Front 1972-; Corresp. mem. Polish Acad. of Sciences 1952-56, mem. 1956-; mem. Chem. Soc., London, American Chem. Soc., Assen. F. et J. Joliot-Curie; foreign mem. Acad. of Sciences, Czechoslovakia 1973, G.D.R. 1974, Bulgaria 1974, Mongolia 1974, U.S.S.R. 1976; Dr. h.c. (Inst. of Technology, Wroclaw) 1976, (Warsaw Univ.) 1977, (Silesian Univ., Katowice) 1977, (Univ. of Wroclaw) 1979; State Prize in Chem. 1955, 1974; Commdr. Cross with star Polonia Restituta, Order of Banner of Labour 1st Class 1964, 1970; Gold Medal, Slovakian Acad. of Sciences 1973; Order of Builders of People's Poland 1974; Gold Medal, Polish Teachers' Assen. 1974; Medal of 30th Anniversary of People's Poland 1974; Order of Friendship of Nations (U.S.S.R.) 1976. *Publications:* The Structure of Metals 1953, X-Ray Structural Analysis (with K. Lukaszewicz) 1960, Inorganic Chemistry (14 edns., in Polish and German) 1960-68; over 120 papers on the structure and magnetic properties of rare metal compounds and alloys. *Address:* ul. Gierymskich 20, 51-636 Wrocław, Poland. *Telephone:* 4836-99.

TSARAPKIN, Semyon Konstantinovich; Soviet diplomatist; b. 4 June 1906, Nikolayev, Ukraine; ed. Moscow Oriental Inst.; worker in smelting plant; transferred for advanced political training; Deputy Head, Head, Second Eastern Dept., later Far Eastern Dept., Ministry of Foreign Affairs 1937-44; Head, U.S.A. Dept. 1944-47; Minister, Soviet Embassy, Washington 1947-49; Deputy Perm. Rep. to UN Security Council 1949-54; Head of Div. for Int. Orgs., Moscow 1954-66; Head Soviet del. to Geneva Disarmament Talks 1961-66; Amb. to Fed. Repub. of Germany 1966-71; Amb. at large 1971-; Orders of Red Banner of Labour, Badge of Honour, Great Patriotic War (1st Class), etc. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya ploshchad, Moscow, U.S.S.R.

TSATSOS, Konstantinos; Greek philosopher, lawyer and politician; b. 1 July 1899; s. of Demetrius Tsatsos and Theodora Eustratiadi; m. Jeanne Seferiades 1930; two d.; ed. School of Law, Athens Univ. and Univ. of Heidelberg; practised law 1921; Assoc. Prof. of Law, Athens Univ. 1930-32, Prof. of Law 1932; Minister of the Interior and of Press and Air 1945; mem. Parl. for Athens 1946-50, 1963-67; Minister of Educ. 1949; Under-Sec. of State for Econ. Co-ordination 1950-51; Minister in office of Prime Minister 1956-61; Minister of Social Services 1962-63, of Justice 3-21 April 1967; Minister of Cultural Affairs and Science July-Oct. 1974; Pres. of Greece June 1975-; fmr. Pres. Acad. of Athens, mem. 1961-. *Publications:* Der Begriff des Positiven Rechts 1928; in Greek: The Problem of the Interpretation of Law 1932, The Problem of the Sources of the Law 1941, Introduction to the Knowledge of the Law, Essays in the Philosophy of the Law, Kant's Theory of Knowledge, The Ethical Philosophy of Kant, The Social Philosophy of the Ancient Greeks 1938, Greece on the March 1953, Politics, At the Roots of American Democracy 1955, Kostis Palamas 1935, Essays on Aesthetics and Education (2 vols.), Aphorisms and Dialogues (4 vols.), Complete Poems 1973, Dialogues in ■ Monastery, Greece and Europe (also in English, French, German and Spanish) 1977, Studies in Aesthetics (2 vols.); many annotated translations of Demosthenes and Cicero 1965-72; many other critical studies and essays on political, sociological, philosophical and literary subjects. *Address:* Office of the President, Athens, Greece.

TSCHUDI, Hans-Peter, LL.D.; Swiss politician; b. 22 Oct. 1913; ed. Basle Univ.; Prof. of Labour Law, Basle Univ. 1952-59; Head of Home Dept. Govt. of Basle 1953-59; mem. Council of States, Fed. Assembly 1956-59; mem. Fed. Council 1960-73, Vice-Pres. Jan.-Dec. 1964, Jan.-Dec. 1969, Pres. Jan.-Dec. 1965, Jan.-Dec. 1970; Head of Dept. of the Interior 1960-73; mem. Assembly, Int. Red Cross; Socialist. *Publications:* Die Ferien im schweizerischen Arbeitsrecht 1948, Koalitionsfreiheit und Koalitionszwang 1948, Die Sicherung des Arbeitsfriedens durch das schweizerische Recht 1952, Gesamtarbeitsvertrag und Aussenseiter 1953. *Address:* c/o Comité International de la Croix-Rouge, avenue de la Paix 17, 1211 Geneva, Switzerland.

TSEDENBAL, Yumjaagiyn; Mongolian politician; b. 17 Sept. 1916; ed. Inst. of Finance and Econs. in U.S.S.R.; Teacher at Ulan Bator Financial Coll.; Deputy Minister, then Minister of Finance 1939-40; Deputy C.-in-C. Mongolian People's Army, Dir. of Political Directorate 1941-45; Chair. State Planning Comm. 1945-48; Deputy Chair. Council of Ministers 1948-52, Chair. 1952-74; Deputy to People's Great Hural (Assembly) 1940-, Chair. of Presidium of People's Great Hural (Head of State) June 1974-; mem. Cen. Cttee. of Mongolian People's Revolutionary Party (MPRP) 1940-, mem. Presidium and Gen. Sec. of Cen. Cttee. 1940-54, First Sec. of Cen. Cttee. 1958-; Army Gen.; Hon. mem. Acad. of Sciences; Order of Sühbaatar, Hero of the Mongolian People's Repub., Order of Lenin. *Address:* Government Palace, Ulan Bator, Mongolia.

TSELIKOV, Aleksandr Ivanovich; Soviet metallurgist; b. 20 April 1904, Moscow; ed. Bauman Higher Technical School, Moscow; Designer, Engineer, metallurgical plants 1925-35; Lecturer, Higher Schools 1935-45; Research Work, U.S.S.R. Research and Designing Inst. for Metallurgical Eng. 1945-, Dir. 1959-; mem. CPSU 1945-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-64, mem. 1964-; State Prize (thrice), Lenin Prize (twice), Hero of Socialist Labour 1964, Lomonosov Gold Medal 1974, Order of October Revolution and other decorations. *Publications:* Basic works on designing and developing of new metallurgical and foundry equipment. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

TSENG MEI; Chinese party official; Mil. sub-district Commdr. 1943; Chief of Staff, Peking-Tientsin Garrison HQ 1954; Political Commissar Hopei Mil. District, PLA 1966; Vice-Chair. Hopei Revolutionary Cttee., PLA 1968-. *Address:* People's Republic of China.

TSENG SHAO-SHAN; Chinese party official; b. 1910, Hunan; on Long March 1934-35; Regimental Commdr. 1938; Brigade Commdr. 1941; Deputy Commdr. E. Szechuan Mil. District, People's Liberation Army 1950-52; Lieut.-Gen. PLA 1957; Commdr. Tsinan Mil. Region, PLA 1957; Political Commissar Shenyang Mil. Region, PLA 1960; mem. 9th Cen. Cttee. of CCP 1969; Second Sec. CCP Liaoning 1971, First Sec. 1975-78; Vice-Chair. Liaoning Revolutionary Cttee. 1973, Chair. 1975-78; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

TSENG SHENG; Chinese politician; Minister of Communications 1979-. *Address:* People's Republic of China.

TSENG SSU-YU; Chinese army officer; b. 1907; Staff Officer Red 1st Front Army 1935; Commdr., 4th Column, N. China PLA 1948; Lieut.-Gen. Shenyang Mil. Region, PLA 1960, Deputy Commdr. 1965-67; Commdr. Wuhan Mil. Region, PLA 1967-73; mem. 9th Cen. Cttee. of CCP 1969; First Sec. CCP Hupeh 1971-73; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; Commdr. Tsinan Mil. Region, PLA 1974-. *Address:* People's Republic of China.

TSEVEGMID, Dondogiyn; Mongolian biologist and politician; b. 26 March 1915; ed. Teacher Training School, Ulan Bator, and Moscow Univ.; Teacher 1930-45; Rector, Mongolian State Univ., Chair. Cttee. of Sciences 1959-60; Deputy Minister of Foreign Affairs 1960-62; Amb. to China 1962-67; Rector, Mongolian State Univ. 1967-72; Deputy to People's Great Hural (Assembly), Chair. 1969-72; Deputy Chair. Council of Ministers 1972-; Chair. Exec. Cttee. of Parl. Group; Chair. Atomic Energy Comm.; Chair. Cttee. for Higher and Special Secondary, Technical-Vocational Educ. 1973-; cand. mem. Mongolian People's Revolutionary Party Cen. Cttee. 1958-66, mem. Cen. Cttee. 1966-; corresp. mem. Acad. of Sciences; Dr. h.c. (Lomonosov Inst., Moscow, Humboldt Univ., Berlin). *Publications:* The Ecological and Morphological Analysis

of the Duplicidentate 1950, Fauna of the Transaltai 1963, Selected Works 1946, 1956, 1974. *Address:* Government Palace, Ulan Bator, Mongolia.

TSITSIN, Nikolay Vasiliyevich; Soviet botanist and geneticist; b. 18 Dec. 1898, Moscow; ed. State Agricultural Inst., Saratov; worked on selection and genetics of spring and winter wheat, Scientific-Research Inst. of Drought, Saratov 1927-32, Head, Selection Dept. 1932; later Dir. Scientific Research Inst. of Grain Econ., Omsk; Dir. All-Union Agricultural Exhibition, Moscow 1937-57; mem. and fmr. Vice-Pres. Lenin All Union Acad. of Agricultural Science 1938-; mem. CPSU 1938-; mem. U.S.S.R. Acad. of Sciences 1939-77, Hon. mem. 1977-; mem. Yugoslav Acad. of Science and Arts; Dir. Cen. Botanical Garden, U.S.S.R. Acad. of Sciences 1945-; Dr. h.c. (Jena Univ.); Hon. mem. Romanian Acad. of Sciences; Corresp. mem. German Acad. of Agricultural Sciences; Chair. U.S.S.R.-India Friendship Soc.; State Prize 1943, Hero of Socialist Labour 1968, Order of Lenin, Lenin Prize (five times), Order of October Revolution and other decorations. *Publications:* Problem of Winter and Perennial Wheats 1935, Advancement of Winter Crops to East 1940, Pyrethrum 1941, Transformation of Cultivated Plants 1943, Investigations in the Field of Vegative-Reproductive Hybridization 1946, Problem of Grains: Leading Link in Agriculture 1946, Remote Hybridization of Plants 1953, Darwin and Problems of Modern Biology 1957, Activated Creoline 1957, Representatives of the New Species of Wheat, Triticum Agropyrotriticum Perenne (Cicin) 1958, New Species and Varieties of Wheat Obtained Experimentally 1959, New Varieties of Branchy Wheats 1960, Remote Hybridization and the Origination of New Species 1960, New Varieties of Winter Rye 1961, Hybrids Triticum × Elymus (gig. and arenarius) 1961, Wheat-elymus Amphidiploids 1963, Hybridization of Rye with Couch-Grass 1963, Hybridization of plants 1965, Results of breeding new forms of perennial wheat 1970, Remote Hybridization as a Factor of Evolution and Important Method of Origination of New Species, Forms and Sorts of Plants and Animals 1970, Ways of Breeding New Species and Forms of Plants 1975. *Address:* Central Botanical Garden of U.S.S.R., Academy of Sciences, Botanicheskaya ulitsa 4, Moscow U-276, U.S.S.R.

TSOLOV, Tano; Bulgarian politician; b. 27 June 1918; ed. High Commercial School, Commercial Acad. and Higher School for Finance and Admin.; Young Communist League 1934-40; mem. Communist Party 1940-; student, political prisoner and partisan, Young Communist League and Party functionary 1940-44; First Sec. of the Regional Cttee. of the CP and Chair. Regional Cttee. of the Fatherland Front, Byala Slatina 1944-50; Industry, Building and Transport Dept., Cen. Cttee. of the CP 1950-52; mem. Cen. Cttee. of the CP 1957; Minister Heavy Industry 1952-59; Chair. Cttee. for Industry and Technical Progress 1959; Sec. Cen. Cttee. of the CP 1959-62; Cand. mem. of Political Bureau 1962; mem. of Political Bureau 1966; Deputy Chair. Council of Ministers 1962-71; Chair. Council for Industry and Construction at Council of Ministers 1962-66; Chair. State Planning Cttee. 1968-71; Permanent Rep. of the People's Republic of Bulgaria in the Council for Mutual Econ. Assistance (SIV) 1966-74, Chair. Exec. Cttee. 1973-74; Chair. Comm. for Econ., Scientific and Technical Co-operation at Council of Ministers 1966; First Deputy Chair. Council of Ministers 1971-. *Address:* Council of Ministers, Sofia, Bulgaria.

TSUI TIEN-MIN; Chinese party official; CCP activist in Shensi province in late 1920s; Deputy Political Commissar, PLA Railway Corps 1950, Political Commissar 1973-; mem. Nat. Defence Council 1965. *Address:* People's Republic of China.

TSUR, Yaakov; Israeli diplomatist; b. 18 Oct. 1906, Vilno; s. of Samuel and Bella Tsur; m. Vera Gotlib 1928; one s. one d.; ed. Hebrew Coll., Jerusalem, Univ. of Florence and Sorbonne; mem. staff daily newspaper Haaretz, Tel-Aviv 1929; Dir. French Dept. and later Co-Dir. Propaganda Dept. Jewish Nat. Fund, Jerusalem 1930; special Zionist missions, Belgium, Greece, France 1934-35, Bulgaria and Greece 1940; Liaison officer with G.H.Q. British Troops in Egypt 1943-45; Head del. to Greece 1945; Pres. Israeli Army Recruiting Cttee. Jerusalem 1948; Minister to Argentina 1949-53, Uruguay 1949-53, Chile 1950-53, and Paraguay 1950-53, Amb. to France 1953-59; Chair. Jewish Nat. Fund 1960-76; Chair. Zionist Gen. Council 1961-68; Pres. Central Inst. for Relations with Ibero-America, Bialik Inst. Publication Soc.; Grand Officier Légion d'honneur. *Publications:* Juifs en guerre 1947, The Birth of Israel 1949, Shacharit Shel Etmol (Autobiography) 1965, Ambassador's Diary 1967, La révolte juive 1970, Portrait of the Diaspora 1975, The Saga of Zionism 1976. *Address:* Mevó Yoram 5, Jerusalem, Israel. *Telephone:* 33811.

TUAN CHUN-YI; Chinese politician; b. Shantung; ed. School of Tech., Tsinan Univ.; Responsible person, Nat. Fed. of Students, and rep., Peiping Fed. of Students 1937; Sec. CCP Hupei-Honan Region Cttee., before 1949; mem., S.W. Mil. and Admin. Cttee. 1950; Dir., Industry Dept. S.W. Mil. and Admin. Cttee. 1950; Vice-Chair. Financial and Econ. Cttee., S.W. Mil. and Admin. Cttee. 1950-54; Vice-Minister Ministry of Machine Building 1952-60; Deputy for Shantung to INPC 1954; mem. Nat. Cttee., All China First Machine Building Trades Union 1955; Minister First Ministry of Machine Building 1960; CCP del. to Nat. Cttee., 4th CPPCC 1964; mem. Pres. CCP 11th Nat. Congress 1977-; mem. CCP 11th Cen. Cttee. 1977-; Minister of Railways 1978; First Sec. Honan Prov. CCP Cttee. 1978-; Chair. Honan CCP Prov. Revolutionary Cttee. 1978-; First Political Commissar PLA Honan Mil. Dist. 1978-. *Address:* People's Republic of China.

TUBBY, Roger W.; American diplomatist (retd.); b. 30 Dec. 1910, Greenwich, Conn.; s. of George Prentiss Tubby and Frances Kidder; m. Anne Walton Williams 1936; one s. three d.; ed. Choate School, Yale Univ., and London School of Economics; Newspaperman 1938-42, Board of Econ. Warfare 1942-44; Asst. to Administrator, Foreign Economic Admin. 1944-45; Dir. Information Office Int. Trade, Dept. of Commerce 1945-46, Press Officer, Dept. of State 1945-50; Asst. Press Sec. The White House 1950-52, Acting Press Sec. Oct.-Dec. 1952, Press Sec. Dec. 1952; Personal Asst. Democratic Pres. Candidate 1956; Editor and Publisher, Adirondack Daily Enterprise, Saranac Lake 1953-61; Dir. Public Relations, Democratic Nat. Cttee. 1960; Asst. Sec. for Public Affairs, Dept. of State 1961-62; Amb. and Perm. Rep. to UN, etc., Geneva 1962-69; Dean, Foreign Service Inst., Dept. of State 1969-72; Dir. Devt. Paul Smith's Coll., N.Y. 1972-75; Deputy Commr., Operations and Planning, N.Y. State Parks and Recreation Dept. 1975-77; Governor's Rep. to 1980 Winter Olympics, Lake Placid; Exec. Dir. N. Country Econ. Council; Chair. Olympic Accommodations Control Corpn.; Trustee, Trudeau Foundation, Coll. of the Atlantic; mem. Acad. of Political Sciences; Cand. U.S. Congress 1974; Democrat. *Address:* Olympic Committee, Box 1980, Lake Placid, N.Y. 12946; Trudeau Road, Saranac Lake, N.Y. 12983, U.S.A. (Home).

TUCCI, Giuseppe, PH.D.; Italian orientalist; b. 5 June 1894, Macerata; ed. Rome Univ.; Lieut. 1915-19; leader scientific expeditions to Tibet and Nepal; Prof. of Religions and Philosophy of India and the Far East, Rome Univ. 1933-65; mem. Royal Italian Acad.; Hon. mem. Soc. Asiatique (Paris), Asiatic Soc. (Calcutta); leader Italian archaeological missions in Pakistan, Afghanistan and Iran 1956-; mem. Middle and Far East Inst. (ISMEO), Rome; Hon. Prof., Kolosvar, Delhi, Louvain, Teheran, Visva-Bharati, Tribhuvan (Kathmandu) Univs.; Jahawarlal Nehru Award for Int. Understanding. *Publications:* Storia della filosofia cinese antica 1922, Il Buddhismo 1926, Doctrines of Maitreyanatha, Secrets of Tibet, Predinnaga Buddhist Logic, Indo-Tibetica (7 vols.), Tibetan Painted Scrolls 1949, Asia Religiosa 1946, Tibetan Folksongs 1949, The Tombs of the Tibetan Kings 1950, To Lhasa and Beyond 1950, Tra Giungle e Pagode 1954, Preliminary Report of two Scientific Expeditions in Nepal 1956, Minor Buddhist Texts, Part I 1956, Part II 1958, Part III 1971, Storia della Filosofia Indiana 1958, Nepal 1960, Theory and Practice of the Mandala 1961, Il Trono di Diamante 1967, Tibet, Land of Snows 1968, Rati-tita 1969, Die Religionen Tibets 1970, Opera Minora 1971, Archaeologid Mundi: Tibet 1973, Le Religioni dei Tibet 1976. *Address:* Via della Crocetta 8, s. Polo dei Cavalieri, Rome, Italy.

TUCHKEVICH, Vladimir Maksimovich, D.SC.; Soviet physicist; b. 29 Dec. 1904, Yanoutsi, Chernovitsk Region; ed. Kiev State Univ.; Head of Laboratory, All-Ukrainian Radiological Inst. 1931-35; Head of Lab., Leningrad Radiological Inst. 1935-36, A. F. Ioffe physical-technological Inst., U.S.S.R. Acad. of Sciences 1936-, Dir. 1968-; mem. CPSU 1952-, Presidium 1971-; corresp. mem. U.S.S.R. Acad. of Sciences 1968-70, mem. 1970-; Honoured Scientist of R.S.F.S.R. 1966; Lenin Prize 1966; U.S.S.R. State Prize 1942, Order of Lenin (twice), Order of the Red Banner and other decorations. *Address:* A. F. Ioffe Physical-Technological Institute, U.S.S.R. Academy of Sciences, Politekhnicheskaya ulitsa 2, Leningrad, U.S.S.R.

TUCHMAN, Barbara W., B.A.; American writer; b. 30 Jan. 1912; ed. Radcliffe Coll., Cambridge, Mass.; Research Asst., Inst. of Pacific Relations, New York City 1934, Tokyo 1935; Editorial Asst. The Nation, New York City 1936, Spain 1937; Staff writer War in Spain, London 1937-38; American Corresp. New Statesman, London 1939; with Far East News Desk, Office of War Information, New York City 1934-45; Trustee, Radcliffe Coll. 1960-72; mem. Nat. Portrait Gallery Comm. 1971-, Smithsonian Council 1971-; mem. Nat. Inst. of Arts and Letters, Authors' Guild, Authors' League; Fellow, American Acad. of Arts and Letters; fmr. Pres. Soc. of American Historians; Pulitzer Prize 1963, 1972; numerous hon. degrees. *Publications:* The Lost British Policy 1938, Bible and

Sword 1956, The Zimmermann Telegram 1958, The Guns of August 1962, The Proud Tower 1966, Stilwell and the American Experience in China 1911-45 1971, Notes from China 1972, A Distant Mirror: The Calamitous 14th Century 1978; contributions to major magazines. *Address:* c/o Russell & Volkening, 551 Fifth Avenue, New York, N.Y. 10017, U.S.A.

TUCK, James Leslie, M.SC., M.A., O.B.E.; British-born American physicist; b. 9 Jan. 1910, Manchester, England; s. of James H. Tuck and Selina Jane Reece; m. Elsie Mary Harper 1937; one s. one d.; ed. Manchester Central Grammar School, Manchester and Oxford Univs.; Dalton Scholar and Demonstrator, Manchester Univ. 1932-37; Salter Research Fellow, Oxford Univ. 1937-39; Adviser to Lord Cherwell on Prime Minister's Staff 1939-42; Principal Scientific Adviser, Ministry of Defence 1942-44; Principal Scientific Officer, British Mission to Manhattan Project (Atom Bomb), Los Alamos, New Mexico 1944-46; Supervisor, Dept. of Advanced Studies, Clarendon Laboratory, Oxford 1946-49; Research Assoc., Chicago Univ. Inst. for Nuclear Studies 1949-50; Assoc. Division Leader, Physics Div., Los Alamos Scientific Laboratory, Univ. of California 1950-72, Dir. of Controlled Fusion Research 1952-73, Consultant 1973-; Walker-Ames Distinguished Prof., Univ. of Washington 1974-, Visiting Prof., Univ. of Waikato, N.Z. 1974; Regents Lecturer, Univ. of Calif., San Diego April 1975; Fellow, American Physical Soc.; Guggenheim Fellow; Fellow, American Assn. Advancement of Science. *Publications:* Numerous papers on Accelerators, Physics of Explosives (Munroe Effect), Nuclear Cross Sections and Thermonuclear Research. *Leisure interests:* skiing, chess, tennis. *Address:* 2502 35th Street, Los Alamos, New Mexico 87544, U.S.A. *Telephone:* (505) 662-6323.

TUCKER, Sir Henry James, K.B.E.; Bermudan politician; b. 1903, Bermuda; m. Catherine Newbold Barstow 1925; two s. one d.; ed. Saltus Grammar School, Bermuda and Sherborne School, U.K.; worked in New York with various stock exchange houses and a bank 1924-34; joined Bank of Bermuda 1934, Gen. Man. 1938-70; mem. House of Assembly 1938-48, 1953-; mem. Exec. Council 1942-48; formed United Bermuda Party 1964, Leader 1964-71; Leader, Exec. Council 1968-71. *Leisure interests:* golf, philately. *Address:* The Lagoon, Paget, Bermuda.

TUDOR, James Cameron, M.A.; Barbadian politician and diplomatist; b. 18 Oct. 1919, St. Michael; ed. Keble Coll., Oxford; Pres. Oxford Union 1942; Broadcaster, BBC 1942-44; Lecturer, Reading Univ. 1944-45; taught History at Combermere School, Barbados 1946-48, Civics and History at Queens Coll., British Guiana 1948-51; Sixth Form Master, Modern High School, Barbados 1952-61; freelance journalist, lecturer and broadcaster 1952-61; mem. Legislature 1954-72; Gen. Sec. Democratic Labour Party 1955-63, Third Vice-Chair. 1964-66; Minister of Educ. 1961-67; Minister of State for Caribbean and Latin American Affairs 1967-71; Leader of House of Reps. 1965-71; Minister of External Affairs 1971-72; Leader of Senate 1971-72; High Commr. in U.K. 1972-76; Perm. Rep. to UN 1976-; mem. Council, Univ. of the West Indies 1962-65. *Address:* Permanent Mission of Barbados to the United Nations, 866 United Nations Plaza, Suite 527, New York, N.Y. 10017, U.S.A; Lemon Grove, Westbury New Road, St. Michael, Barbados (Home).

TUENI, Ghassan, M.A.; Lebanese newspaper editor; b. 5 Jan. 1926; m. Nadia Hamadeh; two s.; ed. American Univ. of Beirut and Harvard Univ.; Lecturer in Political Science, American Univ. of Beirut 1947-48; Editor-in-Chief, An-Nahar (daily newspaper) 1948-; Man.-Dir. of An-Nahar Publishing Co. 1963-; Co-founder of Lebanese Acad. of Law and Political Science 1951, Lecturer 1951-54; M.P. for Beirut 1953-57; mem. Lebanese del. to UN Gen. Ass. 1957; founded Middle East Business Services and Research Corpn. 1958, Chair. 1958-70; founder, Chair. and Man.-Dir. of Press Cooperative, S.A.L. 1960-; Deputy Prime Minister and Minister of Information and Nat. Educ. 1970-71; arrested Dec. 1973, appeared before mil. tribunal and then released in accordance with press laws; Minister for Social Affairs and Labour, Tourism, Industry and Oil 1975-76; Perm. Rep. to UN 1977-; mem. Nat. Dialogue Cttee. 1975. *Address:* Permanent Mission of Lebanon to the UN, 866 United Nations Plaza, Room 533-535, New York, N.Y. 10017, U.S.A.

TUGENDHAT, Christopher Samuel, M.A.; British international official and politician; b. 23 Feb. 1937, London; s. of late Dr. Georg Tugendhat; m. Julia Lissant Dobson 1967; two s.; ed. Ampleforth Coll., Gonville and Caius Coll., Cambridge; Pres. Cambridge Union; Mil. Service, Commissioned in The Essex Regt. 1955-57; Leader and Feature Writer, The Financial Times 1960-70; Consultant to Wood Mackenzie & Co. Ltd., stockbrokers 1968-77; Conservative M.P. for Cities of London and Westminster 1970-74, for City of London and Westminster South 1974-77; Dir. Sunningdale Oils 1971-77, Phillips Petroleum Int. (U.K.) Ltd. 1972-77; mem. Comm. of EEC with responsibility for Budget and Financial Control, Financial Inst., Personnel and Admin. Jan. 1977-; McKinsey Foundation Book Award 1971. *Publications:* Oil: the Biggest Business 1968, The Multinationals 1971. *Leisure interests:* reading, following football, conversation. *Address:* 15 rue Buchholtz, 1050 Brussels, Belgium. *Telephone:* 649.78.67.

TUGWELL, Rexford Guy, PH.D., LITT.D., LL.D.; American political scientist; b. 10 July 1891; ed. Univ. of Pennsylvania; Instructor and Asst. Prof. of Economics, Columbia Univ. 1920-31, Prof. 1931-37; Asst. Sec. Dept. of Agriculture 1933, Under-Sec. and Admin. Resettlement Admin. 1934-37; Chair. New York City Planning Comm. 1938-41: Chancellor Univ. of Puerto Rico 1941-42; Gov. of Puerto Rico 1941-46; Dir. Inst. of Planning, Univ. of Chicago 1946-52, Prof. of Political Science 1946-57, Prof. Emeritus 1957-; Development Consultant, Univ. of Puerto Rico 1961-64; Consultant, Center for the Study of Democratic Institutions 1964-65, Sr. Fellow in Political Science 1966-; Research Prof. Political Science, Univ. of S. Illinois, Carbondale 1965-66; Visiting Prof. London School of Econs. 1949-50; Woodrow Wilson Award, American Political Science Assn. *Publications:* The Economic Basis of Public Interest 1922, American Economic Life 1925, Industry's Coming of Age 1927, The Industrial Discipline 1933, The Battle for Democracy 1935, Redirecting Education 1935, The Fourth Power 1939, Changing the Colonial Climate 1942, The Stricken Land 1946, The Place of Planning in Society, with Special Reference to Puerto Rico 1954, A Chronicle of Jeopardy 1955, Great Cities of the World (co-author) 1955, The Democratic Roosevelt (Woodrow Wilson Award) 1957, The Art of Politics 1958, Early American Contributors (co-author) 1960, The Englargement of the Presidency 1960, The Light of Other Days 1962, How They Became President: Thirty-five ways to the White House 1965, F.D.R.; Architect of an Era 1967, Grover Cleveland, A Biography 1968, The Brains Trust (Bancroft Award) 1968, Off Course 1970, In Search of Rossevelt 1972, The Emerging Constitution 1975, Tugwell's Thoughts on Planning 1975, The Compromising of the Constitution 1976, Roosevelt's Revolution 1976; ed. The Presidency Reappraised 1974. *Address:* Box 4068, Santa Barbara, Calif. 92705, U.S.A.

TU'IPELAHAKE, H.R.H. Prince Fatafehi, K.B.E.; Tongan politician; b. 7 Jan. 1922; second son of the late Queen Salote Tupou III and the late Hon. Uiliami Tungi, C.B.E.; Premier of Tonga; brother of King Taufa'ahau Tupou IV (*q.v.*); married H.R.H. Princess Melenaite 1947; six children; ed. Newington Coll., Sydney, N.S.W., and Gatton Agricultural Coll., Queensland; Gov. of Vava'u 1952-65; Prime Minister of Tonga 1965-, also Minister for Foreign Affairs, Agric., Tourism, Marine Affairs, and Telegraphs and Telephones; Chair. Tonga Copra Board and Tonga Produce Board. *Address:* Office of the Prime Minister, Nuku'alofa, Tonga.

TUITA, Siosaia Aleamotu'a Laufilitonga, C.B.E.; Tongan civil servant and government official; b. 29 Aug. 1920, Lapaha, Tongatapu; ed. Tupou Coll., Wesley Coll., Auckland, New Zealand; Lieut. Officer, Tonga Defence Service 1942-43; Court Interpreter and Registrar, Supreme Court 1950; Asst. Sec. Prime Minister's Office 1954; Registrar of Supreme Court 1954; Acting Gov. of Vava'u 1956, Gov. 1957; Acting Minister of Lands 1962, of Police 1964-65; Chair. Niuafo'ou evacuation 1965; Minister of Lands and Survey and Minister of Health 1965; assumed title of Tuita 1972; Deputy Prime Minister 1972-. *Address:* Office of the Deputy Prime Minister, Nuku'alofa, Tonga.

TUKE, Sir Anthony Favill, Kt.; British banker; b. 22 Aug. 1920, Berkhamsted, Herts.; s. of late Anthony William Tuke and Agnes Edna Tuke (née Gannaway); m. Emilia Mila Antic 1946; one s. one d.; ed. Winchester Coll., Magdalene Coll., Cambridge; Scots Guards 1940-46; joined Barclays Bank Ltd. 1946; various appts. in Barclays Bank Ltd. including Chair. Birmingham Board 1964-68; Vice-Chair. Barclays Bank Int. Ltd. (fmrl. Barclays Bank D.C.O.) 1968-72, Chair. 1972-,79; Vice-Chair. Barclays Bank Ltd. 1972-73, Chair. Oct. 1973-; Dir. Merchants Trust Ltd., Royal Insurance Co. 1978-; mem. Board various subsidiary cos. in Barclays Group; Deputy Chair. Cttee. of London Clearing Bankers 1974-76, Chair. 1976-78; mem. CBI (Pres.'s) Cttee. 1976-78; Vice-Pres. Inst. of Bankers 1973-. *Leisure interests:* lawn tennis, gardening. *Address:* Barclays Bank Ltd., 54 Lombard Street, London, EC3P 3AH, England. *Telephone:* 01-626-1567.

TUKEY, John W(ilder), PH.D., SC.D.; American statistician; b. 16 June 1915, New Bedford, Mass.; s. of Ralph H. Tukey and Adah M. Tasker; m. Elizabeth Louise Rapp 1950; ed. Brown Univ. and Princeton Univ.; Fine Instructor, Mathematics, Princeton Univ. 1939-41, Asst. Prof. 1941-48, Assoc. Prof. 1948-50, Prof. 1950-66,

Prof. of Statistics 1965-, Donner Chair of Science 1976-; mem. Tech. Staff, Bell Telephone Labs. 1945-58, Asst. Dir. of Research 1958-61, Assoc. Exec. Dir. Research 1961-; mem. President's Science Advisory Cttee. 1960-63, Nat. Advisory Cttee. for Oceans and Atmosphere 1975-; mem. Nat. Acad. of Sciences 1967, American Acad. of Arts and Sciences, American Philosophical Soc.; Hon. mem. Royal Statistical Soc.; Guggenheim Fellow 1949-50; Fellow, Inst. of Mathematical Statistics (Pres. 60), American Statistical Assn. (Vice-Pres. 1955-57), American Soc. of Quality Control, American Assn. for the Advancement of Science (Chair. 1972, 1974); Samuel Wilks Medal, American Statistical Assn. 1965; Nat. Medal of Science 1973; Hon. Sc.D. (Brown Univ., Yale Univ., Case Inst. of Technology, Univ. of Chicago). *Publications:* Convergence and Uniformity in Topology, Statistical Problems of the Kinsey Report (with W. G. Cochran and F. Mosteller), The Measurement of Power Spectra from the Point of View of Communications Engineering (with R. B. Blackman) 1959, Exploratory Data Analysis, Vols. I-III 1970-71, Robust Estimates of Location: Survey and Advances (with others) 1972, The Statistics Cum. Index, Vol. 1 (with J. L. Dolby) 1973, Index to Statistics and Probability, Vols. II-V (with others) 1973-75; more than 150 technical papers. *Leisure interest:* table tennis. *Address:* 1A-219 Bell Telephone Laboratories, Murray Hill, N.J. 07974 (Office); 115 Arreton Road, Princeton, N.J. 08540; Summer: P.O. Box 304, Westport Point, Mass. 02791, U.S.A. (Home). *Telephone:* 201-582-4507 (Bell Telephone); 609-924-5095 (Home); 617-636-2612 (Summer).

TUNG KUO-KUEI; Chinese army official; Commdr. Hunan Mil. District, PLA. *Address:* People's Republic of China.

TUNG TEH-TZU; Chinese government official; Commdr. Fukien Mil. District, PLA 1978-; mem. Standing Cttee. Fukien CCP Cttee. 1978-. *Address:* People's Republic of China.

TUNNEY, John V., B.A., LL.B.; American politician; b. 26 June 1934, New York City: s. of Gene Tunney and Mary Lauder Tunney; m. 2nd Kathinka Osborne 1977; two s. one d.; ed. Westminster School, Simsbury, Conn., Yale Univ., Univ. of Virginia School of Law and Acad. of Int. Law, The Hague; practised law, New York City 1959-60; Judge Advocate, U.S. Air Force 1960-63; taught Business Law at Univ. of Calif., Riverside; mem. U.S. House of Representatives 1964-70; Senator from California 1971-77; Democrat. *Leisure interests:* tennis, sailing, skiing, handball. *Address:* Manatt, Phelps, Rothenberg, Manley and Tunney, 1888 Century Park East, Los Angeles, Calif. 90067, U.S.A.

TUOMINEN, Leo Olavi, M.A.; Finnish diplomatist; b. 19 Jan. 1911, Turku; s. of Johan Tuominen and Johanna Johannsson; m. Helene Habert 1938; one s. three d.; ed. Univ. of Turku; joined Foreign Service 1934; served Paris 1934-38, Riga 1938-39, and Warsaw 1939, Ministry of Foreign Affairs 1940; Sec. of Section, Ministry of Foreign Affairs 1941-43, Chief of Section 1943-46; served Antwerp 1946-47; First Sec. Legation, Brussels 1947-48; Asst. Dir. of Commercial Division, Ministry of Foreign Affairs 1948-50; Permanent Del. to Int. Organisations, Geneva 1950-52; Minister to Argentina, Chile and Uruguay 1952-55; Dir. Commercial Division, Ministry of Foreign Affairs 1955-56; Sec. of State, Ministry of Foreign Affairs 1956-57; Amb. to U.K. 1957-68, to Italy, Cyprus and Malta 1968-69, to Sweden 1969-72, to U.S.A. 1972-77; Grand Cross Icelandic Order of the Falcon, Order of the Lion of Finland, Order of the North Star of Sweden; Grand Officer, Orders White Rose (Finland), of Merit (Argentina), K.B.E.; Commdr., Léopold II (Belgium), the Crown (Italy), the Oak Crown (Luxembourg), Orange-Nassau (Netherlands), Officier Légion d'honneur; Hon. Dr. Humane Letters (North Mich. Univ.) 1974. *Leisure interests:* athletics and reading. *Address:* Kalholinnantie 12B, Helsinki 14, Finland.

TU PING; Chinese government official; b. Kiangsu Province; Red Army Cadre during Long March; Deputy Dir., Political Dept., Chinese People's Volunteers 1951; Responsible Person PLA Shenyang Units 1953; Lieut. Gen. PLA 1955; C.-in-C., PLA Shenyang Units 1953; Deputy Political Commissar Shenyang Mil. Region 1958-63; Head PLA Nanking Units 1963; Political Commissar PLA Nanking Units 1965-; mem. Pres. CCP 9th Nat. Congress 1969 (re-elected to CCP 10th Nat. Congress 1973); mem. CCP 9th Cen. Cttee. 1969 (re-elected to 10th Cen. Cttee. 1973); Alt. mem. CCP 11th Cen. Cttee. 1977-. *Address:* People's Republic of China.

TUPINI, Giorgio; Italian industrial executive; b. 26 June 1922, Rome; ed. Rome Univ.; mem. Parl. 1948-53; fmr. Under-Sec. Prime Minister's Office; with Istituto per la Ricostruzione Industriale (I.R.I.) 1953-; fmr. Pres. and Managing Dir. Naval-meccanica of Naples; Chair. Società Finanziaria Cantieri Navali (FINCANTIERI) 1959-68; Chair. and Man. Dir. Società Finanziaria Meccanica (FINMECCANICA) 1968-74; Chair. Alitalia June 1974-; Chair. Credito Fondiario June 1974-. *Address:* Alitalia, Palazzo Alitalia, Piazzale Giulio Pastore, 00144 Rome, Italy.

TUPUA Tamasese Lealofi IV; Samoan politician and doctor; b. 8 May 1922, Apia; m. Lita 1953; five c.; ed. Fiji School of Medicine and postgraduate studies at Suva; medical practitioner 1945-69; succeeded to Paramount Chief (Tama-a-Aiga) of Tupua Tamasese 1965; mem. Council of Deputies 1968-69, Legis. Assembly Feb. 1970-; Prime Minister of Western Samoa 1970-73, 1975-76. *Leisure interests:* reading, golf. *Address:* c/o Office of the Prime Minister, Apia, Western Samoa.

TURBAY AYALA, Julio César; Colombian diplomatist and politician; b. 1916, Bogota; m.; one s. three d. House of Reps. 1943-53; Minister of Mines and Energy 1957-58, of Foreign Affairs 1958-61; Senator 1962-70; twice elected Vice-Pres. of Colombia, Pres. of Colombia 1978-(82); Perm. Rep. to UN 1967; Amb. to U.K. 1970, to U.S.A. 1974; Hon. LL.D. (Univ. of Cauca) 1957. *Address:* Oficina del Presidente, Bogota, Colombia.

TUREK, Rosalyn; American concert artist, conductor and professor; b. 14 Dec. 1914, Chicago; d. of Samuel Tureck and Monya Lipson; ed. Juilliard School of Music, New York; debut in Chicago 1924; first New York appearance 1932; concert tours U.S.A. and Canada 1937-, Europe 1947-, South Africa 1959, South America 1963, Israel 1963, World Tour (Far East and India) 1971; repeated appearances at major int. festivals; specializes in the keyboard works of J. S. Bach, played on the piano, harpischord, clavichord, antique and electronic instruments; conductor 1956-; Conductor-soloist, London Philharmonia 1958, New York Philharmonic 1958, Israel Philharmonic 1963, Kol Israel Orchestra 1963, Int. Bach Soc. Orchestra 1967, 1968, 1970, Madrid Chamber Orchestra 1972, Washington Nat. Symphony 1972; Visiting Prof. of Music, Washington Nat. Symphony 1972; Visiting Prof. of Music, Washington Univ., St. Louis 1963-64; Prof. of Music, Univ. of Calif., San Diego 1966-72, Regents Lecturer 1966; Lecturer numerous univs. and colls. of music; Visiting Fellow, St. Hilda's Coll., Oxford 1974, Hon. Life Fellow 1974-; Visiting Fellow, Wolfson Coll., Oxford 1975; Founder-director of Composers of Today 1951-55, Tureck Bach Players 1957, Int. Bach Soc. 1966, Int. Bach Soc. Orchestra 1967, Inst. for Bach Studies 1968; mem. many musical socs.; Hon. D.Mus., (Colby Coll. 1964, Roosevelt Univ. 1968, Wilson Coll. 1968, Oxford Univ. 1977, etc.); First Prize, Greater Chicago Piano Playing Tournament 1928. *Recordings:* The Well-tempered Clavier (Books I and II), Goldberg Variations, Six Partitas, Italian Concerto, French Overture, Introduction to Bach, A Bach Recital, A Harpsichord Recital. *Publications:* An Introduction to the Performance of Bach (3 vols.) 1959-60 (trans. into Japanese 1966, Spanish 1972), A Critical and Performance Edition of J. S. Bach's Chromatic Fantasia and Fugue; numerous articles in variojs periodicals; Editor: Paganini, Niccolo—Perpetuum Mobile 1950, J. S. Bach—Sarabande, C. Minor 1960, Scarlatti, Alessandro—Sarabande and Gavotte, Bach Keyboard Works 1977. *Films:* Fantasy and Fugue: Rosalyn Tureck plays Bach 1972, Rosalyn Tureck plays Bach on Harpsichord and Organ 1977, Joy of Bach (Rosalyn Tureck Soloist and Consultant) 1979. *Address:* c/o Columbia Artists Management Inc., 165 West 57th Street, New York, N.Y. 10019, U.S.A.

TURKEVICH, Anthony Leonid, PH.D.; American professor of chemistry; b. 23 July 1916, New York; s. of Rev. L. J. Turkevich and Anna (Chervinsky) Turkevich; m. Ireene T. Podlesak 1948; one s. one d.; ed. Columbia Grammar School, Curtis High School, Dartmouth Coll., Hanover N.H., Princeton Univ.; Research Assoc. Physics Dept. Univ. of Chicago 1940-41; Research Assoc. Manhattan Project, Columbia Univ., Univ. of Chicago, Los Alamos Scientific Lab. 1942-46; Asst. Prof. Enrico Fermi Inst. and Chemistry Dept. Univ. of Chicago 1946-48, Assoc. Prof. 1948-54, Prof. 1954-, James Franck Prof. of Chemistry 1965-70, Distinguished Service Prof. 1970-; Consultant to U.S. Atomic Energy Comm. Labs. 1946-; Del. to Geneva Conf. on Nuclear Test Suspension 1958, 1959; mem. of Nat. Acad. of Sciences, American Chem. Soc., American Physical Soc., Royal Soc. of Arts (London), American Assn. for the Advancement of Science, American Acad. of Arts and Sciences; E. O. Lawrence Award of U.S. Atomic Energy Comm. 1962, Atoms for Peace Prize 1969, Nuclear Applications Award (American Chemical Soc.) 1972. *Publications:* articles on intra-nuclear cascades, on chemical analysis of the moon and on high energy nuclear reactions. *Leisure interests:* hiking, reading. *Address:* Enrico Fermi Institute, University of Chicago, 5640 South Ellis Avenue, Chicago, Ill. 60637, U.S.A. *Telephone:* 312-753-8626.

TÜRKMEN, Ilter; Turkish diplomatist; b. 1927, Istanbul; s. of Behçet Türkmen and Nuriye Türkmen; m. Mina Türkmen 1953; one s. one d.; ed. Galatasaray Lycée, Istanbul, Faculty of Political Sciences, Ankara; Dir.-Gen. of Policy Planning Dept., Ministry of Foreign Affairs 1964, Asst. Sec.-Gen. for Political Affairs 1967, Amb. to Greece 1968, to U.S.S.R. 1972; Perm. Rep. to UN 1975-77. *Address:* c/o Ministry of Foreign Affairs, Ankara, Turkey.

TURNBULL, David, PH.D.; American professor of applied physics; b. 18 Feb. 1915, Elmira, Ill.; s. of David Turnbull and Luzetta A. Murray; m. Carol M. Cornell 1946; two s. one d.; ed. Monmouth Coll., Ill., and Univ. of Illinois; Faculty, Case School of Applied Science, Cleveland, Ohio 1939-46; Scientist, Research Lab., Gen. Electric Co., Schenectady, N.Y. 1946-62; Man. Chemical Metallurgy Section, Gen. Electric Research Lab., Schenectady 1950-58; Gordan McKay Prof. of Applied Physics, Harvard Univ. 1962-; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences; Inst. of Metals Lecturer, American Inst. of Mech. Engineers 1961; Hon. Sc.D. (Monmouth (Ill.) Coll.). *Publications:* Co-editor (with Seitz and Ehrenreich) Solid State Physics Series; Co-Editor (with Dorem and Roberts) Growth and Perfection of Crystals 1958; scientific publs. and reviews on nucleation, crystal growth, diffusion, liquids, glass state. *Leisure interests:* history, hiking. *Address:* Pierce Hall, Harvard University, Cambridge, Mass. 02138; 77 Summer Street, Mass. 02193, U.S.A. (Home). *Telephone:* 495-2838 (Univ.).

TURNBULL, George Henry, B.SC., F.I.MECH.E., F.I.P.E., F.I.M.I., F.I.M., F.INST.D.; British business executive; b. 17 Oct. 1926, London; s. of Batholomew and Pauline A. Turnbull; m. Marion Wing 1950; one s. two d.; ed. Bablake and Henry VIII schools, Coventry Technical Coll., and Birmingham Univ.; Personal Asst. to Technical Dir. Standard Motor Co. 1950-51; Liaison Officer between Standard Motor Co. and Rolls-Royce 1951-53; Exec. in charge Experimental Div., Standard Motor Co. 1954-55; Works Man. Petters Ltd. 1955-56; Div. Man. Car Production, Standard Motor Co. 1956-59, Gen. Man. 1959-62; Dir. and Gen. Man. Standard Triumph Int. Ltd. 1962-68; Man. Dir. British Leyland Austin Morris 1968; Deputy Man. Dir. British Leyland Motor Corpn. 1968-73, Man. Dir. May-Sept. 1973; Man. Dir. Austin Morris British Leyland U.K. 1968-73; Vice-Pres., Dir. Hyundai Corpn., Seoul 1974-77; Chair. and Man. Dir. Chrysler U.K. April 1979-; mem. Man. Board, Engineering Employers' Fed.; mem. Birmingham Chamber of Commerce and Industry. *Leisure interests:* golf, tennis. *Address:* Chrysler U.K., P.O. Box 122A, Whitby, Coventry CV3 4GB, England.

TURNBULL, Sir Richard Gordon, G.C.M.G.; British overseas administrator; b. 7 July 1909, St. Albans, Herts; s. of Richard Francis Turnbull and Livia Causley; m. Beatrice Wilson 1939; two s. one d.; ed. Univ. Coll., London, and Magdalene Coll., Cambridge; with Colonial Admin. Service Kenya, District Officer 1931-48, Provincial Commr. 1948-53, Minister for Internal Security and Defence 1954; Chief Sec. of Kenya 1955-58; Gov., Tanganyika 1958-61; Gov.-Gen. 1961-62; Chair. Cen. Land Board, Kenya 1963-64; High Commr. for Aden and the Protectorate of South Arabia 1965-67; Fellow, Univ. Coll., London, Hon. Fellow, Magdalene Coll., Cambridge. *Address:* Queen Anne Cottage, Friday Street, Henley-on-Thames, Oxon., RG9 1AN, England. *Telephone:* Henley 2170.

TURNER, Francis John, D.SC.; American professor of geology; b. 10 April 1904, Auckland, New Zealand; s. of Joseph H. Turner and Gertrude K. Turner (née Reid); m. Esmé R. Bentham 1930; one d.; ed. Auckland Grammar and Auckland Univ., New Zealand; Lecturer in Geology, Univ. of Otago, New Zealand 1926-46; Prof. of Geology, Univ. of Calif., Berkeley, U.S.A. 1946-72, Prof. Emer. 1972-; Sterling Fellow, Yale 1938-39; Guggenheim Fellow 1951, 1960; Fulbright Fellow (Australia) 1956; Visiting Fellow, Brasenose Coll., Oxford 1972-73; Co-ed. Contributions to Mineralogy and Petrology 1965-; mem. OAS Mission to Univ. of São Paulo, Brazil 1962; Fellow, Geological Soc. of America, Royal Soc. of New Zealand, Mineralogical Soc. of America (Pres. 1968-69), California Acad. of Sciences; mem. Nat. Acad. of Sciences; Corresp. mem. Accademia delle Scienze, Bologna, Geological Soc. of Edinburgh, Geological Soc. of London; Hector Medal, Royal Soc. N.Z. 1951; Hon. D.Sc. (Auckland Univ.) 1963; Lyell Medal, Geol. Soc., London 1969; Berkeley Award (Univ. of Calif.) 1972. *Publications:* Evolution of Metamorphic Rocks 1948, Igneous and Metamorphic Petrology (with J. Verhoogen) 1951, 1966, Petrography (with J. Williams and C. M. Gilbert) 1953, Structural Analysis of Metamorphic Tectonites (with L. E. Weiss) 1963, Metamorphic Petrology 1968, The Earth (with J. Verhoogen et al.) 1970, Igneous Petrology (with I.S.E. Carmichael and J. Verhoogen) 1974. *Leisure interests:* travel, painting of classical schools, wine. *Address:* 2525 Hill Court, Berkeley, Calif. 94708, U.S.A. *Telephone:* 415-845-6764 (Home).

TURNER, Hon. John Napier, P.C., Q.C.; Canadian politician and lawyer; b. 7 June 1929, Richmond, Surrey, England; s. of Leonard and Phyllis (née Gregory) Turner; m. Geills McCrae Kilgour 1963; three s. one d.; ed. schools in Ottawa, and Univs. of British Columbia Oxford and Paris; mem. Parl 1962-76; Minister without Portfolio 1965; Registrar-Gen. 1967-68; Minister of Consumer and Corporate Affairs Jan.-July 1968: Solicitor-Gen. April-July 1968; Minister of Justice and Attorney-Gen. 1968-71; Minister of Finance 1972-75; joined law firm of McMillan, Binch Toronto 1976-; Liberal. *Publications:* The Senate of Canada 1961, Politics of Purpose 1968. *Leisure interests:* tennis, squash, canoeing, skiing. *Address:* 38th floor, Royal Bank Plaza, P.O. Box 38, Toronto Ont. M5P 254 (Office); 435 Russell Hill Road, Toronto, Ont. M5P 2S4, Canada.

TURNER, Sir Mark (*see* Turner, Sir Ronald Mark Cunliffe).

TURNER, Sir Michael William Kt., C.B.E., M.A., F.Z.S.; British banker; b. 25 April 1905, Winchester; s. of late Sir Skinner Turner and late Lady Turner; m. Wendy Spencer (née Stranack) 1938; three s.; ed. Marlborough Coll., and Univ. Coll., Oxford; joined Hongkong and Shanghai Banking Corpn. 1926, Chair. and Chief Man. 1953-62; interned in Singapore 1942-45; fmr. Regional Dir. Nat. Westminster Bank; mem. London Advisory Cttee. The Hongkong Bank Group, and various cos. Hon. LL.D. (Hong Kong 1959); Colonial Police Medal 1956; Commdr. Order of Prince Henry the Navigator (Portugal) 1963, Order of St. John of Jerusalem 1960; Skinner and Citizen of City of London, Master of the Skinners' Co. 1967-68. *Leisure interests:* fishing and shooting. *Address:* Flat 6, 39 Egeton Gardens, London S.W.3, England.

TURNER, Sir Ralph Lilley, Kt., M.C., M.A., LITT.D., F.B.A.; British oriental scholar; b. 5 Oct. 1888, Charlton; s. of George Turner, O.B.E.; m. Dorothy Rivers Goulty 1920 (died 1972); one s. three d.; ed. Perse School, and Christ's Coll., Cambridge; Fellow of Christ's Coll., Cambridge 1912, Hon. Fellow 1950; Lecturer in English and Sanskrit, Queen's Coll., Benares 1913; attached 2/3rd Gurkha Rifles, Indian Army Reserve of Officers 1915-19; Prof. of Indian Linguistics, Hindu Univ. of Benares 1920; Prof. of Sanskrit, London Univ. 1922-54, Emer. 1954-; Dir. School of Oriental and African Studies Sept. 1937-57; mem. Advisory Cttee. on Education of the Colonies and other cttees.; Hon. Fellow School of Oriental and African Studies (London) 1957, Deccan Coll. (Poona) 1958; Hon. mem. Soc. Asiatique (Paris), Deutsche Morgenländische Gesellschaft, American Oriental Soc., Linguistic Soc. of America, Linguistic Soc. of India, etc.; Corresp. mem. Norske Videnskaps-Akademi; Foreign Corresp. Institute de France (Acad. des Inscriptions et Belles Lettres); Hon. Fellow Ceylon Acad. of Letters; Hon. D.Litt. (Banaras), Hon. D.Lit. (Ceylon, London, Visva-Bharati, Santiniketan, Kathmandu); Gorkha Dakshina Bahu (First Class) of Nepal. *Publications:* Gujarati Phonology 1921, The Position of Romani in Indo-Aryan 1927, A Comparative and Etymological Dictionary of the Nepali Language 1931, The Gavimath Inscription of Asoka 1932, Report to the Nuffield Foundation on ■ Visit to Nigeria (with J. T. Saunders and D. Veale) 1946, Some Problems of Sound Change in Indo-Aryan 1960, A Comparative Dictionary of the Indo-Aryan Languages 1966, Indexes volume (with Dorothy R. Turner) 1969, Phonetic Analysis Volume 1970, Collected Papers 1912-1973. *Leisure interest:* comparative philology. *Address:* Haverbrack, Barrels Down Road, Bishop's Stortford, Herts., England. *Telephone:* Bishop's Stortford 54135.

TURNER, Sir (Ronald) Mark (Cunliffe), Kt.; British banker; b. 29 March 1906, London; s. of Christopher R. Turner and Jill H. P. Cunliffe; m. Margaret Wake 1939; three s. two d.; ed. Wellington Coll., Berks.; with M. Samuel and Co. Ltd., Merchant Bankers 1924, Robert Benson and Co. Ltd., Merchant Bankers 1934; Ministry of Econ. Warfare 1939-44, Foreign Office 1944-45; Under-Sec. Control Office for Germany and Austria 1945-47; Chair. Mercantile Credit Co. Ltd. 1957-73; Deputy Chair. Kleinwort, Benson Ltd. 1969-76, Rio Tinto Zinc Corpn. 1966-75, Chair., Chief Exec. 1975-78, Chair. British Home Stores 1968-76, Bank of America Int. 1971-76, Brinco 1976-. *Leisure interests:* shooting, golf. *Address:* 3 The Grove, Highgate Village, London, N.6, England.

TURNER, Admiral Stansfield, M.A., D.S.M.; American naval officer (retd.) and government official; b. 1 Dec. 1923, Highland Park, Chicago, Ill.; s. of Oliver Stansfield and Wilhelmina Josephine (née Wagner) Turner; m. Patricia Busby Whitney 1953; one s. one d.; ed. Amherst Coll., U.S. Naval Acad., Annapolis, Oxford Univ. U.K.; Rhodes Scholar, Oxford Univ. 1947; active duty, U.S. Navy, serving minesweeper, destroyers, U.S.S. Horne (guided missile frigate in action in Vietnamese conflict); served in Office of Chief of Naval Operations, then in Office of Asst. Sec. of Defence for Systems Analysis; Advanced Man. Program, Harvard Business School; Exec. Asst. and Naval Aide to Sec. of the Navy 1968-70; Rear Admiral 1970; C.O. Carrier Task Group on board U.S.S. Independence, U.S. Sixth Fleet 70; Dir. Systems Analysis Div. of Office of Chief of Naval Operations, Dept. of the Navy 1971-72; Pres. U.S. Naval War Coll., Newport, R.I. 1972-74; Commdr. U.S. Second Fleet and NATO Striking Fleet Atlantic 1974-75; Admiral 1975; C.-in-C. Allied Forces Southern Europe, NATO 1975-77; Dir. Cen. Intelligence Agency (CIA) March 1977-; Legion of Merit, Bronze Star. *Address:* Central Intelligence Agency, Washington, D.C. 20505, U.S.A.

TURNER, Wilfred, B.SC., C.M.G.; British civil servant and diplomatist; b. 10 Oct. 1921, Littleborough, Lancs.; ed. Heywood Grammar School and London Univ. (external); Ministry of Labour and Nat. Service 1938-42, 1947-55; served in British army 1942-47; Asst. Labour Adviser, British High Comm. in India 1955-56; Senior Wages Inspector, Ministry of Labour 1959-60; at Ministry of Health 1960-66; joined Foreign and Commonwealth Office 1966; First Sec. Kaduna, N. Nigeria 1966-69, Kuala Lumpur, Malaysia 1969-73; Deputy High Commr. in Ghana 1973-77; High Commr. in Botswana Feb. 1977-. *Address:* British High Commission, P.O. Box 0023, Gaborone, Botswana; 44 Tower Road, Twickenham, Middx., TW1 4PE, England (Home).

TURNER, William Cochrane, B.S.; American diplomatist and business executive; b. 27 May 1929, Red Oak, Iowa; s. of James Lyman Turner and Josephine Cochrane Turner; m. Cynthia Dunbar 1955; three s.; ed. Northwestern Univ.; Vice-Pres. and Dir., Western Management Consultants Inc. 1952-60, Pres. and Dir. 1960-74, Pres. and Dir. Western Management Consultants Europe S.A. 1968-74; Dir. Ryan-Evans Drug Stores Inc. 1968-72, First Nat. Bank of Arizona 1971-74; Amb. and U.S. Rep. to OECD 1974-77; mem. U.S. Advisory Comm. on Int. Educ. and Cultural Affairs 1969-74, Nat. Review Board 1970-74, Center for Cultural Interchange between East and West, Panel on Int. Information, Educ. and Cultural Relations, Center for Strategic and Int. Studies 1973-75, Western Int. Trade Group 1970-74, Brookings Inst. Urban Policy Conf.; Pres. and Dir. Phoenix Symphony Assn.; Dir. American Graduate School for Int. Management 1971; Nat. Trustee, Nat. Symphony Orchestra Assn. 1973; mem. Inst. of Management Consultants 1972-74, Board of Govs. American Hosp. of Paris 1974, Board of Trustees, American School of Paris, Saint-Cloud 1975. *Leisure interests:* tennis, symphony, opera, international political and economic relations. *Address:* 19 rue de Franqueville, 75016 Paris, France (Office); 4201 North 63rd Place, Scottsdale, Ariz. 85251, U.S.A. (Home). *Telephone:* 524-9737 (Office).

TURPIN, Raymond Alexandre; French professor of medicine; b. Nov. 1895, Pontoise (Val d'Oise); m. Simone Gaillochet 1931 (deceased); six c.; ed. Faculty of Medicine, Paris; served in First World War as Auxiliary Doctor in 9th Infantry Regt., Verdun 1916; Hosp. Intern as part of medical training 1921; Prof., Faculty of Medicine, Paris 1947; created Inst. of Progenesis, attached to the Faculty of Medicine 1959; made first BCG vaccinations against tuberculosis with Calmette and Weil-Hallé 1921; discovered the electromyographic anomalies of tetany 1942; initiated the study of human genetics in France 1941-44, and discovered in 1958 first chromosome irregularities of number (mongolism), then of structure (translocation) 1959; mem. Acad. de Médecine, Acad. des Sciences and numerous other learned socs. in France and abroad; Commdr. de la Légion d'honneur, Médaille militaire, Médaille de Verdun, Croix de guerre; many awards. *Publications:* include Tétanie de l'enfant, Hérédité des prédispositions morbides, La progenèse (with colleagues), Les chromosomes humains, Caryotypes normaux et variations pathologiques (with pupil, J. Lejeune). *Leisure interest:* bibliophilism. *Address:* 94 avenue Victor Hugo, 75116 Paris, France. *Telephone:* 553-05-61.

TURRETTINI, Bernard, LIC.JUR., M.B.A.; Swiss diplomatist; b. 1911, Paris, France; ed. Univ. of Geneva, Switzerland, and Harvard Business School, Mass., U.S.A.: bank employee, New York 1939-40; entered Fed. Political Dept., Berne 1940, diplomatic posts in Rio de Janeiro, Algiers, Paris and Washington 1940-51; Dir. Communications Section of Div. of Int. Orgs., Fed. Political Dept. 1951-54, Deputy Chief of Div. of Int. Orgs. 1959-61; Swiss Del. to Cen. Comm. for Navigation of the Rhine, Strasbourg 1951-59; Amb. to Venezuela and Minister in Panama 1961-63, Amb. to Trinidad and Tobago 1963-64, to Panama 1964-66; Perm. Observer of Switzerland at UN 1966-74; Amb. to Sweden 1974-77. *Address:* c/o Département politique fédérale, Berne, Switzerland.

TURYN, Alexander, PH.D.; Polish-American philologist; b. 26 Dec. 1900, Warsaw; s. of Arnold Turyn and Ernestyna Glazer; m. Felicia L. Sachs 1926; one s.; ed. Warsaw and Berlin Univs.; Instructor Warsaw Univ. 1925, Docent 1929, Prof. Extra of Classical Philology 1935-39; Lecturer, Univ. of Michigan 1941; Assoc. Prof. New School for Social Research, New York 1942-45; Prof. Univ. of Illinois 1945-69; mem. Center for Advanced Study 1962-69, Prof. Emer. 1969-; Corresp. mem. Polish Acad. Cracow, Acad. of Athens; research collaborator, Vatican Library 1960-66; Foreign mem. Istituto Lombardo (Milan); Hon. mem. Epistemonike Hetaireia, Athens; Fellow, Guggenheim Foundation 1959; Hon. Ph.D. (Athens Univ.) 1965, Award of Merit, American Philological Assn. 1960, Alfred Jurzykowski Foundation Award 1978. *Publications:* Observationes metricae 1923, Studia Sapphica 1929, De Aelii Aristidis codice Varsoviensi atque de Andreae Taranowski et Theodosio Zygomala 1929, De codicibus Pindaricis 1932, The Manuscript Tradition of the Tragedies of Aeschylus 1943, Pindari Epinicia 1944, The Manuscripts of Sophocles 1944, Pindari Carmina cum fragmentis 1948, The Sophocles Recension of Manuel Moschopulus 1949, Studies in the Manuscript Tradition of the Tragedies of Sophocles 1952, The Byzantine Manuscript Tradition of the Tragedies of Euripides 1957, Codices graeci Vaticani saeculis XIII et XIV scripti annorumque notis instructi 1964, Dated Greek Manuscripts of the Thirteenth and Fourteenth Centuries in the Libraries of Italy 1972, Demetrius Triclinius and the Planudean Anthology 1973, Michael Lulludes, ■ Scribe of the Palaeologan Era 1974. *Address:* 801 South Maple Street, Urbana, Ill. 61801, U.S.A. *Telephone:* 217-367-3911.

TUTHILL, John Wills; American diplomatist; b. 10 Nov. 1910, Montclair, N.J.; s. of Oliver B. Tuthill and Louise Jerolem Wills; m. Erna Margaret Lüders 1937; one s. one d.; ed. Coll. of William and Mary, New York Univ., and Harvard Univ.; private banking 1932-36; Investment Counsel 1936-37; Instructor and Asst. Prof. Northeastern Univ. 1937-40; Foreign Service Officer 1940-, Canada, Mexico, SHAEF, U.S. Military Govt., Berlin, Dept. of State, Stockholm, London, Bonn, Paris, Dept. of State 1959-60; American Amb. to Organisation for Econ. Co-operation and Devt. (OECD) 1961-62, to the European Communities 1962-66, to Brazil 1966-69; Prof. of Int. Studies, Bologna, Italy 1969; Dir.-Gen. and Gov., Atlantic Inst. for Int. Affairs, Paris 1969-76; Pres. Salzburg Seminar in American Studies 1977; Woodrow Wilson Visiting Fellow 1978-. *Leisure interests:* reading, skiing, tennis, riding, swimming. *Address:* Salzburg Seminar, 17 Dunster Street, Cambridge, Mass. 02138; 2801 New Mexico Avenue, N.W., Washington, D.C. 20007, U.S.A. (Home).

TUTIN, Dorothy, C.B.E.; British actress; b. 8 April 1930, London; d. of Dr. John Tutin and A. E. Fryers; m. Derek Waring 1963; one s. one d.; ed. St. Catherine's Bramley, Surrey, and Royal Acad. of Dramatic Art, London; appeared at Stratford Festival 1958, 1960; took part in Shakespeare Memorial Theatre tour of Russia 1958; Shakespeare recital before Pope, Vatican 1964; Evening Standard Award as Best Actress 1960, Variety Club of Great Britain Award for Best Film Actress 1972; Soc. of the West End Theatre Award for Actress of the Year in a Revival 1976. *Principal roles:* Rose (The Living Room), Katherine (Henry V), Sally Bowles (I am a Camera), St. Joan (The Lark), Catherine (The Gates of Summer), Hedwig (The Wild Duck), Viola (Twelfth Night), Ophelia (Hamlet), Dolly (Once More, With Feeling), Portia (The Merchant of Venice), Cressida (Troilus and Cressida), Sister Jeanne (The Devils) 1961, 1962, Juliet (Romeo and Juliet) and Desdemona (Othello), Stratford-on-Avon 1961, Varya (The Cherry Orchard) 1961, Prioress (The Devils), Edinburgh 1962, Polly Peachum (The Beggar's Opera) 1963, Queen Victoria (Portrait of a Queen) 1965 and in New York 1968, Rosalind (As You Like It), Stratford-on-Avon 1967, Los Angeles 1968; Cleopatra (Antony and Cleopatra) 1977, Madame Ravanskaya (The Cherry Orchard); has also played in The Hollow Crown, New York 1963, Old Times 1971, Peter Pan 1971, 1972, What Every Woman Knows 1973, 1975, A Month in the Country 1974, 1976, Macbeth 1976, The Cherry Orchard 1978, The Double Dealer 1978. *Films include:* The Beggar's Opera, The Importance of Being Earnest, A Tale of Two Cities, Cromwell, Savage Messiah. *Leisure interest:* Music. *Address:* c/o Peter Browne Management, 13 St. Martin's Road, London, S.W.9, England.

TUTTLE, O. Frank; American professor of geochemistry; b. 25 June 1916, Olean, N.Y.; s. of Orvel Delano Tuttle and Lucy Holmes; m. Dawn Hardes 1941; two d.; ed. Pennsylvania State Coll. and Massachusetts Inst. of Technology; Physical chemist, Geophysical Lab., Washington 1942-45, U.S. Naval Research Lab., Washington 1945-47; Petrologist, Geophysical Lab. 1947-53; Prof. of Geochemistry and Chair. Div. of Earth Sciences, Pa. State Univ. 1953-59; Dean, Coll. of Mineral Industries 1959-60; Prof. of Geochemistry, Penn. State Univ. 1960-65; Prof. of Geochemistry, Stanford Univ. 1965-67; now retd.; mem. Nat. Acad. of sciences 1968; Mineralogical Soc. of America Award (first recipient) 1951 and Roebling Medal 1975; Day Medal, Geological Soc. of America 1967. *Publications:* 78 scientific papers, two books. *Leisure interests:* studying securities, cabinet making, hiking. *Address:* 4850 West Lazy C Drive, Tucson, Ariz. 85705; Box 16, Greer, Ariz. 85927, U.S.A. *Telephone:* 602-622-8379.

TUTUOLA, Amos; Nigerian writer; b. 1920, Abeokuta, W. Nigeria; s. of Charles and Esther Tutuola; m. Victoria Tutuola 1947; four s. four d.; ed. Mission Schools; worked on father's farm; trained ■■ coppersmith; served with R.A.F. Second World War; Nigerian Broadcasting Corpn., Ibadan 1945-. *Publications:* The Palm-Wine Drinkard 1952, My Life in the Bush of Ghosts 1954,

Simbi and the Satyr of the Jungle 1955, The Brave African Huntress 1958, The Feather Woman of the Jungle 1962, Ajaiyi and His Inherited Poverty 1967. *Leisure interests:* farming, writing. *Address:* P.O. Box 2251, Ibadan, Nigeria.

TUVE, Merle Antony, PH.D.; American research physicist; b. 27 June 1901; ed. Univ. of Minnesota, Princeton Univ., and Johns Hopkins Univ.; Instructor in Physics, Princeton Univ. 1923-24, Johns Hopkins Univ. 1924-26; Physicist and Staff mem. Carnegie Inst. of Washington 1926-46, Dir. Dept. of Terrestrial Magnetism 1946-66; Chair. Section T, Nat. Defence Research Cttee. and Office of Scientific Research and Devt. 1940-45; Chair. Advisory Panel on Radio Astronomy, Nat. Science Foundation 1953-; U.S. Comm. for the Inst. Geophysical Year; Editor Journal of Geophysical Research 1949-58; Fellow American Physical Soc., Inst. of Radio Engineers, American Assen. for the Advancement of Science; mem. Nat. Acad. of Sciences, Home Sec. 1966-72, American Acad. of Arts and Sciences and American Philosophical Soc.; Hon. Sc.D. (Case, Kenyon, Williams, Johns Hopkins, Univ. of Alaska), Hon. LL.D. (Augustana and Carleton); Presidential Medal for Merit 1946, Hon. C.B.E. 1948, Bowie Medal 1963, and many other awards. *Publications:* Exploration of the Upper Atmosphere (Ionosphere) by Radio Pulse Methods 1925-29, High Voltage Techniques for Nuclear Physics 1930-35, Resonance Levels in the Atomic Nucleus 1935-37, etc. *Address:* 135 Hesketh Street, Chevy Chase, Md. 20015, U.S.A.

TUZO, Gen. Sir Harry Craufurd, G.C.B., O.B.E., M.C., M.A.; British army officer (retd.); b. 26 Aug. 1917, Bangalore, India; s. of John A. Tuzo and Annie K. Craufurd; m. Monica P. Salter 1943; one d.; ed. Wellington Coll. and Oriel Coll., Oxford; Regimental Service, Royal Artillery 1939-45; staff appts. Far East 1946-49; Royal Horse Artillery 1950-51, 1954-58; mem. Staff, School of Infantry 1951-53; Gen. Staff Officer, War Office 1958-60; Commdg. Officer, 3rd Regt. Royal Horse Artillery 1960-62; Asst. Commdt., Sandhurst 1962-63; Commdr. 51 Gurkha Infantry Brigade 1963-65; Imperial Defence Coll. 1966; Chief of Staff, British Army of the Rhine 1967-69; Dir. Royal Artillery 1969-71; Gen. Officer Commanding, Northern Ireland 1971-73; C.-in-C. BAOR and Commdr., Northern Army Group, NATO 1972-76; Deputy Supreme Allied Commdr. Europe 1976-78; mem. Board Govs. Corpn. of Commrs.; Master Gunner, St. James's Park 1977; Hon. Fellow, Oriel Coll., Oxford. *Publications:* articles in professional publications. *Leisure interests:* music, sailing, shooting. *Address:* c/o Army & Navy Club, Pall Mall, London, S.W.1, England.

TWINING, Gen. Nathan F.; American air force officer; b. 11 Oct. 1897; ed. U.S. Military Acad., Infantry School, Air Corps Tactical School, Commd. and Gen. Staff School; Commissioned Second Lieut. Infantry 1918; transferred to Air Corps 1924; advanced through grades to Lieut.-Gen. 1945, Gen. 1950; Chief of Staff to Commdg. Gen. S. Pacific 1942-43; Commdg. Gen. 13th Air Force, Solomon Islands 1943, 15th Air Force, Italy 1944-45, 20th Air Force, Pacific 1945, Alaska 1947-50; Vice-Chief of Staff U.S.A.F. 1950-53, Chief of Staff 1953-57; Chair. Joint Chiefs of Staff 1957-60 (retd.); Vice-Chair. Holt, Rinehart and Winston 1961-67; Dir. United Tech. Labs.; awarded D.S.M. (Army and Navy), Legion of Merit with oak leaf cluster, D.F.C., Air Medal, etc.; Hon. K.B.E. (U.K.). *Address:* 736 Islandway, Apt. 1101, Clearwater, Fla. 33515, U.S.A.

TWISLETON-WYKEHAM-FIENNES, Sir Maurice Alberic, Kt., C.ENG., F.I.MECH.E.; British company director (retd.); b. 1 March 1907, London; s. of Alberic Arthur Twisleton-Wykeham-Fiennes and Gertrude Theodosia Pomeroy-Colley; m. 1st Sylvia Mabel Joan Finaly 1932, 2nd Erika Hueller von Huellenried 1967; two s. three d. (by 1st marriage); ed. Repton School, Derbyshire, and Armstrong Coll., Newcastle; Man. Pneumatic Tool Dept., Sir. W. G. Armstrong Whitworth and Co. 1930-37; Commercial Asst. to Man. Dir. United Steel Companies Ltd.; Gen. Works Dir. Brush Electrical Engineering Co. Ltd. 1942-45; Managing Dir. Davy and United Engineering Co. Ltd., Sheffield 1945-60; Man. Dir. Davy-Ashmore Group 1960-69, Chair. 1961-69; Dir. Continuous Casting Co. Ltd. 1957-69; Clyde Crane and Booth Ltd. 1961-68, Simon Engineering Ltd. 1962-69, North Sea Marine Engineering Construction Co. Ltd. 1964-69, Metallurgical Equipment Export Co. Ltd. 1964-67; Pres. Iron and Steel Inst. 1962-63; Steel Industry Adviser (UN) to Govt. of Peru 1974-75; Eng. Adviser (IBRD) to Venezuelan Investment Fund 1976-77; Assoc. Consultant, L. H. Manderstam and Partners Ltd. 1977-; Hon. Vice-Pres. Indian Inst. of Metals; Hon. mem. American Iron and Steel Inst., Verein Deutscher Eisenhüttenleute; Chair. CBI Overseas Scholarships Board, Gov. 1970-76; Gov. Yehudi Menuhin School. *Leisure interest:* music. *Address:* Gowers Close, Sibford Gower, Banbury, Oxon., England. *Telephone:* (029-578) 292.

TYERMAN, Donald, C.B.E.; British journalist; b. 1 March 1908, Middlesbrough, Yorks.; s. of Joseph Tyerman and Catherine Tamar Day; m. Margaret Charteris Gray 1934; two s. three d.; ed. Gateshead-on-Tyne Secondary School and Brasenose Coll., Oxford; Lecturer Univ. Coll. Southampton 1930-36; Asst. and later Deputy Editor The Economist 1937-44; Deputy Editor The Observer 1943-44; Asst. Editor The Times 1944-55; Editor The Economist 1956-65; Chair. Exec. Board Int. Press Inst. 1961-62, Press Freedom Cttee; mem. Council Overseas Devt. Inst.; Dir. Economist Newspaper Ltd. 1959-69; presently Dir. United City Merchants Ltd.; fmr. mem. Council of Commonwealth Press Union; Gov. London School of Econs. 1951-75; mem. Press Council 1964-69; mem. of Council, Univ. of Sussex 1964-75; Hon. Assoc. Save the Children Fund, Hon. Treas. 1967-75. *Leisure interests:* reading, watching games and television, the countryside. *Address:* 41 Buckingham Mansions, West End Lane, London, N.W.6; and Holly Cottage, Westleton, Saxmundham, Suffolk, England. *Telephone:* 01-435-1030 (London); 0728-73-261 (Suffolk).

TYLER, William Royall; American government official; b. 17 Oct. 1910, Paris, France; s. of Royall Tyler and Elisina de Castelvecchio; m. Bettine Mary Fisher-Rowe 1934; one s. one d.; ed. Oxford and Harvard Univs.; Guaranty Trust Co., New York City 1934-38; Programme Man. Short Wave Radio Station Boston 1940-42; Office of War Information, New York 1942, North Africa 1943-44, France 1944-45; Dept. of State 1945-, Counsellor, Paris 1948-54; Deputy Dir. Office of Western European Affairs, Washington 1954-57, Dir. 1957-58; Political Counsellor, Bonn 1958-61; Deputy Asst. Sec. of State for European Affairs, Dept. of State 1961-62, Asst. Sec. of State 1962-65; Amb. to Netherlands 1965-69; Dir. Dumbarton Oaks Research Library and Collection (Harvard Univ.) Washington, D.C. 1969-77; Corresp. mem. Mass. Historical Soc., Acad. de Dijon; Assoc. mem. Centre Européen d'Etudes Burgondo Médianes; Fellow, American Acad. of Arts and Sciences; Chevalier, Légion d'honneur. *Publications:* A Moment of Silence (trans. from Dutch), Dijon and the Valois Dukes of Burgundy 1971. *Leisure interests:* history of art, history, music. *Address:* Antigny-le-Château, 21230 Arnay-le-Duc, France.

TYNAN, Kenneth Peacock, B.A., F.R.S.L.; British writer; b. 2 April 1927, Birmingham; s. of Sir Peter Peacock and Letitia Tynan; m. 1st Elaine Dundy 1951, 2nd Kathleen Halton 1967; one s. two d.; ed. Magdalen Coll., Oxford; Dir. of Repertory Theatre, Lichfield 1949; directed plays in and around London and on television 1950-51; Drama Critic The Spectator 1951; Drama Critic Evening Standard 1952-53; Drama Critic Daily Sketch 1953-54; Drama Critic of The Observer 1954-63; Script Editor of Ealing Films 1956-58; Drama Critic of The New Yorker 1958-60; TV. producer 1961-62; Literary Manager Nat. Theatre 1963-73; Film Critic The Observer 1964-66, Arts Columnist 1968-69; co-author (with Roman Polanski) of screen adaptation of Macbeth 1970, Staff Writer The New Yorker 1976-. *Publications:* He that Plays the King 1950, Persona Grata (with Cecil Beaton) 1953, Alec Guinness 1953, Bull Fever 1955, Curtains 1961, Tynan Right and Left 1967, A View of the English Stage 1944-63 1975, The Sound of Two Hands Clapping 1975; *plays:* The Quest for Corbett (with Harold Lang) 1956; Oh Calcutta 1969, Carte Blanche 1976. *Leisure interests:* food, wine. *Address:* 20 Thurloe Square, London, S.W.7, England.

U

UBAC, Raoul; Belgian painter; b. 1910; ed. Sorbonne and Ateliers de la Grande Chaumière; settled in Paris 1932; work in surrealist photography 1932-39; abandoned photography for pen-drawing, gouache, painting and sculpture of slates; exhbns. Paris 1943, London and Brussels 1946, Galerie Maeght (Paris) 1950, 1955, 1958, 1964, 1966, Basel Kunsthalle 1954, Zürich and São Paulo 1957, Carnegie Inst. (Pittsburgh) 1958, Dokumenta (Kassel and Geneva) 1959, Dunn Int. Exhbn., London 1963; Musée d'Art moderne, retrospective exhbn. Paris 1968; works in New York Museum of Modern Art, Kunstmuseum, Basle, Carnegie Foundation, Pittsburgh, Musée d'Art Moderne, Paris and Brussels, and in numerous private collections. *Publications:* Illustrations for poems of André Frénaud and for Pierre Ecrite by Yves Bonnefoy, Proximité du Murmure by Jacques Dupin, etc. *Address:* 11 rue d'Orchampt, 75018 Paris, France.

UBBELOHDE, Alfred R. J. P., C.B.E., F.R.S., M.A., D.SC., F.R.I.C., F.INST.P., M.I.CHEM.E.; British professor of thermodynamics; b. 14 Dec. 1907, Antwerp, Belgium; s. of F. C. Ubbelohde and Angele Verspreeuwen; ed. St. Paul's School London, and Christ Church, Oxford. Dewar Fellow, Royal Inst. 1935-40; with Ministry of Supply 1940-45; Prof. of Chem., Queen's Univ., Belfast 1945-54, Dean of Faculty of Science 1947-51; Prof. of Thermodynamics, Imperial Coll. of Science and Technology, London Univ. 1954-75, Head of Dept. of Chemical Engineering and Chemical Technology 1961-75, Prof. Emer. and Sr. Research Fellow 1975-; Chair. Fire Research Board 1956-61, Science and Engineering Panel of British Council 1964-74; Pres. Council of Institut Solvay 1957-64, 1965-, Faraday Soc. 1963-65; Dir. Salters' Inst. of Industrial Chem. 1959-75; mem. Agric. Research Council 1966-75; Van't Hoff Memorial Lecturer, Royal Netherlands Acad.; mem. Pontifical Acad., Göttingen Acad.; Hon. Laureate (Padua Univ.); Dr. h.c. (Univ. Libre, Brussels); Hon. D.Sc. (Univ. of Belfast); Alfred Egerton Medal, Combustion Inst. 1971; Messel Medal, Soc. of Chemical Industry 1972; George Shakel Award, American Carbon Soc. 1975, Paul Lebeau Gold Medal, Société des Hautes Températures et Réfractaires 1975. *Publications:* Modern Thermodynamical Principles 1937, 2nd edn. 1952, Time and Thermodynamics 1947, Man and Energy 1954, 2nd edn. 1963, Graphite and its Crystal Compounds 1960, Melting and Crystal Structure 1965, The Molten State of Matter 1978; papers in proceedings and journals of scientific socs. *Leisure interest:* farming. *Address:* 48 Cottesmore Court, Stanford Road, London, W.8; Platt's Farm, Burwash, Sussex, England.

UCHIDA, Tsuneo; Japanese politician; b. 1907; ed. Tokyo Univ.; mem. House of Reps.; Dir. Property Custodian Bureau of Ministry of Finance; Parl. Vice-Minister for Int. Trade and Industry, subsequently for Science and Technology; Chair. House of Reps. Commerce and Industry Cttee.; Chair. Liberal-Democratic Party Tax System Research Council; Minister of Health and Welfare 1970-71; Dir. Econ. Planning Agency 1973-74; Sec.-Gen. of Liberal Democratic Party Sept.-Dec. 1976. *Address:* House of Representatives, Tokyo, Japan.

UDALL, Morris, LL.B.; American politician; b. 15 June 1922, St. Johns, Ariz.; s. of Levi S. and Louise (née Lee) Udall; m. Ella Royston 1968; three s. three d.; ed. Arizona Univ. and Law School; mem. Arizona Bar 1949-; Partner, Udall and Udall law firm, Tucson, Ariz. 1949-61; Chief Deputy County Attorney, Pima County 1953-54; Lecturer in Labour Law, Univ. of Ariz. 1955-56; mem. U.S. House of Reps. 1961-; Chair. Interior and Insular Affairs Cttee.; mem. Post Office and Civil Service Cttee.; Cand. for Democratic Presidential Nomination 1976; Legislative Conservation Award, Nat. Wildlife Fed. *Publications:* Arizona Law of Evidence 1960, The Job of the Congressman 1966, Education of a Congressman 1972. *Address:* 235 Cannon House Office Building, Washington, D.C. 20515, U.S.A. *Telephone:* (202) 225-4065.

UDALL, Stewart Lee; American politician; b. 31 Jan. 1920; ed. Univ. of Arizona; served U.S. Air Force, Second World War; admitted to Arizona Bar 1948, practised law, Tucson 1948-54, Washington 1969-; mem. House of Reps. 1955-61, mem. Interior and Insular Affairs Cttee., Labor and Education Cttee.; Sec. of the Interior 1961-69; Chair. of Board, Overview Group (int. consulting firm working to create a better environment for mankind) 1969-; Visiting Prof. in Environmental Humanism, Yale School of Forestry; Democrat. *Publications:* The Quiet Crisis 1963, Agenda For Tomorrow 1968, America's Natural Treasures 1971, The National Parks of America (with others) 1972, The Energy Balloon (co-author) 1974. *Address:* 1700 Pennsylvania Avenue, N.W., Washington D.C. 20006, U.S.A.

UDALTSOV, Ivan Ivanovich, CAND. SC.; Soviet historian; b. 12 March 1918; ed. Moscow State Univ. and U.S.S.R. Acad. of Sciences; took part in Second World War 1940-45; postgraduate student, scientific assoc., Inst. of Slavonic Studies, U.S.S.R. Acad. of Sciences; Head of Dept., mem. Editorial Board Voprosy istorii (Problems of History), Slavyane (Slavs), Novaya i noveishaya istoriya (Modern and Recent History) 1945-50; mem. staff CPSU Central Cttee. 1950-59, 1962-65; Dir., Inst. of Slavonic Studies, U.S.S.R. Acad. of Sciences 1959-62; diplomatic service 1965-70; Chair. of Board, Novosti Press Agency 1970-76; Alt. mem. CPSU Cen. Cttee. 1971-; Deputy to Supreme Soviet 1974-; Amb. to Greece 1978-; mem. Foreign Affairs Comm., Soviet of Nationalities; Order of Red Banner of Labour (twice), Badge of Honour, White Lion, Military Cross (Czechoslovakia), Order of Peoples' Friendship, and medals. *Publications:* The National Political Struggle in Bohemia 1848-51. *Address:* Soviet Embassy, 7 Odos Hirodou Atticou, Athens, Greece.

UDOMA, Sir (Egbert) Udo, LL.B., PH.D.; Nigerian lawyer; b. 21 June 1917, Ibekwe Ntanaran Akama Opobo, S.E. State; s. of Chief Udoma Inam and Adiaha Edem; m. Grace Bassey 1950; six s. one d.; ed. Methodist Coll., Uzuakoli, Trinity Coll., Dublin, Ireland, St. Catherine's Coll., Oxford; called to the Bar, Gray's Inn, London 1945; practised as barrister and solicitor, Supreme Court, Nigeria 1946-61; mem. House of Reps. 1952-59; Judge, Lagos High Court 1961-63; Chief Justice of Uganda 1963-69; Justice Supreme Court of Nigeria 1969-; Chair. Constituent Assembly Sept. 1977-; fmr. Chancellor Ahmadu Bello Univ.; Nat. Pres. Ibibio State Union 1947-63; mem. Nigeria Marketing Co. 1952-54; Man. Cttee. West Africa Inst. for Oil Palm Research 1953-63; Vice-Pres. Nigeria Bar Assn. 1957-61; mem. Int. Comm. of Jurists, World Assn. of Judges; Chair. Board of Trustees King George V Memorial Fund 1964-69; Patron Nigeria Soc. of Int. Law 1968-; awarded title of Obong Ikpa Isong Ibibio 1961; Hon. LL.D. Ibadan Univ. 1967, Ahmadu Bello Univ. 1972, Trinity Coll., Dublin 1973; C.F.R. (Nigeria) 1979. *Leisure interests:* billiards, gardening, walking. *Address:* Supreme Court, Lagos, Nigeria. *Telephone:* 630992.

UDOVICHENKO, Pyotr Platonovich; Soviet (Ukrainian) diplomatist and educationist; b. 1914; ed. Novomoskovsky Pedagogical Inst.; Prof. of History, Teachers Inst., Dneprodzerhinski 1934-39; Asst. to Minister, Head of Dept. of Political Affairs, Ministry of Foreign Affairs, Ukraine 1944-52; Pro-Rector, Kiev State Univ. 1952-58; Ukranian Perm. Rep. to UN 1958-61; teacher, Kiev State Univ. 1961-67; Minister of Educ. of Ukrainian S.S.R. 1967-. *Address:* Ministry of Education, Kiev, U.S.S.R.

UEKI, Dr. Shigeaki; Brazilian politician; b. 1935, São Paulo; ed. Pontifícia Univ. Católica de São Paulo; with private cos. until 1967; Adviser to Minister of Trade and Industry 1967-68; later Commercial Dir. PETROBAS, and mem. Council of Banco Nacional do Desenvolvimento Econômico; Minister of Mines and Energy 1974-79. *Address:* c/o Ministério das Minas e Energia, Esplanada dos Ministérios, Bloco J, Brasília, D.F. Brazil.

UFFEN, Robert James, PH.D., D.SC., P.ENG., F.R.S.C., F.G.S.A.; Canadian geophysicist; b. 21 Sept. 1923, Toronto, Ont.; s. of James Frederick Uffen and Elsie May (Harris) Uffen; m. Mary Ruth Paterson 1949; one s. one d.; ed. Univs. of Toronto, Western Ontario and California at Los Angeles; Lecturer, Univ. of Western Ont. 1951-53, Asst. Prof. of Physics and Geology 1953-57, Assoc. Prof. of Geophysics 1957-58, Prof. and Head of Dept. of Geophysics 1958-61, Acting Head Dept. Physics 1960-61; Principal, Univ. Coll. of Arts and Science, London, Ont. 1961-65; Dean, Coll. of Science, Univ. of Western Ont. 1965-66; Vice-Chair. Defence Research Board, Ottawa 1966-67, Chair. 1967-69; Chief Science Adviser to the Cabinet 1969-71; Dean, Faculty of Applied Science, Queen's Univ., Kingston, Ont. 1971-; Research Fellowship, Inst. of Geophysics, U.C.L.A. 1953; mem. Council of Regents Colls. of Applied Arts and Tech. 1966-69, 1973-76, Nat. Research Council of Canada 1963-66, Science Council of Canada 1967-71, Defence Council 1967-69; Dir. Canadian Patents and Devt. Ltd. 1965-70; mem. Club of Rome 1969-; Chair. Canadian Eng. Manpower Council 1973-74; Dir. Centre for Resource Studies 1974-, Ont. Hydro 1974-, (Vice-Chair. 1975-79); Councillor, Assn. of Professional Engineers of Ont. 1975-78; mem. Fisheries Research Board of Canada 1976-; Visiting Fellow, Univ. of Sussex 1977-78; Hon. D.Sc. (Queen's Univ., Univ.

of Western Ontario), (Royal Mil. Coll. of Canada) 1978. *Publications:* papers on geophysics, operations research, evolution, science policy and radioactive waste management. *Leisure interests:* painting, skiing, boating, old bottles. *Address:* 167 Fairway Hill Crescent, Kingston, Ont., Canada. *Telephone:* 613-546-4981.

UGUETO, Luis; Venezuelan international finance official; b. 24 Aug. 1936, Caracas; s. of Angel Ugueto and Maria Cristina Arismendi; m. Maria Otánez 1959; three s. one d.; ed. Universidad Católica "Andrés Bello", Caracas and London School of Economics; Resident Inspection Engineer, Ministry of Public Works 1958-62; Adviser Banco Central de Venezuela and Ministry of Finance, Caracas 1962-63; Exec. Aerovías Venezolanas, S.A., Caracas 1962-67; Exec. Dir. Banco de Comercio, Caracas 1966-69; mem. Board Public Admin. Comm., Caracas 1969-70; Dir.-Gen. Ministry of Finance 1969-70; Exec. Dir. IMF 1970-72; Sec. Caucus of Latin American and Philippines Govs. to the IMF and IBRD 1970-72; Minister Counsellor for Econ. Affairs, Venezuelan Embassy in Wash. D.C. 1971-74, Deputy Chief of Mission 1972-74; Exec. Dir. IBRD 1972-74, Deputy Cttee. of Twenty 1972-73; Pres. Banco Hipotecario de Aragua 1974-76; Adviser and mem. Board Banco de Venezuela 1974-; Counsellor, Andean Zone, Soc. Générale 1975-; Chair. Devt. Cttee. Universidad Metropolitana 1977-; Gen. Man. Seguros Orinoco 1978-. *Address:* c/o Seguros Orinoco, Apartado Postal 6448, Caracas, Venezuela. *Telephone:* 5613062.

UJFALUSSY, József, PH.D.; Hungarian musicologist; b. 13 Feb. 1920, Debrecen; s. of Dr. Géza Ujfalussy and Margit Mándy; ed. Debrecen Univ., Music Academy, Budapest; Secondary school teacher 1943-46; education organizer, Budapest 1946-48; Section Head, then Chief Dept. Leader Ministry of Culture 1949-55; Prof. of Aesthetics of Music and Theory of Music, Budapest Acad. of Music 1955-; Fellow Inst. of Musicology 1969; Fellow Hungarian Acad. of Sciences Bartók Archives 1961, Dir. 1973-; Corresp. mem. Hungarian Acad. of Sciences 1973-; mem. Hungarian UNESCO Cttee.; mem. Board Fed. of Hungarian Musical Artists; Erkel Prize 1961, Kossuth Prize 1966. *Publications:* Bartók breviárium 1958, (2nd edn. (with Vera Lamperth) 1974), Debussy 1959, A valóság zenei képe (The Musical Image of Reality) 1962, Béla Bartók Vols. I-II 1965 (3rd edn. 1976). *Address:* Csévi-utca 19b, H-1025 Budapest II, Hungary.

ULAM, Stanislaw Marcin, D.SC.; American scientist; b. 13 April 1909, Lwów, Poland (now Lvov, U.S.S.R.); s. of Joseph Ulam and Anna Auerbach; m. Françoise Aron 1941; one d.; came to U.S. on invitation of Inst. for Advanced Study, Princeton, N.J. 1936; mem. Soc. of Fellows and Lecturer, Harvard Univ. 1936-40; Asst. Prof. Univ. of Wisconsin 1941-43; Staff mem. and later Research Adviser, Los Alamos Scientific Laboratory, N.M. 1944-67, own Consultant; also Prof. Dept. of Mathematics, Univ. of Florida; Prof. Univ. of Colorado 1967-77; Visiting Prof., Harvard Univ., Mass. Inst. of Technology, Univ. of Colorado and Univ. of California at La Jolla; mem. Board of Govs. Weizmann Inst. of Science; mem. American Assen. for the Advancement of Science, American Acad. of Arts and Sciences, Nat. Acad. of Sciences, American Philosophical Soc.; Hon. D.Sc. (Univs. of New Mexico, Pittsburgh and Wisconsin); Sierpinski Medal; Polish Millennium Prize. *Publications:* A Collection of Mathematical Problems 1960, Mathematics and Logic (with M. Kac) 1968, Sets, Points, Universes 1974, Adventures of a Mathematician 1976; over 100 research papers in mathematics and physics. *Leisure interests:* chess, tennis. *Address:* c/o Mathematics Department, University of Florida, Gainesville, Fla. 32608; 1122 Old Santa Fé Trail, Santa Fé, N.M. 87501, U.S.A. (Home). *Telephone:* 983-1710 (Home).

ULANFU; Chinese (Inner Mongolian) party official; b. 1906, Suiyuan; ed. Mongolian-Tibetan School, Peking, Far Eastern Univ., Moscow; joined CCP 1925; Alt. mem. 7th Cen. Cttee. of CCP 1945; Chair. Inner Mongolia People's Govt. 1947-67; Commdr., Political Commissar Inner Mongolia Mil. Region, People's Liberation Army 1947-67; Vice-Premier, State Council 1954-; Chair. Nationalities Comm. 1954-67; First Sec. CCP Inner Mongolia 1954-67; Gen. 1955; Alt. mem. Politburo, CCP 1956-67; criticized and removed from office during Cultural Revolution 1967; mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. 1977; mem. Politburo; Perm. Chair. Presidium, Nat. People's Congress 1975-78; Vice Chair. Standing Cttee. 5th Nat. Peoples Congress 1978; Exec. Chair. Nat. Cttee. CPPCC 1978, Vice-Chair. 1978. *Address:* People's Republic of China.

ULANOVA, Galina Sergeyevna; Soviet Ballerina; b. 10 Jan. 1910; ed. Leningrad Choreographic School; debut in Kirov Theatre 1928, dancing the Chopin Suite (produced as Les Sylphides by Diaghilev Ballet); became star at the Kirov Theatre and then of the Bolshoi Ballet and danced many leading parts; has also made musical films including Etoiles du Ballet Russe shown at Int. Film Festival, Cannes 1954; now teaches ballet at Bolshoi Choreographic School; People's Artist of the U.S.S.R.; four State Prizes, Lenin Prize 1957. *Principal roles:* Odette-Odile (Swan Lake), Aurora (Sleeping Beauty), Masha (The Nutcracker), Giselle (Giselle), Maria (Bakhchisarai Fountain), Cinderella (Cinderella), Juliet (Romeo and Juliet), Parasha (The Copper Horseman), Tao Khoa (The Red Flower). *Publications:* Ballets soviétiques (The making of a ballerina). *Address:* State Academic Bolshoi Theatre, 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

ULLASTRES CALVO, Alberto, LL.D.; Spanish economic historian and politician; b. 1914, Madrid; s. of Emilio and Jesusa Ullastres Calvo; ed. Madrid Univ.; Capt. in Engineers (in reserve) of army; Prof. of Political Economy and Finance, Madrid Univ., Prof. of Econ. History, Leo XIII Inst.; Minister of Commerce 1957-65; Amb. to the European Communities 1965-77; mem. Acad. of Moral and Political Sciences; Great Crosses Carlos III, Isabel la Católica (Spain) and of Germany, Austria, Colombia, Paraguay, Argentina, Egypt, Mauritania. *Leisure interests:* metaphysics, gardening. *Address:* c/o Ministerio de Asuntos Exteriores, Madrid, Spain.

ULLENDORFF, Edward, D.PHIL., F.B.A.; British university professor; b. 25 Jan. 1920; s. of Frederic and Cilli Ullendorff; m. Dina Noack 1943; ed. Univs. of Jerusalem and Oxford; war service in Eritrea and Ethiopia 1941-46; Asst. Sec., Govt. of Palestine 1946-47; Research Officer, Oxford Univ. Inst. of Colonial Studies 1948-49; Lecturer, later Reader, in Semitic Languages, St. Andrews Univ. 1950-59; Prof. of Semitic Languages, Manchester Univ. 1959-64; Prof. of Ethiopian Studies, London Univ. 1964-, of Semitic Languages 1979-, Head of Africa Dept., School of Oriental and African Studies (SOAS) 1972-77; Chair. Assen. of British Orientalists 1963-64, Anglo-Ethiopian Soc. 1965-68, Editorial Board of Bulletin of SOAS 1968-78; Schweich Lecturer, British Acad. 1967; Pres. Soc. for Old Testament Study 1971; Vice-Pres. Royal Asiatic Soc. 1975-; Fellow, British Acad. 1965-; Haile Sellassie Prize for Ethiopian Studies 1972; Hon. D.Litt. (St. Andrews Univ.).; *Publications:* Exploration and Study of Abyssinia 1945, Catalogues of Ethiopic MSS in the Bodleian Library 1951, the Royal Library, Windsor Castle 1953, Cambridge Univ. Library 1961; The Semitic Languages of Ethiopia 1955, The Ethiopians 1960, 3rd edn. 1973, Comparative Grammar of the Semitic Languages 1964, An Amharic Chrestomathy 1965, Ethiopia and the Bible 1968, Solomon and Sheba 1974, translated and annotated Emperor Haile Sellassie's autobiography 1976, Studies in Semitic Languages and Civilizations 1977, The Ethiopic Enoch (with M. A. Knibb, 2 vols.) 1978, The Amharic Letters of Emperor Theodore to Queen Victoria 1979, The Bawdy Bible and others; articles and reviews in journals of learned socs. *Leisure interests:* music, motoring in Scotland. *Address:* School of Oriental and African Studies, London University, London, W.C.1; The Athenaeum, Pall Mall, London, England. *Telephone:* 01-637 2388 (Office).

ULLMAN, Albert Conrad, M.A.; American politician; b. 9 March 1914, Great Falls, Mont.; s. of Albert C. and Julia (Miller) Ullman; m. 1st Anita W. Curfman (divorced), two s. one d.; m. 2nd Audrey K. Manuel 1972, one s.; ed. Whitman Coll., Walla Walla, Wash. Columbia Univ., New York; teacher of history and government, Port Angeles High School, Wash. 1935-37; mil. service U.S. Navy 1942-45; builder and real estate broker, Baker, Oregon 1945-57; mem. House of Reps. from 2nd District, Oregon 1956-; mem. House Cttee. on Interior and Insular Affairs 1957-61, Cttee. on Ways and Means 1961-, Acting Chair. 1973-74, Chair. Jan. 1975-; Co-Chair. Joint Study Cttee. on Budget 1973-, First Chair. 1974-75; Alt. Chair Joint Cttee. on Taxation 1975-; fmr. mem. Advisory Comm. on Inter-governmental Relations and Nat. Outdoor Recreational Review Comm.; responsible for legislation to improve the use of natural resources, to protect environment, to provide Nat. Health care and reform welfare programmes, to reform tax system. *Address:* 1136 Longworth Office Building, Washington D.C. 20515; Baker, Or. 97814, U.S.A. (Home).

ULLMANN, Liv Johanne; Norwegian actress; b. 16 Dec. 1938, Tokyo, Japan; d. of late Viggo Ullmann and of Janna (Lund) Ullmann; m. Dr. Gappe Stang 1960 (dissolved 1965); one d.; worked in repertory company, Stavanger 1956-59; has appeared at Nat. Theatre and Norwegian State Theatre, Oslo; Best Actress of the Year, Nat. Soc. of Critics in America 1969, 1970, 1974; N.Y. Film Critics Award 1973, 1974; Hollywood Foreign Press Assen.'s Golden Globe 1973; Best Actress of the Year, Swedish T.V. 1973, 1974; Donatello Award (Italy) 1975; Bambi Award (Fed. Repub. of Germany) 1975; nominated for Tony Award ■ Best Stage Actress, debut on Broadway in The Doll's House 1975; Los Angeles Film Critics' Award (Face to Face) 1976; New York Film Critics' Award

(Face to Face) 1977; Nat. Board of Review of Motion Pictures Award (Face to Face) 1977. *Films include:* Pan 1965, Persona 1966, The Hour of the Wolf 1968, Shame 1968, The Passion of Anna 1969, The Night Visitor 1971, The Emigrants 1972, Cries and Whispers 1972, Pope Joan 1972, Lost Horizon 1973, 40 Carats 1973, The New Land 1973, Zandy's Bride 1973, Scenes from a Marriage 1974, The Abdication 1974, Face to Face 1975, The Serpent's Egg 1978, Sonate d'autonne 1978. *Plays include:* Brand 1973, The Doll's House 1975; The Six Faces of Women (TV). *Publications:* Changing 1976. *Address:* Hafrsfjordgate 7, Oslo, Norway.

ULLSTEN, Ola; Swedish politician; b. 23 June 1931, Umeå; s. of C. A. and Stina Ullsten; m. Evi Esko 1961; graduated in social sciences 1956; Sec. Parl. Group Liberal Party 1957-61; journalist Dagens Nyheter 1962-64; mem. Riksdag (Parl.) 1965-; Chair. Liberal Party Stockholm County 1972-76; Minister of Int. Econ. Cooperation Oct. 1976-; Deputy Prime Minister March-Oct. 1978, Prime Minister Oct 1978-; Chair. Liberal Party March 1978-. *Address:* c/o Folkpartiet, P.O. Box 6508, 111 83 Stockholm, Sweden.

ULRICH, Franz Heinrich; German business executive; b. 6 July 1910, Düsseldorf; ed. German Univs.; Chair. Supervisory Board, Deutsche Bank AG, Mannesmann AG, Düsseldorf, C. Deilmann AG, Bentheim, Deutsche Gesellschaft für wirtschaftliche Zusammenarbeit (Entwicklungsgesellschaft) mbH, Cologne; Deputy Chair. or mem. Supervisory Board; several major cos., Dir. Texaco Inc., New York. *Address:* Deutsche Bank AG, 4000 Düsseldorf, Königsallee 45-47, Federal Republic of Germany.

ULRICHSEN, Wilhelm, M.SC.; Danish diplomatist; b. 10 Feb. 1924, Copenhagen; s. of Rudolph and Carla Ulrichsen (née Petersen); m. Ellen Margrethe Knudsen 1948; one s. two d.; ed. Univ. of Copenhagen; Sec. Ministry of Foreign Affairs, Copenhagen 1948-54; Danish Embassy, Madrid 1954-58; Head of Section, Ministry of Foreign Affairs 1958-60; Counsellor, Chargé d'Affaires, Danish Embassy, Caracas, Venezuela 1960-61; Consul and Commercial Counsellor, Danish Consulate Gen., New York 1961-64; Head of Div., Dept. for Econ.-Political Relations, Ministry of Foreign Affairs 1964-69; Head of Danish Del. to UN Conf. on Trade and Devt., New Delhi, India 1968; Deputy Under-Sec. Danish Int. Devt. Agency (DANIDA) 1969-72, Under-Sec. 1972-77; Perm. Rep. to UN, New York Sept. 1977-; Gov. Asian Devt. Bank 1973-77, African Devt. Fund 1973-77, Inter-American Devt. Bank 1976-77, Order of the Icelandic Falcon, Order of Isabel la Católica (Spain). *Address:* Permanent Mission of Denmark to the United Nations, 235 East 42nd Street, 32nd Floor, New York, N.Y. 10017; 34 Sunnybrook Road, Bronxville, N.Y. 10708, U.S.A. (Home). *Telephone:* (212) 867-1530; (914) 337-6404 (Home).

ULVESETH, Ingvald Johan; Norwegian politician; b. 25 Aug. 1924, Fjell, Hordaland; ed. Norwegian Inst. of Technology; Consultant Construction Engineer, Bergen 1949-52; Municipal Engineer, Fjell 1952-61; mem. Fjell Municipal Council and Exec. Cttee. 1956-67, Mayor 1958-65; with Brodrene Ulveseth, Bergen 1961-65; Under-Sec. of State, Ministry of Local Govt. and Labour 1964-65; mem. Storting (Parl. 1965-73; Chair. Man. Board Bergens Arbeiderblad 1968; Deputy Chair. Standing Cttee. on Industry 1969-73; mem. Board Norsk Hydro 1970-73; Gov. Sogn and Fjordane 1971-73; Minister of Industry 1973-76; Dir. and fmr. Dir. of numerous cos; Labour. *Address:* c/o Storting, Oslo, Norway.

UMBA DI LUTETE; Zairian diplomatist and former government official; b. (as Jean-Théodore Umba-di-Lutete) 30 June 1939, Kangu; m.; five c.; ed. Univ. of Lovanium, Univ. Libre de Bruxelles, Belgium; training with U.S. Agency for Int. Devt. and with Belgian Parl. and Foreign Ministry; taught at Univ. of Lovanium; Minister at the Presidency 1969-70, of Energy 1970-71, of Mining 1971-74; State Commr. for Foreign Affairs 1974-75, for Politics 1975-76, for State Affairs, Foreign Affairs and Int. Co-operation 1977-79, for Nat. Guidance, Culture and the Arts March 1979-; mem. Political Bureau of Mouvement populaire de la révolution (MPR), also MPR Perm. Cttee.; Perm. Rep. to UN 1976-77; fmr. leader of dels. to UN Gen. Assembly and Security Council, to OAU, OCAM, UNCTAD. *Address:* Ministry for National Guidance, Culture and the Arts, Kinshasa, Zaire.

UMBA KYAMITALA, M.SC.; Zairian mining executive; b. 20 Feb. 1937, Elisabethville (now Lubumbashi); s. of Ngoie Mbuluku and Mwamba Kima; m. Ngoie Ya Kachina 1961; two s. one d.; ed. Nat. Univ. of Zaire and U.S.A.; employed in mine at Kipushi, La Générale des Carrières et Mines du Zaïre (Gécamines) 1967, Planning and Admin. of Mines and Quarries 1969, Dir. of Mines and Quarries 1972, Gen. Man. Nov. 1973-; Pres. Nat. Asscn. of Zairian Enterprises 1977-; mem. American Asscn. of Mining Engineers and Metallurgists; major projects: sub-level excavation in Northwest Massif 1967; application of machinery to opencast mining. *Leisure interest:* swimming. *Address:* Gécamines, B.P. 450, Lubumbashi, Zaire. *Telephone:* 91-105.

UMRI, Gen. Hassan; Yemen Republican politician; took part in revolution against Imamate 1962, Minister of Transport Sept.-Oct. 1962, of Communications 1962-63; mem. Council of Revolutionary Command 1962-63; Vice-Pres. of Yemen 1963-66; mem. Political Bureau 1963-66; Prime Minister Jan.-April 1965, 1965-66, 1967-68; Mil. Gov.-Gen. of Yemen 1968-69; also C.-in-C. of Army; Prime Minister Aug.-Sept. 1971; in exile in Lebanon until Jan. 1975; returned to Yemen A. R. Jan. 1975.

UNDERWOOD, Benton J., PH.D.; American psychologist; b. 28 Feb. 1915, Center Point, Iowa; s. of Willie B. and Blanche C. Underwood; m. Hazel Louise Olson 1939; two d.; ed. Cornell Coll., Univ. of Missouri and State Univ. of Iowa; Public School Teacher 1936-39; U.S. Navy 1942-46; Asst. Prof. Northwestern Univ. 1946-48, Assoc. Prof. 1948-52, Prof. 1952-, Chair. Dept. of Psychology 1967-70; mem. Nat. Acad. of Sciences; Warren Medal (Soc. of Experimental Psychologists) 1964; Hon. D.Sc. (Cornell Coll.); Distinguished scientific contribution award, American Psychological Assn. 1973. *Publications:* Experimental Psychology 1949 (revised edn. 1966), Psychological Research 1957, Meaningfulness and Verbal Learning 1960, Experimentation in Psychology (with J. J. Shaughnessy) 1975, Temporal Codes for Memories: Issues and Problems. *Address:* Department of Psychology, Northwestern University, Evanston, Ill. 60201; 1745 Stevens Drive, Glenview, Ill. 60025, U.S.A. (Home). *Telephone:* 492-5190 (Office); PA-4-3063 (Home).

UNDERWOOD, Cecil H., LL.D.; American politician and businessman; b. 5 Nov. 1922; ed. Salem Coll., West Virginia Univ.; U.S. Army Reserve Corps 1942-43; high-school teacher 1943-46; mem. staff Marietta Coll. 1946-50; Vice-Pres. Salem Coll. 1950-56; mem. West Virginia House of Delegates 1944-56 and Minority Floor Leader 1949-54; Gov. of West Virginia 1957-61; Temporary Chair. Republican Nat. Convention 1960; Vice-Pres. Island Creek Coal Co. 1961-64; Dir. Civic Affairs, Northeastern Region, Monsanto Co. 1965-66; Vice-Pres. Govt. and Civic Affairs, Monsanto Co., Washington, D.C. 1967; Pres. Fanswood Inc., Huntingdon 1968-; Pres. Cecil H. Underwood Asscns. 1965-; field underwriter New York Life Insurance Co. 1976-; Pres. Bethany Coll. 1972; mem. Governing Council, Nat. Municipal League 1966-; eight hon. degrees. *Address:* P.O. Box 6273, Wheeling, Va. 26003, U.S.A.

UNDERWOOD, Eric John, A.O., C.B.E., PH.D., F.R.S.; Australian professor of agriculture; b. 7 Sept. 1905, London, England; s. of James Underwood and Elizabeth (née Lowe) Underwood; m. Erica Reid Chandler 1934; two s. two d.; ed. Univs. of Western Australia, Cambridge and Wisconsin; Research Officer in Animal Nutrition, Dept. of Agric., Western Australia 1932-45; Hackett Prof. of Agric. and Dir. Inst. of Agric., Univ. of W. Australia 1946-70, Hon. Research Fellow 1971-79; mem. of Exec. Commonwealth Scientific and Industrial Org. 1966-75; Contennial Prof. of Nutrition Univ. of Calif. 1968; Pres. Australian and New Zealand Assn. for the Advancement of Science 1973; Harkness Fellow, Commonwealth Fund of New York 1936; F.A.A., F.T.S., F.A.I.A.S., F.A.S.A.P., F.A.C. Vet Sc.; Hon. mem. American Inst. of Nutrition, Royal Agricultural Soc. of England; Hon. D.Rur.Sci. (Univ. of New England); Hon. D.Sc.Agric. (Univ. of W. Australia); Hon. D.Agric.Sci. (Univ. of Melbourne); Medal of Australian Inst. of Agricultural Science 1951, Kelvin Medal of Royal Soc. of W. Australia 1959, Farrer Memorial Medal 1967; Burnett Medal, Australian Acad. of Science 1973; ANZAAS Medal 1976. *Publications:* Principles of Animal Production 1946, Trace Elements in Human and Animal Nutrition 1956, 4th edn. 1977, The Mineral Nutrition of Livestock (FAO/CAB) 1966; and approx. 150 research papers and reviews. *Leisure interests:* reading, gardening. *Address:* Department of Animal Science, University of Western Australia, Nedlands, W.A. 6009; 3 Cooper Street, Nedlands, W. Australia. *Telephone:* 380-2521 (Office); 386-2620 (Home).

UNGER, Leonard, A.B.; American diplomatist; b. 17 Dec. 1917, San Diego, Calif.; s. of Louis Allen and Rachel Seidman Unger; m. Anne Axon Unger 1944; three s. two d.; ed. Harvard Univ.; Nat. Resources Planning Board 1939-41; Dept. of State 1941-, served Trieste, Naples; Officer in Charge of Politico-Military Affairs, European Regional Affairs Div., State Dept. 1953-57; Dep. Chief of Mission, American Embassy, Bangkok, Thailand 1958-62; Ambassador to Laos 1962-64; Deputy Asst. Sec. of State for Far Eastern Affairs 1965-67; Amb. to Thailand 1967-74, to Taiwan 1974-78. *Leisure interests:* music, gardening, reading, tennis. *Address:* 12701 Circle Drive, Rockville, Md. 20850, U.S.A. (Home).

UNGERER, Paul; German merchant and company executive; b. 12 March 1912, Frankfurt am Main: s. of Friedrich Ungerer and Katharina Brenner; m. Leyda Pezzini 1941 (died 1977); one s.; ed. mercantile apprenticeship; joined DEGUSSA ■ apprentice in Precious Metals Dept. 1930, specialist training in all depts. and subsidiaries 1934, del. to DEGUSSA Agent in Shanghai 1935, Man. of DEGUSSA Office in Shanghai 1940, of Branch Office in Hamburg 1949, Head of Carbon Black and Pigments Div., Frankfurt 1954, Deputy Vice-Pres. of Exec. Board 1961, Pres. 1973-77, mem. Supervisory Board 1977-, Heidelberger Zement AG, Heidelberg, Babcock-BSH AG, Krefeld-Uerdingen, Dunlop Aktienges Hanau am Main, Deutsche ICI GmbH, Frankfurt am Main, Österreichische Chemische Werke Gesellschaft mbH Vienna. *Leisure interests:* music, fine arts in general, travelling. *Address:* c/o DEGUSSA, Weissfrauenstrasse 9, 6000 Frankfurt I, Federal Republic of Germany. *Telephone:* 0611 2182290.

UNO, Sosuke; Japanese politician; b. 1922; elected six times to House of Reps.; Parl. Vice-Minister of Int. Trade and Industry; Deputy Sec.-Gen. of Liberal Democratic Party (LDP); Minister of State, Dir.-Gen. of Defence Agency Nov.-Dec. 1974; Chair. Diet Policy Cttee. of LDP 1974-76; assoc. of Yasuhiro Nakasone (*q.v.*); Minister of State, Dir.-Gen. of Science and Technology Agency, Chair. Atomic Energy Comm. 1976-77. *Address:* c/o Science and Technology Agency, Tokyo, Japan.

UNSÖLD, Albrecht Otto Johannes, DR.PHIL.; German physicist; b. 20 April 1905, Bolheim, Württemberg; s. of Johannes Unsöld and Clara Müller; m. Dr. Liselotte Kühnert 1934; three s. one d.; ed. Univs. of Tübingen and Munich; Asst. Inst. of Theoretical Physics, Univ. of Munich 1927; Fellow, Int. Educ. Board 1928; Lecturer, Univ. of Munich 1929, Univ. of Hamburg 1930; Prof. of Theoretical Physics, Dir. Inst. of Theoretical Physics and Observatory, Univ. of Kiel 1932-73; Corresp. mem. Bavarian Acad. of Sciences, Göttingen Acad. of Sciences; Assoc. Royal Astronomical Soc., London; Hon. mem. Royal Astronomical Soc. of Canada; Foreign mem. Provinciaal Utrechts Genootschap van Kunsten en Wetenschappen, Utrecht 1961; mem. Int. Acad. of Astronautics, Paris 1961, Deutsche Akademie der Naturforscher Leopoldina, Halle 1962, Kungliga Fysiografiska Sällskapet i Lund 1965; Fellow, American Assn. for Advancement of Science 1968; Dr.Rer.Nat. h.c. (Utrecht State Univ.) 1961, (Univ. of Munich) 1972; (Univ. Medal Liège) 1969; Hon. D.Sc. (Edinburgh) 1970; Copernicus Prize 1943, Catherine Wolfe Bruce Gold Medal Astronomical Soc. of the Pacific 1956; Gold Medal of Royal Astronomical Soc. 1957, Cothenius Gold Medal, Deutsche Akad. der Naturforscher Leopoldina 1973. *Publications:* Physik der Sternatmosphären 1938 (2nd edn. 1955), Der neue Kosmos 1967 (translations into English, Italian, Japanese 1968), 2nd edn. 1974 (translations into English, Japanese, Spanish 1977), Sterne und Menschen (essays and lectures) 1972. *Leisure interests:* painting, music. *Address:* Sternwartenweg 17, Kiel 23, Federal Republic of Germany. *Telephone:* 84205.

UPADHYAY, Shailendra Kumar; Nepalese diplomatist; b. 13 Sept. 1929, India; s. of Gopal Prasad Upadhyay and Uma Devi Upadhyay; m. 1st Sharmistha Upadhyay, 2nd Beena Sharma; three s. one d.; ed. Benares Hindu Univ.; Founder mem. Communist Party of Nepal 1950, mem. Cen. Cttee. and Political Bureau 1950-56; Founder Progressive Communist Party of Nepal 1958; Asst. Minister for Forests, Food and Agric. 1962-64; Minister in charge of Panchayat 1965; mem. Nat. Panchayat 1963-71; Vice-Chair. Nat. Planning Comm. 1969; Minister for Home and Panchayat and Minister for Land Reforms and Information 1970-71; Perm. Rep. to UN 1972-78; Amb. to Argentina, Chile, Peru and Brazil 1977-78; Amb. (designate) to Cuba. *Leisure interests:* reading, riding, trekking, painting, golf. *Address:* 5/108 Jawala Khel, Lalitpur, Kathmandu, Nepal. *Telephone:* 21587.

UPDIKE, John Hoyer, A.B.; American writer; b. 18 March 1932; ed. Shillington High School, Pennsylvania, and Harvard Coll., Reporter on the magazine New Yorker 1955-57; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Sciences; Rosenthal Award, Nat. Inst. of Arts and Letters 1960; O'Henry Story Award 1967. *Publications:* The Carpentered Hen (poems) 1958, The Poorhouse Fair (novel) 1959, The Same Door (short stories) 1959, Rabbit, Run (novel) 1960, Pigeon Feathers and Other Stories 1962, The Centaur (novel) 1963, Telephone Poles and Other Poems 1963, Assorted Prose 1965, Of the Farm (novel) 1965, The Music School (short stories) 1966, Couples (novel), Midpoint and other poems 1969, Bech: A Book 1970, Rabbit Redux 1972, Museums and Women and Other Stories 1972, Buchanon Dying (novel) 1974, A Month of Sundays (novel) 1975, Picked-up Pieces 1976, Marry Me (novel) 1976, The Coup (novel) 1978, Tossing and Turning (poems) 1978. *Address:* Labor-in-Vain Road, Ipswich, Mass. 01938, U.S.A.

UQUAILI, Nabi Baksh Mohammed Sidiq, F.C.A.; Pakistani chartered accountant and banker; b. 11 Aug. 1913, Karachi; m. 1947; one s. one d.; over 35 years' experience in commercial banking, central banking, industrial and investment banking; Minister of Finance of Pakistan 1966-69; Chair. Board of Dirs. Pakistan Industrial Credit and Investment Corpn. Ltd. (PICIC); also Chair. of Board of several industrial and financial enterprises in Pakistan. *Leisure interests:* reading, gardening. *Address:* 22 F Dawood Colony, Stadium Road, Karachi-5, Pakistan. *Telephone:* 225626 (Office); 411013 (Home).

URABE, Shizutaro; Japanese architect; b. 31 March 1909; ed. Kyoto Univ.; Kurashiki Rayon Co. Ltd. 1934-64; Lecturer (part-time) in Architecture, Osaka Univ. Technical Course 1954-55; Lecturer (part-time) in Architecture, Kyoto Univ. Technical Course 1962-66; Pres. K.K., S. Urabe & Assoc. Architects 1962-; Prize of Mainichi Shuppan Bunka Sho (publication) 1961; Osaka Prefecture Architectural Contest Prize 1962; Annual of Architecture Prize 1963; Architectural Inst. of Japan Prize 1964, Osaka Prefecture Order of Merit 1965. *Buildings include:* Ohara Museum (Annex) 1961, Suita Service Area 1963 and other offices of Japan Road Corpn. 1965, Kurashiki Int. Hotel 1963, Aizenbashi Hospital and Nursery School etc. 1965, Asahi Broadcasting Co. Ltd. (consultant) 1966, Tokyo Zokei Univ. 1966, Tokyo Women's Christian Coll., Research Inst. 1967. *Address:* S. Urabe and Assoc. Architects, 7th Floor, New Hankyu Building, 8, Umeda, Kita-ku, Osaka (Office); Z-4 Muromachi Nihonbashi Building, Chuo-ku, Tokyo (Office); 1-181, Kotoen, Nishinomiya Hyogo, Japan (Home).

URBANIK, Kazimierz, D.SC.; Polish mathematician; b. 5 Feb. 1930, Krzemieniec; s. of Augustyn and Rozalia Urbanik; m. Stefania Przyborowska-Urbanik 1952; two c.; ed. Wrocław Univ.; Docent 1957-60, Assoc. Prof. 1960-64, Prof. 1964-; Corresp. mem. Polish Acad. of Sciences (PAN) 1965-73; mem. 1973-, now mem. Presidium of PAN, Chair. Wrocław branch of PAN and mem. Scientific Council of Mathematical Inst.; Dir. Mathematical Inst. of Wrocław Univ. 1967-, Rector Wrocław Univ. 1975-; mem. Editorial Staff, Studia Mathematica, Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete, Journal of Multivariant Analysis; mem. many Polish and foreign socs.; Knight's and Officer's Crosses, Order of Polonia Restituta, Prize of Polish Mathematical Soc., State Prize, 2nd Class 1964, City of Wrocław Prize 1970, Order of Banner of Labour, 2nd Class 1974, Medal of 30th Anniversary of People's Poland 1974, State Prize (1st class) 1978. *Publications:* over 130, mainly concerned with the theory of probability, achievements in prediction theory, generalized processes and universal algebras. *Leisure interests:* tourism, motoring, cooking secrets of various nations. *Address:* Ul. Stefczyka 8, 51-662 Wrocław, Poland.

UREN, Thomas; Australian politician; b. 28 May 1921, Balmain, Sydney; served with Royal Australian Artillery 1939, 2nd Australian Imperial Force 1941, in Changi prisoner-of-war camp 1942-45; mem. Parl. for Reid 1958-; mem. Fed. Parl. Labor Party Exec. 1969-, Deputy Leader Jan. 1976-; First Minister of Urban and Regional Devt. 1972-75; del. to Australasian Area Conf. of Commonwealth Parl. Assn., Darwin 1968, to Australian Parl. Mission to Europe 1968, to Commonwealth Parl. Assn. Conf., Canberra 1970; Labor Party. *Address:* Parliament House, Canberra, A.C.T., Australia.

UREY, Harold Clayton, PH.D., D.SC.; American chemist; b. 29 April 1893, Walkerton, Ind.; s. of Samuel Clayton Urey and Cora Rebecca Reinoehl; m. Frieda Daum Urey 1926; one s. three d.; ed. Univs. of Montana and California; Research chemist, Barrett Chemical Co. 1918-19; Instructor, Univ. of Montana 1919-21; American-Scandinavian Foundation Fellow, Copenhagen 1923-24; Assoc. in Chem., Johns Hopkins Univ. 1924-29; Assoc. Prof. Columbia Univ. 1929-34, Prof. 1934-45; Dir. of War Research, SAM Laboratories 1940-45; Distinguished Service Prof. of Chem., The Enrico Fermi Inst. for Nuclear Studies, Univ. of Chicago 1945-52, Martin A. Ryerson Prof. 1952-58; Visiting Prof., Oxford 1956-57; Prof. Chemistry-at-large, Univ. of Calif. 1958-70, Univ. Prof. Emer. 1970-; Visiting Prof., U.K. 1971; mem. Nat. Acad. of Sciences, etc.; Foreign mem. Royal Soc. (London), and Swedish, Belgian, Irish, Indian and American Scientific Socs.; Hon. D.Sc. (Princeton, Montana, Newark, Columbia, Oxford, Washington and Lee, Michigan, Athens, Yale, MacMaster, Indiana, Durham, Birmingham, Saskatchewan, Pittsburgh, Chicago, Manchester, Israel Inst. of Technology, Franklin & Marshall Coll. and Gustavus Adolphus Coll.); Hon. LL.D. (Calif., Wayne, Notre Dame Univs.); D.Hum. (Hebrew Union Coll.); many awards and prizes including Nobel Prize for Chem. 1934, Willard Gibbs Medal (American Chemical Soc.) 1934, Davy Medal (Royal Soc., London) 1940, Franklin Medal 1943, Medal for Merit 1946, Cordoza Award 1954, Nat. Medal for Sciences 1964, American Acad. Achievement Award 1966, Linus Pauling Award 1970, NASA Scientific Achievement Award 1973, V. M.

Goldschmidt Medal, Geochemical Soc. (Utah) 1975. *Publications:* Atoms, Molecules and Quanta (with A. E. Ruark) 1930, The Planets 1952. *Leisure interests:* gardening, raising of orchids. *Address:* Revelle College, University of California, San Diego, La Jolla, Calif. 92037; 7890 Torrey Lane, La Jolla, Calif. 92037, U.S.A. (Home). *Telephone:* 453-2000-1451 (Office); 714-454-1640 (Home).

ÜRGÜPLÜ, Ali Suat Hayri; Turkish politician; b. 1903, Damascus, Syria; m.; one s.; ed. Lycée Galatasaray, Istanbul, and Univ. of Istanbul; Turkish Sec., Mixed Courts of Arbitration 1926-29; Magistrate Supreme Commercial Court, Istanbul 1929-32; in private legal practice 1932-39; mem. Turkish Nat. Assembly 1939-46; Minister of Customs and Monopolies 1943-46; resigned and left People's Party 1946; re-elected to Grand Nat. Assembly 1950 and joined Democratic Party; mem. and Vice-Chair. Council of Europe 1950-52; Amb. to Fed. Repub. of Germany 1952-55, to U.K. 1955-57, to U.S.A. 1957-60, to Spain 1960; Senator (Independent) 1961-63, (Presidential Appointee) 1966-; Speaker of Senate 1961-63; Prime Minister Feb.-Oct. 1965; Prime Minister designate April-May 1972. *Address:* Sahil Cad 19, Yesilyurt, Istanbul, Turkey.

URI, Pierre Emmanuel; French professor and economic consultant; b. 20 Nov. 1911, Paris; s. of Isaac Uri and Hélène Kahn; m. Monique Blanchetière 1939; two s. two d.; ed. Lycée Henri IV, Ecole Normale Supérieure and Princeton Univ.; Prof. of Philosophy 1936-40; Research Economist 1944-47; Econ. and Financial Adviser to French Planning Comm. 1947-52; Prof. Nat. School of Public Admin. 1947-51; Econ. Dir. European Coal and Steel Community (ECSC) 1952-59, Econ. Adviser, Common Market 1958-59; European Rep., Lehman Brothers 1959-61; Econ. Consultant, particularly Counsellor for Studies, Atlantic Inst. 1962-; Chair. Experts' Group on Long Term Development in European Economic Community 1960-64; Chair. Experts' Group on Competitive Capacity of the European Community 1968-70; Prof., Univ. Paris IX 1969-76; Vice-Chair. UN Group on Multinational Corpns. 1973-74; mem. French Econ. and Social Council 1974-; Chevalier de la Légion d'honneur, Croix de guerre, etc. *Publications:* La réforme de l'enseignement 1937, Le fonds monétaire international 1945, French National Economic Budgets 1947-48, Report of French Delegation on Treaty of Paris Instituting the Coal and Steel Community 1951, Report of the Inter-Governmental Committee on the Common Market and Euratom 1956, Report on the Economic Situation of the European Community Countries 1958, Dialogue des Continents 1963, Une politique monétaire pour L'Amérique Latine 1965, Pour gouverner 1967, From Commonwealth to Common Market 1968, Un avenir pour L'Europe agricole 1971, Trade and Investment Policies for the '70's 1971, Plan quinquennal pour une révolution 1973, L'Europe se gaspille 1973, Développement sans dépendance 1974, Report on the Introduction of a Capital Gains Tax in France 1975. *Leisure interests:* theatre-going, travelling. *Address:* 1 avenue du Président Wilson, 75116 Paris, France. *Telephone:* 723-97-42.

URIS, Leon Marcus; American writer; b. 3 Aug. 1924; m. 1st Betty Beck 1945, two s. one d.; m. 2nd Jill Peabody; ed. High School; served with the U.S. Marine Corps 1942-45. *Publications:* Battle Cry 1953 (novel and screenplay), The Angry Hills 1955, Exodus 1957, Mila 18 1960, Gunfight at the OK Corral (screenplay), Armageddon 1964, Topaz 1967, QB VII 1970, Trinity 1976, Ireland: A Terrible Beauty (with Jill Uris) 1976; with others Exodus Revisited (Photo essay) 1959. *Address:* c/o Doubleday Publishing Co., Inc., Garden City, N.Y. 11530, U.S.A.

URQUHART, Brian E.; British United Nations official; b. 19 Feb. 1919, Bridport, Dorset; s. of Murray Urquhart and Bertha (née Rendall); m. 1st Alfreda Huntington 1944 (dissolved 1963), two s. one d.; m. 2nd Sidney Howard 1963, one s. one d.; ed. Westminster School and Christ Church, Oxford; Army service 1939-45; Personal Asst. to Exec. Sec. of Preparatory Comm. of UN. London 1945-46; Personal Asst. to Trygve Lie, First Sec.-Gen. of UN 1946-49; has served in Office of UN Sec.-Gen. since 1949; served in various capacities relating to peace-keeping operations in Office of UN Under-Sec.-Gen. for Special Politicial Affairs 1954-71; Exec. Sec. 1st and 2nd UN Int. Confs. on Peaceful Uses of Atomic Energy 1955, 1958; Deputy Exec. Sec. Preparatory Comm. of IAEA 1957; Asst. to Sec.-Gen.'s Special Rep. in the Congo July-Oct. 1960; UN Rep. in Katanga, Congo, 1961-62; Asst. Sec.-Gen. UN 1972-74; Under-Sec.-Gen. for Special Political Affairs UN Feb. 1974-. *Publication:* Hammarskjöld 1973. *Address:* 131 East 66th Street, New York, N.Y. 10021, U.S.A.

URSI, H.E. Cardinal Corrado; Italian ecclesiastic; b. 26 July 1908; s. of Riccardo Ursi and Apollonia Sterlicchio; ordained Priest 1931; Bishop of Nardo 1951, Archbishop of Acorensa 1961, Archbishop of Naples 1966-; created Cardinal by Pope Paul VI 1967. *Address:* Largo Donnaregina 23-80134, Naples, Italy. *Telephone:* 449118.

URSU, Ioan, PH.D.; Romanian physicist; b. 5 April 1928, Mânăstireni, Cluj; s. of Ioan Ursu and Ana Abrudan; m. Lucia Flămându 1930; two s. one d.; ed. Univ. of Cluj and Univ. of Princeton, U.S.A.; Asst. Prof., Univ. of Cluj 1949, Prof. and Head of Dept. 1960, Vice-Rector 1961; Prof. and Head of Dept., Univ. of Bucharest 1968-; Dir.-Gen., Inst. for Atomic Physics 1968-76; Pres. State Cttee. for Nuclear Energy 1969-76, Nat. Council for Science and Tech. 1972; Corresp. mem. Romanian Acad. 1963, mem. 1974; mem. Scientific Council of the Joint Inst. for Nuclear Research, Dubna, Board of Govs. IAEA 1971, Vice-Pres. 1972; mem. Exec. Council, European Physical Soc. 1968, Vice-Pres. 1975, Pres. 1976-; mem. Romanian Soc. of Physics and Chem., Physical Socs. of U.S.A., Belgium, France; mem. Board of Int. Soc. of Magnetic Resonance; mem. Cttee. Atomes et Molécules par Études radioélectriques (AMPERE); alt. mem. Exec. Political Cttee. Cen. Cttee. Romanian CP 1974-; mem. Grand Nat. Assembly 1975-; Order of Labour, Order of Star of the Socialist Republic of Romania, Order of Tudor Vladimirescu, Order of 23rd August, Orders of U.S.S.R., Fed. Repub. of Germany. Netherlands and others. *Publications:* Rezonanţa Electronică de Spin 1965, La résonance paramagnétique electronique 1968, Magnetic Resonance and Related Phenomena (Ed.) 1971, Energia atomică 1973 and about 100 papers on atomic and nuclear physics, nuclear materials, nuclear technologies, solid state physics, interaction of radiation with matter. *Address:* National Council for Science and Technology, str. Roma 32-34, Bucharest 1; Str. Grigore Mora 24, Bucharest 1, Romania (Home). *Telephone:* 33-43-01 (Office).

USAMI, Makoto; Japanese banker; b. 5 Feb. 1901, Tokyo; s. of Katsuo Usami; m. Hiroko Nakamura 1937; ed. Keio Univ.; entered Mitsubishi Bank Ltd. 1924, Man. Econ. Research Dept. 1947, Man. Gen. Affairs Dept. 1949, Dir. 1950, Dir. and Man. Head Office 1951-54, Man. Dir. 1954-59, Deputy Pres. 1959-61, Pres. 1961-64; Gov. Bank of Japan 1964-Dec. 1969; Chair. Board of Counsellors, Keio Univ. 1966-; Chair. Fed. of the Bankers' Assen. of Japan 1962-63. *Leisure interests:* Japanese chess, reading. *Address:* Room 524, Marunouchi Yaesi Building 6-2, 2 Marunouchi, Chiyoda-ku, Tokyo 100 (Office); 24-15, 1 Minami-Aoyama, Minato-ku, Tokyo, Japan (Home). *Telephone:* 211-2670 (Office); 401-8675 (Home).

USERY, William J.; American industrial relations executive; b. 21 Dec. 1923, Hardwick, Ga.; ed. Georgia Mil. Coll., Mercer Univ.; served U.S. Navy 1943-46; Maintenance Machinist, Armstrong Cork Co. 1949-55; Grand Lodge Rep., Int. Assen. of Machinists and Aerospace Workers (IAM), AFL-CIO 1956, IAM Special Rep., Cape Canaveral Air Force Test Facilities 1956, IAM Rep. to President's Missile Sites Labor Cttee. 1961-67; Co-ordinator for Union Activities, Manned Spacecraft Center, Houston, Tex.; Co-founder, Cape Kennedy Labor-Management Relations Council 1967, Chair. 1968; Asst. Sec. of Labor for Labor-Management Relations 1969-73, Sec. of Labor 1976-77; Dir. of Fed. Mediation and Conciliation Service 1973-76; Special Asst. to the Pres. 1974-75, for Labor-Management Negoations 1975-76; Pres. Bill Useng Assocs., Washington 1977-; Democrat. *Address:* 2400 Virginia Avenue, N.W., Washington, D.C. 20037, U.S.A. (Home).

USHAKOV, Konstantin Alekseyevich; Soviet stage designer and theatre director; b. 1908; ed. Central Inst. of Theatrical Art and State Inst. of Theatrical art; apprentice painter Korsh Theatre 1920-22; Asst. Chief Painter Moscow Bolshoi Drama Theatre (now Stanislavsky and Nemirovich-Danchenko Theatre of Opera and Ballet) 1922-27; Head of Design Section, Deputy Art Dir., Dir., Moscow Theatre of Operetta 1927-47; Chief of Dept. of Art Affairs, Moscow City Soviet of Working Peoples' Deputies 1941-53; Chief of Board of Culture Dept., Moscow Soviet 1953-65; Senior Teacher, Dir. of Faculty, State Inst. of Theatrical Art 1964; Dir. Moscow Arts Theatre 1965-, toured France, Bulgaria, Hungary, Austria, Japan; Order of Red Banner of Labour; Honoured Cultural Worker, R.S.F.S.R. and several decorations. *Publications:* on problems of history, theory and practice of theatre and culture. *Address:* Moscow Arts Theatre, 3 Proyezd Khudozhestvennogo teatra, Moscow, U.S.S.R.

USHAKOV, Nikolay Aleksandrovich, D.SC.; Soviet international lawyer; b. 19 Nov. 1918, Moscow; Research Prof., Inst. of State and Law, U.S.S.R. Acad. of Sciences 1948-; Chief of Editorial Board, International Law (annual); mem. Perm. Court of Arbitration, The Hague; mem. UN Int. Law Comm. 1967-; Exec. Sec. UN Assen. in U.S.S.R.; mem. Int. Law Assen.; Vice-Pres. Soviet Int. Law Assen.; lectures in int. public law at Moscow, Kiev and Leningrad Univs.; has participated in various confs. on questions of int. law. *Publications:* over 40 learned publications in the field of int. law. *Address:* Institute of State and Law of U.S.S.R. Academy of Sciences, ul. Frunze 10, Moscow, U.S.S.R.

USHER ARSÈNE, Assouan, M.A.; Ivory Coast lawyer and politician; b. 2 Oct. 1930; ed. Dakar, Bordeaux and Poitiers Univ.; Lawyer, Court of Appeals, Poitiers 1955-56; Cabinet attaché of M. Houphouet-Boigny 1956; Asst. Dir. Caisse des Allocations Familiales 1957-59; Conseiller Général 1957-59; Deputy Vice-Pres. Nat. Assembly 1959-60; Lawyer, Court of Appeals, Abidjan 1959; Head, Ivory Coast Perm. Mission to UN 1961-67; Minister of Foreign Affairs 1967-77; mem. UN Security Council 1964-67, Polit. Bureau Parti Démocratique de Côte d'Ivorie responsible for Mass Educ. 1970-; Nat. Order of Ivory Coast. *Address:* Cocody-Abidjan, Ivory Coast.

USHIBA, Nobuhiko, B.L.; Japanese diplomatist; b. 16 Nov. 1909, Kobe; s. of Tetsuro and Tokoyo (Yamada) Ushiba; m. Fujilo Kobayashi 1949; four c.; ed. Tokyo Imperial Univ.; Head 1st Div., 4th Dept., Cen. Liaison Office 1945-49; Dir.-Gen. Foreign Exchange Cen. Cttee., Office of the Prime Minister 1949-51; Dir.-Gen. Int. Trade Bureau, Ministry of Int. Trade and Industry 1951-54; Counsellor Planning Council, Ministry of Foreign Affairs 1954; Counsellor of Embassy, Burma 1954-56; Councillor, Ministry of Foreign Affairs 1956-57, Dir.-Gen. Econ. Affairs Bureau 1957-61; Amb. to Canada 1961-64; Deputy Vice-Minister of Foreign Affairs 1964-67, Vice-Minister 1967-70; Amb. to U.S.A. 1970-77; Minister of State without Portfolio 1971-78; Rep. to Multi-National Trade Negotiations 1978-; numerous decorations from Fed. Repub. of Germany, Iran, Mexico, Peru, Philippines, Korea, Afghanistan, Japan. *Address:* c/o Ministry of Foreign Affairs, Tokyo, Japan.

USLAR-PIETRI, Arturo; Venezuelan writer and politician; b. 16 May 1906, Caracas; s. of Arturo Uslar and Helena Pietri de Uslar; m. Isabel Braun 1939; two s.; ed. Univ. Central de Venezuela; Prof. of Political Economy, Univ. Central de Venezuela 1937-41; Sec. to Pres. of Venezuela 1941-43; Minister of Nat. Educ. 1939-41, of Finance 1943, of Foreign Affairs 1945; Prof. of Latin American Literature, Columbia Univ., New York 1947, of Venezuelan Literature, Univ. Central de Venezuela; mem. Acad. Venezolana de la Lengua, Acad. of Social and Political Sciences, Acad. of History, Venezuela; Senator, Nat. Congress 1958; Ind. Candidate for Pres. Dec. 1963; Perm. Del. and mem. Exec. Board UNESCO; holds numerous int. awards. *Publications:* novels: Las lanzas coloradas 1931, El camino de El Dorado 1947, El laberinto de fortuna 2 vols., Officio di Difuntos 1976; stories: Barrabás y otros relatos 1926, Red 1936, Treinta hombres y sus sombras 1949, Pasos y Pasajeros 1965; essays: Las Nubes 1951, Del hacer y deshacer de Venezuela 1963, La ciudad de nadie 1960, Oraciones para despertar; poems: Manoa 1972; plays: Teatro 1958, Chúo Gil y las tejedoras 1960, and several monographs. *Address:* Avenida Los Pinos 1949, La Florida, Caracas, Venezuela. *Telephone:* 74-05-65.

USMANI, Ishrat Husain, PH.D.; Pakistani scientist and administrator; b. 15 April 1917; ed. Aligarh Univ., Bombay Univ. and Imperial Coll. of Science and Technology, London; joined Madras Cadre of Indian Civil Service 1942; fmr. Chief Controller of Imports and Exports, Pakistan; fmr. Chair. W. Pakistan Mineral Development Corpn., Nat. Science Council, Pakistan; mem.-Sec. Scientific Comm. 1959-61; Chair. Pakistan Atomic Energy Comm. 1960-72; Chair. Pakistan Power Comm. 1961-62; Chair. Board of Govs., IAEA Vienna 1962-63; Sec. Ministry of Educ. 1969-72, of Science and Technology 1972-77; Scientific Adviser to UN Sec.-Gen. on Energy Affairs 1977-; Hon. Consultant to UN Sec.-Gen. on Nuclear Non-proliferation Treaty; Hon. Vice-Pres. U.K. Inst. of Nuclear Engineers. *Address:* c/o Permanent Mission of Pakistan to the United Nations, 8 East 65th Street, New York, N.Y. 10017, U.S.A.

USSOSKIN, Moshe; Israeli social worker; b. 8 March 1899, Moghilev-Podolsk, Russia; s. of Elijahu-Eli and Dvora Ussoskin; m. Miriam Griner 1934; one d.; Zionist work in Bessarabia 1917; Controller Bank Moldova Bucharest and Co-Dir. Branche Reni 1918-28; Dir. American Joint Distribution Cttee. and Foundation for Hungary, Turkey and Balkan countries 1928-41; Dir. Cen. Bank for Jewish Co-operatives in Romania 1933-41; Senior Officer Migdal Insurance Co., Jerusalem 1941-48; mem. Exec. Comm. Union Credit Co-operatives in Palestine 1942-47; Dir.-Gen. and Treas. Keren Kayessod United Israel Appeal 1949-68; mem. Board Israel Land Devt. Co., Jerusalem Econ. Corpn. 1949-75, Binjaneh Haumah Ltd., and others; mem. Presidium of World Fed. of Bessarabian Jews, Board of Govs. Hebrew Univ., Jerusalem; has organized much relief work for refugees. *Publications:* Co-Editor of co-operative monthly Die Genossenschaft Czernowitz-Bukovina; Social Welfare among Jews in Bessarabia, Social Welfare among Jews in Saloniki (Greece), Struggle For Survival 1975, A History of Jewish Co-operatives in Bessarabia, Old Rumania, Bukovina and Transylvania, and many articles on co-operative, economic, zionist, and Jewish matters in many languages. *Address:* 16 Arlosorof Street, Jerusalem 92181, Israel. *Telephone:* (02)-31854.

USTINOV, Marshal Dmitriy Fedorovich; Soviet politician and administrator; b. 30 Oct. 1908; ed. Military Inst. of Mechanics; worked in Research Inst. 1934-37; Construction Engineer, later Deputy Head of Construction Bolshevik plant 1935-40, Dir. 1941; People's Commissar for Armaments 1941-46; Minister of Armaments 1946-53; Minister of Defence Industries 1953-57; Deputy Chair. Council of Ministers U.S.S.R. 1957-63, First Deputy Chair. 1963-65; Minister of Defence April 1976-; Chair. Supreme Council of Nat. Economy 1963-65; Sec. Cen. Cttee. of Communist Party of Soviet Union 1965-, Cand. mem. Political Bureau 1966-76, mem. 1976-78; Deputy to U.S.S.R. Supreme Soviet 1946-50, 1957; accorded rank of Gen. April 1976, Marshal July 1976; Hero of the Soviet Union, Hero of Socialist Labour, Order of Lenin (twice), Hammer and Sickle Gold Medal (twice), Sixty Years of Armed Forces of U.S.S.R. Medal and other decorations. *Address:* Ministry of Defence, 34 Naberezhnaya M. Thoreza, Moscow, U.S.S.R.

USTINOV, Peter Alexander, C.B.E., F.R.S.A.; British dramatist and actor; b. 16 April 1921; s. of late Jona Ustinov and Nadia Benois; m. 1st Isolde Denham 1940 (divorced 1950), one d.; m. 2nd Suzanne Cloutier 1954 (divorced 1971), one s. two d.; m. 3rd Hélène du Lau d'Allemans 1972; ed. Westminster School and London Theatre Studio; entered theatre as actor 1938, first appearance in revue writing own material Ambassador's Theatre, London 1940; served in army 1942-46; appeared in plays: Crime and Punishment 1946, Frenzy 1948, Love in Albania 1949, The Love of Four Colonels 1951, The Unknown Soldier and his Wife 1973; appeared in films: The Way Ahead (collaborated on screenplay) 1944, Odette 1950, Hotel Sahara 1951, Quo Vadis 1951, Beau Brummel 1954, The Egyptian 1954, We're no Angels 1955, Lola Montes, Spartacus, Billy Budd 1962, Topkapi 1963, John Goldfarb 1964, Lady L 1965, Blackbeard's Ghost 1966, The Comedians 1967, Viva Max! 1970, Hot Millions (part-author and star) 1968, Hammersmith is Out (also dir.) 1971, One of Our Dinosaurs is Missing 1975, Treasure of Matcumbe 1977, The Last Remake of Beau Geste 1977, The Thief of Baghdad 1978, Death on the Nile 1978, Ashanti 1978; appeared in TV production Jesus of Nazareth 1977; directed, designed and appeared in opera Don Quichote, Paris 1974, directed opera The Bandits, Berlin 1978; mem. British Film Acad.; Rector Univ. of Dundee 1968-74; three Emmy Awards for best TV actor of year. *Publications:* plays: House of Regrets 1942, Blow Your Own Trumpet 1943, The Banbury Nose 1944, The Tragedy of Good Intentions 1945, The Indifferent Shepherd 1948, The Man in the Raincoat 1949, The Love of Four Colonels 1951, The Moment of Truth 1951, No Sign of the Dove 1953, Romanoff and Juliet 1956, Photo Finish 1962, The Life in My Hands 1963, Half Way up the Tree 1967, The Unknown Soldier and his Wife 1967, Who's Who in Hell 1974; short stories: Add a Dash of Pity 1959, The Frontiers of the Sea 1966; novels: The Loser 1960, Krumnagel 1971; autobiography: Dear Me. *Address:* c/o Steve Kevis, William Morris Agency, 147/149 Wardour Street, London W1V 3TB; and Clos du Château, 1181 Bursins, Vaud, Switzerland.

USTOR, Dr. Endre, Hungarian lawyer; b. 1 Sept. 1909, Budapest; m. Lili Havas; no c.; Head, Int. Law Dept., Ministry of Foreign Affairs 1957-75, then Amb.; Hon. Prof. Karl Marx Univ. of Econs., Budapest 1968-; mem. Perm. Court of Arbitration, The Hague 1961-; mem. UN Int. Law Comm. 1967-76. Chair. 1974; mem. UN Admin. Tribunal 1976-; Assoc. mem. Inst. of Int. Law, Belgium 1967-. *Publications:* The Law of Diplomatic Relations (in Hungarian) 1965, Reports on the Most Favoured Nation Clause (in Yearbooks of the UN Int. Law Comm. 1968-70, 1972-76); and several articles on int. law. *Address:* Fodor utca 73, 1124 Budapest, Hungary. *Telephone:* 857-169.

UTCHENKO (*see* Uchenko).

UTZERATH, Hansjörg; German theatre director; b. 20 March 1926; ed. Kepler Oberschule, Tübingen; began as actor, later in theatre management in Düsseldorf, and then in production; Chief Stage Man., Düsseldorfer Kammerspiele 1955-59; Dir. 1959-66; Intendant, Freie Volksbühne, Berlin 1967-73; Guest Producer at Staatstheater Stuttgart, Münchener Kammerspiele and Schiller-Theater, Berlin 1959-. *Productions include:* Tango 1971, Der Vater 1972, Viele heissen Kain (TV). *Address:* c/o Freie Volksbühne, Berlin 15, Schaperstrasse 24, Germany.

UTZON, Jørn; Danish architect; b. 9 April 1918, Copenhagen; ed. Royal Acad. of Fine Arts, Copenhagen; joined Helsinki Office of Alvar Aalto (*q.v.*) after Second World War; won travelling scholarships to Morocco and U.S.A.; designer of furniture and glassware; won competition for design of Sydney Opera House 1957, worked on project in Denmark 1957-63, in Sydney 1963-66 (resigned

architect); won competition for design of Zürich Schauspielhaus 1966; architect of a housing scheme near Fredensborg, his own house, Bank Melli Iran, Teheran, etc.; Fellow, Royal Australian Inst. of Architects 1965, R.I.B.A. 1978-; Ehrenpreis, Bund Deutscher Architekten 1966, Gold Metal, Royal Australian Inst. of Architects 1973, R.I.B.A. 1978, and other awards. *Address:* 3150 Hellebaek, Denmark.

UZAN, Aharon; Israeli agriculturist; b. Tunisia; emigrated to Israel 1949; co-founder, settler, Moshav Ghilat, in Negev 1949, Sec., later Head of supply network; mem. Knesset (Parl.) 1965-69; Deputy Minister of Agric. 1966-69; Gen. Sec. Tnuat Hamoshavim 1970-74; Minister of Communications March-June 1974, of Agric. 1974-77, of Communications 1975-77; Labour Party. *Address:* c/o Israel Labour Party, P.O.B. 3263, Tel-Aviv, Israel.

V

VADIM, Roger (Plemiannikov); French film director; b. 26 Jan. 1928; m. 1st Brigitte Bardot (*q.v.*) 1952 (divorced), 2nd Annette Stroyberg 1958 (divorced), 3rd Jane Fonda (*q.v.*) 1967 (divorced), 4th Catherine Schneider 1975; actor; script-writer and Asst. Dir. with Marc Allegret; reporter Paris-Match 1952-54; independent film dir. 1955-; scriptwriter Futures vedettes, Cette Sacrée Gamine, En effeuillant la Marguerite; dir. and scriptwriter Et Dieu créa la femme, Sait-on jamais, Les bijoutiers du Clair de Lune, Les liaisons dangereuses, Et mourir de plaisir, Le repos du guerrier, Le vice et la vertu, La ronde, La curée, Histoires extraordinaries, Barbarella, Metzengerstein 1969, Pretty Maids in a Row, Hellé, Don Juan 1973, La jeune fille assassinée 1974, Une femme fidèle 1976. *Publication:* Memoirs of the Devil 1976. *Address:* 6 avenue Frédéric-Leplay, 75007 Paris; La Fontaine Richard, Saint-Ouen-Marchefroy, 28 Berchères-sur-Vesgres, France (Home).

VAES, Robert, LL.D.; Belgian diplomatist; b. 9 Jan. 1919, Antwerp; s. of Louis Vaes; m. Anne Albers 1947; one d.; Parl. Private Sec. to Minister of Foreign Trade 1958-60; Dir.-Gen. of Political Affairs 1964-66; Perm. Under-Sec. of State, Ministry of Foreign Affairs, Foreign Trade and Devt. Co-operation 1966-72; fmr. Chair. Council of Benelux Union; postings to Washington, Paris, Hong Kong, London, Rome, Madrid 1972-76; Amb. to U.K. Nov. 1976-; decorations include Grand Officer of the Order of Léopold II, Grand Officer of the Order of the Crown, Hon. K.C.M.G. *Address:* Belgian Embassy, 103 Eaton Square, London, SW1W 9AB; 36 Belgrave Square, London S.W.1, England. *Telephone:* 01-235 5422 (Office); 01-235 1752.

VAGNOZZI, H.E. Cardinal Egidio, PH.D., S.T.D., J.C.D.; Vatican diplomatist; b. 2 Feb. 1906; ed. Lateran Pontifical Seminary and Lateran Pontifical Univ.; Papal Secr. of State, Vatican City 1930-32; Sec., then Auditor and Counsellor, Apostolic Delegation, Washington, D.C. 1932-42; Counsellor, Lisbon 1942, Vatican 1942-46, Paris 1946-48; Chargé d'Affaires, Counsellor, Papal Internunciature, India 1948-49; Apostolic Del., then Papal Nuncio to Philippines 1949-58; Apostolic Del., Washington, D.C. 1958-67; mem. Council Public Ecclesiastical Affairs, Congregations for the Eastern Churches 1969-, for Evangelization of Peoples 1975-; mem. Supreme Tribunal of Apostolic Signature 1972-; cr. Cardinal 1967; Pres. Comm. of Cardinals for the Prefecture of Econ. Affairs of the Holy See 1968-; Commandeur Légion d'honneur, Order of Sikatunan, Grand Cross of Order of Holy Sepulchre. *Address:* Prefettura degli Affari Economici della Santa Sede, Vatican City, Rome, Italy.

VAGO, Constantin, PH.D., D.SC.; French pathologist and university research director; b. 2 May 1921; s. of Vincent Vago; m. Catherine Sary 1944, one s. one d.; ed. Univs. of Debrecen and Marseilles; Dir. Lab. of Cytopathology, Nat. Inst. for Agron. Research, Saint-Christol 1958-; Research Dir. Nat. Inst. of Agron. Research of France 1962; Prof. of Pathology and Microbiology, Univ. of Science, Montpellier 1964-; Dir. Lab. of Comparative Pathology, Univ. of Montpellier 1964-; mem. Acad. of Sciences of France, Acad. of Agric. of France, New York Acad. of Sciences; Past Pres. Int. Soc. for Invertebrate Pathology; Pres. Nat. Cttee. of Biological Sciences of France; mem. numerous scientific socs.; Ordre de la Légion d'honneur, Order du Mérite, and other decorations. *Publications:* Invertebrate Tissue Culture 1972, and about 400 publications on comparative pathology, invertebrate tissue culture, invertebrate virology, chlamydial diseases, comparative oncology. *Leisure interests:* sculpture, swimming. *Address:* University of Sciences, Place Eugène Bataillon, 34060 Montpellier, France. *Telephone:* 639144; 522017.

VAGO, Pierre; French architect and town planner; b. 30 Aug. 1910, Budapest, Hungary; s. of Joseph and Ghita (Lenart) Vago; remarried Nicole Cormier 1968; two s. two d.; ed. Ecole spéciale d'Architecture, Paris; Editor-in-Chief Architecture d'Aujourd'hui 1932-48, Pres. of Cttee. 1948-75, Dir. 1976-; Founder and Sec.-Gen. Int. Reunions of Architects 1932-48 and Int. Union of Architects 1948-69, Hon. Pres. 1969-; Head Architect for Reconstruction 1948-56; Pres. Int. Council, Soc. of Industrial Design 1963-65; fmr. Vice-Pres. Confed. of French Architects; mem. Jury of many int. competitions; architect and town planner in Belgium, Austria, France, Germany, Tunisia, Luxembourg, Israel and Italy; Prof. and Dir. of Studies Ecole Supérieure d'Architecture St. Luc de Belgique; honours include Hon. mem. of R.I.B.A., American Inst. of Architects, Bund Deutscher Architekten, Akad. der Künste, W. Berlin and membership of numerous architectural socs.; Dr. h.c. (Univ. of Stuttgart), Prof. h.c. (Tech. Univ., Budapest); Chevalier Légion d'honneur, Commdr. Grégoire le Grand. *Major works include:* Basilica St. Pius X, Lourdes and other churches, Central Bank of Tunis, Library of Univ. of Bonn, Univ. of Lille, several buildings in France, Fed. Republic of Germany, North Africa and Israel. *Leisure interest:* history. *Address:* 102 rue de Grenelle, 75007 Paris, France. *Telephone:* 548-95-91.

VAIZEY, Baron (Life Peer) cr. 1976, of Greenwich, in Greater London; **John Vaizey,** D.SC., D.LITT.; British economist and writer; b. 1 Oct. 1929, London; s. of Ernest and Lucy (Butler) Vaizey; m. Marina Stansky 1961; two s. one d.; ed. Cambridge Univ.; UN Geneva 1952-53; Fellow, St. Catharine's Coll., Cambridge 1953-56; Lecturer in Econ. History, Oxford Univ. 1956-60; Dir. Research Unit in Econs. of Educ., Univ. of London 1960-62; Fellow and Tutor, Worcester Coll., Oxford 1962-66; Prof. of Econs. and Head of School of Social Sciences, Brunel Univ., London 1966-; Visiting Prof. Univ. of Calif. 1966-67; Centenary Prof., Univ. of Adelaide 1974-75; Consultant to OECD, UN, ILO; Dir. Actor Soc. Trust 1961-77; mem. Public Schools Comm. 1966-68, Nat. Council for Educational Tech. 1967-73, U.K. Comm. for UNESCO 1965-78, Inner London Educ. Authority 1970-72, Gov. Board, Int. Inst. for Educational Planning 1971-; Gladstone Prizeman, Univ. of Cambridge 1954; Eleanor Rathbone Lecturer, Univ. of Liverpool 1966; Trustee King George VI and Queen Elizabeth Foundation; Gov. Ditchley Foundation 1973-. *Publications:* The Costs of Education 1958, Scenes from Institutional Life 1959, The Brewing Industry 1886-1951 1960, Some Economic Aspects of Educational Development in Europe (with Michel Debeauvais) 1960, Guinness's Brewery in the Irish Economy 1759-1876 (with Patrick Lynch) 1961, The Economics of Education 1962, Education for Tomorrow 1962, revised 1966, The Control of Education 1963, The Residual Factor and Economic Growth (Editor) 1965, Economics of Education (Editor, with E. A. G. Robinson) 1966, Barometer Man 1967, Resources for Education (with John Sheehan) 1968, The Sleepless Lunch 1968, Capitalism 1971, The Type to Succeed 1970, Social Democracy 1971, The Political Economy of Education (with Keith Norris and John Sheehan) 1972, The Economics of Research and Technology (with Keith Norris) 1973, History of British Steel 1974, Education: The State of the Debate in America, Britain and Canada (with C. F. O. Clarke) 1976, Economics for Everyone (with Keith Norris) 1977, Training Musicians 1978; numerous pamphlets and articles. *Leisure interests:* writing, travel, arts. *Address:* 24 Heathfield Terrace, London, W4 4JE, England.

VAJPAYEE, Atal Bihari, M.A.; Indian politician; b. 25 Dec. 1926; ed. Victoria Coll., Gwalior, D.A.V. Coll., Kanpur; mem. Rashtriya Swayamsewak Sangh 1941, Indian Nat. Congress 1942-46; mem. Lok Sabha 1957-62, 1967- (for New Delhi March 1977-), Rajya Sabha 1962-67; founder mem. Bharatipa Jana Sangh, Pres. 1968-74, Parl. Leader 1974-77; Chair. Public Accounts Cttee. 1969-70; detained during Emergency 1975-77; mem. Janata Party 1977-; Minister of External Affairs March 1977-. *Publications:* Amar Balidan, Mrityuya Hatya, Jana Sangh our Musalman. *Address:* Ministry of External Affairs, New Delhi (Office); 1 Ferozeshah Road, New Delhi 1, India (Home). *Telephone:* 387-446.

VALCÁRCEL VIZCARRA, Luis Eduardo, D.PHIL., LL.D.; Peruvian ethnologist; b. 8 Feb. 1891, Ilo Moquegua; s. of Domingo Luciano Valcárcel and Leticia Vizcara Cornejo; m. Martha Santos 1920; one s. two d.; ed. Univ. del Cuzco and Col. Peruano del Cuzco; Prof. of Peruvian History, Univ. del Cuzco 1917-30, Dir. Univ. Archaeological Museum 1923-30; Dir. Peruvian Archaeological Museum, Lima 1930-44; Dir. Bolívar Museum, Lima 1930; Dir. Nat. History Museum, Lima 1944-65, Dir. Emer. 1965-; Prof. Univ. Nacional Mayor de San Marcos de Lima 1931-63, now Prof. Emer.; fmr. Dir. Ethnological Inst., Lima 1946; Minister of Educ. 1945-47; mem. Acad. Française; Pres. Acad. Nacional de Historia, Asociación Nacional de Escritores y Artistas; Légion d'honneur; Order of Aztec Eagle (Mexico); Order of the Sun (Peru). *Publications:* De La Vida Incaica 1925, Tempestad en los Andes 1927, Mirador Indio (essays) 1937, Cuentos y Leyendas Incas 1938, Historia de la Cultura Antigua del Perú 1943, Ruta Cultural del Perú 1945, Historia del Perú Antiguo 3 vols. 1964, Del Ayllu al Imperio, Ethnohistoria del Perú, Machupicchu (in English). *Address:* Lord Cochrane 456, Miraflores, Lima, Perú. *Telephone:* 222764.

VALDÉS GONZÁLEZ-ROLDÁN, Antonio; Spanish politician and transport technician and administrator; b. 23 May 1926; m.;

five c.; Chief Exec., Traffic and Planning Service, Dirección Gen. de Carreteras 1960-66; Dir. of traffic and transport in city of Madrid 1966-73; mem. of Board, RENFE (State Railway Org.) Sept.-Dec. 1973; Prof. in Transport, Inst. of Local Admin. Studies 1968-73; Minister of Public Works 1974-76; Vice-Chair. Consejo Superior de Transportes Terrestres 1976-; consultant in Traffic and Transport Studies. *Publication:* Ingeniería de Tráfico (2nd edn.) 1978. *Address:* Consejo Superior de Transportes Terrestres, Ministerio de Transportes, Madrid; 34 Pedro de Valdivra, Madrid-6, Spain (Home). *Telephone:* 261-42-90 (Home).

VALENCIA-IBÁÑEZ, Gen. Edmundo; Bolivian army officer and diplomatist; b. 8 March 1925, La Paz; s. of Juan de Dios Valencia and Sara Ibáñez de Valencia; m. Violeta Collazos de Valencia 1950; three s. one d.; ed. various military colls. Bolivia and U.S.A.; fmr. Mil. Attaché, Paris; Chief of Staff of 3rd and 7th Div.; Minister of Nat. Economy, of Industry and Commerce and of Finance (a.i.); fmr. Gov. IDB; Amb. to U.S.A. 1971-74, also accred. to Canada 1972; Perm. Rep. of Bolivia to OAS 1971-74; Pres. Sugar-Cane and Sugar Board (CNECA), Fábrica Nacional de Fósforos, Institute for Promotion of Investments in Bolivia (INPIBOL), National Council for Electricity; Pres. of Rowe Fund in OAS; Exec. Dir. Inter-American Devt. Bank 1974-77; Amb. Extraordinary and Plenipotentiary to Canada 1977-; decorations from Bolivia, Argentina, China and the Vatican. *Leisure interest:* reading. *Address:* Embassy of Bolivia, 85 Range Road, Suite 405, Ottawa, Ontario, Canada, K1N 8J6.

VALENTI, Jack; American fmr. film executive and government official; b. 1921; m. Mary Margaret Wiley; one s. two d.; ed. High School, Houston, Univ. of Houston and Harvard Business School; fmr. office boy, oil company; U.S. Air Force, Second World War; Special Asst. to President Johnson 1963-66; Pres. Motion Picture Assn. of America 1966-, Assn. of Motion Picture and Television Producers Inc. 1966; Dir. American Film Inst. 1967, Trans World Airlines, The Washington Star; mem. Board of Trustees, J.F.K. Center for the Performing Arts, American Film Inst. *Publications:* The Bitter Taste of Glory 1971, A Very Human President 1976. *Address:* 1600 I Street, N.W., Washington, D.C. 20006, U.S.A.

VALENTINE, Alan, M.A.; American historian and former administrator; b. 23 Feb. 1901, Glen Cove, N.Y.; s. of Charles Post Valentine and Annie Laurie Valentine; m. Lucia Norton 1928; one s. two d.; ed. Swarthmore Coll., Univ. of Pennsylvania, and Oxford Univ. (Balliol Coll.); Instructor, Univ. of Pa. 1921-22; with Oxford Univ. Press in U.K. and U.S. 1925-28; Asst. Prof. of English and Dean of Men, Swarthmore Coll. 1928-32; Editor of The American Oxonian 1930-35; Prof. in History, Arts and Letters Dept., Yale Univ., and Chair. of Board of Admissions and Master of Pierson Coll. 1932-35; Pres. Univ. of Rochester 1935-50; Chief of Mission to Netherlands for Econ. Co-operation Admin. 1948-49; Econ. Stabilisation Dir. 1950-51; Pres. Cttee. for Free Asia 1951-52; Dir. Fed. City Council of Washington 1952-; sometime Dir. of several industrial cos., railroad, bank, foundations; Fellow, Int. Inst. of Arts and Letters 1958-; Fellow, Intercontinental Biographical Assn.; several hon. degrees; Grand Officer Order of Orange-Nassau (Neths.); Gold Medal, Olympic Games, Paris 1924. *Publications:* The English Novel 1927, Biography 1927, Dusty Answers 1941, The Age of Conformity 1953, Vigilante Justice 1955, Trial Balance 1956, Education of an American 1958, Lord George Germain 1962, 1913: Year of Transition 1962, Fathers to Sons 1963, Lord North (2 vols.) 1967, Lord Stirling 1969, The British Establishment 1760-1784 (2 vols.) 1970, The American Academy in Rome (with Lucia Valentine) 1973. *Address:* 7 Lafayette Road, Princeton, N.J. 08540, U.S.A. *Telephone:* 609-924-6625.

VALERIO, Giorgio; Italian engineer and industrialist; b. 20 March 1904, Milan; m. Viviana Talan Lubovitch 1935; two s.; one d.; ed. Milan Engineering Univ.; with Società Edison Milan (now Montecatini Edison S.p.A.) 1927, Man. Dir. 1952-65, Vice-Chair., Man. Dir. 1961-65, Chair. and Chief Exec. Officer 1965-70; Vice-Chair. Sincat, Palermo, Chatillon, Milan; Dir. Soc. Italiana per le Strade Ferrate Meridionali, Florence, Riunione Adriatica di Sicurtà, Trieste; La Fondiaria, Florence. *Address:* Foro Bonaparte 31, Milan, Italy.

VALÉRY, François; French diplomatist; b. 17 July 1916; ed. Univ. of Paris; Auditor, Cour des Comptes 1944; Technical Counsellor at the Peace Conf. 1946; mem. French del. to Council of Ministers for Foreign Affairs on the Marshall Plan and to Tripartite Confs. on Germany 1946-50; Head of Section of Econ. Co-operation and Integration, Ministry of Foreign Affairs 1948; Conseiller Référendaire, Cour des Comptes 1950; Perm. Del. of France to OEEC 1956-61, to OECD 1961-76, to UNESCO 1976-, mem. Exec. Board 1977-; Vice-Pres., then Chair. Exec. Cttee. of OECD until 1976; Officier de la Légion d'honneur and numerous other awards. *Address:* 3 rue Léon-Mignotte, 91-Bièvres, France.

VALLE, Inger Louise; Norwegian politician; b. 28 Nov. 1921, Oslo; ed. Commercial Coll., and law studies; appointed to Price Directorate 1951, transferred to Consumer Council 1958, Head of Legal and Econ. Section 1958-71; mem. Baerum Municipal Council 1967-71; mem. Arbeiderpartiet (Labour Party); Chair. Nordic Cttee. for Consumer Problems; mem. Labour Party Environment Conservation Cttee. and Democracy Cttee.; Minister of Family and Consumer Affairs 1971-72, of Consumer Affairs and Govt. Admin. 1972, of Justice and Police Oct. 1973-. *Address:* Ministry of Justice and Police, Akersgaten 42, Pb 8014 Dep, Oslo, Norway.

VALLEJO ARBELÁEZ, Joaquin; Colombian civil engineer, politician and diplomatist; b. 4 Oct. 1912; s. of Nestor Vallejo and Maria Arbeláez; m. Nelly Mejia 1937; four s. five d.; ed. Escuela Nacional de Minas; Dir. of Public Educ., Antioquia 1936-38; Prof. of Math., Physical Sciences and Philosophy, Univ. of Antioquia and Nat. School of Mines 1935-39; Deputy to Provincial Assembly, Antioquia 1937-39; mem. Nat. Assembly 1939-; Pres. of Aliadas McKesson Labs. 1944-64; Minister of Devt. 1957, of Finance and Public Credit 1965-66; Perm. Rep. to UN 1969-70; Minister of the Interior 1970; with Banco Comercial Antioqueño 1971-74; mem. Board of Dirs. of Public Works Dept., and several private corpns. *Publications:* ABC de la Integración Latinoamericana 1971, El Misterio del Tiempo 1976, Cuatriptico: Las Fronteras de las Libertades (Vols. I-IV); articles on development, economics, philosophy, politics, regional integration, education. *Leisure interests:* philosophy, sciences, agriculture, economics. *Address:* Apdo. aéreo 253, Palmira, Colombia. *Telephone:* 631-86165-Candelaria (V.).

VALLENTHIN, Wilhelm, DR.JUR.; German business executive; b. 24 July 1909; Chair. Supervisory Board, Hemmoor Zement AG, Hemmoor/Oste; Polyphon Film-und Fernsehgesellschaft mbH, Hamburg, Schmalbach-Lubeca GmbH, Braunschweig, Hoffmann's Stärkefabriken AG, Bad Salzuflen; Chair. Advisory Board, Hako-Werke Hans Koch & Sohn, Bad Oldesloe. *Address:* 2 Hamburg 55, Elbchaussee 474, Federal Republic of Germany.

VALLENTIN, Maxim; German theatrical producer and director; b. 9 Oct. 1904, Berlin; s. of Richard Vallentin and Elise Zachow-Vallentin; m. Edith Wolff 1922; one s.; debut Schlossparktheater and Max Reinhardt Theatre, Berlin; founder and producer, Das Rote Sprachrohr (revolutionary workers' theatre), Berlin until 1933; in Czechoslovakia and U.S.S.R. until 1945, German announcer and radio-drama producer, Moscow Radio; returned to Weimar (D.D.R.) 1945; founded German Theatre Inst.; Chief Producer, Das Junge Ensemble, Weimar; Chief Producer and Dir. Maxim Gorky Theatre, Berlin 1951-68; Gen. Dir. Volksbühne, Berlin 1963-68; productions include works of Cervantes, Kleist, J. R. Becher, Fr. Wolf, Gorky, etc.; Assoc. German Acad. of Arts; mem. KPD 1926; two Nat. Prizes, two Nat. Orders of Merit, Vaterländischer Verdienstorden in Gold 1976, Order of Banner of Labour; Medal of Merit of D.D.R., J. R. Becher Gold Medal, Fritz Heckert Medal, Silver Medal (Czechoslovakia), Deed of Honour (U.S.S.R.), etc. *Publications:* on German Stanislavsky reception and German Gorky reception. *Leisure interests:* improvisation, sculpture, art and craft, gardening. *Address:* Akademie der Künste der Deutschen Demokratischen Republik, Hermann-Matern-Strasse 58-59, 104 Berlin; Grundelfinger Strasse 27, 1157 Berlin, German Democratic Republic.

VALLI, Romolo; Italian director and actor; b. 7 Feb. 1925, Reggio Emilia; ed. Univ. of Parma; joined Il Carrozzone group of actors producing their own plays 1949; at Piccolo Teatro di Milano under direction of Giorgio Strehler 1952-54; founded and managed Compagnia dei Giovani with Giorgio De Lullo, Rosella Falk, (*q.v.*), and Elsa Albani; directed Pirandello's Six Characters in Search of an Author and Rules of the Game at the World Theatre Season, London 1965, 1966; Artistic Dir. Festival of Two Worlds, Spoleto 1972-; Principal actor and director of own company with Giorgio De Lullo 1974-75; participated in the films: The Leopard, Death in Venice, The Garden of the Finzi Continis, Boom, 1900, etc.; Nastri d'argento, La Grolla d'oro, l'Olimpo d'oro, Nettuno d'oro, Premio Anna Magnani etc. *Address:* Compagnia di Prosa Romolo Valli, Via Luigi Settembrini 17-a, Rome, Italy.

VALLOIS, Henri Victor, D.M., D.SC.; French anthropologist; b. 11 April 1889, Nancy; m. A. d'Autheville 1918; Prosecutor, Faculty of Medicine, Univ. of Montpellier 1914; Prof. of Anatomy Univ. of Toulouse 1922; Dir. Institut de Paléontologie humaine 1943; Prof. Natural History Museum 1941; Hon. Dir. Musée de l'Homme 1961-; mem. Acad. Nat. de Médecine, France, Akad. der Wissenschaften, Vienna, Akad. der Wissenschaften und der Literatur,

Fed. Repub. of Germany, etc.; Huxley Medal, Royal Anthrop. Inst., England, Viking Medal, Wenner-Gren Inst., U.S.A.; Officier Légion d'honneur; many hon. degrees. *Publications:* Traité d'Anthropologie 1926, Anthropologie de France 1942, Les races humaines 1944, Les hommes fossiles 1946, Les primates 1955, Les Pygmées du Cameroun: Anthropologie et ethnologie (with P. Marquer) 1977, Les mésolithiques de France (with S. de Félice) 1977; editor L'anthropologie (1930-72), Archives de l'Institut de Paléontologie humaine (1943-73), Bulletins de la Société d'Anthropologie de Paris (1938-70). *Address:* 57 rue Cuvier, 75005 Paris, France. *Telephone:* 535-42-12.

VALSECCHI, Athos; Italian politician; b. 26 Nov. 1919, Gravedona (Como); s. of Eufrasio Valsecchi and Giuditta Oldrini; m. Marisa Gallegioni 1948; three c.; Deputy for Como Constituency, Sondrio-Varese 1948-63; [illegible] Parl. Comm. on Finance and Treasury 1948-, Vice-Pres. 1953-58, Pres. 1960-63; mem. Comm. on Industry and Commerce 1957-58; mem. Exec. Cttee. Christian Democrat Parl. Group 1954-58; mem. European Parl. Assembly and Vice-Pres. Comm. for Budget and Admin. 1957-60; Under-Sec. of State for Budget (Italy) 1958-59, Under-Sec. of State for Finance 1959-60, 1963-68; Senator 1963-; Minister of Agric. and Forestry 1968-69, of Posts and Telecommunications 1969-70, of Health Feb.-June 1972, of Finance 1972-73; Pres. Italo-German and Italo-French Cttees. for Econ. Co-operation 1958-; Pres. Inst. for European Economy 1967-; Mayor of Chiavenna 1951-70. *Address:* Senato della Repubblica, Rome; and Via Giancarlo Bitossi 21, Rome, Italy. *Telephone:* 344990.

VAN AAL, Henri-François; Belgian journalist and politician; b. 4 Jan. 1933, Alicante, Spain; ed. Paris and Harvard Univs.; journalist with Radio-Télévision Belge 1958, sub-editor of Journal Parlé and Journal Télévisé and TV Enquêtes et Reportages; organized seminar on information problems at Dept. of Social Communications of Catholic Univ. of Louvain; Deputy for Brussels 1971-; fmr. Sec. of State at Ministry of Foreign Affairs; Minister of French Culture, Deputy Minister for Brussels Affairs and Sec. of State for Housing 1974-77; fmr. Political Sec., Parti Social Chrétien. *Address:* c/o Ministry of French Culture, Brussels, Belgium.

VAN AGT, Andries A.M. (see Agt, Andries A. M. van)

VAN ALLAN, Richard; British opera singer; b. 28 May 1935, Clipstone, Notts.; s. of Joseph Arthur and Irene Hannah Jones; m. Rosemary Pickering 1976; one s.; ed. Brunt's Grammar School, Mansfield, Worcester Teaching Training Coll., Birmingham School of Music; studied singing under David Franklin and Jani Strasser. First appearance with Glyndebourne Festival Opera 1964; with Welsh Nat. Opera 1967, with Sadler's Wells Opera (now English Nat. Opera) 1968, as principal bass, Royal Opera House, Covent Garden 1971-, with Paris Opera 1975, with Boston Opera, Mass., and San Diego Opera, Calif. 1976; debut Colon Theatre, Buenos Aires 1978; John Christie award, Glyndebourne 1967, Grammy Award (The Nat. Acad. of Performing Arts and Sciences) for Don Alfonso (Così fan tutte). *Leisure interests:* cricket, tennis, shooting. *Address:* 343 Essex Road, London, N1 3PT, England. *Telephone:* 01-226 3448.

VAN ALLEN, James Alfred PH.D.; American physicist; b. 7 Sept. 1914, Mount Pleasant, Iowa; s. of Alfred Morris and Alma Olney van Allen; m. Abigail Fithian Halsey II 1945; two s. three d.; ed. Iowa Wesleyan Coll. and State Univ. of Iowa; Research Fellow, Carnegie Inst., Washington 1939-41, Physicist 1941-42; Physics Lab., Johns Hopkins Univ. 1942, 1946-50; Lieut.-Commdr. in U.S. Navy 1942-46; Head of Dept. and Prof. of Physics, Univ. of Iowa 1951-; Guggenheim Research Fellow at Brookhaven Nat. Lab. 1951; Research Assoc. Princeton Univ. Project Matterhorn 1953-54; Dir. expeditions to study cosmic radiation Central Pacific 1949, Alaska 1950, Arctic 1952, 1957; mem. Rocket and Satellite Research Panel 1946, Chair. 1947-58, Exec. Cttee. 1958-; mem. Advisory Cttee. on Nuclear Physics, Office of Naval Research 1957-60; mem. Space Science Board, Nat. Acad. of Sciences 1958-70; Consultant, President's Science Advisory Cttee.; mem. Cosmic Radiation, Rocket Research and Earth Satellite Panel, Int. Geophysical Year; Fellow, American Physical Soc., American Geophysical Union, American Rocket Soc., Inst. of Electrical and Electronics Engineers, American Astronautical Soc., American Acad. of Arts and Sciences; mem. Royal Astronomical Soc. (U.K.); founder mem. Int. Acad. of Astronautics; Assoc. Editor Physics of Fluids 1958-62, Journal of Geophysical Research 1959-67; mem. Editorial Board Space Science Reviews 1962-; several awards and medals and numerous Hon. D.Scs.; discoverer of the "Van Allen Belt" of radiation around the earth and a pioneer of high-altitude rocket research. *Publications:* Physics and Medicine of the Upper Atmosphere, Rocket Exploration of the Upper Atmosphere, and 200 scientific papers; Editor Scientific Use of Earth Satellites. *Address:* Department of Physics and Astronomy, University of Iowa, Iowa City, Iowa 52242 (Office); 5 Woodland Mounds Road, R.F.D. 5, Iowa City, Iowa 52240, U.S.A. (Home).

VAN ATTA, C(hester) M(urray), PH.D.; American physicist; b. 25 May 1906, Portland, Ore.; s. of Lester Claire and Martha Amelia (Murray) Vanetta; m. Rosalind Isenstein 1930; two s. three d.; ed. Reed Coll., and New York Univ.; Nat. Research Fellow, M.I.T. 1933-35, Research Associate 1935-38, Asst. Prof. 1938-40; Physicist Naval Ordinance Lab. 1940-43; Physicist Lawrence Radiation Lab. Univ. of California 1943-46; Prof. of Physics and Chair. Div. Physical Sciences and Math., Southern California 1946-50; Physicist, Lawrence Radiation Lab., Univ. of California 1950; Consultation on Vacuum Tech. to the Kinney Vacuum Div. of the New York Air Brake Co. 1937-65; Head Project for controlled thermonuclear research programme at the Berkeley and Livermore sites of the Lawrence Radiation Lab.; Assoc. Dir. Univ. of Calif., Lawrence Radiation Lab., Livermore 1955-70, Asst. to the Dir. 1970-73; retd. 1973; active consultant to Lawrence, Berkeley and Livermore Labs. 1973-; mem. of Board Berkeley Science Capital Corpn., San Francisco 1961-; Head, del. of American scientists to research insts. in U.S.S.R. working on controlled fusion research; Fellow, American Physical Soc. and American Assen. for the Advancement of Science; mem. American Vacuum Soc., Smithsonian Nat. Assocs. *Publications:* The Design of High Vacuum Systems, Vacuum Science and Engineering 1965, and research papers in the fields of nuclear physics and particle accelerators. *Address:* 711-4 Terra California Drive, Walnut Creek, Calif. 94595, U.S.A. *Telephone:* (415) 933-3494.

VAN DEN BERGH, Gen. Hendrik Johannes; South African government official and police officer; b. 1915, Orange Free State; m. J. J. ("Kotie") van den Bergh; two s. three d.; ed. Vredefort High School, Orange Free State; joined police as constable 1934; interned for three years at Koffiefontein for opposition to South African mobilization in World War II; Lieut. 1950, Capt. 1953, Major 1959, Lieut.-Col. 1962; Col. and Head of Security Branch 1963; organized Rivonia raid, Poqo and Umkhonto we Sizwe arrests; Brig.-Gen. 1964; African Resistance Movement and South African Communist Party arrests 1964; Maj.-Gen. 1966, Lieut.-Gen. and Deputy Commr. of Police 1968; Security Adviser to Prime Minister 1968; Sec. for Security and Intelligence (head of Bureau for State Security) 1968-78 (resigned); passport seized 1979; rank of Gen. 1968; South African Police Star for Distinguished Service 1967. *Publications:* Foreword in W. G. Pretorius: Communism—Fact and Fable 1968, Chapter in (Editor) G. Kronjé: Kommunisme: Teorie en Praktyk 1969, Article in Journal of Racial Affairs 1972, in The Public Servant 1976. *Leisure interests:* farming, listening to light classical music.

VAN DEN HOVEN, Helmert Frans; Netherlands business executive; b. 25 April 1923, IJsselmonde; m. Dorothy Ida Bevan 1950; one s.; joined Unilever NV, Rotterdam 1938, at London Office 1948-50, at Unilever Office, Turkey 1951-62, Chair. 1958-62; Chair. Van den Bergh en Jurgens BV 1962; Dir. Unilever 1970; Vice-Chair. Unilever Ltd., Chair. Unilever NV 1975-; Kt. of Order of Netherlands Lion 1978. *Address:* Unilever NV, Burg. s'Jacobplein 1, Rotterdam, Netherlands.

VAN DER BEUGEL, Ernst H. (see Beugel, Ernst H. van der)

VAN DER BYL, Pieter Kenyon Fleming-Voltelyn; Rhodesian politician; b. 11 Nov. 1923, S. Africa; ed. Cape Town, Cambridge and Harvard Univs.; tobacco farmer in Rhodesia 1946-; mem. of Parl. 1962-; Deputy Minister of Information 1964-68; Minister of Information, Immigration and Tourism 1968-74, of Foreign Affairs 1974-79, of Defence 1974-76, of Public Service 1976-77, of Information, Immigration and Tourism Sept. 1977-79, Co-Minister April 1978-79; Minister of Transport, Power and Posts in Bishop Muzorewa's Govt. June 1979-; Deputy Leader of Rhodesian Govt. Del. at Geneva talks on future of Rhodesia 1976. *Address:* Ministry of Transport, Salisbury, Zimbabwe Rhodesia.

VAN DER KEMP, Gerald, M.V.O.; French museum curator; b. 5 May 1912; m. Florence Harris; two s. two d.; ed. Institut d'Art et d'Archéologie, Sorbonne; with Musée du Louvre 1936-41; Asst. Musée National d'Art Moderne 1941-45; Curator of the Museums of Versailles, Trianons and Jeu de Paume 1945-53, Chief Curator 1953-, Insp.-Gen. Nat. Museums 1972-; Curator, Claude Monet Foundation at Giverny 1977-; mem. Institut de France; Commdr. de la Légion d'honneur, de l'Ordre des Arts et des Lettres. *Address:* Château de Versailles, Seine-et-Oise, France. *Telephone:* 950-5832.

VAN DER KLAAUW, Dr. Christoph Albert; Netherlands politician and diplomatist; b. 13 Aug. 1924, Leyden; m. Henriette

van Everdingen; five c.; ed. Leyden Municipal Gymnasium, State Univ. of Leyden; entered Ministry of Foreign Affairs as trainee 1952; Legation Attaché, Budapest 1952-53; Staff mem., Western Co-operation Dept. (NATO and European Defence Affairs Section), Ministry of Foreign Affairs; Second Sec., Oslo 1956-59; First Sec., Combined Perm. Netherlands Del. to North Atlantic Council and OEEC, Paris 1959-63; Head of NATO and WEU Political Affairs Section, Ministry of Foreign Affairs, and Sec. of dels. to ministerial NATO and WEU Council sessions 1963-66; Counsellor, Rio de Janeiro 1966-70; Deputy Perm. Rep. to UN, New York 1970-74; Amb. serving as Perm. Rep. at UN and other int. orgs., Geneva 1975-77; Dir.-Gen. for European Co-operation 1977; Minister for Foreign Affairs Dec. 1977-; mem. People's Party for Freedom and Democracy (VVD), Advisory Cttee. on Foreign Policy 1964-66; mem. Telders Foundation 1964-66; fmr. Corresp. mem. Univ. Alumni Fund and advisory mem. student Assen., State Univ. of Leyden; Vice-Chair., Dutch Protestant League, Paris 1961-63, Chair. Assen. of Liberal Reformed Protestants of The Hague and Scheveningen 1964-66; Officer of Order of Orange-Nassau. *Publications:* Political Relations between the Netherlands and Belgium 1919-1939 1953, Integration at the Ministry of Foreign Affairs (article in Internationale Spectator) March 1977. *Leisure interests:* family, water sports, reading, contemporary and 19th century history. *Address:* c/o Ministry of Foreign Affairs, Plein 23, The Hague; Ary Schefferstraat 151, The Hague, Netherlands (Home). *Telephone:* 070-6149-41 (Office).

VAN DER MERWE, Schalk Willem, M.B., CH.B.; South African medical practitioner and politician; b. 18 Sept. 1922, Citrusdal, Cape Prov.; s. of Albertus J. W. and Alida Jacoba van der Merwe; m. Petra Frances Rocher 1947; two s. three d.; ed. Paarl Hoër Jongenskool, Univs. of Cape Town and South Africa; General Practitioner, Dist. Surgeon at Keimoes, Cape Prov. 1947-66; mem. House of Assembly 1966-; Deputy Minister of the Interior, Social Welfare, Pensions and Coloured Affairs 1970-72; Minister of Health, Coloured, Rehoboth and Nama Affairs 1972-76, of Health, Planning, Environment and Statistics 1976-78, of Health, Social Welfare and Pensions 1976-79, of Industrial Affairs and Trade and Consumer Affairs June 1979-. *Address:* House of Assembly, Cape Town, South Africa.

VAN DER POL, Cornelis, PH.D.; South African chemical engineer; b. 26 July 1925, Jutphaas, Netherlands; s. of Paul van der Pol and Neeltje Bosman; m. Fleur Edith de Lange 1951; one s. one d.; ed. Univ. of the Witwatersrand, Univ. of Queensland, Australia; with Sugar Milling Research Inst., Durban 1952-57; Asst. Gen. Man., Doornkop Sugar Co., and later Gen. Man. Ubombo Ranches Ltd., Swaziland 1957-64; Man. Dir. responsible for cane growing, sugar milling and refining operations in S.A., Huletts Group 1964-68; Dir., Huletts Corpn. Ltd. 1968-70, Chief Exec. Officer 1970-72, Group Man. Dir. July 1972-; mem. of the board CSIR 1978-, and of many subsidiary cos. in Huletts Group; mem. Prime Minister's Scientific Advisory Council. *Leisure interests:* music, gardening. *Address:* Private Bag 3, Glenashley, Natal 4022; and 1001 Umhlanga Rocks Drive, La Lucia 4051, South Africa. *Telephone:* 522244.

VAN DER POST, Laurens Jan, C.B.E.; British writer and explorer; b. 13 Dec. 1906, Philippolis, South Africa; s. of C. W. H. Van der Post and Marie Lubbe; m. 1st Marjorie Wendt 1929 (divorced 1947); m. 2nd Ingaret Giffard 1949; one s. one d.; war service in Syria, Africa and the Far East 1939-45; prisoner of war 1943-45; Asst. to British Minister, Batavia 1945-47; leader of several expeditions in Africa for British Govt. and on his own account; produced films The Lost World of the Kalahari 1956, A Region of Shadow 1971, The Story of C. G. Jung 1971, All Africa Within Us 1975; hon. degrees from Univs. of Natal, Surrey, Liverpool, Rhodes. *Publications:* In a Province 1934, Venture to the Interior, A Bar of Shadow 1952, The Face Beside the Fire 1953, Flamingo Feather, The Dark Eye in Africa 1955, The Lost World of the Kalahari 1958, The Heart of the Hunter 1961, The Seed and the Sower 1962, Journey into Russia 1964, A Portrait of All the Russias 1967, The Hunter and the Whale 1967, A Portrait of Japan 1968, The Night of the New Moon 1970, A Story like the Wind 1972, A Far Off Place 1974, A Mantis Carol 1975, Jung and the Story of our Time 1976, First Catch your Eland: A Taste of Africa 1977. *Leisure interests:* walking, skiing, tennis. *Address:* 27 Chelsea Towers, Chelsea Manor Gardens, London, S.W.3, England.

VAN DER STEE, Alphons Petrus Johannes Mathildus Maria; Netherlands politician; b. 30 July 1928, Terheyden, North Brabant; ed. Catholic Univ., Nijmegen; joined Begeijn, van Arkel and Co. 1956, Partner 1960; Chair. Arnhem section, Catholic People's Party 1959-63, mem. Exec. Cttee. and Treasurer, Catholic People's Party 1965, Chair. 1968; Sec. of State for Finance 1971-73; Minister of Agric. and Fisheries 1973-, for Netherlands Antillean Affairs, 1977-. *Address:* Ministry of Agriculture and Fisheries, Bezuidenhoutsweg 73, The Hague, and Office for Netherlands Antillean Affairs, Herengracht 19A, The Hague, Netherlands.

VAN DER STOEL, Max, LL.M., M.A.; Netherlands politician; b. 3 Aug. 1924, Voorschoten; m. Maria Johanna Aritia de Kanter; one s. four d.; ed. Univ. of Leiden; Int. Sec. Labour Party (Partij van de Arbeid) 1958-65; mem. Exec. Board Socialist Int. 1958-65; mem. First Chamber of States-Gen. (Parl.) 1960-63, Second Chamber 1963-65, 1967-73, 1978-; State Sec. of Foreign Affairs 1965-66; mem. Assembly Council of Europe 1967-72; North Atlantic Assembly, European Parl. 1972-73; Minister of Foreign Affairs 1973-77; Pres. Exec. Board, Netherlands Inst. for Peace Research; mem. Koos Vorrink Inst. 1963; Grand Cross Order of Merit (Italy), Order of Republic (Tunisia), Order of the White Rose (Finland) and other decorations. *Address:* Van Kijfhoeklaan 108, The Hague, Netherlands.

VAN HOOVEN, Eckart, DR.JUR.; German company executive; b. 11 Dec. 1925; mem. Man. Board, Deutsche Bank AG; Chair. Supervisory Board Deutsche Bank Saar AG, Giesecke & Devrient GmbH; Deputy Chair. Supervisory Board, Deutsche Kreditbank für Baufinanzierung AG, Schiffshypothekanbank zu Lübeck AG; Deputy Chair. Advisory Council, GEFA Gesellschaft für Absatzfinanzierung GmbH; Chair. Advisory Council, Eurocard Deutschland Int. Kreditkarten-Org. GmbH; mem. Man. Board and Advisory Council, Bundes-SCHUFA Vereinigung der deutschen Schutzgemeinschaften für allgemeine Kreditsicherung e.V.; mem. Advisory Council, Berlinische Lebensversicherung AG, "Hansa" Deutsche Dampfschiffahrts-Gesellschaft, Familie Kurt A. Becher; mem. Supervisory Board, Gebrüder Happich GmbH, Grünzweig Hartmann und Glasfaser AG. *Address:* Deutsche Bank AG, 6000 Frankfurt am Main, Grosse Gallusstrasse 10-14, Federal Republic of Germany.

VAN KEMENADE, Josephus Antonius, PH.D.; Netherlands politician and sociologist; b. 6 March 1937, Amsterdam; m. Anna Maria Nijman 1961; two s. one d.; ed. Catholic Univ., Nijmegen; part-time Research Adviser, Catholic Inst. for Socioecclesiastical Research 1960-65; Dir. Inst. of Applied Sociology 1965; Part-time Lecturer in Sociology of Educ., Catholic Univ., Nijmegen 1965, Senior Lecturer 1969, Prof. 1970, mem. Exec. Board 1972; Minister of Educ. and Science 1973-77; mem. Second Chamber of States-Gen. (Parl.); Chair. Educ. Cttee. of Dr. Wiardi Beckman Inst., Board of Govs., School of Journalism, Working Party on Sociology of Educ., Univs. Inst. for Socioscientific Research (SISWO), Educ. Cttee. of Netherlands Univs. Council; mem. many other educ. cttees. and editorial boards of several publs. *Address:* Tweede Kamer der Staten-Generaal, Binnenhaf 1a, The Hague, Netherlands.

VAN LAETHEM, Gabriel, M.A., LL.M.; French international official; b. 4 Jan. 1918, Paris; m.; three c.; ed. Ecole Supérieure de Commerce et d'Industrie de Lille, Ecole des Sciences Politiques, Paris; fought with French Forces in N. Africa and Italy during World War II; joined diplomatic service; Asst. Consul, Shanghai 1945-48; First Sec., Washington, D.C. 1949-54; First Counsellor to Gen. Commr. for Indo-China 1954; Head of Bilateral Technical Assistance, Paris; Dir.-Gen. of Office of High Commr. of France in Morocco; Sec.-Gen. French Co. of the Sahara 1958; Gen. Man., Dir. of Office of Industrial Co-operation in Algiers 1966-70; Amb. to Australia 1971-74; Under-Sec.-Gen. for Econ. and Social Affairs, UN 1974-78; Senior Adviser Int. Affairs Banque Nat. de Paris 1978-. *Address:* 96 boulevard Maurice-Barrès, 92200 Neuilly-sur-Seine, France.

VAN LYNDEN, Baron Diederic Wolter; Netherlands diplomatist; b. 22 April 1917, Amsterdam; m. Anne Heathcote 1945; two s. one d.; ed. Royal Netherlands Naval Coll., Den Helder; Royal Netherlands Navy 1937-48; Foreign Service 1949-, serving in New York (UN), London, Vienna and three times at Ministry of Foreign Affairs 1949-70; Dir.-Gen. for Political Affairs, Ministry of Foreign Affairs 1970-74; Amb. to Fed. Repub. of Germany Nov. 1974-. *Publications:* articles in Netherlands periodicals on political affairs and on int. law. *Leisure interests:* drawing, reading, swimming, walking, shooting. *Address:* Royal Netherlands Embassy, Strässchensweg 10, 5300 Bonn 1, Federal Republic of Germany. *Telephone:* (02221)-238091.

VAN PRAAGH, Dame Margaret (Peggy), D.B.E.; British ballet director and teacher; b. 1 Sept. 1910; ed. King Alfred School, London; dancer with Dame Marie Rambert 1933; examiner for Cechetti Soc. 1935; dancer, Sadler's Wells Ballet 1941-46; Ballet Mistress Sadler's Wells Theatre Ballet 1946-51; Asst. Dir. to Dame Ninette de Valois 1951-56; Artistic Dir., Borovansky Ballet, Australia 1960-61; Artistic Dir., The Australian Ballet 1962-74, 1978-79; mem. Victorian Council of the Arts, Theatre Board of Australia

Council; Hon. D.Litt. (Univ. of New England, N.S.W.) 1974. *Publications:* How I became a Ballet Dancer, The Choreographic Art (with Peter Brinson). *Address:* Flat 24, 248 The Avenue, Parkville, Victoria 3052, Australia. *Telephone:* 380-5773.

VAN TAMELEN, Eugene Earl, PH.D.; American professor of chemistry; b. 20 July 1925, Zeeland, Mich.; s. of Gerrit van Tamelen and Henrietta (Vanden Bosch) van Tamelen; m. Mary Ruth Hout- 1951; one s. two d.; ed. Hope Coll. and Harvard Univ.; Instructor, Univ of Wisconsin 1950-52, Asst. Prof. 1952-56, Assoc. Prof. 1956-59, Prof. 1959-61, Homer Adkins Prof. 1961-62; Prof. of Chem. Stanford Univ. 1962-, Chair. Dept. of Chem. 1974-; Prof.-Extraordinarius Univ. of Groningen, Netherlands 1967-74; G. Haight Travelling Fellow 1957, Guggenheim Fellow 1965, 1973; Research Stereochem., Biochem., Photochem. and Organic and Inorganic Chem. 1953-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, American Chemical Soc., Chemical Soc., London; Editor Bioorganic Chemistry; Hon. D.Sc. (Bucknell Univ., Hope Coll.); Pure Chemistry Award, American Chemical Soc. 1961, Leo Hendrick Baekeland Award 1965, A.C.S. Award for Creative Work in Synthetic Organic Chem. 1970. *Leisure interests:* architecture and building, theatre, travel, gardening. *Address:* Stanford University, Stanford, Calif. 94035 (Office); 23570 Camino Hermoso, Los Altos Hills, Calif.; 127 Cormorant Way, Pajaro Dunes, Calif., U.S.A.; 1 Smugglers' Cove, Cap Estate, Castries, St. Lucia, West Indies. *Telephone:* 415-497-3507 (Office); 415-941-2356 (Home, Calif.).

VAN VEELEN, Evert; Netherlands business executive; b. 13 Nov. 1911, IJmuiden; m. 1st M. Habermehl (died 1977); six s. three d.; m. 2nd P. J. Farquhart; with Admin. Dept. Hoogovens 1927-31, Commercial Dept. 1931-49, Man. 1949-53; Man. Dir. Wm. H. Müller en Co. NV 1953-65; mem. Man. Board Estel NV Hoesch Hoogovens 1972-75, Chair. Board of Man. 1975-, mem. Supervisory Board 1977-; mem. Man. Board Hoogovens IJmuiden BV 1972-75, Chair. 1975-77, mem. Supervisory Board 1977-; Chair. Man. Bd. Koninklijke Nederlandsche Hoogovens en Staalfabriken NV 1975-, NV DSM, Delta Lloyd NV; Chair. Supervisory Board Vredestein NV; Knight, Order of Netherlands Lion. *Address:* ESTEL NV Hoesch-Hoogovens, Barbarossastraat 35, Nijmegen; De Schouwenburgh, Flat 39, Stoeplaan 9, Wassenaar, Netherlands (Home). *Telephone:* 01751-78956.

VAN VLECK, John Hasbrouck, PH.D.; American professor; b. 13 March 1899, Middletown, Conn.; s. of Edward Burr Van Vleck and Hester Raymond Van Vleck; m. Abigail Pearson 1927; no c.; ed. Univ. of Wisconsin and Harvard Univ.; Instructor in Physics, Harvard Univ. 1922-23; Asst. Prof., Minnesota 1923-26, Assoc. Prof. 1926-27, Prof. 1927-28; Prof. Wisconsin Univ. 1928-34; Prof. Harvard Univ. 1934-, Hollis Prof. of Math. and Natural Philosophy 1951-69, Emer. Prof. 1969-; Dean of Eng. and Applied Physics 1951-57; Guggenheim Foundation Fellow 1930; Lorentz Prof., Leiden Univ. 1960; Eastman Prof., Oxford Univ. 1961-62; Pres. American Physical Soc. 1952; mem. Nat. Acad. of Sciences, American Philosophical Soc., American Acad. of Arts and Sciences; Foreign assoc. of several acads.; many hon. degrees; Albert A. Michelson Award, Case Inst. 1963; Irving Langmuir Prize 1965; Nat. Medal of Science 1966; Lorentz Medal, Netherlands Acad. 1974; Chevalier Légion d'honneur, co-recipient, Nobel Prize for Physics 1977. *Publications:* Quantum Principles and Line Spectra 1926, Theory of Electric and Magnetic Susceptibilities 1932. *Leisure interests:* Japanese prints, travel. *Address:* Lyman Laboratory of Physics, Harvard University, Cambridge, Mass. 02138, U.S.A.

VAN WACHEM, Lodewijk Christiaan; Dutch mechanical engineer and business executive; b. 31 July 1931, Pangkalan Brandan, Netherlands East Indies (now Indonesia); m. Elisabeth G. Cristofoli 1958; two s. one d.; ed. Technological Univ., Delft; joined Bataafsche Petroleum Maatschappij, The Hague 1953; Mech. Engineer, Cía Shell de Venezuela 1954-63; Chief Engineer, Shell-BP Petroleum Devt. Co. of Nigeria 1963-66, Eng. Man. 1966-67, Chair. and Man. Dir. 1972-76; Head Tech. Admin. Brunei Shell Petroleum Co. Ltd. 1967-69, Tech. Dir. 1969-71; Head of Production Div. Shell Int. Petroleum Maatschappij, The Hague 1971-72, Co-ordinator Exploration and Production 1976-; Man. Dir. Royal Dutch Petroleum Co.; mem. Presidium of Board of Dirs., Shell Petroleum N.V.; Man. Dir. Shell Petroleum Co. Ltd.; Hon. C.B.E. 1977. *Address:* Carel van Bylandtlaan 30, The Hague, Netherlands. *Telephone:* 070-773766 (Office).

VAN ZANDT, John Parker, PH.D.; American economist; b. 16 Jan. 1894, Chicago, Ill.; s. of George Van Zandt and Grace Goodspeed; m. Lydia Van Hagan 1937; no c.; ed. Univs. of Chicago, Washington and Calif.; Capt. U.S. Air Service 1918-26; Pres. Scenic Airways 1927-29; European Aviation Rep., Ford Motor Co. 1929-31; Pacific Rep., Pan-American Airways 1935-38; Consultant, Civil Aeronautics Board 1939-42; Senior Staff member, The Brookings Inst. 1942-47; Pres. Aviation Research Inst. 1947-50; Deputy to Asst. Sec. of the Air Force 1950-53; Aviation mem. U.N. Transport Survey Mission to Central America 1952-53; Aircraft Section NATO 1953-59; Pres. European Technical Services 1959-76. *Publications:* European Air Transport on the Eve of War 1940, Geography of World Air Transport 1944, Civil Aviation and Peace 1944, World Aviation Annual (Editor-in-Chief) 1948. *Leisure interests:* travel, golf. *Address:* 300 Hot Springs Road, Apartment 170, Montecito, Calif. 93108, U.S.A.

VANAMO, Jorma Jaakko, L. en D.; Finnish diplomatist; b. 30 Oct. 1913, Mouhijärvi; s. of Eino Jaakko Vanamo and Sigrid Emilia Strunck; m. Hanna Hongisto 1938; two s. one d.; ed. Univ. of Helsinki; Diplomatic Service 1939-, Moscow 1940-41, Ministry of Foreign Affairs 1941-45, Moscow 1945-48, Ministry of Foreign Affairs 1949-51; Counsellor, Stockholm 1951-53, Washington 1954-56; Dir. of Admin. Div., Ministry of Foreign Affairs 1956-58; Amb. to Poland 1958-62, Minister to Romania 1958-60, to Bulgaria 1958-62; Amb. to U.S.S.R., also accred. to Afghanistan and Mongolia 1963-67; Sec. of State, Ministry of Foreign Affairs 1967-70; Amb. to Italy, also accred. to Cyprus and Malta 1970-75; Amb. to Sweden 1975-. *Leisure interests:* music, photography. *Address:* Regeringsgatan 67, 103 82 Stockholm (Office); V. Trädgårdsgatan 13, 111 53 Stockholm, Sweden (Home). *Telephone:* 24 02 70 (Office).

VANCE, Cyrus Roberts, B.A., LL.B.; American lawyer and government official; b. 27 March 1917, Clarksburg, W. Va.; s. of John Carl and Amy Roberts Vance; m. Gracie Elsie Sloane 1947; one s. four d.; ed. Kent School and Yale Univ.; Lieut., U.S. Navy 1942-46; Asst. to Pres. The Mead Corpn. 1946-47; Simpson, Thacher and Bartlett, New York (law firm) 1947-61, Partner 1956-61, 1969; Special Counsel, Preparedness Investigating Subcttee., Cttee. on Armed Services of the U.S. Senate 1957-60; Consulting Counsel to Special Cttee. on Space and Astronautics, U.S. Senate 1958; Gen. Counsel, Dept. of Defense 1961-62; Chair. Cttee. Adjudication of Claims of the Admin. Conf. of the U.S. 1961-62; Sec. of the Army 1962-64; Deputy Sec. of Defense 1964-67; Pres. Johnson's Special Envoy on Cyprus Situation 1967, on Korean Situation 1968; negotiator at Paris talks on Viet-Nam 1968-69; mem. Cttee. investigating Alleged Police Corruption, New York 1970-72; Pres. Bar Assn. of City of New York 1974-76; Chair. UN Devt. Corpn. 1976; Sec. of State Jan. 1977-; fmr. Chair. Board of Rockefeller Foundation; mem. U.S. Supreme Court, American Bar Assn., N.Y. State Bar Assn.; Fellow, American Coll. Trial Lawyers; Medal of Freedom 1969. *Address:* Department of State 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

VANDEPUTTE, Robert M. A. C., D.en D., D en SC. POL. ET SOC.; Belgian banker and university professor; b. 1908, Antwerp; m. Marie-Louise Cauwe 1938; three c.; ed. Univs. of Louvain, Nijmegen, Paris, Berlin and Berne; called to Antwerp Bar 1930-40; Prof. Univ. of Louvain 1936; Cabinet Chief, Ministry of Econ. Affairs 1939-40; Sec.-Gen. Assn. Belge des Banques 1940-42; Dir. Banque Nat. de Belgique 1943-44; Gov. 1971-75; Man. Dir. Société Nat. de Crédit à l'Industrie 1944-48, Pres. 1948-71; Regent Banque Nat. de Belgique 1954-71; mem. Caisse Générale d'Epargne et de Retraite 1958-76; Dir. and mem. Directing Cttee. Société Nat. d'Investissement 1962-71; Pres. Inst. de Réescompte et de Garantie 1973-; Administrateur, Palais des Beaux-Arts de Belgique 1966-; mem. Conseil Supérieur des Finances 1969-71; Pres. Hoger Inst. voor Bestuurs- en Handelswetenschappen 1959-; Commdr. Order of the Crown and Knight Order of Léopold (Belgium); Officer Order of Merit (Italian Repub.); Commdr. Order of St. Gregory the Great (Holy See); Gr. Officer, Order of Léopold II (Belgium), and other awards. *Publications:* Beginselen van Nijverheidsrecht, Handboek voor Verzekeringen en Verzekeringsrecht, Wat ik rondom mij zag, De Overeenkomt; in French: Quelques aspects de l'activité de la Société Nationale de Crédit à l'industrie, Le statut de l'enterprise. *Address:* Hoger Instituut voor Bestuurs- en Handelswetenschappen, 84 Trierstraat, 1040 Brussels (Office); Avenue de Tervueren 282, 1150 Brussels, Belgium (Home). *Telephone:* 511-73-30 (Office).

VANDERPOORTEN, Herman, LL.D.; Belgian politician; b. 25 Aug. 1922; ed. Atheneum Berchem-Antwerp and Rijksuniversiteit te Gent; Attorney 1945; County Councillor, Antwerp 1949-58; Town Councillor and Deputy Justice of the Peace, Lier 1959; mem. Chamber of Representatives 1961-65; Senator 1965; Minister of Interior 1966-68, of Justice 1973-77; Pres. Liberal Flemish Assn. 1957-66. *Address:* Antwerpsesteenweg 2, Lier, Belgium.

VANPRAPAR, Kamol; Thai lawyer; b. 7 Dec. 1908; ed. Ministry of Justice Law School, Nat. Defence Coll.; Public Prosecutor 1930-68; Dir.-Gen. Public Prosecutor's Dept. 1968-72; Minister of Justice

1972-73, of the Interior 1973-74; Knight Grand Cordon, Order of the Crown of Thailand; Knight Grand Cross, Order of the White Elephant. *Address:* 644/3 Samsen Road, Bangkok 3, Thailand. *Telephone:* 815601 (Home).

VAN WYK, Alec; South African security police officer; b. 11 Feb. 1920, Hondeklipbaai; m.; one d.; ed. Garies High School and Univ. of South Africa; joined South African Police 1940, Stationed Hillbrow, Jan Smuts Airport, Springs, then District Commandant, Heidelberg, Tvl.; transferred to Security Police Headquarters 1963, reached rank of Col.; joined Bureau for State Security (now Dept. of Nat. Security) 1969, Chief Deputy-Sec. for Security Intelligence -1978, Sec. July 1978-. *Address:* Department of National Security, Private Bag X87, Pretoria 0001, South Africa.

VARDA, Agnès; French film writer and director; b. 30 May 1928; m. Jacques Demy (*q.v.*); one s. one d.; ed. Sète, Herault, and Univ. de Paris à la Sorbonne and Ecole du Louvre; Official Photographer, Théâtre National Populaire 1951-61; reporter and photographer, film-maker; Prix Méliés 1962 (Cleo de 5 à 7), Prix Louise Delluc 1965 (Le Bonheur), David Selznick Award 1965 (Le Bonheur), Bronze Lion, Venice Festival 1964 (Salut les Cubains), Silver Bear, Berlin Festival 1965 (Le Bonheur); 1st Prize, Oberhausen (Black Panthers), Popular Univs. jury (Lions Love) 1970, Italian Festival, Golden Prize (L'une chante, l'autre pas), Grand Prix Taormina, Sicily 1977. *Full-length films:* La pointe-courte 1954, Cleo de 5 à 7 1961, Le bonheur 1964, Les créatures 1965, Loin du Vietnam 1967, Lions Love 1969, Nausicaa 1970, Daguerreotypes 1975, L'une chante, l'autre pas 1976; *Short-length films:* O saisons, O châteaux 1957, L'opéra-Mouffe 1958, Du côté de la côte 1958, Salut les cubains 1963, Uncle Yanco 1967, Black Panthers 1968, Réponse de femmes 1975, Plaisir d'amour en Iran 1975. *Address:* 86 rue Daguerre, 75014 Paris, France. *Telephone:* 322-66-00.

VARGAS, Lt.-Gen. Jesús Miranda; Philippine army officer and international official; b. 22 March 1905; ed. Manila North High School and Philippine Constabulary Acad.; Philippine Constabulary 1930-36; Philippine Army 1937-51; Chief of Staff 1954-56; Mil. Adviser to SEATO 1954-56; retired from armed forces 1956; Sec. of Nat. Defence 1957-59; Chair. Board of Dirs. Nat. Waterworks and Sewerage Authority 1957-59; Vice-Pres. Philippine-American Life Assurance Co. 1959-78; Pres. Philippine-American Management and Financing Co. 1960-78; Chair. Board of Trustees Ramon Magsaysay Award Foundation 1962-65; Sec.-Gen. South East Asia Treaty Org. (SEATO) 1965-72; many decorations. *Address:* c/o Philippine-American Life Assurance Co., Philamlife Building, UN Avenue, Ermita, Manila, Philippines.

VARGAS LLOSA, Mario; Peruvian writer; b. 28 March 1936; ed. Cochabamba (Bolivia), Univ. Nacional Mayor de San Marcos, Lima, and Universidad de Madrid, Spain; fmr. journalist La Crónica, Lima, La Industria, Piura, and La Radio Panamericana, Lima, Agence-France Presse, Paris; broadcaster on Latin American services of Radiodiffusion Télévision Française; Lecturer in Latin American Literature, Queen Mary Coll., London Univ., series of lectures, Cambridge 1978; mem. Acad. Peruana de la Lengua; Pres. PEN Club 1976-(79); Prix. Leopoldo Alas 1958, Prix. Biblioteca Breve 1962, Critica Española Prize 1963, Rómulo Gallegos Prize 1967. *Publications include:* Los Jefes 1958, La Ciudad y los perros 1962, La Casa Verde 1965, Los Cachorros 1966, Conversación en la Catedral 1970, Pantaleón y las Visitadoras, Captain Pantoja and the Special Service 1978, La Tía Julioa y el escribidor 1978. *Address:* c/o P.E.N., 62-63 Glebe Place, London, S.W.3, England.

VARLEY, Rt. Hon. Eric Graham, M.P.; British politician; b. 11 Aug. 1932, Poolsbrook, Derbys.; m. Marjorie Turner 1955; one s.; ed. Secondary Modern and Technical Schools, and Ruskin Coll., Oxford; apprentice engineer's turner 1947-52; engineer's turner 1952-55; mining industry craftsman 1955-64; Nat. Union of Miners' Branch Sec. 1955-64; mem. Area Exec. Cttee., Derbys. 1956-64; mem. Parl. for Chesterfield 1964-; Asst. Govt. Whip 1967-68; Parl. Private Sec. to Prime Minister 1968-69; Minister of State, Ministry of Technology 1969-70; Sec. of State for Energy 1974-75, for Industry 1975-79; Opposition Spokesman for Employment June 1979-. *Leisure interests:* gardening, reading, sport. *Address:* House of Commons, London, SW1A 0AA, England.

VARMA, Ravindra; Indian politician; b. 18 April 1925, Mavelikkara, Kerala; ed. Maharaja's Coll. of Arts, Trivandrum, Christian Coll., Madras; mem. Madras State United Nat. Students' Org. 1944; took active part in State Congress movement for responsible govt. in Travancore and Mysore states; mem. Quit India Movement; Pres. All-India Students' Congress 1946-49; mem. Int. Exec. of Int. Students' Service—World Univ. Service 1949; Sec. and later Pres., Indian Youth congress; Sec. Indian Cttee. of World Assembly of Youth 1958, Int. Pres. 1958-62; mem. UNESCO Int. Perm. Cttee. for Educ.; mem. third Lok Sabha 1962-67; mem. Janata Party 1977-; mem. Lok Sabha from Ranchi March 1977-; Minister of Parl. Affairs and Labour March 1977. *Address:* Ministry of Parliamentary Affairs and Labour, New Delhi, India.

VÁRNAI, Zseni; Hungarian poetess; b. 25 May 1890, Nagyvázsony; m. Andor Peterdi 1910, one s. one d.; awarded Silver Degree of Order of Liberty for work in movement of nat. resistance during German occupation, and First Degree of the József Attila Prize 1954; awarded Munka erdemrend (Degree of Works) 1958, 1960, Golden Degree of Order of Works 1965, 1968, Literary Prize of Hungarian Trade Union 1969; Literary Prize of the Native Place District Council 1969. *Publications:* Katonafiamnak (To My Soldier Son), Vörös tavasz (Red Spring), Anyasziv (Mother Heart), A fájdalom könyve (Book of Grief), Gracchusok anyja (Mother of the Gracchi), Furulyaszó, Örömök kertje (Garden of Joys), A meselö erdö (The Forest of Tales), Im itt az irds (Lo, Here is the Writing), Kórus szopránban (Soprano Choir), Fekete bárány (Black Lamb), Én mondom és te add tovább, Legyen meg a Te akaratod!, Ég és föld között (Between Earth and Heaven), Mint viharban a falevél (Like a Leaf in the Tempest), A'ldott asszonyok (Blessed Women), Száz vers a szabadságért (Hundred Poems for Liberty), Várnai Zseni válogatott versei 1955, Fényben, viharban (In Light and Lightning) (novel), Igy égtem, énekelten (In Flames I Sang) 1958, Feltámadás (Resurrection) (Dramatic poem) 1959, Peace! (poems), Légy boldog te Világ (O World, Be Happy) (poems) 1961, Élök, vigyázzatok! (People, be on your guard!) (poems) 1962, Nem volt hiába ... (It was not in vain) 1962, Egy asszony a millióok közül (A Woman of the Millions) (autobiography) Vol. I 1963, Vol. 2 1974, Vol. 3 1976, Nyugtalan madár (Restless Bird) (poems) 1966, Ének az anyáról (Songs upon the Mother) 1968, Tündérkert (Fairyland) (poems for children) 1968, Borostyán (Amber) 1969, Idö Heroldja (Time's Herald) 1971, Vers és virág (Song and Flower) 1973. *Address:* Keleti Károly u. 27, H-1024 Budapest 11, Hungary. *Telephone:* 361-346.

VÅRVIK, Dagfinn; Norwegian politician; b. 8 June 1924, Leinstrand; s. of Kristian and Helga Vårvik; m. Bjørg Presttrø 1951; one s. two d.; ed. Univ. of Oslo; Sec. to Parl. Group, Centre Party 1952-61; mem. editorial staff, Nationen 1961-63, Chief Editor 1963-; Minister of Finance Aug.-Sept. 1963, of Prices and Wages 1965-71, of Foreign Affairs 1972-73; Chair. Centre Party 1973-77. *Address:* Senterpartiet, Arbeidergatan 4, Oslo; Theodor Løvstads vei 38, Oslo 2, Norway (Home). *Telephone:* 33.50.90 (Office); 55.76.11 (Home).

VAS, István; Hungarian poet; b. 24 Sept. 1910, Budapest; s. of Pál Vas and Erzsebet Augenstein; m. 1st Etel Nagy 1936, 2nd Maria Kutni 1945, 3rd Piroska Szántó 1951; Publisher's Reader 1946, wrote poems and essays for the Press; noted as translator of plays by Shakespeare, Racine, Schiller, Molière, O'Neill, poems by Apollinaire and Eliot, and novels from French, German and English; Kossuth Prize 1962, Order of Labour 1970, Pro Arte Medal 1972, Chevalier Palmes académiques 1973. *Publications:* Collected Poems I-III: Ki Mást a tud, Rapszodia a Hüségrol, A Tüzlopó; autobiographical novel: Nehéz serelem (Hard Love), Collected Essays I-III: Tengerek nélkül, Uozások és valóságok, Körül-belül. *Address:* H-1013 Budapest, Groza Péter rakpart 17, Hungary (Home). *Telephone:* 151-856.

VASARELY, Victor; French (b. Hungarian) artist; b. 1908; ed. Budapest Bauhaus; studied medicine; settled in Paris 1930; one-man exhbns. Budapest 1929-33, Europe 1945-56, Rose Fried Gallery, New York City 1958, World House Gallery, New York 1961, 1962, Montevideo 1958, Hanover Gallery, London 1962, Pace Gallery, Boston 1962; group exhbns. in Paris, Stedelijk Museum, Amsterdam, Documenta III, Kassel, Gallery Chalette, New York, Sidney Janis Gallery, New York, Solomon R. Guggenheim Museum, New York, and in São Paulo, Rio de Janeiro and Montevideo, Tate Gallery, London 1964; permanently represented in Museum of Modern Art, New York, Musée St. Etienne, Paris, Albright Knox Gallery, Harvard, Tate Gallery, London, Stedelijk Museum, Amsterdam, and in Buenos Aires, Montevideo, Brussels, Reykjavik, São Paulo, Helsinki, etc.; Musée Vasarely at Château de Gordes, Vaucluse, opened 1970; Foundation Vasarely at Aix-en-Provence inaugurated 1976; Musée Vasarely opened in the house where he was born in Pécs, Hungary 1976; Vasarely Centre opened in New York 1978; Hon. Pres. French-Hungarian Assn. 1977, Hon. Corresp. mem. Nuclear Hematology Dept. Inst. Nuclear Engineers (London) 1977, Hon. Life Adviser Assn. des Arts Plastiques UNESCO 1977-; Dr. Sc. Hum. (Cleveland Univ.) 1977; Prix de Critique (Brussels) 1955, Guggenheim Int. Award for Merit 1964, Guggenheim Prize (New York) 1964, Ljubljana Award 1965, São Paulo Biennale Award 1965, Grand Prix de la VIIIème Biennale de

São Paulo 1965, Carnegie Award 1967, Ministry of Foreign Affairs Prize Tokyo Biennale 1967, Painting Prize of Carnegie Inst. 1967, First Prize of Premier Biennale de la Gravure Cracovie (Poland) 1968, Première Palette d'Or Festivale Internationale de Peinture Cagnes-sur-Mer (France) 1969, Int. Art Book Prize for Vasarely II 1971, Int. Diano Marina Prize, Italy, for Discours de la Méthode—Descartes-Vasarely, 1971, Silver Medal for Vasarely II, Int. Book Fair, Leipzig 1971 Cert. of Distinction for Contribution to Aesthetic Philosophy (Univ. of New York) 1978, Der Kaiserring artistic prize (Goslar, Fed. Repub. of Germany) 1978; Hon. citizen of New Orleans 1966, Pécs 1976, Cleveland (Ohio) 1977, Hon. Prof. in Applied Arts, Budapest 1969, Chevalier, Légion d'honneur 1979, Officier l'Ordre nat. du Mérite, Médaille de l'Ordre du Drapeau de la République Populaire Hongroise (with laurels) 1978. *Address:* 83 rue [redacted] Reliques, 77410 Annet-sur-Marne, France.

VÁSÁRY, Tamás; Hungarian concert pianist; b. 11 Aug. 1933; m. Ildiko Kovacs 1967; ed. Franz Liszt Univ. of Music, Budapest under Lajos Hernadi, Jozsef Gat and Zoltan Kodály; first solo performance at age of eight; studied at Franz Liszt Acad. until 1954; remained at Franz Liszt Acad. to teach theory; recitals in Leningrad, Moscow and Warsaw; settled in Switzerland 1958; London debut 1961, New York 1962; debut [redacted] conductor in Menton Festival of Music 1971; has since appeared in Europe, S. Africa, S. America, U.S.A., Canada, India, Thailand, Hong Kong, Australia, Japan and Mexico; Musical Dir. of Northern Sinfonia, Newcastle 79-; records for Deutsche Grammophon; Liszt Prizes: Queen Elizabeth (Belgium), Marguerite Longue (Paris); Chopin Prizes: Int. Competition, Warsaw, Int. Competition, Brazil; Bach and Paderewski Medals (London). *Principal recordings:* three records of works of F. Liszt; eight of works of Chopin, three of works of Rachmaninoff, one each of works of Debussy and Mozart. *Leisure interest:* writing fiction. *Address:* 9 Village Road, London, N.3, England.

VASCONCELLOS MOTTA, H.E. Cardinal Carlos Carmelo de; Brazilian ecclesiastic; b. 1890; ordained priest 1918; Titular Bishop of Algiza 1932; Bishop of São Luis do Maranhão 1935-44; Archbishop of São Paulo 1944-64, of Aparecida 1964-; created Cardinal by Pope Pius XII 1946; fmr. mem. Sacred Congregations of Religious Orders of Ceremonies and of Seminaries and Univs. *Address:* Praça N. Sra. Aparecida 303, 12570 Aparecida, São Paulo, SP, Brazil.

VASEY, Sir Ernest Albert, K.B.E., C.M.G.; Kenyan financial consultant; b. 27 Aug. 1901; m. 1st Norah May Mitchell 1923, 2nd Hannah Strauss 1944, two s.; Nairobi Town Council 1939-50; mem. Kenya Legislative Council 1945, mem. for Health and Local Govt. 1950-51, for Education, Health and Local Govt. 1951-52; Minister for Finance and Development 1952-59; Minister for Finance, Tanganyika 1960-62, Financial and Econ. Adviser, World Bank Development Service 1962-66, Resident Rep., IBRD in Pakistan 1962-66; 2nd Class Brilliant Star of Zanzibar, Hilal-i-Quaid-i-Azam of Pakistan 1966. *Publications:* Report on African Housing 1950, Economic and Political Trends in Kenya 1956. *Leisure interests:* drama, bridge. *Address:* P.O. Box 14235, Nairobi, Kenya. *Telephone:* 25208 (Office); 43461 (Home).

VASHCHENKO, Grigoriy Ivanovich; Soviet politician; b. 1920; ed. Kharkov Engineering Coll. and U.S.S.R. Polytechnic Inst.; factory worker in Kharkov and Nizhny Tagil 1938-58; Party Official 1958-63; First Sec. Kharkov Regional Cttee. CP of Ukraine July 1963-72: Vice-Chair. Ukrainian S.S.R. Council of Ministers 1972-; Cand. mem. Political Bureau. Cen. Cttee. CP Ukraine; mem. CPSU Cen. Cttee. 1966; Deputy to U.S.S.R. Supreme Soviet 1966-; Chair. Planning and Budget Comm., Soviet of Union 1974-; mem. CPSU 1943-; various decorations. *Address:* Ukrainian Council of Ministers, Kiev, U.S.S.R.

VASILIYEV, Vladimir Viktorovich; Soviet ballet dancer; b. 18 April 1940, Moscow; ed. Bolshoi Theatre Ballet School; with Bolshoi Theatre Ballet 1958-; People's Artist of the R.S.F.S.R. 1969; Lenin Prize 1970, Leninist Komsomol Prize 1968, Nijinsky Prize 1964, Grand Prix at Varna Int. Competition 1964, People's Artist of U.S.S.R. 1973. *Principal roles:* The Prince (Nutcracker), Pan (Valpurgis Night), The Poet (Chopiniana), Danila (Stone Flower), Prince Charming (Cinderella), Batyr (Shurale), Andrei (A Page of Life), Basil (Don Quixote), Albert (Giselle), Frondoso (Laurencia), Medjnun (Leili and Medjnun); also appeared in The Humpbacked Horse, Spartacus, Petrushka and Icarus 1978. *Address:* State Academic Bolshoi Theatre of the U.S.S.R., 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

VASS, Mrs. István; Hungarian politician; b. 1915, Budafok; d. of Janós Metzker; m. István Vass 1931; one s. two d.; worker in rubber factory, later welder; mem. Communist Party 1939; mem. Presidium Hungarian Peace Council; M.P. 1953-; Deputy Speaker 1955-63, Speaker 1963-67, Deputy Speaker 1967-71; Sec. Patriotic People's Front 1956-60; Gen. Sec. Democratic Fed. of Hungarian Women 1950-56, Pres. 1956-57; mem. Pres. Council of Hungary. *Leisure interests:* angling, cooking. *Address:* c/o Presidential Council, Kossuth Lajos tér 1/3, H- 1357 Budapest V, Hungary.

VATCHENKO, Aleksey Fedoseevich; Soviet politician. mem. of the Cen. Cttee., CP of Ukraine 1960-, cand. mem. 1961-66, mem. of the Cen. Cttee. CPSU 1966-; mem., Economics Comm., Soviet of Nationalities 1962-66; mem. Comm. for Industry, Transport and Communications, Soviet of the Union 1966-70, mem. Comm. for Educ. Science and Culture, Soviet of the Union 1970-74; mem. Comm. for Industry, Soviet of the Union of the U.S.S.R. Supreme Soviet 1974-76; First Sec. Dnepropetrovsk Regional Cttee. (Agric.), CP of Ukraine 1963-64; First Sec. Cherkessy Regional Cttee., CP of Ukraine, 1964-65; First Sec. Dnepropetrovsk Regional Cttee. CP of Ukraine, 1965-76, Mem., Politburo 1966-, Chair. of the Pres. of the Supreme Soviet of the Ukraine June 1976-; various decorations. *Address:* Supreme Soviet of the Ukraine, Kiev, Ukraine, U.S.S.R.

VAUGHAN, Sir (George) Edgar, K.B.E.; British former professor and diplomatist; b. 24 Feb. 1907, Cardiff; s. of William John and Emma Kate (Caudle) Vaughan; m. Elsie Winifred Deubert; one s. two d.; ed. Cheltenham Grammar School and Jesus Coll., Oxford; Vice-Consul, Hamburg 1931; Second Sec. and Vice-Consul, La Paz 1932-35; Vice-Consul, Barcelona 1935-38; Buenos Aires 1938-44; Chargé d'Affaires and Consul-Gen., Monrovia 1945-46; Consul, Seattle 1946-49; Consul-Gen., Lourenço Marques 1949-53, Amsterdam 1953-56; Minister and Consul-Gen., Buenos Aires 1956-60; Amb. to Panama 1960-63, to Colombia 1964-66; Special Lecturer in History, Univ. of Saskatchewan (Regina Campus) 1966-67, Prof. of History 1967-74 (retd. 1974), Dean of Arts and Science 1969-73; Fellow, Royal Historical Soc. 1965-; Hon. Fellow, Jesus Coll., Oxford 1966-. *Leisure interest:* golf. *Address:* 27 Birch Grove, London, W3 9SP, England.

VAUGHAN, Dame Janet Maria, D.B.E., D.M., F.R.C.P., M.A.; British doctor and university official; b. 18 Oct. 1899, Clifton, Bristol; d. of William Wyana Vaughan and Margaret (née Symonds) Vaughan; m. David Gourlay 1930; two d.; ed. Univ. Coll. Hospital and Somerville Coll., Oxford; Asst. Clinical Pathologist, Univ. Coll. Hospital 1927-29; Rockefeller Travelling Fellow 1929-30; Beit Memorial Fellow 1931-34; Leverhulme Fellow, Royal Coll. of Physicians 1934-35; Clinical Pathologist British Post-Graduate Medical School 1935-39; Dir. N.W. London Blood Supply Depot 1939-45; Principal Somerville Coll. 1945-67, Hon. Fellow 1967-; Chair. Oxford Regional Hospital Board 1950-51; Dir. Medical Research Unit for Research on Bone-Seeking Isotopes 1950-; mem. Royal Comm. for Equal Pay 1944-45, Phillips Cttee. on Econs and Problems of the Provision for Old Age 1953, Commonwealth Scholarship Comm. 1964-, Cttee. on Libraries of Univ. Grants Cttee. 1965-67; Trustee Nuffield Foundation. *Publications:* The Anaemias 1934, The Physiology of Bone 1970, 2nd edn. 1975, The Effects of Irradiation on the Skeleton 1973, and numerous scientific papers. *Leisure interests:* gardening, travel. *Address:* 1 Fairlawn End, First Turn, Wolvercote, Oxford, England. *Telephone:* Oxford 514069.

VAUGHAN, Ralph Thomas, B.A., Q.C., LL.D.; Canadian airline executive; b. 12 July 1919, Halifax; s. of Francis William Vaughan and Lillian Clare Hemsworth; m. Elinore Gavin 1950; three s. one d.; ed. St. Mary's and Dalhousie Univs.; News Editor, Halifax Herald 1946-48; called to Bar of Nova Scotia 1948; Partner, Fielding, O'Hearn & Vaughan 1948-51; Exec. Asst. to Premier of Nova Scotia 1951-54; Asst. to Pres. Canadian Nat. Railways 1955-66, Vice-Pres. CNR, Sec. CNR and Air Canada 1966-72, Vice-Pres., Asst. to Chair., Sec. Air Canada 1971-73, Vice-Pres., Asst. to Chair., Sec. CNR 1972, Senior Vice-Pres. Corporate Services 1976; mem. Board of Govs., St. Mary's Univ. 1970, Cttee. on Property and Devt., St. Mary's Univ. 1972; Hon. LL.D. (St. Mary's Univ.) 1969; Officer Order of St. John of Jerusalem 1978. *Leisure interests:* golf, reading. *Address:* Air Canada, 1 Place Ville Marie, Montreal, Quebec H3B 3P7; 393 Devon Avenue, Town of Mount Royal, Quebec, Canada (Home). *Telephone:* 874-4931 (Office).

VAUGHAN, Sarah; American jazz singer; b. 27 March 1924, Newark, N.J.; d. of Ada Vaughan; m. 3rd Marshall Fisher; one d.; began singing career 1942; has sung with bands of Earl Hines, Billy Eckstine and John Kirby Combo; Vocalist Award, Downbeat 1946-52, Playboy Vocalist Award 1975. *Recordings include:* I'll Wait and Pray, It's Magic, Tenderly, Misty, Broken Hearted Melody, My Funny Valentine, A Foggy Day, The Lamp is Low, Sweet Gingerbread Man, Alone Again (Naturally), Lord's Prayer, The Summer Knows, Rainy Days and Mondays, Over the Rainbow. *Leisure interests:* sewing, golf. *Address:* c/o William Morris Agency, 1350 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

VAUGHN, Jack Hood, M.A.; American diplomatist; b. 18 Aug. 1920; m. Margaret Weld Vaughn; one s. two d.; ed. Univs. of Michigan, Pennsylvania and Mexico. U.S. Marine Corps 1943-46; Univ. Instructor 1946-49; U.S. Information Service, Costa Rica and Bolivia 1949-51; Agency for Int. Devt., Panama, Bolivia, U.S.A., Senegal 1952-61; Regional Dir. for Latin America, Peace Corps 1961-64; Amb. to Panama 1964-65; Asst. Sec. for Latin American Affairs 1965-66; Dir. The Peace Corps 1966-69; Amb. to Colombia 1969-70; Pres. Nat. Urban Coalition 1970-72; Dean Int. Affairs, Fla. Int. Univ. 1972; Dir., Foreign devt., Children's TV Workshop 1972-75; Pres. Planned Parenthood Fed. of America 1975-77; Vice-Pres. in charge, Devt. and Resources Corpn., Iran 1977-79. *Address:* c/o Development and Resources, 1271 Avenue of the Americas, New York, N.Y. 10020, U.S.A.

VÄYRYNEN, Paavo Matti, M.POL.SC.; Finnish politician; b. 2 Sept. 1946, Kemi; s. of Juho Eemeli and Anna Liisa (Kaijankoski) Väyrynen; m. Vuokko Kaarina Tervonen 1968; one s. two d.; mem. Parl. 1970-; Political Sec. to Prime Minister 1970-71; Vice-Chair. Centre Party 1972-; mem. Nordic Council 1972-75; Minister of Educ. 1975-76, of Labour 1976-77; Minister for Foreign Affairs May 1977-. *Publications:* Köyhän asialla (Speaking for the Poor) 1971, On muutoksen aika (This is a Time of Change) 1974. *Address:* Ministry for Foreign Affairs, Ritarikatu 2, 00170 Helsinki 17, Finland.

VÁZQUEZ CARRIZOSA, Alfredo, LL.D.; Colombian lawyer and diplomatist; b. 9 Feb. 1909, Bogotá; s. of Dr. Alfredo Vázquez Cobo and Ana Carrizosa Tanco; m. Lucía Holguín 1961; ed. Université Catholique de Louvain, Belgium; fmr. lecturer in Public Int. Law and Constitutional Law, Bogotá; fmr. Sec.-Gen., Ministry of Foreign Affairs; fmr. Acting Head, Ministry of Foreign Affairs; fmr. Asst. Publisher La República (daily); mem. House of Reps. 1960-62; fmr. Sec.-Gen. of Presidency; fmr. Amb. to Belgium; Rep. to OAS 1964-70; Minister of Foreign Affairs 1970-74; Amb. to U.K. 1975-77; mem. Perm. Court of Arbitration, The Hague 1975. *Publications:* Lectures on Public International Law (2 vols.) 1959-60, Colombia y la Política del Mar 1972, El Concordato 1973, Roncador Quita Sueño y Serrana 1974, Los Derechos Humanos y la Tragedia de Chile 1975, El Nuevo Derecho del Mar 1976. *Leisure interests: music, art, automobiles. Address:* Avenida 25C, No. 4-20, Bogotá, D.E., Colombia.

VEASEY, Josephine, C.B.E.; British (mezzo-soprano) opera singer; b. 10 July 1930, London; m. Ande Anderson 1951 (divorced 1969); one s. one d.; mem. chorus Covent Garden Opera Company 1948-50, returned as soloist 1955; now principal mezzo-soprano, Royal Opera House, Covent Garden; has sung every major mezzo-soprano role in repertory; many recent foreign engagements have included Salzburg Festival, La Scala, Milan, Metropolitan Opera House, New York, and Paris opera; has made recordings with Karajan, Solti and Colin Davis; Hon. R.A.M. *Address:* 13 Ballard's Farm Road, South Croydon, Surrey, CR2 7JB, England. *Telephone:* 01-657 8158.

VEDEL, Vice-Admiral A. H.; Danish naval officer; b. 1 Sept. 1894, Copenhagen; s. of Helge and Charlotte (Braëm) Vedel; m. Kirsten Lützen 1921; two s. two d. Lieut. 1916, Lieut.-Cmmdr. 1923, Commdr. 1932, Capt. 1939, Vice-Admiral 1941; Chair. Danish Del. to Scandinavian Defence Cttee. 1948-49; C.-in-C. Danish Navy 1941-58; fmr. Lecturer in Strategy, Danish Naval Acad.; fmr. Chair. Danish Naval Scientific Society; Vice-Pres. Danish Royal Geographical Soc. 1946-73; Chair. Danish Pearyland Expedition to Greenland, Cttee. for navigation in Greenland Waters 1959; Pres. UNESCO Intergovt. Conf. on Oceanographic Research, Copenhagen 1960; mem. of Cttee. Danish Galathea Expedition round the world; fmr. Board mem. East Asiatic Co. Ltd.; Dr. h.c. (Univ. of Copenhagen). *Address:* Rypevej 13, Hellerup, Copenhagen, Denmark. *Telephone:* Hellerup 4302.

VEEN, Christian van, DR.JUR.SC.; Netherlands politician; b. 19 Dec. 1922, Barneveld; m. Petronilla G. de Korte; one s. one d.; Official Office of the Town Clerk, Rijswijk 1950-60; Town Clerk, Hoogeveen 1960-64, Groningen 1964-67; Parl. Under-Sec. for the Interior 1967-71; Minister of Educ. and Science 1971-73; Pres. Fed. of Netherlands Industry 1974-. *Address:* Prinses Beatrixlaan 5, The Hague, Netherlands. *Telephone:* 814171.

VÉGH VILLEGAS, Alejandro; Uruguayan industrial engineer and politician; b. 22 Sept. 1928; ed. Escuela de Ingeniería de Montevideo, Univ. of Harvard; Prof. Escuela de Ingeniería, Montevideo; Prof. Universidad Nacional de Buenos Aires; consultant in power economy in Venezuela; Planning Adviser, Hidronor S.A., Argentina; Adviser, Planning Ministry of Brazil; Consultant of IDB, OAS, ECLA and IBRD; Under-Sec. of State, Ministry of Industry and Trade 1967; Dir. Planning and Budget Office 1968; Minister of Finance 1974-76; mem. Council of State Aug. 1976-. *Address:* Consejo del Estado, Montevideo, Uruguay.

VEIL, Simone, L.EN.D.; French lawyer and politician; b. 13 July 1927, Nice; d. of André Jacob and Yvonne Steinmetz; m. Antoine Veil 1946; three s. two d.; ed. Institut d'Etudes Politiques de Paris; lawyer; Attaché, Ministry of Justice 1957-59, Asst. 1959-65; Technical Adviser to Office of René Pleven, Keeper of the Seals; Sec.-Gen. Conseil Supérieur de la Magistrature 1970-74; mem. ORTF Admin. Council 1972-74; Minister of Health 1974-77, of Health and Social Security 1977-78, of Health and Family Affairs 1978-79; mem. European Parl. 1979- (Pres. July 1979-); Chevalier Ordre nat. du Mérite; Médailles de l'Educ. surveillée, Médaille pénitentiaire and others; Dr. h.c. (Princetown) 1976, (Weizmann Inst.) 1976. *Publications:* Les données psycho-sociologiques de l'adoption (with Prof. Launay and Dr. Soule) 1969. *Address:* Centre Européan, Kirchberg, P.O. Box 1601, Luxembourg; (Office); 11 Place Vauban, 75007 Paris, France (Home). *Telephone:* 567-55-44.

VELLOSO, João Paulo dos Reis, PH.D.; Brazilian economist and politician; b. 1931, Parnaiba; s. of Francisco Augusto de Castro Velloso; m. D. Gelza Armond da Trinidade Velloso; two s.; ed. Universidade do Estado da Guanabara, Conselho Nacional de Economia, Fundação Getúlio Varga and Yale Univ.; worked at Chamber of Deputies; various posts with IAPI 1953-54; joined Banco do Brasil 1955; Assessor to Pres. 1957-61; Ministry of Finance 1961-62; founder and Sec.-Gen. Inst. of Applied Econ. Research (IPEA), Ministry of Planning; Minister of Planning and General Co-ordination 1969-79. *Address:* c/o Ministério de Planejamento, Brasília, Brazil.

VELTCHEV, Boris Lazarov; Bulgarian politician; b. 1914; ed. secondary-technical education; Sofia Municipality 1933-41; mem. Cen. Dist. Cttee., Bulgarian CP, Sofia 1940, Sec. 1941; political imprisonment 1941-44; successively mem. Sofia Council of Syndicalists, Sec. Municipal Employees Trade Union, Instructor at Regional Cttee. of CP, Sofia 1944-48, Sec. 1948; Deputy Editor Party Activist magazine 1948-49; Sec. Sofia City Cttee. of CP 1949-52; Deputy Head, Trade Union and Youth Dept., Cen. Cttee. of Bulgarian Communist Party 1952-54, Head 1954-59; First Sec. Regional Cttee. of CP, Sofia 1959; Sec. Cen. Cttee. of Bulgarian Communist Party 1959-77, mem. Politburo 1962-77; Chair. of Party and State Control Cttee. of the Party and Council of Ministers 1962-63; Deputy National Assembly; fmr. mem. State Council; Chair. Parl. Group of CP at Nat. Assembly. *Address:* c/o Central Committee of Bulgarian Communist Party, Sofia, Bulgaria.

VENKATARAMAN, Krishnasami, PH.D., D.SC., F.N.A.; Indian university professor; b. 7 June 1901, Madras; s. of P. S. Krishnaswami; m. Shakuntala Subramaniam; one d.; ed. Univs. of Madras and Manchester; Prof. of Organic Chem., Forman Christian Coll., Lahore 1929-34; Reader, Dept. of Chemical Technology, Univ. of Bombay 1935-38, Prof. and Dir. Chemical Tech. Dept. 1938-57; Dir. Nat. Chemical Lab., Poona 1957-66; Pres. Indian Chemical Soc. 1959, 1960; mem. Deutsche Akademie der Naturforscher Leopoldina 1960; Hon. Dr. of D. E. Mendeleev Inst. of Chemical Technology, Moscow 1962; Visiting Prof. Purdue Univ. Feb.-June 1962; Reilly Lecturer, Univ. of Notre Dame March 1962; Hon. mem. Polish Chemical Soc.; Foreign mem. U.S.S.R. Acad. of Sciences 1976; Prof. Seshadri Seventieth Birthday Commemoration Medal, India Nat. Science Acad. 1973. *Publications:* The Chemistry of Synthetic Dyes. Vol. I and II 1952, Editor, Vols. III-VIII 1971-77, The Analytical Chemistry of Synthetic Dyes (Editor) 1977; articles on pure and applied organic chemistry in Review of Textile Progress, Kirk-Othmer's Encyclopaedia of Chemical Technology, Zechmeister's Progress in the Chemistry of Organic Natural Products, Pointers and Pathways in Research 1963, Chemistry of Flavonoid Compounds, The Flavonoids, and over 250 papers, etc. *Leisure interests:* fiction, bridge. *Address:* National Chemical Laboratory, Poona 8, India. *Telephone:* Poona 58399.

VENNAMO, Veikko Emil Alexsander, LL.L.; Finnish politician; b. 11 June 1913, Jaakkima; s. of Emil Fennander and Sivi Haikala; m. Sirkka Tuominen 1944; one s. two d.; Barrister-at-Law 1939; Sec.-Gen. Emergency Resettlement Board 1940-41; Chief, Bureau for Reconstruction of the Rural Districts of Ceded Karelia 1942-43; Acting Chief Resettlement Dept., Ministry of Agric. 1943, Chief 1944-59; M.P. 1945-62, 1966-; accounting and econ. dept. Board of Customs 1960-; mem. Board of Dirs. Treasury Office, and of Programme Council of Finnish Broadcasting Corpn. 1946-47; Chair. Finnish Small Farmers Party (later Rural Party) 1959-; Presidential candidate 1968-78; mem. Helsinki Town Council 1968-72. *Leisure interests:* foreign policy, historical interests, travelling.

Address: c/o Finnish Small Farmers (Rural) Party, Pohhjois—Rautatienkatu 15 B Helsinki; Ritokalliontie 1, 00330 Helsinki 33, Finland. *Telephone:* 48-2915, 86-8076 (summer).

VENTURI, Robert, M.F.A.; American architect; b. 25 June 1925, Philadelphia, Pa.; s. of Robert C. Venturi and Vanna Lanzetta; m. Denise Scott Brown 1967; one s.; ed. Princeton Univ.; Fellow, American Acad. in Rome 1954-56; Assoc. Prof., School of Fine Arts, Univ. of Pennsylvania 1959-65; Charlotte Shepherd Davenport Prof., Yale Univ. 1965-70; Partner, Venturi and Rauch (architects and planners) 1964-; Hon. D.F.A., Rome Prize, American Acad. in Rome. *Publications:* Complexity and Contradiction in Architecture 1966, Learning from Las Vegas (with Denise Scott Brown and Steven Izanour) 1972; numerous articles in professional journals. *Leisure interest:* travel. *Address:* Venturi and Rauch, 333 South 16th Street, Philadelphia, Pa. 19102; 6904 Wissahickon Avenue, Philadelphia, Pa. 19119, U.S.A. (Home). *Telephone:* (215) 735-7400 (Office); (215) 849-1150 (Home).

VENZO, Mario, S.J.; Italian painter; b. 14 Feb. 1900; ed. Accademia di Belle Arti, Venice; painter in Paris 1926-39; entered Society of Jesus 1940; exhibitions in Milan 1951-53, Rio de Janeiro 1955, Turin 1958, Trieste 61, Zürich 1964, Munich and Berne 1965, Monte Carlo and Padua 1966, Turin and Milan 1967, Zürich 1968, Rome 1970; First Prize Ucai, Vicenza 1950, Monte Carlo 1966, Nat. Exhbn. Prize, Milan, Turin 1972. *Major works:* Via Crucis (Lonigo) 1960, Crocefissione (Coll. Pio-Latino-Americano, Rome) 1962, Via Crucis (Villa Cavalletti, Frascati) 1964, Crocefissione (Alte, Vicenza) 1965, Via Crucis (Prospiano) 1967, paintings in Galleria d'Arte di Venezia, Museo Civico di Vicenza, Museo di Brescia, Galleria d'arte Moderna di Milano. *Address:* Aloysianum, Gallarate, Varese, Italy. *Telephone:* 796167.

VERBURGT, Paul Adriaan; Netherlands banker; b. 23 Jan. 1935, Bussum; s. of Dr. G. Verburgt and A. C. (née Koole) Verburgt; m. 1958; one s. one d.; ed. Econ. High School and Private Banking School; Dutch Banking Group, South Africa 1955-57, Belgium 1957-65; joined Bank of America, Antwerp Branch 1965, Man. Rotterdam Branch until 1972, Regional Vice-Pres. for Scandinavia and Benelux countries 1972-73; Sr. Vice-Pres., Head of Int. Financial Centre, London 1973-, Treas. Europe, Middle East and Africa Div. 1973-. *Leisure interests:* photography, vintage cars. *Address:* Hillside, St. George's Hill, Weybridge, Surrey, England. *Telephone:* 51669.

VERCORS (pseudonym of Jean Bruller); French writer, graphic artist and engraver; b. 26 Feb. 1902, Paris; s. of Louis Bruller and Ernestine (née Bourbon) Bruller; m. 1st Jeanne Barusseau (divorced), 2nd Rita Barisse; three s.; ed. Ecole alsacienne, Paris; early career as graphic artist and engraver; Founder Editions de Minuit with Pierre de Lescure 1941; many lecturing tours throughout the world since 1945; mem. PEN Club; Hon. Pres. National Cttee. of Writers. Major works (graphic art and engraving): 21 recettes de mort violente 1926, 1977. Hypothèses sur les amateurs de peinture 1927, Un homme coupé en tranches 1929, Nouvelle clé des songes 1934, L'enfer 1935, Images rassurantes de la guerre 1936, Silence 1937, La danse des vivants (160 prints) 1938, Hamlet (French adaptation, with aqua-forte illustrations) 1965. *Publications:* Le silence de la mer 1941, La marche à l'etoile 1943, Le sable du temps 1945, Les armes de la nuit 1946, Les yeux et la lumière 1948, Plus ou moins homme 1950, La puissance du jour 1951, Les animaux dénaturés 1952, Les pas dans le sable, Portrait d'une amitié 1954, Divagations d'un Français en Chine 1956, Colères 1956, P.P.C. 1957, Sur ce rivage Vol. 1 1958, Vol 2 1958, Vol. 3 1960, Sylva 1961, Zoo ou l'assassin philanthrope (play) 1963, Les chemins de l'être (with P. Misraki) 1965, Quota ou les pléthoriens (with P. Coronel) 1966, La bataille du silence 1967, Le radeau de la Méduse 1969, Le fer et le velours (play) 1969, Oedipe (play) 1970, Hamlet et Oedipe 1970, Contes des cataplasmes (children) 1971, Sillages (novel) 1972, Sept sentiers du désert (short stories) 1972, Questions sur la vie 1973, Comme un frère (novel) 1973, Tendre naufrage (novel) 1974, Ce que je crois (essay) 1975, Je cuisine comme un chef (cookery book) 1976, Les chevaux du temps (novel) 1977, Macbeth (play) 1977, Sens et non-sens de l'histoire (essay) 1978, Théâtre (2 vols.) 1978, Camille ou l'enfant double (for children) 1978. *Address:* Moulin des Iles, St. Augustin, 77120, France.

VERDAN, Claude-Edouard; Swiss hand surgeon; b. 21 Sept. 1909, Yverdon; s. of Edouard and Adeline (née Henrioud) Verdan; m. Sylva Malan 1934; one s. one d.; ed. Faculty of Medicine, Univ. of Lausanne; Graduate in Medicine, Conféd. helvétique (Lausanne); Doctor of Medicine, Univ. of Zürich; specialist in surgery, Foederatio Medicorum Helveticorum (FMH); Chief surgeon, Clinique chirurgicale et Permanence de Longeraie, Lausanne; Prof. Univ. of Lausanne; Sr. Dean Faculty of Medicine 1972-74; mem. Cttee. Soc. suisse de chirurgie plastique et reconstructive (Pres. 1972-74); mem. Council of Faculty of Medicine, Univ. of Lausanne; mem. Cttee. French Soc. of Hand Surgery (Pres. 1975-76); Head of Policlinique chirurgicale universitaire; Pres. Soc. suisse de médecine des accidents et des maladies professionnelles 1961-66; Pres. Soc. française de chirurgie plastique et reconstructive 1964; Sec.-Gen. and Founder, Groupe suisse d'étude de chirurgie de la main 1966-72; Pres. Comm. for war surgery, Fed. Mil. (Defence) Dept. (médecin-Colonel) 1965-69; Pres. numerous Congresses and symposia; Corresp. mem. British Soc. for Surgery of the Hand 1959, Belgian Soc. for Forensic Traumatology 1963, Italian Soc. for Hand Surgery 1970; Assoc. mem. Acad. of Surgery, Paris 1974; Hon. mem. American Soc. for Surgery of the Hand 1960, Swiss Soc. for Medicine in Casualty 1966, Swiss Soc. for Orthopedics 1967, German-speaking Assen. for Hand Surgery 1971, Soc. vaudoise de médecine 1975, Spanish Soc. for Hand Surgery; Specialist F.M.H. in plastic and reconstructive surgery 1977; Gold Medal Prix César Roux (Faculty of Medicine, Lausanne) 1933. *Publications:* numerous books and articles on hand surgery. *Leisure interests:* music, gardening, swimming, skiing, travelling. *Address:* 9 avenue de la Gare, 1003 Lausanne, Switzerland. *Telephone:* Office: 20.33.04 (021); Home: 22.22.10.

VERDEŢ, Ilie; Romanian politician; b. 10 May 1925, Comăneşti, Bacău County; ed. Acad. of Econ. Studies, Bucharest; mem. Romanian CP (RCP) 1945-; worked in the Party local organs of Banat Region 1948-54; Head of Section in Central Cttee. RCP 1954-, First Sec. Hunedoara Regional Party Cttee. 1954-65; mem. Central Cttee. RCP 1960-; mem. Grand Nat. Assembly 1961-; Alt. mem. Exec. Cttee. of Central Cttee. of RCP 1965-66, mem. 1966-; mem. Perm. Presidium of Central Cttee. 1966-74, mem. Standing Bureau Exec. Political Cttee. 1977-, Sec. Cen. Cttee. 1974-78; Deputy Chair. Council of Ministers 1965-66, First Deputy Chair. 1966-74, First Vice-Prime-Minister March 1978-; Chair. Cen. Council of Workers' Control over Econ. and Social Activity 1974-78; Vice Chair. Supreme Council on Social and Econ. Devt. 1973-; Chair. State Planning Cttee. March 1978-; Hero of Socialist Labour 1971. *Address:* Comitetul de Stat al Planificării, Calea Victoriei 152, Bucharest, Romania. *Telephone:* 50-50-20.

VERDIER, Abel; French diplomatist; b. 15 March 1901, Lille; m. Suzanne Maertens 1935; two s. two d.; ed. Lycées Lakanal et Janson de Sailly and Université de Paris à la Sorbonne; Asst. Consul, London 1930-35; Consul, Saarbrücken 1935-39; mem. French Mission for Econ. Warfare, England 1939-40; Ministry of Foreign Affairs 1941-50; Amb. to Colombia 1950-55, to UNRWA, Beirut 1955-57, to Finland 1960-64; Ministry of Foreign Affairs 1964-67, retd.; Officier Légion d'honneur, Médaille de la Résistance, Croix de guerre (1939-45) and foreign decorations. *Publications:* La Constitution fédérale de la République d'Autriche 1924, Manuel pratique des consultats 1933, 1947, 1957, 1963, 1974, Formulaire à l'usage des consultats 1947, 1957, 1963, 1974, Les amours italiennes de Lamartine—Graziella et Lena 1963, La vie sentimentale de Lamartine 1970, 1972, A la recherche de la vérité-études historiques et littéraires 1978. *Leisure interests:* history, literature, gardening. *Address:* 8 rue du Général Camou, 75007 Paris, France. *Telephone:* 705-56-63.

VERDON-SMITH, Sir (William) Reginald, Kt.; British business executive; b. 5 Nov. 1912, London; s. of late Sir William George Verdon-Smith, C.B.E., and Florence Jane (Anders) Verdon-Smith; m. Jane Margaret Hobbs 1946; one s. one d.; ed. Repton School and Brasenose Coll., Oxford; Pres. Soc. of British Aircraft Constructors 1946-48; Chair. British Aircraft Corpn. (Holdings) Ltd. 1968-72; Deputy Chair. Lloyds Bank Ltd. 1967-79, Dir. 1967-; Chair. Lloyds Bank Int. Ltd. 1973-79, Dir 1973-; Chair. Bristol Regional Board April 1976-. *Leisure interests:* golf, sailing. *Address:* Lloyds Bank Ltd., 71 Lombard Street, London EC3P 3BS; 13 Redcliffe Parade West, Bristol BS1 6SP, England. *Telephone:* 01-626 1500.

VERDROSS, Alfred, DR.IUR.; Austrian jurist; b. 1890, Innsbruck; s. of Ignaz and Edda Verdross Edler von Drossberg; m. 1st Elisabeth Maurocordato 1917 (died 1952), 2nd Trude Kren 1953 (died 1968); three d.; ed. Vienna, Munich and Lausanne Univs.; Prof. Vienna Consular Acad. 1922-38; Prof. of Int. Law and Philosophy of Law Vienna Univ. 1924-, Dean of Law Faculty 1931-32, 1947-48 and 1958-59, Rector of the Univ. 1951-52; mem. UN Int. Law Comm. 1957-66; Hague Perm. Court of Arbitration 1958-77; Judge, European Court of Human Rights 1959-77; Pres. Int. Conf. in Vienna for the codification of the law of diplomatic relations 1961; mem. Austrian Acad. of Sciences; hon. mem. Inst. of Int. Law, Vice-Pres. 1952, Pres. 1959-61; Dr. h.c. (Univs. of Salamanca, Paris, Frankfurt, Vienna, Salzburg, Innsbruck, Louvain and Salonika); Austrian Hon. Medal for Arts and Sciences, Grand Cross of St. Sylvester, Order of Malta, Order of Alphonso the Wise (Spain). *Publications:* Die Einheit des rechtlichen Weltbildes 1923, Die Verfassung der Völk-

errechtsgemeinschaft 1926, Grundlinien der antiken Rechts- und Staatsphilosophie (2nd edn.) 1948, Abendländische Rechtsphilosophie 1958 (2nd edn. 1963), Völkerrecht (5th edn.) 1964; important papers in the Recueil des cours de l'académie de droit international include Le fondement du droit international 1927, Les règles générales du droit international de la paix 1929, Idées directrices de l'Organisation des Nations Unies 1953, Statisches und dynamisches Naturrecht 1971, Die Quellen des universellen Völkerrechts 1973, Universelles Völkerrecht (with Prof. B. Simma) 1976, The Permanent Neutrality of Austria 1978. *Leisure interest:* walking. *Address:* Pokornygasse 23, 1190 Vienna, Austria. *Telephone:* 36-32-96.

VEREY, Michael John, T.D., M.A.; British merchant banker; b. 12 Oct. 1912, London; s. of late Henry Edward Verey and late Lucy Alice Verey; m. Sylvia Mary Wilson 1947; two s. one d.; ed. Eton Coll., Trinity Coll., Cambridge; joined Helbert Wagg and Co. Ltd. 1934; served in Warwickshire Yeomanry, Middle East and Italy becoming Lieut.-Col. 1939-45; Chair. Brixton Estate Ltd. 1971, Schroders Ltd. 1973-77, Accepting Houses Cttee. 1974, Broadstone Investment Trust Ltd., Charities Official Investment Fund 1974-; Vice-Chair. Commercial Union Assurance Co. Ltd. 1975-78, Deputy Chair. 1978-; Dir. Boots Co. Ltd. (Vice-Chair. 1978-), British Petroleum Co. Ltd., Invest. SpA (Italy), Negit S.A. (Luxembourg); mem. Covent Garden Authority 1961-66, Inst. of Directors; mem. and Vice-Pres. British Bankers' Assn.; High Sheriff of Berkshire 1968-77. *Leisure interests:* gardening and travel. *Address:* Flat 16, No. 1 Sloane Court East, London, S.W.3; Little Bowden, Pangbourne, Berkshire, England. *Telephone:* 01-730 6946 (London); Pangbourne 2210.

VERGHESE, Boobli George; Indian journalist; b. 21 June 1927, Maymyo; s. of Lt.-Col. G. and Anna Verghese; m. Jamila Barakatullah; two s.; ed. The Doon School, Dehra Dun, St. Stephen's Coll., Delhi and Trinity Coll., Cambridge; Asst. editor, The Times of India Bombay 1949, transferred to New Delhi Bureau 1951; Chief, New Delhi News Bureau, Times of India 1956-62; Asst. Editor, Times of India, Bombay 1962-66; Information Adviser to Prime Minister of India 1966-68; Editor, Hindustan Times 1969-75; Magsaysay Award for Journalism 1975. *Publications:* Himalayan Endeavour 1962, Our Neighbour Pakistan 1964, Design for Tomorrow 1965, Beyond the Famine 1967, An End to Confrontation 1972. *Leisure interest:* music. *Address:* c/o The Hindustan Times, Post Box 40, New Delhi 1, India. Telephone: 387707.

VERGHESE, Rev. Thadikkal Paul (*see* Gregorios, Bishop Paul).

VERHOOGEN, John, PH.D.; American professor of geophysics; b. 1 Feb. 1912, Brussels, Belgium; s. of Dr. René Verhoogen and Lucy Vinçotte; m. Ilse Goldschmidt 1939; two s. two d.; ed. Univs. of Brussels and Liège and Stanford Univ.; Asst. Univ. of Brussels 1936-39, Fonds National de la Recherche 1939-40; with Mines d'Or de Kilo-Moto 1940-43; Gov.-Gen. Belgian Congo 1943-46; Prof. of Geophysics, Univ. of Calif. at Berkeley 1947-77, Prof. Emer. 1977-; mem. Nat. Acad. of Sciences; Day Medal, Geological Soc. of America. *Publications:* Igneous and Metamorphic Petrology (with F. J. Turner) 1951, Metamorphic Reactions (with F. J. Turner and W. S. Fyfe) 1958, The Earth 1970. *Leisure interest:* doing nothing. *Address:* Department of Geology and Geophysics, University of California, Berkeley, Calif. 94720; 2100 Marin Avenue, Berkeley, Calif. 94707, U.S.A. (Home). *Telephone:* 415-642-2575 (Office); 415-526-8061 (Home).

VERITY, Calvin William, Jr., B.A.; American steel executive; b. 26 Jan. 1917, Middletown, Ohio; s. of C. William Verity, Sr. and Elizabeth O'Brien Verity; m. Margaret Burnley Wymond 1941; two s. one d.; ed. Phillips Exeter Acad. and Yale Univ.; with Armco Steel Corpn., Middletown, Ohio 1940-, Dir. Org. Planning and Devt. 1957-61, Dir. of Public Relations 1961-62, Asst. to Pres. 1962-63, Vice-Pres. and Gen. Man. 1963-65, Exec. Vice-Pres. 1965-66, Pres. 1965-71, Chair., Chief Exec. Officer 1971-; Dir. U.S. Chamber of Commerce, First Nat. Bank, Middletown, Mead Corpn., Dayton, Ohio, Business Int., New York, Taft Broadcasting Co., Cincinnati, Chase Manhattan Bank, New York; mem. Pres. Export Council Co-Chair, U.S.-U.S.S.R. Trade and Econ. Council, New York; Chair. Board of Trustees Ford's Theatre Soc., Washington D.C.; Hon. D.H., (Univ. of Dayton); Hon. B.A. (S. Dak. School of Mines and Tech., Ohio Northern Univ.), Hon. LL.D. (Xavier Univ.), Hon. D.Hum. Litt. (Ohio Univ.). *Leisure interests:* golf, hunting, tennis. *Address:* Armco Inc., Middletown, Ohio; 600 Thorn Hill Lane, Middletown, Ohio, U.S.A. (Home). *Telephone:* 513-423-8689.

VERMA, Brij Lal, LL.B.; Indian politician; b. 1916, Vallari village, Raipur district; ed. Nagpur Univ.; participated in Quit India Movement whilst a student; legal practice in Baloda Bazar, Raipur district; provided free legal aid to poorer sections of society; elected to Vidhan Sabha (legislature) of Madhya Pradesh 1952; fmr. mem. Socialist Party; mem. Indian Nat. Congress 1965-67; Minister of Irrigation, Land, Planning and Devt. in State Govt. 1967-69; mem. Jana Sangh Party 1970-77, Pres. Madhya Pradesh Branch 1974-77; detained during Emergency June 1975; mem. Janata Party Jan. 1977-; mem. Lok Sabha from Mahasamund, Madhya Pradesh 1977-; Minister for Industries March-July 1977, for Communications July 1977-; associated with many Kisan and co-operative orgs.; Chair. Janpad Sabhas in Raipur. *Address:* Ministry of Communications, New Delhi, India.

VERNE, Claude Marie Jean, D.MED., D.SC.; French physiologist; b. 4 Oct. 1890, Saint-Julien; m. Louise Douin 1912; three c. (one died 1968); ed. Paris Univ.; Prof. sans chaire, Univ. de Paris 1932, of Biology 1946, of Histology 1955-62, Hon. Prof. 1962-; Dir. Institut d'Histochimie; Gen. Sec. Assen. Française pour l'Avancement des Sciences 1926-; Pres. de l'Académie de Médecine 1968; Vice-Dean Paris Faculty of Medicine 1946-62; mem. European Tissue Culture Club; Founder-Pres. Soc. française d'Historochimie. *Publications:* Les pigments dans l'organisme animal 1919-29, Recherches histophysiologiques sur poumon et graisses 1923-26, Recherches sur les cultures des tissus 1930, 1946, Histochimie des graisses 1928-36, 1938-42, Précis d'histologie 1960, La vie cellulaire hors de l'organisme 1937, Recherches histochimiques sur les enzymes 1946-61, sur les glandes surrénales et le pancréas 1950-57, sur l'autohistoradiographie avec S.35 1956-58, Etudes sur les cellules hépatiques cultivées in vitro 1960-66, L'histologie 1966, La culture de tissus (with Hébert) 1967. *Address:* 38 rue de Varenne, Paris 7e, France.

VERNEJOUL, Robert de; French professor of clinical surgery; b. 28 March 1890, Montcaret, Dordogne; s. of E. de Vernejoul and Lucie Laurens; m. Madeleine Hotz 1926; two s. one d.; ed. Lycée Blaise Pascal, Clermont Ferrand and Facultés de Médecine, Paris and Marseilles; founder and Head Centre for Cardiac Surgery, Marseilles 1955-63 and Prof. of Clinical and Experimental Surgery, Faculté de Médecine, Marseilles, Hon. Prof. 1963-; Pres. Conseil nat. de l'Ordre des Médecins 1956-70, Hon. Pres. 1970-; mem. Institut Français (Acad. des Sciences), Acad. nationale de Médecine; Grand Officier, Légion d'honneur; Croix de guerre; Médaille de la Résistance. *Leisure interest:* golf. *Address:* 96 rue Sylvabelle, 13 Marseilles 6e, France. *Telephone:* 37-56-47.

VERNER, Paul; German politician; b. 26 April 1911, Chemnitz; fmr. metal worker; mem. Kommunistische Partei Deutschlands 1929-46; Editor-in-Chief Junge Garde 1933; in Spanish Civil War 1936-39; prison in Sweden 1939-43, fitter in Sweden 1943-45; returned to Germany 1945, Co-founder Freie Deutsche Jugend (FDJ) 1946; mem. Secretariat Cen. Council of FDJ 1946-49; mem. Cen. Cttee. Sozialistische Einheitspartei Deutschlands (SED) 1950-, mem. Secretariat 1950-53, 1958-; mem. Volkskammer 1958-; Sec. Greater Berlin District SED 1959-71; Cand. mem. Politburo, SED 1958-63, mem. 1963-; Sec. for Security, Secretariat of Cen. Cttee. 1971; mem. Council of State 1971-; Vaterländischer Verdienstorden in Silver and Gold and other decorations. *Address:* Sozialistische Einheitspartei Deutschlands, 102 Berlin, Am Marx-Engels Platz 2, German Democratic Republic.

VERNEUIL, Henri; French film director; b. 15 Oct. 1920, Rodosto, Turkey; m. (divorced); one s. one d.; Journalist and critic 1944-48; made 30 short films 1948-50, 29 long films 1950-78; Best Foreign Language Film (U.S.A.) 1963, Victoire du Cinéma Français 1963, Mystery Writers' Award (U.S.A.) 1964. *Films include:* La vache et le prisonnier 1959, Le Président 1960, Un singe en hiver 1962, Melodie en sous-sol (Any Number Can Win) 1963, Weekend à Zuydcoote (1964), La 25ème petite 1966, Le clan des siciliens 1969, La casse 1970, Le serpent 1972, Peur sur la ville 1975, Le corps de mon ennemi 1976. *Leisure interest:* magic. *Address:* 21 rue du Bois de Boulogne, 92200 Neuilly-sur-Seine, France.

VERNIER-PALLIEZ, Bernard Maurice Alexandre, L. ES D.; French business executive; b. 2 March 1918; m. Denise Silet-Pathe 1952; one s. three d.; ed. Ecole Libre des Sciences Politiques, Ecole des Hautes Etudes Commerciales; Head of Welfare Régie Nationale des Usines Renault 1945-47, Sec. to Sec.-Gen. 1947-48, Sec.-Gen. 1948-67, Deputy Man. Dir. 1967-71, Pres. Dir.-Gen. 1976-; Pres., Dir.-Gen. SAVIEM 1967-74; Del.-Gen. for commercial vehicles, coaches and buses, Régie Renault 1975-76; Pres. Berliet 1975-76; Vice-Pres. Supervisory Board of SAVIEM 1975-76; mem. Advisory Council Banque de France; Officier de la Légion d'honneur, Croix de guerre, Médaille de la Résistance. *Address:* R.N.U.R., 34 quai du Point du Jour, 92109 Boulogne-Billancourt, France. *Telephone:* 609-64-14.

VERNON, Sir James, C.B.E., PH.D.; Australian business executive; b. 13 June 1910, Tamworth; s. of Donald Vernon; m. Mavis Lonsdale-Smith; two d.; ed. Sydney Univ., Univ. Coll. London; Chief Chemist, Colonial Sugar Refining Co. Ltd. (C.S.R.) 1938-51, Senior Exec. Officer 1951-56, Asst. Gen. Man. 1956-57, Gen. Man. 1958-72; Dir. C.S.R. Ltd. 1978, Chair 1978-; Dir. Commercial Banking Co. of Sydney Ltd., M.L.C. Ltd., United Telecasters Sydney Ltd., Westham Dredging Co. Pty. Ltd.; Chair. Martin Corpn. Ltd., Commonwealth Cttee. of Econ. Inquiry 1963-65, Australian Post Office Comm. of Inquiry 1973-74; Pres. Australian Nat. Cttee., Pacific Basin Econ. Council; mem. Chase Manhattan Int. Advisory Cttee., Wells Fargo Bank Int. Advisory Council; Fellow, Royal Australian Chemical Inst.; Hon. D.Sc. (Sydney and Newcastle); Leighton Memorial Medal, Royal Australian Chemical Inst. 1965; John Storey Medal, Australian Inst. of Management 1971. *Leisure interests:* fishing, theatre, music. *Address:* 27 Manning Road, Double Bay, N.S.W. 2028, Australia.

VERNON, William Michael; British business executive; b. 17 April 1926, Cheshire; s. of late Sir Wilfred Vernon; m. 1st Rosheen O'Meara 1952 (dissolved 1977); one s.; m. 2nd Jane Kilham-Roberts 1977; ed. Marlborough Coll. and Trinity Coll., Cambridge; joined Spillers (millers and animal food manufacturers) as trainee 1948, Dir. 1960-, Joint Man. Dir 1962-67, Deputy Chair. 1967-68, Chair. Aug. 1968-; Dir. Electrical and Musical Industries Ltd. 1973-; Pres. British Food Export Council 1977-. *Leisure interests:* sailing, shooting, skiing. *Address:* Spillers Ltd., Old Change House, Cannon Street, London, E.C.4. (Office); 48 Paultons Square, London, S.W.3, England (Home).

VERNOV, Sergey Nikolayevich; Soviet physicist; b. 11 July 1910, Sestroretsk, St. Petersburg (now Leningrad) Region; ed. Leningrad Polytechnic Inst.; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-68, Academician 1968-; mem. I.G.Y. Cttee. of the U.S.S.R. 1957; in Radium Inst., U.S.S.R. Acad. of Sciences 1931-36; P. N. Lebedev Inst. of Physics, Acad. of Sciences 1936-; Prof. Moscow Univ. 1944-; State prizewinner 1949; Lenin Prize 1960; Order of Lenin and other awards. *Publications:* Latitudinal Effect of Cosmic Rays in the Stratosphere and Verification of Cascade Theory 1945, Study of Interaction of Primary Components of Cosmic Rays with Matter in the Stratosphere 1949, Study of Cosmic Rays 1958, Discovery of Research on Radiation Belt of the Earth 1960, Investigation of the Earth's Radiation Belts at Altitude of 0-400 kilometres 1964, On the Asymmetry of Intensity of Fast Electrons in Conjugated Points at Certain Heights 1964, A Study of Cosmic Rays at Altitudes of 200-400 km. 1965. *Address:* Moscow State University, Leninskie Gory, Moscow, U.S.S.R.

VERONESE, Vittorino, D.IUR.; Italian administrator; b. 1 March 1910; fmrly. Ed. Studium; fmr. Gen. Sec. Catholic Movement of Univ. Graduates, Prof. Inst. of Social Sciences, Athenaeum Angelicum, Rome, Pres. Catholic Action, Pius XII Foundation, Cen. Inst. of Credit, Consorzio di Credito per le Opere Publiche; Sec. Perm. Int. Congress of Lay Apostolate, Rome; mem. Italian Del. to UNESCO 1948-58; mem. Italian Nat. UNESCO Comm.; mem. UNESCO Exec. Board 1952-56, Pres. 1956-58; Dir.-Gen. UNESCO 1958-61; resgnd. Nov. 1961; Chair. Board of Dirs. of Banco di Roma 1961-76, Vice-Chair. Banco di Roma (France), Paris, Banco di Roma (Belgium), Brussels; Vice-Chair. Banco di Roma (Ethiopia), Addis Ababa; Dir. and mem. Exec. Cttee. of Fondazione Cini, Venice; Dir. Società Italiana per l'Organizzazione Internazionale; Chair. Italian Cttee. for Human Rights; mem. Pontifical Comm. for Justice and Peace, Vatican City 1967; Vice-Pres. Int. Consultative Liaison Cttee. for Literacy, UNESCO. *Address:* c/o Banco di Roma, 307 Via del Corso, Rome, Italy.

VEROSTA, Stephan Eduard, LL.D.; Austrian lawyer and diplomatist; b. 16 Oct. 1909, Vienna; s. of Rudolf Verosta and Elisabeth (née Szalay) Verosta; m. Maria Stuehler 1942; two s. one d.; ed. Gymnasium, Vienna, Univ. of Vienna and studied in Paris, Geneva and Acad. of International Law, The Hague; legal practice 1932-35, Judge 1936; Legal Dept., Austrian Foreign Office 1935-38, Deputy Legal Adviser 1945-48, 1949-51; Counsellor, Austrian Legation, Rome, Minister, Budapest 1951-52; Head of Legal Dept., Foreign Office 1953-56; Amb. to Poland 1956-61; Austrian Del. to various int. confs. and UN; mem. Perm. Court of Arbitration, The Hague 1957-; Consultant to Foreign Office 1962-; Dozent in Int. Law, Univ. of Vienna 1946, Prof. of Int. Law, Jurisprudence and Int. Relations 1962-; Chair. U.S.-Finnish Comm. of Conciliation 1964-; mem. Dutch-Fed. German Comm. of Conciliation, Inst. de Droit Int. 1961; mem. Founding Cttee. UN Univ. 1972; mem. Appeals Board, Council of Europe 1974; mem. Int. Law Comm. of UN 1977-, Council, UN Univ. 1977-; mem. Austrian Acad. of Science 1964; numerous decorations. *Publications:* Les avis consultatifs de la Cour Permanente de Justice Internationale, etc. 1932, Jean Dumont und seine Bedeutung für das Völkerrecht 1934, Liberale und planwirtschaftliche Handelspolitik (with Gottfried Haberler) 1934, Richterliches Gewohnheitsrecht in Österreich 1942, Die Satzung der Vereinten Nationen 1946, Die internationale Stellung Österreichs von 1938-1947 1947, Die geschichtliche Kontinuität des österreichischen Staates und seine europäische Funktion 1954, Johannes Chrysostomus, Staatsphilosoph 1960, Geschichte des Völkerrechts 1964, International Law in Europe and Western Asia between 100-650 A.D. 1966, Dauernde Neutralität 1967, Theorie und Realität von Bündnissen Heinrich Lammasch, Karl Renner und der Zweibund 1897-1914 1971, L'histoire de l'Académie de Droit International de la Haye 1973. *Leisure interests:* collecting old books, stamps. *Address:* 1180 Vienna, Hockegasse 15, Austria. *Telephone:* 47-13-48.

VERRET, (Baron) Louis Joseph Alexandre, B.A., B.S., LL.M.; Haitian journalist, teacher and diplomatist; b. 5 June 1914, Port-au-Prince; s. of Baron Ciceron L. Verret and Virginia Vallès-Verret; m. Denise Gabriel 1946; three d.; ed. Inst. St. Louis de Gonzague, Port-au-Prince, and Faculté de Droit, Port-au-Prince; Asst. Dir. of La Tribune (newspaper) 1942; Prof. of Social Sciences, Univ. of Haiti 1946-58; Attaché 1958-59, Second Sec. 1959-60, First Sec. 1960, Consul-Gen. of Haiti 1960, Minister-Counsellor 1971; Alt. Rep. to UN Gen. Assembly 1960-61, Rep. for Haiti on several UN cttees. 1961-; Rep. to UN Gen. Assembly 1963-; Amb., Deputy Perm. Rep. of Haiti to UN 1973; Vice-Pres. UN Gen. Assembly 1974-; Vice-Chair. Haitian Del. to UN Gen. Assembly (31st session) 1976; Chair. Haitian Del. to UN Conf. on Law of the Sea 1976; mem. "Le Cercle d'Or', 1965, Inter-American Bar Assen. 1967, American Soc. of Int. Law 1968, Int. Platform Assen. (U.S.A.), Int. Biographical Assen. (U.K.). *Publications:* Poetry and literary and scientific articles in newspapers and periodicals. *Leisure interests:* theatre, classical music, playing and composing piano music. *Address:* Permanent Mission of Haiti to the United Nations, 801 Second Avenue, New York, N.Y. 10017, U.S.A.; 20 Rue de la Révolution, Port au Prince, Haiti. *Telephone:* (212) 686-2368 (New York).

VERRETT, Shirley; American soprano singer; b. 31 May 1931, New Orleans; d. of Elvira and Leon Verrett; m. Louis Lomonaco 1963; one d.; ed. Juilliard School of Music, New York; operatic début as mezzo-soprano taking title role of Carmen, Spoleto Festival 1962; same role for début at Bolshoi Opera, Moscow 1963, New York City Opera 1966, Florence 1968, Metropolitan Opera, New York 1968; sang at Covent Garden, London in roles of Ulrica (Un Ballo in Maschera) 1966, Amneris (Aida) 1967, Eboli (Don Carlos) 1968, Azucena (Il Trovatore) 1970; début at San Carlo, Naples as Elisabetta (Maria Stuarda) 1969, at La Scala, Milan as Delilah (Samson et Dalila) 1970, at Vienna Staatsoper as Eboli 1970, at Teatro Liceo, Barcelona as Eboli 1971, at Paris Opera ▬ Azucena 1972; other mezzo-soprano roles in Orfeo (Gluck), as Dido (Les Troyens), Judith (Bluebeard's Castle), Neocle (Siege of Corinth), Adalgisa (Norma, first performance at Metropolitan, New York 1976); made début as soprano in title role of La Favorita, Dallas Civic Opera 1971; début at San Francisco Opera in title role of L'Africaine 1972; first artist to sing roles of both Dido and Cassandra in one single full-length production of Les Troyens, Metropolitan 1973; other soprano roles: Lady Macbeth, La Scala 1975, and with La Scala at Kennedy Center, Washington, D.C. 1976, also with Opera Co. of Boston 1976; title role of Norma, Metropolitan Opera 1976 (in the same season took mezzo-soprano role of Adalgisa, being the first singer since Grisi to sing both roles); New Prioress in Dialogues of the Carmelites, Metropolitan 1977; now sings only soprano roles; Amellia, La Scala 1978, title role in Favorita, Metropolitan 1978; in Tosca at Metropolitan, New York 1978; frequent appearances with U.S. and European opera houses, with U.S. symphony orchestras; has appeared ▪▪ soloist on Milan's RAI; was subject of BBC TV feature Profiles in Music 1971. *Leisure interests:* cooking, musical biographies, collecting English and American antiques, collecting engravings of famous singers. *Address:* c/o Basil Horsfield, Artists International Management, 3-4 Albert Terrace, London, NW1 7SU, England.

VERZILI, Danilo, DR.POL.SC.; Italian banker; b. 5 Oct. 1909, Monteantico (Grosseto); s. of Angelo and Anito Burroni; m. Teresa Dodet 1950; one s. one d.; ed. Univs. of Siena and Florence; Sec.-Gen., Confed. Italiana dei Dirigenti di Azienda (CIDA) 1945-71; Pres. Banca Toscana, Florence 1966-69; Chair. Monte dei Paschi di Siena 1959-78; Pres. Fondazione Accademia Musicale Chigiana Siena 1966-, Società Autostrada Tirrenica 1968-; Dir. Istituto di Credito per le Imprese di Pubblica 1960-, United Bank for Africa 1967-, AICI 1971-, Società Finanziaria Int. 1971-; Cavaliere di Gran Croce al Merito della Repubblica Italiana and several other deco-

rations. *Address:* Viale Rinaldo Franci n. 12, Siena; Via Aurelia Antica n. 286, Rome, Italy. *Telephone:* 20.202 (Siena); 622.0033 (Rome).

VESELSKY, Dr. Ernst Eugen; Austrian politician; b. 2 Dec. 1932, Vienna; s. of Maria and Rudolf Veselsky; m. Franziska Raser 1956; one s. one d.; joined Econ. Section, Vienna Chamber of Labour 1956; Head, Econ. Section, Vorarlberg Chamber of Labour 1959; Sec. Vienna Chamber of Labour 1963; Exec. Sec., Econ. and Social Advisory Board (subsidiary body of Joint Council for Wages and Prices) 1965; mem. Board of Dirs., Austrian Nat. Bank 1969-70; mem. Nationalrat 1970-; Sec. of State to Fed. Chancellery (Nationalized Industries) 1970-77. *Leisure interests:* modern arts, books, music, sport. *Address:* Aslangasse 51, A-1190 Vienna, Austria. *Telephone:* 32-42-61.

VETTER, Heinz-Oskar; German trade unionist; b. 21 Oct. 1917, Bochum; s. of Oskar and Martha (née Berge) Vetter; m. Lieselotte Bleil 1947; one d.; ed. Akad. für Wirtschaft und Politik, Hamburg; with Harpener Bergbau AG, Dortmund 1946-49, shop steward with trade union; studied at Akad. für Wirtschaft und Politik, Hamburg; Sec. IG Bergbau und Energie 1952, mem. Exec. Cttee. 1960, Vice-Chair. 1964; Pres. Deutscher Gewerkschaftsbund (DGB) May 1969-; Vice-Pres. ICFTU; Pres. European Confed. of Free Trade Unions 1970-, European Trades Union Confed. 1974-; Bundesverdienstkreuz. *Leisure interests:* books, music, crafts. *Address:* Deutscher Gewerkschaftsbund, 4000 Düsseldorf, Hans-Böckler-Haus am Kennedydamm, Postfach 2601 (Office); 4330 Mülheim/Ruhr, von-Berhing-Strasse 2, Federal Republic of Germany (Home). *Telephone:* Düsseldorf 4301/200.

VIALAR, Paul; French writer; b. 18 Sept. 1898; ed. Lycée Janson-de-Sailly, Paris; fmr. Pres. Société des Gens de Lettres; Hon. Pres. Syndicat des Ecrivains Français; Hon. Pres. Fed. Nat. des Sociétés d'Auteurs: Pres. Assen. des Ecrivains Sportifs; fmr. Pres. Int. Writers' Guild; Hon. Pres. Syndicat Nat. des Auteurs et Compositeurs; mem. Council of Alliance Française; Conseiller Supérieur des Lettres, Commdr. de la Légion d'honneur, Ordre des Arts et Lettres; Croix de guerre; and numerous foreign awards. *Publications:* 15 plays and 90 novels including La rose de la mer (Prix Femina) 1939, La mort est un commencement (8 vols.) (Grand Prix de la Ville de Paris) 1948, Chronique française du XXème Siècle (10 vols. completed), Les Invités de la chasse 1969, Les Députés, Ceux du cirque, Safari vérité 1970, Mon seul amour, la Caille et le Butor 1972, La Croule 1974, Le triangle de fer 1976, Lettres pour les chasseurs 1977. *Address:* 34 Avenue Robert Schuman, Boulogne sur Seine, France.

VIBE, Kjeld, LL.D.; Norwegian diplomatist; b. 5 Oct 1927, Stavanger; s. of Christopher Andreas Vibe and Thordis Amundsen; m. Beate Meyer 1953; one s. three d.; ed. Univ. of Oslo; entered foreign service 1954; Sec., Del. to NATO and OEEC, Paris 1956-59; First Sec. Ministry of Foreign Affairs 1959-62; Temp. Head, Norwegian Mil. Mission, Berlin 1961; Personal Sec. to Minister of Foreign Affairs 1962-65; Counsellor, Norwegian Embassy, Wash. 1965-69; Deputy Dir.-Gen. for Political Affairs, Ministry of Foreign Affairs 1969-72, Dir.-Gen. 1972-77; Amb., Perm. Rep. to NATO 1977-. *Leisure interests:* skiing, history, music. *Address:* Norwegian Delegation to NATO, 1110 Brussels (Office); 20 avenue de Lothier, 1050 Brussels, Belgium (Home). *Telephone:* 215-18-35 (Office); 770-94-37 (Home).

VICHIT-VADAKAN, Vinyu; Thai economist and educationist; b. 21 July 1937; s. of Luang and Prapapan Vichit-Vadakan; m. Chantima Vichit-Vadakan 1967; two s. one d.; ed. Univ. of Fribourg; Economist, Nat. Econ. Devt. Board 1962-71; Acting Dean Faculty of Econs., Thammasat Univ. 1971-72, Dean 1972-73; Dir. UN Asian and Pacific Devt. Inst. Jan. 1974-. *Leisure interests:* electronics, photography. *Address:* United Nations Asian and Pacific Development Institute, P.O. Box 2-136, Sri Ayudhya Road, Bangkok, Thailand. *Telephone:* 2815400.

VICK, Sir (Francis) Arthur, Kt., O.B.E., D.SC., PH.D., LL.D., D.C.L., F.INST.P., F.I.E.E., M.R.I.A.; British physicist; b. 5 June 1911, Solihull, Warwicks.; s. of Wallace Devenport Vick; m. Elizabeth Dorothy Story 1943; one d.; ed. Waverley Grammar School and Birmingham Univ.; Asst. Lecturer in Physics, Univ. Coll., London 1936, Lecturer 1939-44; Asst. Dir. of Scientific Research, Ministry of Supply 1939-44; Lecturer in Physics, Manchester Univ. 1944-47, Senior Lecturer 1947-50; Prof. of Physics, Univ. Coll. of N. Staffordshire (now Univ. of Keele) 1950-59, Vice-Principal 1950-54; Dep. Dir. Atomic Energy Research Establishment, Harwell 1959-60, Dir. 1960-64, Dir. Research Group 1961-64, mem. for Research U.K. Atomic Energy Authority 1964-66; mem. Advisory Council on Research and Devt., Ministry of Power 1960-63; mem. Governing body, Nat. Inst. for Research in Nuclear Science 1964-65; mem. Nuclear Safety Advisory Cttee., Ministry of Power 1960-66, Univ. Grants Cttee. 1959-66; Pres. Assen. of Teachers in Colls. and Depts. of Educ. 1964-72, Hon. mem. 1972; Pres. and Vice-Chancellor, Queen's Univ., Belfast Oct. 1966-76; Pro-Chancellor and Chair. of Council, Univ. of Warwick 1977-; Hon. mem. Assen. for Science Educ. 1969; Chair. Acad. Advisory Council, Ministry of Defence 1969-76; Knight Commdr. Liberian Humane Order of African Redemption 1962. *Publications:* papers on solid-state physics, contributions to books on science and education. *Leisure interests:* music, gardening, the countryside. *Address:* Fieldhead Cottage, Fieldhead Lane, Myton Road, Warwick, CV34 6QF, England. *Telephone:* 0926-41822.

VICKERS, Jon, C.C.; Canadian tenor; 29 Oct. 1926, Prince Albert, Saskatchewan; s. of William Vickers and Merle Mossip; m. Henrietta Outerbridge 1953; three s. two d.; began career as concert and opera singer in Canada; joined Royal Opera House, Covent Garden (London) 1957; sang at Bayreuth Festival, Vienna State Opera, San Francisco, Chicago Lyric Opera, Metropolitan Opera, New York, La Scala, Milan, Paris Opera, Athens Festival, Salzburg Festival, etc.; Hon. LL.D. (Saskatchewan); Hon. C.L.D. (Bishop's Univ). *Major roles include:* Pollione in Norma, Herod in Salome, Alvaro in Forza, Laca in Jenufa, title role in Otello. *Address:* c/o Metropolitan Opera Co., New York City, N.Y., U.S.A.

VICTOR, Paul-Emile, LIC. ÈS SC., DIPL. D'ETHNOLOGIE; French explorer and civil engineer; b. 28 June 1907, Geneva, Switzerland; m. 1st Eliane Decrais 1946, 2nd Colette Faure de la Vaulx 1961; three s. one d.; ed. Lycée Rouget de Lisle (Lons-le-Saulnier), Ecole Centrale de Lyon, Faculty of Science and Letters and Inst. of Ethnology, Paris; Greenland Expedition 1934-35; crossed Greenland by dog sleigh 1936; wintered on east coast of Greenland 1936-37; trans-Alpine crossing by dog sleigh Nice-Chamonix 1938; expedition to Lapland 1939; Second Naval Attaché for France in Scandinavia 1939-40; U.S.A.F. (parachutist commanding Nome flight of Alaska search and rescue squadron) 1942-46; has organized and directed the Expéditions Polaires Françaises (missions Paul-Emile Victor—Arctic and Antarctic expeditions) since 1947; Pres. French Antarctic Cttee. Int. Geophysical Year; Pres. Groupe Paul-Emile Victor for the Protection of Man and his Environment 1973-; Head of Int. Glaciological Expedition to Greenland; Chair. Int. Logistics Group of Scientific Cttee. on Antarctic Research; Commdr., Légion d'honneur, Grand Croix de l'Etoile d'Anjouan, Officer of the Orders of Vasa and Dannebrog; Gold Medal of the Royal Geographical Soc. (London), Vega Gold Medal (Sweden), Médailles spéciales de l'Administration des Monnaies. *Publications:* Boréal 1938, Banquise 1939, Apoutsiak 1947, Aventure Esquimau 1948, La Grande Faim 1958, Pôle Sud 1960, La Voie Lactée 1961, L'Homme à la Conquête des Pôles 1962, Pôle Nord 1963, Poèmes Eskimo 1965, Tahiti 1966, Pôle Nord-Pôle Sud 1967, Terres Polaires, Terres Tragiques 1971, Eskimos, nomades de glaces 1972, La prodigieuse histoire des pôles 1974, Chiens de traîneaux compagnons du risque 1975, Mes aventures polaires 1975, La vie des Eskimos 1975, A l'assant du pôle nord 1976, Du Groenland à Tahiti 1977, Les Survivants du Groenland 1977. *Leisure interests:* skiing, swimming, deep sea diving, painting, engraving. *Address:* Expéditions Polaires Françaises, 47 Avenue du Maréchal Fayolle, 75116 Paris, France. *Telephone:* 504-17-71.

VIDAL, Gore; American writer; b. 3 Oct. 1925; ed. Phillips Acad., Exeter, N.H.; served in U.S. Army 1943-46; Edgar Allen Poe award for Television 1955; Drama Critic Reporter (magazine) 1959, Democratic-Liberal Candidate for U.S. Congress from New York 1960; Pres. Kennedy's Advisory Council on the Arts 1961-63; Co-Chair. People's Party 1970-72. *Publications:* Novels: Williwaw 1946, In a Yellow Wood 1947, The City and the Pillar 1948, The Season of Comfort 1949, A Search for the King 1950, Dark Green, Bright Red 1950, The Judgment of Paris 1952, Messiah 1954, Julian 1964, Washington, D.C. 1967, Myra Breckinridge 1968, Two Sisters 1970, Burr 1972, Myron 1974, 1876 1976, Kalki 1978; short stories: A Thirsty Evil 1956; plays: Visit to a Small Planet 1956, The Best Man 1960, Romulus 1962, Weekend 1968, An Evening with Richard Nixon 1972; film scripts and adaptations: Wedding Breakfast, I Accuse, Ben Hur, Suddenly Last Summer, The Best Man, Caligula; essays: Rocking the Boat 1963, Reflections upon a Sinking Ship 1969, Homage to Daniel Shays 1972, Matters of Fact and Fiction: Essays 1973-76, 1977; criticism in Partisan Review, The Nation, New York Review of Books, Esquire, etc. *Address:* Via di Torre Argentina 21, Rome, Italy.

VIDELA, Lt.-Gen. Jorge Rafael; Argentine army officer and politician; b. 2 Aug. 1925, Mercedes, Province of Buenos Aires; m. Alicia Hartridge; six c.; ed. Nat. Mil. Coll. and War School; commissioned in Infantry 1944; Lieut. in Vigilance Co., Ministry of War 1946; with Motorized Army Regt. 1947-48; Nat. Mil. Coll. 1948; Student, War School, with rank of Army Capt. 1951-54; Staff

Officer, Nat. Mil. Coll. 1954-56; Adviser to Office of Mil. Attaché, Washington, D.C. 1956-58; Staff Officer, Army Gen. Command 1962-65, 1966-68; Col. 1965; engaged on course in Strategy, Army Centre of Higher Studies 1965-66; Lieut.-Col., Chief of Cadet Corps 1968; Second in Command and Chief of Staff, Fifth Infantry Brigade 1968-70; Chief of Operations, Third Army Corps 1970-71; Brig., Head of Nat. Mil. Coll. 1971-73; Chief of Army Gen. Staff 1973-75, of Joint High Command 1975; C.-in-C. of Army 1975-78; led coup to depose Pres. María Perón March 1976; Pres. of Argentina March 1976-; fmr. mem. Inter-American Defence Board, Washington, D.C. *Address:* Oficina del Presidente, Casa Rosada, Buenos Aires, Argentina.

VIDOR, King Wallis; American film director; b. 8 Feb. 1895; ed. Galveston High School and Peacock Military Acad., San Antonio, Texas; fmr. journalist, later newsreel cameraman; asst. to D. W. Griffith and Thomas Ince; film dir. from 1918. *Publications:* A Tree is a Tree (autobiography) 1953, King Vidor on Film Making 1973. *Films directed include:* The Turn in the Road 1918, The Big Parade 1925, La Bohème 1925, The Crowd 1928, Show People 1928, Hallelujah 1929, Billy the Kid 1930, Street Scene 1931, The Champ 1931, Bird of Paradise 1932, Our Daily Bread 1934, The Wedding Night 1934, So Red the Rose 1935, The Texas Rangers 1936, Stella Dallas 1937, The Citadel 1938, Northwest Passage 1939, Comrade X 1940, An American Romance 1944, Duel in the Sun 1946, The Fountainhead 1949, Beyond the Forest 1949, Japanese War Bride 1952, Ruby Gentry 1952, The Man Without a Star 1955, War and Peace 1956, Solomon and Sheba 1959. *Address:* c/o General Management Association, P.O. Box 49993, Los Angeles, Calif. 90049, U.S.A.

VIEILLARD, Roger; French artist; b. 9 Feb. 1907, Le Mans, Sarthe; s. of Edmond Vieillard and Madelaine Magimel; m. Anita de Caro, painter, 1939; ed. Univ. of Paris; took part in exhbns. by Jeune Gravure Contemporaine, Société des Peintres Graveurs, Salon de Mai, Biennales of Venice, and São Paulo; works exhibited in Paris (Biblothèque Nat., Galerie de France, la Hune, Adrien Maeght, Galerie Coard), London (Hanover Gallery), Rotterdam (Boymans Museum), Berne (Musée de Berne), Galerie d'Art Moderne, Basel, Galerie le Garrec Sagot; has specialized in line engraving; prints in French and foreign museums and private collections; works at Manufacture Nat. de Sèvres, Musée Nat. de Monnaies et Médailles; Vice-Pres. Comité Nat. de la Gravure Française, Comité Nat. du Livre Illustré française, Société des Peintres Graveurs; Chevalier, Légion d'honneur, Officier des Arts et des Lettres. *Principal works:* Illustrations for: La Fable de Phaeton d'Ovide 1939, Hommage à Rimbaud 1944, Poèmes de Jean Tardieu 1945, Discours de la Méthode 1948, L'Ecclésiaste 1951, Le Banquet de Platon 1952, Poèmes d'André Frenaud 1956, Eléments 1956, Retour du Pays d'Ombre 1972, Voyage en Pays Circulaire 1973. *Leisure interest:* banking economics. *Address:* 7 rue de l'Estrapade, Paris 5e, France. *Telephone:* 354-40-78.

VIEIRA, Commdt. João Bernardo; Guinean politician; b. 1939, Bissau; joined Partido Africano da Indepêndencia da Guiné e Cabo Verde (PAIGC) 1960; Political and Mil. Chief of Catió 1961-64; Mil. Chief of the Southern Front and mem. Political Bureau 1964-65; Vice-Pres. Council of War 1965-67; Rep. of the Political Bureau for the Southern Front 1967-70; mem. Council of War, responsible for mil. operations 1970-71; mem. Exec. Cttee. and Council of War 1971-73; Sec. of PAIGC 1973-; Pres. of People's Nat. Ass. Sept. 1973-; State Commr. for the Armed Forces Sept. 1973-78; Chief State Commr. 1978-. *Address:* Conselho de Estado, Bissau, Guinea-Bissau.

VIEIRA DA SILVA, Marie-Hélene; French artist (naturalized); b. 13 June 1908, Lisbon, Portugal; m. Arpad Szenes; ed. Acad. de la Grande Chaumière under Bourdelle and Despiau; sculptor 1928-; influenced by Siennese school of painting; studied painting under Dufresne, Friesz, Fernand Léger and Bissière, also engraving under Hayter, L'Atelier 17; first one-man exhbn. 1932; in Portugal 1939, Brazil 1940-47, settled in Paris 1947; one-man exhbns. at Galerie Pierre 1948, 1951, 1955, Galerie Jeanne Bucher (nine between 1932 and 1971), Galerie Knoedler, New York 1961, 1963, 1966; retrospective exhbns. at Kestner-Gesellschaft 1958, Musée de Grenoble, Galleria Civica d'Arte Moderna, Turin 1961, Museum of Modern Art, Paris, Boymans-van Beuningen, Rotterdam, Kunsternes Hus, Oslo, Kunsthalle, Basel, Fondation Calouste Gulbenkian, Lisbon 1969-70; works in the major galleries of the world; 1st Int. Prize São Paulo Biennial 1961; Prix Nat. des Arts, Paris 1966; Commdr. des Arts et Lettres, Grand Croix Saint Jacques à l'epée 1977. *Address:* c/o Guy Weelen, 8 avenue Frochot, Paris 9e, France.

VIENNE, Robert (Baron de); French industrialist; b. 23 Jan. 1904; Pres., Dir.-Gen., Constructions mécaniques et électriques Capri-Codec S.A. 1963-; mem. Soc. of French Civil Engineers; Chevalier, Légion d'honneur. *Address:* 32 rue Ernest-Renan, Colombes (Seine), France.

VIERECK, Peter, B.S., M.A., PH.D.; American poet, historian and dramatist; b. 5 Aug. 1916, New York; s. of George S. and Margaret (Hein) Viereck; m. 1st Anya de Markov 1945 (divorced 1970); one s. one d.; m. 2nd Betty Martin Falkenberg 1972; ed. Harvard Univ. and Christ Church, Oxford; Teaching Asst., Harvard Univ. 1941-42, Instructor in German Literature and tutor 1946-47; History Instructor, U.S. Army, Univ. of Florence, Italy 1945; Asst. Prof. History, Smith Coll. 1947-48; Assoc. Prof. Mount Holyoke Coll. 1948-55, Prof. of European and Russian History 1955-; U.S. State Dept. mission of cultural exchange to U.S.S.R. 1961; awarded Tietjens Prize for Poetry 1948, Pulitzer Prize for Poetry 1949; Guggenheim Fellow, Rome 1949-50; Visiting Lecturer Univ. of Paris, American Univ., Beirut, and American Univ. Cairo 1966; L.H.D. (Olivet Coll.) 1959. *Publications:* Metapolitics—from the Romantics to Hitler 1941, Terror and Decorum (poems) 1948, Who Killed the Universe? 1948, Conservation Revisited—The Revolt Against Revolt—1815-1849 1949, Strike Through the Mask: New Lyrical Poems 1950, The First Morning: New Poems 1952, Shame and Glory of the Intellectuals 1953, Dream and Responsibility: The Tension Between Poetry and Society 1953, The Unadjusted Man: a New Hero for Americans 1956, Conservatism: From John Adams to Churchill 1956, The Persimmon Tree (poems) 1956, The Tree Witch: A Poem and Play 1961, Metapolitics: The Roots of the Nazi Mind 1961, Conservatism Revisited and the New Conservatism: What Went Wrong? 1962, New and Selected Poems 1967; numerous articles and poems. *Address:* Mount Holyoke College, South Hadley, Mass. 01075 (Office); 12 Silver Street, South Hadley, Mass., 01075, U.S.A. (Home). *Telephone:* (413) 534-5504 (Home).

VIETORIS, Leopold, PH.D.; Austrian professor of mathematics; b. 4 June 1891; s. of Dipl. Ing. Hugo Vietoris and Anna (née Diller) Vietoris; m. 1st Klara von Riccabona (died 1935), 2nd Marie von Riccabona 1936; six d.; ed. Technische Hochschule, and Univ. of Vienna; Lecturer, Staatserziehungsanstalt, Vienna 1919-20; Asst. in Maths., Technische Hochschule, Graz 1920-22; Asst. in Maths., Univ. of Vienna 1922-27; Rockefeller Fellowship, Amsterdam 1925-26; Prof. of Maths., Univ. of Innsbruck 1927-28, Technische Hochschule, Vienna 1928-30, Univ. of Innsbruck 1930-61, Emer. Prof. 1961-; mem. Acad. of Science, Vienna 1960; Hon. mem. Austrian Math. Soc. 1965; Österreichisches Ehrenzeichen für Wissenschaft und Kunst 1973. *Publications:* Point Set Theory, Topology, Numerical Analysis, Differential Equations, Foundations of Probability Theory, Glaciology. *Leisure interests:* mountaineering, skiing. *Address:* Kaiserjägerstr. 40, A-6020 Innsbruck, Austria. *Telephone:* 0043-05222/245354.

VIGLIONE, Gen. Andrea; Italian army officer; b. 24 Aug. 1914, Turin; m. Romana Rocco 1946; three d.; ed. Infantry and Cavalry Mil. Acad., Army War Coll.; Battalion Commdr. 1952-53; Commdr. 76th Infantry Reg. 1959-60; Commdt. Advanced Staff Course, War Coll. 1964-65; Head First Dept. Army Gen. Staff 1965-66; Commdr. Infantry Div. "Folgore" 1966-67, Xth Mil. Command of Southern Region 1971-72, VIIIth Mil. Command of Central Region 1972-73; Head Army Gen. Staff 1973-75; Head of Defence Gen. Staff 1975-78; Knight of Grand Cross of Order of Merit of Repub. of Italy, Knight of Magistral Grace of the Sovereign Military Order of Malta and other military awards. *Address:* c/o State Maggiore Difesa, Via XX Settembre 11, Rome, Italy.

VILA, George Raymond, A.B., S.M., A.M.P.; American business executive; b. 2 March 1909, Philadelphia, Pa.; s. of Joseph S. Vila and Rachel Pepper Vila; m. 1st Katherine Elizabeth Miller; two s.; m. 2nd Jeannine Trueffert; ed. Wesleyan Univ., Massachusetts Inst. of Technology, Harvard Graduate School of Business Administration; joined Naugatuck Chemical Div., Uniroyal Inc. 1936, various sales and research posts 1936-57, Vice-Pres. and Gen. Man. 1957, Group Exec. Vice-Pres. Uniroyal Inc. 1957-60, Pres. 1960-, mem. Exec. Cttee. 1960-, Chief Exec. Officer 1961-75, Chair. 1964-75; Dir. Chemical Bank, Church and Dwight Co. Inc., Bendix Inc.; Hon. D.Eng. (Clarkson Coll. of Tech.). *Publications:* Critical Analysis of T-50 Test 1939, Action of Organic Acceleration in Buna S 1942, Plastication and Processing of GR-S 1943, Approach of Statistical Methods to Manufacture of Synthetic Rubber 1944, A New Era in Synthetics in Rubber to Match Plastics? 1955, Tires: An Expanding Market for Chemicals 1956, 1960 Outlook for In-Process Materials 1959, Economics and Trends in Rubber and the Newer Rubber-Like Materials 1959. *Leisure interests:* fox hunting and riding. *Address:* c/o Uniroyal, 1230 Avenue of the Americas, New York 06090; Home: Keeler Road, Sharon, Conn. 06069, U.S.A. *Telephone:* 212-489-3118.

VILCEK (Wilczek), Miroslav, L. ès L.; Yugoslav international official; b. 25 Sept. 1923, Zagreb; s. of Ivan Wilczek and Zora Bijelic; m. Andjelija Bogdanovic 1958; ed. Lausanne Univ. (economics), Bern Univ. (law and admin.) and Belgrade Univ. (English language and literature); interned in Italy and Switzerland during Second World War 1942-45; Attaché, Yugoslav Legation, Bern, and mem. several dels. to int. confs. 1945-49; Secr. of State for Foreign Affairs, Belgrade (Desk for Social and Humanitarian Int. Orgs., and Consular Dept.) 1950-55; Head of Dept. for Foreign Relations and Information, Belgrade City Council 1955-59; Sec. of Television Programme Cttee. of Assen. of Yugoslav Broadcasting Stations, Belgrade 1959-63; Dir. of Television Programme (Eurovision) Dept., and Sec. TV Programme, Cttee. of European Broadcasting Union, Geneva, March 1963-. *Publications:* Articles on human rights and int. public law in professional periodicals in Belgrade 1950-55. *Leisure interest;* philately. *Address:* European Broadcasting Union, Ancienne Route 17, Case Postale 193, CH-1211, Geneva 20, Switzerland. *Telephone:* 98-77-66.

VILCU, Vasile; Romanian politician; b. 26 Sept. 1910, Ciamurlia de Jos, Constanța County; m. Inda Vîlcu; one s. one d.; ed Party High School, "Stefan Gheorghiu" Acad., Bucharest; Mem. Romanian Communist Party (RCP) 1929-; imprisoned for political activities 1941-44; Sec. Dolj District Cttee. of RCP 1944-46, Tulcea District Cttee. of RCP 1946-47; Vice-Chair. Party Control Comm. 1947-52; First Sec. Dobrogea Region Cttee. of RCP 1956-65; Alt. mem. Cen. Cttee. of RCP 1958-60, mem. 1960-76; Alt. mem. Exec. Political Cttee. of Cen. Cttee. of RCP 1965, mem. 1966-76; mem. Grand Nat. Assembly 1948-52, 1957-; Chair. Council of Nat. Union of Agricultural Production Co-operatives 1966-69; mem. Exec. Bureau of Nat. Cttee. of Socialist Unity Front 1968-76; Vice-Pres. State Council 1969-75, mem. 1977-; First Sec. Constanța County Cttee. of RCP 1971-76, Chair. Exec. Cttee. 1971-76; Chair. Cen. Auditing Comm. of RCP 1976-; Hero of Socialist Labour 1971. *Address:* Central Committee of the Romanian Communist Party, Bucharest, Romania.

VILELA, H.E. Cardinal Avelar Brandão; Brazilian ecclesiastic; b. 13 June 1912, Viçosa; ordained priest 1935; consecrated Bishop of Petrolina 1946; Archbishop of Teresina 1955, of São Salvador de Bahia March 1971-; cr. Cardinal by Pope Paul VI 1973. *Address:* Palácio Arquiepiscopal do Campo Grande, Praça da Sé 1, Salvador, Bahia, Brazil. *Telephone:* 3-2979.

VILHJALMSSON, Thor; Icelandic lawyer; b. 9 June 1930, Reykjavík; s. of Vilhjalmur Th. Gislason and Inga Arnadottir Gislason; m. Ragnhildur Helgadottir Vilhjalmsson 1950; one s. three d.; ed. Reykjavík Grammar School, St. Andrews Univ., Scotland, Univ. of Iceland, New York Univ. and Univ. of Copenhagen; Asst. Lecturer, Univ. of Iceland 1959-62, part-time Lecturer 1962-67, Prof. 1967-76, and Dean, Faculty of Law 1968-70, Dir. Inst. of Law 1974-76; Dep. Judge Reykjavík Civil Court 1960-62, Judge 1962-67; Judge European Court of Human Rights 1971-; Justice of the Supreme Court of Iceland 1976-; mem. Icelandic Del. to UN Gen. Assembly 1963, UN Sea-Bed Cttee. 1972, 1973 to Law of the Sea Conf. 1974, 1975, and other int. confs.; Pres. Assen. of Icelandic Lawyers 1971-74; Ed. Icelandic Law Review 1973. *Publications:* Civil Procedure I-IV and studies on human rights and legal history. *Address:* The Supreme Court, Reykjavík, Iceland. *Telephone:* 13936.

VILJOEN, Hon. Marais; South African politician; b. 2 Dec. 1915, Robertson; m. Dorothea Maria Brink 1940; one d.; ed. Jan van Riebeeck High School, Cape Town, and Univ. of Cape Town; Man., Die Transvaler Boekhandel 1940-43; Co-founder Nat. Youth League; Organizer, Nat. Party 1943-51, Information Officer 1951-53; mem. Transvaal Prov. Council for Pretoria 1949-53; mem. Parl. for Alberton, Transvaal 1953-75; mem. Senate 1976-79; Deputy Minister of Labour and of Mines 1958-61, of Labour and Immigration 1961-62, of the Interior, Educ., Arts, Science, Labour and Immigration 1962-66; Minister of Labour and of Coloured Affairs 1966-70, also Minister of Rehoboth Affairs 1969-70; Minister of Labour and of the Interior 1970, of Posts and Telecommunications 1970-76; Chair Information Cttee., Fed. Council until 1976; Deputy Chair. Nat. Party until 1976; Pres. of Senate 1976-77; Pres. of South Africa June 1979-. *Address:* The Presidency, Private Bag X80, Pretoria, Republic of South Africa.

VILLA, José García, A.B.; Philippine poet and critic; b. 5 Aug. 1914, Manila; s. of Dr. Simeon Villa and Maria García; two s.; ed. Univs. of the Philippines, of New Mexico and Columbia Univ.; Assoc. Ed. New Directions Books 1949; Cultural Attaché Philippine Mission to UN 1953-63; Dir. N.Y. City Coll. Poetry Workshop 1952-63, Prof. of Poetry, New School for Social Research 1964-73; Philippines Presidential Adviser on Cultural Affairs 1968-; Guggenheim Fellowship 1943, Bollingen Fellowship 1951, Rockefeller Grant 1964; American Acad. of Arts and Letters Award 1942, Shelley Memorial Award 1959, Pro Patria Award 1961, Philippines Cultural Heritage Award 1962, Nat. Artist in Literature 1973; Hon. D.Litt. (Far Eastern Univ.) 1959, Hon. L.H.D. (Philippines) 1973. *Publications:* Footnote to Youth (stories) 1933, Many Voices 1939, Poems by Doveglion 1941, Have Come, Am Here 1942, Volume Two 1949, Selected Poems and New 1958, Poems Fifty-five 1962, Poems in Praise of Love 1962, Selected Stories 1962, The Portable Villa 1963, The Essential Villa 1965; Editor: A Celebration for Edith Sitwell 1948, Doveglion Book of Philippine Poetry 1975, Appassionata 1979. *Leisure interests:* dogs, plants, cooking. *Address:* 780 Greenwich Street, New York, N.Y. 10014, U.S.A.

VILLAIN, Claude Edouard Louis Etienne, D.E.S.; French international civil servant; b. 4 Jan. 1935, Paris; s. of Etienne and Marie Louise (Caudron) Villain; m. Bernadette Olivier 1962; two s.; ed. Lycée Voltaire, Lycée Louis-le-Grand, Univ. of Paris; Trainee in French Overseas Admin. 1956-59, Officer in Dept. of Algerian Affairs 1959-61; Officer for Econ. Studies in Agricultural Devt. Bureau 1962-64; Officer in Ministry of Econ. and Finance 1964, Head of Dept. 1969, Deputy Dir. of Ministry 1973; Tech. Adviser in Office of Valéry Giscard d'Estaing (then Minister of Econ. and Finance) 1973-74; Dir.-Gen. of Competition and Prices in Ministry of Econ. and Finance 1974-78; Dir. Soc. Nat. des Chemins de Fer (SNCF) 1974-78; Dir. Soc. Nat. Elf Aquitaine 1974-79; Dir.-Gen. of Agriculture, Comm. of EEC 1979-; Chevalier de la Légion d'honneur; Chevalier de l'Ordre nat. du Mérite; Croix de Valeur Mil.; Chevalier du Mérite Agricole. *Address:* Commission of the European Communities, 200 rue de la Loi, 1040 Brussels; Home: 152A avenue des Aubépines, 1180 Brussels, Belgium. *Telephone:* 358-3269 (Home).

VILLALBA, Jovito; Venezuelan politician; b. 1908; ed. Liceo Caracas, Universidad Central de Venezuela and Universidad Libre, Colombia; fmr. Prof. of Constitutional Rights and Political Theory, Universidad Central de Venezuela; Sec., Federation of Venezuelan Students 1928; imprisoned 1928-34; Sec.-Gen. Nat. Democratic Party 1936; exile in Colombia 1936-38; Founder, Unión Republicana Democrática 1946, now leader; exiled 1952-57; Leader, Junta Patriótica 1958; Presidential Candidate 1963, 1973. *Address:* Unión Republicana Democrática, Caracas, Venezuela.

VILLAR MIR, Juan Miguel; Spanish engineer and politician; b. 30 Sept. 1931; m. Silvia de Fuentes Bescos; three c.; ed. Madrid and Washington, D.C.; Asst. Dir.-Gen. of Ports; Dir.-Gen. of Labour; Deputy Prime Minister for Econ. Affairs and Finance 1975-76. *Leisure interests:* sport and reading. *Address:* c/o Oficiné del Primer Ministro, Madrid, Spain.

VILLAS BÔAS, Claudio; Brazilian anthropologist and explorer; b. 1916, Botucatu, São Paulo; s. of Agnelo and Arlinda Villas Bôas; brother of Orlando Villas Bôas (*q.v.*); has lived in the Brazilian jungle around the River Xingu and worked among the Indians since 1945; founded aid posts for Indians and opened airstrips in the jungle; worked in the Indian Protection Service; Fundação Nacional do Indio 1967-; Gold Medal, Royal Geographical Soc. *Leisure interests:* reading, philosophy, ethnology, classical music. *Address:* Parque Nacional do Xingu, Praça Franklin Roosevelt 278, Apto 123, São Paulo, SP, Brazil.

VILLAS BÔAS, Orlando; Brazilian anthropologist and explorer; b. 1914, Botucatu, São Paulo; s. of Agnelo and Arlinda Villas Bôas; m. Marina Lopes de Lima Villas Bôas; one s.; brother of Claudio Villas Bôas (*q.v.*); has lived in the Brazilian jungle around the River Xingu and worked among the Indians with his brother since 1945; co-founder (with his brother) of the Parque Nacional do Xingu (Brazil's most important reservation for Indians), Dir. 1961-; Gold Medal, Royal Geographical Soc. *Leisure interests:* theatre, reading, travel. *Address:* Parque Nacional do Xingu, Rua Capital Federal 309, 01259 São Paulo, SP, Brazil.

VILLASEÑOR, Eduardo, B.A.; Mexican economist; b. 1896, Angamacutiro, Michoacán; s. of J. Jesús Villaseñor and Rosario Angeles; m. 1st Margarita Ureta 1933 (marriage dissolved), 2nd Laura Wells 1949; one s. three d.; ed. Univ. Michoacana, Univ. de México, London School of Economics; Prof., Political Economy, Nat. School of Agric. 1921-25; Head, Dept. of Co-operative Socs., Banco Nacional de Crédito Agrícola 1926-28; Sec. Mexican-British Claims Comm. 1928-29; Commercial Attaché, Legation, London 1929-31; Head Consular Div. Dept. of Foreign Affairs 1931-32; Head Div. of Publs., Dept. of Finance and Public Credit 1932; mem. Comisión Nacional Banceria 1932-33; Prof. of Int. Trade, Faculty of Econs. Univ. Mexico; Sec. Board Banco Hipotecario Nacional de Obras Urbanas y Publicas; Sec. Nat. Council Economy 1932-34; Consul-Gen. New York 1935; Pres. Banco Nacional Agrícola 1936-

37; Under-Sec. for Finance and Public Credit 1938-40; Dir.-Gen. Banco de México, S.A. 1940-46; Pres. Banco del Atlántico 1949-65; Chair. of Board Banco de la Ciudad de México, S.A. 1966-71; Commdr., Légion d'honneur. *Publications:* Extasis, novela de aventuras 1928, Nuestra Industria Textil de Algodón 1934, Inter-American Trade and Financial Problems 1941, The Inter-American Bank: Prospects and Dangers 1941, Some Aspects of Mexico's War Economy 1943, Ensayos Interamericanos: Reflexiones de un economista 1944, De la Curiosidad y otros papeles 1945, Episodio 1952, The English are they Human? 1953, La Farce et la Morí au Mexique 1957, Stabilité ou Développement de l'Economie Mexicaine 1957, Los Recuerdos y los Dias 1960, Memorias-Testimonio 1974. *Leisure interests:* painting, antique collecting, golf. *Address:* Reyna 73, México 20, D.F., Mexico. *Telephone:* 5-48-20-13.

VILLELLA, Edward, B.S.; American ballet dancer; b. 1 Jan. 1936, New York; m. Janet Greschler 1962 (divorced 1970); one s.; ed. N.Y. State Maritime Coll.; joined N.Y. City Ballet 1957, becoming soloist within a year, now Premier Dancer; originated leading roles in George Balanchine's Bugaku, Tarantella, Stars and Stripes, Harlequinade, Jewels, Glinkaiana, A Midsummer Night's Dream; first danced his famous role of Prodigal Son 1960; has also danced leading roles in Allegro Brillante, Jeux, Pas de Deux, Raymonda Variations, Scotch Symphony, Swan Lake; choreographed Narkissos; has appeared at Bolshoi Theatre, with Royal Danish Ballet and in London, and made numerous guest appearances; choreographed and starred in revivals of Brigadoon, Carousel; Dance magazine award 1965; Chair. N.Y. City Comm. of Cultural Affairs 1978-; mem. Nat. Council on the Arts; Golden Plate Award (American Acad. of Achievement) 1971, Emmy Award 1975. *Address:* New York City Ballet, New York State Theatre, Lincoln Center Plaza, New York, N.Y. 10023, U.S.A. *Telephone:* (212) 877-4700.

VILLEMÉJANE, Bernard de; French business executive; b. 10 March 1930, Marseilles; s. of Pierre and Marie-Thérèse (née Getten) de Villeméjane; m. Françoise Boucheronde 1965; two s.; ed. Ecole Polytechnique and Ecole des Mines, Paris; with Direction des Mines et de la Géologie, French West Africa 1955-60; Ministry of Industry 1960-61; Eng. Adviser, Banque Rothschild 1961-62; Deputy Man. Dir. Société Penarroya 1963, Man Dir. 1967, Chair. of Board and Man. Dir. 1971-; Man Dir. Société Le Nickel 1971-74, Imetal 1974-; Chair. of Board and Man. Dir. S.M. le Nickel S.L.N. 1974; Dir. Copperweld Corpn., U.S.A. 1976-, Lead Industries Group, U.K. 1977-; Dir. of various other European and American companies. *Address:* Tour Maine Montparnasse, 33 Avenue du Maine, 75751 Paris, Cedex 15 (Office); 102 rue d'Assas, 75006 Paris, France (Home). *Telephone:* 538-48-48.

VILLIERS, Alan John, D.S.C., F.R.G.S.; Australian author and sailor; b. 23 Sept. 1903, Melbourne; s. of Leon Joseph Villiers and Anastasia Edith (née Hayes) Villiers; m. Nancie Wills 1940; two s. one d.; ed. State schools in Melbourne; went to sea in sailing ships 1920; mem. pioneer pelagic whaling voyage into Ross Sea, Antarctica 1923-24; part-owner Finnish 4-mast barque 1930-34; master-owner full-rigged ship Joseph Conrad 1934-36; sailed in Arab deepsea dhows 1938-39; Royal Navy 1940-46; Master, Outward-Bound Sea Schools' training ship 1949-50; voyage in Portuguese 4-mast schooner Grand Banks and Greenland 1950; Commanded barque Mayflower II 1957; Trustee Nat. Maritime Museum for twenty years; Gov. Cutty Sark Soc.; Vice-Pres. Soc. for Nautical Research, mem. Ships Cttee. Maritime Trust, Tech. Cttee., H.M.S. Victory; Commdr. Portuguese Order of Santiago; Camõens Prize for Literature 1954. *Publications:* Falmouth for Orders 1929, By Way of Cape Horn 1930, Cruise of the Conrad 1937, Sons of Sinbad 1940 and new edn. (U.S.A.) 1969, The Way of a Ship 1950, The Quest of the Schooner Argus 1957, The Western Ocean 1957, Give me a Ship to Sail 1958, Oceans of the World 1963, Captain Cook, the Seaman's Seaman 1967, The War with C. Horn 1971, The Bounty Ships of France 1972, Captain Conrad 1977. *Leisure interests:* sailing-ships, deep sea, and history thereof. *Address:* 1A Lucerne Road, Oxford, OX2 7QB, England. *Telephone:* Oxford 55632.

VILLIERS, Sir Charles Hyde, Kt., M.C.; British business executive; b. 14 Aug. 1912, London; s. of late Algernon Hyde Villiers and of Beatrix Elinor (née Paul) Villiers (now Dowager Lady Aldenham); m. 1st Pamela Constance Flower (died 1943), one s.; m. 2nd Marie José de la Barre d'Erquelinnes 1946, two d.; ed. Eton, New Coll., Oxford; joined Glyn Mills and Co. (bankers) 1931; Grenadier Guards (Supplementary Reserve of Officers) 1936, served at Dunkirk 1940 (wounded 1942), Special Operations Exec., London, Italy, Yugoslavia 1943-45, Lt.-Col. and Command 6 Special Force Staff Section 1945; Partner in Helbert Wagg 1948; Man. Dir. Schroder Wagg 1960-68; Man. Dir. Industrial Reorg. Corpn. 1968-71; Chair. Guinness Mahon and Co. Ltd. 1971-76; Exec. Deputy Chair. Guinness Peat Group 1973-76; Chair. British Steel Corpn. 1976-; Dir. Bass Charrington, Courtaulds, Sun Life Assurance, Banque Belge, Financor SA; fmr. Chair. Ashdown Trans-Europe and Trans-Australian Investment Trusts; Chair. Fed. Trust Group on European Monetary Integration 1972, Northern Ireland Finance Corpn. 1972-73, Theatre Royal, Windsor; Co-Chair. Europalia Festival 1973; Trustee, Royal Opera House Trust 1974-; mem. Inst. Int. d'Etudes Bancaires 1959-76 (Pres. 1964), Minister of Labour's Resettlement Cttee. for London and S.E. 1958 (Chair. 1961-68); Review Body for N. Ireland Econ. Devt. 1971, NEDC 1976-, Chelsea Borough Council 1950-53; Lubbock Memorial Lecturer, Oxford 1971; Order of the People (Yugoslavia) 1970; Grand Officer of Order of Léopold II 1974; Gold Medal of IRI (Italy) 1975. *Publications:* Tomorrow's Management (Lubbock Memorial Lecture) 1971, We All Live Here 1976, People Not Paper 1976. *Leisure interests:* gardening, ciné. *Address:* 33 Grosvenor Place, London, S.W.1, England (Office). *Telephone:* 01-235 1212.

VILLIERS, Georges; French commercial administrator; b. 15 June 1899; ed. Lycée de Lyon, Ecole nationale supérieure des Mines, Saint-Etienne; Mayor of Lyon 1941-42, deported to Germany 1943-45; Pres. Nat. Council of French Employers 1946-66; Pres. Council of Industrial Feds. in Europe 1964-70; Pres. French Cttee. of the Int. Chamber of Commerce; Gov. European Cultural Foundation; Pres. of Comm. for Int. Econ. Relations of the C.N.P.F.; Treas. and then Pres. Advisory Econ. and Industrial Cttee. to OECD 1966-68; Grand Officier Légion d'honneur, Croix de guerre and other European int. awards. *Address:* 62 Avenue Henri Martin, Paris, France. *Telephone:* 504-05-08.

VIMOND, Paul Marcel; French architect; b. 20 June 1922, La Meurdraquière; s. of Ernest Vimond and Marie Lehuby; m. Jacqueline Lefèvre 1945; two s. two d.; ed. Lycée de Coutances, Ecole préparatoire des beaux-arts de Rennes and Ecole nationale supérieure des beaux-arts, Paris; Mem. Jury of Nat. School of Fine Arts; mem. Diocesan Comm. on Sacred Art, Paris; Chevalier des Arts et des Lettres and of Pontifical Order of Merit; Premier Grand Prix de Rome 1949. *Major architectural works include:* Architect in charge of Int. Exhbn. of Sacred Art, Rome 1953; responsible for films and architectural reconstructions of tomb of Saint Peter, Rome; Buildings in Paris for: Assemblée de l'Union française, Conseil économique et social, Union de l'Europe occidentale, Org. de co-opération et de développement économiques; planner and architect for Palais d'Iéna, Paris; town planner for Cherbourg; Atomic Power Station, The Hague; two theatres, three churches in Paris, hotels, restaurants, hospitals, and numerous lycées in France; technical insts. at Besançon, Montpellier, Paris, Orsay, Nice, Toulon, Troyes; Faculty of medicine, Nice; many telephone exchanges and ten large postal sorting offices in Paris region and provinces; sorting offices in Riyadh, Jeddah and Dammam and project for television centre in Saudi Arabia, project for town in Zaire. *Leisure interests:* painting, golf. *Address:* 23 rue de Lubeck, 75116 Paris (Office); 91 avenue Niel, Paris 17e, France (Home). *Telephone:* 720-59-53 (Office); 924-87-84 (Home).

VIMONT, Jacques Pierre, L. en D.; French diplomatist; b. 17 July 1911, Paris; s. of Marcel and Alice (née Durantet) Vimont; m. Anne Brun 1942; one s. two d.; ed. Lycée de Nice, Faculté de Droit, Paris and Ecole Libre des Sciences Politiques; Attaché Belgrade 1938; Dir. Adjoint du Cabinet Résidence Gén., Tunis 1939-42; Ministry of Foreign Affairs 1944-46; Counsellor to Sherifian Govt. 1946-49; Counsellor, Berne 1949-50; Sec.-Gen. Tunisian Govt. 1950-51; Counsellor, Rio de Janeiro 1951-53; Dir. Adjoint de Cabinet, Ministry of Foreign Affairs 1953-54; Minister-Counsellor, Washington 1954-57; Dir. of Personnel, Ministry of Foreign Affairs 1958-65; Amb. to Mexico 1965-69, to Czechoslovakia 1970-73, to U.S.S.R. 1973-76; mem. Admin. Council Air France 1976-; Commdr. Ordre du Mérite, Commdr. Légion d'honneur. *Address:* c/o Ministère des Affaires étrangères, Paris, France.

VINCENT, Daniel, D. es SC., M.D., PHARM.D.; French doctor and pharmacologist; b. 12 Oct. 1907, Dortan, Ain; s. of Albert Vincent and Marie-Thérèse Blanc; m. Marie-Louise Doucet-Bon 1933; one s. three d.; ed. Univ. of Lyon; Head medical chemist, Faculty of Medicine and Pharmacy, Univ. of Lyon, and Head of Medical Clinic 1938-39; Prof. Faculty of Medicine and Pharmacy, Toulouse 1943 and Lyon 1965; Biologist of Hospitals in Lyon 1969; Regional Insp. of Pharmacy 1942-45 and Principal Insp. 1955; mem. Regional Council Ordre des Pharmaciens, Toulouse 1950-65, New York Acad. of Sciences 1961; Lauréat de l'Inst. de France, Prix Pourat 1939; Lauréat de l'Acad. de Médecine, Prix Marc Sée 1945, Prix Jansen 1961. *Address:* Les Crètes, 54 avenue Valioud, 69110 Ste. Foy-Les-Lyon, France. *Telephone:* (78) 36-00-56.

VINCENT, Eric R. P., C.B.E., LITT.D., D.PHIL., M.A.; British university professor (emeritus); b. 10 Dec. 1894, Hampstead, London; s. of Charles Vincent and Hannah Phillips; m. Ivy Barrow Simonds 1923; one d.; ed. Berkhamsted School and Christ Church, Oxford; interned in Germany as civil prisoner of war 1914-18; Lecturer in Italian, King's Coll., Univ. of London 1922; Univ. Lecturer in Italian Language and Literature Oxford 1927-34; Prof. of Italian, Cambridge 1935-62, Emer. 1962-; Life Fellow of Corpus Christi Coll., Cambridge, Pres. 1954-59; served Foreign Office 1939-45; Commendatore Ordine Al Merito della Repubblica Italiana; fmr. Pres. of Assen. Int. di Studi Italiani; mem. Italian Arcadian Acad.; British Acad. Serena Medal 1973. *Publications:* Ardengo Soffici, Six Essays on Modern Art, Preface and Notes, 1922, Gabriele Rossetti in England 1936, The Commemoration of the Dead (Foscolo's Sepolcri) 1936, Byron, Hobhouse and Foscolo 1949, Ugo Foscolo, An Italian in Regency England 1953; and other works. *Leisure interests:* book and art collecting. *Address:* Sandhills Cottage, Salcombe, Devon, England. *Telephone:* Salcombe 3154.

VINCENT, Olatunde Olabode; Nigerian banker; b. 16 May 1925, Lagos; s. of Josiah O. and Comfort A. Vincent; m. Edith Adenike Gooding; three s. one d.; ed. C.M.S. Grammar School, Lagos, Chartered Inst. of Secs., London, Univ. of Manchester, and Admin. Staff Coll., Henley, England; Nigerian Army 1942-46; Financial Sec.'s Office 1947-65; Fed. Ministry of Finance 1956-61; Asst. Gen. Man. Central Bank of Nigeria 1961-62, Deputy Gen. Man. 1962, Gen. Man. 1963-66, Adviser 1973-75, Deputy Gov. 1975-77, Gov. 1977-; Vice-Pres. African Devt. Bank, Abidjan, Ivory Coast 1964-73; Part-time Lecturer in Econs., Extra-Mural Dept., Univ. Coll. of Ibadan 1957-60; mem. Lagos Exec. Devt. Board 1960-61; mem. Cttee. which set up Nigerian Industrial Devt. Bank; Dir. Nigerian Industrial Devt. Bank 1964-66, Nigerian Security Printing and Minting Co. Ltd., Lagos, 1975-77; Chair. Capital Issues Comm., Lagos, 1975-77, Southern Africa Relief Fund 1977-, Cttee. on Motor Vehicle Advances and Basic Allowance 1978-; mem. Cttee. of Nine which set up African Devt. Bank; mem. Soc. for Int. Devt.; Econ. and Financial Adviser, African Church Inc., Lagos; Auditor African Church Cathedral (Bethel), Lagos. *Leisure interests:* reading, walking, listening to African and light classical music, gardening. *Address:* Central Bank of Nigeria, P.O. Box 12194, Lagos; 6 Queen's Drive, Ikoyi, Lagos, Nigeria. *Telephone:* 632893, 653700 (Office); 682052 (Home).

VINCI, Piero; Italian diplomatist; b. 1912; ed. University of Rome; Diplomatic Service 1938-; Switzerland, Bulgaria 1938-47; Head of Press Section, Ministry of Foreign Affairs, Rome 1947-49; First Sec. Beirut 1949-53; Consul-Gen. London 1953-55; Head of Political Office for Relations with Africa and the Middle East, Ministry of Foreign Affairs, Rome 1955-59, Head of UN Division 1959-60; Chief of Cabinet to Deputy Prime Minister and Minister of Foreign Affairs 1960-63; Perm. Rep. to UN 1964-73; Presidential Cttee. (Political) of 23rd Gen. Assembly of the UN 1968; mem. UN Sec.-Gen.'s Advisory Board on Disarmament; Italian Rep. to UN Security Council 1971, Pres. Aug. 1971, Aug. 1975, July 1976; mem. of Board of UNITAR 1973; Amb. to U.S.S.R. 1973-75; Perm. Rep. to UN 1975-. *Address:* Permanent Mission of Italy to UN, 747 Third Avenue, 35th Floor, New York, N.Y. 10017, U.S.A.

VINDE, Pierre L. V., JUR.CAND., PHIL.CAND.; Swedish civil servant; b. 15 Aug. 1931, Paris, France; s. of Victor Vinde and Rita Wilson; m. Ann-Marie Persson 1957; one s. one d.; ed. Schools in France, Sweden and U.K., Univs. of Uppsala and Stockholm; in Prime Minister's Office 1957-58; Ministry of Trade 1958-60; Ministry of Finance 1961-, Budget Dir. 1970-74, Under-Sec. 1974-76; mem. Board Devt. Assistance Agency 1962-65, Inst. of Defence Org. and Man. 1968-70, Nat. Audit Office 1969-74, Agency for Admin. Devt. 1974-; Deputy Group of Ten 1974-; Chair. Board of Dirs. Bank of Sweden 1974-77; mem. Police Comm. 1962-64, Defence Comm. 1965-68; Chair. Relocation of Gov. Admin. Comm. 1970-72. *Publications:* Skr Frantr av i dag o i morgon 1960, Hur Sverige styres (The Government of Sweden) 1968, Den sv. statsförvaltningen 1969, Swedish Government Administration 1971. *Address:* Finansdepartementet, Fack, S-103 10 Stockholm, Sweden. *Telephone:* 08-7631000 (Finansdepartementet).

VINES, Sir William Joshua, Kt., C.M.G.; Australian business executive and farmer; b. 27 May 1916, Terang; s. of Percy V. and Isabella Vines; m. Thelma J. Ogden 1939; one s. two d.; ed. Haileybury Coll., Victoria; army service, Middle East, New Guinea and Borneo 1939-45; Sec. Alexander Fergusson Pty. Ltd. 1938-40, 1945-47; Dir. Goodlass Wall and Co. Pty. Ltd. 1947-49, Lewis Berger and Sons (Australia) Pty. Ltd. and Sherwin Williams Co. (Aust.) Pty. Ltd. 1952-55; Man. Dir. Lewis Berger and Sons (Victoria) Pty. Ltd. 1949-55; Man. Dir. Lewis Berger & Sons Ltd. 1955-60; Man. Dir. Berger, Jensen & Nicholson Ltd. 1960-61; Man. Dir. Int. Wool Secr. 1961-69, mem. Board 1969-; Chair. Dalgety Australia Ltd. 1969-, Carbonless Papers (Wiggins Teape) Pty. Ltd. 1970-78, Assoc. Pulp & Paper Mills Ltd.; Dir. Commercial Union Assurance Co. of Australia Ltd. 1969-78, Port Phillip Mills Pty. Ltd., Tubemakers of Australia Ltd., Conzinc Riotinto of Australia Ltd., Dalgety Ltd. (U.K.), Dalgety New Zealand Ltd., Australia and N.Z. Banking Group Ltd.; Chair. Sir Robert Menzies Memorial Trust; Chair. Council, Hawkesbury Agricultural Coll. *Leisure interest:* swimming. *Address:* 73 Yarranabbe Road, Darling Point, Sydney; Old Southwood, Tara, Queensland, Australia. *Telephone:* 328-7970 (Sydney); 361 (Southwood).

VINICCHAYAKUL, Serm D. en D.; Thai politician and lawyer; b. 2 June 1908; m. Chomsri Poshyananda 1941; two s. two d.; ed. Assumption Coll. and Faculté de Droit, Univ. of Paris; appointed Sec.-Gen. of Judicial Council 1946; Gov. Bank of Thailand 1946-47, 1952-54; Prof. of Law Thammasat Univ. 1954; Under-Sec. for Finance 1954-65; Gov. IBRD, IFC and IDA 1965; Minister of Finance 1965-71, 1972-73; Chair. Exec. Board of Econ. and Social Devt. Council 1972; Senator 1974-76; Pres. Royal Inst. of Thailand 1976-; Knight Grand Cross (First Class), Order of Chula Chom Klao; Knight Grand Cordon (Special Class), Order of the White Elephant; Knight Grand Cordon, Order of the Crown of Thailand. *Address:* 159 Asoke Road, Bangkok, Thailand.

VINOGRADOV, Ivan Matveyevich; Soviet mathematician; b. 14 Sept. 1891, Milolyub, Tver (now Kalinin) Region; ed. Leningrad Univ.; Lecturer and later Prof. Perm Univ. 1918-20; Prof. Leningrad Polytech. Inst. and Leningrad Univ. 1920-34 (First Chair. of Numbers, Leningrad Univ.); mem. U.S.S.R. Acad. of Sciences 1929-, Dir. Steklov Inst. of Mathematics 1932-; hon. mem. London Math. Soc., Netherlands Math. Soc., American Philosophical Soc., Royal Soc., London) American Acad. of Arts and Sciences, Royal Danish Acad. of Sciences, Indian Math. Soc., Hungarian Acad. of Sciences, Italian Acad. of Sciences; foreign mem. Serbian Acad. of Sciences 1959-, Amsterdam Math. Soc.; Corresp. mem. French Acad. of Sciences, German Acad. of Sciences; Hero of Socialist Labour 1945, 1971; State Prize 1941, Lenin Prize 1972, Order of Lenin (five), "Hammer and Sickle" Gold Medal (twice), Lomonosov Gold Medal 1971; Hon. Ph.D. (Oslo Univ.) 1950. *Publication:* New Methods in Analytic Theory of Numbers. *Address:* Steklov Mathematics Institute, U.S.S.R. Academy of Sciences, Vavilova str. 42, Moscow 117333, U.S.S.R.

VINOGRADOV, Vladimir Aleksandrovich; Soviet historian and diplomatist; b. 1907; ed. Leningrad Univ.; fmr. Prof. of History; Diplomatic Service 1939-; Counsellor, Turkey 1940, Amb. 1940-48; Head, Dept. of UN Affairs, Ministry of Foreign Affairs 1948-50; Chair. U.S.S.R. Council of Ministers Radio Cttee. 1950-53; Amb. to France 1953-65; on staff of Ministry of Foreign Affairs 1965-67; Amb. to Egypt (fmrly. United Arab Repub.) 1967-73; Head Perm. Mission to UN, Geneva Jan. 1974-; mem. Central Auditing Comm. of CPSU 1962-66; Grand Croix Légion d'honneur. *Address:* Permanent Mission of the U.S.S.R. to the United Nations Office, Geneva, Switzerland.

VIOLLET, Paul; French engineer; b. 10 Nov. 1919, Paris; s. of Louis Viollet and Paule Mornard; m. Laetitia de Royer-Dupré 1944; one s. two d.; ed. Coll. Stanislas, Paris, Ecole Polytechnique de Paris and C.P.A. de Paris; Man. Cie. de Saint-Gobain 1956-61; Vice-Chair. and Gen. Man. Produits Chimiques Pechiney-Saint-Gobain 1961-72; Dir.-Gen. Man. of Rhône-Progil 1972-75; Gen. Man. Rhône-Poulenc-Polymères 1975; Chair. Syndicat Professionel des Producteurs des Matières Plastiques; Vice-Chair. Assen. of Plastics Manufacturers in Europe (APME); Dir. Rhône-Poulenc-Industries, Naphtachimie, Distugil, Soc. des Industries Chimiques du Nord de la Grèce (Athens), Union des Industries Chimiques; Chevalier, Légion d'honneur. *Address:* 22 avenue Montaigne, 75008 Paris (Office); 112 avenue de Versailles, 75016 Paris, France (Home). *Telephone:* 776 41-51.

VIOT, Jacques Edmond, L. ÈS L.; French diplomatist; b. 25 Aug. 1921, Bordeaux; m. Jeanne de Martimprey de Romecourt 1950; ed. Bordeaux and Paris lycées and Ecole Normale Supérieure and Ecole Nationale d'Admin.; Lecturer in French, Univ. of Dublin 1945-47, Ecole Nat. d'Admin. 1948-50; Foreign Office 1951-53, Second Sec., London 1953-57; First Sec., Rabat 1957-61; held various posts in central admin. 1961-72; Amb. to Canada 1972-77; Gen. Insp. for Foreign Affairs 1977-; Officier, Légion d'honneur, Officier, Ordre national du Mérite. *Address:* 19 rue de Civry, 75016 Paris, France.

VIRA, Dharma; Indian civil servant and diplomatist; b. 20 Jan. 1906; ed. Lucknow and Allahabad Univs., and London School of Economics and Political Science; joined Civil Service 1930; Joint Magistrate Aligarh 1930-34, Almora 1934-36, Bareilly 1936; Joint

Sec. Industries and Agricultural Exhbn., Lucknow 1936-37; Officiating District Magistrate, Bareilly 1937; District Magistrate, Etah 1937-38, Almora 1948-41; with Commerce Dept., Govt. of India 1941-44, Deputy Sec. Industries and Civil Supplies Dept. 1944-45, Textile Commr. 1945-47, Joint Sec. to Cabinet 1947-50; Principal Private Sec. to Prime Minister 1950-51; Commercial Adviser, High Comm. London 1951-53; Amb. to Czechoslovakia 1954-56; Sec. Ministry of Works, Housing and Rehabilitation 1956-63; Chief Commr. for Delhi 1963-64; Cabinet Sec. and Sec. to the Council of Ministers 1964-66; Chair. Atomic Energy Comm. and Sec. Dept. of Atomic Energy 1966; Gov., Punjab and Haryana 1966-67; Gov. of W. Bengal 1968-69; Gov. of Mysore 1969-72; Chair. Admin. Staff, Coll. of India; Pres. Bharat Scouts and Guides. *Address:* A 53 Vasant Vihar, New Delhi, India.

VIRATA, Cesar Enrique, B.S.BUS.ADM., B.S.MECH.ENG., M.B.A.; Philippine finance executive; b. 12 Dec. 1930, Manila; s. of Enrique Virata and Leonor Aguinaldo; m. Joy Gamboa 1956; two s. one d.; ed. Univ. of Pennsylvania, U.S.A. and Univ. of the Philippines; Dean, Coll. of Business Admin., Univ. of the Philippines 1961-69; Chair. and Dir. Philippine Nat. Bank 1967-69; Deputy Dir.-Gen. Presidential Econ. Staff 1967-68; Under-Sec. of Industry 1967-69; Chair. Board of Investments 1967-70; Sec. of Finance 1970-; Chair. Land Bank of the Philippines 1973-; mem. Monetary Board; mem. Nat. Econ. and Devt. Authority 1972-; Chair. IMF and IBRD Devt. Cttee. 1976; L.H.D. h.c., D.P.A. h.c., Dr. h.c. (Philippines). *Leisure interests:* tennis, pelota filipina, golf, reading. *Address:* Ministry of Finance, Manila (Office); 63 East Maya Drive, Quezon City, Philippines (Home). *Telephone:* 59-52-62 and 59-71-39 (Office); 99-74-19 (Home).

VIROLAINEN, Johannes, PH.D.; Finnish politician and farmer; b. 31 Jan. 1914, Viipuri; ed. Helsinki Univ. (Agriculture and Forestry); Vice-Chair. Agrarian Party 1946-64, Chair. 1965- (name of party changed to Centre Party 1965); Second Minister of Interior 1950-51; Second Minister of Prime Minister's Office 1951; Minister of Educ. 1953-54, 1968-70, of Foreign Affairs 1954-56, 1957, 1958, of Agric. 1961-63, of Agric. and Forestry Sept. 1976-; Deputy Prime Minister 1958, 1962-63, 1968-70, May 1977-; Prime Minister 1964-66; Speaker of Parl. 1966-69; First Minister of Finance 1972-75; Chair. Nat. Planning Council 1956-66; Grand Crosses Orders of Merit (Argentina), Leopold (Belgium), Dannebrog (Denmark), Hawk (Iceland); Grand Officer Order of Polonia Restituta (Poland). *Address:* Kirkniemi, Lohja, Finland.

VIRTA, Nikolay Yevgeniyevich; Soviet writer; b. 19 Dec. 1906, Lazovka, Tambov Region; journalist 1923-35; State prizewinner (4 times). *Publications:* plays: Earth 1937, Slander 1939, Our Daily Bread 1947, Plot of the Doomed 1948, Endless Horizons 1957, In Summer the Sky is High 1960, Three Stones of Faith 1960, Operation Czech Forest 1961, Thirst 1961, Golgotha 1961, Winds Blew and Blew 1962, Niagara Falls 1962, Secret of Clemance and Son 1964; novels: Loneliness 1935, The Adventurer 1937, Evening Bells 1951, Steep Hills 1955, Soil Returned 1960, The One We don't Know 1960, Our Bertha 1960, Field Marshal 1961, Aksushka 1962, Two Days of their Life 1962, Fast Running Days 1965, Novels of Last Years 1965, Cat with a Long, Long Tail 1966, The End of a Career 1967, How it used to be and how it is 1973, Selected Works (2 vols.) 1973. *Address:* c/o U.S.S.R. Union of Writers, 52 Vorovskogo ulitsa, Moscow, U.S.S.R.

VISENTINI, Bruno, D.IUR.; Italian lawyer, politician and business executive; b. 1 Aug. 1914, Treviso; ed. Univ. of Padua; Mem. Consultative Assembly; Under-Sec. of Finance, Govt. of Alcide de Gasperi; Vice-Chair. Istituto per la Ricostruzione Industriale (I.R.I.) until 1973; Chair. and Pres. Olivetti C., S.p.A. until 1974, Vice-Chair. 1976-78, Chair. and Chief Exec. Officer 1978-; Vice-Chair. Confindustria until 1974; Dir. Montecatini-Edison; fmr. Prof. of Commercial Law, Univ. of Urbino; Lecturer in Business Law, Univ. of Rome; Pres. Italian Venice Cttee.; mem. Parl.; Minister of Finance 1974-76; nominated Minister of Finance 1979; Radical Republican. *Address:* 14 Via Bacone, Rome, Italy.

VISHNEVSKAYA, Galina Pavlovna; Soviet singer; b. 1926, Leningrad; m. Mstislav Rostropovich (*q.v.*); studied with Vera Garina 1942-52; Leningrad Musical Theatres 1944-52; joined Bolshoi Theatre 1952-; numerous parts in operas, notably Leonora in Fidelio, and Tatiana in Eugene Onegin (also in the film), Aida (Aida), Kupava (Snow Maiden), Liza (Queen of Spades), Chio-Chio-San (Madame Butterfly), Margaret (Faust), Natasha (War and Peace), Cherubino (Marriage of Figaro); People's Artist of R.S.F.S.R. and U.S.S.R. *Address:* c/o State Academic Bolshoi Theatre of U.S.S.R., 1 Ploshchad Sverdlova, Moscow, U.S.S.R.

VISSCHER, Maurice B., M.S., PH.D., M.D.; American professor of physiology; b. 25 Aug. 1901, Holland, Michigan; s. of Johannes W. Visscher and Everdena Bolks; m. Janet Gertrude Pieters 1925; two s. two d.; ed. Hope Coll., Holland, Michigan, and Univ. of Minnesota; Prof. and Head of Dept. of Physiology, Univ. of Minnesota 1936-68, Regent's Prof. of Physiology 1967; Pres. American Physiological Soc. 1948-49, Board of Dirs. of Biological Abstracts 1949-53, Council of Int. Orgs. of Medical Sciences 1952-55; Pres. 1952-65; Nat. Soc. for Medical Research, Pres. 1965-77; Sec.-Gen. Int. Union of Physiological Sciences 1953-59; Pres. Soc. for Experimental Biology and Medicine 1967-69; Chair. U.S. Nat. Cttee. for Int. Union of Physiological Sciences 1960-69; mem. U.S. Nat. Acad. of Sciences, American Philosophical Soc.; Fellow, American Acad. of Arts and Sciences; American Heart Assn. Outstanding Achievement Award. *Publications:* Ethical Constraints and Imperatives in Medical Ethics 1975; Editor: Chemistry and Medicine 1940, Claude Bernard, Experimental Medicine 1967, Humanistic Perspectives in Medical Ethics 1972; Chair. Editorial Cttee. Handbook of Physiology (15 vols.) 1956-57; approx. 200 papers in physiology journals. *Address:* 120 Melbourne Avenue, S.E., Minneapolis, Minn. 55414, U.S.A. *Telephone:* (612) 378-9539.

VISSER 'T HOOFT, Willem Adolph, DR. THEOL., D.D.; Netherlands ecclesiastic; b. 20 Sept. 1900, Haarlem; s. of Hendrik P. Visser 't Hooft and Jacoba Lieftinck; m. Henriette Boddaert 1924 (died 1968); two s. one d.; ed. Univ. of Leiden; Mem. of the staff of World Cttee. of Y.M.C.A. 1924; Gen. Sec. World Student Christian Fed. 1929; Gen. Sec. World Council of Churches 1938-66, Hon. Pres. 1968-; Ed. The Student World 1928-38; Ed. The Ecumenical Review 1948-66; Grand Cross of the Order of Merit, Fed. Repub. of Germany 1957; Officer Légion d'honneur 1959; Wateler Peace Prize 1962; Cross of the Grand Commdr. of the Holy Sepulchre 1963; Commdr. Order of St. Andrew 1963; Order of St. Vladimir 1964; Commdr. Order of the Netherlands Lion 1965; Hon. Commdr. Order of St. John 1966; Peace Prize of German Book Trade 1966; Award of Family of Man 1966; Grotius Medal 1966; Sonning Prize, Copenhagen 1967; Cardinal Bea Prize 1975; Prize of Inst. des Sciences de la Paix (Fondation Weiss), Strasbourg 1976; Hanseatic Goethe Prize 1977; Hon. Citizenship of Geneva 1967; Hon. D.D. (Aberdeen, Princeton, Toronto, Geneva, Yale, Oberlin, Oxford, Harvard, Tokyo, Paris, Brown Univ., Berlin, Zürich, Louvain), Hon. Prof. of Theological Faculty of Budapest 1947, and Theological Acad. in Moscow 1964; Hon. Fellow, Hebrew Univ., Jerusalem 1972, Open Univ. 1974. *Publications:* The Background of the Social Gospel in America 1928, Anglo-Catholicism and Orthodoxy 1933, None Other Gods 1937, The Church and its Function in Society (with Dr. Oldham) 1937, Wretchedness and Greatness of the Church 1944, The Struggle of the Dutch Church 1946, Le Conseil oecuménique des Eglises, nature et ses limites 1946, Rembrandt et la Bible 1947, The Kingship of Christ 1947, La Renovación de la Iglesia 1952, The Meaning of Ecumenical 1953, The Ecumenical Movement and the Racial Problem 1954, The Renewal of the Church 1956, Rembrandt and the Gospel 1957, The Pressure of our Common Calling 1959, No Other Name 1963, Peace among Christians 1967, Memoirs 1973, Has the Ecumenical Movement a Future? 1974. *Address:* 150 Route de Ferney, 1211 Geneva 20 (Office); 13 Chemin des Voirons, 1224 Chêne-Bougeries GE, Geneva, Switzerland (Home).

VISSEUR, Pierre, LL.D.; Swiss international administrator; b. 10 June 1920, Bré; s. of Pierre L. Visseur and Charlotte van Aken; m. Suzy Butikoffer 1947; one s. two d.; ed. Univs. of Basel, Geneva and Berne, and Inst. of International Studies, Geneva; Sec.-Gen., European Div., World Brotherhood 1950-62; Dir. World Fed. for Mental Health 1963-68; Dir. Pharmaceutical Proprietary Assn. of Europe (AESGP) 1969-; Past Pres. Fed. of Private and Semi-Official Int. Orgs. in Geneva. *Publication:* Evolution of Control of International Labour Legislation 1946. *Leisure interests:* mountaineering, gardening, history. *Address:* 8 Avenue des Amazones, 1224 Chêne-Bougeries, Geneva, Switzerland; 135 Avenue Wagram, 75017 Paris, France. *Telephone:* 022-484697 (Geneva); 763-11-33 (Paris).

VISWANATHAN, Kambanthodath Kunhan, B.A., B.L.; Indian administrator; b. 4 Nov. 1914, Mattancheri, Kerala; s. of Kunhan and Lakshmi; m. Saradamani Devi (deceased); four s.; legal practice in Cochin 1938; mem. Cochin Assembly, later mem. Travancore-Cochin Assembly 1948-50; mem. Kerala Assembly 1957, re-elected 1960; Sec. Congress Legislature Party 1957-59, 1960-64; Gen. Sec. Kerala Pradesh Congress Cttee. 1966-69, Covener ad hoc 1969, Pres. 1970-73; Ed. The Republic, Malayalam weekly 1967-69; Gov. of Gujarat 1973-78. *Address:* c/o Raj Bhavan, Shahibag, Ahmedabad-380004, Gujarat, India. *Telephone:* 66477.

VITAL BRAZIL, Alvaro; Brazilian civil engineer and architect; b. 1909; ed. School of Polytechnic and Fine Arts Rio de Janeiro; fmr. Prof. at Colégio Santo Antonio Maria Zacarias and at the

French Lycée; Mem. Inst. of Brazilian Architects; two first awards in competitions for architectural design (São Paulo and Minas Gerais); mem. of the Exec. Council of Inst. of Brazilian Architects. *Address:* Avenida Presidente Vargas 590, Rio de Janeiro, RJ, Brazil.

VITALI, Felice Antonio; Swiss radio and television official; b. 24 March 1907, Bellano; s. of Battista and Leonie Vitali; m. Hilda Schlatter 1930; ed. St. Gall Gymnasium and Commercial Coll.; Ed. Die Presse 1928; Radio Berne 1929; Ed. Schweizer Radio Zeitung 1930; Dir. Radio Svizzera Italiana 1931-47; corresp. Swiss Radio in Berlin 1948-57; Project-leader UNESCO Radio advisory Mission to Libya 1957-58; Head of Information Services, Swiss Television (Zürich) 1958-67; Programme Liaison of Swiss Television, Lugano 1967-; Prix Pisa of the Prix Italia 1962 (for TV documentary). *Radio plays:* I tre amici, La capanna del Bertuli, Idol und Masse, Kraftwerk Mittelmeer, Flut ohne Ebbe, Kampf um die öffentliche Meinung 1955, Atome für die Politik 1956, Die sieben Kiesel 1961; *Television documentaries:* Der alte Mensch, Was war der Generalstreik? Kranke Menschen, halbe Hilfe, Urteil ohne Richter, Testfall Celerina, Die Polizei des Bürgers, Frau Grossrätin, Hauptmann Grüninger, Die Barriere, Das Wagnis: Partner im Rollstuhl, Betrifft Friedrich Glauser. *Publications:* Reporter erleben England, Confidenze del Microfono, Radiohörer das geht dich an, Der alte Mensch und das Fernsehen, Altersprogramme—Ghetto oder Treffpunkt? *Leisure interests:* walking, gardening. *Address:* Ronco Nuovo, 6911 Comano-Lugano, Switzerland. *Telephone:* (091)-51-12-50.

VITSAXIS, Vassilios, PH.D.; Greek diplomatist; b. 22 Oct. 1920, Athens; s. of George and Iphigenia Vitsaxis; m. Zoe-Ketty Ioannidou 1946; no c.; ed. Univ. of Athens; entered diplomatic service 1946; Liaison Officer of Greek Govt. to Balkan Cttee. of UN 1947; later Sec., Paris; mem. Del. to Council of Europe; Consul, Belgium; Counsellor and Chargé d'affaires, Perm. Mission of Greece at UN and Consul-Gen., New York; Counsellor, Ankara 1964, Minister-Counsellor and Chargé d'affaires 1965-66; Amb. and Perm. Del. to Council of Europe 1966-69; Amb. to U.S.A. 1969-72; Amb. to India, Nepal, Sri Lanka, Bangladesh, Burma, Malaysia, Singapore, Thailand 1973-, fmrly. accred. to Indonesia and the Repub. of Viet-Nam; mem. Inst. of Int. and Private Law; Grand Commdr. Royal Order of George I, Grand Commdr. of Phoenix, Commdr. of the Holy Sepulchre (Jerusalem) and Golden Cross of the Crown (Belgium), Award of Acad. Française. *Publications:* Plato and the Upanishads, Hindu Epics, Myths and Legends, Monopatia, Pantoteina Kai Proskaira (poetry), The Influence of Greek Philosophy in the Evolution of Roman Law, Studies in Hellenic Labour Law; Reflets (collection of poetry). *Leisure interests:* photography, poetry, ham radio. *Address:* Embassy of Greece, 188 Jor Bagh, New Delhi, India. *Telephone:* 61-7854; 387119.

VITTI, Monica (Monica Luisa Ceciarelli); Italian actress; b. 3 Nov. 1931, Rome; films include L'Avventura 1959, La Notte 1960, L'Eclisse 1962, Dragées au Poivre 1963, The Red Desert 1964, Modesty Blaise 1966, The Chastity Belt 1967, Girl With a Pistol 1969, Le Coppie 1971, La Pacifiste 1971, La Tosca 1971, Teresa la larda 1973, A mezzanotte va la ronda de piacere 1975, Duck in Orange Sauce 1975.

VIVIAN, Robert Evans, M.A., PH.D.; American university dean; b. 20 April 1893, Melvin, Ill.; s. of Rev. Robert L. and Blanche Weatherby Vivian; m. Belle Doyle 1919; two s.; ed. Univ. of Southern Calif. and Columbia Univ.; Eng. Dept., Home Telephone Co., Los Angeles 1912-14; Teacher High School and Junior Coll. and Chief of Assay Office, Kern County, Calif. 1918-28; Asst. to Prof. Columbia Univ. 1929; electrochemical engineer in charge pilot plant operations Int. Agricultural Corpn. 1930-31; research Chemist, later Devt. Engineer, Gen. Chemical Co., N.Y. 1931-35; Dir. of Research, Metals Disintegrating Co., Elizabeth, N.J. 1935-37; Prof. and Head of Dept. Chemical Eng. Univ. of Southern Calif. 1937-42, Dean of School of Eng. 1942-58, Emer. 1958-; Chair. Eng. Div., Long Beach State Coll. 1958-64, Emer. Dean 1964-; mem., Sec. and Chair. several chemical asscns.; mem. Eng. Coll. Admin. Council 1948-51, George Westinghouse Award Cttee. 1949-51; Chemical Production Specialist, M.S.A., U.S. Govt. Mission to Italy 1952, Tech. Consultant M.S.A., U.S. Govt. in S.E. Asia 1953; Educational Consultant Northrop Inst. of Tech., Calif. 1964-73; Hearing Board of Air Pollution, Control District, Los Angeles County 1970-75; Hon. Sc.D. (Northrop Inst. of Tech.) 1968, (Univ. of S. Calif.) 1969. *Leisure interests:* church work, gardening, tennis, history. *Address:* Room 502, Vivian Hall of Engineering, University of Southern California, Los Angeles, Calif. 90007 (Office); 862 Victoria Avenue, Los Angeles, Calif. 90005, U.S.A. (Home).

VLADIMIROV, Vasiliy Sergeyevich, D.SC.; Soviet mathematician; b. 9 Jan. 1923, Dzhaglevo, Petrograd (now Leningrad) region; s. of Sergey Ivanovich Vladimirov and Maria Semyonovna Vladimirova; m. Nina Yakovlevna Ovsyannikova 1948; two s.; ed. Leningrad State Univ.; Jr. Research Worker, Leningrad Dept., V. A. Steklov Inst. of Math., U.S.S.R. Acad. of Sciences 1948-56; Sr. Research Worker, Steklov Inst. of Maths., Moscow 1956-69, Head, Dept. of Math. Physics 1969-; Prof. Physico-tech. Inst. 1965-; mem. CPSU 1944-; corresp. mem. U.S.S.R. Acad. of Sciences 1968-70, mem. 1970-; State Prize 1953; Gold Medal of A. N. Liapounov 1971; Orders of the Labour Red Banner 1967, 1973; Order of Lenin 1975 and other decorations. *Publications:* works in the field of numerical methods of problems solution of mathematical physics; analysis of transfer equation; theory of holomorphic functions of several complex variables and distribution theory, and their applications in mathematical physics. *Leisure interests:* skiing, fishing, tennis. *Address:* c/o Steklov Institute of Mathematics, Vavilova Street 42, B-333 Moscow, U.S.S.R. *Telephone:* 135-14-49 (Office); 135-55-71 (Home).

VLIELANDER HEIN, François Emile, D.C.L., O.B.E.; Netherlands industrialist; b. 22 Jan. 1916, The Hague; m. E. G. H. Dijckmeester; ed. Univ. of Leiden; joined Philips Eindhoven 1941-43; mil. service 1944-47; head of mil. mission Germany 1948-49; Dir. NIVAG (construction company) 1949-50; banker 1951-53; Dir. N.V. Hollandsche Draad-en Kabelfabriek 1953-61; Chair. Exec. Cttee. N.K.F. Groep N.V. Jan. 1971-; Commdr. Order Industry and Agric. of Cuba. *Address:* N. K. F. Groep B.V. Rijswijk (Z.H.), J. C. van Markenlaan 5, Netherlands (Office); 83 Boekenrodeweg, Aerdenhout, Netherlands (Home). *Telephone:* 070-99-31-12 (Office).

VO CHI CONG: Vietnamese politician; b. 1914, Central Viet-Nam; fmr. mem. Vietcong force; fmr. Sec. Southern People's Party, a main element in Nat. Liberation Front (NLF); mem. Cen. Cttee. of Lao Dong party for many years; Minister for Fisheries, Socialist Repub. of Viet-Nam 1976-77; Vice-Premier, Council of Ministers 1976-; Minister for Agriculture 1977-78; mem. Politburo of CP of Viet-Nam Dec. 1976-. *Address:* Ministry of Agriculture, Hanoi, Viet-Nam.

VO NGUYEN GIAP, Gen.; Vietnamese army officer; b. 1912, Quangbinh Province; ed. French Lycée in Hué, and law studies at Univ. of Hanoi; History teacher, Thang Long School, Hanoi; joined Viet-Nam CP in early 1930s; fled to China 1939, helped organize Vietminh Front, Viet-Nam 1941; Minister of Interior 1945, became Commdr.-in-Chief of Vietminh Army 1946; defeated French at Dien Bien Phu 1954; Deputy Prime Minister, Minister of Defence and C.-in-C., Democratic Repub. of Viet-Nam to 1976, Socialist Repub. of Viet-Nam July 1976-; mem. Politburo Lao-Dong Party (now CP of Viet-Nam). *Publications:* People's War, People's Army, Big Victory, Great Task 1968. *Address:* Dang Cong san Viet-Nam, 1c Bd. Hoang Van Thu, Hanoi, Viet-Nam.

VO VAN KIET; Vietnamese politician; b. 1922, South Viet-Nam; joined CP of Indo-China in 1930s; mem. Lao Dong Party (renamed Communist Party of Viet-Nam Dec. 1976), mem. Cen. Cttee. 1958-; mem. Cen. Office for South Viet-Nam during war; alt. mem. Politburo, CP of Viet-Nam Dec. 1976-; now also Chair. party Cttee. in Ho Chi Minh City. *Address:* c/o Ho Chi Minh City Committee of the Communist Party of Viet-Nam, Ho Chi Minh City, Viet-Nam.

VOGEL, Brig.-Gen. Herbert Davis, DR. ING., M.S., C.E., B.S.; American civil servant; b. 26 Aug. 1900, Chelsea, Mich.; s. of Lewis P. Vogel and Pearl M. Davis; m. Loreine Elliott 1925; two s.; ed. Univs. of Michigan and California, U.S. Military Acad. and Berlin Technical Univ.; Commissioned U.S. Army 1924, served through all ranks to Brig.-Gen.; Builder and Dir. Waterways Experiment Station 1930-34; District Engineer, Pittsburgh, Pa. 1940-43; S.W. Pacific Theatre 1944-45; District Engineer, Buffalo, N.Y. 1945-49; Maintenance Engineer and Lieut.-Gov., Panama Canal 1949-52; Engineer S.W. Division, Dallas 1952-54; Chair. Tennessee Valley Authority 1954-62; mem. Beach Erosion Board 1946-49, Mississippi River Comm. 1952-54, Board of Engineers for Rivers and Harbours 1952-54; mem. Perm. Int. Council of Perm. Int. Assn. of Navigation Congresses 1957-64, Hon. mem. 1967-; Engineer Adviser, Int. Bank for Reconstruction and Devt. 1963-67; Consulting Engineer, Principal of Herbert D. Vogel Associates 1968-; mem. U.S. Cttee. Int. Comm. on Large Dams; Licensed professional engineer, N.Y., Tex., Tenn., Dist. of Columbia; Dir. Int. Gen. Industries; Fellow and Hon. mem. A.S.C.E.; Nat. Dir. and Hon. mem. S.A.M.E.; mem. Nat. Soc. of Professional Engineers, Benjamin Franklin Fellow, R.S.A., London, Industrial Cttee., American Power Conf., American Inst. of Consulting Engineers, Nat. Acad. of Eng.; Dir. Corps of Engineers Historical Foundation; Hon. mem. Public Works Historical Soc.; Legion of Merit; Distinguished Service Medal; Knight Grand Cross, First Class Order of the Most Noble Order of the

Cross of Thailand; Colon Alfaro Medal; Philippine Liberation and Ind. Medals; mem. Order of the Carabao. *Leisure interests:* travel, gardening, reading. *Address:* 601-2 Washington Building, Washington, D.C. 20005 (Office); 3033 Cleveland Avenue, N.W., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* (202) 638-0010 (Office); (202) C05-3033 (Home).

VOGEL, Rudolf, DR.ING.; German business executive; b. 10 Feb. 1918, Hamburg; s. of Paul and Meta (née Liebetrau) Vogel; m. Marianne Ahlers 1950; one s. one d.; ed. Staatslehranstalt and Univ. of Hamburg and Technische Hochschulen, Brunswick and Aachen; Head clerk Gutehoffnungshütte Sterkrade AG 1954-64; Man. Ottensener Eisenwerke GmbH, Hamburg 1964-68; mem. Exec. Board, Salzgitter Maschinen AG 1968-75; Consulting Engineer Devt., Innovation, Licenser 1975- (HDW-Salzgitter, MAN, Hochtief AG, etc.). *Leisure interests:* reading, music, hiking, travel. *Address:* 2000 Hamburg 55 (Blankenese), Pikartenkamp 42a, Federal Republic of Germany. *Telephone:* 040-868424.

VOGELSANG, Günter; German business executive; b. 20 Jan. 1920, Krefeld; fmr. mem. Man. Board Mannesmann AG; Chair. Man. Board Fried. Krupp GmbH 1968-72, Dornier AG; Deputy Chair. Daimler-Benz AG, Stuttgart; mem. Board Dirs. Deutsche Bank AG, Frankfurt, Stahlwerke Röchling-Burbach GmbH., Völklingen/Saar, Ruhrkohle AG, Essen, Rheinstahl AG, Essen, Gerling-Konzern, Köln. *Address:* 4000 Düsseldorf-Oberkassel, Kaiser-Friedrich-Ring 84, Federal Republic of Germany.

VOGHEL, Baron Franz de; Belgian banker; b. 21 Dec. 1903, Brussels; m. Marie-Antoinette François; one s. two d.; ed. Univ. of Louvain; Dir. of Banking Comm. 1933-45; Prof. Univ. of Louvain; mem. Conseil Central de l'Economie, Banque Centrale du Congo, Fonds des Rentes, Comm. Bancaire; Minister of Finance Aug. 1945-July 1946; fmr. Deputy Gov. Nat. Bank of Belgium; fmr. Pres. Inst. de Réescompte et de Garantie; mem. Monetary Cttee. EEC 1958-71; Pres. Palais des Beaux-Arts, Brussels, Foundation Roi Baudouin 1975-; awarded U.S. Medal of Freedom. *Publications:* Contrôle des banques, Statut légal des banques. *Address:* 78 rue du Commerce, 1040 Brussels (Office); 9 rue des Sablons, Brussels 1000, Belgium (Home). *Telephone:* 511-73-30.

VOGT, Ernst, S.T.L., S.S.D.; Swiss ecclesiastic; b. 30 Jan. 1903, Basle; s. of Emil and Anna Vogt; ed. Innsbruck Univ.; Prof. of Sacred Scripture, Theological Faculty São Leopoldo 1939-48; Emer. Prof. of Old Testament Exegesis, Pontifical Biblical Inst., Rome 1949-. *Publications:* Os Salmos Traduzidos ■ Explicados 1951, Lexicon Aramaicum Veteris Testamenti 1971. *Address:* Via della Pilotta 25, 00187 Rome, Italy. *Telephone:* 679-6453.

VOGT, Hersleb; Norwegian diplomatist; b. 20 May 1912, Oslo; s. of Lorentz Vogt and Ida Fabricius; m. Inger Hansen 1947; one d.; ed. Univ. of Oslo; entered Diplomatic Service and served Ministry of Foreign Affairs 1936, Paris and Luxembourg 1937, Rome 1938; Ministry of Foreign Affairs London 1944, Oslo 1945, Brussels and Luxembourg 1948, London and Dublin 1949; Minister to Japan 1953-58, Amb. 1958; Amb. to Fed. Repub. of Germany 1958-63, to Denmark 1963-67, to France 1967-73, 1977, to Sweden 1973-77; Commdr. Order of St. Olav; Norwegian War Participation Medal (with Star); C.V.O.; Commdr. Order of Phoenix (Greece); Grand Cross Order of Rising Sun (Japan); Grand Cross (First Class), Order of Merit (Fed. Repub. of Germany); Grand Cross, Order of Dannebrog (Denmark); Grand Commdr. Légion d'honneur; Grand Cross, Order of Nordstjarnen (Sweden). *Address:* Royal Norwegian Embassy, 28 rue Bayard, 75008 Paris 8e, France. *Telephone:* 359-51-59.

VOGT, Joseph, DR. PHIL.; German university professor; b. 23 June 1895, Schechingen; s. of Dionys and Josephine (née Fischer) Vogt; m. Gertrud Dimroth 1931; one s. five d.; ed. Lyceum Mergentheim, Gymnasium Rottweil, and Univs. of Tübingen and Berlin; graduated 1921; became lecturer 1923; Prof., Univs. of Tübingen 1926, Würzburg 1929, Breslau 1936, Tübingen 1940, 1946, Frieburg 1944; Prof. Emer., Univ. of Tübingen 1962; mem. Akad. der Wissenschaften und der Literatur, Mainz; Corresp. mem. Heidelberger Akad.; Hon. mem. Österreichische Akad.; Foreign mem. Acad. Inscriptions et Belles Lettres; Medal, Cultori di Roma 1971. *Publications:* Die alexandrinischen Münzen 1924, Herodot in Ägypten 1929, Römische Republik 1932 (Italian edns. 1939, 1968), Ciceros Glaube ■■ Rom 1935, Kaiser Julian und das Judentum 1939, Vom Reichsgedanken der Römer 1942, Constantin der Grosse und sein Jahrhundert 1949, 1960, 1973 (Spanish edn. 1956), Gesetz und Handlungsfreiheit 1955, Struktur der antiken Sklavenkreige 1957, Wege zum historischen Universum 1961 (Japanese edn. 1966, Spanish 1971), Der Niedergang Roms 1965 (Italian edn. 1965, English 1967, Spanish 1968), Sklaverei and Humanität 1965, 1972 (Italian edn. 1969, English edn. 1974, American edn. 1975). *Leisure interests:* modern literature, expressionist and impressionist painting. *Address:* 74 Tübingen, Im Rotbad 10, Federal Republic of Germany. *Telephone:* 63011.

VOGÜÉ, Comte Arnaud de; French businessman; b. 11 June 1904; Hon. Pres. Cie. de Saint-Gobain Pont-à-Mousson 1970-; Officier, Légion d'honneur, Croix de guerre, Commdr. Palmes académiques. *Address:* 48 rue du Docteur-Blanche, Paris 16e; and le Peseau, 18 Boilleret, France (Homes).

VOIGHT, Jon, American actor; b. 29 Dec. 1938, Yonkers, New York; s. of Elmer and Barbara (née Camp) Voight; m. 1st Lauri Peters 1962 (divorced 1967); m. 2nd Marcheline Bertrand 1971; one s. one d.; ed. Catholic Univ. *Theatre includes:* A View From the Bridge (New York); That Summer That Fall (New York) 1966; played Romeo at the San Diego Shakespeare Festival; Stanley Kowalski in A Streetcar Named Desire, Los Angeles 1973; *Films include:* Hour of the Gun 1967, Fearless Frank 1968, Out of It 1969, Midnight Cowboy 1969, The Revolutionary 1970, The All-American Boy 1970, Catch 22 1970, Deliverance 1972, Conrack 1974, The Odessa File 1974, Coming Home 1978, The Champ 1979; *Television includes:* End of the Game 1976, Gunsmoke and Cimmaron Strip. *Address:* c/o TRAC Productions, 20th Century Fox Film Corp., 10201 W. Pico Boulevard, Beverly Hills, Calif. 90212, U.S.A.

VOITEC, Ştefan; Romanian politician; b. 19 June 1900, Corabia, Olt County; one d.; ed. Bucharest Polytechnic and Bucharest Univ.; Gen. Sec. Social-Demoratic Party 1944-48; Minister of Nat. Educ. 1944-47; mem. Cen. Cttee. and Alt. mem. Political Bureau, Romanian Workers' Party (now Romanian CP 1955-65; mem. Exec. Political Cttee. of Central Cttee., RCP 1965-; Minister of Home Trade 1955-56, of Consumer Goods Industry 1957-59; Deputy Chair. Council of Ministers 1948-49, 1956-61, mem. Chamber of Deputies 1946-48; mem. Grand Nat. Assembly 1948-, Pres. 1961-74, Vice-Pres. State Council 1961-65, 1974-; Vice-Pres. Nat. Council Socialist Unity Front 1974-; mem. Acad. of Social and Political Sciences 1970-; Hero of Socialist Labour 1964, Hero of Socialist Repub. of Romania 1974. *Address:* c/o State Council, Bucharest, Romania.

VOLCKER, Paul A., M.A.; American banker and government official; b. 5 Sept. 1927, Cape May, N.J.; s. of Paul A. and Alma Klippel Volcker; m. Barbara Marie Bahnson 1954; one s. one d.; ed. Princeton Univ., Harvard Univ. Graduate School of Public Admin., and London School of Econs. and Political Science; Special Asst. Securities Dept., Fed. Reserve Bank of N.Y. 1953-57; Financial Economist, Chase Manhattan Bank, N.Y.C. 1957-62, Dir. of Forward Planning 1965-69; Dir. Office of Financial Analysis, U.S. Treasury Dept. 1962-63, Deputy Under-Sec. for Monetary Affairs 1963-65, Under-Sec. Monetary Affairs 1969-74; Senior Fellow, Woodrow Wilson School of Public and Int. Affairs, Princeton Univ. 1974-75; Pres. N.Y. Fed. Reserve Bank Aug. 1975-; mem. Board Council on Foreign Relations, The American Council on Germany, The American Friends of the London School of Econs.; mem. Board of Trustees Rockefeller Foundation, American Nat. Red Cross Endowment Fund; Admin. Fellowship (Harvard), Rotary Foundation Fellow (L.S.E.), Arthur S. Flemming Award (Fed. Govt.), U.S. Treasury Dept. Exceptional Service Award, Alexander Hamilton Award, Fred Hirsch Memorial Lecture 1978. *Address:* Federal Reserve Bank, P.O. Station, New York, N.Y. 10045, U.S.A.

VOLFKOVICH, Semyon Isaakovich; Soviet inorganic chemist and technologist; b. 23 Oct. 1896, Ananyev, Ukraine; ed. Moscow Inst. of Nat. Econ.; Scientific Research Inst. of Fertilizers and Insectofungicides 1921-; Prof. Moscow Inst. of Nat. Economy 1929-; Prof. Moscow Univ. 1947; Pres. All-Union Mendeleyev Soc. 1963-; mem. Acad. of Sciences of the U.S.S.R. 1946-; Mendeleyev prizewinner 1932, State prizewinner 1941; Order of Lenin (five times), Order of the Red Banner of Labour, Mendeleyev Gold Medal 1966. *Publications:* New Cycle of Wet Processing of Phosphorites 1928, Technology of Nitrogen Fertilizers 1935, General Chemical Technology 1959 (2 vols.), The Role of Physical and Chemical Analysis in the Technology of Fertilizers 1961, Chemistry in Agriculture, Hydrothermal Treatment of the Phosphates 1964, Problems of Phosphorus 1975. *Address:* Scientific Research Institute of Fertilizers and Insectofungicides, Leninsky prospekt 55, Moscow; and Moscow State University, Chemical Faculty, U.S.S.R.

VOLK, H.E. Cardinal Hermann, PH.D. TH.D.; German ecclesiastic; b. 27 Dec. 1903, Steinheim/Main; s. of Philipp Volk and Maria Kaiser; ed. Hochschule, Mainz, Univ. of Freiburg and Münster; ordained Priest, Mainz 1927; Curate 1927-35; Asst. Pastor 1939-41; Pastor, Nidda 1941-46; Prof. of Dogmatics, Univ. of Münster 1946-62, Rector 1954-55, Hon. Prof. 1962; Papal House Prelate 1956; Bishop of Mainz 1962-; Hon. Prof., Univ. of Mainz 1963; cr. Cardinal 1973. *Publications:* eighty-one works, including Die Kreaturauffassung bei Karl Barth 1938, Emil Brunners Lehre von der ursprün-

glichen Gottebenbildlichkeit des Menschen 1939, Schöpfungsglaube und Entwicklung 1955, Christus und Maria 1955, Sonntäglicher Gottesdienst 1956, Gesammelte Schriften I 1961, Gesammelte Schriften II 1966, Priestertum heute 1972. *Address:* Am Rosengarten 2, D-6500 Mainz, Federal Republic of Germany. *Telephone:* 06131-82415.

VOLKENSHTEIN, Mikhail Vladimirovich; Soviet physicist; b. 23 Oct. 1912, St. Petersburg (now Leningrad); s. of Vladimir Mikhailovich Volkenshtein and Maria Mikhailovna Volkenshtein; m. Stella Iosifovna Alenikova 1947; one s. one d.; ed. Moscow Univ.; specialist in molecular physics, polymers, biophysics and spectroscopy; Research Assoc. Karpov Physico-Chemical Inst. 1933-41, Optical Inst. 1942-48; Prof. Leningrad Univ. 1945-53, 1962-67; Prof. Inst. of High Molecular Compounds, Acad. of Sciences 1948-67, Inst. of Molecular Biology 1967-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-; State Prize 1950. *Publications:* Vibrations of Molecules 1949 (2nd edn. 1974), Molecular Optics 1951, Structure of Molecules 1955, Configurational Statistics of Polymeric Chains 1958 (English edn. 1963), Molecules and Life 1965 (English edns. 1970, 1974), Enzyme Physics 1967 (English edn. 1970), Molecular Biophysics 1975 (English edn. 1976). *Leisure interests:* painting, literature. *Address:* c/o Institute of Molecular Biology, U.S.S.R. Academy of Sciences, Ul. Vavilova 32, Moscow, U.S.S.R.

VOLPE, John Anthony; American engineer and politician; b. 8 Dec. 1908, Wakefield, Mass.; s. of Vito and Filomena Volpe; m. Jennie Benedetto 1934; one s. one d.; ed. Wentworth Inst., Boston, Mass.; Pres., John A. Volpe Construction Co. 1933-69; Comm. of Public Works, Mass. 1953-56; Fed. Highway Admin. 1956-57; Gov. of Mass. 1960-62, 1964-69; U.S. Sec. of Transportation 1969-73; Amb. to Italy 1973-77; mem. President's Urban Affairs Council 1969; Past Chair. Nat. Govs. Conf.; Republican; Grand Officer, Order of Merit (Italy) 1957, Knight of Malta 1960. *Leisure interests:* golf, family activities. *Address:* c/o Department of State, 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

VON BECKH, Harald J., M.D.; Argentine medical scientist; b. 17 Nov. 1917, Vienna, Austria; s. of Johannes A. and Elisabeth von Beckh (née Flach-Hillé); ed. Theresianum High School, Vienna and Vienna Univ.; career devoted to aviation and later to space medicine, and in particular to weightlessness and its effects on living organisms; Lecturer Aeromedical Acad. Berlin 1941, Buenos Aires Nat. Inst. of Aviation Medicine 1947; joined staff of U.S.Air Force Aeromedical Field Laboratory, Holloman Air Force Base, N.M. 1956, Scientific Dir. Oct. 1958-64; Chief Scientist 1964-70; Dir. of Research Aerospace Medical Research Dept., Naval Air Devt. Center 1970-; Prof. of Human Physiology, New Mexico State Univ. 1959-70; mem. Armed Forces/Nat. Research Council Cttee. on Bio-Astronautics 1958-61; mem. Space Medicine Cttee. of Int. Astronautical Fed. 1961-, Int. Acad. of Astronautics; hon. mem. German Rocket Soc., Medical Assen. of Armed Forces of Argentina, Portuguese Centre of Astronautical Studies, Spanish Soc. of Aerospace Medicine, Austrian Astronautical Soc.; Fellow, British Interplanetary Soc., Aerospace Medical Assen. (Pres. Space Medicine Branch 1978-79); Assoc. Fellow, American Inst. of Aeronautics and Astronautics; Senior mem. American Rocket Soc. (Pres. Holloman Section 1959-61); mem. Int. Acad. of Aviation Medicine; Arnold D. Tuttle Award of the Aerospace Medical Assen. 1972, Melbourne W. Boynton Award of the American Astronautical Soc. 1972, Hermann Oberth Honor Ring, Hermann Oberth Soc. 1975, Hubertus Strughold Award of Aerospace Medical Assen. 1976, Jeffries Medical Research Award of American Inst. of Aeronautics and Astronautics 1977. *Publications:* Fisiología del Vuelo 1955, Basic Principles of Aerospace Medicine 1960; numerous papers in Journal of Aviation Medicine and Journal of the British Interplanetary Society and other aeronautical and aeromedical journals in U.S.A., Great Britain, Germany, Argentina and Spain. *Leisure interests:* French and Spanish literature, flying. *Address:* P.O. Box 1220, Warminster, Pa. 18974, U.S.A. *Telephone:* (215) 672-9000, Ext. 2189.

VON DOHNÁNYI, Christoph; German musician; b. 8 Sept. 1929, Berlin; m.; two s. three d.; abandoned legal training to study music 1948; studied in U.S.A. under grandfather, Ernst von Dohnányi 1951; chorus master and leader under Georg Solti, Frankfurt 1952; Gen. Music Dir. Lübeck 1957-63, Kassel 1963-66, conductor of Cologne Broadcasting Symphony Orchestra 1964-69, Gen. Music Dir. and Opera Dir., Frankfurt 1968-77, Dir. and Gen. Music Dir., Hamburg State Opera 1977-; Guest Conductor at Munich Festivals, Vienna Festivals, Salzburg Festivals, Metropolitan Opera (New York), San Francisco Opera, Vienna, London, Berlin, Chicago. *Address:* Hamburgische Staatsoper, Gr. Theaterstrasse 34, 2 Hamburg 36, Federal Republic of Germany. *Telephone:* 35-11-51.

VON EULER, Ulf Svante, M.D.; Swedish professor; b. 7 Feb. 1905, Stockholm; s. of Prof. Hans von Euler and Prof. Astrid (Cleve) von Euler; m. 1st Jane Sodenstierna 1930, 2nd Dagmar Cronstedt 1958; two s. two d.; ed. School of Medicine, Stockholm; Prof. of Physiology, Karolinska Inst., Stockholm 1939-71; mem. Medical Research Council of Sweden 1955-61; Nobel Cttee. for Physiology and Medicine 1953-65; Pres. Nobel Foundation 1965-75; Foreign mem. Royal Soc. 1973; Foreign Assoc. Nat. Acad. of Sciences, Washington 1972; Nobel Prize for Medicine 1970; Dr. h.c. (Rio de Janeiro, Umeå, Dijon, Ghent, Tübingen, Buenos Aires, Edinburgh, Madrid, Manchester). *Publications:* Noradrenaline 1956, Prostaglandins 1968, and many medical papers. *Address:* Sturegatan 14, Stockholm, 11436 Sweden. *Telephone:* 08-63-65-59.

VON HIRSCHBERG, C. F. G.; South African diplomatist; b. 13 Jan. 1926, Jamestown; m. Mary Wadley 1949; two s. one d.; ed. Univ. of Cape Town; entered foreign service 1948; served in London 1952-57, Vienna 1957-62; served in Dept. of Foreign Affairs, Pretoria 1962-67, Head UN and Int. Orgs. Div 1966-67; mem. South African Del. to gen. confs. of IAEA 1957-61, alt. Gov. 1957-62; Del. to UN Gen. Assembly 1967-74; Minister to Perm. Mission to UN 1968-70; Amb. Extraordinary and Plenipotentiary and Perm. Rep. to UN 1970-74; Consul-Gen., Tokyo 1975-78; Deputy Sec. Dept. of Foreign Affairs, Pretoria 1979-. *Leisure interests:* golf, tennis, boating. *Address:* c/o Department of Foreign Affairs, Union Buildings, Pretoria, South Africa.

VON KUENHEIM, Eberhard; German motor executive; b. 2 Oct. 1928, Juditten, Kreis Bartenstein; ed. Höhere Schule, Salem and Technische Hochschule, Stuttgart; Chair., Man. Board, Bayerische Motorenwerke (BMW) A.G., Munich Jan. 1970-. *Leisure interests:* sciences, hockey, walking, books on politics and modern history. *Address:* Bayerische Motorenwerke A.G., 8000 Munich 81, Mauerkirchenstrasse 105, Federal Republic of Germany. *Telephone:* 38952500 (Office); 480032 (Home).

VON PLEHWE, Friedrich-Karl, C.V.O.; German civil servant and diplomatist; b. 25 April 1912, Langfuhr; s. of the late Gen. Gustav von Plehwe and Dorothea von Reichel; m. 1st Anneliese Nette 1936 (died 1962), 2nd Helga Dahm 1964; two s. one d.; ed. Classics School, Königsberg, Univ. of Göttingen; Cavalry Staff Officer, Asst. Mil. Attaché, regular army 1930-45; joined Ferrostaal AG, Frankfurt and Hamburg 1949-51; mem. Secr. for German Del., Paris 1952-55, Sec.-Gen. Status of Forces Conference, Bonn 1955-57, Counsellor Perm. Del. to NATO, Paris 1957-60, Minister-Counsellor 1960-62, Political Dept. Ministry Foreign Affairs, Bonn 1962-67, Deputy Sec.-Gen. WEU, London 1967-, Acting Sec.-Gen. 1974-77. *Publications:* Schicksalsstunden in Rom 1967 (publ. in English as The End of the Alliance 1971), Internationale Organisationen und die moderne Diplomatie 1972, Reiter, Streiter und Rebell 1976. *Leisure interests:* riding, golf, stalking. *Address:* Western European Union, 9 Grosvenor Place, London, SW1X 7HL, England. *Telephone:* 01-235 5351.

VON PUTTKAMER, Jesco Karl Eugen; German journalist and diplomatist; b. 20 Feb. 1919, Neustrelitz; s. of Jesco and Rosemarie von Puttkamer (née von Arnim); m. Marianne von Kessel 1924; four d.; ed. High School, Military Academy; joined army 1937, prisoner of war 1943-47; Ed. Kurier, Berlin 1947-49; Ed. and Man. Political Section Neue Zeitung, Berlin 1949-54; Political Commentator Süddeutsche Zeitung, Munich 1954-58; Chief Ed. SPD journal Vorwärts, Bonn 1958-71; Amb. to Israel 1971-75, to Yugoslavia 1975-79, to Portugal 1979-; Distinguished Service Cross (First Class) 1970; war decorations. *Publications:* Irrtum und Schuld—Die Geschichte des Nationalkomitee Freies Deutschland 1948, Co-author (with H. H. Kirst) Keiner kommt davon, (novel) 1957. *Address:* Embassy of the Federal Republic of Germany, Caixa Postal 1046, Campo dos Martires da Patria 38, Lisbon, Portugal.

VON STADEN, Berndt; German diplomatist; b. 24 June 1919, Rostock; s. of Richard von Staden and Camilla von Voigt; m. Wendelgard von Neurath 1961; three c.; ed. Bonn Univ., Hamburg Univ.; Mil. service 1940-45; studied law, Hamburg Univ. 1946-48; Junior Barrister 1948-51; worked for Foreign Ministry 1951-; Third Sec., Embassy, Brussels 1953-55; Dir. Desk of Soviet Affairs, Foreign Office, Bonn 1955-58; Staff mem. EEC Comm., Brussels, Head of Office of Pres. of Comm. 1958-63; Counsellor, First Class, Embassy, Washington 1963-68; Deputy Asst. State Sec., Foreign Office 1968-70, Asst. State Sec., Head of Political Dept. 1970-73; Amb. to U.S.A. April 1973-; Order of Merit (Fed. Repub. of Germany). *Leisure interests:* music, horseback riding. *Address:* Embassy of the Federal Republic of Germany, 4645 Reservoir Road, N.W., Washington, D.C. 20007, U.S.A.

VON WECHMAR, Rudiger Freiherr; German journalist and diplomatist; b. 1923, Berlin; with German News Service (DPD); joined United Press 1948, Head of Bonn Bureau 1954-58; Press Attaché, German Consulate-Gen., N.Y. 1958; Head of E. European Bureau, Zweites Deutsches Fernsehen, Vienna 1963; Dir. German Information Center, N.Y. 1968; Deputy Head of Govt. Press and Information Office 1969, State Sec., Head of Govt. Press and Information Office, Chief Govt. Spokesman 1972-74; Perm. Rep. to UN July 1974-. *Address:* Permanent Mission of Federal Republic of Germany to the United Nations, 600 Third Avenue, New York, N.Y. 10016, U.S.A.

VONDELING, Dr. Anne; Netherlands politician; b. 2 March 1916, Appelscha; two s. one d.; ed. Agricultural Univ., Wageningen; agricultural expert with the Prov. Authorities of Friesland 1940-45; Dir. of an accountancy bureau, adviser on taxes 1945-58; mem. States-Gen. (Parl.) 1946-58, 1959-65, 1967-, Chair. 1969-; Minister of Agric. 1958; Deputy Prime Minister and Minister of Finance 1965-66; Chair. Second Chamber of States-Gen. 1972-; fmr. Prof. of Int. Econ. Orgs., Univ. of Groningen; Chair. Dutch Labour Party. *Leisure interests:* poetry, sport. *Address:* Europaplein, Leeuwarden, The Netherlands. *Telephone:* 070-614911.

VONNEGUT, Kurt, Jr.; American author; b. 11 Nov. 1922; ed. Cornell Univ., Carnegie Inst. of Technology and Univ. of Chicago; served with U.S. Army as Infantry Combat Scout, World War II; prisoner of war Dresden 1945; police reporter, Chicago City News Bureau 1945-47; public relations officer, G.E.C. Schenectady 1947-50; contrib. Saturday Evening Post, Collier's, Galaxy, etc. *Publications:* novels: Player Piano 1952, The Sirens of Titan 1959, Mother Night 1961, Cat's Cradle 1963, God Bless you, Mr. Rosewater 1965, Slaughterhouse-Five 1969, Happy Birthday, Wanda Jane (play) 1971, Between Time and Timbuktu 1972, Breakfast of Champions 1973, Wampeters, Foma and Granfalloons 1974, Slapstick 1976; short stories: Welcome to the Monkey House 1968. *Address:* Scudder's Lane, West Barnstable, Mass. 02668, U.S.A.

VONSOVSKIY, Sergey Vasiliyevich; Soviet physicist; b. 2 Sept. 1910, Tashkent; ed. Leningrad State Univ; Engineer, Chief Engineer, Ural Physical-Tech. Inst. 1932-39; Junior Scientific Worker, Senior Scientific Worker, Inst. for Investigation of Metals, for Metallophysics and Metallurgy, Urals Branch of U.S.S.R. Acad. of Sciences 1939-47; Chief Dept., Deputy Dir. Inst. of Physics of Metals, Urals Branch of U.S.S.R. Acad. of Sciences 1947-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-66, mem. 1966-; Chair. Presidium Urals Scientific Centre, U.S.S.R. Acad. of Sciences 1971-; Foreign mem. Acad. of Science of G.D.R. 1971-, Poland 1977-; Hero of Socialist Labour 1969, Order of Lenin, etc. *Address:* Urals Scientific Centre of the U.S.S.R. Academy of Sciences, Ulitsa Pervomaiskaya 91, Sverdlovsk-Oblastnoi, U.S.S.R.

VORONOV, Avenir Arkadyevich, D.SC.; Soviet automation specialist; b. 28 Nov. 1910, Lomonosov, St. Petersburg (now Leningrad) Region; s. of Arkadiy Vasilyevich Voronov and Vera Dmitriyevna Bystrova; m. Nina Petrovana Aleksandrova 1938; one s. [redacted] d.; ed. Leningrad Polytechnic Inst.; Engineer, Gorky electrical power plant 1938-39; army service 1939-46; mem. CPSU 1943-; Lecturer Moscow Bauman Higher School 1946-48; Research Assoc., Inst. of Automation and Telemechanics, U.S.S.R. Acad. of Sciences 1948-55; Lecturer, Moscow Power Inst. 1948-55; Head of Lab., Vice-Dir. Inst. of Electromechanics 1955-64, Inst. of Control Problems 1964-70; Lecturer, Leningrad Polytech. Inst. 1955-64, Moscow Inst. of Radioeng., Electronics and Automation 1964-70; Deputy Chair. Presidium, Far Eastern Scientific Centre, U.S.S.R. Acad. of Sciences 1971-; Dir. Inst. of Automation and Control Processes 1971-; Academician, U.S.S.R. Acad. of Sciences 1970-. *Publications:* (in Russian) The Elements of Automatic Regulation Theory 1950, Digital Analogues for Automatic Control Systems 1960, Fundamentals of Automatic Control Theory Part I 1965, Part II 1966, Part III 1970, Operations Research and Control 1970. *Address:* Far Eastern Scientific Centre, U.S.S.R. Academy of Sciences, 50 Leninskaya St., 2 Vladivostock, U.S.S.R. *Telephone:* 2-31-98.

VOROPAYEV, Mikhail Gavrilovich; Soviet politician; b. 1919; ed. Rostov-on-Don Inst. of Railway Engineering; mem. CPSU 1945; Sec. of Young Communist League (YCL) cttee. at Locomotive depot, Sec. of YCL city cttee. and raion cttee., Chelyabinsk; Second Sec. Chelyabinsk region cttee. CPSU 1944-49, 1960-63, First Sec. 1970-; Engineer at metallurgical enterprises in Chelyabinsk, Sec. of Chelyabinsk raion cttee. CPSU 1949-60; First Sec. Chelyabinsk city cttee.; Deputy to Supreme Soviet U.S.S.R. 1966-; mem. Cen. Cttee. CPSU 1971-; various decorations. *Address:* Chelyabinsk Region Committee of the CPSU, Chelyabinsk, U.S.S.R.

VOROZHTSOV, Nikolay Nikolayevich; Soviet chemist; b. 6 June 1907, Tomsk; ed. Bauman Higher Technical School, Moscow; mem. Staff U.S.S.R. Comm. for Investigation of Natural Resources 1928-30; Scientific Worker State Inst. of High Pressures 1930-38; mem. CPSU 1942-; Chief Dept. Kazakh State Univ. 1938-43; Scientific Supervisor, Research Inst. for Organic By-products and Dyestuffs 1943-47; Chief Dept. Mendeleev Chemical-Tech. Inst. Moscow 1945-58; Dir. Novosibirsk Inst. of Organic Chem. of Siberian Dept. of U.S.S.R. Acad. of Sciences 1958-; Corresp. mem. U.S.S.R. Acad. of Sciences 1958-66, mem. 1966-; State Prize 1952, Order of Lenin and other decorations. *Publications:* Works on technology of organic dyestuffs and intermediate products. *Address:* Akademgorodok, Prospekt Nauki 17, Novosibirsk, U.S.S.R.

VORRINK, Irene; Netherlands lawyer and politician; b. 7 Jan. 1918, The Hague; mem Legal Staff, Industrial Insurance Admin. Office, Amsterdam; Clerk of Social Insurance Appeals Board, Utrecht 1961-63; Clerk of Social Insurance Appeals Board, Amsterdam 1965-69, Vice-Chair., and Vice-Pres. of Civil Service Appeals Board 1969-73; mem. First Chamber of States Gen. 1969-; Minister of Health and the Environment 1973-77. *Address:* c/o Ministry of Health and the Environment, The Hague, Netherlands.

VORSTER, Balthazar Johannes, B.A., LL.B.; South African lawyer and politician; b. 13 Dec. 1915, Jamestown, Cape Province; s. of W. C. and E. S. Vorster; m. Martini Malan 1941; two s. one d.; ed. Sterkstroom High School and Stellenbosch Univ.; M.P. for Nigel 1953-78; Deputy Minister of Educ., Arts and Science and of Social Welfare and Pensions 1958-61; Minister of Justice 1961-66; Minister of Justice, Police and Prisons 1966; Prime Minister 1966-78; Leader National Party 1966-78; President of South Africa 1978-79; Chancellor Univ. of Stellenbosch 1968-. *Address:* Oubostrand, c/o P.O. Humansdorp, Cape 6300, South Africa.

VOSS, August Eduardovich; Soviet politician; b. 30 Oct. 1916, Saltykovo, Omsk Region; ed. Teacher-Training Inst., CPSU Higher Party School and CPSU Acad. of Social Sciences; Soviet Army service 1940-45; Party Official in Latvia 1945-49; Head of Dept. of Science and Culture, Cen. Cttee. CP of Latvia 1953-54; Party Official at Cen. Cttee., CP of Latvia 1954-60; Sec. Cen. Cttee., CP of Latvia 1960-66, First Sec. 1966-; Deputy to U.S.S.R. Supreme Soviet 1966-; Chair. Comm. for Public Educ., Science and Culture, Soviet of Union, and Latvian Supreme Soviet; mem. CPSU Cen. Cttee. 1971-, Order of Lenin and other decorations. *Address:* Central Committee, Communist Party of Latvia, Riga, U.S.S.R.

VOUEL, Raymond; Luxembourg politician and international official; b. 1923; m.; three c.; began career [redacted] journalist on Tageblatt socialist daily newspaper; Admin. Dir. Esch Hospital 1954-64; Town Councillor, Esch 1963, Chair. Buildings Cttee.; mem. Chamber of Deputies 1964-76; State Sec. for Public Health, for Employment, for Social Security and for the Mining Industry 1964-69; Chair. Parl. Socialist Group 1970-74; Gen. Sec. Parti Ouvrier Socialiste Luxembourgeois (Socialist Party) 1970; Deputy Prime Minister, Minister for Finance and Land Devt. 1974-76; mem. Comm. of European Communities with responsibility for Competition, Personnel and Admin. 1976, for Competition Policy Jan. 1977-. *Address:* Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium.

VOZNESSENSKY, Andrey Andreyevich; Soviet poet; b. 12 May 1933, Moscow; ed. Moscow Architectural Inst.; mem. Union of Soviet Writers, mem. Board 1967-; Hon. mem. American Acad. of Arts and Letters 1972; State Prize 1978. *Publications:* poems: The Masters 1959, Forty Lyrical Digressions from a Triangular Pear 1962, Longjumeau 1964, Anti-worlds 1964; collections: Parabola 1960, Mosaic 1960, They Tell Me I'm [redacted] Formalist 1963, Oza 1964, Heart of Achilles 1966, Verses 1967, The Shadow of a Sound 1970, A Look 1972, Little Woods 1972, The Master of Stained Glass 1978. *Address:* U.S.S.R. Union of Writers, Ulitsa Vorovskogo 52, Moscow, U.S.S.R.

VRATUŠA, Dr. Anton; Yugoslav diplomatist and politician; b. 21 Feb. 1915, Doljnja Slaveča; ed. Univ. of Ljubljana; Col. in Yugoslav People's Army 1941-45; various appointments in Ministry of Foreign Affairs and Fed. Exec. Council 1945-; mem. Fed. Assembly 1965-; mem. numerous dels. to UN; Pres. Yugoslav Nat. Comm. for UNESCO; Dir. Inst. for Social Sciences; Perm. Rep. to UN 1967-69; Prof. of Political Sciences, Belgrade Univ. 1969-, Ljubljana Univ. 1975-; Deputy Minister of Foreign Affairs 1969-71; Vice-Pres. Fed. Exec. Council 1971-78; Pres. Fed. Council for Socio-Political System 1973-78; Pres. Exec. Council, S.R. of Slovenia May 1978-; Pres. Council, Int. Center for Public Enterprises in Developing Countries Oct. 1978-; Corresp. mem. Slovenian Acad. of Science and Arts 1978. *Publications:* numerous works on self-management

system in Yugoslavia and international relations. *Address:* c/o Executive Council of the Assembly of the Socialist Republic of Slovenia, Ljubljana, Yugoslavia. *Telephone:* 061-23200.

VREDELING, Henk; Netherlands politician; b. 20 Nov. 1924; ed. Agricultural Univ., Wageningen; mem. Second Chamber of States-Gen. (Parl.) 1956-; mem. European Comm.; Socio-econ. Adviser to Agricultural Workers' Union; Minister of Defence 1973-76; Commr. for Employment and Social Affairs and for Tripartite Conf. Comm. of European Communities 1977-. *Address:* Commission of the European Communities, 200 rue de la Loi, Brussels, Belgium.

VREDENBURGH, Dorothy McElroy (*see* Bush, Dorothy McElroy Vredenburgh.)

VRETHEM, Åke Torulf; Swedish engineer and businessman; b. 25 March 1912, Vretakloster; s. of Simon and Antina (Johansson) Vrethem; m. Brita Maria Sjögren 1940; four s. one d.; ed. Royal Inst. of Technology; joined State Power Board 1934, Chief Engineer 1944-48; Asst. Man. Dir. ASEA 1948, Man. Dir. 1949-61, Chief Exec. Dir. ASEA Group 1961-75, Chair. 1976-; Dir. Fed. of Swedish Industries 1953-73; Gen. Export Assen. of Sweden 1954-72; Chair. Swedish Assen. of Electrical Industries 1967-72; mem. Council Int. Chamber of Commerce 1957-; Internal Counsellor. The Conf. Board (U.S.A.) 1961-; Pres. of Swedish Council of the European Movement 1961-72; Pres. Swedish Standards Assen. 1962-73; Pres. Int. Org. for Standardization (ISO), Geneva 1974-76; Knight Order of the North Star, Commdr. (First Class) Order of Vasa; Hon. D.Tech. (Chalmers Inst. of Tech., Gothenburg) 1960, Hon. D.Sc. (Cranfield Inst. of Tech.) 1974. *Address:* Strandvägen 31A, S-18262 Djursholm, Sweden.

VRIES, Egbert de, DR. AGR.; Netherlands economist; b. 29 Jan. 1901, Grypskerke; s. of Jan de Vries and Johanna Willemina Luuring; m. 1st Tine Berg 1924 (died 1945), 2nd Alexandrine Duvekot 1947; five s. two d.; ed. Univ. of Wageningen; Govt. service in Netherlands E. Indies 1924-41; Head of Div. for Gen. Econ. Affairs in Dept. of Econ. Affairs 1938-41; Prof. of Agricultural Econs. and Dean of Agricultural Faculty, Univ. of Batavia 1941-46; returned to Netherlands 1946; Prof. of Tropical Agricultural Econs., Univ. of Wageningen, and adviser to Netherlands Ministry of Overseas Affairs 1947-50; Chief of Econ. Resources Div. of Econ. Dept. of IBRD 1950-52; Chief of Econ. Div. of Tech. Operations Dept. 1952-53, Agricultural Div. 1953-56; Chair. Working Cttee. of Dept. of Studies, Div. Church and Soc., World Council of Churches 1954-61; mem. of Cttee. on Devt. Countries, World Council of Churches 1962; Rector Inst. of Social Studies, The Hague 1956-66; Dir. Netherlands Univs. Foundation for Int. Co-operation 1956-66; Chair. Nat. Org. for Int. Aid 1956-61, Vice-Chair. 1961-66; Prof. of Int. Devt., Univ. of Pittsburgh 1966-73; Fellow, Inst. of Social Studies 1966; Vice-Chair. Board of Council for Study of Mankind 1968-70., mem. 1970-78; partner with D.C. Stone in consultancy on econ. and public admin. 1973-; Trustee Obor Foundation 1971-, Chair. Board of Trustees 1975-; Trustee Interfuture 1971-; Knight, Order of Netherlands Lion 1950; Commdr. Order of Orange-Nassau 1966; Prof. Emer. Public and Int. Affairs, Univ. of Pittsburgh 1973. *Leisure interests:* gardening, stamps. *Address:* Deerlake Park, Chalkhill, Pa. 15421, U.S.A. *Telephone:* 412-438-4776.

VRIGNY, Roger, L. ès L.; French writer; b. 19 May 1920; ed. Collège oratorien de Rocroy-Saint-Léon Paris, Lycée Condorcet, Paris, and Univ. of Paris; Prof. of Literature, Collège Rocroy-Saint-Léon; founder of Le Miroir Theatre Co. 1950; broadcaster and radio producer; Prix Femina 1963. *Publications:* novels: Arban, Lauréna, Barbegal, La nuit de Mougins, Fin de journée, Le serment d'Amboise (Prix Femina), La vie brève 1972, Pourquoi cette joie? 1974; farce: Marute; sketches: L'Enlèvement d'Arabelle, L'Impromptu du réverbère; comedy: Les irascibles; mystery: La dame d'Onfrède. *Address:* 4 rue Jean-Ferrandi, 75016 Paris, France (Home).

VU VAN MAU, LL.B., LL.D.; Vietnamese lawyer, diplomatist and politician; b. 25 July 1914; ed. Univ. of Hanoi and Univ. of Paris; Lawyer, Hanoi 1949; Dean, Faculty of Law, Univ. of Saigon 1955-58, Prof. of Law 1965; First Pres. Vietnamese Supreme Court of Appeal 1955; Minister of Foreign Affairs 1955; Sec. of State for Foreign Affairs 1956-63 (resgnd.); Pres. Vietnamese Nat. Assen. of Comparative Law; Amb. to U.K., Belgium and Netherlands 1964-65; Senator 1970-75; Prime Minister 1928-30 April 1975; detained April-Nov. 1975. *Publications:* Legal Works in French and Vietnamese. *Address:* 132 Suong Nguyet Anh, Ho Chi Minh City, Vietnam.

VUL, Benzion Moiseyevich; Soviet physicist; b. 22 May 1903, Belaya Tserkov, Kiev; s. of Moisey and Basia Vul; m. Sofia Frenkel 1927; one d.; ed. Electrotechnical Faculty of Polytechnic Inst., Kiev, Physical-Technical Inst., Leningrad; Red Army volunteer 1920-21; at Physical Inst. of U.S.S.R. Acad. of Sciences 1933-, founded Lab. of Physics of Dielectrics 1933 (reorganized ■ Lab. of Physics of Semiconductors 1950), now Chair.; mem. Editorial Board of Soviet Encyclopaedia 1951; Chair. Scientific Council of Physics and Chem. of Semiconductors 1960-; Vice-Pres. IUPAP 1972-78; Lenin Prize 1964, U.S.S.R. State Prize 1946, Hero of Socialist Labour 1969, Order of Lenin (five times) and other decorations. *Publications:* Edge Dielectric Breakdown 1931, Progressive Breakdown in Solid Dielectrics 1932, Electrical Breakdown in Compressed Gases 1940, Dielectric Constant of Titanates 1945, Capacitance of P-N Junctions 1954; papers in Proceedings of the International Conference on Physics of Semiconductors 1958, 1960, 1962, 1964, 1966, 1968, 1972, 1974, 1976, 1978. *Leisure interests:* philosophy, skiing, swimming. *Address:* P.N. Lebedev Physical Institute, Academy of Sciences of the U.S.S.R., Leninski Prospect 53, Moscow 1352320, U.S.S.R.

VUNIBOBO, Berenado, C.B.E., B. AGR. SC.; Fijian agronomist and government official; b. 24 Sept. 1932, Nukutubu, Rewa; s. of Mateo Vunibobo and Maria Kelekeletabua; m. Luisa Marama Tabumoce 1953; two s. three d.; ed. St. Joseph's Catholic Mission School, Rewa, Marist Brothers High School, Suva, Queensland State Agric. Coll., Queensland Univ. Imperial Coll. of Tropical Agric., Trinidad; Govt. Service 1951-, District Agric. Officer 1962-67, Senior Agric. Officer and later Chief Agric. Officer 1968-69; Deputy Dir. of Agric. 1969-70, Dir. of Agric. 1970-71; Perm. Sec. for Agric., Fisheries and Forests 1971-72, for Works 1973-76; Perm. Rep. to UN, Amb. to U.S.A., High Commr. in Canada Aug. 1976-; Chair. UN Visiting Mission to Cayman Islands and U.S. Virgin Islands 1978; Chair. Coconut Pests and Diseases Board, Banana Marketing Board, Nat. Marketing Authority 1970-72; mem. Board, Fiji Devt. Bank 1970-72; mem. Native Lands Trust Board 1968-75, Fijian Affairs Board 1968-76, Great Council of Chiefs 1968-76, Central Whitley Council 1970-76, Joint Industrial Council 1970-76, Fiji Electricity Authority 1975-76. *Leisure interests:* reading, debating, walking, gardening. *Address:* Permanent Mission of Fiji to the United Nations, One United Nations Plaza, 26th Floor, New York, N.Y. 10017; Residence: 1155 Park Avenue, N.W., Apartment 7, New York, N.Y. 10028, U.S.A. *Telephone:* (212) 355-7316 (Office).

VUONG VAN BAC; Vietnamese diplomatist; b. 1927, Bac Ninh, N. Viet-Nam; ed. Hanoi Univ., Michigan State Univ., Vanderbilt Univ., U.S.A.; admitted to Hanoi Bar Assen. 1952, Saigon Bar Assen. 1954; Prof. of Constitutional and Political Science, Nat. Inst. of Admin. 1955; Chair. Dalat Univ. 1965; Sec.-Gen. Viet-Nam Lawyers' Fed. 1961; mem. Council of Lawyers, Saigon High Court 1962-68, Board of Dirs. Viet-Nam Council on Foreign Relations 1968; Legal Adviser to Repub. of Viet-Nam Liaison and Observation Del. at Paris talks 1968; Amb. to U.K. 1972-73; Minister of Foreign Affairs 1973-75; has attended numerous int. confs. on legal and econ. affairs.

W

WÄCHTER, Eberhard; Austrian opera-singer; b. 8 July 1929, Vienna; m. 1954; three s. three d.; studied with Elisabeth Rado, Vienna; début with Volksoper, Vienna; mem. State Opera, Vienna 1955-; has sung in Germany, France, Holland, England, Spain, U.S.A. and Italy, Bayreuth Festival, Salzburg Festival, etc. *Address:* Vienna XIX, 46 Felix-Mottlstrasse, Austria. *Telephone:* 3417-212.

WACHTMEISTER, Count Wilhelm Hans Frederik; Swedish diplomatist; b. 29 April 1923, Wanås; s. of Count Gustaf Wachtmeister and Countess Margaretha Wachtmeister (née Trolle); m. Countess Ulla Wachtmeister (née Leuhusen); one s. two d.; ed. Stockholm Univ.; Attaché, Foreign Office 1946-47, Embassy in Vienna 1947-49, in Madrid Feb.-May 1949, in Lisbon 1949-50, Foreign Office 1950-52; Second Sec. Foreign Office 1952-55; Second Sec. Embassy in Moscow 1955-56, First Sec. 1956-58; Special Asst. to Sec.-Gen. of UN 1958-62; Head of Div. for UN Affairs, Foreign Office 1962-63, Head of Div. 1963-65, Head of Dept. July-Oct. 1965, Asst. Under-Sec. of State 1965-66; Amb. to Algeria 1966-68; Deputy Under-Sec. of State and Head of Political Div. 1968-74; Amb. to U.S.A. June 1974-; Hon. LL.D. *Address:* Royal Swedish Embassy, 600 New Hampshire Avenue, N.W., Washington, D.C. 20037; 3900 Nebraska Avenue, N.W., Washington, D.C. 20016, U.S.A. (Residence). *Telephone:* (202) 362-3270 (Residence).

WACKER, Alfred, LL.B.; Swiss lawyer and diplomatist; b. 8 Jan. 1918, Zürich; s. of Paul Wacker; m. Chantal Thormann 1950; one s. two d.; ed. Universität Bern; Swiss Foreign Office 1945-50, 1958-60; at Embassy, German Fed. Repub. 1950-55, Budapest 1955-57; Counsellor, Mexico 1961-64; Deputy Head, Swiss Mission to European Communities 1964-66; Deputy Sec.-Gen. EFTA 1966-73; Amb., Perm. Rep. to Council of Europe 1973-. *Address:* 7 rue Schiller, 67000 Strasbourg, France. *Telephone:* 35-15-17.

WADATI, Kiyoo; Japanese meteorologist; b. 8 Sept. 1902, Nagoya; s. of Yotaro and Kin Wadati; m. Kuniko Wadachi 1928; three s. four d.; ed. Tokyo Univ.; entered Meteorological Observatory; has conducted research into earthquakes, tidal waves etc.; Dir.-Gen. Japan Meteorological Agency 1956-63; fmr. Pres. Science Council of Japan; Pres. Saitama Univ. 1966-74; Pres. Japan Acad. 1974-. *Publications:* Earthquakes, Kisyo No Jiten (Encyclopaedia of Meteorology), Kaiyo No Jiten (Encyclopaedia of Oceanography). *Address:* Japan Academy, 7-32, Ueno Park, Taito-ku, Tokyo 110 (Office); 1-8 Naitomachi, Shinjiku-ku, Tokyo, Japan (Home). *Telephone:* 03-341-3503.

WADE, Robert Hunter, M.A.; New Zealand diplomatist (retd.); b. 14 June 1916, Balclutha; s. of R. H. Wade; m. Avelda Grace Petersen 1941; two s. two d.; ed. Waitaki School, Otago Univ., Victoria Univ.; N.Z. Treasury 1939; Eastern Group Supply Council, Delhi 1941; N.Z. Govt. Offices, Sydney 1943; N.Z. High Comm. Canberra 1947; Head, Eastern Political Div., Wellington 1949; N.Z. Embassy, Wash. 1951; N.Z. High Comm., Ottawa 1956; Dir. Colombo Plan Bureau, Colombo 1957; Dir. External Aid, Wellington 1959; N.Z. Commr. in Singapore and Borneo 1962; High Commr. to Malaysia 1963; Deputy High Commr., London 1967; N.Z. Amb. to Japan and Repub. of Korea 1969; Commonwealth Deputy Sec.-Gen., Commonwealth Secr., London 1972-74; Amb. to Fed. Repub. of Germany and Switzerland 1975-78. *Address:* c/o Ministry of Foreign Affairs, Wellington, New Zealand.

WADIA, Sophia; Indian editor; b. 13 Sept. 1901, Bogotá, Colombia; m. Bahman P. Wadia 1928; ed. Lycée Molière, Paris, Columbia Univ., New York, School of Oriental and African Studies, London; Lecturer; founder-organizer PEN All-India Centre; Pres. Indian Inst. of World Culture, Bangalore, Balkan-Ji-Bari, Asian Book Trust; Vice-Pres. Bombay City Council for Child Welfare, All-India Animal Welfare Assen.; assoc. United Lodge of Theosophists; Editor Aryan Path 1929- and The Indian PEN Bombay 1934-; also worker in women's social, educational and cultural movements. *Publications:* The Brotherhood of Religions, Preparation for Citizenship. *Leisure interests:* philosophy, literature, music. *Address:* Theosophy Hall, 40 New Marine Lines, Bombay 400-020, India. *Telephone:* 292173.

WADSWORTH, Jeffery Page Rein; Canadian banker; b. 27 July 1911, Toronto; s. of William Rein and Mildred (Jeffery) Wadsworth; m. Elizabeth C. Bunting 1940; one d.; ed. Lakefield College School and Upper Canada College; joined the Canadian Bank of Commerce 1928, Gen. Man. 1956, Dir. and Vice-Pres. 1957, Vice-Pres. and Gen. Man. Canadian Imperial Bank of Commerce 1961, Pres. 1963, Vice-Chair. 1964, Deputy Chair. 1970, Pres., Deputy Chair. and Chief Exec. Officer 1971, Chair. and Chief Exec. Officer 1973-76, now Dir.; Dir. Confederation Life Insurance Co. 1961-, Chair. and Vice-Pres. of the Board 1968-; Dir. F. W. Woolworth Co. Ltd., Campbell Soup Co., Holt, Renfrew and Co. Ltd., MacMillan Bloedel Ltd., Massey Ferguson Ltd., Pilot Insurance Co.; Hon. Chair. Board of Govs. Lakefield Coll. School; Chair. Board of Govs. Univ. of Waterloo. *Leisure interests:* golf, skiing, sailing, fishing. *Address:* 7 Austin Terrace, Apt. 4, Toronto, Ont., Canada.

WAGENHÖFER, Carl Friedrich; German banker; b. 24 Feb. 1910, Nuremberg; s. of Karl Wagenhöfer and Johanna Bauer; m. Gretl Hofman 1937; one s. one d.; ed. Univs. of Erlangen, Vienna, Kiel and Munich; Dept. of Finance, Bavaria 1937-39; Army Service 1939-45; Chief of Section for Interministerial and Super-regional Questions, Dept. of Finance, Bavaria 1947-52; Sec. of State, Senate of Free and Hanseatic City of Hamburg 1952-56; Pres. of Landeszentralbank in Bavaria 1956; mem. Central Bank Council of Deutsche Bundesbank 1956. *Publications:* Der Föderalismus und die Notenbankverfassung 1957, Währungspolitik in der Sozialen Marktwirtschaft 1961. *Leisure interests:* literature concerning philosophy, theology and history of art; photography. *Address:* Landeszentralbank, Ludwigstrasse 13, 8 Munich 22; Hermine-Bland-Strasse 1, 8000 München 90, Federal Republic of Germany. *Telephone:* 23700200 (Office); 64 89 64 (Home).

WAGNER, Sir Anthony Richard, K.C.B., K.C.V.O., D.LITT.; British Garter King of Arms; b. 6 Sept. 1908, London; s. of Orlando H. Wagner and Monica Bell; m. Gillian M. M. Graham 1953; two s. one d.; ed. Eton and Balliol Coll., Oxford; Portcullis Pursuivant 1931-43; Richmond Herald 1943-61; War Office 1939-43; Private Sec. to Minister of Town and Country Planning 1944-45; mem. Advisory Cttee. on Historic Buildings 1947-66; Registrar, Coll. of Arms 1953-60; Sec. of Order of the Garter 1952-61; Jt. Registrar of Court of Chivalry 1954-; Garter Principal King of Arms 1961-78, Clarenceaux King of Arms 1978-; Insp. of Regimental Colours of the Order of St. John 1961-77; Knight Principal Imperial Soc. of Knights Bachelor 1962-; Genealogist of the Order of the Bath 1961-72, of the Order of St. John 1961-75; Trustee, Nat. Portrait Gallery 1973-; Chair. of Trustees, Marc Fitch Fund 1971-77; Dir. Heralds' Museum, Tower of London 1978-; Master of Vintners' Co. 1973-74; Hon. Fellow, Heraldry Soc. of Canada 1976; Kt. St. J. *Publications:* Historic Heraldry of Britain 1939, Heralds and Heraldry in the Middle Ages 1939, Heraldry in England 1946, Catalogue of English Mediaeval Rolls of Arms 1950, The Records and Collections of the College of Arms 1952, English Genealogy 1960, English Ancestry 1961, Heralds of England 1967, Pedigree and Progress 1975, Heralds and Ancestors 1978. *Address:* College of Arms, Queen Victoria Street, London, E.C.4 (Office); 68 Chelsea Square, London, S.W.3; Wyndham Cottage, Aldeburgh, Suffolk, England (Homes). *Telephone:* 01-352 0934 (Office); Aldeburgh 2596 (Home).

WAGNER, Aubrey Joseph; American engineer and government official; b. 12 Jan. 1912, Hillsboro, Wis.; s. of Joseph M. and Wilhelmina F. Wagner; m. Dorothea J. Huber 1933; three s. one d.; ed. Univ. of Wisconsin; Tennessee Valley Authority 1934-, successively Junior Hydraulic Engineer, Asst. Hydraulic Engineer, Assoc. Navigation Engineer, Asst. Chief, River Transportation Branch, Act. Chief. later Chief Navigation and Transportation Branch, Asst. Gen. Man. 1951-54, Gen. Man. 1954-61, Dir. 1961-62, Chair. 1962-; mem. Advisory Cttee. UN Conf. on Human Environment 1971-72, Nat. Advisory Council 1974, World Energy Conf. 1971-74, Exec. Cttee. Fed. Energy Admin. 1975-; Vice-Chair. Nat. Div. World Energy Conf. 1976-; mem. Board Dirs. Electric Power Research Inst. 1977-; mem. Nat. Acad. of Eng. 1973; Hon. LL.B. (Newberry Coll.), Hon. degree in Public Admin. (Lenoir Rhyne Coll., N.C.); N. W. Dougherty Award (Univ. of Tenn.) 1969, Lambda Chi Alpha Order of Achievement 1970. *Publications:* Articles in various journals and magazines. *Leisure interests:* fishing, woodworking. *Address:* Tennessee Valley Authority, 403 New Sprankle Building, Knoxville, Tennessee 37902 (Office); 201 Whittington Drive, Knoxville, Tennessee 37919, U.S.A. (Home). *Telephone:* (615) 632-3554 (Office); (615) 693-4779 (Home).

WAGNER, Claude; Canadian politician; b. 4 April 1925; fmr. Asst. Crown Prosecutor; first elected to Quebec Assembly Oct. 1964; Attorney-Gen., Quebec 1964-66; resigned from Quebec Assembly after defeat in elections for Liberal Party leadership 1970; Judge of Sessions Court 1970-72; Leader Quebec Progressive Conservative

Party Oct. 1972-; Conservative Party External Affairs Spokesman Dec. 1972-. *Address:* c/o Headquarters of the Progressive Conservative Party, 178 Queen Street, Ottawa, Ont., Canada.

WAGNER, Gerrit Abram, LL.M.; Netherlands oil executive; b. 21 Oct. 1916, Maassluis; s. of Adrianus and Antonia Jacoba (Vanderhoot) Wagner; one s. three d.; ed. Leiden Univ.; Royal Dutch/Shell Group 1946-77, working in various parts of world; Vice-Pres. Compañia Shell de Venezuela 1959-61, Pres. 1961-64; Man. Dir. N.V. Koninklijke Nederlandsche Petroleum Maatschappij, Shell Petroleum Co. 1964-71, Pres. 1971-77, Chair. Supervisory Board 1977-; mem. Principal Dir. of Shell Petroleum N.V. 1964-77; Dir. Shell Oil Co. 1971-76, Chair. 1972-76; Dir. Shell Canada Ltd. 1971-77; Dir. of numerous Netherlands and int. companies; Order of Francisco de Miranda, Second Class (Venezuela), Knight Order of the Netherlands Lion; Hon. K.B.E. (U.K.) 1977; Officier Légion d'honneur. *Address:* c/o N.V. Koninklijke Nederlandsche Petroleum Maatschappij, 30 Carel van Bylandtlaan, 2596 HR, The Hague, Netherlands. *Telephone:* 070-773748.

WAGNER, Hellmuth, DR. IUR.; German lawyer and industrial official; b. 1917; ed. Staatliches Kaiserin-Augusta-Gymnasium, Berlin, and Münster Univ.; compulsory labour service 1936; apprenticeship in textile industry 1936-38; Military Service 1938-45; legal and political science studies, Münster Univ. 1948-51; Legal Adviser to Gütersloh Town Council 1951-52, Fed. of German Industries 1952-; Managing Dir., Fed. of German Industries 1963-75, mem. Man. Board 1968-; consulting mem. Pres. Board 1975-. *Publications:* articles on business management. *Address:* Bundesverband der Deutschen Industrie, Oberländer Ufer 84-88, 5 Cologne 51, Federal Republic of Germany. *Telephone:* 3708-1.

WAGNER, Philip Marshall; American newspaper columnist and viticulturist; b. 18 Feb. 1904, New Haven, Conn.; m. 1st Helen Crocker 1925, 2nd Jocelyn McDonough 1940; two c.; ed. Kent School and Univ. of Michigan; with General Electric Co. 1925-30; Editorial Writer, Baltimore Evening Sun 1930-36, London Corresp. Baltimore Sun 1936-37, Editor Evening Sun 1938-43, Editor Baltimore Sun 1943-64; writer of syndicated newspaper column on public affairs 1964-; with wife has introduced new grape varieties into American viticulture; American Del. Fédération Nat. de la Viticulture Nouvelle; Officier du Mérite Agricole, France. *Publications:* American Wines and How to Make Them 1933, Wine Grapes and How to Grow Them 1937, The Wine-Grower's Guide 1945, American Wines and Wine Making 1956, H. L. Mencken (American Writers Series) 1966; Edited (with Dr. Stanford V. Larkey) Turner on Wines 1941, Grapes into Wine 1976. *Address:* Boordy Vineyard, Box 38, Riderwood, Md., U.S.A. *Telephone:* (301) 823-4624.

WAGNER, Robert F., B.A., LL.B.; American lawyer and public official; b. 20 April 1910; ed. Yale Univ., Harvard School of Business Administration, School of Int. Relations, Geneva, and Yale Law School; mem. N.Y. State Assembly 1938-41; served U.S.A.F. 1941-45; Tax Commr., New York 1946; Commr. Dept. of Housing and Buildings, New York 1946-47; Chair. New York Planning Comm. 1947-49; Borough Pres. of Manhattan 1950-53; Mayor of New York 1954-65; Partner, Wagner, Quillinan and Tennant 1966-68, 1972-; Amb. to Spain 1968-69; Chair. Nationalities Div., Dem. Nat. Cttee. 1962; Bronze Star, Presidential Unit Citation, Croix de guerre and six battle stars; Hon. LL.D. (Long Island, Fordham and Brooklyn Law School). *Address:* 425 Park Avenue, New York, N.Y. 10022, U.S.A.

WAGNER, Wolfgang Manfred Martin; German festival director; b. 30 Aug. 1919, Bayreuth; s. of Siegfried Wagner and Winifred Williams; brother of late Wieland Wagner; Dir., Bayreuth Festival. *Address:* Festspielhügel 2, 8580 Bayreuth, Federal Republic of Germany. *Telephone:* 20721.

WAHI, Prem Nath, M.D., F.R.C.P.; Indian physician; b. 10 April 1908; ed. K.G. Medical Coll., Lucknow, London Hospital Medical School, London, and New England Deaconess Hospital, Boston, U.S.A.; Prof. of Pathology, S.N. Medical Coll., Agra 1941-; Principal, S.N. Medical Coll., Agra 1960-; Dean, Faculty of Medicine, Agra Univ. 1961-64; Dir. WHO Int. Reference Centre and Cancer Registry 1963-; mem. Expert Panel of WHO on Cancer, Lyon, France 1965-; has attended numerous int. conferences on cancer; Lady Brahamachari Readership, Calcutta Univ. 1965; Fellow, Nat. Inst. of Sciences, India; Founder Fellow, Coll. of Pathologists, London 1963; Founder Fellow, Indian Acad. of Medical Sciences 1964. *Address:* S.N. Medical College, Agra (U.P.), India.

WAHL, Jacques Henri; French government official; b. 18 Jan. 1932, Lille; s. of Abraham Wahl and Simone Kornbluth; m. Inna Cytrin 1969; two s. one d.; ed. Institut d'Etudes Politiques, Paris, Univs. of Lille and Paris, Ecole Nat. d'Administration; Insp. des Finances 1961-65; Treasury Dept. 1965-68; Special Asst. to Ministers of Econ. and Finance, François Ortoli 1968-69, Valéry Giscard d'Estaing 1969-71; Asst. Dir. of the Treasury for Int. Affairs 1971-73; Chair. Invisible Transactions Cttee., OECD 1971-73; Lecturer, Inst. d'Etudes Politiques and Ecole Nat. d'Admin., Paris 1969-73; Financial Minister, French Embassies, U.S.A. and Canada 1973-78; Exec. Dir. IMF, IBRD 1973-78; Asst. Sec.-Gen. to the Presidency 1978-; Chevalier, Ordre national du Mérite, Commdr. Ordre National de Côte d'Ivoire, Officier Ordre du Mérite de la République Centrafricaine, Chevalier Ordre du Mérite de Haute Volta. *Address:* c/o Elysée Palace, Paris, France.

WAHLEN, Friedrich Traugott; Swiss agriculturalist and politician; b. 10 April 1899, Mirchel, Berne; s. of Johann Wahlen and Katharina Stucki; m. Helen Hopf 1923; ed. Swiss Fed. Inst. of Technology, Zürich; Asst. Inst. of Agronomy, Fed. Inst. of Tech., Zürich 1920-22; Supervising Analyst Dominion Seed Lab., Quebec, then Chief Analyst Dominion Dept. of Agric., Ottawa with Canadian Civil Service 1922-29; Dir. Swiss Experiment Station of Agric., Oerlikon, Zürich 1929-43; Prof. of Agronomy, Fed. Inst. of Tech., Zürich 1943-49; Chief of the Section of Agricultural Production and Home Econs. in the Swiss War Food Office and Commr. for Food Production 1938-42 and 1942-45, organizing the Wahlen Plan for assuring Switzerland's food supplies during World War II; mem. Swiss Council of States (Senate) 1942-49; Dir. Agric. Div., FAO, Washington 1949-50, Rome 1951-57; Chief Expanded Tech. Asst. Programme FAO 1950-52; Deputy Dir.-Gen. FAO 1957-58; Fed. Councillor. (Justice and Police) 1959, (Public Economy) 1960-61, (Political Dept.) 1961-65; Pres. Swiss Confed. 1961; Chair. Comm. for Revision of the Swiss Constitution 1967-; mem. Royal Swedish Acad.; Marcel Benoist Prize 1940 etc.; Hon. Dr. of Medicine, Univ. of Zürich 1946; Hon. Dr. of Agricultral Sciences (Univ. of Göttingen, and Laval Univ., Quebec); Hon. Dr. of Law (Univ. of Basel); Hon. Dr. of Tech. Sciences (Swiss Fed. Inst. of Tech.). *Leisure interests:* too many to mention. *Address:* 39 Humboldtstrasse, Berne, Switzerland. *Telephone:* 031-41-23-55.

WAHLGREN, Olof Gustaf Christerson, PH.D.; Swedish newspaper editor; b. 21 Sept. 1927, Stockholm; s. of Christer and Jeanne (Nyblaeus) Wahlgren; m. Ulla Andersson 1955; one s. two d.; Mem. staff Sydsvenska Dagbladet, Malmö 1953-, Deputy Dir. 1963-67, Man. Dir. 1967-78, Chief Ed. 1967-; Man. Dir. Kvällsposten, Malmö 1963-78; mem. Board of Dirs. Sydsvenska Dagbladets AB and Kvällspostens AB 1949-, Chair. 1978-; Pres. S. Sweden Div., Swedish Newspaper Publishers Assen. 1967-; Chair. Swedish Nat. Cttee., Int. Press Inst. 1972-; Vice-Pres. Int. Pres. Inst., Zürich-London 1974-76, Pres. 1976-78; Vice-Pres. World Press Freedom Cttee., Miami, Fla., U.S.A. 1976-78; mem. Exec. Cttee. Int. Newspaper Publrs.' Assen. (FIEJ), Paris 1974, Sec.-Gen. 1978-; Founder and Chair. United Liberal Parties Movement, Sweden 1964-69; Vice-Pres. Malmö Municipal Art Cttee. 1967-76; Chevalier, Légion d'honneur 1968; Officer Italian Order of Merit 1969; Commdr. Finnish Order of the Lion 1971; Kt. Danish Order of the Dannebrog 1972; Commdr. Icelandic Order of the Falcon 1974; Kt. Polish Order of Polonia Restituta 1974; Kt. Order of Vasa (First Class) 1975. *Publications:* Motsols genom Frankrike 1962. *Leisure interest:* modern art. *Address:* Nicoloviusgatan 5 b, S-217 57 Malmö, Sweden. *Telephone:* 40/91-51-46.

WAHRHAFTIG, Zorach, DR.JUR.; Israeli lawyer and politician; b. 2 Feb. 1906, Warsaw, Poland; m.; three s. one d.; ed. Univ. of Warsaw; private law practice, Warsaw 1932-39; Vice-Pres. Mizrachi, Poland 1920-39; mem. of exec. Keren Hayesod, Hechalutz Hamizrachi, World Jewish Congress; Deputy Dir. Inst. of Jewish Affairs, New York 1943-47; Vice-Pres. Hapoel Hamizrachi, U.S.A. 1943-47; Dir. Vaad Leumi Law Dept. 1947; mem. Provisional Council, Govt. of Israel 1949; mem. of Knesset; Deputy Minister for Religious Affairs 1956-59; Minister of Religious Affairs 1962-74; Chair. Knesset Constitution, Law and Justice Cttee.; mem. Jewish Law Research Inst., Ministry of Justice 1948; Lecturer on Talmudic Law, Hebrew Univ.; mem. American Soc. for Int. Law; Chair. of Exec., Bar-Ilan Univ. *Publications:* Starvation over Europe 1943, Relief and Rehabilitation 1944, Where Shall they Go? 1946, Uprooted 1946, Hazaka in Jewish Law 1964, and many publications in Hebrew on Israeli Law and Religion. *Address:* The Knesset, Jerusalem, Israel.

WAIDELICH, Charles J., B.S., C.E.; American business executive; b. 2 May 1929, Columbus, O.; s. of Bernard H. Waidelich and Alberta L. Poth; m. Margaret E. Finley 1952; one s. one d.; ed. Purdue Univ.; Engineer, Cities Service Oil Co. 1951-53; Asst. to Pres. Cities Service Pipeline Co. 1956-59; Pipeline Co-ordinator, Cities Service Co. 1959-65; Transport Co-ordinator 1965-66; Staff Vice-Pres. Operations Co-ordination 1966-68; Vice-Pres., Opera-

tions, Tenn. Corpn. 1968-69; Exec. Vice-Pres. and Dir., Cities Service Co. 1970-71, Pres. 1971-78. *Leisure interests:* reading, sport, bridge, gardening. *Address:* 2161 Forest Blvd., Tulsa, Okla. 74114, U.S.A. (Home).

WAIN, John Barrington, M.A.; British writer; b. 14 March 1925, Stoke-on-Trent, Staffs.; s. of Arnold A. and Anne Wain; m. Eirian James 1960; three s.; ed. High School, Newcastle-under-Lyme and St. John's Coll., Oxford; Lecturer in English Literature, Univ. of Reading 1947-55; resigned 1955 to become free-lance writer and literary critic; occasional academic assignments incl. Churchill Visiting Prof., Univ. of Bristol 1967, Visiting Prof., Centre Univ. Expérimental, Vincennes, France and George Elliston Lecturer on Poetry, Univ. of Cincinnati, U.S.A.; 1st holder, Fellowship in Creative Arts, Brasenose Coll., Oxford Univ. 1971-72; Prof. of Poetry, Oxford Univ. 1973-78; Fellow Brasenose Coll. 1973-; Dir. 1st "Poetry at the Mermaid" Festival London 1961; James Tait Black Memorial Prize 1974, Heinemann Award 1975 for Samuel Johnson. *Publications:* poetry: Mixed Feelings 1951, A Word Carved on a Sill 1956, Weep Before God 1961, Wildtrack 1965, Letters to Five Artists 1969, The Shape of Feng 1972, Feng 1975; novels: Hurry on Down 1953, Living in the Present 1955, The Contenders 1958, A Travelling Woman 1959, Strike the Father Dead 1962, The Young Visitors 1965, The Smaller Sky 1967, A Winter in the Hills 1970; stories: Nuncle and other Stories 1960, Death of the Hind Legs 1966, The Life Guard 1971, The Pardoner's Tale 1978; play: Harry in the Night 1975; non-fiction: Preliminary Essays 1957, Sprightly Running (autobiog.) 1962, Essays on Literature and Ideas 1963, The Living World of Shakespeare 1964, A House for the Truth 1972, Samuel Johnson 1974, Professing Poetry 1977, [illegible] Edmund Wilson Celebration 1978; edited: Johnson [illegible] Critic 1974, Johnson on Johnson 1976. *Leisure interests:* walking, canoeing. *Address:* c/o Macmillan and Co. Ltd., Little Essex Street, London, W.C.2; 17 Wolvercote Green, Oxford, OX2 8BD, England (Home).

WAIYAKI, Dr. Munyua; Kenyan doctor and politician; b. 1926, Kikuyu, Kiambu District; ed. Alliance High School, Kikuyu, Adams Coll., South Africa, Fort Hare Univ. Coll., South Africa, St. Andrews Univ., Scotland, and Lund Univ., Sweden; Medical House Officer, Stracathro Gen. and Montrose Mental Hospitals 1957-58; Medical Officer, Kenya Medical Dept. 1958-59; private practice 1959; Chair. Nairobi Branch, Kenya African Nat. Union (KANU); mem. Legis. (now Nat.) Assembly 1961-; Parl. Sec. Ministry of Health and Housing 1963-64, Ministry of Defence in Office of Prime Minister 1964-66; later Asst. Minister of Health and Housing; later Deputy Speaker, Nat. Assembly; Minister of Foreign Affairs Oct. 1974-. *Address:* Ministry of Foreign Affairs, P.O. Box 30531, Nairobi, Kenya.

WAJDA, Andrzej; Polish film director; b. 6 March 1926, Suwałki; m. 1st Beata Tyszkiewicz 1967 (divorced), one d.; m. 2nd Krystyna Zachwatowicz 1975; ed. Acad. of Fine Arts, Cracow and Film Acad., Łódź; Asst. Stage Man. 1953; Film Dir. 1954-; Stage Man., Teatr Stary, Kraków 1973-; Pres. Polish Film Assen. 1978-; Hon. mem. Union of Polish Artists and Designers (ZPAP) 1977; Order of Banner of Labour (2nd Class) 1975; Polish State Prize for film Pokolenie (Generation), Silver Palm for Kanał, Cannes 1957, Fipresci Prize for Popiół i Diament, Venice 1957, The Birch Wood, Milan 1970, and for Landscape after Battle, Milan 1971, Silver Prize for The Wedding, San Sebastian 1973, Grand Prix for Krajobraz po bitwie, Colombo, Sri Lanka 1973, State Prize First Class 1974, Grand Prix Moscow Film Festival 1975 and Int. Prize Chicago Festival 1975 for The Promised Land, K. Swinarski Prize 1976, Valladolid Prize 1976, Grand Prix "Gdańsk Lions" for Bez znieczulenia (Without Sensibility) 1978, Fipresci Prize for Człowiek z marmuru (The Marble Man) Cannes Film Festival 1978, First Prize and Prize for Best Director for Ziemia obiecana (Promised Land) XVIII Film Festival, Cartagena, Colombia 1978, Premio David di Donatello "Luchino Visconti" 1978; Order of Kirill and Methodius 1st Class (Bulgaria) 1978. *Films:* Pokolenie (Generation) 1954, Idę do słońca (I'm Going to the Sun) 1955, Kanał (Canal) 1956, Popiół i Diament (Ashes and Diamonds) 1957, Lotna 1959, Niewinni Czarodzieje (Innocent Sorcerers) 1959, Samson 1960, Serbian Lady Macbeth 1961, Love at 20 1961, Popioły (Ashes) 1965, Bramy raju (Gates of Paradise) 1967, Wszystko [illegible] sprzedaż (Everything for Sale) 1968, Przekładaniec (Jigsaw Puzzle) (for TV) Polowamie na muchy (Hunting Flies) 1969, Macbeth (for TV) 1969, Krajobraz po bitwie (Landscape after Battle) 1970, The Birch Wood 1970, Pilatus (for TV) 1971, Mistrz i Małgorzata (Master and Margaret) (for Fed. German TV) 1972, Wesele (Wedding) 1972, Ziemia Obiecana (The Promised Land) 1975, Smuga cienia (The Shadow Line) 1976, Death Class (for TV) 1976, Cztowiek [illegible] Marmuru (The Marble Man) 1977, Bez znieczulenia (Without Sensibility) 1978, Les Demoiselles de Vilko 1979; directed plays: Hatful of Rain 1959, Hamlet 1960, Two on the Seesaw 1960, Wesele 1962, The Demons 1963, Play Strindberg 1969, The Devils 1971, Sticks and Bones, Moscow 1972, Der Mittmacher 1973, November Night 1974, The Danton Affair 1975, The Demons 1975, Idiot 1975, Kiedy Rozum Spi (When Reason Sleeps) 1976, Emigranci (The Emigrants) 1976, Hamlet 1976, Nastasia Philipovna (improvisation based on Dostoevsky's The Idiot) 1977, Conversation with the Executioner 1977, The Danton's Affair 1978, Rozmowyzi katem (Talks with Butcher) 1978, Z biegiem lat, z biegiem dni (Down The Years, Down The Days) 1978; scenography for Hatful of Rain, The Demons 1975, November Night. *Address:* Film Polski, ul. Mazowiecka 6/8, Warsaw (Office); 14 Haukego Street, 01-540 Warsaw, Poland (Home).

WALCHA, Helmut; German organist and harpsichordist; b. 27 Oct. 1907, Leipzig; s. of Emil Walcha and Anna Ficker; m. Ursula Koch 1939; ed. Leipzig Inst. of Music; Organist and teacher Musikhochschule, Frankfurt/Main 1929, Prof. of Music 1946-72; Organist, Dreikönigs Kirche, Frankfurt/Main. *Compositions:* Choral Preludes (3 vols.). *Recordings:* incl. complete works of Bach for organ solo and for harpsichord solo. *Leisure interest:* literature. *Address:* Hasselhorstweg 27, 6000 Frankfurt/Main, Federal Republic of Germany. *Telephone:* 65-35-24.

WALD, George, PH.D.; American university professor; b. 18 Nov. 1906, New York; s. of Isaac W. and Ernestine Rosenmann; m. Dr. Ruth Hubbard; one s. one d.; ed. New York Univ. and Columbia Univ., New York; Nat. Research Council Fellow, Kaiser Wilhelm Inst., Berlin and Heidelberg, Univ. of Zurich and Univ. of Chicago 1932-34; Tutor in Biochemical Sciences Harvard Univ. 1934-35, Instructor in Biology 1935-39, Faculty Instructor 1939-44, Assoc. Prof. of Biology 1944-48, Prof. 1948-77, Prof. Emer. 1977-, Higgins Prof. of Biology 1968-; Visiting Prof. of Biochem., Univ. of Calif., Berkeley 1956; Nat. Sigma Xi Lecturer 1952; Chair. Div. Cttee. on Biology and Medical Sciences, Nat. Science Foundation 1954-56; Guggenheim Fellow 1963-64; Overseas Fellow, Churchill Coll., Cambridge 1963-64; mem. Nat. Acad. of Sciences; Eli Lilly Prize, American Chemical Soc. 1939; Lasker Award, Public Health Asscn. 1953; Proctor Award, Assen. for Research in Ophthalmology 1955; Rumford Medal, American Acad. of Arts and Sciences 1959; Ives Medal, Optical Soc. of America 1966; Paul Karrer Medal in Chem., Univ. of Zürich 1967; co-recipient Nobel Prize for Medicine 1967; T. Duckett Jones Memorial Award 1967, Bradford Washburn Medal 1968, Max Berg Award 1969, Joseph Priestley Award 1970. *Address:* Department of Biology, Harvard University, Cambridge, Mass. 02138 (Office); 21 Lakeview Avenue, Cambridge, Mass. 02138, U.S.A. (Home).

WALD, Richard C.; American journalist; s. of Joseph S. and Lily (Forstate) Wald; m. Edith May Leslie 1953; two s. one d.; reporter, later Man. Ed. Herald Tribune 1955-66; Asst. Man. Ed. Washington Post 1967; Exec. Vice-Pres. Whitney Communications Corpn. New York 1968-; Vice-Pres. News NBC, Pres. 1973-; Dir. Columbia Spectator. *Address:* 30 Rockefeller Plaza, New York, N.Y. 10020 (Office); 35 Orchard Road, Larchmont, New York, N.Y. 10538, U.S.A. (Home).

WALDBRUNNER, Karl; Austrian engineer and politician; b. 25 Nov. 1906, Vienna; m. Friedl Sinkovc 1969; one s. one d.; ed. Vienna Technical Univ.; engaged in construction of power stations and plants in U.S.S.R. after completion of eng. studies; returned to Austria to become chief engineer of a steel works 1937; active mem. of Social Democratic Party since student days, illegal political activity during German occupation; mem. Nationalrat 1945-71; State Sec. for Commerce, Business, Industry, and Transport 1945; transferred to Federal Ministry of Insurance and Econ. Planning; Minister to U.S.SR. 1946; participated in Austrian Treaty negotiations in London 1947-49; Sec. Socialist Party of Austria 1946-56; Minister of Transport and Nationalised Industries 1949-56, of Communications and of Electric Power Devt. 1956-62; Deputy Pres. of Nat. Council 1962-70, Pres. 1970-71; Vice-Pres. Austrian Nationalbank 1972-; Deputy Chair. Socialist Party 1965-74; Hon. Pres., Fed. of Socialist Univ. Graduates, Intellectuals and Artists. *Leisure interests:* socialist university and cultural organizations, travel, photography. *Address:* Österreichische Nationalbank, Postfach 61, A-1011 Vienna (Office); Bickellgasse 12, Vienna 1120, Austria (Home). *Telephone:* 43-60-901 (Office).

WALDENSTRÖM, Erland, F.R.S.A.; Swedish civil engineer and company director; b. 4 June 1911, Malmö; s. of Martin Waldenström and Hedvig Lion; m. Dorothy Ethel Boleyn Drewry 1945; one s. two d.; ed. Royal Inst. of Technology; Engineer, Korsnäs Sågwerks AB, Gävle 1934, 1936-40; Expert, Tech. Research and Devt. Swedish Fed. of Industries 1940-46; Official Expert and Sec. State Cttee. on Tech. Research 1941-42; Chief, Tech. Office, Svenska Cellulosa AB, Sundsvall 1942-46, Chief Engineer 1947-49; Industrial Counsellor

UN Econ. Comm. for Europe (ECE), Geneva 1948; Dir. Luossavaara-Kiirunavaara AB 1950-, Pres. 1950-57; Pres. Gränges AB 1950-71, Chair. Board 1971-77; Dir. Fed. of Swedish Industries 1951-, Chair. 1971-73; Dir.-Gen. Export Assen. of Sweden 1951-59, 1973-74, Chair. 1971-73; Dir. Swedish Employers' Confed. 1951-72; Dir. Liberian American-Swedish Minerals Co. (LAMCO) (Monrovia) 1955-75, Chair. 1975-; Dir. Ironmasters Fed. 1955-62; Dir. Liberian Iron Ore Ltd. (Toronto) 1958-70, Chair. and Pres. 1970-; Chair. Swedish Mining Assen. 1957-59; Dir. Skandinaviska Banken 1957-71, 1st Vice-Chair. 1968-71, Dir. and 1st Vice-Chair. Skandinaviska Enskilda Banken 1972-; Chair. LAMCO Joint Venture 1960-75; Chair. Swedish LAMCO Syndicate 1963-; Dir. AB Bofors (Bofors) 1960-; Chair. Thiel Art Gallery 1961-; Dir. Stockholm School of Econs. 1961-77; Dir. S.A. Cockerill-Ougrée-Providence et Espérance-Longdoz (Seraing) 1970- (Espérance-Longdoz 1964-70); Dir. Bethlehem Copper Corpn. (Vancouver) 1970-73; Dir. Royal Swedish Opera 1961-72; Chair. Concert Assen. of Stockholm 1973-76 (mem. Board 1956-73); mem. Royal Swedish Acad. of Eng. Sciences 1948-, Pres. 1977-; mem. Centre d'Etudes Industrielles Foundation Board (Geneva) 1970-. *Publications:* On Industrial Progress in Sweden 1942, Waste and Residual Products in Forestry 1942, Development Trends in Forestry 1946; also several essays on tech. and econ. questions. *Address:* Gränges, Fack S-103 26, Stockholm 16 (Office); Villa Gröndal, Manillavägen 17, Djurgården, S-115 25, Stockholm, Sweden (Home).

WALDENSTRÖM, Jan Gosta, M.D.; Swedish professor of medicine; b. 17 April 1906, Stockholm; s. of Prof. Henning Waldenström and Elsa Laurin; m. 1st Elisabet Waldenström 1932, 2nd Karin Nordsjö 1957; five s. two d.; ed. Univs. of Uppsala and Cambridge, Technische Hochschule, Munich; various positions at Academic Hospital, Uppsala; Prof. of Theoretical Medicine, Uppsala 1947; Prof. of Practical Medicine, Univ. of Lund 1950-72; Physician-in-Chief, Dept. of Gen. Medicine, Gen. Hospital, Malmö 1950-72; foreign mem. Nat. Acad. of Sciences of U.S.A., French Acad. of Sciences; Hon. mem. Royal Soc. of Medicine, London and other foreign acads.; Jahre Scandinavian Prize in Medicine 1962, Gairdner Award 1966, Paul Ehrlich Prize 1972; hon. degrees from Univs. of Oslo, Dublin, Mainz, Oxford, Paris, London, Innsbruck and Poitiers. *Publications:* Studien über Porphyrie, 1937, Monoclonal and polyclonal hypergammaglobulinemia 1968, Diagnosis and Treatment of Multiple Myeloma 1970, Paraneoplasia 1978; numerous publs. on metabolic, hematologic and other subjects of internal medicine; chapters in many textbooks. *Leisure interests:* history, botany, travelling, art. *Address:* Department of Medicine, Malmö General Hospital, S 214 01 Malmö (Office); Sanekullavägen 17, S 217 74 Malmö, Sweden (Home). *Telephone:* 040/91-62-02.

WALDHEIM, Kurt, LL.D.; Austrian diplomatist and United Nations official; b. 21 Dec. 1918; m. Elisabeth Ritschel Waldheim 1944; one s. two d.; ed. Consular Acad. of Vienna, Univ. of Vienna; entered foreign service 1945; served Ministry of Foreign Affairs; mem. Austrian Del. to Paris, London and Moscow for negotiation on Austrian State Treaty; 1st Sec. 1945-47; served Paris 1948-51; Counsellor and Head of Personnel Div., Ministry of Foreign Affairs 1951-55; Perm. Austrian Observer to UN 1955-56; Minister to Canada 1956-58, Amb. to Canada 1958-60; Dir.-Gen. for Political Affairs, Ministry for Foreign Affairs 1960-64; Perm. Rep. to UN 1964-68; Chair. Outer Space Cttee. of UN 1965-68, 1970-71; Fed. Minister for Foreign Affairs 1968-70; Perm. Rep. to UN 1970-71; Candidate for Pres. of Austria 1971; Sec.-Gen. of UN 1972-; several decorations. *Publications:* Der österreichische Weg (The Austrian Example), Un metier unique au monde. *Address:* United Nations, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 754-5012.

WALDING, Joseph A.; New Zealand politician; b. 1926, Christchurch; m.; six d.; ed. Wellington and Dunedin; served in Merchant Navy, World War II, France, Atlantic and Pacific; City Councillor, Palmerston North; mem. Parl. for Palmerston North 1967-75; founder, Man. Dir. Export Co.; Minister of Overseas Trade, the Environment, Recreation and Sport 1972-75, also Assoc. Minister of Foreign Affairs 1972-75, fmr. Pres., Sec. Palmerston N. Workers' Educ. Assen.; Joint Vice-Pres. Labour Party 1977-78; now Trade Consultant. *Leisure interests:* music, chess, fishing, golf. *Address:* 131 Fitzherbert Avenue, Palmerston, New Zealand.

WALDOCK, Sir (Claud) Humphrey (Meredith), Kt., C.M.G., O.B.E., Q.C., D.C.L.; British international lawyer; b. 13 Aug. 1904, Colombo, Ceylon; s. of F. W. Waldock and Lizzie K. Souter; m. Ethel B. Williams; one s. one d.; ed. Uppingham School, and Brasenose Coll., Oxford; Barrister-at-Law 1928; Fellow of Brasenose Coll. 1930-47; Principal Admiralty 1940; Asst. Sec. 1943, Principal Asst. Sec. 1944-45; U.K. Commr., Italo-Yugoslav Boundary Comm. 1946; attached as Under-Sec. to Foreign Office; U.K. Rep. on Comm. for Statute of Free Territory of Trieste, Paris Conf. 1946; Chichele Prof. of Public Int. Law Oxford 1947-72; Assoc. Inst. of Int. Law 1950-61, mem. 1961-; mem. European Comm. of Human Rights 1954, Pres. 1955-61, Judge 1966-74, Vice-Pres. 1969-71, Pres. 1971-74; mem. Int. Law Comm. 1961-73; Special Rapporteur on the Law of Treaties; mem. Perm. Court of Arbitration 1965-; Chair. Cttee. of Inquiry into Oxford Univ. Press 1967-70; Judge, Int. Court of Justice 1973-, Pres. 1979-; mem. Curatorium of The Hague Acad. 1977-; mem. Anglo-French Court of Arbitration on the Delimitation of the Continental Shelf 1977-78; mem. Swedish-Finnish, Swedish-Swiss, Swedish-Turkish, German-Swiss, American-Danish, Chilean-Italian, Danish-Norwegian and Swedish-Spanish Conciliation Comms.; Fellow of All Souls Coll., Oxford 1947-72; Bencher Gray's Inn (Treas. 1971); Hon. Fellow, Brasenose Coll.; King Christian X of Denmark Liberty Medal 1946; Commdr. Order of Isabel la Católica of Spain 1961, Order of the Dannebrog (Denmark) 1969; Grand Officer Order of Merit (Chile) 1969. *Publications:* English Law of Mortgages 1938, The Regulation of the Use of Force 1952, General Course in Public International Law 1962, articles in learned journals; Editor The British Year Book of International Law 1955-74, 6th Edn. of Brierley's Law of Nations 1963. *Address:* International Court of Justice, Peace Palace, The Hague 2012, Netherlands; 6 Lathbury Road, Oxford, England (Home). *Telephone:* 58227 (Home).

WALDRON-RAMSEY, Waldo Emerson, LL.B., B.SC., LL.M., PH.D.; Barbadian diplomatist; b. 1 Jan. 1930, Barbados; s. of late Wyatt and Delcina Waldron-Ramsey; m.; one s. two d.; ed. Schools in Barbados, London School of Economics, Middle Temple, London, Hague Acad. of Int. Law and Univs. in Yugoslavia; Legal Adviser and Welfare Officer, London Transport Exec. 1956-57; practising barrister, London 1957-60; Marketing Economist, Shell Int. 1960-62; Rep. of Tanzania at UN 1962-70; Barbados High Commr. in U.K. (also Amb. to France, Netherlands and Fed. Repub. of Germany) 1970-71; UN Legal Expert in field of Human Rights 1967-71, on Israel 1968-71; Perm. Rep. to UN 1971-76; Teaching Fellow, Univ. of Chung-Ang, Seoul, Repub. of Korea 1974-; Grand Officer, First Class (Haiti), Grand Officer (First Class) of the Fahia Mêtrei of the Khmer Repub.; Hon. Ph.D., Hebrew Univ., Jerusalem, Hon. LL.D., Univ. of Phnom Penh and Univ. of Chung-Ang; decorations from several Afro-American and other socs. in U.S.A. in recognition of work for human rights at UN; mem. American Acad. Political and Social Science, American Soc. of Int. Law, American Petroleum Inst. (Marketing). *Leisure interests:* cricket, table tennis, contract bridge, hiking. *Address:* c/o Ministry of Foreign Affairs, Bridgetown, Barbados.

WALES, Prince of, and Earl of Chester (cr. 1958), H.R.H. **The Prince Charles Philip Arthur George,** K.G., K.T., P.C., G.C.B., M.A., Duke of Cornwall and Rothesay, Earl of Carrick, Baron of Renfrew, Lord of the Isles and Great Steward of Scotland (cr. 1952); eldest son of H.M. Queen Elizabeth II; b. 14 Nov. 1948; ed. Cheam School, Gordonstoun School, Geelong Grammar School, Trinity Coll., Cambridge, and Univ. Coll. of Wales, Aberystwyth; Barrister, Gray's Inn 1974, Hon. Bencher 1975; Personal A.D.C. to H.M. the Queen 1973-; Commdr. R.N. 1976-; Col.-in-Chief The Royal Regt. of Wales (24th/41st Foot) 1969-; Col. Welsh Guards 1974-; Col.-in-Chief The Cheshire Regt. 1977-, The Gordon Highlanders 1977-, Lord Strathcona's Horse (Royal Canadian) Regt. 1977-, The Parachute Regt. 1977-, The Royal Australian Armoured Corps 1977-, The Royal Regt. of Canada 1977-, 2nd King Edward VII Own Goorkhas 1977-, The Royal Winnipeg Rifles 1977-; Wing. Commdr. R.A.F. 1976-; Hon. Air Cdre. R.A.F. Brawdy 1977-; Air Cdre. in Chief R.N.Z.A.F. 1977-; Col.-in-Chief Air Reserves Group of Air Command in Canada 1977-; Pres. Soc. of St. George's and Descendants of Knights of the Garter 1975-; Cdre. Royal Thames Yacht Club 1974-; High Steward, Royal Borough of Windsor and Maidenhead 1974-; Chair. Queen's Silver Jubilee Trust 1978-; Pres. United World Colls. 1978-; Chair. The Prince of Wales' Cttee. for Wales 1971-; Pres. The Prince's Trust 1975-; Chancellor, Univ. of Wales 1976-; mem. Board Commonwealth Devt. Corpn. 1979; represented H.M. the Queen at Independence Celebrations in Fiji 1970, at Requiem Mass for Gen. Charles de Gaulle 1970, at Bahamas Independence Celebrations 1973, at Papua New Guinea Independence Celebrations 1975, at Coronation of King of Nepal 1975, at funeral of Sir Robert Menzies 1978, at funeral of Jomo Kenyatta 1978; Coronation Medal 1953, The Queen's Silver Jubilee Medal 1977, Grand Cross of The Southern Cross of Brazil 1978, Grand Cross of The White Rose of Finland 1969, Grand Cordon of the Supreme of the Chrysanthemum of Japan 1971, Grand Cross of The House of Orange of the Netherlands 1972, Grand Cross Order of Oak Crown of Luxembourg 1972, Knight of The Order of Elephant of Denmark 1974, Grand Cross of The Order of Ojasvi Rajanya of Nepal 1975; cr. Prince of Wales and Earl of Chester (invested July 1969); K.G. 1958 (invested and installed 1968), K.T.

1977, P.C. 1977, G.C.B. and Great Master of Order of the Bath 1975; received Freedom of City of Cardiff 1969, of Royal Borough of New Windsor 1970, of City of London 1971, of Chester 1973, of City of Canterbury 1978; Liveryman of Fishmongers' Co. 1971; Freeman of Drapers' Co. 1971; Freeman of Shipwrights' Co. 1978; Hon. mem. of Hon. Co. of Master Mariners 1977. *Address:* Buckingham Palace, Londor, S.W.1, England.

WALHAIN, Michel Octave Marie Louis, L. EN D.; French business executive; b. 25 Sept. 1915, Neuilly-sur-Seine; s. of Charles and Marie (Fritz de Graw) Walhain; m. Ketty Eloy 1943; one s. one d.; ed. Collège Sainte Croix de Neuilly, Lycée Pasteur, Faculté de Droit, Paris; Asst. Gen. Man. Thomson-Houston-Hotchkiss-Brandt (now Thomson-Brandt) 1972-76, Pres. Thomson-Brandt and Vice-Pres. Thomson-CSF 1976-; Pres. Soc. CIAPEM 1976; Pres. Société SODAME (Société pour la Diffusion des Applications Modernes de l'Electricité); Chevalier, Légion d'honneur; Croix de guerre. *Address:* Thomson-Brandt, 173 Boulevard Haussmann, 75008 Paris (Office); 148 Boulevard Bineau, 92200 Neuilly-sur-Seine, France (Home). *Telephone:* 256-96-00 (Office); 722-87-47 (Home).

WALKER, Ardis Manly, B.S.; American engineer, poet and writer; b. 9 April 1901, Keysville, Calif.; s. of William Brannon Walker and Etta May Bole; m. Gayle Mendelssohn 1937; ed. Univ. of California, and Univ. of Southern California; mem. Tech. Staff Bell Telephone Labs. New York City 1927-32; poet and writer on American-Indian lore and early Californian history; also lecturer. *Publications:* Quatrains (verse), Muse, American Lyric Poetry, Sierra Prologue, Poets on Parade, Poetry Digest, The Winged Word, Mission Sonnets, Francisco Garces, Man and Missionary, Pioneer Padre, The Manly Story, Judas on the Kern, Sierra Sonnets, Last Gunmen, Freeman Junction, Walker Pass, Borax Smith: an Evaluation, Kern River Vignettes, The Rough and the Righteous, High Choice (verse), Vigor (verse), Haiku and Camera, West From Manhattan, The Prospectors (verse), The Pageant (verse), Buena Vista (Haiku), West from Manhattan (prose poems); biographical study of artist Philip R. Goodwin 1977, Boreal Wilderness (verse and prose poems) 1977, Greetings and Broadsides. *Leisure interests:* collecting and researching Western Americana, conservation, exploring High Sierra Nevada. *Address:* P.O. Box 37, Kernville, Calif. 93238, U.S.A. *Telephone:* 376-6296.

WALKER, Charls Edward, M.B.A., PH.D.; American economist; b. 24 Dec. 1923, Graham, Tex.; s. of Pinkney Clay Walker and Sammye McCombs Walker; m. Harmolyn Hart 1949; one s. one d.; ed. Univ. of Texas and Univ. of Philadelphia; Pilot, U.S.A.F. World War II; Instructor in Finance and later Asst. and Assoc. Prof., Univ. of Tex. 1947-54; Instructor in Finance, Wharton School 1948-50; Assoc. Economist, Fed. Reserve Bank of Phila. 1953-54; Economist and Special Asst. to Pres. of the Repub. Nat. Bank of Dallas 1955-56; Vice-Pres. and Financial Economist, Fed. Reserve Bank of Dallas 1958-61; Asst. to the Sec. of the Treasury 1959-61; Exec. Vice-Pres., American Bankers' Assn. 1961-69; Under-Sec. of the Treasury 1969-72; Deputy Sec. of the Treasury 1972-73; Chair. American Council for Capital Formation; Trustee Joint Council on Econ. Educ.; Treasury Cttee. on the Present Danger; Co-Chair. Presidential Debates 1976; Hon. LL.D. (Ashland Coll.) 1970. *Publications:* The Banker's Handbook 1978 (co-editor); numerous articles in economic and other journals. *Leisure interests:* golf, music. *Address:* 10120 Chapel Road, Potomac, Md. 20854, U.S.A. *Telephone:* (202) 393-4760 (Office); (301) 299-5414 (Home).

WALKER, Sir (Charles) Michael, G.C.M.G.; British diplomatist (retd.); b. 22 Nov. 1916, Simla, India; s. of late Col. C. W. G. Walker; m. Enid Dorothy McAdam 1945; one s. one d.; ed. Charterhouse School and Oxford Univ.; army service 1939-45; Dominions Office 1947-49; First Sec. British Embassy, Washington 1949-51; Office of High Commr., Calcutta and New Delhi 1952-55; Establishment Officer, Commonwealth Relations Office 1955-58; Imperial Defence Coll. 1958-59; Asst. Under-Sec. of State and Dir. of Establishments and Org., Commonwealth Relations Office 1959-62; High Commr. in Ceylon 1962-65, in Malaysia 1966-71; Sec. to Overseas Devt. Admin., Foreign and Commonwealth Office 1971-73; High Commr. in India 1974-76; Chair. Commonwealth Scholarship Comm. 1977-. *Leisure interests:* gardening, fishing, golf. *Address:* 40 Bourne Street, London, S.W.1, England.

WALKER, Daniel, J.D.; American state governor; b. 6 Aug. 1922, San Diego, Calif.; m. Roberta Dowse 1947; three s. four d.; ed. U.S. Naval Acad. of Northwestern Univ.; Admin. Aide to Gov. Adlai E. Stevenson II (Illinois) 1952; with Hopkins, Sutter, Owen, Mulroy, Wentz and Davis (law firm) 1953-66; Vice-Pres. and Gen. Counsel, Marcor and Vice-Pres., Gen. Counsel and Dir. Montgomery Ward & Co. 1966-71; Pres. Chicago Crime Comm. 1968-69; Gov. of Illinois 1973-77; Hon D.Hum.Litt. (Carroll Coll.) and several awards for distinguished service. *Publications:* Spotlights on Organized Crime, Rights in Conflict, Military Law (Textbook). *Leisure interests:* hunting, tennis. *Address:* 1152 Norman Lane, Deerfield, Ill. 60015, U.S.A.

WALKER, Sir (Edward) Ronald, C.B.E., M.A., PH.D., LITT.D., D.SC.(ECON.); Australian economist and diplomatist; b. 26 Jan. 1907, Cobar; s. of Frederick T. Walker; m. Louise Donckers 1933; one s. one d.; ed. Univ. of Sydney and Cambridge Univ.; Lecturer in Econs., Univ. of Sydney 1927-38; Prof. of Econs., Univ. of Tasmania 1939-46; Econ. Adviser, N.S.W. Treasury 1938-39, Govt. of Tasmania 1939-42; Deputy Dir.-Gen. Australian Dept. of War Org. of Industry 1942-45; Econ. Counsellor for Europe and Counsellor, Australian Embassy, Paris 1945-50; Exec. mem. Australian Nat. Security Resources Board 1950-52; Amb. to Japan 1952-55, to U.N. 1956-59, and Australian Rep. on the Security Council 1956-57; Chair. UNESCO Exec. Board 1947-48, Pres. UNESCO Gen. Conf. 1949; Chair. UN Experts on Full Employment 1949; Australian Rep. on Disarmament Comm. 1956-58, on Econ. and Social Council 1962-64 (Pres. 1964), Advisory Cttee. on Application of Science and Tech. 1964-74; Amb. to France 1959-68, to Fed. Repub. of Germany 1968-71, to OECD 1971-73; Adviser to Govt. on Multi-nat. Corpns. 1973-74. *Publications:* An Outline of Australian Economics 1931, Australia in the World Depression 1933, Money (co-author) 1935, Unemployment Policy 1936, War-time Economics 1939, From Economic Theory to Policy 1943, The Australian Economy in War and Reconstruction 1947, National and International Measures for Full Employment (in collab.) 1950. *Address:* 1 rue de Longchamp, 75116 Paris, France. *Telephone:* 553-0300.

WALKER, Herbert John; New Zealand chartered accountant and politician; b. 2 June 1919, Rangiora; s. of Robert J. Walker and Margaret J. Johnston; m. Phyllis Tregurtha 1942; three s.; Accountant, Lincoln Agricultural Coll. 1954-60; Lincoln Coll. Board of Govs. 1960-70; Pres. Canterbury Trustee Savings Bank 1969; mem. Parl. 1960-78; Minister of Tourism, Minister of Broadcasting 1969-72, also Postmaster-Gen. Feb.-Dec. 1972; Minister of Social Welfare 1975-78, also Minister in charge of State Insurance Office, Govt. Life Insurance, Earthquake and War Damage; lost seat in election 1978; Order of St. Lazarus of Jerusalem. *Leisure interest:* community activities. *Address:* 36 Jennifer Street, Christchurch, New Zealand. *Telephone:* 515703.

WALKER, John, B.A.; American art museum director; b. 24 Dec. 1906, Pittsburgh, Pa.; s. of Hay and Rebekah (Friend) Walker; m. Lady Margaret Gwendolen Mary Drummond 1937; one s. one d.; ed. Harvard Univ., and with Berenson in Florence; Assoc. in charge of Fine Arts, American Acad. in Rome 1935-39; Chief Curator, Nat. Gallery of Art, Washington 1939-69, and Dir. 1956-69; Trustee, American Fed. of Arts, Nat. Trust for Historic Preservation, A. W. Mellon Educational & Charitable Trust, Wallace Foundation; mem. Advisory Council, Inst. of Fine Arts of New York Univ.; mem. Board of Advisers of Dumbarton Oaks, Art Advisory Panel, British Nat. Trust, White House Historical Assn.; Hon. D.F.A. (Tufts, Brown Univs., La Salle Coll.); Hon. D.Litt. (Notre Dame, Washington and Jefferson, and other hon. degrees; Officier Légion d'honneur. *Publications:* A Guide to the Gardens and Villas of Italy (with Amey Aldrich) 1938; edited: Great American Paintings from Smibert to Bellows 1729-1924 (with Macgill James) 1943, Masterpieces of Painting from the National Gallery of Art (with Huntington Cairns) 1944, Great Paintings from the National Gallery of Art (with Huntington Cairns) 1952; Paintings from America 1951, Bellini and Titian at Ferrara 1956, The National Gallery of Art, Washington 1956, Treasures from the National Gallery of Art (with Huntington Cairns) 1962, The National Gallery of Art, Washington, D.C. 1963, Pageant of Painting 1966, Self-Portrait with Donors 1974. *Leisure interests:* chess, bridge. *Address:* 4th Floor, 1729 H Street, N.W., Washington, D.C. 20006, U.S.A. *Telephone:* 298-8064.

WALKER, John Charles, M.S., PH.D.; American plant pathologist; b. 6 July 1893, Racine, Wis.; m. 1st 1920 (died 1966), 2nd 1966; one s.; ed. Univ. of Wisconsin; Asst. in Plant Pathology, Univ. of Wisconsin 1914-17, Instr. 1919, Asst. Prof. 1919-25, Assoc. Prof. 1925-28, Prof. 1928-64, Prof. Emer. 1964-; Scientific Asst., U.S. Dept. of Agric. 1917-19, Asst. Pathologist 1919-25, Agent 1925-45, Collaborator 1945-; mem. Nat. Acad. of Sciences, American Phytopathological Soc., Botanical Soc. of America, American Soc. of Naturalists; Hon. mem. Assn. Applied Phytopathological Soc.; E. C. Stakman Award (Univ of Minn.) 1972, Wolf Prize in Agric. 1978. *Publications:* Diseases of Vegetable Crops 1952, Plant Pathology 1950. *Leisure interests:* bowling, travel. *Address:* 14016 North Newcastle Drive, Sun City, Arizona 85351, U.S.A. *Telephone:* 977-3788.

WALKER, Sir Michael (see Walker, Sir Charles Michael).

WALKER, Rt. Hon. Peter Edward, P.C., M.B.E., M.P.; British businessman and politician; b. 25 March 1932; s. of Sydney and Rose Walker; m. Tessa Joan Pout 1969; three s. one d.; ed. Latymer Upper School; Chair. Rose, Thomson, Young and Co. Ltd. (Lloyd's Brokers) 1956-70; Deputy Chair. Slater Walker Securities Ltd. 1964-70; Dir. Adwest Ltd. 1963-70; mem. Lloyd's 1969-75; Parl. candidate for Dartford 1955 and 1959, M.P. for Worcester 1961-; mem. Nat. Exec. of Conservative Party 1956-; Nat. Chair. Young Conservatives 1958-60; mem. Conservative Commonwealth Council Gen. Cttee. 1960; Parl. Private Sec. to Leader of House of Commons 1963-64; Opposition Spokesman Finance and Econs. 1964-66, Transport 1966-68, Housing and Local Govt. 1968-70; Minister of Housing and Local Govt. 1970; Sec. of State for the Environment 1970-72, for Trade and Industry 1972-74; Opposition Spokesman on Trade and Industry 1974, Defence 1974-75; Sec. of State for Agric., Fisheries and Food May 1979-; Conservative. *Publication:* The Ascent of Britain 1977. *Address:* House of Commons, London, S.W.1; Deer Park, Droitwich, Worcestershire, England (Home).

WALKER, Sir Ronald (see Walker, Sir Edward Ronald).

WALKER, Wilbert A.; American accountant; b. 26 July 1910, Pittsburgh; m.; one d.; ed. Tarentum and Irwin public schools, Univ. of Pittsburgh; Junior Accountant, Ernst and Ernst 1934-39; Sales and System Staff, Int. Business Machines Corpn. 1940; joined U.S. Steel Corpn. 1941, Vice-Pres. Accounting, Dir. Carnegie-Illinois Steel Corpn. 1949, U.S. Steel Corpn. 1951-, Vice-Pres., Comptroller 1956, Admin. Vice-Pres., Comptroller 1959, Exec. Vice-Pres., Comptroller 1967, Dir. 1968-, Chair. Finance Cttee. 1970, Pres. 1973-75 (retd.); Dir. American Standard 1975-, Chemical N.Y. Corpn. 1975-, Chemical Bank, N.Y. 1975-, Marsh McLennen 1975-, Moller Steamship Co. 1975-, Atlantic Pacific Marine Corpn. 1975-; mem. Financial Execs. Inst., American Inst. of Accountants, Pa. Inst. of Certified Accountants and others. *Publication:* co-author Industrial Internal Auditing 1951. *Address:* U.S. Steel Corporation, 600 Grant Street, Pittsburgh, Pa. 15230 (Office); 220 Belleview Boulevard, Belleair, Florida 33516, U.S.A. (Home). *Telephone:* (813) 441-8349 (Home).

WALKUP, William Edmondson; American business executive; b. 31 May 1918, Nashville, Tenn.; s. of John Pegram and Marion (Edmondson) Walkup; m. Dorothy Elizabeth Sanborn 1939; two s. one d.; ed. Univ. of Calif. at Los Angeles and Nat. Univ. of Mexico. Mail Clerk, Signal Oil and Gas Co. (later named The Signal Companies, Inc.) 1939, at Crude Oil Dept., Huntington Beach 1943-48, Admin. Asst. to Pres. 1948-55, Controller 1955-58, Dir. 1955-, Vice-Pres. Finance 1958-62, Group Vice-Pres.-Staff 1962-64, Senior Exec. Vice-Pres. Jan. 1964-68, Exec. Vice-Pres. and Vice-Chair. The Signal Cos., Inc. 1968-69, Exec. Vice-Pres. and Chair. of the Board April 1969-; Dir. The Garrett Corpn., Mack Trucks, Inc., UOP Inc. *Leisure interests:* golf, reading, gardening. *Address:* The Signal Companies, Inc., 9665 Wilshire Boulevard, Beverly Hills, Calif. 90212 (Office); 1140 Brooklawn Drive, Los Angeles, Calif. 90024, U.S.A. (Home). *Telephone:* (213) 278-7400 (Office).

WALL, Baron (Life Peer), cr. 1976, of Coombe in Greater London; **John Wall,** Kt., O.B.E., C.I.E.E. F.B.I.M., C.I.E.R.E.; British computers executive; b. 15 Feb. 1913, London; s. of Harry A. F. and Marie Wall; m. Gladys E. Wright 1939; two s. one d.; ed. Wandsworth School and London School of Econs; with O. T. Falk & Co., merchant bankers 1933; Ministry of Food 1939, Under-Sec. 1946; Deputy Head, Finance Dept., Unilever Ltd. 1952, Head Org. Div. 1956; Dir. Electric and Musical Industries 1958, Man. Dir. 1960; Deputy Chair. Post Office Board 1966-68; Chair. Int. Computers (Holdings) Ltd., Int. Computers Ltd. 1968-72, Burrup Mathieson Ltd. 1973-76, Charterhouse Devt. Capital Ltd. 1976-; Dir. Laporte Industries Ltd. 1968-, Exchange Telegraph (Holdings) Ltd. 1972-77, Grundy (Teddington) Ltd. 1972-; Dir. and Deputy Chair. Data Recording Instruments Ltd. 1974-76; non.-exec. Dir. Nurdin and Peacock 1977; non-exec. Dir. Graham How Ltd. 1977-; Fellow, Royal Statistical Soc., Hon. Fellow, London School of Econs.; Assoc. mem. Operational Research Soc.; Officer, Order of Orange-Nassau. *Leisure interest:* golf. *Address:* Wychwood, Coombe End, Kingston-upon-Thames, Surrey, England.

WALL, Frederick Theodore, B.CHEM., PH.D.; American physical chemist; b. 14 Dec. 1912, Chisholm, Minn.; s. of Peter Wall and Fanny Rauhala Wall; m. Clara Vivian 1940; two d.; ed. Univ. of Minnesota; Instructor to Prof. of Chem., Univ. of Ill. 1937-64, Dean of Graduate Coll. 1955-63; Prof. of Chem., Univ. of Calif. at Santa Barbara 1964-66, Vice-Chancellor Research 1965-66; Vice-Chancellor Graduate Studies and Research, and Prof. of Chem., Univ. of Calif. at San Diego 1966-69; Ed. Journal of Physical Chemistry 1965-69; Exec. Dir. of American Chem. Soc. 1969-72; Prof. of Chem., Rice Univ. 1972-78, San Diego State Univ. 1979-; Chair. Board of Trustees, Univs. Space Research Assn. 1969-73, Vice-Chair. Council of Insts. 1973-74, Chair. 1974-75; Fellow American Acad. of Arts and Sciences; mem. Nat. Acad. of Sciences; Corresp. mem. Finnish Chemical Soc.; American Chemical Soc. Award in Pure Chem. 1945, Univ. of Minn. Outstanding Achievement Award 1959. *Publications:* Chemical Thermodynamics 1958; numerous scientific articles on statistics of macromolecular configurations, rates of chemical reactions, and polymeric electrolytes. *Address:* Department of Chemistry, San Diego State University, San Diego, Calif. 92182, U.S.A. *Telephone:* (714) 286-6274.

WALLACE, Bruce, PH.D.; American professor of genetics; b. 18 May 1920, McKean, Pa.; s. of George E. and Rose Paterson Wallace; m. Miriam Covalla 1945; one s. one d.; ed. Columbia Coll. and Columbia Univ.; Research Assoc., Dept. of Genetics, Carnegie Inst. of Washington 1947-49; Geneticist, later Asst. Dir., Biological Lab., Cold Spring Harbour, N.Y. 1949-58; Assoc. Prof., Cornell Univ. 1958-61, Prof. of Genetics 1961-; mem. Nat. Acad. of Sciences 1970-72, American Acad. of Arts and Sciences. *Publications:* Radiation, Genes, and Man (with Th. Dobzhansky) 1959, Adaptation (with A. M. Srb) 1961, Chromosomes, Giant Molecules and Evolution 1966, Topics in Population Genetics 1968, Genetic Load 1970, Essays in Social Biology 1972. *Address:* 416 Mitchell Street, Ithaca, N.Y. 14850, U.S.A. *Telephone:* (607) 273-7895.

WALLACE, DeWitt; American publisher; b. 12 Nov. 1889; m. Lila Bel Acheson 1921; ed. California Univ.; with Webb Publishing Co. 1911-15, Brown and Bigelow 1916; sergeant in U.S. Army 1917-19; Founder-Ed. Reader's Digest 1921-65, Chair. and majority shareholder 1921-73 (retd.), now Dir. *Leisure interests:* collecting paintings (particularly French impressionists). *Address:* Byram Lake Road, Mount Kisco, N.Y., U.S.A.

WALLACE, Doreen (Mrs. D. E. A. Rash), M.A.; British writer; b. 18 June 1897, Lorton, Cumberland; d. of R. B. A. Wallace and Mary Elizabeth Peebles; m. Rowland H. Rash 1922; one s. two d.; ed. Malvern Girl's Coll., and Somerville Coll., Oxford; fmr. teacher; anti-tithe publicist; novelist and reviewer. *Publications:* Esques (with E. F. A. Geach) 1918, A Little Learning, The Gentle Heart, The Portion of the Levites, Creatures of an Hour, Even Such is Time, The Tithe War 1933, Barnham Rectory 1934, Latter Howe 1935, Going to Sea 1936, Old Father Antic 1937, The Faithful Compass 1937, The Time of Wild Roses 1938, A Handful of Silver 1939, East Anglia 1939, English Lakeland 1940, The Spring Returns 1940, Green Acres 1941, Land from the Waters 1944, Carlotta Green 1944, The Noble Savage 1945, Billy Potter 1946, Willow Farm 1948, How Little We Know 1949, Only One Life 1950, In a Green Shade 1950, Root of Evil 1952, Sons of Gentlemen 1953, The Younger Son 1954, Daughters 1955, The Interloper 1956, The Money Field 1957, Forty Years On 1958, Richard and Lucy 1959, Mayland Hall 1960, Lindsay Langton and Wives 1961, Woman with ■ Mirror 1963, The Mill Pond 1966, Ashbury People 1968, The Turtle 1969, Elegy 1970, An Earthly Paradise 1971, A Thinking Reed 1973, Changes and Chances 1975, Landscape with Figures 1976. *Leisure interests:* painting, gardening, stirring up politics. *Address:* 2 Manor Gardens, Diss, Norfolk, England. *Telephone:* Diss 3479.

WALLACE, George Corley; American lawyer and politician; b. 25 April 1919; m. 1st Lurleen Wallace (died 1968), 2nd Cornelia Ellis Snively 1971 (divorced 1978); ed. Univ. of Alabama; fmr. state judge, Alabama; fmr. mem. Alabama State Legislature; Gov. of Alabama 1963-67, 1971-79; Dir. of Devt. for Rehabilitation Resources, Univ. of Alabama School System 1978-; cand. for Pres. American Ind. Party 1968; shot and wounded in assassination attempt May 1972; Order of Lafayette Freedom Award 1973; Democrat. *Address:* 1142 S. Perry Street, Montgomery, Alabama, U.S.A.

WALLACE, Walter Wilkinson, C.V.O., C.B.E., D.S.C.; British overseas administrator; b. 23 Sept. 1923, Edinburgh; s. of late Walter W. Wallace and of Helen M. Douglas; m. Susan Blanche Parry 1955; one s. one d.; ed. George Heriot's School, Edinburgh; Capt. Royal Marines 1942-46; Asst. District Commr., Sierra Leone 1948-54; Principal, Colonial Office 1955-57; District Commr., Sierra Leone 1957-61, Prov. Commr. 1961, Devt. Sec. 1962-64; Establishment Sec., Bahamas 1964-67; Sec. to the Cabinet, Bermuda 1968-73; H.M. Commr., Anguilla 1973; Gov. of British Virgin Islands 1974-78. *Leisure interest:* golf. *Address:* Becketts, Itchenor, W. Sussex, England (Home). *Telephone:* Birdham 512438.

WALLACH, Eli, M.S. IN ED.; American actor; b. 7 Dec. 1915, Brooklyn, N.Y.; m. Anne Jackson 1948; one s. two d.; ed. Univ. of Texas, City Coll. of New York, Neighbourhood Playhouse School of Theatre; started theatre career 1946, film career 1955; Donaldson

Award, Tony Award, British Film Acad. Award 1956; acted in plays: The Rose Tattoo, The Teahouse of the August Moon, Camino Real, Luv, Typists and Tiger, Promenade All 1973, Waltz of the Toreadors 1974, The Diary of Anne Frank 1978. *Films include:* Baby Doll 1956, The Line-Up 1958, Seven Thieves 1959, The Magnificent Seven 1960, The Misfits 1961, How the West Was Won 1962, The Victors 1963, The Moonspinners 1964, Lord Jim 1965, Genghis Khan 1965, How to Steal a Million 1966, The Good, the Bad and the Ugly 1967, The Tiger Makes Out 1967, Mackenna's Gold 1968, Cinderella Liberty 1973, Domino Principle 1975, The Sentinel 1975, The Deep 1975, Winter Kills 1975, The Silent Flute 1978, Movie Movie 1978. *Leisure interest:* photography. *Address:* c/o Actors' Equity Association, 165 West 56th Street, New York, N.Y. 10036, U.S.A.

WALLENBERG, Jacob; Swedish banker; b. 27 Sept. 1892, Stockholm; ed. School of Economics, Stockholm; Asst. Man. Stockholms Enskilda Bank 1918, Vice-Man. Dir. and mem. Board 1920, Man. Dir. 1927-46, Vice-Chair. of Board 1946-50, Chair. 1950-69; Chair. Förvaltnings AB Providentia, AB Investor until 1978; mem. Board Nobel Foundation 1952-68; Chair. of Board, Knut and Alice Wallenberg Foundation 1966-; Dr. h.c. (Econ.) and Dr. med. h.c.; Hon. mem. Royal Swedish Acad. of Eng. Sciences; Commdr. Grand Cross Order of Vasa, Commdr. Grand Cross Order of Polar Star, Commdr. 1st Class Order of Dannebrog (Denmark), Commdr. of White Rose of Finland, Chevalier Légion d'honneur. *Leisure interests:* yachting and shooting. *Address:* Knut och Alice Wallenbergs Stiftelse, Kungsträdgårdsgatan 8, 114 47 Stockholm, Sweden. *Telephone:* 22-19-00.

WALLENBERG, Marcus; Swedish banker; b. 5 Oct. 1899, Stockholm; s. of Marcus Wallenberg and Amalia Hagdahl; m. 1st Dorothy Helen MacKay 1923, one s. one d.; m. 2nd Baroness Marianne de Gerr of Leufsta 1936. Asst. Man. Stockholms Enskilda Bank 1925, Deputy Man. Dir. 1927-46, Man. Dir. 1946-58, Vice-Chair. 1958-69, Chair. 1969-71; Chair Skandinaviska Enskilda Banken 1972-76, Hon. Chair. 1976-; Swedish Del. trade negotiations with Great Britain 1939-43, Finland 1940-44, and Great Britain and U.S.A. 1943-44; co-founder and Chair. ADELA Investment Co. S.A. 1964-67, and Chair. and Dir. of many Swedish and foreign companies; Chair. Swedish Banks Assn. 1949-51, 1955-57, Industrial Inst. for Econ. and Social Research 1950-75, Hon. Chair. 1975-; Chair. Stora Kopparberg; Vice-Chair. and Chair. Fed of Swedish Industries 1959-64; Chair. Council of European Industrial Feds. 1960-63, Business and Industrial Advisory Cttee. to OECD 1962-64; Chair. Swedish Nat. Cttee. Int. Chamber of Commerce 1951-64, Hon. Chair. 1964-76; Pres. Int. Chamber of Commerce 1965-67; Co-Chair. ICC-UN/GATT Econ. Consultative Cttee. 1969-71; mem. of Board, Knut and Alice Wallenberg Foundation, Nobel Foundation 1968-76; Hon. Paramount Chief of Sannequilie Mah Chiefdom, Liberia; Dr. h.c. (Royal Inst. of Tech., Stockholm and Stockholm School of Econ.). *Leisure interests:* tennis, yachting, shooting. *Address:* Skandinaviska Enskilda Banken, Kungsträdgårdsgatan 8, Stockholm 16, Sweden. *Telephone:* 08/22-19-00.

WALLER, Ivar, PH.D.; Swedish physicist; b. 11 June 1898, Flen; s. of Dir. Erik Waller and Signe Frigell; m. Irène J. L. Glucksmann 1932; ed. Uppsala Univ. Lecturer Uppsala Univ. 1925, Prof. and Dir. Inst. for Theoretical Physics 1934-64, Emer. 1964-; mem. Nobel Prize Cttee. for Physics 1945-72; Consultant Swedish Atomic Energy Co.; mem. Swedish Acad of Sciences, Reg. Soc. Uppsala, Royal Physiographical Soc. Lund, Det Norske Videnskapsakademie, Oslo; Dr. h.c. (Leiden) 1965. *Publications:* Theoretische Studien zur Interferenz und Dispersionstheorie der Röntgenstrahlen 1925, various papers. *Leisure interests:* skiing, travelling. *Address:* Tradgardsgatan 10, S-75220 Uppsala, Sweden (Home). *Telephone:* 018-136075 (Home).

WALLER, William; American politician; b. 21 Oct. 1926; ed. Memphis State Univ. and Univ. of Mississippi. mem. law firm, Waller & Fox 1952-72; Gov. of Miss. 1972-76; leader of several trade missions 1972-75; Chair. Tennessee-Tombigbee Waterway Devt. Authority, private law practice 1976-; Co-Chair. for States of Appalachian Regional Comm.; Nat. Chair. for State Govs. in Payroll Savings Cttee. of Treasury Dept.; mem. Exec. Cttee. of Nat. Govs. Conf. 1974; Democrat. *Address:* 1036 First National Bank Building, P.O. Box 4, Jackson, Miss. 39205, U.S.A.

WALLING, Cheves (Thomson), PH.D.; American professor of chemistry; b. 28 Feb. 1916, Evanston, Illinois; s. of Willoughby George Walling and Frederika Christina Haskell; m. Jane Ann Wilson 1940; one s. four d.; ed. Harvard Univ. and Univ. of Chicago; Research chemist, E. I. Du Pont de Nemours and Co. 1939-43, U.S. Rubber Co. 1943-49; Tech. Aide, Office of Scientific Research and Devt. 1945; Research Supervisor, Lever Bros. Co. 1949-52; Prof. of Chem., Columbia Univ. 1952-70; Chair. Dept. of Chem., 1963-66; Distinguished Prof. of Chem., Univ. of Utah 1970-; Ed. Journal of the American Soc. 1975-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences. *Publications:* numerous research publications; Free Radicals in Solution 1957. *Leisure interests:* skiing, sailing, photography, hiking. *Address:* Department of Chemistry, Univ. of Utah, Salt Lake City, Utah, 84112 (Office); 2784 Blue Spruce Drive, Salt Lake City, Utah 84117, U.S.A. (Home). *Telephone:* (801) 581-8336 (Office); (801) 277-7565 (Home).

WALLIS, Sir Barnes (Neville), Kt., C.B.E., F.R.S., F.I.C.E.; British aeronautical engineer; b. 26 Sept. 1887, Ripley, Derbyshire; s. of Dr. and Mrs. C. Wallis; m. Mary F. Bloxam 1925; two s. two d.; ed. Christ's Hospital; trained as Marine Engineer with J. S. White and Co. Ltd.; Asst. Chief Designer, Vickers Ltd. 1913-15; Army and R.N. A.S. 1915; Chief Designer, Airship Dept., Vickers Ltd. 1916-21; Chief Engineer, Airship Guarantee Co. (responsible for design and construction of R.100) 1923-30; Chief Designer, Structures, Vickers Aviation Ltd. 1930-37; Asst. Chief Designer, Vickers-Armstrongs Ltd., Aviation Section 1937-45; Chief of Dept. of Aeronautical Research and Devt. British Aircraft Corpn. Ltd., Weybridge Div. 1945-71; invented geodetic construction; designed Wellington bomber; designed "skipping bomb" used to burst Moehne and Eder dams, also Grand Slam and other bombs; invented "swing-wing" aircraft in which flight is controlled by varying the geometry of the flying surfaces; Royal Designer for industry; Silver Medal 1928, 1937; Ewing Medal, I.C.E. 1945; Founder's Medal, Air League 1962; Albert Medal of Royal Soc. 1968; Kelvin Gold Medal, Inst. of Civil Engineers 1968; Royal Soc. Royal Medal 1975; Hon. Fellow, Churchill Coll., Cambridge, Inst. of Science & Tech., Univ. of Manchester; Senior Fellow, Royal Coll. of Art; Hon. D.Sc. (Bristol, London, Cambridge, Loughborough, Oxford); Hon. M.I.M.E., F.S.E., F.R.Ae.S. *Leisure interests:* reading, gardening, walking and many other interests. *Address:* White Hill House, Effingham, Surrey, England. *Telephone:* 01-259 52027.

WALLS, Gen. George Peter, M.B.E.; Rhodesian army officer; b. 28 July 1926, Salisbury; ed. Plumtree School, Royal Mil. Acad., Sandhurst, and Camberley Staff Coll., U.K.; enlisted in Southern Rhodesian Army 1944; commissioned into the Black Watch (Royal Highland Regt.), British Army 1946; attested back to Southern Rhodesian Perm. Staff Corps 1948, commissioned 1949; Commdr. C. Squadron, 22nd Special Air Service in Malaya 1951-53; Officer Commdg. Tactical Wing, later Chief Instructor, School of Infantry 1954-56; Co. Commdr. Northern Rhodesian Regt. 1956-59; Brigade Maj. Copperbelt Area and later N. Rhodesia District 1961-62; Adjutant-Gen. Rhodesian Army 1962-64; C.O. 1st Bn. Rhodesian Light Infantry 1964-67; Commdr. 2nd Brigade 1967-68; Chief of Staff, Rhodesian Army 1968-72, Commdr. 1972-77; Commdr. Combined Operations March 1977-; Grand Officer of the Legion of Merit, Defence Cross for Distinguished Service. *Address:* Combined Operations Headquarters, Milton Buildings, Private Bag 7700, Causeway, Salisbury, Zimbabwe Rhodesia.

WALSER, Martin, DR. PHIL.; German writer; b. 24 March 1927, Wasserburg/Bodensee; s. of Martin Walser and Augusta Schmid; m. Käthe Jehle 1950; four d.; ed. Theologisch-Philosophische Hochschule, Regensburg, and Univ. of Tübingen. writer 1951-; Group 47 Prize 1955, Hermann-Hesse Prize 1957, Gerhart-Hauptman Prize 1962, Schiller Prize 1965. *Publications:* short stories: Ein Flugzeug über dem Haus 1955, Lügengeschichten 1964; novels: Ehen in Philippsburg 1957, Halbzeit 1960, Das Einhorn 1966, Fiction 1970, Die Gallistl'sche Krankheit 1972, Der Sturz 1973, Jenseits der Liebe 1976, Ein fliehendes Pferd 1978, Seelenarbeit 1979; plays: Der Abstecher 1961, Eiche und Angora 1962, Überlebensgross Herr Krott 1963, Der Schwarze Schwan 1964, Die Zimmerschlacht 1967, Ein Kinderspiel 1970, Das Sauspiel 1975; essays: Beschreibung einer Form, Versuch über Franz Kafka 1961, Erfahrungen und Leseerfahrungen 1965, Heimatkunde 1968, Wie und wovon handelt Literatur 1973 Wer ist ein Schriftsteller 1978; poems: Der Grund zur Freude 1978. *Address:* 777 Überlingen-Nussdorf, Zum Hecht 36, Federal Republic of Germany. *Telephone:* (07551) 4131.

WALSH, Sir Alan, Kt., M.SC.TECH., D.SC., F.INST.P., F.A.I.P., F.A.A., F.R.S.; British research physicist; b. 19 Dec. 1916, Darwen, Lancs.; s. of Thomas Haworth Walsh and Betsy Alice Robinson; m. Audrey Dale Hutchinson 1949; two s.; ed. Darwen Grammar School and Manchester Univ.; at British Non-Ferrous Metals Research Assn. 1939-46; seconded to Ministry of Aircraft Production 1943; joined Commonwealth Scientific and Industrial Research Org. (CSIRO), Australia 1946, Asst. Chief of Div. of Chemical Physics, CSIRO 1961-76; Consultant Perkin-Elmer Corpn., Norwalk, U.S.A. 1977-; Hon mem. Soc. for Analytical Chem., Royal Soc., of NZ.; Foreign mem Royal Acad. of Sciences, Stockholm; Pres. Australian Inst.

of Physics 1968-69; Hon. D.Sc. (Monash); Hon. Research Fellow, Monash Univ.; Hon. Fellow, Chemical Soc., London 1972-; Torbern Bergman Memorial Lecturer, Swedish Chem. Soc. 1976; Britannica Australia Science Award 1966; Royal Soc. of Victoria Medal 1969; Talanta Gold Medal 1969; Maurice Hasler Award, Soc. for Applied Spectroscopy (U.S.A.) 1972; James Cook Medal, Royal Soc. of N.S.W. 1976; Royal Medal of Royal Soc. 1976; John Scott Award (City of Philadelphia) 1978. *Publications:* numerous papers in scientific journals. *Leisure interests:* gardening, golf. *Address:* 11 Dendy Street, Brighton, Victoria 3186, Australia (Home). *Telephone:* 92-4897.

WALSH, Prof. Don, PH.D., M.S., M.A., B.S.; American university administrator and fmr. naval officer; b. 1931; Berkeley, Calif.; s. of J. Don and Marta G. Walsh; m. Joan A. Betzmer 1962; one s. one d.; ed. San Diego State Coll., Texas A. & M. Univ. and U.S. Naval Acad.; entered navy 1950, submarine service 1956; became Officer-in-Charge Submersible Test Group and Bathyscaphe Trieste 1959, made record dive to 35,780 ft., Jan. 1960; Submarine service 1962-64; at Dept. of Oceanography, Texas A. & M. Univ. 1965-68; commanded submarine Bashaw 1968-69; Scientific Liaison Officer Submarine Devt. Group One 1969-70; Special Asst. to Asst. Sec. of the Navy for Research and Devt., Washington, D.C. 1970-73; Research Fellow, Woodrow Wilson Int. Center for Scholars 1973-74; Deputy Dir. Naval Labs. 1974-75; retd. from navy with rank of Capt. 1975; Dir. Inst. for Marine and Coastal Studies and Prof. of Ocean Eng., Univ. of Southern Calif. 1975-; Pres. Int. Maritime Inc.; mem. American Geophysical Union, American Assen for Advancement of Science, U.S. Naval Inst., etc.; Vice-Pres. Marine Tech. Soc.; Ed. Marine Tech. Soc. Journal; Fellow Explorers Club; Legion of Merit; Gold Medals from City of Trieste and Chicago Socs. and other awards. *Publications:* author of 70 papers, articles, etc. on marine subjects; ed. and contrib Law of the Sea: Issues in Ocean Resources Management; An Introduction to Ocean Engineering 1979. *Leisure interests:* writing, travel, sailing and flying. *Address:* c/o Institute for Marine and Coastal Studies, University of Southern California (AHF-252), University Park, Los Angeles, Calif. 90007 (Office); 1337 Via Zumaya, Palos Verdes Estates, Calif. 90274, U.S.A. (Home). *Telephone:* (213) 741-6104; (213) 541-8397 (Home).

WALSTON, Baron (Life Peer), cr. 1961, of Newton, Cambridge; **Henry David Leonard George Walston,** C.V.O., J.P., M.A.; British farmer and politician; b. 6 June 1912, Cambridge; s. of Sir Charles Walston and Florence Einstein; m. Catherine Macdonald 1935 (died 1978); three s. two d.; ed. Eton and King's Coll., Cambridge. Research Fellow in Bacteriology, Harvard Univ. 1934-35; mem. Hunts. War Agricultural Cttee. 1939-45, Cambs. Agricultural Cttee. 1948-50; Dir. of Agric. British Zone of Germany 1946-47; Agricultural Adviser for Germany to Foreign Office 1947-48; Counsellor of Duchy of Lancaster 1948-54; Trustee Rural Industries Bureau; mem. Home Office Cttee. on Experiments on Living Animals 1963-64; Deputy Chair. Council of Royal Commonwealth Soc. April 1963-64; Parl. Under-Sec. of State for Foreign Affairs 1964-67; Special Amb. of British Govt. at Presidential Inaugurations in Mexico 1964, Colombia 1966, Liberia 1967; Parl. Sec., Board of Trade Jan-Aug. 1967; Crown Estate Commr. 1967-75; Chair. Inst. of Race Relations 1968-71; Chair. East Anglia Regional Econ. Planning Council 1970-, Great Britain/East Europe Centre 1974-, Centre of East Anglian Studies, Univ. of East Anglia 1975-, Harwich Harbour Conservancy Board 1976-; Del. to Council of Europe 1971-74; mem. European Parl. 1975-76, Commonwealth Devt. Corpn. 1975-; Labour. *Publications:* From Forces to Farming 1944, Our Daily Bread 1952, No More Bread 1954, Life on the Land (with John Mackie) 1954, Land Nationalisation, For and Against 1958, Agriculture under Communism 1961, The Farmer and Europe 1962, The Farm Gate to Brussels 1970, Dealing with Hunger 1976. *Leisure interest:* shooting, sailing. *Address:* Town's End Spring, Thriplow, Royston, Herts.; A14 Albany, Piccadilly, London, W.1, England; Marquis Estates, St. Lucia, West Indies. *Telephone:* Fowlmere (Herts.) 388.

WALTARI, Mika; Finnish writer; b. 19 Sept. 1908, Helsinki; s. of Toimi Waltari and Olga Johansson; m. Marjatte Luukonen 1931; one d.; ed. Helsinki Univ. Literary Critic Maaseudun Tulevaisuus 1932-42, Finnish Radio 1937-38; Ed. Suomen Kuvalehti 1936-38, State Information Office 1939-40, 1941-44; mem. Finnish Acad. 1957; D.Phil. h.c. (Turku) 1970; Pro Finlandia award 1952, Commdr. Finnish Lion 1960, etc. *Publications:* The Egyptian 1949, Michael the Finn 1950, The Sultan's Renegade 1951, The Dark Angel 1953, A Nail-Merchant at Nightfall 1955, Moonscape 1956, The Etruscan 1956, The Tongue of Fire 1958, The Secret of the Kingdom 1961, The Tree of Dreams 1965, The Roman 1966. *Address:* Tunturikatu 13, Helsinki 10, Finland.

WALTER, The Hon. Sir. Harold Edward, Kt.; Mauritian lawyer and politician; b. 17 April 1920, Quartier Militaire, Moka; ed. Royal Coll., Curepipe; called to the Bar, Lincoln's Inn, London 1951; practised at Bar, Mauritius 1951-59 Village Councillor 1952, Municipal Councillor 1956, mem. Legis. Council (now Legis Assembly) for Mahebourg 1959-; Minister of Works and Communications 1959-65, of Health 1965-67, of Labour 1967-71, of Health 1971-76, of External Affairs, Tourism and Emigration June 1976-; Chair. Commonwealth Medical Conf. 1972-74; Pres. World Health Org. 1976-77; Chair. Council of Ministers, Org. of African Unity 1976-77; army service 1939-48; Pres. YMCA 1955; mem. Mauritius Labour Party. *Address:* La Rocca, Eau Coulée, Mauritius.

WALTERS, Barbara, B.A.; American television broadcaster; b. 25 Sept. 1931, Brookline, Mass.; d. of Lou Walters, impresario, and Dena (Selett) Walters; m. Lee Guber 1963; one adopted d.; ed. Sarah Lawrence Coll., Bronxville, N.Y.; fmr. writer and producer with WNBC TV, then with Station WP1X and CBS TV morning broadcasts; Producer, NBC TV; joined Today programme, NBC TV 1961 as ■ writer, then gen. reporter, regular panel mem. 1963-74, Co-Host 1974-76; Moderator, Not for Women Only (syndicated TV programme) for five years; Corresp., ABC News, Co-Anchor of evening news programme 1976-78; Hon. Chair. Nat. Assen. for Help for Retarded Children 1970; Hon. L.H.D. (Ohio State Univ. and Marymount Coll., New York) 1975; Broadcaster of the Year, Int. Radio and TV Soc. 1975, Emmy Award of Nat. Acad. of TV Arts and Sciences 1975. *Publications:* How to Talk with Practically Anybody about Practically Anything 1970; contributions to Good Housekeeping, Family Weekly, Reader's Digest. *Address:* c/o ABC News, 1330 Avenue of the Americas, New York, N.Y. 10019, U.S.A.

WALTERS, Peter Ingram, B.COM.; British oil executive; b. 11 March 1931, Birmingham; s. of Stephen and Edna F. (née Redgate) Walters; m. Patricia Anne Tulloch 1960; two s. one. d.; ed. King Edward's School, Birmingham and Univ. of Birmingham. served R.A.S.C. 1952-54; joined BP 1954, Vice-Pres. BP North America 1965-67, Gen. Man. Supply and Devt. 1969-70, Regional Dir. Western Hemisphere 1971-72; Dir. BP Trading Ltd. 1971-73, BP Chemicals Int. 1972; Man. Dir. The British Petroleum Co. Ltd. Feb. 1973-; Vice-Pres. Gen. Council of British Shipping 1974-76, Pres. 1977-78; Pres. Soc. of Chemical Industry 1978-79; Dir. Post Office 1978-; mem. of Council, Industrial Soc. *Leisure interests:* gold, gardening. *Address:* The British Petroleum Company Ltd., Britannic House, London E.C.2, England. *Telephone:* 01-920 6091.

WALTERS, Sir Roger Talbot, K.B.E., F.R.I.B.A., F.I.STRUCT.E.; British architect; b. 31 March 1917, Chorley Wood, Herts.; s. of Alfred Bernard Walters; ed. Oundle School, Architectural Assen. School of Architecture, Liverpool Univ.; entered office of Sir. E. Owen Williams 1936; Directorate of Constructional Design, Ministry of Works 1941-43; served in Royal Engineers 1943-46; Architect, Timber Devt. Assen. 1946-49; Principal Asst. Architect, E. Region, British Railways 1949-59; Chief Architect (Devt.), Directorate of Works, War Office 1959-62; Deputy Dir.-Gen. Research and Devt., Ministry of Public Bldgs. and Works 1962-67, Dir.-Gen. for Production 1967-69, Controller Gen. 1969-71; Architect and Controller of Construction Services, Greater London Council 1971-78; Hon. F.A.I.A. *Address:* 46 Princess Road, London, N.W.1, England (Home). *Telephone:* 01-722 3740.

WALTERS, Maj.-Gen. Vernon Anthony; American army officer; b. 3 Jan. 1917, New York City; s. of Frederick J. and Laura (O'Connor) Walters; ed. St. Louis Gonzaga School, Paris, Stonyhurst Coll., England. Second Lieut. U.S. Army 1941, rising to rank of Lieut.-Gen., served N. Africa, Italy; Mil. Attaché Brazil 1945-48; Mil. Attaché at large, Paris 1948-50; Asst. to Deputy Chief of Staff SHAPE, Paris 1951-56; staff asst. to Pres. Eisenhower 1956-60; mem. NATO Standing group 1956-60; Army Attaché, U.S. Embassy, Rome 1960-62; Defence Attaché, U.S. Embassy, Rio de Janeiro 1962-67; served Viet-Nam 1967; Defence Attaché, U.S. Embassy, Paris 1967-72; Deputy Dir. CIA 1972-76; interpreter to Pres. Truman, Eisenhower, Nixon; Distinguished Service Medal with oak leaf cluster, Distinguished Intelligence Medal, Legion of Merit with oak leaf cluster, Bronze Star, Air Medal (U.S.), Army Commendation, Commdr. Légion d'honneur, Croix de guerre with palms, War Cross (Brazil), Bronze Medal Valor (Italy). *Address:* 2295 S. Ocean Blvd., Palm Beach, Fla. 33480, U.S.A.

WALTHER, Gebhardt von; German diplomatist; b. 19 Dec. 1902, Düsseldorf; m. Anneliese Gierlichs 1953; one s.; ed. Univs. of Cologne and Göttingen; Attaché, Foreign Office, Berlin 1929-32; Vice-Consul, Beirut 1932-34; Consulate-Gen., Memel 1934-36; Sec. Moscow 1936-41; Consul Tripoli 1941-43; Counsellor, Ankara 1943-45; worked in German machine tool industry 1945-51; Minister, Paris 1951-56; Amb. to Mexico 1956-58, to Brazil 1958-59; Perm.

Rep. to NATO 1959-62; Amb. to Turkey 1962-66, to U.S.S.R. 1966-68; Exec. Vice-Pres. Deutsche Gesellschaft für Auswärtige Politik e.V. 1968-78. *Leisure interest:* golf. *Address:* 5000 Köln 50, Oberbuschweg 214, Federal Republic of Germany (Home). *Telephone:* Wesseling 64900 (Home).

WALTHER, Mrs. Rosel; German politician; b. 12 Jan. 1928, Landsberg; m.; two c.; Deputy to People's Chamber (Volkskammer), G.D.R. 1950-58, 1967-, Deputy Chair. 1967-71, First Deputy Chair. Constitutional and Legal Cttee. 1971-; mem. Council of State 1971-; Sec. Main Cttee. Nat. Democratic Party of Germany (NDPD) 1972-; mem. World Peace Council 1974-. *Address:* Staatsrat, Volkskammer, Berlin, German Democratic Republic.

WALTON, Ernest Thomas Sinton, M.A., M.SC., PH.D.; Irish university professor; b. 6 Oct. 1903, Dungarvan, Co. Waterford; s. of Rev. John A. Walton; m. Winifred I. Wilson 1934; two s. two d.; ed. Methodist Coll., Belfast, Trinity Coll., Dublin, and Cambridge Univ. Fellow Trinity Coll. Dublin 1934-74, Fellow Emer. 1974-, Erasmus Smith's Prof. of Natural and Experimental Philosophy 1946-74; awarded Hughes Medal, Royal Soc. (jointly with Sir John Cockcroft) 1938; Nobel Prize in Physics (jointly with Sir John Cockcroft) 1951, for pioneer work in the field of nuclear physics: Hon. D.Sc. (Belfast) 1959, (Gustavus Adolphus Coll.,) 1975. *Leisure interest:* gardening. *Address:* 26 St. Kevin's Park, Dartry Road, Dublin 6, Ireland. *Telephone:* 971 328.

WALTON, Sir William Turner, Kt., O.M.; British composer; b. 29 March 1902, Oldham; m. Susana Gil de Halton 1948; ed. Cathedral School, and Christ Church, Oxford. Gold Medal Royal Philharmonic Soc. 1947; Hon. Mus. Dr. (Oxford, Cambridge, London, Durham, Manchester, Trinity Coll., Dublin, Univ. of Ireland, Cork, Sussex); Hon. F.R.C.M., F.R.A.M,.; Hon. mem. American Acad. and Inst. of Arts and Letters 1978; Musician of the Year 1977, Inc. Soc. of Musicians. *Works include:* Pianoforte Quartet (Carnegie award) 1918, String Quartet (unpublished) 1921, Façade (with Edith Sitwell) 1923 and 1926, Siesta for small orchestra 1926, Portsmouth Point 1926, Sinfonia Concertante for piano and orchestra 1928, Viola Concerto 1929, Belshazzar's Feast 1931, Three Songs for Soprano 1932, Symphony 1935, Crown Imperial (Coronation March) 1937, In Honour of The City of London 1937, Violin Concerto 1939, Music for Children 1940, Scapino (comedy overture) 1941, incidental music to film The Foreman Went to France 1942, to Gielgud production Macbeth 1942, to Olivier's Henry V 1944-45, Quest (ballet) 1942, String Quartet 1947, Hamlet (film) 1947, Violin Sonata 1949, Orb and Sceptre (Coronation March) 1953, Te Deum 1953, Troilus and Cressida 1954, Richard III (film music) 1955, Johannesburg Overture 1956, 'Cello Concerto 1956, Partita 1957, Anon in Love, Second Symphony 1960, Gloria 1961, A Song for a Lord Mayor's Table 1962, Variations on a Theme by Hindemith 1963, The Twelve (anthem) 1965, Missa Brevis 1966, The Bear 1967, Capriccio Burlesco 1968, Battle of Britain (film music) 1969, Improvisations on an Impromptu of Benjamin Britten 1969, Five Bagatelles for Guitar 1971, Magnificat and Nunc Dimittis 1972, Jubilate 1972, Sonata for String Orchestra 1972, Cantico del Sole 1974, Magnificat and Nunc Dimittis 1975, Varii Capricci 1976, Antiphon 1977, Façade 2 1978. *Address:* c/o Oxford University Press, Ely House, 37 Dover Street, London W1X 4AH, England.

WAN LI; Chinese government official; b. Szechuan. Vice-Minister of Building Construction 1952-56; Minister of Urban Construction 1956-58; Sec. CCP, Peking 1958-66; Vice-Mayor of Peking 1958-66; criticized and removed from office during Cultural Revolution 1967; Minister of Railways 1975-76, criticized and removed from office during Tienanmen incident, later reinstated 1976; First Sec. CCP Anhwei 1977-; mem. 11th Cen. Cttee CCP 1977. *Address:* People's Republic of China.

WANAMAKER, Sam; American actor and film and theatre director; b. 14 June 1919, Chicago, Ill.; s. of Maurice Wanamaker and Molly Bobele; m. Charlotte Holland 1940; three d.; ed. Drake Univ., Iowa, and Goodman Theatres, Chicago. Dir. Jewish People's Inst., Chicago 1930-40; radio acting New York 1940-41; acted in Cafe Crown 1941 and Counterattack 1942, Broadway; U.S. Army 1942-45; actor and dir. 1946-; Artistic Dir. New Shakespeare Theatre, Liverpool 1957-59; three-picture contract with M.G.M. 1968; acted in and directed Joan of Lorraine (Broadway) 1946; acted in My Girl Tisa 1947, Christ in Concrete 1949, Denning Drives North 1951; directed Gentlemen from Athens 1948, Goodbye my Fancy 1949, Caesar and Cleopatra, Revival of Gardsman; acted in and/or directed Winter Journey, The Shrike, The Rainmaker, Threepenny Opera, The Big Kinfe, A Hatful of Rain, A View from the Bridge, Reclining Figure, Othello, The Rose Tattoo 1959, A Far Country 1961; acted in film Taras Bulba 1962; directed on Broadway plays Children from Their Games (Irwin Shaw) 1962, Case of Libel (Louis Nizer) 1963, A Murderer Among Us (Loius Nizer) 1963; directed at Covent Garden opera King Priam (Tippett) 1963, Forza del Destino (Verdi) 1963; acted in film Those Magnificent Men in their Flying Machines 1964; directed and acted in Macbeth, Goodman Theatre, Chicago 1964; acted in film The Spy Who Came in From the Cold 1965; directed or acted in TV films The Defenders, For the People, Gunsmoke, The Baron 1962-66; acted in and/or directed (TV) The Day the Fish Came Out 1966, Warning Shot 1966, and TV films Custer, Hawk, Lassiter, Cimmarron Strip, Court Martial, The Champions, Lancer 1966-67; director The Chinese Visitor 1968, The File of the Golden Goose 1968, The Executioner 1969, Catlow 1969-70; founder Globe Playhouse Trust and World Centre for Shakespeare Studies 1970-71; producer War and Peace (opening production Sydney Opera House) 1973, John Player Season at Bankside Globe Playhouse 1972-73, Shakespeare Birthday Celebrations Southwark Cathedral 1972-73; acted in films The Law, The Spiral Staircase, produced Dickens, Shakespeare and Bankside Summer Festivals 1974, acted in film The Sell Out, directed film Sinbad and the Eye of the Tiger 1975, acted in film The Voyage of the Damned 1975; Billy Jack Goes to Washington, Billion Dollar Bubble, Impossible Dream (BBC), Blind Love (Granada TV) 1976; directed film Colombo (NBC), opera Ice Break (Tippett), Covent Garden, acted in film The Holocaust (NBC TV), I Murder, Rafferty 1977; acted in film Death on the Nile 1978. *Leisure interest:* art. *Address:* The Globe Playhouse, 40 Bankside, The Liberty of the Clink, Southwark, London, S.E.1, England.

WANCHOO, Kailas Nath; Indian judge; b. 25 Feb. 1903, Mandsaur (Madhya Pradesh); s. of Pandit Pirthi Nath and Bishanpati Wanchoo; m. Mohini (d. of Pandit Brijmohau Nath Zutshi) 1928; one s. two d.; ed. Pandit Pirthi Nath High School, Kanpur, Muir Central Coll., Allahabad, and Wadham Coll., Oxford. Magistrate and Judge, United Provinces (later Uttar Pradesh) 1926-51; Judge, Allahabad High Court 1947-51; Chief Justice, Rajasthan High Court 1951-58; Judge, Supreme Court of India 1958-67; Chief Justice of India 1967-68; Chair. Railway Accidents Inquiry Cttee., Ministry of Railways 1968-69; Chair. Board of Arbitration (JCM) Ministry of Labour 1968-75, Direct Taxes Inquiry Cttee., Ministry of Finance 1970-71, Comm. of Inquiry into Corruption Charges, W. Bengal 1974-75; Kashmiri Pandit Benefit Trust, New Delhi; Hon. LL.D. (Agra). *Leisure interests:* gardening, reading. *Address:* 6 Friends Colony, New Delhi 14, India. *Telephone:* 630504 (Home).

WANCHOO, Niranjan Nath, O.B.E., M.A.; Indian fmr. state governor and civil servant; b. 1 May 1910, Satna; ed. Punjab Univ., Lahore, Cambridge Univ., Imperial Defence Coll., London. Dir.-Gen. of Ordnance Factories 1948; Controller-Gen. of Defence Production 1956-57; mem. Univ. Grants Comm. 1958-61; Chair. Nat. Productivity Council 1967-72; mem. Planning Board, Govt. Madhya Pradesh 1972-73; Gov. of Kerala 1973-77, of Madhya Pradesh 1977-78. *Address:* 43 Anand Lok, New Delhi, India.

WANDEL, Paul, DR. H.C.; German journalist and diplomatist; b. 16 Feb. 1905, Mannheim. Engineer; mem. Communist Party 1923; Pres. Communist Group, Mannheim City Council; emigrated to U.S.S.R. 1933-45; mem. KPD 1945, mem. SED 1946; Chief Ed. Communist Deutsche Volks-Zeitung after 1945; Minister of Educ. 1949-52; Sec. in Secr. of Cen. Cttee. of SED for Educ. and Culture 1953-57; Amb. to People's Repub. of China 1958-60; Deputy Minister of Foreign Affairs 1960-63; Pres. Liga für Völkerfreundschaft 1964-; Vaterländische Verdienstorden in Gold, Order of Great Fatherland War 2nd class (U.S.S.R.), and other decorations. *Address:* 108 Berlin, Thälmannplatz 8-9 German Democratic Republic.

WANG CHEN; Chinese government official; b. 1909, Liuyang, Hunan. Regimental Political Commissar 1930; Alt. mem. 7th Cen. Cttee. of CCP 1945; Commdr. of 1st Army Corps, 1st Field Army, People's Liberation Army 1949; Commdr. Sinkiang Mil. Region, PLA 1950; Minister of State Farms and Land Reclamation 1956; mem. 8th Cen. Cttee. of CCP 1956, 9th Cen. Cttee. 1969, 10th Cen. Cttee. 1973; Vice-Premier of State Council 1975; mem. Politburo of Cen. Cttee. of CCP 1978-; mem 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

WANG CHIA-TAO; Chinese party official. Major-General, Commdr. Heilunkiang Mil. District, People's Liberation Army 1964-76, Chao Hsien-shun 1976-; Vice-Chair. Heilungkiang Revolutionary Cttee. 1967, Chair. 1970; Alt. mem. 9th Cen. Cttee. of CCP 1969; First Sec. CCP Heilungkiang 1971; Alt. mem. 10th Cen. Cttee. of CCP 1973. *Address:* People's Republic of China.

WANG CHIEN; Chinese party official. Deputy Sec.-Gen. Rural Work Dept. CCP Cen. Cttee. 1955; visited Eastern Europe 1955; Sec. CCP Shansi 1957, Second Sec. 1966-67, Sec. 1973, First Sec. 1975-; Gov. of Shansi 1965-67; Alt. mem. 10th Cen. Cttee. CCP

1973; Vice-Chair. Shansi Revolutionary Cttee. 1973, Chair. 1975-; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

WANG EN-MAO; Chinese party official; b. 1912, Kiangsi. Political Commissar, 1st Field Army PLA 1949; First Sec. CCP Sinkiang 1954-68; Political Commissar, Sinkiang Mil. Region, PLA 1954-68; Commdr. Sinkiang Mil. Region, PLA 1956-68; Sec. Northwest Bureau CCP 1965; Vice-Chair. Sinkiang Revolutionary Cttee. 1968; First Sec. CCP Kirin and Chair. Kirin Revolutionary Cttee. 1977-;First Political Commissar Kirin PLA Mil. District; alt. mem. 8th Cen. Cttee. CCP 1956, mem. 8th Cen. Cttee. 1958, alt. mem. 9th Cen. Cttee. 1969, mem. 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

WANG FENG; Chinese government official; b. Shensi Province. Commdr. Security Force, Shensi-Kansu-Ninghsia Border Region and concurrently Commdr., Lushan Mil. Region; Political Commissar 38th Army PLA 1946; Dir. United Front Dept. N.W. Bureau CCP Cen. Cttee. 1949-52; Chair. Nationalities Affairs Cttee. N.W. Mil and Admin. Cttee. 1950-52; mem. Land Reform Cttee. N.W. Mil. and Admin. Cttee. 1951; Pres. N.W. Nationalities Coll. 1952; mem. Political and Legal Cttee. N.W. Mil. and Admin. Cttee. 1952; Vice-Chair. Nat. Affairs Cttee., Govt Admin. Council 1952-54; Vice-Chair. Nat. Affairs Cttee., State Council 1954; mem. N.W. Admin. Cttee. 1953-54; Deputy for Tsinghai 1st NPC 1954; Deputy Dir., United Front Dept. CCP Cen. Cttee. 1955; mem. Standing Cttee. 1st NPC 1958-59; alt. mem. CCP 8th Cen. Cttee. 1958; First Sec. CCP Ninghsia Provincial Cttee. 1958-61; mem. Nationalities Cttee. 2nd NPC 1959-64; First Sec. CCP Kansu Provincial Cttee. 1961-66; mem. Standing Cttee. 3rd NPC 1965; Sec. CCP N.W. Bureau 1965-68; mem. Pres., 11th Nat. Congress CCP 1977-; mem. CCP 11th Cen. Cttee. 1977-; First Sec. Sinkiang Prov. CCP Cttee. 1978-; Chair. Sinkiang CCP Revolutionary Cttee. 1978-; First Political Commissar PLA Sinkiang Mil. Region 1978-. *Address:* People's Republic of China.

WANG FU-CHIH; Chinese army official. Commander Shansi Mil. District PLA. *Address:* People's Republic of China.

WANG HUAI-HSIANG; Chinese party official. Political Commissar 3rd Field Army 1949; Deputy Political Commissar Kirin Mil. District, People's Liberation Army 1964; Chair. Kirin Revolutionary Cttee. 1968-77; mem. 9th Cen. Cttee. of CCP 1969; First Sec. CCP Kirin 1971-77; mem. 10th Cen. Cttee. of CCP 1973. *Address:* People's Republic of China.

WANG HUNG-KUN; Chinese party official; b. 1907, Hupeh. Battalion Commdr. 1930, Army Corps Commdr. 1949; Deputy Commdr. PLA Navy 1957, Political Commissar 1968-; mem. 9th Cen. Cttee. CCP 1969, 10th Cen. Cttee. 1973. *Address:* People's Republic of China.

WANG HUNG-WEN; Chinese fmr. party offical; b. 1937. Worker Shanghai No. 17 Cotton Textile Mill; Founded Shanghai Workers Revolutionary Rebel Gen. H.Q. during Cultural Revolution 1967; Vice-Chair. Shanghai Revolutionary Cttee. 1968; Sec. CCP Shanghai 1971; Political Commissar Shanghai Garrison District, People's Liberation Army 1972; Vice-Chair. CCP 1973-76; mem. Standing Cttee. of Politburo, CCP 1973-76; Vice-Chair. CCP Military Affairs Comm. 1975-76; arrested as mem. of "gang of four" Oct 1976. *Address:* People's Republic of China.

WANG JEN-CHUNG; Chinese government official; b. 1906, Hopeh. Chair. S. Hopeh Admin. Office 1941; mem., Chin-Chi-Lu-Yü Govt. Council; Dir. S. Hopeh Party Cttee. Propaganda Dept.; Head Tsinan Admin. Office 1948; Vice-Mayor, Wuhan 1952-54; Vice-Chair. Hupeh Finance and Econs. Cttee. 1950; mem. Central South Mil. and Admin. Cttee., Finance and Econs. Cttee. 1950-54; mem. Standing Cttee. Hupeh CCP Cttee. 1952; First Sec. Wuhan Cttee. 1953-54; First Sec. Hupeh CCP Prov. Cttee. 1954-66; Deputy for Wuhan to 1st NPC 1954; Mem. Hupeh Prov. People's Council 1955 (re-elected 1964); First Political Commissar Wuhan Mil. Region 1955-67; alt. mem. 8th CCP Cen. Cttee. 1958-68; Second Sec. Cen. South Bureau 1961-66; First Sec. Central South Bureau 1966-67; purged 1968; First Sec. Shensi CCP Prov. Cttee. 1978-; mem. CCP 11th Cen. Cttee. 1978-; Vice Premier State Council 1978-; Minister in Charge of the State Agricultural Comm 1979-. *Address:* People's Republic of China.

WANG KUO-CHAN; Chinese diplomatist; b. 1911. fmr. Deputy to Third Nat. People's Congress in Peking; fmr. Amb. to German Democratic Repub. and Poland; Pres. Chinese People's Assn. for Friendship with Foreign Countries; Amb. to Australia 1973-76. *Address:* c/o Ministry of Foreign Affairs, Peking, People's Republic of China.

WANG LEI; Chinese politician. fmr. municipal admin., Peking; Minister of Commerce Dec. 1977-Aug. 1978, Feb. 1979-. *Address:* People's Republic of China.

WANG LING, M.A., PH.D.; Chinese historian; b. 23 Dec. 1918, Nangtung, Kiang Su Province; s. of C. C. Wang; m. Ruth Burkitt 1961; two s.; ed. National Central Univ., China, and Trinity Coll., Cambridge. Junior Research Fellow, Inst. of History and Philology, Acad. Sinica 1941-44; Senior Lecturer, Nat. Fu-tan Univ. 1944-45, Assoc. Prof. 1945-46; Asst. to J. Needham, F.R.S., Cambridge Univ. 1946-57; Visiting Lecturer, Cambridge Univ. 1953; Sr. Lecturer Canberra Univ. Coll., Melbourne Univ. 1957-59; Assoc. Fellow, Nat. Acad. of Science, Acad. Sinica 1955-57; Senior Lecturer Univ. Coll., Australian Nat. Univ., Canberra 1960-61, Assoc. Prof. 1961-63; Professorial Fellow, Inst. of Advanced Studies, Australian Nat. Univ. 1963-; Visiting Prof. of Chinese Literature, Cornell Univ. 1965; Visiting Prof. of Chinese Classics, Wisconsin Univ. 1965-66; mem. Comm. for the History of the Social Relations of Science of the Int. Union for the History of Science 1948-56; corresp. mem. Int. Acad. of History of Science, Paris 1964-. *Publications:* Science and Civilisation in China (asst. to Dr. J. Needham, F.R.S.) Vol. I 1954, Vol. II 1956, Vol. III 1959, Vol. IVa 1962, Vol. IVb 1964, Vol. IVc 1971, Heavenly Clockwork (asst.to Dr. J. Needham) 1960, A Study on the Chiu Chang Suan Shu 1962. *Address:* Institute of Advanced Studies, Australian National University, Canberra, A.C.T. 2600, Australia. *Telephone:* Canberra 493171.

WANG LIU-SHENG; Chinese party official; Maj. Gen. People's Liberation Army, Shanghai 1964; Deputy Political Commissar Nanking Mil. Region, PLA 1966; Alt. mem. 9th Cen. Cttee. of CCP 1969; First Political Commissar Wuhan Mil. Region, PLA 1972; Second Sec. CCP Hupeh 1972; alt. mem. 10th Cen. Cttee. of CCP 1973, 11th Cen. Cttee. CCP 1977; Political Commissar PLA Eng. Corps 1976. *Address:* People's Republic of China.

WANG MENG; Chinese politician; Minister of Physical Culture and Sports 1971-74, 1977-; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

WANG PI-CH'ENG; Chinese army officer; b. 1912 Hunan; Deputy Commdr. Chekiang Mil. District, People's Liberation Army 1949, Commdr. 1951; Maj.-Gen. PLA 1955; Commdr. Shanghai Garrison District, PLA 1955-61; Deputy Commdr. Nanking Mil. Region, PLA 1961; Deputy Commdr. Kunming Mil. Region, PLA 1969, Commdr. 1972-79; Commdr. of Wuhan Mil. Region 1979-; Second Sec. CCP Yunnan 1971; First Vice-Chair. Yunnan Revolutionary Cttee. 1972; mem. 10th Cen. Cttee of CCP 1973, 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

WANG P'ING; Chinese government official; b. 1911, Kiangsi: Dir. Political Dept. 3rd Red Army Corps 1935; Chair. Mobilization Cttee. N. China Bureau 1937; Acting Chief, 29th Group CCP Section, Mil. Mediation Dept. 1946; Chair. Tatung Mil. Control Comm. 1949; Vice-Chair. Chahar 1949-52; Deputy Chief, Shansi-Hopeh-Chahar Sub-Del. to visit bases in N. China 1951; Dir., Cadres Dept., N. China Mil. Region 1953; attained rank of Gen. 1955; Deputy Political Commissar, Chinese People's Volunteers 1957; Political Commissar Chinese People's Volunteers 1957-58; Deputy for PLA to 2nd NPC 1959, (re-elected to 3rd NPC 1964); Political Commissar Nanking Mil. Region 1959; mem. Nat. Defence Council, 1959 (re-appointed 1965); mem. Pres. CCP 11th Cen. Cttee. 1977-; mem. CCP 11th Cen. Cttee. 1977-; Political Commissar PLA Gen. Logistics Dept. 1978-. *Address:* People's Republic of China.

WANG SHANG-YUNG; Chinese army officer; b. 1906, Shansi; Vice-Commdr. 359th Brigade, 120th Div. and concurrently Commdr. 4th Sub-Mil. Region, 1940; Commdr. 5th Sub-Region, Shansi-Suiyan Mil. Region 1940; Commdr. 3rd Army, 1st Field Army 1949; mem. Tsinghai Mil. Region 1949; mem. Tsinghai People's Govt. 1949-51; Vice-Chair. Financial and Economic Cttee., Tsinghai People's Govt. 1950-51; Dir., War Strategy Dept., People's Revolutionary Mil. Council 1952-54; Lieut.-Gen. 1955; alt. mem. CCP 8th Cen. Cttee. 1958; Dir., War Strategy Dept., Gen. Office of Chiefs of Staff PLA 1959-66; branded an anti-party element 1966; resumed activities 1974; alt. mem. CCP 11th Cen. Cttee. 1977-; Deputy Chief of Gen. Staff, PLA 1978-; *Address:* People's Republic of China.

WANG TUNG-HSING; Chinese party official; bodyguard of Mao Tse-tung 1947; Capt. of Guards of Cen. Cttee., CCP 1947-49; Capt. of Guards, Gen. Admin. Council 1949-54; Vice-Minister of Public Security 1955-58, 1962-; Vice-Gov. of Kiangsi 1958-60; Sec. CCP Kiangsi 1958-60; mem. Cen. Cultural Revolution Group 1967; Dir. Admin. Office of Cen. Cttee., CCP 1969; Alt. mem. Politburo, 9th Cen. Cttee. of CCP 1969; mem. Politburo, 10th Cen. Cttee. of CCP

1973, Politburo 11th Cen. Cttee. CCP 1977; mem. Standing Cttee. 1977; Vice-Chair. CCP 1977; Exec. Chair. Pres. 5th Nat. People's Congress 1978. *Address:* People's Republic of China.

WANG TZU-KANG; Chinese politician; Minister of Posts and Telecommunications 1978-79. *Address:* People's Republic of China.

WANG YANG; Chinese government official; Minister of Seventh Ministry of Machine Bldg. 1975-78. *Address:* People's Republic of China.

WANG YI; Chinese army officer. Maj.-Gen. People's Liberation Army 1964; Commdr. Tientsin Garrison District, PLA 1969-; Vice-Chair. Tientsin Revolutionary Cttee. 1970; Sec. CCP Tientsin 1971; mem. Nat. Cttee. 5th Nat. People's Congress 1978. *Address:* People's Republic of China.

WANGCHUK, Jigme Singye; King (Druk Gyalpo) of Bhutan; b. 11 Nov. 1955; s. of late Druk Gyalpo Jigme Dorji Wangchuk and of Queen Ashi Kesang; ed. North Point, Darjeeling, Ugyuen Wangchuk Acad., Paro, also in England; Crown Prince March 1972; succeeded to throne 24 July 1972, Crowned 2 June 1974; Chair. Planning Comm. of Bhutan March 1972-; C.-in-C. of Armed Forces. *Address:* Royal Palace, Thimphu, Bhutan.

WANGENSTEEN, Owen Harding, B.A., B.S., M.D., PH.D.; American surgeon; b. 21 Sept. 1898, Lake Park, Minn.; s. of Owen Wangensteen (Norwegian) and Hannah Hanson; m. 1st Helen C. Griffin 1923, 2nd Sarah Ann Davidson 1954; two s. one d.; ed. Univ. of Minnesota. Intern Univ. Hospital Minneapolis 1922; Fellow in Medicine, Univ. of Minnesota 1923; Fellow in Surgery, Mayo Clinic 1924; Resident Surgeon, Univ. Hospital 1925; Instructor in Surgery, Univ. of Minnesota 1926-, Asst. Prof. 1927; Asst. Surgical Clinic and Physiological Inst., Berne 1927-28; Assoc. Prof. of Surgery, Univ. of Minnesota 1928, Dir. Dept of Surgery 1930-67, Prof. of Surgery 1931-66, Regents' Prof. of Surgery 1966-; co-Ed. Surgery 1937-70; Pres. Minn. Pathological Soc., Halsted Surgical Soc., Minn. Medical Foundation 1948-54, Minn. Acad. of Medicine 1953, Heart Council 1954-57, American Coll. of Surgeons 1959, Research Facilities Council 1959, American Chapter of Int. Surgical Soc. 1969-70; Consultant to U.S.P.H.S.; Hon. mem. Hellenic Surgical Soc., Athens, Norwegian Acad. of Science, Royal Coll. of Surgeons (Edinburgh), Royal Coll. Surgeons (Ireland), Argentine Surgical Soc.; mem. Nat. Acad. of Sciences 1966-; Pres. American Surgical Assn. 1968-69; awarded Samuel D. Gross Prize, Philadelphia Acad. of Surgery 1935, John Scott Award 1941, Alvarenga Prize, Philadelphia Coll. of Medicine 1949, American Cancer Soc. Award 1949, Pittsburgh Surgical Soc. Award 1958, Medallion and membership of French Nat. Acad. of Medicine 1959, Distinguished Service Award, Univ. of Minn. 1960, Passano Award 1961, American Cancer Soc. Special Citation 1962; corresp. mem. German Surgical Congress 1960; the Outstanding Minnesotan Award 1969; Quinquennial Lannelongue Prize, French Acad. of Surgery 1967; Distinguished Service Award, American Medical Assn. 1968, American Surgical Assn. 1976; Hon. Fellow, Royal Coll. of Surgeons (London) 1962; Dr. h.c., (Sorbonne) 1962; Hon. LL.D., (Univ. of Buffalo) 1946; D.Sc. (Chicago 1956, St. Olav Coll. 1958, Temple 1961, Hamline 1963). *Publications:* The Therapeutic Problem in Bowel Obstruction 1937, 1942, 1955, Cancer of the Esophagus and Stomach 1951, 1956, Experimental and Clinical Journal; publs. on therapeutic aspects of intestinal obstruction. *Address:* University of Minnesota Medical School Complex, P.O. Box 610, Minneapolis, Minn. 55455 (Office); 2832 W. River Road, Minneapolis, Minn. 55406, U.S.A. (Home). *Telephone:* (612) 373-5944 (Office); (612) 729-3884 (Home).

WANKEL, Felix; German research engineer; b. 13 Aug. 1902, Lahr/Schwarzwald; s. of Rudolf and Gertrud (née Heidlauff) Wankel; m. Mi Kirn; ed. Volksschule and Gymnasium. employed at Druckerei-Verlag, Heidelberg 1921-26; partner in engineering works 1927-32; worked in own research workshop in Lahr for B.M.W. (Bayerisch Motorenwerke) 1934-36; engaged in research and devt. work at W.V.W. (Wankel-Versuchs-Werkstätten) for R.L.M. (Air Ministry) 1936-45; continued work at Technische Entwicklungsstelle, Lindau, for Goetzewerke, Borsig, N.S.U. 1951-60; now Dir. TES Inst.; inventor and developer of rotary combustion engine – "Wankel-Motor"; Hon. Dr. Ing. (Munich) 1969; Gold Award, Verein Deutscher Ingenieure 1969, Grosses Bundesverdienstkreuz 1970, Franklin Medal, Philadelphia Inst. 1971, Bavaria Order of Merit 1973. *Publications:* Voraussetzungen für das Untersuchen der Kolbenringabdichtung 1941, Kurzbericht über scheiben- und walzengesteuerte Verbrennungsmotoren 1944, Einteilung der Rotationskolbenmaschinen 1963 (English trans. 1965); several articles in journals. *Leisure interests:* reading history and poetry, architecture, protection of animals, vegetarianism, pacifism, running, rowing. *Address:* Technische Forschungs- und Entwicklungsstelle der Fraunhofergesellschaft, Lindau/Bodensee, Fraunhoferstrasse 10 (Office); 899 Lindau/Bodensee, Bregenzerstrasse 82, Federal Republic of Germany (Home). *Telephone:* 5277 (Office); 5953 (Home).

WANSBROUGH-JONES, Sir Owen Haddon, K.B.E., C.B., M.A., PH.D., F.R.I.C.; British scientist; b. 25 March 1905, Attleborough, Norfolk; s. of Arthur and Beatrice Anna Wansbrough-Jones (née Slipper); ed. Gresham's School, Holt and Trinity Hall, Cambridge; Chemical research Univ. of Cambridge 1926-30; Berlin 1931; Fellow of Trinity Hall 1930-46; Asst. Tutor 1932, Tutor 1934, Hon. Fellow 1956; Departmental Demonstrator, Dept. of Colloid Science, Cambridge 1931-39; granted Emergency Comm. in Army 1940; miscellaneous Gen. Staff and tech. appointments 1940-46; Dir. of Special Weapons and Vehicles 1946; demobilized as Brig. April 1946; Scientific Adviser to Army Council 1946-50; Principal Dir. of Scientific Research (Defence), Ministry of Supply 1951-53, Chief Scientist, Ministry of Supply 1953-59; Treas. Faraday Society 1949-60; Dir. Albright and Wilson Ltd. 1959-65, Exec. Vice-Chair. 1965-67, Chair. 1967-69; Prime Warden Goldsmiths Co. 1967-68; mem. Council Natural Environment Research Council 1968-74; Dir. British Oxygen Int. 1960-76. *Leisure interests:* gardening and shooting. *Address:* Orchardleigh, Long Stratton, Norfolk, NR15 2PX; 7 King Street, St. James's, London, S.W.1, England. *Telephone:* 0508-30410 (Norfolk); 01-930 8608 (London).

WARBURG, Sir Siegmund George, Kt.; British merchant banker; b. 30 Sept. 1902, Tübingen, Germany; s. of Georges Warburg and Lucie Kaulla; m. Eva Maria Philipson 1926; one s. one d.; ed. Reutlingen Gymnasium, and Urach Humanistic Seminary; Partner, M. M. Warburg and Co., Hamburg 1930-38; Dir. New Trading Co., London 1938-46, Kuhn Loeb and Co., New York 1956-64, S. G. Warburg and Co., London 1946-69; Pres. S. G. Warburg & Co., London 1970-78, Chair. Advisory Council 1978-; German Grand Cross of Merit, other decorations. *Address:* 30 Gresham Street, London, E.C.2, England.

WARD, Dame Barbara; (see Jackson of Lodsworth, Baroness).

WARD, David, C.B.E., F.R.C.M.; British (bass) opera singer; b. 3 July 1922, Dumbarton, Scotland; s. of James Ward and Catherine Bell; m. Eily V. S. Rutherford 1960; ed. St. Patrick's Coll., Dumbarton and Royal Coll. of Music; with Sadlers Wells Opera Company 1953-59, Royal Opera House, Covent Garden 1960-64; freelance singer 1965-; has appeared at many of the world's major opera houses including La Scala, Milan, Vienna State Opera and Metropolitan Opera House, New York; noted for interpretation of Wagnerian roles, especially Wotan in Der Ring der Nibelungen; Hon. R.A.M.; Hon. LL.D. (Strathclyde). *Leisure interests:* golf, swimming, theatre. *Address:* 14 Clarence Terrace, Regent's Park, London, N.W.1, England.

WARDHANA, Ali, M.A., PH.D.; Indonesian economist and politician; b. 6 May 1928, Surakarta, Central Java; m. Renny Wardhana 1953; one s. three d.; ed. Univ. of Indonesia, Jakarta and Univ. of California (Berkeley) U.S.A.; Dir., Research Inst. of Econ. and Social Studies 1962-67; Prof. of Econs., Univ. of Indonesia 1967-, Dean Faculty of Econs. 1967-; Adviser to Gov. of Cen. Bank 1964-68; mem. team of experts of Presidential Staff 1966-68; Minister of Finance 1968-; Chair. Cttee. of Board of Governors of the IMF on Reform of the Int. Monetary System and Related Issues 1972-74; Grand Cross Order of Léopold II (Belgium) 1970, Grand Cross Order of Orange Nassau (Netherlands) 1971. *Leisure interests:* reading, tennis, bowling, swimming. *Address:* 5, Jalan Brawijaya III, Kebayoran Baru, Jakarta, Indonesia.

WARHOL, Andy; American film maker and artist; b. 8 Aug. 1931; s. of James and Julia (Von) Warhol; exhbns. at Leo Castelli Gallery and Stable Gallery New York City, Ferus Gallery, Los Angeles, Morris Gallery, Toronto, Rubbers Gallery, Buenos Aires, Sonnebend Gallery, Paris; 6th Film Culture Award 1964, Los Angeles Film Festival Award 1964. *Films include:* Sleep 1963, Eat 1963, Kiss 1963, Empire 1964, Harlot 1964, My Hustler 1965, Chelsea Girls 1966, Bike Boy 1967, Lonesome Cowboys 1968, Blue Movie 1969, Imitation of Christ 1969; dir. by Paul Morrissey: Flesh 1969, Trash 1971, Women in Revolt 1972, Heat 1972, Blood for Dracula 1974, Flesh for Frankenstein 1975, Bad 1976. *Publication:* The Philosophy of Andy Warhol (From A to B and Back Again) 1975. *Address:* c/o The Castelli Gallery, 4 East 77th Street, New York City, N.Y., U.S.A.

WARIS, Klaus, PH.D.; Finnish economist; b. 17 March 1914, Helsinki; s. of Dr. Erkki Warén and Katri Cannelin; m. Elina Leppänen 1939; two s. one d.; ed. Turku, Helsinki Univ.; Chief, Econ. Affairs Div., Ministry of Finance 1946-49; Prof. Econs. Finnish Inst. of Tech. 1949-52; mem. Man. Board Bank of Finland

1952-57; Gov. Bank of Finland 1957-67; Chancellor, Helsinki School of Econs. 1967-; Gov. for Finland, IMF 1958-68. *Address:* Kartanontie 12, Helsinki 33, Finland. *Telephone:* 482-979.

WARK, Sir Ian William, Kt., C.M.G., C.B.E., D.SC., PH.D.; Australian physical chemist; b. 8 May 1899, Melbourne; s. of W. J. and F. E. Wark; m. Elsie Evelyn Booth 1927; one d.; ed. Scotch Coll., Melbourne, and Univs. of Melbourne, London and Calif. (Berkeley); Exhbn. of 1851 Science Research Scholarship 1921-24; Lecturer in Chemistry, Univ. of Sydney 1925; Research Chemist, Electrolytic Zinc Co. of Australasia Ltd. 1926-39; Commonwealth Scientific and Industrial Research Org., Chief Div. of Industrial Chem. 1940-58, Dir. Chemical Research Laboratories 1958-60, mem. of Exec. 1961-65; Chair. Commonwealth Advisory Cttee. on Advanced Educ. 1965-71; Hon. Consultant to CSIRO Minerals Research Laboratories 1971-; Gen. Pres. Royal Australian Chemical Inst. 1957-58; Fellow, Australian Acad. of Science 1954-, Treas. 1959-63; Foundation Fellow, Australian Acad. of Technological Sciences 1976-; hon. mem. Australasian Inst. Mining and Metallurgy 1960-, Fellow, Univ. Coll. London 1965; Hon. D.Sc. (Melbourne) 1977, Hon. D.A.Sc. (Victoria Inst. of Colls.) 1978; Australia and New Zealand Assen. for the Advancement of Science Medal 1973. *Publications:* Principles of Flotation (monograph) 1938, (revised with K. L. Sutherland 1955), Why Research? 1968. *Leisure interests:* golf, fishing for trout. *Address:* 31 Linum Street, Blackburn, Victoria 3130, Australia. *Telephone:* Melbourne 877-2878.

WARNER, Bishop Bennie D., M.SC., TH.M., D.D.; Liberian ecclesiastic; b. 30 April 1935, Caresburg District; ed. Monrovia Gbargna United Methodist Mission School, Booker Washington Inst., Kakata, Cuttington Univ. Coll., Suakoto, Syracuse Univ. and Boston Univ. School of Theology (U.S.A.); ordained Deacon 1961; acting Dir. Pastors' Inst. of the United Methodist Church 1961; educ. counsellor and maths. and social studies teacher, W.V.S. Tubman Elementary School 1962-68; Chair. Nat. Student Christian Council of Liberia; later ordained Elder; fmr. Pastor, St. John's United Methodist Church, Gbarnga, and Reeves Memorial United Methodist Church, Crozierville; fmr. Chair. Interim Cttee. for the Admin. of the Coll. of W. Africa, Board of Ministry, Liberia Annual Conference of United Methodist Church; ordained Bishop 1973; later Chair. Board of Trustees of the Coll. of W. Africa; Vice-Pres. of Liberia Oct. 1977-; mem. Board of Trustees, Cuttington Coll. and Divinity School, Board of the Booker Washington Inst., Nat. Disaster Comm., Council of Bishops, World Methodist Council; Grand Band, Order of the Star of Africa. *Address:* Office of the Vice-President, Monrovia; United Methodist Church, P.O. Box 1010, Monrovia, Liberia.

WARNER, Sir Frederick Archibald, G.C.V.O., K.C.M.G., M.A.; British businessman, farmer and fmr. diplomatist; b. 2 May 1918, Bournemouth; s. of Frederick A. Warner and Marjorie M. Winants; m. Simone Georgina de Ferranti 1971; two s.; ed. Royal Naval Coll., Dartmouth and Magdalen Coll., Oxford; served Royal Navy 1932-37, 1939-46; joined Foreign Office 1946; served in Moscow 1950-51, Rangoon 1956-58, Athens 1958-59; Amb. to Laos 1965-67; Minister, NATO 1967-68; Deputy Perm. Rep. to UN 1969-70; Amb. to Japan 1972-75; Dir. Guinness Peat Group, Chloride Group, Reinsurance Group, Yard Farms Ltd; Leverhulme Medal 1978. *Address:* 11 Westmoreland Place, London, S.W.1; Laverstock, Bridport, Dorset, England. *Telephone:* 01-834 2520 (London); Broadwindsor 543 (Dorset).

WARNER, Sir Frederick Edward, Kt., B.SC., F.R.S.; British engineer and university professor; b. 31 March 1910, London; s. of Frederick Warner; m. 1st Margaret Anderson McCrea, two s. two d.; m. 2nd Barbara Ivy Reynolds; ed. Bancrofts School, Univ. Coll., London; chemical engineer with various cos. 1934-56; partner in firm of consulting chemical engineers working in U.K., Ireland, U.S.S.R., India, Iran, Jordan, Africa 1956-; Senior Partner, Cremer and Warner 1963-; Visiting Prof. of Chem. Eng., Imperial Coll., Univ. Coll., London 1970-; Pro-Chancellor, Open Univ. 1974-; mem. Advisory Council on Energy Conservation, Dept. of Energy 1974-; Vice-Pres. British Standards Inst. 1976-; Pres. British Assen. for Commercial and Industrial Educ. 1977-; Chair. British Nat. Cttee. on Problems of Environment, Royal Soc. 1977-; Pres. Fédération Européene d'Associations Nationales d'Ingénieurs 1968-71; Hon. mem. Royal Inst. of Engineers, Netherlands 1972; Fellow, Univ. Coll., London 1967; Hon. D.Tech. (Bradford) 1969, Hon. D.Sc. (Aston) 1970, (Cranfield) 1978, (Heriot-Watt) 1978, (Newcastle) 1978; Gold Medal, Czechoslovak Soc. for Int. Relations 1969; Medal, Insinöö riliitto, Finland 1969, Bronze Medal, Associazione Nationale Ingegneri e Architetti d'Italia 1971, Leverhulme Medal 1978; Académico Correspondiente la Academia de Ingenieria, Mexico. *Publications:* Problem in Chemical Engineering Design (with J. M. Coulson) 1949, Today 1971; papers on nitric acid, heat transfer, underground gasification of coal, air and pollution, contracts, planning, safety, professional and continuous educ. *Leisure interest:* monumental brasses, ceramics, gardens. *Address:* 140 Buckingham Palace Road, London, S.W.1, England. *Telephone:* 01-730 0777.

WARNER, Harry B., M.S.; American chemical engineer and business executive; b. 7 July 1916, Columbus, Ohio; s. of Harry Albert and Marie (Flynn) Warner; m. Vesta Marie Engel 1940; two s. (twins), one d.; ed. Ohio State Univ.; with B. F. Goodrich Chemical Co. 1939-64, Vice-Pres. devt. 1954-58, marketing 1958-60, Pres. 1960-64; Group Vice-Pres. B. F. Goodrich Co. 1964-67, Pres. 1967-74; mem. Board of Dirs. B. F. Goodrich 1966-74, Special Exec. Consultant 1974-; mem. Board of Govs. and fmr. Pres. Cleveland Eng. Soc.; fmr. Dir. American Inst. of Chemical Engineers, mem. and fmr. Pres. Cleveland Section; mem. Exec. Cttee. American Section of Soc. for Chemical Industry; Dir. Rubber Mfg. Assen.; mem. Advisory Council Nat. 4-H Foundation, Advisory Comm. Univ. of Akron Coll. of Engineering, Nat. Industrial Council of Opportunities Industrialization Center of America; Trustee Akron City Hospital. *Address:* B. F. Goodrich Company, 500 South Main, Akron, Ohio 44318, U.S.A. *Telephone:* (216) 379-2252.

WARNER, John Christian, A.B., M.A., PH.D.; American physical chemist; b. 28 May 1897, Goshen, Ind.; s. of Elias and Addie Plank Warner; m. Louise Hamer 1925; two s.; ed. Indiana Univ. and Univ. of Mich.; Instructor in Chem., Indiana Univ. 1921-24; Research Chemist, Wayne Chemicals 1924-26; Instructor, Carnegie-Mellon Univ. 1926-28, Asst. Prof. 1928-33, Assoc. Prof. of Chem. 1933-36, Assoc. Prof. of Metallurgy 1936-38, Prof. of Chem. and Chair. of Dept. 1938-49, Dean Graduate Studies 1945-50, Vice-Pres. 1949-50, Pres. 1950-65, Pres. Emer. 1965-; on Manhattan Project 1943-45; Consultant to foundations and industries 1965-; Pres. Electrochemical Soc. 1952, American Chemical Soc. 1956; mem. Nat. Acad. of Sciences; Hon. doctorates from 14 univs. and colls.; Pittsburgh American Chemical Soc. Award 1945, Gold Medal of American Inst. of Chemists 1953, Pennsylvania Award for Excellence in Educ. 1966. *Publications include:* Physical chemistry of iron and steelmaking 1951; numerous articles in journals. *Leisure interests:* performing arts, travel, literature, educational innovation. *Address:* 2317 Science Hall, Carnegie-Mellon University, Pittsburgh, Pa. 15213 (Office); 4742 Centre Avenue, Apartment 301, Pittsburgh, Pa. 15213, U.S.A. (Home). *Telephone:* (412) 578-2687 (Office); (412) 621-2744 (Home).

WARNER, John W., B.S., LL.B.; American government official; b. 18 Feb. 1927, Washington, D.C.; s. of late Dr. John W. Warner and of Martha (Budd) Warner; m. 1st Catherine Conover Mellon (divorced 1973), one s. two d.; m. 2nd Elizabeth Taylor (*q.v.*) 1976; ed. public schools in Washington, D.C., school of Naval Research Laboratory, Washington, D.C., Washington and Lee Univ. and Univ. of Virginia Law School; in U.S. Navy attained rank of Electronic Technician 3rd Class 1944-46; subsequently enlisted in U.S. Marine Corps Reserve, active duty as Communications Officer 1950-52, Captain in Marine Corps Reserve 1952-61; admitted to the Bar 1954; private practice 1954-56; in U.S. Attorney's office as Special Asst. 1956, Asst. 1957, trial lawyer 1960-; joined campaign staff of then Vice-Pres. Richard Nixon 1960; associated with law firm Hogan & Hartson 1960, gen. partner 1964; Dir. of Ocean Affairs as rep. of Dept. of Defense 1971; Under-Sec. of U.S. Navy 1969-72, Sec. 1972-74; Dir. American Revolution Bicentennial Admin. 1974-76; Senator from Virginia Jan. 1979-; head of U.S. Del. to Moscow on Naval Affairs; Republican. *Address:* Atoka Farm, P.O. Box 1320, Middlesburg, Va. 22117, U.S.A.

WARNER, Leslie Harry; American industrial executive; b. 1911; ed. Wichita State Univ. and Harvard Univ. Graduate School of Business Admin; Automatic Electric Co. 1937; Man. Dir. Automatic Electric do Brasil, S.A., São Paulo 1938-42; Vice-Pres. Automatic Electric Sales Corpn., New York City 1942-46; Commercial Man., Automatic Electric Co., Chicago 1946-47; Pres. Automatic Electric Sales Corpn., Chicago 1947-54, Leich Electric Co., Genoa, Ill., Leich Sales Corpn., Chicago 1954-55, Automatic Electric Co. 1955-57; Exec. Vice-Pres. (Mfg.), Gen. Telephone & Electronics Corpn., New York City 1957-61, Pres. 1961-, Pres. and Chief Exec. Officer 1966-71, Chair. and Pres. 1971-72, Chair. and Chief Exec. Officer 1972-; Dir. numerous subsidiary and other cos. *Address:* General Telephone & Electronics Corporation, 730 Third Avenue, New York, N.Y. 10017, U.S.A.

WARNER, Rawleigh, Jr., A.B.; American business executive; b. 13 Feb. 1921, Chicago, Ill.; s. of late Rawleigh Warner and Dorothy Haskins Warner; m. Mary Ann de Clairmont 1946; two d.; ed. Lawrenceville School and Princeton Univ.; Mobil Oil Corpn. 1953-; Asst. to Financial Dir. Socony Vacuum Overseas Supply Co. 1953-56; Man. Econs. Dept., Mobil Oil Corpn. 1956-58, Man. Middle East Affairs Dept. 1958-59, Regional Vice-Pres. for Middle East

1959-60; Exec. Vice-Pres. Mobil Int. Oil Co. 1960-63, Pres. 1963; Dir. Exec. Vice-Pres. and mem. Exec. Cttee. Mobil Oil Corpn., with responsibility for Mobil Int. and Mobil Petroleum Corpn. Inc. 1964-65, Pres. Mobil Oil Corpn. 1965-69, Chair. 1969-; Dir. American Petroleum Inst., Marcor Inc., American Telephone and Telegraph Co., American Express Co. and American Express Int. Banking Co., Time Inc., Caterpillar Tractor Co., Chemical New York Corpn. and Chemical Bank, Nat. Council for U.S.-China Trade; Trustee, Lawrenceville School, Woodrow Wilson Int. Center for Scholars; Chair. Princeton Univ. Council for Univ. Resources; mem. The Business Council, White House Labor-Man. Cttee. *Leisure interests:* golf, walking, reading (mystery and adventure). *Address:* Mobil Oil Corporation, 150 East 42nd Street, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 883-2405.

WARNER, Rex; British writer; b. 9 March 1905; ed. Wadham Coll., Oxford; schoolmaster in Egypt; Classics Master at Raynes Park County School; Dir. British Inst., Athens 1945-47; Prof. Univ. of Connecticut 1964-74; retd. *Publications:* Poems 1937, The Wild-Goose Chase 1937, The Professor 1938, The Aerodrome 1941, Why Was I Killed? 1943, Poems and Contradictions 1945, The Cult of Power 1946, Men of Stones 1949, John Milton (biography) 1950, Men and Gods 1950, Greeks and Trojans 1951, Views of Attica (travel) 1951, Escapade 1953, Eternal Greece 1953, The Vengeance of the Gods 1954, The Greek Philosophers, The Young Caesar 1958, Imperial Caesar 1960, Pericles the Athenian 1963, The Converts (novel) 1967, Athens at War 1970, Men of Athens 1972; translations of Medea, Hippolytus and Helen (Euripides), Prometheus Bound (Aeschylus), Anabasis (Xenophon, entitled the Persian Expedition), The Peloponnesian War (Thucydides), The Fall of the Roman Republic (Plutarch) 1958, Caesar's War Commentaries 1959, Confessions of St. Augustine 1963, Pericles the Athenian 1963, Poems and The Greek Style (Seferis) 1963 and 1966, History of My Times (Xenophon) 1966, Moral Essays (Plutarch) 1971, Men of Athens 1972. *Address:* Anchor House, St. Leonard's Lane, Wallingford, Oxon., England.

WARNKE, Paul Culliton, B.A., LL.B.; American government official and lawyer; b. 31 Jan. 1920, Webster, Mass.; s. of Paul Martin and Lillian (née Culliton) Warnke; m. Jean Farjeon Rowe 1948; three s. two d.; ed. Yale Univ., Columbia Univ., New York; served U.S. Coast Guard, to Lieut. 1942-46; admitted to D.C. Bar 1948; Assoc., Covington and Burling, Washington, D.C. 1948-57, Partner 1957-66; Gen. Counsel, Dept. of Defense 1966-67; Asst. Sec. of Defense for Int. Security Affairs 1967-69; Partner, Clifford, Warnke, Glass, McIlwain and Finney 1969-77; Dir. U.S. Arms Control and Disarmament Agency (ACDA) 1977-78; Chief Negotiator for Strategic Arms Limitation Talks (SALT) 1977-78; part-time Consultant to State Dept. Oct. 1978-; mem. Md. and D.C. Advisory Comms. to U.S. Comm. on Civil Rights 1962-66; Dir. Exec. Cttee. of Int. Voluntary Services 1972; mem. Exec. Cttee. of Trilateral Comm.; mem. Disciplinary Board, D.C. Bar 1973; Trustee, Potomac School 1958-66, Chair. Board 1965-66; mem. Board of Dirs., Health and Welfare Council of Nat. Capital Area 1966-67; Trustee, Northland Coll. 1970; Chair. Board of Visitors, Georgetown School of Foreign Service; mem. Board of Visitors, Columbia Univ. School of Law, Antioch School of Law; mem. American Soc. of Int. Law, Council on Foreign Relations; Democrat. *Address:* 5037 Garfield Street, N.W., Washington, D.C. 20016, U.S.A. (Home).

WARNOCK, Geoffrey James, M.A.; British philosopher; b. 16 Aug. 1923, Leeds; s. of James Warnock, O.B.E., M.D., M.A.; m. Helen M. Wilson 1949; two s. three d.; ed. Winchester Coll. and New Coll., Oxford; Fellow, Magdalen Coll., Oxford 1949, 1953-71, Brasenose Coll. 1950-53; Principal, Hertford Coll., Oxford 1972-; Visiting Lecturer, Univs. of Illinois and Wisconsin and Princeton Univ.; Hon. Fellow, New Coll., Oxford. *Publications:* Berkeley 1953 (2nd edn. 1969), English Philosophy since 1900 1958 (2nd edn. 1969), Contemporary Moral Philosophy 1967, The Object of Morality 1971. *Leisure interests:* cricket, golf. *Address:* Hertford College, Oxford, England. *Telephone:* Oxford 41434.

WARNOCK, William, B.A., LL.D.; Irish diplomatist (retd.); b. 22 Sept. 1911, Dublin; s. of Frank Warnock and Susan Twamley; m. Dorothy Murray; two s. two d.; ed. The High School, Dublin, Trinity Coll., Dublin, and Hochschule für Politik, Berlin; entered Dept. of External Affairs ■ Cadet 1935; Sec., Berlin 1938, Chargé d'affaires a.i., Berlin 1939-44; Head of Section, Dept. of External Affairs, Dublin 1944-47; Chargé d'affaires, Stockholm 1947-50; Minister to Switzerland Feb. 1950-54, also accredited to Austria 1952-54; Asst. Sec. Dept. of External Affairs 1954-56; Minister to Fed. Repub. of Germany 1956-59, Amb. 1959-62; Amb. to Switzerland and Austria 1962-64, to India 1964-67, to Canada 1967-70, to U.S.A. 1970-73, to Switzerland 1973-76, concurrently accred. to Austria 1973-74, concurrently accred. to Israel 1975-76; Gustav V Medal (Sweden), Grand Cross of Order of Merit (Fed. Repub. of Germany). *Leisure interests:* touring, preferably on foot. *Address:* 4 Ballinguile, Eglinton Road, Donnybrook, Dublin 4, Ireland. *Telephone:* 691817.

WARREN, Frederick Miles, C.B.E., F.N.Z.I.A., A.R.I.B.A., DIP.ARCH.; New Zealand architect; b. 10 May 1929, Christchurch; s. of M. B. and J. Warren (née Hay); ed. Christ's Coll., Auckland Univ. School of Architecture; worked for late C. W. Wood, F.N.Z.I.A. 1946-47, for late R. C. Munroe, A.N.Z.I.A. 1948; joined partnership with late G. T. Lucas 1956; started firm Warren and Mahoney 1958, Senior Partner; Fellow, New Zealand Inst. of Architects 1965; Warren and Mahoney awarded N.Z.I.A. Gold Medal for Dental Nurses' Training School 1960, for Christchurch Memorial Garden Crematorium 1964, for Christchurch Coll. Halls of Residence 1969, for Christchurch Town Hall and Civic Centre 1973; won Architectural Competition for design of Condominium Offices, New Hebrides 1966. *Leisure interests:* yachting, water-colouring, sketching. *Address:* 65 Cambridge Terrace, Christchurch 1, New Zealand. *Telephone:* 799.640.

WARREN, Jack Hamilton; Canadian diplomatist; b. 10 April 1921; m. Hilary J. Titterington; four c.; ed. Queen's Univ., Kingston, Ont.; Royal Canadian Navy 1941-45; joined Dept. of External Affairs 1945; served in London 1948-51; transferred to Dept. of Finance and served as Financial Counsellor, Washington, D.C. and as Alt. Dir. for Canada, IMF and IBRD 1954-57; Canadian Del. to OECD and NATO 1957-58; Asst. Deputy Minister of Trade and Commerce 1958-64; Chair. GATT Contracting Parties 1962-65; Deputy Minister of Trade and Commerce 1964-68, of Industry, Trade and Commerce 1968-71; High Commr. to U.K. 1971-74; Amb. to U.S.A. 1975-77; Canadian Coordinator for the Multilateral Trade Negotiations 1975-; Hon. LL.D. (Queen's Univ.) 1974; Outstanding Achievement Award, Public Service of Canada 1975. *Address:* 240 Spark Street, 4th Floor West, Ottawa, Ontario (Office); Box 282, R.R.I, Chelsea, Quebec JOX 1NO, Canada (Home).

WARREN, Robert Penn, B.A., B.LITT.; American university professor and writer; b. 24 April 1905, Guthrie, Ky.; s. of Robert Franklin Warren and Anna Ruth Penn; m. 1st Emma Brescia 1930 (divorced 1951), 2nd Eleanor Clark 1952; one s. one d.; ed. Vanderbilt, Oxford and Yale Univs. and Univ. of California; Asst. Prof., Southwestern Coll. 1930-31, Vanderbilt Univ. 1931-34; Asst. Prof. Louisiana State Univ. 1934-36, Assoc. Prof. 1936-42; Prof. Univ. of Minnesota 1942-50; Lecturer Yale Univ. 1950-51, Prof. of Playwriting 1951-56, of English 1961-73, Prof. Emer. 1973-; Poetry, Library of Congress 1944-45; ■ Founder and Ed. Southern Review 1935-42; mem. American Acad. of Arts and Letters, American Acad. of Arts and Sciences, American Philosophical Soc.; Hon. Fellow; Modern Language Assn.; Rhodes Scholarship, Houghton Mifflin Literary Fellowship 1936, Guggenheim Fellowship 1939-40 and 1947-48; Levinson Prize 1936, Caroline Sinker Prize 1936, 1937, 1938, Shelley Memorial Award 1942, Pulitzer Prize for Fiction 1947, Southern Prize 1947, Robert Melzer Award (Screen Writer's Guild) 1949, Millay Award (American Poetry Soc.), Nat. Book Award, Pulitzer Prize for Poetry 1958, Sidney Hillman Award for Journalism 1959, Irita Van Doren Award (New York Herald Tribune) 1965; Bollingen Prize in Poetry 1967; Nat. Medal for Literature 1970; Hon. Litt.D., LL.D.; Van Wyck Brooks Poetry Award 1970, Bellaman Award 1970, Jefferson Lecturer, Nat. Endowment for the Humanities 1974, Thoreau-Emerson Medal, American Acad. of Arts and Sciences 1975, Copernicus Prize 1976, Roswell Messing Jr. Award 1977, Harriet Monroe Award 1977. *Publications:* John Brown: The Making of ■ Martyr 1929, XXXVI Poems 1936, An Approach to Literature (with Cleanth Brooks and John Purser) 1937, Understanding Poetry (with Cleanth Brooks) 1938, Night Rider (novel) 1939, At Heaven's Gate (novel) 1943, Eleven Poems on the Same Theme 1942, Selected Poems 1944, All the King's Men (novel) 1946, Circus in the Attic (stories) 1948, World Enough and Time (novel) 1950, Brother to Dragons (verse) 1953, Band of Angels (novel) 1955, Segregation: The Inner Conflict of the South 1956, Promises (verse) 1957, Selected Essays 1958, The Cave (novel) 1959, You, Emperors and Others (verse) 1960, The Legacy of the Civil War 1961, Wilderness (novel) 1961, Flood (novel) 1964, Who Speaks for the Negro? 1965, Selected Poems, New and Old 1966, Incarnations: Poems 1966-68 1968, Audubon: A Vision (a poem) 1969, Meet Me in the Green Glen (novel) 1972, American Literature: the Makers and the Making (with Cleanth Brooks and R. W. B. Lewis), Or Else (poem), Poems 1968-74 1974, Now and Then: Poems 1976 1978, Democracy and Poetry 1975, Selected Poems 1923-75 1977, A Place to Come To (novel) 1977. *Leisure interests:* gardening, walking, swimming. *Address:* 2495 Redding Road, Fairfield, Conn. 06430, U.S.A.

WARREN, Shields, A.B., M.D.; American physician; b. 26 Feb. 1898, Cambridge, Mass.; s. of William M. and Sara B. Warren; m.

Alice Springfield 1923; two d.; ed. Boston Univ., Harvard Medical School; Prof. of Pathology, Harvard Medical School (New England Deaconess Hospital) 1948-65, Emer. 1965-; Chair. Corpn. and Trustees, Boston Univ. 1961-69; U.S. Rep. UN Scientific Cttee. on the Effects of Atomic Radiation 1955-63; Consultant, U.S. Dept. of Energy (fmr. U.S. Atomic Energy Comm.) 1959-; Special Consultant, Dept. of Defense (Health and Medical) 1959-62; Chair. Cttee. on Pathological Effects of Atomic Radiation 1955-60, Life Sciences Cttee. NASA 1971-74; mem. Nat. Acad. of Sciences 1962-; Hon. D.Sc., Hon. S.D., Hon. LL.D.; many awards. *Publications:* Medical Science for Everyday Use 1927, Pathology of Diabetes Mellitus 1930, 4th edn. 1966, A Handbook for the Diagnosis of Cancer of the Uterus (with O. Gates) 1947, 1948, 1949, Introduction to Neuropathology (with S. P. Hicks) 1950, Medical Effects of the Atomic Bomb in Japan (with A. W. Oughterson) 1956, Pathology of Ionizing Radiation 1961. *Address:* 194 Pilgrim Road, Boston, Mass. 02215 (Office).

WARTIOVAARA, Otso Uolevi; Finnish diplomatist; b. 16 Nov. 1908, Helsinki; s. of J. V. Wartiovaara and Siri Wartiovaara (née Nystén); m. Maine Alanen 1936; three s.; ed. Helsinki Univ. Law School; entered Foreign Service 1934; Attaché, Paris 1936-39; Sec. and Head of Section, Ministry for Foreign Affairs 1939-42; Counsellor, Stockholm 1942-44; Consul, Haaparanta (Sweden) 1944-45; Head of Section, Ministry of Foreign Affairs 1945-49; Counsellor, Washington 1949-52; Head of Admin. Dept. Ministry of Foreign Affairs 1952-54, Head of Legal Dept. 1954-56; Minister of Yugoslavia, also accred. to Greece 1956-58; Amb. to Yugoslavia, also accred. to Greece 1958-61; Amb. to Austria 1961-68, also accred. to Vatican 1966-68; Perm. Rep. to IAEA, Vienna 1961-68; Amb. to U.K. 1968-74; decorations from Finland, Austria, Greece, Vatican, Yugoslavia, Sweden, U.K. and Norway. *Leisure interest:* shooting. *Address:* Lutherinkatu 6A, Helsinki 10, Finland.

WASHBURN, Sherwood L., PH.D.; American professor of anthropology; b. 26 Nov. 1911, Cambridge, Mass.; m. Henrietta Pease 1938; two s.; ed. Harvard Univ.; Anatomy Dept., Columbia Univ. Medical School 1939-47; Dept. of Anthropology, Univ. of Chicago 1947-58; Prof. of Anthropology, Univ. of Calif. at Berkeley 1958-; mem. Nat. Acad. of Sciences; Viking Fund Medal 1960, Ciba Foundation Medal 1965, Huxley Medal 1967. *Publications:* on human evolution. *Address:* Department of Anthropology, University of California, Berkeley, Calif. 94720 (Office); 2797 Shasta Road, Berkeley, Calif. 94708, U.S.A. (Home). *Telephone:* (415) 642-2897 (Office); (415) 843-5326 (Home).

WASHINGTON, Walter E., LL.B.; American government official; b. 15 April 1915, Dawson, Georgia; m. Bennetta Bullock; one d.; ed. Howard Univ. and Howard Law School; Exec. Dir. Nat. Capital Housing Authority, Washington, D.C. until Nov. 1966; Chair. New York City Housing Authority 1966-67; Commr. of District of Columbia and Mayor of Washington 1967-74; Mayor D.C. 1975-; 13 hon. degrees. *Address:* 408 T Street, N.W., Washington, D.C. 20001, U.S.A.

WASS, Sir Douglas William Gretton, K.C.B., M.A.; British civil servant; b. 15 April 1923, Wallasey, Cheshire; s. of late Arthur W. and Elsie W. Wass; m. Dr. Milica Pavicic 1954; one s. one d.; ed. Nottingham High School, St. John's Coll., Cambridge; Scientific Research with Admiralty 1943-46; Asst. Principal, Treasury 1946, Principal 1951; Commonwealth Fund Fellow, U.S.A. 1958-59; Fellow, Brookings Inst., Washington 1959; Private Sec. to Chancellor 1959-61; Private Sec. to Chief Sec. 1961-62; Alt. Exec. Dir. to IMF and Financial Counsellor, British Embassy, Washington 1965-67; Under-Sec. of Treasury 1968, Deputy Sec. 1970, Second Perm. Sec. 1973, Perm. Sec. 1974-; mem. British Selection Cttee., Harkness Fellowships. *Leisure interest:* golf. *Address:* 6 Dora Road, Wimbledon, London, S.W.19, England. *Telephone:* 01-946 5556.

WASSERBURG, Gerald Joseph, M.SC., PH.D.; American professor of geology and geophysics; b. 25 March 1927, New Brunswick, N.J.; s. of Charles Wasserburg and Sarah Levine Wasserburg; m.; two s.; ed. Univ. of Chicago; Rifleman, U.S. Army Second Infantry Div. 1943-46; with Resurrection Mining Co. 1947; Juneau Ice Field Research Project, Alaska 1950; Consultant Argonne Nat. Laboratory, Lamont, Ill. 1952-55; Research Assoc. Enrico Fermi, Inst. for Nuclear Studies, Chicago 1954-55; Asst. Prof. of Geology, Calif. Inst. of Tech. 1955-59, Assoc. Prof. of Geology 1959-62, Prof. of Geology and Geophysics 1962-; Vice-Chair. Lunar Sample Analysis Planning Team, MSC, NASA 1970; mem. Lunar Sample Review Board 1970-72, Science Working Panel 1971-73, Physical Sciences Cttee. 1971-75; Ed. Earth and Planetary Science Letters 1967-75; Chair. Comm. for Planetary and Lunar Exploration, Space Science Board 1975-78; mem. Nat. Acad. of Sciences; Fellow, American Acad. of Arts and Sciences, American Geophysical Union, Geological Soc. of America; Combat Infantryman's Badge, Purple Heart; Exceptional Scientific Achievement Medal, NASA 1970; Arthur L. Day Medal, Geological Soc. of America 1970; Distinguished Public Service Medal, NASA 1972, and with cluster 1978; James Furman Kemp Medal, Columbia Univ. 1973, Leonard Medal, Meteor Soc. 1975; V. M. Goldschmidt Medal, Geochemical Soc. 1978, Univ. of Chicago Alumni Assn. Professional Achievement Award 1978. *Publications:* research papers in several scientific journals, in the fields of geochemistry, geophysics and astrophysics, and the application of the methods of chemical physics to problems in the earth and planetary sciences; major researches: determination of the time scale of the solar system, chronology of the moon, establishment of dating methods using long-lived natural radioactivities, study of geological processes using nuclear and isotopic effects as a tracer in nature and the application of thermodynamic methods to geological systems. *Address:* California Institute of Technology, Division of Geological and Planetary Sciences, 1201 East California Street, Pasadena, Calif. 91125; Home: 2100 Pinecrest Drive, Altadena, Calif. 91001, U.S.A. *Telephone:* (213) 795-6811 (Office); (213) 798-8171 (Home).

WATANABE, Bunzo, B.A.; Japanese company executive; b. 20 May 1907, Tokyo; s. of Tomekichi and Shisa Watanabe; m. Yoko Hikosaka 1933; two d.; ed. Hitotsubashi Univ.; Vice-Pres., Ajinomoto Co. Inc. 1965, Pres. 1973-; Chair. Board, Knorr Foods Co. Ltd., Japan 1973-; mem. Board, Morishita Pharmaceutical Co. Ltd. 1963-, Ajinomoto Gen. Foods Inc. 1973-, Eurolysine S.A., France 1974-, Ajinomoto U.S.A. Inc. 1974-, Union Chemicals Inc., Philippines 1975-; mem. Board, Keizai Doyukai (Japan Cttee. for Industrial Devt.) 1972-, Keidanren (Fed. of Econ. Orgs.) 1973-; Trustee, Int. Christian Univ., Tokyo 1973-; Blue Ribbon Medal 1975. *Leisure interests:* golf, Japanese classical music. *Address:* Ajinomoto Co. Inc., 6, 1-chome, Kyobashi, Chuo-ku, Tokyo 104, Japan. *Telephone:* 03-272-1111.

WATANABE, Michio; Japanese politician; b. 1924, Tochigi Prefecture; ed. Tokyo Commercial Coll. (now Hitotsubashi Univ.); mil. service; engaged as salesman 1945-50; practice as tax lawyer; mem. Prefectural Legislature of Tochigi; elected five times to House of Reps. 1963-; Parl. Vice Minister of Agric. and Forestry; Deputy Sec.-Gen. of Liberal Democratic Party (LDP); Chair. of Cabinet Cttee. of House of Reps.; Minister of Health and Welfare 1976-77 of Agric., Forestry and Fisheries Dec. 1978-; mem. of Seirankai (conservative group) in LDP. *Address:* c/o Ministry of Agriculture, Forestry and Fisheries, Tokyo, Japan.

WATANABE, Tadao; Japanese banker; b. 3 Sept. 1898, Hokkaido; s. of Teruo Watanabe and Haruko Watanabe; m. Minoru Mita 1926; two s.; ed. Tokyo Univ.; joined Bank of Japan 1924; transferred to Sanwa Bank 1945, Man. Dir. 1945-46, Senior Man. Dir. 1946-47, Pres. 1947-60, Chair. 1960-76, Hon. Chair. 1976-; Man. Dir. Kansai Econ. Fed.; Dir. Ohbayashi Road Construction Co., Fujita Tourist Enterprise Co., Mainichi Broadcasting Co., Osaka UNESCO Assn. and numerous other socs.; Auditor Osaka Gas Co.; Adviser Teijin Ltd., Kansai Electric Power Co., Takashimaya Co., Toyo Trust and Banking Co., Fed. of Econ. Org., Japan Fed. of Employers' Assn.; Pres. Sandwa Midori Fund. *Leisure interests:* appreciation and collection of paintings, golf. *Address:* 4-10 Fushimimachi, Higashi-ku, Osaka; 1-18 Kawanishicho, Ashiyashi, Hyogo Prefecture; 5-16-35, Roppongi, Minato-ku, Tokyo, Japan. *Telephone:* 0797-22-2910 (Ashiya); 03-583-2715 (Tokyo).

WATANABE, Takeshi; Japanese banker and financial consultant; b. 15 Feb. 1906, Tokyo; s. of Chifuyu Watanabe (fmr. Minister of Justice) and Yoshiko Watanabe; m. Fusako Yamakawa 1933; three s. two d.; ed. Law School of Tokyo Imperial Univ.; Ministry of Finance, Japan 1930, serving as Chief Liaison Officer, Chief of the Ministers' Secr. and Financial Commr.; Minister, Japanese Embassy in Washington 1952-56; Exec. Dir. for Japan, Int. Bank for Reconstruction and Devt.—IBRD (World Bank) and Int. Monetary Fund (IMF) 1956-60; Int. Financial Consultant 1960-65; Adviser to Minister of Finance, Japan, in charge of preparatory work for the establishment of the Asian Devt. Bank 1965; Pres. Asian Devt. Bank, Manila 1966-72; Chair. Trident Int. Finance Ltd., Hong Kong 1972-77, Revlon K.K., Japan 1977-; Adviser to Bank of Tokyo 1973-79; Japanese Chair. Trilateral Comm. *Publications:* Japanese Finance in Early Post-War Years (in Japanese) 1966, Towards a New Asia 1977. *Leisure interests:* photography, watercolour painting, gardening. *Address:* 35-19 Oyama-cho, Shibuya-ku, Tokyo, Japan. *Telephone:* 03 (466) 0610.

WATERHOUSE, Sir Ellis Kirkham, Kt., C.B.E.; British professor of fine arts; b. 16 Feb. 1905, Epsom; m. Helen Thomas 1949; two d.; ed. Marlborough Coll., New Coll., Oxford, and Princeton Univ., New Jersey; Asst., Nat. Gallery, London 1929-33; Librarian, British School at Rome 1933-36; Fellow Magdalen Coll., Oxford

1938-47; Dir. Nat. Galleries of Scotland 1949-52; Barber Prof. of Fine Arts and Dir. of Barber Inst., Univ. of Birmingham 1952-70; Dir. of Studies Paul Mellon Centre for Studies in British Art (London) 1970-73; Kress Prof. in Residence, Nat. Gallery of Art, Washington, D.C. 1974-75; mem. Exec. Cttee. Nat. Art Collections Fund 1972-; Officer Orange-Nassau, Ordine al Merito della Repubblica Italiana. *Publications:* Roman Baroque Painting 1937, Reynolds 1941, British Painting 1530-1790 1953, Gainsborough 1958, Italian Baroque Painting 1962, Reynolds 1973. *Address:* Overshot, Hinksey Hill, Oxford, England.

WATERS, Aaron Clement, PH.D.; American geologist; b. 6 May 1905, Waterville, Wash.; s. of Richard J. Waters and Hattie Lovina Clement Waters; m. Elizabeth P. von Hoene 1940; two d.; ed. Univ. of Wash. and Yale Univ.; Instructor in Geology, Yale Univ. 1928-30, Asst. Prof., Stanford Univ. 1930-33, Assoc. Prof. 1933-38, Prof. 1938-42, 1945-51; Staff Geologist and Research geologist, U.S. Geological Survey 1942-45; Prof. of Geology, Johns Hopkins Univ. 1952-63, Univ. of Calif. at Santa Barbara 1963-67; Prof. of Earth Sciences, Univ. of Calif. at Santa Cruz 1967-72, Prof. Emer. 1972-; Guggenheim Fellow, Nat. Science Foundation Senior Postdoctoral Fellow; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences. *Publications:* Textbooks (co-author) 1951, 4th edn. 1975; over 100 articles in professional journals. *Leisure interests:* varied and changeable. *Address:* Division of Natural Sciences, University of California, Santa Cruz, Calif. 95064 (Office); 308 Moore Street, Santa Cruz, Calif. 95060, U.S.A. (Home). *Telephone:* (408) 429-2881 (Office) (408) 426-3764 (Home).

WATKINSON, 1st Viscount (cr. 1964), of Woking in the County of Surrey; **Harold Arthur Watkinson,** P.C., C.H.; British politician and business executive; b. 25 Jan. 1910, Walton-on-Thames; s. of Arthur Gill Watkinson and Mary Casey; m. Vera Langmead 1939; two d.; ed. King's Coll., London; Conservative M.P. 1950-64; Parl. Sec. Ministry of Labour 1952-55; Minister of Transport and Civil Aviation 1955-59, Minister of Defence 1959-62; Dir. Midland Bank 1964-, Deputy Chair. 1969-76, British Insulated Callender Cables Ltd. 1968-77; Group Man. Dir. Schweppes Ltd. 1963-69, Exec. Chair. Cadbury Schweppes Ltd. 1969-74; Chair. Cttee. for Exports to U.S.A. 1964-67; Council British Inst. of Man. 1968-70; Pres. Inst. of Grocery Distribution 1970-72; Chair. Confed. of British Industry Cttee. on Company responsibility 1973, Deputy Pres. CBI 1975-76, Pres. 1976-77. *Leisure interests:* sailing, mountaineering, walking. *Address:* Tyma House, nr. Chichester, Sussex, England.

WATSON, Cecil James, B.S., M.S., M.D., PH.D.; American physician, scientist and professor of medicine; b. 31 May 1901, Minneapolis; s. of James Alfred Watson and Lucia Louise Coghlan Watson; m. Joyce Petterson 1925; ed. Univs. of Michigan, Minnesota, Munich and Technische Hochschule; Pathologist and Dir. of Laboratories, Minn. Gen. Hospital 1926-28, Pathologist and Dir. Northwest Clinic, Minot, N. Dakota 1928-30; Nat. Research Council Fellow 1931-32; Fellow and Resident in Medicine, Minn. Gen. and Univ. of Minn. Hospitals 1932-34; Asst. Prof. of Medicine, Univ. of Minn. 1934-36, Assoc. Prof. and Dir. Div. of Internal Medicine 1936-42, Prof. and Chair. Dept. of Medicine 1942-66, Distinguished Service Prof. 1961-, Dir. Univ. of Minn. Unit for Teaching and Research in Internal Medicine, Northwestern Hospital, Minn. 1966-72, Regent's Prof. of Medicine 1968-, Senior Consultant 1972-; Pres. Cen. Soc. for Clinical Research 1944, American Soc. for Clinical Investigation 1947, Assn. of American Physicians 1961, American Clinical and Climatological Assn. 1966; mem. Nat. Acad. of Sciences; Hon. Fellow Royal Coll. of Physicians and Surgeons (Canada) 1978; Hon. M.D. (Mainz and Munich); numerous lectureships and awards including Gordon Wilson Lecture and Medal, American Clinical and Climatological Assn. 1947, Lecturer and Hon. mem. Harvey Soc., New York City 1948, Modern Medicine Award 1959, James F. Bell Distinguished Service Award, Minn. Medical Foundation of Univ. of Minn. 1961; F. v. Müller Medal, Munich 1969; Kober Medal, Assn. of American Physicians 1972; Fogarty Scholar and Medal, N.I.H., Bethesda, Md. 1972. *Publications:* Numerous scientific articles and chapters; and some non-scientific addresses and essays. *Leisure interests:* skiing, wilderness fishing, travel, history. *Address:* Northwestern Hospital, Minneapolis, Minn. 55407; 510 Groveland Avenue, Minneapolis, Minn. 55403, U.S.A. *Telephone:* 874-4210 (Office).

WATSON, Sir Francis John Bagott, K.C.V.O., F.B.A., F.S.A.; British museum director and civil servant; b. 24 Aug. 1907, Dudley, Worcs.; s. of Hugh Watson and Ellen Marian (née Bagott); m. Mary Rosalie Gray Strong 1941 (died 1969); one s. (adopted); ed. Shrewsbury School, and St. John's Coll., Cambridge; Registrar Courtauld Inst. of Art 1934-38; Asst. Keeper, later Asst. Dir. Wallace Collection 1938-63, Dir. 1963-74; Asst. Surveyor of the King's (later the Queen's) Works of Art 1946-63, Surveyor 1963-72, Adviser for The Queen's Works of Art 1972-; Trustee, Whitechapel Art Gallery 1949-74; Chair. Furniture History Soc. 1966-; Slade Prof. of Fine Art, Oxford Univ. 1969-70; Kress Prof., Washington 1975-76; Chair. Walpole Soc. 1970-77; Hon. M.A. (Oxford) 1977. *Publications:* Canaletto 1949, Southill, A Regency House (with others) 1951, Catalogue of the Furniture in the Wallace Collection 1956, Louis XVI Furniture 1959 (revised French edn. 1963), The Choiseul Gold Box 1963, Wrightsman Catalogue (vols. I, II) 1966 (vols. III, IV) 1970 (vol. V) 1974, Eighteenth Century Gold Boxes of Europe (with others), The Guardi Family of Painters 1966, Tiepolo 1966, Fragonard 1967, The French Bronze 1500-1800 1968, Catalogue of Pictures and Drawings in the Wallace Collection (16th edn.) 1968. *Leisure interests:* chinoiserie, collecting Western Americana. *Address:* c/o Ch'eng Huam, 33 Whittingstall Road, London, S.W.6, England; 92 Linden Lane, Princeton, N.J. 08540, U.S.A.

WATSON, James Dewey, B.S., PH.D.; American biologist; b. 6 April 1928, Chicago, Ill.; s. of James D. and Jean Mitchell Watson; m. Elizabeth Lewis 1968; two s.; ed. Univ. of Chicago, and Univ. of Indiana; Research Fellow, U.S. Nat. Research Council, Univ. of Copenhagen 1950-51; Fellow U.S. Nat. Foundation, Cavendish Laboratory, Univ. of Cambridge, England 1951-53, 1955-56; Senior Research Fellow in Biology, Calif. Inst. of Tech. 1953-55; Asst. Prof. of Biology, Harvard Univ. 1956-58, Assoc. Prof. 1958-61, Prof. 1961-76; Dir. Cold Spring Harbor Laboratory 1968-; mem. Nat. Acad. of Sciences, Danish Acad. of Arts and Sciences, American Acad. of Arts and Sciences, American Soc. of Biological Chemists; Senior Fellow, Soc. of Fellows, Harvard Univ. 1964-70; Hon. Fellow of Clare Coll., Univ. of Cambridge 1967; mem. American Philosophical Soc. 1978; Eli Lilly Award in Biochem. 1959, Lasker Prize (American Public Health Assn.) 1960, Nobel Prize for Medicine (with F. H. C. Crick and M. F. H. Wilkins) 1962, John J. Carty Gold Medal (Nat. Acad. of Sciences) 1971, Medal of Freedom 1977, and other awards; Hon. D.Sc. (Chicago, Indiana, Long Island, Adelphi, Brandeis, Hofstra, Harvard Univs., Albert Einstein Coll. of Medicine), Hon. LL.D. (Notre Dame). *Publications:* Molecular Biology of the Gene 1965 (2nd edn. 1970, 3rd edn. 1976), The Double Helix 1968; papers on structure of deoxyribonucleic acid (DNA), on protein synthesis and on the induction of cancer by viruses. *Address:* Cold Spring Harbor Laboratory, Cold Spring Harbor, Long Island, New York, N.Y. 11724 (Office); Bungtown Road, Cold Spring Harbor, New York, N.Y. 11724, U.S.A. (Home). *Telephone:* (516) 692-6660.

WATSON, Thomas J., Jr.; American business executive; b. 8 Jan. 1914, Dayton, Ohio; m.; six c.; ed. Brown Univ.; with Int. Business Machines Corpn. 1937-40; with U.S. Air Force 1940-45; Dir. Int. Business Machines Corpn. 1946-, Pres. 1952-61; Chief Exec. Officer 1956-71, Chair. of Board 1961-71, Chair. Exec. Cttee. 1971-; Trustee, Brown Univ., Calif. Inst. of Tech., American Museum of Nat. History, Inst. for Advanced Study, John F. Kennedy Library, Mayo Foundation, Mystic Seaport Inc.; Dir. Pan American World Airways, Time Inc.; Citizen Regent Smithsonian Inst.; mem. Nat. Advisory Council, Boy Scouts of America, Council on Foreign Relations; Graduate mem. of The Business Council; Sr. Fellow Woodrow Wilson Nat. Fellowship Foundation; several hon. degrees; Army Commendation Ribbon, U.S. Air Medal, Presidential Medal of Freedom, Légion d'honneur, other foreign awards; nominated Amb. to U.S.S.R. July 1979. *Address:* Old Orchard Road, Armonk, New York, N.Y. 10504 (Office); Meadowcroft Lane, Greenwich, Conn., U.S.A. (Home.)

WATT, Rt. Hon. Hugh, P.C.; New Zealand politician; b. 1912; ed. Seddon Technical Coll.; fmr. dir. in sheetmetal and eng. co.; mem. Parl. for Onehunga 1953-75; Minister of Works and Electricity 1957-60; Deputy Prime Minister 1972-74, Acting Prime Minister Aug.-Sept. 1974, Minister of Labour 1972-74, of Works and Devt. 1974-75; mem. Cabinet to Dec. 1975; High Commr. in U.K. and Amb. to Ireland 1975-76; Commr., New Zealand Accident Compensation Comm. 1976-. *Address:* New Zealand Accident Compensation Commission, Private Bag, Wellington, New Zealand.

WATT, (John) David Henry; British journalist and specialist in international affairs; b. 9 Jan. 1932, Edinburgh; s. of Rev. John Hunter Watt; m. Susanne Burchardt 1968; four s.; ed. Marlborough and Hertford Coll., Oxford; Dramatic Critic Spectator 1956-57; Diplomatic Corresp. The Scotsman 1958-60; Common Market Corresp. Daily Herald 1960-61; Political Corresp. Spectator 1962-63; Washington Corresp. Financial Times 1964-67, Political Editor 1968-77; Visiting Fellow All Souls Coll. Oxford 1972-73; Dir. Royal Inst. of Int. Affairs 1978-. *Leisure interests:* music, chess, golf. *Address:* Royal Institute of International Affairs, Chatham House, 10 St. James's Square, London, SW1Y 4LE (Office); 18 Groveway, London, S.W.9, England (Home). *Telephone:* 01-930 2233 (Office).

WATTS, Helen, C.B.E.; British contralto; b. 7 Dec. 1927, Milford Haven, Wales. Singer in Glyndebourne and BBC choruses; toured Russia with English Opera Group 1964; Concert tours in U.S.A. 1967-; has appeared with all major European and American orchestras; numerous recordings; has sung at the Salzburg Festival, Covent Garden and the Hong Kong Festival; major appearances include: The Ring at Covent Garden; Mozart Opera at Salzburg Festival; four Promenade concerts 1974. *Recordings include:* Handel Arias, Orfeo, B Minor Mass, Beethoven's Mass in C Minor, The Apostles, Götterdämmerung. *Leisure interest:* gardening. *Address:* c/o Harold Holt Ltd., 134 Wigmore Street, London, W1H 0DJ, England. *Telephone:* 01-935 2331.

WAUGH, Alec; British novelist; b. 8 July 1898, London; s. of Arthur Waugh and Catherine Raban; brother of the late Evelyn Waugh; m. 1st Joan Chirnside 1932 (died 1969), two s. one d.; m. 2nd Virginia Sorensen 1969; ed. Sherborne and Royal Mil. Coll., Sandhurst; served with Dorset Regt. First World War, rejoined Regt. 1939, served with B.E.F. France 1940; Staff Capt. Mines Dept. 1940, M.E.F. 1941-42, P.A.I.C. 1943-45, retd. with rank of Maj. 1945. *Publications:* The Loom of Youth 1917, Kept 1925, Nor Many Waters 1928, Hot Countries 1930, Most Women . . . 1931, So Lovers Dream 1931, Wheels Within Wheels 1933, The Balliols 1934, Jill Somerset 1936, Going Their Own Ways 1938, No Truce with Time 1941, His Second War 1944, Unclouded Summer 1948, The Lipton Story 1950, Where the Clocks Chime Twice 1952, Guy Renton 1953, Island in the Sun 1956, The Sugar Islands 1958, In Praise of Wine 1959, Fuel for the Flame 1960, My Place in the Bazaar 1961, The Early Years of Alec Waugh 1962, A Family of Islands 1964, The Mules on the Minaret 1965, My Brother Evelyn and Other Profiles 1967, Wines and Spirits 1968, A Spy in the Family 1970, Bangkok: the Story of a City 1970, The Fatal Gift 1973, A Year to Remember: an autobiographical account of 1931 1975, Brief Encounter (novel based on play by Noel Coward) 1975, Married to a Spy 1976, The Best Wine Last: An Autobiography 1932-1969. *Address:* c/o A. D. Peters Ltd., 10 Buckingham Street, London, W.C.2, England.

WAY, Sir Richard, K.C.B., C.B.E.; British civil servant and university administrator; b. 15 Sept. 1914, London; s. of Frederick Way and Clara Way (née Willetts); m. Ursula Joan Starr 1947; one s. two d.; ed. Polytechnic Secondary School, London; joined Civil Service 1933; Perm. Under-Sec. of State for War 1960-63; Perm. Sec. Ministry of Aviation 1963-66; Chair. Lansing Bagnall Ltd. 1967-69; Chair. London Transport 1970-74; Principal, King's Coll., London 1975-; American Medal of Freedom (with bronze palm) 1946; Commdr. Order of St. John of Jerusalem 1974. *Address:* Manor Farm, Shalden, Alton, Hants., England. *Telephone:* Alton 82383.

WAŻYK, Adam; Polish poet; b. 17 Nov. 1905, Warsaw; s. of Beniamin and Hanna Ważyk; m. Maria Krawczyk 1948; two d.; ed. Univ. of Warsaw; Co-ed. Kuźnica (weekly) 1945-50; Ed. Twórczość (monthly) 1950-54; Polish PEN-Club Award 1950, Alfred Yurzykowski Foundation Award (New York) 1977; State Prize 1953; Commdr. Cross of Order Polonia Restituta 1955; Medal of 30th Anniversary of People's Poland 1974, Cross of Gruenwald. *Publications:* Verse: Wiersze zebrane (Collected Poems), Poemat dla dorosłych (A Poem for Adults) 1955, Labirynt (Labyrinth), Wagon (The Carriage), Zdarzenia (Events) 1977; Novels: Mity rodzinne (Family Myths), Epizod (Episode); Essays: Kwestia gustu (Matter of Taste) 1967, Gra i doświadczenie (The Play and the Experience) 1974, Dziwna historia awangardy (Strange History of Avant-Garde) 1976; Translations: Surrealism (anthology), numerous translations of French and Russian poets and of Horatius. *Leisure interest:* mathematics. *Address:* Aleja Róż 8, 00-556 Warsaw, Poland.

WEAVER, Robert C., B.S., M.A., PH.D.; American economist and government official; b. 29 Dec. 1907, Washington, D.C.; s. of Mortimer G. Weaver and Florence Freeman Weaver; m. Ella Haith Weaver 1935; one s. (deceased); ed. Harvard Univ.; Adviser on Negro Affairs (Dept. of the Interior) 1933-37; Consultant (Housing Div., Public Works Admin.) 1934-37; Special Asst. to Admin., U.S. Housing Authority 1937-40; Chief, Negro Employment and Training (Office of Production Man. and later War Production Board) 1940-44; Visiting Prof. New York Univ. 1948-50; Dir. Opportunity Fellowships (J. H. Whitney Foundation) 1950-55; Dep. Commr. of Housing, N.Y. State 1955, Rent Admin. 1955-59; Consultant, Ford Foundation 1959-60; Vice-Chair. Housing and Redevt. Board, N.Y. City 1960-61; Admin. Housing and Home Finance Agency 1961-66; fmr. Chair. Nat. Assn. for the Advancement of Colored People; mem. Advisory Comm. U.S. Housing Census for 1960, Nat. Comm. for Selection (Fulbright Fellowships), Exec. Cttee. of Action; Dir. Lavenburg Foundation; Sec. Dept. of Housing and Urban Devt. 1966-68; Pres. Bernard-Baruch Coll., City Univ. of New York (C.U.N.Y.) 1969-70; Distinguished Prof. of Urban Affairs, Hunter Coll., C.U.N.Y. 1970-; Chair. of Board FNMA 1961-68; mem. Board Municipal Assistance Corpn., New York 1975-; LL.D. (Harvard). *Publications:* Negro Labor: A National Problem 1946, The Negro Ghetto 1948, The Urban Complex 1964, Dilemmas of Urban America 1965. *Address:* 790 Madison Avenue, New York, N.Y. 10021 (Office); 215 East 68th Street, New York, N.Y. 10021, U.S.A. (Home). *Telephone:* (212) 570-5595.

WEBB, James Edwin, A.B.; American government official and industrialist; b. 7 Oct. 1906, Granville County, N.C.; s. of John Frederick and Sarah Gorham Webb; m. Patsy Aiken Douglas 1938; one s. one d.; ed. Univ. of N. Carolina and George Washington Univ. Law School; employed at R. G. Lassiter & Co., Raleigh, N.C. 1924-25; Bureau of Educational Research Univ. of N.C. 1928-29; Parham & Lassiter (Attorneys) Oxford, N.C. 1929-30; Sec. to Congressman Edward W. Pou 1932-34; Personnel Dir. and Asst. to Pres., Sperry Gyroscope Co. Inc., Brooklyn, N.Y. 1936-41, Sec. and Treas. 1941-43, Vice-Pres. 1943-44; Gardner, Morrison & Rogers (Attorneys), Washington, D.C. 1945-46; Exec. Asst. to Under-Sec. of Treasury 1946; Dir. Bureau of Budget 1946-49; Under-Sec. of State 1949-52; Deputy Gov. IMF and IBRD 1949-52; Dir. Kerr-McGee Oil Industries Inc. 1952-61, 1969-; Admin. Nat. Aeronautics and Space Admin. (NASA) 1961-68; Dir. Gannett Co. 1969-, Sperry Rand Corpn. 1969-, McGraw-Hill Inc. 1972-; Trustee George Washington Univ. 1951-63, Cttee. for Econ. Devt. 1952, Nat. Geographic Soc. 1966-; mem. Nat. Acad. of Public Admin. 1969-, Treas. 1969-73; Regent, Smithsonian Inst. 1970-; mem. Govt. Procurement Comm. 1972-73; Chair. Meridian House Foundation, Washington, D.C. 1962-70; mem. American Bar Assn., Bar Assn. of D.C., Soc. of Public Administrators (Pres. 1966-67), Acad. of Political and Social Science; Hon. Sc.D. (Notre Dame, Washington, New York, Brown etc.), Hon. LL.D. (Syracuse) and others; Collier Trophy 1966, Oklahoma Hall of Fame 1967; NASA Distinguished Service Medal 1968; President's Medal of Freedom 1968; Goddard Memorial Trophy 1971; N. Carolina Public Service Award 1971, Oklahoma State Univ. Henry G. Bennett Distinguished Service Award 1973, Gen. Accounting Office Award for Public Service 1973. *Publications:* Governmental Manpower for Tomorrow's Cities 1962, Space Age Management 1968, NASA as an Adaptive Organization 1968, Leadership Evaluation in Large-Scale Efforts 1972, Management Leadership and Relationships 1972. *Address:* 1771 N Street, N.W., Washington, D.C. 20036 (Office); 2800 36th Street, N.W., Washington, D.C. 20007, U.S.A. (Home).

WEBER, Ernst, D.SC., D.PHIL., D.ENG.; Austrian engineer; b. 6 Sept. 1901, Vienna; s. of Hermann Rudolf Weber and Josefine Pauline Swoboda; m. 1st Irma Lintner (divorced 1933), 2nd Charlotte Sonya Escherich 1936; two step d.; ed. Vienna Technical Univ.; Research Engineer Oesterreichische Siemens-Schuckert Co. Vienna 1924-29; Design Engineer Siemens-Schuckert Co. Berlin 1929-30; Visiting Prof. Polytechnic Inst. of Brooklyn, N.Y. 1930-31, Research Prof. of Electrical Eng. 1931-41, Head Research and Graduate Study in Electrical Eng. 1942-45; Head Dept. of Electrical Eng. and Dir. of Microwave Research Inst. 1945-57, Vice-Pres. for Research 1957-63; Pres. Polytechnic Inst. of Brooklyn 1957-69, Pres. Emer.; Consultant PRD Electronics Inc.; Founding mem. Nat. Acad. of Eng.; mem. Nat. Acad. of Sciences, Nat. Research Council Comm. on Sociotechnical Systems; Pres. Inst. Radio Engineers 1959; Pres. Inst. of Electrical and Electronics Engineers 1963. *Leisure interests:* mountain climbing, music. *Address:* National Academy of Sciences, 2101 Constitution Avenue, N.W., Washington, D.C. 20418 (Office); P.O. Box 1619, Tryon, N.C. 28782, U.S.A. (Home). *Telephone:* (202) 389-6331 (Office); (704) 859-6224 (Home).

WEBER, Prof. Gerhard; German architect; b. 11 June 1909, Mylau, Saxony; m. Elise Ebert; one s.; ed. Kunstgewerbeakademie, Dresden, and Bauhaus, Dessau/Berlin; Prof. Emer. Tech. Univ. Munich; buildings: industrial and administrative, swimming pools, radio and television studios of the Hessischer Rundfunk; AFN Frankfurt; Deutschlandfunk Köln; Staatsoper Hamburg, Nationaltheater Mannheim; August-Thyssen-Hütte laboratories; Experimental Atomic reactor, Garching; Admin. bldgs. Hoechst AG. *Leisure interests:* objets d'art, fruit and viticulture. *Address:* 8131 Allmannshausen/Obb., Zieglerweg 14, Federal Republic of Germany. *Telephone:* 08151 5816.

WEBSTER, James Joseph, A.A.S.A.; Australian politician; b. 14 June 1925, Flinders Island, Tasmania; m. Jean Elizabeth Webster; four s.; ed. Caulfield Grammar School, Royal Melbourne Tech. Coll., YMCA Educational School; early career in wool production, dairy farming and cattle; Senator for Victoria 1964-, Deputy Pres. of Senate and Chair. of Cttees. 1974-75; leader of Nat. Country Party in Senate 1976-; Minister of Science Dec. 1975-, of Environment Dec. 1978-; mem. Board Victorian School for Deaf Children

1954-73; mem. Senate Off-Shore Petroleum Resources Cttee; mem. World Work Cttee., Nat. YMCA 1970; first Australian Minister to visit the South Pole. *Address:* Parliament House, Canberra, A.C.T. 2600; Mickleham Road, Yuroke, Victoria, Australia (Home).

WEBSTER, William Hedgcock, LL.B.; American judge and government official; b. 6 March 1924, St. Louis, Mo.; s. of Thomas M. and Katherine (Hedgcock) Webster; m. Drusilla Lane 1950; one s. two d.; ed. Amherst Coll., Washington Univ. Law School; admitted to Missouri Bar 1949; attorney with Armstrong, Teasdale, Kramer and Vaughan, and predecessors, St. Louis 1949-50, 1952-59, partner 1956-59, 1961-70; U.S. District Attorney, Eastern Mo. District 1971-73, U.S. Court of Appeals 1973-78; Dir. FBI Feb. 1978; part-time instructor, Washington Univ. Law School 1962; Chair. St. Louis County Decent Lit. Comm. 1963-; Dir. Visiting Nurse Assn. 1961-68; Trustee, Washington Univ. 1974-; served as Lieut. U.S.N.R. 1943-46, 1951-52; mem. American, Fed., Mo., and St. Louis Bar asscns., American Law Inst., Mo. Assn. Republicans (Pres. 1958); Fellow, American Bar Foundation. *Leisure interest:* tennis. *Address:* Federal Bureau of Investigation, Ninth Street and Pennsylvania Avenue, Washington, D.C. 20535 (Office); 49 Godwin Lane, St. Louis, Mo. 63124, U.S.A. (Home).

WECKMANN-MUÑOZ, Luis, PH.D., LL.D., M.A.; Mexican diplomatist and historian; b. 7 April 1923, Ciudad Lerdo, Durango; s. of José Bernardo Weckmann and Ana Muñoz; m. Ibone de Belausteguigoitia 1972; ed. Univ. Nacional Antónoma de México, Univs. of Paris and Calif., Inst. des Hautes Etudes Int. and Ecole des Chartes, Paris; successively Sec. of Legation and Chargé d'affaires, Czechoslovakia, Sec. of Embassy and Chargé d'affaires, France 1952-59; Dir.-Gen. for Int. Educ. Affairs and Exec. Sec.-Gen. Mexican Nat. Council for UNESCO 1959-64; Minister Plenipotentiary and Chargé d'affaires, France 1965-66; Amb. to Israel 1967-69, to Austria 1969-72, to Fed. Repub. of Germany 1973-74; Special Rep. of UN Sec.-Gen. to Iran and Iraq 1974; Special Rep. of UN Sec.-Gen. in Cyprus 1974-75; Amb. to Iran 1976-; Vice-Pres. 1st Inter-american Meeting on Science and Tech., Washington; UNESCO's expert for Latin America on Cultural Exchanges. *Publications:* La Sociedad Feudal 1944, Las Bulas Alejandrinas de 1943 y la Teoría Política del Papado Medieval 1949, El Pensamiento Político Medieval y una nueva base para el Derecho Internacional 1950, Les origines des Missions Diplomatiques Permanentes 1953, Panorama de la Cultura Medieval 1962, Las Relaciones Franco-Mexicanas (1823-1885) vol. I 1961, vol. II 1963, vol. III 1972. *Leisure interest:* reading. *Address:* Mexican Embassy, Ave. Pahlavi, rue Dolatshahi 22, Teheran, Iran.

WEDDERBURN OF CHARLTON, Baron (Life Peer), cr. 1977; **Kenneth William Wedderburn,** M.A., LL.B.; British professor of law; b. 13 April 1927, London; s. of Herbert John and Mabel Ethel Wedderburn; m. 1st Nina Salaman 1951 (divorced 1961), one s. two d.; m. 2nd Dorothy Cole 1962 (divorced 1969); m. 3rd Frances Ann Knight 1969, one s.; ed. Aske's (Hatcham) Grammar School, Whitgift School, Queen's Coll., Cambridge; Lecturer in Law, Cambridge Univ. 1952-64; Fellow, Clare Coll., Cambridge; Cassel Prof. of Commercial Law, L.S.E. 1964-; Visiting Prof., Harvard Law School 1969-70, Univ. of Calif., Los Angeles 1969; Gen. Ed. Modern Law Review 1970-; Chair. Trades Union Congress Ind. Review Cttee. 1975-; Barrister at Law (Middle Temple) 1953-; Chancellor's Medal for English Law (Cambridge) 1949. *Publications:* The Worker and the Land 1965, Employment Grievances and Disputes Procedures in Britain (with P. L. Davies) 1969, Cases and Materials on Labour Law 1967, Industrial Conflict—A Comparative Survey (with B. Aaron) 1972, Democrazia Politica e Democrazia Industriale 1978; co-editor Modern Company Law (with L. C. S. Gower) 1969; Industrial Conflict 1972; numerous articles on legal subjects. *Leisure interests:* pop music, Charlton Athletic Football Club. *Address:* London School of Economics, Aldwych, London, W.C.2 (Office); 29 Woodside Avenue, Highgate, London, N.6, England (Home). *Telephone:* 01-405 7686 (Office); 01-444 8472 (Home).

WEDEL, Cynthia C., M.A., PH.D.; American voluntary worker and church and community lecturer; b. 26 Aug. 1908, Dearborn, Mich.; d. of Arthur Pierson Clark and Elizabeth (née Haigh) Clark; m. Rev. Theodore O. Wedel 1939 (died 1970); ed. Northwestern Univ., George Washington Univ.; professional Church work, Episcopal Church, New York 1931-39; Teacher, Nat. Cathedral School, Washington, D.C. 1939-49; Lecturer, American Univ. 1957-60; Assoc. Gen. Sec. Nat. Council of Churches 1962-69; Assoc. Dir. Center for Voluntary Soc. 1969-73; Pres. Nat. Council of Churches 1969-72, World Council of Churches 1975-; Chair. Nat. Council of Orgs. for Children and Youth 1973-75; Trustee, Virginia Theological Seminary 1971-, Washington Theological Consortium 1972-; Board mem. Girl Scouts of the U.S.A. 1960-66; Nat. Chair. of Volunteers, American Red Cross 1973-; Church Woman of the Year 1957; Hon. D.Lit. (Western Coll., Elmshurst Coll., Moravian Coll., Fordham Univ., Smith Coll., Miami Univ.), Hon. DD. (Gen. Theological Seminary, Bridgewater Coll.). *Publications:* Happy Issue 1962, Faith or Fear and Future Shock 1974; many articles in journals and magazines. *Leisure interests:* travel, reading. *Address:* National Headquarters, American Red Cross, Washington, D.C. 20006 (Office); 4800 Fillmore Avenue, Alexandria, Va. 22311, U.S.A. (Home). *Telephone:* (202) 857-3634 (Office); (703) 578-4978 (Home).

WEDGWOOD, Dame (Cicely) Veronica, O.M., D.B.E., M.A., F.R.HIST.S., F.R.S.L.; British author and historian; b. 20 July 1910; d. of the late Sir Ralph Wedgwood; sister of Sir John Wedgwood (*q.v.*); ed. Lady Margaret Hall, Oxford; Pres. English Centre Int. PEN Club 1951-57; Pres. English Assn. 1955-56; Clark Lecturer, Cambridge Univ. 1957-58; Northcliffe Lecturer, Univ. of London 1959; mem. Arts Council 1958-61, 1966-67; mem. Royal Comm. on Historical MSS 1953-77, Inst. of Advanced Study, Princeton 1952-68; Trustee Nat. Gallery, London 1963-68, 1970-76; Officer, Order of Orange-Nassau, Goethe Medal 1959; mem. American Acad.; Fellow, British Acad. 1975; Hon. D.Litt. (Univs. of Oxford, Sheffield, Keele, Sussex, Smith Coll., Liverpool and Harvard Univ.), Hon. LL.D. (Glasgow). *Publications:* Strafford 1935, The Thirty Years' War 1938, Oliver Cromwell 1939, William the Silent 1944, Velvet Studies 1946, Richelieu 1949, English Literature in the Seventeenth Century 1950, The Last of the Radicals 1951, Montrose 1952, The King's Peace 1955, The King's War 1958, Truth and Opinion 1960, Poetry and Politics Under the Stuarts 1960, Thomas Wentworth: A Revaluation 1961, The Trial of Charles I 1964, Milton and his World 1969, The Political Career of Rubens 1975. *Leisure interests:* poetry, painting, theatre. *Address:* c/o Department of History, University College, London, W.C.1, England.

WEDGWOOD, Sir John Hamilton, Bt., T.D., F.R.S.A., F.R.G.S.; British master potter; b. 1907, Newcastle upon Tyne; s. of Sir Ralph L. Wedgwood and Iris Veronica (née Pawson); brother of Dame Veronica Wedgwood (*q.v.*); m. Diana Hawkshaw 1933 (died 1976); four s. (one deceased) one d.; ed. Winchester Coll., Trinity Coll., Cambridge, and in France, Germany, etc.; joined Josiah Wedgwood and Sons Ltd. 1931, Dir. 1935 and Deputy Chair. 1955-66; Chair. Artistic Framing Ltd. 1970-; mem. British Nat. Export Council 1964-66; Chair. Anglo-American Relations Cttee., Lakenheath Airbase 1972-76; Hon. LL.D. (Birmingham). *Leisure interests:* mountaineering, walking, spelaeology, travel. *Address:* Artistic Framing Limited, Dobles Lane, Holsworthy, North Devon, EX22 6HN, England. *Telephone:* Holsworthy 253332.

WEE CHONG JIN, M.A.; Singapore judge; b. 28 Sept. 1917, Penang, Malaya; s. of late Wee Gim Puay and Lim Paik Yew; m. Cecilia Mary Henderson 1955; three s. one d.; ed. Penang Free School, St. John's Coll., Cambridge; called to Bar, Middle Temple, London 1938, admitted Advocate and Solicitor of Straits Settlements 1940; practised in Penang and Singapore 1940-57; Puisne Judge, Singapore 1957; Chief Justice 1963-. *Leisure interest:* golf. *Address:* Chief Justice's Chambers, Supreme Court, Singapore 6, Singapore. *Telephone:* 360644.

WEEDON, Basil Charles Leicester, C.B.E., F.R.S., D.SC., F.R.I.C.; British chemist and university administrator; b. 18 July 1923, London; s. of the late Charles William Weedon; m. Barbara Mary Dawe 1959; one s. one d.; ed. Wandsworth School, Imperial Coll. of Science and Tech., Univ. of London; Research Chemist, ICI Ltd. (Dyestuffs Div.) 1945-47; Lecturer in Organic Chem., Imperial Coll. of Science and Tech. 1947-55, Reader 1955-60; Prof. of Organic Chem., Queen Mary Coll., Univ. of London 1960-75; Vice-Chancellor, Univ. of Nottingham 1976-; Chair. Food Additives and Contaminants Cttee. 1968-; Scientific Ed., Pure and Applied Chemistry 1960-75; mem. EEC Scientific Cttee. for Food 1974-; Meldola Medal, Royal Inst. of Chem.; Tilden Lecturer of Chem. Soc. *Publications:* numerous papers in scientific journals, mainly in Journal of the Chemical Society. *Address:* University of Nottingham, University Park, Nottingham, NG7 2RD, England. *Telephone:* Nottingham 56101.

WEEKS, Edward A., B.S., LITT.D.; American journalist; b. 19 Feb. 1898, Elizabeth, New Jersey; s. of Edward A. Weeks and Frederika Suydam; m. 1st Frederika Watriss 1925 (died 1970); one s. one d.; m. 2nd Phoebe Adams 1971; ed. Cornell, Harvard and Cambridge Univs.; MSS. reader and salesman with Horace Liveright Inc., Assoc. Ed. Atlantic Monthly 1924-28, Ed. 1938-66; Ed. Atlantic Monthly Press 1928-37, Senior Ed. 1966-; Overseer, Harvard Univ. 1945-51; Trustee, Wellesley Coll. 1947-65, Colonial Williamsburg 1958-67, Pittsburgh and Rochester Univs. 1960-68; Dir. Magazine Publrs.' Assn. 1961-63; Dir. American Field Service 1963-71, United Negro Coll. Fund 1963-; Fellow, American Acad. Arts and Sciences; Henry Johnson Fisher Award 1968; Irita Van Doren

Award 1970; numerous hon. degrees. *Publications:* This Trade of Writing 1935, Great Short Novels (ed.) 1941, The Pocket Atlantic (Ed.) 1946, The Open Heart 1955, Jubilee—One Hundred Years of the Atlantic (Ed. with Emily Flint) 1957, In Friendly Candor 1959, Breaking into Print 1962, Boston: Cradle of Liberty 1965, The Lowells and Their Institute 1966, Fresh Waters 1968, The Moisie Salmon Club: A Chronicle 1971, My Green Age 1974, Myopia, A Centennial History, 1875-1975 1975. *Leisure interests:* conservation, fishing, golf, books. *Address:* 8 Arlington Street, Boston, Mass. 02116 (Office); 59 Chestnut Street, Boston, Mass. 02108, U.S.A. (Home). *Telephone:* (617) 536-9500 (Office).

WEERATUNGE, Conrad Edward Somadasa, M.B., B.S., F.R.C.G.P.; Ceylonese diplomatist and health specialist; b. 30 July 1924; s. of late Mr. and Mrs. William Weeratunge; m. Dayanitha Nathalie Gunaratne 1950; one s. three d.; ed. Royal Coll., Colombo and Univ. of Ceylon; Mem. of Court, Univ. of Ceylon 1953-59, Board of Regents 1971-72; Sec., Ministry of Health 1970-74; Chair. Nat. Comm. of Health Planning 1971-74; Dir. State Pharmaceutical Corpn. 1971-74; Chair. Advisory Comm. on Post-graduate Medical Educ. 1971-72; Chair. WHO Regional Comm. 1972, Tech. Discussions, 27th World Health Assembly 1974; WHO Expert Adviser Panel, Public Health Admin. 1972-; Founder Pres. Sri Lanka Assen. for Population Studies 1972-73; Amb. to U.S.S.R., Romania, Poland, Czechoslovakia, Hungary and German Democratic Repub. 1974-77; Chair. B.P. de Silva Co. (Colombo) Ltd., (Ceylon) Ltd., (Singapore) Ltd. 1978-. *Leisure interests:* photography, music. *Address:* 5 Wijerama Road, Gangodawila, Nugegoda, Sri Lanka. *Telephone:* 22223.

WEESE, Harry; American architect; b. 30 June 1915, Evanston, Ill.; s. of Harry Ernest Weese and Marjorie Mohr Weese; m. Kate Baldwin 1945; three d.; ed. Yale Univ. School of Architecture, Mass. Inst. of Technology, Cranbrook Acad. of Art; Research Asst. Bemis Housing Foundation, Mass. Inst. Tech. (prefabricated and low-cost housing) 1939; Principal, Baldwin & Weese (architects) 1940-42; U.S. Navy 1942-46; Senior Designer, Chicago office Skidmore, Owings & Merrill 1946-47; ind. practice 1947-; mfg. plant for Cummins Engine Co., Columbus, Indiana 1950-64; Pres. Chicago Chapter, American Inst. of Architects 1975; mem. Nat. Acad. of Design, Nat. Council on the Arts; fmr. mem. Pres.'s Citizens' Advisory Cttee. on Environmental Quality. *Principal works:* U.S. Embassy, Accra, Ghana, Hyde Park Redevelopment Project, Chicago, Arena Stage, Washington D.C., Elvehjem Art Center, Univ. of Wisconsin, Milwaukee Center for the Performing Arts, Wisconsin, Metro Rapid Rail Transit System, Washington Metropolitan Area Transit Authority, Washington D.C., IBM Building, Milwaukee, Time & Life Building, Chicago, Technical Center, Cummins Engine Co., Columbus, Staff Housing Air India, Bombay, Crown Center Hotel, Kansas City, Physical Education Building, Educ. and Communications Building, Univ. of Illinois Chicago Circle Campus, U.S. Courthouse Annex, Chicago, Fine Arts Center, Carleton Coll., Social Sciences Campus, New York State Univ., Buffalo-Amherst Campus, Student and Fine Arts Centers, Drake Univ., Terman Eng. Center, Stanford Univ., Calif.; Loop Subway System Study, CTA Determination of System and Design Elements (with American Bechtel) for Chicago Central Transportation District; Redevt. of Station and Devt. of Air Rights, Union Station Terminal, Kansas City, Mo., Dade County Transit System, Miami, Fla. (with Kaiser Eng); Performing Arts Convention-Exposition Center; Grand Rapids, Mich.; New Town, Riyadh Int. Airport, Saudi Arabia; restoration of Adler-Sullivan Auditorium Theater, Chicago. *Leisure interests:* sailing, skiing, tennis. *Address:* 10 West Hubbard Street, Chicago, Ill. 60610 (Office); 314 West Willow Street, Chicago, Ill. 60614, U.S.A. (Home). *Telephone:* 467-7030 (Office); MI-2-1498 (Home).

WĘGRZYN, Stefan, D.ENG.; Polish scientist; b. 20 May 1925, Cracow; s. of Jan Węgrzyn and Maria Wilgocka; ed. Silesian Technical Univ., Gliwice; Asst. Electrical Dept. Silesian Tech. Univ. 1949, Asst. Prof. 1954-60, Prof. 1961-; fmr. Dir. Inst. of Complex Control Systems, Silesian Tech. Univ., now Dir. Inst. of Informatics of Real Time; Deputy Dir. for Scientific Affairs, Inst. of Automation, Polish Acad. of Sciences 1962, then Head Inst. of Complex Automation Systems; corresp. mem. Polish Acad. of Sciences 1964-73, mem. 1973-, mem. Presidium 1974-, mem. Council of Science and Technics 1972-, Deputy Dir. Centre of Scientific Research, Polish Acad. of Sciences, Katowice Voivodship; Knight's Cross of Order Polonia Restituta 1964; State Prize 1966, 1976 (collective 1st class); Medal of 30th Anniversary of People's Poland 1974; Dr. h.c. (Lille) 1973, (Univ. of Sherbrooke, Canada) 1977; Chevalier, Ordre des Palmes académiques 1978. *Publications:* Rachunek operatorowy 1955, Podstawy automatyki 1963, 1972, 1974, Calcul Opérationnel en électrotechnique 1967, Introduction à l'étude de la Stabilité dans les espaces métriques 1971. *Address:* Politechnika Sląska, 44-100 Gliwice, Katowicka 16; Konarskiego 11 m. 3, Gliwice, Poland (Home). *Telephone:* 91-46-73 (Office); 91-01-10 (Home).

WEHNER, Herbert; German journalist and politician; b. 11 July 1906; ed. Realschule; mem. Saxon Prov. Parl. 1930-32; resistance movement 1933; emigrated to various countries including U.S.S.R. and Sweden 1935-46; later Ed., Hamburg; Chair. Hamburg Union Sozialdemokratische Partei Deutschlands (SPD), Deputy Chair. Federal SPD 1958-73, Chair. Parl. Party 1969-; mem. Bundestag 1949-; Minister of All-German Affairs 1966-69. *Address:* c/o Sozialdemokratische Partei Deutschlands, 53 Bonn, Ollenhauerstrasse 1; Beim Schlump 36, Hamburg 13, Federal Republic of Germany.

WEI KUO-CH'ING; Chinese party official. b. 1914, Tunglan, Kwangsi; Regimental Commdr. 1933; on Long March 1934-35; Deputy Political Commissar 10th Army Corps, 3rd Field Army, People's Liberation Army 1949; Mayor of Foochow 1949; Gov. of Kwangsi 1955-58; Alt. mem. 8th Cen. Cttee. of CCP 1956; Sec. CCP Kwangsi 1957-61, First Sec. 1961-68; Chair. Kwangsi People's Govt. 1958-68; First Political Commissar Kwangsi Mil. District, PLA 1964-73; Sec. Cen.-South Bureau, CCP 1966; Political Commissar Canton Mil. Region, PLA 1967-; Chair. Kwangsi Revolutionary Cttee. 1968; mem. 9th Cen. Cttee. of CCP 1969; First Sec. CCP Kwangsi 1971-75; First Sec. Kwantung CCP Cttee. 1975-79; mem. Politburo, 10th Cen. Cttee. of CCP 1973, Politburo 11th Cen. Cttee. CCP 1977; Dir.-Gen. Political Dept. PLA 1977-; Exec. Chair. Praesidium and Nat. Cttee. 5th Nat. People's Congress 1978, Vice-Chair. Standing Cttee.; Div., Gen. Political Dept. PLA 1978-. *Address:* People's Republic of China.

WEI TAO-MING, LL.D.; Chinese diplomatist and politician; b. 1899; ed. Univ. de Paris à la Sorbonne; Minister of Justice 1928-29; Mayor of Nanking 1930-32; Sec.-Gen. Exec. Yuan 1937-41; Amb. to France 1941-42, to U.S.A. 1942-46; Vice-Pres. Legis. Yuan 1946-47; Gov. Taiwan Province 1947-49; Adviser to Pres. Repub. of China 1949-64; Amb. to Japan 1964-66; Minister of Foreign Affairs 1966-71. *Publication:* Le Chèque en Chine. *Address:* No. 10, Lane 119, Roosevelt Road, Sec. I, Taipei, Taiwan.

WEICHMANN, Herbert; German politician; b. 23 Feb. 1896, Landsberg; s. of Dr. Wilhelm Weichmann and Irma (née Guttentag); m. Dr. Elsbeth Greisinger 1928; one s.; ed. Univs. of Breslau, Frankfurt (Main), Heidelberg and New York; Prov. Judge, Breslau 1926-27; Prussian Govt. posts 1927-33; emigrated to France 1933-40, U.S.A. 1941-48; Pres. Hamburg Audit Court 1948-57; Senator for Finance, Hamburg 1957-65; Chief Burgomaster of Hamburg 1965-71; mem. Bundesrat; Pres. Bundesrat 1968-69; Vice-Pres. Int. Inst. of Public Admin.; Social Democrat; Pres. Hamburg Acad. of Publishing and Journalism; hon. mem. Deutscher Staedtetag; Hon. Senator, Univ. of Hamburg, Hon. Prof. 1964-; hon. citizen Hamburg and Minneapolis, U.S.A.; Freiherr von Stein Prize 1974. *Address:* Am Feenteich 8, Hamburg 1976, Federal Republic of Germany.

WEICKER, Lowell Palmer, Jr., LL.B.; American senator; b. 16 May 1931, Paris, France; s. of Lowell Palmer Weicker and Mary (Bickford) Paulsen; m. M. Camille Di Lorenzo Butler; four s. three d.; ed. Lawrenceville School, Yale Univ. and Univ. of Virginia; State Rep. in Conn. Gen. Assembly 1963-69; U.S. Rep., Fourth Congressional District, Conn. 1969-71; Senator from Conn. 1971-; 1st Selectman of Greenwich 1964-68; mem. Select Cttee. for Investigation of the Watergate Case 1973; Senate Cttee. on Govt. Operations, Commerce, Select Cttee. on Small Businesses; Republican. *Leisure interests:* tennis, sailing, history. *Address:* 342 Russell Building, Washington, D.C. 20510, U.S.A. *Telephone:* (202) 225-4041.

WEIDENFELD, Baron (Life Peer), cr. 1976, of Chelsea in Greater London; **Arthur George Weidenfeld,** Kt; British publisher; b. 13 Sept. 1919; s. of Max and Rose Weidenfeld; m. 1st Jane Sieff 1952, one d.; m. 2nd Barbara Skelton Connolly 1956; m. 3rd Sandra Whitney Payson 1966; ed. Piaristen Gymnasium, Vienna, Univ. of Vienna and Konsular Akademie; B.B.C. Monitoring Service 1939-42; B.B.C. News Commentator on European Affairs on B.B.C. Empire and N. American service 1942-46; Foreign Affairs columnist, News Chronicle 1943-44; Political Adviser and Chief of Cabinet of Pres. Weizmann of Israel 1949-50; founder of Contact Books 1945, Weidenfeld & Nicolson Ltd 1948; Chair. Weidenfeld & Nicolson Ltd. 1948-, Arthur Barker Ltd.; Vice-Chair. Board of Govs., Ben Gurion Univ. of the Negev, Israel. *Publication:* The Goebbels Experiment 1943. *Leisure interests:* opera, travel. *Address:* 9 Chelsea Embankment, London, S.W.3, England.

WEIGL, Henry, B.A., LL.B.; American business executive; b. 6 July 1912, New York; s. of Otto and Lottie Weigl; m. 1st Gladys Hines 1940 (deceased), 2nd Marie Babington 1969; two d.; ed. New York Univ., and Harvard Univ.; Standard Brands Inc. 1943, Gen. Counsel

1948-56, Vice-Pres. 1954-56, Exec. Vice-Pres. 1956-60, Dir. 1956-77, Pres. and mem. Exec. Cttee. 1960-75, Chief Exec. Officer 1964-75, Chair. 1975-77. *Address:* 164 Clapboard Ridge Road, Greenwich, Conn. 06830, U.S.A.

WEINBERG, Alvin M., S.M., PH.D.; American physicist and scientific administrator; b. 20 April 1915, Chicago, Ill.; s. of Jacob and Emma Levinson Weinberg; m. Margaret Despres 1940 (died 1969), two s.; m. 2nd Gene Kellerman 1974; ed. Univ. of Chicago; Biophysics research Univ. of Chicago 1939-42; Hanford reactor design Univ. of Chicago Metallurgical Laboratory 1942-45; Section Chief Physics Div., Oaks Ridge Nat. Laboratory 1945-47, Dir. Physics Div. 1947-48, Research Dir. 1948-55; Dir. Oak Ridge Nat. Laboratory 1955-73; Dir. Office of Energy Research and Devt., Fed. Energy Office 1974, Inst. for Energy Analysis 1975-; mem. Scientific Advisory Board to the Air Force 1955-59; mem. President's Science Advisory Cttee. 1960-63; Fellow, American Nuclear Soc., American Physical Soc.; mem. American Acad. of Arts and Sciences, Nat. Acad. of Eng., Nat. Acad. of Sciences, Cttee. on Science and Public Policy of Nat. Acad. of Sciences 1963-66, Council of Nat. Acad. of Sciences 1967-70, American Philosophical Soc.; Foreign mem. Royal Netherlands Acad. of Sciences; mem. Pres. Nixon's Task Force on Science Policy 1969, Nat. Cancer Plan Evaluation Cttee. 1972; co-recipient Atoms for Peace Award 1960, Ernest O. Lawrence Memorial Award of Atomic Energy Comm. 1960, Univ. of Chicago Alumni Medal 1966, Heinrich Hertz Energy Prize 1975, New York Acad. of Sciences Award 1976; contributions to nuclear tech. in reactor theory, reactor design, breeder reactor systems, implications of nuclear energy; formulation of science policy; energy supply and demand. *Publications:* The Physical Theory of Neutron Chain Reactors (with Eugene P. Wigner) 1958, Reflections on Big Science 1967. *Leisure interests:* piano, tennis, swimming. *Address:* Institute for Energy Analysis, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, Tenn. 37830 (Office); 111 Moylan Lane, Oak Ridge, Tenn. 37830, U.S.A. (Home). *Telephone:* (615) 576-3171 (Office); (615) 483-6045 (Home).

WEINBERG, Steven, PH.D.; American physicist; b. 3 May 1933, New York; s. of Fred and Eva Weinberg; m. Louise Weinberg 1954; one d.; ed. Cornell Univ., Univ. of Copenhagen and Princeton Univ.; Columbia Univ. 1957-59; Lawrence Radiation Lab. 1959-60; Univ. of Calif. (Berkeley) 1960-69; Prof. of Physics, Mass. Inst. of Technology 1969-73; Higgins Prof. of Physics, Harvard Univ. 1973-; Sr. Scientist, Smithsonian Astrophysical Observatory 1973-; Scott Lecturer, Cavendish Laboratory 1975; Co-Ed. Cambridge Univ. Press. Monographs on Mathematical Physics 1978; mem. Editorial Board of Progress in Scientific Culture, mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Council for Foreign Relations; fmr. mem. Council, American Physical Soc.; Oppenheimer Prize 1972; Richtmeyer Lecturer 1974; Dannie Heinemann Mathematical Physics Prize 1977; American Inst. of Physics—U.S. Steel Foundation Science Writing Award 1977; Silliman Lecturer, Yale 1977, Lauritsen Lecturer, Calif. Inst. of Tech. 1979, Bethe Lecturer, Cornell Univ. 1979; Hon. D.Sc. (Knox Coll.) 1978, (Chicago) 1979, (Yale) 1979. *Publications:* Gravitation and Cosmology 1972, The First Three Minutes 1977, and over 100 articles. *Leisure interest:* medieval history. *Address:* Department of Physics, Harvard University, Cambridge, Mass. 02138, U.S.A. *Telephone:* (617) 495-2867.

WEINBERGER, Caspar Willard, A.B., M.C.L.; American government official; b. 18 Aug. 1917, San Francisco; s. of Herman and Cerise Carpenter (Hampson) Weinberger; m. Jane Dalton 1942; one s. one d.; ed. Harvard Law School; served with AUS 1941-45; with Heller, Ehrman, White and McAuliffe 1947-69, partner 1959-69; mem. Calif. State Legislature 1952-58; Vice-Chair. Calif. Republican Central Cttee. 1960-62, Chair. 1962-64; Chair. Calif. Govt. Cttee. on Org. and Econ. 1967-68; Dir. of Finance, Calif. 1968-69; Chair. Fed. Trade Comm. 1970; Deputy Dir. Office of Man. and Budget 1970-72, Dir. 1972-73; Counsellor to Pres. 1973; Sec. of Health, Educ. and Welfare 1973-75; Special Counsel, Bechtel Power Corpn., San Francisco 1975-, Bechtel Inc. 1975-, Bechtel Corpn. 1975-; Chair. Pres.'s Cttee. on Mental Retardation 1973-75; Dir. Pepsico Corpn., Quaker Oats Corpn., American Ditchley Foundation, Yosemite Inst., Board Trustees John F. Kennedy Center for Performing Arts; mem. Trilateral Comm. American Bar Assn., State Bar Calif. *Address:* Bechtel Corporation, 50 Beale Street, San Francisco, Calif. 94105, U.S.A.

WEINER, Mervyn Lester, B.COM., B.PHIL.; Canadian development finance official; b. 30 Oct. 1922, Montreal; s. of Louis Weiner and Beatrice Feinstein; m. Shirley R. Hurwitz 1951; one s. one d.; ed. McGill Univ., Balliol Coll., Oxford, Univ. of Pennsylvania and Johns Hopkins Univ.; Instructor, Wharton School of Commerce and Finance, Univ. of Pennsylvania 1948-49; Instructor Johns Hopkins Univ. 1949-51; Econ. Affairs Officer UN 1950; IBRD officer 1951-, Research Economist 1951-55, Country Economist 1955-61, Loan Officer 1961-63, Div. Chief 1963-65, Econ. Adviser, later Chief Economist, Western Hemisphere Dept. 1965-69, Dir. Public Utilities Projects Dept. 1969-72, Dir. Asia Region Projects Dept. 1972-74, Regional Vice-Pres. S. Asia 1974-75, Dir.-Gen. Operations Evaluation 1975-. *Address:* 1818 H Street N.W. Washington, D.C. 20433 (Office); 3206 Cummings Lane, Chevy Chase, Md. 20015, U.S.A. (Home). *Telephone:* (202) 477-4283 (Office).

WEINSTOCK, Sir Arnold, Kt, B.SC.(ECON.), F.S.S.; British business executive; b. 29 July 1924; m. Netta Weinstock 1949; two c.; ed. Univ. of London; Junior Admin. Officer, Admiralty 1944-47; with private group of companies engaged in finance and property devt. 1947-54; Man. Dir. Radio and Allied Industries Ltd. (now Radio and Allied Holdings Ltd.) 1954-63; Dir. General Electric Co. Ltd. 1961-, Man. Dir. 1963-; Dir. Rolls-Royce (1971) Ltd. 1971-73; Hon. F.R.C.R., Hon. D.Sc. (Salford) 1975, (Aston) 1976, (Bath) 1978, (Reading) 1978, Hon. LL.D. (Leeds) 1978. *Leisure interests:* racing and breeding horses, early classical music. *Address:* 7 Grosvenor Square, London, W.1, England.

WEIR, Hon. Walter C.; Canadian politician; b. 7 Jan. 1929; s. of James Dixon Weir and Christina Maude Cox-Smith; m. Harriet Thompson 1951; three s. one d.; ed. elementary and secondary education, Portage la Prairie, Manitoba; private business (funeral director), Minnedosa, Manitoba 1953-63; Minister of Municipal Affairs, Manitoba 1961-63, Acting Minister of Public Works 1962, full Minister of Public Works Nov. 1962-66; Minister of Highways 1965-67; Leader of Manitoba Progressive Conservative Party and Premier of Manitoba 1967-1969; Leader of the Opposition June 1969-. *Leisure interests:* curling, golf. *Address:* 670 Wellington Crescent, Winnipeg 9, Manitoba, Canada (Home). *Telephone:* 284-2175 (Home).

WEISS, Gerhard, DR. RER. OEC.; German economist and politician; b. 30 July 1919, Erfurt, Thuringia; ed. Deutsche Akad. für Staats- und Rechtswissenschaft, Humboldt-Univ. Berlin; commercial training 1935-37, subsequently clerk in export firm; mem. Staff, Head of Dept. in a Thuringia Prov. Ministry 1949-51; Head of Dept., Ministry of Foreign and Inter-German Trade of D.D.R. 1951-54; Deputy Minister of Foreign and Inter-German Trade 1954-65; Deputy Chair. of Council of Ministers 1965- and Perm. Rep. of D.D.R. to Council for Mutual Econ. Assistance (COMECON) 1967-;Cand. mem., Central Cttee. of Socialist Unity Party (SED) 1967-; mem. Volkskammer 1967-; Vice-Pres. German-Arab Soc. of G.D.R. 1958-; Chair. Econ. Cttee. G.D.R.-Egypt; Vaterländischer Verdienstorden in Bronze; Orden Banner der Arbeit; Order of Merit of Repub., First Class (Egypt); Grand Cordon of Order of Repub. (Egypt), and other decorations. *Address:* Council of Ministers of D.D.R., 102 Berlin, Klosterstrasse 47, German Democratic Republic.

WEISS, Paul Alfred, PH.D.; American biologist; b. 21 March 1898, Vienna, Austria; s. of Carl S. and Rosalia Weiss; m. Maria Helene Blaschka 1926; ed. Univ. of Vienna; Asst. Dir. Biology Research Inst., Acad. of Sciences, Vienna 1922-29; Sterling Fellow, Yale Univ. 1930-32; Prof. of Zoology, Univ. of Chicago 1933-54; Prof., Rockefeller Inst., New York 1954-64; Prof. and Dean Graduate School of Biomedical Sciences, Univ. of Texas 1964-66; Prof. Emer. Rockefeller Univ. 1966-; Visiting Prof. at many Univs.; mem. Science Advisory Cttee. of Pres. of U.S.A. 1958-60; Chair. Div. Biology and Agric., Nat. Research Council 1951-55, Biology Council, Nat. Acad. Sciences 1953-58, U.S.A. Nat. Comm., Int. Union Biological Sciences 1953-64; Consultant, U.S. Dept. of State; mem. U.S. Nat. Acad. Sciences, mem. Council 1964-67; mem. Royal Swedish Acad. Science, Serbian Acad. Science, German Acad. of Science, Leopoldina, American Philosophical Soc., American Acad. Arts and Science, Max-Planck Soc.; Pres. Growth Soc. 1941, Harvey Soc. 1962-63, Int. Soc. Cell Biology 1965-68; Vice-Pres. American Assn. for Advancement of Science 1952-53; Hon. M.D., Hon. Dr. med., Hon. Sc.D., Hon. Dr. med. and surg., Hon. Dr. rer. nat.; U.S. Army-Navy Citation for Outstanding Merit, Leitz Award, Weinstein Award of UN Cerebral Palsy Assn., John F. Lewis Prize and Lashley Prize of American Philosophical Soc., and other awards. *Publications:* Entwicklungsphysiologie der Tiere 1930, Aus den Werkstätten der Lebensforschung 1931, Principles of Development 1939, Dynamics of Development: Experiments and Inferences 1968, Life, Order and Understanding 1970, Biomedical Excursions 1971, Within the Gates of Science and Beyond 1971, Hierarchically Organized Systems 1971, The Science of Life: The Living System—a System of Living 1973, Knowledge in Search of Understanding 1975, From Cell Research to Nerve Repair 1976, over 350 scientific papers on growth, development, nerve function, theoretical biology, etc. *Leisure interests:* art, writing, music. *Address:* 450 East 63rd Street, New York, N.Y. 10021, U.S.A.

WEISS, Peter; Swedish (b. German) writer; b. 1916; ed. Art Academy, Prague; emigrated from Germany 1934, lived in England 1934-36, in Czechoslovakia 1936-38, in Sweden 1939-; painter, film producer and writer; Charles Veillon Prize for Literature 1963; Lessing Prize, Hamburg 1965; Heinrich-Mann-Preis, Akademie der Künste (E. Berlin) 1966; Thomas-Dehler-Preis 1977. *Publications:* Prose: Der Schatten des Körpers des Kutschers 1960, Abschied von den Eltern 1961, Fluchtpunkt 1962, Das Gespräch der drei Gehenden 1963; Plays: Nacht mit Gästen 1963, Die Verfolgung und Ermordung Jean-Paul Marats 1964 (film 1967), Die Ermittlung 1965, Gesang vom Lusitanischen Popanz 1966, Viet-Nam Dialogue 1967, Wie dem Herrn Mockinpott das Leiden ausgetrieben wird 1968, Trotzki im Exil 1970, Hölderlin 1971, Die Ästhetik des Widerstands Roman 1976. *Address:* c/o Suhrkamp Verlag, Lindenstrasse 29-35, 6 Frankfurt-am-Main, Federal Republic of Germany.

WEISSKOPF, Victor Frederick, PH.D.; American (b. Austrian) physicist; b. 1908, Vienna; m. Ellen Trede 1934; one s. one d.; ed. Vienna and Göttingen Univs.; Research Assoc., Berlin 1931-32; Zürich Inst. of Tech. 1932-36, Rockefeller Foundation Fellow, Copenhagen and Cambridge 1936-37; Instructor of Physics, Univ. of Rochester 1937-40, Asst. Prof. 1940-43; Group Leader, Los Alamos Scientific Laboratory 1943-47; Prof. of Physics, Mass. Inst. of Tech. 1945; mem. Directorate, European Org. for Nuclear Research 1960-61, Dir. Gen. 1961-65; Pres. American Physical Soc. 1960, American Acad. of Arts and Sciences 1975-79; mem. Nat. Acad. of Sciences, Acad. dei Lincei Pontifical Acad., Rome; corresp. mem. French, Austrian and Bavarian Acads. of Sciences; foreign mem. Danish Soc. of Sciences; Hon. Fellow, French Soc. of Physics, Royal Soc. of Edinburgh, Weizmann Inst., Israel; Max Planck Medal 1950; Bors Pregel Award (U.S.A.) 1971, Cino del Duca Award (France) 1972; several hon. degrees. *Publications:* Theoretical Nuclear Physics (with J. Blatt) 1952, Knowledge and Wonder 1962, Physics in the Twentieth Century 1972. *Address:* c/o Department of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 02139; 36 Arlington Street, Cambridge, Mass. 02140, U.S.A. *Telephone:* (617) 868-2390.

WEISSMAN, George; American tobacco executive; b. 12 July 1919; m. Mildred Stregack; two s. one d.; ed. Coll. of City of New York, New York Univ. and Univ. of Illinois; U.S. Navy 1942-46; Samuel Goldwyn 1946-48; Account Exec., Benjamin Sonnenberg 1948-52; Asst. to Pres. and Dir. of Public Relations, Philip Morris Inc. 1952-53, Vice-Pres. 1953-57, Vice-Pres. and Dir. of Marketing 1957-59, Dir. 1958-, Exec. Vice-Pres. 1959-66, Pres. and Chief Operating Officer 1967-73, Vice-Chair. 1973-78, Chair. of Board and Chief Exec. Officer 1978-; Chair. of Board and Chief Exec. Officer, Philip Morris Int. 1960-67, Pres. 1964-67; Dir. Benson and Hedges (Canada) Ltd. 1958-70, Philip Morris (Australia) 1960-67, Fabriques de Tabacs Réunies 1963-67; Pres. and Dir. Philip Morris Int. Finance Corpn. 1968-73; Dir. Mission Viejo Co. 1970-, Harlem Savings Bank, Avnet Inc., Lincoln Center, Chemical New York Corpn., Chemical Bank; Trustee, Lincoln Center Fund, Baruch Coll. Fund; mem. Board of Dirs. Film Soc. of Lincoln Center, Business Cttee. for the Arts, Board of Visitors City Univ. N.Y. and City Coll. N.Y., Graduate Advisory Board of Baruch Coll. of N.Y., Council, Swarthmore Coll.; Commdr. Order of Merit of Italy. *Address:* Philip Morris Incorporated, 100 Park Avenue, New York, N.Y. 10017, U.S.A. *Telephone:* (212) 679-1800.

WEITNAUER, Albert, DR.JUR.; Swiss diplomatist; b. 30 May 1916, Blumenau, Brazil; s. of Albert Weitnauer and Stephanie (née Hoeschl); unmarried; ed. Basel Gymnasium and Basle Univ.; entered Swiss Govt Service 1941; Legal Advisor to Cen. Office of War Economy 1941-46; transferred to Div. of Foreign Trade 1946, First Head of Section 1951; Econ. Counsellor, Swiss Legation, London 1953-54, Swiss Embassy, Washington 1954-58; Swiss Govt. Del. for Trade Agreements and Head of Swiss Del. to GATT 1959-71; also Del. for Special Missions 1966-71 (apptd. Minister Plenipotentiary 1961, Amb. 1966); Amb. to U.K. 1971-75; Sec.-Gen. Fed. Political Dept. 1976-. *Publications:* articles in periodicals on questions of Swiss foreign policy, European integration and world trade. *Leisure interests:* golf, reading, study of languages. *Address:* c/o Eidgenössisches Politisches Departement, 3003 Berne, Switzerland.

WEITZ, Raanan; Israeli rural development planner; b. 27 July 1913, Rehovoth, Israel; s. of Joseph and Ruchama Weitz; m. Rivka Schechtman; one s. one d.; ed. Hebrew Gymnasia, Jerusalem, Hebrew Univ., and Univ. of Florence; Agricultural Settlement Dept., Jewish Agency 1937-, fmr. Village Instructor now Head of Dept.; Chair. Nat. and Univ. Inst. of Agric. 1960-66; Head Settlement Study Centre 1963-; service with Intelligence Corps. British 8th Army, Second World War; fmr. mem. Hagana; mem. Exec., Zionist Org. 1963-; Prof. Rural Regional Devt., Dept. of Econs., Bar-Ilan Univ. 1978. *Publications:* Agriculture and Rural Development in Israel: Projection and Planning 1963, Rural Planning in Development Countries (editor) 1965, Agricultural Development—Planning and Implementation 1968, Rural Development in a Changing World (editor) 1971, From Peasant to Farmer: ▪ Revolutionary Strategy for Development 1971, Urbanization and the Developing Countries: Report on the Sixth Rehovot Conference (editor) 1973, Employment and Income Generation in New Settlement Projects 1978, and papers on problems of comprehensive planning. *Address:* Zionist Organisation, Jerusalem (Office); Moshav Ora, Hare-Yehuda Mobile P.O., Israel (Home). *Telephone:* 02-39261 (Office); 02-419680 (Home).

WEIZ, Herbert, DR.RER.OEC.; German politician; b. 27 June 1924, Cumbach; ed. Univs. of Jena and Berlin and Technische Hochschule, Dresden; fmr. employee, VEB Optima Büromaschinenwerk, Erfurt and VEB Carl Zeiss, Jena 1952-55; mem. Communist Party 1945, Socialist Unity Party (SED) 1946-; mem. SED Cen. Cttee. 1958-; State Sec. for Research and Tech., G.D.R. 1962-67; ▪ Deputy Chair. Council of Ministers July 1967-, also Minister for Science and Tech. Feb. 1974-; Vaterländischer Verdienstorden in Bronze and Silver, and other decorations. *Address:* c/o Ministerrat, Berlin, German Democratic Republic.

WEIZMAN, Gen. Ezer; Israeli air force officer and politician; b. 15 June 1924, Tel-Aviv; nephew of Chaim Weizmann (1st Pres. of Israel); m.; two c.; ed. R.A.F. Staff Coll.; Officer, Israel Air Force 1948-66 and fmr. C.O., I.A.F.; Chief General Staff Branch 1966-69; Minister of Transport 1969-70, of Defence June 1977-; Chair. Exec. Cttee. Herut Party 1971-73; mem. Likud front 1973-. *Address:* 28 Hageffen Street, Ramat Hasheram, Israel.

WEIZSÄCKER, Carl-Friedrich von, DR.PHIL.; German university professor; b. 1912; ed. Univs. of Berlin, Göttingen and Leipzig; Asst. Univ. of Leipzig 1933-36, Kaiser-Wilhelm-Inst. für Physik, Berlin-Dahlem 1936-41; Prof. Univ. of Strasbourg 1942-45; Dir. of Dept. Max-Planck-Inst. für Physik, Göttingen 1946-57; Prof. of Philosophy, Hamburg 1957-69; Hon. Prof. Univ. of Munich; Dir. Max-Planck-Inst. on the Preconditions of Human Life in the Modern World, Starnberg 1970-. *Publications:* Zum Weltbild der Physik 1943, Die Geschichte der Natur 1948, Die Verantwortung der Wissenschaft im Atomzeitalter 1957, Bedingungen des Friedens 1963, Die Tragweite der Wissenschaft 1964, Gedanken über unsere Zukunft 1966, Der ungesicherte Friede 1969, Kriegsfolgen und Kriegsverhütung (with others) 1970, Die Einheit der Natur 1971, Wege in der Gefahr, eine Studie über Wirtschaft, Gesellschaft und Kriegsverhütung 1976, Der Garten des Menschlichen, Beiträge zur geschichtlichen Anthropologie 1977, Binary alternatives and space-time-structures 1977. *Address:* Max-Planck-Institut zur Erforschung der Lebensbedingungen der Wissenschaftlich-technischen Welt, D813 Starnberg, Riemerschmidstrasse 7 (Office); 8135 Söcking, Alpenstrasse 15, Federal Republic of Germany (Home).

WEJCHERT, Kazimierz, DR.TECH.SC.; Polish architect; b. 14 March 1912, Smoleńsk; s. of Kazimierz and Wiktoria Wejchert; m. 1st Janina Pawluc 1932, 2nd Hanna Adamczewska-Wejchert 1962; one s. two d.; ed. Warsaw Polytechnic; Prof. Warsaw Polytechnic 1946-; Chief Planner, Tychy New Town 1951-; (Wejchert works in perm. collaboration with Prof. Dr. H. Adamczewska-Wejchert, his wife); Dir. Town Planning Inst., Faculty of Architecture, Warsaw Polytechnic 1970-78, Polish Town Planning Assoc. (Chair. 1952-54); numerous prizes in town planning and architectonic competitions including First Prize for Warsaw Town Center 1958; State Prize (First Class) with H. Adamczewska-Wejchert for planning and realization of the North part in Tychy new town 1964; Gottfried von Herder Prize 1976; numerous other prizes and decorations. Major projects include plans for many towns in Olsztyn and Szczecin districts 1947-49, for towns, Garwolin 1948, Olsztyn, Starachowice 1950, regional plan for industrial towns in Upper Silesia, plan for Katowice town centre. *Publications:* Miasteczko polskie jako zagadnienie urbanistyczne (A Small Polish Town as an Urbanistic Problem) 1947, Tereny sportowe w osiedlach (Sports Grounds in Housing Estates) 1954, Nowe Tychy (Tychy New Town) 1960, Miasto na Warsztacie (Town on the Drawing Board) 1969, Elementy Kompozycji Urbanistycznej (Elements of Spacecomposition) 1974, Town in the Making (in English) 1974, Elemente der Städtebaulichen "Komposition', 1979. *Leisure interests:* iris growing, water colouring, photography, wandering. *Address:* Ul. Norwida 57, 43-100 Tychy; and Ul. Orezna 45, 02-937, Warsaw, Poland. *Telephone:* 27-42-33 (Tychy); 42-28-87 (Warsaw).

WELENSKY, Rt. Hon. Sir Roy (Roland), K.C.M.G.; Rhodesian politician; b. 20 Jan. 1907, Salisbury; s. of Swedish Jewish father and South African Dutch mother; m. 1st Elizabeth Henderson 1928 (died 1969), one s. one d.; m. 2nd M. Valerie Scott, two d.; ed. Primary School, Salisbury; worked for Rhodesia Railways (begin-

ning ■ fireman and engine driver) 1924-53; M.L.C. Northern Rhodesia 1938-53; mem. Exec. Council 1940-53; Dir. of Manpower 1941-46; Leader of the Unofficial Mems. 1946-53; Deputy Prime Minister Fed. Govt. of Rhodesia and Nyasaland 1953-56, Min. of Transport 1953-56, of Posts 1953-56, Prime Minister and Minister of External Affairs 1956-63, of Defence 1956-59; Pres. United Fed. Party 1956-63; Leader New Rhodesia Party Aug.-Dec. 1964. *Publication:* Welensky's 4,000 Days 1964. *Leisure interests:* fishing, reading, light and grand opera, music. *Address:* Old Lonrho Building, Baker Avenue (Between Third and Fourth Street), Salisbury; P.O. Box 804, Salisbury, Zimbabwe Rhodesia. *Telephone:* SBY 23338.

WELLEK, René, LITT.D., PH.D., D. ÈS L.; American professor of comparative literature; b. 22 Aug. 1903, Vienna, Austria; s. of Bronislav Wellek and Gabriele von Zelewski; m. 1st Olga Brodská 1932 (deceased), 2nd Nonna Dolodarenko 1968; one s.; ed. Gymnasium and Charles Univ., Prague and Princeton Univ.; Instructor, Smith Coll. 1928-29, Princeton Univ. 1929-30; Docent, Charles Univ. 1931-35; Lecturer of Czech Language and Literature, School of Slavonic Studies, Univ. of London 1935-39; Prof. of English, Univ. of Iowa 1939-46; Prof. of Slavic and Comparative Literature, Yale Univ. 1946-52, Sterling Prof. of Comparative Literature 1952-72, Emer. Prof. 1972-; twelve hon. degrees, three Guggenheim awards. *Publications:* Immanuel Kant in England 1931, The Rise of English Literary History 1941, Theory of Literature (with Austin Warren) 1948, A History of Modern Criticism (four vols.) 1955-65, Dostoevsky 1962, Essays on Czech Literature 1963, Concepts of Criticism 1963, Confrontations 1965, Discriminations 1970. *Address:* 45 Fairgrounds Road, Woodbridge, Conn., U.S.A. *Telephone:* (203) 397-2437.

WELLENSTEIN, Edmund P.; Netherlands civil servant; b. 20 Sept. 1919, The Hague; m.; six c.; ed. Univ. of Amsterdam; Travelling Sec. World Student Service Fund 1945-46; Official, Queen's Cabinet 1946-50; Head of German Section, Deputy Dir. for European Affairs, Ministry of Foreign Affairs 1950-52; Sec. of Working Group, High Authority of ECSC 1953-67, Sec. 1956, Sec.-Gen. 1960-68; Dir.-Gen. for Foreign Trade, Comm. of the European Communities 1968-70; Head Del. for the negotiations for the enlargement of Communities 1970-72; Dir.-Gen. for External Relations 1973-76; Advisory Dir. Unilever N.V. 1978-; Co-Pres. for EEC Devt. Comm. of Int. Conf. for Econ. Co-operation Feb. 1976-. *Address:* c/o Commission of the European Communities, 200 rue de la Loi, 1040 Brussels, Belgium.

WELLER, Thomas Huckle, A.B., M.S., M.D.; American scientist and university professor; b. 1915, Ann Arbor, Mich.; s. of Carl V. and Elsie H. Weller; m. Kathleen R. Fahey 1945; two s. two d.; ed. Harvard Univ. and Univ. of Michigan; Teaching Fellow, Harvard Medical School 1940-42; served Medical Corps, U.S. Army 1942-45; Asst. Resident, Children's Hospital, Boston 1946-47; Research Fellow, Harvard Medical School 1947-48, Instructor 1948-49; Asst. Prof. Tropical Public Health, Harvard School of Public Health 1949, Assoc. Prof. 1950-54, Richard Pearson Strong Prof. and Head of Dept. 1954-; Asst. Dir. Research Div. of Infectious Diseases, Children's Medical Center, Boston 1949-55; Dir. Comm. on Parasitic Diseases, Armed Forces Epidemiological Board 1953-59; Consultant on Tropical Diseases, U.S. Public Health Service; Dir. Center for Prevention of Infectious Diseases, Harvard School of Public Health 1966-; mem. Nat. Acad. of Sciences; winner (jointly) of E. Mead Johnson Award 1953, Kimble Methodology Award 1954, Nobel Prize in Medicine and Physiology 1954, Weinstein Cerebral Palsy Award 1973; Ledlie Prize 1963; Hon. LL.D., Sc.D., L.H.D. *Publications:* Papers on infectious diseases, tropical medicine, virus cultivation (especially poliomyelitis and mumps), the etiology of varicella, cytomegalic inclusion disease and rubella, herpes zoster, laboratory diagnosis of schistosomiasis. *Address:* Harvard School of Public Health, 665 Huntington Avenue, Boston, Mass. 02115 (Office); 56 Winding River Road, Needham, Mass. 02192, U.S.A. (Home).

WELLES, (George) Orson; American actor and producer; b. 6 May 1915; ed. Todd School, Woodstock, Ill.; fmr. actor Gate Theatre, Dublin; founded Mercury Theatre 1937, now Vice-Pres. and Dir. Mercury Productions; Producer, Writer and Dir. R.K.O. Radio Pictures 1939-40; mem. Actors Equity Assen., American Fed. Radio Artists; Claire Senie Award for foremost achievement in American Theatre 1938; Assoc. Ed. Free World Magazine; mem. American Acad. of Arts and Sciences 1970-; Special Acad. Award 1971; Life Achievement Award, American Film Inst. 1974. *Directed plays:* Horse Eats Hat 1936, Dr. Faustus, Cradle Will Rock 1937, Julius Caesar 1937, Shoemaker's Holiday, Heartbreak House, Danton's Death 1938; produced and acted in Othello (London) 1951, Moby Dick (London) 1955, King Lear (New York) 1956; wrote and acted in Chimes at Midnight 1960. *Films:* Citizen Kane (wrote, produced, directed, acted) 1940, The Magnificent Ambersons (wrote, dir., prod.) 1942, Journey into Fear (wrote, prod., acted) 1942, Jane Eyre 1943, Tomorrow is Forever 1945, The Lady from Shanghai (wrote, prod., dir., acted) 1946, Macbeth (adapted, dir., acted) 1947, Cagliosto 1947, The Third Man 1949, The Black Rose 1950, Versailles 1955, Confidential Report (wrote, dir., acted) 1955, Moby Dick 1955, Othello (adapted, dir., acted) 1956, The Long Hot Summer 1958, Compulsion 1959, Ferry to Hong Kong 1959, Crack in the Mirror 1960, David and Goliath 1961, The Trial, The V.I.P.s 1963, I'll Never Forget What's 'Is Name 1967, A Man for All Seasons 1967, The Kremlin Letter 1969, The Immortal Story (dir.) 1969, Waterloo 1970, Ten Days' Wonder 1972, F for Fake (wrote, dir., acted) 1974, The Other Side of the Wind (dir.) 1974, Voyage of the Damned 1976, The Other Side of the Mountain 1977, Crossed Swords 1978, The Late Great Planet Earth 1978. *Publications:* Mr. Arkadin 1957; Ed. with Roger Hill: Everybody's Shakespeare 1933, Mercury Shakespeare 1939; Play: Chimes at Midnight (film 1964). *Address:* c/o L. Arnold Weissberger, 120 East 56th Street, New York, N.Y. 10022; 10464 Bellago Road, Bel Air, Calif. U.S.A. (Home).

WELLS, Rear-Adm. David Charles, C.B.E.; Australian naval officer; b. 19 Nov. 1918, Inverell, N.S.W.; s. of Charles Valentine Tighe Wells and Dorothy Margaret Wells (née Cardale); m. Joan Moira Alice (née Pope) 1940; one s. three d.; ed. St. Peter's Coll., Adelaide, Royal Australian Naval Coll.; Communications Officer, Royal Naval Air Station, Culdrose 1950-51; attended RN Staff Course, Greenwich 1952; in command, HMAS Queenborough 1954-55; Dir. of Plans, Navy Office 1959-60; in command, HMAS Voyager 1961-62; Deputy Dir. RN Staff Coll. Greenwich 1962-64; attended Imperial Defence Coll. 1965; in command, HMAS Melbourne 1965-66; Commdg. Officer Royal Australian Navy Air Station, Nowra (HMAS Albatross) 1967; Flag Officer-in-Charge, E. Australia Area 1968-69; Deputy Chief of Naval Staff 1970-71; Commdr. Australia, N.Z. and U.K. Forces (ANZUK) in Malaysia and Singapore 1972-73; Flag Officer Commdg. H.M. Australian Fleet 1974-75. *Leisure interest:* farming. *Address:* Pine Ridge, Leadville, N.S.W. 2744, Australia.

WELLS, Herman B., B.S., A.M., LL.D.; American educationist; b. 7 June 1902, Jamestown, Indiana; s. of Joseph Granville and Anna Bernice (née Harting) Wells; ed. Univs. of Illinois and Wisconsin, and Indiana Univ.; Asst. Cashier, First Nat. Bank, Lebanon, Ind. 1924-26; Asst., Dept. of Econs., Univ. of Wisconsin 1927-28; Field Sec. Indiana Bankers' Assen. 1928-31; Sec. and Research Dir. Study Comm. for Indiana Financial Instns. 1931-33; Instr. in Econs. Indiana Univ. 1930-33, Asst. Prof. 1933-35; Supervisor Div. of Banks and Trust Cos. and Div. of Research and Statistics, Dept. of Financial Insts. State of Indiana 1933-35, Sec. Comm. for Financial Insts. 1933-36; Dean and Prof. School of Business Admin. Indiana Univ. 1935-37, Acting Pres. of Univ. 1937-38, Pres. of Univ. 1938-62, Chancellor 1962-; Pres. Indiana Univ. Foundation 1962-69, Chair. of Board 1937-62, 1969-72, Vice-Pres. and Chair. Exec. Cttee.; Chair. American Council on Educ. 1944-45; Trustee, Carnegie Foundation for Advancement of Teaching 1941-62; Special Advisor Liberated Areas, U.S. Dept. of State 1944; Consultant, American Council on Educ. to U.S. Del. at San Francisco Conf. 1945; mem. Allied Missions for Observation of Greek Elections 1946; adviser cultural affairs Mil. Govt., U.S. Zone, Germany 1947-48; mem. UNESCO Comm. of Experts on German Questions 1949-50; U.S. mem. Governing Board UNESCO Inst. for Educ., Hamburg 1951-57; U.S. Nat. Comm. for UNESCO 1951-55, Vice-Chair. 1953-54; mem. U.S. Del. to UN 1957; adviser to Pakistan Ministry of Educ. 1959; Vice-Pres. Int. Assen. of Univs. 1955-60; Head U.S. Del. SEATO Preparatory Comm. on Univ. Problems 1960; mem. U.S. Cttee. reviewing activities and org. of UN Secretariat 1960-61; Chair. Board American Research Inst. for the Arts 1975-78; Chair. Board of Trustees, Educ. and World Affairs 1963-70; mem. President's Cttee. on U.S.-Soviet Trade Relations 1965, on Overseas Voluntary Activities 1967; mem. Review Cttee. on Haile Sellassie I Univ. 1966-74; mem. Nat. Cttee. on U.S.-China Relations 1969; mem. Board Lilly Endowment; mem. Board Chemed Corpn.; mem. Visiting Cttee., Tulane Univ.; Hon. degrees from twenty-five univs. and colls.; Commdr's Cross of Order of Merit, Fed. Repub. of Germany and other orders. *Leisure interest:* travelling. *Address:* Office of the Chancellor, Owen Hall, Indiana University, Bloomington, Ind. 47401; 1321 East 10th Street, Bloomington, Ind. 47401, U.S.A. (Home). *Telephone:* (812) 337-6647 (Office); (812) 336-6275 (Home).

WELLS, John West, PH.D.; American geologist; b. 15 July 1907, Philadelphia, Pa.; s. of Raymond Wells and Maida West; m. Eliz-

abeth Baker 1932; one d.; ed. Univ. of Pittsburgh and Cornell Univ.; Instructor in Geology Univ. of Texas 1929-31; Instructor-Prof. of Geology Ohio State Univ. 1938-48; Geologist U.S. Geological Survey 1946-; Prof. of Geology Cornell Univ., N.Y. 1948-73, Prof. Emer. 1973-; Bikini Scientific Resurvey 1947; Arno Atoll Expedition for Pacific Science Board 1950; Fulbright Lecturer Univ. of Queensland, Australia 1954; Fellow, Geological Soc. of America; mem. Paleontological Soc. (Pres. 1961-62), Paleontological Research Inst. (Pres. 1961-64), Soc. of Vertebrate Paleontology, Paleontological Assn., Nat. Acad. of Sciences. *Leisure interests:* history of geology, prize books. *Address:* 104 Brook Lane, Ithaca, New York 14850, U.S.A. *Telephone:* (607) 257-7854.

WELSH, Matthew E., B.S.ECON., DR.JUR.; American politician; b. 15 Sept. 1912, Detroit, Mich.; s. of Mathew W. Welsh and Inez Empson; m. Mary Virginia Homann 1937; two d.; ed. Wharton School of Commerce (Univ. of Pennsylvania), Indiana Univ., and Univ. of Chicago; State Rep., Indiana Gen. Assembly 1940-43; served U.S. Navy 1944-46; U.S. Attorney, S. District of Indiana 1950-52; private law practice 1952-60; State Senator 1954-61; Gov. of Indiana 1961-65; Chair. U.S. Section, Int. Joint Comm., U.S. and Canada 1965-70; official of numerous legal, educational and religious bodies; six hon. degrees; Partner Bingham, Summers, Welsh and Spilman. *Publications:* numerous articles in professional journals; Statehouse Indiana 1961-64: A Political Accounting 1979. *Leisure interests:* reading and walking. *Address:* 2700 Indiana Tower, Indianapolis, Indiana 46204, U.S.A. *Telephone:* 317-635-8900.

WELTY, Eudora, B.A.; American writer; b. 1909; ed. Mississippi State Coll. for Women, Univ. of Wisconsin and Columbia Univ.; mem. American Acad. of Arts and Letters 1969; Gold Medal, Nat. Inst. Arts and Letters 1972; Pulitzer Prize for Fiction for The Optimist's Daughter 1973. *Publications:* A Curtain of Green 1941, Robber Bridgegroom 1942, The Wide Net 1943, Delta Wedding 1946, The Golden Apples 1949, The Ponder Heart 1954, The Bride of Innisfallen 1955, The Shoe Bird 1964, Losing Battles 1970, One Time, One Place 1971, The Optimist's Daughter 1972. *Address:* 1119 Pinehurst Street, Jackson, Miss. 39202, U.S.A.

WENDT, Frantz; Danish civil servant; b. 24 Feb. 1905, Hörby, Holbäk; s. of Hans and Nitetis (née Kjerulff) Wendt; m. Eve Conradt-Eberlin 1930; one s. one d.; ed. Univs. of Copenhagen, Harvard and the Sorbonne; Asst. Prof. of Modern History and Civics, Univ. of Copenhagen 1935-43; Sec.-Gen. Inst. of Econs. and History, Copenhagen 1936-43; Exec. Dir. Danish Div., Norden Assn. 1943-53; Sec.-Gen. Danish Secr. of the Nordic Council 1952-75. *Publications include:* The Nordic Council and Co-operation in Scandinavia 1959. *Leisure interests:* chess, British and French biography, French poetry. *Address:* Ahlmanns allé 11, 2900 Hellerup, Denmark. *Telephone:* (01) 62-27-22.

WENGER, Antoine, Rév. Père; French theologian, journalist and historian; b. 2 Sept. 1919, Rohrwiller (Bas-Rhin); s. of Charles and Philomène Gambel; ed. Sorbonne, Strasbourg Univ.; Dir. of Oriental Theology, Univ. Catholique de Lyon 1948-56, Prof. 1956; Chief Ed. La Croix 1957-69; Pres. Fédération Internationale des Directeurs de Journaux Catholiques 1957-65; mem. Pontifical Marian Acad., Rome 1959; Prof. of Ancient Christian Literature Strasbourg Univ. 1969-73; Ecclesiastical Counsellor to the French Amb. to the Holy See 1973-. *Publications:* L'Assomption dans la tradition orientale 1955, Homélies Baptismales inédites de St. Jean Chrysostome 1957, La Russie de Khrouchtchev 1959, Vatican II, Première Session 1963, Vatican II, Deuxième Session 1964, Vatican II, Troisième Session 1965, Quatrième Session 1966, Upsal, le Défi du Siècle aux Eglises 1968. *Leisure interests:* old books, stamps. *Address:* 5 rue Bayard, 75008 Paris, France; Largo Febo 17, 00186 Rome, Italy. *Telephone:* 46-38-41 (Paris Office); 656-04-15 (Rome).

WENT, Frits W., PH.D., D.SC.; American professor of botany; b. 18 May 1903, Utrecht, Netherlands; s. of Prof. F. A. F. C. Went and C. J. Went-Tonckens; m. Catherine H. van de Koppel 1927; one s. one d.; ed. Univ. of Utrecht; Botanist, later Head, Treub Lab., Botanical Gardens, Buitenzorg (now Bogor), Java 1928-32; Prof. of Plant Physiology Calif. Inst. of Tech. 1933-58; Dir. Missouri Botanical Garden 1958-63; Prof. of Botany Washington Univ. 1958-65; Head of Lab. of Desert Biology, Desert Research Inst., Univ. of Nevada and Distinguished Prof. of Botany, Univ. of Nevada 1965-75; Visiting Prof. Univ. of Vienna 1976; mem. Nat. Acad. of Sciences; Foreign mem. or Corresp. mem. of Netherlands, Belgian and French Acads. of Science; Hon. Ph.D. (Paris and Uppsala, Methodist Central College, Mo.) Hon. D.Sc. (McGill); Hon. LL.D. (Alberta); Hodgkin Medal of Smithsonian Inst. *Publications:* Phytohormones (with K. V. Thimann) 1937, The Experimental Control of Plant Growth 1957, The Plants 1963. *Leisure interests:* gardening, hiking. *Address:* Desert Research Institute, University of Nevada, Reno, Nev. 89506 (Office); Lodestar Lane 3450, Reno, Nev. 89503, U.S.A. (Home). *Telephone:* 702-784-6744 (Office); 702-786-1543 (Home).

WENTZEL, Gregor, PH.D.; American physicist; b. 17 Feb. 1898, Düsseldorf, Germany; m. Anna L. Wielich 1929; one s.; Prof. of Physics, Univ. of Leipzig, Germany 1926-28, Univ. of Zurich, Switzerland 1928-48, Univ. of Chicago, U.S. 1948-69; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Swiss Fed. Inst. of Tech.); Max-Planck Medal, German Physical Soc. 1975. *Address:* 77 Via Collina, Ascona (Ticino), Switzerland. *Telephone:* 093-355529.

WERBLAN, Andrzej, DR.POL.SC.; Polish politician; b. 30 Oct. 1924, Tarnopol; ed. Warsaw Univ. and Inst. of Social Sciences of Cen. Cttee. of PUWP; active mem. Polish Socialist Party 1947-48; mem. Polish United Workers' Party (PUWP) 1948-, Deputy mem. Cen. Cttee. 1948-56, mem. Cen. Cttee. 1956-, mem. Secr. Cen. Cttee. 1971-74, Sec. Feb. 1974-; Sec. PUWP Voivodship Cttee., Kielce 1948-51; Head, Propaganda Dept., PUWP Cen. Cttee. 1956-60, Head, Educ. Dept. 1960-71; mem. Secr. PUWP Cen. Cttee. 1971-75, Sec. Cen. Cttee. Dec. 1975-; Ed.-in-Chief, Nowe Drogi 1972-74, Chair. Editorial Council 1974-; Deputy to Seym 1952-57, 1961-, Vice-Marshal of Seym 1971-; mem. Presidium Cen. Board Union of Fighters for Freedom and Democracy; Chair. Polish Group, Inter-Parl. Union (IPU) 1971-72, 1976-; Prof. Extraordinary, Silesian Univ. 1974-; Head, Inst. of Basic Problems of Marxism-Leninism, Cen. Cttee. of PUWP 1974-; Commdr. Cross of Order of Banner of Labour 1st Class, Order of Polonia Restituta, Order of Builders of People's Poland 1974, etc. *Address:* Polska Zjednoczona Partia Robotnicza, Nowy Świat 6, 00-497 Warsaw, Poland.

WERNER, Ernest George Germain; Netherlands oil company executive; b. 23 Dec. 1920, The Hague; m. Elly Agnese J. Asmussen 1945; two s.; ed. Technological Univ. of Delft; joined Royal Dutch/Shell Group as research chemist at Amsterdam lab. 1945; subsequent appointments in chemical eng. and research at Amsterdam, London and the Pernis refinery; Head of Plastics, Resins and Elastomers Div. 1961-63, of Industrial and Agricultural Chemicals Div. 1963-64; Mfg. Co-ordinator for Chemicals 1964-67, Dir. for Chemicals 1967-70; Man. Dir. N.V. Koninklijke Nederlandsche Petroleum Maatschappij (Royal Dutch) 1970-, The Shell Petroleum Co. Ltd. 1970-; Principal Dir. Shell Petroleum N.V. 1970-; Kt. Order of Netherlands Lion. *Address:* N.V. Koninklijke Nederlandsche Petroleum Maatschappij, 30 Carel van Bylandtlaan, The Hague (Office); 3 Doornweg, Wassenaar, Netherlands (Home). *Telephone:* 771435 (Office).

WERNER, Pierre; Luxembourg lawyer and politician; b. 29 Dec. 1913, Saint André, Lille, France; m. Henriette Pescatore 1939; three s. two d.; ed. Univ. of Paris and Luxembourg; practising lawyer 1938-39 and 1944-45; with Banque Générale du Luxembourg 1939-44; with Ministry of Finance 1945; Commr. of Bank Control 1946-53 and of Nat. Savings 1948-53; Sec. to the Council of Govt. 1949-53; Minister of Finance and of the Armed Forces 1953-58; Prime Minister and Minister of Finance 1959-64; Prime Minister, Min. of Foreign Affairs, of Treasury, and of Justice 1964-66; Prime Minister, Minister of Treasury and of Civil Service 1967-69; Prime Minister, Minister of Finance and Minister of Cultural Affairs 1969-74, Prime Minister June 1979-; Gov. European Investment Bank 1958-74; Chair. EEC Cttee. on Monetary Union 1970-71; Chair. Parl. group Christian Socialists 1974-; Christian Social Party; numerous Luxembourg and foreign decorations. *Publications:* various publs. on European and monetary matters. *Address:* 2, Rond-Point Robert Schumann, Luxembourg. *Telephone:* 225-74.

WERTHEIMER, Pierre; French surgeon; b. 23 July 1892, Lyon; s. of Dr. Paul Wertheimer and Jeanne L. Grunwald; m. Germaine Kahn 1919; one s. one d.; ed. Faculté de Médecine, Lyon; Prof., Faculté de Médecine, Lyon 1926; Hospital Surgeon 1930; Titular Prof. of Clinical Surgery 1944-65, Hon. Prof. 1965-; Hospital Admin., Hospices civils de Lyon 1950-74, Hon. Admin. 1974-; mem. Acad. des Sciences, Acad. de Médecine, Acad. de Chirurgie; Hon. mem. Assoc. française de Chirurgie 1977; Croix de guerre; Commdr. Légion d'honneur. *Address:* 21 avenue du Maréchal-de-Saxe, 69006 Lyon, France. *Telephone:* 52.27.01.

WERTHÉN, Hans Lennart Oscar, D.TECH.; Swedish business executive; b. 15 June 1919, Ludvika; s. of Oscar F. and Mabel (née Evans) Werthén; m. Britta Ekström 1950; three d.; ed. Royal Inst. of Technology, Stockholm; Asst. Prof., Royal Inst. of Tech., Stockholm 1942-46, Chief of Television Research 1947-51; Chief of Television Research Lab., AGA AB 1952-56; Vice-Pres. (Eng.) Norrköpings Elektrotekniska Fabrikers AB (NEFA) (Philips) 1956-59; Vice-Pres. L. M. Ericsson, Telefon AB, Stockholm 1960, Senior Vice-Pres. 1963-67; Pres. AB Electrolux 1967-74, Group Exec. Chair. 1974-; Chair. Nife Junger AB 1976, Gränges AB 1977-,

Datasaab AB 1977; Knight Commdr., Royal Order of Vasa 1973, Knight Commdr., Order of the White Rose (Finland) 1975. *Leisure interests:* history, music, mountain climbing. *Address:* Gränges AB, Box 16329, Fack, 103 26 Stockholm 16; Karlavägen 67vi, 114 49 Stockholm, Sweden. *Telephone:* (08) 61-08-00, 62-24-67 (Home).

WESKER, Arnold; British playwright; b. 24 May 1932, Stepney, London; s. of Joseph Wesker and Leah Wesker (née Perlmutter); m. Doreen (Dusty) Cecile Bicker 1958; two s. one d.; ed. mixed elementary schools and Upton House Central School, Hackney, London; left school 1948, worked ▬ furniture maker's apprentice, carpenter's mate, bookseller's asst. R.A.F. 1950-52 (ran drama group); plumber's mate, road labourer, farm labourer, seed sorter, kitchen porter and pastry-cook; studied nine months, London School of Film Technique; Arts Council Bursary 1959; Dir. Centre 1942, 1961-70; Encyclopaedia Britannica Competition, 1st Prize (for Chicken Soup with Barley), 3rd Prize 1961 (for The Kitchen); Premio Marzotto Drama Prize (for Their Very Own Golden City) 1964; Gold Medal, Premios el Espectador y la Critica (for The Kitchen) 1973; began directing his own plays: The Four Seasons, Cuba 1968, world première of his own play The Friends at Stadsteatern, Stockholm 1970, London 1970, The Old Ones, Munich, Their Very Own and Golden City, Aarhus 1974, Love Letters on Blue Paper, Nat. Theatre 1978. *Publications:* Plays: The Kitchen 1957, The trilogy—Chicken Soup with Barley 1958, Roots 1959, I'm Talking about Jerusalem 1960, Chips with Everything 1962, Menace 1963, Their Very Own and Golden City 1964, The Four Seasons 1965, The Friends 1970, The Old Ones 1972, The Journalists 1972, The Wedding Feast 1973, The Merchant 1975, Love Letters on Blue Paper 1978; also: Fear of Fragmentation (essays and lectures), Six Sundays in January (miscellaneous), Love Letters on Blue Paper (short stories) 1974, Say Goodbye You May Never See Them Again (text to accompany book of paintings by John Allin) 1974, Words ▬ definitions of experience (essay), Journey Into Journalism (non-fiction) 1977, Said The Old Man To The Young Man (stories) 1978, Fatlips (children's book) 1978, The Journalists (triptych) 1979, Collected Plays and Stories (5 vols.) 1979. *Leisure interest:* listening to gramophone records. *Address:* 27 Bishops Road, London, N.6, England. *Telephone:* 01-340 5125.

WESSELMANN, Tom, B.A.; American artist; b. 23 Feb. 1931, Cincinnati, Ohio; s. of Edwin W. and Grace D. Wesselmann; m. 2nd Claire Selley 1963; one s. one d.; ed. Univ. of Cincinnati, Art Acad. of Cincinnati and Cooper Union, N.Y; taught art New York City Junior and Senior High Schools 1959-62; one-man exhbns. 1961-, incl. Tanager Gallery, New York 1961, Green Gallery, New York 1962, 1964, 1965, Museum of Contemporary Art, Chicago 1968, Newport Harbor Art Museum, Calif. 1970, Jack Glenn Gallery, Calif. 1971, Calif. State Univ. 1974, Sidney Janis Gallery 1966, 1968, 1970, 1972, 1974, 1976, Inst. of Contemporary Art, Boston 1978. *Leisure interests;* nature, wildlife. *Address:* 231 Bowery, New York, N.Y. 10012, U.S.A. *Telephone:* (212) 228-3930.

WEST, Frederic W., Jr., B.SC.; American steel executive; b. 18 Feb. 1919, Philadelphia, Pa.; s. of Frederic W. West and Marion Etta (Nill) West; m. Ruth Virginia Landers 1947; three s. one d.; ed. Cornell Univ.; joined Bethlehem Steel Corpn. 1941; Mil. service 1942-46, 1950-52; Asst. Gen. Man. Sales 1969-70, Vice-Pres. Manufactured Products, Sales 1970-73, Dir. 1973-, Exec. Vice-Pres. 1973-74, Pres. 1974-77, Vice-Chair. 1977-; Dir. Iron Ore Co. of Canada; mem. American Iron and Steel Inst., the Conf. Board, Advertising Council Industries Advisory Cttee., Advisory Council for the Graduate School of Business and Public Admin., Cornell Univ. 1975-77, Econ. Club of New York, Board of Trustees, St. Luke's Hospital, Bethlehem, Pa.; Bronze Star. *Address:* Bethlehem Steel Corpn., Bethlehem, Pa. 18016, U.S.A. *Telephone:* (215) 694-2424.

WEST, John C., LL.B.; American lawyer, fmr. state governor and diplomatist; b. 27 Aug. 1922; s. of late Shelton J. West and of Mattie (Ratterree) West; m. Lois Rhame 1942; three c.; ed. Univ. of South Carolina; partner, firm West, Holland and Firman 1948-70; elected to S. Carolina Senate 1954, re-elected 1958, 1962; Lieut.-Gov. of S. Carolina 1966-70; Gov. of S. Carolina 1970-74; Partner, firm West, Cooper, Bowen and Quinn 1975-; Amb. to Saudi Arabia 1977-, mem. various cttees, and civic orgs.; Democrat. *Address:* Embassy of the Unites States of America, Jeddah, Saudi Arabia.

WEST, Mae; American actress; b. 17 Aug. 1892, Brooklyn; stage appearances include Little Nell the Marchioness 1897, East Lynne, The Fatal Wedding, A la Broadway 1911, A Winsome Widow 1912, Such is Life 1913, Sometime 1918, Demitasse 1919, The Mimic World 1921, Sex 1926, The Wicked Age 1927, Diamond Lil 1928, The Constant Sinner 1931, Catherine Was Great 1944; films include Night after Night 1932, She Done Him Wrong 1933, I'm no Angel 1933, Bell of the Nighties 1934, Goin' to Town 1935, Klondike Annie 1936, Go West, Young Man 1936, Every Day's a Holiday 1937, My Little Chickadee 1940, The Heat's On 1943, Myra Breckenridge 1970, Sextet 1977. *Publications:* Goodness Had Nothing to Do With It (autobiography) 1959, Diamond Lil, The Constant Sinner, On Sex, Health and ESP 1975. *Address:* c/o William Morris Agency, 1740 Broadway, New York, N.Y. 10019, U.S.A.

WEST, Morris (Langlo), B.A.; Australian author; b. 26 April 1916, Melbourne; s. of Charles Langlo and Florence Guilfoyle (Hanlon); m. Joyce Lawford; three s. one d.; ed. Univ. of Melbourne; teacher of Modern Languages and Mathematics, New South Wales and Tasmania 1933-39; Army service 1939-43; Sec. to William Morris Hughes, fmr. Prime Minister of Australia 1943; Fellow, Royal Soc. of Literature, World Acad. of Arts and Science; Nat. Brotherhood Award, Nat. Council of Christians and Jews 1960, James Tait Black Memorial Prize 1960, Royal Soc. of Literature Heinemann Award 1960 (All prizes for The Devil's Advocate); Hon. D.Litt. (Santa Clara Univ., Calif.) 1969; Int. Dag Hammarskjold Prize (Grand Collar of Merit) 1978. *Publications:* Gallows on the Sand 1955, Kundu 1956, Children of the Sun 1957, The Crooked Road (English title The Big Story) 1957, The Concubine 1958, Backlash (English title Second Victory) 1958, The Devil's Advocate 1959, The Naked Country 1960, Daughter of Silence (novel and play) 1961, The Shoes of the Fisherman 1963, The Ambassadors 1965, The Tower of Babel 1968, The Heretic, ▪ Play in Three Acts 1970, Scandal in the Assembly (with Robert Francis) 1970, Summer of the Red Wolf 1971, The Salamander 1973, Harlequin 1974, The Navigator 1976, Proteus 1979. *Address:* c/o Paul R. Reynolds Inc., 12 East 41st Street, New York City, N.Y. 10017, U.S.A.

WEST, Dame Rebecca, D.B.E., C.LIT.; British novelist and journalist; b. 21 Dec. 1892, Edinburgh; d. of Charles and Isabella Campbell (Mackenzie) Fairfield; m. Henry Maxwell Andrews 1930; one s.; ed. George Watson's Ladies Coll., Edinburgh; contributor to leading British and American journals The Daily Telegraph, Sunday Times, N.Y. Herald Tribune, Harper's Magazine, Atlantic Monthly, Sunday Telegraph; mem. American Acad. Arts and Sciences; Hon. mem. American Acad. of Arts and Letters; Hon. D.Litt. (New York Univ. U.S.A.); Order of St. Sava; Chevalier Légion d'honneur 1957; A. C. Benson Silver Medal for Literature 1966. *Publications include:* Henry James 1916, The Return of the Soldier 1918, The Judge 1922, The Strange Necessity 1928, Harriet Hume 1929, D. H. Lawrence: An Elegy 1930, St. Augustine 1933, The Rake's Progress (with David Low) 1934, The Harsh Voice 1935, The Thinking Reed 1936, Black Lamb and Grey Falcon 1942, The Meaning of Treason 1949, A Train of Powder 1955, The Fountain Overflows 1957, The Court and the Castle 1958, The Vassall Affair 1963, The New Meaning of Treason 1964, The Birds Fall Down 1966, Rebecca West: A Celebration: A Selection of Her Writings 1977. *Address:* c/o Macmillans, 4 Little Essex Street, London, WC2R 3LF, England.

WESTERBERG, Bengt Folke; Swedish business executive; b. 19 Feb. 1915, Nyköping; s. of Charles and Lisa Westerberg; m. 1st Anne-Marie Nilsson (died 1967), and Carin Jonsson; two d.; worked for Cewe-Selfa AB 1929-70, mem. Board 1942-, Chair. Board 1948-59, Man. Dir. 1960-70; mem. Board and Man. Dir. AB ASEA-SKANDIA 1970-76, Chief Exec. Officer ASEA 1976-. *Address:* ASEA Group Office P.O. Box 7373, S-103 91 Stockholm, Sweden. *Telephone:* 08/24-59-50.

WESTERBERG, Karl Arne Rickard; Swedish business executive; b. 11 June 1917, Dalarö; s. of Rickard and Märtha Westerberg; m. Siv Andersson 1946; one d.; ed. Royal Inst. of Technology, Stockholm; Man. Dir., Halmstads Järnverks AB 1959-66; Pres. and Chief Exec. Officer, Sandvik Group 1967-; Knight Commdr. of Royal Order of Vasa. *Leisure interests:* tennis, reading. *Address:* Sandvik AB, S-811 01 Sandviken 1 (Office); Hedåsen, S-811 00 Sandviken, Sweden (Home). *Telephone:* 26 00 00 (Office); 25 94 78 (Home).

WESTERFIELD, Putney, B.A.; American business executive; b. 9 Feb. 1930, New Haven, Conn.; s. of Ray Beatrice Westerfield; m. Anne Montgomery 1954; two s. one d.; ed. Choate School and Yale Univ.; Vice-Pres. and Co-founder, Careers Inc. 1950-52; Man. S.E. Asia Operations, Swen Publs.; service with Dept. of State in Korea, Washington, Saigon 1953-59; Asst. to Pubr. of Time 1957-59, Asst. to Circulation Dir. 1959-61, Circulation Dir. 1961-66, Asst. Publr. 1966-68; Asst. Publr. of Life 1968-69; Publr. of Fortune 1969-73; Pres. Chase World Information Corpn. 1973-75; Assoc. Boyden Assocs. Int. 1976-. *Leisure interests:* reading, music, tennis, swimming. *Address:* Boyden Associates, Maritime Plaza, San Francisco, Calif. 94111 (Office); 360 Robinwood Lane, Hillsborough, Calif. 94010 U.S.A. (Home). *Telephone:* (203) 869-8884.

WESTERMAN, Sir (Wilfred) Alan, Kt., C.B.E., M.A.ECON., B.ED., ED.D.; Australian business executive; b. 25 March 1913. New Zealand; ed. Knox Grammar School, Univs. of Tasmania, Melbourne and Columbia; fmr. Lecturer in Rural Sociology, Columbia Univ.; Trade Commr. Service 1946-49; Dir. Trade Promotion and Int. Trade Relations 1949-53; First Asst. Sec., Dept. of Commerce and Agric. 1953-58; Chair. Commonwealth Tariff Board 1958-60; Sec. Dept. of Trade and Industry 1960-71; Exec. Chair. Australian Industry Devt. Corpn. 1971-77; Chair. Australian Industry Devt. Corpn. 1977-; Dir. Philips Industries Ltd. 1977-, Ampol Petroleum Ltd. 1977-, Ampol Exploration Ltd. 1978-; Chair. Australian Stevedoring Industry Consultative Council 1978-. *Address:* P.O. Box 1483, Canberra, A.C.T. 2601, Australia.

WESTERTERP, Theodorus Engelbertus (Tjerk); Netherlands politician; b. 2 Dec. 1930, Rotterdam; m. 1954; ed. High School Breda, Univ. of Nijmegen; journalist 1949-53; civil servant European Parl. 1953-63; mem. Parl. 1963-71; State Sec. for Foreign Affairs 1971-73; Minister of Transport, Water Control and Public Works 1973-77; Gen. Man. European Options Exchange 1978-; Grand Officer Order of Bernado O'Higgins (Chile); Grand Cross Order of the Lion (Finland); Grand Cross (Italy); Catholic People's Party. *Address:* c/o Ministry of Transport, Water Control, and Public Works, The Hague, Netherlands.

WESTMORELAND, Gen. William Childs; American retd. army officer; b. 26 March 1914, Spartanburg County, S. Carolina; s. of James R. and Eugenia Childs Westmoreland; m. Katherine S. Van Deusen 1947; one s. two d.; ed. U.S. Military Acad.; U.S. Army 1936-72; Maj.Gen. 1956, Lieut.-Gen. 1963, Gen. 1964; Battery Officer, Oklahoma and Hawaii 1936-41; Commdg. Officer, 34th Field Artillery Battalion 1942-44; Exec. Officer 9th Infantry Div. 1944, Chief of Staff 1944-45, Commdr. 60th Infantry Regt., Germany 1945, 504th Parachute Infantry Regt., Fort Bragg 1946-47; Chief of Staff, 82nd Airborne Div. 1947-50; Instructor, Command and Gen. Staff Coll., and Army War Coll. 1950-52; Commdr. 187th Airborne Regimental Combat Team, Korea and Japan 1952-53; Deputy Asst. Chief of Staff G1, for Manpower Control, Dept. of Army 1953-54, Sec. Gen. Staff 1955-58; Commdg. Gen. 101st Airborne Div. and Fort Campbell, Kentucky 1958-60; Supt. U.S. Military Acad., West Point 1960-63; Commdr. 18th Airborne Corps, Fort Bragg 1963-64; Deputy Commdr. U.S. Military Assistance Command Viet-Nam 1964, Commdr. 1964-68; Chief of Staff, U.S. Army, The Pentagon 1968-72; retired from army 1972. *Publications:* Report on the War in Vietnam, A Soldier Reports and numerous articles in military publications and the press. *Address:* P.O. Box 1059, Charleston, S.C. 29402, U.S.A.

WETTER, Rear-Admiral (Sten) Erik P:son; Swedish naval officer and businessman; b. 4 April 1889, Stockholm; s. of Pres. Albert Petersson and Ada Wetter; m. Maja Carlander 1924; one s. four d.; ed. Swedish and Leghorn Naval Academies; Lt. Commdr. Royal Swedish Navy 1918, Commdr. 1931, Rear-Adm. 1943, Dep. Dir. Navy Board 1943-45; mem. (Liberal) First Chamber of Riksdag 1945-47; Vice-Pres. Board Swedish Ballbearing Co. (SKF) 1954-62; Pres. Board A. B. Bofors 1946-66; Pres. Board Home Lines Inc. 1953-; Man. Dir. Swedish Orient Line 1931-51; A.D.C. to H.R.H. the Crown Prince 1927, Chief A.D.C. to H.M. the King 1950, First Marshal of the Court to H.M. the King of Sweden 1952-62; Hon. Dr. Univ. Lund 1974; 3 Swedish orders and 12 foreign orders. *Leisure interest:* archaeology, especially Etruscology. *Address:* Fredrikshovsgatan 5, 115 22 Stockholm, Sweden. *Telephone:* Stockholm 08/62-67-94.

WEYAND, Gen. Frederick Carlton; American army officer (retd.); b. 15 Sept. 1916, Calif.; s. of Frederick C. and Velma Semans Weyand; m. L. Arline Langhart 1940; one s. two d.; Univ. of Calif., Berkeley, Nat. War Coll., Washington, and Infantry School, Fort Benning; commissioned 1938; mem. Berkeley Police Dept. 1939-40; active service 1941; served in India, Burma, China 1944-45; Intelligence duties 1946-49; Battalion Commdr. and 3rd Div. Operations Officer, Korea 1950-51; Exec. Officer, Sec. of Army 1954-57; Brigade Commdr., Berlin 1958-60; Legis. Liaison with Congress 1960-64; Commdr. U.S. 25th Infantry Div. 1964-67; Field Force Commdr., Viet-Nam 1967-68; Mil. Rep. to Paris Peace Talks 1969-70; Deputy Commdr. and Commdr. U.S. Mil. Assistance Command, Viet-Nam 1970-73; Vice-Chief of Staff of the Army 1973-74; Chief of Staff 1974-76; Vice-Pres. First Hawaiian Bank; Distinguished Service Cross, Silver Star, Distinguished Service Medal, Legion of Merit. *Leisure interests:* sport (golf and tennis), music (guitar and saxophone), reading (history). *Address:* First Hawaiian Bank, 165 South King Street, Honolulu, 96813, Hawaii.

WEYER, Deryk Vander, F.I.B., F.B.I.M.; British banker; b. 21 Jan. 1925, Bridlington, Yorkshire; s. of Clement and Harriet Vander Weyer; m. Marguerite Warden; one s. one d.; ed. Bridlington School, Admin. Staff Coll., Henley, Oxford Centre for Man. Studies; joined Barclays Bank 1941; Asst. Man. of Liverpool (Water Street) Branch 1956; Man. Chester Branch 1961; Local Dir. Liverpool 1965; Asst. Gen. Man. Barclays Bank Ltd. 1968, Gen. Man. 1969, Senior Gen. Man. 1973, Vice-Chair. Barclays Bank Ltd. Jan. 1977-; Chair. Barclays Merchant Bank Ltd. 1977-; mem. CBI Financial Policy Cttee. 1976-, Royal Comm. on Distribution of Income and Wealth 1977-; Dir. English Nat. Opera 1978-; Gov. London Museum 1978-. *Leisure interests:* painting, sailing. *Address:* 96 Old Church Street, London, SW3 6EP, England. *Telephone:* 01-352 0312.

WEYERHAEUSER, Geroge Hunt, B.S.; American timber executive; b. 8 July 1926, Seattle; s. of late J. P. Weyerhaeuser and Helen Walker Weyerhaeuser; m. Virginia Wagner 1948; two s. four d.; ed. Yale Univ.; served in U.S. Navy 1944-46; Weyerhaeuser Co. 1947-, serving respectively as: Shift Supt. 1949-51, Wood Products Man. 1954, Asst. to Exec. Vice-Pres. 1957-58, Man. Wood Products Group, later Vice-Pres. 1958; elected to Board of Dirs. 1960; Exec. Vice-Pres. for Wood Products, Timber and Lands 1961-64, Exec. Vice-Pres. for Operations 1964-66, Pres. and Chief Exec. Officer 1966-; Pres. and Dir. Weyerhaeuser Int. Inc., Weyerhaeuser Int. S.A., Weyerhaeuser Real Estate Co., Weyerhaeuser American Corpn., Weyerhaeuser Co.; Dir. Boeing Co., Puget Sound Nat. Bank, Equitable Life Assurance Soc. of the U.S., Barlow Weyerhaeuser Packaging Investments (Pty.) Ltd., R-W Paper Co., Weyerhaeuser Canada Ltd., and and others; mem. Board of Trustees, Charles Wright Acad., Weyerhaeuser Co. Foundation; mem. Business Council, Japan-Calif. Assen., Advisory Council Stanford Research Inst., Yale School of Forestry and Natural Envinronment, etc. *Leisure interest:* tennis. *Address:* 2525 South 36th Street, Federal Way, Wash. 98002 (Office); 11801 Gravelly Lake Drive, S.W., Tacoma, Wash. 98499, U.S.A. (Home)

WEYMANN, Gert; German theatre director and playwright; b. 31 March 1919, Berlin; s. of Hans Weymann and Gertrud Israel; ed. Grammar School, Berlin, and Berlin Univ.; Asst. Dir., later Dir. Berlin theatre; worked as Dir. in several W. German cities and New York; Lecturer in Drama Dept., American universities 1963, 1966; Lecturer at Goethe Inst., Berlin 1970-; perm. ind. mem. SFB (radio and television plays); Gerhart Hauptmann Prize for Generationen 1954. *Plays:* Generationen, Eh' die Brücken verbrennen; TV Plays: Das. Liebesmahl eines Wucherers, Familie; Radio Plays: Der Anhalter, Die Übergabe. *Address:* 1 Berlin 31, Karlsruherstrasse 7, Germany. *Telephone:* 885 1861.

WEYNEN, Wolfgang, LL.D.; German press agency executive; b. 5 July 1913, Nilvingen, Alsace Lorraine; s. of Wilhelm Weynen and Maria Weynen (née Bremer); m. Lieselotte née Hoffmann 1964; one d.; ed. Univs. of Bonn, Paris, Königsberg and Leipzig; Legal adviser and Deputy Gen. Man. Chamber of Industries and Commerce, Wiesbaden 1946-48, Gen. Man. 1948-55; Gen. Man. Deutsche Press-Agentur 1955-; Hon. Pres. of Alliance Européenne des Agences de Presse 1956, Chair. Satellite Sub-Cttee. of Int. Press Telecommunications Cttee. (IPTC) 1965, mem. Presidency Cultural Cttee. of German-Korean Friendship Assen., Vice-Pres. IPTC 1967-68; Chair. IPTC 1968; Board of Vereinigte Wirtschaftsdienste, Frankfurt; Grosses Verdienstkreuz der Republik Österreich, Chevalier Légion d'Honneur, Grosses Silbernes Ehrenzeichen der Republik Österreich, Commdr. Cross of Italian Repub., Bundesverdienstkreuz 1st Class, Federal Repub. of Germany, Knight, Royal Order of Vasa, Sweden, Commdr. de l'Ordre de la Couronne Belge, Grosses Verdienstkreuz der Bundesrepublik Deutschland. *Publications:* Die Arbeitszeitregelung in kontinuierlichen Betrieben 1938, Nachrichten im Zeitalter der Satelliten 1969. *Address:* dpa-Deutsche Presse-Agentur, 2 Hamburg 13, Mittelweg 38 (Office); 2000 Hamburg 60, Brabandstrasse 7, Federal Republic of Germany (Home). *Telephone:* 4113300 (Office); 51-59-82 (Home).

WEYRAUCH, Wolfgang Karl Joseph; German writer; b. 15 Oct. 1907, Königsberg; m. Margot von Kurnatowski 1946; two s. two d.; ed. Humanistisches Gymnasium, Johann Wolfgang Goethe-Universität, Frankfurt, and Humboldt Universität in Berlin; publr.'s reader Berliner Tageblatt 1934-38, Deutscher Verlag, Berlin 1938-39; Editor Ulenspiegel, Berlin 1946-48; publr.'s reader, Rowohlt Verlag, Hamburg 1950-58; Hörspielpreis der Kriegsblinden for Totentanz 1962; Stereo Hörspielpreis der Rundfunkindustrie und ARD 1967; Johann-Heinrich-Merck Honour of Darmstadt 1972; Andreas-Gryphius Prize 1973; mem. of Jury Leonce und Lena Preis für neue Lyrik; mem. Deutsche Akademie für Sprache und Dichtung, PEN-Zentrum of Fed. Repub. of Germany. *Publications:* Der Main (legend) 1934, Auf der Bewegten Erde (story) 1946, Von des Glücks Barmherzigkeit (poems) 1947, Die Davidsbündler (story) 1948, Tausend Gramm (anthology) 1949, An die Wand geschrieben (poems) 1950, Woher kennen wir uns bloss? (radio

play) 1952, Die Minute des Negers (ballad) 1953, Bericht an die Regierung (story) 1953, Die japanischen Fischer (radio play) 1955, Gesang, um nicht zu sterben (poems) 1956, Mein Schiff, das heisst Taifun (stories) 1959, Anabasis (radio play) 1959, Expeditionen (anthology) 1959, Ich lebe in der Bundesrupublik (anthology) 1960, Totentanz (radio play) 1961, Dialog mit dem Unsichtbaren (radio plays) 1962, Das tapfere Schneiderlein (radio play) 1963, Die Spur (poems) 1963, Alle diese Strassen (anthology) 1965, Alexanderschlacht (radio play) 1965, Etwas geschieht (story) 1966, Das erste Haus hiess Frieden 1966, Ausnahmezustand (anthology) 1966, Ich bin einer, ich bin keiner (stereo radio play) 1967, Auf der bewegten Erde (stories) 1967, Lyrik aus dieser Zeit (anthology with Johannes Poethen) 1967, Federlese P.E.N. Almanach (anthology with Benno Reifenberg) 1967, Feuer, Wasser, Luft und Erde (radio play) 1968, Geschichten zum Weiterschreiben (stories) 1969, Wie geht es Ihnen? (stereo radio play) 1970, 11 Autoren über 1 Jahrzehnt (anthology) 1970, Wie geht es Ihnen? (story) 1971, Ein Clown sagt (story for children 1971, Im Conjunctiv (radio play) 1972, Mit dem Kopf durch die Wand (stories, poems, essays and a radio play) 1972, Das Ende von Frankfurt am Main (stories) 1973, Wer fängt an? (radio play) 1974, Das Signal (radio play) 1974, Beinahe täglich (stories) 1975, Neue Expeditionen (anthology) 1975, Lieber T. (poetry) 1976, Orientierungspunkte (radio play) 1977, Kalenderbuch (anthology) 1977, Das Komma danach (poems) 1977, 2 Litaneien (poems) 1977, Mit dem Kopf durch die Wand (enlarged edn.) 1977, Das Lächeln meines Grossvaters (anthology) 1978, Hans Dumm (stories) 1978, Sonnenblume, Fledermaus (radio play) 1978. *Leisure interest:* detective stories. *Address:* Darmstadt, Alexandraweg 23, Federal Republic of Germany. *Telephone:* 46759.

WHARTON, Clifton R., Jr., PH.D.; American economist and university president; b. 13 Sept. 1926, Boston, Mass.; s. of Hon. Clifton R. Wharton Sr.; m. Dolores Duncan 1950; two s.; ed. Boston Latin School, Harvard Univ., Johns Hopkins Univ. School of Advanced Int. Studies and Univ. of Chicago; Head of Reports and Analysis Dept., American Int. Assen. for Econ. and Social Devt. 1948-53; Research Assoc., Univ. of Chicago 1953-57; Assoc., Agricultural Devt. Council 1957-58, stationed in S.E. Asia 1958-64, Dir. of the Council's American Universities Research Program 1964-66, Vice-Pres. 1967-69, mem. Board of Dirs. 1973-, Pres. Michigan State Univ. and Prof. of Econs. 1970-78; Chancellor, State Univ. of N.Y. 1978-; Visiting Prof., Univ. of Malaysia 1958-64, Stanford Univ. 1964-65; Chair. Board for Food and Agric. Devt. (AID), U.S. Dept. of State; mem. Presidential Comm. on World Hunger, U.S. Latin American Relations; Dir. or Trustee of numerous orgs. including Equitable Life Assurance Soc., Agricultural Devt. Council, Overseas Devt. Council, Rockefeller Foundation, Ford Motor Co., Carnegie Foundation for the Advancement of Teaching. *Publications:* Subsistence Agriculture and Economic Development (ed.) 1969, Patterns of Lifelong Learning (co-author) 1973. *Address:* Office of University Affairs, State University of New York, State University Plaza, Albany, N.Y. 12246, U.S.A. *Telephone:* (518) 473-4055.

WHEARE, Sir Kenneth Clinton, Kt., C.M.G., F.B.A., D.LITT.; British (b. Australian) former college principal; b. 26 March 1907, Warragul, Victoria; s. of Eustace Leonard and Kathleen Wheare; m. 1st Helen Mary Allan 1934, 2nd Joan Randell 1943; three s. two d.; ed. Scotch Coll., Melbourne, Univ. of Melbourne, and Oriel Coll., Oxford; Lecturer Christ Church, Oxford 1934-39; Beit Lecturer in Colonial History, Oxford 1935-44; Fellow of Univ. Coll. Oxford 1939-44, Dean 1942-45; Gladstone Prof. of Govt. and Public Admin., Univ. of Oxford, Fellow of All Souls Coll. 1944-57, Fellow of Nuffield Coll. 1944-58; Rector Exeter Coll. Oxford 1956-72; Pro-Vice-Chancellor Oxford Univ. 1958-64, 1966-72, Vice-Chancellor 1964-66; Pres. British Acad. 1967-71; Constitutional Adviser to Nat. Convention of Newfoundland 1946-47, to Confs. on Central African Fed. 1951, 1952, 1953; Rhodes Trustee 1948-77; mem. Univ. Grants Cttee. 1959-63; Chancellor, Liverpool Univ. 1972-; Fellow of All Souls Coll., Oxford 1973-; Hon. Fellow of Univ. Exeter, Oriel, Nuffield and Wolfson Colls., Oxford; Hon. L.H.D. (Columbia), Hon. LL.D. (Exeter, Liverpool and Manchester), Hon. Litt.D. (Cambridge); Queen's Silver Jubilee Medal 1977. *Publications:* The Statute of Westminster 1931, 1933, The Statute of Westminster and Dominion Status 1938 (5th edn. 1953), Federal Government 1946 (4th edn. 1963), Abraham Lincoln and the United States 1948, Modern Constitutions 1951, Government by Committee 1955, The Constitutional Structure of the Commonwealth 1960, Legislatures 1963, Maladministration and its Remedies 1973. *Leisure interest:* cooking. *Address:* 55 Park Town, Oxford, England *Telephone:* Oxford 53775.

WHEELDON, John Murray, B.A.; Australian barrister, solicitor and politician; b. 9 August 1929, Subiaco, W. Australia; s. of Murray Walter and Marjorie Lillian Wheeldon; m. Judith Tanya Shaw; two s. one d.; ed. Perth Modern School, Univ. of Western Australia; mem. Australian Labor Party, W. Australian State Exec. 1952-; Senator 1965-; Chair. Australian Parl. Cttee. on Foreign Affairs and Defence 1973-75; Minister for Repatriation and Compensation 1974-75, for Social Security June-Nov. 1975; Chair. Australian Parl. Sub-Cttee. on Human Rights in Soviet Union 1978-; *Address:* Commonwealth Parliament Offices, 44 St. Georges Terrace, Perth, W.A. 6000, Australia.

WHEELER, John Archibald, D.SC., PH.D.; American physicist; b. 9 July 1911, Jacksonville, Fla.; s. of Dr. Joseph Lewis Wheeler and Mabel Archibald; m. Janette Latourette Zabriskie Hegner 1935; one s. two d.; ed. Johns Hopkins Univ.; Nat. Research Council Fellow, New York and Copenhagen 1933-35; Asst. Prof. of Physics, Univ. of N.C. 1935-38; Asst. Prof. of Physics, Princeton Univ. 1938-42, Assoc. Prof. 1945-47, Prof. 1947-66, Joseph Henry Prof. of Physics 1966-76, Emer. 1976-; Prof. of Physics, Univ. of Texas at Austin 1976-; Ashbel Smith Prof. of Physics 1979-; Physicist, Manhattan project of U.S. Govt., Chicago, Wilmington, Hanford 1942-45; Dir. Project Matterhorn, Princeton 1951-53; Lorentz Prof., Univ. of Leiden 1956; Fulbright Prof., Univ. of Kyoto 1962; Guggenheim Fellow, Paris and Copenhagen 1949-50; visiting Fellow, Clare Coll. Cambridge 1964; mem. Editorial Board, Physical Review, Review of Modern Physics; Chair. Joint Cttee. of American Physical Soc. and American Philosophical Soc. on History of Theoretical Physics; mem. U.S. Gen. Advisory Cttee. on Arms Control and Disarmament 1969-76; Fellow, American Physical Soc. (Pres. 1966, mem. Council), American Philosophical Soc., A.A.A.S. (mem. Board of Dirs. 1963-68); mem. American Acad. of Arts and Sciences, Nat. Acad. of Sciences; Trustee Battelle Memorial Inst.; Hon. Sc.D. (Western Reserve, Yeshiva and Yale Univs., Univs. of N.C. and Pa. and Middlebury Coll.); Hon. LL.D. (Johns Hopkins) 1976; Hon. Ph.D. (Uppsala, Maryland) 1976; A. Cressy Morrison Prize, N.Y. Acad. of Sciences 1947, Albert Einstein Prize, Strauss Foundation 1965, Enrico Fermi Award, U.S. Atomic Energy Comm. 1968, Franklin Medal of Franklin Inst. 1969, Nat. Medal of Science 1971. *Publications:* Geometrodynamics 1962, Gravitation Theory and Gravitational Collapse 1965, Spacetime Physics 1966, Einstein's Vision 1968, Black Holes, Gravitational Waves and Cosmology (with Rees and Ruffini) 1974, Gravitation (with Thorne and Misner) 1973. *Leisure interests:* swimming, sculpture in nature. *Address:* Department of Physics, University of Texas, Austin, Tex. 78712 (Office); 1410 Wild Cat Hollow, Austin, Tex. 78746, U.S.A. (Home). *Telephone:* (512) 471-3751 (Office); (512) 327-0906 (Home).

WHELAN, Eugene; Canadian farmer and politician; b. 11 July 1924, Amherstburg, Ont.; s. of Charles B. and Frances L. (Kelly) Whelan; m. Elizabeth Pollinger 1960; three d.; ed. Windsor, Ont., vocational and technical school; fmr. mem. Board of Governors, Ont. Fed. of Agric.; fmr. Dir. United Co-operatives, Ont.; fmr. Pres. Essex Co. Fed. of Agric.; mem. House of Commons 1962-; Parl. Sec. to the Minister of Fisheries and Forestry 1968-70; Minister of Agric. 1972-79; mem. of numerous farming orgs.; Canadian Rep. to World Food Council; Kt. of Columbus. *Address:* 727 Front Road North, Amherstburg, Ontario N9V 2V6, Canada (Home). *Telephone:* 736-4042 (Home).

WHELAN, William Joseph, B.SC., PH.D., D.SC.; British biochemist; b. 14 Nov. 1924, Salford; s. of William Joseph Whelan and Jane Antoinette Bertram; m. Margaret Miller Birnie 1951; ed. Univ. of Birmingham. Asst. Lecturer, Univ. of Birmingham 1947-48; Asst. Lecturer, Lecturer and Senior Lecturer, Univ. Coll. of N. Wales 1948-55; Senior mem. Lister Inst. of Preventive Medicine 1956-64; Prof. and Head of Biochem. Dept., Royal Free Hosp. Medical School, Univ. of London 1964-67; Prof. and Chair. of Biochem., Dept., Univ. of Miami, U.S.A. 1967-; Chair. Physiological, Chem. Study Section, Nat. Inst. of Health 1973-75, Cttee. on Genetic Experimentation 1977-; Sec.-Gen. Fed. of European Biochemical Socs. 1965-67, Pan-American Assen. of Biochemical Socs. 1970-71; Gen. Sec. Int. Union of Biochemistry 1973-; Alsberg Award, American Assen. of Cereal Chemists 1967, CIBA Medal of the British Biochemical Soc. 1969, Award of Merit, Japanese Soc. of Starch Science 1975, Soare Medal, Assen. of Cereal Research 1979. *Publications:* (editor) Control of Glycogen Metabolism 1964, 1968, Carbohydrate Metabolism and its Disorders 1968, Biochemistry of Carbohydrates 1975, Trends in Biochemical Sciences 1976-78. *Address:* Department of Biochemistry, University of Miami, P.O. Box 016129 Miami, Fla. (Office); Apt. 1003, 1420 South Bayshore Drive, Miami, Fla. 33131, U.S.A. (Home). *Telephone:* (305) 547-6265 (Office); (305) 373-8039 (Home).

WHELDON, Sir Huw P., Kt., O.B.E., M.C.; British (Welsh) television executive; b. 7 May 1916, Prestatyn; s. of late Sir Wynn

Wheldon and of Lady Wheldon; m. Jacqueline Mary (née Clarke) 1956; one s. two d.; ed. Friars School, Bangor and London School of Econs.; with Kent Educ. Cttee. 1939; active service 1940-45; Dir. Arts Council for Wales 1946; Festival of Britain Directorate 1949; B.B.C. Television 1952-, Producer 1953-62, Head of Documentary Programmes 1962, Head of Music and Documentary Programmes 1963-65, Controller of Programmes 1965-68, Man. Dir. Television 1969-75; Special Adviser BBC 1975-; Consultant, NBC 1977-; Chair and mem. Court of Govs. L.S.E.; Trustee, Nat. Portrait Gallery; mem. Council, Hon. Soc. of Cymmrodorian, Nat. Film School Council, Royal Coll. of Art: Hon. Fellow, L.S.E., Manchester Coll. of Arts and Design; Fellow, Royal Soc. of Arts; Hon. D.Litt. (New Univ. of Ulster) 1975; Guild of Television Producers Award for Best British Documentary 1958; Ford Foundation Award 1959; TV Soc. Gold Medal 1976., Hon. LL.D. (Wales) 1978. *Publication:* Monitor: An Anthology 1962. *Leisure interest:* golf. *Address:* 120 Richmond Hill, Richmond, Surrey, England.

WHINNERY, John Roy, PH.D.; American professor of electrical engineering; b. 26 July 1916; s. of Ralph Vincent and Edith Bent Whinnery; m. Patricia Barry 1944; three d.; ed. Modesto Junior Coll. Calif., Univ. of Calif. Berkeley; Student Engineer to Research Engineer, Gen. Electric Co. 1937-46; Lecturer, Union Coll., Schenectady, N.Y., 1945-46; Univ. of Calif., Berkeley, Lecturer, Assoc. Prof., Prof., Chair. of Dept., Dean of Coll. 1959-63; (on leave from Univ. of Calif.) Guggenheim Fellow E.T.H. Zurich Switzerland 1959; Head of Microwave Tube Research at Hughes Aircraft Co., Culver City Calif. 1952-53; visiting mem. of Tech. Staff, Bell Telephone Labs. 1963-64; Visiting Prof. Stanford Univ. 1969-70; Research Professorship in Miller Inst. for Basic Research in Science 1973-74; mem. of Nat. Acad. of Eng. 1965, Nat. Acad. of Sciences 1973; Educ. Medal Inst. Electronics and Electrical Engineers; Lamme Award of American Soc. on Eng. Educ. 1975; Microwave Career Award of Inst. Electronics and Electrical Eng. 1976. *Publications:* Fields and Waves in Modern Radio (with Simon Ramo) 1944, 1952, World of Engineering 1965, Fields and Waves in Communication Electronics (with Simon Ramo and T. Van Duzer) 1965, Introduction to Electronic Systems Circuits and Devices (with D. O. Pederson and J. J. Studer) 1966, 140 technical articles and patents on microwaves and lasers. *Leisure interests:* hiking, skiing, golf, writing poetry and children's stories. *Address:* Department of Electrical Engineering and Computer Sciences, Univ. of Calif., Berkeley, Calif. 94720 (Office); 1 Daphne Court, Orinda, Calif. 94563, U.S.A. (Home). *Telephone:* (415) 642-1030 (Office); (415) 254-3098 (Home).

WHIPPLE, Fred Lawrence, PH.D.; American astronomer; b. 5 Nov. 1906, Red Oak, Iowa; s. of Harry Lawrence Whipple and Celestia (MacFarland) Whipple; m. 1st Dorothy Woods 1928, 2nd Babette Samuelson 1946; one s. two d.; ed. Univ. of California; mem. Staff Harvard Coll. Observatory 1931; in charge of Oak Ridge Station 1932-37; Instructor 1932-38, Lecturer 1938-45, Associate Prof. 1945-50, Prof. of Astronomy 1950-, Chair. Dept. of Astronomy 1949-56, Phillips Prof. of Astronomy 1968-77; Chair. Cttee. on Concentration in the Physical Sciences 1947-49; Research Associate Radio Research Lab. 1942-45, in charge of Confusion Reflectors "Window" (radar countermeasure); Dir. Smithsonian Inst. Astrophysical Observatory 1955-73, Senior Scientist 1973-; mem. Rocket and Satellite Research Panel 1946-, U.S. Nat. Advisory Cttee. on Aeronautics Sub-Cttee. 1946-52, U.S. Research and Development Board Panel 1947-52, U.S. Nat. Cttee. I.G.Y. 1955-59, Advisory Panel on Astronomy to the Nat. Science Foundation 1952-55 and Chair. 1954-55, mem. Div. Cttee. for Mathematical and Physical Sciences 1964-, many other scientific cttees., etc.; Project Leader, Harvard Radio Meteor Project 1958-; mem. NASA Optical Astronomy Panel, Astronomy Missions Board 1968; mem. NASA Science and Technology Advisory Cttee. 1969; mem. NASA Comet and Asteroid Working Group 1971-72, Chair. 1972-; Voting Rep. of U.S.A. in Int. Astronomical Union 1952 and 1955; Assoc. Editor Astrophysical Journal 1952-54, Astronomical Journal 1954-56, 1964-; Editor Planetary and Space Science 1958-, Harvard's Announcement Cards 1952-60, Smithsonian Contributions to Astrophysics 1956-; Lowell Lecturer, Lowell Inst. Boston 1947; Vice-Pres. American Astronomical Soc. 1948-50, 1960-, Cttee. on Space Research (COSPAR) 1960-; Ed. Board Space Science Reviews 1961-; Ed. Cttee. Annual Review of Astronomy and Astrophysics 1965-; mem. R.S.A., Benjamin Franklin Fellow 1968-; Assoc. Royal Astronomical Soc. 1970; Hon. M.A., Hon. D.Sc., Hon. D.Litt., Hon. LL.D., Donohue Medals, Pres. Certificate of Merit, J. Lawrence Smith Medal of Nat. Acad. of Sciences, Exceptional Service Award (U.S.A.F.), Liège Univ. Medal, Space Flight Award, Commr. of Order of Merit for Research and Invention; Distinguished Federal Civilian Service Award from President Kennedy, Alumnus of the Year Achievement Award (Univ. of Calif.) 1976 and other awards; Leonard Medal, Meteoritical Soc. 1970, Nat. Civil Service League's Career Service Award for Sustained Excellence 1972, Kepler Medal, A.A.A.S. *Publications:* Earth, Moon and Planets 1942 and many scientific papers. *Leisure interests:* scuba diving, stochastic painting, cycling. *Address:* Smithsonian Astrophysical Observatory, 60 Garden Street, Cambridge, Mass. 02138; 35 Elizabeth Road, Belmont, Mass. 02178, U.S.A. (Home).

WHISTLER, Laurence, C.B.E., B.A., F.R.S.L.; British writer and glass engraver; b. 21 Jan. 1912, Eltham, Kent; s. of Henry Whistler and Helen Ward; brother of the late Rex Whistler; m. 1st Jill Furse 1939 (died 1944), one s. one d.; m. 2nd Theresa Furse (younger sister of Jill Furse) 1950, one s. one d.; ed. Stowe School, Balliol Coll., Oxford; served World War II, commissioned 1941; Hon. Fellow, Balliol Coll.; First Pres. Guild of Glass Engravers 1975; King's Gold Medal for poetry 1935, Atlantic Award for Literature 1945; work on glass includes: goblets in point-engraving and drill, engraved church windows and panels at Sherborne Abbey, Moreton, Dorset, Checkendon, Oxon., Ilton, Somerset, Eastbury, Berks., Guards' Chapel, London, Ashmansworth, Berks., Sheep, Hants.; exhbns.; Agnews, Bond Street 1969, Marble Hill, Twickenham 1972, Corning Museum, U.S.A. 1974, Ashmolean, Oxford 1976. *Publications:* Sir John Vanbrugh (biography) 1938, The English Festivals 1947, Rex Whistler, His Life and His Drawings 1948, The World's Room (Collected Poems) 1949, The Engraved Glass of Laurence Whistler 1952, Rex Whistler: the Königsmark Drawings 1952, The Imagination of Vanbrugh and His Fellow Artists 1954, The View From This Window (poems) 1956, Engraved Glass 1952-58, The Work of Rex Whistler (co-author) 1960, Audible Silence (poems) 1961, The Initials in the Heart: the story of a marriage 1964, To Celebrate Her Living (poems) 1967, Pictures on Glass 1972, The Image on the Glass 1975. *Address:* The Old Manor, Alton Barnes, Marlborough, Wilts., SN8 4LB, England. *Telephone:* Woodborough (067285) 515.

WHITAKER, Thomas Kenneth, M.SC.(ECON.); Irish financial administrator and Senator; b. 8 Dec. 1916, Rostrevor, Co. Down; s. of Edward Whitaker and Jane O'Connor; m. Nora Fogarty 1941; five s. one d.; ed. Christian Brothers' School, Drogheda; entered Irish Civil Service 1934; Sec. Dept. of Finance 1956-69; Dir. Cen. Bank of Ireland 1958-69, Gov. 1969-76; Dir. Bank of Ireland 1976-; mem. Senate; Pres. Econ. and Social Research Inst.; Dir. Arthur Guinness Son and Co. Ltd.; Chancellor, Nat. Univ. of Ireland; mem. Royal Irish Acad.; Hon. D.Econ.Sc. (Nat. Univ. of Ireland), Hon. LL.D. (Univ. of Dublin); Commdr., Légion d'honneur. *Publication:* Financing by Credit Creation. *Leisure interests:* angling, golf, music. *Address:* 148 Stillorgan Road, Donnybrook, Dublin 4, Ireland.

WHITCOMB, Hon. Edgar D.; American lawyer, businessman and politician; b. 6 Nov. 1917; s. of John W. Whitcomb and Louise Doud; m. Patricia Louise Dolfuss 1951; one s. four d.; ed. Indiana Univ. U.S. Army Air Corps World War II; mem. Indiana State Senate 1951-54; Asst. U.S. Attorney Southern Dist. Ind. 1955-56; law practice 1956-66, 1973-; Chair. Great Lakes Comm. 1965-66; Sec. of State of Ind. 1966-68, Gov. 1969-73; Dir. World Trade Center, Indianapolis, U.S. Auto Club 1973-; retd. Col. U.S.A.F. Reserve; Hon. LL.D. Indiana Univ. 1974; Republican. *Publication:* Escape from Corregidor. *Leisure interests:* cycling, sailing and riding. *Address:* Vehslage Building, Seymour, Ind. 47274 (Office); 636 North Poplar, Seymour, Ind. 47274, U.S.A. (Home). *Telephone:* 812-522-9537 (Office); 812-522-5454 (Home).

WHITE, Baroness (Life Peer), cr. 1970, of Rhymney, Mon.; **Eirene Lloyd White;** British politician; b. 9 Nov. 1909, Belfast; d. of late Dr. Thomas Jones; m. John Cameron White 1948 (died 1968); ed. St. Paul's Girls' School, and Somerville Coll., Oxford; Ministry of Labour 1941-45; Parl. journalist 1945-49; Labour M.P. for E. Flintshire 1950-70; Parl. Under-Sec. of State, Colonial Office 1964-66; Minister of State, Foreign Office 1966-67; Minister of State for Wales 1967-70; mem. Nat. Exec. Cttee., Labour Party 1947-53, 1957-72, Chair. 1968-69; Deputy Chair. Metrication Board 1972-76; Chair. Land Authority for Wales 1975-; mem. Royal Comm. on Environmental Pollution 1974-, British Waterways Board 1974-, Univ. Grants Cttee. 1977-; Pres. Nat. Council of Women (Wales); Pres. Council for the Protection of Rural Wales; Vice-Pres. Commonwealth Countries' League. *Address:* 36 Westminster Gardens, Marsham Street, London, SW1P 4JD, England. *Telephone:* 01-828 3320.

WHITE, Abraham, PH.D.; American professor of biochemistry; b. 18 March 1908, Cleveland, Ohio; s. of Morris and Lena White; m. Edna Shapiro 1937; no c.; ed. Univs. of Denver and Mich.; Post-doctoral Research Fellow, Physiological Chem., Yale Univ. School of Medicine 1931-33. Instructor 1933-38. Asst. Prof. 1937-43, Assoc.

Prof. 1943-48; Prof. and Chair. Dept. of Physiological Chem., Univ. of Calif. School of Medicine, Los Angeles 1948-51; Vice-Pres. and Dir. of Research, Chemical Specialities Co., Inc., New York 1951-53, Visiting Lecturer in Biochem., Coll. of Physicians and Surgeons, Columbia Univ.; Prof. and Chair. Dept. of Biochem. and Assoc. Dean, Albert Einstein Coll. of Medicine 1953-72, Visiting Prof. 1972-76, Prof. Emer. 1976-; Distinguished Scientist Syntex Research Laboratories 1972-; Consulting Prof. of Biochem., Stanford Univ. School of Medicine 1972-; mem. Nat. Acad. of Sciences; Hon. L.H.D. (Yeshiva) 1959, Sc.D. (Univ. of Denver) 1975; Eli Lilly Prize 1938, Distinguished Alumni Award (Denver) 1960, Sesquicentennial Alumni Award (Univ. of Mich.) 1967, Borden Award 1969. *Publications:* Principles of Biochemistry (co-author), and approximately 200 articles in scientific journals. *Leisure interests:* classical music, art, theatre, archaeology, anthropology. *Address:* 580 Arastradero Apt. 507, Palo Alto, Calif. 94306, U.S.A. *Telephone:* 415-493-1492.

WHITE, Elwyn Brooks, B.A.; American writer and editor; b. 11 July 1899; ed. Cornell Univ.; comment writer, reporter, and contributor to The New Yorker magazine; also contributed monthly department called "One Man's Meat,' to Harper's 1938-43; Fellow, American Acad. of Arts and Sciences; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Letters; Litt.D. (Dartmouth Coll., Hamilton Coll., Univs. of Maine, Yale, Harvard, Bowdoin Coll., Colby Coll.); Gold Medal, American Acad. of Arts and Letters; Presidential Medal of Freedom 1963; Laura Ingalls Wilder Award 1970; Nat. Medal for Literature 1971; Pulitzer Award 1978. *Publications:* The Lady is Cold 1929, Is Sex Necessary? (with James Thurber) 1929, Every Day is Saturday 1934, The Fox of Peapack 1938, Quo Vadimus? 1939, One Man's Meat 1942, enlarged 1944, Stuart Little 1945, The Wild Flag 1946, Here is New York 1949, Charlotte's Web 1952, The Second Tree from the Corner 1954, The Points of My Compass 1962, The Trumpet of the Swan 1970; editor (with Katharine S. White) A Subtreasury of American Humor 1941, Letters of E. B. White 1976, Essays of E. B. White 1977. *Address:* 25 West 43rd Street, New York, N.Y. 10036 (Office); North Brooklin, Maine 04661, U.S.A. (Home).

WHITE, Sir Frederick William George, K.B.E., PH.D., F.A.A., F.R.S.; Australian physicist; b. 1905, Wellington, New Zealand; s. of W. H. White; m. Elizabeth Cooper 1932; one s. one d.; ed. Victoria Univ. Coll., New Zealand, and Cambridge Univ.; post-graduate work at Cavendish Lab., Cambridge 1929-31; Demonstrator in Physics, Lecturer in Physics, King's Coll. London 1931-37; Prof. of Physics, Canterbury Univ. Coll. New Zealand 1937; seconded to Council for Scientific and Industrial Research as Chair. Radiophysics Advisory Board 1941; Chief Div. of Radiophysics 1942; Exec. Officer C.S.I.R. 1945, mem. Exec. Cttee. 1946, Chief Exec. Officer CSIRO 1949-56, Deputy Chair. CSIRO 1957-59, Chair. 1959-70; Hon. D.Sc. (Monash Univ., Melbourne, Australian Nat. Univ., Canberra, Univ. of Papua New Guinea). *Publications:* Electromagnetic Waves 1934 and numerous scientific papers. *Leisure interests:* fishing, walking. *Address:* 57 Investigator Street, Red Hill, Canberra, A.C.T. 2603, Australia.

WHITE, George David Lloyd, M.V.O., M.A.; New Zealand former diplomatist; b. 21 March 1918, Nelson; s. of G. D. and F. E. White; m. Miranda Turnbull 1946; one s.; ed. Canterbury Univ., Christchurch; served with New Zealand Army in Middle East 1941-45; Econ. Stabilization Comm. 1945-49; joined Ministry of Foreign Affairs 1949; Econ. Counsellor, London 1954-55; Counsellor, Wash. 1956-58, Chargé d'Affaires 1958-60; Deputy High Commr. to U.K. 1961-64; Deputy Sec. for Foreign Affairs 1964-72; Amb. to U.S.A. 1972-78. *Leisure interests:* golf, tennis, fly fishing. *Address:* 11a Hathaway Avenue, Lower Hutt, Wellington, New Zealand.

WHITE, Sir Harold Leslie, Kt., C.B.E., M.A., F.L.A.A., F.A.S.S.A.; Australian librarian; b. 14 June 1905; s. of James White and Beatrice Hodge; m. Elizabeth Wilson, M.B.E.; two s. two d.; ed. Wesley Coll., Melbourne, and Queen's Coll. of Melbourne Univ.; Commonwealth Parl. Library 1923-67, Parl. Librarian 1947-67; Nat. Librarian, Nat. Library of Australia 1947-70; Chair. Standing Cttee. Australian Advisory Council on Bibliographical Services 1960-70; Gov. Australian Film Inst. 1958-77; Chair. Advisory Cttee. Australian Encyclopaedia 1970-; mem. Nat. Memorials Cttee. 1975-, Australian Cttees. for UNESCO, Australian Nat. Film Board; mem. UNESCO Int. Cttee. Bibliography, Documentation and Terminology 1961-65; Hon. F.A.H.A.; retd. 1970. *Publication:* (ed.) Canberra: A Nation's Capital. *Address:* 27 Mugga Way, Red Hill, Canberra, A.C.T. 2603, Australia (Home).

WHITE, Lee Calvin, B.S., LL.B.; American lawyer and government official; b. 1 Sept. 1923, Omaha, Neb.; m. Dorothy Cohn 1944; five c.; ed. Univ. of Nebraska, and Lehigh Univ.; lawyer, Div. of Law, Tennessee Valley Authority 1950-54; Legis. Asst. on staff of Senator John F. Kennedy 1954, 1955-57; Counsel to Senate Small Business Cttee. 1957-58; Admin. Asst. to Senator Cooper of Kentucky 1958-61; Asst. Special Counsel to Pres. Kennedy 1961-64; Special Counsel to Pres. Johnson 1965-66; Chair. Fed. Power Comm. 1966-69; in private practice of firm White, Fine and Ambrogne; Campaign Man. for R. Sargent Shriver 1972. *Address:* 1156 15th Street, N.W., Washington, D.C. 20005, U.S.A. *Telephone:* 202-659-2900.

WHITE, Michael James Denham, D.SC., F.R.S., F.A.A.; Australian geneticist; b. 20 Aug. 1910, London; s. of James Kemp White and Una Theodora Chase; m. Isobel Mary Lunn 1939; two s. one d.; ed. Univ. Coll. London; Asst. Lecturer in Zoology, Univ. Coll. London 1933-36, Lecturer 1936-46; Rockefeller Foundation Fellow, Columbia Univ. 1937-38; Reader in Zoology, Univ. Coll. London 1947; Guest Investigator, Carnegie Inst. of Washington, Dept. of Genetics 1947; Prof. of Zoology, Univ. of Texas 1947-53; Senior Research Fellow CSIRO, Canberra, Australia 1953-56; Prof. of Zoology, Univ. of Missouri 1957-58; Prof. of Zoology, Univ. of Melbourne 1958-64, Prof. of Genetics 1964-76; Visiting Fellow, Australian Nat. Univ. 1976-; Hon. Foreign mem. American Acad. of Arts and Sciences 1963; Foreign mem. American Philosophical Soc., Accademia Nazionale dei Lincei 1978; Mueller Medal, Australian and N.Z. Assn. for the Advancement of Science 1965. *Publications:* The Chromosomes 1937 (numerous later edns. and translations), Animal Cytology and Evolution 1945, 1954, 1973, Genetic Mechanisms of Speciation in Insects (editor) 1974, Modes of Speciation 1978; numerous papers in scientific journals. *Leisure interest:* travel. *Address:* Department of Population Biology, Research School of Biological Sciences, Australian National University, Box 475, Canberra City, A.C.T. 2601; 20 Blackbutt Street, O'Connor, A.C.T. 2601, Australia (Home). *Telephone:* (062) 49-4538 (Office); (062) 47-0228 (Home).

WHITE, Patrick, B.A.; Australian writer; b. 28 May 1912, London, England; s. of Victor White and Ruth Withycombe; ed. Cheltenham Coll., and King's Coll., Cambridge; Intelligence officer, R.A.F., World War II; W. H. Smith & Son Award 1959; Nobel Prize for Literature 1973; Companion, Order of Australia 1975; resgnd. from Order of Australia June 1976. *Publications:* Happy Valley 1939, The Living and the Dead 1941, The Aunt's Story 1948, The Tree of Man 1955, Voss 1957, Riders in the Chariot 1961, The Burnt Ones 1964, Four Plays 1965, The Solid Mandala 1966, The Vivisector 1970, The Eye of the Storm 1973, The Cockatoos 1974, A Fringe of Leaves 1976, Big Toys (play) 1977, The Night The Prowler (screenplay) 1977. *Address:* 20 Martin Road, Centennial Park, Sydney, N.S.W. 2021, Australia.

WHITE, Raymond Walter Ralph, A.C.A., F.C.I.S.; New Zealand banker; b. 23 June 1923; s. of Henry Underhill White and Ethel Annie White; m. Nola Colleen Adin 1946; one s. two d.; ed. Queen Elizabeth Coll., Palmerston North; Deputy Chief Cashier, Reserve Bank of New Zealand 1962, Deputy Gov. 1967, Gov. 1977-. *Leisure interests:* tennis, gardening, golf. *Address:* Reserve Bank of New Zealand, Box 2498, Wellington; 63 Chatsworth Road, Silverstream, New Zealand (Home). *Telephone:* 722-029 (Office); 282-084 (Home).

WHITE, Robert M., II; American journalist; b. 6 April 1915, Mexico, Mo.; s. of L. Mitchell White and Maude (née See) White; m. Barbara Spurgeon 1948; one s. three d.; ed. Missouri Military Acad., and Washington and Lee Univ.; with United Press 1939; Army service 1940-45; Pres., Co-Ed. and Co-Publisher Mexico (Missouri) Ledger 1945-; Ed. and Pres. New York Herald Tribune 1959-61: Dir. American Newspaper Publishers' Assn. 1955-63, Treas. 1962-63; Dir. New York World's Fair (64-65); fmr. Chair. Associated Press Nominating Cttee.; fmr. Chair. and Pres. of Board Inland Daily Press Assn.; Dir. Stephen's Coll.; Pres. See TV Co. 65-; American Cttee. Int. Pres. Inst., Vice-Chair. 1968-71; Dir. American Soc. of Newspaper Editors 1968-70; Dir. Missouri Mil. Acad.; Visiting Prof., Univ. of Missouri 1968-69; mem. Pulitzer Prize Jury for Journalism 1964-66; Chair. American Soc. of Newspaper Editors Freedom of Information Cttee. 170-72; Chair. Missouri Free Press-Fair Trial Cttee.1970-74; Vice-Pres. Mo. Inst. for Justice; mem. Board of Dirs. Mexico Bank of Commerce, Associated Press, Commerce Bancshares Inc., Butler Mfg. Co., Board of Dirs. Washington Journalism Center 1972-, McArthur Memorial Foundations, State Historical Soc. of Missouri, Missouri Public Expenditure Survey, Board of Dirs. Commerce Bank of St. Louis, Washington and Lee Univ. Alumni Inc., Ketc-TV, St. Louis; Pres. Mark Land Co. 1956-; Distinguished Service to Journalism Award, Univ. of Missouri 1967, Nat. Newspapers Assn. Pres. Award of Merit 1967. *Publications:* A study of the Printing and Publishing Business in the Soviet Union (co-author), China Journey, Second Journey To China. *Leisure interests:* hunting, golfing. *Address:*

Box 8, Ledger Plaza, Mexico, Mo. 65265 (Office); 3 Park Circle, Mexico, Mo. 65265, U.S.A. *Telephone:* (314) 581-1111 (Office); (314) 581-2522 (Home).

WHITE, Robert Mayer, SC.D.; American meteorologist; b. 13 Feb. 1923, Boston, Mass.; s. of David and Mary White; m. Mavis Seagle 1948; one s. one d.; ed. Harvard Univ., and Massachusetts Inst. of Technology; war service with U.S.A.F., exec. at Atmospheric Analysis Lab., Geophysics Research Directorate, Air Force Cambridge Research Center 1952-58, Chief of Meteorological Devt. Lab. 1958; Research Assoc. M.I.T. 1959; Travelers Insurance Cos. 1959-60, Pres. Travelers Research Center, Hartford 1960-63; Chief of Weather Bureau, U.S. Dept. of Commerce 1963-65; Admin. Environmental Science Services Admin., U.S. Dept. of Commerce 1965-70; Perm. Rep. and mem. Exec. Cttee. of World Meteorological Org.; Administrator Nat. Oceanic and Atmospheric Admin. 1971-; Chair. Climate Research Board of Nat. Acad. of Sciences 1977-; mem. Exec. Cttee. American Geophysical Union, Council Nat. Acad. of Eng., Marine Technological Soc., Royal Meteorological Soc.; mem. of numerous weather research cttees., Commr. Int. Whaling Comm. *Leisure interests:* gardening, reading. *Address:* National Oceanic and Atmospheric Administration, U.S. Department of Commerce, Washington, D.C. 10230 (Office); 8306 Melody Court, Bethesda, Md. 20034, U.S.A. (Home). *Telephone:* 202-967-3567 (Office); 301-365-3927 (Home).

WHITE, Theodore H., A.B.; American writer; b. 6 May 1915, Boston Mass.; s. of David White and Mary (Winkeller) White; m. 1st Nancy Bean 1947 (divorced 1971); one s. one d.; m. 2nd Beatrice Hofstadter 1974; ed. Boston Latin School and Harvard Univ.; Far Eastern Corresp., Time magazine 1939-45; Ed. New Republic 1947; European Corresp.-in-Chief, Overseas News Agency 1948-50; Chief European Corresp. The Reporter magazine 1950-53, Nat. Corresp. 1954-55; Nat. Corresp. Colliers 1955-56; Consultant to Columbia Broadcasting System 1961-64; fmr. mem. Board of Overseers, Harvard Coll., Board of Dirs. Encyclopaedia Britannica; Air Medal 1944; Benjamin Franklin Award 1956; Overseas Press Club Award; Pulitzer Prize 1962, Emmy Award 1964, 1967. *Publications:* Thunder out of China 1946, Stilwell Papers 1948, Fire in the Ashes 1953, The Mountain Road 1958, The View from the Fortieth Floor 1960, The Making of the President 1960 1961, The Making of the President 1964 1965, Caesar at the Rubicon 1968, The Making of the President 1968 1969, The Making of the President 1972 1973, Breach of Faith: The Fall of Richard Nixon 1975. *Leisure interests:* boating, painting, talk. *Address:*168 East 64th Street, New York, N.Y. 10021 (Office); Old Route 67, Bridgewater, Conn. 06752, U.S.A. (Home).

WHITE, William Smith; American journalist; b. 20 May 1907; ed. Univ. of Texas, held various posts with Associated Press (News Editor, War Editor and War Corresp.); mem. Washington staff, The New York Times 1945-57; Chief Congressional corresp. 1957-58; nationally syndicated Political Columnist 1958-74; Regents Prof. Univ. of Calif. (Berkeley) 1957-58; Contributing Editor Harper's Magazine 1960-62; Pulitzer Prize in Letters, etc. *Publications:* The Taft Story 1954, Citadel: The Story of the U.S. Senate 1957, Majesty and Mischief: A Mixed Tribute to F.D.R. 1961, The Professional: Lyndon B. Johnson 1964, Home Place: The Story of the U.S. House of Representatives 1965, The Responsibles 1972. *Address:* Box 401, Madison, Conn. 06443, U.S.A.

WHITEHEAD, George William, PH.D.; American mathematician; b. 2 Aug. 1918, Bloomington, Ill.; s. of George William Whitehead and Mary Gutschlag Whitehead; m. Kathleen Ethelwyn Butcher 1947; ed. Univ. of Chicago; Instructor in Math. Purdue Univ. 1941-45, Princeton Univ. 1945-47; Asst. Prof. of Math. Brown Univ. 1947-48, Assoc. Prof. 1948-49; Asst. Prof. of Math. M.I.T. 1949-51, Assoc. Prof. 1951-57, Prof. 1957-; Fellow, American Acad. of Arts and Sciences 1954; mem. Nat. Acad. of Sciences 1972-. *Publications:* Homotopy Theory 1966, Recent Advances in Homotopy Theory 1970, and articles in scientific journals. *Leisure interests:* bridge, archaeology, genealogy. *Address:* Room 2-284 Massachusetts Institute of Technology, Cambridge, Mass. 02139; 25 Bellevue Road, Arlington, Mass. 02174, U.S.A. (Home). *Telephone:* 617-253-4991 (Office); 617-643-0911 (Home).

WHITEHOUSE, Alton Winslow, Jr., LL.B.; American oil executive; b. 1 Aug. 1927, Albany, N.Y.; s. of Alton Winslow and Catherine L. Whitehouse; m. Helen MacDonald 1953; two s. one d.; ed. Univ. of Virginia; Assoc. Partner, McAfee, Hanning, Newcomber, Hazlett & Wheeler 1952-68; Vice-Pres. and General Counsel, Standard Oil Co. of Ohio 1968-69, Senior Vice-Pres. and Gen. Counsel 1969, Pres. and Chief Operating Officer 1970-76, Vice-Chair. 1977-78, Chair. 1978-. *Leisure interests:* hunting, fishing, golf. *Address:* 1750 Midland Building, Cleveland, Ohio 44115, U.S.A. *Telephone:* 575-5482 (Office).

WHITEHOUSE, Charles S.; American diplomatist; b. 5 Nov. 1921, Paris, France; ed. Yale Univ.; Marine Corps 1943-46; research analyst, Dept. of Defense 1947-48; Dept. of State 1948-; Political Officer U.S. mission, Istanbul, Turkey 1952-54, Embassy Cambodia 1954-56; Special Asst. to Under-Sec. of State for Econ. Affairs 1956-69; Political Officer S. Africa 1959-62; Int. Relations Officer, Washington, D.C. 1962-65; Nat. War Coll. 1965-66; Deputy Chief of Mission and Counsellor, Guinea 1966-69; Regional Dir. AID, S. Viet-Nam 1969-70; Acting Deputy Asst. Sec. of State for E. Asian-Pacific Affairs 1970-71; Deputy Chief of Mission of Counsellor, S. Viet-Nam 1972-73; Amb. to Laos 1973-75, to Thailand 1975-78; State Dept. Superior Honor Award 1968, AID Distinguished Honor Award 1971, State Dept. Distinguished Honor Award 1973. *Address:* c/o Department of State, 2201 C Street, N.W., Washington, D.C. 20520, U.S.A.

WHITELAW, Rt. Hon. William (Stephen Ian), C.H., M.C., D.L., M.P.; British politician; b. 28 June 1918, Edinburgh; s. of Mr. and Mrs. W. A. Whitelaw; m. Cecilia Doriel Sprot; four d.; ed. Winchester Coll. and Trinity Coll., Cambridge; M.P. for Penrith and Border Div. of Cumberland 1955-; Parl. Private Sec. to Chancellor of Exchequer 1957-58; Asst. Govt. Whip 1959-61; ■ Lord Commr. of the Treasury 1961-62; Parl. Sec. Ministry of Labour 1962-64; Opposition Chief Whip 1964-70; Lord Pres. of Council and Leader of House of Commons 1970-72; Sec. of State for N. Ireland 1972-73, for Employment 1973-74; Chair. Conservative Party 1974-75; Deputy Leader of the Conservative Party 1975-; Opposition Spokesman on Home Affairs 1975-79; Home Sec. May 1979-. *Leisure interests:* golf, shooting. *Address:* House of Commons, London, S.W.1, England.

WHITLAM, (Edward) Gough, A.C., Q.C., B.A., LL.B.; Australian barrister and politician; b. 11 July 1916, Melbourne; s. of H. F. E. Whitlam; m. Margaret Dovey 1942; three s. one d.; ed. Knox Grammar School, Sydney, Canberra High School, Canberra Grammar School and Univ. of Sydney; R.A.A.F. 1941-45; admitted to New South Wales Bar 1947; mem. House of Reps. 1952-78; mem. Parl. Cttee. on Constitutional Review 1956-59; mem. Federal Parl. Exec. of Australian Labor Party 1959-77; Deputy Leader of Australian Labor Party in Fed. Parl. 1960-67, Leader 1967-77; Leader of the Opposition 1967-72, 1975-77; Prime Minister 1972-75, concurrently Minister of Foreign Affairs 1972-73; mem. Australian Constitutional Convention 1973-76; Vice-Pres. Socialist Int. 1976-77; Visiting Fellow (Lecturing in Political Science and Int. Relations) Australian Nat. Univ. 1978-; Visiting Prof. Harvard Univ. 1979. *Publications:* Australian Foreign Policy 1963, Australia—Base or Bridge (Evatt Memorial Lecture) 1966, Beyond Vietnam—Australia's Regional Responsibilities 1968, An Urban Nation 1969, The New Federalism 1971, Towards ■ New Australia—Australia and Her Region 1972, Labor in Power 1972, Australian Public Administration and the Labor Government (Sir Robert Garran Oration) 1973, Australia's Foreign Policy: New Directions, New Definitions (Roy Milne Memorial Lecture) 1973, The Labor Government and the Constitution 1976, On Australia's Constitution (articles and lectures 1957-77) 1977, Reform During Recession 1978, The Truth of the Matter 1979. *Address:* Australian National University, P.O. Box 4, Canberra, A.C.T. 2600, Australia. *Telephone:* (062) 494790.

WHITMAN, Marina von Neumann, PH.D.; American economist; b. 6 March 1935, New York, N.Y.; d. of John von Neumann and Mariette Kovesi (Mrs. J. B. H. Kuper); m. Robert F. Whitman 1956; one s. one d.; ed. Radcliffe Coll. and Columbia Univ.; Lecturer in Econs., Univ. of Pittsburgh 1962-64, Asst. Prof. 1964-66, Assoc. Prof. 1966-71, Prof. of Econs. 1971-; Senior Staff Economist, Council of Econ. Advisers 1970-71; mem. President's Price Comm. 1971-72; mem. President's Council of Econ. Advisers (with special responsibility for int. monetary and trade problems) 1972-73; mem. President's Advisory Group on Contributions of Tech. to Econ. Strength 1975-76; Distinguished Public Service Prof. of Econs., Univ. of Pittsburgh 1973-; mem. Exec. Cttee. American Econ. Assn.; mem. Board of Overseers, Harvard Univ. 1972-78, Board of Dirs. Council on Foreign Relations, Trilateral Comm., Comm. on Critical Choices for Americans, Brookings Panel on Econ. Activity 1974; mem. Board of Dirs. Mfrs. Hanover Trust Co., Westinghouse Electric Corpn., the Procter and Gamble Co. *Publications:* various books and articles on economic topics. *Address:* Department of Economics, University of Pittsburgh, Pittsburgh, Pa. 15260; 5440 Aylesboro Avenue, Pittsburgh, Pa. 15260; 5440 Aylesboro Avenue, Pittsburgh, Pa. 15217, U.S.A. (Home). *Telephone:* 412-624-5710 (Office).

WHITNEY, Hassler, MUS.B., PH.D.; American educator; b. 23 March 1907; ed. Yale and Harvard Univs.; Nat. Research Fellow 1931-33, Instructor in Maths., Harvard Univ. 1933-35, Asst. Prof. 1935-40, Assoc. Prof. 1940-46, Prof. 1946-52, Prof. Inst. for

Advanced Study 1952-; Research Mathematician, Nat. Defense Research Cttee. 1943-45; mem. Nat. Acad. of Sciences, American Philosophical Society; Hon. S.D. *Address:* Institute for Advanced Study, Princeton, N.J. 08540, U.S.A.

WHITNEY, John Hay; American diplomatist and newspaper publisher; b. 17 Aug. 1904, Ellsworth, Maine; s. of Payne and Helen (Hay) Whitney; m. 2nd Betsey Cushing Roosevelt 1942; two d.; ed. Groton School, Oxford Univ., and Yale Univ.; Sr. partner, J. H. Whitney & Co., New York; Chair. Whitney Communications Corp., New York; fmr. Chair. Bd. of Freeport Sulphur Co.; Chair. John Hay Whitney Foundation; served U.S.A.F. in World War II; fmr. special adviser on public affairs, Dept. of State; mem. Board of Govs. New York Hospital; Fellow, Yale Corpn. 1955-70, Senior Fellow 1970-73; Trustee, Museum of Modern Art; Amb. to U.K. 1957-61; Publr. and Editor-in-Chief New York Herald Tribune, New York 1961-67; Pres. and Publr. New York Herald Tribune, European Edition 1961-67; Chair. International Herald Tribune, Paris 1967-; mem. Nat. English Speaking Union of U.S.A.; Graduate mem. Business Council; Vice-Pres. and Trustee Nat. Gallery of Art; First American recipient Benjamin Franklin Award of R.S.A. 1963; mem. Corpn. for Public Broadcasting 1970-72; Hon. LL.D. (Columbia, Colgate Univ., Brown Univ., Exeter Univ., Colby Coll.); Hon. L.H.D. (Kenyon Coll.); Hon. M.A. (Yale Univ.). *Address:* 110 West 51st Street, New York, N.Y. 10020, U.S.A.

WHITTINGHAM, Air Marshal Sir Harold Edward, K.C.B., K.B.E., M.B., CH.B., F.R.C.P. (LOND.), F.R.C.P. (EDIN.), F.R.F.P.S. (GLASGOW), D.P.H., D.T.M. AND H., K.ST.J.; British pathologist and tropical diseases and aviation medicine specialist; b. 3 Oct. 1887, Portsmouth; s. of the late Rear-Adm. William Whittingham, C.B., and Elizabeth Annie Crowley; m. 1st Agnes Seright 1912 (died 1966), one s. one d.; m. 2nd Rita White 1966; ed. Christ's Hospital, Greenock Acad., and Glasgow Univ.; Pathologist and Asst. Dir. of Research, Royal Cancer Hosp. Glasgow 1910-14; Scottish Nat. Red Cross 1914-15; served R.A.M.C. India and Mesopotamia 1916-17; Pathologist R.A.F. 1918-24, Dir. of Pathology 1925-30; Lecturer in Biochem. London School of Hygiene and Tropical Medicine 1926-30; Consultant in Hygiene, Pathology and Tropical Medicine R.A.F. 1930-39; C.O. R.A.F. Central Medical Establishment 1934-40; Dir. of Hygiene Air Ministry and Chief Exec. Officer Flying Personnel Research Cttee. 1939-41; promoted Air Marshal 1941; Dir.-Gen. R.A.F. Medical Services 1941-46; Medical Adviser British Red Cross Society 1946-48; Dir. Medical Services BOAC 1948-56; Chair. Med. Cttee., Int. Air Transport Assen. 1950-57; Lecturer, Aviation Medicine, Royal Inst. Public Health and Hygiene 1950-73; Medical Adviser Commonwealth Devt. Corpn. 1956-66, Medical Consultant 1966-77; Chair. Flying Personnel Research Cttee. 1949-67; Hon. Civil Consultant in aviation medicine to the R.A.F. 1967-; Consultant in aviation medicine to British Airways (fmrly. to BEA) 1957-; mem. WHO Expert Cttee. on Sanitation of Int. Airports, advisory panels on Int. Quarantine, Environmental Sanitation 1953-74; mem. Int. Acad. of Astronautics; Hon. Physician to the King 1938-46; Hon. mem. Assocs. of Clinical Pathologists, Mil. Surgeons, U.S.A., Soc. of Med. Consultants to Armed Forces, U.S.A.; Hon. F.R.C.S. (Edinburgh) and Hon. F.R.S.M. (London); Hon. Fellow, Aero-Medical Assen., Hon. LL.D. (Glasgow); decorations include Knight Grand Cross Order of St. Olav (Norway), Commdr. U.S. Legion of Merit, North Persian Memorial Medal, Cross and Star of Order of Polonia Restituta; Chadwick Gold Medal and Prize 1925; John Jeffries Award, Inst. of Aero Sciences, U.S.A. 1944; Stewart Memorial Award 1970. *Leisure interests:* sketching, photography, motoring. *Address:* 26 Marlborough Gardens, Lovelace Road, Surbiton, Surrey, England. *Telephone:* 01-399 8648.

WHITTLE, Eric Yvon, M.A.; British banker; b. 9 Dec. 1925, London; s. of the late Horace Edwin and Winifred Edith Whittle; m. Magali Ritter 1955; one s. one d.; ed. Wyggeston Grammar School, Leicester, Christ Church, Oxford; Dir., Bank of London and South America Ltd. 1968; Dir. Lloyds Bank Int. 1974, Chief Exec. 1978-. *Leisure interest:* walking. *Address:* Lloyds Bank International Ltd., 40-66 Queen Victoria Street, London, EC4P 4EL; 42 Addison Avenue, London, W.11, England (Home). *Telephone:* 01-248 9822 (Office); 01-603 3557 (Home).

WHITTLE, Air Commodore Sir Frank, K.B.E., C.B., M.A., F.R.S., F.ENG., R.A.F. (retd.); British aeronautical expert; b. 1 June 1907, Coventry; s. of Moses and Sarah Alice Whittle; m. 1st Dorothy Lee 1930 (divorced 1976), two s.; m. 2nd Hazel Ardyce Hall (née Steenberg) 1976; ed. Leamington Coll., Royal Air Force Coll., Cranwell, and Cambridge Univ.; posted to 111 Fighter Squadron as Pilot Officer 1928, attended Flying Instructors' Course 1929; Flying Instructor at No. 2 Flying Training School, Digby 1930; Test Pilot, Marine Aircraft Experimental Establishment, Felixstowe 1931-32; attended Officers' School of Eng. at Henlow 1932-34; Cambridge Univ. 1934-37; posted to Special Duty List to continue work on Whittle jet-propulsion gas turbine 1937-46; Technical Adviser on Engine Design and Production to the Controller of Supplies (Air), Ministry of Supply 1946-48; retd. R.A.F. 1948; Technical Adviser to BOAC 1948-52; consultant to Power Jets (Research and Devt.) Ltd 1950-53; Bataafsche Petroleum Maatschappij, The Hague 1953-57; Technical Adviser on Devt. of Whittle Turb-Drill by Bristol Siddeley Engines 1961-66 and Rolls-Royce 1966-70; Navair Research Prof., U.S. Naval Acad. 1977-78, Research Prof. 1978-; mem. Livery, Guild of Air Pilots and Air Navigators; Hon. mem. Eng. Inst. of Canada, Société Royale Belge des Ingénieurs; Hon. Foreign mem. American Acad. of Arts and Sciences; Founder Fellow, Fellowship of Eng. 1976; Hon. Fellow, Aeronautical Soc. of India, Soc. of Experimental Test Pilots (U.S.A.) 1966, American Inst. Aeronautics and Astronautics 1968, Peterhouse, Cambridge; Hon. F.I.Mech.E.; Hon. F.R.Ae.S.; Gold Medal (Royal Aeronautical Soc.); Hon. D.Sc. (Oxford, Manchester, Bath, Warwick, Leicester, Exeter), Hon. Sc.D. (Cambridge), Hon. LL.D. (Edinburgh), Hon. D.Tech. (Technical Univ. of Norway); James Alfred Ewing Medal; Daniel Guggenheim Medal 1946; Kelvin Gold Medal 1947; Melchett Medal 1949; Rumford Medal of Royal Soc. 1950; Gold Medal of Fed. Aéronautique Internationale 1951; Churchill Medal of Soc. of Engineers; Albert Medal of Royal Soc. of Arts 1952; Franklin Medal, U.S.A. 1956; John Scott Award, City of Philadelphia 1957; U.S. Legion of Merit; first recipient Goddard Award of American Inst. of Aeronautics and Astronautics 1965; Award of Merit City of Coventry 1966; Int. Communications Prize (Genoa) 1966; Int. Hall of Fame, San Diego 1968; Tony Jannus Award 1969; James Watt Int. Gold Medal 1977; Dept. of Transportation (F.A.A.) Award for Extraordinary Service 1978; R. Tom Sawyer Award (A.S.M.E.) 1978; Hon. Freeman Royal Leamington Spa. *Publications:* The Early History of the Whittle Jet-Propulsion Gas Turbine (First James Clayton Lecture) 1945, Jet: The Story of a Pioneer. *Leisure interests:* walking, tennis, reading. *Address:* c/o Rickover Hall, U.S. Naval Academy, Annapolis, Md. 21402, U.S.A.

WHYTE, William Hollingsworth; American writer; b. 1 Oct. 1917, West Chester, Pa.; s. of William Hollingsworth Whyte and Louise Price; m. Jenny Bell Bechtel 1964; one d.; ed. Princeton Univ.; worked for Vick Chemical Co. 1939-41; served with U.S. Marine Corps 1941-45; joined Fortune Magazine 1946, Asst. Man. Editor 1951-58; Dir. Street Life Project 1970-, Municipal Art Soc. of Landmarks Conservancy; Vice-Chair. Conservation Foundation; mem. American Conservation Assen., N.Y. State Environmental Board; LL.D. h.c., Grinnell Coll.; Benjamin Franklin Award 1955. *Publications:* Is Anybody Listening 1952, The Organisation Man 1956, The Exploding Metropolis 1959, Cluster Development 1964, The Last Landscape 1968. *Leisure interests:* conservation, urban planning, photography. *Address:* 175 East 94th Street, New York, N.Y. 10028, U.S.A. *Telephone:* 369-0014.

WIARDA, Gérard J.; Netherlands judge; b. 4 Sept. 1906, Amsterdam; s. of Jan Wiarda and Louise Lucks; m. Alexandra Moltzer 1932; one s. three d.; ed. in Amsterdam; Advocate, Rotterdam; Deputy Judge and Judge, Arrondissement Court, Amsterdam; fmr. Prof. of Admin. Law, Univ. of Utrecht; Judge, Netherlands Supreme Court 1950, Vice-Pres. 1968-72, Pres. 1972-76; Vice-Pres. European Court of Human Rights 1967-; mem. Royal Netherlands Acad. of Sciences; fmr. Pres. Benelux Court of Justice. *Leisure interests:* history, the arts. *Address:* van der Houvenstraat, The Hague, Netherlands. *Telephone:* 241967.

WIBAUX, Fernand, DR. EN DROIT; French diplomatist; b. 21 July 1921, Paris; s. of René Wibaux and Marcelle Caudrelier; m. 1st Jaqueline Piezel (deceased); m. 2nd Jeanine Petrequin; one s. two d.; ed. Lycée de Lille and Faculté de Droit, Paris; Civil Service admin., Algeria 1944; Attaché to Sec. of State for Overseas Territories 1949, to Minister of Merchant Marine 1950-51, to High Commr., French W. Africa 1952-55; Chief Asst. to Ministers for Overseas Territories 1956-58; Dir.-Gen. Niger Office 1956; Consul-Gen. Bamako 1960-61; Amb. to Mali 1961-64; Dir. Office de Coopération et d'Accueil Universitaire 1964-; Amb. to Chad 1968-74; Dir. of Cultural and Social Affairs, Ministry of Co-operation 1974-77; Amb. to Senegal 1977-; Croix de guerre; Officier de la Légion d'honneur. *Address:* French Embassy, B.P. 4035, Dakar, Senegal.

WIBERG, Kenneth Berle, PH.D.; American professor of chemistry; b. 22 Sept. 1927, New York; s. of Halfdan Wiberg and Solveig Berle; m. Marguerite Louise Koch 1951; two s. one d.; ed. Mass. Inst. of Technology and Columbia Univ.; Instructor, Univ. of Washington 1950-52, Asst. Prof. 1952-55, Assoc. Prof. 1955-57, Prof. 1958-62; Prof., Yale Univ. 1962-68, Chair. Dept. of Chem. 1968-71, Whitehead Prof. of Chem. 1968-; Visiting Prof., Harvard Univ. 1957-58; A. P. Sloan Foundation Fellow 1958-62, J. S. Guggenheim

Fellow 1961-62; mem. Nat. Acad. of Sciences, American Acad. of Arts and Science; California Section Award of American Chemical Soc. 1962, J. F. Norris Award of American Chemical Soc. 1973. *Publications:* Laboratory Technique in Organic Chemistry 1960, Interpretation of NMR Spectra 1964, Physical Organic Chemistry 1964, Oxidation in Organic Chemistry (Editor) 1965, Computer Programming for Chemists 1966, Sigma Molecular Orbital Theory (with Sinanoglu) 1970; approx. 150 articles in scientific journals. *Address:* Department of Chemistry, Yale University, 225 Prospect Street, New Haven, Conn. 06520, U.S.A. *Telephone:* 203-436-2443.

WIBISONO, Jusuf, LL.D.; Indonesian politician; b. 28 Feb. 1909, Mageland, Cen. Java; s. of Kunto Kismo Bahuatmodjo; m. Sumijati Sontodihardjo 1936; three s. one d.; ed. Faculty of Law, Jakarta; Vice-Chair. Working Cttee., Cen. Nat. Cttee. 1945-46; Vice-Minister of Econ. Affairs 1946-47; mem. of Parl. 1950-56, Minister of Finance 1951-52 and 1956-57; mem. Exec. Council of Masjumi Party 1948-59; Pres. Indonesian Islamic Trade Union S.B.I.I. (since 1961 GASBIINDO) 1954-66, Hon. Pres. 1966-67; mem. Muhammadijah Exec. Board 1956-59, Provisional People's Congress 1960-68; mem. of Parl. 1960-68; mem. Exec. Board Nat. Front 1960-66; Pres. Indon-Jap. Joint Bank, PERDANIA Bank Ltd. 1958-; Pres. Council of Advisers, Islamic Commercial Assen. 1967-73; Pres. Tjokroaminoto Univ. 1968-73. *Publications:* Marriage, Polygamy and Divorce in Islam 1937, Excursion behind the Iron Curtain 1952. *Leisure interests:* photography, reading books on economics, politics, Islam and history. *Address:* Jl. Proklamasi 40 (Pegangsaan Timur 40), Jakarta, Indonesia. *Telephone:* 882042.

WICHTERLE, Otto, D.TECH., D.SC.; Czechoslovak chemist; b. 27 Oct. 1913, Prostějov; s. of Karel Wichterle and Slávka Podivínská; m. Ludmila Zahradníková 1938; two s.; ed. Czech Technical Univ., Prague, and Medical Faculty, Charles Univ., Prague; Asst. Lecturer, Inst. of Experimental Organic Chem., Czech Technical Univ., Prague 1935-39; Head of Polymer Dept., Bata-Zlín 1940-42, 1944-45; Gestapo prisoner 1942-43; Asst. Prof. Faculty of Chem., Czech Tech. Univ., Prague 1945, later Prof.; Prof. Coll. Macromolecular Chem., Technical Univ., Prague 1949-69; Academician, Czechoslovak Acad. of Sciences 1955-76; Head of Dept. of Macromolecular Chem., Inst. of Chem. 1955-59; Inst. of Macromolecular Chem., Dir. 1959-70, Sr. Scientific Worker 1970-; Chair. Comm. for Macromolecular Chem.; mem. Bureau Int. Union of Pure and Applied Chem. 1962-; Deputy Chair. Scientific Collegium for Chem. and Chemical Technology, Czechoslovak Acad. of Sciences, Prague 1963; mem. Exec. Cttee. Int. Union of Pure and Applied Chem. 1967; Deputy to Czech Nat. Council 1968-69; Deputy to House of Nations, Fed. Assembly 1969; Pres. Union of Czech Scientific Workers 1969-70; State Prize 1954; Order of Labour 1966; Klement Gottwald State Prize 1967; inventor of soft contact lenses 1961. *Publications:* Numerous papers and Foundations of Preparative Organic Chemistry (with others) 1951, Organic Chemistry 1952, 1955, Inorganic Chemistry (with Petrů) 1953, 1956, Macromolecular Chemistry 1957. *Leisure interests:* mechanical and optical workshop, gardening. *Address:* Institute of Macromolecular Chemistry, 162 06 Prague 6, Na Petřinách 1888 (Office); U. Andelky 27, 162 00 Prague 6, Czechoslovakia (Home). *Telephone:* Prague 36-0340 (Office); Prague 355070 (Home).

WICKBERG, Erik E.; Swedish Salvation Army officer; b. 6 July 1904; m. Elvor Lindberg 1977, two s. two d.; ed. Uppsala, Berlin, Stockholm, The Salvation Army Int. Training Coll., and Staff Coll.; Salvation Army 1925-; appointments in Scotland, Berlin, London; Divisional Commdr. Uppsala 1946-48; Chief. Sec. Switzerland 1948-53, Sweden 1953-57; Territorial Commdr., Germany 1957-61; Chief of Staff, Int. Headquarters London 1961-69; General of The Salvation Army 1969-74; Commdr. Order of Vasa 1970, Order of Moo Koong-Wha (Korea) 1970, Grand Cross of Merit (Fed. Rep. of Germany). *Publications:* In Darkest England Now 1974, Inkallad (memoirs) 1978 and articles in Salvation Army periodicals and year book. *Leisure interests:* reading, fishing, chess. *Address:* International Headquarters of the Salvation Army, 101 Queen Victoria Street, London, E.C.4, England. *Telephone:* 01-236 5222.

WICKMAN, Krister, LL.B., PH.D.; Swedish bank governor and former politician; b. 13 April 1924, Stockholm; s. of Johannes Wickman; at Nat. Swedish Inst. of Econ. Research 1951; Under-Sec. of State at Ministry of Finance 1959; mem. Parl. 1967-73; mem. Cabinet and Minister without Portfolio for Econ. Policy 1967; Minister for Industry 1969-71, for Foreign Affairs 1971-73; Sec. of Parl. Standing Cttee. on Banking and Currency 1953-58; Vice-Chair. of Board LKAB Mining Co. 1962-67; Chair. of Board Swedish Film Inst. 1963-67; Chair. of Board and mem. Board of Govs. Bank of Sweden 1964-67, Gov. 1973-76; Chair. Econ. Policy Council 1968-71; Dir. BIS 1973-, SAS 1974-; Social Democrat. *Address:* Haga Trädgård, 17153 Solna, Sweden. *Telephone:* 08/828818.

WIDDRINGTON, Peter Nigel Tinling, M.B.A.; Canadian business executive; b. 2 June 1930, Toronto; s. of Gerrard Widdrington and Margery (MacDonald) Widdrington; m. Betty Ann Lawrence 1956; two d.; ed. Pickering Coll., Newmarket, Ont., Queen's Univ. and Harvard Business School; Asst. Regional Man. Labatt's Ontario Breweries Ltd. 1957, Regional Man. 1958; Gen. Man. Kiewel and Pelissiers, Winnipeg 1961; Gen. Man. Labatt's Manitoba Breweries Ltd. 1962, Labatt's B.C. Breweries Ltd. 1965; Pres. Lucky Breweries Inc., San Francisco 1968; Vice-Pres. Corporate Devt., John Labatt Ltd. 1971, Senior Vice-Pres. 1973, Pres. and Chief Exec. Officer 1973-; Dir. Canada Trust 1974-, Brascan -1977, BP Canada -1977. *Address:* John Labatt Ltd., 451 Rideout Street North, London, Ont., N6A 2P6, Canada. *Telephone:* 519-673-5112.

WIDERBERG, Bo; Swedish film director; b. 8 June 1930; had twelve different jobs before military service; fmr. literary critic; *Films:* Barnvagnen (The Pram) 1962, Kvarteret Korpne (Raven's End) 1963, Kärlek 65 (Love 65) 1965, Elvira Madigan 1967, Adalen '31 1969 (Award for Best Foreign Film, U.S. Film Critics Guild), The Ballad of Joe Hill 1971, Fimpen (Stubby) 1974, Man on the Roof 1977. *Publications:* Kyssas (short story) 1952, Erotikon (novel) 1957, En stuhl, Madame (autobiographical short story) 1961, Den gröna draken (novel), Visionen i svensk film (essays). *Address:* c/o Svenska Filminstitutet, Kungsgatan 48, Stockholm C, Sweden.

WIDERSTRÖM, Ulf E.; Swedish business executive; b. 8 June 1914; ed. Royal Technical Highschool, Stockholm. Engineer, AB Vattenbyggnadsbyrån 1937-40 and Bridge Section, The Nat. Swedish Road Admin. 1940-42; joined AB Skånska Cementgjuteriet 1942, Dir. and Head of the Malmö Regional Admin. 1959-65, Sr. Vice-Pres. 1963-65, Pres. 1965-77, Hon. Chair. 1977-; board mem. of Svenska Handelsbanken, Savoy Hotel, Skånska Cementgjuteriet and of 30 cos. in the Skanska Group, including Sepco (Paris), Skanska Baugesellschaft (Hamburg), C. G. Jensen A/S (Denmark), Ohlsson & Skarne AB, SENTAB, The Fed. of Swedish Contractors of Building and Public Works (Chair.), The Int. Federation of European Contractors of Building and Public Works (London), Gunnebo Bruk. *Address:* c/o AB Skånska Cementgjuteriet, Fack S-103 40 Stockholm 40, Sweden. *Telephone:* 24 75 00.

WIDGERY, Baron (Life Peer), cr. 1971, of South Molton in the County of Devon; **John Passmore Widgery,** P.C., Kt., O.B.E., T.D.; British judge; b. 24 July 1911; s. of Samuel Widgery; m. Ann Kermode 1948; ed. Queen's Coll., Taunton; Solicitor 1933; Royal Artillery 1939-45; called to Bar, Lincoln's Inn 1946; practised South-Eastern Circuit; Q.C. 1958; Recorder of Hastings 1959-61; Judge of High Court of Justice (Queen's Bench Div.) 1961-68; Lord Justice of Appeal 1968-71; Lord Chief Justice 1971-; Vice-Chair. Home Office Advisory Council on Penal System 1966-70; Hon. LL.D. (Exeter) 1971, (Leeds) 1976, (Columbia) 1976. *Address:* Royal Courts of Justice, Strand, London, W.C.2. England.

WIDMARK, Richard, B.A.; American actor; b. 26 Dec. 1914, Sunrise, Minn. s. of Carl H. and Ethel (née Barr) Widmark; m. Ora Jane Hazelwood 1942; one d.; ed. Lake Forest Coll.; Drama instructor at Lake Forest Coll. 1936-38; radio actor for New York networks 1938-47; Broadway appearances include Kiss and Tell 1943, Get Away Old Man 1943, Trio 1944, Kiss Them For Me 1944, Dunnigan's Daughter 1945, Dream Girl 1946; films include Kiss of Death 1947, Road House 1948, Yellow Sky 1949, Slattery's Hurricane 1949, Night and the City 1950, No Way Out 1950, Halls of Montezuma 1950, Red Skies of Montana 1950, Full House 1952, Destination Gobi 1953, Hell and High Water 1954, Garden of Evil 1954, Broken Lance 1954, Backlash 1956, St. Joan 1957, Tunnel of Love 1958, The Alamo 1960, Secret Ways 1961, Judgement at Nuremberg 1961, How the West Was Won 1963, Madigan 1969, The Moonshine War 1970, When Legends Die 1972, Murder on the Orient Express 1974, The Sellout 1976, The Domino Principle 1976, Roller Coaster 1976, The Swarm 1977, Coma 1978; television includes Vanished 1970, and the series Madigan 1972. *Address:* c/o Oden Productions, 9777 Wilshire Boulevard, Beverly Hills, Calif. 90212, U.S.A.

WIECZOREK, Janusz, LL.M.; Polish politician; b. 15 Oct. 1910, Brzóza, near Warsaw; s. of Józef and Janina (Mniewska) Wieczorek; m. Ciesiołkiewicz Alicja 1945; one s. one d.; ed. Warsaw Univ. Dept. of Law. Head of Dept. in Ministry of Social Welfare -1939; mem. resistance movement in Murnau prisoner-of-war camp 1939-45; Admin. Officer, Ministry of Labour and Social Welfare 1945-48; Deputy Head Presidium of Council of Ministers 1948-50; Vice-Chair. State Board of Regular Posts 1951-56; Deputy Head of Office of Council of Ministers, Vice-Minister 1956-65, Head of Office, Minister 1965-; mem. Polish Socialist Party 1945-48, Polish United Workers' Party (PZPR) 1948-; Chair. Council for Preservation of Monuments to Resistance and Martyrdom 1960-, Cttee. for Construction of Children's Health Centre 1968-; Vice-Chair. Cttee. of

Nat. Health Protection Fund, Polish Cttee. co-operating with UNICEF, Citizens Cttee. for Reconstruction of Royal Castle, Warsaw, Cen. Council of Scouts' Friends; mem. or hon. mem. numerous orgs.; Order of Banner of Labour, 2nd Class 1959, 1st Class 1964, Cross Virtuti Militari, 5th Class 1964, Commdr. Cross with Star of Polonia Restituta, Silver Cross of Merit and others. *Address:* Urząd Rady Ministrów, Al. Ujazdowskie 1/3, 00-583 Warsaw, Poland. *Telephone:* 28-45-04.

WIECZOROWSKI, Robert E.; American international finance official; b. 1 July 1927; m.; two c.; ed. Yale and Loyola Univs.; Exec. Sec., Chamber of Commerce, Norwich, Conn. 1951-52; served in Korea 1952-54; joined retail sales dept., A. G. Becker & Co., Inc., Chicago 1955, Vice-Pres. 1965-69; Dir. Mid-America Devt. Assn. 1966-67; Exec. Dir. for U.S.A., IBRD, IFC and IDA 1969-73; current business activity in private investments; Pres. Chicago Council on Foreign Relations 1964-66; mem. Chicago Bar Assn.; Dir. USA-UNA of Chicago 1968-69. *Address:* 3501 Springland Lane, N.W., Washington, D.C. 20008, U.S.A.

WIEN, Lawrence A., A.B., LL.B.; American lawyer; b. 30 May 1905; m. Mae Levy 1929; two d.; ed. Columbia Univ.; admitted to New York Bar 1927; Senior Partner Wien, Lane and Malkin and predecessors 1951-; Trustee Citizens Budget Comm., New York 1956-, Brandeis Univ. 1957-, (Chair. 1966-70), Consolidated Edison Co. of New York Inc. 1963-, Educational Broadcasting Corpn., Inst. of Int. Education; Dir. Borden Inc. 1965-; Chair. Board of Trustees Fed. of Jewish Philanthropies (Pres. 1960-63); Vice-Chair. Board of Trustees Lincoln Center for the Performing Arts Inc., New York; Creator Wien Int. Scholarship Program at Brandeis Univ. 1957, Nat. Scholarship Program at Columbia Univ. School of Law 1959; mem. Board of Trustees, Columbia Univ. 1964-70, Bar Asscns. of New York City, N.Y. State, American Bar Assn., New York County Lawyers' Assn., Nat. Panel of American Arbitration Assn. *Address:* 60 East 42nd Street, New York, N.Y. 10017, U.S.A.

WIERINGA, Robert T.; American business executive; b. 1924; Vice-Pres. Gillette Co., Pres. Toni and Paper-Mate subsidiaries 1964-68; Senior Vice-Pres. of Consumer Products Group, Warner-Lambert Co. 1968, Dir., mem. Exec. Cttee., Exec. Vice-Pres. 1972, Pres., Chief Exec. Officer Parke, Davis & Co. 1970-; Pres., Chief Operating Officer Warner-Lambert Co. 1973-75, Vice-Chair. and Chief Admin. Officer 1975-77. *Address:* Warner-Lambert Co., 201 Tabor Road, Morris Plains, N.J. 07950, U.S.A.

WIERZBICKI, Eugeniusz; Polish architect; b. 31 March 1909, Chanżenkowo; s. of Ryszard and Maria Wierzbicki; m. Zofia Szemińska 1945; mem. Polish Assn. of Architects (SARP) 1936-, Pres. Warsaw Branch 1951-53, of Cen. Board 1953-55, now mem. Council and Collective Judge; Senior Designer, Warsaw Design Office of Gen. Architecture; First Prizes in collaboration with W. Kłyszewski (q.v.) and J. Mokrzyński (q.v.) 1940; State Prize, 3rd Class 1951, 2nd Class 1955, 1st Class 1974, Knight's Cross, Order of Polonia Restituta 1957, Gold Award of Rebuilding of Warsaw 1958, Hon. Prize of SARP 1968, of Katowice Branch of SARP 1972, Order of Banner of Labour, 2nd Class 1969, Prize of Minister of Construction, 1st Class 1973. *Buildings include:* Polish United Workers Party Building, Warsaw; hotels and museum in Białystok; Sailors' Home, Szczecin; Museum of Modern Art, Skopje, Yugoslavia; Railway Station, Katowice (all in collaboration with W. Kłyszewski and J. Mokrzyński). *Publications:* numerous articles in newspapers. *Address:* Al. Wyzwolenia 2 m. 54, 00-570 Warsaw, Poland.

WIESE UND KAISERSWALDAU, Benno von, DR. PHIL.; German university professor; b. 25 Sept. 1903, Frankfurt am Main; s. of the late Leopold von Wiese und Kaiserswaldau; m. Ilse von Gavel 1931; one s. one d.; ed. Univs. of Leipzig, Vienna, Heidelberg; Lecturer in German Literature Univ. Bonn 1929; Prof. Univ. Erlangen 1932-43; Prof. Univ. Münster 1943-57; Visiting Prof. Univ. of Indiana (Bloomington) 1954-55; Princeton Univ. 1955-56; Prof. Univ. Bonn 1957-71; Visiting Prof., Univ. of Minnesota and Univ. of California 1967-68; mem. Düsseldorfer Akademie für Forschung des Landes Nordrhein-Westfalen; Hon. Dr. Hum.Litt. (Univ. of Chicago). *Publications:* Die deutsche Tragödie von Lessing bis Hebbel 1948, Friedrich Schiller 1959, 1963, Die deutsche Novelle von Goethe bis Kafka Vol. I 1956, Vol. II 1962; Eduard Mörike 1950, Zwischen Utopie und Wirklichkeit 1963, Von Lessing bis Grabbe 1968, Karl Immermann 1969, Signaturen. Zu Heinrich Heine und seinem Werk 1976, Perspektiven I Studien zur deutschen Literatur und Literaturwissenschaft 1978, Perspektiven II Dichterporträte 1979. *Address:* 53 Bonn-Ippendorf, Auf dem Heidgen 33, Federal Republic of Germany. *Telephone:* 282794.

WIESENTHAL, Simon; Austrian war crimes investigator and former architect; b. 31 Dec. 1908, Buczacz, Poland (now Buchach, U.S.S.R.); s. of Hans Wiesenthal; m. Cyla Müller 1936; one d.; ed. architectural studies in Prague and Lvov (Lemberg); practised architecture until World War II; prisoner in Nazi concentration camps 1941-43, 1944-45; active since the war in searching for Nazi criminals, assisting Jewish victims of Nazi regime and in Jewish civic affairs; Head of Jewish Historical Documentation Centre, Linz, Austria 1947-54; Dir. Jewish Documentation Centre, Vienna 1961-; Chair. Assn. of Jews Persecuted by the Nazi Regime; Diploma of Honour, Int. Fed. of Resistance Movements, Vienna; Dr. h.c.; Medal of Freedom (Netherlands). *Publications:* KZ Mauthausen 1946, Head Mufti, Agent of the Axis 1947, I Hunted Eichmann 1961, Limitation 1964, The Murderers Among Us 1967, Sunflower 1969, Sails of Hope 1973, The Case of Krystyna Jaworska 1975. *Leisure interest:* philately. *Address:* Jewish Documentation Centre, Salztorgasse 6, 1010 Vienna; Mestrozigasse 5, 1190 Vienna, Austria (Home). *Telephone:* 63 91 31 and 63 98 05 (Office); 47 51 85 (Home).

WIESNER, Jerome Bert, PH.D.; American professor and communications engineer; b. 30 May 1915; m. Laya Wainger 1940; three s. one d.; ed. Univ. of Michigan; Chief Engineer Library of Congress, Washington 1940-42; mem. staff M.I.T. Radiation Lab., Cambridge, Mass. 1942-45; mem. staff Univ. of California, Los Alamos Lab. 1945-46; Prof. of Electrical Eng., Assoc. Dir. and Dir. Research Lab. of Electronics, Chair. Dept. of Electrical Eng., M.I.T. 1948-61, Dean of Science 1964-66, Provost 1966-71, Pres. 1971-; Special Asst. to Pres. for Science and Tech., Dir. Office of Science and Tech., White House 1961-64; mem. Pres.'s Science Advisory Cttee. 1958-68, Inst. of Radio Engineers, Acoustical Soc. of America, Fed. of American Scientists, American Soc. for the Advancement of Science, Nat. Acad. of Sciences, Nat. Acad. of Eng., American Acad. of Arts and Science, American Assn. of Univ. Professors, Geophysical Union, American Soc. Eng. Educ., American Philosophical Soc. *Publications:* Where Science and Politics Meet 1964, ABM, An Evaluation of the Decision to Deploy an Antiballistic Missile System 1969. *Leisure interests:* politics, writing, sailing, skiing. *Address:* Office of the President, Massachusetts Institute of Technology, Cambridge, Mass. 02139; 61 Shattuck Road, Watertown, Mass. 02172, U.S.A. (Home). *Telephone:* 617-253-4665 (Office).

WIESNER, Karel František, R.N.DR., F.R.S.C., F.R.S.; Canadian chemist; b. 25 Nov. 1919, Prague, Czechoslovakia; s. of Karel František Wiesner and Eugenie Sterova; m. Blanka Pevná 1942; one s.; ed. Real-Gymnasium, Chrudim and Charles Univ., Prague, Czechoslovakia; asst. to Prof. J. Heyrovský, Inst. for Physical Chemistry, Charles Univ., Prague 1945-46; Prof. of Organic Chemistry, Univ. of New Brunswick, Canada 1948-62, Research Prof. Natural Products Research Center, Univ. of N.B. 1964-; Dir. of Chemistry, Ayerst Laboratories, Montreal 1962-64; Post-doctoral Fellow, Zurich, Switzerland 1946-48; Hon. D.Sc. (Univs. of New Brunswick, Western Ontario, Montreal); C.I.C. Palladium Medal 1963, Officer Order of Canada 1975. *Publications:* About 163 scientific papers on electrochemistry, structure determination, synthesis, reaction mechanisms and the kinetics of fast reactions determined from rate-controlled polarographic currents. *Address:* Natural Products Research Center, University of New Brunswick, Fredericton, New Brunswick; 814 Burden Street, Fredericton, New Brunswick, Canada (Home). *Telephone:* 506-453-4780 (Office); 506-454-4007 (Home).

WIETHÜCHTER, Horst, D.ECON.; German tobacco industry executive; b. 5 July 1928, Bielefeld; s. of Heinrich and Ida (née Bottemöller) Wiethüchter; m. Ilse Kochsiek 1957; one s. one d.; ed. Bonn and Cologne Univs.; Head of Central Admin. Rheinische Schmirgelwerke GmbH and Nicco-Werke GmbH 1954-63; Vice-Pres., Finance, Dr. Kurt Herberts & Co. GmbH 1963-71; mem. for Finance, Board of Dirs. of Reemtsma Cigarettenfabriken GmbH 1971-, Spokesman of the Board 1975-, Chair. Nov. 1976-; Chair. Supervisory Board Deutsche Brau GmbH; Deputy Chair. Supervisory Board Henninger Bräu KGaA; mem. Supervisory Board, Brau AG, Nuremberg. *Address:* Kreetkamp 13, 2000 Hamburg 52, Federal Republic of Germany. *Telephone:* 82 36 16.

WIGG, Baron (Life Peer), cr. 1967, of the Borough of Dudley; **George Edward Cecil Wigg,** P.C.; British politician; b. 28 Nov. 1900; ed. Fairfields Council Schools and Queen Mary's School, Basingstoke, Hants. Army Service 1919-37, 1940-46; M.P. 1945-67; fmr. Parl. Private Sec. to Rt. Hon. E. Shinwell; mem. Racecourse Betting Control Board 1958-61, Totalisator Board 1961-64; Paymaster-General 1964-67; Chair. Horse Race Betting Levy Board 1967-72; Pres. Betting Office Licensees' Assn. 1973-; Labour. *Publication:* George Wigg 1972. *Address:* 117 Newcastle Road, Trent Vale, Stoke-on-Trent, Staffs., England.

WIGGINS, Archibald Lee Manning, B.A.; American retired railroad executive, banker and newspaper publisher; b. 9 April

1891, Durham, N.C.; s. of the late Archie Lee Wiggins and Margaret London (Council) Wiggins; m. Pauline Lawton 1915; two s. two d.; ed. Univ. of N. Carolina; fmr. banker; Lecturer Graduate School of Banking, Rutgers Univ. 1944-57; Under-Sec. U.S. Treasury 1947-48; Chair. of Board Bank of Hartsville 1948-63, Atlantic Coast Line, Louisville and Nashville, and Clinchfield Railroad Cos. 1948-61; Dir. American Telephone and Telegraph Co. 1950-63; Chair. of Board Alico Land Devt. Corpn. 1960-63; now Chair. of Board Pauline and Lee Wiggins Foundation Inc. and Hartsville Publishing Co.; Trustee, North Greenville Coll. 1971-76, S.C. Foundation of Independent Colls. Inc.; Pres. S.C. Bankers' Assn. 1931-32, American Bankers' Assn. 1943-44, Trust Co. of S.C. 1941-69; mem. Advisory Council Fed. Reserve Board 1946; Dir. American Cancer Soc. 1946-49; Treas. American Nat. Red Cross 1947-48; Chair. S.C. State Reorganization Comm. 1948-50; Chair. S.C. Governor's Tax Advisory Cttee. 1953-54, Fiscal Survey Comm. of S.C. 1955-58, Chair. S.C. Comm. on Higher Educ. 1962-63; Hon. LL.D. (Univs. of North Carolina, South Carolina, Duke Univ., Campbell Coll.). *Address:* 306 E. Home Avenue, Hartsville, S.C. 29550, U.S.A. *Telephone:* 803-332-3791.

WIGGINS, James Russell; American newspaperman; b. 4 Dec. 1903; ed. Luverne (Minn.) High School, and USAF Air Intelligence School; with Rock County Star 1922-30; Editorial Writer St. Paul Dispatch and St. Paul Pioneer Press 1930-33, Washington Corresp. 1933-38, Man. Editor 1938-42, 1945-46; U.S. Army Air Force 1942-45; Asst. Publr. New York Times 1946-47; Man. Editor The Washington Post 1947-55, Vice-Pres. 1953-60, Exec. Editor 1955-60, Editor and Exec. Vice-Pres. 1960-68; Perm. Rep. to UN 1968-69; Editor, Publr. Ellsworth American 1969-; Eliza Lovejoy Award 1954, John Zenger Award 1957, Golden Key Award 1960. *Publication:* Freedom or Secrecy 1956. *Address:* Water Street, Ellsworth, Maine 04605, U.S.A.

WIGHTMAN, Arthur Strong, PH.D.; American professor of mathematics and physics; b. 30 March 1922, Rochester, N.Y.; s. of Eugene Pinckney and Edith Stephenson Wightman; m. 1st Anna-Greta Larsson 1945 (died 1976), one d.; m. 2nd Ludmila Popova 1977; ed. Yale Coll. and Princeton Univ.; Instructor in Physics. Yale Univ. 1943-44; U.S. Navy 1944-46; Instructor in Physics, Princeton Univ. 1949, Asst. Prof., Assoc. Prof.; Prof. of Mathematical Physics, Princeton Univ. 1960-; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Royal Society of Arts; Dannie Heinemann Prize in Mathematical Physics 1969; D.Sc. h.c. (ETH, Zürich) 1969. *Publication:* PCT, Spin and Statistics and All That (with R. F. Streater) 1964. *Leisure interests:* art, music, tennis. *Address:* Joseph Henry Laboratories of Physics, Princeton University, Box 708, Princeton, N.J. 08540; 30 The Western Way, Princeton, N.J. 08540, U.S.A. (Home). *Telephone:* 609-452-4392 (Office); 609-921-7779 (Home).

WIGNER, Eugene Paul, DR.ING.; American physicist; b. 17 Nov. 1902, Budapest, Hungary; s. of Antal and Elisabeth Wigner (née Einhorn); m. 1st Amelia Z. Frank 1936 (died 1937); m. 2nd Mary A. Wheeler 1941 (died 1977); one s. one d.; ed. Müegytem, Budapest and Technische Hochschule, Berlin; Lecturer, Technische Hochschule, Berlin 1928; Prof. of Mathematical Physics, Princeton Univ., on part-time basis 1930-36; Prof. of Physics, Univ. of Wisconsin 1936-38; Thomas D. Jones Prof. of Mathematical Physics, Princeton Univ. 1938-71; Visiting Lecturer, Univ. of Mass. 1971; Consulting Prof. Louisiana State Univ. 1972-, also at Technion, Haifa 1973, Rockefeller Univ. 1974, Princeton Univ. 1974, 1976, Univ. of Utrecht 1975, Inst. des Hautes Etudes scientifiques 1977, Univ. of Texas at Austin 1978, mem. of Visiting Cttee., Nat. Bureau of Standards 1947-51, Board of Dirs., Oak Ridge Inst. of Nuclear Studies 1947-50; mem. Gen. Advisory Cttee. to U.S. Atomic Energy Comm. 1952-57, 1959-64; on leave of absence at the Metallurgical Lab., Univ. of Chicago (Plutonium Project) 1942-45; on leave of absence ■ Dir. of Research and Development of the Clinton Labs., Oak Ridge, Tenn. 1946-47, as Lorentz Lecturer, Inst. Lorentz, Leyden, Neths. 1957; mem. American Physical Soc., American Mathematical Soc., American Philosophical Soc., Nat. Acad. Sciences, American Acad. of Arts and Sciences, Franklin Soc. (Franklin Medal 1950), Royal Netherlands Acad., Austrian Acad. of Sciences, American Nuclear Soc. (Dir. 1960-61); foreign mem. Royal Society 1970; corresp. mem. Akad. der Wissenschaften, Göttingen; Hon. mem. Eötvös Lorand Physical Soc. 1977; Vice-Pres. American Physical Society 1955, Pres. 1956; Dir. Int. School of Physics, Enrico Fermi Course 1959, Varenna 1963, Nat. Acad. Sciences Harbour Project 1963; Dir. (on leave of absence) Civil Defense Project, Oak Ridge Nat. Lab. 1964-65; numerous honorary degrees; Medal for Merit 1946; Fermi Award 1958; Atoms for Peace Award 1960, Max Planck Medal of German Physical Soc. 1961, Nobel Prize for Physics 1963, George Washington Award of the American Hungarian Studies Foundation, Semmelweiss Medal of American Hungarian Medical Assn. 1965, U.S. Nat. Medal of Science 1969, Albert Einstein Award 1972. *Publications:* Gruppentheorie und ihre Anwendungen auf die Quantenmechanik der Atomspektren 1931, Nuclear Structure (with L. Eisenbud) 1958, Physical Theory of Neutron Chain Reactors (with A. M. Weinberg) 1958, Project Harbour Summary Report (with R. Park) 1964, Symmetries and Reflections 1967, Who Speaks for Civil Defense (editor) 1968, Survival and the Bomb 1969. *Leisure interest:* wandering. *Address:* Jadwin Hall, Princeton Univ., P.O. Box 708, Princeton, N.J. 08540; 8 Ober Road, Princeton, N.J. 08540, U.S.A. *Telephone:* 609-452-4335.

WIJSENBEEK, Louis Jacob Florus, D.D.L., D.H.A.; Netherlands museum curator; b. 21 April 1912, Rotterdam; s. of Siep S. and Rosa (van den Bergh) Wijsenbeek; m. 1st E. Helene CanterCremers 1937 (divorced 1964), 2nd Eva F. Pöhner 1972; five s. two d.; ed. Gymnasium Erasmianum, Rotterdam and Leiden Univ.; on staff of Ministry of Educ., Arts and Sciences 1939-40; Asst. Keeper Municipal Museum, The Hague 1940-42; Recuperation Officer in Austria 1945-47; Dir. of Delft Museums 1947-51; Dir. Municipal Museum, Bredius Museum and Costume Museum, The Hague 1951-77; Pres. I.C.O.M. Cttee. for Museum Architecture; Vice-Pres. Royal Acad. of Arts, The Hague, Netherlands, Assn. of Museum Dirs., Netherlands Cttee. of I.C.O.M.; Commdr. Order of Mexican Eagle, Hon. M.V.O., Officer, Royal Gurkha Order of Nepal; Officer of Swedish Order of Vasa, Royal Netherlands Order of Orange Nassau, Order of Crown of Belgium, Chevalier de la Légion d'honneur, Knight of the Order of Pius IX, Cmmdr. Royal Order of Pole Star, Sweden, Gold Medal of Merit, 1st Class (Italy), Commdr. Order of Merit (Germany), Commdr. Order of Merit (Italy). *Publications:* Het Tijdperk van de Camera Obscura 1940, Mij spreekt de Blomme een tale 1952, Pablo Picasso 1954, Vraagstukken bij het Bouwen van Musea 1958, Piet Mondriaan 1962 (German edn. 1968, English and Dutch 1969), Delfts Zilver 1962, Complete Edition of the Letters to and from Piet Mondriaan 1978. *Leisure interests:* history of art, music, winter sports, riding. *Address:* 8201 Kleinholzhausen (Obb), Filzenweg; and 18 Wagenbauer Strasse, 8 Munich 80, Federal Republic of Germany.

WIJTING, Gen. Alexander Johannes Wilhelm; Netherlands air force officer; b. 29 June 1925, Magelang, Indonesia; s. of D. W. Wijting and J. F. C. Müsler; m. Margaret E. Lyle-Stewart 1946; one s. one d.; ed. Netherlands Air Staff Coll., Netherlands Defence Study Centre; escaped occupied territory 1942; R.A.F. Fighter Pilot 1944-46; Royal Netherlands Air Force 1946-, Deputy Dir. Personnel 1969, Deputy Chief of Staff 1971, Commdr. Tactical Air Command 1973; Chair. Netherlands Joint Chiefs of Staff Cttee. 1973-76; Chief of Defence Staff 1976-; Knight Order of Netherlands Lion, Officer Order of Orange-Nassau, Cross of Merit, Chevalier Légion d'honneur, Knight Grand Cross, Royal Order of the Polar Star. *Leisure interest:* sailing. *Address:* Jozef Israëlsplein 11, The Hague, Netherlands. *Telephone:* 070-24-27-81.

WIKSTRÖM, Jan-Erik, B.A.; Swedish politician and publisher; b. 11 Sept. 1932, St. Skedvi, Dalarna; s. of Börje Wikström and Essy (Lilja) Wikström; m. Grethel Persson 1955; two s. one d.; ed. Gothenberg Univ.; Man. Dir. Gummessons Bokförlag Publishing House 1961-76; mem. Municipal Council, Stockholm 1962-70; mem. Riksdag (Parl.) 1971-73, 1975-76; Minister of Educ. and Cultural Affairs Oct. 1976-; Chair. Int. Cttee. of Swedish Ecumenical Council; mem. Working Group of Communications of World Council of Churches; mem. Folkpartiet (Liberal Party). *Publications:* Röd och gul och vit och svart 1950, Skall kyrkan skiljas från staten 1958, Storm över Kongo 1961, Indien vid korsvägen 1962, Inför Herrens ansikte 1962, Politik och kristen tro 1964, Skall samhället utbilda präster? 1966, Liberala positioner 1969, Med frisinnat förtecken 1970, En bättre skola 1973, Möten med Mästaren 1975, I väntan på befrielsen 1977, Friket Mångfald Kvalitet 1978. *Leisure interests:* literary history, biographies, political literature, tennis. *Address:* Utbildningsdepartementet, Fack, 103 10 Stockholm; 22 Rådmansgatan, 114 25 Stockholm, Sweden (Home). *Telephone:* 763 18 19 (Office); 21 07 34 (Home).

WILBERFORCE, Baron (Life Peer), cr. 1964; **Richard Wilberforce,** C.M.G., O.B.E., M.A.; British judge; b. 11 March 1907, Jullundur; s. of Samuel Wilberforce and Katherine Sheepshanks; m. Yvette Lenoan 1947; one s. one d.; ed. Winchester Coll. and Oxford Univ.; Fellow, All Souls Coll., Oxford 1932-; Chief, Legal Div., Control Comm., Germany 1945; U.K. Rep. Legal Cttee. ICAO 1949-; Judge, High Court 1961-64; Lord of Appeal in Ordinary 1964-; mem. Perm. Court of Arbitration 1964-; Chair. Exec. Council, Int. Law Assn. 1965-; Pres. U.K. Assn. of European Law; High Steward, Oxford Univ. 1967-; Chancellor, Hull Univ. 1978-; Chair. Court of Inquiry into Electricity Workers' Dispute 1970-71, Mineworkers' Dispute 1972; Hon. D.C.L., LL.D.; Grand Cross, S. Rai-

mondo de Penafort. *Publication:* The Law of Restrictive Practices and Monopolies (joint author) 1957. *Leisure interests:* music, golf, philately, the turf. *Address:* 8 Cambridge Place, London, W.8, England.

WILBUR, Richard (Purdy), M.A.; American poet and university professor; b. 1 March 1921, New York City; s. of Lawrence L. Wilbur and Helen Purdy Wilbur; m. Charlotte Ward 1942; three s. one d.; ed. Amherst Coll., and Harvard Univ.; Asst. Prof. of English, Harvard Univ. 1950-54; Assoc. Prof. Wellesley Coll. 1954-57; Prof. Wesleyan Univ. 1957-77; Writer in Residence, Smith Coll., Northampton, Mass. 1977-; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Sciences, Soc. of Fellows of Harvard Univ. 1947-50; Guggenheim Fellow 1952-53, Ford Fellow 1961, Guggenheim Fellow 1963; Chancellor, Acad. of American Poets 1961; mem. PEN; Pres. American Acad. of Arts and Letters 1974-76, Chancellor 1977-78; mem. Dramatists Guild; Harriet Monroe Prize 1948; Oscar Blumenthal Prize 1950; Prix de Rome from American Acad. of Arts and Letters 1954-55; Edna St. Vincent Millay Memorial Award 1956; Nat. Book Award Pulitzer Prize 1957, co-recipient Bollingen Translation Prize 1963; co-recipient Bollingen Prize in Poetry 1971; Prix Henri Desfeuilles 1971; Brandeis Creative Arts Award 1971; Shelley Memorial Prize 1973, Harriet Monroe Poetry Award 1978. *Publications:* The Beautiful Changes and other poems 1947, Ceremony and other poems 1950, A Bestiary (anthology, with Alexander Calder) 1955, The Misanthrope (trans. from Molière) 1955, Things of this World (poems) 1956, Poems 1943-1956 1957, Candide (comic opera, with Lillian Hellman and others) 1957, Poe (edition of his poems with introduction and notes) 1959, Advice to a Prophet (poems) 1961, Tartuffe (trans. from Molière) 1963, The Poems of Richard Wilbur 1963, Loudmouse (for children) 1963, Poems of Shakespeare (with Alfred Harbage) 1966, Walking to Sleep (new poems and translations) 1969, School for Wives (translations) 1971, Opposites (Children's Verse, illustrated by the author) 1973, The Mind-Reader 1976, Responses: Prose Pieces 1953-1976 1976, The Learned Ladies (trans. from Molière) 1978, Selected Poems of Witter Bynner (editor) 1978. *Leisure interests:* tennis, walking, herb gardening. *Address:* Dodwells Road, Cummington, Mass. 01026, U.S.A. *Telephone:* 413-634-5420.

WILD, Earl; American pianist and composer; b. 26 Nov. 1915, Pittsburgh, Pa.; s. of Royland and Lillian G. Wild; ed. Carnegie Technical Coll., Pittsburgh; studied with Selmar Jansen, Egon Petri, Helene Barrere, Volya Cossack and Paul Doguereau; first American soloist to perform with NBC Orchestra conducted by Toscanini 1942, has performed with symphony orchestras and given recitals in many countries; has appeared with Sir Malcolm Sargent, Jascha Horenstein, Sir Georg Solti, Arthur Fiedler; played first TV piano recital 1939; has played for 7 Presidents of U.S., incl. inauguration of Pres. J. F. Kennedy; numerous recordings for RCA, EMI, Columbia, Nonesuch, Readers Digest and Vanguard Records. *Compositions include:* Piano Concerto, The Turquoise Horse (choral work) and ballet music, oratorios, solo piano music, choral work and popular songs. *Leisure interests:* writing poetry, playing piano. *Address:* 291 Lilliana Drive, Palm Springs, Calif. 92262, U.S.A.

WILD, John Paul, F.R.S., F.A.A., M.A., SC.D.; Australian radio astronomer; b. 1923, Sheffield, England; s. of Bessie (née Arnold), and the late Alwyn H. Wild; m. Elaine Poole Hull 1948; two s. one d.; ed. Whitgift School, Croydon, England and Peterhouse, Cambridge. Radar Officer, Royal Navy 1943-47; Researcher in Radio Astronomy, especially of the Sun, Radiophysics Div. of Commonwealth Scientific and Industrial Research Org. (CSIRO), N.S.W., Australia 1947-, Chief of Division 1971-77, Assoc. mem. 1977-, Dir. CSIRO Solar Radio Observatory, Culgoora, N.S.W. 1966-; Pres. Radio Astronomy Comm. of Int. Astronomical Union 1967-70; Foreign mem. American Philosophical Soc.; Foreign Hon. mem. American Acad. of Arts and Sciences; Corresp. mem. Royal Soc. of Sciences, Liège; Edgeworth David Medal, Hendryk Arctowski Gold Medal of Nat. Acad. of Sciences U.S., Balthasar van der Pol Gold Medal of Int. Union of Radio Science, Herschel Medal of Royal Astronomical Soc. *Publications:* various papers on radio astronomy in scientific journals. *Address:* 3 Strathfield Avenue, Strathfield, N.S.W. 2135, Australia.

WILDENSTEIN, Daniel Leopold, L. ES L.; French art historian; b. 11 Sept. 1917, Verrières-le-Buisson, France; s. of Georges and Jane (Lévi) Wildenstein; m. Martine Kapferer 1939 (divorced 1968); two s.; ed. Cours Hattemer, Sorbonne; joined Wildenstein and Co. Inc., New York 1940, Vice-Pres. 1943-59, Pres. 1959-68, Chair. 1968-; Pres. Wildenstein Foundation Inc., New York 1964-; Dir. Wildenstein and Co. Ltd., London, and Wildenstein Arte, Buenos Aires 1963-; Founder and Mem. American Inst. of France, New York 1947-; Dir. of Activities, Musée Jacquemart-André, and of Musée Chaalis (Institut de France), Paris, 1956-62; Dir. Gazette des Beaux-Arts 1963-; mem. French Chamber of Commerce in U.S. (Conseiller) 1942-, Inst. de France (Académie des Beaux-Arts) 1971-, Haut Comité du Musée de Monaco 1973-; organizer of art competitions (Hallmark art award). *Publications:* Claude Monet (Vol. I) 1975, Edouard Manet 1976-77. *Address:* 57 rue la Boétie, Paris 8ème, France (Office); B.P. 152 1000 Lausanne, 12 Chailly, Switzerland (Home).

WILDER, Billy; American film writer, producer and director; b. 22 June 1906, Austria; fmr. reporter, Berlin; film scriptwriter 1930-; wrote People on Sunday, Emil and the Detectives, Germany; writer and dir. Mauvaise Graine, Paris 1933; went to U.S. 1934; writer in collaboration Bluebeard's Eighth Wife 1938, Midnight 1939, Ninotchka 1939, What A Life 1939, Arise, My Love 1940, Hold Back the Dawn 1941, Ball of Fire 1941. *Films directed* (also co-scripted): The Major and the Minor 1942, Five Graves to Cairo 1943, Double Indemnity 1944, The Lost Weekend (Acad. Award) 1945, The Emperor Waltz 1947, A Foreign Affair 1948, Sunset Boulevard 1950; Producer, dir. and writer (in collaboration): The Big Carnival (or Ace in the Hole) 1951, Stalag 17 1953, Sabrina 1954, The Spirit of St. Louis 1957, Love in the Afternoon 1957, Witness for the Prosecution 1958, Some Like It Hot 1959, The Apartment (Acad. Award) 1960, One, Two, Three 1961, Irma La Douce 1963, Kiss Me, Stupid 1964, The Fortune Cookie (British title Meet Whiplash Willie) 1966, The Private Life of Sherlock Holmes 1970, Avanti 1972, Fedora 1978; co-producer, dir. and writer (in collaboration) The Seven Year Itch 1955; six Academy Awards (for Lost Weekend, Sunset Boulevard and The Apartment). *Address:* 1041 North Formosa Avenue, Hollywood, Calif. 90046, U.S.A.

WILDER, Raymond Louis, PH.B., PH.D., SC.D.; American professor of mathematics; b. 3 Nov. 1896, Palmer, Mass.; s. of John Louis Wilder and Mary Jane Shanley; m. Una Maude Greene 1921; one s. three d.; ed. Brown Univ. and Univ. of Texas; Instructor, Univ. of Tex. 1921-24; Asst. Prof., Ohio State Univ. 1924-26; Asst. Prof., then Prof., Univ. of Mich. 1926-47, Research Prof. 1947-67; Prof. Emer. 1967-; Josiah Willard Gibbs Lecturer 1969; Pres. American Mathematical Soc. 1955-56, Mathematical Assn. of America 1965-66; Visiting Prof. Univ. of Calif. at Santa Barbara 1969-; Distinguished Service Award, Mathematical Assn. of America 1972; mem. American Nat. Acad. Sciences. *Publications:* Lectures in Topology (Co-Editor with W. L. Ayres) 1941, Topology of Manifolds 1949, 2nd edn. 1963, Introduction to the Foundations of Mathematics 1952, 2nd edn. 1965, Evolution of Mathematical Concepts 1968. *Leisure interests:* piano, hiking, anthropology. *Address:* 2427 Calle Montilla, Santa Barbara, Calif. 93109, U.S.A. *Telephone:* 805-965-4449.

WILFORD, Sir (Kenneth) Michael, K.C.M.G.; British diplomatist; b. 31 Jan. 1922, Wellington, New Zealand; s. of late George McLean Wilford and late Dorothy Veronica (née Wilson); m. Joan Mary Law 1944; three d.; ed. Wrekin Coll. and Cambridge Univ.; Army service 1940-46 (mentioned in despatches); Foreign (later Diplomatic) Service 1947-; Third Sec., British Embassy Germany 1947; Asst. Private Sec. to Sec. of State, FO 1949; served France 1952, Singapore 1955; Asst. Private Sec. to Sec. of State, FO 1959; Private Sec. to Lord Privy Seal 1960; served Morocco 1962; Counsellor, Office of British Chargé d'Affaires, also Consul-Gen., People's Repub. of China 1964-66; Visiting Fellow, All Souls Coll., Oxford 1966-67; Counsellor, U.S.A. 1967-69; Asst. Under-Sec. of State, FCO 1969-73, Deputy Under-Sec. of State 1973-75; Amb. to Japan 1975-. *Leisure interests:* golf, gardening. *Address:* British Embassy, 1, Ichiban-cho, Chiyoda-ku, Tokyo, Japan; Brook Cottage, Abbotts Ann, Andover, Hants., England (Home).

WILGUS, A. Curtis, PH.D.; American historian, bibliographer and university professor; b. 2 April 1897, Platteville, Wis.; s. of James Wilgus and Flavia McGurer; m. 2nd Karna Steelquist 1947; one s.; ed. Univs. of Wisconsin and California; Asst. Instr. in History, Univ. of Wisconsin 1922-24; Assoc. Prof. of History, Univ. of South Carolina 1924-30; Prof. George Washington Univ. 1930-51; Dir. School of Inter-American Studies, and Prof. of History, Univ. of Florida 1951-63, Dir. Caribbean Confs. 1950-67; Vice-Chancellor Int. Inst. of Arms, San Juan, Puerto Rico and Miami 1967-69; Visiting Prof. of Inter-American Studies, Inter-American Univ. of Puerto Rico, Spring 1972, Spring 1974, Consultant to Dir., North-South Center of Puerto Rico 1971-72; organizer, charter mem. and Pres. Inter-American Bibliographical and Library Assn.; charter mem. Soc. for Advancement of Educ.; Dir. Pan-Am Foundation; mem. Nat. Council, Inst. of Int. Educ.; corresp. mem. Acad. of American Franciscan History; Foreign corresp. Panama American; mem. Board Americas Foundation; awards include U.S., Venezuelan, French and Swedish honours; Editor World Affairs 1940-51,

Inter-American Bibliographical Review 1940-43, Doors to Latin America 1950-, Latin American Monographs 1957-63, Grandes Figures de America series 1957-60, Gateway to Latin America series 1964-65, Library of Latin American History and Culture series 1965, Editor Source Books and Studies on Latin America 1969; Founder Journal of Inter-American Studies 1959, Chair. Board of Editors 1963. *Publications:* An Outline of Hispanic American History 1927, A History of Hispanic America 1931, Histories and Historians of Hispanic America 1936, 1942, 1965, Outline-History of Latin America (with Dr Raul d'Eca) 1939, Development of Hispanic America 1941, 1969, Latin America in Maps 1943, Readings in Latin-American Civilization 1946, Editor Modern Hispanic America 1933, The Caribbean Area 1934, Argentina, Brazil and Chile since Independence 1935, 1963, Colonial Hispanic America 1936, 1963, South American Dictators 1937, 1963, Hispanic American Essays 1942, 1970, Latin American History (with Raul d'Eca) 1963, 1965, 1966, 1967, Historical Dictionaries of Latin America, 23 vols. (editor) 1967-, Historical Atlas of Latin America 1967, 1969, Latin America 1492-1942: A Guide to Historical and Cultural Development before World War II 1973, Latin America in the Nineteenth Century (a selected bibliography) 1973, Historiography of Latin America 1500-1800 1975, Latin America, Spain and Portugal, A Selected and Annotated Guide to Books Published in the United States 1954-1974 1977, editor of 17 vols. on the contemporary Caribbean 1951-67. *Leisure interest:* book reviewing. *Address:* 130 East 67 Street, New York, N.Y. (Office); 1140 N.E. 191st Street, North Miami Beach, Fla., U.S.A. (Home).

WILKES, Maurice Vincent, PH.D., F.R.S., F.I.E.E., F.B.C.S.; British university professor; b. 26 June 1913, Dudley; s. of Vincent J. Wilkes, O.B.E.; m. Nina Twyman 1947; one s. two d.; ed. King Edward VI School, Stourbridge, and St. John's Coll., Cambridge; University Demonstrator 1937; Radar and Operational Research, Second World War; Univ. Lecturer and Acting Dir. of Mathematical Lab., Cambridge 1945, Dir 1946-70; Head of Computer Lab. 1970; Prof. of Computer Technology, Univ. of Cambridge 1965-; mem. Measurement and Control Section Cttee., Inst. of Electrical Engineers 1956-59; First Pres. British Computer Soc. 1957-60; mem. Council Int. Fed. for Information Processing 1960-63, Council of the Inst. of Electrical Engineers 1973-76; Touring Lecturer Assn. for Computing Machinery 1967; Distinguished Fellow, British Computer Soc. 1973; Foreign hon. mem. American Acad. Arts and Sciences 1974; Foreign Assoc. U.S. Nat. Acad. of Engineering 1977; Dr. h.c. (Amsterdam) 1978; Harry Goode Memorial Award, American Fed. of Information Processing Socs. 1968. *Publications:* Oscillations of the Earth's Atmosphere 1949, Preparation of Programs for an Electronic Digital Computer 1951, 1957, Automatic Digital Computers 1956, A Short Introduction to Numerical Analysis 1966, Time-Sharing Computer Systems 1968, 1972, 1975. *Address:* Computer Laboratory, Corn Exchange Street, Cambridge, England. *Telephone:* 52435.

WILKINS, Graham John; British business executive; b. 22 Jan. 1924, Mudford, Somerset; s. of George W. and Ann May Wilkins (née Clarke); m. Daphne Mildred Haynes 1945; ed. Yeovil School, Univ. Coll. of South West, Exeter; Man. Dir. Beecham Research Laboratories 1961; Chair. Beecham Pharmaceutical Div., Dir. Beecham Group Ltd. 1964, Man. Dir. (Pharmaceuticals) 1973; Exec. Vice-Chair. Beecham Group Ltd. 1974-75, Chair. 1975-; Vice-Chair. Proprietary Assn. of Great Britain 1966-68, Pres. Assn. of British Pharmaceutical Industry 1969-71, European Fed. of Pharmaceutical Mfrs. Assns. 1978; Chair. Medico-Pharmaceutical Forum 1972, 1973; non-exec. Dir. Courtaulds Ltd. 1975, Hill Samuel & Co. Ltd. 1976, Thorn Electrical Industries Ltd. 1978. *Leisure interests:* golf, motor yacht cruising, travel. *Address:* Beecham Group Ltd., Beecham House, Great West Road, Brentford, Middx.; Alceda, Walton Lane, Shepperton-on-Thames, Middx., England (Home). *Telephone:* Walton 27714 (Home).

WILKINS, Maurice Hugh Frederick, C.B.E., PH.D., F.R.S.; British molecular biologist; b. 15 Dec. 1916, Pongaroa, New Zealand; s. of E. H. Wilkins and Eveline Whittaker; m. Patricia Chidgey 1959; two s. two d.; ed. St. John's Coll., Cambridge; Research on luminescence of solids, Physics Dept. Birmingham Univ.; Ministry of Home Security and Aircraft Production 1938; Manhattan Project (Ministry of Supply), Univ. of California 1944; Lecturer in Physics, St. Andrews Univ. 1945; Medical Research Council, Biophysics Unit, King's Coll., London 1946, Deputy Dir. 1955-70, Dir. 1970-72, Dir. Neurobiology Unit (Cell Biophysics Unit 1974-), MRC 1972; Prof. of Biophysics and Head of Dept., King's Coll. 1970-, Fellow 1973-; Pres. British Soc. for Social Responsibility in Science 1969; Hon. mem. American Soc. of Biological Chemists 1964; Foreign Hon. mem. American Acad. of Arts and Sciences 1970; Hon. LL.D.; Albert Lasker Award, American Public Health Assn. 1960; Joint Nobel Prize for Physiology or Medicine 1962. *Publications:* Papers on luminescence and topics in biophysics e.g. molecular structure of nucleic acids and structure of nerve membranes. *Leisure interests:* gardening. *Address:* Department of Biophysics, King's College, 26-29 Drury Lane, London, W.C.2; 30 St. John's Park, London, S.E.3, England. *Telephone:* 01-836 8851.

WILKINS Roger C.; American insurance executive; b. 6 June 1906, Houlton, Me.; s. of George and Amanda Wilkins (née Carson); m. Evelyn McFadden, 1933; one d.; ed. Univ. of Maine; joined Travelers Corpn. 1929, Vice-Pres. 1953, Sen. Vice-Pres. 1965, Dir. and Chair. of Finance Cttee. 1968, Pres. and Chief Exec. Officer 1969-71, Chair. 1971-74, Chair. Exec. Cttee. 1974-; Chair. Broadcast Plaza Inc.; Dir. Prospect Co., Conn. Bank and Trust Co., Conn. Natural Gas Co., Chemical Express Co., United Aircraft Corpn., Allis-Chalmers Corpn.; Dir./ Trustee U.S. Chamber of Commerce, American Life Insurance Assn. of America, Nat. Telephone Co., Wells Fargo Mortgage Investors and of numerous other business and philanthropic concerns; Hon. LL.D. (Univ. of Hartford, Ricker and Trinity Colls.). *Leisure interests:* golf, fishing, horticulture. *Address:* 100 Constitution Plaza, Hartford, Conn. 06115 (Office); 791 Prospect Avenue, West Hartford, Conn. 06105, U.S.A. (Home). *Telephone:* 203-277-2886 (Office).

WILKINS, Roy; American civil rights administrator; b. 30 Aug. 1901, St. Louis, Miss.; s. of William and Mayfield (Edmundson) Wilkins; m. Aminda Badeau 1929; ed. Univ. of Minnesota; Man. Editor The Call, Kansas City, Mo. 1923-31; joined staff of Nat. Assn. for the Advancement of Colored People (NAACP) as Asst. Exec. Sec. 1931, Administrator 1950-55, Exec. Sec. 1955-64, Exec. Dir. 1964-77, Emer. 1977-; Chair. U.S. Del. to Int. Conf. on Human Rights 1968; Theodore Roosevelt Award 1968; U.S. Medal of Freedom 1968; Joseph Prize for Human Rights 1975; Hon. degrees from Atlanta Univ., Notre Dame Univ., Boston Univ., Coloumbia Univ., Fordham Univ., etc. *Address:* 1790 Broadway, New York, N.Y. 10019 (Office); 147-15 Village Road, Jamaica, N.Y. 11435, U.S.A. (Home).

WILKINSON, Sir Denys Haigh, Kt., D.SC., PH.D., SC.D., F.R.S.; British physicist and university professor; b. 5 Sept. 1922, Leeds; s. of Charles and Hilda Wilkinson; m. 1st Christiane Clavier 1947, three d.; m. 2nd Helen Sellschop 1967; ed. Jesus Coll., Cambridge; worked on British Atomic Energy Project 1943-46, on Canadian Atomic Energy Project 1945-46; Demonstrator 1947-51, Lecturer 1951-56 and Reader 1950-57 Cavendish Laboratory of Univ. of Cambridge; Fellow, Jesus Coll., Cambridge 1944-59, Hon. Fellow 1961-; Student of Christ Church, Oxford 1957-76, Emer. 1976-; Prof. of Nuclear Physics Clarendon Laboratory of Univ. of Oxford 1957-59, Prof. of Experimental Physics 1959-76, Head of Dept. of Nuclear Physics 1962-76; Vice-Chancellor Sussex Univ. Sept. 1976-; Rutherford Memorial Lecturer of British Physical Soc. 1962; mem. Governing Board Nat. Inst. for Research in Nuclear Science 1958-64; Queen's Lecturer Berlin 1966; Cherwell-Simon Memorial Lecturer, Oxford 1970; Tizard Memorial Lecturer 1975, Lauritsen Memorial Lecturer Calif. Inst. of Tech. 1976, Schiff Memorial Lecturer Stanford Univ. 1977, Racah Memorial Lecturer Univ. of Jerusalem 1977; mem. Science Research Council 1967-70; Chair. S.R.C. Nuclear Physics Board 1968-70, Physics III Cttee. CERN, Geneva 1971-75, Radioactive Waste Man. Advisory Cttee. 1978-; Hon. D.Sc. (Univ. of Saskatchewan, Utah State Univ.); Holweck Medallist of French and British Physical Socs. 1957, Hughes Medal of the Royal Soc. 1965; Bruce-Preller Prize of Royal Soc. of Edinburgh 1969; Battelle Distinguished Prof., Univ. of Washington 1970; Tom W. Bonner Prize of American Physical Soc. 1974. *Publications:* Ionization Chambers and Counters 1950, Editor: Isospin in Nuclear Physics 1969, Progress in Particle and Nuclear Physics 1977, Mesons in Nuclei (joint ed.) 1979 and many articles in learned journals. *Leisure interests:* early music and art, ornithology. *Address:* University of Sussex, Falmer, Brighton, Sussex, BN1 9RH, England. *Telephone:* Brighton 606755.

WILKINSON, Sir Geoffrey, Kt., PH.D., F.R.S.; British professor of inorganic chemistry; b. 14 July 1921, Todmorden; s. of Henry and Ruth Wilkinson; m. Lise Sølver Schou 1953; two d.; ed. Todmorden Secondary School, Imperial Coll., London; Junior Scientific Officer, Nat. Research Council of Canada 1943-46; Research Assoc., Radiation Lab., Univ. of Calif. 1946-50, Mass. Inst. of Technology 1950-51; Asst. Prof. Harvard Univ. 1951-55; Prof. Inorganic Chem., Imperial Coll., London 1956-; Sir Edward Frankland Prof. of Inorganic Chem.; Dwyer Memorial Lecturer, Univ. N.S.W. 1977; Foreign mem. Royal Danish Acad. of Science, American Acad. of Arts and Sciences, Nat. Acad. of Sciences; Hon. Counsellor Spanish Research Council; Centennial Foreign Fellow, American Chemical Soc. 1976; Hon. D.Sc. (Edinburgh, Granada) 1976, (Columbia) 1978; Lavoisier Medal, Nobel Prize for Chem. 1973. *Publications:* Advanced Inor-

ganic Chemistry (with F. A. Cotton) 3rd edn. 1972, Basic Inorganic Chemistry (with F. A. Cotton) 1976, and over 300 scientific papers. *Leisure interest:* organic chemistry. *Address:* Chemistry Department, Imperial College, London, SW7 2AY, England.

WILKINSON, Sir Harold, Kt., C.M.G.; British oil executive; b. 24 Feb. 1903; fmrly. Man. Dir. and Deputy Chair. The Shell Transport and Trading Co. Ltd.; fmr. Man. Dir. The Shell Petroleum Co. Ltd., Man. Dir. Shell Exploration Co. Ltd., Shell Int. Petroleum Co. Ltd.; Principal Dir. of Bataafse Petroleum Mij. N.V.; Chair. Canadian Shell Ltd., Shell Tankers Ltd.; Vice-Chair. Shell Caribbean Petroleum Co. (New York); Dir. Bataafse Internationale Chemie Mij. N.V., Shell Int. Chemical Co. Ltd., Shell Oil Co. (New York), retired July 1964; U.S. Medal of Freedom with Bronze Palm 1951, Knight Commdr. Order of Merit, Ecuador. *Address:* La Sologne en Ballègue, Epalinges 1066, nr. Lausanne, Switzerland.

WILKINSON, Kenneth Grahame, C.B.E., B.SC., F.C.G.I., D.I.C., C.ENG., F.R.AE.S., F.C.I.T., F.S.L.AE.T., F.R.S.A.; British business executive; b. 14 July 1917, London; s. of Bertie and Dorothy Wilkinson; m. Mary Holman Victory 1941; one s. one d.; ed. Shooters Hill School, London, Coll. of Aeronautical Engineering, Chelsea and Imperial Coll., London; Aerodynamics Dept., Royal Aircraft Establishment, Farnborough 1938-46, Senior Scientific Officer 1945; Supt. Performance and Analysis, British European Airways 1946-52, Schedules Planning Man. 1952-59, Fleet Planning Man. 1960-61, Asst. to Chief Maintenance Engineer 1961-62, Asst. Chief Engineer 1962-64, Chief Engineer 1964-70, Mem. Board 1968-72, Deputy Chief Exec. and Man. Dir. Mainline BEA 1971-72, Chair. and Chief Exec. Sept.-Nov. 1972, mem. Board British Airways 1971-72, 1976-, Engineering Dir. 1976-; Dir. Airways Aero Asscns. Ltd.; Man. Dir. Rolls-Royce (1971) Ltd. 1972-74, Vice-Chair. and mem. Board 1974-76; Chair. BGA Tech. Cttee. 1946-48, BGA 1970, Vice-Pres. 1972; Pres. Royal Aeronautical Soc. 1972; mem. Cranwell Advisory Board 1970-, Council Cranfield Inst. of Tech. 1971; Hon. D.Sc. *Publications:* Sailplanes of the World (with B. S. Shenstone) (Vol. I) 1960 (Vol. II) 1963, articles and papers in Journal of Royal Aeronautical Soc. on aircraft engineering. *Leisure interests:* gliding, swimming, gardening, travel. *Address:* British Airways, Speedbird House, P.O. Box 10, Heathrow Airport (London), Hounslow, Middx., England. *Telephone:* 01-897 5269.

WILKINSON, Sir Martin (*see* Wilkinson, Sir Robert Francis Martin).

WILKINSON, Peter Ian, LL.B.; New Zealand politician; b. 12 Nov. 1935; s. of Rev. G. L. B. and Joyce Wilkinson (now McLay); m. Cunitia Evelyn Tattersfield 1969; ed. Auckland Grammar School, Durham Univ., Univ. of Auckland; mem. Parl. for Rodney 1969-78, for Kaipara 1978-; Attorney-Gen. and Minister of Customs 1975-78, later also Postmaster-Gen. *Leisure interests:* gardening, motoring, boating. *Address:* Parliament Buildings, Wellington; Martin's Bay, Warkworth, North Auckland, New Zealand. *Telephone:* 725-068; Mahurangi 800.

WILKINSON, Sir (Robert Francis) Martin, Kt.; British stockbroker; b. 4 June 1911, Blackheath, London; s. of the late Sir Robert Pelham Wilkinson and the late Phyllis Marian Wilkinson; m. Dora Esme Arendt 1936; three d.; ed. Repton School; Partner, de Zoete and Gorton 1936-70, de Zoete and Bevan 1970-; mem. London Stock Exchange (now United Stock Exchange) 1933-, mem. Council 1959-, Deputy Chair. 1963-65, Chair. 1965-73, Chair. United Stock Exchange March-June 1973; apptd. one H.M. Lieutenants for City of London 1973; became Freeman, City of London in Co. of Needlemakers 1973. *Leisure interest:* gardening. *Address:* Kixes, Sharpthorne, Sussex; 25 Finsbury Circus, London E.C.2, England. *Telephone:* 01-588-4141.

WIŁKOMIRSKA, Wanda; Polish violinist; b. 11 Jan. 1929, Warsaw; d. of Alfred Wiłkomirski and Dorota Temkin; m. Mieczysław F. Rakowski (*q.v.*) 1952; two s.; ed. Łódź Conservatory and in Budapest and France; public debut at age of 7 years; first appearance with orchestra aged 15, in Cracow; studied under Irena Dubiska (Łódź), Ede Zathureczky (Budapest) and Henryk Szeryng (Paris); Polish State Prize 1952, 1964; several foreign prizes, including Bach Competition award of Dem. German radio; Officer's Cross of Polonia Restituta 1953; Order of Banner of Labour 2nd Class 1959, 1st Class 1964; Minister of Culture and Arts Prize, 1st Class 1975; numerous recordings; now appears frequently with most of the major orchestras throughout the world. *Leisure interests:* theatre, literature, sports. *Address:* Inflancka 19 M 384, 00-189 Warsaw, Poland. *Telephone:* 175-843.

WILLATT, Sir Hugh, Kt., M.A., F.R.S.A.; British fmr. solicitor and arts administrator; b. 25 April 1909, Nottingham; s. of Robert John Willatt and Marguerite Gardner; m. Evelyn Gibbs, A.R.E., A.R.C.A. 1945; ed. Repton and Pembroke Coll., Oxford; qualified as Solicitor 1934, practised in family firm in Nottingham until 1960, Partner in Lewis Silkin & Partners, Westminster 1960-68; mem. Arts Council Drama Panel 1955-68, Chair. 1960-68; Sec.-Gen. of Arts Council of Great Britain 1968-75; Fellow, Royal Soc. of Arts 1974; mem. Boards of Nottingham Playhouse, Mercury Trust Ltd. (Ballet Rambert) and Nat. Theatre at various times; mem. Council and Management Cttee. English Stage Co. (Royal Court Theatre); Chair. British Opera Studio, Riverside Studios, Hammersmith. *Leisure interests:* reading, travel and sport. *Address:* 4 St. Peter's Wharf, Hammersmith Terrace, London, W.6, England. *Telephone:* 01-741-2707.

WILLCOCKS, Sir David (Valentine), Kt., C.B.E., M.C., M.A., MUS.B., F.R.C.O., F.R.C.M.; British musician; b. 30 Dec. 1919, Newquay, Cornwall; s. of T. H. Willcocks; m. Rachel Blyth 1947; two s. two d.; ed. Clifton Coll. and King's Coll., Cambridge; Fellow, King's Coll., Cambridge 1947-51; Organist Salisbury Cathedral 1947-50, Worcester Cathedral 1950-57; Conductor, Worcester Three Choirs Festival and City of Birmingham Choir 1950-57; Fellow and Dir. of Music, King's Coll., Cambridge 1957-73; Lecturer in Music, Cambridge Univ. and Cambridge Univ. Organist 1957-74; Conductor Cambridge Univ. Music Soc. 1958-73; Musical Dir. Bach Choir, London 1960-; Pres. Royal Coll. of Organists 1966-68; Pres. Incorporated Soc. of Musicians 1978-79; Dir. Royal Coll of Music, London 1974-; Hon. D.Mus. (Exeter and Leicester Univs.), Hon. M.A. (Bradford Univ.), Hon. R.A.M., Hon. Fellow, Royal Canadian Coll. of Organists, Hon. F.R.N.C.M., F.R.S.C.M., F.T.C.L. *Leisure interests:* golf, swimming, bridge. *Address:* Royal College of Music, Prince Consort Road, London, SW7 2BS, England. *Telephone:* 01-589 3643.

WILLEBRANDS, H.E. Cardinal Johannes Gerardus Maria, DR. PHIL.; Netherlands ecclesiastic; b. 4 Sept. 1909, Bovenkarspel; s. of Herman Willebrands and Afra Kok; ed. Warmond Seminary, Holland, Angelicum, Rome; ordained 1934; Chaplain, Begijnhof Church Amsterdam 1937-40; Prof. of Philosophy, Warmond 1940, Dir. 1945; Pres. St. Willibrord Assen. 1946: organized Catholic Conf. on Ecumenical Questions 1951; Sec. Vatican Secretariat for Promoting Christian Unity 1960, Pres. 1969-; created Bishop 1964; created Cardinal 1969; appointed Archbishop of Utrecht 1975. *Publications:* La Liberté religieuse et l'oecuménisme; Ecumenismo e problemi attuali, Oecuménisme et problèmes actuels; Bibel, ekumenik och sekularisering; Christus, Zeichen und Ursprung der Einheit in einer geteilten Welt. *Address:* Segretariato per l'unione dei cristiani, Via dell'Erba I, Rome 00193, Italy; Maliebaan 40, Utrecht, Netherlands. *Telephone:* Rome 698-4181 (Italy).

WILLESEE, Donald Robert; Australian politician; b. 14 April 1916, Derby, W. Australia; m.; four s. two d.; ed. state schools; mem. Senate 1949-75; Leader of Opposition in Senate 1966-67, Deputy Leader 1969-72; Special Minister of State, Minister Assisting the Prime Minister 1972-73; Minister for Foreign Affairs 1973-75, Leader of Australian Del. to UN Gen. Assembly 1973, 1974; mem. Joint Cttee. on Foreign Affairs 1967, Privileges Cttee. 1969; mem. several Parl. dels. abroad. *Address:* 5 Walton Place, Quinns Rocks, Western Australia, Australia.

WILLEY, Rt. Hon. Frederick Thomas, P.C., M.P.; British politician; b. 1910; m. Eleanor Snowdon 1939; two s. one d.; ed. Johnston School, Durham, and St John's College, Cambridge; called to Bar, Middle Temple 1936; M.P. 1945-; Parl. Private Sec. to Rt. Hon. J. Chuter Ede 1946-50; Parl. Sec. to Ministry of Food 1950-51; fmr. Dir. North-Eastern Trading Estates Ltd.; fmr. River Wear Commissioner; fmr. mem. Consultative Assembly, Council of Europe and Assembly, Western European Union; Minister of Land and Natural Resources 1964-67; Minister of State, Ministry of Housing and Local Govt. 1967; Vice-Pres. Save the Children Fund; Chair. Select Cttee. on Educ. and Science 1968; Chair. Select Cttee. Members' Interests, Race Relations, Parl. and Scientific Cttee.; Vice-Chair. Parl. Labour Party, Chair. May 1979-; Labour. *Publications:* Plan for Shipbuilding, Education: Today and Tomorrow, An Enquiry into Teacher Training, The Honourable Member. *Address:* 11 North Square, London, N.W.11, England.

WILLEY, Gordon Randolph, PH.D.; American archaeologist; b. 7 March 1913, Chariton, Ia.; s. of Frank Willey and Agnes Caroline Wilson; m. Katharine Winston Whaley 1938; two d.; ed. Univ. of Arizona and Columbia Univ.; Instructor in Anthropology Columbia Univ. 1942-43; Anthropologist, Bureau of American Ethnology, Smithsonian Inst. 1943-50; Bowditch Prof. of Mexican and Central American Archaeology, Harvard Univ. 1950-; mem. Nat. Acad. of Sciences; Hon. D.Litt. (Cambridge) 1977; Wenner-Gren Medal for Archaeology 1953, Order of Quetzal, Republic of Guatemala 1968,

Archaeological Inst. of America Gold Medal 1973, A. V. Kidder Medal for Archaeology (American Anthropological Assn.) 1974. *Publications:* Archaeology of the Florida Gulf Coast 1949, Prehistoric Settlement Patterns of the Viru Valley, Peru 1953, Method and Theory in American Archaeology 1958, Prehistoric Maya Settlements in the Belize Valley 1965, An Introduction to American Archaeology Vol. I 1966, Vol. II 1971, Excavations at Altar de Sacrificios, Guatemala 1973, A History of American Archaeology (co-author) 1974, Excavations at Seibal, Guatemala 1975. *Leisure interests:* tennis, swimming, English literature and literary criticism. *Address:* Peabody Museum. Harvard University, Cambridge, Mass. 02138; 25 Gray Gardens E., Cambridge, Mass., U.S.A. (Home). *Telephone:* UN8-7600, Ext. 2249 (Office); EL4-1287 (Home).

WILLIAMS, Albert L.; American business machine executive; b. 17 March 1911, Berwick, Pa.; s. of William F. and Mabel (née Lynn) Williams; m. 1st Ruth Bloom 1931 (died 1964), 2nd Katherine Carson 1966; one s. one d.; ed. Beckley Coll.; Student Sales Rep., Int. Business Machines Corpn. (IBM) 1936, Sales Rep. 1937, Controller 1942-47, Treas. 1947, Vice-Pres. and Treas. 1948-51, mem. Board of Dirs. 1951-, Exec. Vice-Pres. 1954-61, Pres. 1961-66, Chair. Exec. Cttee. Board of Dirs. 1966-71, Chair. Finance Cttee. 1971-; Dir. Mobil Oil Corpn., First Nat. City Bank (New York), Gen. Foods Corpn., Eli Lilly and Co.; Trustee, Alfred P. Sloan Foundation; Chair. President's Comm. on Int. Trade and Investment Policy 1970-71. *Address:* International Business Machines Corporation, Old Orchard Road, Armonk, N.Y. 10504, U.S.A.

WILLIAMS, Betty; British Peace Prize Winner; b. 22 May 1943, Belfast; m. Ralph Williams 1961; ed. St. Teresa's Primary School, Belfast; works as office receptionist; winner of Nobel Peace Prize for launching the Northern Ireland Peace Movement (later renamed Community of the Peace People) 1976; Carl von Ossietzky Medal for Courage (Berlin Section, Int. League of Human Rights); Hon. LL.D. (Yale Univ.). *Address:* c/o Community of the Peace People, 224 Lisburn Road, Belfast BT9 6GE, Northern Ireland.

WILLIAMS, Carroll Milton, PH.D., M.D.; American Professor of biology; b. 2 Dec. 1916, Richmond, Va.; s. of George Leslie and Jessie Hendricks Williams; m. Muriel Voter Williams 1941; four s.; ed. Univ. of Richmond and Harvard Univ.; Asst. Prof., Harvard Univ. 1946-48, Assoc. Prof. 1948-53, Prof. 1953-66, Bussey Prof. of Biology 1966-; Jr. Prize Fellow of Harvard Soc. of Fellows 1941-45, Guggenheim Fellow 1955-56; Fellow, American Acad. of Arts and Sciences; Chair. Zoology Section Nat. Acad. of Sciences 1970-72, mem. Council Nat. Acad. of Sciences 1973-76, American Philosophical Soc., Inst. of Medicine of Nat. Acad. of Sciences; Hon. D.Sc.; Annual Research Prize of A.A.A.S. 1950, Boylston Prize and Gold Medal of Harvard Medical School 1961, George Ledlie Prize of Harvard Univ. 1967, H. T. Ricketts Award of Univ. of Chicago 1969. *Publications:* Over 170 scientific articles on biology with special reference to insects. *Leisure interests:* music, entomology. *Address:* The Biological Laboratories, Harvard University, 16 Divinity Avenue, Cambridge, Mass. 02138; 27 Eliot Road, Lexington, Mass., U.S.A. (Home).

WILLIAMS, Cecil Beaumont, O.B.E., B.A., DIP.ED.; Barbadian civil servant and diplomatist; b. 8 March 1926, Barbados; s. of George and Violet Williams; m. Dorothy Marshall 1952; two s. one d.; ed. Harrison Coll. Barbados, Durham Univ., New Coll. Oxford and Econ. Devt. Inst. IBRD.; Perm. Sec. Ministry of Educ. 1958, Ministry of Trade, Industry and Labour 1958-63; Dir. Econ. Planning Unit 1964-65; Man. Industrial Devt. Corpn. 1966-67; High Commr. to Canada 1967-70; Perm. Sec. Ministry of External Affairs 1971-74; Amb. to U.S.A. and Perm. Rep. to OAS 1974-75; High Commr. to U.K. and concurrently accred. as Amb. to Norway, Sweden, Fed. Repub. of Germany, Netherlands, France, European Communities, Denmark, Israel, Luxembourg, Austria and Finland 1976-. *Leisure interests:* golf, tennis, music, reading. *Address:* Barbados High Commission, 6 Upper Belgrave Street, London, SW1X 8AZ, England.

WILLIAMS, Emlyn, C.B.E., M.A., F.R.L.S.; British actor and dramatist; b. 26 Nov. 1905, Mostyn, Wales; s. of Richard and Mary Williams; m. Molly O'Shann 1934 (deceased); two s.; ed. County School, Holywell, and Christ Church, Oxford; First London stage appearance in And So To Bed, Savoy Theatre 1927; since then has appeared in most of his own plays and also in The Winslow Boy 1947, Montserrat 1950, The Wild Duck 1955, Shadow of Heroes 1958, A Man for All Seasons (New York) 1962-63, The Deputy (New York) 1964, A Month in the Country 1965-66, Forty Years On 1969, and at the Old Vic and the Memorial Theatre, Stratford-on-Avon; solo theatrical performances ■ Charles Dickens 1951, 1952, 1961, 1970, 1975, and as Dylan Thomas (A Boy Growing Up) 1955, 1957, 1958 and 1964; has played in the films The Last Days of Dolwyn, Another Man's Poison, Ivanhoe, The Deep Blue Sea, I Accuse, Beyond This Place, The Wreck of the Mary Deare, The L-Shaped Room, The Eye of the Devil, The Walking Stick, David Copperfield; Hon. LL.D. (Bangor). *Plays:* A Murder Has Been Arranged 1931, Glamour, Full Moon, Vessels Departing, Spring 1600, Night Must Fall 1935, He Was Born Gay 1937, The Corn is Green 1938, The Light of Heart 1940, The Morning Star 1941, The Druids' Rest 1944, The Wind of Heaven 1945, Trespass 1947, Accolade 1950, Someone Waiting 1953, Beth 1958; adapted The Late Christopher Bean, A Month in the Country; wrote, directed and played in the film The Last Days of Dolwyn 1948. *Publications:* George (autobiog. Vol. I) 1961, Emlyn (autobiog. Vol. II) 1973; study of murder Beyond Belief 1967; Doctor Crippen's Diary 1979. *Leisure interests:* reading, walking. *Address:* 123 Dovehouse Street, London, S.W.3, England.

WILLIAMS, Hon. Eric Eustace, D.PHIL.; Trinidadian politician; b. 25 Sept. 1911; ed. Tranquillity Intermediate School, Queen's Royal Coll., Port of Spain, and Oxford Univ.; Prof. Social and Political Science Howard Univ., Washington 1939; Julius Rosenwald Fellowships 1940 and 1942; Consultant British Section Anglo-American Caribbean Comm. 1943-44; Sec. Agricultural Cttee. Caribbean Comm. 1944-46; Consultant Caribbean Comm. 1946-48; Deputy Chair. Caribbean Research Council, Caribbean Comm. 1948-55; Chief Minister and Minister of Finance, Planning and Development, Trinidad 1956-61, Premier 1959; Minister of External Affairs 1961-64; Prime Minister independent state of Trinidad and Tobago Sept. 1962-, also Minister of Finance, Planning and Devt. 1967-71, also Minister for External Affairs 1973-75, also Minister for Finance 1975-; Gov. IMF March 1977-; Pro-Chancellor Univ. of W. Indies until 1971; Hon. LL.D. (Univ. of New Brunswick) 1965; Hon. D.C.L. (Oxford). *Publications:* The Negro in the Caribbean 1942, Capitalism and Slavery 1944, Education in the West Indies 1950; Editor Caribbean Historical Review; Documents on British West Indian History, 1807-1833 1952, The British West Indies at Westminster Pt. I 1789-1823 1953, A History of the People of Trinidad and Tobago 1962, Documents of West Indian History 1963, Capitalism and Slavery 1964, British Historians and the West Indies 1965, Inward Hunger 1969, From Columbus to Castro 1970. *Address:* Prime Minister's Residence, La Fantasie Road, Port of Spain, Trinidad.

WILLIAMS, G. Mennen, A.B., J.D.; American lawyer and politician; b. 23 Feb. 1911, Detroit; s. of Henry Phillips and Elma Christina (Mennen) Williams; m. Nancy Lace Quirk 1937; one s. two d.; ed. Princeton Univ., and Univ. of Michigan Law School; Attorney, Social Security Board, Washington, D.C. 1936-37; Asst. Attorney Gen., State of Michigan 1938-39; Exec. Asst. to U.S. Attorney Gen. 1939-40, Special Asst., Criminal Division 1940-41; served U.S. Navy 1942-46; Deputy Dir., Office of Price Admin., Michigan 1946-47; Democratic mem. Michigan Liquor Control Comm. 1947-48; fmr. mem. law firm of Griffiths, Williams & Griffiths: Gov. of Michigan 1949-60; Sec. of State for African Affairs 1961-66; Amb. to Philippines 1968-69; Justice, Michigan Supreme Court 1971-; Hon. LL.D. (Wilberforce, Michigan, Michigan State, Western Michigan, Liberia, World, Puerto Rico and Lincoln Univs., Aquinas Coll., St. Augustine's Coll., Ferris Inst.); Dr. of Humanities (Lawrence Inst. of Technology); Legion of Merit; Grand Officer Order of Orange-Nassau (Netherlands); Grand Commdr. Royal Order of Phoenix (Greece); Humane Band of African Redemption (Liberia), Polonia Restituta (Polish Govt. in Exile), Pro Merito Latvia; Democrat. *Leisure interests:* golf, fishing, tennis. *Address:* Michigan Supreme Court, Law Building, Lansing, Mich. 48901; and 1425 Lafayette Building, Detroit, Mich. 48226 (Offices); 25 Tonnancour Place, Grosse Pointe Farms, Mich. 48236, U.S.A. (Home).

WILLIAMS, Harrison Arlington, Jr., B.A., LL.D.; American lawyer and politician; b. 10 Dec. 1919; ed. Oberlin Coll., Ohio, Columbia Univ. Law School, and Georgetown Univ. Foreign Service School; seaman on a minesweeper and Navy pilot during Second World War; mem. U.S. House of Reps. 1953-56; U.S. Senator from New Jersey 1959-; Chair. U.S. Senate Human Resources Cttee. 1971-; Democrat. *Address:* 970 Broad Street, Newark N.J.; and Senate Office Building, Washington D.C. 20510 (Offices); P.O. Box 02, Holland Road, Bedminster, N.J. 07921, U.S.A. (Home).

WILLIAMS, Ian George Keith, B.SC.ECON.; British international civil servant; b. 19 Nov. 1921, Southsea, Hants.; s. of George James and Dorothy Gertrude (née Hollier) Williams; m. Florence Davies 1946; one d.; ed. Purbrook Park County High School and privately; Royal Artillery (Field) 1941-46; mem. Board of Trade and Ministry of Supply 1946-55; Senior Staff U.K. Atomic Energy Authority 1955-66; Deputy Dir.-Gen., OECD Nuclear Energy

Agency 1966-77, Dir.-Gen. 1977-. *Leisure interests:* golf, opera. *Address:* 38 boulevard Suchet, 75016 Paris, France. *Telephone:* 524-96-60.

WILLIAMS, Jack Kenny, M.A., PH.D.; American university administrator; b. 5 April 1920, Galax, Va.; s. of Floyd W. and Mary J. (Vass) Williams; m. Margaret Pierce 1943; two d. and one foster d.; ed. Emory and Henry Coll. and Emory Univ.; High School teacher, Va. 1940-42; mem. Clemson Univ. Faculty 1947-66; Dean, Graduate School, Clemson Univ. 1957-60, Dean of Faculties 1960-63, Vice-Pres. for Acad. Affairs 1963-66; Commr. Co-ordinating Board, Texas Coll. and Univ. System 1966-68; Vice-Pres. for Academic Affairs, The Univ. of Tennessee System 1968-70; Pres. The Texas A. & M. Univ. and the Texas A. & M. System 1970-77, Chancellor 1977-; Chair. Comm. on Colls., Southern Assn. of Colls. and Schools 1968-76; mem. Board of Trustees, Nat. Coll. Entrance Examination Board 1974-76; mem. Board of Dirs. Anderson-Clayton Co., Diamond-Shamrock Corpn., Campbell-Taggard Inc., Gifford-Hill Co.; Nat. Merit Scholarship Corpn.; mem. U.S.A. Nat. Cttee., World Energy Conf.; mem. Philosophical Soc., Texas; Hon. LL.D. (Univ. of Fla. and Austin Coll.); Hon. Litt.D. (Emory and Henry Coll.). *Publication:* Vogues in Villainy 1959. *Address:* Texas A. & M. University, College Station, Texas 77843; P.O. Box 2876, College Station, Texas 77840, U.S.A. (Home). *Telephone:* 713-845-4331 (Office).

WILLIAMS, John; British guitarist; b. 24 April 1941, Melbourne, Australia; ed. Friern Barnet Grammar School, and Royal Coll. of Music, London; studied guitar with Segovia at Accad. Chigiana, Siena; has toured widely in Europe, America, Japan and Soviet Union; numerous transcriptions and gramophone recordings as solo guitarist and with Philadelphia Orchestra and English Chamber Orchestra; founded The Height Below (ensemble) with Brian Gascoigne. *Address:* c/o Harold Holt Ltd., 122 Wigmore Street, London, W.1, England.

WILLIAMS, John Henry, M.A., PH.D.; American economist; b. 21 June 1887, Ystrad, Wales; s. of John Hamer and Margaret Williams; m. 1st Jessie Monroe 1915 (died 1960), 2nd Katherine McKinstry 1962; two d.; ed. Brown and Harvard Univs.; Instructor in English, Brown Univ. 1912-15; Frederick Sheldon Travelling Fellow, Harvard to Argentina 1917-18; Asst. Chief Latin American Div., U.S. Dept. of Commerce 1918; Asst. Prof. of Econs., Princeton 1919-20; Assoc. Prof. of Banking, Northwestern Univ. 1920-21; Asst. Prof. of Econs., Harvard Univ. 1921-25, Assoc. Prof. 1925-29, Prof. 1929-33; Occasional Consultant U.S. Treasury and State Dept. 1930-40; Del. Agenda Cttee. World Econ. and Monetary Conf. 1932-33; Econ. Adviser, Fed. Reserve Bank of New York 1933-52, Vice-Pres. 1936-47, Econ. Consultant 1956-64; Head, State Dept. Mission to investigate Latin American exchange problems 1934; Occasional Consultant, OEEC, Paris 1948-50; mem. ECA Advisory Cttee. on fiscal and monetary problems 1948-51; Consultant, ECA, Paris, London, Switzerland 1949; Dean, Graduate School of Public Admin., Harvard 1937-47; Nathaniel Ropes Prof. of Political Economy, Harvard 1933-57, Emer. 1957-; William L. Clayton Prof. Int. Econ. Affairs, The Fletcher School of Law and Diplomacy. Tufts Univ. 1957-63, Emer. 1963-; mem. Randall Comm. 1953-54; Hon. Sc.D. *Publications:* Argentine International Trade Under Inconvertible Paper Money (Wells Prize) 1920, Annual Studies of Balance of Payments of U.S. 1919-23, Post-War Monetary Plans and Other Essays 1944, (co-author) Financing American Prosperity 1945, Economic Stability in the Modern World 1952, Economic Stability in a Changing World 1953. *Leisure interests:* reading, sports. *Address:* 318 Clemence Hill, Southbridge, Mass. 01550, U.S.A. *Telephone:* 764-7580.

WILLIAMS, John Peter Rhys, M.B.E., M.R.C.S., L.R.C.P., B.S.; Welsh orthopaedic surgeon and rugby player; b. 2 March 1949, Cardiff; s. of Peter and Margaret Williams; m. Priscilla Williams 1973; one d.; ed. Bridgend Grammar School, Millfield, St. Mary's Hosp. Medical School; British Junior Tennis Champion, Wimbledon 1966; Welsh int. rugby player 1969-79; 48 caps at fullback; on tour with British Lions to New Zealand 1971, South Africa 1974; 8 test matches for British Lions, winning both series; qualified as medical doctor 1973; surgical Registrar, Cardiff Hosp. 1977-; Captain of Welsh rugby team 1978-79. *Publication:* Irish Conference on Sporting Injuries, Dublin (ed.) 1975. *Leisure interests:* sport, music. *Address:* Llansannor Lodge, Llansannor, near Cowbridge, South Glamorgan, Wales.

WILLIAMS, John Richard; American radio broadcaster and politician; b. 29 Oct. 1909, Los Angeles, Calif.; s. of James Morris Williams and Laura LaCossitt; m. Vera May 1942; two s. one d.; ed. High School and Junior Coll.; connected with Radio Station KOY 1929-66; elected Mayor of Phoenix, Ariz. 1955; Gov. of State of Ariz. 1966-75. *Leisure interests:* radio broadcasting, writing. *Address:* 77 East Missouri, Phoenix, Ariz. 85012, U.S.A.

WILLIAMS, Kenneth Rigby, F.I.C.A.; British chartered accountant; b. 25 Aug. 1936, Stockport; m.; one s. one d.; ed. Haywood Grammar School, Manchester and Inst. of Chartered Accountants; articled clerk, Rhodesian audit firm 1959-62; Head Office Accountant, Rhodesian Breweries Ltd. 1962-63, Branch Accountant 1963-65, Chief Accountant 1965-67; Financial Controller, Beer Div., S.A. Breweries 1967-68, subsequently apptd. Group Financial Controller and later Group Commercial Man.; Group Gen. Man. and Dir. S.A. Breweries 1972-. *Leisure interests:* golf, tennis, reading, sailing. *Address:* The South African Breweries Ltd., P.O. Box 1099, 2 Jan Smuts Avenue, Johannesburg, South Africa.

WILLIAMS, Leslie Henry; British company director; b. 26 Jan. 1903, London; s. of Edward Henry and Jessie Williams; m. Alice Helen Harrison 1930; one s.; ed. Highbury County School, and London Univ.; ICI Ltd., Paints Div. 1929-, Dir. 1943-46, Man. Dir. 1946-48, Chair. 1949-56, Dir. ICI Main Board 1957-60, Dep. Chair. ICI Ltd., 1960-67; Dir. British Nylon Spinners Ltd. 1957-64, Ilford Ltd. 1958-67; Chair. ICI Fibres Ltd. 1965-66; Pres. Royal Inst. of Chemistry 1967-70; mem. Monopolies Comm. 1967-73; Hon. F.R.I.C., Hon. D.Sc. (Salford). *Leisure interests:* garden, golf, music. *Address:* Penny Green, West End Lane, Stoke Poges, Bucks., England. *Telephone:* Farnham Common 3423.

WILLIAMS, Nicholas James Donald; British solicitor and business executive; b. 21 Oct. 1925, Calcutta, India; s. of Nicholas T. and Daisy (Hollow) Williams; m. 1st Dawn Hill 1947 (dissolved), 2nd Sheila M. Dalgety 1955; three s. two d.; ed. Rugby School; Partner, Nicholas Williams and Co., London 1950-61; Senior Partner, Surridge and Beecheno, Karachi, Pakistan 1955-61; Legal Adviser, The Burmah Oil Co., London 1961-63, Co-ordinator, Eastern Operations 1963-65, Exec. Dir. 1965-67, Asst. Man. Dir. 1967-69, Man. Dir. 1969-75, also Chief Exec. 1971-75; Man. Dir. and Chief Exec., Don Engineering 1977-. *Leisure interest:* sailing. *Address:* Charlton House, Tetbury, Gloucestershire, England.

WILLIAMS, Nick B.; American newspaper editor; b. 23 Aug. 1906; s. of John F. and Anne M. Williams; m. 1st Elizabeth Rickenbaker 1933 (died 1973), one s. three d.; m. 2nd Barbara Steele 1973; ed. Univ. of the South and Univ. of Texas; Editorial worker, Texas, Tennessee and California 1927-58; Man. Editor Los Angeles Times 1958, Editor 1959-71; Editorial Consultant, Times Mirror Co. 1971-, Whitcom Inc. 1976; Trustee Pitzer Coll., Calif.; D.C.L. (Univ. of the South); Kt. Order of Leopold, Freedoms Foundation Award. *Leisure interests:* art, gardening, fishing. *Address:* 23 Lagunita, Laguna Beach, Calif., U.S.A.

WILLIAMS, Paul Revere; American architect; b. 18 Feb. 1896; ed. Univ. of Southern California, and Beaux Arts Inst. of Design, Los Angeles; Architect 1923-; works include private houses, Los Angeles Superior Court Building, Pearl Harbor Memorial, Honolulu, Franz Hall and Botany Building, Univ. of S. Calif.; Fellow, American Inst. of Architects; Award for Creating Planning, Los Angeles Chamber of Commerce. *Publications:* Small Homes for Tomorrow, New Homes for Today. *Address:* 3440 Wilshire Boulevard, Los Angeles, Calif. 90005 (Office); 1690 Victoria Avenue, Los Angeles, Calif. 90019, U.S.A. (Home).

WILLIAMS, Raymond, LITT.D., M.A.; British writer and university lecturer; b. 31 Aug. 1921, Llanfihangel, Mon.; s. of Henry Joseph and Gwendolene Williams (née Bird); m. Joyce Dalling 1942; two s. one d.; ed. Abergavenny Grammar School, and Trinity Coll., Cambridge; army service 1941-45; Staff Tutor, Oxford Univ. Extra-Mural Delegacy 1946-61; Univ. Lecturer in English Jesus Coll., Cambridge 1961-67, Fellow 1961-; Univ. Reader in Drama, Cambridge 1967-74, Prof. of Drama 1974-; mem. Arts Council 1976-78. *Publications:* Drama from Ibsen to Eliot 1952, Drama in Performance 1954 (revised 1968), Culture and Society 1958, Border Country 1960, The Long Revolution 1961, Communications 1962, Second Generation 1964, Modern Tragedy 1966, Public Enquiry 1967, Drama from Ibsen to Brecht 1968, May Day Manifesto (Editor) 1968, The English Novel from Dickens to Lawrence 1970, Orwell 1971, The Country and the City 1973, Television: Technology and Cultural Form 1974, Keywords 1976, Marxism and Literature 1977, The Volunteers 1978, The Fight for Manod 1979, Politics and Letters (interviews) 1979. *Leisure interest:* gardening. *Address:* Jesus College, Cambridge, England. *Telephone:* Cambridge 68611.

WILLIAMS, Richard Tecwyn, PH.D., D.SC., F.R.S.; British professor of biochemistry; b. 20 Feb. 1909, Abertillery, Mon.; s. of Richard and Mary (née Jones) Williams; m. Josephine Sullivan 1937; two s. three d.; ed. Univ. Coll. of S. Wales and Mon., Cardiff; Research Asst., Physiology Inst., Cardiff 1930-34; Lecturer in Biochem., Univ. of Birmingham 1934-42; Senior Lecturer in Biochem., Univ. of Liverpool 1942-48; Prof. of Biochem. St. Mary's

Hosp. Medical School, London 1949-76, Prof. Emer. 1976-; Deputy Dean 1970-76; Visiting Scientist Nat. Heart Inst., N.I.H., Bethesda, U.S.A. 1956; Visiting Prof. of Toxicology, New York Univ. School of Medicine 1965-66; Visiting Prof. for short periods, Univ. of Ibadan, Nigeria 1969-76; mem. Food Additives and Contaminants Cttee., Ministry of Agric., Fisheries and Food 1964-72; mem. Horserace Anti-Doping Cttee. 1971-; mem. Toxicity Sub-cttee. of Cttee. on Medical Aspects of Chemicals in Food and the Environment, Ministry of Health and Social Security 1972-77; mem. Cttee. on Toxicity of Chemicals in Food, Consumer Products and the Environment, Dept. of Health and Social Security 1978-; Howard Fox Memorial Lecturer, N.Y. Univ. School of Medicine 1969; Visiting Prof., Indian Inst. of Science, Bangalore 1975; Hon. mem. Soc. of Toxicology (U.S.A.) 1966, Pan American Medical Assn. 1969, Société Française de Toxicologie 1976, Mark Twain Soc. (U.S.A.) 1977, Assn. of Official Racing Chemists (U.S.A.) 1977; D. de l'Univ. (h.c.), Univ. of Paris 1966; M.D. (h.c.) Univ. of Tübingen 1972, Hon. D.Sc. (Univ.) Ibadan, Nigeria) 1974, (Wales) 1976; Merit Award, Soc. of Toxicology (U.S.A.) 1968, Medal, Académie de Pharmacie, Paris 1970; CIBA Medal of Biochemical Soc. 1972, 1922 Medal, Univ. of Turku, Finland 1975. *Publications:* Detoxication Mechanisms 1947, 1959, and about 300 scientific papers. *Leisure interests:* gardening, Welsh literature, music. *Leisure interests:* gardening, Welsh literature, music. *Address:* 95 Vernon Drive, Stanmore, Middx., HA7 2BW, England (Home). *Telephone:* 01-427 5554 (Home).

WILLIAMS, Robert Edmond, B.SC.; American steel executive; b. 7 Feb. 1913, San Francisco; s. of George and Ynez (Smith) Williams; m. Ellen Reinecke 1936; two s.; ed. Univ. of California at Berkeley; U.S. Steel Corpn., 1935-60, Vice-Pres. Sales, Nat. Tube Div. 1960-61; Vice-Pres. Sales, Youngstown Sheet and Tube Co. 1961-63, Exec. Vice-Pres. 1963-65, Dir. and mem. Exec. Cttee. April 1964-, Pres. 1965, Chief Exec. Officer 1966-70; Vice-Chair., Chief Admin. Officer, Lykes-Youngstown Corp. 1969-70; Pres. and Chief Exec. Officer GF Business Equipment Inc., Youngstown 1973-; Dir.-Gen. Fireproofing Co., Pittsburgh Nat. Bank, Dollar Savings & Trust Co. (Youngstown), Diamond Shamrock Corpn.; Dir. and mem. Exec. Cttee. American Iron and Steel Inst.; Dir. International Iron and Steel Inst. *Address:* 1359 Virginia Trail, Youngstown, Ohio 44505, U.S.A.

WILLIAMS, Robert Martin, C.B.E., PH.D.; New Zealand mathematician; b. 30 March 1919, Christchurch; s. of Canon Henry Williams; m. Mary Constance Thorpe 1944; one s. two d.; ed. Christ's College, Canterbury Univ., N.Z., St. John's Coll., Cambridge; Mathematician, Radar Development Laboratory, D.S.I.R., N.Z. 1941-44; mem. U.K. Atomic Group in U.S.A. 1944-45; mem. Applied Maths. Laboratory, D.S.I.R. 1949-53, Dir. 1953-62; Commr. State Services Comm. N.Z. 1963-66; Vice-Chancellor Univ. of Otago 1967-73, Australian Nat. Univ. 1973-75; Chair. State Services Comm. 1975-; mem. Int. Statistical Inst.; Hon. LL.D. (Otago). *Publications:* papers on mathematical statistics. *Address:* State Services Commission, P.B. Wellington; 21 Wadestown Road, Wellington, New Zealand (Home).

WILLIAMS, Robley Cook, PH.D.; American biophysicist and educator; b. 13 Oct. 1908, Santa Rosa, Calif.; s. of William Claude Williams and Anna Mae Cook Williams; m. Margery Ufford 1931; one s. one d.; ed. Cornell Univ.; Professor, Univ. of Michigan 1949-50; Prof. of Biophysics, Univ. of Calif., Berkeley 1950-59; Assoc. Dir. of Virus Lab. and Research Biophysicist, Univ. of Calif., Berkeley 1950-76; Prof. of Virology, Univ. of Calif., Berkeley 1959-64, Prof. of Molecular Biology 1964-76, Emer. 1976-; Chair. Dept. of Molecular Biology 1964-69; mem. Nat. Acad. of Sciences; Longstreth Medal of Franklin Inst. 1939, John Scott Award 1954. *Publications:* Numerous scientific publications in fields of physics, astronomy and biophysics. *Leisure interest:* golf. *Address:* Department of Molecular Biology, University of California, Berkeley, Calif. 94720; 1 Arlington Court, Berkeley, Calif. 94707, U.S.A. (Home). *Telephone:* 415-526-2063 (Home).

WILLIAMS, Roger J(ohn), PH.D.; American biochemist; b. 14 Aug. 1893, Ootacumund, Ind.; s. of Robert and Alice Williams; m. 1st Elizabeth Wood 1916 (deceased), 2nd Mabel Hobson 1953; two s. one d.; ed. Univs. of Redlands and Chicago; Research Chemist, Fleischmann Co. 1919-20; Asst. Prof. Univ. of Oregon 1920-21, Assoc. Prof. 1921-27, Prof. 1928-31; Prof. Oregon State Coll. 1932-39; Prof. of Chemistry, Univ. of Texas 1939-71, Prof. Emer. 1971-; Dir. Clayton Foundation Biochemical Inst. Univ. of Texas 1941-63; Research Council Food and Nutrition Board 1949-53; Research Scientist, Clayton Foundation Biochemical Inst., Univ. of Texas 1971-; mem. Nat. Acad. of Sciences, American Chemical Society (Pres. 1957), Biochemical Society of London, etc.; Fellow American Assn. for Advancement of Science; Founding Fellow, Int. Acad. of Preventative Medicine, Foundation for Nutritional Advancement; Hon. D.Sc. (Univ. of Redlands, Columbia Univ., Oregon State Coll.); Mead Johnson Award 1941; Chandler Medal 1942. *Publications:* An Introduction to Organic Chemistry 1927, A Laboratory Manual of Organic Chemistry (with R. Q. Brewster) 1928, An Introduction to Bio-chemistry 1931, Textbook of Biochemistry 1938, What to do about Vitamins 1945, The Human Frontier 1946, Biochemistry of B Vitamins (with others) 1950, Nutrition and Alcoholism 1951, Free and Unequal 1953, Biochemical Individuality 1956, Alcoholism: The Nutritional Approach 1959, Nutrition in a Nutshell 1962, You are Extraordinary 1967, Nutrition Against Disease 1971, Physicians Handbook of Nutritional Science 1975, The Wonderful World Within You; Your Inner Nutritional Environment 1977. *Leisure interests:* writing, fishing, travel. *Address:* The Clayton Foundation Biochemical Institute, The University of Texas, Austin, Texas 78712 (Office); 1604 Gaston Avenue, Austin, Texas, U.S.A. *Telephone:* (512) 471-3591.

WILLIAMS, Rt. Hon. Shirley, P.C., M.A.; British politician; b. 27 July 1930, London; d. of Sir George Catlin (*q.v.*) and the late Vera Brittain; m. Bernard Williams 1955 (divorced 1974); one d.; ed. Summit School, Minn., U.S.A., St. Paul's Girls' School, Somerville Coll., Oxford, and Columbia Univ.; General Sec. Fabian Soc. 1960-64; M.P. for Hitchin 1964-74, for Hertford and Stevenage 1974-79; Parl. Private Sec., Minister of Health 1964-66; Parl. Sec. Minister of Labour 1966-67; Minister of State, Dept. of Education and Science 1967-69; Minister of State, Home Office 1969-70; Opposition Spokesman on Health and Social Security 1970-71, on Home Affairs 1971-73, on Prices and Consumer Affairs 1973-74; Sec. of State for Prices and Consumer Protection 1974-76, for Educ. and Science 1976-79; Paymaster-Gen. April 1976-79; Senior Research Fellow (part-time) of Policy Research Inst. May 1979-; mem. Labour Party Nat. Exec. Cttee. 1970; Visiting Fellow, Nuffield Coll., Oxford 1967-75; Trustee Twentieth Century Fund, U.S.A.; Hon. D.Ed., C.N.A.A.; Hon. Dr.Pol.Econ., Univ. of Leuven, Belgium, Radcliffe Coll., U.S.A. Labour. *Publications:* pamphlets on European Community, and economics of Central Africa; articles and broadcasts. *Leisure interests:* riding, rough walking, music, singing. *Address:* c/o Policy Research Institute, 1-2 Castle Lane, London SW1E 6DR, England.

WILLIAMS, Silvanus Olatunde, B.SC., M.ENG.; Nigerian government official; b. 16 Sept. 1922, Abeokuta, Ogun State; m.; five c.; ed. Methodist Boys' High School, Lagos, Higher Coll., Yaba, Royal Tech. Coll., Glasgow, Scotland, Purdue Univ., Ind., U.S.A.; began career as engineer in Fed. Public Works Dept. (later named Fed. Ministry of Works) 1945; Dir. of Fed. Public Works 1963-66; Perm. Sec., Fed. Ministry of Works and Housing 1966-71, Fed. Ministry of Communications 1971-75; Fed. Commr. for Communications 1975-78, for Labour, Youth and Sports Aug. 1978-; Vice-Pres. Nigeria Olympic Assn. *Leisure interests:* photography, organizing athletics. *Address:* Federal Executive Council, Lagos, Nigeria.

WILLIAMS, Stephen, PH.D.; American professor of anthropology and archaeologist; b. 28 Aug. 1926, Minneapolis, Minn.; s. of Clyde G. and Lois M. (Simmons) Williams; m. Eunice Ford 1962; two s.; ed. Univ. of Michigan and Yale Univ.; Historical and Archaeological Research on Caddo Indians for U.S. Dept. of Justice 1954-55; Research Fellow in N. American Archaeology, Peabody Museum of Archaeology and Ethnology, Harvard Univ. 1955-58; Lecturer in Anthropology, Harvard Univ. 1956-58, Asst. Prof. of Anthropology 1958-62, Assoc. Prof. 1962-67, Prof. of Anthropology 1967-72, Peabody Prof. 1972-, Chair. Dept. of Anthropology 1967-69; mem. of Board of Freshmen Advisers, Harvard Univ. 1959-60, 1961-65; Asst. Curator of N. American Archaeology, Peabody Museum 1957-58, Curator of N. American Archaeology 1962-, Exec. Dir. for Research and Devt., Peabody Museum 1967; Acting Dir., Peabody Museum 1967-69, Dir. 1969-77; Distinguished Fellow School of American Research, Santa Fe 1977-78; Hon. M.A. (Harvard Univ.). *Publications:* numerous articles in journals. *Address:* Peabody Museum of Archaeology and Ethnology, Harvard University, 11 Divinity Avenue, Cambridge, Mass. 02138; 103 Old Colony Road, Wellesley, Mass. 02181, U.S.A. (Home). *Telephone:* 617-495-2248 (Office); 617-235-7588 (Home).

WILLIAMS, Tennessee (Thomas Lanier), A.B.; American writer; b. 26 March 1911; s. of Cornelius Coffin Williams and Edwina (Dakin) Williams; ed. Univs. of Missouri and Iowa, and Washington Univ., St. Louis; awarded Pulitzer Prize 1948 and 1955, New York Drama Critics' Circle Award 1944, 1947, 1955, 1961. *Publications:* plays: Battle of Angels 1940, The Glass Menagerie 1944, You Touched Me (with Donald Windham) 1946, A Streetcar Named Desire 1947, Summer and Smoke 1948, The Rose Tattoo 1951, Camino Real 1953, Cat on a Hot Tin Roof 1955, Orpheus

Descending 1957, Garden District (two plays: Suddenly Last Summer and Something Unspoken) 1958, Sweet Bird of Youth 1959, Period of Adjustment 1960, The Night of the Iguana 1961, The Milk Train Doesn't Stop Here Any More 1962 (Revised version 1963), Slapstick Tragedy 1966, The Two Character Play (U.S. title Outcry) 1967, The Seven Descents of Myrtle 1968, In the Bar of a Tokyo Hotel 1969, Small Craft Warnings 1972, The Red Devil Battery Sign 1974, The Eccentricies of a Nightingale 1976, Crèvecoeur 1978, Vieux carré 1978; screenplays: The Glass Menagerie 1950, A Streetcar Named Desire 1951, The Rose Tattoo (with Gore Vidal) 1955, Baby Doll 1956, Suddenly Last Summer 1959, The Fugitive King (based on Orpheus Descending) 1960, Boom (based on The Milk Train Doesn't Stop Here Any More) 1968; books: 27 Wagons Full of Cotton (one-act plays) 1946, One Arm and Other Stories 1948, The Roman Spring of Mrs. Stone (novel) 1950, Hard Candy: A Book of Stories 1954, In the Winter of Cities (poems) 1956, Three Players of a Summer Game (stories) 1960, The Knightly Quest (stories) 1967, Dragon Country (plays) 1970, Eight Mortal Ladies Possessed (stories) 1974, Moise and the World of Reason (novel) 1975, Memoirs (autobiography) 1975. *Address:* c/o International Creative Management, 40 West 57th Street, New York, N.Y. 10019, U.S.A.

WILLIAMSON, Malcolm Benjamin Graham, C.B.E.; British composer, pianist and organist; b. 21 Nov. 1931, Sydney, N.S.W., Australia; s. of George and Bessie Williamson; m. Dolores Daniel 1960; one s. two d.; ed. Barker Coll., Hornsby, N.S.W., and Sydney Conservatorium of Music; Asst. organist, Farm Street, London 1955-58; Organist, St. Peter's, Limehouse 1958-60; Lecturer in Music, Cen. School of Speech and Drama, London 1961-62; Exec. Cttee., Composers Guild of Great Britain 1964; Composer-in-Residence Westminster Choir Coll., Princeton, N.J. 1970-71; Master of the Queen's Music 1975-; Pres. Royal Philharmonic Orchestra 1977-; Hon. Dr.Mus. (Westminster Choir Coll.) 1971; Sir Arnold Bax Memorial Prize 1963. *Compositions include:* Operas: Our Man in Havana 1963, English Eccentrics 1964, The Happy Prince 1964, Julius Caesar Jones 1965, The Violins of St. Jacques 1966, Dunstan and the Devil 1967, The Growing Castle 1968, Lucky-Peter's Journey 1969, Genesis, The Stone Wall 1971, The Red Sea 1972, The Winter Star 1973, The Valley and the Hill 1977. Ballets: The Display 1964, Sun into Darkness 1966; Orchestral: Piano Concertos 1958, 1960, 1961, Organ Concerto 1961, Violin Concerto 1965, Elevamini (Symphony) 1956, Santiago de Espada (Overture) 1956, Sinfonia Concertante 1961, Sinfonietta 1965, Symphonic Variations 1965, Concerto Grosso 1965, Symphony No. 2 1969, Mass of Christ the King 1977; Chamber: Variations for Cello and Piano 1964, Concerto for Wind Quintet and Two Pianos, Eight Hands 1965, Pas de Quatre (Piano and woodwind) 1967; Organ: Fons Amoris 1957, Symphony 1960, Vision of Christ Phoenix 1961, Elegy JFK 1964, Peace Pieces 1971; The Brilliant and the Dark (operatic sequence) 1966, Two piano sonatas 1967, From a Child's Garden (tenor and piano) 1968, Little Carols of the Saints, Hammarskjöld Portrait 1974, also choral and piano music. *Leisure interest:* literature. *Address:* c/o Josef Weinberger Ltd., 10-16 Rathbone Street, London, W1P 2BJ, England.

WILLIAMSON, Nicol; British actor; b. 14 Sept., 1938, Hamilton, Scotland; m. Jill Townsend 1971 (divorced 1977); one s.; began career with Dundee Repertory Theatre 1960-61; London début at Royal Court, That's Us 1961; joined R.S.C. 1962; *theatre appearances include:* Satin in The Lower Depths 1962, Leantio in Women Beware Women 1962, Kelly's Eye 1963, The Ginger Man 1963, Vladimir in Waiting for Godot 1964, Bill Maitland in Inadmissible Evidence 1964, 1965, 1978, Diary of A Madman 1968, Hamlet 1969, Uncle Vanya 1973, Coriolanus 1973, Malvolio in Twelfth Night 1974, Macbeth 1974; *films include:* Inadmissible Evidence 1967, Laughter in the Dark 1968, The Reckoning 1969, Hamlet 1969, The Jerusalem File 1972, Robin and Marian 1976, The Seven Per Cent Solution 1976; *television includes:* Terrible Jim Fitch, Arturo Ui, and I Know What I Meant; New York Drama Critics Award for Inadmissible Evidence 1965-66; Evening Standard Award for Best Actor, for Hamlet 1969. *Address:* c/o I.F.A., 11-12 Hanover Street, London, W.1., England.

WILLIS, Baron (Life Peer), cr. 1963, of Chislehurst; **Edward (Ted) Willis;** British author; b. 13 Jan. 1918, London; s. of Alfred John and Maria Harriet Willis; m. Audrey Hale 1944; one s. one d.; ed. Downhills Central School; Royal Fusiliers 1940-44; professional writer 1945-; Chair. Screenwriters' Guild 1958-68, Dir. World Wide Pictures 1967-, Capital Radio Ltd.; mem. Advisory Cttee., Nat. Film Devt. Fund 1976-; Labour. *Publications:* plays: Woman in a Dressing Gown 1956, Hot Summer Night 1959, Doctor in the House 1960, Mother 1961, Slow Roll of Drums 1964, Knock on any Door 1964, Queenie 1967, Dead on Saturday 1970; Whatever Happened to Tom Mix (autobiog.) 1970; novels: Death May Surprise Us 1974, The Left-Handed Sleeper 1975, Man-Eater 1976; The Churchill Commando 1977, The Buckingham Palace Connection 1978, The Lions of Judah 1979; *films include:* Blue Lamp, Bitter Harvest, No Trees in the Street, Hunter's Walk 1973; *TV series include:* Dixon of Dock Green, Sergeant Cork, Crime of Passion, Hunter's Walk. *Address:* 5 Shepherds Green, Chislehurst, Kent, England.

WILLIS, Sir Eric Archibald, K.B.E., C.M.G.; Australian politician; b. 15 Jan. 1922, Murwillumbah, N.S.W.; s. of the late Archibald Clarence Willis and of Vida Mabel Willis (née Buttenshaw); m. Norma Dorothy Knight 1951; two s. one d.; ed. Murwillumbah High School, Univ. of Sydney; mem. N.S.W. Legis. Assembly 1950-78, Deputy Leader of Opposition 1959-65; Minister for Labour and Industry 1965-71, Chief Sec. 1965-72, Minister for Tourism 1965-72, for Sport 1971-72, for Educ. 1972-76, Premier and Treas. Jan.-May 1976; Leader of Opposition 1976-77; Exec. Sec. Royal Australian Coll. of Opthalmologists 1978-. *Leisure interests:* reading, swimming. *Address:* 1/51 Upper Pitt Street, Kirribilk, N.S.W. 2061, Australia.

WILLOCH, Kaare Isachsen, CAND. OECON.; Norwegian politician; b. 3 Oct. 1928, Oslo; s. of Haakon Willoch and Agnes Saure; m. Anne Marie Jørgensen 1954; one s. two d.; ed. Ullern Gymnasium and Univ. of Oslo; Sec. Fed. of Norwegian Shipowners 1951-53, Counsellor Fed. of Norwegian Industries 1954-63; mem. Nat. Cttee. Conservative Party 1961-; Sec.-Gen. Conservative Party 1963-65; Asst. Dir. Fed. of Industries 1965-; Minister of Trade and Shipping 1963, 1965-70; mem. Storting 1958-; Chair. World Bank Group 1967; Chair. Conservative Party 1970-74; Chair. Conservative Party Parliamentary Group 1970-; mem. Nordic Council 1970-, Pres. 1973. *Publications:* Personal Savings 1955, Price Policy in Norway (with L. B. Bachke) 1958. *Leisure interests:* skiing, touring. *Address:* Blokkaveien 6B, Oslo 2, Norway.

WILLS, Sir John Spencer, Kt., F.C.I.T.; British business executive; b. 10 Aug. 1904, London; s. of Cedric Spencer Wills and Cécile Charlotte; m. Elizabeth Garcke 1936; two s.; ed. Cleobury Mortimer Coll., Shropshire, and Merchant Taylors' School; Chair. East Yorkshire Motor Services Ltd. 1939-68, Chair. Birmingham & Midland Motor Omnibus Co. Ltd. 1946-68; Dir. British Electric Traction Co. Ltd. 1939-, Man. Dir. 1946-73, Deputy Chair. 1951-66, Chair. 1966-; Chair. Nat. Electric Construction Co. Ltd. 1945-, Electrical and Industrial Investment Co. Ltd. 1946-, The Birmingham and District Investment Trust Ltd. 1946-, Rediffusion Ltd. 1947-78, Rediffusion Television Ltd. 1954-78, Wembley Stadium Ltd. 1965-; Dir. Monotype Corpn. Ltd. 1947-72; Gov. Royal Shakespeare Theatre, Stratford on Avon 1946-74; mem. Severn Barrage Cttee.; Fellow, Chartered Inst. of Transport (Pres. 1950-51), Council of Public Road Transport Assn. (Chair. 1945-46); Hon. mem. of Council, Royal Opera House Soc. 1962-74; Vice-Patron, Theatre Royal Windsor Trust 1965-. *Leisure interests:* complete idleness, formerly: flying, swimming, skiing, tennis, riding, shooting. *Address:* Stratton House, Stratton Street, Piccadilly, London, W1X 6AS; Beech Farm, Battle, Sussex, England. *Telephone:* 01-629 8886.

WILLSON, Francis Michael Glenn, M.A., D.PHIL.; British professor and university administrator; b. 29 Sept. 1924, Carlisle; s. of late Christopher Glenn Willson and Katherine Mattick; m. Jean Carlyle 1945; two d.; ed. Carlisle Grammar School, Univ. of Manchester, Balliol and Nuffield Colls., Oxford; war service in Merchant Navy 1941-42 and R.A.F. 1943-47; seconded to BOAC 1946-47; Research Officer, Royal Inst. of Public Admin. 1953-60; Research Fellow, Nuffield Coll., Oxford 1955-60; Lecturer in Politics, St. Edmund Hall, Oxford 1958-60; Prof. of Govt., Univ. Coll. of Rhodesia and Nyasaland 1961-64, Dean of Social Studies 1962-64; Prof. of Govt. and Politics, Univ. of Calif., Santa Cruz 1965-74, Provost of Stevenson Coll. 1967-74, Vice-Chancellor College and Student Affairs 1973-74; Warden of Goldsmith's Coll. 1974-75; Principal of London Univ. 1975-78; Vice-Chancellor Murdoch Univ., W. Australia. *Publications:* Organization of British Central Government 1914-1956 (with D. N. Chester) 1957, 2nd edn. 1914-1964 1968, Administrators in Action 1961. *Leisure interests:* listening to music, reading. *Address:* Murdoch University, Murdoch, Western Australia 6153.

WILSON, Sir Alan Herries, F.R.S.; British industrial executive; b. 2 July 1906; m. Margaret Monks 1934 (died 1961); two s.; ed. Wallasey Grammar School and Emmanuel Coll., Cambridge; Fellow, Emmanuel Coll. Cambridge 1929-33, Hon. Fellow 1959; Fellow and Lecturer, Trinity Coll. Cambridge 1933-45; Univ. Lecturer in Mathematics, Cambridge 1933-45; joined Courtaulds Ltd. 1945, Man. Dir. 1954, Deputy Chair. 1957-62; Dir. Int. Computers Holdings Ltd. 1962-72; Chair. Cttee. on Coal Derivatives 1959-60, on Problem of Noise 1960-63; Chair. and Dir. Glaxo Group Ltd. 1963-

73; Deputy Chair. Electricity Council 1966-76; mem. Iron and Steel Board 1960-67; Hon. D.Sc. (Oxford and Edinburgh). *Publications:* The Theory of Metals 1936, 1953, Semi-Conductors and Metals 1939, Thermodynamics and Statistical Mechanics 1957. *Address:* 65 Oakleigh Park South, Whetstone, London, N20 9JL, England. *Telephone:* 01-445 3030.

WILSON, Alexander (Sandy) Galbraith; British writer and composer; b. 19 May 1924, Sale, Cheshire; s. of George Wilson and Caroline Humphrey; ed. Harrow School, Oxford Univ. and Old Vic Theatre School; contributed to revues Slings and Arrows, Oranges and Lemons 1948; wrote revues for Watergate Theatre, London, See You Later, See You Again 1951-52; wrote musical The Boy Friend for Players Club Theatre 1953, transferred to Wyndhams Theatre and on Broadway 1954; The Buccaneer 1955, Valmouth London 1958, U.S.A. 1960, Divorce me Darling 1965; Dir. London revival of The Boy Friend 1967; Composed music for As Dorothy Parker Once Said London 1969; songs for B.B.C. television Charley's Aunt 1969; wrote and performed Sandy Wilson Thanks the Ladies (one man show) London 1971; wrote His Monkey Wife London 1971. *Publications:* This is Sylvia 1954, The Poodle from Rome 1962, I Could be Happy (autobiog.) 1975, Ivor 1975, The Roaring Twenties 1977, The Clapham Wonder 1978. *Leisure interests:* cinema, cookery, travel. *Address:* 2 Southwell Gardens, London, S.W.7, England. *Telephone:* 01-373 6172.

WILSON, Angus (Frank Johnstone), C.B.E., B.A., F.R.S.L.; British writer; b. 11 Aug. 1913, Sussex; s. of William Johnstone-Wilson and Maud (née Caney); ed. Westminster School, and Merton Coll., Oxford; Asst. Keeper, Dept. of Printed Books, British Museum 1936-55; full-time writer 1955-; Lecturer, School of English Studies, Univ. of East Anglia 1963-, Prof 1966-78, Emer. 1978-; Ewine Prof. Univ. of Calif 1960, Northcliffe Lecturer Univ. of London 1961, Leslie Stephen Lecturer Cambridge 1963, Beckman Prof. Univ. of Calif. 1967, John Hinkley Prof. Johns Hopkins Univ. 1974, Distinguished Visiting Prof. Univ. of Delaware 1977, Ida Beam Prof. Univ. of Ia. 1978; mem. Arts Council 1967-69; Chair. Nat. Book League 1971-74: Pres. Dickens Fellowship 1974-75; C.Lit. 1972; Hon. D.Litt. (Univ. of Leicester), (Univs. of East Anglia and Liverpool) 1979; Chevalier de l'Ordre des Arts et des Lettres 1972. *Publications:* The Wrong Set 1949, Such Darling Dodos 1950, Hemlock and After 1952, For Whom the Cloche Tolls 1953, Emile Zola 1954, The Mulberry Bush (a play, produced Bristol Old Vic 1955, Royal Court Theatre 1956, published 1956), Anglo-Saxon Attitudes 1956, A Bit off the Map 1957, The Middle Age of Mrs. Eliot 1958, The Old Men at the Zoo 1961, The Wild Garden 1963, Late Call 1964, No Laughing Matter 1967, The World of Charles Dickens 1970, As if by Magic 1973, The Naughty Nineties 1976, The Strange Ride of Rudyard Kipling: His Life and Works 1977; also several (unpublished) plays for television. *Address:* Felsham Woodside, Bradfield St. George, Bury St. Edmunds, Suffolk, England.

WILSON, Sir (Archibald) Duncan, G.C.M.G.; British diplomatist; b. 12 Aug. 1911, Winchester, Hants; s. of Archibald Wilson and Ethel Schuster; m. Elizabeth Fleming 1937; one s. (deceased) two d.; ed. Winchester and Balliol Coll., Oxford; Teacher, Westminster School 1936-37; Asst. Keeper, British Museum 1937-39; Ministry of Economic Warefare 1939-41; Foreign Office 1941-45; Control Comm., Germany 1945-46; Foreign Service 1947-71, Berlin 1947-49, Yugoslavia 1951-53; Dir. of Research and Acting Librarian, Foreign Office 1955-57; Chargé d'Affaires, Peking 1957-59; Fellow, Center of Int. Affairs, Harvard Univ. 1959-60; Asst. Under-Sec. Foreign Office 1960-64; Amb. to Yugoslavia 1964-68, to U.S.S.R. 1968-71; Master, Corpus Christi Coll., Cambridge 1971-. *Publications:* Life and Times of Vuk Karadžić 1970, Leonard Woolf, A Political Biography 1978. *Leisure interests:* music, tennis, golf. *Address:* Corpus Christi College, Cambridge, England.

WILSON, Carroll Louis, S.B.; American scientist; b. 21 Sept. 1910, Rochester, N.Y.; s. of Louis and Edna Wilson; m. Mary Bischoff 1937; one s. three d.; ed. Rochester, N.Y., and Mass. Inst. of Technology; Asst. to Pres., Mass. Inst. of Tech. 1932-37; mem. Nat. Defense Research Cttee., Mission to Great Britain 1941; Man. Instnl. Div., Research Corpn. of New York 1937-43; Senior Liaison Officer 1940-42; Exec. Asst. to the Dir., Office of Scientific Research and Development, Washington, D.C. 1942-46; Sec. Board of Consultants Dept. of State on Int. Control of Atomic Energy 1946; Vice-Pres. and Dir. Nat. Research Corpn. of Boston 1946-47; Gen. Man. U.S. Atomic Energy Comm. 1947-50; Dir. Industrial Dev. Dept. Climax Molybdenum Co. 1951-54; Pres. Climax Uranium Co. 1951-54; Dir. Millipore Filter Co., Boston; Pres. and Gen. Manager Metals & Controls Corpn., Mass. 1956-58; Prof. Mass. Inst. of Tech. (M.I.T.) 1959-; Dir. Rhode Island Hospital Trust Co.; Trustee Rhode Island Hospital, World Peace Foundation (Boston); mem. Rockefeller Brothers Fund Panel on Int. Security 1957-58, Council on Foreign Relations. Dir. 1964-; Vice Chair. 1979-; Dir. M.I.T. Fellows in Africa Program 1960-, A. D. Little Research Inst., Edinburgh 1962-; Chair. OECD Cttee. on Scientific Research 1962-; mem. Expert Advisory Cttee. on Science and Development (ECOSOC) 1964-, Nat. Acad. of Sciences Int. Marine Science Affairs Panel 1967-, Nat. Acad. of Sciences Board on Science and Technology for Int. Devt. 1968-; N.A.S. Marine Science Affairs Panel 1967-69; Chair. World Peace Foundation Boston 1970-; Chair. of Board, Int. Centre for Insect Physiology and Ecology, Nairobi 1970-74; Dir. Study of Critical Environmental Problems 1970-; Dir. Study of Man's Impact on Climate (Stockholm) 1971; Adviser to Sec.-Gen. for UN Conf. on the Human Environment 1971-; OECD Cttee. on Scientific Research 1962-70; mem. Cttee. for Econ. Devt. Environmental Statement 1971; mem. Jury, Environmental Prize, Inst. de la Vie 1972; mem. Exec. Cttee. Club of Rome 1971-76, Trilateral Comm. (N. America, Europe and Japan) 1973-, Comm. on Critical Choices for Americans 1973; Mitsui Prof. in Problems of Contemporary Technology, M.I.T. 1974-; Dir. Workshop on Alt. Energy Strategies 1974-77, World Coal Study 1978-; mem. Cttee. Alfried Krupp von Bohlen und Halbach Prize for Energy Research 1974-(77); Trustee Int. Fed. of Insts. of Advanced Studies (Stockholm) 1972, Pilgrim Soc. (U.S.A.) 1972; Fellow, American Acad. of Arts and Sciences, American Soc. of Mining and Metallurgical Engineers, Royal Swedish Acad. of Engineering Sciences; Hon. O.B.E.; Hon. Sc.D. (Williams Coll.), Hon. D.Eng. (Worcester Polytech. Inst.); Medal for Merit 1948. *Leisure interest:* motor cars. *Address:* 130 Jacob Street, Seekonk, Mass., U.S.A. *Telephone:* 617-336-8615.

WILSON, Sir Charles Haynes, Kt., M.A., LL.D., D.C.L., D.LITT.; British university officer; b. 16 May 1909, Glasgow, Scotland; s. of George Wilson and Florence Hannay; m. Jessie Wilson 1935; one s. two d.; ed. Glasgow Univ. and Oxford Univ.; Fellow and Tutor in Modern History, Corpus Christi Coll., Oxford 1939-52, Junior Proctor 1945; Principal, Univ. Coll. of Leicester 1952-57; Vice-Chancellor, Univ. of Leicester 1957-61; Principal and Vice-Chancellor, Univ. of Glasgow 1961-76; Hon. Fellow, Corpus Christi Coll., Oxford 1963. *Address:* Whinnymuir Dalry, Castle Douglas, DG7 3TT, Scotland. *Telephone:* 064-43-218.

WILSON, Colin Henry; British writer; b. 26 June 1931, Leicester; s. of Arthur Wilson and Annetta Jones; m. 1st Dorothy Troop 1951, one s.; m. 2nd Pamela Stewart 1960, two s. one d.; ed. Gateway Secondary Technical School, Leicester; laboratory asst. 1948-49, civil servant (taxes) 1949-50; R.A.F. 1950, discharged on medical grounds 1950; then navvy, boot and shoe operative, dish washer, plastic moulder; lived Strasbourg 1950, Paris 1953; later factory hand and dish washer; writer 1956-; Writer in Residence, Hollins Coll., Virginia, U.S.A. 1966-67; Visiting Prof., Univ. of Washington 1967-68, Dowling Coll., Majorca 1969, Rugers Univ., N.J. 1974. *Publications include:* philosophy: The Outsider 1956, Religion and the Rebel 1957, The Age of Defeat 1958, The Strength to Dream 1961, Origins of the Sexual Impulse 1963, Beyond the Outsider 1965, Introduction to the New Existentialism 1966; other non-fiction: Encyclopaedia of Murder 1960, Rasputin and the Fall of of the Romanovs 1964, Brandy of the Damned (music essays) 1965, Eagle and Earwig (literary essays) 1965, Sex and the Intelligent Teenager 1966, Voyage to ■ Beginning (autobiography) 1968, Shaw: A Reassessment 1969, A Casebook of Murder 1969, Poetry and Mysticism 1970, The Strange Genius of David Lindsay (with E. H. Visiak) 1970, The Occult 1971, New Pathways in Psychology 1972, Strange Powers 1973, A Book of Booze 1974, The Craft of the Novel 1975, The Geller Phenomenon 1977, Mysteries 1978; novels: Ritual in the Dark 1960, Adrift in Soho 1961, The World of Violence 1963, Man Without ■ Shadow 1963, Necessary Doubt 1964, The Glass Cage 1966, The Mind Parasites 1967, The Philosopher's Stone 1969, The Killer 1970, The God of the Labyrinth 1970, The Black Room 1970, The Schoolgirl Murder Case 1974, The Space Vampires 1976; play: Strindberg 1970. *Leisure interests:* music, mathematics, wine. *Address:* Tetherdown, Trewallock Lane, Gorran Haven, Cornwall, England.

WILSON, David Mackenzie, M.A., LITT.D., F.S.A.; British museum director; b. 30 Oct. 1931, Dacre Banks; s. of Rev. J. Wilson; m. Eva Sjörgren 1955; one s. one d.; ed. Kingswood School, St. John's Coll., Cambridge, Lund Univ., Sweden; Asst. Keeper, The British Museum 1955-64; Reader in Archaeology, Univ. of London 1964-71, Prof. of Medieval Archaeology 1971-76; Dir. British Museum 1977-. *Publications:* The Anglo-Saxons 1960, Catalogue of Anglo-Saxon Metalwork 700-1100 in the British Museum 1964, Viking Art (with O. Klindt-Jensen) 1966, Three Viking Graves in the Isle of Man (with G. Bersu) 1966, The Vikings and their Origins 1970, The Viking Achievement (with P. Foote) 1970, St. Ninian's Isle

and its Treasure (with A. Small and A. C. Thomas) 1973; The Viking Age in the Isle of Man 1974, Civil and Military Engineering in Viking Age. Scandinavia 1978; Editor: The Archaeology of the Anglo-Saxons 1976; many articles and pamphlets. *Address:* The British Museum, London, W.C.1., England; 1 Parliament Lane, Castletown, Isle of Man.

WILSON, Donald M.; American journalist and publishing executive; b. 27 June 1925; m. Susan M. Neuberger 1957; one s. two d.; ed. Yale Univ.; Air Corps Navigator, Second World War; magazine assignments in 35 countries 1951-61; fmr. Far Eastern Corresp., Life magazine, Chief Washington Correspondent 1957-61; Deputy Dir. U.S. Information Agency 1961-65; Gen. Man. Time-Life Int. 1965-68; Assoc. Publisher Life magazine 1968-69; Vice-Pres. Corp. and Public Affairs, Time Inc. 1969-. *Address:* Time Inc., Time and Life Building, Rockefeller Center, New York, N.Y. 10020; 4574 Province Line Road, Princeton, N.J. 08540, U.S.A.

WILSON, Sir Duncan (*see* Sir Archibald Duncan).

WILSON, E(dgar) Bright, PH.D.; American professor of chemistry; b. 18 Dec. 1908, Gallatin, Tenn.; s. of E. Bright Wilson and Alma Lackey; m. 1st Emily Buckingham 1935, 2nd Therese Bremer 1955; four s. two d.; ed. Princeton Univ. and Calif. Inst. of Technology; Teaching Fellow in Chem., Calif. Inst. of Technology 1931-33, Fellow 1933-34; Jr. Fellow, Harvard Univ. 1934-36, Asst. Prof. of Chem. 1936-39, Assoc. Prof. 1939-46, Prof. 1946-47, Theodore William Richards Prof. 1947-; Research Dir. Underwater Explosives Research Laboratory, Woods Hole 1942-44; Chief Div. 2, Nat. Defense Research Cttee. 1944-46; mem. Weapons System Evaluation Group 1952-53; mem. Corp. Oceanographic Inst., Woods Hole; Fulbright Grantee and Guggenheim Fellow, Oxford 1949-50; Dr. h.c. (Univ. of Brussels) 1975, (Univ. of Bologna) 1976, D.Sc. (Dickinson Coll.) 1976; American Chemical Soc. Award in Pure Chem., Debye Award, Norris Award in Teaching of Chem., G. N. Lewis Award, Pauling Award, Rumford Medal; Nat. Medal of Science 1975, Antonio Feltrinelli Award 1976, Ferst Award 1977, Pittsburgh Spectroscopy Award 1978, Plyler Award 1978, Richards Medal 1978, Welch Award 1978. *Publications:* Introduction to Quantum Mechanics with Applications to Chemistry (with Linus Pauling) 1935, An Introduction to Scientific Research 1952, Molecular Vibrations: The Theory of Infra-red and Raman Vibrational Spectra (with P. C. Cross and J. C. Decius) 1955. *Address:* 12 Oxford Street, Cambridge, Mass. 02138, U.S.A.

WILSON, Edward B.; American advertising executive; b. 15 Aug. 1920, Bronx, N.Y.; s. of George Lovett Wilson, Jr. and Sigrid Ducander; m. Mary Abbot Cregier 1948; one s. three d.; ed. Weslayan Univ.; First Lieut. U.S.A.F. 1942-45; Production Asst., Fibre Conduit Co. 1945-46; Advertising Exec., J. Walter Thompson Co. 1946-73, Pres. 1973-74, Chair. 1974-; Dir. Mentholatum Co. 1964-, J. Walter Thompson Co. 1967-, N. Westchester Speech Center 1967-71, Salvation Army (Chicago) 1971-73, American Assn. of Advertising Agencies 1974-; Trustee, Wesleyan Univ. 1974-. *Address:* J. Walter Thompson Co., 420 Lexington Avenue, New York, N.Y. 10017; Harbor Drive, Greenwich, Conn. 06830, U.S.A. (Home).

WILSON, F. Perry; American chemical engineer; b. 19 Dec. 1914, Manson, N.C.; m. Isabel Agemian; one s. one d.; ed. North Carolina State Univ.; joined plastics laboratory, Union Carbide, Bloomfield, N.J. 1941; worked for Union Carbide Canada Ltd. 1949-61, Pres. Plastics Group 1954, later Vice-Pres., Exec. Pres. and Dir., Union Carbide Canada Ltd., Toronto; Vice-Pres., fmr. Union Carbide Int. Co., New York 1961-63, Exec. Vice-Pres. 1963, Pres. 1964-66; Corporate Vice-Pres. and Chair., Board of Union Carbide Eastern Inc. 1966-67; Group Vice-Pres., responsible for chemicals, plastics and olefins 1967-69; Pres. and Dir. Union Carbide Corpn. 1969-71, Chair. of Board and Chief Exec. Officer 1971, Dir. 1971-77, Continental Corpn. 1971-77, R. H. Macy and Co. Inc. 1971-77, Allis-Chambers Corpn. 1971-77, A. O. Smith Corpn. 1971-77, Pan-American Bankshares Inc.; mem. The Business Council, Blind Brook Club, Gulfstream Club. *Address:* 4300 North Ocean Boulevard, Ford Lauderdale, Fla. 33308, U.S.A.

WILSON, Sir Geoffrey Masterman, K.C.B., C.M.G.; British international civil servant; b. 7 April 1910; ed. Manchester Grammar School, Oriel Coll., Oxford, and Middle Temple; practised law — barrister 1935-39; served in British Embassy, Moscow and Russian Dept. of Foreign Office 1940-45; in H.M. Treasury 1947-51, 1953-58; Dir. Colombo Plan Technical Co-operation Bureau 1951-53; Under-Sec. Overseas Finance Div., H.M. Treasury and mem. Man. Board of European Payments Union 1956-58; Financial Attaché, British Embassy, Washington and Alt. Exec. Dir. for U.K., World Bank, Int. Finance Corpn. and Int. Development Assn. 1958-61; Consultant, World Bank Sept.-Dec. 1961; Dir. of Operations for South Asia and the Middle East Dec. 1961-62; Vice-Pres. World Bank 1962-66; Deputy Sec. Ministry of Overseas Devt. 1966-68, Perm. Sec. 1968-71; Deputy Sec.-Gen., Commonwealth Secr. 1971; Chair. Race Relations Board 1971-77, Chair. Oxfam 1977-. *Address:* Hansteads, East Hanney, Oxon, England.

WILSON, Georges; French theatre and film director; b. 16 Oct. 1921; ed. Centre d'Art Dramatique, Paris; acted in two plays in Grenier-Hussenot Company 1947; entered Comédie de l'Ouest 1950; entered Théâtre Nat. Populaire (T.N.P.) 1952, played important roles in almost all the plays; Dir. L'école des femmes, Le client du matin (Théâtre de l'Oeuvre), Un otage (Théâtre de France), La vie de Galilée, Lumières de Bohème, La folle de Chaillot, Le diable et le bon Dieu, Chêne et lapins angora, Les prodiges 1971, Turandot 1971; Dir. of Théâtre Nat. Populaire 1963-72; Officier de l'Ordre du Mérite nat., Chevalier de l'Ordre des Arts et Lettres. *Films directed include:* Une aussi longue absence, La jument verte, Le Caïd, Terrain vague, Lucky Joe, Dragées au poivre, Chair de poule, Max et les ferrailleurs 1970, Blanche 1971, Nous sommes tous en liberté provisoire 1973. *Address:* Moulin de Vilegris, Clairefontaine-en-Yvelines, 78120 Rambouillet, France.

WILSON, Rt. Hon. Sir (James) Harold, K.G., P.C., O.B.E., M.P., F.R.S.A., F.R.S.; British politician; b. 11 March 1916; s. of James Herbert Wilson and late Ethel Wilson; m. Gladys Mary Baldwin 1940; two s.; ed. Milnsbridge Council School, Royds Hall School, Huddersfield, Wirral Grammar School, Cheshire, and Jesus Coll., Oxford; Lecturer in Economics, New Coll., Oxford 1938; Fellow of Univ. Coll., Oxford and research asst. to Sir William (later Lord) Beveridge 1938-39; Economic Asst. to War Cabinet Secr. 1940-41; Mines Dept. (later a part of Ministry of Labour) 1941-43; Dir. Economics and Statistics, Ministry of Fuel and Power 1943-44; M.P. 1945-; Parl. Sec. Ministry of Works 1945-47; Sec. for Overseas Trade March-Oct. 1947; Pres. of Board of Trade Oct. 1947-51 (resigned); mem. Nat. Exec. of Labour Party 1952-76 (Chair. 1961-62), and of Parl. Cttee. 1954-63; Chair. Public Accounts Cttee. of House of Commons 1959-63; Leader of Parl. Labour Party 1963-76; Prime Minister 1964-70; Leader of the Opposition 1970-74; Prime Minister 1974-76; Chair. Cttee. to Review Functioning of Financial Institutions 1976-; Chancellor Univ. of Bradford 1966-; Pres. Royal Statistical Soc. 1972-73, Royal Shakespeare Theatre Co. 1976-, Market Research Soc. 1978-; Trustee, Theatres Trust 1977-; Freeman, City of London 1975; Hon. D.Iur. (Bridgeport, U.S.A.) 1964; Hon. LL.D. (Lancaster) 1964, (Liverpool) 1965, (Nottingham) 1966; Hon. D.C.L. (Oxford) 1965; Hon. D. Tech. (Bradford) 1966; D.Univ. (Essex) 1967; Hon. D.Phil. (Weizman Inst. of Science); Henrietta Szold Award 1976. *Publications:* New Deal for Coal 1945, In Place of Dollars 1952, War on Want, The War on World Poverty 1953, Purpose in Politics 1964, The Relevance of British Socialism 1964, The New Britain (speeches) 1964, Purpose in Power 1966, The Labour Government 1964-1970 1971, The Governance of Britain 1976, A Prime Minister on Prime Ministers 1977. *Address:* House of Commons, London, S.W.1, England.

WILSON, John Tuzo, C.C., O.B.E., PH.D., SC.D., LL.D., F.R.S., F.R.S.C.; Canadian geologist; b. 24 Oct. 1908, Ottawa; s. of John Armitstead Wilson, C.B.E., and Henrietta Loetitia (née Tuzo); m. Isabel Jean Dickson 1938; two d.; ed. Ashbury Coll. School, Ottawa, Univs. of Toronto and Cambridge, and Princeton Univ.; summer field parties 1924-35; Asst. Geologist, Geological Survey of Canada 1936-39; Field Service and Staff (Col.), Canadian Army 1939-46; Prof. of Geophysics, Univ. of Toronto 1946-74, Fellow, Massey Coll., Univ. of Toronto 1962-, Principal, Erindale Coll., Univ. of Toronto 1967-74; Dir.-Gen. Ontario Science Centre 1974-; Pres. Int. Union of Geodesy and Geophysics 1957-60; Trustee, Nat. Museums of Canada 1967-74; Foreign Assoc., U.S. Nat. Acad. of Sciences; Bucher Medal, American Geophysical Union; Logan Medal, Geological Assn. of Canada; Penrose Medal, Geological Soc. of America; Carty Medal, U.S. Nat. Acad. of Sciences; Civic Award of Merit, City of Toronto, Vetlesen Prize, Columbia Univ. *Publications:* Physics and Geology (with J. A. Jacobs and R. D. Russell) 1959, 2nd edn. 1973, One Chinese Moon 1959, IGY: Year of the New Moons 1961, Continents Adrift (Editor) 1973, Unglazed China 1973, Continents Adrift and Continents Aground (Editor) 1976; more than 100 scientific papers. *Leisure interests:* visits to 200 univs. and 100 countries, North Pole to Antarctica, walking and sailing the Great Lakes in a Hong Kong junk. *Address:* 27 Pricefield Road, Toronto, Ont., M4W IZ8, Canada.

WILSON, Sir (Leslie) Hugh, Kt., O.B.E., R.I.B.A., M.R.T.P.I.; British architect and town planner; b. 1 May 1913, London; s. of Frederick C. Wilson and Ethel A. Hughes; m. Monica Chrysavye Nomico (died 1966) 1938; one s. two d.; ed. Haberdashers' Aske's School; Asst. Architect in private practice 1933-39; Asst. Architect, Canterbury 1939-45; City Architect, Planning Officer 1945-56; Chief

Architect, Planning Officer, Cumbernauld New Town 1956-62: Partner, Hugh Wilson and Lewis Womersley 1962-. *Leisure interests:* travel, music. *Address:* 26 Charlotte Street, London, W1P 2BQ (Office); Kings Well, Heath Street, Hampstead, London, NW3 1EN, England (Home). *Telephone:* 01-580 6095 (Office); 01-435 3637 (Home).

WILSON, Gen. Louis Hugh, B.A.; American marine corps officer; b. 11 Feb. 1920, Brandon, Miss.; s. of Louis and Bertha (née Buchanon) Wilson; m. Jane Clark 1944; one d.; ed. Millsaps Coll.; enlisted in Marine Corps Reserve 1941, Second Lieut. 1941, 9th Marine Regt., San Diego, Guadalcanal, Efate, Bougainville; Capt. 1943; participated in assault on Guam 1944; Company C.O., Camp Pendleton 1944; Detachment Commdr., Washington, D.C. 1944-46; Dean, later Asst. Dir. Marine Corps Inst., later ADC to Commdg. Gen. of Fleet Marine Force, Pacific; Recruiting Officer, N.Y.; Lieut.-Col. 1951; exec. posts at Basic School, Quantico, Va.; C.O., Camp Barrett 1951-54; with 1st Marine Div. as Asst. G-3 in Korea 1954-55, C.O. in U.S.A. 1955-56; Head of Operations Section, G-3 Div. at HQ Marine Corps 1956-68; C.O., Test and Training Regt., then of Basic School, Quantico 1958-61; Joint Plans Co-ordinator to Deputy Chief of Staff, HQ Marine Corps 1962-65; Asst. Chief of Staff, G-3 1st Marine Div., Repub. of Viet-Nam 1965; Command, 6th Marine Corps District, Atlanta, Ga. 1966; Brig.-Gen. 1966; Legislative Asst. to Commdt. of Marine Corps 1967-68; Chief of Staff, HQ Fleet Marine Force, Pacific 1968-70; Maj.-Gen. 1970; Command, 1st Marine Amphibious Force, 3rd Marine Div., Okinawa 1970; Deputy for Educ. Dir. of Educ. Centre, Quantico 1971-72; Lieut.-Gen. 1972; Command, Fleet Marine Force, Pacific 1972-75; Commdt. Marine Corps July 1975; Chair. Board of Mans. Navy Relief Soc. July 1978; mem. Board Dirs. Unifirst Fed. Savings and Loan Assen., Jackson, Miss. April 1978-; designated mem. Joint Chiefs of Staff Oct 1978-, American Battle Monuments Comm. Nov. 1978-; Hon. LL.D. 1976; Hon. D.Hum. 1978; Medal of Honor 1944, Legion of Merit with Combat V and 2 Gold Stars, Purple Heart with 2 Stars, Cross of Gallantry with Gold Star (Repub. of Viet-Nam) 1965, Order of Nat. Security Merit (Repub. of Korea), GUK-SEON Medal, Commdr., Legion of Honour (Philippines), Outstanding American Award 1975, Int. Order of Merit 1976, Spanish Grand Cross of Naval Merit 1977, Order of Nat. Security Merit, Tong-Il Medal (Korea) 1977, Distinguished American Award 1977, Def. D.S.M. *Address:* United States Marine Corps., Department of the Navy, Washington, D.C. 20380, U.S.A.

WILSON, Olin C., PH.D.; American astronomer; b. 13 Jan. 1909, San Francisco, Calif.; s. of Olin and Sophie Wilson; m. Katherine E. Johnson 1943; one s. one d.; ed. Univ. of California (Berkeley), and Calif. Inst. of Technology; Asst. Mount Wilson Observatory 1931-36, Asst. Astronomer 1936-50, Astronomer, Mount Wilson and Palomar Observatories 1950-75 (retd.); mem. Nat. Acad. of Sciences. *Publications:* Numerous research papers, chiefly in stellar and nebular spectroscopy. *Leisure interests:* reading, hiking. *Address:* 1754 Locust Street, Pasadena, Calif. 91106, U.S.A. (Home). *Telephone:* 577-1122 (Office); 796-6436 (Home).

WILSON, Perry William, PH.D.; American professor of bacteriology; b. 25 Nov. 1902, Bonanza, Ark.; s. of Commodore Lawson Wilson and Frankie Ellen Smith; m. Helen E. Hansel 1929; one s. one d.; ed. Rose Polytechnic and Univ. of Wisconsin; Analytical Chemist, Commercial Solvent Corpn. 1920-22, Research Chemist 1924-25; Asst. Prof. of Bacteriology, Univ. of Wis. 1934-38, Assoc. Prof. 1938-43, Prof. 1943-75, Emer. 1975-; with Consultant Fed. Security Agency 1943-44; Editor Bacteriological Reviews 1952-57; Pres. American Soc. for Microbiology 1957; Guggenheim Fellow, Cambridge Univ. and Helsinki 1936; mem. Nat. Acad. of Sciences; Pasteur Award of Soc. of Illinois Bacteriologists 1955. *Publications:* Biochemistry of Symbiotic N-fixation 1940, Respiratory Enzymes (Editor) 1942, Bacterial Physiology (Editor and Author) 1951; and review articles and scientific papers on biological nitrogen. *Leisure interest:* gardening. *Address:* 6 Whitcomb Circle, Madison, Wis. 53711, U.S.A.

WILSON, Peter Cecil, C.B.E.; British art auctioneer; b. 8 March 1913; ed. Eton Coll., and New Coll., Oxford; Dir. Sotheby and Co. London 1938-, Chair. 1958-; Chair. Parke-Bernet, New York 1964-. *Address:* 4 Green Street, London, W.1, England.

WILSON, Ralph Frederick, O.B.E., M.COM.; New Zealand political executive and economist (retd.); b. 21 Sept. 1912, Invercargill, New Zealand; s. of F.R. Wilson; m. Lillias Dever 1938; two s. one d.; ed. Otago Boys' High School and Univ. of Otago; Asst. Sec. Bureau of Industry 1938; Private Sec. Minister of Supply and Industries and Commerce 1941-47; Sec. N.Z. Board of Trade 1950-54; Sec. N.Z. Retailers' Fed. 1954-59; Gen. Dir. N.Z. Nat. Party 1959-73; Economist, M.Y. Walls and Assocs. 1973-78. *Leisure interests:* lawn bowls, golf, wood sculpture. *Address:* Iaotea Road, Raumati Beach, Wellington, New Zealand.

WILSON, Richard Lawson; American journalist; b. 3 Sept. 1905, Galesburg, Ill.; s. of Frank and Emily Wilson; m. Katherine Young Macy 1928; two d.; ed. Iowa State Coll., and State Univ.; Reporter, Register, Des Moines 1926-39, St. Louis Globe-Democrat 1929-30; City Editor Register, Des Moines 1930-33, Washington D.C. Corresp. Des Moines Register and Tribune 1933-; Washington Corresp. Minneapolis Star and Tribune 1938-43; Chief Washington Bureau, Cowles Publications, including Look Magazine 1938-70; Pres. National Press Club 1940; Pres. Nat. Press Building Corpn. 1962-72; Pulitzer Prize (for Distinguished Reporting of Nat. Affairs) 1954; Headliner Award for Magazine Reporting 1954; Special Citation Raymond Clapper Award 1958; Centennial Award Iowa State Coll. 1958; author of commentary for Setting the Course, the major policy statements of Pres. Nixon's first year 1970 and of second volume, A New Road for America 1972; Hon. LL.D. (Drake Univ.) 1956; Hone. D.Litt. (Iowa Wesleyan Coll.); Golden Plate Award, American Acad. of Achievement. *Address:* 952 National Press Building, Washington, D.C. 20045 (Office); 2918 Garfield Street, N.W., Washington, D.C. 20008, U.S.A. (Home). *Telephone:* 347-9111 (Office).

WILSON, Robert Rathbun, PH.D.; American professor of physics; b. 4 March 1914, Frontier, Wyo.; s. of Platt E. Wilson and Edith Rathbun; m. Jane Inez Scheyer 1940; three s.; ed. Univ. of California at Berkeley; Instructor, then Asst. Prof. and Head of Isotron Devt. Project, Princeton Univ. 1940-43; Leader Cyclotron Group, then Head of Experimental Research Div., Manhattan Project, Los Alamos, N.M. 1943-46; Assoc. Prof. of Physics Harvard Univ. 1946-47; Prof. of Physics and Dir. Lab. of Nuclear Studies, Cornell Univ. 1947-67; Guggenheim Fellowship 1955-56, 1961-62; Exchange Prof. Univ. of Paris 1954-55; Fulbright Fellowship, Rome 1961-62; Dir. Fermi Nat. Accelerator Laboratory, Batavia, Ill. 1967-78; Peter B. Ritzma Prof. Univ. of Chicago 1978-; mem. Fed. of American Scientists (first Chair.), Nat. Acad. of Sciences, American Physical Soc., A.A.A.S., American Philosophical Soc.; Hon. Sc. D. (Univ. of Bonn) 1978; Elliot Cresson Medal 1964, Nat. Medal of Science 1973. *Address:* Fermi National Accelerator Laboratory, P.O. Box 500, Batavia, Ill. 60510; 5825 Dorchester, Chicago, IU. 60637, U.S.A. (Home).

WILSON, Robert Woodrow, PH.D.; American radio astronomer; b. 10 Jan. 1936, Houston; s. of Ralph Woodrow Wilson, and Fannie May (née Willis) Wilson; m. Elizabeth Rhoads Sawin 1958; two s. one d.; ed. Rice Univ., Calif. Inst. of Tech.; mem. of Technical Staff, Bell Telephone Labs. Holmdel, N.J. 1963-76, Head of Radio Physics Research Dept. 1976-; Henry Draper Award 1977; Herschel Award 1977; Nobel Prize For Physics 1978. *Publications:* numerous articles in scientific journals. *Leisure interests:* running, skiing, playing piano. *Address:* 20 Spring Valley Drive, Holmdel, N.J. 07733, U.S.A. *Telephone:* 201-946-8518.

WILSON, Rt. Rev. Sir Roger Plumpton, K.C.V.O., M.A., D.D.; British ecclesiastic; b. 3 Aug. 1905, Manchester; s. of Canon Clifford Plumpton and Hester Marion (Wansey) Wilson; m. Mabel Joyce Avery 1935; two s. one d.; ed. Winchester Coll., and Keble Coll., Oxford; Classical Master Shrewsbury School 1928-30 and 1932-34, St. Andrew's, Grahamstown, S. Africa 1930-32; ordained Deacon 1935; Curate St. Paul's Liverpool 1935-38; Curate St. John's, Westminster 1938-39; Vicar of South Shore, Blackpool 1939-45, Radcliffe-on-Trent, Notts. 1945-49; Archdeacon of Nottingham 1945-49; Bishop of Wakefield 1949-58; Bishop of Chichester 1958-74; Clerk of the Closet to the Queen 1963-75; mem. of Presidium of the Conf. of European Churches 1967-74. *Address:* Kingsett, Wrington, Bristol, BS18 7NH, England.

WILSON, Sir Roland, K.B.E., D.PHIL., PH.D.; Australian economist and company director; b. 7 April 1904, Ulverstone, Tasmania; s. of Thomas and Mabel (née Inglis) Wilson; m. 1st Valeska Thompson 1930 (died 1971), 2nd Joyce Clarice Chivers 1975; ed. Univs. of Tasmania, Oxford and Chicago; Lecturer in Economics Tasmania Univ. 1930-32; Economist in Commonwealth Statistician's Office 1932-35. Commonwealth Statistician and Econ. Adviser to Treasury 1936-40 and 1946-51; Sec. Commonwealth Dept. of Labour and Nat. Service 1941-46; Chair. UN Economic and Employment Comm. 1948-51; Sec. to the Treasury 1951-66; Chair. Commonwealth Banking Corpn. 1966-75, Qantas Airways, Qantas-Wentworth Hotel 1966-73; Dir. M.L.C. Assurance Co. Ltd.; Hon. Fellow, The Acad. of Social Sciences in Australia 1972; Hon. LL.D. (Univ. of Tasmania). *Publications:* Capital Imports and the Terms of Trade 1931, Public and Private Investment in Australia 1939, Facts

and Fancies of Productivity 1946. *Leisure interests:* cabinet-making, engineering. *Address:* 64 Empire Circuit, Forrest, Canberra, A.C.T. 2603. Australia. *Telephone:* 73-1848.

WILSON, Stanley John, F.C.I.S.; South African oil executive; b. 23 Oct. 1921, Johannesburg; s. of Joseph Wilson and Jessie Cormack; m. Molly Ann Clarkson 1952; two step s.; ed. King Edward VII School, Johannesburg, Witwatersrand Univ.; posts held 1945-73: Chartered Accountant, Savory & Dickinson; Sec. and Sales Man., Rhodesian Timber Holdings; Chair. and Chief Exec. for S. Africa, Vacuum Oil Co.; Regional Vice-Pres. for S. and E. Africa, Mobil Petroleum; Pres. Mobil Sekiyu; Pres. Mobil Europe Inc. 1973-75; Pres. Mobil East Inc. 1975-; Man. Dir. The Burmah Oil Co. Ltd.; Underwriting mem. Lloyds; Assoc., Inst. of Cost and Management Accountants, Soc. of Incorporated Accountants and Auditors; Wallace Memorial Prize, England. *Leisure interests:* golf, shooting, fishing. *Address:* Burmah House, Pipers Way, Swindon, Wilts., SN3 1RE; Leigh Hill, Savernake, near Marlborough, Wilts., SN8 3BH, England (Home). *Telephone:* Swindon 30151 (Office); Burbage 810230 (Home).

WILSON, T(hornton Arnold), M.SC.; American aircraft company executive; b. 8 Feb. 1921, Sikeston, Mo.; m. Grace Miller; three c.; ed. Iowa State Coll. and Calif. Inst. of Technology; Draughtsman on military transport version of B-29, The Boeing Co. 1943, worked on B-47 bomber programme, then became Project Engineer for B-52; Leader of Boeing's contribution to Int. Continental Ballistic Missile Program 1960; Vice-Pres. and Head of Corporate H.Q.'s Operations and Planning 1964, Exec. Vice-Pres. 1966, Pres. and Chief Exec. Officer April 1969-72, Chair. of Board, Chief Exec. Officer Sept. 1972-; Sloan Fellow Mass. Inst. of Technology 1952; mem. Corpn. of Mass. Inst. of Technology, Board of Govs. of Iowa State Univ.; Board of Dirs. of Seattle-First Nat. Bank; Fellow American Inst. of Aeronautics and Astronautics. *Leisure interests:* Shoot pool, bee-keeping, swimming. *Address:* The Boeing Company, P.O. Box 3707, Seattle, Wash. 98124, U.S.A. *Telephone:* 206-655-6707.

WILSON, William Douglas, B.A., LL.B., F.R.S.A.; South African lawyer and business executive; b. 13 July 1915, Johannesburg; s. of Douglas and Jessie Frances Wilson; m. Beatrice Helen Buchanan 1947; one s. two d.; ed. St. John's Coll., Johannesburg, Michaelhouse, Natal, Cambridge Univ.; called to the Bar (Middle Temple), London; Advocate, Supreme Court of S.A. 1938; served World War II with 1st S.A. Div. and British Mil. Mission to Yugoslavia 1940-45, Lieut-Col., despatches; practised at S.A. Bar 1938-40, 1945-46; joined Anglo American Corpn., Johannesburg 1946, Dir. 1954-57, Man. Dir. 1957-64; Deputy Chair. and Man. Dir. Charter Consolidated, London 1965-68; Deputy Chair. Anglo American Corpn. of S.A. 1970-75; Dir. Anglo American, Charter Consolidated, and others; Pres. Minorco 1975-; Hon. LL.D. (Witwatersrand Univ.). *Address:* Anglo American Corporation of South Africa Ltd., 44 Main Street, Johannesburg; Hume Road, Dunkeld West, Johannesburg, South Africa (Home). *Telephone:* 838-8111 (Office).

WILTON, Sir (Arthur) John, C.M.G., M.C., M.A.; British diplomatist; b. 21 Oct. 1921, London; ed. Wanstead High School and St. John's Coll., Oxford; Open Scholarship, St. John's Coll. 1941; commissioned Royal Ulster Rifles 1942, served with Irish Brigade in N. Africa, Italy and Austria 1943-46 (mentioned in Despatches 1945); H.M. Diplomatic Service 1947-; served Lebanon, Egypt, Gulf Sheikhdoms, Romania, Aden, Yugoslavia; Dir. Middle East Centre for Arab Studies 1960-65; Amb. to Kuwait 1970-74; Asst. Under-Sec., FCO 1974-76; Amb. to Saudi Arabia 1976-. *Address:* British Embassy in Jeddah, c/o Foreign and Commonwealth Office, King Charles Street, London, SW1A 2AH, England. *Telephone:* Jedda 52544 (British Embassy).

WIN MAUNG, U, B.A.; Burmese politician; b. 1916; ed. Judson Coll., Rangoon; joined Burmah Oil Co. after leaving coll.; then entered govt. dept.; joined Army as 2nd Lieut, 1940; during Second World War took active part in resistance movement of Anti-Fascist Organization; went to India, where he received training in tactics of military and guerrilla warfare at Mil. Coll., Calcutta and Mil. Camp, Colombo 1944; rejoined guerrilla forces in Burma 1945; Vice-Pres. Karen Youth Organization and Ed. Taing Yin Tha 1945; mem. Constituent Assembly 1947; Minister for Industry and Labour 1947, of Transport and Communications 1949; later Minister for Port, Marine, Civil Aviation and Coastal Shipping; mem. Burmese parl. for Maubin South (Karen) 1951-55 and 1956-57; Pres. of the Union of Burma 1957-62; detained after coup d'état March 1962-Oct. 1967. *Address:* Rangoon, Burma.

WINCKLER, Jean-Claude Stéphane, L. EN D.; French diplomatist; b. 8 Dec. 1913, Venice, Italy; s. of Henri and Marguérite (née Luigi-Phillip) Winckler; m. Elisabeth Lascelles 1939; five s.; ed. Lycée de Longchamps and Faculté de Droit de Bordeaux; entered foreign service 1938; posts in Barcelona 1938-39, Tunis 1939-42, Washington 1945-49, Venice 1949-50, Rome 1950-59; Tech. Counsellor, Office of Sec. of State in charge of Moroccan and Tunisian Affairs 1957, First Counsellor Washington 1959-62; Dir. du Cabinet of Sec. of State for Foreign Affairs 1962-63; Minister Berlin 1963; Minister-Counsellor and Chargé d'affaires Rabat 1967-70; Amb. to Denmark 1970-72, to Argentina 1972-76, to India 1976-; Croix de guerre, Officer de la Légion d'honneur. *Address:* French Embassy, 2 Aurangzeb Road, New Delhi, India; 36 rue de Varenne, 75007 Paris, France (Home).

WINCKLER, Karl von, DR. RER. POL.; German and Austrian businessman; b. 8 Dec. 1912, Stainach (Steiermark); s. of Carl and Johanna (née Stögmüller) von Winckler; m. 1st Gertrud Dangl 1939 (died 1967), one s. one d.; m. 2nd Ruth Fehling 1968; ed. Univ. of Vienna; Scientific Asst., Zweckverband Warenhäuser und Einheitspreisgeschäfte, Berlin 1937-38; Private Sec. to Graf Nikolaus von Ballestrem, Gleiwitz 1938-45; Man. Dir. Österreichische Kontor-GmbH Graz, Vienna, Salzburg 1945-52; Deputy Dir. Buderus'sche Eisenwerke, Wetzlar 1952-58, mem. Man. Board 1958-, Chair. 1967; Chair. Advisory Board Burger Eisenwerke AG, Burg/Dillkreis, Edelstahlweke Buderus AG, Wetzlar, Hessische Berg- und Hüttenwerke AG, Wetzlar, Metallhüttenwerke Lübeck GmbH, Lübeck, Omniplast GmbH & Co. KG, Ehringshausen; Deputy Chair. Tiroler Röhren- und Metallwerke AG, Solbad Hall; official of several other companies; mem. Man. Board, Deutsche Handelskammer in Österreich; Pres. Admin. Board Soc. of Friends and Patrons of Univ. of Giessen; Ehrensenator of Hochschule für Welthandel, Vienna, and of Univ. of Giessen; Companion Teutonic Order; Grosses Goldenes Ehrenzeichen des Landes Steiermark 1972; Grand Officer Order of Merit of Sovereign Mil. Order of Malta 1972; Commdr. of German Order of Merit 1973. *Leisure interests:* hunting, classical music. *Address:* 633 Wetzlar, Am Feldkreuz 14, Federal Republic of Germany. *Telephone:* 73-451.

WINDELEN, Heinrich; German politician and businessman; b. 25 June 1921, Bolkenhain, Silesia (now part of Poland); s. of Engelbert and Anna (née von den Driesch) Windelen; m. Ingeborg Kreutzer 1954; one s. three d.; ed. in Striegau and Univ. of Breslau; served in war 1941-45; mem. Christian Democratic Union (CDU) 1946-; mem. Bundestag 1957-; Pres. Deutsche Stiftung für europäische Friedensfragen 1966-; Minister for Refugees, Expellees and War Veterans Feb. 1969-Oct. 1969; Deputy Chair. CDU/CSU Parl. Group 1969; Chair. CDU, Westphalia 1971-77, Budget-Comm. Bundestag 1978-; mem. Advisory Council, Westdeutscher Rundfunk 1971-, Advisory Council Deutsche Bundespost 1977-; Grosses Verdienstkreuz mit Stern 1977. *Address:* 441 Warendorf, Hermannstrasse 1, Federal Republic of Germany. *Telephone:* 02581-3522.

WINDEYER, Sir Brian Wellingham, Kt., F.R.C.P., F.R.C.S., F.R.C.R., F.R.S.M.; British university administrator; b. 7 Feb. 1904, Sydney, Australia; s. of Richard Windeyer, K.C. and Mabel Fuller Windeyer; m. 1st Joyce Ziele Russell 1928, one s. one d.; m. 2nd Elspeth Anne Bowrey 1948, one s. two d.; ed. Sydney Church of England Grammar School and Univ. of Sydney; Middlesex Hospital and Medical School 1931-69; Prof. of Radiology, Univ. of London 1942-69, Vice-Chancellor 1969-72; Consultant Advisor in Radiotherapy, Min. of Health 1948-72; mem. Clinical Research Board 1954-62, Chair. 1968-72; mem. Medical Research Council 1958-62, 1968-72; Chair. Radiological Protection Board; Dean, Middx. Hosp. Medical School 1954-67; Dean, Faculty of Medicine, Univ. of London 1964-68; Chair., Academic Dir. Radiotherapy Dept. Mount Vernon Hospital 1945-69; Chair. Inst. of Educ., Univ. of London, Kennedy Inst. of Rheumatism, Royal Surgical Aid Soc. Council, Royal Soc. of Arts 1973, Council, Westfield Coll., London Univ.; Skinner Lecturer, Knox Lecturer, Faculty of Radiologists; Pres. Faculty of Radiologists 1949-52; Pres. Section of Radiology, Royal Soc. of Medicine 1967-68, of Section of Medical Educ.; mem. Royal Comm. on Medical Educ.; Soc. of Apothecaries of London, mem. of Court, Junior Warden 1970-71, Senior Warden 1971-72, Master 1972-73; Hon. F.R.A.C.S., F.R.A.C.R., F.A.C.R.; Hon. D.Sc. (British Columbia, Wales, Cambridge), LL.D. (Glasgow). *Publications:* British Practice in Radiotherapy (co-editor) 1955; articles on cancer and radiotherapy. *Leisure interests:* gardening, golf. *Address:* Moreton Gap, Thame Park Road, Thame, Oxon., England. *Telephone:* Thame 2371 (Home).

WINDHAM, Sir Ralph, Kt., M.A., LL.B.; British judge; b. 25 March 1905, Wawne, E. Yorks.; s. of Ashe Windham and Cora Middleton; m. Kathleen Fitz-Herbert 1946; two s. two d.; ed. Wellington Coll., Berks., and Trinity Coll., Cambridge; called to Lincoln's Inn Bar 1930; Legal Draftsman, Palestine 1935, District Court Judge 1942; Puisne Judge, Supreme Court, Ceylon 1947, Kenya 1950; Chief Justice, Zanzibar 1955-59; Judge of Court of Appeal for Eastern

Africa 1959-60; Chief Justice, Tanganyika 1960-64, of Tanzania 1964-65; Commr. on Foreign Compensation Comm. 1965-77, Vice-Chair. 1969-72, Chair. 1972-77. *Leisure interests:* music, genealogy, tennis. *Address:* Hook's Cottage, Kingscote, nr. Tetbury, Glos., England. *Telephone:* Uley 461.

WINDLE, William F., PH.D., SC.D.; American anatomist and neurologist; b. 10 Oct. 1898, Huntingdon, Ind.; m. Ella Howell 1923; one s. one d.; ed. Denison Univ., Northwestern Univ., Medical and Graduate Schools; Instructor, later Asst. and Assoc. Prof. of Anatomy, Northwestern Univ. 1923-35; Prof. of Microscopic Anatomy, Northwestern Univ. Medical School 1935-42; Prof. of Neurology and Dir. Inst. of Neurology 1942-46; Prof. of Anatomy and Chair. of Dept., Univ. of Washington (Seattle) 1946-47, Univ. of Pa. 1947-51; Scientific Dir. Baxter Laboratories, Morton Grove (Ill.) 1951-54; Chief, Neuroanatomical Sciences Laboratory, Nat. Inst. of Neurological Diseases and Blindness (Nat. Insts. of Health) 1954-60, Asst. Dir. 1960-61; Chief, Laboratory of Perinatal Physiology (Nat. Insts. of Health) San Juan, Puerto Rico 1961-64; Hon. Prof. Anatomy, Univ. of Puerto Rico 1962-64; Research Prof. and Dir. of Research, Inst. of Physical and Medical Rehabiliation, New York. Univ. Medical Center 1964-71, Prof. Emer. 1971-; research prof. Denison Univ., Granville 1971-; Hon. mem. Faculty of Medicine, Univ. of Chile; Symposia in Neuroanatomical Sciences 1954-64; Editor-in-Chief Experimental Neurology 1959-; mem. Harvey Soc.; War—Navy Award 1944, Sesquicentennial Medal, Univ. of Louisville 1948, Max Weinstein Award 1957, Albert Lasker Basic Medical Science Award 1968. *Publications:* An Outline and Laboratory Guide to Neurology 1939, Physiology of the Fetus 1940, Textbook of Histology 1st edn. 1949, 2nd 1953, 3rd 1960, Asphyxia Neonatorium 1950, Fetal Physiology 1971. *Address:* 229 Cherry Street, Granville, Ohio 43023, U.S.A.

WINDLESHAM, 3rd Baron: **David James George Hennessy,** P.C.; British politician; b. 28 Jan. 1932; s. of 2nd Baron Windlesham and Angela Mary (Duggan); m. Prudence Glynn 1965; one s. one d.; ed. Ampleforth, Trinity Coll., Oxford; Chair. of Bow Group 1959-60, 1962-63; mem. Westminister City Council 1958-62; Dir. Rediffusion Television 1965-67; Man. Dir. Grampian Television 1967-70; Minister of State Home Office 1970-72; Minister of State Northern Ireland 1972-73; Lord Privy Seal, Leader House of Lords 1973-74; Opposition Leader, House of Lords March-Oct. 1974; Joint Man. Dir. ATV Network 1974-75, Man. Dir. 1975-; Chair. Independent Television Cos. Assn. Council 1976-78; Deputy Chair. Queen's Silver Jubilee Appeal 1976-77, and Trust 1977-; Trustee Charities Aid Foundation 1977-, Vice Chair. 1978-. *Publications:* Communication and Political Power 1966, Politics in Practice 1975. *Address:* House of Lords, London, S.W.1. England.

WINGATE, Henry Smith, B.A.; American mining executive; b. 8 Oct. 1905, Talas, Turkey; s. of Henry and Jane Wingate; m. Ardis Swenson 1929; two s.; ed. Carleton Coll., and Univ. of Michigan; Assoc. Sullivan and Cromwell 1929-35; Asst. Sec. The Int. Nickel Co. Inc. 1935-39; Sec. The Int. Nickel Co. of Canada Ltd. 1939-52, Dir. 1942-, Vice-Pres. 1949-52; Pres. The Int. Nickel Co. of Canada Ltd., The Int. Nickel Co. Inc. 1954-60, Chair. 1960-72, Dir. and Chair. Advisory Cttee. 1972-75; Dir. of numerous companies and orgs. including: Canadian Pacific Ltd., J.P. Morgan & Co. Inc., Morgan Guaranty Trust Co. of New York, U.S. Steel Corpn., American Standard Inc., The People's Symphony Concerts New York, American Friends of Canada; Trustee Seaman's Bank for Savings, New York; mem. The Canadian-American Cttee. of the Nat. Planning Assn. Washington, the Private Planning Assn. of Canada (now C.D. Howe Research Inst.), Canadian Inst. of Mining and Metallurgy, Mining and Metallurgical Soc. of America; mem. Council on Foreign Relations; mem. and Trustee, U.S. Steel Foundation Inc.; Senior mem. The Conference Board; several Hon. LL.D. and L.H.D. *Leisure interest:* genealogy. *Address:* 520 East 86th Street, New York, N.Y. 10028, U.S.A.

WINGFIELD DIGBY, George; British author; b. 2 March 1911, Sherborne, Dorset; s. of F.J.B. Wingfield Digby and Gwendolen Hamilton Fletcher; m. Cornelia Keitler 1935; one s. (deceased); ed. Harrow, Trinity Coll., Cambridge, and Univs. of Grenoble and Paris; Keeper, Dept. of Textiles, Victoria and Albert Museum 1947-72, Keeper Emer. 1972-73 (retd.). *Publications:* Work of the Modern Potter in England 1952, Meaning and Symbol in Three Modern Artists 1955, Symbol and Image in William Blake 1957, Elizabethan Embroidery 1963, The Devonshire Hunting Tapestries (with Wendy Hefford) 1972, Tapestries Medieval and Renaissance (Victoria and Albert Museum collections) 1978; joint author History of the West Indian Peoples (4 vols. for schools) 1951-56, The Bayeux Tapestry 1957, Islamic Carpets and Textiles—the Keir Collection (with Cornelia Wingfield Digby) 1978. *Address:* Raleigh Lodge, Sherborne, Dorset, England.

WINKLER, Hans Günter; German showjumper and company executive; b. 24 July 1926, Barmen; s. of Paul Winkler; m. 1st Inge Fellgiebel 1957 (separated 1960); m. 2nd Comtesse Marianne Moltke 1962, two c.; mem. Exec., German Riding and Motoring Assn. 1958-; winner of about 1,000 events, incl. over 500 int. events, up to 1964; took part in six Olympiads 1956-76, winning five Gold Medals, one Bronze Medal (Mexico City) 1968, one Silver Medal (Montreal) 1976; World Riding Champion 1954, 1955; European Champion 1957; Winner, King George V Cup 1965, 1968; Needle of Honour, Senate of West Berlin 1954; Sportsman of the Year 1955, 1956; Gold Band, German Sports Press Assn. 1956; Best Sportsman of the Decade 1960; Needle of Honour, Int. Riding Assn. 1964; Grand Cross of Honour of Fed. Repub. of Germany 1974; 101 nat. prizes up to 1976; FN Award in Gold with Olympic Rings, Laurel Wreath and Diamonds 1976; Hon. mem. Riding and Motoring Asscns. of Warendorf, Ludwigsburg, Herborn, Darmstadt, Bayreuth, Salzburg, Frankfurt am Main, Kassel, Hünfeld; Hon. Citizen of Warendorf; world's most successful Olympic showjumping rider. *Publications:* Meine Pferde und Ich (My Horses and I), Pferde und Reiter in aller Welt (Horses and Riders of the World) 1956, Halla D., Geschichte ihrer Laufbahn (Halla D., A. History of her Career) 1961. *Leisure interests:* skiing, hunting. *Address:* Dr. Rau Allee 48, 441 Warendorf, Federal Republic of Germany. *Telephone:* 2361.

WINKLER, Paul; French (b. Hungarian) newspaper executive; b. 7 July 1898; ed. Lycée Luthérien, Univ. of Budapest; Dir. Opera Mundi press syndicate 1928, Pres. and Dir.-Gen. 1958-; Founder and Pres. Union of Press Syndicates 1935-39; Pres. Press-Alliance, New York 1940-45; Foreign political columnist Washington Post 1943-45, with U.S. First Army 1944-45; Founder Société Edi-Monde with Librairie Hachette 1947-77; Dir.-Gen. Samedi-Soir 1950-55; Dir.-Gen. Lectures pour Tous 1953-74; mem. Board. Société Nationale de Presse et Publicité 1952-74, Pres. 1961-67; Vice-Pres. Fédération Associations d'Editeurs de Pérodiques de la Communauté Européenne 1974-77; Pres. Presse-Alliance, Paris 1976; Dir.-Gen. and Editor-in-Chief, France-Soir 1976, Officer Legion d'honneur. *Publications:* The Thousand Year Conspiracy 1943, Paris-Underground (co-author) 1943, Allemagne secrète 1946, Les sources mystiques des concepts moraux de l'Occident 1957. *Address:* 100 avenue Raymond-Poincaré, 75116 Paris; 23 avenue Foch, 75116 Paris; Domaine du Pré, 77770 Chartrettes, France.

WINKLER, Wilhelm, DR. JUR.; Austrian statistican and demographer; b. 29 June 1884, Prague; s. of Anna and Julius Winkler; m. 1st Clara Deutsch 1918 (died 1956), 2nd Franziska Hacker 1958; three s. one d.; ed. German Branch of Karl Ferdinands Univ., Prague; Lecturer in Statistics, Univ. of Vienna 1923; founder and fmr. Dir. Statistical Inst. of Univ. of Vienna; Chief Population Div., Bundesamt für Statistik 1925-38; Extraordinary Prof. 1929; Prof. 1947-55, Emer. 1955-; Dean Faculty of Law and Social Sciences 1950-51; Hon. Prof. Hochschule für Welthandel 1948-; was retired from his professorship by the Nazi regime 1938-45; Founder. Hon. Chair. Österreichische Statistische Gesellschaft; fmr. Vice-Pres. Int. Union for the Scientific Study of Population; Editor Statistische Vierteljahresschrift 1948-58; Co-Founder Metrika; organizer of Int. Demographic Congress, Vienna 1959; Hon. mem. Int. Statistical Inst. and British, German, Hungarian, Mexican Statistical Socs.; mem. Austrian Acad. of Sciences, Hon. Dr. Oec. Publ. Munich Univ. 1959, Hon. Dr.rer.Pol., Vienna Univ. 1966; Österreichisches Ehrenkreuz für Wissenchaft und Kunst (1st Class); Offizierskreuz des Österreichischen Verdienstordens. *Publications:* Statistische Verhältniszahlen 1923, Die Einkommensverschiebungen in Oesterreich während des Weltkrieges 1930, Statistisches Handbuch der europäischen Nationalitäten 1931, Grundriss der Statistik (2 vols.) 1931-33, Der Geburtenrückgang in Oesterreich 1935, Grundfragen der Oekonometrie 1951, Typenlehre der Demographie 1952, International Population Conference 1959 (Co-Editor), Mehrsprachiges Demographisches Wörterbuch 1960, Demometrie 1969, Verteilung der geistigen Anlagen und Leisungen der Menschen, Kranke Demokratieen zwischen Anarchie und Diktatur, Der Ausweg. *Address:* Ghelengasse 30, A-1130 Vienna, Austria. *Telephone:* 82-77 542.

WINNACKER, Karl, DR. ING; German chemist; b. 21 Sept. 1903, Wuppertal; s. of Ernst Winnacker and Martha Wallis; m. Gertrud Deitenbeck 1936; two s. one d.; ed. Brunswick and Darmstadt Technical Univs.; Hon. Prof. Frankfurt-am-Main Univ. 1953-71; Pres. (Gen. Man.) Hoechst AG until 1969, Pres. Advisory Board, Hoechst AG, Hon. Pres. Advisory Board, Wacker-Chemie GmbH, Munich; mem. Advisory Board, DEMAG AG, Duisburg, Mannesmann AG, Düsseldorf, etc.; mem. industrial and scientific orgs.; Hon. Pres. Dechema; Dr. rer. Nat. h.c. (Technische Hochschule, Brunswick, and Mainz Univ.), Dr. Phil. h.c. (Marburg Univ.); Dr.

ciencias quim h.c. (Madrid); Dr. techn. h.c. (Lund). *Publications:* Chemische Technologie (Co-Editor) 1969-75 (7 vols.), Nie den Mut verlieren 1971, Challenging Years 1972, Das unverstandene Wunder (with K. Wirtz) 1975, Schicksalsfrage Kernenergie 1978. *Leisure interests:* music, aquatic activities. *Address:* Hoechst AG, 623 Frankfurt (Main)-80; and Oelmühlweg 31A, 624 Königstein, Federal Republic of Germany. *Telephone:* Frankfurt 31-60-60 (Office).

WINNEKE, Sir Henry Arthur, K.C.M.G., K.C.V.O., O.B.E., K.ST.J., Q.C.; Australian state governor; b. 29 Oct. 1908, Melbourne; s. of Judge Henry Christian Winneke; m. Nancy Rae 1933; two s.; ed. Ballarat Grammar School, Scotch Coll., Melbourne, Melbourne Univ.; admitted to Bar 1931; war service R.A.A.F. (Group Capt.) 1939-46; Solicitor-Gen., Victoria 1951-64, Chief Justice of Supreme Court 1964-74; Lieut.-Gov. of Victoria 1972-74, Gov. 1974-. *Leisure interests:* golf, tennis, reading. *Address:* Government House, Melbourne, Victoria 3004, Australia. *Telephone:* 63-9971.

WINNER, Michael Robert, M.A.; British film producer and director; b. 30 Oct. 1935, London; ed. Cambridge Univ.; Editor and film critic of Cambridge Univ. paper; entered film industry as film critic and columnist for nat. newspapers and magazines 1951; wrote, produced and directed many documentary, TV and feature films for the Film Producers Guild, Anglo Amalgamated, United Artists 1955-61; Chair. Scimitar Films Ltd. 1957-. Films: Play It Cool (Dir.) 1962, The Cool Mikado (Dir., writer) 1962, West 11 (Dir.) 1963, The System (Co-producer and Dir.) 1963-64, You Must Be Joking (original story, Dir.) 1964-65, The Jokers (Writer, Dir.) 1966, I'll Never Forget What's 'is Name (Producer, Dir.) 1967, Hannibal Brooks (Producer, Dir., original story) 1968, The Games (Dir.) 1969, Lawman (Producer, Dir.) 1970, The Nightcomers (Producer, Dir.) 1971, Chato's Land (Producer, Dir.) 1971, The Mechanic (Dir.) 1972, Scorpio (Dir.) 1972, The Stone Killer (Producer, Dir.) 1973, Death Wish (Dir.) 1974, Won Ton Ton—The Dog Who Saved Hollywood (Producer, Dir.) 1975, The Sentinel (Producer, Dir., Screenplay) 1976, The Big Sleep (producer, dir., writer) 1977, Firepower (Producer, dir., writer) 1978. *Leisure interest:* art. *Address:* Scimitar Films Ltd., 6-8 Sackville Street, London, W1X 1DD, England. *Telephone:* 01-734 8385.

WINQWIST, Carl-Henrik; Swedish lawyer; b. 4 Nov. 1932, Menton, France; s. of Folke and Annajo Winqwist; m. Caroline Crafoord 1959; two s. three d.; ed. Sigtunastifelsens Humanistiska Läroverk, and Univ. of Stockholm; Chair. Swedish Conservative Student Union 1959-62; Sec.-Gen. Inst. Christian Democratic and Conservative Student Union 1962-65; Man. Dir. of an econ. research bureau 1962-68; Int. Sec. Conservative Party 1965-71; Dir.-Gen. Swedish Moderate party 1968-71; with Skandinaviska Enskilda Banken 1971-72; Sec.-Gen. Int. Chamber of Commerce 1973-; mem. Royal Comm. of Advertising 1966-74. *Publications:* Sweden and Nuclear Missiles 1959, One Europe 1962. *Leisure interests:* classical music, Richard Wagner, cooking, squash. *Address:* International Chamber of Commerce, 38 Cours Albert 1er, 75008 Paris; 1 avenue Silvestre de Sacy, 75007 Paris, France (Home). *Telephone:* 261-85-97 (Office); 551-70-96 (Home).

WINSPEARE GUICCIARDI, Vittorio, M.A.; Italian diplomatist; b. 19 Aug. 1912, Catania; s. of Cesare and Francesca (de Malfer) Winspeare Guicciardi; m. Adi von Bernd 1948; one s. one d.; ed. Bocconi Univ., Milan; Sec. Italian Embassy, London 1945-49; mem. Italian Del. Paris Peace Conf. 1946-47; First Sec. Italian Embassy, Bonn 1951-54; Consul-Gen., Berlin 1954-58; Amb. to Ireland 1961-66, to Czechoslovakia 1966-68; Under-Sec.-Gen. UN and Dir.-Gen. UN Office at Geneva 1968-78; Personal Rep. of UN Sec.-Gen. on Good Offices Mission, Bahrain 1970; Special Rep. of UN Sec.-Gen. in India and Pakistan Dec. 1971, Bangladesh Jan.-Feb. 1972, East Timor Jan.-Feb. 1976; Cavaliere di Gran Croce Al Merito della Repubblica Italiana; Hon. C.V.O.; Officer Légion d'honneur; Commdr. Order of George I (Greece); Verdienstkreuz der Bundesrepublik Deutschland and others. *Address:* c/o Ministry of Foreign Affairs, Farnesia, Rome 00100, Italy.

WINT, Arthur Stanley, M.B.E., C.D., F.R.C.S.; Jamaican medical practitioner and diplomatist; b. 25 May 1920, Jamaica; s. of Rev. John S. and Hilda Wint (née Smith); m. Norma Marsh 1949; three d.; ed. Excelsior Coll., Jamaica, St. Bartholomews Hosp., London. R.A.F. 1944-47; St. Bartholomews Hosp. 1947-53; Univ. Hosp. of West Indies 1954-57; Altringham Gen. Hosp. 1958-63; Jamaican Hospitals 1963-73; High Commr. in U.K. (also accred. to Denmark, Italy and Sweden) 1974-78; athlete in Olympic Games 1948 (1st in 400 metres, 2nd in 800 metres), 1952 (2nd in 800 metres, 1st in 4 × 400 metres relay). *Leisure interests:* swimming, badminton. *Address:* c/o Ministry of Foreign Affairs, Kingston, Jamaica.

WINTER, Richard; Romanian politician; b. 15 May 1934, Sighişoara; ed. Stefan Gheorghiu Acad., Bucharest; joined Romanian Communist Party (RCP) 1954, Sec. County Cttee., Sibiu 1968, First Sec. County Cttee., Sibiu, and Chair. Exec. Cttee. of People's Council, Sibiu County 1968-78, Alt. mem. Exec. Political Cttee. of RCP Cen. Cttee. 1972-; mem. Nat. Council of Socialist Unity Front 1968-; mem. Grand Nat. Assembly 1966-; Vice-Pres. Council of Working People of German Nationality 1968-; Minister-State Sec., Ministry for Tech. National Supply and Fixed Assets Man. Control 1978-. *Address:* Ministeril Aprovizionării Technico-materiale şi Controluliu Gospodării Fondurilor Fixe, Calea Victoriei 142, Bucharest, Romania. *Telephone:* 50-50-60.

WINTERS, Shelley; American actress; b. 18 Aug. 1922, St. Louis, Mo.; ed. Wayne Univ.; *Films include:* A Thousand and One Nights, A Place in the Sun, Playgirl, Executive Suite, The Diary of Anne Frank 1958, Odds Against Tomorrow, Let No Man Write My Epitaph, Lolita 1962, Wives and Lovers 1963, The Balcony 1964, A House is not a Home 1964, A Patch of Blue, Time of Indifference 1965, Alfie 1965, The Moving Target 1965, The Poseidon Adventure 1972; Cleopatra Jones 1973, Blume in Love 1974, Whoever Slew Auntie Roo 1974, Heaven Save Us from Our Friends 1975, Diamonds 1975, That Lucky Touch 1975, Next Stop Greenwich Village 1976, The Tenant 1976, Pete's Dragon 1977; stage appearances include: A Hatful of Rain 1955, Girls of Summer 1957, The Night of the Iguana, Cages, Who's Afraid of Virginia Woolf?; Acad. Award for best supporting actress in The Diary of Anne Frank 1959, Emmy Award for Best Actress 1964, Monte Carlo Golden Nymph Award 1964, Int. Television Award, Cannes Festival 1965. *Address:* c/o International Creative Management, 22 Grafton Street, London, W.1, England.

WINTOUR, Charles Vere, M.A., C.B.E.; British journalist; b. 18 May 1917, Wimborne, Dorset; s. of F. Wintour and Blanche Foster; m. Eleanor Baker 1940; two s. two d.; ed. Oundle School, and Peterhouse, Cambridge Univ.; Royal Norfolk Regiment 1940, G.S.O. Headquarters, Chief of Staff to Supreme Allied Commdr. (designate) and SHAEF (despatches); Evening Standard 1946, political Editor 1952; Asst. Editor Sunday Express 1952-54; Deputy Editor Evening Standard 1954-57; Man. Editor Daily Express 1957-59; Editor Evening Standard 1959-76, Nov. 1978-; Chair. Evening Standard Co. 1968; Gov. L.S.E.; Dir. Beaverbrook Newspapers 1964-; Man. Dir. Daily Express 1977-78; Croix de guerre 1945; Bronze Star (U.S.) 1945. *Publication:* Pressures on the Press 1972. *Leisure interests:* theatre, travel. *Address:* Evening Standard, 47 Shoe Lane, London, EC4P 4DD; 60 East Hatch, Tisbury, Wiltshire, England.

WIRKKALA, Tapio; Finnish designer; b. 2 June 1915; m. Rut Bryk 1945; one s. one d.; ed. Industrial Art Inst., Helsinki; Art Dir. Industrial Art Inst. 1951-54; Smithsonian Inst. Travelling Museum Exhbns. in U.S. 1956-58, 1971-73; own exhbns. in numerous countries, incl. Stedelijk Museum, Amsterdam 1976, Venezia Biennale Invitation Exhbn. 1976; designed interior, Finnish Pavilion, Brussels World Fair 1958; works in numerous museums in Europe, U.S. and Australia; jury mem. numerous int. competitions; Chair. Govt. Industrial Art Comm., Finland 1968-73; Hon. Royal Designer of Industry, London 1964; Hon. Assoc. Worshipful Co. of Goldsmiths, London 1971; Dr. h.c. Royal Coll. of Art 1971; seven Grandes Premios, gold medal, silver medal in Triennales, Milan; Lunning Prize 1951; the Most Beautiful Object of the Year 1951; four prizes for designing Olympic Games stamps 1952; S.I.A. Medal of the Year, London 1958; Golden Obelisk Domus Milano 1963; Faenza Int. Ceramic Competitions, five gold medals awarded by Pres. of Italy; three int. prizes, Vicenza Int. Ceramic Competitions; Hon. Prize, Culture Foundation of Finland 1968. *Address:* Lönnrotinkatu 22 A, 00120 Helsinki 12, Finland. *Telephone:* 64-33-66.

WIRTZ, William Willard, A.B., LL.B.; American lawyer and government official; b. 14 March 1912; ed. Univ. of California (Berkeley), Beloit Coll., and Harvard Law School; Teacher 1933-39; Assistant Prof. School of Law, Northwestern Univ. 1939-42; Asst. Gen. Counsel, Board of Econ. Warfare 1942-43; served War Labor Board 1943-45; Chair. Nat. Wage Stabilization Board 1946; Prof. of Law, Northwestern Univ. 1946-54; law practice 1955-61; Under-Sec. of Labor 1961-62, Sec. of Labor 1962-69; now Partner, Wirtz and Gentry; Trustee, Penn Cen. 1970; Hon. degrees from Michigan, Rhode Island, Northwestern, Yeshiva, and Roosevelt Univs. and Amherst, Monmouth Colls.; Democrat. *Address:* 1211 Connecticut Avenue, N.W., Washington, D.C. 20036 (Office); 5009 39th Street, N.W., Washington, D.C. 20016, U.S.A. (Home).

WISCHNEWSKI, Hans-Jürgen; German politican; b. 24 July 1922; served German Forces 1940-45; worked in metal industry after war; mem. Social Democrat party 1946; (Exec. Sec. 1968-72); Sec. Metal Workers' Union, Cologne 1952; mem. Bundestag 1957-; Chair. Young Socialists 1960; Fed. Minister for Econ. Co-

operation 1966-68; Chair. Stiftung für Entwicklungsländer (Foundation for the Developing Countries) 1970-72; Minister of State in Federal Foreign Office 1974-. *Address:* Am Kappellenbusch 2, 5042 Erft-stadt-Liblar, Federal Republic of Germany.

WISE, George Schneiweis; American (b. Russian) university professor; b. 1906; ed. Columbia Univ.; Assoc. Dir. Bureau for Applied Social Research, Columbia Univ. 1949-52, Lecturer in Sociology 1950-52; Visiting Professor, Univ. of Mexico 1956; Chair. Bd. Govs. Hebrew Univ. 1953-62, Jewish Telegraph Agency 1951-55; Pres. Tel Aviv. Univ. 1963-71, Chancellor for Life 1971-; Trustee Mount Sinai Medical Centre, Miami 1977. *Address:* 999 South Bayshore Drive, Miami, Fla. 33133, U.S.A. and Tel Aviv University, Ramat Aviv, Tel Aviv, Israel (Offices); 5401 Collins Avenue, Miami Beach, Fla. 33140, U.S.A. (Home).

WISE, Robert Earl; American film producer and director; b. 10 Sept. 1914, Winchester, Ind.; s. of Earl W. Wise and Olive Longenecker; m. Patricia Doyle 1942; one s.; ed. Franklin Coll., Ind.; joined RKO 1933, apprentice sound effects cutter, then Asst. Editor and later Film Editor; films edited include Citizen Kane and The Magnificent Ambersons; Film Dir. 1943-, directed and produced thirty-five films; Vice-Pres. The Filmakers Group; mem. Board of Govs., Acad. of Motion Picture Arts and Sciences; Pres. Dirs. Guild of America; mem. Nat. Council on the Arts; four Acad. Awards (Best Film and Best Dir. West Side Story and The Sound of Music), and Irving Thalberg Award, Acad. of Motion Picture Arts and Sciences. *Films include:* Curse of the Cat People 1944, The Body Snatcher 1945, The Set Up 1949, The Day the Earth Stood Still 1951, The Desert Rats 1953, Executive Suite 1954, Helen of Troy 1955, Tribute to a Bad Man 1956, Somebody Up There Likes Me 1956, Until They Sail 1957, Run Silent, Run Deep 1958, I Want to Live 1958, Odds Against Tomorrow 1959, West Side Story 1961, Two for the Seesaw 1962, The Haunting 1963, The Sound of Music 1965. The Sand Pebbles 1966, Star! 1968, The Andromeda Strain 1971, Two People 1973, The Hindenberg 1975, Audrey Rose 1977. *Address:* c/o The Filmakers Group, Universal Studio, Universal City, Calif. 91608, U.S.A.

WISEMAN, Gen. Clarence D., O.C.; Canadian Salvation Army leader; b. 19 June 1907, Moreton's Harbour, Newfoundland; m. Janet Kelly 1932; one s. one d.; ed. Salvation Army Training Coll.; in command, Salvation Army centres in Canada; served overseas ■ Chaplain, Canadian Forces, in World War II, after 3 years directed all Salvation Army Welfare Services on various fighting fronts; admin. posts in Salvation Army in Canada 1945-60, directed operations in Kenya, Tanzania and Uganda 1960-62; Principal, Salvation Army William Booth Memorial Training Coll., London 1962-67; Head of Salvation Army work in Canada 1967-74; Gen. (Int. Leader) of the Salvation Army 1974-77; Hon. LL.D. (Newfoundland Memorial Univ.), Hon. D.D. (Yonsei); Order of Canada 1976. *Address:* 170 Oakmeadow Boulevard, Scarborough, Ont. M1E 4H3, Canada.

WISER, Forwood C., Jr., M.B.A.; American airline executive; b. 24 June 1921. Chester, Pa.; m. Martha Bergey; one s. one d.; ed. Lehigh Univ., U.S. Naval Acad. and Harvard Business School; Naval Officer 1944-49; Asst. to Vice-Pres. Container Corpn. of America 1951; Vice-Pres. Pittsburgh Standard Conduit Co. 1954-57; Asst. Vice-Pres. of Operations, American Airlines 1957-58, Vice-Pres. of Operations 1958-59, 1964-66, Vice-Pres. of Tech. Services 1959-64; Pres., then Pres. and Chief Exec. Officer, Northeast Airlines 1966-68; Dir. and Exec. Vice-Pres. Trans World Airlines (TWA) Oct. 1968, Pres. and Chief Operating Officer 1969-75; Pres. Pan American Airlines 1976-78; Trustee, U.S. Naval Acad. Foundation; mem. Fund Council of Harvard Business School. *Address:* 15 Hibben Road, Princeton, N.J. 08740, U.S.A. (Home).

WIŚNIEWSKI, Włodzimierz, ECON.D.; Polish economist and politician; b. 1926, Warsaw; ed. Higher School of Maritime Trade, Gdynia; worked in Maritime Agency, then Polish Ocean Lines (PLO); mem. Polish Maritime Mission, London 1954-63, Chief of Mission 1960-63; Gen. Dir. Polish Co. GAL, London 1960-63; man. posts in Ministry of Foreign Trade (Chief of Section, Deputy Dir., Dir. of Dept.) 1964-68; Comm. Counsellor, Polish Embassy, London 1968-73; Doctor of Econ. Sciences 1972-; Undersec. of State, Ministry of Foreign Trade 1973-74, Pres. Polish Chamber of Foreign Trade (PIHZ); 1974-78; Amb. to Finland 1978-; Officers' Cross of Order Polonia Restituta and other decorations; mem. Polish United Workers' Party (PZPR). *Address:* Embassy of the Polish People's Republic, Armas Lindgrenin tie 21, 00570 Helsinki 57, Finland.

WITHERS, Rt. Hon. Reginald Greive, P.C., LL.B.; Australian politician; b. 26 Oct. 1924, Bunbury, W.A.; s. of late F.J. Withers; m. Shirley Lloyd-Jones 1953; two s. one d.; ed. Bunbury and Univ. of Western Australia; served in Royal Australian Navy 1942-46; mem. Bunbury Municipal Council 1954-56, Bunbury Diocesan Council 1958-59, Treas. 1961-68; State Vice-Pres., Liberal and Country League of W.A. 1958-61, State Pres. 1961-65; mem. Fed. Exec. of Liberal Party 1961-65, Fed. Vice-Pres. 1962-65; mem. Senate for W.A. Feb.-Nov. 1966, Nov.1967-, Govt. Whip in Senate 1969-71, Leader of Opposition in Senate 1972-75; Special Minister of State, Minister for A.C.T., Minister for the Media and Minister for Tourism and Recreation Nov.-Dec. 1975, Leader of Govt. in Senate and Minister for Admin. Services 1975-78, Vice-Pres. Exec. Council 1975-78; fmr. Chair. Joint Cttee. on A.C.T., Select Cttee. on Foreign Ownership and Control of Australian Resources, Senate Standing Cttee. on Constitutional and Legal Affairs; mem. del. to Conf. of Commonwealth Parl. Assn., Trinidad 1969. *Leisure interests:* swimming, reading, painting. *Address:* Parliament House, Canberra, A.C.T. 2600; and Commonwealth Parliament Offices, City Centre Tower, 44 St. George's Terrace, Perth, W.A. 6000, Australia. *Telephone:* 72-7211 (Canberra); 325-8449 (Perth).

WITKON, Alfred, DR.JUR.; Israeli judge; b. 23 Feb. 1910, Berlin, Germany; m. Greta Philipsohn 1936; ed. Univs. of Bonn, Berlin and Freiburg, and Middle Temple, London; called to Middle Temple Bar 1936, to Palestine Bar 1937; practised law, Palestine 1937-48; Pres. District Court, 1948-54; Justice Supreme Court of Israel 1954-; Lecturer, Hebrew Univ. 1953-69. *Publications:* Law and Society 1955, Law and Politics 1965, Law of Taxation 1966. *Address:* 17 Shmarjahu Levin Street, Jerusalem, Israel. *Telephone:* 412687.

WITKOP, Bernhard, PH.D., SC.D.; American chemist; b. 9 May 1917, Freiburg (Baden), Germany; s. of Prof. Philipp W. Witkop and Hedwig M. Hirschhorn; m. Marlene Prinz 1945; one s. two d.; ed. Univ. of Munich. Dozent Univ. of Munich 1946; Matthew T. Mellon Fellow Harvard Univ., U.S. 1947; Instructor and Lecturer 1948-50; Special Fellow U.S. Public Health Service 1950-53; Research Fellow Nat. Heart Inst. 1950; Special Fellow, Nat. Inst. of Arthritis and Metabolic Diseases, Nat. Insts. of Health 1952, Chief of Section on Metabolites 1955, Chief of Lab. of Chemistry, Nat. Inst. of Arthritis, Metabolic and Digestive Diseases 1957-; Visiting Prof., Kyoto Univ. 1961, Univ. of Freiburg 1962; Lecturer, Univ. of Zurich 1972-; mem. Nat. Acad. of Sciences Acad. Leopoldina-Carolina 1972: Comm. on Int. Relations, Nat. Acad. of Sciences 1978, American Acad. of Arts and Sciences 1978; Hillebrand Award of American Chemical Soc. 1959; Paul Karrer Medallist; Order of the Sacred Treasure, Japan 1975, U.S. Senior A. von Humboldt Award (Univ. of Hamburg) 1979. *Publications:* Mushroom Poisons 1940, Curare Arrow Poisons 1942, Yohimbine 1943, Kynurenine 1944, Indole Alkaloids 1947-50, Oxidation Mechanisms, Ozonization, Peroxides 1952, Hydroxyaminoacids, Metabolites, Building Stones and Biosynthesis of Collagen 1955, Mescalin and LSD Metabolism 1958, Pharmacodynamic Amines 1960, Nonenzymatic Cleavage and Modification of Enzymes 1961, Gramicidin A 1964, Rufomycin 1964, Photo-Reductions, -Additions, -Cyclizations 1966, Microsomal Hydroxylations, Arenoxide Metabolites, "NIH-Shift" 1967, Amphibian Venoms, Batrachotoxin, Pumiliotoxin 1968, Norepinephrine Release, Inactivation, False transmitters 1968, Histrionicotoxin, ■ selective inhibitor of cholinergic receptors 1970-72, Interaction of Polynucleotides Stimulators of Interferon 1973-74. *Leisure interests:* languages, etymology, literature, piano, chamber music, hiking, skating, mountainteering. *Address:* National Institute of Arthritis, Metabolic and Digestive Diseases, National Institutes of Health, Bethesda, Md. 20014; 3807 Montrose Driveway, Chevy Chase, Md. 20015, U.S.A. (Home). *Telephone:* (301) 496-5455.

WITTE, Peter Cornelis, LL.M.; Netherlands diplomatist and international official; b. 19 May 1916, Texel; s. of Cornelis Albertus Witte and Euphemia Catherina de Haan; m. Adolphine de Moor 1946; one s. two d.; ed. Univ. of Leyden; Officer in Netherlands Army ■ Netherlands East Indies 1945-48; with Ministry of Finance 1948-53; Asst. Financial Attaché, Embassy in Washington, D.C. 1953-57, Financial Attaché and First Commercial Sec., London 1953-64, Counsellor, New Delhi 1964-68, Minister Plenipotentiary, London 1968-71; Dir. of Financial and Econ. Devt. Assistance, Ministry of Foreign Affairs 1971-74; Exec. Dir., IBRD, IDA, IFC 1974-76; Amb. to Norway Dec. 1976-; Officer, Order of Orange Nassau, Commdr., Order of Repub. of Tunisia. *Publications:* articles on financial matters. *Leisure interests:* philosophy, history. *Address:* Gyldenløvesgate 51, Oslo 2, Norway. *Telephone:* 44-25-84.

WITTEVEEN, Hendrikus Johannes; Netherlands economist, politician and international administrator; b. 12 June 1921, Zeist; m. L. De Vries Feyens; four c.; ed. Netherlands School of Economics, Rotterdam; Netherlands Cen. Planning Office 1945-46; Lecturer,

Netherlands School of Econs., Rotterdam 1947-48, Prof. of Business Cycles and Econs. 1948-63; mem. First Chamber, States-Gen. 1958-63, Second Chamber 1965-67; Minister of Finance 1963-65, 1967-71, also First Deputy Prime Minister 1967-71; mem. Advisory Board Unilever N.V. 1972-73, ROBECO 1972-73; Man. Dir. Int. Monetary Fund 1973-78; Adviser to Board of Man. Dir. Amsterdam-Rotterdam Bank N.V. 1979-; Chair, Consultative Group on Int. Econ. and Monetary Affairs; Dir. ROBECO, Royal Dutch Shell, Thyssen-Bornemisza; mem. Eur. Advisory Council Gen. Motors, Int. Council Morgan Guaranty Trust Co.; Liberal. *Leisure interests:* classical music, English and French literature. *Address:* Amsterdam-Rotterdam Bank N.V.; Herengracht 595, Amsterdam; Waldeck Pyrmontlaan 15, Wassenaar, Netherlands (Home). *Telephone:* (020) 284600 (Office); 01751-79824 (Home).

WITTIG, Georg, DR.PHIL.; German chemist; b. 16 June 1897, Berlin; s. of Prof. Gustav Wittig and Martha (née Dombrowski); m. Waltraut Ernst 1930 (died 1978); two d.; ed. Wilhelms-Gymnasium, Kassel and Marburg Univ. Dozent, Marburg Univ. 1926-32; Head of Dept. Technische Hochschule, Brunswick 1932-37; Special Prof. Univ. of Freiburg/Br. 1937; Prof. and Inst. Dir. Tübingen Univ. 1944-56; Prof. Heidelberg Univ. 1956-67, Emer. Prof. 1967-; Baeyer Medal 1953; mem. Acad. of Sciences, Munich and Heidelberg, Sociedad Química del Perú, Leopoldina Halle; Hon. mem. Swiss Chem. Asscn., New York Acad. of Sciences, Chemical Soc. (London), Soc. Chimique de France; foreign corresp. mem. Acad. of Medical Sciences, Cordoba, Argentina; Dannie-Heineman-Preis 1965; Otto Hahn Prize 1967; Ville de Paris Medal 1969; Hon. Dr. of Sorbonne; Hon. Dr. rer. nat. (Univs. of Tübingen and Hamburg); mem. de l'Académie Française; silver Medal, Helsinki 1958, Paul Karrer Medal, Univ. of Zurich 1972; Bruylants Chair Medal, Univ. of Louvain 1972; Roger Adams Award, American Chemical Soc. 1973, Karl-Ziegler-Preis 1975. *Publications:* Textbook on Stereochemistry 1930, Metallorganic, Ylid and Carbanion Chemistry. *Leisure interests:* mountaineering, music. *Address:* Bergstrasse 35, 69 Heidelberg, Federal Republic of Germany. *Telephone:* 40945.

WOELFLE, Arthur W.; American business executive; b. 8 March 1920, Dunkirk, N.Y.; m. Ruth Godden; three d.; ed. Univ. of Buffalo. served in U.S. Marine Corps 1940-45; Sec.-Treas. Bedford Products until 1955; Senior Vice-Pres. Bedford Products Division, Kraft Inc.; Div. Product Man. Kraft's Eastern Div. 1959; later various positions with Kraft Foods Division; Chief Exec. Officer Kraft Foods, Fed. Repub. of Germany 1966-69; Chair. and Man. Dir. Kraft Foods Ltd., U.K. and Scandinavia 1969-73; Dir. Kraftco Corpn. 1973-, Vice-Chair. 1973, Pres. and Chief Operating Officer 1973-; Vice Pres. World Trade Div. Chicago Assn. of Commerce and Industry; Dir. First Nat. Bank of Chicago, First Chicago Corpn., Santa Fe Industries Inc. *Address:* Kraft Inc., Kraft Court, Glenview, Ill. 60025, U.S.A.

WOERDEMAN, Martinus Willem, M.D., D.SC., PH.D.; Netherlands university professor (Emer.); b. 1892, Zaandyk; s. of Martinus Woerdeman and Antje Huysman; m. 1st Geertruida Elizabeth Polderman (died 1958), 2nd Hanna Nyman 1959; one s.; ed. Univ. of Amsterdam. Asst. in Anatomy and Histology, Univ. of Amsterdam 1914-22, Lecturer in Histology 1922-25, Prof. of Histology 1925-26; Prof. of Anatomy and Embryology, Univ. of Groningen 1926-31; Prof. of Anatomy and Embryology and Head of Dept. of Anatomy Univ. of Amsterdam 1931-62, Dean of Faculty of Medicine 1946-50; Rector of Univ. 1945-46; Pres. Royal Neths. Acad. of Sciences 1954-60; Pres. Univ. of Amsterdam 1953-59; Chief Editor Excerpta Medica and Acta morphologica neerlandoscandinavica; foreign mem. Royal Swedish Acad. Sciences, Royal Flemish Acad. of Medicine, Nat. Acad. of Sciences, Mexico; Hon. D.Sc. (Oxford) 1950, Hon. Ph.D. (S. Africa) 1959; Swammerdam Medal 1950; Commdr. Order of Orange Nassau; Knight Order of Neths. Lion; Officier de la Légion d'honneur; Knight Order of St. Sava. *Publications:* Atlas of Human Anatomy 1948, Nomina anatomica Parisiensia 1957. *Leisure interests:* mathematics, history. *Address:* 10 Botticellistr., Amsterdam 1009, Netherlands. *Telephone:* 020-723700.

WOJNA, Ryszard; Polish journalist; b. 2 July 1920, Sanok; m. Elzbieta Wojna; two c.; ed. Jagiellonian Univ., Cracow and Univ. of Grenoble. Editor, Echo Krakowa 1948-49; Foreign Editor, Glos Pracy, Warsaw 1951-56, Perm. corresp. in Middle East 1957-61, in Bonn 1963-67; Deputy editor Życie Warszawy 1968-71, Editor 1972-73; Journalist Trybuna Ludu 1973-; mem. Presidium, Gen. Board of Polish Journalists Assn., Chair. Warsaw Branch 1971-77; Deputy mem. Cen. Cttee. Polish United Workers' Party 1971-75, mem. 1975-; Deputy to Seym April 1976-; mem. Presidium All-Polish Peace Cttee; Officer's Cross of Order Polonia Restituta 1972, State Prize for Literature and Journalism 1972. *Publications:* Szkice arabskie 1964, Spokojnie plynie Ren 1971, Rozmowa z ojcem 1978. *Leisure interest:* skiing. *Address:* Trybuna Ludu, Pl. Starynkiewicza 7, 02-015 Warsaw, Poland.

WOJTASZEK, Emil; Polish politician, economist and diplomatist; b. 22 Aug. 1927, Cracow; m. Barbara Karbowska 1951; one s.; ed. Higher School of Social Sciences, Cen. Cttee. of Polish United Workers' Party, Warsaw; lived in France 1929-44, later working as a miner 1941-44; mem. French Resistance 1939-44; deported to Germany 1944; Commdr. Polish Pathfinders Union 1946-49; returned to Poland 1950; Polish Rep. World Fed. of Democratic Youth, mem. Polish Peace Cttee. 1950-58; mem. Secr. World Peace Council 1958-65; Sec. Polish Peace Cttee. 1965-68; Deputy Head, Foreign Dept., Cen. Cttee. of Polish United Workers' Party 1968-72; Vice-Minister Foreign Affairs April-May 1972; Amb. to France 1972-76; Minister of Admin., Regional Economy and Protection of the Environment March-Dec. 1976, of Foreign Affairs Dec. 1976-; mem. Polish Workers' United Party, deputy mem. Cen. Cttee. Dec. 1975-Dec. 1976, mem. Dec. 1976; Knight's, Officer's and Commdr.'s Cross, Order of Polonia Restituta, Medal of 30th Anniversary of People's Poland. *Address:* Ministerstwo Spraw Zagranicznych PRL, Al. I Armii Wojska Polskiego 23, 00-580 Warsaw, Poland.

WOJTYLA, H.E. Cardinal Karol (see John Paul II, His Holiness Pope).

WOLD, Harman O. A., D.SC.; Swedish professor of statistics; b. 25 Dec. 1908, Skien, Norway; s. of Edward M. and Betzy Omberg Wold; m. Anna-Lisa Arrhenius 1940; one s. two d.; ed. Univ. of Stockholm. Prof. of Statistics, Univ. of Uppsala 1942-70; Vice-Pres. Int. Inst. of Statistics 1957-61; Fellow Swedish Acad. Sciences 1960; mem. Nobel Econ. Science Prize Cttee. 1969; Pres. Econometric Soc. 1966; Prof. of Statistics, Univ. of Gothenburg 1970-75, Emeritus 1975-; Visiting Prof. Univ. of Geneva 1978-; Hon. Fellow Royal Statistical Soc. (U.K.) 1961; Hon. mem. American Econ. Assn. 1978; Foreign Hon. mem. American Acad. Arts and Sciences 1978. *Publications:* A Study in the Analysis of Stationary Time Series 1938, Demand Analysis 1952 (Several translations), Bibliography on Time Series and Stochastic Processes (Editor) 1965, Mergers of Economics and Philosophy of Science 1969, Interdependent Systems: Structure and Estimation (Co-Author) 1970, The University in Transition I-IV 1972-75, Ways and Means of Multidisciplinary Studies 1978, Model Construction and Evaluation when the Problems Explored are Complex and Theoretical Knowledge is Scarce 1979. *Leisure interests:* skiing. *Address:* Department of Econometrics, University of Geneva, 12 rue de Candolle, CH1211 Geneva 4, Switzerland; Kyrkogårdsgatan 19, Uppsala 75235, Sweden. *Telephone:* 018-145004 (Sweden).

WOLD, Knut Getz, M.ECON.; Norwegian banker and economist; b. 3 Aug. 1915, Verdal; s. of Trygve and Anna Ella (née Getz) Wold; m. Astrid M. Graver; one s. two d.; ed. Oslo and Stockholm Univs.; Research Assoc., Oslo Univ. 1939-40; Adviser to Norwegian Ministry of Finance in London 1941-45, in Oslo 1945-46; Under-Sec., Ministry of Social Affairs, Oslo 1946-48; Dir. Foreign Trade Div., Ministry of Commerce 1948-58; Deputy Gov. Norges Bank (Bank of Norway) 1958-70, Gov. 1970-; Pres. Norwegian Econ. Assn. 1963-68; Commdr. Order of Dannebrog (Denmark), St. Olav (Norway), Order of the Falcon (Iceland). *Publications:* Kosthold og levestandard 1941, Plan for velstand, T.V.A. og Norge 1946, Levestandardens økonomi 1949, Økonomisk styring i et fritt samfunn 1975. *Address:* Norges Bank, Bankplassen 4, Oslo 1 (Office); 7 Fougstad Gt., Oslo 1, Norway (Home). *Telephone:* 41-21-20 (Office); 46-1710 (Home).

WOLFBEIN, Seymour Louis, PH.D.; American government official and educator; b. 8 Nov. 1915, New York; s. of Samuel Wolfbein and Fannie Katz; m. Mae Lachterman 1941; two d.; ed. Brooklyn Coll., and Columbia Univ. Research Assoc. U.S. Senate Comm. on Unemployment and Relief 1938; Economist, Research Div., Works Project Admin. 1939-42; Economist, Bureau of Labor Statistics, Dept. of Labor 1942-45, Head, Occupational Outlook Div. 1946-49, Head, Manpower and Productivity Div. 1949-50, Manpower and Employment Div. 1950-59, Dep. Asst. Sec. of Labor 1959-62, Dir. Office of Manpower, Automation and Training 1962-65, Economic Adviser to Sec. of Labor 1965-67; Visiting Prof. Univ. of Michigan 1950-; Adjunct Prof. American Univ. 1951-; Dean School of Business Admin., Temple Univ. 1967-78, J.A. Boettner Prof. of Business Admin 1978-; Comm. on Human Resources, Nat. Acad. of Sciences 1976-; Fellow, American Statistical Assn., American Assn. for Advancement of Science; Distinguished Service Award, Dept. of Labor 1955 and 1961; Eminent Man of Guidance Award 1970. *Publications:* Decline of a Cotton Textile City 1942, The World of Work 1951, Employment and Unemployment in the U.S. 1964, Employment, Unemployment and Public Policy 1965,

Education and Training for Full Employment 1967, Occupational Information 1968, Emerging Sectors of Collective Bargaining 1970, Work in the American Society 1971, Manpower Policy: Perspectives and Prospects 1973, Labor Market Information for Youths 1975, The Pre-Retirement Years 1977, Establishment Reporting in the U.S.A. 1978. *Leisure interest:* painting. *Address:* Temple University, Philadelphia, Pa. 19803, U.S.A. *Telephone:* 787-6955 Office).

WOLFENDEN, Baron (Life Peer), cr. 1974, of Westcott in the County of Surrey; **John Frederick Wolfenden,** Kt., C.B.E.; British educationalist; b. 26 June 1906; s. of late G. Wolfenden; m. Eileen Lemessurier Spilsbury 1932; one s. two d. (and one s. deceased); ed. Wakefield School, and Queen's Coll., Oxford. Henry Davison Scholar, Princeton Univ. 1928-29; Fellow, Tutor in Philosophy, Magdalen Coll., Oxford 1929-34; Headmaster Uppingham School 1934-44; Dir. Air Training Corps 1941; Headmaster Shrewsbury School 1944-50; Vice-Chancellor Reading Univ. 1950-63; Chair. Departmental Cttee. on Homosexual Offences and Prostitution 1954-57, Univ. Grants Cttee. 1963-68; Dir. British Museum 1969-73; First Pres. Chelsea Coll., London Univ. 1973-; Pres. Metropolitan Assoc. of Building Socs. 1978-, Chelsea Building Soc. 1978-, Nat. Childrens Bureau 1978-, numerous hon. degrees. *Publications:* The Approach to Philosophy 1932, The Public Schools Today 1949, How to Choose Your School 1952, Turning Points (memoirs) 1976. *Address:* The White House, Guildford Road, Westcott, near Dorking, Surrey, England. *Telephone:* 0306-5475.

WOLFF, Etienne Charles, PH.D.; French embryologist; b. 12 Feb. 1904; s. of Armand and Gabrielle Wolff; m. Emilienne Hennig 1927; ed. Univ. de Strasbourg. Asst. at Biological Laboratory of Wimereux, Univ. of Paris 1927-28; Asst. at Medical Faculty, Univ. of Strasbourg 1933-37; Assoc. Prof. of Biology, Univ. of Strasbourg 1937-42, Prof. of Zoology and Embryology 1942-55; Prof. Collège de France 1955-, Administrateur, Coll. de France 1965-75; Pres. Inst. Int. d'Embryologie 1960-68; Dir. Inst. of Embryology and Teratology, Centre Nat. de Recherche Scientifique 1947-74; Dir. Laboratory of Embryology, Ecole Pratique des Hautes Etudes, Paris; mem. Acad. Française, Acad. des Sciences, Acad. de Médecine; Assoc. mem. Acad. Royale de Belgique; Foreign mem. Royal Swedish Acad. of Sciences; Commdr. Légion d'honneur; Commdr. de l'Ordre Nat. du Mérite; Commdr. des Palmes Académiques; Prix de l'Institut de France; Dr. h.c. (Univs. of Ghent, Louvain and Geneva). *Publications:* Les changements de sexe 1946, La science des monstres 1948, Les chemins de la vie 1964, les pancrates, nos nouveaux maîtres 1975. *Address:* Collège de France, 11 place Marcelin-Berthelot, 75005 Paris 5e, 23-25 rue de l'Estrapade 75005 Paris, France (Home).

WOLF, Hans Julius, DR. IUR.; German professor of Roman law; b. 27 Aug. 1902, Berlin; s. of Bruno Wolff and Katharina Pinner; m. Sylvia A. Plann 1944; one d.; ed. Univ. of Berlin. Judge in Berlin 1932; staff mem. Thesaurus ling. Lat., Munich 1933-35; Prof. of Roman Law, Nat. Univ. of Panama 1935-39; Prof. of History, Oklahoma Coll. for Women, Chickasha, Okla. 1945-46; Prof. of History, Oklahoma City Univ. 1946-50; Law Librarian, Lecturer in Jurisprudence, Univ. of Kansas City (Mo.) 1950-52; Prof. of Roman Law, Univ. of Mainz 1952-55. Univ. of Freiburg (Germany) 1955-, Emer. 1970; mem. Heidelberg Acad. of Sciences; Corresp. mem. Munich, Göttingen, Athens Acads. of Sciences; D.Iur.h.c. (Athens). *Publications:* Written and Unwritten Marriages in Hellenistic and Postclassical Roman Law 1939, Roman Law, ■■ Historical Introduction 1951, Beiträge zur Rechtsgeschichte Altgriech. u.d. Hell.-Röm. Äg. 1961, Das Justizwesen der Ptolemäer 1962, Die att. Paragraphe 1966, Demosthenes als Advokat 1968, Opuscula Dispersa 1974, Das Recht der griech. Papyri Ägyptens in der Zeit der Ptolemäer und des Prinzipats, Organisation und Kontrolle des privaten Rechtsverkehrs (vol. II) 1978. *Leisure interest:* travel. *Address:* D7815, Kirchzarten, Schulhaustrasse 1935, Federal Republic of Germany. *Telephone:* 07661-4124.

WOLFF VON AMERONGEN, Otto; German industrialist; b. 6 Aug. 1918. Pres. Otto Wolff A.G.; mem. Board of Dirs. Exxon Corpn., New York; Chair., Deputy Chair. and mem. Supervisory Boards various nat. and int. corpns.; Pres. Asscn. of German Chambers of Commerce and Industry; Pres. Cologne Chamber of Commerce and Industry; Pres. Ostausschuss der Deutschen Wirtschaft. *Address:* Zeughausstrasse 2, Cologne, Federal Republic of Germany. *Telephone:* Cologne 16411.

WOLFSON, Sir Isaac, Bart., F.R.S.; British businessman; b. 17 Sept 1897; m. Edith Specterman 1926; father of Sir Leonard Wolfson (*q.v.*); ed. Queen's Park School, Glasgow. joined the Great Universal Stores Ltd. 1932, Man. Dir. 1934-; Chair. 1946-; mem. Worshipful Company of Pattenmakers, Grand Council British Empire Cancer Campaign; Hon. Pres. Weizmann Inst. of Science Foundation; Trustee Religious Centre, Jerusalem; Founder and Trustee the Wolfson Foundation, created 1955, mainly for the advancement of health, education and youth activities in the U.K. and British Commonwealth, Pres. (fmrly. Chair.) 1975-;Hon. Fellow Weizmann Inst. of Science, Israel, St. Edmund Hall, Oxford, Hon. F.R.C.P., Hon. F.R.C.S.; Hon. LL.D. (London, Glasgow, Cambridge, Manchester and Strathclyde); Hon. D.C.L. (Oxford); Einstein Award for Philanthropy 1967, Lehmann Award 1968. *Address:* 74 Portland Place, London, W.1, England. *Telephone:* 01-580-6441.

WOLFSON, Sir Leonard Gordon, Kt.; British retail executive; b. 1927; s. of Sir Isaac Wolfson (*q.v.*); m. Ruth Sterling 1949; four d.; ed. King's School, Worcester and Malvern Coll. Dir. Great Universal Stores Ltd. 1952-; Man. Dir. 1962-; Chair. Great Universal Stores Merchandise Corpn. Ltd. 1966-; Chair. and Founder Trustee Wolfson Foundation; Pres. Jewish Welfare Board; Patron Royal Coll. of Surgeons; Hon. Fellow Wolfson Coll., Cambridge, Wolfson Coll., Oxford St. Catherine's Coll., and Worcester Coll., Oxford Univ. Coll., London, Bar-Ilan, Israel; Hon. F.R.C.P., Hon. D.C.L. (Oxon), Hon. Ph.D. (Tel Aviv and Hebrew Univ.), Hon. LL.D. (Strathclyde); Hon. D.Sc. (Hull). *Leisure interests:* history, economics, bridge, golf. *Address:* Universal House, 251/256 Tottenham Court Road, London, W.1, England (Office).

WOLFSON, Louis Elwood; American industrialist; b. 28 Jan. 1912, St. Louis; s. of Morris David and Sarah (Goldberg) Wolfson; m. 1st Florence Ruth Monsky 1936 (died 1968) 2nd Patrice Jacobs; three s. one d.; ed. Univ. of Georgia; with M. Wolfson and Co. 1934-49; officer and Dir. Fla. Pipe and Supply Co. Inc., Jacksonville, Fla. 1934-49, M L and S Corpn., real estate and investments 1946-56; Pres. Southern Pipe and Supply Co., Orlando, Fla. 1948-57; controlling stockholder Tampa Shipbuilding Co. Inc. Fla. 1945-48; Officer, Ceco. Agency Corpn. 1948-; Chair. of Board Merritt-Chapman and Scott Corpn., New York 1951-69, and Pres. 1953-59; Chair. of Board New York Shipbuilding Corpn., Camden, N.J. 1953-61, Chair. Exec. Cttee. 1961-69; Chair. of Board Capital Transit Co., Washington 1951-56, Newport Steel Corpn. (Ky.) 1954-56; Dir. Montgomery Ward and Co. 1955-56, Revday Industries Inc. 1964-68; owner, Harbor View Farm (racing and breeding stable) 1958-; Trustee, Ga. Student Educ. Fund Inc., Wolfson Family foundation Inc., Mount Sinai Hosp., Miami Beach, Ga. Gridiron Secret Soc.; mem. Boys Estate Advisory Cttee., Board of Govs. Eleanor Roosevelt Cancer Foundation, American Cancer Soc. Cttee. to Advance World Wide Fight against Cancer; mem. Nat. Conf. Christians and Jews, Acad. of Political Science, Nat. Advisory Council, Synagogue Council of America, American Iron and Steel Inst.; mem. Thoroughbred Club of America, Nat. Steeple Chase & Hunt Asscns., United Hunts Racing Assn., New York, Thoroughbred Owners and Breeders Assn., Fla. Thoroughbred Breeders Assn., American Horse Council, Inc.; Hon. Alumnus, Hebrew Univ. of Jerusalem; Charter Day Award, Yeshiva Univ. 1958. *Address:* P.O. Box 4, Jacksonville, Fla. 32201 (Office); 10205 Collins Avenue, Bal Harbour, Fla. 33154, U.S.A. (Home).

WOLMAN, Abel, B.A., B.SC., D.ENG.; American emeritus professor and public health engineering consultant; s. of Morris Wolman and Rose Wachsman Wolman; m. Anne Gordon 1919; one s.; ed. Johns Hopkins Univ. Asst. Engineer to Div. Engineer, Maryland State Dept. of Health 1915-22, Chief Engineer 1922-39; Prof. in Sanitary Engineering and Water Resources, Johns Hopkins Univ. 1937-57, Prof. Emer. 1959-; Editor-in-Chief Journal of American Water Works Assn. 1921-37; Editor American Journal of Public Health 1955; Consultant to numerous American cities, state and federal agencies, and 50 foreign govts.; fmrly. Adviser Atomic Energy Comm., Tennessee Valley Authority, Army, Navy and Air Force, Office of Science and Tech., U.S. Geological Survey, U.S. Public Health Service, WHO, Int. Bank for Reconstruction and Devt., Pan American Health Org.; Pres. American Public Health Assn. 1939, American Water Works Assn. 1942; Chair. Nat. Water Resources Board of U.S. 1934-41; Board of Tech. Advisers Int. Boundary and Water Comm., U.S. and Mexico 1976, Task Force on Population Migration, City of Baltimore 1977; mem. Cttee. on Public Eng. Policy 1975, Cttee. on Int. Health, Inst. of Medicine, Nat. Acad. of Sciences, Report of ■ Study 1978, Nat. Acad. of Sciences, American Geophysical Union; Hon. mem. Nat. Acad. of Eng., American Soc. of Civil Engineers, American Water Resources Assn., American Public Works Assn., Int. Water Quality Research Council, Md. Public Health Assn.; Hon. Life mem., Board of Dirs., Technion, Haifa, Israel; Hon. Life Fellow, Franklin Inst.; Fellow American Assn. for Advancement of Science; Hon. D.Eng., LL.D. (Johns Hopkins Univ.), Hon. D.Sc. (Drexel Inst., Philadelphia), Hon. D.Hum.Litt.; Sedgwick Memorial Medal of American Public Health Assn. 1948, Special Award Lasker Foundation of American Public Health Assn. 1960, William Proctor Prize, Scientific Research Soc.

of America 1967, Lewis L. Dollinger Pure Environment Award, Franklin Inst., Philadephia 1968, American Water Works Assn., Publ. Award 1973, Milton Stover Eisenhower Medal 1973, U.S. Nat. Medal of Science 1974, Tyler Ecology Award 1976, Ben Gurion Award (Israel) 1976. *Publications:* Manual of Water Works Practice (Editor) 1925, Solving Sewage Problems by Fuller and McClintock (Editor, and Author of several chapters) 1926, The Significance of Waterborne Typhoid Fever Outbreaks (with Arthur E. Gorman) 1931; Water, Health and Society, selected papers 1969, and numerous articles 1919-68. *Leisure interests:* music, literature, walking, grandchildren. *Address:* 209 Ames Hall, The Johns Hopkins University, Baltimore, Md. 21218; 3213 North Charles Street, Baltimore, Md. 21218, U.S.A. (Home). *Telephone:* 301-235-8567 (Office); 301-235-7192 (Home).

WONDER, Stevie; American singer, musician and composer; b. (as Steveland Judkins Morris) 13 May 1950, Saginaw, Mich.; step-s. of Paul Hardaway; m. Syreeta Wright 1971 (divorced 1972); ed. Michigan School for the Blind; first appeared as solo singer at Whitestone Baptist Church, Detroit 1959; recording artist with Motown, Detroit 1960-70; founder Black Bull music publishing co. 1970; named Best Selling Male Soul Artist of Year (Nat. Assn. of Record Merchandisers) 1974; Grammy Awards (You Are the Sunshine of My Life, Innervisions, Superstition) 1974, (Fulfillingness' First Finale, Boogie on Reggae Woman, Living for the City) 1975. *Numerous recordings:* singles include Fingertips 1963, Uptight/Purple Raindrops 1965, Someday At Christmas/The Miracles of Christmas, I'm Wondering/Everytime I See You I Go Wild 1966, I was Made to Love Her/Hold Me 1967, Shoo-Be-Doo-Be-Doo-Da-Day/Why Don't You Lead Me To Love, You Met Your Match/My Girl 1968, For Once in My Life, I Don't Know Why, My Cherie Amour, Yester-Me, Yester-You, Yesterday, Never Had ■ Dream Come True, Signed, Sealed, Delivered, I'm Yours, Heaven Help Us All, Superstition, Higher Ground, Living For the City; albums include: Little Stevie Wonder: The Twelve-Year-Old Genius, Tribute To Uncle Ray, Jazz Soul, With A Song In My Heart, At The Beach, Uptight 1966, Down To Earth 1966, I Was Made To Love Her 1967, Someday At Christmas 1967, Stevie Wonder: Greatest Hits 1968, Music Of My Mind, Innervisions, Fulfillingness' First Finale. *Address:* c/o Motown Records, 6464 Sunset Boulevard, Hollywood Calif. 90028, U.S.A.

WOTNER, Sir Hugh Walter Kingwell, G.B.E., C.V.O., J.P., D.LITT.; British hotelier; b. 22 Oct. 1908; s. of Arthur Wontner; m. Catherine Irvin 1936; two s. one d.; ed. Oundle, and in France.; mem. Secretarial Staff of London Chamber of Commerce 1927-33; Gen. Sec. Hotels and Restaurants Assn. of Great Britain 1933-38; Sec. Coronation Accommodation Cttee. 1936-37; Asst. to Sir George Reeves-Smith at the Savoy Hotel 1938-41; Dir. of the Savoy, Claridge's and Berkeley Hotels, London 1940, Man. Dir. 1941-, Chair. 1948-; Chair. Savoy Theatre Ltd. 1948-, Eurocard Int., S.A., Lancaster Hotel, Paris 1973-; Trustee D'Oyly Carte Opera Trust, Coll. of Arms Trust, Southwark Cathedral Devt. Trust, Morden Coll., Temple Bar Trust; Chair. Exec. Cttee. British Hotels and Restaurants Assn. 1957-59, Council 1969-73; Pres. Int. Hotel Assn; 1962-65; Chair. Nutrition Cttee., Univ. Coll. Hosp. 1945-52. mem. Lloyds 1937-; mem. of Board British Travel Assn. 1950-69; mem. Historic Buildings Council for England 1968-73; Chair. Coronation Accommodation Cttee. 1952-53, Historic Houses Cttee. (British Tourist Authority) 1965-77; Master Worshipful Co. of Feltmakers 1962, 1973, of Clockmakers 1976; Clerk of Royal Kitchens 1953; Freeman of the City of London 1934, Alderman 1963-79, Sheriff 1970-71, Lord Mayor 1973-74; Lieut. of the City and J.P. 1963-. *Address:* 1 Savoy Hill, London, W.C.2; and Hedsor Priory, Hedsor, Buckinghamshire, England.

WOOD, Arthur M., B.L.; American Business executive; b. 27 Jan. 1913, Chicago; ed. Princeton Univ., Harvard Law School; service in Second World War; joined Sears, Roebuck and Co. 1946, Co. Sec. 1952-61, Vice-Pres. 1956, mem. Board of Dirs. 1959-, Vice-Pres. and Comptroller 1960-62, Vice-Pres. in charge of Far West Territory 1962-67, of Midwest Territory 1967, Pres. Feb. 1968-73; Chair. Board of Dirs. and Chief Exec. Sears Roebuck Foundation 1973-78; Chair. U.S. Industrial Payroll Savings Cttee. for Chicago 1974-; Dir. Allstate Insurance Co., Continental Illinois Corpn., Simpsons-Sears Ltd., Homart Devt. Co., Quaker Oats Co., Council for Financial Aid to Educ., United Way of America, Community Fund of Chicago; Trustee Tax Foundation Inc., Cttee. for Econ. Devt., Art Inst. of Chicago, Rush Presbyterian St. Luke's Medical Center; mem. President's Advisory Cttee. on Labor Man., Business Council, Nat. Industrial Energy Conservation Council. *Address:* Sears Tower, Chicago, Ill. 60684, U.S.A.

WOOD, Harland, A.B., PH.D.; American university professor of biochemistry; b. 2 Sept. 1907, Delavan, Minn.; s. of William C. and Inez (Goff) Wood; m. Mildred Lenora Davis 1929; three d.; ed. Macalester State and Iowa State Colls. Fellow, Nat. Research Council, Bacteriology Dept., Univ. of Wis. 1935-36; Asst. Prof., Bacteriology Dept., Iowa State Coll. 1936-43; Assoc. Prof., Physiological Chem. Dept., Univ. of Minn. 1943-46; Prof. and Dir. Dept. of Biochem., Western Reserve Univ. 1946-65, Prof. of Biochem., Case Western Reserve Univ. 1965-, Dean of Sciences 1967-69, Prof. 1970-78, Emer. 1978-; Pres. American Soc. of Biological Chemists 1959-60; Sec.-Gen. International Union of Biochemistry 1970-73; mem. Presidential Science Advisory Cttee., Washington D.C. 1968-72; Senior Fulbright Research Scholar, New Zealand 1955; Guggenheim Fellow 1962; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences, Bayerische Akad., Germany; Hon. Sc.D. (Malcalester Coll.); Hon. D.Sc. (Northwestern Univ.) 1972; Eli Lilly Award in Bacteriology 1942, Carl Neuberg Medal 1952, Glycerine Award 1954, Modern Medicine Award for Distinguished Achievement 1968, Lynen Lecture and Medal 1972; Senior Scholar Award to Australia 1976, Senior Scientist Humboldt Award, Germany 1979. *Publications:* Over 200 scientific papers; Editorial Cttee., Journal of Biological Chemistry 1949-54, and of Biochemistry 1964-69, 1975-78, Trends in Biochemical Science 1976-78. *Leisure interests:* skiing, hunting, fishing. *Address:* Department of Biochemistry, Case Western Reserve University, School of Medicine, 2109 Adelbert Road, Cleveland, Ohio 44106, U.S.A.

WOOD, Lee Blair, B.A.; American newspaper editor; b. 7 March 1893, Corry, Pa.; s. of Perrie Grant and Mary Lavinia (Laing) Wood; m. Mildred Louise Rody 1924; ed. Corry High School, and Amherst Coll. Reporter Cleveland Leader 1916-17; Telegraph Ed. Cleveland Press 1920-22, Night Ed. 1923-24, News Ed. 1924-25; Man. Ed. Oklahoma News 1925-27; News Ed. New York Telegram 1927-28, Man. Editor 1929-30 (New York World-Telegram and The Sun), Exec. Editor 1931-60, Editor 1960-62, Pres. 1962-65; Pres. Media Investment Co. (fmrly. Scripps-Howard Investment Co.) 1962-78. *Address:* c/o Scripps-Howard Newspapers, 200 Park Avenue, New York, N.Y. 10017; 773 Ridgebury Road, Ridgefield Conn. 06877 (Home).

WOOD, Rt. Rev. Maurice Arthur Ponsonby, D.S.C. M.A.; British ecclesiastic; b. 26 Aug. 1916; s. of Arthur S. Wood and Jane Elspeth (née Piper) Wood; m. 1st Marjorie Pennell 1947 (died 1954), two s. one d.; m. 2nd M. Margaret Sandford 1955, two s. one d.; ed. Monkton Combe School, Queens' Coll., Cambridge and Ridley Hall, Cambridge. ordained 1940; Curate, St. Paul's Portman Square, London 1940-43; Royal Naval Chaplain 1943-47; Rector, St. Ebbe's Oxford 1947-52; Vicar and Rural Dean of Islington 1952-61; Principal, Oak Hill Theological Coll., Southgate, London 1961-71; Bishop of Norwich 1971-; Hon. Chaplain, Royal Naval Reserve 1971-; entered House of Lords 1975; Chaplain, Commando Assn.; Gov. Monkton Combe School, Bath, Gresham's School, Norfolk. *Publications:* Like ■ Mighty Army 1956, Your Suffering 1959, Christian Stability 1968, To Everyman's Door 1968. *Leisure interests:* running, hockey, sailing. *Address:* The Bishop's House, Norwich, NR3 1SB, England. *Telephone:* Norwich 29001.

WOOD, Natalie, (Natasha Gurdin); American actress; b. 20 July, 1938 San Francisco; d. of Nicholas and Marie (née Kuleff) Gurdin; m. 1st Robert John Wagner 1957 (divorced 1962, remarried 1972, one d.; m. 2nd Richard Gregson 1969 (divorced 1972); one d.; screen début in Happy End 1943; *other films include* Miracle on 34th Street 1946, No Sad Songs For Me 1950, The Blue Veil 1952, Rebel Without ■ Cause 1955, Marjorie Morningstar 1958, Cash McCall 1960, Splendor in the Grass 1961, West Side Story 1961, Gypsy 1962, Sex and The Single Girl 1964, The Great Race 1966, Inside Daisy Clover 1966, Penelope 1966, Bob and Carol and Ted and Alice 1969, Peeper 1974, Fat Chance 1977; *television includes* The Affair 1973, Cat on ■ Hot Tin Roof 1977, From Here to Eternity 1979. *Address:* International Creative Management, 8899 Beverly Boulevard, Los Angeles, Calif. 90048, U.S.A.

WOOD, Rt. Hon. Richard Frederick, P.C., D.L.; cr. Life Peer June 1979; British politician; b. 5 Oct. 1920, London s. of 1st Earl of Halifax, K.G., O.M., G.C.I.E.; m. Diana Kellett 1947; one s. one d.; ed. Eton and New Coll., Oxford. Attaché, British Embassy, Rome 1940; army 1940-43, wounded; M.P. 1950-79; Parl. Private Sec. to Minister of Pensions 1951-53, to Minister of State, Board of Trade 1953-54, to Minister of Agric. and Fisheries 1954-55; Joint Parl. Sec., Ministry of Pensions and Nat. Insurance 1955-58; Parl. Sec., Ministry of Labour 1958-59; Minister of Labour 1958-59; Minister of Power 1959-63, of Pensions and Nat. Ins. 1963-64; Dir. Yorks. Conservative Newspapers 1947-55, Hulton Press 1953-55, F. J. C. Lilley and Co. Ltd. 1967-70, Hargreaves Ltd. 1974; Gov. Queen Elizabeth's Foundation for the Disabled 1946-77; Minister for Overseas Devt. 1970-74; Deputy Lieut. County of Humberside; Hon. Col., 4th Battalion, Royal Green Jackets; Hon. LL.D. (Shef-

field Univ.). *Leisure interests:* travel. *Address:* Flat Top House, Bishop Wilton, York Y04 1RY; and 49 Cadogan Place, London, SW1X 9RT, England.

WOOD, William B., III, PH.D.; American professor of biology; b. 19 Feb. 1938, Baltimore, Md.; s. of Dr. W. Barry Wood, Jr. and Mary L. Hutchins; m. Renate Marie-Elisabeth Hartisch 1961; two s.; ed. Harvard Coll., Stanford Univ. and Univ. of Geneva. Nat. Acad. of Sciences—Nat. Research Council Postdoctoral Fellow, Univ. of Geneva 1964; Asst. Prof. of Biology, Calif. Inst. of Tech. 1965-68, Assoc. Prof. 1968-70, Prof. 1970-77; Prof. of Molecular Biology, Univ. of Colorado, Boulder 1977-, Chair. of Dept. 1978-; mem. Nat. Acad. of Sciences , American Acad. of Arts and Sciences, American Soc. of Biological Chemists, Soc. for Developmental Biology. *Publications:* Biochemistry, A Problems Approach 1974, Molecular Design in Living Systems 1974, The Molecular Basis of Metabolism 1974, Molecular Biology of Eucaryotic Cells (with L. E. Hood and J. H. Wilson) 1975; articles in professional journals. *Leisure interests:* music, tennis, camping. *Address:* Department of Molecular and Cellular Biology, Univ. of Colorado, Boulder, Colo. 80309, U.S.A.

WOODCOCK, Rt. Hon. George, P.C., C.B.E.; British trade union official; b. 20 Oct. 1904, Walton-le-Dale, Lancs.; s. of Peter Woodcock and Ann (née Baxendale); m. Laura Mary McKernan 1933; one s. one d.; ed. Ruskin Coll., and New Coll., Oxford. Cotton weaver 1916-29; Sec. T.U.C. Research and Economic Dept. 1936-47; Asst. Gen. Sec. T.U.C. 1947-60, Gen. Sec. 1960-69; Chair. Comm. on Industrial Relations 1969-71; mem. cttee. on taxation of trading profits 1945-51; mem. cttee. on taxation treatment of retirement provisions 1950-54; mem. Royal Comm. on taxation of profits and income 1951-55; mem. British Guiana Constitutional Comm. 1954; mem. cttee. on working of the monetary system 1957-59; Vice-Chair. Nat. Savings Cttee. 1952-74; Gov. Admin. Staff Coll. 1957-67; Vice-Pres. ICFTU 1960-69; mem. Nat. Econ. Devt. Council (NEDC) 1962-69; Royal Comm. on Trade Unions and Employers' Asscns. 1965-68; numerous honorary degrees. *Address:* 24 Lower Hill Road, Epsom, Surrey, England. *Telephone:* Epsom 22694.

WOODCOCK, George, D. LITT., LL.D. F.R.G.S.; Canadian writer, b. 8 May 1912, Winnipeg, Man. s. of Samuel Arthur and Margaret Gertrude (Lewis) Woodcock; m. Ingeborg Hedwig Linzer 1949; ed. Sir William Borlase's School, Marlow, England, and Morley Coll. London. Eng. Dept. Great Western Railway, England 1929-40; has been a writer since then, with interruptions of farming and univ. teaching; lived in Canada 1949-, with periods of travel in Asia, North and South America, Oceania and most European countries; Editor, Now 1940-47; Asst. Prof. of English, Univ. of Washington 1954-56; Assoc. Prof. of English., Univ. of British Columbia 1956-63; Editor Canadian Literature 1959-77; Hon. LL.D.; Gov.-Gen.'s Award for Literature 1967; Molson Prize 1973. *Publications:* The White Island (poems) 1940, William Godwin 1946, The Writer and Politics 1948, The Anarchist Prince 1950, Pierre-Joseph Proudhon 1956, Incas and Other Men 1959, Anarchism 1962, Faces of India 1964, The Crystal Spirit 1966, The Doukhobors 1968, Odysseus Ever Returning 1970, Canada and the Canadians 1970, Herbert Read 1972, The Rejection of Politics 1972, Who Killed the British Empire? 1974, Notes on Visitations (poems) 1975, Gabrial Dumont 1975, Peoples of the Coast 1977, Thomas Merton, Monk and Poet 1978; articles in many British, U.S. and Canadian journals; many plays, documentaries and talks for Canadian Broadcasting Corpn.; scripts for films on South Pacific Islands and various Canadian themes. *Address:* 6429 McCleery Street, Vancouver, B.C. V6N 1G5. Canada. *Telephone:* (604) 266-9393.

WOODCOCK, Leonard; American labour leader and diplomatist; b. 15 Feb. 1911, Providence, R.I.; s. of Ernest and Margaret (née Freel) Woodcock; m. Loula Martin 1941; one s. two d.; m. 2nd Sharon Lee Tuohy 1978; ed. St. Wilfred's Coll. Oakmore, Northampton Town and Country School (England) and intermittent courses at Wayne State Univ. Regional Director, UAW 1947-55; Vice-Pres. UAW 1955-70; Pres. Int. Union, United Automobile, Aerospace and Agricultural Implement Workers of America (UAW) 1970-77; Chief U.S. Liaison Office, Peking 1977-78; Amb. to People's Repub. of China Jan. 1979-. *Leisure interests:* music and literature. *Address:* American Embassy, Peking, People's Republic of China.

WOODHOUSE, Hon. Christopher Montague, D.S.O., O.B.E., M.A.; British politician; b. 11 May 1917, London; s. of Lord and Lady Terrington; m. Lady Davina Lytton (Countess of Erne) 1945; two s. one d; ed. Winchester Coll., and New Coll., Oxford. commissioned R.A. 1940; commanded Allied Mil. Mission in German occupied Greece 1943-44; Asst. Sec. Nuffield Foundation 1947; served Foreign Office in Athens 1945 and Teheran 1951; Fellow of Trinity Hall, Cambridge 1949; Dir.-Gen. Royal Inst. of Int. Affairs 1955-59; M.P. for Oxford 1959-66, 1970-74; Parl. Sec. Ministry of Aviation 1961-62, Home Office 1962-64; Chief Editor Penguin Books 1960; Dir. of Educ. and Training, Confederation of British Industry 1966-70; Visiting Fellow Nuffield Coll. 1956; Fellow Royal Soc. of Literature; Legion of Merit (U.S.A.); Order of Phoenix with Swords (Greece); Conservative. *Publications:* Apple of Discord 1948, One Omen 1950, Dostoievsky 1951, The Greek War of Independence 1952, Britain and the Middle East 1959, British Foreign Policy since the Second World War 1961, Rhodes (with J. G. Lockhart) 1963, The New Concert of Nations 1964, The Battle of Navarino 1965, Postwar Britain 1966, The Story of Modern Greece 1968, The Philhellenes 1969, Capodistria 1973, The Struggle for Greece (1941-1949) 1976. *Leisure interests:* fishing, music. *Address:* Willow Cottage, Latimer, Bucks, England. *Telephone:* Little Chalfont 2627.

WOODRING, Wendell Phillips, PH.D.; American geologist and palaeontologist; b. 13 June 1891, Reading, Pa.; s. of James Daniel and Margaret Hurst Woodring; m. 1st Josephine Jamison 1918 (deceased), 2nd Merle Crisler Foshag 1965 (died 1977); two d. (one deceased); ed. Albright Coll., and Johns Hopkins Univ. Geologist, U.S. Geological Survey 1919-27, 1930-61; Prof. of Invertebrate Palaeontology, Calif. Inst. of Technology 1927-30; Emeritus mem. Nat. Acad. of Sciences (Thompson Medal 1967), American Philosophical Society; Pres. Geological Society of America 1953 (Penrose Medal 1949); Pres. Paleontological Soc. of America 1948 (Medal 1977); hon. Research Assoc. Smithsonian Inst. 1961-; Hon. Sc.D. (Albright Coll.). *Publications:* Geology of Republic of Haiti, Miocene Molluscs from Bowden, Jamaica, Geology of Kettleman Hills Oil Field, California, Geology and Palaeontology of Palos Verdes Hills, California, Geology and Palaeontology of Santa Maria District, California, Geology and Palaeontology of the Canal Zone and adjoining parts of Panama. *Leisure interest:* gardening. *Address:* U.S. National Museum of Natural History, Washington, D.C. 20560, U.S.A. *Telephone:* 202-381-5334.

WOODROOFE, Sir Ernest George, Kt., PH.D., LL.D., F.INST.P., F.I.CHEM.E.; British business executive; b. 6 Jan. 1912, Liverpool; s. of Ernest George and Ada (Dickinson) Woodroofe; m. 1st Margaret Downes 1938, 2nd Enid Grace Hutchinson Arnold 1962; one d.; ed. Leeds Univ. Dir. British Oil and Cake Mills Ltd. 1951-56; Dir. Unilever Ltd. and Unilever N.V., in charge of Research 1956-61, Vice-Chair. Unilever Ltd. 1961-70, Chair. 1970-74; Vice-Chair. Unilever N.V. 1970-74; Dir. Commonwealth Devt. Finance Co. Ltd. 1970-75, Schroders Ltd. 1974-, Burton Group 1974-, British Gas Corpn. 1974-, Guthrie Corpn. 1975-; Chair. Review Body on Doctors' and Dentists' Remuneration 1975-; Chair. Leverhulme Trust 1975-; Visiting Fellow, Nuffield Coll., Oxford 1972-; Hon. LL.D., Hon. D.Sc., D. Univ.; Commdr. Order of Orange-Nassau 1972. *Leisure interests:* fishing, golf, cinematography. *Address:* The Crest, Berry Lane, Worplesdon, Surrey, England. *Telephone:* Worplesdon 2666.

WOODRUFF, Sir Michael Francis Addison, Kt., F.R.S., F.R.C.S., D.SC.; British surgeon; b. 3. April 1911, London; s. of the late Prof. Harold Addison Woodruff and Margaret Ada Cooper; m. Hazel Gwenyth Ashby 1946; two s. one d.; ed. Wesley Coll., Melbourne, Queen's Coll., Univ. of Melbourne, Australia. served as Captain, Australian Army Medical Corps, Malaya 1940-46; Tutor in Surgery, Univ. of Sheffield 1946-48; Lecturer in Surgery, Univ. of Aberdeen 1948-52; Prof. of Surgery, Univ. of Otago, New Zealand 1953-56; Prof. of Surgery, Univ. of Edinburgh 1957-77, Emer. 1977-; Surgeon, Edinburgh Royal Infirmary 1957-77; fmr. Dir. Nuffield Transplantation Surgery Unit, Edinburgh; Foreign Assoc., Acad. de Chirurgie (France) 1964; Hon. mem. American Surgical Assn. 1965; Corresp. mem. Deutsche Gesellschaft für Chirurgie 1968; Hon. Fellow, American Coll. of Surgeons 1975; Lister Medal 1969. *Publications:* Deficiency Diseases in Japanese Prison Camps (with A. Dean Smith) 1951, Surgery for Dental Students (3rd Edn.) 1974, Transplantation of Tissues and Organs 1960, On Science and Surgery 1976; articles on surgical topics and transplantation and tumour immunology. *Leisure interests:* music, sailing. *Address:* The Bield, 506 Lanark Road, Juniper Green, Midlothian, EH14 5DH, Scotland. *Telephone:* (031) 441-1253.

WOODRUFF, Philip (see Mason, Philip).

WOODS, The Most Rev. Frank, K.B.E., M.A., D.D.; British ecclesiastic; b. 6 April 1907, Switzerland; s. of Edward Sydney and Clemence Rachel Woods; m. Jean M. Sprules 1936; two s. two d.; ed. Marlborough Coll., Trinity Coll., Cambridge, and Westcott House Theological Coll., Cambridge. Curate of St. Mary, Portsea 1931-33; Chaplain Trinity Coll., Cambridge and Examining Chaplain to Bishop of Bristol 1933-36; Vice-Principal Wells Theological Coll. 1936-45; Chaplain to the Forces 1939-45; Vicar of Huddersfield 1945-52; Rural Dean of Huddersfield 1945-52; Hon. Canon of Wakefield and Proctor in Convocation Wakefield 1947-52; Chaplain

to H.M. The King 1951-52; Bishop Suffragan of Middleton and Canon Residentiary of Manchester Cathedral 1952-57; Archbishop of Melbourne 1957-77; Chaplain (Victoria) Order of St. John of Jerusalem 1962-71; Primate of the Church of England in Australia 1971-77. *Leisure interests:* tennis, music, walking. *Address:* 2 Hughes Street, N. Balwyn, Victoria 3104, Australia.

WOODWARD, Joanne Gignilliat; American actress; b. 27 Feb. 1930, Thomasville, Ga.; m. Paul Newman (*q.v.*) 1958; three d.; ed. Louisiana State Univ. *Films include:* Count Three and Pray 1955, A Kiss Before Dying 1956, The Three Faces of Eve 1957, The Long Hot Summer 1958, Rally Round the Flag Boys 1958, The Sound and the Fury 1959, The Fugitive Kind 1959, From the Terrace 1960, Paris Blues 1961, The Stripper 1963, A New Kind of Love 1963, Signpost to Murder 1964, A Big Hand for the Little Lady 1966, A Fine Madness 1966, Rachel Rachel 1968, Winning 1969, W.U.S.A. 1970, They Might Be Giants 1971, The Effects of Gamma Rays on Man-in-the-Moon Marigolds 1972, The Death of a Snow Queen 1973, Summer Wishes, Winter Dreams 1973, The Drowning Pool 1975; *TV includes:* All the Way Home, See How She Runs 1978; numerous awards including Foreign Press Award for best actress 1957, Acad. Award 1957, Nat. Board Review Award 1957, Best Actress Award, Soc. of Film and TV Arts 1974. *Address:* c/o Creative Management, Beverly Hills, Calif. 90067, U.S.A.

WOOLCOTT, Richard, B.A.; Australian diplomatist; b. 11 June 1928, Sydney; s. of Dr. and Mrs. A. R. Woolcott; m. Birgit Christensen 1952; two s. one d.; ed. Frankston High School, Geelong Grammar School, Univ. of Melbourne and London Univ. School of Slavonic and East European Studies; joined Australian Foreign Service 1951; served in Australian missions in London, Moscow (twice), S. Africa, Malaya, Singapore and Ghana; attended UN Gen. Assembly 1962; Acting High Commr. to Singapore 1963-64; High Commr. to Ghana 1967-70; accompanied Prime Ministers Menzies 1965, Holt 1966, McMahon 1971, 1972 and Whitlam 1973, 1974 on visits to Asia, Europe, the Americas and the Pacific; Adviser at Commonwealth Heads of Govt. Confs. London 1965, Ottawa 1973; Pacific Forum 1972, 1973; Australia-Japan Ministerial Cttee. 1972, 1973; Head, South Asia Div., Dept. of Foreign Affairs 1973; Deputy Sec. Dept. of Foreign Affairs 1974; Amb. to Indonesia 1975-78, to Philippines 1978-. *Publication:* Australian Foreign Policy 1973. *Address:* c/o Department of Foreign Affairs, Canberra, A.C.T. 2600, Australia.

WOOLDRIDGE, Dean E., M.S., PH.D.; American engineer; b. May 1913, Chickasha, Okla.; ed. Univ. of Okla. and Calif. Inst. of Technology; mem. tech. staff, Bell Telephone Labs. 1936-46; Dir. of Electronic Research and Devt., Hughes Aircraft Co. 1946, subsequently Vice-Pres. for Research and Devt.; Co-founder & Pres. Ramo-Wooldridge Corpn. 1953-58, Pres. Thompson Ramo Wooldridge Inc. (TRW Inc.) 1958-62, Dir. until 1969; Research Assoc. in Eng., Calif. Inst. of Technology 1962-; Chair. Nat. Inst. of Health Study Cttee. 1964, 1965; Fellow, American Acad. of Arts and Sciences, American Physical Soc., Inst. of Electrical and Electronic Engineers, American Inst. of Aeronautics and Astronautics; mem. Nat. Acad. of Sciences, Nat. Acad. of Eng.; Citation of Honor, Air Force Assn.; E. E. Hackett Award 1955; Distinguished Service Citation, Univ. of Okla. 1960, AAAS—Westinghouse Award for Science Writing. *Publications:* The Machinery of the Brain 1963, The Machinery of Life 1966, Mechanical Man: The Physical Basis of Intelligent Life 1968; several articles in journals and magazines. *Address:* 4545 Via Esperanza, Santa Barbara, Calif. 93110, U.S.A.

WOOLFORD, Harry Russell Halkerston, O.B.E. ; British art gallery director; b. 23 May 1905; ed. Edinburgh Coll. of Art; studied art in London, Paris and Italy. Consultant Restorer, Nat. Gallery of Scotland; Fellow Museums Assn., Int. Inst. for Conservation of Historic and Artistic works; Hon. M.A. (Dundee Univ.) 1976. *Address:* Dean Park, Golf Course Road, Bonnyrigg, Midlothian, Scotland. *Telephone:* 031-663-7949.

WOOLLCOMBE, Kenneth John, M.A., S.T.D.; British ecclesiastic; b. 2 Jan. 1924, Sutton, Surrey; s. of Rev. Edward P. Woollcombe O.B.E., and Elsie O. Wood; m. Gwendoline R. V. Hodges 1950 (died 1976); three d.; ed. Haileybury Coll., Technical Coll., Wednesbury, St. John's Coll., Oxford and Westcott House, Cambridge; Sub-Lieut., R.N.V.R. 1945-46; Curate, Grimsby Parish Church 1951-53; Fellow, Chaplain and Tutor, St. John's Coll., Oxford 1953-60; Prof. of Dogmatic Theology, Gen. Theological Seminary, New York 1960-63, Prin. of Episcopal Theological Coll., Edinburgh and Canon of St. Mary's Cathedral, Edinburgh 1963-71; Bishop of Oxford 1971-78; Chair. Soc. for Promotion of Christian Knowledge (S.P.C.K.) 1973-; Hon. Fellow St. John's Coll., Oxford 1971; Hon. S.T.D. (Univ. of the South, Sewanee, Tennessee) 1963; Hon. D.D. (Hartford, Conn.) 1975. *Publications:* Essays on Typology (joint author) 1957, and contributions to other theological publications. *Leisure interests:* reading, music. *Address:* 14 Manor Mansions, Belsize Grove, London NW3 4NB, England.

WOOLLEY, Sir Richard van der Riet, Kt., O.B.E., D.SC., F.R.S; British astronomer; b. 24 April 1906, Weymouth; s. of Paymaster Rear-Admiral C. E. A. Woolley, C.M.G., and Julia Woolley (née Van der Riet); m. Gwyneth Meyler 1932 (died 1979); ed, Univ. of Cape Town, and Gonville and Caius Coll., Cambridge; Commonwealth Fellow, Mt. Wilson Observatory 1929-31; Isaac Newton Student 1931-33; Chief Asst., Royal Observatory, Greenwich 1933-37; John Couch Adams Astronomer, Cambridge Univ. 1937-39; Dir. Commonwealth Solar Observatory, Australia 1939-55; Prof. of Astronomy, Australian Nat. Univ. 1950-55, Hon. Fellow 1955-; Vice-Pres. Int. Astronomical Union 1952-58; Pres. Australian and New Zealand Assn. for the Advancement of Science 1955; Astronomer Royal (England) 1956-71; Dir., South African Astronomical Observatory 1972-76; Pres. Royal Astronomical Soc. 1963-65; Master, Worshipful Company of Clockmakers 1969; Visiting Prof. of Astronomy, Univ. of Sussex; Hon. LL.D. (Melbourne), Hon. Dr. Phil. (Uppsala), Hon. D.Sc. (Cape Town), Hon. D.Sc. (Sussex); Gold Medal, Royal Astronomical Soc. 1971. *Publications:* Eclipses of the Sun and Moon (with Sir Frank Dyson) 1937, The Outer Layers of a Star (with D. W. N. Stibbs) 1953. *Leisure interest:* bridge. *Address:* Magnolia House, Hankham, Pevensey, Sussex, England.

WOOLSEY, Clinton Nathan, M.D.; American professor of neurophysiology; b. 30 Nov. 1904, Brooklyn, N.Y.; s. of Joseph Woodhull Woolsey and Lillian Matilda Aichholz; m. Harriet Runion 1942; three s.; ed. public schools, N.Y. State, Union Coll., Schenectady, N.Y., and Johns Hopkins Univ.; Asst. in Physiology, subsequently Assoc. Prof. of Physiology, Johns Hopkins Univ. School of Medicine 1933-48; Charles Sumner Slichter Prof. of Neurophysiology Univ.of Wis. 1948-75, Emer. 1975-; Dir. Lab. of Neurophysiology 1960-73, Biomedical Unit Co-ordinator Waisman Center on Mental Retardation and Human Devt 1973-78; mem. Nat. Acad. of Sciences; Fellow, American Assn. for the Advancement of Science, American Physiological Soc. and mem. several other professional orgs.; mem. Div. of Medical Science, Nat. Research Council 1952-58; consultant or mem. many nat. cttees; various awards and hon. lectureships. *Address:* 627 Waisman Center, University of Wisconsin, Madison, Wis. 53706 (Office); 106 Virginia Terrace, Madison, Wis. 53705, U.S.A. (Home). *Telephone:* 608-263-5924 (Office); 608-233-6094 (Home).

WOOTTON, Baroness (Life Peer), cr. 1958, of Abinger; **Barbara Frances Wootton,** C.H., M.A., J.P.; British social scientist; b. 14 April 1897, Cambridge; d. of James and Adela Marion Adam; m. 1st J. W. Wootton 1917 (died 1917), 2nd G. P. Wright 1935 (died 1964); ed. Cambridge Univ.; Dir. of Studies in Econs., Girton Coll., Cambridge 1920-22; Research worker, T.U.C. and Labour Party 1922-26; Principal, Morley Coll. for Working Men and Women 1926-27; Dir. of Studies in Adult Educ., Univ. of London 1927-44; Reader in Social Studies, Univ. of London 1944-48; Prof. of Social Studies, Univ. of London 1948-52; univ. research fellow 1952-57; Governor of the BBC 1950-56; Chair. Metropolitan Juvenile Courts 1946-62, Nat. Parks Comm. 1966-68, Countryside Comm. 1968-69; A Deputy Speaker of the House of Lords 1968-; Hon. Doctorates from Columbia Univ., New York and 11 British Univs. *Publications:* Twos and Threes 1933, Plan or No Plan 1934, London's Burning 1936, Lament for Economics 1938, Freedom Under Planning 1945, Testament for Social Science 1950, Social Foundations of Wage Policy 1955, Social Science and Social Pathology 1959, Crime and the Criminal Law 1963, In a world I never made 1967 (autobiog.), Contemporary Britain 1971, Incomes Policy: An Inquest and a Proposal 1974, Crime and Penal Policy 1978, Reflections on Fifty Years Experience 1978. *Leisure interest:* country life. *Address:* High Barn, Abinger Common, Dorking, Surrey, England. *Telephone:* Dorking 730 180.

WOOTTON, Charles Greenwood, M.A., N.D.C.; American diplomatist; b. 8 Aug. 1924, Elizabethtown, Ill.; s. of Estel C. Wootton and Sarah B. Greenwood; m. Elizabeth Grechko 1944; one s. five d.; ed. Columbia and Stanford Univs., Nat. Defence Coll. of Canada; Vice-Consul, Stuttgart 1949; Second Sec., American Embassy, Manila 1951; Consul, Vice-Consul, Bordeaux 1954; Int. Economist, Dept. of Commerce 1956; First Sec., Second Sec., Mission to European Communities 1959; Counsellor for Econ. and Commercial Affairs, American Embassy, Ottawa 1965; Counsellor for Econ. and Commercial Affairs, American Embassy, Bonn 1970, Minister 1971; Deputy Sec.-Gen. OECD 1974-; Chair. Standing Group of Secs. Gen. of Co-ordinated Int. Orgs. 1974-78, OECD Ad Hoc Group on Steel Industry 1977-78; Superior Honor Medal, Dept. of State 1964, Golden Sports Medal (Fed. Germany) 1973. *Leisure interests:* jogging, squash, other sports, reading. *Address:* Organi-

zation for Economic Co-operation and Development, Château de la Muette, 2 rue André-Pascal, 75775 Paris, Cedex 16, France. *Telephone:* 524-8020.

WORLOCK, Most Rev. Archbishop Derek John Harford; British ecclesiastic; b. 4 Feb. 1920; s. of Capt. Harford and Dora (Hoblyn) Worlock; ed. St. Edmund's Coll., Ware; ordained Roman Catholic priest 1944; Curate, Our Lady of Victories, Kensington 1944-45; Private Sec. to Archbishop of Westminster 1945-64; Private Sec. to Archbishop of Westminster 1945-64; Rector and Rural Dean, Church of St. Mary and St. Michael, London, E.1 1964-65; Bishop of Portsmouth 1965-76; Privy Chamberlain to Pope Pius XII 1949-53; Domestic Prelate of the Pope 1953-65; Peritus at Vatican Council II 1963-65; Consultor to Council of Laity 1967-76; Episcopal Sec. to Roman Catholic Bishops' Conf. 1967-76; Archbishop of Liverpool and Metropolitan of the Northern Province 1976-; mem. Synod Council 1976-, Holy See's Laity Council 1977-, Cttee. for the Family 1977-; English del. to Int. Synod of Bishops 1974, 1977; Knight Commdr. of the Holy Sepulchre of Jerusalem 1966. *Publications:* (Compiler) Seek Ye First 1949, Take One at Bedtime (anthology) 1962, English Bishops at the Council 1965, Turn and Turn Again 1971, Give Me Your Hand 1977. *Address:* The Archbishop's House, 87 Green Lane, Liverpool, L18 2EP, England.

WORMS, Gérard Etienne; French company director; b. 1 Aug. 1936, Paris; s. of André Worms and Thérèse Dreyfus; m. Michèle Rousseau 1960; one s. one d.; ed. Lycées Carnot, Saint-Louis, and Ecole Nat. Supérieure des Mines, Paris; Engineer, Org. commune des régions sahariennes 1960-62; Head of Dept., Délégation à l'Aménagement du Territoire et à l'Action Régionale 1963-67; Tech. Adviser, Office of Olivier Guichard (Minister of Industry, later of Planning) 1967-69, Office of Jacques Chaban-Delmas (Prime Minister) 1969-71; Asst. Man. Dir., Librairie Hachette 1972-75, Man. Dir. 1975-; Prof., Ecole des Hautes Etudes Commerciales 1962-69, Supervisor of complementary courses, Faculty of Letters and Human Sciences, Paris 1963-69; Prof. Ecole Polytechnique 1974-; Chevalier, Ordre nat. du Mérite, Chevalier, Ordre du Mérite maritime. *Publications:* Les méthodes modernes de l'économie appliquée 1965; various articles on economic methods in specialized journals. *Address:* 61 bis, avenue de la Motte Piquet, 75015 Paris, France. *Telephone:* 783-99-43.

WORMSER, Olivier Boris; French fmr. diplomatist; b. 29 May 1913; m. Simone Colomb 1946; two s.; ed. Ecole libre des sciences politiques; French Embassy, Rome 1933; with Cabinet of Ministry of French Overseas Territories 1934; Cabinet of Under-Sec. of State for Foreign Affairs 1936; Lecturer, Faculty of Law, Dijon 1938-39; Del. of French Cttee. for Nat. Liberation, London 1943; Sec. to French Embassy, London 1945; with Cen. Admin. 1948, Dir. of Econ. and Financial Affairs, Ministry of Foreign Affairs 1954-66; Amb. to the U.S.S.R. 1966-68; Gov. Bank of France 1969-74; Dir. Bank for Int. Settlements; Amb. to Fed. Repub. of Germany 1974-77; mem. Supervisory Board Royal Dutch Co.; mem. Acad. des sciences morales et politiques 1979; Grand Officer, Légion d'honneur. *Address:* 72 rue de Cherche-Midi, Paris 6e, France. *Telephone:* 548-7234.

WORTH, Irene, C.B.E.; American actress; b. 23 June 1916; ed. Univ. of Calif. at Los Angeles; Daily Mail Nat. Television Award 1953-54; British Film Acad. Award for Orders to Kill 1958; Page One Award, Newspaper Guild of New York, for Toys in the Attic 1960; American Theatre Wing "Tony" Award for Tiny Alice 1965; Evening Standard Award for Noel Coward Trilogy 1966; Whitbread Anglo-American Theatre Award 1967; Variety Club of Great Britain Award 1967; Tony Award and Jefferson Award for Sweet Bird of Youth 1975; Drama Desk Award for The Cherry Orchard 1977; first appeared ■ Fenella in Escape Me Never, New York 1942; debut on Broadway ■ Cecily Hardern in The Two Mrs. Carrolls 1948; London appearances in Love Goes to Press 1946, The Play's the Thing 1947, Edward My Son 1948, Home is Tomorrow 1948, Champagne for Delilah 1949, The Cocktail Party 1950, Othello 1951, A Midsummer Night's Dream 1952, The Other Heart 1952, The Merchant of Venice 1953, A Day by the Sea 1953-54, The Queen and the Rebels 1955, Hotel Paradiso 1956, Maria Stuart 1958, The Potting Shed 1958, King Lear 1962, The Physicists 1963, The Ides of March 1963, A Song at Twilight 1966, Shadows of the Evening 1966, Come into the Garden Maud 1966, Heartbreak House 1967, Oedipus 1968, Notes on ■ Love Affair, Lyric Theatre, other appearances include: The Cocktail Party, New York 1950, Old Vic tour of S. Africa 1952, Shakespeare Festival, Stratford, Ont. 1953, 1959, A Life in the Sun, Edinburgh Festival 1955, Maria Stuart, New York 1957, Toys in the Attic, New York 1960, Royal Shakespeare Theatre, Stratford 1962, World tour of King Lear 1964, Tiny Alice, New York 1965, worked with Peter Brook's Int. Theatre Research Centre, Paris and Iran 1970, 1971, Hedda in Hedda Gabler, Stratford, Ont. 1970, The Seagull, Chichester Festival Theatre 1973, Ghosts, The Seagull, Hamlet, Greenwich Theatre 1974, Sweet Bird of Youth, Kennedy Center, Washington D.C., Brooklyn Acad. of Music, and Harkness Theatre, New York, Drake Theatre, Ill. 1975, Misalliance, Drake Theatre, Lake Forest, Ill. 1976, The Cherry Orchard, Lincoln Center 1977, Old Times, Ill. 1977; films include: Orders to Kill 1957, The Scapegoat 1958, King Lear, Nicholas and Alexandra 1971. *Address:* c/o Milton Goldman, 6th Floor, 40 West 57th Street, New York, N.Y. 10019, U.S.A.

WORTHINGTON, Edgar Barton, C.B.E., F.L.S., F.R.G.S., PH.D.; British biologist; b. 13 Jan. 1905, London; s. of Edgar Worthington and Amy Beale; m. Stella Johnson 1930 (died 1978); three d.; ed. Rugby School, and Gonville and Caius Coll., Cambridge; Frank Smart Student Gonville and Caius Coll. during Fishing Surveys of African Lakes 1927-30; Balfour Student Cambridge Univ. 1930-33, Leader Expedition to E. African Lakes; Demonstrator in Zoology Cambridge Univ. 1933-37; Scientist for African Research Survey 1934-37; Dir. Freshwater Biological Assen. of British Empire 1937-46; Scientific Adviser Middle East Supply Council 1943-45; Devt. Adviser, Uganda 1946; Scientific Sec. Colonial Research Council 1946-49; Seconded as Scientific Sec. East Africa High Comm. 1947-51; Sec.-Gen. Scientific Council for Africa South of the Sahara 1951-55; Deputy Dir.-Gen. (Scientific) Nature Conservancy, London 1956-65; Scientific Dir. of Int. Biological Programme 1965-75; Hon. mem. Int. Union for Conservation of Nature 1978; Mungo Park Medal of Royal Scottish Geographical Soc. 1938; Knight of the Golden Ark (Netherlands) 1976. *Publications:* Fishing Survey of Lakes Albert and Kioga 1929, Fisheries of Uganda 1932, Inland Waters of Africa (with Stella Worthington) 1933, Science in Africa 1938, Middle East Science 1946, Development Plan for Uganda 1947, Life in Lakes and Rivers (with T. T. Macan) 1951, Survey of Research and Scientific Services in East Africa 1952, Science in the Development of Africa 1958, Man-made Lakes: Problems and Environmental Effects (Editor) 1973, The Evolution of IBP 1975, Arid-land Irrigation: Environmental Problems (Editor) 1977, The Nile 1978. *Leisure interests:* field sports, farming. *Address:* Colin Godmans, Furner's Green, nr. Uckfield, Sussex TN22 3RR, England. *Telephone:* Chelwood Gate 322.

WOUK, Herman, A.B.; American writer; b. 27 May 1915, New York; s. of Abraham Isaac Wouk and Esther Levine; m. Betty Sarah Brown 1945; three s. (one deceased); ed. Columbia Univ.; radio script-writer for leading comedians, New York 1935-41; publicity work for U.S. Treasury 1941-42; served U.S.N.R. 1942-46; Visiting Prof. of English, Yeshiva Univ., N.Y. 1952-57; Trustee, Coll. of the Virgin Islands 1962-69; mem. Authors' Guild, U.S.A., Author's League; Hon. L.H.D. (Yeshiva Univ.); Hon. D.Litt. (Clark Univ.); Pulitzer Prize for Fiction 1952, Columbia Univ. Medal of Excellence. *Publications:* Aurora Dawn 1947, The City Boy 1948, Slattery's Hurricane 1949, The Traitor (play) 1949, The Caine Mutiny (novel) 1951, The Caine Mutiny Court-Martial (play) 1953, Marjorie Morningstar 1955, Nature's Way (play) 1957, This is my God 1959, Youngblood Hawke (novel) 1962, Don't Stop the Carnival (novel) 1965, The Winds of War (novel) 1971, War and Remembrance 1978. *Leisure interests:* Hebraic studies, travel. *Address:* c/o H. Matson, 22 East 40th Street, New York, N.Y. 10016, U.S.A.

WOYTOWICZ-RUDNICKA, Stefania; Polish concert singer; b. 8 Oct. 1922, Orynin; d. of Michał and Domicela Zwolakowska Woytowicz; m. 1952; ed. State Higher School of Music; concerts in Europe, U.S.A., China, Japan; tour of Singapore, Hong Kong, New Zealand, India with Australian Broadcasting Comm.; contract with Deutsche Grammophon; also recorded with RCA Victor, Supraphon, Polskie Nagrania and others; participates in Vienna Festival, Edinburgh Festival, Warsaw Autumn and others; Pres. Gen. Board, Warsaw Music Assen.; First Prize in Prague Spring Int. Singing Competition 1954, State Prize (2nd Class) 1964, Officer's Cross, Order of Polonia Restituta 1968, Orpheus Prize, Polish Musicians' Assen. 1967, Diploma of Ministry of Foreign Affairs 1970, Medal of 30th Anniversary of People's Poland 1974, Prize of Minister of Culture and Arts (1st Class) 1975, Prize of Union of Polish Composers 1978, Prize of daily "Trybuna Ludu" 1978. *Address:* Al. Przyjaciół, 00-565 Warsaw, Poland.

WRAN, Neville Kenneth, LL.B., Q.C., M.L.A.; Australian barrister and politician; b. Sydney; m. Jill Hickson 1976; one s. one d. by previous marriage; ed. Fort Street Boys' High School, Sydney Univ.; mem. of N.S.W. Legis. Council 1970-73; Deputy Leader of Opposition 1971-72; Leader of Legis. Council 1972-73; mem. N.S.W. Legis. Assembly for Bass Hill 1973-; Leader of Opposition 1973-76; Premier of N.S.W. May 1976-; Branch and Electorate Council

positions; mem. Cen. Exec. N.S.W. Branch, Labor Party; mem. N.S.W. Legal and Constitutional Cttee. and Fed. Legal and Constitutional Cttee.; fmr. mem. Health Cttee; Labor. *Leisure interests:* reading, walking, swimming, cycling, tennis. *Address:* 8th Floor, State Office Block, Corner of Macquarie and Bent Streets, Sydney, N.S.W., Australia. *Telephone:* 270 4389.

WRIEDT, Kenneth Shaw; Australian politician; b. 11 July 1927; s. of Frederick and Ivy Ethleen (Renfrey) Wriedt; m. Helga Anne-Rose Burger 1959; two d.; ed. Univ. High School, Melbourne; served in the Merchant Navy 1944-58; State Insurance Office, Tasmania 1958-67; mem. Senate 1967-; Minister of Primary Industry 1972-73; Minister for Agric. June 1974-Nov. 1975; Leader of Govt. in Senate Feb.-Nov. 1975; Leader of Opposition in Senate 1976-; Labor Party. *Leisure interests:* classical music, collecting historical nautical publications. *Address:* Parliament House, Canberra, A.C.T.; Marine Board Building, Hobart, Tasmania; 25 Corinth Street, Howrah, Hobart, Tasmania 7018, Australia (Home).

WRIGGE, Friedrich Wilhelm, DR.ING.; German business executive; b. 22 Dec.1906, Hanover; s. of Heinrich Wrigge and Frieda Neddenriep; m. Käte Harcke 1934; one s. two d.; ed. Technische Hochschule, Hanover; Asst. Technische Hochschule, Hanover 1929; Chemist, Vereinigte Aluminiumwerke AG 1937, mem. Administrative Board 1957-, Chief Spokesman 1973-. *Address:* Vereinigte Aluminiumwerke AG. 53 Bonn 1, Postfach 626 (Office); Am Stadtwald 43, 53 Bonn 2, Federal Republic of Germany (Home). *Telephone:* 02221-353674 (Home).

WRIGHT, Sir Denis Arthur Hepworth, G.C.M.G.; British diplomatist (retd.); b. 23 March 1911, Kingston upon Thames; m. Iona Craig 1939; ed. Brentwood School and St. Edmunds Hall, Oxford; Asst. Advertising Man., Gallaher and Co. Ltd. 1935-39; Vice-Consul, Constanza 1940-41, Trebizond 1941-43; Acting Consul, Mersin 1943-45; Commercial Sec., Belgrade 1946-48; Consul, Chicago 1949-51; Head, Econ. Relations Dept. Foreign Office 1951-53; Chargé d'affaires and Counsellor, Teheran 1953-55; Asst. Under-Sec. of State, Foreign Office 1955-59, 1962; Amb. to Ethiopia 1959-62, to Iran 1963-71; retd. 1971; Gov. Centre for Int. Briefing, Farnham Castle; Pres. British Inst. of Persian Studies; Dir. Chartered Bank, Standard Bank, Standard Chartered Banks Ltd., Mitchell Cotts Group, and Shell Transport and Trading Co., Hon. Fellow, St. Edmund Hall and St. Antony's Coll., Oxford. *Publications:* Persia (with J. Morris and R. Wood) 1969, The English amongst the Persians 1977. *Address:* Duck Bottom, Flint Street, Haddenham, Aylesbury, Bucks., England. *Telephone:* Haddenham 291086.

WRIGHT, Georg Henrik von, M.A., DR. PHIL.; Finnish philosopher; b. 14 June 1916, Helsinki; s. of Tor von Wright and Ragni Elisabeth Alfthan; m. Baroness Maria Elisabeth von Troil 1941; one s. one d.; ed. Helsinki and Cambridge Univs.; Lecturer in Philosophy, Univ. of Helsinki 1943-46; Prof. of Philosophy, Univ. of Helsinki 1946-61; Prof. of Philosophy, Univ. of Cambridge 1948-51; sometime Fellow, Trinity Coll., Cambridge; Visiting Prof., Cornell Univ. 1954, 1958, Univ. of Calif. 1963, Univ. of Pittsburgh 1966, Univ. of Karlsruhe 1975; Gifford Lecturer Univ. of St. Andrews 1959-60; Research Fellow, Acad. of Finland 1961-; Andrew D. White Prof.-at-Large, Cornell Univ. 1965-77; Chancellor of Åbo Acad. 1968-77; Tarner Lecturer, Trinity Coll., Cambridge 1969; Woodbridge Lecturer, Columbia Univ. 1972; Nellie Wallace Lecturer, Univ. of Oxford 1978; Pres. Philosophical Soc. of Finland 1962-73; Pres. Int. Union of History and Philosophy of Science 1963-65, Inst. Int. de Philosophie, Paris 1975-78; Fellow, Finnish Soc. of Sciences, Royal Swedish Acad. of Sciences, British Acad., Royal Danish Acad. of Sciences; Hon. Foreign mem. American Acad. of Arts and Sciences; Dr. h.c. (Helsinki, Liverpool, Lund Univ., Turku); Wihuri Foundation Int. Prize 1976. *Publications:* The Logical Problem of Induction 1941, A Treatise on Induction and Probability 1951, An Essay in Modal Logic 1951, Logical Studies 1957, The Varieties of Goodness 1963, Norm and Action 1963, The Logic of Preference 1963, An Essay in Deontic Logic 1968, Explanation and Understanding 1971, Causality and Determinism 1974. *Address:* 4 Skepparegatan, Helsinki, Finland. *Telephone:* 655-192.

WRIGHT, James Claude, Jr.; American politician; b. 22 Dec. 1922, Fort Worth, Tex.; s. of James C. and Marie (née Lyster) Wright; m. Betty Hay 1972; one s. three d. (by previous marriage); ed. Weatherford Coll. and Univ. of Texas; army service 1942-45, D.F.C., Legion of Merit; Partner, advertising and trade extension firm; mem. Texas Legislature 1947-49; Mayor of Weatherford, Tex. 1950-54; mem. League of Texas Municipalities, Pres. 1953; fmr. Lay Minister in Presbyterian Church; mem. for Fort Worth (12th District of Tex.), U.S. House of Reps. 1954-, Deputy Democratic Whip until 1976, Majority Leader in House of Reps. Dec. 1976; mem. Democratic Steering and Policy Cttee. in House, Vice-Chair. Dec.1976-; has served on Budget Cttee.; fmr. Chair. Public Works and Transportation Cttee.; fmr. mem. Govt. Operations Cttee.; fmr. Chair. Comm. on Highway Beautification; Cand. for U.S. Senate 1961. *Publications:* You and Your Congressman 1965, The Coming Water Famine 1966, Of Swords and Plowshares 1968; co-author: Congress and Conscience 1970. *Address:* Rayburn House Office Building, Washington, D.C. 20515, U.S.A.

WRIGHT, H.E. Cardinal John Joseph; American ecclesiastic; b. 18 July 1909, Dorchester, Boston; ed. Boston Coll., St. John's Seminary, Brighton, North American Coll., Rome, Pontifical Gregorian Univ., Rome; ordained 1935; Titular Bishop of Egee 1947; Bishop of Worcester 1950-59, of Pittsburgh 1959-69; Prefect of Congregation for the Clergy 1969-78; cr. Cardinal 1969; mem. Board Nat. Inter-religious Cttee. for Peace; mem. American Acad. of Arts and Sciences; Knight Commdr. of the Holy Sepulchre, Officier Légion d'honneur, Officer Order of Merit of the Italian Republic. *Publications:* Words in Pain, The Christian and the Law, The Church: Hope of the World, Conscience and Authority. *Address:* Piazza della Città Leonina 9, 00193 Rome, Italy.

WRIGHT, Sir (John) Oliver, G.C.V.O., K.C.M.G., D.S.C.; British diplomatist; b. 6 March 1921, London; m. Marjory Osborne 1942; three s.; ed. Solihull School, and Christ's Coll., Cambridge; Royal Navy 1941-45; joined Foreign Office Nov. 1945; served New York 1946-47, Bucharest 1948-50, Singapore 1950-52, Berlin 1954-56, Pretoria 1957-58; Imperial Defence Coll. 1959; Asst. Private Sec. to Foreign Sec. 1960-63, Private Sec. Jan.-Nov. 1963; Private Sec. to Prime Minister 1963-66; Amb. to Denmark 1966-69; U.K. Rep. to Northern Ireland Govt. Aug. 1969-March 1970; Deputy Under-Sec. of State and Chief Clerk, FCO 1970-72; Deputy Under-Sec. for EEC and Econ. Affairs 1972-75; Amb. to Fed. Repub. of Germany 1975-. *Leisure interests:* theatre, gardening. *Address:* British Embassy, Friedrich-Ebert-Allee 77, Bonn, Federal Republic of Germany; Burstow Hall, nr. Horley, Surrey, England (Home). *Telephone:* Horley 3494.

WRIGHT, Judith Arundell; Australian writer; b. 31 May 1915; Armidale, N.S.W.; m. J. P. McKinney; one d.; ed. New England Girls' School, Armidale, N.S.W., and Sydney Univ.; Commonwealth Literary Fund Scholarship 1949, 1962; Lecturer in Australian literature at various Australian univs.; Fellow, Australian Acad. of Humanities; Hon. D.Litt. (Queensland, New England, Sydney 1976, Monash 1977); Senior Writers' Fellowship, Australia Council 1977-79; Encyclopaedia Britannica Writers' Award 1964. *Publications:* Poetry: The Moving Image 1946, Woman to Man 1949, The Gateway 1953, The Two Fire 1955, A Book of Birds 1962, Five Senses 1963, The Other Half 1966, Collected Poems 1971, Alive 1972, Fourth Quarter 1976, The Double Tree 1978; criticism: Charles Harpur 1963, Preoccupations in Australian Poetry 1964, Because I Was Invited 1975; anthologies: A Book of Australian Verse 1956, New Land, New Language 1957; biography: The Generations of Man 1958; short stories: The Nature of Love 1966; also books for children. *Address:* "Edge", Half Moon Wildlife District, Mongarlowe, N.S.W. 2622, Australia.

WRIGHT, Louis Booker, PH.D., F.R.S.A., F.R.S.L., F.R.HIST.S.; American librarian and historian; b. 1 March 1899, Greenwood, S.C.; s. of Thomas Fleming and Lena Booker Wright; m. Frances Marion Black 1925; one s.; ed. Wofford Coll., and Univ. of North Carolina; Newspaper Corresp. and Editor 1918-23; Dept. of English Univ. of N.C. 1926-32; Guggenheim Fellow, England and Europe 1928-29, 1930; Visiting Scholar, Huntington Library 1931-32, mem. Perm. Research Group 1932-48; Visiting Prof. of Bibliography and Research Methods, Univ. of Calif., Los Angeles 1934-48; Assoc. mem. of Faculty, Calif. Inst. of Technology 1932-48; Dir. Folger Shakespeare Library 1948-68; Chair. Advisory Board, John Simon Guggenheim Memorial Foundation 1950-71; Vice-Chair., Board of Dirs., Council on Library Resources 1956-; mem. Board of Dirs., Henry Francis du Pont Winterthur Museum 1955-77, Harry S. Truman Library Inst. 1956-; Chair. Board of Visitors, Tulane Univ. 1970-76; Life Trustee Shakespeare Birthplace Trust, trustee Nat. Geographic Soc.; History Consultant Nat. Geographic Soc. 1971-; Benjamin Franklin Medal, Royal Soc. of Arts 1969; Hon. O.B.E. 1968; Cosmos Club Award 1973; numerous hon. degrees. *Publications include:* Middle Class Culture in Elizabethan England 1935, 1959, The First Gentlemen of Virginia 1940, The Secret Diary of William Byrd of Westover 1709-1712 1941, The Atlantic Frontier 1947, 1959, The History and Present State of Virginia 1705 by Robert Beverley 1947, Culture on the Moving Frontier 1952, The Cultural Life of the American Colonies 1957, William Byrd of Virginia, The London Diary 1717-1721, and Other Writings 1958, Shakespeare for Everyman 1964, The Dream of Prosperity in Colonial America 1965, The Prose Works of William Byrd of Westover (editor) 1966, Folger Library General Reader's Shake-

speare (editor), Gold, Glory and the Gospel 1970, West and by North: North America Seen Through the Eyes of its Seafaring Discoverers 1971, and The Moving Frontier: North America Seen Through the Eyes of its Pioneer Discoverers 1972 (with Elaine W. Fowler), Barefoot in Arcadia: Memories of ■ More Innocent Era 1974, Of Books and Man 1976. *Leisure interests:* dry fly fishing, walking. *Address:* National Geographic Society, 17th and M Streets, N.W., Washington, D.C. 20036 (Office); 3702 Leland Street, Chevy Chase, Md. 20015, U.S.A. (Home). *Telephone:* 223-3426 (Office); 652-5509 (Home).

WRIGHT, Sir Oliver (*see* Wright, Sir John Oliver).

WRIGHT, Sir Rowland Sydney, Kt., C.B.E., B.SC., F.R.S.A., F.R.I.C., F.B.I.M.; British business executive; b. 4 Oct. 1915, Northampton; s. of late Sydney H. Wright and Elsie M. Wright; ed. High Pavement School, Nottingham and Univ. Coll. Nottingham; joined ICI Ltd. (Dyestuffs Div.) 1937; Production Dir. Imperial Chemical (Pharmaceuticals) Ltd. 1955-57; Production Dir. Dyestuffs Div. 1957-58; Research Dir. 1958-61; Joint Man. Dir. ICI Ltd., Agricultural Div. 1961-63, Chair. Agricultural Div. 1964-65; Dir. ICI Ltd. 1966; Personnel Dir. 1966-70; Dir. AE & CI Ltd. 1970-75, Deputy Chair. 1971-75; Deputy Chair. ICI Ltd. 1971-75; Chair. 1975-78; Chair. Blue Circle Industries Ltd.; Chair. Reorganization Cttee. for Eggs 1967-68; mem. Council, Foundation for Management Educ. 1967-70, Council of Chemical Industries Assen. 1968-73, British Shippers' Council 1975-78; Dir. Royal Insurance Co. Ltd. 1973-, Barclays Bank Ltd. 1977-, non-exec. Dir. Hawker-Siddeley Group 1979-; Gov. London Graduate School of Business Studies 1975-78; Pres. Inst. of Manpower Studies 1971-77, Hon. Pres. 1977-; Vice-Pres. Soc. of Chemical Industry 1971-74; Fellow, British Inst. of Management; Hon. F.I.Chem.E.; Trustee Civic Trust 1975-78; Hon. LL.D. (St. Andrews 1977, Queen's Univ., Belfast 1978, Nottingham 1978). *Leisure interests:* gardening, photography. *Address:* Blue Circle Industries Ltd., Portland House, Stag Place, London SW1E 5BJ, England. *Telephone:* 01-828 3456.

WRIGHT, Roy W., C.B.E.; British mining executive; fmr. Dir. Brush Eng. Co.; joined Rio Tinto Zinc Corpn. 1952; subsequently Man. Dir. Rio Tinto Mining Co. of Canada; Deputy Chair., Deputy Chief Exec. Rio Tinto Zinc Corpn. 1965-75, non-exec. Dir. 1975-; Chair. Electronics Industry Econ. Devt. Cttee. of Nat. Econ. Devt. Office 1971-76; non-exec. Dir. Palabora Mining Co., Rio Tinto S. Africa Ltd., Rio Algom Ltd., Davy Int. Ltd., A.P.V. Holdings Ltd., Lornex Mining Co. (fmr. Chair.), Transportation Systems and Market Research. *Address:* Cobbers, Forest Row, Sussex, England.

WRIGHT, Sewall, B.S., M.S., D.SC.; American biologist; b. 21 Dec. 1889, Melrose, Mass.; s. of Philip Green Wright and Elizabeth Quincy Sewall; m. Louise Lane Williams 1921; two s. one d.; ed. Lombard Coll., Univ. of Illinois, and Harvard Univ.; Ernest D. Burton, Distinguished Service Prof. of Zoology, Univ. of Chicago 1937-54; Fulbright Prof. Univ. of Edinburgh 1949-50; Leon J. Cole Prof. of Genetics, Univ. of Wis. 1955-60, Prof. Emer. 1960-; Pres. Genetics Soc. of America 1934; Pres. American Soc. of Zoologists 1944; Pres. American Soc. of Naturalists 1952, Soc. for the Study of Evolution 1955; Pres. 10th Int. Genetics Conf. 1958; mem. U.S. Philosophical Soc., Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Foreign mem. Royal Soc. (England), Royal Danish Acad. of Sciences and Letters; Hon. F.R.S.E., Genetical Soc.; Nat. Medal of Science 1966; many hon. degrees. *Publications:* on genetics of guinea pigs, inbreeding, cross-breeding, statistical consequences of Mendelian heredity, evolution, Evolution and the Genetics of Populations Vol. 1 1968, Vol. 2 1969, Vol. 3 1977, Vol. 4 1978. *Leisure interest:* travel. *Address:* 3905 Council Crest, Madison, Wis. 53711, U.S.A.

WRISTON, Walter B., B.A., M.A.; American banker; b. 3 Aug. 1919, Middleton, Conn.; s. of late Henry Merritt Wriston and late Ruth Bigelow; m. Kathryn A. Dineen 1968; one d.; ed. Wesleyan Univ., The Fletcher School of Law and Diplomacy, Ecole Française and American Inst. of Banking; Junior Insp., Comptrollers Div., First Nat. City Bank 1946-48, Senior Insp. 1948-49, Domestic Div. 1949-50, Asst. Cashier 1950-52, Asst. Vice-Pres. 1952-54, Vice-Pres. 1954-58, European Dis. 1956-58, Sr. Vice-Pres. 1958-59, in charge of Overseas Div. 1959-67, Exec. Vice-Pres. 1960-67, Pres. and Dir. Citibank N.A. 1967-70; Chair. and Dir. Citibank N.A. and CITICORP 1970- and other cos.; Trustee The Rand Corpn.; mem. Nat. Comm. for Industrial Peace 1973-74, Advisory Cttee. on Reform of Int. Monetary System, Labor-Management Advisory Cttee., Business Council; Hon. LL.D. (Lawrence Coll., Brown, Tufts, Fordham and Columbia Univs.), D.C.S. (Pace, New York and St. John's Univs.), D.H.L. (Lafayette Coll.). *Address:* Citibank N.A., 399 Park Avenue, New York, N.Y. 10043, U.S.A.

WROŃSKI, Stanislaw; Polish politician; b. 17 June 1916, Sielec, Jedrzejów district; ed. Warsaw Univ. and Inst. of Social Sciences, Cen. Cttee. of Polish United Workers' Party, Warsaw; mem. Communist Union of Polish Youth 1930-36, Polish Workers' Party 1945-48, Polish United Workers' Party (PUWP) 1948-; Deputy mem. Cen. Cttee., PUWP 1964-68, mem. 1968-; Lecturer, Inst. of Social Sciences 1950-56; Scientific Worker, Polish Acad. of Sciences and Mil. Historical Inst. 1957-62; Pres. and Editor-in-Chief, Publishing Co-operative "Książka i Wiedza" 1963-71; Deputy to Seym: Vice-Chair. Seym Comm. of Culture and Art 1969-72; Minister of Culture and Art 1971-74, without Portfolio Feb.-June 1974; mem. Council of State 1974-; Chair. Gen. Board ZBoWiD (Union of Fighters for Freedom and Democracy) 1972-; Editor-in-Chief Nowe Drogi 1974-; mem. Polish Inst. of Int. Affairs, Int. of History of Polish-Soviet Friendship, Polish Acad. of Sciences, mem. Cen. Board Soc. for Polish-Soviet Friendship, Deputy Pres. FIR May 1978-; mem. other scientific councils, etc.; Order of Banner of Labour, Grunwald Cross. *Publications:* numerous papers on modern history. *Address:* Ul. Piotra Maszyńskiego, 00-485 Warsaw, Poland. *Telephone:* 28-09-61 (Office).

WRZASZCZYK, Tadeusz, M.ENG.; Polish politician; b. 12 Sept. 1932, Stradom; ed. Technical Univ., Warsaw; Constructor at Wireless Factory T-1, Warsaw 1954-56; managerial posts at Motor-Car Factory (FSO), Warsaw 1956-65, Chief Engineer 1962-65; Vice-Chair. Gen. Board, Polish Mechanical Engineers and Technicians Assen. 1960-65; Dir.-Gen., Motorization Industry Union 1965-70; Asst. Prof. Inst. of Motor Vehicles, Warsaw Technical Univ. 1970-; Minister of Engineering Industry 1970-75; mem. Cen. Cttee. Polish United Workers' Party (PZPR) 1971-, deputy mem. Political Bureau of Cen. Cttee. Dec. 1975-; Vice-Chair. Council of Ministers Oct. 1975-; Chair. Planning Comm. attached to Council of Ministers 1975-; Deputy to Seym 1976-; Order of Banner of Labour (2nd class) and other decorations. *Address:* Komisja Planowania przy Radzie Ministrów, Plac 3 Krzyży 315, Warsaw, Poland.

WU CHIEN-SHIUNG, PH.D.; American professor of physics; b. 31 May 1912, Shanghai, China; d. of Mr. and Mrs. Z. Y. Wu; m. Dr. Luke C. L. Yuan 1940; one s.; ed. Nat. Central Univ. and Univ. of California; Prof. of Physics, Columbia Univ. 1958-; mem. of Nat. Acad. of Sciences; Pres. American Physical Soc. 1975; Hon. Fellow, Royal Soc. of Edinburgh; Dr. h.c. (Princeton, Yale, Harvard and Rutger's Univs. and Smith and Goucher Colls., Chinese Univ. of Hong Kong); Research Co-operation Award, Comstock Award of Nat. Acad. of Sciences, Woman of the Year Award of American Assen. of Women, Chia-Hsin Outstanding Achievement Award, Nat. Medal of Science 1975. *Publications:* Beta Decay (with S. A. Moszkouski), Experimental Nuclear Physics (Co-Editor with Luke C. L. Yuan), Weak Interaction (with T. D. Lee), Muon Physics (3 vols.) 1976, 1977. *Address:* 15 Claremont Avenue, New York, N.Y. 10027, U.S.A.

WU CHUNG; Chinese army officer; on "Long March" 1934; Company Commdr. 1937, Div. Commdr. 1949; Sec. CCP Peking 1971; Commdr. Peking Garrison District PLA 1973; Alt. mem. 9th Cen. Cttee. CCP 1969, 10th Cen. Cttee. 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

WU HSIU-CHUAN; Chinese politician; b. 1903, Hupeh; ed. Middle School, Wuhan, Moscow; Prof. of Politics, Futan Univ., Shanghai 1931; Instructor, Red Army School, Kiangsi 1932; Dir. Foreign Affairs Dept. CCP 1936; Dir. Dept. of Soviet Union and East European Countries, Ministry of Foreign Affairs 1949-52, Vice-Minister of Foreign Affairs 1951-55; Amb. to Yugoslavia 1955-58; joined CCP 1925, Deputy Dir. Int. Liaison Dept. CCP 1964, mem. 8th Cen. Cttee. CCP 1956; Deputy Chief of Gen. Staff, PLA 1975-. *Address:* People's Republic of China.

WU KE-HUA; Chinese party official; Commdr. PLA Railway Corps. 1973; Commdr. Chengtu Mil. Region, PLA 1977-79, Urumqi Units 1979-; Alt. mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

WU KUEI-HSIEN; Chinese party official; b. 1935; woman worker in textile mill at N.W. State Cotton Mill No. 1, Sian; mem. Shensi Revolutionary Cttee. 1968; mem. 9th Cen. Cttee. of CCP 1969; Deputy Sec. CCP Shensi 1971; Alt. mem. Politburo, CCP 1973-77; Vice-Premier of State Council 1975-78; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

WU LIEH; Chinese government official; Political Commissar, Peking Units 1978-. *Address:* People's Republic of China.

WU SHENG-JUNG; Chinese government official; Sec., CCP Honan Provincial Cttee. 1978-; Commdr. Tsinghai Prov. Mil. District 1978-. *Address:* People's Republic of China.

WU TAO; Chinese party official; b. 1915; Deputy political Commissar, Inner Mongolia Mil. Region, PLA 1960, Political Commissar 1967-; Vice-Chair. Inner Mongolia Revolutionary Cttee. 1967-; mem. 9th Cen. Cttee. CCP 1969, 10th Cen. Cttee. 1973. *Address:* People's Republic of China.

WU TA-SHENG; Chinese party official; Vice-Chair. Kiangsu Revolutionary Cttee. 1968; Political Commissar Kiangsu Mil. District PLA 1969-; mem. 9th Cen. Cttee. CCP 1969, 10th Cen. Cttee. 1973. *Address:* People's Republic of China.

WU TE; Chinese party official; b. 1914, Fengjun, Hopei; ed. China Univ., Peking; workers leader in Tangshan 1935; Regimental Political Commissar 1942; Vice-Minister of Fuel Industry 1949-50; Sec. CCP Pingyuan 1950-52; Deputy Sec. CCP Tientsin 1952-55; Deputy Mayor of Tientsin 1952-53, Mayor 1953-55; Pres. Tientsin Univ. 1952-57; Alt. mem. 8th Cen. Cttee. of CCP 1956; First Sec. CCP Kirin 1956-66; Political Commissar Kirin Mil. District, People's Liberation Army 1958; Sec. N.E. Bureau, CCP 1961; Second Sec. CCP Peking 1966; Acting Mayor of Peking 1966-78; Vice-Chair. Peking Revolutionary Cttee. 1967-72, Chair. 1972-78; mem. 9th Cen. Cttee. of CCP 1969; Head of Cultural Group, State Council 1971; Second Sec. CCP Peking 1971, First Sec. 1972-78; mem. Politburo, 10th Cen. Cttee. CCP 1973, and 11th Cen. Cttee. 1977; Second Political Commissar Peking Mil. Region, PLA; a Vice-Chair., Standing Cttee., Nat. People's Congress; Exec. Chair. Presidium 5th Nat. People's Congress 1978. *Address:* People's Republic of China.

WÜNSCHE, Kurt Hermann, PROF. DR. IUR.; German lawyer and politician; b. 14 Dec. 1929, Obernigk; s. of Dr. Phil. Hermann Wünsche and Hilde (née Wagner); m. Ursula Kreutzer 1952 (divorced 1972); one s.; m. 2nd Dr. Phil. Maria Dikowar 1972; one d.; ed. Schillerschule, Dresden, and Deutsche Akademie für Staats- und Rechtswissenschaft, Potsdam-Babelsberg; mem. Liberal Democratic Party (L.D.P.D.) 1946-, mem. Cen. Cttee. 1954-, Sec. of Cen. Man. Cttee. 1954-60, Deputy Sec.-Gen. L.P.D. 1960-65, Deputy Chair. 1967-72; Vice-Chair. of Council of Ministers of G.D.R. 1965-72; Minister of Justice 1967-72; mem. Volkskammer 1954-76, Presidium of League for People's Friendship 1961-71; Nat. Council of Nat. Front 1970-; Vice-Pres. G.D.R.-Latin-America Soc. 1976-; Prof. of Judicature Law, Humboldt Univ., Berlin 1972-; Vaterländischer Verdienstorden in Bronze and Silver, and other decorations. *Publications:* Funktion und Entwicklung der Liberal-Demokratischen Partei Deutschlands im Mehrparteiensystem der Deutschen Demokratischen Republik 1964, Zur Geschichte des Gerichtsverfassungsrechts/der DDR 1978. *Address:* 108 Berlin, Unter den Linden 6, German Democratic Republic.

WURMSER, René Bernard; French professor of biochemistry; b. 24 Sept. 1890, Paris; m. Sabine Filitti 1936; ed. Univ. of Paris; Dir. of Biophysical Lab. of Ecole des Hautes Etudes 1927-45; Prof. Faculté des Sciences, Univ. of Paris 1945-60, Hon. Prof. 1960-; mem. Acad. des Sciences. *Publications:* Recherches sur l'assimilation chlorophyllienne 1921, Oxydations et reductions 1930, Thermodynamique des réactions immunologiques 1954. *Address:* 36 rue de l'Université, 75007 Paris, France.

WURTH, Pierre, D. EN D.; Luxembourg diplomatist; b. 10 June 1926, Luxembourg; m. Jeanine Rentier 1968; ed. Lycée de Garçons, Luxembourg, and Univ. of Paris; Lawyer 1951-52; Ministry of Foreign Affairs, Luxembourg 1953-54; Luxembourg Embassy, Paris 1954-59; Deputy Chief, Political Section, Ministry of Foreign Affairs, Luxembourg, and Perm. Rep. to Council of Europe 1959-64; Perm. Rep. of Luxembourg to UN 1964-68; Amb. to U.S.S.R. and Poland 1968-71; Sec.-Gen., Ministry of Foreign Affairs 1971-. *Address:* Ministry of Foreign Affairs, 5 rue Notre Dame, Luxembourg.

WUTTKE, Hans A., DR.JUR.; German banker; b. 23 Oct. 1923, Hamburg; m. Maria M. Schorsch 1957; two s. two d.; ed. Univs. of Cologne and Salamanca; with Dresdner Bank AG 1949-54, Daimler-Benz AG 1954-61; Partner M. M. Warburg-Brinckmann, Wirtz and Co., Hamburg 1961-75; mem. Board, Man. Dir. Dresdner Bank AG, Frankfurt 1975-; Dir. S. G. Warburg and Co. Int. Holdings Ltd.; Chair. Comité Européen pour le Progrès Economique et Social (CEPES); Vice-Chair. Board Deutsch-Südamerikanische Bank AG; mem. Board Rolls-Royce Motors Ltd., German Devt. Co., Cologne, Standard Elektrik Lorenz AG, Chair. of Board Peek and Cloppenburg; Heidelberger Zement AG, Esso Aktiengesellschaft, Thyssen Edelstahlwerke AG, Australian-New Zealand Assen., East Asia Assen. *Address:* Dresdner Bank AG, Gallusanlage 7-8, 6000 Frankfurt am Main, Federal Republic of Germany. *Telephone:* (611) 2631.

WYART, Jean, D. ÈS S.; French university professor; b. 16 Oct. 1902, Avion; m. Madeleine Bourdon 1943; one s.; ed. Ecole Normale Supérieure; Asst. Univ. of Paris 1928, Deputy Prof. 1933-46; Prof. of Mineralogy, Sorbonne and Ecole de Physique et Chimie 1946-73; Sec. French Society of Mineralogy 1931-40, Pres. 1945; Dir. of Documentation Service of Nat. Centre of Scientific Research 1941-73; Pres. Int. Union of Crystallography 1957; mem. Acad. des Sciences 1959, Deutsche Akademie der Naturforscher Leopoldina 1966; Hon. mem. Royal Inst. 1960. *Leisure interests:* sport, travel. *Address:* Université de Paris, Tour 16, 4 Place Jussieu, 75230 Paris; 18 rue Pierre-Curie, Paris 5e, France (Home). *Telephone:* DAN 94-29.

WYCKOFF, Ralph Walter Graystone, B.S., PH.D.; American scientist; b. 9 Aug. 1897, Geneva, N.Y.; s. of Abram Ralph Wyckoff and Ethel Agnes Catchpole; m. Laura Kissam Laidlaw 1927; one s. two d.; ed. Hobart Coll., and Cornell Univ.; Instructor, analytical chemistry, Cornell Univ. 1917-19; Physical Chemist, Geophysical Lab., Carnegie Inst. of Washington 1919-27; Research Assoc., Calif. Inst. of Tech. 1921-22; Assoc. mem. Rockefeller Inst. for Medical Research 1927-37; with Lederle Labs. Inc. as scientist 1937-40, Assoc. Dir. in charge of virus research 1940-42; Technical Dir., Reichel Labs. Inc. 1942-43; Lecturer in epidemiology, Univ. of Mich. 1943-45; Senior Scientist, U.S. Public Health Service 1945; Scientist Dir. 1946-52; Foreign Service Reserve Officer (Science Office), American Embassy, London 1952-54; Biophysicist, P.H.S. Nat. Inst. of Health 1954-59; Prof. of Physics Univs. of Ariz. 1959-; Dir. de Recherches, Centre Nat. de la Recherche Scientifique, France 1958-62, 1969; Exchange Prof., Univ. of Paris 1965; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; foreign mem. Royal Netherlands Acad. of Sciences and Literature, Royal Society, London; foreign mem. Acad. des Sciences, Paris; hon. mem. Société Française de Minéralogie et de Crystallographie, Société Française de Microbiologie, Royal Microscopical Society, London; Hon. Fellow Indian Acad. of Sciences; Hon. M.D. (Masaryk Univ.); Hon. Sc.D. (Univ. of Strasbourg, Hobart Coll.). *Publications:* An Analytical Expression of the Results of the Theory of Space Groups 1922, The Structure of Crystals 1924, 1930, 1934, Crystal Structures 1948, 1951, 1953, 1957, 1958, 1959, 1960, 1963, 1964, 1965, 1966, 1968, 1969, 1971, Electron Microscopy 1949, The World of the Electron Microscope 1958, The Biochemistry of Animal Fossils 1972. *Address:* Department of Physics, University of Arizona, Tucson, Ariz. 85721, U.S.A.; Duval Coroporation, 4715 E. Fort Lowell Road, Tucson, Arizona 85712. *Telephone:* 602-881-6200.

WYETH, Andrew N.; American artist; b. 12 July 1917; ed. privately; artist, landscape painter 1936-; first one-man exhbn. William Macbeth Gallery, New York 1937; exhbns., Doll and Richard, Boston 1938, 1940, 1942, 1944; Macbeth Gallery 1938, 1941, 1943, 1945; Art Inst. of Chicago 1941; Museum of Modern Art, New York 1943; M. Knoedler and Co., New York 1953; M.I.T., Cambridge 1960; Dunn Int. Exhbn., London 1963; one-man exhbn., The White House, Washington, D.C. 1970, Tokyo 1974; mem. Nat. Inst. of Arts and Letters, American Acad. of Arts and Sciences; U.S. Presidential Medal of Freedom 1963; Einstein Award 1967; Hon. D.F.A. (Maryland). *Address:* Chadds Ford, Pa. 19317, U.S.A.

WYLER, William; American film director and producer; b. 1 July 1902, Mulhouse (Alsace); s. of Leopold and Melanie (Auerbach) Wyler; m. Margaret Tallichet 1938; one s. three d.; ed. Lausanne, and Coll. de France; Foreign Publicity for Universal Pictures one year; went to Hollywood as Asst. Dir. 1920; directed films for Universal, Twentieth-Century Fox, Samuel Goldwyn Productions, Warner Bros., M-G-M and Paramount; served U.S. Army 1942-45; awarded Air Medal and Legion of Merit (U.S.) and Légion d'honneur (France); Irving Thalberg Award of American Film Acad. 1966 and other awards. *Directed films:* Hell's Heroes 1931, A House Divided 1932, Counsellor-at-Law 1933, The Good Fairy 1934, The Gay Deception 1935, These Three 1936, Dodsworth 1936, Come and Get It 1937, Dead End 1937, Jezebel 1938, Wuthering Heights 1939 (New York Critics' Award), The Westerner 1939, The Letter 1940, The Little Foxes 1941, Mrs. Miniver 1942 (Acad. Award for direction), The Best Years of Our Lives 1946 (Acad. Award for direction and New York Critics' Award), The Heiress 1949, Detective Story 1951, Carrie 1952, Roman Holiday 1953, The Desperate Hours 1954, Friendly Persuasion 1956 (Cannes Film Festival Award), The Big Country 1957, Ben Hur 1958 (New York Critics' Best Film of the Year, "Oscar" for directing), The Children's Hour (The Loudest Whisper) 1962, The Collector 1965, How to Steal a Million 1965, Funny Girl 1967, The Liberation of L. B. Jones 1970. *Leisure interests:* skiing, travel, photography. *Address:* c/o Paul Kohner Inc., 9169 Sunset Boulevard, Los Angeles, Calif. 90069, U.S.A.

WYLIE, Sir Campbell, Kt., E.D., Q.C.; British Commonwealth judge; b. 14 May 1905, New Zealand; s. of William James Wylie

and Edith Grace Stagg; m. Leita Caroline Clark 1933; ed. Auckland Grammar School and Victoria Univ. of Wellington; Barrister and solicitor, New Zealand 1928; Barrister-at-law, Inner Temple, London 1950; private legal practice, New Zealand until 1940; New Zealand Expeditionary Force 1940-46; legal adviser, various Malay States 1945-51; Attorney-Gen. Barbados 1952-55, British Guiana 1955-56; Attorney-Gen. of West Indies 1956-59; Federal Justice, West Indies 1959-63; Chief Justice, Unified Judiciary of Sarawak, N. Borneo and Brunei 1962-63; Chief Justice, High Court in Borneo (Sarawak and Sabah) 1963-66; Law Revision Commr., Tonga 1966-67; Chief Justice of the Seychelles 1967-69; Commissioner for Law Reform and Revision, Seychelles 1970-72. *Address:* 11 Boomerang Crescent, Sorrento, Surfers Paradise, Queensland 4217, Australia. *Telephone:* 38-5532.

WYLIE, Laurence William; American university professor; b. 19 Nov. 1909, Indianapolis; s. of William H. and Maude Stout Wylie; m. Anne Stiles 1940; two s.; ed. Indiana Univ., Institut des Etudes Politiques, Paris, and Brown Univ.; Instructor, Simmons College 1936-40, Asst. Prof. 1940-43; Asst. Prof. Haverford Coll. 1943-48, Assoc. Prof. 1948-57, Prof. 1957-58, Chair. Dept. of Romance Languages 1948-59; C. Douglas Dillon Prof. of French Civilization, Harvard Univ. 1959-; Cultural Attaché, American Embassy, Paris 1965-67; mem. Modern Languages Assn., Soc. d'ethnographie française, American Acad. of Arts and Sciences, Int. Sociological Assn. *Publications:* Saint-Marc Girardin Bourgeois 1947, Village in the Vaucluse 1957, Deux villages 1966, Les français 1970, Beaux Gestes: A Guide to French Body Talk 1977; co-author: In Search of France 1962, Youth: Change and Challenge 1963, Chanzeaux, A Village in Anjou 1967, France: The Events of May-June 1968: A critical bibliography 1972; film: Rèpertoire des gestes-signes français 1973, Quand les gestes prennent la parole 1976. *Leisure interests:* swimming, running. *Address:* 1540 William James Hall, Harvard University, Cambridge, Mass. 02138 (Office); 997 Memorial Drive, Cambridge, Mass. 02138, U.S.A. (Home). *Telephone:* (617) 495-3834.

WYMAN, Jeffries, PH.D.; American molecular biologist; b. 21 June 1901, West Newton, Mass.; s. of Jeffries Wyman and Helen MacKay; m. 1st Anne McMaster Cabot 1928 (deceased), 2nd Rosamund Forbes 1945 (divorced), 3rd Olga Lodigensky 1955; one s. one d.; ed. Harvard Univ., Univ. of Cambridge and Univ. Coll., London; mem. subsequently Dir., Harvard Univ. Biological Labs. 1928-50; engaged on research for U.S. Navy during World War II; Scientific Adviser, U.S. Embassy, Paris 1950-53; Dir. UNESCO Middle East Science Co-operation Office, Cairo 1954-58; Sec.-Gen. European Molecular Biology Org. and mem. of Council 1964-69; Guest Scientist, Inst. of Biochemistry, Univ. of Rome and Regina Elena Inst. for Cancer Research, Rome 1960; Visiting Scientist, Fogarty Int. Center, Nat. Inst. of Health 1971; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences. *Publications:* Biophysical Chemistry: papers in molecular biology. *Leisure interests:* travelling, walking, painting. *Address:* Piazza Farnese 51, Rome, Italy; Les Collons-sur-Sion, Valais, Switzerland. *Telephone:* 560401 (Italy).

WYNNE-EDWARDS, Vero Copner, C.B.E., M.A., D.SC., F.R.S.C., F.R.S.E., F.R.S.; British zoologist; b. 4 July 1906, Leeds, Yorks.; s. of Rev. Canon J. R. Wynne-Edwards and Lilian Streatfeild; m. Jeannie Campbell Morris 1929; one s. one d.; ed. Leeds Grammar School, Rugby School and New Coll., Oxford; Student Probationer Marine Biological Laboratory Plymouth 1927-29; Asst. Lecturer Bristol Univ. 1929-30; Asst. Prof. Zoology McGill Univ. Montreal 1930-44, Assoc. Prof. 1944-46; Regius Prof. of Natural History Aberdeen Univ. 1946-74; Visiting Prof. of Conservation Univ. of Louisville, Kentucky 1959; Commonwealth Interchange Fellow, New Zealand 1962; Editor Journal of Applied Ecology 1964-68; Pres. British Ornithologists' Union 1965-70, Scottish Marine Biological Assn. 1967-73; Chair. Nat. Environmental Research Council 1968-71; mem. Royal Comm. on Environmental Pollution 1970-74; foreign mem. Societas Scientiarum, Finland; Hon. D.Univ. (Stirling), LL.D. (Aberdeen). *Publications:* Animal Dispersion in Relation to Social Behaviour 1962; and scientific articles, mainly on marine and Arctic birds and population ecology. *Leisure interests:* skiing, hill-walking, natural history. *Address:* Zoology Department, Tillydrone Avenue, Aberdeen AB9 2TN, Scotland; Ravelston, Torphins, Aberdeenshire AB3 4JR, Scotland (Home). *Telephone:* Aberdeen 40241 (Univ.); Torphins 434 (Home).

WYNTER, Hector Lincoln, M.A., J.P.; Jamaican educationist and journalist; b. 27 July 1926, Cuba; s. of late Percival and Lola (Parkinson) Wynter; m. 1st Jacqueline Antrobus 1956 (dissolved), 2nd Diana Ayee 1970; three s. two d.; ed. Havana, Oxford, and London Univs.; Teacher of Spanish 1945-49; Resident Tutor, Dept. of Extra-mural Studies, Univ. of W. Indies 1953-55, Deputy Registrar 1955-60, Dir. Extra-mural Studies 1960-63; Senator 1962-72; High Commr., Trinidad and Tobago 1963-64; Registrar, Univ. of W. Indies 1964-65; Parl. Sec. to Prime Minister on External Affairs 1965-67; Minister of State for Educ. 1967-69, for Youth and Devt. 1969-72; mem. Exec. Board UNESCO 1970-76, Chair. 1975-76, Chair. Finance Cttee. 1972-74; Exec. Editor Daily Gleaner 1974-76, Editor 1976-; Dir. Projects Assn. of Caribbean Univs. 1973; Chair. and mem. several statutory boards and voluntary asscns.; Rhodes Scholarship 1949, Commonwealth Scholarship 1949, UN Fellow 1952, Journalist of the Year 1973, Commonwealth Finance Journalism Scholarship 1975. *Publications:* numerous articles on education and politics. *Leisure interests:* cricket, horse-racing, reading law. *Address:* Daily Gleaner, 7 North Street, P.O. Box 40, Kingston (Office); 5 Monterey Drive, Kingston 6, Jamaica (Home). *Telephone:* 93-77110 (Home).

WYSCHOFSKY, Günter; German chemist and politician; b. 8 May 1929, Bischofswerda, Saxony; mem. Communist Party 1945, Socialist Unity Party (SED) 1946-; Head, Raw Materials Industry section of Secr. Cen. Cttee. SED 1960-62; Deputy Chair. G.D.R. State Planning Comm. 1962-65; Minister for the Chemical Industry May 1966-; Cand. mem. SED Cen. Cttee. 1963-64, mem. 1964-; Vaterländische Verdienstorden in Bronze and other decorations. *Address:* Ministerrat, Berlin, German Democratic Republic.

WYSZYŃSKI, H.E. Cardinal Stefan, DR.JUR.; Polish ecclesiastic; b. 3 Aug. 1901, Zuzela; s. of Stanisław and Julianna (née Karp) Wyszyński; ed. Univ. of Lublin; ordained Priest 1924; Prof. of Sociology and Canon Law, Higher Seminary Włocławek 1930-39; Rector of the Seminary and Canon of the Cathedral Assembly of Canons in Włocławek 1945; Bishop of Lublin 1946; Archbishop of Gniezno and Warsaw and Primate of Poland Nov. 1948-; Cardinal 1953; imprisoned 1953-56; organizer of Pastoral Great Novena of Millenium of Baptism in Poland 1957-66; Pres. of Second Vatican Ecumenical Council; Pastoral Protector of Polish Emigration 1964-. *Publications:* Główne typy Akcji Katolickiej za granicą 1931, Dzieło Ks. Kard. Ferrari. Ideały i prace społecznoapostolskie 1937, Przemiany moralno-religijne pod wpływem bezrobocia 1937, Stanowisko i zadanie duszpasterstwa wobec współczesnych ruchów społecznych 1938, Stolica Apostolska ■ świat powojenny, Duch pracy ludzkiej 1946, Droga Krzyżowa 1959, W światłach tysiąclecia 1961, Wielka Nowenna Tysiąclecia 1962. Gody w Kanie, Uświęcenie pracy zawodowej 1963, Matka Kościoła 1966, A Strong Man Armed 1966, The Deeds of Faith 1966, Per la Libertà e la pace degli Uomini 1967, Un évêque au service du peuple de Dieu 1968, U podstaw soborowej nauki o człowieku 1968, List do moich Kapłanów 1969, Miłość na Codzień 1971, Ojcze nasz-Rozważania 1971, A ponad wszystko większa jest miłość 1971, Kromka chleba 1972, Wspomnienia O Janie XXIII 1972, W sercu Stolicy 1972, Z gniazda Orląt 1972, Idzie nowych ludzi plemię 1973, Sursum Corda 1974, Kazania Świętokrzyskie 1974, 1975, 1976, Listy Pasterskie 1975, Druga kromka chleba 1977, Bochen Chleba 1977, Prymat człowieka ■ ładzie społecznym, Kobieta w Polsce Wspótczesnej 1978; works translated into many languages. *Address:* Ulica Miodow 17, 00-246 Warsaw, Poland. *Telephone:* 31 21 57.

X

XENAKIS, Iannis; French (b. Greek) composer, architect and engineer; b. 29 May 1922, Braïla, Romania; s. of Clearchos Xenakis and Fotini Pavlou; m. Françoise Xenakis 1953; one d.; ed. Athens Polytechnic Inst., École Normale de Musique, Paris (with Milhaud), Gravesano (with Scherchen) and Paris Conservatoire (under Messiaen); studied engineering in Athens; fought in Greek Resistance, World War II, condemned to death; went into exile in France 1947; collaborated as engineer and architect with Le Corbusier 1947-60; innovator of [redacted] concept of music, Stochastic Music and Symbolic Music through probability calculus and set theory into instrumental, electro-acoustic and computerized musical composition; designer, Philips Pavilion, Brussels World Fair 1958, sonic, sculptural and light composition Polytope for French Pavilion, Expo 1967 Montreal, music and light spectacle Persepolis on ruins and mountain, Persepolis, Iran, Polytope de Cluny, Paris 1972; founder and Dir. Equipe de Mathématique et Automatique Musicales, Paris, Center for Mathematical and Automated Music, Indiana Univ.; Assoc. Prof. Indiana Univ. 1967-72; Assoc. Prof. Univ. of Paris I; Gresham Prof. in Music, City Univ., London; mem. Centre Nat. de Recherche Scientifique, France; Hon. mem. American Acad. of Arts and Letters; Nat. Inst. of Arts and Letters; Maurice Ravel Gold Medal 1974; Beethoven Prize (Fed. Repub. of Germany) 1977. *Works include:* Metastasis (for orchestra) 1954, Pithoprakta (for string orchestra) 1956, Achorripsis (for 21 instruments) 1957, Symos (for 18 string instruments) 1959, Analogiques (for 9 string instruments and magnetic tape) 1959, ST/10-1,080262 (for 10 instruments) 1957-62, Atrées (for 10 instruments) 1962, Amorsima-Morsima (for 4 instruments) 1962, Stratégie (for 84 instruments and 2 conductors) 1963, ST/4-2 (for string quartet) 1962, Eonta (for piano and brass) 1963, Akrat 1965, Terretcktorh 1966, Nuits 1968, Nomos Gamma 1968, Persephassa 1969, Antikhthon 1971, Aroura 1971, Linaia-Agon 1972, Eridanos 1973, Cendrées 1974, Erikhthon 1974, Gmeeoorh 1974, Noomena 1974, Empreintes 1975, Phlegra 1975, Psappha 1975, N'Shima 1975, Khoaï 1976, Retours—Windungen 1976, Epeï 1976, Dmaathen 1976, Akanthos 1977, Kottos 1977, Le Diatope (Actions of Laser Beams, Electron, Flashes, 7-Track Tape music, computer controlled show in portable structure) 1978, Polytope at Mycenae 1978, Pleiades 1978 and other works for magnetic tape. *Publications:* Musiques formelles 1963, Formalized Music 1970, Musique Architecture 1970, Xenakis—les Polytopes 1975, and many articles. *Leisure interests:* camping and kayaks. *Address:* 17 rue Victor Massé, Paris 9e, France.

XUAN THUY; Vietnamese politician; b. 2 Sept. 1912, Hanoi; in numerous nat. liberation movements until 1945; later Editor Cuu Quoc (National Salvation—organ of the Viet-Minh); Pres. Asscn. of Journalists of Democratic Repub. of Viet-Nam; fmr. Deputy, Vice-Speaker and Sec.-Gen. of Nat. Assembly, Democratic Repub. of Viet-Nam; mem. Presidium Fatherland Front Cen. Cttee.; Deputy Head, del. Democratic Repub. of Viet-Nam to Geneva Conf. on Laos 1961-62; Minister of Foreign Affairs 1963-65; Minister of State to head Democratic Repub. of Viet-Nam's negotiating team, Paris 1968-73; Vice-Chair. Standing Cttee., Nat. Assembly of Socialist Repub. of Viet-Nam 1976-; mem. Secr. Cen. Cttee. Lao Dong Party until 1976, of Communist Party of Viet-Nam Dec. 1976-. *Address:* National Assembly, Hanoi, Viet-Nam.

Y

YAACOBI, Gad, M.SC.; Israeli politician b. 18 Jan. 1935, Moshav Kfar Vitkin; s. of Alexander and Sara Yaacobi; m. Tova Yaacobi 1956; three s.; ed. Tel Aviv Univ., School of Law and Econs.; mem. Moshavim Movt. 1960-67; Asst. to Minister of Agric., Head of Agric. and Settlement Planning and Devt. Centre 1960-66; mem. Cen. Cttee. Histadrut, Labour Union, Rafi Faction 1966-; Chair. Econ. Council Rafi Faction 1966-67; mem. Cen. Cttee., Secr. Labour Party; Asst. to Sec. Labour Party 1966-70; mem. Parl. (Knesset) 1969-, Parl. Finance Cttee. 1969-70, Parl. Defence and Foreign Affairs Cttee. 1974; Deputy Minister of Transport 1970-74, Minister 1974-77; Chair. Parl. Econ. Cttee. 1977-. *Publications:* The Quality of Power 1971, The Freedom to Choose 1975, and many articles on economics and politics. *Leisure interests:* theatre, reading. *Address:* c/o Israel Labour Party, P.O. Box 36, Tel Aviv; 13 Shivtei, Israel Street, Ramat, Hashron, Israel (Home).

YACÉ, Philippe; Ivory Coast politician; b. 23 Jan. 1920; ed. William Ponty School, Dakar; French Army 1940-45; mem. Democratic Party of Ivory Coast (PDCI) 1946-, Sec.-Gen. 1959-; mem. Territorial Assembly, Ivory Coast 1952-58; Deputy to Ivory Coast Constituent Assembly 1958-59; Senator of the French Community 1959-61; Pres. Nat. Assembly, Ivory Coast 1960-; Pres., High Court of Justice 1963-; Pres. Parl. Conference of EEC and African States 1969-; Grand Officier, Légion d'honneur, Grand Officier, Ordre National de la République de Côte-d'Ivoire. *Address:* National Assembly, B.P. 1381, Abidjan, Ivory Coast.

YADIN (formerly Sukenik), **Yigael,** M.A., PH.D.; Israeli politician; b. 21 March 1917, Jerusalem; s. of Chasia and Eleazar Sukenik; m. Carmella Ruppin 1941 (died 1976); two d.; ed. Hebrew Univ. of Jerusalem; Chief of Gen. Staff Branch, Hagana H.Q. 1947; Chief of Operations, Gen. Staff, Israel Defence Forces 1948; Chief of Gen. Staff Branch 1949, Chief of Staff, as Lt.-Gen. 1949-52; Archaeological Research Fellow, Hebrew Univ. 1953-54; Lecturer in Archaeology, Hebrew Univ. 1955-59, Assoc. Prof. 1959-63, Prof. 1963-; Dir. Excavations at Hazor 1955-58, 1969, Megiddo 1960, 1966-67, 1971, Judaean Desert Caves 1960-61, Masada 1963-65; Leader Democratic Movement for Change 1976-78, Democratic Movement 1978-; Deputy Prime Minister Oct. 1977-. *Publications:* The Scroll of the War of the Sons of Light against the Sons of Darkness 1955, 1956, The Message of the Scrolls 1957, A Genesis Apocryphon (with N. Avigad) 1958, Hazor I: The First Season of Excavations 1958, Hazor II 1959, Hazor III-IV 1961, The Art of Warfare in Biblical Lands 1963, Finds in the Bar-Kochba Caves 1963, Masada: First Season of Excavations 1965, The Ben Sirah Scroll from Masada 1965, Masada: Herod's Fort and the Zealots Last Stand 1966, Philacteries from Qunran 1969, Bar-Kochba 1971, Hazor-Schweich Lectures' Series 1972, Hazor 1975, The Temple Scrolls (3 vols.) 1977. *Leisure interests:* gardening, photography. *Address:* 47 Ramban Street, Jerusalem, Israel.

YADLIN, Aharon; Israeli politician; b. 17 April 1926; ed. Hebrew Univ.; Co-founder Kibbutz Hatzerim; fmr. mem. Presidium, Israel Scouts Movement; mem. Knesset (Parl.) 1959-; Deputy Minister of Educ. and Culture 1964-72; Gen. Sec. Israel Labour Party 1972; Minister of Educ. and Culture 1974-77. *Publications:* The Aim and The Movement 1969 and articles on sociology, education and youth. *Address:* Kibbutz Hatzerim, Mobile Post, Haneger, Israel.

YAFI, Abdullah Aref al-; Lebanese lawyer and politician; b. 1901; ed. Collège des Pères Jésuites, Beirut, and Univ. de Paris à la Sorbonne; admitted to Beirut Bar 1926; Prime Minister and Minister of Justice 1938-39; Lebanese del. to preparatory conf. for founding League of Arab States 1944, to San Francisco Conf. 1945; Minister of Justice Dec. 1946-April 1947; Prime Minister 1951-52, 1953-54, March-Nov. 1956, April-Dec. 1966, 1968-69, concurrently Minister of the Interior 1951-52, 1953-54, March-Nov. 1956, July-Oct. 1968, of Defence 1953-54, Feb.-Oct. 1968, of Information 1953-54, April-Dec. 1966, 1968-69, of Finance March-Sept. 1954, of Planning June-Nov. 1956, April-Dec. 1966, Feb.-July 1968, 1968-69, of Social Affairs 1968-69, of Education 1968-69. *Address:* rue Fouad Ier, Beirut, Lebanon.

YAGODIN, Gennadiy Alekseyevich; Soviet physical chemist; b. 3 June 1927; ed. Mendeleyev Chemical Technology Inst., Moscow; Deputy Dean, Mendeleyev Chemical Technology Inst., Moscow 1956-59, Dean, Dept. of Physical Chemistry 1959-63, Prof. of Chemical Technology 1959-63, 1966-; Deputy Dir.-Gen. (Head of Dept. of Training and Technical Information 1963-64, Head of Dept. of Technical Operations 1964-66), IAEA Vienna 1963-66, Dean Dept. of Physical Chem., Mendeleyev Chemical Technology Inst. 1966-73, Rector Inst. 1973-. *Address:* Mendeleyev Chemical Technology Institute, Miusskaya Ploshchad 9, Moscow, U.S.S.R.

YAGUDIN, Shamil Khairulovich; Soviet ballet dancer; b. 1932; ed. Moscow Ballet School of Bolshoi Theatre; joined Bolshoi Theatre Ballet 1952; with Bolshoi Ballet has toured U.K., Bulgaria, German Democratic Repub., Denmark, India, Canada, Norway, Egypt, France, U.S.A. and Czechoslovakia; Honoured Art Worker of R.S.F.S.R. 1962. *Main roles:* The Jester (Romeo and Juliet, Prokofiev), Karen (Gayane, Khachaturian), Nurali (Fountain of Bakhchisarai, Afasyev), The Wicked Witch (Swan Lake, Tchaikovsky), Jester (Cinderella, Prokofiev), Petrushka (Petrushka, Stravinsky), Ibn Salom (Leili and Medjnun, Balasanyan). *Address:* State Academic Bolshoi Theatre of the U.S.S.R., Ploshchad Sverdlova 1, Moscow, U.S.S.R.

YAGUIBOU, Télesphore; Upper Voltan diplomatist; b. 18 Oct. 1933, Pô; ed. Faculties of Law and Econs., Dakar and Paris and Inst. des Hautes Etudes d'Outre-Mer, Paris; Judge, Court of First Instance, Bobo-Dioulasso 1966-67; Sec.-Gen., Govt. of Upper Volta and Council of Ministers 1967-71; responsible for relations between Govt. and Parl. 1971-72; Perm. Rep. to UN 1972-77; Amb. to U.S.A. 1972-, also accred. to Canada 1972-77, to Mexico 1977-; fmr. del. to confs. of OAU and OCAM. *Address:* Embassy of Upper Volta, 5500 16th Street, N.W., Washington D.C. 20011, U.S.A.

YAHIA, General Tahir; Iraqi army officer and politician; b. 1915; ed. primary school, Tikrit, secondary school, Baghdad, Teachers' Training Coll. and Military Coll.; fmr. teacher, Mamounia School, Baghdad; mem. Nat. Movement 1941; Commdr. Armoured Cars' Battalion, Palestine War 1948; mem. Mil. Court, Habaniya 1948; mem. Free Officers' Group 1958, later Dir.-Gen. of Police; Chief of Staff, Iraqi Army Feb.-Nov. 1963; Prime Minister 1963-65; Deputy Prime Minister 1967; Prime Minister and acting Minister of the Interior 1967-68; Al-Khidma Medal, Al-Chaja Medal, Al-Rafidain Medal. *Address:* Baghdad, Iraq.

YAHYA KHAN, Gen. Agha Muhammad, H.P.K., H.J.; Pakistani fmr. army officer; b. 4 Feb. 1917, Peshawar; s. of Khan Bahadur Agha Saadat Ali Khan; m. Begum Fakhira Yahya 1945; one s. one d.; ed. Punjab Univ. and Indian Military Acad.; service on N.W. Frontier before World War II; service in Middle East and Italy, World War II; set up Pakistan Staff Coll. 1947, later Chief of Staff, Pakistan Army; Chair. Capital Comm. 1959; G.O.C. East Pakistan 1962; Commdr. Infantry Div. 1965; C.-in-C. Pakistan Army 1966-71; in charge of Admin. of Pakistan March 1969, Pres. of Pakistan 1969-71; under house arrest Jan. 1972, released July 1974. *Leisure interests:* golf, shooting, reading. *Address:* Rawalpindi, Pakistan.

YAKAS, Orestes, M.SC., PH.D.; Greek architect and politician; b. 14 Sept. 1920, Thessaloniki; s. of Athanase and Helene (née Xanthopoulou) Yakas; m. Eugenia Kerameos 1959; two s.; ed. Athens Nat. Polytechnic and Melbourne Univ.; in private practice in Melbourne 1955; Head, Town Planning Section, Doxiades Associates 1957; Chief Rep. of Doxiades Associates, Islamabad, Pakistan 1959; Vice-Pres. Doxiades Associates 1963; in private practice in Athens 1966, also Adviser to Sec.-Gen. for Sport; Adviser to Gov. of Investment Bank 1971; Minister of Mercantile Marine, Transport and Communications Aug. 1971-July 1972, May-Nov. 1973; Alt. Minister of Interior 1972-73; Man. Dir. Yakas Consulting Group 1974-. *Publications:* Town Planning Elements Influencing Urban Economics 1971; many lectures, radio talks, etc. *Leisure interest:* sport. *Address:* 41 Voriou Epirou Str., Philothei, Athens, Greece. *Telephone:* 6822685; 6819240.

YAKOVLEV, Aleksandr Sergeyevich; Soviet aircraft designer; b. 1 April 1906, Moscow; ed. Zhukovsky Air Force Engineering Acad.; mem. CPSU 1938; Deputy Minister of the Aircraft Industry of U.S.S.R. 1940-56; Chief Designer to Ministry of Aircraft Industry 1956-; Col.-Gen. of Air Force Engineering Service; Deputy to U.S.S.R. Supreme Soviet 1946-; designed sport, training, passenger, and combat aeroplanes; Corresp. mem. U.S.S.R. Acad. of Sciences 1943-76, mem. 1976-; State Prize 1941, 1943, 1944, 1946, 1947, 1948, Hero of Socialist Labour, Orders of Lenin, Hammer and Sickle Gold Medal (twice), Croix de la Légion d'honneur, and many other U.S.S.R. and foreign awards. *Publications:* Aim of a Lifetime, Soviet Aeroplanes, Notes of an Aircraft Designer. *Address:* Ministry of the Aircraft Industry, Moscow, U.S.S.R.

YALOW, Rosalyn Sussman, PH.D.; American medical physicist; b. 19 July 1921, New York; d. of Simon and Clara (Zipper) Sussman; m. Aaron Yalow 1943; one s. one d.; ed. Hunter Coll., New York, Univ. of Illinois; Asst. in Physics, Univ. of Ill. 1941-43, Instructor 1944-45; Lecturer and temp. Asst. Prof. in Physics, Hunter Coll., New York 1946-50; Physicist and Asst. Chief, Radioisotope Service, Veterans Admin. Hosp., Bronx 1950-70, Acting Chief 1968-70, Chief Radio-immuno-assay Reference Lab. 1969-, Chief Nuclear Medicine Service 1970-, Sr. Medical Investigator 1972-; Dir. Solomon A. Benson Research Lab. Veterans Admin. Medical Centre 1973; Research Prof., Dept. of Medicine, Mount Sinai School of Medicine, New York 1968-74, Distinguished Service Prof. 1974; Harvey Lecturer 1966, American Gastroenterology Assn. Memorial Lecturer 1972, Joslyn Lecturer, New England Diabetes Assn. 1972, Franklin I. Harris Memorial Lecturer 1973, 1st Hagedorn Memorial Lecturer, Acta Endocrinologica Congress 1973; Pres. Endocrine Soc. 1978-; men. Nat. Acad. of Sciences 1975-, American Physics Soc., Radiation Research Soc., American Assn. Physicists in Medicine, Biophysics Soc., American Acad. of Arts and Sciences, American Physiology Soc.; Fellow New York Acad. of Science, American Board of Radiology, American Coll. of Radiology, Clinical Soc. of New York Diabetes Assn.; Distinguished Service Prof., Mount Sinai School and Medicine 1974; Hon. D.Sc. from ten univs., Hon. D.Hum.Litt. (Hunter Coll., New York and Sacred Heart Univ.); First William S. Middleton Medical Research Award 1960; Fed. Woman's Award, Eli Lilly Award (American Diabetes Assn.) 1961; Van Slyke Award (American Assn. of Clinical Chem.) 1968; American Coll. of Physicians Award 1971, Howard Taylor Ricketts Award (Univ. of Chicago) 1971, Dickson Prize (Univ. of Pittsburgh) 1971, Gairdner Foundation Int. Award 1971, Koch Award (Endocrine Soc.) 1972, Commemorative Medallion (American Diabetes Assn.) 1972; Anachem Award (Detroit Assn. of Analytical Chemists) 1973; Albion O. Bernstein M.D. Award (Medical Soc., N.Y.) 1974; American Assn. of Clinical Chemists Award 1975, Scientific Achievement Award (American Medical Assn.) 1975, Veterans Administration Exceptional Service Award 1975, A. Cressy Morrison Award in Natural Sciences (New York Acad. of Sciences) 1975, Sustaining Membership Award (Assn. of Mil. Surgeons) 1975; Lasker Award 1976; joint Nobel Prize Winner for Physiology or Medicine for discoveries concerning peptide hormones 1977, "La Madonnina" International Prize of Milan 1977, Gratum Genus Humanum Gold Medal, World Fed. of Nuclear Medicine and Biology 1978. *Address:* Veterans Administration Medical Centre, 130 West Kingsbridge Road, Bronx, New York, N.Y. 10468; 3242 Tibbett Avenue, Bronx, New York, N.Y. 10463, U.S.A. (Home). *Telephone:* 584-9000; KI3-7792 (Home).

YAMADA, Hisamari; Japanese politician; mem. House of Reps. 1967-; fmr. Admin. Deputy Foreign Minister; fmr. Amb. to Moscow; Dir.-Gen. Environment Agency 1977-79. *Address:* c/o Environment Agency, I Kasumigaseki, 3-chome, Chiyoda-ku, Tokyo, Japan.

YAMAGATA, Shiro, B.ENG.; Japanese business executive; b. 26 Dec. 1902, Iwakuni City; s. of Osamu Yamagata and Kinuko Moriwaki; m. Setsuko Murayama, 1929; four c.; ed. Tokyo Univ.; Osaka Refinery, Mitsubishi Metal Mining Co. Ltd. (now Mitsubishi Metal Corpn.) 1927-, Man. Osaka Refinery 1947-48, Dir. 1950-, Man. Dir. 1956-60, Pres. 1960-67, Chair. 1967-71; Pres. Mitsubishi Nuclear Fuel Co. Ltd. 1971-. *Leisure interest:* golf.

YAMAMOTO, Yoichi, B.ECONS.; Japanese business executive; b. 19 Jan. 1909, Hokkaido; s. of Makoto and Toyo Yamamoto; m. Mitsuho Asano 1939; four s. one d.; ed. Chuo Univ. School of Econs.; Staff, Fed. of Dairy Production and Sales Co-operatives of Hokkaido (later Snow Brand Milk Products Co.); Dir., Man. Sales Dept., Snow Bran Milk Products Co. 1956, Man. Dir. 1963, Exec. Man. Dir. 1971, Pres. 1973-. *Leisure interest:* reading. *Address:* 4-20-17 Yagumo, Meguro-ku, Tokyo, Japan. *Telephone:* (717) 1812.

YAMANI, Shaikh Ahmed Zaki; Saudi Arabian politician; b. 1930, Mecca; ed. Cairo Univ., New York Univ. and Harvard Univ.; Saudi Arabian Govt. Service; private law practice; Legal Adviser to Council of Ministers 1958-60; Minister of State 1960-62; Minister of Petroleum and Mineral Resources 1962-; Dir. Arabian American Oil Company 1962-; Chair. of Board of Dirs. General Petroleum and Mineral Org., (PETROMIN) 1962-, Coll. of Petroleum and Minerals, Dhahran 1963-, Saudi Arabian Fertilizer Co. (SAFCO) 1966-; Sec.-Gen. Org. of Arab Petroleum Exporting Countries (OAPEC) 1968-69, Chair. 1974-75; mem. several Int. Law Asscns. *Publication:* Islamic Law and Contemporary Issues. *Address:* Ministry of Petroleum and Mineral Resources, Riyadh, Saudi Arabia.

YAMASAKI, Minoru, B.ARCH.; American architect; b. 1 Dec. 1912; ed. Univ. of Washington; Instructor of Water Colour, New York Univ. 1935-36; Designer 1935-45; Instructor of Architectural Design, Columbia Univ. 1943-45; Chief Architectural Designer for Smith Hirchman & Grylls, Detroit 1945-49; Principal, Leinweber, Yamasaki & Hellmuth, Detroit, Mich. and St. Louis, Mo. 1949-55, Yamasaki, Leinweber and Assocs. 1955-59; Minoru Yamasaki and Assocs. Birmingham, Mich. 1959-; mem. Nat. Council on the Arts; numerous architectural honours, including American Inst. of Architects (A.I.A.) First Honor Award for McGregor Memorial Community Conf. Center, Wayne State Univ., A.I.A. Gold Medal Award 1959, A.I.A. First Honor Award for Reynolds Metals Regional Building 1961; Hon. D.Hum. (Wayne State Univ.), Hon. D.Arch. (Michigan), Hon. D.F.A. (Rensselaer Polytechnic Inst. and Bates Coll.). *Address:* 350 West Big Beaver Road, Troy, Mich. 48084 (Office); 3717 Lakecrest Drive, Bloomfield Hills, Mich. 48013, U.S.A. (Home).

YAMASHITA, Isamu; Japanese business executive; b. 15 Feb. 1911, Tokyo; ed. Tokyo Imperial Univ.; joined shipbuilding dept., Mitsui & Co. 1933; entered Tamano Shipyard Ltd. (predecessor of Mitsui Shipbuilding & Engineering Co. Ltd.) 1937; Man. Dir. Mitsui Shipbuilding & Engineering Co. Ltd. 1962, Senior Man. Dir. 1966, Vice-Pres. 1968, Pres. 1970-. *Leisure interests:* golf, reading. *Address:* Mitsui Shipbuilding & Engineering Co. Ltd., 6-4, Tsukiji 5-chome, Chuo-ku, Tokyo, Japan. *Telephone:* 544-3054.

YAMÉOGO, Antoine W.; Upper Voltan financial official; b. 17 Jan. 1928, Koudougou; m. Christine Guissou 1956; two s. one d.; ed. Univ. de Bordeaux, Ecole Nationale des Impôts, Paris, and Univ. de Paris; Insp. of publicly controlled financial bodies, France, Senegal, Mauritania and Upper Volta 1955-59; Dir. of Treasury, later Commr. for Upper Volta Devt. Plan 1959-61; Minister of Nat. Economy, Upper Volta 1961-62; Economist with IMF 1963-64, Alternate Exec. Dir. 1964-66, Exec. Dir. 1966-76. *Leisure interests:* hunting, farming, classical music. *Address:* c/o Ministry of Foreign Affairs, Ouagadougou, Upper Volta.

YAMÉOGO, Maurice; Upper Voltan politician; b. 31 Dec. 1921; ed. High School; mem. of Grand Council French W. Africa 1947, Minister of Agric. 1955, of Interior 1956, Premier 1958-60; Pres. Council of Ministers 1960-66, Minister of Defence 1965-66; Pres. of the Repub. 1960-66; deposed by mil. coup Jan. 1966; mem. Rassemblement Démocratique Africain (RDA); on trial for embezzlement April 1969; sentenced to 5 years' hard labour May 1969, sentence reduced to 2 years Aug. 1969, released Aug. 1970.

YANCEY, Robert E., B.ENG.SC.; American petroleum company executive; b. 15 July 1921, Cleves, Ohio; s. of George W. Yancey; m. Mary Estelline Tackett 1941; one s. one d.; ed. Marshall Univ.; Process Engineer, Ashland Oil 1943, Gen. Supt. of Refineries 1954, Vice-Pres. of Mfg. 1956, Dir. 1964-, Senior Vice-Pres. 1965, Pres., Ashland Chemical Co. (Div.) 1967, Chief Operating Officer, Pres. Ashland Petroleum Co. 1969, Pres. Ashland Oil Inc. 1972-. *Leisure interests:* boating, golf. *Address:* Ashland Oil Inc., P.O. Box 391, Ashland, Ky. 41101 (Office); 102 Lycan Road, Bellefonte, Ashland, Ky. 41101, U.S.A. (Home). *Telephone:* (606) 324-9849.

YANENKO, Nikolay Nikolayevich; Soviet mechanical engineer and mathematician; b. 22 May 1921, Kuibyshev, Novosibirsk; ed. Tomsk State Univ.; Senior Lecturer, Moscow State Univ. 1949-56; Scientific Assoc., Geophysical Inst., U.S.S.R. Acad. of Sciences 1948-53; Head of Lab., Computing Centre, Siberian Branch, U.S.S.R. Acad. of Sciences 1963-; Prof. and Chair. of Dept., Novosibirsk State Univ. 1964-; Corresp. mem. U.S.S.R. Acad. of Sciences 1966-70, mem. 1970-; mem. CPSU 1952-. *Address:* Computing Centre, Akademgorodok, Novosibirsk, U.S.S.R.

YANG CHEN NING, PH.D.; Chinese professor of physics; b. 22 Sept. 1922; ed. Nat. Southwest Associated Univ., Kunming, and Univ. of Chicago; Instructor, Univ. of Chicago 1948-49; mem. Inst. for Advanced Study, Princeton, N.J. 1949-55, and Prof. 1955-65; Albert E. Einstein Prof. of Science, New York State Univ. 1965-; Visiting Prof. Univ. of Paris 1957; Hon. D.Sc. (Princeton Univ., Brooklyn Polytechnical Inst., Univ. of Wrocław); Nobel Prize in Physics 1957; A. Einstein Award 1957. *Address:* Department of Physics, State University of New York, Stony Brook, N.Y. 11790, U.S.A.

YANG CH'ENG-WU; Chinese army officer; b. 1904, Changting, Fukien. Political Commissar, Red 1st Army Corps 1932; Mil. District Commdr. 1938; Army Corps Commdr., People's Liberation Army N. China Mil. Region 1949, Chief of Staff 1952, Gen. 1955; Commdr. PLA Air Defence Command 1956; Alt. mem. 8th Cen. Cttee. of CCP 1956; Commdr. Peking Mil. Region 1957-59; Deputy Chief of Staff PLA 1959-68, Acting Chief of Staff 1966-68; criticized and removed from office during Cultural Revolution 1967; Deputy Chief of Staff, PLA 1974; Commdr. Foochow Mil. Region PLA 1977-; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

YANG CHING-YEN; Chinese politician; former High Iman of Islam; Minister in charge of the Comm. for Minority Nationalities March 1978-; Exec. Chair. 5th Nat. Cttee. of CPPCC 1978, Vice-Chair. 1978. *Address:* People's Republic of China.

YANG CHUN-SHENG; Chinese party official; on "Long March" 1934; Regt. Commdr. 1945, Div. Commdr. 1949, Commdr. 16th Army, Kirin 1963; Vice-Chair. Peking Revolutionary Cttee. 1969; Sec. CCP Peking 1971; Political Commissar, Peking Garrison District PLA 1973-; Alt. mem. 9th Cen. Cttee. CCP 1969, 10th Cen. Cttee. 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

YANG LI-KUNG; Chinese politician. Minister of Agric. 1978-79, of Forestry 1978-79, of Agricultural Machinery 1979-. *Address:* People's Republic of China.

YANG TA-YI; Chinese army officer. Regimental Commander 1949; Deputy Commdr. Hunan Mil. District PLA 1967, Commdr. 1969; Commdr. Liaoning Mil. District PLA 1975-; Vice-Chair. Hunan Revolutionary Cttee. 1968; Deputy Sec. CCP Hunan 1970, Sec. 1973; Alt. mem. 10th Cen. Cttee. CCP 1973, 11th Cen. Cttee. 1977. *Address:* People's Republic of China.

YANG TE-CHIH; Chinese army officer; b. 1910, Li-ling, Hunan; ed. Red Army Acad. and Nanking Mil. Acad.; joined CCP 1927; on Long March 1934-35; Regimental Commdr., Red Army 1935; Commdr. Ninghsia Mil. Region, People's Liberation Army 1949; Chief of Staff Chinese People's Volunteers in Korea 1951, Deputy Commdr. Chinese People's Volunteers 1953-54, Commdr. 1954-55; mem. Nat. Defence Council 1954; Gen. 1955; Alt. mem. 8th Cen. Cttee. of CCP 1956; Commdr. Tsinan Mil. Region, PLA 1958-73; First Vice-Chair. Shantung Revolutionary Cttee. 1967, Chair. 1971-76; mem. 9th Cen. Cttee. of CCP 1969; First Sec. CCP Shantung 1971; mem. 10th Cen. Cttee. of CCP 1973; Commdr. Wuhan Mil. Region, PLA 1972-79; First Sec. CCP Cttee. Units, Commdr. PLA Kunming Mil. Region 1979-; mem. 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

YANG YI-CHIEN; Chinese government official. First Sec., Heilungkiang Prov. CCP Cttee. 1978-. *Address:* People's Republic of China.

YANG YUNG; Chinese army officer; b. 1906, Liuyang, Hunan; ed. Red Army Coll.; joined CCP 1926; Regimental Deputy Commdr., Red Army 1937; Commdr. 5th Army Group, 2nd Field Army, People's Liberation Army 1948; Deputy Commdr. 2nd Field Army, PLA 1949; Gov. of Kweichow 1949-55; Deputy Commdr. Chinese People's Volunteers, Korea 1954, Commdr. Chinese People's Volunteers 1955-58; Alt. mem. 8th Cen. Cttee. CCP 1956; Commdr. Peking Mil. Region, PLA 1960-67; criticized and removed from office during Cultural Revolution 1967; Commdr. Sinkiang Mil. Region, PLA 1973-77; Vice-Chair. Sinkiang Revolutionary Cttee. 1973; Second Sec. CCP Sinkiang 1973-77; mem. 11th Cen. Cttee. CCP 1977; Deputy Chief of PLA General Staff. *Address:* People's Republic of China.

YANKOV, Alexander, PH.D.; Bulgarian diplomatist; b. 22 June 1924; m.; two c.; ed. Sofia Univ. and Hague Acad. of Int. Law; Asst. Prof. of Int. Law, Sofia Univ. 1951-54; Sec. Int. Union of Students, Prague 1954-57; Senior Asst. Prof. of Int. Law 1957-64, Assoc. Prof. 1964, Prof. 1968-; Counsellor, Perm. Mission of Bulgaria at UN 1965-68; Vice-Chair. UN Cttee. on Peaceful Uses of the Sea-Bed 1968-; mem. Court of Arbitration, Bulgarian Chamber of Commerce 1970; mem. Perm. Court of Arbitration, The Hague 1971; Amb. to U.K. 1972-76; Perm. Rep. to UN 1977-; Pres. 8th Session, Assembly of Inter-Govt. Maritime Consultative Org. 1973; Chair. 3rd Main Cttee., UN Conf. on Law of the Sea, Caracas 1974, Geneva 1975. *Publications:* several publications on international law and international relations. *Address:* Permanent Bulgarian Delegation to the United Nations, 10 East 77th Street, New York, N.Y. 10021, U.S.A.

YANO, Jun'ya; Japanese politician; b. 27 April 1932, Osaka; m. Mitsuko Yano 1961; one s.; ed. Kyoto Univ.; with Ohbayashi-gumi Ltd. 1956-; mem. Osaka Prefectural Assembly 1963; mem. House of Reps. 1967-; Sec.-Gen. Komeito (Clean Govt.) Party 1967-. *Leisure interest:* reading, listening to music. *Address:* Komeito, 17 Minamimotomachi, Shinjuku-ku, Tokyo.

YANOFSKY, Charles, PH.D.; American professor of biology; b. 17 April 1925, New York, N.Y.; s. of Frank Yanofsky and Jennie Kopatz Yanofsky; m. Carol Cohen 1949; three s.; ed. City Coll. of New York and Yale Univ.; Research Asst. in Microbiology, Yale Univ. 1951-53; Asst. Prof. of Microbiology Western Reserve Univ. 1954-58; Assoc. Prof., Dept. of Biological Sciences, Stanford Univ., Prof., Dept. of Biological Sciences 1961-; Herzstein Prof. of Biology 1967; Pres. Genetics Soc. of America 1969; Career Investigator American Heart Assn. 1969; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Louisa Gross Horwitz Prize 1976; Eli Lilly Award in Bacteriology 1959, U.S. Steel Award in Molecular Biology 1964, Howard Taylor Ricketts Award 1966, Albert Lasker Award for Basic Medical Research 1971, Nat. Acad. of Sciences Award in Microbiology 1972; Townsend Harris Medal, City Coll. of New York. *Publications:* Scientific articles in Proceedings of Nat. Acad. of Sciences, etc. *Leisure interests:* tennis, sports. *Address:* 725 Mayfield Avenue, Stanford, Calif. 94305, U.S.A. *Telephone:* 415-497-2413 (Office); 415-323-9934.

YANSANE, Sékou; Guinean diplomatist; b. 18 June 1934; ed. Lycée Van Vollenhoven, Faculté des Lettres et Sciences Humaines, Dakar, and Univs. of Poitiers and Paris; Coll. Principal, Conakry 1960; Headmaster of Lycée, Conakry 1962; Prof. at Inst. Polytechnique 1964; Dir. of Publications at Inst. Nat. de Recherches et de Documentation 1971-76; Amb. to People's Repub. of China 1976-77, also accred. to Viet-Nam, Cambodia (Kampuchea), Democ. People's Repub. of Korea, Pakistan, Argentina, Brazil, Venezuela, Haiti and Canada; Perm. Rep. to the UN 1977-, also Amb. to Argentina, Brazil, Venezuela, Haiti and Canada. *Address:* Permanent Mission of Guinea to the United Nations, 820 Second Avenue, New York, N.Y. 10017, U.S.A.; Ministère des Affaires Etrangères, Conakry, Republic of Guinea.

YANSHIN, Aleksandr Leonidovich; Soviet geologist; b. 28 March 1911, Smolensk; s. of Leonid Aleksandrovich and Mariya Petrovna Yanshina; m. Fidan Taufikovna Bikkenina 1971; one s.; ed. Moscow Geological Inst.; Researcher, Inst. of Fertilizers 1929-36, Geological Inst., U.S.S.R. Acad. of Sciences 1936-56; Man. Dept. of Regional Tectonics, Geological Inst. 1956-; Vice-Dir. Inst. of Geology and Geophysics, Siberian Div., U.S.S.R. Acad. of Sciences 1959-; mem. U.S.S.R. Acad. of Sciences 1958-; helped compile tectonic maps of U.S.S.R. 1952, 1956, Europe 1964, Chief Editor tectonic map of Eurasia 1965-66; Foreign mem. Acad. of Sciences, Mongolia 1974-; State Prize 1969-, Order of Lenin (three times), Order of the Red Banner of Labour (twice), Badge of Honour. *Publications:* Tectonics of Eurasia, On the Mechanics of the Formation of Deep-Sea Troughs Located Between the Continents and on their Margins (a series of articles) 1972-75, About so called World-Scale Transgressions and Regressions 1973 and many works on the geology of the U.S.S.R. *Address:* Institute of Geology and Geophysics, Akademgorodok, Novosibirsk, U.S.S.R. *Telephone:* 65-65-19.

YAO KUO-MIN; Chinese party official. *Address:* Political Commissar, PLA Armoured Corps. People's Republic of China.

YAO WEN-YUAN; Chinese journalist; b. 1924; Journalist and youth activist before Cultural Revolution; leading pro-Maoist journalist during Cultural Revolution 1955-68; Editor Wen Hui Bao 1966, Liberation Daily 1966; mem. Cen. Cultural Revolution Group, CCP 1966; Vice-Chair. Shanghai Revolutionary Cttee. 1967-76; Editor People's Daily 1967-76; mem. Politburo, CCP Cen. Cttee. 1969-76; Second Sec. CCP Shanghai 1971; arrested as mem. of "Gang of Four" Oct. 1976; expelled from CCP July 1977. *Address:* People's Republic of China.

YAO YI-LIN; Chinese government official; b. Kiangsi Province; retd. Sec.-Gen. CCP N. China Bureau 1937; mem. Financial and Econ. Cttee. N. China People's Govt. 1948-49; Dir., Dept. of Industry and Commerce, N. China People's Govt. 1948-49; Vice-Minister of Trade 1949-52; mem. Provisional Board of Dirs., All-China Fed. of Co-operatives 1950; mem. Cen. Cttee. to check Austerity Program 1951; Vice-Minister of Commerce 1952-58; mem. Nat. Cttee. All China Federation of Supply and Marketing Co-operatives 1954; Deputy for Kiangsi to 1st NPC 1954; Vice-Minister, First Minister of Commerce 1958; alt. mem. CCP 8th Cen. Cttee. 1958; Deputy Dir., Finance and Trade Admin. Office, State Council, 1959; mem., Pres., All-China Conf. of Advanced Producers, 1959; mem., Standing Cttee. 3rd CPPCC 1959; Deputy Dir. Finance and Trade Work Dept. CCP Cen. Cttee. 1959-67; Minister of Commerce 1960-67; Dir., Political Dept. Financial and Trade Dept. CCP Cen. Cttee. 1964-67; accused of being a counter-revolutionary revisionist 1967; alt. mem. CCP 10th Cen. Cttee. 1973; Vice-Minister of Foreign Trade 1973; mem. Presidium CCP 11th Nat. Congress 1977-; mem. CCP 11th Cen. Cttee. 1977-; Minister of Commerce 1978-79, of Machine Building 1979. *Address:* People's Republic of China.

YAR'ADUA, Brig. Shehu; Nigerian army officer; b. 5 March 1943, Katsina, Kaduna State; m.; three d.; ed. Govt. Secondary School, Katsina, Nigerian Mil. Training Coll., Zaria, Royal Mil. Coll., Sandhurst, U.K., Command and Staff Coll., U.K.; Platoon Commdr. 1964-65, Battalion Adjutant 1965-67, Co. Commdr. 1967, Asst. Adjutant Gen., 2nd Div. 1967; Commanded 6th Infantry

Brigade in Second Infantry Div. with service in Onitsha Sector 1968; Commanded 9th Infantry Brigade (based at Warri during civil war) 1969-72; Commr. for Transport July 1975-Feb. 1976; Chief of Staff, Supreme HQ (Chief of Army Staff) Feb. 1976-; Vice-Pres. Supreme Mil. Council Feb. 1976-. *Address:* Supreme Military Council, Lagos, Nigeria.

YARBOROUGH, Ralph Webster, LL.B.; American lawyer and politician; b. 8 June 1903, Chandler, Texas; s. of Charles Richard Yarborough and Nannie Spear; m. 1928; one s.; ed. Sam Houston State Teachers Coll., Huntsville, Texas, U.S. Military Acad., West Point, N.Y., and Univ. of Texas Law School; practised law. El Paso, Texas 1927-30; Asst. Attorney-Gen. Texas 1931-34; Dir. Lower Colorado River Authority 1935-36; Lecturer, Univ. of Texas Law School 1935; District Judge, Austin 1936-41; served in World War II and Lt.-Col. 1946; U.S. Senator from Texas 1957-71; mem. Tex. Constitutional Revision Cttee. 1973-74; mem. and fmr. Pres. Travis Bar Assn.; mem. El Paso Assn.; mem. and fmr. Dir. State Bar of Texas; mem. American Bar Assn., American Law Inst., Texas Board of Examiners 1947-51, etc.; U.S. del. Inter-Parl. Union Conf., Brasília, Oct. 1962, Dublin 1965, Canberra, Easter 1966, Teheran Sept. 1966, Palma de Mallorca Mar. 1967, Lima Sept. 1968, Vienna April 1969, New Delhi Oct.-Nov. 1969; Democrat. *Publications:* essays on Lincoln and Houston 1964, Frank Dobie: Man and Friend 1967. *Leisure interests:* reading, book and stamp collecting. *Address:* 2527 Jarratt Avenue, Austin, Tex. 78703, U.S.A. (Home).

YARIV, Brig.-Gen. Aharon; Israeli army officer; b. 1920, Latvia; s. of Haim and Tamar Yariv; m. Nehama Yoffe 1950; one s.; ed. French Staff Coll.; emigrated to Israel 1935; Capt. British Army 1941-46; Haganah 1946-47; various posts with Northern Command, Israel Defence Forces 1948-50, Operations Div., H.Q. 1951; IDF Officers' Staff Coll. 1952-56; Military Attaché, Washington and Ottawa 1957-60; joined Mil. Intelligence 1961, Dir. until 1972; Special Adviser to the Prime Minister 1972-73; mem. Knesset (Parl.) 1973-77; Minister of Transport March-June 1974, of Information 1974-75; Head of Center for Strategic Studies, Tel-Aviv Univ. 1977-; Maj.-Gen. (Army reserve). *Leisure interests:* sports. *Address:* Center for Strategic Studies, Tel-Aviv University, Tel-Aviv; 20 Rimon Street, Neve Magen, Ramat Hasharon, Israel (Home).

YARROW, Sir Eric Grant, 3rd Bt. (cr. 1916), M.B.E., D.L.; British business executive; b. 23 April 1920, Glasgow; s. of Sir Harold Yarrow, 2nd Bt., and late Eleanor Etheldreda; m. 1st Rosemary Ann Young 1951 (died 1957), one s.; m. 2nd Annette Elizabeth Françoise Steven 1959 (divorced 1975), three s.; ed. Marlborough Coll., Glasgow Univ.; served apprenticeship with G. and J. Weir Ltd.; army service in Burma 1942-45, Major Royal Engineers 1945; trained with English Electric Co. 1945-46; Asst. Man., Yarrow and Co. Ltd. 1946, Dir. 1948, Man. Dir. 1958-67, Chair. 1962-; Chair. Yarrow (Shipbuilders) Ltd. 1962-79, Yarrow Engineers (Glasgow) Ltd., Yarrow-Admiralty Research Dept. Ltd., Y-ARD (Australia) Pty. Ltd., fmr. Chair. Yarrow Africa Maritime Consultancy (Pty.) Ltd.; Joint Deputy Chair. Clydesdale Bank Ltd.; Dir. Standard Life Assurance Co., Croftinloan (Holdings) Ltd.; mem. Council, Royal Inst. Naval Architects 1957-, Vice-Pres. 1972; mem. Gen. Cttee. Lloyd's Register of Shipping 1960-; Prime Warden, Worshipful Co. of Shipwrights 1970-71; Deacon, Incorpn. of Hammermen of Glasgow 1961-62; fmr. mem. Council of Inst. Engineers and Shipbuilders in Scotland; Vice-Chair. Exec. Cttee. Princess Louise Scottish Hosp., Erskine; Pres. Scottish Convalescent Home for Children 1958-70; Fellow of Royal Soc. of Edinburgh 1975; Officer of Order of St. John. *Leisure interests:* golf, shooting. *Address:* Cloak, Kilmacolm, Renfrewshire, PA13 4SD, Scotland. *Telephone:* Yarrow and Company: 041-226-4192; 041-549-2067 (Home).

YASNOV, Mikhail Alekseyevich; Soviet politician; b. 1906; ed. Moscow Univ.; mem. CPSU 1925-; construction work, Moscow City Council 1930-38, Deputy Chair. Exec. Cttee., Moscow City Council 1938-49, Chair. 1950-56; Deputy Minister of Town Construction U.S.S.R. 1949-50; mem. Cen. Cttee. CPSU 1952-; Deputy to U.S.S.R. 1950- and R.S.F.S.R. Supreme Soviets; Chair. Council of Ministers R.S.F.S.R. 1956-57, First Deputy Chair. 1957-67; Pres. Presidium of Supreme Soviet of R.S.F.S.R. 1967-; Vice-Pres. Presidium of Supreme Soviet of U.S.S.R. 1967-. *Address:* Presidium of R.S.F.S.R. Supreme Soviet, 3 Delegatskaya ulitsa, Moscow, U.S.S.R.

YASSIN, Aziz Ahmed, PH.D., D.I.C., B.SC.; Egyptian consulting engineer; b. 13 Aug. 1918; s. of Ahmed M. Yassin and Moonira M. El-Rashidi; m. Moonira Eleanor Hartmann 1951; one s. two d.; ed. Abbassia Secondary School, Cairo Univ., and Imperial Coll., London Univ.; Ministry of Housing and Public Utilities, rising to Under-Sec. of State 1939-59; Dir.-Gen. and Vice-Chair. Building Research Centre 1954-59, Chair. and Pres. Tourah Portland Cement Co., Alexandria Portland Cement Co. 1959-63; mem. Board of Dirs. Helwan Portland Cement Co., Sudan Portland Cement Co. 1959-63; Chair. Egyptian Cement Cos. Marketing Board 1959-63; Chair. and Pres. Egyptian Gen. Org. for Housing and Public Building Contracting Cos. 1963-65; Minister of Tourism and Archaeology 1965-67, of Housing and Construction 1966-68; mem. Board Asswan High Dam Authority 1966-68; External Prof. in Soil Mechanics, Cairo Univ. 1951-; External Prof. of Civil Engineering, Ein Shams Univ.; mem. Council of Building Research and Technology, Egyptian Acad. of Science and Technology 1972-; Sec.-Gen. Fed. of Arab Engineers (FAE) 1975; mem. of Council of other scientific, civil engineering and building orgs.; Order of the Republic of Egypt (First Class), Order of the Banner of the Hungarian Republic (First Degree), Commander's Cross with Star, Order of Resurrection of Poland. *Publications:* Model Studies on the Bearing Capacity of Piles 1951, Bearing Capacity of Deep Foundations in Clay Soils, Testing Sand Dry Samples with the Tri-axial Apparatus 1953, Bearing Capacity of Piles 1953, The Industry of Building Materials in Egypt 1957. *Leisure interests:* reading, economics and law. *Address:* 4 Waheeb Doas Street, Maadi, Cairo, Egypt. *Telephone:* Cairo 34519.

YASUI, Kaoru, LL.D.; Japanese jurist and poet; b. 25 April 1907, Osaka; s. of Harumoto and Harue Yasuri; m. Tazuko Kuki 1936; one s. one d.; ed. Tokyo Univ.; Asst. Prof. Tokyo Univ. 1932-42, Prof. 1942-48; Prof. Hosei Univ. 1952-, Dean Faculty of Jurisprudence 1957-63, Dir. 1963-66, Prof. Emer. 1978-; Leader (Chair. etc.) Japan Council Against Atomic and Hydrogen Bombs 1954-65; Pres. Japanese Inst. for World Peace 1965-; Dir. Maruki Gallery for Hiroshima Panels 1968-; Chair. Japan-Korea (Democratic People's Repub.) Solidarity Cttee. of Social Scientists 1972-; Dir-Gen. Int. Inst. of the Juche Idea 1978-; Hon. mem. Japanese Assn. of Int. Law 1976-; mem. Lenin Peace Prize Cttee.; Lenin Peace Prize 1958; Gold Medal (Czechoslovakia) 1965. *Publications:* Outline of International Law 1939, Banning Weapons of Mass Destruction 1955, People and Peace 1955, Collection of Treaties 1960, My Way 1967, The Dialectical Method and the Science of International Law 1970, A Piece of Eternity (Poems) 1977. *Address:* Minami-Ogikubo 3-13-11, Suginamiku, Tokyo, Japan. *Telephone:* Tokyo 03-332-3580.

YASUI, Kizo; Japanese business executive; b. 2 Dec. 1899, Shiga; s. of Kizo and Suga Yasui; m. Etsuko Miyagawa 1928; one s. one d.; ed. Tokyo Univ. of Commerce; joined the Mitsui Bank Ltd. 1926, Dir. 1951, Man.-Dir. 1954, Senior Man.-Dir. 1957, Deputy Pres. 1959; Pres. Mitsui Petrochemicals Co. Ltd.1961; Exec. Vice-Pres. Toray Industries Inc. 1963, Chair. 1971-78, Senior Adviser June 1978-; Vice-Pres. Japan Fed. of Econ. Orgs. (KEIDANREN) 1974-; Order of the Rising Sun 1970. *Leisure interest:* golf. *Address:* Toray Industries Inc., Toray Building, 2 Nihonbashi, Muromachi, 2-chome, Chuoku, Tokyo; No. 5-36, 4-chome Minamiazabu, Minatoku, Tokyo 106, Japan. *Telephone:* 03-473-0520.

YASUKAWA, Takeshi, B.A.; Japanese diplomatist; b. 16 Feb. 1914, Tokyo; s. of Diagoro and Matsuko Yasukawa; m. Sueko Hitomi 1946; one s. two d.; ed. Tokyo Imperial Univ.; entered diplomatic service 1939; Counsellor, Washington, D.C. 1957-61; Asst. Deputy Vice-Minister for Admin., Ministry of Foreign Affairs 1961-65; Dir.-Gen. American Affairs Bureau, Ministry of Foreign Affairs 1965-67; Amb. to Philippines 1967-69; Deputy Vice-Minister of Foreign Affairs 1970-72; Amb. to U.S.A. 1973-76. *Leisure interest:* golf. *Address:* c/o Ministry of Affairs, Tokyo, Japan.

YATES, Frank, C.B.E., SC.D., F.R.S.; British research scientist; b. 1902; ed. Clifton Coll., and St. John's Coll., Cambridge; Research Officer and Mathematical Adviser, Gold Coast Geodetic Survey 1927-31; at Rothamsted Experimental Station 1931-; Head of Dept. of Statistics 1933-68, Deputy Dir. 1958-68; Scientific Adviser to various Ministries 1939-; Hon. Wing-Commdr., R.A.F. 1943-45; Head of Agricultural Research Statistical Service 1947-68; mem. UN Sub-Comm. on Statistical Sampling 1947-51; mem. Governing Body Grassland Research Station 1948-69; mem. Int. Statistical Inst. 1947-; Pres. of British Computer Soc. 1961-62; Pres. Royal Statistical Soc. 1967-68; Sr. Research Fellow, Imperial Coll., London 1969-74, Sr. Visiting Fellow 1974-77; Royal Medal, Royal Soc. 1966. *Publications:* Design and Analysis of Factorial Experiments 1937, Statistical Tables for Biological, Medical and Agricultural Research (with R. A. Fisher) 1938-63, Sampling Methods for Censures and Surveys 1949-79, Experimental Design: Selected Papers 1970. *Address:* Rothamsted Experimental Station, Harpenden, Hertfordshire, England. *Telephone:* Harpenden 62271.

YDIGORAS FUENTES, Gen. Miguel; Guatemalan politician and civil engineer; b. 17 Oct. 1895; ed. Acad. Mil. de Guatemala, and Univ. Nacional de Guatemala; Mil. Attaché in Washington,

Paris; Mil. Adviser in Peace Confs. del. in Versailles 1919; Dean of Polytechnic School; Gov. of 4 States in Guatemala; Dir. of Public Roads 1938-44; Pres. dels. to 3rd UNRRA Congress, UNESCO Congress, UN Preparatory Comm. and UN 1st Session, London 1945-46, led repatriation Mission for Guatemalan Displaced Persons in Germany 1946-47; mem. Neutral Observer Corps apptd. by Int. Court of Justice to organize referendum in French possessions in India 1949; Minister to U.K. 1945-50; Cand. for Presidency 1950; Minister to Columbia 1955, Amb. 1956-58; Pres. of Guatemala 1958-63; mem. American Society for Geographical Research. *Publications:* Map of boundary sections of Guatemala and Mexico, and Map of Roads of Guatemala and El Salvador; also books on military affairs and road construction. *Address:* Living in Nicaragua.

YEFREMOV, Mikhail Timofeyevich; Soviet politician; b. 22 May 1911; ed. Industrial Inst., Kuibyshev; mem. CPSU 1932-; party work 1943-; Second Sec. then Sec. Kuibyshev District Cttee. CPSU 1951-59; Head of section of party organ of Cen. Cttee. of CPSU for R.S.F.S.R. and mem. Bureau 1959-61; mem. Cen. Cttee. CPSU 1956-76; First Sec. Cheliabinsk District Cttee., CPSU 1961-62; First Sec. Gorsky District Cttee., CPSU and mem. Bureau of Cen. Cttee. of CPSU for R.S.F.S.R. 1962-65; Deputy Chair. U.S.S.R. Council of Ministers 1965-71; Amb. to German Democratic Repub. 1971-75; Deputy to U.S.S.R. Supreme Soviet 1954-; Amb. to Austria 1975-; Order of Lenin (three times) and other decorations. *Address:* c/o Ministry of Foreign Affairs, Moscow, U.S.S.R.

YEFREMOV, Olyeg Nikolayevich; Soviet actor and director; b. 1 Oct. 1927, Moscow; ed. Moscow Arts Theatre Studio; Studio School of Moscow Art Theatres 1945-49; Actor and producer at Cen. Children's Theatre 1949-56; Chief Producer Sovremennik Theatre 1956-70; Chief Stage Man. Moscow Art Theatre 1970-; has produced many plays at Sovremennik Theatre; film work 1955-; Merited Art Worker of R.S.F.S.R. 1957, R.S.F.S.R. People's Actor 1969, U.S.S.R. State Prize 1969. *Address:* Moscow Art Theatre, Proezd Khudozhestvennogò Teatra 3, Moscow, U.S.S.R.

YEGOROV, Anatoliy Grigoriyevich; Soviet philosopher; b. 25 Oct. 1920, Skopin, Ryazan Region; ed. Moscow Pedagogical Inst.; Soviet army service 1941-46; mem. CPSU 1944-; Teacher, Pedagogical Inst., Vladivostok 1946-48; Deputy Editor, then Editor, Kommunist 1952-56, 1965-; Chief Editor, V Pomoshch Politicheskomu Samoobrazovaniu (Political Self-Education Guide) 1956-60; Deputy Head of Section of Agitation and Propaganda Cen. Cttee. CPSU 1961-66; mem. Cen. Auditing Comm. CPSU 1961-66; Cand. mem. Cen. Cttee. CPSU 1966-, mem. 1976-; Corresp. mem. U.S.S.R. Acad. of Sciences 1962-; several decorations. *Publications:* Art and Social Life 1959, On the Reactionary Content of Contemporary Bourgeois Ethics 1961, Progressive Development in the Arts (in Art and Society in English) 1968, Problems of Aesthetics 1974. *Address:* c/o U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt 14, Moscow V-71, U.S.S.R.

YEGOROV, Mikhail Vasilevich; Soviet politician; b. 1907; ed. Dzerzhinsky Higher School for Naval Engineering; mem. CPSU 1938-; ship mechanic until 1939; Head and Chief Engineer in several administrative posts, Ministry of Shipbuilding, Deputy Minister 1939-58, First Deputy Chairman, State Committee for Shipbuilding, Council of Ministers, 1958-1976; Minister of Shipbuilding July 1976-; Order of Lenin and other decorations. *Address:* Ministry of Shipbuilding, Moscow, U.S.S.R.

YEGORYCHEV, Nikolay Grigoriyevich; Soviet politician and diplomatist; b. 1920; ed. Moscow Higher Technical Inst.; mem. CPSU 1942-; army service 1941-46; Sec. Bauman Regional Cttee. (Moscow) CPSU 1954-60; Perm. staff Central Cttee. 1960-61; First Sec. Moscow City Cttee. CPSU 1961-67; Deputy Minister of Tractor and Agricultural Machinery Building 1967-70; mem. Cen. Cttee. of CPSU 1961-76; mem. Bureau for R.S.F.S.R.; Deputy to U.S.S.R. Supreme Soviet; mem. Presidium Supreme Soviet of U.S.S.R. 1966-67; Amb. to Denmark 1970-. *Address:* Embassy of the U.S.S.R., Kristianiagade 5, Copenhagen, Denmark.

YEH CHIEN-YING, Marshal; Chinese party leader and fmr. army officer; b. 1899, Mei-hsien, Kwangtung; ed. Yunnan Mil. Inst., Sun Yat-sen Univ., Moscow, in France and Germany; Instructor Whampoa Mil. Acad. 1924; joined CCP 1924; participated in Nanchang Uprising 1927, Canton Uprising 1927; Principal Red Army Coll. 1931; Deputy Chief of Staff on Long March 1934-36; mem. 7th Cen. Cttee. of CCP 1945; Mayor of Peking 1949; First Political Commissar Canton Mil. District, People's Liberation Army 1949; Gov. of Kwangtung 1949-55; Vice-Chair. Nat. Defence Council 1954-; Dir. Inspectorate of Armed Forces, PLA 1954-58; Marshal PLA 1955; mem. 8th Cen. Cttee. of CCP 1956; Pres. PLA Mil. Acad. 1958; Sec., Secr. of Cen. Cttee., CCP 1966; presumed Acting Minister of Nat. Defence 1971-75, Minister 1975-78; Vice-Chair. CCP 1973; mem. Standing Cttee. of Politburo, 10th Cen. Cttee. of CCP 1973; mem. Politburo 11th Cen. Cttee. CCP 1977; Vice-Chair. CCP 1977-; Chair. Nat. People's Congress Standing Cttee. March 1978-; Exec. Chair. Presidium 5th Nat. People's Congress. *Address:* People's Republic of China.

YEH FEI; Chinese party official; b. 1909, Fu-an, Fukien; Guerilla leader in Fukien 1926-29; joined CCP 1927; Div. Commdr. New 4th Army 1941; Corps Commdr. 3rd Field Army 1949; Vice-Gov. of Fukien 1949-54, Gov. 1955-59; Mayor of Amoy 1949; First Sec. CCP Fukien 1955-68; Gen. 1955; Alt. mem. 8th Cen. Cttee. of CCP 1956; Political Commissar Foochow Mil. Region, People's Liberation Army 1957-67; Sec. E. China Bureau, CCP 1963-68; criticized and removed from office during Cultural Revolution 1967; Alt. mem. 10th Cen. Cttee. of CCP 1973; Minister of Communications 1975-79; mem. 11th Cen. Cttee. CCP 1977; First Political Commissar PLA Naval Units 1979-. *Address:* People's Republic of China.

YEH, George Kung-Chao, M.A.; Chinese politician and diplomatist; b. 1904; ed. Amherst Coll., Mass., U.S.A., and Cambridge Univ.; Prof. of English, Nat. Peking Univ. 1926-27; Asst. Prof. Nat. Chinan Univ. 1927-29; Prof. Tsing Hua Univ. 1929-35; Prof. and Chair. Dept. Western Languages and Literature, Nat. Peking Univ. 1935-39; Research Fellowship, China Foundation 1937-39; Dir. British Malaya Office, Chinese Ministry of Information 1940-41, Dir. U.K. Office 1942-46; Counsellor and concurrently Dir. of European Affairs Dept., Ministry of Foreign Affairs 1946-47; Admin. Vice-Minister of Foreign Affairs 1947-49; Amb. Extraordinary on Special Mission to Burma 1947; Vice-Minister 1949, Minister of Foreign Affairs (Taiwan) 1949-58; Chair. Chinese del., Seventh, Ninth and later Sessions UN Gen. Assembly; Amb. to U.S.A. 1958-61; Minister without Portfolio 1961-78; Special Grand Cordon, Order of Brilliant Star, Order of Propitious Cloud, many foreign decorations; Hon. LL.D. (Seoul and Amherst). *Publications:* Social Forces in English Literature, Introducing China, The Concept of Jen, Cultural Life in Ancient China (Royal Soc. of Arts Medal 1943), On Ancient Chinese Poetry. *Address:* c/o The Executive Yuan, Taipei, Taiwan.

YELISEYEV, Georgiy Ivanovich; Soviet sports administrator; b. 1913; ed. Leningrad Builders' School and Leningrad Inst. of Physical Culture; Technician, then building engineer 1935-37; Chief Training Sports Dept., then Asst. Chair. Regional Council Sporting Soc. Burevestnik, Leningrad 1937-39; mem. CPSU 1944; engineer for sporting constructions, Regional Council Sporting Soc. Burevestnik, Leningrad 1947-49; Chair. Central Council Sporting Soc. Burevestnik 1949-53; 1955-56; 1962-; Section Chief of Physical Culture and Sports Dept. of U.S.S.R. Central Council of Trade Unions 1953-55, Chief 1956-61; Pres. U.S.S.R. Council Voluntary Sporting Socs. of Trade Unions 1961-; Deputy Pres. Central Council U.S.S.R. Union of Sporting Socs. and Orgs. 1965-; U.S.S.R. Cttee. for Sports and Physical Culture 1968-; Order Red Banner (twice), Alexander Nevsky, Great Patriotic War, Red Star, Red Banner of Labour. *Address:* U.S.S.R. Committee for Physical Culture and Sports, 4 Skatertny pereulok, Moscow, U.S.S.R.

YELYUTIN, Vyacheslav Petrovich, DR.TECH.SC.; Soviet scientist and politician; b. 11 March 1907, Saratov; ed. Moscow Steel Inst.; Instructor, Moscow Steel Inst. 1930-35; Dean, Deputy Dir. All-Union Industrial Acad., Moscow 1935-41; Soviet Army 1941-45; Dir. Moscow Steel Inst. 1945-51; mem. CPSU 1929-; Deputy Minister of Higher Educ. of the U.S.S.R. 1951-54, Minister of Higher Educ. 1954-59; Minister of Higher and Secondary Special Educ. 1959-; Cand. mem. Cen. Cttee., Communist Party of the Soviet Union 1956-61, mem. 1961-; Deputy to U.S.S.R. Supreme Soviet 1962-; Corresp. mem. Soviet Acad. of Sciences 1962; State Prize 1952; Order of Lenin (three times); Order of the Red Banner of Labour, Badge of Honour (twice) and other decorations. *Publications:* Production of Ferrous Alloys 1957, The High School of the Country of Socialism 1959, The Development of the High School in the U.S.S.R. 1970. *Address:* Ministry of Higher and Secondary Specialized Education, 11 Ulitsa Zhdanova, Moscow, U.S.S.R.

YEMELYANOV, Vasiliy Semyonovich; Soviet metallurgist; b. 12 Feb. 1901, Khvalynsk, Saratov Region; ed. Moscow Mining Acad.; Dir. Chelyabinsk Mining Plant 1935-37; Defence Cttee. 1937-40; Dir. Standards Cttee. 1940-46; metallurgist in tank factory in Urals during Second World War, designed gun turret, Dept. Head Moscow Engineering and Physics Inst. 1946-; Dir. Admin. for Peaceful Uses of Atomic Energy 1958-60; Chair. State Cttee. for Atomic Energy 1960-62, Deputy Chair 1962-65; Editor-in-Chief Atomic Energy 1958; mem. CPSU 19-, Cand. mem. CPSU Cen. Cttee. until 1966; mem. UN Consultative Cttee. 1955-65, UN Int. Agency for Atomic Energy 1957-65; Corresp. mem. Soviet Acad. of

Sciences 1953; Chair. Comm. on Scientific Problems of Disarmament under Presidium of U.S.S.R. Acad. of Sciences, U.S.S.R. State Prize 1942, 1951; Hero of Socialist Labour 1954; Order of Lenin (four), October Revolution and other decorations. *Publications include:* On Production of Manganese Steel 1934, Influence of Nitrogen on Properties of Steel 1935, Mechanical Properties of Dual and Triplet Alloys of Zirconium with Tantalum and Niobium at Normal and High Temperatures 1958, The Metallurgy of Atomic Fuel 1968, About Times, Comrades and Myself 1968, On the Threshold of War 1971. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

YEMEN, former King of (*see* Saif al-Islam, Mohammed al-Badr).

YEN CHIA-KAN, B.SC.; Chinese politician; b. 23 Oct. 1905, Soochow, Kiangsu; s. of Yen Yang-ho and Yen Wan; m. Ann Liu 1924; five s. four d.; ed. St. John's Univ., Shanghai; various govt. posts including Commr. of Reconstruction, Fukien Provinicial Govt. 1938-39, Finance Commr. Fukien Province, Chair. Fukien Provincial Bank 1939-45; Dir. of Procurement, War Production Board 1945; Communications Commr., Taiwan Provincial Govt. 1945-46, Finance Commr. 1946-49; Chair. Bank of Taiwan 1946-49; Minister of Econ. Affairs, Republic of China (Taiwan) 1950, of Finance 1950-54, 1958-63; Vice-Chair. Council for U.S. Aid 1950, 1963; Gov. of Taiwan 1954-57; Minister without Portfolio 1957-58; Chair. Council for U.S. Aid 1957-58; Pres. Exec. Yuan (Prime Minister) 1963-72; Chair. Council for Int. Econ. Co-operation and Devt. 1963-69; Vice-Pres. of Taiwan 1966-75, Pres. 1975-78; Hon. LL.D. (Nat. Seoul Univ., Korea) 1964, Hon. D.Pol. (Nat. Chulalongkorn Univ., Thailand) 1968; numerous foreign decorations. *Leisure interests:* music, photography. *Address:* 4 Section II, Chungking South Road, Taipei, Taiwan (Home).

YENDO, Masayoshi, B.SC.(ARCH); Japanese architect; b. 30 Nov. 1920, Yokohama; s. of Masanao Yendo and Ima Nakamura; m. Fumi Matsuzaki 1956; two s.; ed. Waseda Univ.; Murano Architect Office 1946-49; Pres. M. Yendo Associated Architects and Engineers 1952-; Dir. Board, Japan Architects Assen. 1971-; Vice-Pres. Japanese Architectural Design Assen. 1975-; Dir. Board Tokyo Architectural Design Supervisory Assen. 1975-; Geijutsu Sensyo (Art Commendation Award) 1965; Architectural Inst. of Japan Award 1965; *Buildings include:* Keio Terminal and Dept. Store Building 1960, Resort Hotel Kasyóen 1962, Yamaguchi Bank Head Office 1962, Coca-Cola (Japan) Head Office 1968, Yakult Honsha Co. Ltd. Head Office 1970, Tokyo American Club 1971, Heibon-sha Co. Head Office 1972, Taiyo Fishery Co. Ltd. Head Office 1973, Seiyu Store Kasugai Shopping Centre 1975. *Leisure interest:* golf. *Address:* M. Yendo Associated Architects and Engineers, Nakajima Building, 5-6, 8-chome, Ginza, Chuo-ku, Tokyo 104, Japan. *Telephone:* 572-8321 (Tokyo).

YEO, Edwin H., III, B.A.; American banker and government official; b. 23 May 1934, Youngstown, Ohio; s. of Edwin H. and Virginia Blevins Yeo; m. (divorced); 2nd Gretchen Greene, two s. one d.; ed. Univ. of Maryland; served U.S. Marine Corps 1952-55; with Pittsburgh Nat. Bank 1959-75, Senior Vice-Pres. 1968-72, Vice-Chair. 1972-75; Under-Sec. of the Treasury for Monetary Affairs 1975-77; Chair. Asset and Liability Man. Cttee., First Nat. Bank of Chicago 1977-; Dir. Diston, Inc.; mem. Bank Admin. Inst. Task Force on Municipal Credit; Chair. Greater Pittsburgh Fund Raising U.S. Olympic Cttee. 1970. *Publications:* Business News and Trends of Pittsburgh National Bank 1960-75. *Leisure interest:* raising Charolais cattle. *Address:* First National Bank of Chicago, 1 First National Plaza, Chicago, Ill. 60670 (Office); 505 North Lake Shore Drive, Chicago, Ill. 60611, U.S.A. (Home).

YEPISHEV, Gen. Aleksey Alekseyevich; Soviet politician and army officer; b. 19 May 1908, Astrakhan; ed. Red Army Acad. of Mechanisation; mem. CPSU 1929-; First Sec. Kharkov Regional and City Cttees. CP Ukraine, Plenipotentiary Rep. Military Council, Stalingrad Front, Deputy People's Commissar for Medium Machine Building U.S.S.R. 1938-43; Soviet army service 1943-46; Sec. Central Cttee. CP Ukraine 1946-50; Deputy Minister of State Security U.S.S.R. 1951-53; First Sec. Odessa Regional Cttee. CP Ukraine 1950-51, 1953-55; Amb. to Romania 1955-61, to Yugoslavia 1961-62; Head, Political Dept., Soviet Army and Navy 1962-; Cand. mem. Cen. Cttee. CPSU 1952-64, mem. of the Cen. Cttee. of CPSU 1964-; Gen. of the Army 1962-; Deputy to U.S.S.R. Supreme Soviet 1938-46, 1950-; mem. Comm. for Foreign Affairs, Soviet of Union; Awarded Order of Lenin (twice), Order of the Red Banner (three times), Red Star, Bogdan Khmelnitsky (1st class), Order of Fatherland War (1st class), Hero of the Soviet Union and others. *Address:* Supreme Soviet of the U.S.S.R., Moscow, U.S.S.R.

YERBY, Frank Garvin; American novelist; b. 5 Sept. 1916, Augusta, Georgia; s. of Rufus and Wilhelmina Yerby; m. 2nd Blanca Calle Pérez 1956; two s. two d. (from previous marriage); ed. Paine Coll., Fisk Univ. and Univ. of Chicago; Teacher, Florida Agricultural and Mechanical Coll. 1939, Southern Univ. 1940-41; Lab. Technician, Ford Motor Co., Detroit 1941-44, Ranger Aircraft, New York 1944-45; writer 1944-. *Publications:* The Foxes of Harrow 1946, The Vixens 1947, The Golden Hawk 1948, Pride's Castle 1949, Flood Tide 1950, A Woman Called Fancy 1951, The Saracen Blade 1952, The Devil's Laughter 1953, Benton's Row 1954, The Treasure of Pleasant Valley 1955, Captain Rebel 1956, Fairoaks 1957, The Serpent and the Staff 1958, Jarrett's Jade 1959, Gillian 1960, The Garfield Honor 1961, Griffin's Way 1962, The Old Gods Laugh 1964, An Odour of Sanctity 1966, Goat Song 1967, Judas, My Brother 1968, Speak Now 1969, The Dahomean 1971, The Girl from Storyville 1972, The Voyage Unplanned 1974, Tobias and the Angel 1975, A Rose for Ana Maria 1976, Hail the Conquering Hero 1978. *Leisure interests:* photography, electronics, painting. *Address:* c/o William Morris Agency, 1350 Avenue of the Americas, New York, N.Y. 10019, U.S.A.; Edificio Torres Blancas, Avenida de América 37, Madrid 2, Spain.

YEVTUSHENKO, Yevgeniy Aleksandrovich; Soviet poet; b. 18 July 1933, Zima, Irkutsk Region; m. Jan Butler 1978; one s.; ed. Moscow Literary Inst.; Geological expeditions with father to Kazakhstan 1948, the Altai 1950; literary work 1949-; visits to France, Africa, U.S.A., Cuba, U.K., Germany; mem. Editorial Board of Yunost magazine; U.S.S.R. Cttee. for Defence of Peace Award 1965, Order of Red Banner of Labour. *Publications:* verse: Scouts of the Future (collected verse) 1952, The Third Snow (lyric verse) 1955, The Highway of Enthusiasts 1956, Zima Junction 1956, The Promise (collected verse) 1959, Conversation with a Count, Moscow Goods Station, At the Skorokhod Plant, The Nihilist, The Apple 1960-61, A Sweep of the Arm 1962, Tenderness 1962, A Precocious Autobiography 1963, Cashier, Woman, Mother, On the Banks of the Dnieper River, A Woman and A Girl, Do the Russians Want War?, Bratskaya Hydro-Electric Power Station 1965, A Boat of Communication 1966, Poems Chosen by the Author 1966, Collection of Verses 1967, That's What Is Happening to Me 1968, It's Snowing White 1969, Kazan University 1971, I am of Siberian Stock 1971, The Singing Domba 1972, Stolen Apples 1972, Under the Skin of the Statue of Liberty (play) 1972, Intimate Lyrics 1973, A Father's Hearing 1976, Love Poems 1977, The Face Behind the Face 1979; acted in film on Tsiolkevsky 1979. *Address:* Union of U.S.S.R. Writers, ul. Vorovskogo 52, Moscow, U.S.S.R.

YEZHOV, Valentin Ivanovich; Soviet screen-play writer; b. 21 Jan. 1921, Kuibyshev; ed. All-Union State Inst. of Cinematography; mem. CPSU 1951-; Lenin Prize 1961 for script of Ballad of a Soldier 1959; co-author scripts for Our Champions 1954, World Champion 1955, Liana 1956, A Man from the Planet Earth 1958, The House of Gold 1959, The Volga Flows 1962, Story of a Woman Flier 1964, Wings 1966, A Nest of Gentry 1969, The Legend 1971. *Address:* Mosfilm Studios, 1 Mosfilmovskaya ulitsa, Moscow, U.S.S.R.

YHOMBI-OPANGO, Brig.-Gen. Joachim; Congolese army officer and Head of State; b. 1939; trained in French army; fmr. military attaché at Congolese Embassy, Moscow; Chief of Staff, People's National Army 1968-73, Insp.-Gen. 1973-74; Sec.-Gen. of Council of State with rank of Minister Feb. 1974-Jan. 1975, Council of State Delegate responsible for Defence and Security Sept. 1974-75; Pres. of Republic, Pres. Council of Ministers, Pres. Mil. Council of Congolese Labour Party 1977-79; Order of Nat. Flag (North Korea) 1978. *Address:* c/o Présidence de la République Populaire, Brazzaville, Congo.

YODER, Hatten Schuyler, Jr., PH.D.; American petrologist; b. 20 March 1921, Cleveland, Ohio; s. of Hatten Schuyler Yoder and Elizabeth Katherine (née Knieling); m. Elizabeth Marie Bruffey 1959; one s. one d.; ed. Univs. of Chicago and Minnesota and Massachusetts Inst. of Technology; active duty, U.S. Naval Reserve 1942-46, MOKO expedition to Siberia 1945-46, Lieut.-Commdr., retd.; Petrologist, Geophysical Lab., Carnegie Inst. of Washington 1948-71, Dir. 1971-; mem. Editorial Board Geochimica et Cosmochimica 1958-68; N. American Editor, Journal of Petrology 1959-68, Hon. mem. Advisory Board 1968-; Assoc. Editor American Journal of Science 1972-; Visiting Prof. of Geochemistry, Calif. Inst. of Technology 1958, Visiting Prof. of Petrology, Univ. of Tex. 1964, Univ. of Colo. 1966, Univ. of Cape Town 1967; new mineral, Yoderite named in his honour; Fellow, Mineralogical Soc. of America (mem. Council 1962-64, Vice-Pres. 1970-71, Pres. 1971-72), Geological Soc. of America (mem. Council 1966-68), American Geophysical Union (Pres. Volcanology, Geochemistry and Petrology Section 1961-64, mem. Council 1965-68); mem. Nat. Acad. of Sciences 1958-, Geology Section Chair. 1973-76; mem. U.S. Nat. Cttee. for Geology 1973-76, for Geochemistry 1973-76, Hon. mem. All-Union Mineralogical Soc. of U.S.S.R. 1977-; Corresp. Fellow, Edinburgh Geological Soc.;

Mineralogical Soc. of America Award 1954, Columbia Univ. Bicentennial Medal 1954, Arthur L. Day Medal of Geological Soc. of America 1962, A. L. Day Prize and Lectureship of Nat. Acad. of Sciences 1972, A. G. Werner Medal of German Mineralogical Soc. 1972, Golden Plate, American Acad. of Achievement 1976. *Publications:* Principal papers: The Jadeite Problem (American Journal of Science Vol. 248) 1950, High-low Quartz Inversion up to 10,000 Bars (Transactions of American Geophysical Union Vol. 31) 1950, The MgO—Al_2O_3—SiO_2—H_2O System and Related Metamorphic Facies (American Journal of Science Bowen Volume) 1952, Role of Water in Metamorphism (Geological Soc. of America Special Paper No. 62) 1955, Experimental and Theoretical Studies of the Mica Polymorphs (with J. V. Smith, Mineral Magazine Vol. 31) 1956, Origin of Basalt Magmas: an Experimental Study of Natural and Synthetic Rock Systems (with C. E. Tilley Journal of Petrology Vol. 3 1962), Contemporaneous Basaltic and Rhyolitic Magmas (American Mineralogist, Vol. 58) 1973-, Book: Generation of Basaltic Magma 1976, The Evolution of the Igneous Rocks: Fiftieth Anniversary Perspectives (editor) 1979. *Leisure interests:* camping, trombone, rifle and pistol marksmanship, gardening. *Address:* Geophysical Laboratory, Carnegie Institution of Washington, Washington, D.C. 20008, U.S.A. *Telephone:* 202 966 0334.

YOKOTA, Takashi; Japanese banker; b. 31 Jan. 1909, Tokyo; ed. Keio Univ.; joined the Nippon Kangyo Bank Ltd. 1933, Dir. 1958, Deputy Pres. 1966, Pres. 1969; Pres. The Dai-Ichi Kangyo Bank Ltd. 1971-76, Chair. Sr. Exec. Cttee. 1976-; Dir. The Fukoku Mutual Life Insurance Co.; Chair. Board of Councillors, Keio Univ. *Leisure interests:* golf, reading. *Address:* The Dai-Ichi Kangyo Bank Ltd., 6-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo (Office); 30-12, Fukazawa 1-chome, Setagaya-ku, Tokyo, Japan (Home). *Telephone:* 03-216-1111 (Office); 03-704-6823 (Home).

YOKOYAMA, Soichi; Japanese banker; b. 30 Nov. 1914, Tokyo; s. of Gengoro and Yone Yokoyama; m. Sumiko Mizukami 1939; one s.; ed. Hitotsubashi Univ.; joined Yokohama Specie Bank 1938; joined Bank of Tokyo Ltd. 1947, Dir., Agent of New York Agency 1963, Resident Dir. for Europe, London 1965, Man. Dir. 1965, Senior Man. Dir. 1969, Deputy Pres. 1972, Pres. 1973-, Chair. of Board of Dirs. 1977-; Dir. UBAN—Arab Japanese Finance Ltd., Hong Kong 1974-; Chair. Cttee. on Int. Finance, Fed. of Econ. Org. 1974-; mem. Cttee. on Financial System Research, Ministry of Finance 1975-. *Leisure interest:* reading. *Address:* Bank of Tokyo Ltd., 2-1-1, Muromachi, Nihombashi, Chuo-ku, Tokyo 103 (Office); 14-25, Sugamo 3-chome, Toshima-ku, Tokyo 170, Japan (Home). *Telephone:* 03-270-8111 (Office); 03-918-1894 (Home).

YONG NYUK LIN; Singapore politician and diplomatist; b. 24 June 1918, Seremban, Malaya; s. of the late Yong Thean Yong and Chen Shak Moi; m. Kwa Geok Lan 1939; two s.; ed. Raffles Coll.; Science master, King George V School, Seremban, Malaya 1938-41; Overseas Assurance Corpn., Singapore, rising to Gen. Man. 1941-58, resigned; Minister for Educ. 1959-63; Chair. Singapore Harbour Board 1961-62; Minister for Health 1963-68, for Communications 1968-75, without Portfolio 1975-76; High Commr. in U.K. 1975-76. *Leisure interests:* swimming, golf, stereo music. *Address:* c/o Ministry of Foreign Affairs, Singapore.

YONGE, Sir (Charles) Maurice, C.B.E., D.SC., F.R.S.; British biologist; b. 9 Dec. 1899, Wakefield, Yorks.; s. of John Arthur Yonge and Sarah Edith Carr; m. 1st Martha Jane Lennox (died 1945), one s. one d.; m. 2nd Phyllis Greenlaw Fraser 1954, one s.; ed. Univ. of Edinburgh; Baxter Natural Science Scholar, Univ. of Edinburgh 1922-24; Naturalist, Plymouth Laboratory 1924-27; Balfour Student, Univ. of Cambridge 1927-29; Leader, Great Barrier Reef Expedition 1928-29; Physiologist, Plymouth Laboratory 1930-32; Prof. of Zoology, Univ. of Bristol 1933-44; Regius Prof., Univ. of Glasgow 1944-64; Research Fellow in Zoology, Univ. of Glasgow 1965-70; Visiting Prof., Univ. of Calif., Berkeley 1949, Univ. of Washington, Seattle 1959; Prather Lecturer, Harvard Univ. 1957; Hon. Fellow, Univ. of Edinburgh 1970-; Pres. Royal Soc., Edinburgh 1970-73; mem. Danish Acad. of Arts and Science, Royal Soc. of New Zealand, Calif. Acad. of Science; Hon. D.Sc. (Bristol, Heriot-Watt, Manchester); Makdougall-Brisbane Prize, Royal Soc. of Edinburgh 1956; Darwin Medal, Royal Soc., London 1968; Hon. Life Fellow, Pacific Science Assen. 1971. *Publications:* The Seas (with F. S. Russell.), A Year on the Great Barrier Reef, The Sea Shore, Oysters, Guide to the Sea Shore (with J. Barrett), Physiology of Mollusca (edited with K. M. Wilbur), Living Marine Molluscs (with T. E. Thompson); many papers in standard scientific journals in Great Britain and U.S.A. on marine zoology, especially Mollusca and coral reefs. *Leisure interests:* reading of history, woodwork, travel. *Address:* 13 Cumin Place, Edinburgh EH9 2JX, Scotland. *Telephone:* 031-667-3678.

YORK, Herbert Frank, PH.D.; American physicist; b. 24 Nov. 1921, Rochester, N.Y.; s. of Herbert and Nellie York; m. Sybil Dunford 1947; one s. two d.; ed. Rochester and California Univs.; joined staff of Calif. Univ. Radiation Lab. 1943; attached to Y-12 Plant, Oak Ridge, Tenn. 1944-45; Univ. of Calif. Graduate School 1945-49; undertook, with Dr. Hugh Bradner, design and execution of major experiment in "Operation Greenhouse" (Eniwetok) 1950; Asst. Prof. of Physics, Univ. of Calif. 1951; headed programme, Livermore weapon devt. lab. 1952-54, Dir. 1954-58; Assoc. Dir. Univ. of Calif. Radiation Lab. 1954-58; Dir. of Research, Advanced Research Projects Div., Inst. for Defense Analyses, Chief Scientist, Dept. of Defense Advanced Research and Eng., Dept. of Defense 1958-61; Chancellor, Univ. of Calif. at San Diego 1961-64, 1970-72, Dean of Graduate Studies 1969-70, Dir. Program in Science, Tech. and Public 1969-70, Dir. Program in Science, Tech. and Public Affairs, Prof. of Physics, Univ. of Calif. 1961-; Consultant in Office of Secretary of Defense 1977-, in Exec. Office of Pres. 1977-; mem. Defense Science Board 1978-; fmr. mem. Army and Air Force Scientific Advisory Board; Vice-Chair. President's Science Advisory Cttee. 1965-67, mem. 1957-58, 1964-68; mem. Gen. Advisory Cttee. for Arms Control and Disarmament 1962-69, Office of Tech. Assessment Advisory Cttee.; mem. President's Comm. on Mil. Compensation 1977-78; mem. Board of Trustees, Aerospace Corpn. 1961-, Board of Trustees, Inst. for Defense Analyses 1964-; mem. Exec. Cttee. Fed. of American Scientists 1970-75, Int. Council, Pugwash Movement 1972-76, Board of Dirs. Arms Control Assen.; Personal Rep. of Sec. of Defense at Anti-Satellite Arms Negotiations, Helsinki 1977, Berne 1978; mem. American Acad. of Arts and Sciences. *Publications:* Race to Oblivion 1970, Arms Control Readings 1973, The Advisors 1976, and various articles on physics and arms control problems. *Address:* University of California, San Diego, B-031, La Jolla, Calif. 92093 (Office); 6110 Camino de la Costa, La Jolla, Calif., U.S.A. (Home). *Telephone:* (714) 452-3357 (Office); (714) 459-1776 (Home).

YORK, Susannah; British actress; b. 9 Jan. 1941, London; m.; one s. one d.; ed. Royal Acad. of Dramatic Art; acted in films: Tunes of Glory 1960, There Was A Crooked Man 1960, The Greengage Summer 1961, Freud 1962, Tom Jones 1963, The Seventh Dawn 1964, Scene Nun—Take One 1964, Sands of the Kalahari 1965, Scruggs 1966, Kaleidoscope 1966, A Man for All Seasons 1966, Sebastian 1967, The Killing of Sister George 1968, Duffy 1968, Oh What a Lovely War 1968, The Battle of Britain, Lock up Your Daughters 1969, They Shoot Horses, Don't They? 1969, Country Dance 1970, Jane Eyre 1970, Zee and Co. 1971, Happy Birthday Wanda June 1971, Images 1972, The Maids, Gold 1974, Conduct Unbecoming 1974, That Lucky Touch 1975, Skyriders 1976, Eliza Fraser 1976, The Shout 1977, The Silent Partner; plays: Wings of a Dove, A Singular Man, A Cheap Bunch of Nice Flowers, The Maids, The Great Ban, Peter Pan 1977; television: The Crucible, The Creditors, La Grande Breteche, Fallen Angels. *Publications:* children's books: In Search of Unicorns, Lark's Castle. *Address:* c/o International Creative Management, 22 Grafton Street, London, W.1, England. *Telephone:* 01-629 8080.

YORTY, Samuel William; American lawyer and politician; b. 1 Oct. 1909, Lincoln, Neb.; s. of Frank Patrick Yorty and Johanna Egan; m. Elizabeth Hensel 1938; one s.; ed. Southwestern Univ. and Univ. of S. California; admitted to Calif. Bar 1939; mem. Calif. State Ass. 1936-40, 1949-50; U.S.A.F. 1942-45; U.S. Congressman, Calif. 1950-54; Mayor of Los Angeles 1961-73; Republican; Chevalier, Légion d'honneur, Order of the Sun of Peru 1968, Order of Civil Merit (Repub. of Korea) 1970, Order of the Homayoun Medal (Iran) 1972. *Leisure interests:* swimming, reading biographies, playing paddle tennis, banjo, singing. *Address:* 320 North Vermont Ave., Los Angeles, Calif. 90004, U.S.A. *Telephone:* (213) 666-3600.

YOSEPH, Ovadya; Israeli Rabbi; b. Baghdad, Iraq; mem. Sephardi Rabbinical Court 1945; Chief of Rabbinical Court of Appeals and Deputy Chief Rabbi of Egypt (Cairo) 1947; mem. regional Rabbinical Court of Petach Tiqva 1951, Jerusalem 1958; mem. Grand Court of Appeals, Jerusalem 1965; Pres. of Great Metivta, Jerusalem; Pres. "Yeshivat Thora Ve-horaa", Tel-Aviv; mem. Management "Yeshivat Porath" Jerusalem; Pres. Cttee. of Building Fund for "Yeshivat Porath Yoseph" in the Old City; Chief Rabbi and Chief of Rabbinical Court, Tel-Aviv 1968-; Sephardi Chief Rabbi of Israel Oct. 1972-; Rabbi Kook Prize, Rabbi Uziel Prize. *Publications:* Yobia Omer, several vols. of Responsa, Hazon Ovadia. *Address:* Chief Rabbinate, 51 Hamelech David Boulevard, Tel-Aviv, Israel.

YOSHIDA, Kenzo; Japanese diplomatist; b. 19 Sept. 1917, Toyama; ed. Tokyo Univ.; Consul-Gen. in Honolulu, U.S.A. 1961-63; Counsellor, Embassy in U.K., concurrently Consul-Gen. in London 1963-65, Minister in U.K. 1965; Minister in Repub. of Korea 1965-

67; Amb. to Tanzania 1967-69, concurrently to Zambia 1968-69; Dir.-Gen. Immigration Bureau, Ministry of Justice, Tokyo 1969-72; Dir.-Gen. Asian Affairs Bureau, Ministry of Foreign Affairs 1972-73; Amb. to Australia 1973-75, concurrently to Nauru and Fiji 1974-75; Amb. to Brazil 1976-. *Address:* Embassy of Japan, SES, Avenida das Nações, Lote 39, Caixa Postal 070891, Brasília, D. F., Brazil.

YOSHIDA, Taroichi; Japanese international banker; ed. Tokyo Imperial Univ.; served Ministry of Finance, Dir. of Banking Bureau, later Vice-Minister for Int. Affairs and Special Adviser to Minister 1944-76; Pres. Asian Devt. Bank 1976-. *Address:* Asian Development Bank, 2330 Roxas Boulevard, Pasay City, P.O.B. 789, Manila, Philippines.

YOSHIKI, Masao, DR. ENG.; Japanese engineer; b. 20 Jan. 1908, Nagasaki; s. of Tei and Kuni Yoshiki; m. Miyoko Kuwabara 1933; two s. four d.; ed. Univ. of Tokyo; Lecturer, School of Eng., Univ. of Tokyo 1930-32; Asst. Prof., Univ. of Tokyo 1932-44, Prof. of Naval Architecture, 1944-68; Pres. Soc. of Naval Architects of Japan 1961-63; Dean, School of Eng., Univ. of Tokyo 1962-64; Chair. Int. Ships Structures Congress 1967-70; Chief Dir., Japan Soc. for the Promotion of Science 1968-76; Prof. Emer. Univ. of Tokyo; Commr. Space Activities Comm. 1968-74, 1976-; Chair. Science Council, Ministry of Educ. 1974-; Pres. The Japan Fed. of Eng. Socs. 1977-; Vice-Chair. Japanese Nat. Comm. for UNESCO 1976; Vice-Pres. Science Council of Japan 1969-72; mem. Council Science and Tech. 1974-77; Prize of Japan Acad. 1966, Purple Ribbon Decoration 1968, Fujiwara Prize 1968, Chevalier, Légion d'honneur 1977, Order of the Sacred Treasure (1st Rank). *Publications:* Articles in journals. *Leisure interests:* golf, Japanese chess. *Address:* 43-14, Izumi 2-chome, Suginami-ku, Tokyo, Japan. *Telephone:* 03-581-1559 (Office); 03-328-0210 (Home).

YOSHIKUNI, Ichiro; Japanese civil servant; b. 2 Sept. 1916, Yokohama; s. of the late Kenzo Yoshikuni and Matsuko Yoshikuni; m. Tomiko Arai 1946; one d. one s.; ed. Tokyo Imperial Univ.; with Ministry of Commerce and Industry 1940-47; mem. Board of Trade 1947-48; Attorney-Gen's. Office, Legislative Bureau 1948-52; Cabinet Legislative Bureau 1952-76, Dir. of Third Div. 1959-64, Dir. First Div. 1964, Asst. Dir.-Gen. 1964-72, Dir.-Gen. 1972-76; Pres. Japan Regional Devt. Corpn. 1976-; Hon. K.B.E. 1975. *Publications:* (co-author) Manual on the Drafting, Application and Interpretation of Law 1949, Legislative Drafting 1952, Dictionary of Public Finance and Accounting 1974. *Leisure interests:* reading, music, cinema, go (7th dan). *Address:* 5-35-17 Jingumae, Shibuya-ku, Tokyo, Japan. *Telephone:* 03-580-8161 (Office); 03-499-4492 (Home).

YOSHIMURA, Junzo; Japanese architect; b. 7 Sept. 1908, Tokyo; s. of Shinzo and Tama Yoshimura; m. Takiko Ohmura 1944; one d.; ed. Tokyo Acad. of Fine Arts; at Architectural Office of Antonin Raymond 1931-42; own architectural practice 1943-; Asst. Prof. in Architecture, Tokyo Univ. of Arts 1945-61, Prof. 1962-70, Prof. Emer. 1970-; mem. Architectural Inst. of Japan, Japan Architects' Assen., Soc. de Arquitectos Mexicanos; Hon. Fellow American Inst. of Architects 1975-; Architectural Inst. Prize 1956, Parsons Medal (New York) 1956, Japanese Acad. of Arts Award 1975. *Works include:* Int. House of Japan, Tokyo 1955, Public Kambara Hospital 1956, The Motel on the Mountain, New York 1956, Hotel Kowakien, Hakone 1959, Mountain House for Yawata Iron and Steel Co., Kujyu 1960, N.C.R. H.Q., Tokyo 1962, Americana Building, Osaka 1965, Prefectural Aichi Univ. of Arts, Aichi 1965-71, Aoyama Tower Building, Tokyo 1969, Hotel Fujita, Kyoto 1970, Japan House, New York 1971, Nara Nat. Museum 1973, Norwegian Embassy, Tokyo 1978, and many residences. *Leisure interests:* music, travel. *Address:* 8-6, Mejiro 3-chome, Toshima-ku, Tokyo (Office); 30-24 Minamidai 5-chome Nakano-ku, Tokyo, Japan (Home). *Telephone:* 954-0991 (Office) and 381-1282 (Home).

YOSHIYAMA, Hirokichi; Japanese business executive; b. 1 Dec. 1911; ed. Faculty of Engineering, Univ. of Tokyo; joined Hitachi, Ltd. 1935, Dir. 1961, Exec. Man. Dir. 1964, Senior Exec. Man. Dir. 1968, Exec. Vice-Pres. 1969, Pres. Nov. 1971-; Chair. Tokyo Atomic Industrial Consortium. *Address:* Hitachi, Ltd., New Marunouchi Building, No. 5-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100, Japan. *Telephone:* 03-212-1111.

YOSINO, Bunroku; Japanese diplomatist; b. 8 Aug. 1918, Matsumoto; m.; one s. one d.; entered Foreign Ministry 1941; Attaché, Berlin 1941; Sec., Washington, D.C. 1953; Econ. Dept. of Ministry 1956; Counsellor, Bonn 1961; Deputy Dir.-Gen. Econ. Co-operation Dept. of Ministry 1964; Head of Mission, Washington, D.C. 1968; Dir.-Gen. U.S. Dept. of Ministry 1971; Amb. to OECD, Paris 1972; Sec. of State, Foreign Ministry 1975; Amb. to Fed. Repub. of Germany 1978-. *Leisure interests:* books, golf. *Address:* Embassy of Japan, Bonn Centre HI-701, Bonn, Federal Republic of Germany. *Telephone:* 5001.

YOSIZAKA, Takamasa; Japanese architect and town planner; b. 13 Feb. 1917, Tokyo; s. of Syunzô Yosizaka; m. Kôno-Hukoko 1945; two s. one d.; ed. Waseda Univ., Tokyo; Lecturer, Japan Women's Coll. 1942-50, Tokyo Agricultural School 1945-48, Yamanasi Univ. 1956-57, Tucumán Nat. Univ. Argentina 1961-62; Asst. Prof. Waseda Univ. 1950, Prof. 1959, Head of Dept. of Architecture 1964-65, Dean of School of Science and Engineering 1969-72; Man. Waseda Univ. Expedition to Equatorial Africa 1958, and Leader of its MacKinley Alaska Expedition 1960; Vice-Pres. Architectural Inst. of Japan 1967-68, Pres. 1973-74; Pres. Inst. of Studies on Living, Building Survey Inst.; mem. Japanese Assen. of Architects; Dir. Capital Region Comprehensive Planning Inst.; Pres. Waseda Univ. Coll. 1978-. *Principal works:* Japanese Pavilion, Venice Biennale 1956, Maison Franco-Japonais 1959, Athénée Français 1962, Gotu City Hall 1962, Univ. Seminar House 1965, Ikoma Space Museum 1969; Projects: Redevelopment Plans for Tokada-no Baba District and Izu, Oosima, Hirosaki, Sendai. *Publications:* Form and Environment 1955, Primitive Country to Civilized Country 1961, Study on Dwelling 1965, Directive Proclamations 1972, Moi, j'aime pas la mer (trans. into Japanese) 1973. *Leisure interests:* mountaineering, skiing. *Address:* 2-17-24 Hyakunintyô, Sinziku-ku, Tokyo 160, Japan. *Telephone:* 03-361-1083.

YOST, Charles Woodruff, A.B.; American diplomatist; b. 6 Nov. 1907, Watertown, N.Y.; s. of Nicholas Doxtater Yost and Gertrude Cooper; m. Irena Oldakowska 1934; two s. one d.; ed. Princeton Univ. and Ecole des Hautes Etudes Internationales, Paris; entered foreign service 1930; served Alexandria 1930-32, Warsaw 1932-33; free-lance journalism 1933-35; served Dept. of State 1935-45; Asst. to Sec. of State, San Francisco Conf. on UN 1945; Sec.-Gen. to UN del. to Berlin Conf. 1945; served Bangkok 1945-46; Political Adviser to U.S. del. to UN Gen. Assembly 1946; served Prague 1947, Vienna 1947-49; Dir. Office of Eastern European Affairs, Dept. of State 1949-50; Minister in Athens 1950-53; Deputy High Commr. for Austria 1953-54; Minister to Laos 1954-55, Amb. 1955-56; Minister in Paris 1956-58; Amb. to Syria Jan.-Mar. 1958 (terminated by creation of United Arab Repub.); Amb. to Morocco 1958-61; Deputy Rep. to UN Security Council 1961-65; Career Amb. 1964; Deputy Perm. Rep. to UN 1965-66, Perm. Rep. 1969-71; Lecturer in Foreign Policy, Columbia Univ. School of Int. Affairs 1971-73; Counsellor to UNA for U.S.A. 1971-73; Senior Fellow, Council on Foreign Relations 1966-69, Brookings Inst. 1975-; Chair. Nat. Advertising Review Board 1971-73; Pres. The Nat. Cttee. on U.S.-China Relations 1973-75; Special Adviser, Aspen Inst. for Humanistic Studies 1975-. Rockefeller Public Service Award 1964. *Publications:* The Age of Triumph and Frustration 1964, The Insecurity of Nations 1968, The Conduct and Misconduct of Foreign Affairs 1972. *Leisure interests:* arts, literature, swimming, riding. *Address:* Aspen Institute, 2010 Massachusetts Avenue, N.W. Washington, D.C., 20036 (Office); 2801 New Mexico Avenue, N.W., 1411, Washington, D.C. 20007, U.S.A. (Home). *Telephone:* 202-466-6410 (Office); 202-333-6791 (Home).

YOTSUMOTO, Kiyoshi; Japanese business executive; b. 29 Sept. 1908; ed. Kyoto Univ.; Chair. Kawasaki Heavy Industries Ltd., fmrly. Pres. Kawasaki Heavy Industries Ltd., *Address:* Nissei-Kawasaki Bldg., 16-1, Nakamachi-dori, 2-chome, Ikuta-ku, Kobe; P.O. Box 1140 Kobe Central; 4-14-14 Takanawa, Minato-ku, Tokyo, Japan (Home). *Telephone:* 03-449-0151 (Home).

YOUDE, Sir Edward, K.C.M.G., M.B.E.; British diplomatist; b. 19 June 1924, Penarth, Glam.; s. of Alfred Youde; m. Pamela Fitt 1950; two d.; ed. School of Oriental and African Studies, London Univ.; served in various diplomatic posts in China, U.S.A. and U.K. 1947-65; Counsellor, Perm. Mission to UN 1965-69; Private Sec. to Prime Minister 1969-70; Imperial Defence Coll. 1970-71; Head Personnel Services Dept., FCO 1971-73; Asst. Under-Sec. of State, FCO 1973-74; Amb. to People's Repub. of China 1974-78; Deputy Under-Sec. of State, FCO 1978-. *Leisure interests:* walking, Chinese studies. *Address:* c/o Foreign and Commonwealth Office, London, S.W.1, England. *Telephone:* 01-233 3000.

YOUNES, Mahmoud; Egyptian engineer; b. 3 April 1912, Cairo; m. 1941; two s. one d.; ed. Royal Coll. of Engineers, Cairo Univ. and Staff Officers' Coll.; Engineer with Mechanical and Electrical Dept., Ministry of Public Works, Cairo 1937; army engineer 1937; with Mil. Operations Directorate 1943; Lecturer, Staff Officers' Coll. 1944 and 1947; Dir. Technical Affairs Office, G.H.Q. 1952; mem. Permanent Board for Development of Nat. Production 1953; Man. Dir. and Chair. Gen. Petroleum Authority 1954; Pres. Engineers' Syndicate 1954-65; Dir. and Chair. Cie. Orientale des Pétroles d'Egypte et Soc. Coopérative des Pétroles 1958-65; Counsellor, Ministry of Commerce and Industry and Mineral Wealth; Man. Dir. and Deputy Chair. Suez Canal Authority 1956, Chair. 1957-65; mem. Nat. Assembly 1964-; Deputy Prime Minister for Transport

and Communications 1965-67; Minister of Oil and Transport 1967; now in private consulting office in Beirut, Lebanon; Order of Merit (Class I), Order of the Nile (Class III), Military Star, Liberation Medal, Palestine Medal, Grand Cordon of the Order of the Yugoslav Standard, Grand Officer of the Panamanian Nat. Order of Vasco Nuñez de Balboa, Republic Medal (Class III), Military Service Medal (Class I), Order of The Republic (Class I), and other decorations. *Leisure interests:* swimming, reading. *Address:* P.O. Box 7272, Beirut, Lebanon. *Telephone:* 349375.

YOUNG, Andrew; American clergyman, politician and diplomatist; b. 12 March 1932, New Orleans, La.; s. of Andrew J. Young and Daisy Fuller; m. Jean Childs 1954; one s. three d.; ed. Howard Univ. and Hartford Theological Seminary; ordained to ministry, Congregational Church 1955, pastor in Thomasville, Ga. 1955-57; Assoc. Dir. for Youth Work, Nat. Council of Churches 1957-61; Admin. Christian Educ. Program, United Church of Christ 1961-64; on staff Southern Christian Leadership Conf. 1961-70, Exec. Dir. 1964-70, Exec. Vice-Pres. 1967-70, now Dir.; mem. House of Reps. 1972, re-elected 1974, 1976; Perm. Rep. to U.N. 1977-79; Chair. Atlanta Community Relations Comm. 1970-72; Chair. Democratic voter registration drive 1976; organizer of voter registration and community devt. programmes for civil rights movement in 1960s; numerous awards and hon. degrees.

YOUNG, Sir Brian (Walter Mark), Kt.; British administrator; b. 23 Aug. 1922, Ceylon (now Sri Lanka); s. of late Sir Mark Young; m. one s. two d.; ed. Eton Coll., and King's Coll., Cambridge; Asst. Master, Eton Coll., 1947-52; Headmaster of Charterhouse 1952-64; Dir. of Nuffield Foundation 1964-70; mem. Central Advisory Council for Educ. 1956-59; fmr. mem. U.K. Nat. Comm. for UNESCO; Dir.-Gen. Independent Broadcasting Authority Oct. 1970-. *Publications:* Via Vertendi 1952, Intelligent Reading 1964. *Leisure interests:* watching television, reading, music, travel, skin diving and the composition of chess problems and brain teasers. *Address:* Independent Broadcasting Authority, 70 Brompton Road, London SW3 1EY, England. *Telephone:* 01-584 7011.

YOUNG, (Charles) Kenneth, B.A., F.R.S.L.; British author and journalist; b. 27 Nov. 1916, Wakefield, Yorks.; s. of Robert William Young and Alice Jane Young (née Ramsden); m. Phyllis Young (née Dicker) 1951; three s. two d.; ed. Queen Elizabeth's Grammar School, Wakefield, Coatham School, Redcar, and Leeds Univ.; Army Service, World War II; Foreign Office 1944; B.B.C. European Service 1948; Daily Mirror 1950; Perm. Under-Sec. Dept., Cabinet Office 1950; Daily Telegraph 1952-60; Editor The Yorkshire Post 1960-64; Political and Literary Adviser, Beaverbrook Newspapers 1965-; broadcaster, Editor Television series The Book Man 1960; Gov. Welbeck Coll. 1963-73. *Publications:* D. H. Lawrence 1952, John Dryden (critical biography) 1954, Ford Madox Ford 1958, A. J. Balfour (authorized biography) 1963, Churchill and Beaverbrook (a study in friendship) 1966, Rhodesia and Independence 1967, Compton Mackenzie 1968, Music's Great Days at the Spas and Watering Places 1968, The Greek Passion 1969, Sir Alec Douglas-Home 1970, Chapel 1972, The Bruce Lockhart Diaries Vol. I 1973, Vol. II 1977, H. G. Wells (essay) 1974, Life of 6th Earl of Rosebery 1974, Baldwin: A Biography 1976, Arnold Bennett (essay) 1975, Macaulay (essay), J. B. Priestley (essay) 1978. *Leisure interests:* walking, talking, music. *Address:* 35 Central Parade, Herne Bay, Kent, England (Home). *Telephone:* 022-73-5419 (Home).

YOUNG, Sir Frank George, Kt., PH.D., F.R.I.C., F.R.S.; British university professor emeritus; b. 25 March 1908, London; m. Ruth Eleanor Turner 1933; three s. one d.; ed. Alleyn's School and Univ. Coll., London; Bayliss-Starling Scholar, Sharpey Scholar, and Schafer Prizeman, Univ. Coll., London 1929-32; Beit Memorial Fellow at Univ. Coll., London, Univ. of Aberdeen and Univ. of Toronto 1932-36; mem. of scientific staff, Medical Research Council, Nat. Inst. for Medical Research 1936-42; William Julius Mickle Fellow, Univ. of London 1940; Prof. of Biochemistry, St. Thomas's Hospital Medical School, Univ. of London 1942-45, at Univ. Coll., Univ. of London 1945-49; Sir William Dunn Prof. of Biochemistry, Univ. of Cambridge 1949-75, Prof. Emer. 1975-; mem. Medical Research Council 1950-54; Hon. Fellow of Trinity Hall, Cambridge; Master of Darwin College, Cambridge 1964-75, Hon. Fellow 1976; Fellow, Univ. Coll., London; Chair. Editorial Board Biochemical Journal 1942-46; Pres. European Assen. for the Study of Diabetes 1965-68; mem. Royal Comm. on Medical Educ. 1965-68; Treas. Int. Union of Biochemistry 1967-71; Chair. MRC Clinical Endocrinology Cttee. 1967-72; Chair. Advisory Cttee. on Irradiation of Food (U.K.) 1967-; Pres. Int. Diabetes Fed. 1970-73; Trustee, Ciba Foundation 1967-; Pres. British Nutrition Foundation 1970-76; Hon. F.R.C.P.; Hon. Dr. (Montpellier, Rhodesia and Aberdeen Univs. and Univ. Católica de Chile); hon. mem. of many foreign scientific and medical bodies; many lectureships held abroad. *Address:* 11 Bentley Road, Cambridge CB2 2AW, England.

YOUNG, Freddie, O.B.E.; British cinematographer; b. 9 Oct. 1902, London; s. of Henry and Anne Young; m. 1st Marjorie Gaffney (died 1963), one s. one d.; m. 2nd Joan Morouch 1964, one s.; ed. privately; joined film industry 1917; Gaumont Film Studios 1917-27; Dir. of Photography 1927-; British and Dominions Film Corpn. with Herbert Wilcox 1929-39; freelance 1939-40; Capt. in Army (Training Films) 1940-43, invalided out; Chief Cameraman, MGM 1944-59; freelance 1959-; three Acad. Awards (Oscars), three Golden Cameras, one Golden Globe, Prix d'Honneur, Emmy Award from NBC. *Films:* Bitter Sweet 1933, Nell Gwyn 1934, When Knights Were Bold 1936, Victoria the Great 1937, Sixty Glorious Years 1938, Goodbye Mr. Chips 1939, Nurse Edith Cavell 1939, The Man in the Iron Mask 1939, 49th Parallel 1941, The Young Mr. Pitt 1941, Caesar and Cleopatra 1945, Bedelia 1946, So Well Remembered 1947, The Winslow Boy 1948, Edward My Son 1949, Treasure Island 1950, Calling Bulldog Drummond 1951, Ivanhoe 1952, Bhowani Junction 1956, Invitation to the Dance 1956, Island in the Sun 1956, Indiscreet 1958, Lawrence of Arabia (Acad. Award) 1962, The Seventh Dawn 1964, Dr. Zhivago (Acad. Award) 1965, Rotten to the Core 1965, Lord Jim 1965, The Deadly Affair 1967, You Only Live Twice 1967, Battle of Britain 1969, Ryan's Daughter (Acad. Award) 1970, Nicholas and Alexandra 1971, Blue Bird (U.S.S.R.). *Publication:* The Work of the Motion Picture Cameraman 1972. *Leisure interests:* gardening, painting. *Address:* 3 Roehampton Close, London, SW15 5LU, England. *Telephone:* 01-878 1802.

YOUNG, John Zachery, M.A., F.R.S.; British zoologist; b. 18 March 1907, Bristol; s. of Philip and Constance M. Lloyd; one s. two d.; ed. Marlborough Coll. and Magdalen Coll., Oxford; Fellow, Magdalen Coll., Oxford 1931-45, Hon. Fellow 1976; Univ. Demonstrator in Zoology and Comparative Anatomy, Oxford 1933-45; Prof. of Anatomy, Univ. Coll., London 1945-74, Emer. 1974; Rockefeller Fellow 1936; BBC Reith Lecturer 1950; Chair. Zoology Section, British Assen. for Advancement of Science 1957; Foreign Hon. mem. American Acad. of Arts and Sciences 1957, Philosophical Soc.; Hon. Fellow Acad. Lincei; Hon. D.Sc. (Bristol 1956, McGill 1966, Bath 1974), LL.D. (Glasgow 1974, Duke Univ.); Royal Medal, Royal Soc. 1967. *Publications:* The Life of Vertebrates 1950, Doubt and Certainty in Science 1951, The Life of Mammals 1957, A Model of the Brain 1964, The Memory System of the Brain 1966, Introduction to the Study of Man 1971, The Anatomy of the Nervous System of Octopus Vulgaris 1971, Programs of the Brain 1978. *Leisure interests:* work and walking. *Address:* 166 Camden Road, London, N.W.1., England. *Telephone:* 01-485 0498.

YOUNG, Kenneth (*see* Young, C. K.)

YOUNG, Milton R.; American politician; b. 6 Dec. 1897, Berlin, N. Dakota; s. of John Young and Rachel Zimmerman Young; m. Patricia M. Byrne 1969; ed. La Moure High School, N. Dakota State Agric. Coll. and Graceland Coll., Lamoni, Iowa; farmer near Berlin, N. Dakota until 1945; first elected to public office 1924; mem. House of Reps., N. Dakota State Legislature 1932-34; mem. N. Dakota Senate 1934-45; U.S. Senator from N. Dakota 1945-; Republican. *Address:* U.S. Senate, Washington, D.C., U.S.A.

YOUNG, Wayland (see Kennet, 2nd Baron).

YOUNG, Wilford Roscoe, M.S., J.D.; American oil company executive; b. 19 July 1910, Rathdrum, Ida.; s. of Roscoe Ellsworth Young and Henrietta Anna Reiniger; m. Lillie Gallagher 1935; one s. (deceased), one d.; ed. Univ. of Ida., Columbia Univ. School of Business and Fordham Univ. Law School; joined Legal Dept., Texaco Inc. 1942, General Tax Counsel 1959, Vice-Pres. and Gen. Tax Counsel 1969-71, Vice-Pres. and Gen. Counsel with responsibility for Legal and Tax Depts., April-Oct. 1971, Senior Vice-Pres. and Gen. Counsel 1971-72, Dir., Exec. Vice-Pres. and Gen. Counsel 1972-74, Vice-Chair. of Board and Gen. Counsel 1974-76, Vice-Chair. of Board 1976-77 (retd.). *Address:* Gray Oaks Lane, Greenwich, Conn. 06830, U.S.A. (Home).

YOUNG OF DARTINGTON, Baron (Life Peer), cr. 1977, of Dartington in the County of Devon; **Michael Young,** PH.D.; British sociologist; b. 9 Aug. 1915, Manchester; ed. Dartington Hall School, London Univ. and Gray's Inn, London; Dir. of Political and Econ. Planning 1941-45; Sec. Research Dept., Labour Party 1945-51; Dir. Inst. of Community Studies 1953-; Chair. Consumers' Assen. 1956-65, Pres. 1965-; Chair. Advisory Centre for Educ. 1959-; Lecturer in Sociology, Cambridge Univ. 1961-63, Trustee, Dartington Hall 1942-; Chair. Social Science Research Council 1965-68, Chair. Nat. Suggestions Centre 1968-; Chair. Int. Extension Coll. 1970-; Dir. Mauritius Coll. of the Air 1972; Visiting Prof. Ahmadu Bello Univ., Nigeria 1974; Chair. Nat. Consumer Council 1975-77; Chair. Mutual

Aid Centre 1977-. *Publications:* Family and Kinship in East London (with Peter Willmott) 1957, The Rise of the Meritocracy 1959, Family and Class in a London Suburb (with Peter Willmott) 1961, Innovation and Research in Education 1965, Learning Begins at Home 1967, Forecasting and the Social Sciences 1968, The Symmetrical Family (with Peter Willmott) 1973, Poverty Report (Ed.) 1974. *Address:* 18 Victoria Park Square, London, E.2, England.

YOUNGER, Rt. Hon. George (Kenneth Hotson), P.C., T.D., D.L., M.P.; British politician; b. 22 Sept. 1931; s. of 3rd Viscount Younger of Leckie; m. Diana Rhona Tuck 1954, three s. one d.; ed. Winchester Coll., New Coll., Oxford; command in Argyll and Sutherland Highlanders 1950, served BAOR and Korea 1951, with 7th Bn. Argyll and Sutherland Highlanders, T.A. 1951-65; M.P. for Ayr 1964-; Parl. Under-Sec. of State for Devt., Scottish Office 1970-74; Minister of State for Defence 1974; Sec. of State for Scotland May 1979-; fmr. Dir. George Younger and Son Ltd., Maclachlans Ltd., J. G. Thomson and Co. Ltd.; Dir. Tennant Caledonian Breweries Ltd. 1977-79; fmr. Chair. Conservative Party in Scotland; Scottish Conservative Whip 1965-67. *Leisure interest:* golf. *Address:* House of Commons, Westminster, London, S.W.1; Easter Leckie, Gargunnock, Stirlingshire, Scotland.

YOURCENAR, Marguerite; American (naturalized) writer; b. 8 June 1903, Brussels, Belgium; d. of Michel de Crayencour and Fernande de Cartier de Marchienne; Foreign mem. Belgian Acad.; Hon. D.Litt. (Smith Coll.) 1961, (Bowdoin Coll.) 1968; Chevalier de la Légion d'honneur, Officier, Ordre de Léopold, Page One Award, New York Newspaper Guild 1954, Prix Combat 1963, and several other awards. *Publications:* Alexis ou le traité du vain combat 1929, La nouvelle Eurydice 1931, Pindare 1932, La Mort conduit l'Attelage 1934, Denier du rêve 1934, Feux 1936, Les songes et les sorts 1938, Nouvelles orientales 1938, Le coup de grâce 1939, Mémoires d'Hadrien 1951 (awarded Prix Fémina Vacaresco), Electre ou la chute des masques 1954, Les charités d'Alcippe 1956, Sous bénéfice d'inventaire 1962 (awarded Prix Combat), Le mystère d'Alceste 1963, L'Oeuvre au noir 1968 (awarded Prix Fémina), Théâtre I, II 1971, Entretiens radiophoniques 1972; trans. The Waves (Virginia Woolf) 1937, What Maisie Knew (Henry James) 1947, Fleuve profond, sombre rivière (Negro Spirituals) 1964, Poems (Constantine Cavafy) 1958, Hortense Flexner 1969. *Leisure interests:* conservation activities, cooking with natural foods, animal protection. *Address:* Petite Plaisance, Northeast Harbor, Maine 04662, U.S.A. *Telephone:* (202) 362-1096.

YOUSUFI, Mushtaq Ahmed, M.A., LL.B.; Pakistani banker and writer; b. Aug. 1922, Rajasthan; ed. Jaipur secondary school, Agra and Aligarh Univs.; joined Rajasthan Civil Service; selected for Indian Admin. Service; migrated to Pakistan; joined Muslim Commercial Bank, later Chief Accountant and Deputy Gen. Man.; joined Australasia Bank as Man. Dir. 1965-74; Pres. United Bank 1974-; Chair. Banking Council; Adamjee Prize for literature for Khakam Ba-dahan 1971. *Publications:* Chiragh Taley 1961, Khakam Ba-dahan, Zarguzashit (all in Urdu). *Address:* United Bank, State Life Building no. 1, 1.1 Chundrigar Road, Karachi, Pakistan.

YU CH'IU-LI; Chinese politician; b. 1914, Szechuan; Political Commissar of Detachment, 120th Div. 1934; Deputy Political Commissar Tsinghai Mil. District, People's Liberation Army 1949; Lieut.-Gen. PLA 1955; Dir. Finance Dept., PLA 1956-57; Political Commissar Gen. Logistics Dept., PLA 1957-58; Minister of Petroleum Industry 1958; Vice-Chair. State Planning Comm. 1965, Chair. 1972-; mem. 9th Cen. Cttee. of CCP 1969, 10th Cen. Cttee. 1973; Vice-Premier, State Council 1975-; mem. Politburo, 11th Cen. Cttee. CCP 1977. *Address:* People's Republic of China.

YU KUANG-MAO; Chinese army officer. Commdr. Anhwei Mil. District, PLA; mem. Standing Cttee. Anhwei CCP Cttee. *Address:* People's Republic of China.

YU KUO-HWA; Chinese banker; b. 1914; ed. Tsinghua Univ., Harvard Univ. Graduate School, London School of Econs.; Sec. to Pres. of Nat. Mil. Council 1936-44; Alt. Exec. Dir. Int. Bank for Reconstruction and Devt. 1947-50; Alt. Exec. Dir. IMF 1951-55; Pres. Cen. Trust of China 1955-61; Man. Dir. China Devt. Corpn. 1959-67; Chair. Board of Dirs. Bank of China 1961-67, China Insurance Co. Ltd. 1961-67; Alt. Gov. IBRD 1964-67, Gov. for Repub. of China 1967-69; Minister of Finance 1967-69; Gov. Cen. Bank of China 1969-; Minister without Portfolio 1969-; Gov. IMF 1969-, Asian Devt. Bank 1969-; Chair. Council for Econ. Planning and Devt. 1977-; Hon. Dr. (St. John's Univ., Jamaica, New York Univ.). *Address:* Central Bank of China, Paoching Road, Taipei, Taiwan.

YU TAI-CHUNG; Chinese party official; Commdr. People's Liberation Army Unit 6410, Kiangsu 1968; Alt. mem. 9th Cen. Cttee. of CCP 1969; Chair. Inner Mongolia Revolutionary Cttee. 1970; First Sec. CCP Inner Mongolia 1971-78; mem. 10th Cen. Cttee. of CCP 1973; Commdr. Inner Mongolia Mil. District; mem. 11th Cen. Cttee. CCP 1977; Deputy Commdr. Peking PLA Mil. Units 1978-. *Address:* People's Republic of China.

YUKAWA, Hideki, D.SC.; Japanese physicist; b. 23 Jan. 1907, Tokyo; s. of Takuji and Koyuki Ogawa; m. Sumi Yukawa 1932; two s.; ed. Kyoto Univ.; Lecturer, Kyoto Univ. 1932, Prof. of Physics 1939-70 (on leave of absence 1948-52), Dir. Research Inst. for Fundamental Physics 1953-70; Lecturer, Osaka Univ. 1933, Asst. Prof. 1936; Visiting Prof., Inst. for Advanced Study, Princeton 1948-49; Prof. of Physics, Columbia Univ., New York 1951; Emer. Prof. (Osaka and Kyoto Univs.); mem. Japan Acad. 1946, Pontificia Acad. Scientiarum; Hon. mem. Royal Soc. of Edinburgh, Indian Acad. of Sciences, Accad. Nazionale dei Lincei, U.S.S.R. Acad. of Sciences; Foreign mem. Royal Soc., London; Foreign Assoc., Nat. Acad. of Sciences, U.S.A. 1949; Hon. Dr. (Paris and Moscow); Imperial Prize, Japan Acad. 1940, Nobel Prize for Physics for work concerning the meson 1949; Order of Decoration of Japan 1943; Hon. Citizen of Kyoto. *Leisure interests:* literature, history. *Address:* 6 Izumikawa-cho, Shimogamo, Sakyoku, Kyoto, Japan. *Telephone:* (075) 721-2468.

YUKAWA, Morio, G.C.V.O.; Japanese court official and fmr. diplomatist; b. 23 Feb. 1908, Morioka City; m. Teiko Kohiyama; two s.; ed. Tokyo Univ.; entered Foreign Service 1933; served U.K., Geneva; Dir. Trade Bureau Econ. Stabilization Board, Cabinet 1950-51; Dir. Gen. Econ. Affairs Bureau, Foreign Office 1951-52; Minister Counsellor to France 1952-54; Dir. Gen. Int. Co-operation Bureau, Foreign Office 1954-55; Dir. Gen. Econ. Affairs Bureau, Foreign Office 1955-57; Amb. to Philippines 1957-61; Deputy Vice-Minister, Foreign Office 1961-63; Amb. to Belgium, Luxembourg and European Econ. Community 1963-68, to U.K. 1968-72; Grand Master of the Ceremonies, Imperial Household 1973-. *Leisure interests:* historical or biographical works, theatre, golf. *Address:* Hilltop 5-10 Sanbancho, Chiyoda-ku, Tokyo 102, Japan.

YUNICH, David Lawrence; American consumer companies consultant; b. 21 May 1917, Albany, N.Y.; s. of Max A. and Bessie (Feldman) Yunich; m. Beverly F. Blickman 1941; two s.; ed. Union Coll. and Harvard Graduate School of Business Administration; L. Bamberger and Co., Newark 1947-48, Pres. and Dir. 1955-62; Vice-Pres. Macy's, New York 1941-51, Senior Vice-Pres. 1951-62, Pres. 1962-71; Vice-Chair. Board R. H. Macy and Co. Inc. 1971-73, Dir. 1958-73 (retd.); Chair. Metropolitan Transportation Authority 1974-77; Dir. Prudential Insurance Co., N.Y. Telephone Co., U.S. Industries Inc., East River Savings Bank, Diners Club Inc., Harwood Mfg. Co. Inc., W. R. Grace and Co., J. Walter Thompson Co.; mem. N.Y. State Banking Board; Chair. of Board N.Y. Chamber of Commerce and Industry; Chair. Mayor's Council (New York) Econ. and Business Advisors; Dir. Educational Broadcasting Corpn., Nat. Jewish Hospital, Denver; Trustee Carnegie Hall Corpn., Albany Med. Coll., St. Vincent's Hospital, Rutgers Univ., Union Coll., Skidmore Coll.; Pres. Retail Dry Goods Assn.; Dir. Nat. Retail Merchants Assn., American Management Assn. *Address:* 1114 Avenue of the Americas, New York, N.Y. 10036 (Office); 26 Cooper Road, Scarsdale, N.Y. 10583, U.S.A. (Home). *Telephone:* 914-723-6509/3959.

YUSSOF, Dr. Mohammed; Afghan politician; b. 21 Jan. 1917, Kabul; one s. one d.; fmr. Minister of Mines and Industries; Prime Minister and Minister of Foreign Affairs 1963-65; Amb. to Fed. Repub. of Germany, also accred. to Denmark, Sweden and Switzerland 1966-73. *Address:* c/o Ministry of Foreign Affairs, Kabul, Afghanistan.

YUSUF BIN SHEIKH ABDUL R'AHMAN, Tan Sri Datuk Chik Mohamed, P.M.N., S.P.M.P., J.P., O.B.E.; Malaysian politician; b. 3 March 1907; ed. Anderson School, Ipoh, Malaysia, Newton Coll., Newton Abbot, Exeter Coll., Oxford Univ., Inner Temple, London; founder mem., Perak Malay League, elected Pres. 1947; founder mem., UMNO, Vice-Pres. 1948-50, Vice-Pres., UMNO, Malaya 1951-54; mem. Perak State Council 1948-54, Fed. Legislative Council 1948-54; Speaker, House of Reps., Malaysia 1964-; mem. several cttees. of civil orgs. and dir. numerous cos.; Dato Bendahara Perak 1959; Pemangku Mahkota Negara 1971. *Address:* Parliament House, Lake Gardens, Kuala Lumpur No. 1, Jalan Clifford, Kuala Lumpur, Malaysia (Home).

YVON, Jacques; French physicist; b. 26 April 1903, Angoulême; Prof. Faculty of Science, Strasbourg 1938-43, 1946-49; held various posts with the French Atomic Energy Commissariat 1949-62, scientific adviser 1962-70; Prof. of theoretical physics, Sorbonne, Paris 1962-; High Commr. for Atomic Energy 1970-75. *Address:* c/o Commissariat à l'Energie Atomique, 31-33 rue de la Fédération, Paris 15e, France.

Z

ZABABAKHIN, Yevgeniy Ivanovich, D.S.C.; Soviet physicist; b. 16 Jan. 1917, Moscow; ed. Zhukovsky Military Air Force Engineering Acad.; Teacher, Prof., Zhukovsky Military Air Force Engineering Acad. 1944; mem. CPSU 1949; Corresp. mem., U.S.S.R. Acad. of Sciences 1958, mem. 1968-. *Address:* U.S.S.R. Academy of Sciences, 14 Lenin Prospect, Moscow, U.S.S.R.

ZACHARIAS, Jerrold Reinach, PH.D.; American physicist; b. 23 Jan. 1905; ed. Columbia Univ.; Teacher, Hunter Coll., New York 1931-40; with Radiation Lab., M.I.T. 1940-45, Prof. of Physics, M.I.T. 1946-66, Inst. Prof. 1966-70, Inst. Prof. Emer. 1970-; Dir. Nuclear Science Lab. 1946-56; Assoc. Dir. Project Lexington (nuclear-powered flight) 1948; Dir. Project Hartwell (undersea warfare) 1950; Assoc. Dir. Project Charles 1951, Project Lincoln 1951-52 (both air defence); Dir. Summer Study on Distant Early Warning Line 1952; Technical Dir. Project Lamp Light (continental defence) 1954; Chair. Physical Science Study Cttee. 1956; mem. Nat. Acad. of Sciences; main field of research: electric and magnetic shapes of atomic nuclei, one out-growth of which has been the invention of what is claimed to be the world's most precise atomic clock. *Address:* 32 Clifton Street, Belmont, Mass. 02178, U.S.A.

ZACHRISSON, Bertil, B.A.; Swedish politician; b. 2 May 1926, Gothenburg; s. of Josef Zachrisson and Emma Gustafsson; m. Birgit Lundquist 1950; two d.; Sec. Student Christian Movement 1950-53, Youth Movement of Congregational Church of Sweden 1953-55, Board of Educ. 1955-57; Teacher, Folk High School 1957-62; Editor Svensk Veckotidning 1962-73; mem. Riksdag 1969-; Minister of Educ. and Cultural Affairs 1973-76; Social Democrat. *Address:* c/o Utbildningsdepartementet, Fack, S-103 10 Stockholm 2, Sweden.

ZACHWATOWICZ, Jan, DR.TECH.SC.; Polish architect; b. 4 March 1900, Gatczyno; s. of Wincenty Zachwatowicz and Jadwiga Eggert; m. 1st Maria Chodźko 1929, 2nd Izabela Kunińska 1965; two d.; ed. Warsaw Technical Univ.; Asst. Warsaw Tech. Univ. 1926-30, Adjunct 1935-39, Prof. 1939-70, Prof. Emer. 1970-; Conservator-Gen. of Poland and Dir. Dept. of Conservation, Ministry of Culture and Art 1945-57; mem. fmr. Polish Acad. of Learning 1946, Polish Acad. of Sciences 1952-; Pres. Cttee. of Architecture and Town Planning, Polish Acad. of Sciences 1974-; conservation work includes uncovering and restoring fortified walls of Warsaw Old Town and plans for reconstruction of historical monuments in Warsaw and other cities; mem. Polish Architects Asscn. 1930-; Hon. mem. Royal Inst. of British Architects 1963, Académie d'Architecture, Paris 1967; State Prize (1st Class 1950), Prize of Minister of Culture and Art (1st Class 1971), Honorary Prize, Polish Architects Asscn. 1971; Medal of 30th Anniversary of People's Poland 1974; Commdr. Cross of Order of Polonia Restituta, Order of Banner of Labour (1st Class), Silver Medal, Académie d'Architecture 1974, European Prize for Protection of Historical Monuments 1975, and several other decorations and awards. *Publications:* Twierdza Zamość (The Fortress of Zomość) 1936, Dzieje architektury polskiej (History of Polish Architecture) 1952, 1954, Konserwacja zabytków (The Conservation of Monuments) 1956, 1965, Architektura Polska X i XI w. (Polish Architecture of X-XI Centuries) 1961, Architektura gotycka w Polsce (Polish Gothic Architecture) 1965, Architektura Polska (Polish Architecture) 1967, Współczesna architektura polska (Contemporary Polish Architecture) 1968, Katedra Gnieznieńska (Gniezno Cathedral) 1970, Architektura romańska w Polsce 1971, Royal Castle in Warsaw 1973. *Leisure interest:* music. *Address:* Aleja Róż 8m.7a 00-556 Warsaw, Poland. *Telephone:* 284885.

ZADOK, Haim J.; Israeli politician; b. 2 Oct. 1913, Poland; m. Esther Berger; two d.; ed. Warsaw Univ.; joined Labour Zionist Movt. 1930; emigrated to Palestine 1935; with Haganah and Jewish Settlement Police until 1948; with Israel Defence Forces in War of Independence 1948; Deputy Attorney-Gen. 1949-52; private law practice 1952-65, 1967-74; Lecturer in Commercial Law, Tel Aviv Law School 1953-61; mem. Knesset (Parl.) 1959-; Minister of Commerce and Industry 1965-66, of Justice 1974-77; Chair. Exec. Cttee. Hebrew Univ., Jerusalem 1969-74, Knesset Foreign Affairs and Defence Cttee. 1970-74; mem. Advisory Council, Bank of Israel 1963-74. *Address:* 31 Hamitnader Street, Afeka, Tel-Aviv, Israel.

ZAFRULLA KHAN, Sir Muhammad, K.C.S.I., B.A., LL.B.; Pakistani politician and diplomatist; b. 6 Feb. 1893; ed. Govt. Coll., Lahore, and King's Coll., London; Barrister-at-Law (Lincoln's Inn); Advocate, Sialkot, Punjab 1914-16; practised Lahore High Court 1916-35; mem. Punjab Legislative Council 1926-35; del. Indian Round Table Confs. 1930, 1931, 1932; del. Joint Select Cttee. of Parl. on Indian Reforms 1933; Pres. All-India Muslim League 1931; mem. Gov.-Gen.'s Exec. Council 1935-41; Leader Indian del. to Assembly of L.N. 1939; Agent-Gen. of Govt. of India in China 1942; Judge Fed. Court of India 1941-47; Constitutional Adviser to H.H. Ruler of Bhopal June-Dec.1947; Leader Pakistan del. to Annual Session of UN Gen. Assembly Sept.-Nov. 1947; Minister of Foreign Affairs and Commonwealth Relations, Govt. of Pakistan 1947; leader Pakistan del. to UN Security Council on India-Pakistan dispute 1948-54, and to sessions of UN Gen. Assembly 1947-54; Leader Pakistan del. to San Francisco Conf. on Japanese Peace Treaty 1951; Leader Pakistan del. to SEATO Conf. Manila 1954; Judge at the Int. Court of Justice, The Hague 1954-61, 1964-73, Vice-Pres. 1958-61, Pres. 1970-73; Perm. Rep. to UN 1961-64; Pres. 17th session UN Gen. Assembly 1962-63; Hon. Bencher Lincoln's Inn; Hon. Fellow L.S.E. *Publication:* Islam: Its Meaning for Modern Man 1962, The Quran (trans.) 1970. *Address:* 16 Gressenhall Road, London, S.W.18, England. *Telephone:* 01-874 6298.

ZAGARI, Mario; Italian journalist and politician; b. 1913, Milan; during World War II helped reorganize Socialist Party of Proletarian Unity as mem. of admin. and exec. cttees.; elected to Constituent Assembly as rep. of Socialist Party of Proletarian Unity; mem. Chamber of Deputies rep. Socialist Democratic Party 1948; Sec., Social Democratic Party 1949; Man. Dir. Social Democrat newspaper La Giustizia; attended first European Parl. at Strasbourg; mem. Central Cttee., Socialist Party; Rome Councillor 1962; elected to Chamber of Deputies 1963, 1968 for constituency of Rome; Under-Sec. for Foreign Affairs, 2nd and 3rd Moro govts.; Minister of Foreign Trade 1970-71, of Justice 1973-74. *Address:* c/o Ministry of Justice, Rome, Italy.

ZAHEDI, Ardeshir, LL.B.; Iranian diplomatist; b. 16 Oct. 1928, Teheran; s. of Gen. Fazlollah and Khadijeh Zahedi; m. Princess Shahnaz Pahlavi 1957 (dissolved 1964); one d.; ed. in Teheran, American Univ. of Beirut and Utah State Univ., U.S.A.; Civil Adjutant to His Imperial Majesty the Shah of Iran 1954-; Amb. to U.S.A. 1959-61, to U.K. 1962-67; Minister of Foreign Affairs 1967-71; Amb. to U.S.A. 1973-79 and to Mexico 1973-76; Hon. LL.D. (Utah State 1960, Chungang Univ. of Seoul 1969, East Texas State 1973, Kent State 1974, St. Louis 1975); decorations from 24 countries including Taj with Grand Cordon First Class 1975.

ZAHIR, Abdul; Afghan politician; b. 3 May 1910, Lagham; ed. Habibia High School, Kabul and Columbia and Johns Hopkins Univs., U.S.A.; practised medicine in U.S.A. before returning to Kabul 1943; Chief Doctor, Municipal Hospital, Kabul 1943-50; Deputy Minister of Health 1950-55, Minister 1955-58; Amb. to Pakistan 1958-61; Chair. House of the People 1961-64, 1965-69; Deputy Prime Minister and Minister of Health 1964-65; Amb. to Italy 1969-71; Prime Minister 1971-72. *Address:* c/o Office of the Prime Minister, Kabul, Afghanistan.

ZAHIR SHAH (*see* Mohammed Zahir Shah).

ZAHN, Joachim, DR.JUR.; German business executive; b. 24 Jan. 1914, Wuppertal; s. of Hans Zahn; Man. board Deutsche Treuhandgesellschaft 1945-54, Aschaffenburger Zellstoffwerke 1955-58; Dir. Daimler-Benz AG 1958-, Spokesman, Board of Management 1965-71, Chair. 1971-; mem. supervisory boards of Daimler-Benz AG subsidiary and assoc. cos. Hanomag-Henschel Fahrzeugwerke GmbH, Motoren- und Turbinen-Union, Friedrichshafen and Munich, Mercedes-Benz of North America, Argentina, Australia, Canada, U.K. and assocs. in Brazil, France, Italy, Spain, South Africa, Switzerland and India; Dir. Fried. Krupp GmbH, Portland Zementwerke, Heidelberg, Frankfurter Versicherung AG, Frankfurter Hypothekenbank, Hannoversche Messe AG, Obermain Schuhfabrik AG; Hon. Vice-Pres. and Treas. Bundesverband der Deutschen Industrie; mem. Board Verband der Deutschen Automobilindustrie; Senator Max-Planck-Soc.; Chair. Baden-Württemberg Landeskuratorium des Stifterverbands für die deutsche Wissenschaft; Grand Cross of Merit, Fed. Repub. of Germany. *Address:* Daimler-Benz AG, Stuttgart-Untertürkheim, Federal Republic of Germany.

ZAHRADNIK, Jindřich, ING.; Czechoslovak politician; b. 4 July 1916, Česká Třebová; ed. Faculty of Engineering, Czech Technical Univ., Prague; Head of Dept., Czechoslovak Heavy Engineering Works 1950-51; Chief Engineer, Man. of Main Admin., Head of

Dept., Ministry of Heavy Eng. 1951-64; Dir., Industrial Automation Works 1964-65; Gen. Dir., Instruments and Automation Works 1965-70; Minister-Chair. Fed. Cttee. for Industry 1970; Deputy Premier of C.S.S.R. 1971-; Deputy to House of the People, Fed. Assembly 1971-; mem. State Comm. for Management and Organization 1965-68; mem. State Comm. for Tech. 1965-69; Chair. Govt. Comm. for Science and Tech. 1971, for Rationalization of Labour and Wage Systems 1971-, for Environment 1976-, for Devt. of Workers' Initiative 1976-; Chair. Czechoslovak section of Intergovernmental Czech-Mongolian Comm. for Econ. and Scientific Technological Co-operation 1974, Czech-Yugoslav Cttee. for Econ. and Scientific Technological Co-op. 1974, Czech-German Democratic Repub. Joint Cttee. for Econ. and Scientific Tech. Co-op. Nov. 1976-; mem. State Planning Comm. 1974-; Award of Merit in Construction 1966; Order of Labour 1971; Order of the Republic 1976. *Address:* Government Presidium, nábř. kapt. Jaroše, Prague 1, Czechoslovakia.

ZAID BIN SULTAN AL-NAHAYAN, H.H. Sheikh (see Nahayan, H.H. Sheikh Zaid bin Sultan al-).

ZAITON IBRAHIM, Tan Sri, B.A.; Malaysian diplomatist; b. 26 May 1921; s. of Ahmad Yeop and Che Bee; m. Zawiyah binti Ahmad 1954; one s. one d.; ed. High School, Klang, Malay Coll. Kuala Kangsar, Raffles Coll., Singapore, Univ. of Wales, Cardiff, London School of Econs., U.K.; Malayan Civil Service 1952, Foreign Service 1954-; Principal Asst. Sec., Ministry of External Affairs 1957, Deputy Perm. Sec. 1959-62; Amb. to the Philippines 1962-63; High Commr. in India and Ceylon, Amb. to Nepal 1964-67; Amb. to Japan 1967-68, to U.S.S.R. 1968-70; Sec.-Gen. Ministry of Foreign Affairs 1970-76; Perm. Rep. to UN 1976-; Chair. Malaysian del. to UN 1972; Panglima Setia Negara, Hon. K.C.M.G. *Leisure interests:* photography, hi-fi electronics, golf. *Address:* Permanent Mission of Malaysia to the United Nations, 666 Third Avenue, 30th Floor, New York, N.Y. 10019, U.S.A.

ZAJFRYD, Mieczysław, M.ECON.; Polish politician; b. 12 Nov. 1922, Brześć-on-the-Bug; ed. School of Planning and Statistics, Warsaw; employee, Polish Railways 1945-53; Deputy Dir. Dept. of Trade and Tariffs, Ministry of Railways 1953-56; Asst. Dir. of Rail Transport, Cen. Transport Board 1956-58, Dir.of Rail Transport 1958-65; Under-Sec. of State, Ministry of Transport 1965; Minister of Transport 1969-76, 1977-; Deputy Perm. Rep. to COMECON, Moscow, 1976-77, mem. Polish United Workers' Party, Deputy mem. Cen. Cttee. 1971-; Commdr.'s Cross with Star of Order Polonia Restituta, Order of Banner of Labour and others. *Address:* Ministerstwo Komunikacji, ul. Chałubińskiego 4/6, 00-928 Warsaw, Poland.

ZAKARIA, Haji Mohamed Ali; Malaysian diplomatist; b. 8 Oct. 1929, Kuala Lumpur; m. Razimah Zakaria 1957, one d.; ed. Univ. of Malaya, Singapore, and London School of Econs.; served in various capacities in Malayan Civil Service; entered foreign service 1956; Second Sec., later Information Officer, London 1957-59; First Sec., later Counsellor, Perm. Mission of Malaya at UN 1959-65; Deputy Sec. (Gen. Affairs), Ministry of Foreign Affairs 1965-67; Deputy High Commr. to U.K. 1967-70; High Commr. to Canada 1970-75 and concurrently Perm. Rep. to UN 1970-75; Sec.-Gen. Ministry of Foreign Affairs 1976-. *Address:* c/o Ministry of Foreign Affairs, Kuala Lumpur, Malaysia.

ZAKYTHINOS, Dionysios; Greek historian and university professor; b. 1905, Lixouri (Ionian Islands); one s.; ed. Gymnasium of Lixouri, Univs. of Athens and Paris; Sec., Institut Néo-hellénique, Univ. of Paris 1931-32; Dir. Fondation Hellénique, Cité Universitaire de Paris 1932-35; Dir. State Gen. Archives 1937-46; Prof. of Byzantine History, Univ. of Athens 1939-70, Prof. Emer. 1970-; Minister of Press and Information April-Aug. 1945; Prof. of History of Civilisations, High School of Political Sciences, Athens 1951-57, Prof. of Modern Greek History 1957-65; Dir. of review L'Hellénisme Contemporain 1955-; Dir. Centre of Byzantine Researches 1960-; Gen. Sec. Asscn. Internationale des Etudes Byzantines 1961-71, Pres. 1971-; Rector High School of Political Sciences 1962-63; Pres. Asscn. Int. d'Etudes du Sud-Est Européen 1963-65; Minister attached to Prime Minister's Office Dec. 1963-Feb. 1964; Pres. Hellenic Cttee. for UNESCO 1974; Deputy of State of Greek Parl. 1974-; mem. Parl. Assembly of Council of Europe 1975-; mem. Acad. of Athens 1966-, Vice-Pres. 1973, Pres. 1974-75, Corresp. mem. Académie des Inscriptions et Belles Lettres, France 1968; Foreign mem. Accademia di Scienze, Lettere e Arti, Palermo 1967-, Serbian Acad. of Sciences and Arts, Belgrade 1971-; Corresp. mem. Real Academia de la Historia, Madrid 1973. *Publications include:* Le despotat grec de Morée, Vol I 1932, Vol. II 1953, Le chrysobulle d'Alexis III, empereur de Trébizonde, ■■ faveur des Vénitiens 1932, La Grèce et les Balkans 1947, Crise monétaire et crise économique à Byzance du XIIIe au XVe siècle 1948 (all in French), The Slavs in Greece: Contributions in the History of Medieval Hellenism (in Greek) 1945, Byzantium: State and Society, Historical Survey (in Greek) 1951, The Capture of Constantinople and the Turkish Domination (Greek and French) 1954, Turkish Domination: ■■ Introduction to Modern History of Hellenism (in Greek) 1957, Byzantine Texts (in Greek) 1957, The Political History of Modern Greece (in Greek) 1962, Byzantine Greece 392-1204 (in Greek) 1965, The Byzantine Empire 324-1071 (in Greek) 1969, Byzantine History 324-1071 (in Greek) 1972, Byzance: Etat, société, économie 1973, From Byzantium to Independence 1976; Editor Symmeikta (Vols. I and II) 1966, 1970. *Leisure interests:* literature, photography. *Address:* 31 G. Sissini Str., Athens 612, Greece. *Telephone:* 718 787.

ZALDIVAR LARRAIN, Andrés; Chilean politician; b. 18 March 1936, Santiago; s. of Alberto Zaldívar Errázuriz and Josefina Larraín Tejada; m. Inés Hurtado Ruiz-Tagle 1959; four d.; ed. Inst. Alonso de Ercilla de los Hermanos Maristas and Univ. de Chile; Sec. to Ministers of Supreme Court 1956-59; Lawyer-Sec. to Municipality of Colina 1959-63; also practised in company law and taxation; Under-Sec. of Finance 1964-68; Minister of Economy, Devt. and Reconstruction Jan.-May 1968, also Minister of Finance 1968-70; Gov. of Inter-American Devt. Bank for Chile 1969-; Pres. Sociedad Celulosa Aranco 1971-; Senator for Atacama and Coquimbo Provs. 1973; Pres. Partido Demócrata-Cristiano de Chile 1977; decorated by King Olaf, Norway 1967; numerous missions to other American countries. *Address:* Huérfanos 1022, Oficina 1107, Santiago, Chile. *Telephone:* 63593.

ZALZALA, Abdul Hassan, PH.D.; Iraqi banker and diplomatist; b. 1926; ed. Coll. of Law, Univ. of Baghdad and Indiana Univ., U.S.A.; fmr. Deputy Gov. Cen. Bank of Iraq; Amb. to Iran; Minister of Industry June 1964, of Planning Nov. 1964; Acting Minister of Finance 1965; Amb. to Austria 1965-66, to Egypt 1966; Gov. Cen. Bank of Iraq 1969-73; ■■■ Cttee. of Twenty, IMF; Amb. to Canada 1974-76. *Address:* c/o Ministry of Foreign Affairs, Baghdad, Iraq.

ZAMECNIK, Paul Charles, M.D.; American physician; b. 22 Nov. 1912, Cleveland, Ohio; s. of John Zamecnik and Mary McCarthy; m. Mary Connor 1936; one s. two d.; ed. Dartmouth Coll. and Harvard Medical School. Resident, Huntington Memorial Hospital, Boston, Mass. 1936-37; Intern, Univ. Hospitals, Cleveland, Ohio 1938-39; Moseley Travelling Fellow of Harvard Univ. at Carlsberg Laboratories, Copenhagen 1939-40; Fellow Rockefeller Inst., New York 1941-42; Instructor to Prof. of Medicine, and Physician, Harvard Univ. at Mass. Gen. Hospital 1942-, Exec. Sec. of Cttee. on Research 1948-50, Chair. Cttee. on Research 1954-56; Chair. Exec. Cttee. of Depts. of Medicine, Harvard Medical School 1956-61, 1964-68; Collis P. Huntington Prof. of Oncologic Medicine, Harvard Medical School 1956-; Dir. John Collins Warren Laboratories of Harvard Univ. at Mass. Gen. Hospital 1956-; Pres. American Assen. for Cancer Research 1964-65; Jubilee Lecturer, Biochemical Soc., London 1962; Fogarty Scholar 1975, 1978; Fellow, American Acad. of Arts and Sciences; Foreign mem. Royal Danish Acad. of Sciences; mem. Nat. Acad. of Sciences; Hon. D.Sc. (Utrecht) 1966, (Columbia) 1971; John Collins Warren Triennial Prize 1946, 1950, James Ewing Award 1963, Borden Award in Medical Sciences 1965, Passano Award 1970. *Publications:* Historical and Current Aspects of the Problem of Protein Synthesis (Harvey Lectures Series 54) 1960, Unsettled Questions in the Field of Protein Synthesis (Bio-chemical Journal 85) 1962, The Mechanics of Protein Synthesis and its Possible Alterations in the Presence of Oncogenic RNA Viruses (Cancer Research 26) 1966. *Leisure interests:* skiing, tennis, pre-Columbian and ancient art. *Address:* Huntington Laboratories, Massachusetts General Hospital, Boston, Mass. 02114, U.S.A. *Telephone:* 617-726-3671.

ZAMYATIN, Leonid Mitrofanovich; Soviet diplomatist and journalist; b. 9 March 1922, Nizhni Devitsk, Voronezh Region; m. 1946; one d.; ed. Moscow Aviation Inst. and Higher Diplomatic School; mem. CP of Soviet Union 1944-; at Ministry of Foreign Affairs 1946-50; First Sec., Secr. of Minister of Foreign Affairs 1950-52; Asst. Head, Third European Dept., Ministry of Foreign Affairs 1952-53; First Sec., Counsellor on Political Questions of U.S.S.R. Mission to UN 1953-57; Soviet Deputy Rep. on Preparatory Cttee., and later on Board of Govs., Int. Atomic Energy Agency (IAEA) 1957-59, Soviet Rep. on IAEA 1959-60; Deputy Head, American Countries Dept., Ministry of Foreign Affairs 1960-62, Head of Press Dept. 1962-70, mem. of Collegium of Ministry 1962-70; Dir.-Gen. TASS News Agency 1970-78, Govt. Minister 1972-; Deputy to U.S.S.R. Supreme Soviet 1970-; Chief, Dept. of Int. Information, Cen. Cttee. CPSU 1978-; mem. Comm. for Foreign Relations, Soviet of Nationalities 1974-; Lenin Prize 1978; Orders and medals of U.S.S.R. *Address:* TASS, Tverskoy bulvar 10, Moscow, U.S.S.R. *Telephone:* 229-79-25.

ŻANDAROWSKI, Zdzisław, M.PH.; Polish politician; b. 23 Aug. 1929, Warsaw; ed. Univs. of Łódź and Warsaw; mem. of Fighting Youth Union (ZMW) 1948, of Polish Workers' Party (PPR) 1948, now of Polish United Workers' Party (PZPR); First Sec. of Univ. Cttee., PZPR 1954-56, Deputy Head and later Head of Propaganda Dept. of Warsaw Cttee. 1956-60, Sec. of Warsaw Cttee. 1960-69, mem. Cen. Cttee. 1968-, Deputy Head of Cen. Cttee. Org. Dept. and Editor-in-Chief Życie Partii 1969-70, Head of Org. Dept. 1970-77, mem. Secr. of Cen. Cttee. 1972-75, Sec. of Cen. Cttee. Dec. 1975-; mem. Seym; Chair. Seym Mandates-Statutory Comm.; Order of Banner of Labour (1st and 2nd Class), Knight's Cross, Order of Polonia Restituta. *Address:* Polska Zjednoczona Partia Robotnicza, ul. Nowy Świat 6, 00-497 Warsaw, Poland.

ZANUCK, Darryl Francis; American film producer; b. 5 Sept. 1902; fmrly. with Warner Bros. Pictures Inc., writer, producer and supervisor; Pres. in charge of production Darryl F. Zanuck Productions Inc.; Pres. 20th Century Fox 1962-71, Chair. Emer. 1971-; Commdr. Légion d'honneur, Ordre des Arts et des Lettres, Order of Merit of Italian Repub. *Films include:* Lloyds of London 1937, Young Mr. Lincoln 1939, Drums Along the Mohawk 1940, The Grapes of Wrath 1940, The Mark of Zorro 1940, Tobacco Road 1941, Western Union 1941, Blood and Sand 1941, How Green Was my Valley 1942, Winged Victory 1944, The Razor's Edge 1946, Dragonwyck 1946, Gentleman's Agreement 1948, Pinky 1949, All About Eve 1950, No Way Out 1950, Twelve O'Clock High 1951, People Will Talk 1951, The Snows of Kilamanjaro 1952, Viva Zapata 1952, Island in the Sun 1957, The Sun Also Rises 1957, The Roots of Heaven 1958, Crack in the Mirror 1960, The Longest Day (also co-dir.) 1962, The Chapman Report 1963. *Address:* c/o 20th Century-Fox Film Corporation, Beverly Hills, California, U.S.A.

ZANUSO, Marco; Italian architect; b. 14 May 1916; ed. Politecnico de Milano; architectural practice 1945-; mem. C.I.A.M. 1956-, Istituto Naz. Urbanistica 1956-; Dir. Inst. of Technology and Faculty of Architecture, Milan Polytechnic 1970; Visiting Prof. of Industrial Design 1976; City Councillor, Milan 1956-60; mem. Building Comm., Milan Corpn. 1961-63, 1967-69; mem. City Devt. Comm., Milan 1969; Lecturer, Faculty of Architecture, Milan Polytechnic; Pres. Assen. for Industrial Design 1966-; numerous gold medals; Int. Plastic Exhbn. Prize, London 1966; Gold Medal, Ministry of Industry and Commerce 1966, etc. *Buildings include:* H.Q. for American Co. 1948; Olivetti buildings, Buenos Aires 1954; Olivetti buildings, São Paulo 1965; Brinnel buildings, Casella d'Asolo 1966; Int. H.Q., S.G.S. Fairchild, Agrate 1967; Olivetti buildings, Scarmagno (Ivrea) 1968; Olivetti factories, Crema and Marcianise 1971; regional H.Q. for Edgars Stores Ltd., Johannesburg 1972; Conference Centre, Grado 1974-75. *Address:* Via Laveno 6, Milan (Office); Piazza Castello 20, Milan, Italy (Home). *Telephone:* 4040312, 4040322 (Office); 866127 (Home).

ZANUSSI, Krzysztof; Polish film director and scriptwriter; b. 17 June 1939, Jerzy, Warsaw; s. of Jerzy and Jadwiga Zanussi; ed. Warsaw and Cracow Univs. and Łódź Higher Film School; Vice-Chair., Polish Film Assen. 1971-; has directed numerous short feature films and taken prizes for Death of Provincial 1967 at the festival of Venice, Mannheim and Valladolid; Prize of Ministry of Culture and Art 1971; Prizes for Illumination, Locarno and Koszalin Film Festivals 1973; films include: Structure of Crystals, Family Life, Illumination 1972, The Catamount Killing (U.S.A.) 1973, Bilans Kwartalny (OCIC Prize, West Berlin Int. Film Festival 1975) 1974, Camouflage 1977 (special prize, Teheran Int. Film Festival 1977, Grand Prix, Polish Film Festival 1977, Spiral 1978 (Prize of Journalists, V Polish Film Festival 1978, Cannes 1978, OCIC Prize); TV films: Face to Face 1967, Gdansk Lions, Credit 1968, Mountains at Dark 1970, Role (Fed. Repub. of Germany) 1971, Behind the Wall 1971, (Grand Prix, San Remo Int. Film Festival 1972), Hipotese (Fed. Repub. of Germany) 1972, Nacht Dienst (Fed. Repub. of Germany) 1975, Anatomiestunde (Fed. Repub. of Germany) 1977, Haus des Frauen (Fed. Repub. of Germany) 1978. *Publications:* Nowele Filmowe (short feature films) 1976, Scemarinsze Filmoise (film scripts) 1978. *Address:* Aleje Jerozolimskie 53/19, 00-697 Warsaw, Poland. *Telephone:* 28-07-80.

ZARB, Frank Gustav, M.B.A.; American government official; b. 17 Feb. 1935, New York; m. Patricia Koster 1957; one s. one d.; ed. Hofstra Univ.; Graduate trainee, Cities Service Oil Co. 1957-62; General Partner, Goodbody & Co. 1962-69; Exec. Vice-Pres., CBWL-Hayden Stone 1969-71; Asst. Sec., U.S. Dept. of Labor 1971-72; Exec. Vice-Pres. Hayden Stone 1972-73, 1977; Assoc. Dir. Exec. Office of the Pres., Office of Man. and Budget 1973-74; Administrator, Fed. Energy Admin. 1974-77; Asst. to the President for Energy Affairs 1976; Consultant Lazard Frères; Distinguished Scholar Award, Hofstra Univ. *Publication:* The Stockmarket Handbook 1969. *Address:* Hayden Stone, 767 Fifth Avenue, New York, N.Y. 10022, U.S.A.

ZARISKI, Oscar; American mathematician; b. 24 April 1899, Kobrin, Russia; s. of Bezalel and Chana Zariski; m. Yole Cagli 1924, one s. one d.; ed. Univ. of Kiev (Ukraine), and Univ. of Rome; Fellow Int. Educ. Board 1924-26; Johnston Scholar, Johns Hopkins Univ. 1927-29, Assoc. 1929-32, Assoc. Prof. 1932-37, Prof. of Math. 1937-45; Research Prof. of Math., Univ. of Ill. 1946-47; Prof. of Math. and Tutor in Dept. of Math., Harvard Univ. 1947-61, Dwight Parker Robinson Prof. 1961-69, Dwight Parker Robinson Prof. Emer. 1969-; fmr. Editor Transactions of the American Mathematical Society, American Journal of Mathematics, Illinois Journal of Mathematics; fmr. Co-operating Ed. of Annals of Mathematics; Pres. American Mathematical Soc. 1969-70; mem. Nat. Acad. of Sciences, American Acad. Arts and Sciences, American Philosphical Soc., Accad. Nazionale dei Lincei; Corresp. mem. Acad. Nacional de Ciencias Exactas, Físicas y Naturales de Lima, Acad. Brasileira de Ciencias; Hon. mem. of Sociedade de Matematica de São Paulo, London Mathematical Soc.; Hon. D.Sc., (Coll. of Holy Cross 1959, Brandeis Univ. 1965, Purdue Univ. 1973); Cole Prize in Algebra 1944, Nat. Medal of Science, Washington 1965. *Publications:* Algebraic Surfaces 1935, Some Results in the Arithmetic Theory of Algebraic Varieties 1938, The Reduction of the Singularities of an Algebraic Surface 1939, Local Uniformisation on Algebraic Varieties 1940, Foundations of a General Theory of Birational Correspondences 1943, Reduction of the Singularities of Algebraic Three-dimensional Varieties 1944, Theory and Application of Abstract Holomorphic Functions on an Algebraic Variety 1951, Complete Linear Systems on Normal Varieties and ∎ Generalisation of ∎ Lemma of Enriques-Severi 1952, The Problem of Minimal Models in the Theory of Algebraic Surfaces 1958, Commutative Algebra (2 vols.) (with P. Samuel) 1958, 1960, Studies in Equisingularity, 3 papers 1965, 1968, General Theory of Saturation and of Saturated Local Rings, 3 papers 1971, 1974, Foundations of a General Theory of Equisingularity on r-Dimensional Algebroid and Algebraic Varieties, of Embedding Dimension $r+1$ 1979. *Leisure interests:* sailing, bicycling, bridge. *Address:* 122 Sewall Avenue, Brookline, Mass. 02146, U.S.A. (Home).

ZARKHY, Aleksandr Grigoriyevich; Soviet film producer; b. 18 Feb. 1908, St. Petersburg (now Leningrad); ed. Leningrad Technicum of Dramatic Art; Asst. Producer 1928, Producer for Lenfilm 1929-49, for Byelorusfilm 1950-55, for Mosfilm 1957-; mem. CPSU 1948-; State Prize Winner 1941, 1946; Honoured Art Worker of Byelorussian S.S.R., People's Artist of R.S.F.S.R. 1965, of the U.S.S.R. 1969; Hero of Socialist Labour 1978. *Films include:* The Wind into the Face 1929, Hot Days 1933, The Deputy of the Baltic 1937, The Member of the Government 1939, His Name is Suhi Bator 1943, Malahov Kurgan 1944, In the Name of Life 1946, Nesterko 1953, The Height 1957, The People on the Bridge 1959, Hallo Life 1962, Anna Karenina 1968. *Address:* Mosfilm Studio, 1 Mosfilmovskaya ulitsa, Moscow, U.S.S.R.

ŽARKOVIĆ, Vidoje; Yugoslav (Montenegrin) politician; b. 10 June 1927, Nedajno; s. of Milovan Žarković and Ljubica Žarković-Dakić; m. Ljiljana Mihovilović; two d.; ed. Higher Mil. Naval Acad., Djuro Djaković Higher School of Politics, Faculty of Political Sciences; took part in war of liberation 1941-45, holding responsible positions; staff posts in the Army after the war; Sec. Cen. Cttee., League of Communists of Montenegro; Pres. Exec. Council of Montenegro, Assembly of Montenegro; mem. Presidium of League of Communists of Yugoslavia 1974-; mem. Presidency of Socialist Fed. Repub. of Yugoslavia 1974-; Vice-Pres. 1976-77; 1941 Partisan Memorial Medal and other higher orders of war and peacetime. *Leisure interests:* hunting and fishing. *Address:* Predsedništvo SFRJ, Belgrade (Office); Strumička 88c, Belgrade, Yugoslavia (Home). *Telephone:* 331-279 (Office); 415-330 (Home).

ZAVALA, Silvio, D. EN D.; Mexican historian; b. 1909, Mérida, Yucatán; s. of Arturo Zavala and Mercedes Vallado; m. Huguette Joris 1951; one s. three d.; ed. Univ. del Sudeste, Univ. Nacional Autónoma de México and Univ. Central de Madrid, Spain; Centre of Historical Studies, Madrid 1933-36; Sec. Nat. Museum of Mexico 1937-38; founder and dir. Revista de Historia de América (review of Pan-American Inst. of Geography and History) 1938-65; Pres. Historical Comm. of Pan-American Inst. of Geography and History 1946-65; mem. Colegio de México 1940; life mem. El Colegio Nacional 1947; Visiting Prof. Univ. de Puerto Rico 1945, Univ. de la Habana 1946; Prof. of History of Social Insts. of America, Univ. Nacional Autónoma de México; Visiting Prof. Mexico City Coll.; Prof. Smith Coll., Mexico; Dir. Nat. Museum of History, Chapultepec 1946-54; Chief, Section of Education, Science and Culture of UN 1947; Visiting Lecturer Harvard 1953, Visiting Prof. Washing-

ton (Seattle) and Ghent 1956; Perm. del. to UNESCO 1956-62, mem. Exec. Council 1960-66, Vice-Pres. 1962-64; Vice-Pres. Int. Council of Human Sciences and Philosophy 1959-65, Pres. 1965-71; Amb. to France 1966-75; Pres. Colegio de México 1963-66; mem. Exec. Council, Int. Cttee for Historical Sciences; mem. Nat. Acad. of History and Geography, Mexican Acad. of History; corresp. mem. numerous Acads. of History, etc.; hon. mem. Historical Asscn. England 1956, Royal Historical Soc., London 1957, American Historical Asscn., Washington, D.C. 1959; Prof. h.c. Colegio de San Nicolás, Morelia, Inst. of Latin American Studies Univ. of Texas; Hon. D.Litt. (Columbia Univ.) 1954, (Ghent Univ.) 1956, (Toulouse Univ.) 1965, (Montpellier Univ.) 1967; Nat. Literary Prize, History Div., Mexico 1969, History Prize, Académie du Monde Latin, Paris 1974. *Publications:* many works on the Spanish colonization of America, Latin American history, New World history. *Address:* c/o Secretaría de Relaciones Exteriores Avenida Ricardo Flores Magón 7, Tlatelolco, D.F., Mexico.

ZAVALA BAQUERIZO, Jorge Enrique; Ecuadorean lawyer and politician; b. 13 May 1922, Guayaquil; s. of Oswaldo Zavala Arbaiza and Ana C. Baquerizo Germán de Zavala; m. Carolina Egas Núñez de Zavala; four s.; ed. Univ. de Guayaquil; Public Prosecutor, 2nd Criminal Tribunal of Guayas 1947; Prof. of Law, Univ. de Guayaquil; Provincial Counsellor Guayas 1956-58; Vice-Deputy of Guayas 1958-60; Pres. Guayaquil Coll. of Lawyers (twice); Constitutional Vice-Pres. of Republic of Ecuador 1968-72; Pres. Acad. de Abogados de Guayaquil 1973-74, 1st National Congress of Lawyers 1960, National Comm. of Human Rights; Vice-Pres. various legal confs.; mem. Int. Lawyers' Comm., Int. Lawyers' Asscn., American Bar Asscn., American Judicature Soc., Int. Asscn. of Penal Law, Exec. Cttee. of World Habeas Corpus; Premio Código Civil 1940, Premio Código Penal 1944; Cotenta Prize for university work, Premio al Mérito Cientifico of Municipality of Guayaquil 1966. *Publication:* El Proceso Penal Ecuatoriano. *Address:* Aguirre No. 324 y Chile, Guayaquil, Ecuador. *Telephone:* 512517, 516925, 512433.

ZAWINUL, Josef; Austrian jazz musician; b. 7 July 1932, Vienna; s. of Josef and Maria Zawinul; m. Maxine Byars 1964; three s.; ed. Grammar School, Real Gymnasium, Vienna Conservatoire, studied piano under Prof. Valerie Zschörner in Vienna, under Raymond Lewental in New York; studied and played classical, folk and jazz music since early childhood; started ■ professional musician playing with leading Austrian bands and orchestras throughout Europe 1947-59; moved to U.S.A. 1959; pianist for Dinah Washington (blues singer) and Joe Williams 1959-61; joined Julian Cannonball Adderley's band, writing songs including Mercy, Mercy, Me, and playing in numerous recordings 1961-69; wrote and played on 5 albums of Miles Davis (*q.v.*) including album in electric jazz In ■ Silent Way, and Bitches Brew; teamed with Wayne Shorter to form own band "Weather Report", working as producer, main composer, and keyboard instrumentalist 1970; Grammy Awards for composition of Mercy, Mercy Me 1967, In ■ Silent Way 1967, Birdland (Best Instrumental Composition) 1977; "Weather Report" named No. 1 Jazz Band 1972-78, 5 of the 8 "Weather Report" albums named Jazz Albums of the Year (Downbeat Magazine), No. 1. Synthesizer Player 4 consecutive years, No. 1 Composer for Synthesizer, "Weather Report" No. 1 Group, (Jazz Forum). *Recordings include:* The Rise and Fall of the Third Stream, Zawinul 1969, Weather Report 1971, I Sing the Body Electric 1972, Sweetnighter 1973, Mysterious Traveller 1974, Tale Spinning 1975, Black Market 1976, Heavy Weather 1977. *Leisure interests:* boxing, soccer, swimming, philosophy. *Address:* Cavallo-Ruffalo, 9885 Charleville Boulevard, Beverley Hills, Calif. (Management); 1 Richland Place, Pasadena, Calif., U.S.A. (Home). *Telephone:* (213) 277-3111; (213) 681-7766.

ZAYED BIN SULTAN AL-NAHAYAN (*see* Nahayan, Zaid bin Sultan al-).

ZAYYAT, Mohamed Hassan El-, M.A., D.PHIL.; Egyptian diplomatist and politician; b. 14 Feb. 1915, Damietta; s. of Hassan El-Zayyat and Badia Abboud; m. Amina Taha Hussein 1948; one s. two d.; ed. Cairo and Oxford Univs.; Lecturer and Asst. Prof. Alexandria Univ. 1942-50; Cultural Attaché, Egyptian Embassy, Washington, D.C. 1950-54, First Sec. and Counsellor 1954; Chargé d'affaires, Egyptian Embassy, Teheran 1955-57, Minister del. of Egypt on UN Advisory Council for Somaliland 1957-60; Head of Dept. of Arab Affairs and Perm. del. of U.A.R. to Arab League 1960-62; Alt. Perm. Rep. of U.A.R. to UN 1962-64; Amb. to India, concurrently accred. to Nepal 1964-65; Under-Sec. of State for Foreign Affairs 1965-67; Deputy Minister, Chair. U.A.R. State Information Services and Govt. Spokesman 1967-69; Perm. Rep. of U.A.R. to UN 1969-71; mem. from Damietta Nat. Congress 1969-; Minister of State for Information Jan.-Sept. 1972; Minister of Foreign Affairs 1972-73; Adviser to the Pres. of the Repub. 1973-75; Visiting Prof., Alexandria Univ. 1977, Univ. of Calif., Los Angeles 1978; Rep. of Egypt to UN Trusteeship Council, Security Council, and Eighteen Nations Disarmament Cttee. in Geneva; decorations from Egypt, Iran, Somalia, Senegal, Poland, Mauritania, Italy, Brazil, Thailand, Chad, Belgium, Tunisia and Lebanon. *Leisure interests:* farming, gardening. *Address:* 7 Hassan Sabry Street, Zamalek, Cairo, Egypt. *Telephone:* 807096.

ZAYYEN, Dr. Yusuf (*see* Zeayen).

ZBINDEN, Hans, DR. PHIL.; Swiss writer, lecturer and university professor; b. 26 Aug. 1893, Berne; s. of the late Marcel Zbinden and Marie Daguet; m. 1st Marina Segantini 1936 (died 1954), 2nd Ida Bieler 1962; one d.; ed. Univs. of Berne and Zürich; studied in East and West Europe and U.S.A.; Lecture tours in U.S.A. and Europe; Guest Prof., Madison; mem. Swiss UNESCO Cttee. 1949-63; Prof. of Cultural Sociology, Univ. Bern 1951-64; Corresp. mem. Deutsche Akad. für Sprache und Dichtung and of Deutsche Gesellschaft für Soziologie; Sec. Goethe-Stiftung für Kinst und Wissenschaft, Zürich; Pres. Swiss Authors Asscn. 1953-67, Hon. Pres. 1967-; Hon. Pres. Int. Union der Bürgermeister für Deutsch-Französisch Verständigung 1970; Bundesverdienstkreuz (Bundesrepublik Deutschland). *Publications:* Die politischen Ideen des Vincenzo Gioberti 1919, Zur geistigen Lage Amerikas 1931, Technik und Geisteskultur 1933, Der Kampf um den Frieden 1934, Geist und Wirtschaft 1935, Die Moralkrise des Abendlandes 1941, Geistige Aufgaben unseres Landes 1942, Der Schriftsteller in unserer Zeit 1943, Albert Anker, Mensch und Werk 1944, Der Flüchtling und die Humanität 1945, Um Deutschlands Zukunft 1946, Von der inneren Freiheit 1948, Gefahren der modernen Demokratie 1948, Welt im Zwielicht (essays) 1951, Giovanni Segantini 1951, Jugend und Staat 1952, Das Spiel um den Spoel 1952, Vermassung und Demokratie 1953, Schulnot und Bildungskrise 1953, Vom Buchklima unserer Zeit 1953, Von der Axt zum Atomwerk (essays) 1954, Schulnöte der Gegenwart 1955, Über Not und Glück des Alters 1958, Der bedrohte Mensch 1959, Das freie Unternehmertum und die Wandlungen der Gesellschafts-Struktur 1960, Soziale Grundprobleme der Erholung, Fünftagewoche, Ferien und schöpferische Musse 1961, Jugend und Alter in der Gesellschaft von heute 1961, Albert Anker in neuer Sicht 1961, "Ich bin ein Schweizerknabe" 1962, Ohnmacht der Eliten? 1963, Humanismus der Wirtschaft 1963, Im Strom der Zeit 1964, Schweizer Literatur in europäischer Sicht 1964, Kulturprobleme der Wirtschaft 1966, Probleme des technischen Zeitalters in Sozialer und kultureller Sicht 1967, Freiheit und Sicherheit 1969, Polen Einst und Jetzt, Reisebilder der Jahre 1932/3 1939, 1965, 1969, Europa Wohin? Voraussetzungen einer lebensfähigen europäischen Völkergemeinschaft 1969, Der Mensch im Spannungsfeld der modernen Technik 1970, Die geistige Situation der Jugend Heute 1971; Editor Iris-Bücher der Kunst 1935-59; trans. Benjamin Constant Über die Gewalt 1942, 1948, 1963, A. de Tocqueville In der nordamerikanischen Wildnis 1954 and Über die Demokratie in Amerika Vol. I 1959, Vol. II 1962. *Leisure interests:* art, walking, travelling. *Address:* Alleeweg 13, 3006 Berne, Switzerland. *Telephone:* 031-44-3074.

ZEA AGUILAR, Leopoldo, PH.D.; Mexican university professor and writer; b. 30 June 1912, Mexico; s. of Leopoldo Zea and Luz Aguilar; m. Elena Prado Vertiz 1943; two s. four d.; Editor review Tierra Nueva 1940; Prof. Escuela Nacional Preparatoria 1942-47; Prof. Escuela Normal de Maestros 1944-45; Prof. Faculty of Philosophy and Letters, Univ. Nacional Autónoma de México 1944; mem. El Colegio de México 1940; Pres., Cttee. for the History of Ideas, Panamerican Inst. of Geography and History; Chief of Dept. of Univ. Studies, Sec. of Public Education 1953-54; research work, 1954-; mem. Société Européenne de Culture 1953-; Dir.-Gen. of Cultural Relations Foreign Office; Vice-Pres. Historical Comm. of Pan American Inst. of Geography and History 1961-; Dir. of Faculty of Philosophy and Letters 1966-70, Prof. Emer. 1971; Dir.-Gen. of Cultural Broadcasting 1970-; decorations from Italy, France, Peru and Yugoslavia. *Publications:* El Positivismo en México 1943, Apogeo y Decadencia del Positivismo en México 1944, Ensayos sobre Filosofía en la Historia 1948, Dos Etapas del Pensamiento en Hispanoamérica 1949, La Filosofía como Compromiso 1952, América como Conciencia 1952, Conciencia y posibilidad del Mexicano 1952, El Occidente y la Conciencia de México 1953, La Conciencia del Hombre en la Filosofía 1952, América en la conciencia de Europa 1955, La Filosofía en México 1955, Esquema para una Historia de las ideas en América 1956, Del Liberalismo ■ la Revolución en la Educación Mexicana 1956, América en la Historia 1957, La Cultura y el Hombre de nuestros Días 1959, Latinoamérica y el Mundo 1960, Ensayos sobre México y Latinoamérica 1960, Democracias y Dictaduras en Latinoamérica 1960, Amerique Latina e la Culture Occidentalie 1961, El Pensamiento Latino-americano 1963, Latinamérica en la Formación de nuestro tiempo 1965, Antología

de la Filosofía Americana Contemporánea 1968, Latin America and the World 1969, Dependencia y Liberación en la Cultura Latinoamericana 1974, Cultura y Filosofía en Latino-América 1976, Dialéctica de la Conciencia Americana 1976, Latinamérica Tercer Mundo 1977, Filosofía de la Historia Americana 1978. *Leisure interests:* music, art. *Address:* Ciudad Universitaria, Torre de Humanidades, México, D.F.; Prol. Amores 1874, Dep. 401, Col. del. Valle, México 12, D.F., Mexico (Home). *Telephone:* 5-34-93-93.

ZEA HERNÁNDEZ, Germán; Colombian lawyer, politician and diplomatist; b. 15 April 1905; ed. Colegio de Araújo and Univ. Libre, Bogotá; mem. Congress and Senate of Colombia at various times; Mayor of Bogatá 1938-41; Comptroller-Gen. of Colombia 1941; Gov. of Cundinamarca 1943-44; Minister of Justice 1960-62; Pres. Dirección Nacional Liberal 1960; Colombian Rep. at Int. Confs. and Chief of Perm. Colombian del. to UN 1962-65, Perm. Rep. to UN 1976-78; Minister of Foreign Affairs 1966-68; Prof. of Constitutional and Admin. Law, Univ. Libre, Bogotá, Pres. of Univ.; mem. Academia Colombiana de Jurisprudencia; decorations from Colombia, Venezuela, Brazil, Chile, Mexico, Panama and Bolivia. *Address:* c/o Ministry of Foreign Affairs, Bogotá, Columbia.

ZEAYEN, Dr. Yusuf; Syrian physician and politician; b. 1931; ed. Univ. of Damascus; Minister of Agrarian Reform 1963; mem. Presidential Council 1964-65; Prime Minister Sept.-Dec. 1965, 1966-68; Baath Party. *Address:* c/o Baath Party, Damascus, Syrian Arab Republic.

ZECH, Walther; German publisher; b. 12 Nov. 1918; ed. Düsseldorf Realgymnasium (Hindenburgschule); pupil in private bank of B. Simons & Co. (now Poensgen, Marx & Co.) Düsseldorf 1937-39; war service 1940-45, prisoner of war 1945-46; Dept. Man. Essen branch, "Die Welt" Verlags GmbH 1947-49; Editor Düsseldorfer Zeitschriftenverlag 1950-52; Editor and Man. Dir. VDI-Verlag GmbH, Düsseldorf 1952-62; now Editor and Man. Dir. Mainzer Verlagsanstalt und Druckerei, Wiesbadener Tagblatt-Verlag, GmbH, Verlags-und Verwaltungsgesellschaft mbH (Mainz), Rhein-Main-Verlagsgesellschaft mbH, Mainz and Wiesbaden Kurier Verlag und Druckerei GmbH, Wiesbaden; mem. Exec. of Soc. of Fed. German Newspaper Publishers, Bad Godesberg, Confed. of German Industries and Chamber of Commerce, Mainz; mem. Presidential Council of Zentralausschuss der Werbewirtschaft (ZAW); Hon. Pres. Fédération Internationale de la Presse Périodique (FIPP), London; mem. Supervisory Board Werbung im Südwestfunk, Baden-Baden, Deutsche Presse-Agentur, Hamburg; mem. of Board and Treas. Int. Gutenberg-Gesellschaft, Mainz; Adviser, Dresdner Bank A.G., Rhineland-Pfalz; Chair. Zigarettenfabrik Rhenania GmbH, Andernach; mem. Stifterverband für die Deutsche Wissenschaft, Landeskuratorium Rheinland-Pfalz, Kuratorium Deutsche Sporthilfe. *Address:* Grosse Bleiche 44-50, D-6500 Mainz, Federal Republic of Germany. *Telephone:* 06131-1441.

ZEFFIRELLI, Franco; Italian theatrical producer and designer; b. 12 Feb. 1923; ed. Liceo Artistico, Florence, and School of Agriculture, Florence; Designer Univ. Productions Florence; actor Morelli Stoppa Company; collaborated with Salvador Dali in sets for As You Like It 1948; sets for A Streetcar Named Desire, Troilus and Cressida 1949; set for Three Sisters 1951; producer and designer La Scala, Milan 1952; productions at Covent Garden, London 1959-61, 1964, 1966, 1973; The Old Vic, London 1960, Teatro dello Cometa, Rome 1960, Much Ado About Nothing, London and Paris 1965, Verga's La Lupe, Florence 1965; Dir., sets and costumes for Antony and Cleopatra (New York) 1966, Florence, Days of Destruction (TV) 1966; Dir. A Delicate Balance, The Promise 1967, Venti Zecchini d'Oro 1968, Due piú due non fa piú quattro 1969, Cavalleria Rusticana and Pagliacci (operas) 1970, Beethoven's Missa Solemnis (TV) 1970, Saturday, Sunday, Monday 1973, Jesus of Nazareth (TV) 1976, Filumena 1977; Dir. films The Taming of the Shrew 1966, Romeo and Juliet 1967, Brother Sun, Sister Moon 1973, The Champ 1979; Prix des Nations 1964. *Address:* Via due Macelli 31, Rome, Italy.

ZEHRFUSS, Bernard; French architect; b. 20 Oct. 1911, Angers; s. of Henri Zehrfuss and Jeanne Hottois; m. Simone Samama, 1950; one d., one step-d.; ed. Collège Stanislas; Head, Architecture and Town Planning Services, Tunisia 1943-48; mem. Conseil Nat. de la Construction 1950-53; Consulting Architect, Ministry of Construction, Chief Architect of Public Buildings and Nat. Palaces 1953-65; Gen. Inspector of Public Buildings and Nat. Palaces 1965-68. *Projects:* buildings in Tunisia, Algeria and in France including UNESCO Building, Paris, Palais du Centre National des Industries et des Techniques, Paris, Renault factory at Flins, Hôtel du Mont d'Arbois, Megève, Danish Embassy in Paris, Super-Montparnasse in Paris, Science Faculty in Tunis, Société Siemens in Paris, Société Jeumont-Schneider in Puteaux, Société Sandoz in Rueil-Malmaison, French Embassy in Warsaw, Musée Archéologique in Lyons, Société Spie-Batignolles in Puteaux. *Address:* 9 rue Arsène Houssaye, 75008 Paris (Office); 23 quai Anatole France, 75007 Paris, France (Home). *Telephone:* 924-33-89.

ZEIDLER, D. R., C.B.E.; Australian business executive; b. 18 March 1918, Melbourne; s. of O. W. Zeidler; m. June Broadhurst 1943; four d.; ed. Scotch Coll., Univ. Melbourne; with CSIRO 1941-51; joined ICI Australia Research Dept. 1952, Research Man. 1953-59, Devt. Man. 1959-62, Controller Dyes and Fabrics Group 1962-63, Dir. 1963-71, Man. Dir. 1971-, Deputy Chair. 1972-73; Chair. ICI Australia Ltd. May 1973-; Chair. Nobel (Australasia) Pty. Ltd., Dir. ICI N.Z. Ltd., Commercial Bank of Australia Ltd., BHP Co. Ltd.; mem. of the Board of various insts.; Fellow, Royal Australian Chemical Inst.; mem. Inst. of Chemical Engs. *Leisure interests:* skiing, tennis, sailing, fishing. *Address:* ICI Australia Ltd., ICI House, 1 Nicholson Street, Melbourne (Office); 2a Grange Avenue, Canterbury, Victoria 3126, Australia (Home).

ZEIDLER, Wolfgang Walther Heinrich, DR. JUR.; German judge; ed. Johanneum Hamburg, Univ. of Hamburg; Judge in Hamburg, courts for criminal, civil and admin. law 1953-64; delegated as Asst. to Fed. Constitutional Court, Karlsruhe 1955-58; Research Fellow, Harvard Univ. Law School, and int. legal studies, Cambridge, Mass., U.S.A. 1959-60; civil service appointments in Hamburg 1965-67; Assoc. Judge at Fed. Constitutional Court 1967; Pres. Fed. Supreme Admin. Tribunal, Berlin 1970; Vice-Pres. Fed. Constitutional Court and presiding judge of its second chamber 1975-. *Publications:* about 20 essays and articles in legal periodicals and similar publs. *Address:* Federal Constitutional Court, Schlossbezirk 3, 7500 Karlsruhe 1, Federal Republic of Germany. *Telephone:* (0721) 149 312.

ZEKIA, Mehmed; Cypriot judge; b. 1903; m.; five c.; ed. Univ. of Istanbul and Middle Temple, London; mem. Legislative Council of Cyprus 1930; mem. Advisory Council of Cyprus 1933; Chair. Cttee. on Turkish Affairs 1948; Advocate 1931-40; District Judge 1940; Pres. District Court 1947; Judge, Supreme Court 1952; Judge, High Court of Justice 1960; Judge, European Court of Human Rights 1961; Chief Justice of Cyprus 1964-66. *Address:* c/o The Supreme Court, Nicosia, Cyprus.

ZELADA DE ANDRES MORENO, Fermín; Spanish banker; b. 27 Nov. 1912, La Coruña; m. María del Carmen Jurado y Herrera; six s. three d.; ed. Univs. of Santiago de Compostela, Paris and Milan; Prof. Univ. of Santiago de Compostela, Int. Univ. of Santander; joined Banco Exterior de España as Head of Legal Advisory Office 1948, Gen. Sec. 1958, Chair. Banco Exterior de España 1977-; Chair. Banco Español en Alemania, Banco Español en Bruselas 1977-; Chair. Governing Comm. of EDICA (group of newspapers and new agencies incl. daily Ya and agency LOGOS); nominated mem. Senate 1977-. *Address:* Banco Exterior de España, Carrera San Jerónimo 36, Madrid; Hermanos Becquer 4, Madrid, Spain.

ZELBSTEIN, Uri; French (b. Lithuanian) scientist; b. 10 Jan. 1912, Vilnius; s. of Philippe Zelbstein and Fryda Milikowski; m. Paule Pougnet 1946; one s.; ed. Univ. of Bordeaux and of Paris; successively Head of Laboratory and Dir. Radio-Electronic Laboratories, fmr. Vitus Ests. 1933-39; Head, Electronic Dept., D.F. Factories 1940-46; Head of Electronic Research Dept., Nat. Soc. for Research and Construction of Aircraft Engines (S.N.E.C.M.A.) 1946-51; Technical Dir. and Dir.-Gen. Sexta Soc. 1951-58; Head of Physics and Electronics Laboratories, later Asst. to Pres. of Atomic Div., S.N.E.C.M.A. 1960-69; Asst. to Dir. Hispano-Suiza Div. of S.N.E.C.M.A. 1969-73, Scientific Counsellor 1974-; Fellow, Association des Ecrivains Scientifiques de France; mem. Accademia Teatina for Sciences (Italy), Accademia Tiberina (Italy), laureate Acad. Int. de Lutèce, Soc. des Ecrivains des Provinces Françaises, foundation Michel-Ange (Prix du Conte), Editorial Board Automatisme et Informatique Industriels and La Revue de l'Entreprise; Officer of the Order of Merit for Research and Invention, Chevalier de l'Ordre national du Mérite; mem. Unione della Legion d'Oro (Italy). *Publications:* Les bâtisseurs du progrès (Histoire des Inventions), Le monde étrange des énergies. *Leisure interests:* history and philosophy of science. *Address:* 1 Villa des Iris, 92220 Bagneux, France. *Telephone:* 1-2536933.

ZELDOVICH, Yakov Borisovich; Soviet physicist; b. 8 March 1914, Minsk; ed. Leningrad Univ.; Assoc. Inst. of Chemical Physics, U.S.S.R. Acad. of Sciences 1931-, Inst. of Applied Maths. 1964-; Corresp. mem. U.S.S.R. Acad. of Sciences 1946-58, mem. 1958-; Prof. Moscow Univ. 1966-; mem. Deutsche Akademie der Naturforscher, Leopoldina; Hon. D.Sc. (Sussex) 1976; State Prize (four), Hero of Socialist Labour (three), Lenin Prize, Order of Lenin (three). *Publications:* The Theory of Combustion and Detonation

by Gas 1944, Theory of Shock Waves and ■ Introduction to Gas Dynamics 1946, Development of the Anti-Particle Theory, Elementary Particle Charges and the Properties of Heavy Neutral Mesons 1956, Experimental Investigation of Spherical Gas Detonation 1956, Quasi-Stable States with ■ Strong Isotopic Spin in Light Nuclei, Spacing by Singular Potential in Turbulence Theory and in Pulse Representation 1960, The Existence of New Light Nuclei Isotopes and Equations for the Neutron State 1960, Higher Mathematics for Beginners 1960, 1963, 1965, Physics of Shock Waves and High Temperature Hydrodynamics 1964, Relativistic Astrophysics 1964, 1965, Survey of Modern Cosmology 1965, Elements of Applied Mathematics 1966, Theory of Shock Waves and High Temperature Hydrodynamic Phenomena 1967, The Theory of Gravity and the Evolution of Stars 1971 (co-author). *Address:* Institute of Applied Mathematics, Academy of Science of U.S.S.R., Moscow 125047, U.S.S.R.

ZELENKA, Jan, PH.D., C.SC.; Czechoslovak journalist and broadcasting executive; b. 5 Dec. 1923, Ústí nad Orlicí; m.; one s. three d.; ed. Charles Univ., Prague; Dir-Gen. Czechoslovak Television Aug. 1969-; Deputy to House of the People, Fed. Assembly 1971-; Chair. Admin. Council Int. Radio and TV Org. 1971-73; Gold Dove First Prize of Int. Leipzig TV Festival for TV Film Great Concert 1971; Order of 25th February 1948, 1949, Order of Labour 1968, 1973. *Publications:* articles in journals and theoretical works on journalism. *Address:* Československá televize, Prague 1, nám. Gorkého 29, Czechoslovakia.

ZELLERBACH, William Joseph; American forest products industry executive; b. 15 Sept. 1920, San Francisco; s. of Harold Lionel and Doris J. Zellerbach; m. Margery Haber 1946; three s. one d.; ed. Univ. of Pennsylvania; Crown Zellerbach Corpn. 1946-, Dir. 1960-, Sr. Vice-Pres. 1971-; Pres. Zellerbach Paper Co. 1961-; Dir. Lloyds Bank, Calif. 1963, Purex Corpn. 1973, Van Gelder Papier, Netherlands 1974; Trustee, Univ. of Pa. *Leisure interest:* golf. *Address:* 55 Hawthorne Street, San Francisco, Calif. 94120, U.S.A.

ZEMAN, Karel; Czechoslovak film director; b. 3 Nov. 1910, Ostroměř; Creator of numerous puppet and trick films; Deputy Chair. Preparatory Cttee. Union of Czech Dramatic Artists 1970-; Grand Prix for trick film An Invention of Destruction, Brussels Int. Exhbn. 1958; Honoured Artist of Czechoslovakia 1961, State Prize 1957, 1959, Czechoslovak Peace Prize 1959, Order of Labour 1968, Nat. Artist 1970, Order of February 1975, and other awards. *Films include:* Inspiration 1949, King Lávra 1950, The Treasure of Bird Island 1952, A Journey into Primeval Times (State Prize) 1954, Baron Münchhausen 1962, The Jester's Tale (prizes at San Francisco Film Festival), The Two Musketeers 1964, On the Comet (Venice Biennial medal) 1970, Tales of ■ Thousand and One Nights 1974, The Sorcerer's Apprentice 1977. *Address:* Film Studio/Kudlov, Gottwaldov, Czechoslovakia. *Telephone:* Gottwaldov 2301; Gottwaldov 3175 (Home).

ZERMATTEN, Maurice; Swiss writer; b. 22 Oct. 1910, Saint Martin; s. of Antoine Zermatten; m. Hélène Kaiser, 1941, two s. four d.; ed. Fribourg Univ.; Teacher of French literature; fmr. Pres. Société Suisse des écrivains; awarded Prix Fondation Schiller 1938, Prix Bodmer 1940, Prix d'honneur Schiller 1946, Grand Prix catholique de littérature, Paris 1959, Grand Prix Gottfried Keller 1960, French Acad. Prize 1961, Prix Monceau 1968, Grand Prix de l'Acad. Française pour le Rayonnement de la langue français, Prix Alpes et Jura. *Publications:* Le Cœur Inutile, Le Chemin difficile, Contes des Hauts-Pays du Rhône, Les Années valaisannes de Rilke, Les Chapelles Valaisannes, La Colère de Dieu, Le Sang des Morts, Christine, Le Pain Noir, L'Esprit des Tempêtes, Connaissance de Ramuz, Traversée d'un Paradis, Les Mains Pures, Isabelle de Chevron, La Montagne sans Etoiles, Le Lierre et le Figuier, La Fontaine d'Aréthuse, Un Lys de Savoie, Le Bouclier d'Or, Le Cancer des Solitudes, La Rose noire de Marignan, La Louve, Pays sans Chemin, Visages, Les Sèves d'Enfance, Une Soutane aux Orties, La Porte Blanche, Les dernières années de Rainer Maria Rilke, Pour prolonger l'Adieu, Un Amour à Grenchen-Nord, Personne ne lui ferma les yeux. *Address* Gravelone, Sion, Valais, Switzerland. *Telephone:* 027 22 20 84.

ZETTERLING, Mai Elisabeth; Swedish film director, actress and writer; b. 24 May 1925; m. David Hughes; ed. Royal Theatre School of Drama, Stockholm; Staff of National Theatre, Stockholm 1943-45; first prize Venice Film Festival (The War Game) 1963; under contract film director to Sandrews of Sweden. London stage appearances include: The Wild Duck and The Doll's House (Ibsen), Point of Departure and Restless Heart (Anouilh), The Seagull (Chekhov), Creditors (Strindberg): acted in films: Frenzy 1944, Frieda 1947, The Bad Lord Byron 1948, Quartet 1948, Knock on Wood 1954, A Prize of Gold 1955, Seven Waves Away 1956, Only Two Can Play 1962, The Main Attraction 1962, The Bay of St. Michael 1963; film dir. BBC Television Documentaries; Dir. and Co-writer films: The War Game 1963, Loving Couples 1965, Night Games 1966, Dr. Glas 1968, The Girls 1968, Flickorna 1968, Visions of Eight (co-dir.) 1973, Vincent the Dutchman, We Have Many Names 1975, The Moon Is a Green Cheese 1976, Stockholm (TV film, Canada), Greenland (TV film for BBC). *Publications:* The Cat's Tale (with David Hughes) 1965, Night Games (novel, also film), In the Shadow of the Sun (short stories) 1975, Bird of Passage (novel) 1976. *Address:* c/o Douglas Rae Management Ltd., 28 Charing Cross Road, London, W.1, England; Mas D'Aigues Vives, 30580 Belvezet, Par Lussan, France (Home).

ZEVI, Bruno; Italian architect; b. 22 Jan. 1918, Rome; s. of Guido Zevi and Ada Bondí; m. Tullia Calabi 1940; one s. one d.; ed. Graduate School of Design, Harvard Univ. and Faculty of Architecture, Univ. of Rome; left Italy for political reasons 1939-44; Editor Quaderni Italiani (anti-Fascist magazine smuggled into Italy from U.S.A.) 1941-43; Dir. technical magazines of U.S. Information Service in Italy 1944-46; co-founder Assen. for an Organic Architecture in Italy 1946; co-Editor Metron, an architectural magazine 1945-55; Prof. History of Modern Architecture, Univ. of Rome 1948-52, Prof. History of Architecture, Univ. of Venice 1948-63; Prof. History of Architecture, Univ. of Rome 1963-; Gen. Sec. Italian Town Planning Inst. 1952-68; Vice-Pres. Italian Inst. of Architecture; Editor L'architettura—cronache ■ storia 1955-; architectural critic of the weekly L'Espresso 1955-; Academician Venice Acad. of Art 1953, Accad. di San Luca, Rome 1960-; Hon. mem. Royal Inst. of British Architects; Hon. Fellow American Inst. of Architects. *Publications:* Towards an Organic Architecture 1945, Saper Vedere l'Architettura 1948 (Architecture as Space), Poetica dell'Architettura Neoplastica 1953, Architecture (in International Encyclopaedia of the Arts) 1958, Biagio Rossetti, architetto ferrarese—il primo urbanista moderno europeo 1960, Architectura in nuce 1960, Michelangelo architetto 1964, Erich Mendelsohn: opera completa 1970, Cronache d'architettura 1970-78, Saper vedere l'Urbanistica 1971, Spazi dell' architettura moderna 1973, Il linguaggio moderno dell' architettura (The Modern Language of Architecture) 1973, Architettura ■ Storiografia 1974, Storia dell' architettura moderna 1975. *Leisure interests:* tennis, swimming. *Address:* Via Nomentana 150, 00162-Rome, Italy. *Telephone:* 8380481.

ZHAVORONKOV, Nikolay Mikhailovich; Soviet chemist; b. 7 Aug. 1907, Streletskie Vyselki, Ryazan Region; ed. Moscow Inst. of Chemical Technology; Instructor Moscow Inst. of Chemical Tech. 1930-42, Prof. 1942-; Dir. Karpov Physiochemical Inst. 1944-48; Dir. Mendeleev Chemical Technological Inst. 1948-62; Dir. Inst. of General and Inorganic Chem., U.S.S.R. Acad. of Sciences 1962-; Corresp. mem. U.S.S.R. Acad. of Sciences 1953-62, mem. 1962-; mem. Presidium Acad. of Sciences of U.S.S.R., Academician Sec. Dept. of Physical Chem. and Tech. of Inorganic Compounds 1963-; mem. Communist Party 1939-; Hero of Socialist Labour 1969, State Prize 1950, Order of Lenin (twice), Mendeleev Prize 1950, Mendeleev Gold Medal 1969, and other decorations. *Publications:* Hydraulic Principles of the Scrubber Process and Heat Transfer in Scrubbers 1944, Nitrogen in Nature and Engineering 1951, Sources of Industrial Bonded Nitrogen 1951, Mass Transfer in the Pellicular Absorption Process 1951, Determining the Separation Factor of Boron Isotopes with Equilibrium Evaporation of BCl_3 1956, Chemical Industry and Research in the Soviet Union 1956, K. A. Timiryazev and the Nitrogen Problem 1956, Separating Stable Boron Isotopes 1960, Investigations of Pellicular Absorption Process with High Speed of Gas 1961, High Temperature Gas-Liquid Chromatography 1962, Investigation of Hydrogen Isotopic Exchange between Water and Thiolates 1962, Principal Directions in Development of Separation Methods of Stable Isotopes 1963, Phase Equilibria for Mixtures Acrilonitrile—Acetonitrile 1964. *Address:* Institute of General and Inorganic Chemistry of Academy of Sciences of U.S.S.R., Leninsky prospekt 31, Moscow, U.S.S.R.

ZHELUDEV, Ivan Stepanovich; Soviet scientist; b. 7 March 1921, Pskov Region; m.; three c.; ed. Moscow State Univ.; Senior Lecturer, Moscow State Univ. 1955-62, Prof. 1965; Head of Laboratory of Electrical Properties of Crystals, Inst. of Crystallography, U.S.S.R. Acad. of Sciences, Moscow 1961-66, 1971-75; Deputy Dir.-Gen. (Dept. of Tech. Operations), Int. Atomic Energy Agency, Vienna 1966-71, 1975-; Visiting Prof., Indian Inst. of Science, Bangalore 1962-63; U.S.S.R. State Aware for Science 1975. *Address:* U.S.S.R. Academy of Sciences, 14 Leninsky Prospekt, Moscow, U.S.S.R.

ZHIGALIN, Vladimir Fedorovich; Soviet engineer and politician; b. 3 March 1907; ed. Leningrad Mechanical Inst.; Leningrad

and Moscow factories 1931-40; Chief of Dept. People's Commissariat of Heavy Machine-Building 1940-45; Deputy People's Commissar, Deputy, later First Deputy Minister, of Heavy Machine-Building 1945-57; Deputy, later First Deputy Chair., Moscow City Econ. Council 1957-61, Chair. 1961-63, First Deputy Chair. U.S.S.R. Council of National Economy 1963-65; Minister of Heavy Power and Transport Engineering 1965-75, Minister of Heavy and Transport Eng. 1975-; Cand. mem. Cen. Cttee. of CPSU 1961-64, mem. Cen. Cttee. of CPSU 1964-; Deputy to U.S.S.R. Supreme Soviet 1962-; Order of Lenin (three), and several decorations. *Address:* Ministry of Heavy and Transport Engineering, Moscow, U.S.S.R.

ZHIVKOV, Todor; Bulgarian politician; b. 7 Sept. 1911; m. Mara Mallseva (deceased); one s. one d.; ed. Secondary Graphical School High School of Drawing and Engraving, Sofia; printing worker; joined Bulgarian Young Communist League 1928, Communist Party 1932; mem. Resistance against Nazis 1941-44; cand. mem., Cen. Cttee., Communist Party 1945, full mem. 1948; First Sec., Sofia City Cttee. 1948-49, cand. mem. Political Bureau and Sec. Cen. Cttee. 1950, mem. Political Bureau 1951, First Sec. Cen. Cttee. 1954-; deputy Nat. Assembly 1945-, of Presidium 1946-62; Prime Minister 1962-71; Chair. of State Council (Head of State) July 1971-. *Publications:* Rural Co-operation 1957, Report to Seventh Congress 1958, Developing the Economy 1959, UN General Assembly 1960, Agricultural Production 1961, The XXII Congress of the Communist Party of the Soviet Union and its Lessons for the Bulgarian Communist Party 1961 and works on the arts, science and culture. *Address:* Durzhaven Suvet, Sofia, Bulgaria.

ZHIVKOV, Zhivko; Bulgarian politician; b. 1915, Toshevtsi, Vidin; ed. Sofia Univ.; Young Communist League 1931-, Communist Party 1935-; imprisoned 1942-44; mem. Cen. Cttee., later Sec., Young Communist League; fmr. Deputy to Foreign Minister; Minister of Foreign Trade 1952-57, of Educ. and Culture 1958-59, Deputy Prime Minister 1959-62, First Deputy Chair. Council of Ministers 1962-71, Deputy Chair. 1971-76; Chair. Cttee. for Econ. Co-ordination 1969-; mem. Cen. Cttee. of Bulgarian Communist Party 1954-, mem. Political Bureau 1962-76; mem. State Council June 1976-; mem. Nat. Assembly. *Address:* Durzhaven Suvet, Sofia, Bulgaria.

ZHUKOV, Anatoliy Borisovich; Soviet biologist and forestry specialist; b. 6 Aug. 1901, Kharkov; ed. Kharkov Institute of Agriculture and Forestry; Forestry specialist, Trostjanets Experimental Forestry Station 1923-30; Dept. Chief, Central Experimental Forestry Station of Ukrainian Research Inst. of Forestry 1930-37; Asst. Dir. Mokhnatch Experimental Forestry Station 1937-38; Asst. Dir., Dir. Byelorussian Scientific Resarch Inst. of Forestry; Asst. Prof. Byelorussian Forestry-Technical Inst. 1938-42; Asst. Dir. U.S.S.R. Scientific Research Inst. of Forestry 1942-56; Dept. Chief, U.S.S.R. Acad. of Sciences Forestry Inst. 1956-58; Dir. U.S.S.R. Acad. of Sciences Siberian Dept. Inst. of Forestry and Wood 1958-; mem. U.S.S.R. Acad. of Sciences 1966; Merited Worker of Sciences and Engineering of R.S.F.S.R., Order of Lenin (twice), Red Banner of Labour. *Address:* Akademgorodok, Krasńojzsk 36, U.S.S.R.

ZHUKOV, Yevgeniy Mikhailovich; Soviet historian; b. 23 Oct. 1907, Warsaw; ed. Leningrad Oriental Inst.; Lecturer Leningrad, Oriental Inst. and Leningrad Univ. 1929-32; Research Worker Inst. of History, Moscow 1939-41; mem. CP 1941-; Head of Pacific Inst., U.S.S.R. Acad. of Sciences 1943-50; Head. of Dept., Acad. of Social Sciences 1946-76; Deputy Dir. Inst. of History, Moscow 1954-57; Academician, Sec. of Historical Dept., U.S.S.R. Acad. of Sciences 1955-71, 1975-, mem. Presidium 1958-71, 1975-; Dir. Inst. of Universal History 1968-; mem. U.S.S.R. Acad. of Sciences 1958-; Pres. Nat. Cttee. of Soviet Historians; Order of Lenin and other decorations. *Publications:* Outlines of Oriental History in the Period of Imperialism 1934, History of Japan 1939, Outlines of History of Japanese Liberalism 1944, International Relations in the Far East 1956, New History of Eastern Countries: Outlines of Modern History of Japan 1957, On Dividing World History into Periods 1960, Meaning of Progress in World History 1961, Problems of the Meiji Revolution 1968, Driving Forces of the National-Liberation Revolutions 1970, The Non-Capitalist Road to Development and the Experience of the Mongolian People's Republic 1971, Militarism in Japan 1972, Problems of Post-War History 1975, Chief Editor World History, Vols. I-X 1955-64, Soviet Historical Encyclopaedia, Vols. I-XVI 1961-75. *Address:* Department of History of Academy of Sciences of U.S.S.R., ulitsa Dmitria Ulyanova 19, Moscow, U.S.S.R.

ZHURKOV, Serafim Nikolayevich, D.SC.; Soviet physicist; b. 16 May 1905, Trubitkino village, Tambov Region; ed. Voronezh State Univ.; Head of Laboratory, A. F. Ioffe Physico-Technical Inst., U.S.S.R. Acad. of Sciences 1930-; Prof. Leningrad State Univ. 1947-; mem. Exec. Cttee., Int. Congress on Durability of Solids; Chief Editor journal Solid Physics; Corresp. mem., U.S.S.R. Acad. of Sciences 1958, Academician 1968-; mem. CPSU 1944-. *Address:* A. F. Ioffe Physico-Technical Institute, Leningrad, U.S.S.R.

ZIA UL-HAQ, Gen. Mohammad; Pakistani army officer; b. 1924, Jullundar; ed. Command and Staff Coll., Quetta; active service in Burma, Malaya, Indonesia during World War II; commissioned 1945; 19 years in various instructional, staff and command appointments; attended two courses for staff officers in U.S.A. 1959, 1963; Lieut.-Col. 1964; Instructor, Command and Staff Coll., Quetta 1964; in command of ■ Cavalry Regt. 1966-68; Col. in command of an armoured div. 1968; Brig. in command of an armoured brigade 1969; Maj.-Gen. in command of an armoured div. 1972; Lieut-Gen. and ■ Corps Commdr. April 1975; Gen. and Chief of Army Staff March 1976-; led coup deposing Zulfiqar Ali Bhutto July 1977; Chief Martial Law Admin. July 1977-, numerous other portfolios; Pres. of Pakistan Sept. 1978-; Al-Kawkab Medal (Jordan), Al-Istiqlal Medal (Jordan) for services with the Jordanian army; Hon. LL.D. (Lahore) 1977. *Address:* Office of the President, Islamabad, Pakistan.

ZIAUR RAHMAN, Maj.-Gen.; Bangladesh Head of State; service in war against Pakistan 1971; Chief of Staff of Bangladesh armed forces 1975-78; Deputy Chief Martial Law Admin. after coup of Nov. 1975, Chief Martial Law Admin. 1976-77; Minister of Finance and Home Affairs 1975-78, of Commerce and Foreign Trade 1975-77, of Information and Broadcasting 1975-76; President of Bangladesh April 1977-, in charge of Presidential Secr., Minister of Defence, Cabinet Affairs, Science and Tech. June 1978-. *Address:* Office of the President, Dacca, Bangladesh.

ZIEGLER, Henri Alexandre Léonard; French aviation executive; b. 18 Nov. 1906, Limoges; s. of Charles Ziegler and Marguerite Mousnier-Buisson; m. Gillette Rizzi 1932; three s. one d.; ed. Collège Stanislas, Paris; Officer-pilot in air-force 1928; engineer, Corps aéronautique 1929; Deputy Dir. Centre d'essais en vol 1938; Col.-in-Chief Forces françaises de l'Intérieur (London) 1944; Dir.-Gen. Air France 1946-54; Dir. of Cabinet and J. Chaban-Delmas (Min. of Public Works, Transport and Tourism) 1954, and of Gen. Corniglion-Molinier (Min. of Public Works) 1955-56; Admin. Dir.-Gen. Soc. des Ateliers d'Aviation Louis Bréguet 1957-67; Admin. Soc. des Engins Matra, Soc. France-Couleur; fmr. Pres. and mem. of Council, Assen. Technique pour l'Energie Nucléaire (A.T.E.N.); fmr. Press. Forum Atomique Européen (FORATOM); Pres. Dir.-Gen. Soc. AIR-Alpes; Pres. Dir.-Gen. Sud-Aviation 1968-70; Pres. Dir.-Gen. Société Nationale Industrielle Aérospatiale (co. formed following merger of Sud-Aviation with Nord Aviation and Soc. d'Etudes et Réalisations d'Engins Ballistiques-SEREB) 1970-73, Hon. Pres. 1974-; Admin. Gérant Airbus Industrie 1974-75; Pres. Union Syndicale des Industries Aérospatiales 1971-73, Hon. Pres. 1974-; Grand Officier Légion d'honneur, Croix de guerre, Rosette de la Résistance, Legion of Merit, Hon. C.B.E., French and foreign decorations. *Leisure interest:* mountaineering. *Address:* 12 bis avenue Bosquet, 75007 Paris (Office); 55 boulevard Lannes, 75116 Paris, France (Home).

ZIELIŃSKI, Zbigniew, M.ECON.SC.; Polish politician; b. 12 May 1926, Żychlin, Kutno district; ed. Central Party School of Central Committee of Polish United Workers' Party, Warsaw, Higher School of Social Sciences, Warsaw; worked as metal-worker during Nazi occupation 1940-45; mem. co-operative "Radiator", Warsaw 1945-48, official with Tech. Agric. Service, Kutno 1948-49; activist in Party and youth orgs.; mem. Union of Fighting Youth (ZWM) 1945-48, mem. Polish Workers' Party (PPR) 1948, Polish United Workers' Party (PZPR) 1948-; Instructor and Head of Propaganda Dept., District Board of Polish Youth Union (ZMP), Kutno; Deputy Head, then Head, Dept. of Voivodship Board of ZMP, Łódź 1949-52; studied at Cen. Party School of PZPR Cen. Cttee. 1952-53; Deputy Head, then Head, Propaganda Dept., Warsaw Voivodship Cttee. PZPR 1953-59; studied at Higher School of Social Sciences, Warsaw 1959-62; First Sec. of PZPR District Cttee., Grodzisk Mazowiecki 1962-65; Deputy Chair. Voivodship Nat. Council, Warsaw 1965-67; Econ. Sec., then Organizational Sec., Warsaw Voivodship Cttee. PZPR 1967-71; Chair. Presidium, Voivodship Nat. Council, Warsaw 1971-73; First Sec., Voivodsip Cttee. PZPR, Łódź 1973-75; Head of Econ. Dept., then Head of Dept. of Heavy Industry, Transport and Bldg., Cen. Cttee. PZPR 1975-; mem. PZPR Cen. Cttee. Dec. 1975-, mem. Secr. of Cen. Cttee. April 1977-; Deputy to Seym (Parl.) March 1976-, Chair. Seym Comm. on Foreign Trade; decorations include Order of Banner of Labour (2nd Class), Officer's Cross of Order of Polonia Restituta. *Address:* Komitet Centralny Polskiej Zjednoczonej Partii Robotniczej, ul. Nowy Swiat 6, 00-497 Warsaw, Poland.

ZIĘTEK, Gen. Jerzy; Polish politician; b. 10 June 1901, Gliwice; m. Gertruda Zietek 1925; two s. two d.; participated in Silesian uprisings 1919-21; later worked in self-government; worked in Soviet military building, U.S.S.R.; joined Polish Army, Second-in-Command R. Traugutt Third Div. 1944; after the Liberation Vice-Voivoda of Silesia-Dabrowa Region, then Vice-Chair. of Presidium of Voivodship Peoples Council in Katowice 1945-63, Chair. 1964-73, Voivoda of Katowice Region 1973-75; mem. Polish Workers' Party (PPR) 1945-48, Polish United Workers' Party (PZPR) 1948-, PZPR Central Cttee. 1964-; mem. Home Nat. Council (K.R.N.) then mem. Seym 1947-; mem. Seym Cttee. for Building and Public Services; mem. Council of State 1963-; Vice-Chair. Supreme Council of Union of Fighters for Freedom and Democracy 1949-; Brig.-Gen. on retd. list 1971-; Knight, Officer and Commdr. with Star, Order of Polonia Restituta 1945, 1953, 1954; Order of Banner of Labour (1st Class) 1958; Order of the Builders of People's Poland 1964, and others. *Leisure interests:* rose growing, lawns. *Address:* Kancelaria Rady Państwa, ulica Wiejska 4/6/8, 00-489 Warsaw, Poland.

ZIJLSTRA, Jelle, DR. ECON.SC.; Netherlands university professor, politician and banker; b. 27 Aug. 1918, Barradeel; s. of A. J. Zijlstra and Pietje Postuma; m. Hetty Bloksma; two s. three d.; ed. Netherlands School of Economics; Asst. Netherlands School of Economics 1945-46, Lecturer 1947; Prof. of Economic Sciences, Free Univ. of Amsterdam 1948-52; Minister of Economic Affairs 1952-59, of Finance 1959-63; Prof. of Economic Sciences, Free Univ. of Amsterdam 1963-67; Pres. Board of Govs., European Investment Bank 1962-63; Prime Minister 1966-67; Pres. Netherlands Bank May 1967-; Pres. Bank for Int. Settlements and Chair. of Board of Dirs. June 1967-; Gov. Int. Monetary Fund, Washington 1967-; Anti-Revolutionary Party. *Publication:* The Velocity of Circulation of Money and its Significance for the Value of Money and Monetary Equilibrium 1948. *Leisure interests:* skiing, sailing, golf. *Address:* Bavoylaan 14, The Hague; De Nederlandsche Bank N.V., Westeinde 1, Amsterdam, Netherlands. *Telephone:* 263133 (Office).

ZIMAN, John Michael, F.R.S.; British physicist; b. 16 May 1925; m.; four c.; ed. Hamilton High School, New Zealand, Victoria Coll., Wellington, Balliol Coll., Oxford; Junior Lecturer in Mathematics, Oxford Univ. 1951-53, Pressed Steel Ltd. Research Fellow 1953-54; Lecturer in Physics, Cambridge Univ. 1954-64, Fellow of King's Coll. 1957-64, Editor Cambridge Review 1958-59, Tutor for Advanced Students, King's Coll. 1959-63; Prof. of Theoretical Physics, Univ. of Bristol 1964-, Melville Wills Prof. 1969-76; Henry Overton Wills Prof. and Dir. H. H. Wills Physics Lab. 1976-; Editor Science Progress; Hon. Editor Reports on Progress in Physics 1968-76; Gen. Editor Cambridge Monographs on Physics; Chair. Council for Science and Society; Rutherford Memorial Lecturer in India and Pakistan 1968. *Publications:* Electrons and Phonons 1960, Electrons in Metals 1963, Camford Observed (with Jasper Rose) 1964, Principles of the Theory of Solids 1965, Public Knowledge 1968, Elements of Advanced Quantum Theory 1969, The Force of Knowledge 1976, Models of Disorder 1978; numerous articles in scientific journals. *Address:* H.H. Wills Physics Laboratory, Tyndall Avenue, Bristol, Avon, BS8 1TL, England. *Telephone:* 24161.

ZIMBALIST, Efrem; American violinist and musical director; b. 9 April 1889; m. Mary Louise Curtis Zimbalist (died 1970); ed. Imperial School, St. Petersburg (pupil of Leopold Auer); début Berlin 1907; concert performances in principal cities of Europe and America; Dir. Curtis Inst. of Music, Philadelphia 1941-68; composer of works for orchestra, string quartet, violin sonata, and works for voice and piano. *Address:* 1816 Delancey Place, Philadelphia, Pa. 19103, U.S.A.

ZIMM, Bruno Hasbrouck, PH.D.; American research chemist and professor; b. 31 Oct. 1920, Woodstock, N.Y.; s. of Bruno L. Zimm and Louise Hasbrouck Zimm; m. Georgianna Grevatt 1944; two s.; ed. Columbia Univ.; teaching Asst. Columbia Univ., New York 1941-44; Civilian Staff mem., Atomic Energy Comm., New York, N.Y. 1942-43; with Office of Scientific Research and Devt. New York, N.Y.; Research Assoc. and Instructor Polytechnic Inst. of Brooklyn 1944-46; Instructor, Univ. of Calif. at Berkeley 1946-47, Asst. Prof. 1947-49, Assoc. Prof. 1950-52; Research Assoc., Gen. Electric Research Laboratory, Schenectady, N.Y. 1951-60; Prof. of Chemistry, Univ. of Calif. at San Diego 1960-; Visiting Lecturer in Chemistry Harvard Univ. 1950-51; Visiting Prof. Yale Univ. 1960-; Leo Hendrik Baekeland Award, N. Jersey Section of American Chemical Soc. 1957, Bingham Medal, Soc. of Rheology 1960, High Polymer Physics Prize, American Physical Soc. 1963. *Publications:* over 100 articles in scientific journals. *Leisure interests:* playing clarinet, tennis, sailing. *Address:* Department of Chemistry, University of California, San Diego, Box 109, La Jolla, Calif. 92037, U.S.A. *Telephone:* (714) 452-4416.

ZIMMERMAN, Charles J., B.S., M.B.A.; American insurance executive; b. 9 Jan. 1902; m. Opal Marie Smith 1942; ed. Dartmouth Coll., The Amos Tuck School of Business Admin.; Exec. Man. New York Life Underwriters' Assn. 1924-26; Gen. Agent, The Conn. Mutual Life Insurance Co. 1926-46; Man. Dir. Life Insurance Agency Management Assn. 1946-56; Pres. The Conn. Mutual Life Insurance Co. 1956-67, Chair. 1967-68, Chair. of Board 1968-72; Founder Univ. of Hartford 1957; Trustee, Dartmouth Coll. 1952-72 (Chair. 1970-72), Lawrence Acad., Nat. Conf. of Christians and Jews; Chair. American Coll. of Life Underwriters 1965-69, Life Trustee 1969-; S. S. Huebner Foundation for Insurance and Educ., Chair. 1968; Dir. Inst. of Living 1964-77 (Pres. 1968-72, Nat. Board of Govs. 1977-), Life Insurance Medical Research Fund (Chair. 1963-69), Nat. Assn. for Mental Health Inc., Conn. Bank and Trust Co., Connecticut Natural Gas Co., State Dime Savings Bank, Junior Achievement of Hartford Inc.; mem. Exec. Cttee. American Life Convention, Pres. Exec. Cttee. 1969-70; John Newton Russell Memorial Award 1951, Insurance Hall of Fame 1969. *Address:* 140 Garden Street, Hartford, Conn. 06115; 70 Mohawk Drive, West Hartford, Conn. 06117, U.S.A. *Telephone:* 203-549-4111 (Office); 204-232-15533 (Home).

ZIMYANIN, Mikhail Vasiliyevich; Soviet journalist and diplomatist; b. 21 Nov. 1914, Vitebsk, Byelorussia; ed. Mogilev Pedagogical Inst.; mem. CPSU 1939-; First Sec. Cen. Cttee., Komsomol Byelorussia 1940-46; Second Sec. Gomel Regional Cttee. CP of Byelorussia 1946; Minister of Educ., Byelorussia 1946-47; Sec., Second Sec. Cen. Cttee. CP Byelorussia 1947-53; Ministry of Foreign Affairs 1953-56, Far Eastern Dept. 1957-60, Amb. to Dem. Repub. of Viet-Nam 1956-57, to Czechoslovakia 1960-65; Deputy Minister for Foreign Affairs, U.S.S.R. 1965-; Editor of Pravda 1965-76; mem. Cen. Cttee. CPSU 1952-56, 1966-, Sec. 1976-; Head of Dept. of Agitation and Propaganda Cen. Cttee. 1978; mem. Cen. Auditing Comm. CPSU 1956-66; Vice-Chair. Council of Nationalities of USSR Supreme Soviet 1950-54; Deputy to U.S.S.R. Supreme Soviet 1946-54, 1966-; Order of Lenin (twice), Red Banner, Red Banner of Labour (twice), Sixty Years of Armed Forces of U.S.S.R. Medal. *Address:* c/o Central Committee of the CPSU, Moscow, U.S.S.R.

ZINDER, Norton David, PH.D.; American professor and neticigest; b. 7 Nov. 1928, New York, N.Y.; s. of Harry Zinder and Jean Gottesman Zinder; m. Marilyn Esteicher 1949; two s.; ed. Columbia Univ. and Univ. of Wisconsin, Wisconsin Alumni Fund Fellow, Univ. of Wis. 1948-50, Research Asst. 1950-56; Asst., Rockefeller Univ. (then Rockefeller Inst.) 1952-56, Assoc. 1956-58, Assoc. Prof. 1958-64, Prof. 1964-; Editor RNA Phages; mem. Nat. Acad. of Sciences, American Acad. of Arts and Sciences; Columbia Medal of Excellence, Eli Lilly Award, U.S. Steel Molecular Biology Award, John D. Rockefeller Jr. Prof. of Microbial Genetics. *Publications:* Infective Heredity in Bacteria, Cold Spring Harbor Symposium on Quantitative Biology XVIII 1953; and scientific articles in learned journals. *Address:* 450 East 63rd Street, New York City, N.Y. 10021, U.S.A. (Home). *Telephone:* 421-3777.

ZINNEMANN, Fred; American (b. Austrian) film director; b. 29 April 1907; s. of Dr. Oskar Zinnemann and Anna F. Zinnemann; m. Renée Bartlett 1936; one s.; ed. Universität Wien and School of Cinematography, Paris; studied techniques of camera, lighting and mechanics, Paris; went to U.S.A. 1929; directed documentaries and short films until 1941, major films 1941-; initiated, with others, school of neo-realism in American Cinema; several awards including 3 Academy Awards, 4 New York Film Critics Awards, 2 Directors' Guild of America Annual Awards; Golden Thistle Award, Edinburgh Film Festival 1965; Gold Medal, City of Vienna 1967; Hon. Award for A Man for All Seasons, Moscow Film Festival 1967, D. W. Griffith Award 1969; David di Donatello Award (Florence) 1978; Contributor to Encyclopedia Britannica (Film Directing); Hon. Fellow, British Acad. of Film and Television Arts (BAFTA) 1978. *Films include:* The Wave (short) 1935, Crime Does Not Pay (series of shorts) 1937-41, The Seventh Cross 1944, The Search 1948, Act of Violence 1949, The Men 1950, Teresa 1951, Benjy (Acad. Award Documentary) 1951, High Noon 1952, The Member of the Wedding 1953, From Here to Eternity (Acad. Award) 1953, Oklahoma! 1955, A Hatful of Rain 1957, The Nun's Story 1958, The Sundowners 1960, Behold ■ Pale Horse 1964, A Man for all Seasons (Acad. Award) 1966, The Day of the Jackal 1973, Julia 1977. *Leisure interests:* chamber music, mountain climbing. *Address:* 128 Mount Street, London, W.1, England. *Telephone:* 02-499 8810.

ZINOVIEV, Aleksandr Aleksandrovich; Soviet philosopher; b. 1922; fmrly. Prof. of Logic & Methodology of Science, Moscow Univ.; actively campaigned against and discredited in 1970s, expelled 1978; Research post at Univ. of Munich 1978. *Publications include:* Philosophical Problems of Many-Valued Logic (Russian

1960, English 1963); The Foundations of the Logical Theory of Scientific Knowledge 1967 (trans. Eng. 1973); An Essay on Many-Valued Logic 1968 (trans. German 1968); Complex Logic 1970 (trans. German Komplexe Logik 1970); Logical Physics 1972; Logische Sprachregeln (with A. N. Wessel); non-philosophic works: Ziyayushchiye vysoty (Gaping Heights) 1976; A Radiant Future 1978.

ZINSOU, Emile Derlin; Benin doctor and politician; b. 23 March 1918; ed. École Primaire Supérieure, Ecole Africaine de Médecine, Dakar and Faculté de Médecine, Paris; Represented Dahomey in French Nat. Assembly; fmr. Vice-Pres. Assemblée de l'Union française, Senator, Territorial Council; fmr. Minister of Economy and of The Plan; fmr. Amb. to France; Pres. Supreme Court of Dahomey; Minister of Foreign Affairs 1961-63, 1965-67; Pres. of Dahomey (now Benin) 1968-69; sentenced to death *in absentia* 1975; numerous decorations include Grand Croix Ordre Nat., Dahomey, Grand Officier Légion d'honneur. *Address:* Paris, France.

ZIPF, George G.; American business executive; b. 12 Oct. 1920, Johnstown, Pa.; s. of late Carl H. Zipf and of Florence G. Zipf; m. Susan S. Merriman 1944; one s. one d.; ed. Lehigh Univ.; joined Babcock & Wilcox as student engineer 1942, Gen. Supt. of Steel Plants 1959-63, Gen. Man. Tubular Div. 1963-64, Vice-Pres. 1964-66, Dir. 1964-, Exec. Vice-Pres. 1966-67, Pres. 1967-, Vice-Chair. J. Ray McDermott and Co. Ltd. 1978- (Babcock and Wilcox became wholly-owned subsidiary of J. Ray McDermott); Dir. The Continental Corpn., Continental Insurance Co., Manufacturers Hanover Trust Co., Babcock & Wilcox Canada Ltd., Kraft Inc., Mfrs. Hanover Corpn., Sperry and Hutchinson Co., American Iron and Steel Inst.; decorated by Italian Repub.; Distinguished Life mem., American Soc. for Metals; mem. Exec. Cttee. Machinery and Allied Products Inst.; Hon. Dr. Eng. (Lehigh) 1978. *Leisure interests:* photography, golf, music, gardening. *Address:* Babcock & Wilcox Co., 161 East 42nd Street, New York, N.Y. 10017 (Office); 1 Deer Trail, Armonk, N.Y. 10504, U.S.A. (Home). *Telephone:* 914-273-9347 (Home).

ZIV-AV, Itzhak; Israeli administrative official and journalist; b. 4 June 1907, Russia; s. of Abraham and Miriam Ziv-Av; m. Debora Kobrinsky 1934; two s.; ed. Inst. of Pedagogy, Smolensk; Farmer and Man. Local Council of Magdiel settlement, Israel 1926-; Man.-Editor Haboker (daily) 1935-48; Dir. Public Relations Div., Ministry of Defence and GHQ, Israel Defence Forces 1948-52; Dir.-Gen. Israel Farmers' Fed. 1952-75, Chair. Cen. Cttee. 1975-; Chair. Exec. Cttee., Co-ordinating Bureau, Israeli Econ. Orgs. 1967-; Editor Farmers of Israel monthly 1962-; mem. Board of Dirs. Jewish Nat. Fund; Chair. Board, Land Devt. Authority; mem. Council, State Land Authority, Exec. Board, Int. Fed. Agricultural Producers (IFAP) 1975-. *Publications:* The Unknown Land, I Seek My Brethren, The Price of Freedom, Forever Ours, From Frontier to Frontier, A World to Live in, Another World, and poetry for children. *Leisure interests:* reading, gardening, travel. *Address:* Israel Farmers' Federation, Kaplan Street 8, Tel-Aviv (Office); Ramat-Qan 52587, Sh'mueli Street 3, Israel (Home). *Telephone:* 03-25-22-27 (Office); 03-79-02-27 (Home).

ZOBELL, Claude E., M.S., PH.D.; American microbiologist; b. 22 Aug. 1904, Provo, Utah; s. of E. A. and Stella Davis ZoBell; m. Jean E. Switzer 1919; two s.; ed. Utah State Univ. and Univ. of California; Principal, Rigby (Idaho) Elementary School 1924-26; Instructor, Utah State Univ. 1928-29; Research Asst., Hooper Foundation 1929-30; Instructor, Scripps Inst. Oceanography, Univ. of Calif. 1932-36, Asst. Prof. 1938-42, Assoc. Prof. 1942-48, Prof. 1948-72, Emeritus Prof. 1972-; Chair. Div. of Marine Biology 1956-60; Research Assoc., Univ. of Wis. 1938-39; Special Fellow, Rockefeller Foundation, Europe 1948-49; Participant in Galathea Round-the-World Deep Sea Expedition; first to recover living organisms from greatest depths of the sea; Assoc. Founding mem. Surtsey (Iceland) Research Soc.; Editor-in-Chief Geomicrobiology Journal 1976-; Royal Danish Navy Galathea Medal 1952. *Publications:* Marine Microbiology 1946, 240 articles or papers dealing with researches on function of bacteria as geochemical agents and in origin of oil. *Leisure interests:* handicrafts, gardening. *Address:* Scripps Inst. of Oceanography, University of Calif., S.D. La Jolla, Calif. 92093 (Office); 2404 Ellentown Road, La Jolla, Calif. 92037, U.S.A. (Home). *Telephone:* (714) 452-2118 (Office); (714) 453-0190.

ZOITAKIS, Gen. George; Greek army officer; b. 1910; Nafpaktos, Aitolo-Akarnania; m. Sophia D. Vouranzeris 1949; one d.; ed. Cadet School, Higher War Coll. of Greece School of Nat. Defence, and American School of Special Arms, Germany; Infantry 2nd Lieut. 1932; 1st Lieut. 1935; Captain 1938; Major 1946; Lieut.-Col. 1949; Col. 1955; Brig. 1960; Maj.-Gen. 1963; Lieut.-Gen. 1965; Under Sec. of State for Nat. Defence April 1967; Regent of Greece 1967-72; Gen. 1970; arrested Feb 1975, charged with high treason and insurrection, sentenced to life imprisonment Aug. 1975; mem. Mixed Greco-Bulgarian Cttee. for settling frontier incidents, then Pres. of corresp. Greek-Yugoslav Cttee.; numerous medals. *Leisure interests:* walking, reading, theatre.

ZOLLINGER, Heinrich Fritz, PH.D., D.SC.; Swiss professor and university administrator; b. 29 Nov. 1919, Aarau; s. of Dr. Fritz Zollinger and Helene Prior; m. Heidi Frick 1948; three s.; ed. Fed. Inst. of Tech. (ETH), Univ. of Basel, Massachusetts Inst. of Tech.; Chemist, Dyestuff Research Dept., CIBA Ltd. 1945-60; Lecturer in Dyestuff Chem., Univ. of Basel 1952-60; Prof. of Textile Chem., Fed. Inst. of Tech. 1960-; Rector 1973-77; Pres. Organic Chem. Div. of IUPAC 1975-77, Pres. IUPAC 1979-; Hon. Ph.D. (Stuttgart); Werner Prize 1959, Ruzicka Award 1960, Lewinstein Award 1964, Conrad Prize 1970. *Publications:* Chemie der Azofarbstoffe 1958 (Russian 1960), Diazo and Azo Chemistry 1961, Leitfaden der Farbstoffchemie 1970, (English 1972, Japanese 1972), Chemie und Hochschule 1978; volumes on aromatic chemistry in International Review of Science 1973, 1976; 200 scientific papers. *Leisure interests:* clarinet, climbing, skiing, sailing, colour studies. *Address:* Technisch-Chemisches Laboratorium, Eidgenössische Technische Hochschule, Universitätstrasse 6, CH-8006, Zürich (Office); Boglerenstrasse 45, CH-8700 Küsnacht, Switzerland (Home). *Telephone:* 01-32-62-11 (Laboratory); 01-910-53-08 (Home).

ZOLLNER, Maxime-Léopold; Benin diplomatist and international civil servant; b. 4 Oct., 1934, Porto-Novo; s. of Philippe Etienne Zollner and Candida de Medeiros; ed. Dahomey (now Benin) and Univ. de Paris and Univ. de Genève; Assistant Dir. for Foreign Affairs, Prime Minister's Cabinet, Porto-Novo 1960; Counsellor, Dahomey Perm. Mission to UN 1960-63; Counsellor of Embassy, Washington 1961-63; Sec.-Gen. Union Africaine et Malgache 1963-64; Minister Plenipotentiary and Deputy Perm. Rep. to UN 1964-67; Amb. Extraordinary and Plenipotentiary to the U.S.A. 1967-70, to Canada 1969-70; Perm. Rep. to UN 1967-70; Chief, Div. of Trusteeship, UN Secretariat 1970-71; Sec.-Gen. Int. Secretariat for Volunteer Service 1971-76; Chair. of the Board, Soc. for Devt. in Africa 1977-. *Leisure interests:* Vice-Pres., World Leisure and Recreation Assn. (New York), tennis, horseback riding, skiing and water skiing. *Address:* Case Postale 857, 1211 Geneva 1, Switzerland.

ZOLOTAS, Xenophon, DR.ECON.; Greek university professor; b. 26 March 1904, Athens; s. of the late Efthymios Zolotas; m. Kallirhoe Ritsos 1958; ed. Univs. of Athens, Leipzig and Paris; Professor of Econs. Univ. of Thessaloniki 1928, of Athens 1931-68; mem. of Supreme Council of Greece 1932, of Greek del. to the Econ. Council of the Entente Balkanique 1934-39; Chair. Board of Dirs., Agricultural Bank of Greece 1936-40; Joint Gov. Bank of Greece (after Liberation) Oct. 1944-45; mem. UNRRA Council 1946; Gov. of Int. Monetary Fund for Greece 1946-67, 1974-, mem. Greek Del. to UN Gen. Ass. 1948-53; Del. to Econ. Comm. for Europe 1949-53; mem. Currency Cttee. 1950, July 1974-; Vice-Chair. ECE 1952; Minister of Co-ordination Co. 1952; Gov. Bank of Greece 1955-67, Nov. 1974-; Minister of Econ. Co-ordination July-Nov. 1974; mem. "Group of Four" for remodelling of OEEC 1960; mem. Acad. of Athens 1952-; Grand Cross of Royal Order of the Phoenix, of the Ordre Nat. du Mérite (France) and others. *Publications:* Griechenland auf dem Wege zur Industrialisierung 1926, Wirtschaftsstruktur und Wirtschaftsbeziehungen Griechenlands 1931, L'étalon-or en théorie et en pratique 1933, La question de l'or et le problème monétaire 1938, La théorie économique traverse-t-elle une crise? 1938, La transformation du capitalisme 1953, Monetary Stability and Economic Development 1958, Economic Development and Technical Education 1960, The Problem of the International Monetary Liquidity 1961, Towards a Reinforced Gold Exchange Standard 1961, Economic Development and Private Enterprise 1962, International Monetary Order, Problems and Policies 1962, The Role of the Banks in a Developing Country 1963, The Multicurrency Standard and the International Monetary Fund 1963, Monetary Equilibrium and Economic Development 1965, Remodelling the International Monetary System 1965, Alternative Systems for International Monetary Reform, A Comparative Appraisal 1965, Current Monetary and Economic Developments in Greece 1966, International Labor Migration and Economic Development 1966, Monetary Planning 1967, The Gold Trap and the Dollar 1968, Speculocracy and the International Monetary System 1969, The International Money Mess 1973, From Anarchy to International Monetary Order 1973, The Energy Problem in Greece 1975, Recession and Reflation in the Greek Economy 1975, Developments and Prospects of the Greek Economy 1975, Guidelines for Industrial Development in Greece 1976, Greece in the European Community 1976, Interna-

tional Monetary Vacillations 1976, International Monetary Issues and Development Policies 1977, Inflation and the Monetary Target in Greece 1978, An International Loan Insurance Scheme 1978, The Positive Contribution of Greece to the European Community 1978, The Dollar Crisis and Other Papers 1979; in Greek: Monetary Stabilization 1929, Economics 1942, Creative Socialism 1944, The Monetary Problem and the Greek Economy 1950, Inflationary Pressures in the Greek Economy 1951, Regional Planning and Economic Development 1961, Human Capital and Economic Development 1969, The Contribution of Exports to Economic Development 1976, Social Welfare and Economic Organization 1976, Consumption, Investment and Monetary Equilibrium 1977. *Address:* Bank of Greece, 21 Panepistimou Street, Athens 133 (Office); 25 Dionissiou Areopagitou Street, Athens 40, Greece (Home). *Telephone:* 363-4647 (Private Office); 323-8096 (Bank).

ZOLOTUKHIN, Grigoriy Sergeyevich; Soviet politician; b. 1911; ed. Agricultural Coll. and CPSU Higher Party School; mem. CPSU 1939-; Exec. posts in Tambov Region 1931-38; Agronomist 1938-39; Young Communist League and Party Official 1939-65; First Sec. Krasnodar Territory Cttee. of CPSU 1966-73; Cand. mem. CPSU Cen. Cttee. 1956-66, mem. 1966-; Deputy to U.S.S.R. Supreme Soviet 1958-; Chair. Comm. for Agric., Soviet of Union; Minister of Agricultural Products Procurement 1973-; various decorations. *Address:* Ministry of Agricultural Products Procurement, Moscow, U.S.S.R.

ZORIN, Valerian Aleksandrovich; Soviet diplomatist; b. 13 Jan. 1902, Novocherkassk, Rostov; ed. High Communist Inst. of Education; important position in Cen. Cttee. of Komsomol 1922-32; post-graduate student High Communist Inst. of Educ. 1933-35; party and pedagogical work 1935-41; Asst. Gen. Sec. of People's Commissariat of Foreign Affairs 1941-42, Head Fourth European Dept. 1943-45; Amb. to Czechoslovakia 1945-47; Deputy Minister of Foreign Affairs 1947-55, 1956-57, concurrently Perm. Rep. of U.S.S.R. to UN Security Council 1952-53; Amb. to Fed. Repub. of Germany 1955-60; Perm. Rep. to UN 1960-62; Cand. mem. Cen. Cttee. CPSU 1956-61, mem. 1961-71; Amb. to France 1965-71; Rep. to Geneva Disarmament Talks 1960, 1964; Order of Lenin (twice), Order of the Red Banner (twice), Badge of Honour, and other decorations. *Address:* Ministry of Foreign Affairs, 32-34 Smolenskaya-Sennaya ploschchad, Moscow, U.S.S.R.

ZORNOW, Gerald Bernard; American business executive; b. 3 March 1916, Pittsford, N.Y.; s. of Theodore A. and Dora (née Sweeney) Zornow; m. 1st Gaylord Baker 1940 (deceased), m. 2nd Bette Dwyer; one d.; ed. Univ. of Rochester; joined Eastman Kodak Co. 1937; Asst. Gen. Sales Man. Rochester, N.Y. 1954-56; Dir. Sales, Apparatus and Optical Div. 1956-58; Vice-Pres. 1958-63; Dir. 1963-; Vice-Pres.(Marketing) 1963-69; Exec. Vice-Pres. 1969-70; Pres. and Chair. Exec. Cttee. 1970-72, Chair. of the Board 1972-76, Dir. 1976-; Dir. Marine Midland Bank Inc., Kodak Ltd., TRW Inc.; Dir. Gen. Signal Corpn. *Address:* c/o Eastman Kodak Co., 343 State Street, Rochester, N.Y. 14650, U.S.A.

ZOUNGRANA, H.E. Cardinal Paul; Upper Voltan ecclesiastic; b. 3 Sept. 1917, Ouagadougou; ed. l'Institut Catholique de Paris, and Université Pontificale Grégorienne; ordained priest 1942; mem. Missionary Soc. of Africa; Archbishop of Ouagadougou 1960-; cr. Cardinal 1965; Pres. World Catholic Fed. for Biblical Apostolate (WCFBA). *Address:* Archevêché, B.P. 1472, Ouagadougou, Upper Volta.

ŽOUREK, Jaroslav, LL.D., C.SC.; Czechoslovak international jurist; b. 29 March 1908, Přílepy, Moraisa; s. of Innocenc Žourek and Francisca Solařová; m. 2nd Marie Hrubá 1950; one s. two d. (from 1st marriage); ed. Universita Karlova, Prague; Former Asst., Seminary of Int. Law, Charles Univ., Prague; Legal Officer, Ministry of Foreign Affairs 1937; Chief Secretariat-Gen. 1946-48; Scientific and Teaching Work, Law Faculty of Charles Univ. 1945-48, Assoc. Prof. 1948-69; Del . of Czechoslovakia at Conf. of Law of the Sea, Geneva 1958; mem. UN Int. Law Comm. 1948-61, Pres. 1957-58; leading Research Assoc. in Int. Law, Czechoslovak Acad. of Sciences 1954-69; Judge *ad hoc*, Int. Court of Justice, The Hague 1959-60; UN expert at Conf. on Consular Relations 1963; Special Adviser to Czech del. at Conf. on Law of Treaties, Vienna 1968; Univ. of Geneva 1968-69; Visiting Prof. Queens Univ., Kingston, Canada 1969-70; left Czechoslovakia 1968; mem. Inst. of Int. Law; Prof. of Int. Law and Int. Relations, Univ. of Nancy 1972-77; Dir. of Studies 1972-; mem. Presiding Council Int. Court of Arbitration for Maritime and Inland Navigation, Gdynia, Pres. 1964, 1967; Past Pres. and now Vice-Pres. Int. Law Asscn., London; Yugoslav award for outstanding services to the country (Zaslugy Za narod). *Publications:* Définition de l'agression 1957, Statut et Fonctions des consuls 1962; numerous studies on questions of international law. *Leisure interests:* touring in mountains, photography. *Address:* 49 avenue du Bois de la Chapelle, CH-1213 Geneva, Switzerland. *Telephone:* (022) 92-73-16.

ZUCKERMAN, Baron (Life Peer), cr. 1971, of Burnham Thorpe in the County of Norfolk; **Solly Zuckerman,** O.M., K.C.B., M.A., M.D., D.SC., LL.D., M.R.C.S., F.R.C.P., F.R.S.; British anatomist; b. 1904, Cape Town; s. of late Moses Zuckerman; m. Lady Joan Rufus Isaacs; one s. one d.; ed. South African Coll. School, Cape Town Univ., and Univ. Coll. Hospital London; Demonstrator of Anatomy Cape Town Univ. 1923-25; Union Research Scholar 1925; Research Anatomist to London Zoological Soc. and Demonstrator of Anatomy, Univ. Coll., London 1928-32; Research Assoc. and Rockefeller Research Fellow, Yale Univ. 1933-34; William Julius Mickle Fellow, London Univ. 1935; Beit Memorial Research Fellow 1934-37; Univ. Demonstrator Human Anatomy Dept. Oxford 1934-45; Hunterian Prof. Royal Coll. of Surgeons 1937; Sands Cox Prof. of Anatomy, Birmingham Univ. 1943-68; Prof. Emer. Univs. of E. Anglia, Birmingham; Scientific Adviser British Mil. Orgs. 1939-46; Group Capt. (Hon.) R.A.F. 1943-46; Deputy Chair. Advisory Council on Scientific Policy 1948-64; Chair. Nat. Resources (Technical) Cttee. 1951-64; mem. Agricultural Research Council 1949-59; Hon. Sec. Zoological Soc., London 1955-77; Chair. Cen. Advisory Cttee. for Science and Technology 1965-70; Trustee, British Museum (Natural History) 1967-77; Fellow, Univ. Coll., London; Fellow Commoner, Christ's Coll., Cambridge; Pres. Parl. and Scientific Cttee. 1973-76; Pres. Asscn. Learned and Professional Society Publishers 1973-77, Fauna Preservation Soc. 1974-, Zoological Soc., London 1977; Gregynog Lecturer, Univ. of Wales 1956; Mason Lecturer, Univ. of Birmingham 1957, Lees Knowles Lecturer, Cambridge Univ. 1965, Romanes Lecturer, Oxford Univ. 1975; Rhodes Lecturer, S. Africa 1975; Chief Scientific Adviser to the Govt. 1964-71; Chief Scientific Adviser to Sec. of State for Defence 1960-66; Hon. Fellow, Royal Coll. of Surgeons, Pharmaceutical Soc. of Great Britain 1975; Hon. mem. American Acad. of Arts and Sciences; Foreign mem. American Philosophical Soc. *Publications:* The Social Life of Monkeys and Apes 1932, Functional Affinities of Man, Monkeys and Apes 1933, A New System of Anatomy 1961, Scientists and War 1966, Beyond the Ivory Tower 1970, The Ovary (editor) 1962, 1977, From Apes to Warlords 1904-46 (autobiog. Vol. I) 1978. *Address:* University of East Anglia, Norwich NR4 7TJ. *Telephone:* 0603 56161.

ZUKERMAN, Pinchas; Israeli violinst; b. 16 July 1948, Israel; ed. Israel Conservatory, Acad. of Music, Tel-Aviv, Juilliard School of Music, New York; studied with Ivan Galamian; début in New York with New York Philharmonic 1969, in U.K. at Brighton Festival 1969; concert and recital performances throughout U.S.A. and Europe; directs, tours and plays with English Chamber Orchestra; has performed at Spoleto, Pablo Casals and Edinburgh Festivals; Dir. South Bank Summer Music 1978-; Leventritt Award 1967. *Address:* c/o Harold Holt Ltd., 134 Wigmore Street, London, W1H 0DJ, England.

ŻUKROWSKI, Wojciech; Polish writer; b. 14 April 1916, Cracow; s. of Zygmunt Żukrowski and Jadwiga Wojtowicz; m. Maria Woltersdorf 1945; one d.; ed. Wrocław Univ. and Jagiellonian Univ., Cracow; War Corresp., North Viet-Nam 1954; Counsellor, Polish Embassy, New Delhi 1956-58; Deputy to Seym 1972- Co-Editor Widnokręgi (monthly) and Nowe Książki; mem. All-Poland Peace Cttee., Chief Council of Union of Fighters for Freedom and Democracy (Z BoWiD); Chair. Soc. for Polish-Spanish Friendship 1978-; State Prize 1953, 1978 (1st Class), Chevalier's and Officer's Cross Polonia Restituta 1953, 1954, Award of Minister of Nat. Defence 1961, Order of Banner of Labour (1st and 2nd Class), Prize of Minister of Culture and Art 1963, 1965, 1969, Pietrzak Prize 1967, Order of Builders of People's Poland 1976, Prize of Prime Minister for literary production for children and youth 1977, Meritous Activist of Culture 1978, and others; mem. Polish Union of Writers and PEN Club. *Publications:* Short stories: Z kraju milczenia (From the Land of Silence), Piórkiem flaminga (With a Flamingo's Quill), Córeczka (Little Daughter), Okruchy weselnego tortu (Crumbs from the Wedding Cake), Ręka ojca (Father's Hand) 1976; Novels: Dni klęski (Days of Defeat), Bathed in Fire (Ministry of Defence Prize 1961), Kamienne Tablice (The Stone Tables) 1966, The Lucky Devil, Plaża nad Styksem (Styx Beach) 1976, Zapach psiej sierści (in preparation); Travel: Dom bez ścian (House without Walls), Wanderings with my Guru: India, In the Kingdom of a Million Elephants: Laos, Nieśmiały narzeczony (Chinese legends); Essays: W głębi zwierciadła (Inside Mirror) 1973, Karambole (Collisions) 1973; Films: Bathed in Fire, Direction Berlin, The Last Days, Lotna, Potop. *Address:* 00-324 Warsaw, Karowa 14/16 m 22, Poland. *Telephone:* 26 16 18.

ZULU, Alexander Grey; Zambian politician; b. 3 Sept. 1924, Chipata, Eastern Province; s. of Agrippa and Tionenji Zulu; m. 1952; four s. four d.; ed. Mafuta Lower Primary School and Munali Secondary School; Water Devt. Asst., Northern Rhodesia 1950-53; Bookkeeper/Man. Kabwe Co-operative Soc. 1953-62; Parl. Sec., Northern Rhodesia 1963; Minister of Commerce and Industry 1964, of Transport and Works 1964, of Mines and Co-operatives 1965-67, of Home Affairs 1967-70, of Defence 1970-73, of Defence and Security 1979-; Sec.-Gen. United Nat. Independence Party (UNIP) 1973-. *Address:* United National Independence Party, Freedom House, P.O. Box 302, Lusaka, Zambia.

ZULU, Rt. Rev. Alphaeus Hamilton, B.A., L.TH.; South African ecclesiastic; b. 29 June 1905, Nqutu; s. of Mfungelwa Johannes and Miriam Zulu; m. Miriam A. Magwaza 1929; one s. six d.; ed. Univ. of South Africa. Principal, Umlazi Mission School 1924-35; Asst. (Anglican) Priest, St. Faith's Church, Durban 1940-52, Rector 1953-60; Bishop Suffragan, Diocese of St. John's, Transkei 1960-66; Bishop of Zululand 1966-75; Joint Pres. World Council of Churches 1968-75; mem. Kwazulu Legis. Assembly 1975-; First Nat. Chair., Inkatha (Nat. Cultural Liberation Movement); PH.D. h.c. (Univ. of Natal) 1974, D.D. h.c. (Rhodes Univ.) 1977. *Address:* P.O. Box 177, Edendale, Natal 4505, South Africa.

ZUMWALT, Admiral Elmo Russell, Jr., B.SC.; American naval officer; b. 29 Nov. 1920, San Francisco, Calif.; s. of Dr. Elmo Russell Zumwalt and Dr. Frances Z. Frank; m. Mouza Coutelais-du-Roche 1945; two s. two d.; ed. U.S. Naval Acad., Naval War Coll., Nat. War Coll.; commissioned Ensign, U.S. Navy 1942, advanced through ranks to Adm. 1970; service on USS Phelps 1942-43, USS Robinson 1943-45, USS Saufley 1945-46, USS Zellars 1946-48; Asst. Prof. Naval Science 1948-50; Commdg. Officer USS Tills 1950-51; Navigator USS Wisconsin 1951-52; Head Shore and Overseas Bases Section, Naval Personnel, Washington 1953-55; Commdg. Officer USS Arnold J. Isbell 1955-57; LT Detailer, Naval Personnel 1957; Special Asst. for Naval Personnel, Officer of Asst. Sec. of the Navy, Washington 1957-58, Exec. Asst., Senior Aide 1958-59; Commdg. Officer USS Dewey 1959-61; Desk Officer for France, Spain and Portugal, Office of Asst. Sec. of Defense for Int. Security Affairs 1962-63; Dir. Arms Control and Contingency Planning for Cuba 1963; Exec. Asst., Senior Aide, Sec. of Navy 1963-65; Commdg. Officer Cruiser-Destroyer Flotilla Seven 1965-66; Dir. Chief Naval Operations Systems Analysis Group, Washington 1966-68; Commdr. U.S. Naval Forces, Vietnam, Chief, Naval Advisory Group Vietnam 1968-70; Chief of Naval Operations 1970-74; Distinguished Service Medal with Gold Star, Legion of Merit with Gold Star, Bronze Star Medal with Combat V, Navy Commendation Medal with Combat V, and many other national and foreign decorations; Hon. LL.D. (Villanova, Univ. of N.C., Nat Univ.), Hon. D. Hum. Litt. (U.S. Int. Univ.), Hon. Dr. Public Service (Central Mich. Univ.). *Publications:* On Watch 1976, Syndicated columns. *Leisure interests:* jogging, tennis. *Address:* 1400 Wilson Blvd., Arlington, Va. 22209, U.S.A. *Telephone:* (703) 527-4200.

ZURAYK, Constantine Kayser, M.A., PH.D; Syrian educationist; b. 18 April 1909; s. of Kaysar Zurayk and Afifeh Khoury; m. Najla Cortas 1940; four d.; ed. American Univ. of Beirut, Univ. of Chicago and Princeton Univ.; Asst. Prof. of History, American Univ. of Beirut 1930-42, Assoc. Prof. 1942-45; First Counsellor, Syrian Legation, Washington 1945-46; Syrian Minister to U.S.A. 1946-47; Vice-Pres. and Prof. of History, American Univ. of Beirut 1947-49; Rector, Syrian Univ., Damascus 1949-52; Vice-Pres. American Univ. of Beirut 1952-54, Acting Pres. 1954-57, Distinguished Prof. of History 1956-; del. UN Gen. Assembly and Alt. Rep. of Syria on Security Council 1946-47; Pres. Inst. Asscn. of Univs. 1965-70, Hon. Pres. 1970-; Chair. Board of Trustees, Inst. for Palestine Studies 1965-; mem. Iraq Acad., Arab Acad., Damascus, American Historical Asscn.; Order of Merit (distinguished class) (Syria); Educ. Medal (First Class), Commdr. Order of Cedar (Lebanon). *Publications:* Al-Wa'y al Qawmi (National Consciousness), Ma'na al-Nakbah (The Meaning of the Disaster), Ayyu Ghadin (Whither Tomorrow?), Nahnu wa-l-Tarikh (Facing History), Hadha al-' Asr al-Mutafajjir (This Explosive Age), Fi Ma'rakat al-Hadarah (In the Battle for Culture), Ma'na al-Nakbah Mujaddahan (The Meaning of the Disaster Again); Editor Isma'il Beg Chol's Al-Yazidiyyah qadiman wa hadithan (Yazidis past and present), Ibn al-Furat's History Vols. VII-IX (with Najla Izzedin); Editor and Trans. Miskawayh's Tahdhib al-Akhlaq (The Refinement of Character). *Address:* American University of Beirut, Beirut, Lebanon. *Telephone:* Beirut 343174.

ZWANZIG, Robert Walter, M.S., PH.D.; American professor of chemical physics; b. 9 April 1928, Brooklyn, N.Y.; s. of Walter Zwanzig and Bertha Weil Zwanzig; m. Francis Ryder Zwanzig 1953; one s. one d.; ed. Polytechnic Inst. of Brooklyn, Univ. of Southern Calif. and Calif. Inst. of Technology.; Research Fellow, Yale Univ. 1951-54; Asst. Prof. Chem., Johns Hopkins Univ. 1954-58; Physical Chemist Nat. Bureau of Standards, Washington, D.C. 1958-66; Research Prof., Inst. for Physical Science and Tech., Univ. of Md. 1966-; Fellow, American Acad. of Arts and Sciences; mem. of Nat. Acad. of Sciences; Silver Medal, U.S. Dept. of Commerce; Peter Debye Award in Physical Chem. (A.C.S.) 1976. *Publications:* about 80 articles in scientific periodicals. *Address:* Institute for Physical Science and Technology, Univ. of Maryland, College Park, Md. 20742 (Office) 5314 Sangamore Road, Bethesda, Md. 20016, U.S.A. (Home). *Telephone:* 301-454-6078 (Office).

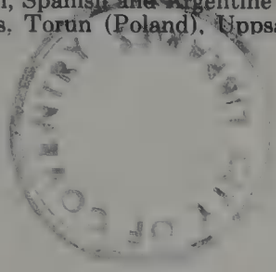
ZWEIGERT, Konrad Erdmann, DR.JUR.; German lawyer; b. 22 Jan. 1911, Posen; s. of Erich Zweigert and E. Nagel; m. Irmgard Koenigs 1946; nine c.; ed. Univs. of Grenoble, London, Barcelona, Berlin, Göttingen; Research Assoc. Kaiser-Wilhelm later Max Planck Inst. of Private Int. Law and Comparative Law 1937; Prof. of Law, Univ. of Tübingen 1948; Justice, Fed. Constitutional Court, Karlsruhe 1951-56; Prof. of Law, Univ. of Hamburg 1956; Dir. Max Planck Inst. of Private Int. and Foreign Law 1963-79; mem. of Board Int. Cttee. on Comparative Law 1955; Pres. Int. Asscn. of Legal Science 1964; Vice-Pres. Max-Planck-Gesellschaft zur Förderung der Wissenschaften 1967-78; Dr. h.c. (Uppsala 1974, Paris 1975). *Publications:* numerous books and articles on Comparative Law including: Die Einwirkung des Krieges auf Verträge 1941, Einführung in die Rechtsvergleichung 2 vols. 1969-71; Gen. Editor International Encyclopedia of Comparative Law 1971. *Address:* 2 Hamburg 13, Mittelweg 187, Federal Republic of Germany. *Telephone:* 040-41-27-1.

ZWICK, Charles John, B.S., PH.D.; American economist and banker; b. 17 July 1926, Plantsville; s. of Louis C. Zwick and Mabel (née Rich) Zwick; m. Joan Cameron 1951; one s. one d.; ed. Univ. of Connecticut and Harvard Univ.; Instructor, Univ. of Conn. 1951; Harvard Univ. 1954-56; Head, Logistics Dept. the RAND Corpn. 1956-63, mem. Research Council 1963-65, now Trustee; Asst. Dir. U.S. Bureau of the Budget 1965-68, Dir. Jan. 1968-Jan. 1969; Pres. Southeast Banking Corpn., Miami July 1969-; Dir. Johns-Manville Corpn. and numerous other companies; chair. President's Comm. on Mil. Compensation; Trustee, Carnegie Endowment for Int. Peace; mem. Reserve City Bankers Asscn., The Conference Board, Legislative Cttee. Asscn. of Bank Holding Cos., Council of the Int. Exec. Service Corps, Econ. Soc. of S. Fla., American Historic and Cultural Soc., Fla. Council of 100. *Address:* P.O. Box 2500, Miami, Florida 33101; 4210 Santa Maria Street, Coral Gables, Fla. 33146 U.S.A.(Home). *Telephone:* 305-577-4015 (Office); 305-666-9208 (Home).

ZWORYKIN, Vladimir Kosma, PH.D.; American television specialist; b. 30 July 1889, Mourom, Russia; ed. Petrograd (Leningrad) Inst. of Technology, Collège de France, Pittsburgh Univ.; went to U.S.A. 1919; research with Westinghouse Electric and Mfg. Co. 1920-29; with Radio Corpn. of America 1929-, Dir. of Electronic Research with RCA Mfg. Co. 1929-42, Assoc. Research Dir. RCA Laboratories 1942-45, Dir. Electronic Research 1946-54, Vice-Pres. and Technical Consultant 1947-54 (retd.), now Hon. Vice-Pres. RCA; Technical Consultant RCA Laboratories; visiting Prof. Center for Theoretical Studies and Inst. for Molecular and Cellular Evolution, Univ. of Miami; Dir. Medical Electronics Centre, Rockefeller Univ.; Founder-Pres. Int. Fed. for Medical Electronics and Biological Eng.; Fellow Inst. of Radio Engineers, American Inst. of Electrical Engineering, American Physical Soc., American Asscn. for Advancement of Science; mem. Electron Microscope Soc. of America, Nat. Acad. of Sciences, Nat. Acad. of Engineering, American Acad. of Arts and Sciences, American Philosophical Soc.; Hon. D.Sc. (Rutgers Univ. 1972), hon. mem. Soc. Motion Picture and TV Engineers, British Inst. of Radio Engineers; Officier de l'Acad. de France; 27 awards including Faraday Medal (British) 1965, Presidential Medal of Science (U.S.A.) 1966, Nat. Acad. of Engineering Founders' Medal 1968, elected to U.S. Nat. Inventors Hall of Fame 1977. *Publications:* Co-author: Photocells and their Applications 1932, Television 1940, Electron Optics and Electron Microscope 1945, Photoelectricity and Its Application 1949, Television 1954, Television in Science and Industry 1958. *Address:* RCA Laboratories 103 Battle Road, Circle, Princeton, N.J. 08540; RCA Corporation, Princeton, N.J., U.S.A. (Home). *Telephone:* (609) 452-2700.

ZYGMUND, Antoni, PH.D.; American university professor; b. 26 Dec. 1900, Warsaw, Poland; s. of Wincenty and Antonina (Per-

kowska) Zygmund; m. Irena Parnowska 1925; one s.; ed. Univ. of Warsaw; Instructor, Polytechnical School, Warsaw 1922-29; Docent, Univ. of Warsaw 1926-30; Prof. Univ. of Wilno, Poland 1930-39; Prof. Mount Holyoke Coll., South Hadley, Mass. 1940-45; Prof., Univ. of Pa. 1945-47; Prof. Univ. of Chicago 1947-; mem. Polish, Italian, American, Spanish and Argentine Acads.; Dr. h.c. (Washington, St. Louis, Torun (Poland), Uppsala, Paris-Sud); Distinguished Service Prof. Univ. of Chicago; hon. mem. London Math. Soc. *Publications:* Trigonometric Series 1935, 1959, Analytic Functions (with S. Saks) 1938, 1965, Measure and Integral (with R. Wheeden) 1977. *Address:* Department of Mathematics, University of Chicago, Chicago 37 (Office); 5420 East View Park, Chicago, Ill. 60615 U.S.A. (Home). *Telephone:* 312-753-8067 (Office); 303-643-6913 (Home).

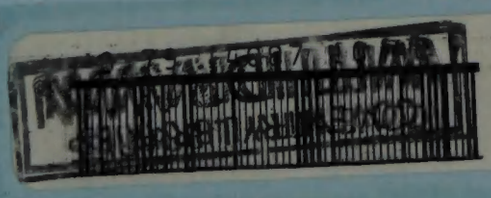


079-14057-10-4E

OBITUARY

A list of persons whose deaths have been noted since the preparation of the previous edition appears on page xvii at the front of the book.

1980
REFERENCE USE ONLY
COVENTRY LIBRARIES
WITHDRAWN
CITY OF COVENTRY LIBRARIES
Libraries and Information Division
REFERENCE USE ONLY



Press comments on Previous Editions

"la meilleure source d'information—des informations brèves, mais sûres—sur les grands de ce monde."

Le Monde Diplomatique, Paris

"... the invaluable international biographic reference source for essential facts."

Business International, New York

"All the famous men and women of our time, all the new names that daily appear on the international scene from every walk of life, sketched in more than 15,000 fascinating, potted biographies."

The Director, London

"... one of the most useful reference books for anyone needing quick and authoritative information on the leading personalities of the day."

The Economist, London

"The thorough and accurate compilations and revisions of the information that this volume provides makes it indispensable for all libraries."

Reference Book Review

"... the information is clearly set out and remarkably up to date."

International Affairs, London

The Europa Year Book 1979: A World Survey

This two volume world reference book contains an unrivalled wealth of detailed factual information. All the principal international organizations are listed and described in detail. Every country in the world is covered—by general and statistical surveys, details of the constitutions, government, political parties, legal systems, religions, the press, publishers, radio and television, finance, trade and industry, transport and tourism, atomic energy and universities.

20th edition *3,600 pages*

The World of Learning 1978-79

A comprehensive, up-to-date guide to educational, scientific, and cultural organizations all over the world. Universities, colleges, libraries, research institutes, museums, art galleries, and learned societies are listed together with their addresses and an outline of their functions. The names of their principal officers and the titles of their periodical publications are included. It lists the professors at the world's leading universities and the subjects they teach. An important section of the book is devoted to well over four hundred international scientific, cultural, and educational organizations.

29th edition *2,038 pages*

World Dictionary of Awards and Prizes

A dictionary of awards and prizes of national and international standing in countries throughout the world. Each entry gives the name of the award, the name and address of the awarding body, the purpose of the award, the form it takes, how often and when it is made, when and by whom established, details of eligibility, a list of distinguished recipients and the year in which they received the award.

386 pages

EUROPA PUBLICATIONS LIMITED
18 Bedford Square, London, WC1B 3JN, England

Printed in England

